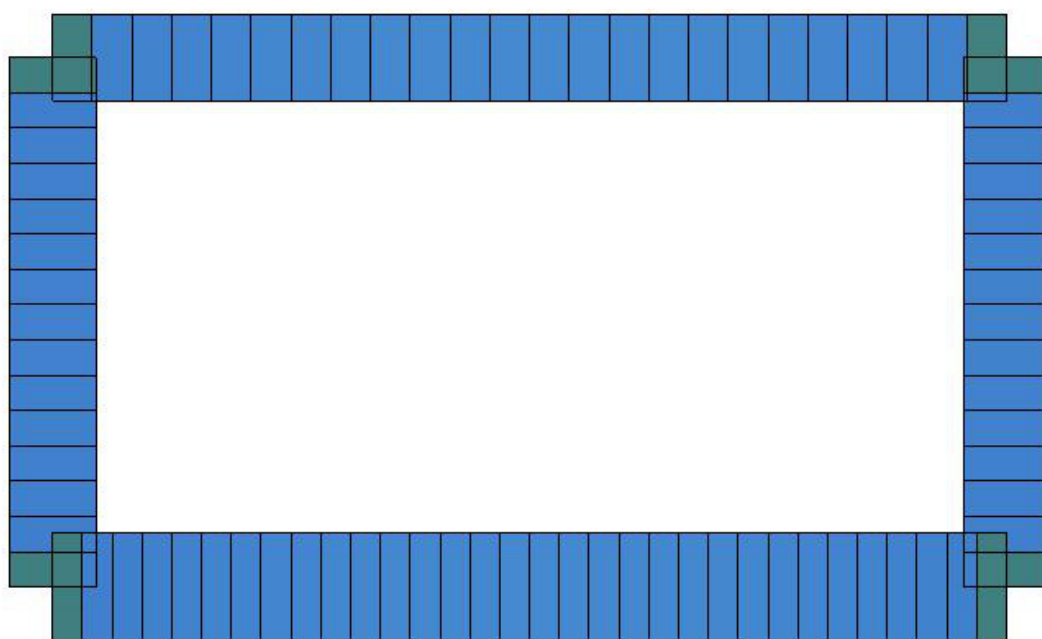


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

Table of Contents

ΑΓΩΓΟΣ

Introduction	1
ΑΓΩΓΟΣ Α1	1

• Introduction	9
----------------------	---

ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	10
Mat 1 C 25/30 (EN 1992)	10
Mat 2 B 500 C (EN 1992)	10
Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Static properties of cross section	11
Cross section No. 2 - Τοίχοι	11
Cross section No. 2 - Τοίχοι	11
Static properties of cross section	11
Cross section No. 3 - Πλάκα Οροφής	11
Cross section No. 3 - Πλάκα Οροφής	11
Static properties of cross section	12
Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12

• Introduction	13
----------------------	----

ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups	14
Summary of beam elements	14
Groups	14
Cross sections	14

RIGID ELEMENTS

ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ

Beam Elements , Cross sections	15
Beam Elements , Coordinate system Number of group	16
Beam Elements , Number of element Beam Elements , Numbers of cross section	17
X-coordinate Y-coordinate	18
Spring constant Transverse spring constant	19

• Introduction	20
----------------------	----

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 1 ΙΔΙΟ ΒΑΡΟΣ (G)	21
Load Case 2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	21
Load Case 3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	21
Load Case 4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	21
Load Case 5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	21
Load Case 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	21
Load Case 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	21
Load Case 11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=1.1) (R1)	21
Load Case 12 ΚΙΝΗΤΑ (Hεπ.=1.1) (Q1)	21
Load Case 13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (EA1)	21

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 14 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=1.1) (ES1)	21
Load Case 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Ηεπ.=2.1) (R2)	21
Load Case 22 ΚΙΝΗΤΑ (Ηεπ.=2.1) (Q2)	21
Load Case 23 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (EA2)	21
Load Case 24 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (ES2)	21

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

All loads LC: 2 All loads LC: 3	22
All loads LC: 4 All loads LC: 5	23
All loads LC: 6 All loads LC: 7	24
All loads LC: 11 All loads LC: 12	25
All loads LC: 13 All loads LC: 14	26
All loads LC: 21 All loads LC: 22	27
All loads LC: 23 All loads LC: 24	28

. Introduction	29
. Introduction	30

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 100 1.35G+C	31
Load Case 101 1.35(G+R1)+C	31
Load Case 102 G+1.35R1+C	31
Load Case 103 1.35G+R1+C	31
Load Case 104 1.35(G+R1)+C+1.2W	31
Load Case 105 G+1.35R1+C+1.2W	31
Load Case 106 1.35G+R1+C+1.2W	31
Load Case 107 1.35(G+R1)+C+1.5Q1	31
Load Case 108 G+1.35R1+C+1.5Q1	31
Load Case 109 1.35G+R1+C+1.5Q1	32
Load Case 110 1.35(G+R1)+C+1.2W+1.5Q1	32
Load Case 111 G+1.35R1+C+1.2W+1.5Q1	32
Load Case 112 1.35G+R1+C+1.2W+1.5Q1	32
Load Case 113 1.35(G+R1)+C+1.5Q1+0.75T	32
Load Case 114 G+1.35R1+C+1.5Q1+0.75T	32
Load Case 115 1.35G+R1+C+1.5Q1+0.75T	32
Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	32
Load Case 117 G+1.35R1+C+1.2W+1.5Q1+0.75T	33
Load Case 118 1.35G+R1+C+1.2W+1.5Q1+0.75T	33
Load Case 119 1.35(G+R1)+C+1.5Q1+0.75T	33
Load Case 120 G+1.35R1+C+1.5Q1+0.75T	33
Load Case 121 1.35G+R1+C+1.5Q1+0.75T	33
Load Case 122 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	33
Load Case 123 G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 124 1.35G+R1+C+1.2W+1.5Q1+0.75T	34
Load Case 125 1.35(G+R1)+C+1.5Q1+0.75T	34
Load Case 126 G+1.35R1+C+1.5Q1+0.75T	34
Load Case 127 1.35G+R1+C+1.5Q1+0.75T	34
Load Case 128 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	34
Load Case 129 G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 130 1.35G+R1+C+1.2W+1.5Q1+0.75T	35
Load Case 131 1.35(G+R1)+C+1.5Q1+0.75T	35
Load Case 132 G+1.35R1+C+1.5Q1+0.75T	35
Load Case 133 1.35G+R1+C+1.5Q1+0.75T	35
Load Case 134 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	35
Load Case 135 G+1.35R1+C+1.2W+1.5Q1+0.75T	35
Load Case 136 1.35G+R1+C+1.2W+1.5Q1+0.75T	35

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 138	G+1.35R1+C+0.9Q1+1.5T	36
Load Case 139	1.35G+R1+C+0.9Q1+1.5T	36
Load Case 140	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	36
Load Case 141	G+1.35R1+C+1.2W+0.9Q1+1.5T	36
Load Case 142	1.35G+R1+C+1.2W+0.9Q1+1.5T	36
Load Case 143	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 144	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 145	1.35G+R1+C+0.9Q1+1.5T	37
Load Case 146	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	37
Load Case 147	G+1.35R1+C+1.2W+0.9Q1+1.5T	37
Load Case 148	1.35G+R1+C+1.2W+0.9Q1+1.5T	37
Load Case 149	1.35(G+R1)+C+0.9Q1+1.5T	37
Load Case 150	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 151	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	38
Load Case 153	G+1.35R1+C+1.2W+0.9Q1+1.5T	38
Load Case 154	1.35G+R1+C+1.2W+0.9Q1+1.5T	38
Load Case 155	1.35(G+R1)+C+0.9Q1+1.5T	38
Load Case 156	G+1.35R1+C+0.9Q1+1.5T	38
Load Case 157	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 158	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	39
Load Case 159	G+1.35R1+C+1.2W+0.9Q1+1.5T	39
Load Case 160	1.35G+R1+C+1.2W+0.9Q1+1.5T	39
Load Case 161	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 162	G+1.35R1+C+1.2W+1.5T	39
Load Case 163	1.35G+R1+C+1.2W+1.5T	39
Load Case 164	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 165	G+1.35R1+C+1.2W+1.5T	40
Load Case 166	1.35G+R1+C+1.2W+1.5T	40
Load Case 167	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 168	G+1.35R1+C+1.2W+1.5T	40
Load Case 169	1.35G+R1+C+1.2W+1.5T	40
Load Case 170	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 171	G+1.35R1+C+1.2W+1.5T	40
Load Case 172	1.35G+R1+C+1.2W+1.5T	40
Load Case 201	1.35(G+R2)+C	41
Load Case 202	G+1.35R2+C	41
Load Case 203	1.35G+R2+C	41
Load Case 204	1.35(G+R2)+C+1.2W	41
Load Case 205	G+1.35R2+C+1.2W	41
Load Case 206	1.35G+R2+C+1.2W	41
Load Case 207	1.35(G+R2)+C+1.5Q2	41
Load Case 208	G+1.35R2+C+1.5Q2	41
Load Case 209	1.35G+R2+C+1.5Q2	42
Load Case 210	1.35(G+R2)+C+1.2W+1.5Q2	42
Load Case 211	G+1.35R2+C+1.2W+1.5Q2	42
Load Case 212	1.35G+R2+C+1.2W+1.5Q2	42
Load Case 213	1.35(G+R2)+C+1.5Q2+0.75T	42
Load Case 214	G+1.35R2+C+1.5Q2+0.75T	42
Load Case 215	1.35G+R2+C+1.5Q2+0.75T	42
Load Case 216	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	42
Load Case 217	G+1.35R2+C+1.2W+1.5Q2+0.75T	43
Load Case 218	1.35G+R2+C+1.2W+1.5Q2+0.75T	43
Load Case 219	1.35(G+R2)+C+1.5Q2+0.75T	43
Load Case 220	G+1.35R2+C+1.5Q2+0.75T	43
Load Case 221	1.35G+R2+C+1.5Q2+0.75T	43
Load Case 222	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	43
Load Case 223	G+1.35R2+C+1.2W+1.5Q2+0.75T	44

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 224	1.35G+R2+C+1.2W+1.5Q2+0.75T	44
Load Case 225	1.35(G+R2)+C+1.5Q2+0.75T	44
Load Case 226	G+1.35R2+C+1.5Q2+0.75T	44
Load Case 227	1.35G+R2+C+1.5Q2+0.75T	44
Load Case 228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	44
Load Case 229	G+1.35R2+C+1.2W+1.5Q2+0.75T	44
Load Case 230	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 231	1.35(G+R2)+C+1.5Q2+0.75T	45
Load Case 232	G+1.35R2+C+1.5Q2+0.75T	45
Load Case 233	1.35G+R2+C+1.5Q2+0.75T	45
Load Case 234	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	45
Load Case 235	G+1.35R2+C+1.2W+1.5Q2+0.75T	45
Load Case 236	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 237	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 238	G+1.35R2+C+0.9Q2+1.5T	46
Load Case 239	1.35G+R2+C+0.9Q2+1.5T	46
Load Case 240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	46
Load Case 241	G+1.35R2+C+1.2W+0.9Q2+1.5T	46
Load Case 242	1.35G+R2+C+1.2W+0.9Q2+1.5T	46
Load Case 243	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 244	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 245	1.35G+R2+C+0.9Q2+1.5T	47
Load Case 246	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	47
Load Case 247	G+1.35R2+C+1.2W+0.9Q2+1.5T	47
Load Case 248	1.35G+R2+C+1.2W+0.9Q2+1.5T	47
Load Case 249	1.35(G+R2)+C+0.9Q2+1.5T	47
Load Case 250	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 251	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	48
Load Case 253	G+1.35R2+C+1.2W+0.9Q2+1.5T	48
Load Case 254	1.35G+R2+C+1.2W+0.9Q2+1.5T	48
Load Case 255	1.35(G+R2)+C+0.9Q2+1.5T	48
Load Case 256	G+1.35R2+C+0.9Q2+1.5T	48
Load Case 257	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	49
Load Case 259	G+1.35R2+C+1.2W+0.9Q2+1.5T	49
Load Case 260	1.35G+R2+C+1.2W+0.9Q2+1.5T	49
Load Case 261	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 262	G+1.35R2+C+1.2W+1.5T	49
Load Case 263	1.35G+R2+C+1.2W+1.5T	49
Load Case 264	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 265	G+1.35R2+C+1.2W+1.5T	50
Load Case 266	1.35G+R2+C+1.2W+1.5T	50
Load Case 267	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 268	G+1.35R2+C+1.2W+1.5T	50
Load Case 269	1.35G+R2+C+1.2W+1.5T	50
Load Case 270	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 271	G+1.35R2+C+1.2W+1.5T	50
Load Case 272	1.35G+R2+C+1.2W+1.5T	50

Introduction	52
--------------	----

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311	G+C+R1+0.2(W+Q1)+EA1	53
Load Case 312	G+C+R1+0.2(W+Q1)-EA1	53
Load Case 313	G+C+R1+0.2(W+Q1)+ES1	53
Load Case 321	G+C+R2+0.2(W+Q2)+EA2	53
Load Case 322	G+C+R2+0.2(W+Q2)-EA2	53

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 323 G+C+R2+0.2(W+Q2)+ES2	53
--	----

Introduction	54
--------------------	----

ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C	55
Load Case 411 G+C+R1	55
Load Case 412 G+C+R1+W	55
Load Case 413 G+C+R1+Q1	55
Load Case 414 G+C+R1+W+Q1	55
Load Case 415 G+C+R1+T	55
Load Case 416 G+C+R1+T	55
Load Case 417 G+C+R1+T	55
Load Case 418 G+C+R1+T	55
Load Case 421 G+C+R2	56
Load Case 422 G+C+R2+W	56
Load Case 423 G+C+R2+Q2	56
Load Case 424 G+C+R2+W+Q2	56
Load Case 425 G+C+R2+T	56
Load Case 426 G+C+R2+T	56
Load Case 427 G+C+R2+T	56
Load Case 428 G+C+R2+T	56

Introduction	57
--------------------	----

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Introduction	58
Conclusion	58

Introduction	62
--------------------	----

ΑΠΟΤΕΛΕΣΜΑΤΑ

Spring force LC: 124 Nodal displacement vector LC: 124	63
Beam Elements , Normal force Nx LC: 124 Beam Elements , Shear force Vz LC: 124 Beam Elements ,	64
Spring force LC: 140 Nodal displacement vector LC: 140	65
Beam Elements , Normal force Nx LC: 140 Beam Elements , Shear force Vz LC: 140 Beam Elements ,	66
Spring force LC: 150 Nodal displacement vector LC: 150	67
Beam Elements , Normal force Nx LC: 150 Beam Elements , Shear force Vz LC: 150 Beam Elements ,	68
Spring force LC: 201 Nodal displacement vector LC: 201	69
Beam Elements , Normal force Nx LC: 201 Beam Elements , Shear force Vz LC: 201 Beam Elements ,	70
Spring force LC: 268 Nodal displacement vector LC: 268	71
Beam Elements , Normal force Nx LC: 268 Beam Elements , Shear force Vz LC: 268 Beam Elements ,	72
Spring force LC: 311 Nodal displacement vector LC: 311	73
Beam Elements , Normal force Nx LC: 311 Beam Elements , Shear force Vz LC: 311 Beam Elements ,	74
Spring force LC: 312 Nodal displacement vector LC: 312	75
Beam Elements , Normal force Nx LC: 312 Beam Elements , Shear force Vz LC: 312 Beam Elements ,	76
Spring force LC: 323 Nodal displacement vector LC: 323	77
Beam Elements , Normal force Nx LC: 323 Beam Elements , Shear force Vz LC: 323 Beam Elements ,	78
Spring force LC: 411 Nodal displacement vector LC: 411	79
Beam Elements , Normal force Nx LC: 411 Beam Elements , Shear force Vz LC: 411 Beam Elements ,	80
Spring force LC: 428 Nodal displacement vector LC: 428	81
Beam Elements , Normal force Nx LC: 428 Beam Elements , Shear force Vz LC: 428 Beam Elements ,	82

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -

•	Introduction	83
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	84
	Combination rule Number 1	84
	Load Case selection	84
	Generated Load Cases	86
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1121 Supporting springs , Spring force LC: 1122	87
	Nodal displacement in global Y LC: 1113 Nodal displacement in global Y LC: 1114	88
	Nodal displacement in global X LC: 1111 Nodal displacement in global X LC: 1112	89
	Beam Elements , Normal force Nx LC: 1101 Beam Elements , Bending moment My LC: 1101	90
	Beam Elements , Normal force Nx LC: 1102 Beam Elements , Bending moment My LC: 1102	91
	Beam Elements , Normal force Nx LC: 1103 Beam Elements , Bending moment My LC: 1103	92
	Beam Elements , Normal force Nx LC: 1104 Beam Elements , Bending moment My LC: 1104	93
	Beam Elements , Shear force Vz LC: 1105 Beam Elements , Shear force Vz LC: 1106	94
•	Introduction	95
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	96
	Combination rule Number 2	96
	Load Case selection	96
	Generated Load Cases	96
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1221 Supporting springs , Spring force LC: 1222	97
	Nodal displacement in global Y LC: 1213 Nodal displacement in global Y LC: 1214	98
	Nodal displacement in global X LC: 1211 Nodal displacement in global X LC: 1212	99
	Beam Elements , Normal force Nx LC: 1201 Beam Elements , Bending moment My LC: 1201	100
	Beam Elements , Normal force Nx LC: 1202 Beam Elements , Bending moment My LC: 1202	101
	Beam Elements , Normal force Nx LC: 1203 Beam Elements , Bending moment My LC: 1203	102
	Beam Elements , Normal force Nx LC: 1204 Beam Elements , Bending moment My LC: 1204	103
	Beam Elements , Shear force Vz LC: 1205 Beam Elements , Shear force Vz LC: 1206	104
•	Introduction	105
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	106
	Combination rule Number 3	106
	Load Case selection	106
	Generated Load Cases	106
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1321 Supporting springs , Spring force LC: 1322	107
	Nodal displacement in global Y LC: 1313 Nodal displacement in global Y LC: 1314	108
	Nodal displacement in global X LC: 1311 Nodal displacement in global X LC: 1312	109
	Beam Elements , Normal force Nx LC: 1301 Beam Elements , Bending moment My LC: 1301	110
	Beam Elements , Normal force Nx LC: 1302 Beam Elements , Bending moment My LC: 1302	111
	Beam Elements , Normal force Nx LC: 1303 Beam Elements , Bending moment My LC: 1303	112
	Beam Elements , Normal force Nx LC: 1304 Beam Elements , Bending moment My LC: 1304	113
	Beam Elements , Shear force Vz LC: 1305 Beam Elements , Shear force Vz LC: 1306	114
	ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)	
	Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	115
	Selected Beam Elements	115

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures

Shear Design

Longitudinal Reinforcements - Design case No. 1

Shear Reinforcements per Cutted Part of Section - Design case No. 1

115

115

116

118

ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018

Selected Beam Elements

Nonlinear Stresses

Parameters for Nonlinear Stresses

Maximum Stresses and Checked Limits

Longitudinal Reinforcements - Design case No. 2

120

120

120

120

120

120

ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ

Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 1 Beam Elements , Longitudinal Reinforce

Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 2 Beam Elements , Longitudinal Reinforce

Shear reinforcements (maximum) BC: 2

124

125

126

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)
Snow load zone : 1

Mat 1 C 25/30 (EN 1992)

Young's modulus	E	31476	[N/mm ²]	Safetyfactor		1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	25.00	[MPa]
Shear modulus	G	13115	[N/mm ²]	Nominal strength	fck	25.00	[MPa]
Compression modulus	K	17487	[N/mm ²]	Tensile strength	fctm	2.56	[MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.80	[MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	3.33	[MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.69	[MPa]
				Service strength	fcm	33.00	[MPa]
				Fatigue strength	fcd,fat	12.75	[MPa]
				Tensile strength	fctd	1.20	[MPa]
				Tensile failure energy	Gf	0.14	[N/mm]

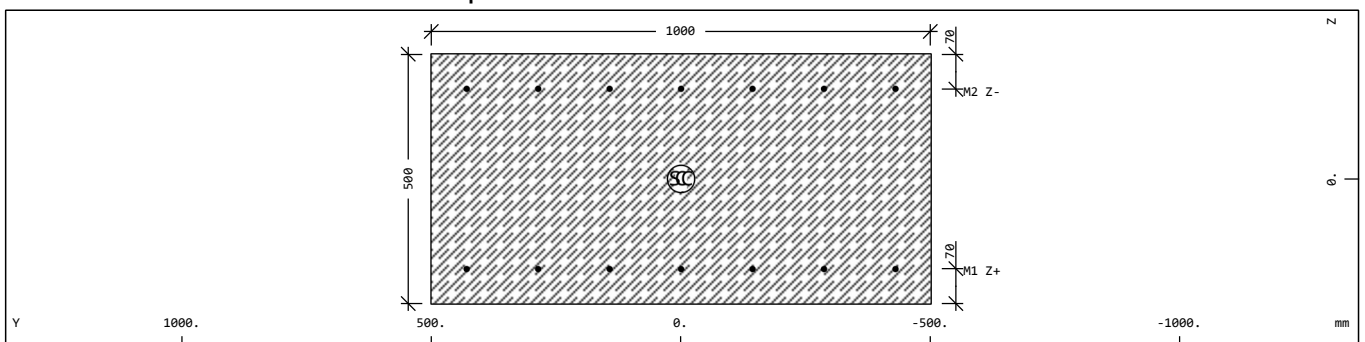
Mat 2 B 500 C (EN 1992)

Young's modulus	E	200000	[N/mm ²]	Safetyfactor		1.15	[-]
Poisson's ratio	μ	0.30	[-]	Yield stress	fy	500.00	[MPa]
Shear modulus	G	76923	[N/mm ²]	Compressive yield	fyc	500.00	[MPa]
Compression modulus	K	166667	[N/mm ²]	Tensile strength	ft	575.00	[MPa]
Nominal Weight	γ	78.5	[kN/m ³]	Compressive strength	fc	575.00	[MPa]
Mean density	ρ	7850.0	[kg/m ³]	Ultimate strain		75.00	[o/oo]
Elongation coefficient	α	1.20E-05	[1/K]	relative bond coeff.		1.00	[-]
max. thickness	t-max	32.00	[mm]	EN 1992 bond coeff.	k1	0.80	[-]
				Hardening modulus	Eh	0.00	[MPa]
				Proportional limit	fp	500.00	[MPa]
				Dynamic allowance	σ-dyn	152.17	[MPa]

Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Young's modulus	E	5000000	[N/mm ²]	Safetyfactor		1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	20.00	[MPa]
Shear modulus	G	2083333	[N/mm ²]	Nominal strength	fck	20.00	[MPa]
Compression modulus	K	2777778	[N/mm ²]	Tensile strength	fctm	2.21	[MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.55	[MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	2.87	[MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.32	[MPa]
				Service strength	fcm	28.00	[MPa]
				Fatigue strength	fcd,fat	10.43	[MPa]
				Tensile strength	fctd	1.03	[MPa]
				Tensile failure energy	Gf	0.13	[N/mm]

Cross section No. 1 - Πλάκα Πυθμένα



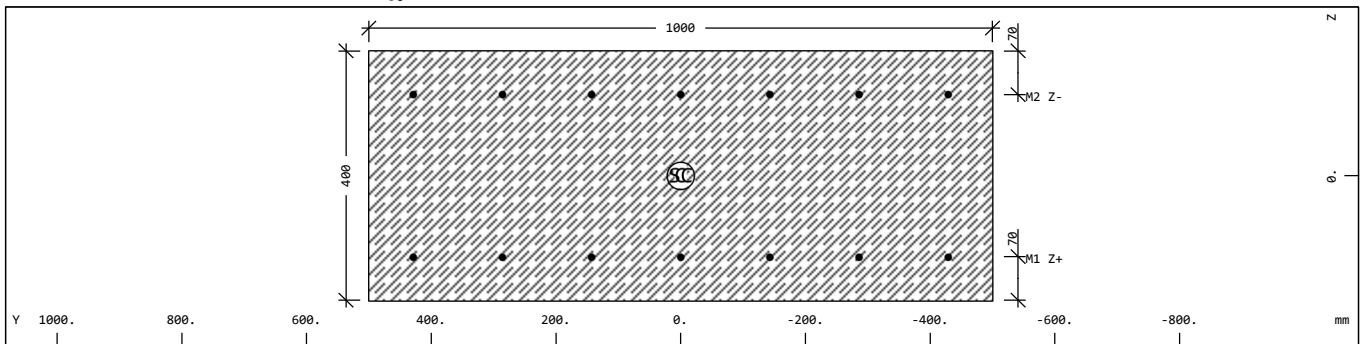
Cross section No. 1 - Πλάκα Πυθμένα

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
1	1	5.0000E-01	4.167E-01	1.042E-02	0.0	0.0	31476	1250.0	4.167E-02
	2	2.859E-02	4.167E-01	4.167E-02	0.0	0.0	13115	(CENTR)	1.042E-02
= Πλάκα Πυθμένα									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 2 - Τοίχοι

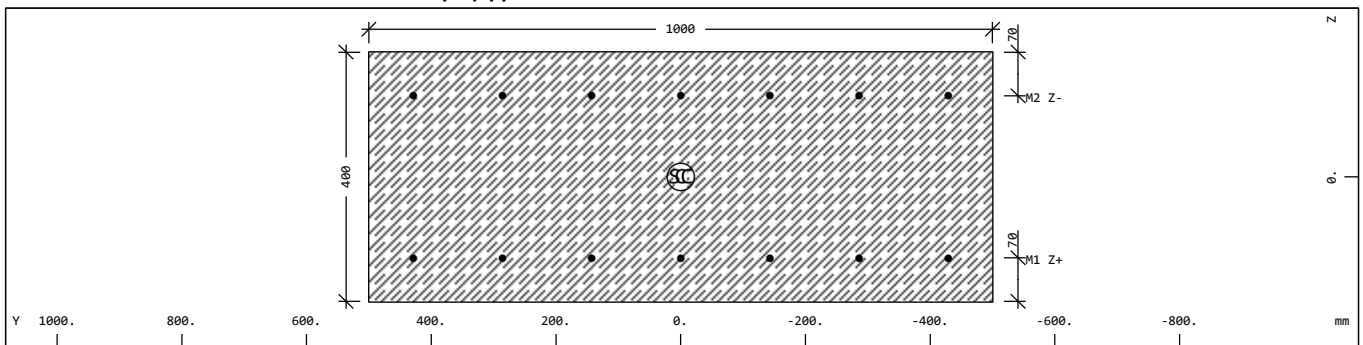


Cross section No. 2 - Τοίχοι

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
2	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	31476	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	13115	(CENTR)	5.333E-03
= Τοίχοι									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 3 - Πλάκα Οροφής



Cross section No. 3 - Πλάκα Οροφής

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
3	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	31476	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	13115	(CENTR)	5.333E-03
= Πλάκα Οροφής									
SNo	section number				yc[mm],zc[mm]		ordinate of elastic centroid		
Mat	material number				ysc[mm],zsc[mm]		ordinate of shear centre		
A[m2]	sectional area				E[N/mm2]		Young's modulus		
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area				g[kg/m]		weight per length		
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups

Grp	number	Type	min-no	max-no	Designation
0	33	SPRI	1	33	Έδραση
1	32	BEAM	101	132	Πυθμένας
2	15	BEAM	201	215	Τοίχος (Αρ)
3	15	BEAM	301	315	Τοίχος (Δεξ)
4	24	BEAM	401	424	Πλάκα
5	16	SPRI	501	516	Πλ. Έδραση (Αρ)
6	16	SPRI	601	616	Πλ. Έδραση (Δεξ)
Grp primary group number number number of elements within group Type element type min-no,max-no minimum/maximum element number					

Summary of beam elements

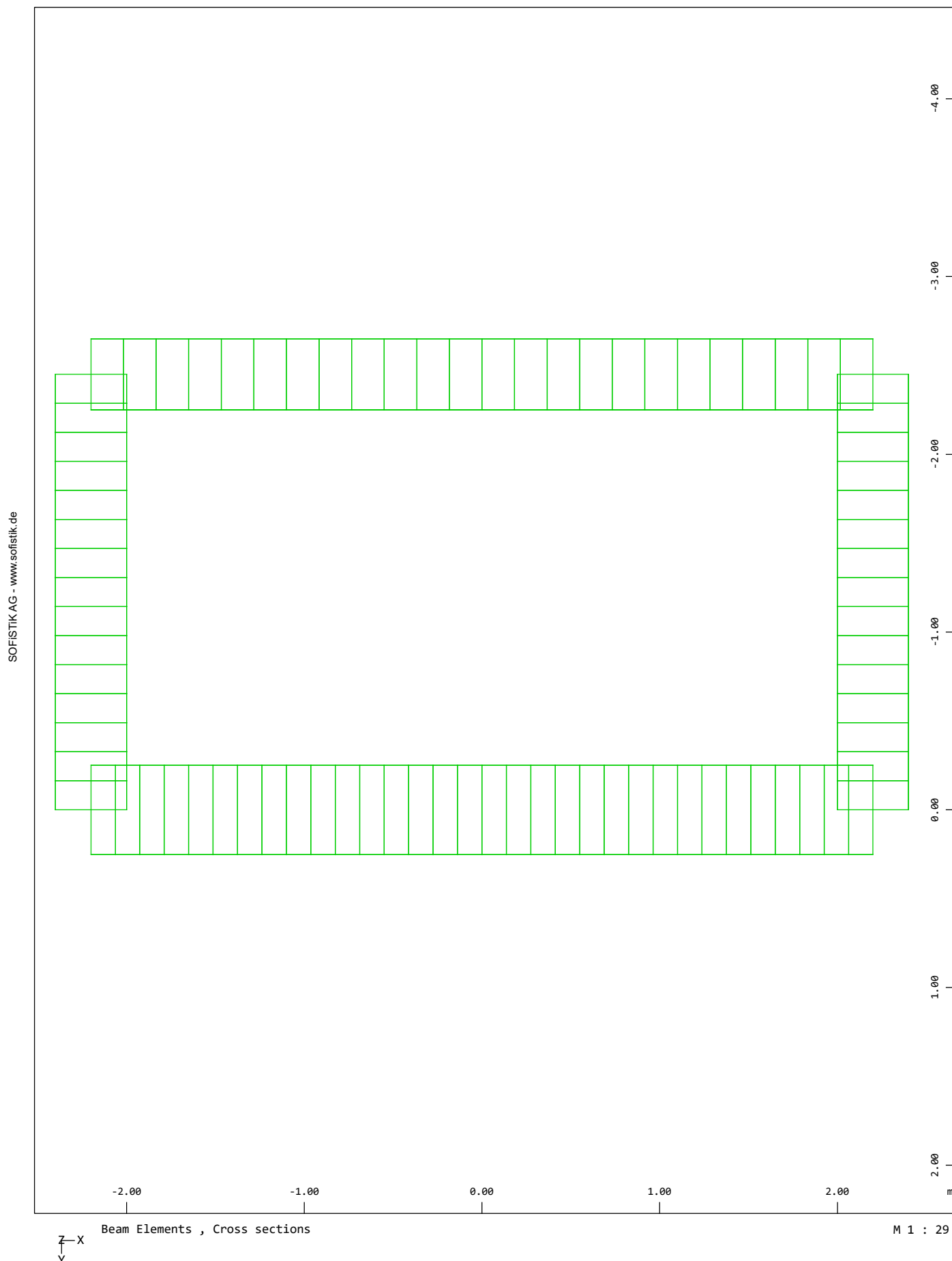
Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]
1	4.400	0.138	2.200	5.500
2	2.450	0.163	0.980	2.450
3	2.450	0.163	0.980	2.450
4	4.400	0.183	1.760	4.400
Sum	13.700		5.920	14.800
Grp primary group number				

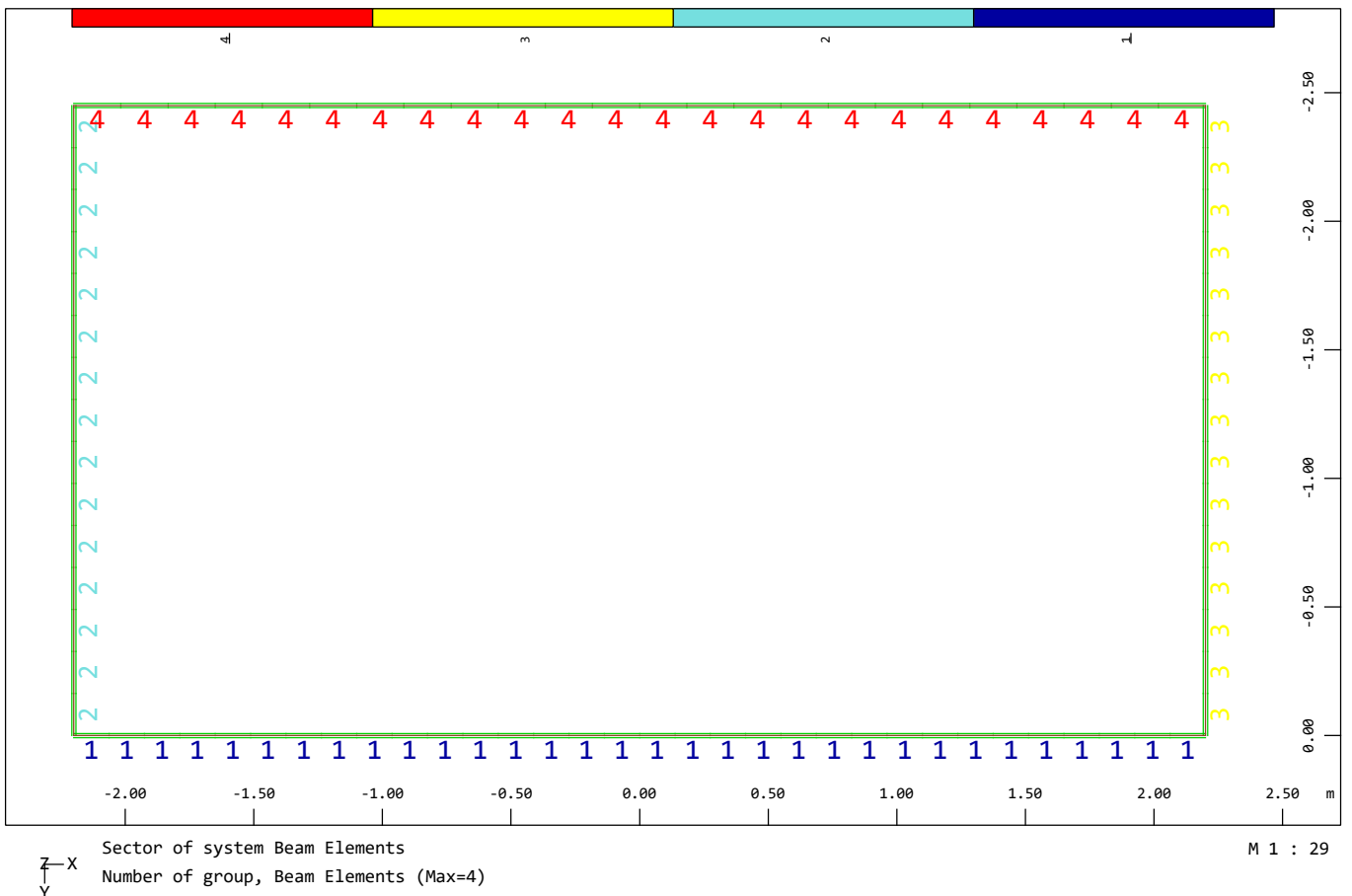
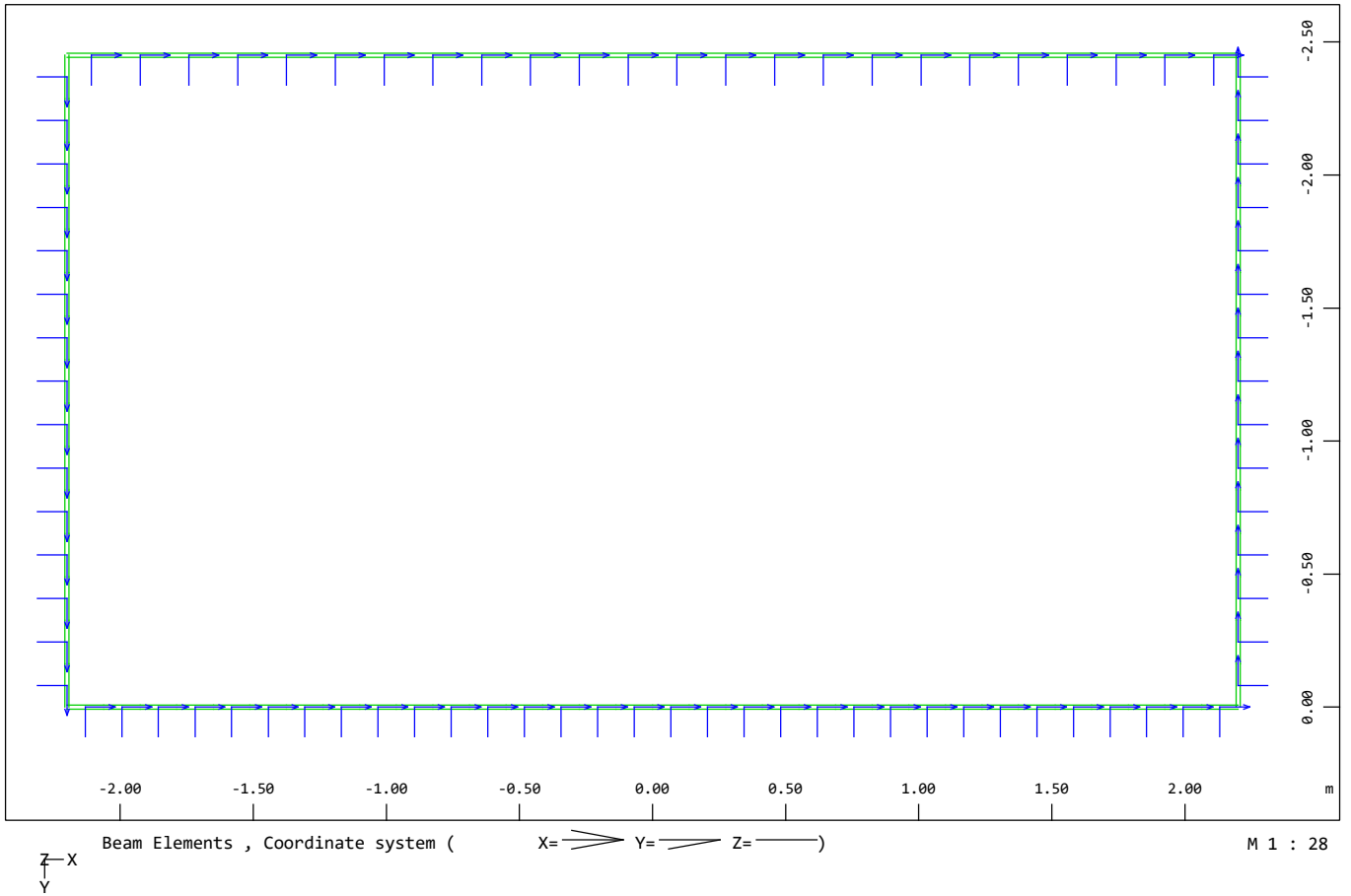
Cross sections

SNo	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Designation
1	4.400	0.138	2.200	5.500	Πλάκα Πυθμένα
2	4.900	0.163	1.960	4.900	Τοίχοι
3	4.400	0.183	1.760	4.400	Πλάκα Οροφής
Sum	13.700		5.920	14.800	
SNo section number					

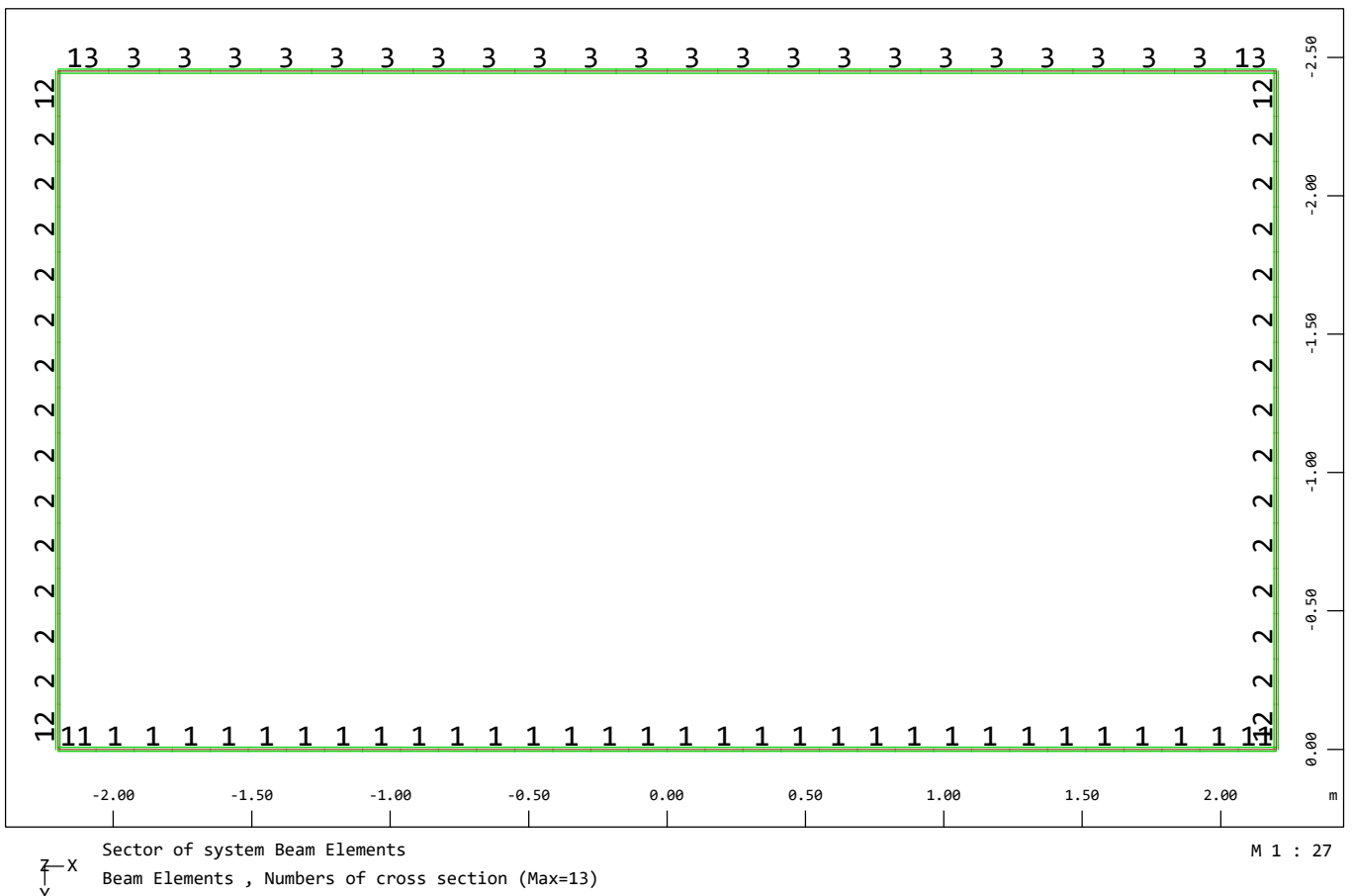
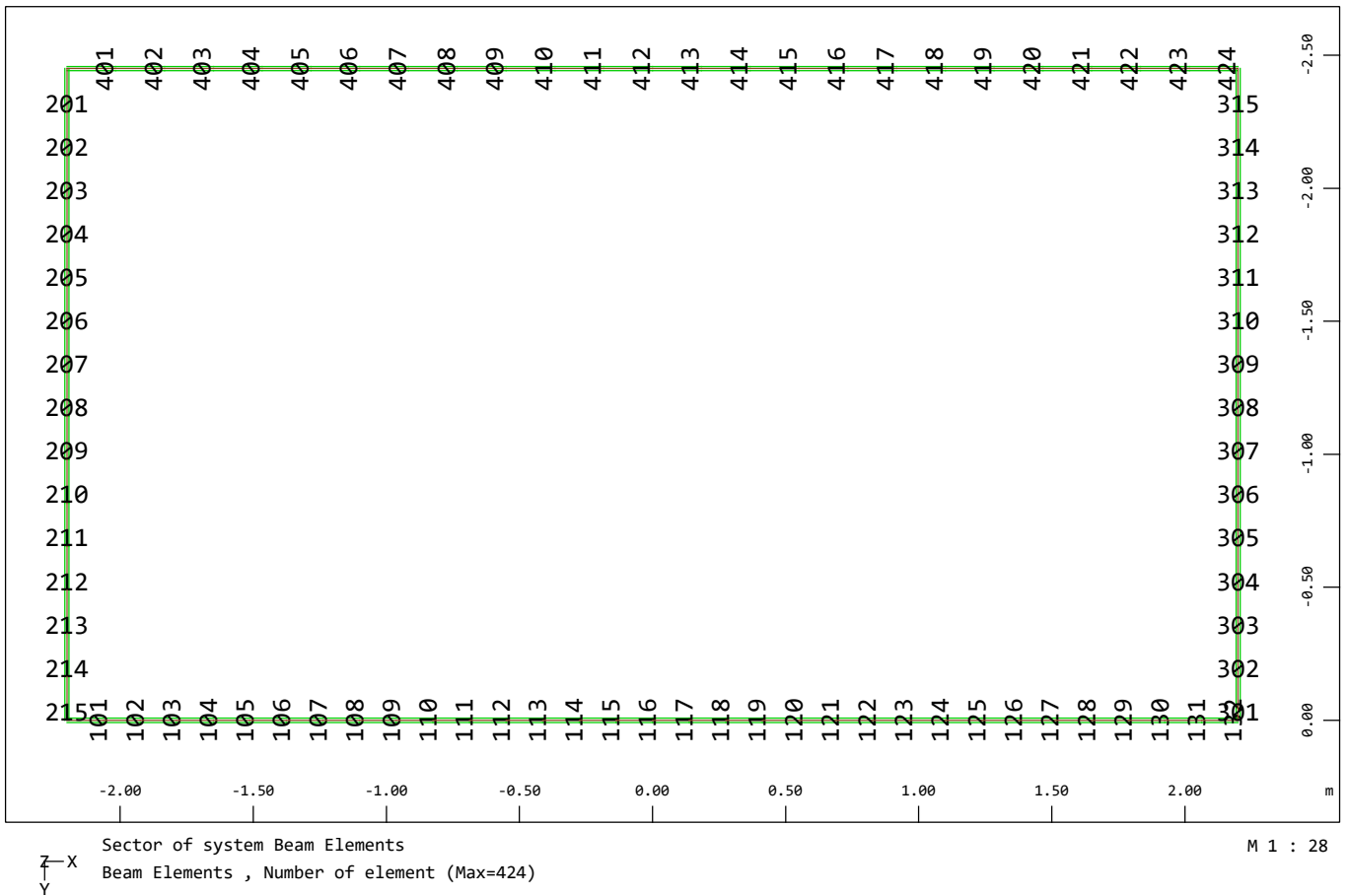
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



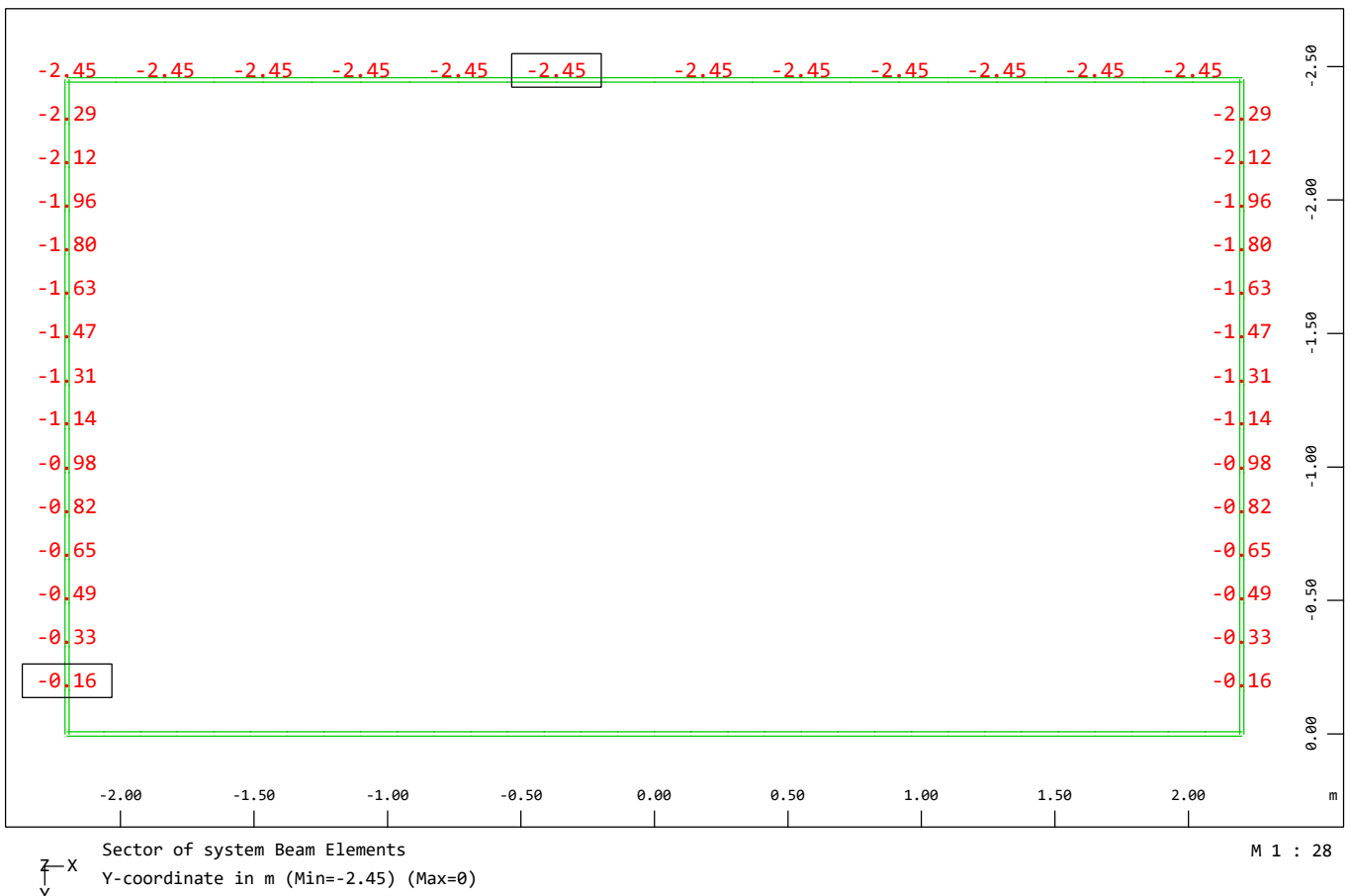
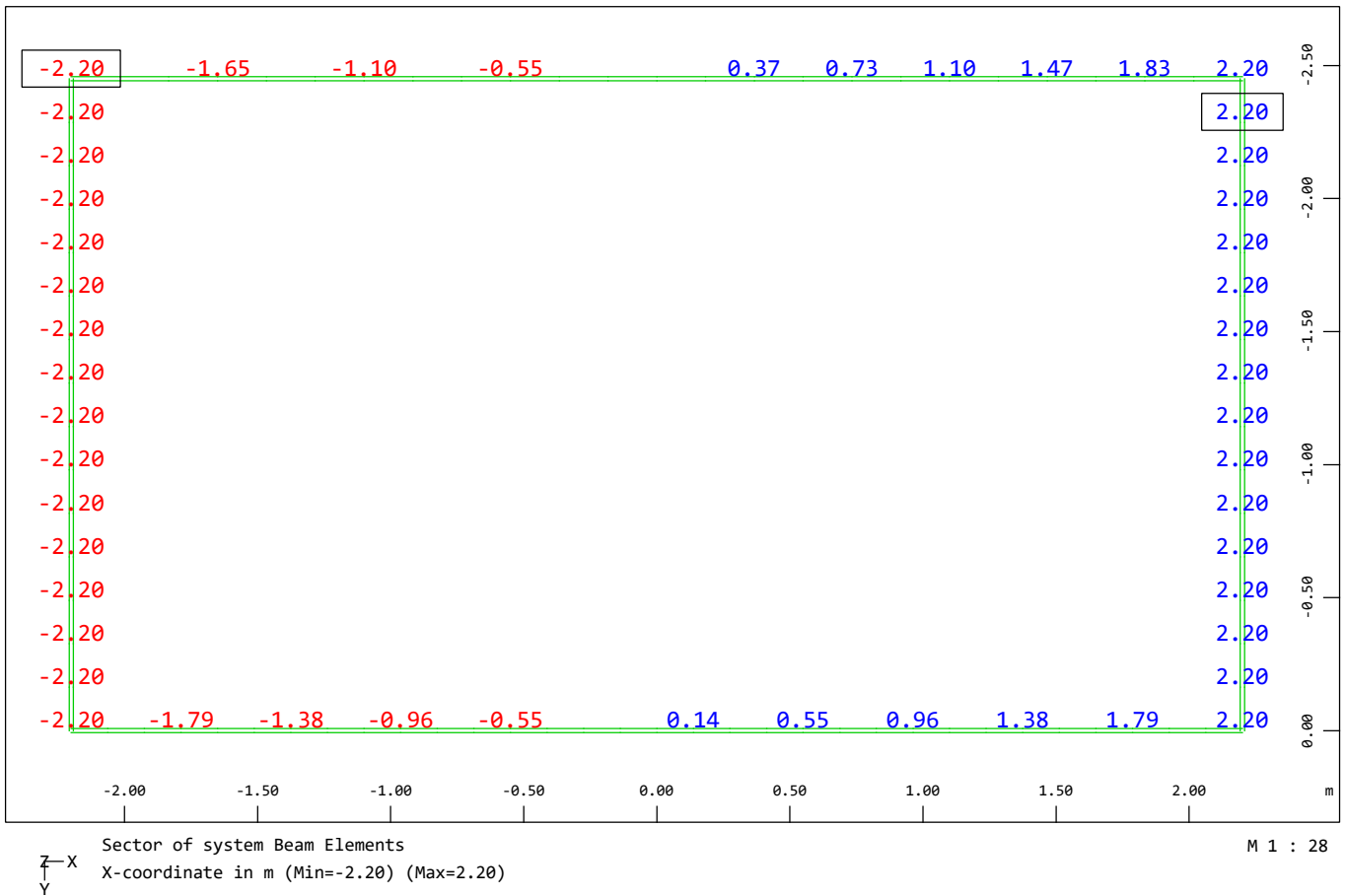
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- ΑΓΩΓΟΣ Α1 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



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- ΑΓΩΓΟΣ Α1 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ

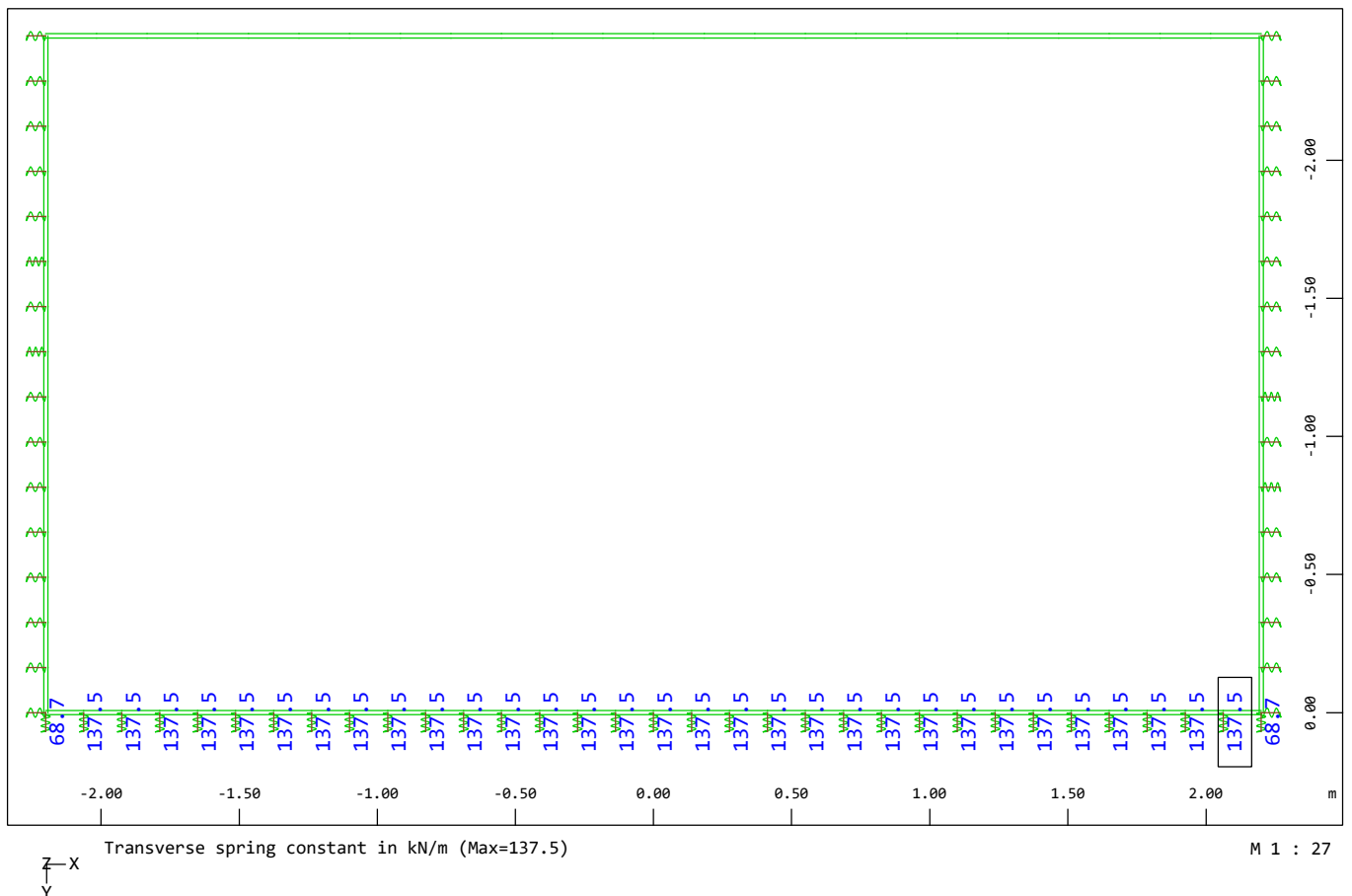
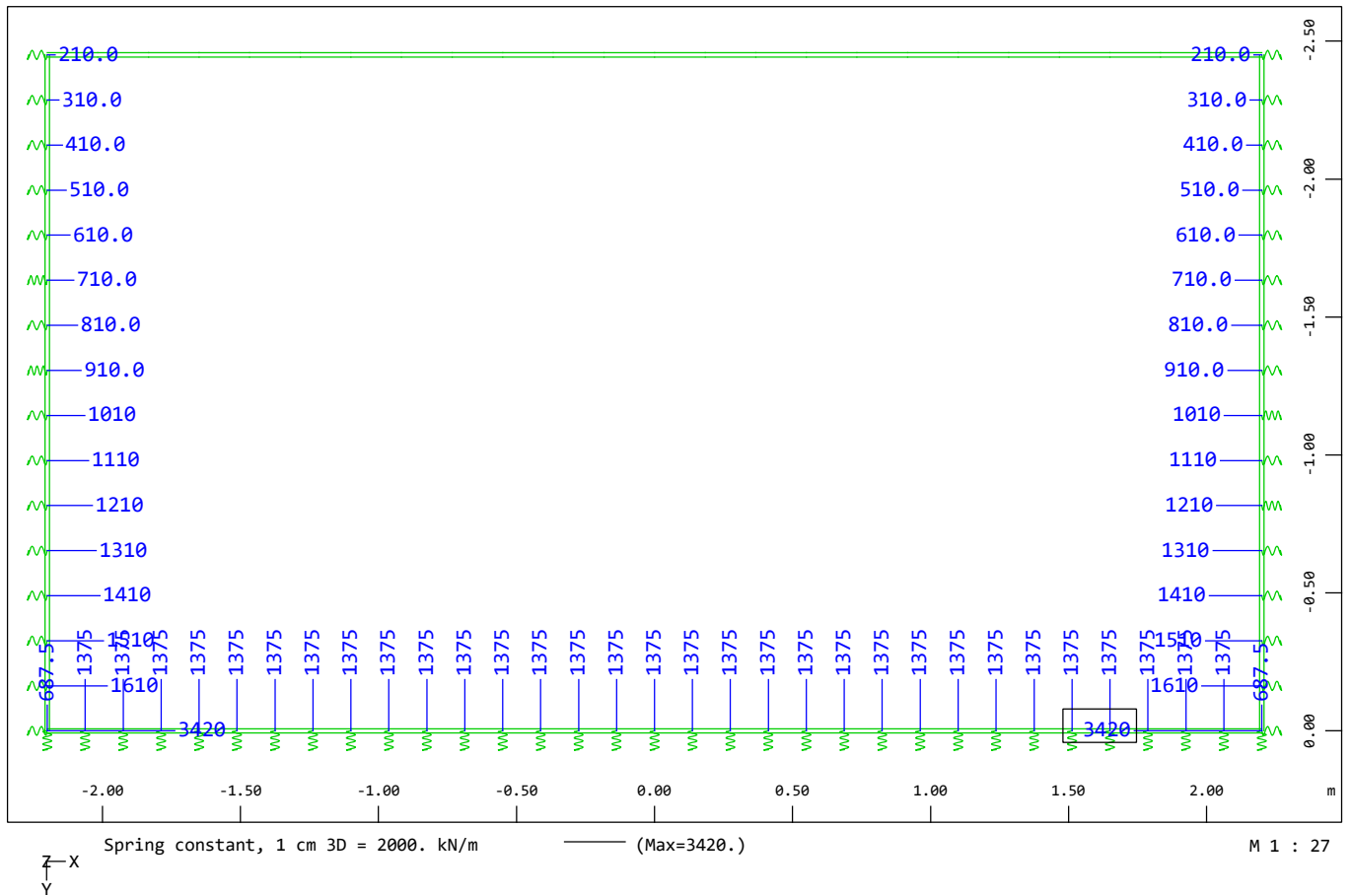


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



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- ΑΓΩΓΟΣ Α1 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ

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- ΑΓΩΓΟΣ Α1 -

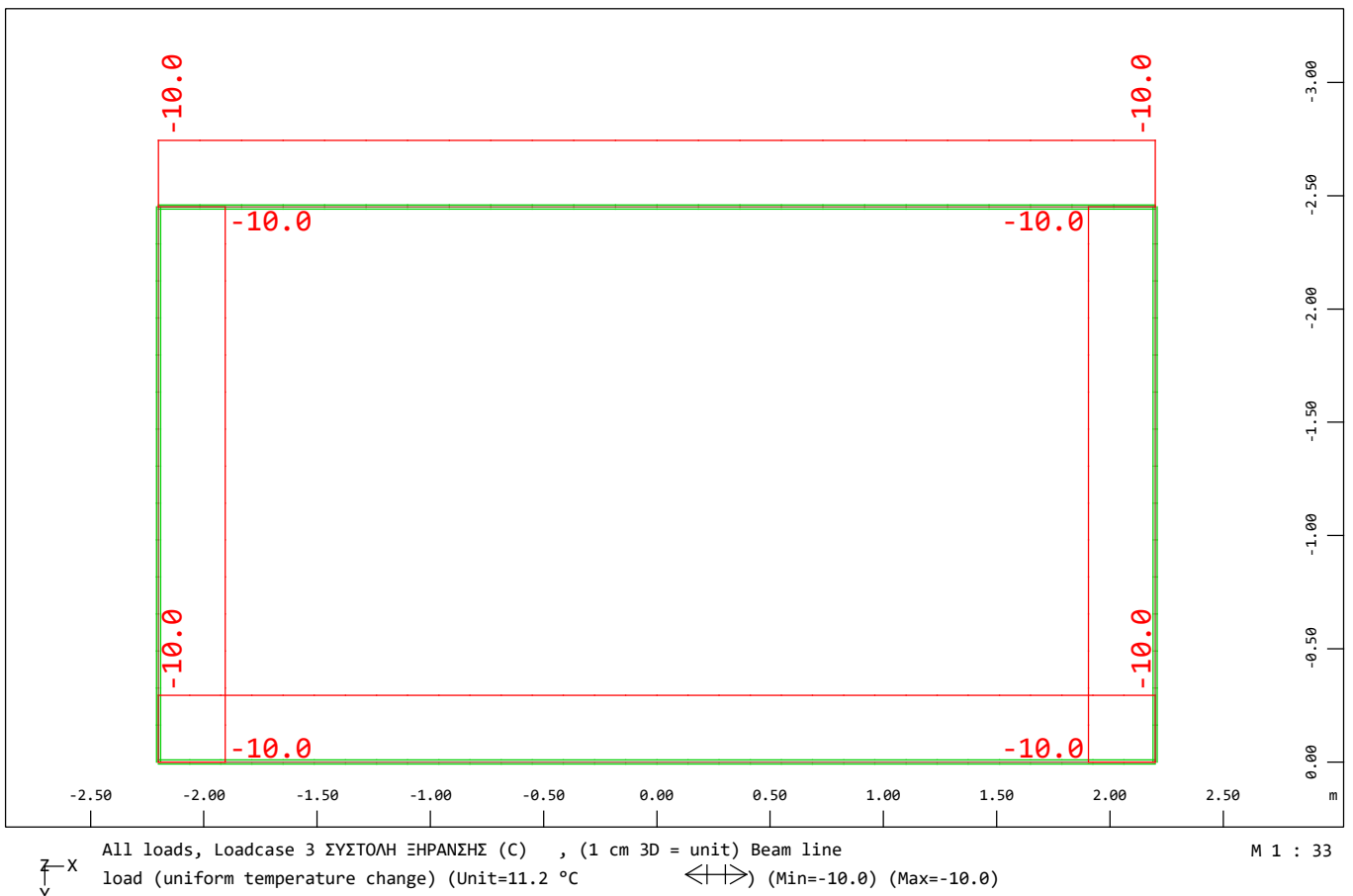
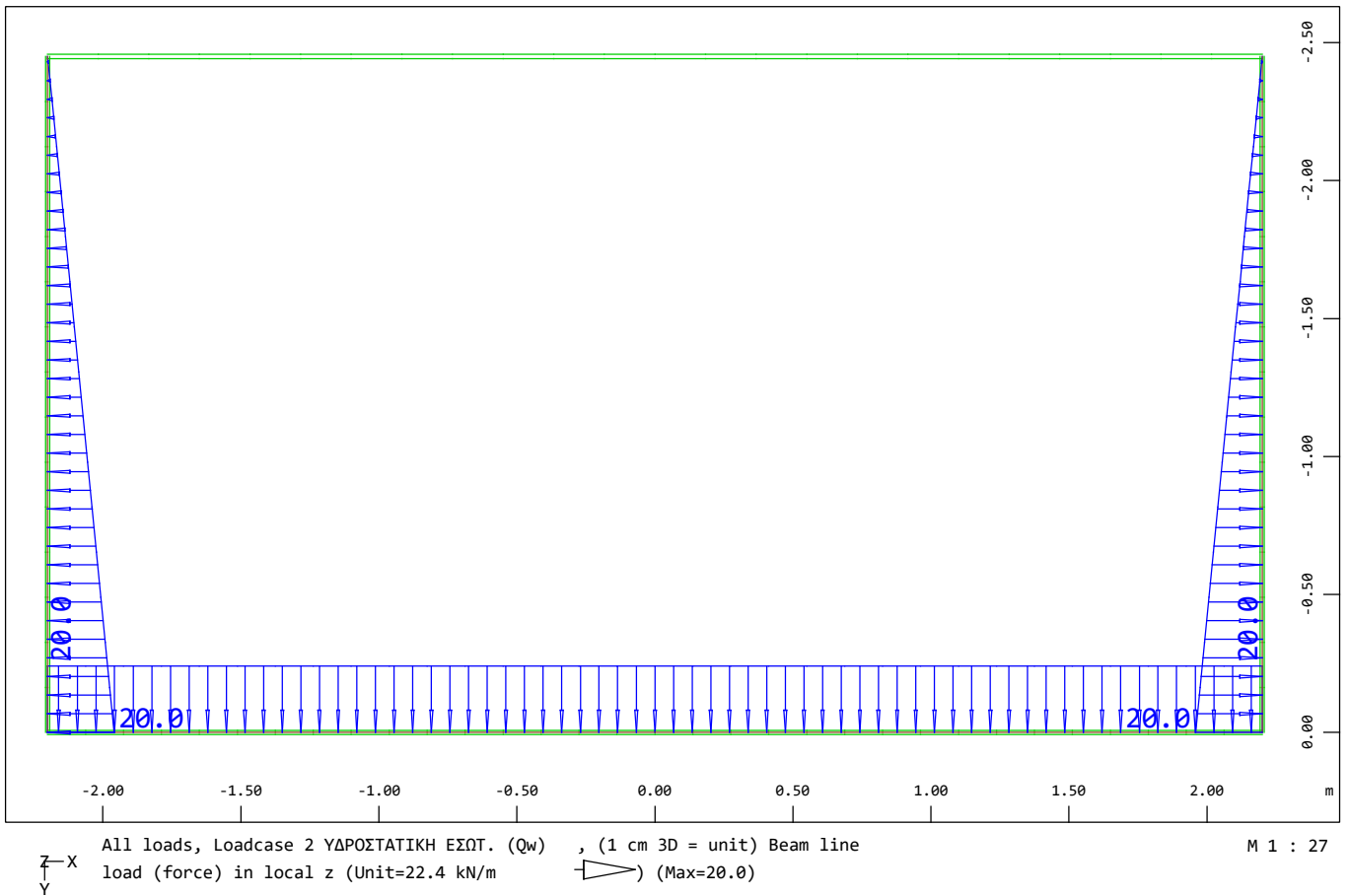
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ΟΡΙΣΜΟΣ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case	1 ΙΔΙΟ ΒΑΡΟΣ (G)	
Factor forces and moments		1.000
Factor dead weight	DL-YY	1.000
Load Case	2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	
Factor forces and moments		1.000
Load Case	3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	
Factor forces and moments		1.000
Load Case	4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	
Factor forces and moments		1.000
Load Case	5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	
Factor forces and moments		1.000
Load Case	6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	
Factor forces and moments		1.000
Load Case	7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	
Factor forces and moments		1.000
Load Case	11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=1.1) (R1)	
Factor forces and moments		1.000
Load Case	12 ΚΙΝΗΤΑ (Hεπ.=1.1) (Q1)	
Factor forces and moments		1.000
Load Case	13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (EA1)	
Factor forces and moments		1.000
Load Case	14 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (ES1)	
Factor forces and moments		1.000
Load Case	21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=2.1) (R2)	
Factor forces and moments		1.000
Load Case	22 ΚΙΝΗΤΑ (Hεπ.=2.1) (Q2)	
Factor forces and moments		1.000
Load Case	23 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (EA2)	
Factor forces and moments		1.000
Load Case	24 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (ES2)	
Factor forces and moments		1.000

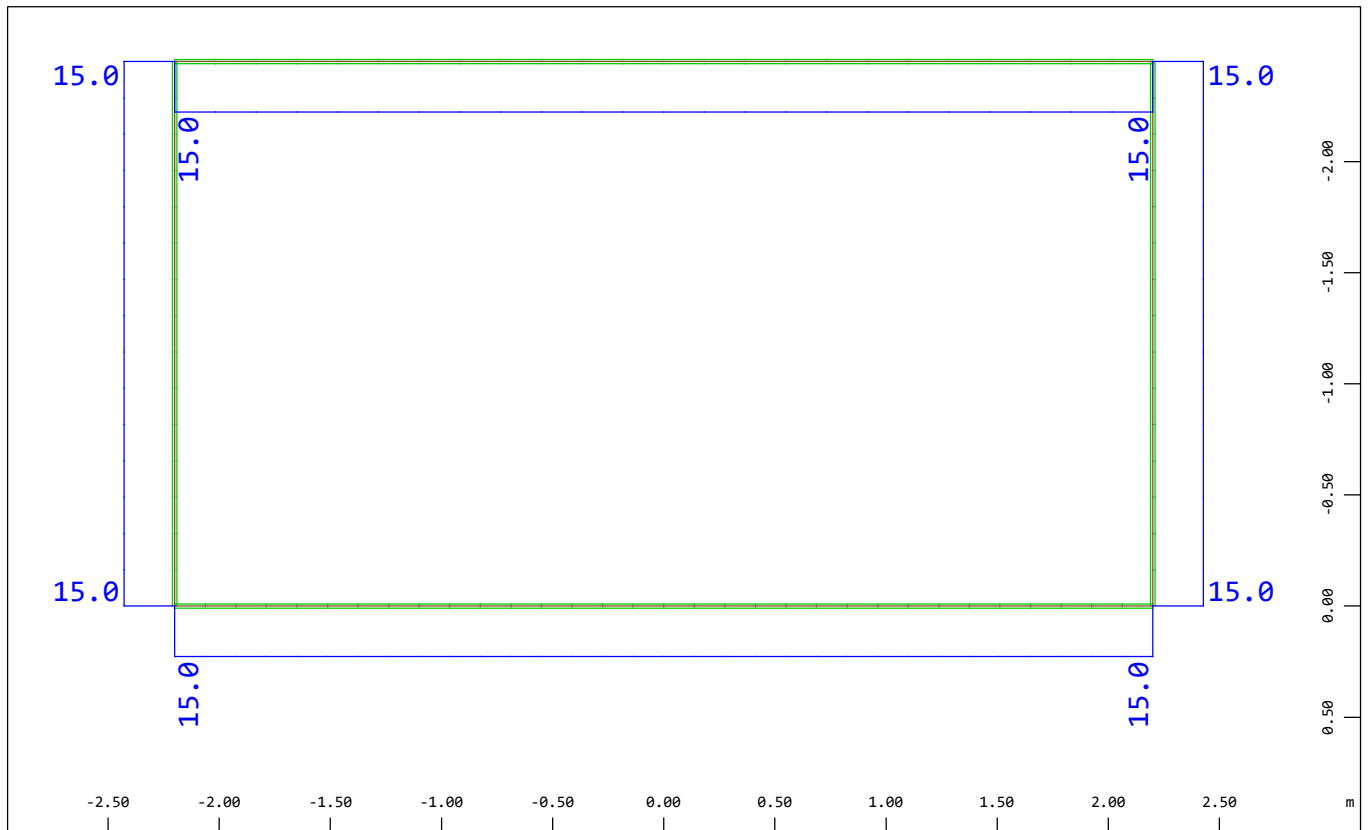
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΥΔΡΟΣΤΑΤΙΚΗ ΠΙΕΣΗ & ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

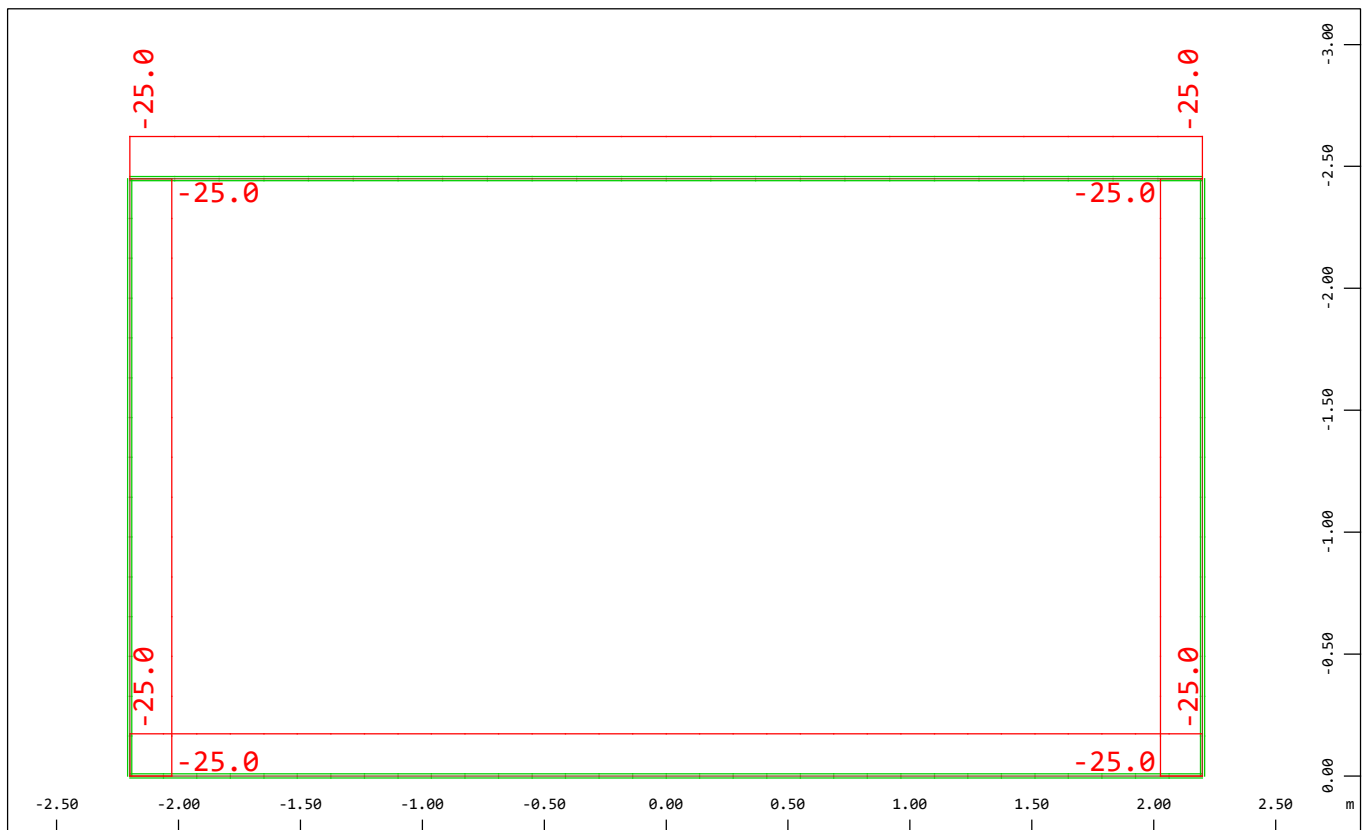
- ΑΓΩΓΟΣ Α1 -

ΦΟΡΤΙΑ ΟΜΟΙΟΜΟΡΦΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ T+ & T-



All loads, Loadcase 4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+) , (1 cm 3D = unit) Beam line
load (uniform temperature change) (Unit=22.4 °C) (Max=15.0)

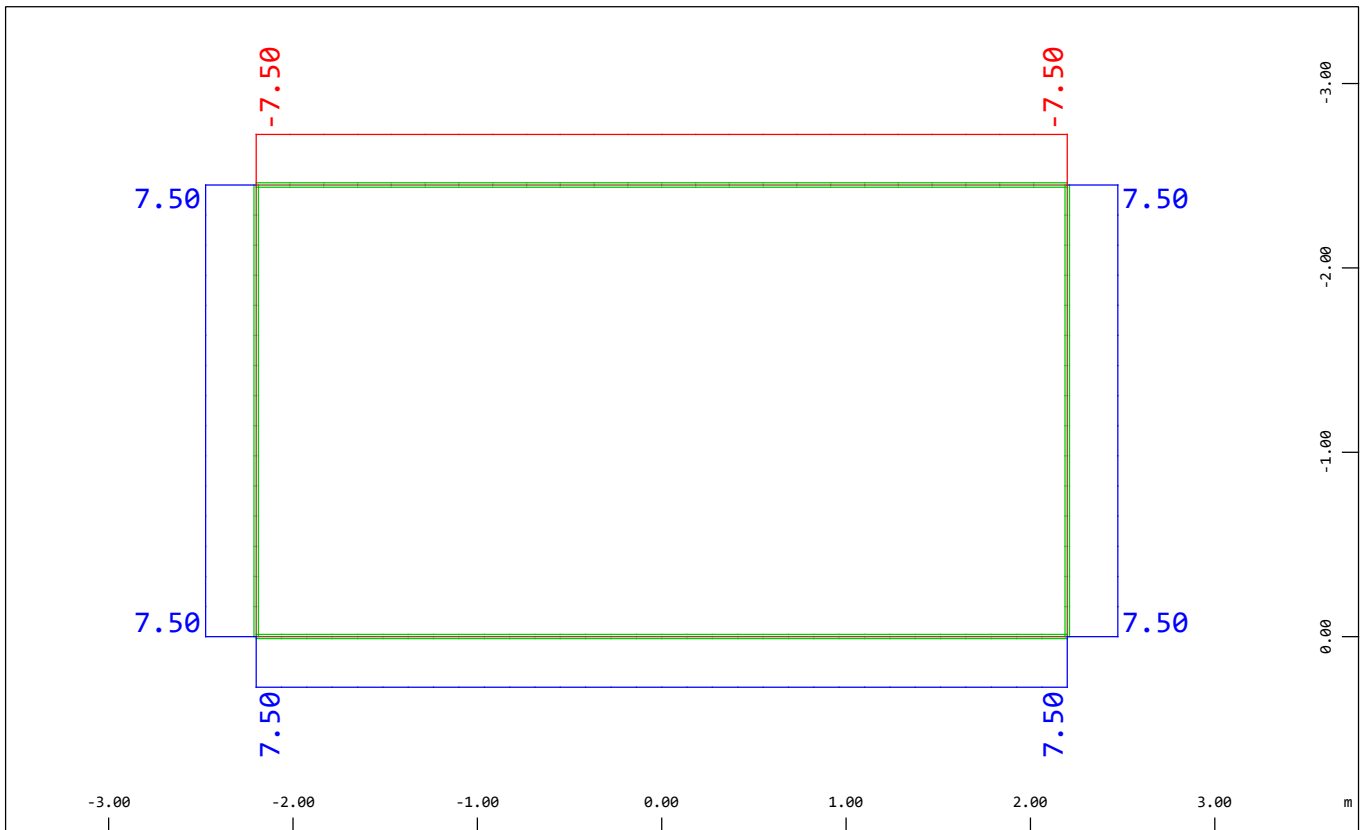
M 1 : 34



All loads, Loadcase 5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-) , (1 cm 3D = unit) Beam line
load (uniform temperature change) (Unit=44.8 °C) (Min=-25.0) (Max=-25.0)

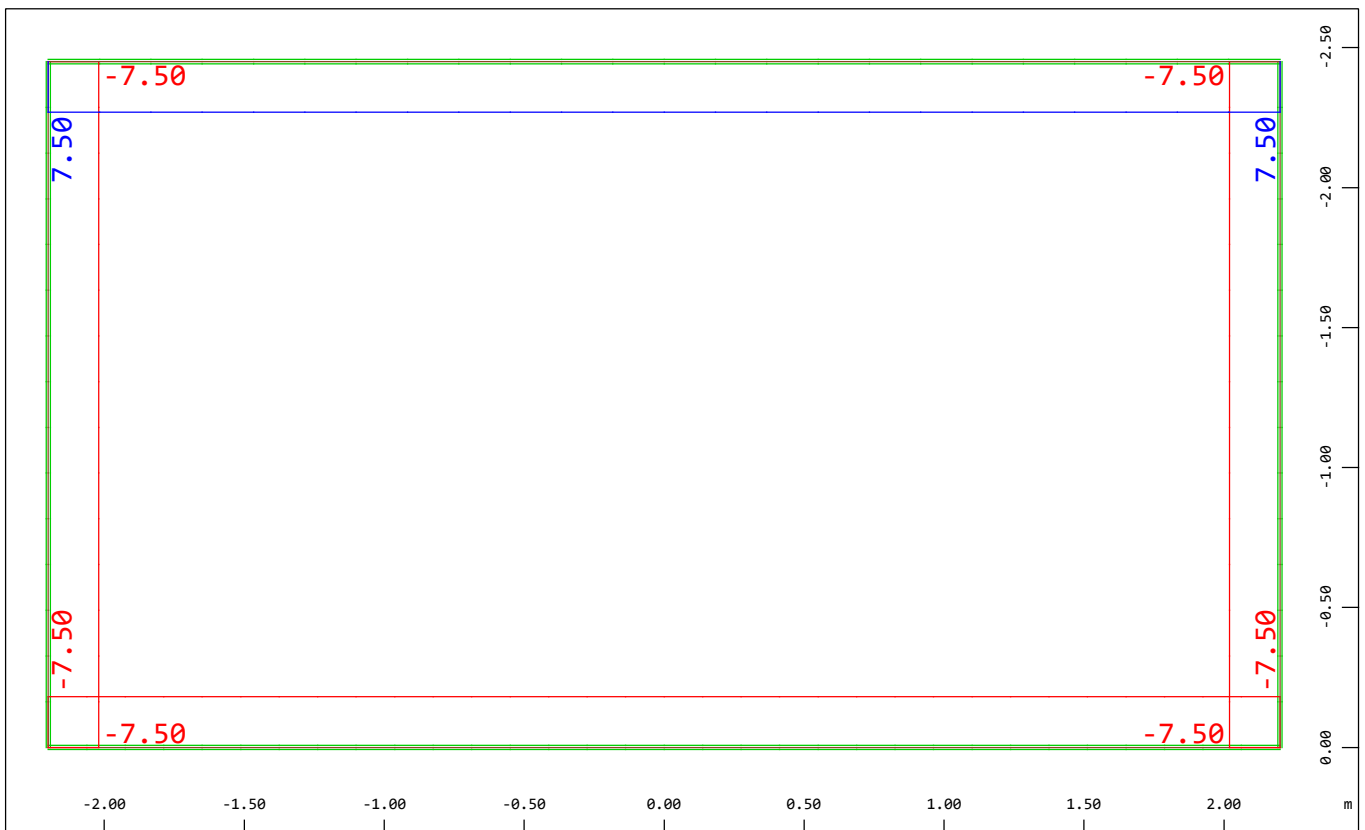
M 1 : 31

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΦΟΡΤΙΑ ΚΑΜΠΤΙΚΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ dT+ & dT-



All loads, Loadcase 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+) , (1 cm 3D = unit) Beam line load
(temperature increase) in local z (Unit=11.2 °C) <+> (Min=-7.50) (Max=7.50)

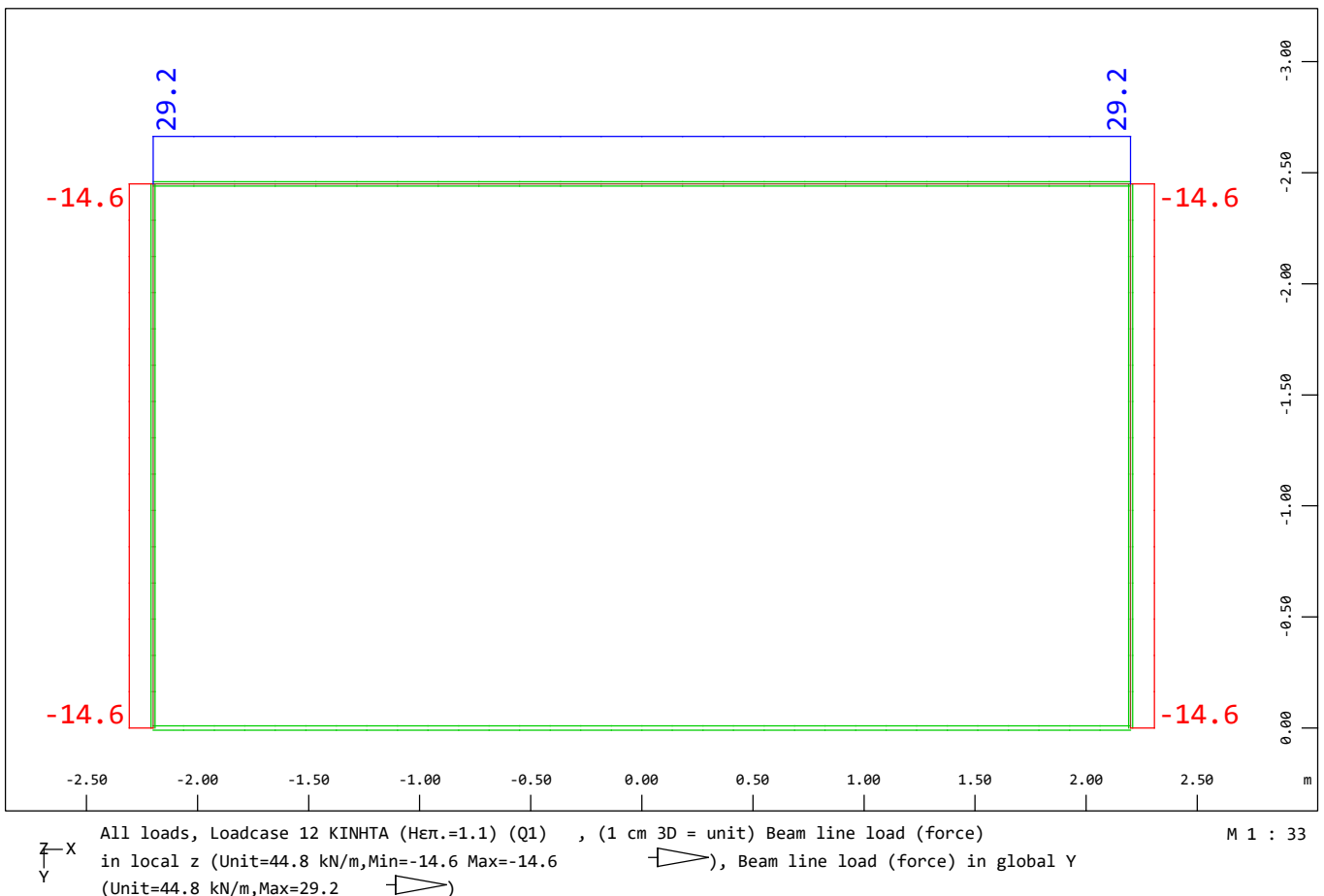
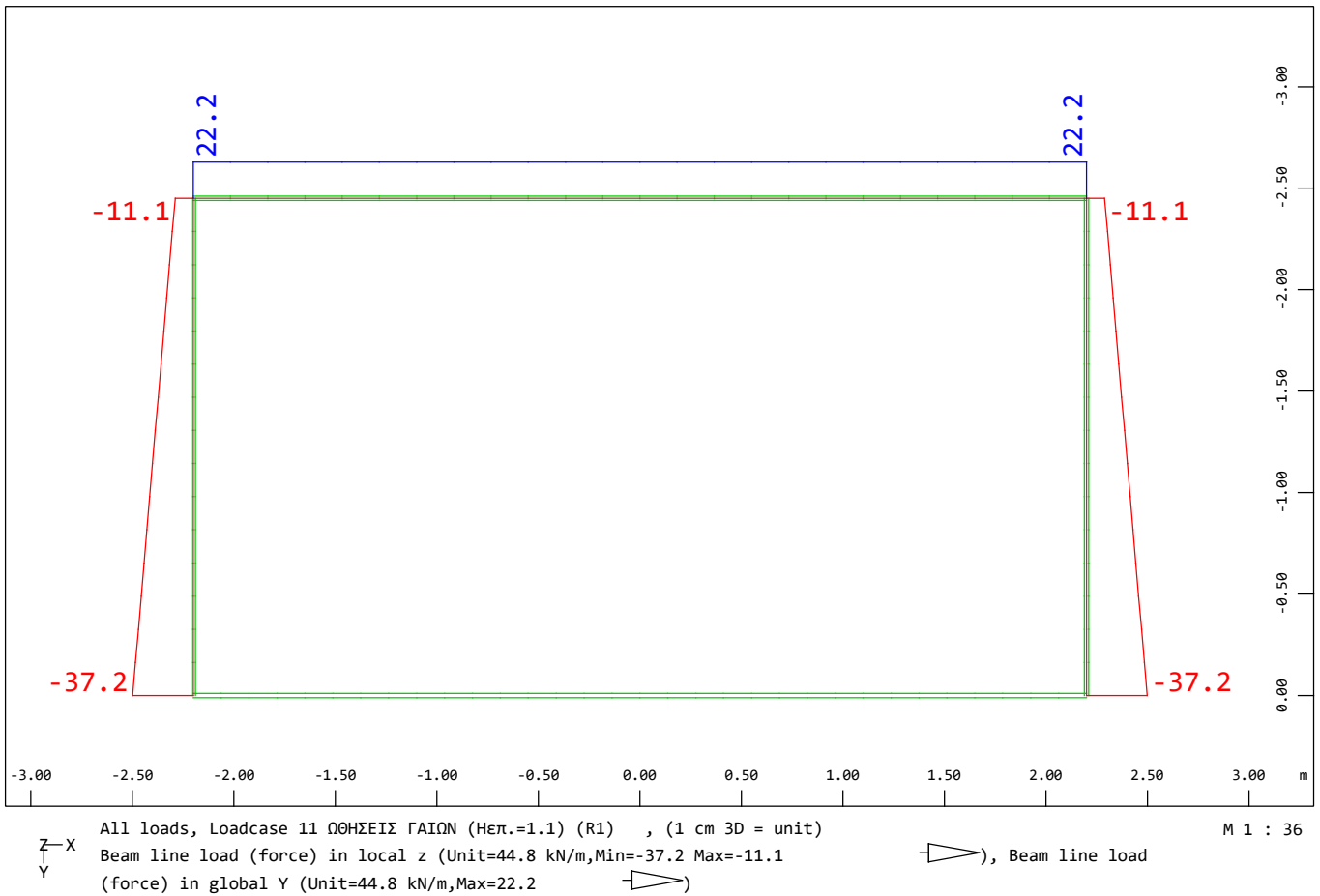
M 1 : 41



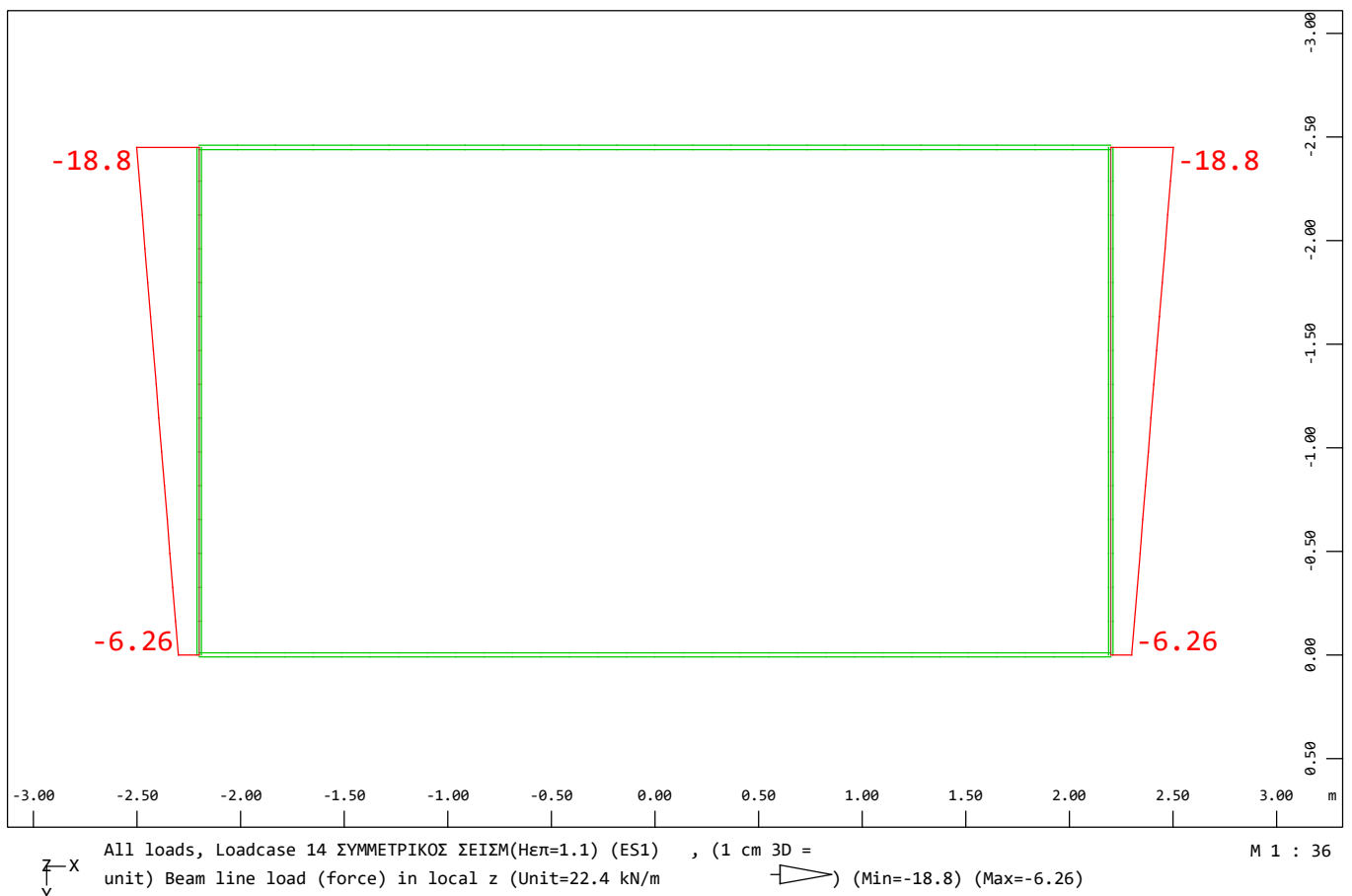
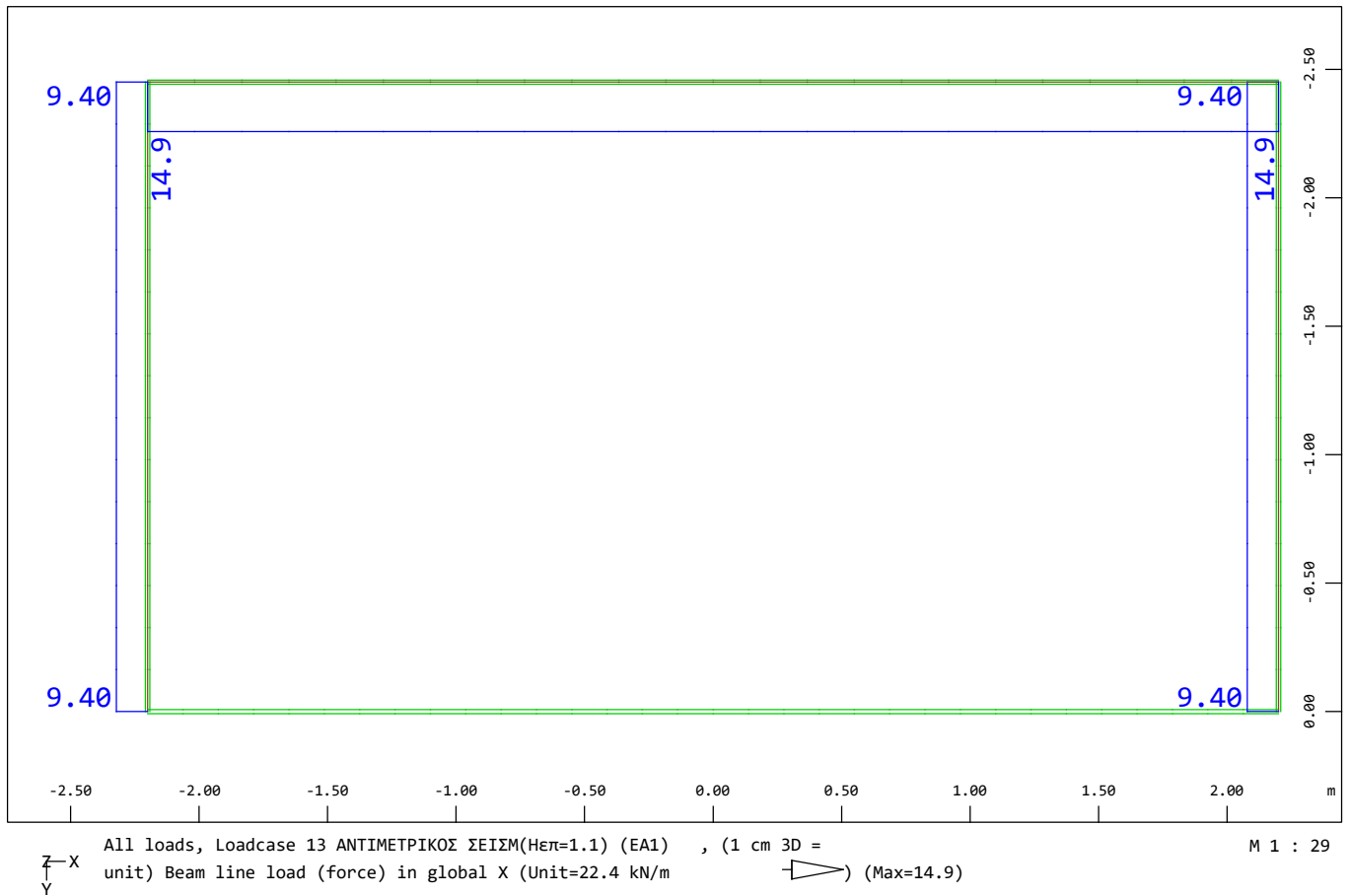
All loads, Loadcase 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-) , (1 cm 3D = unit) Beam line load
(temperature increase) in local z (Unit=11.2 °C) <+> (Min=-7.50) (Max=7.50)

M 1 : 27

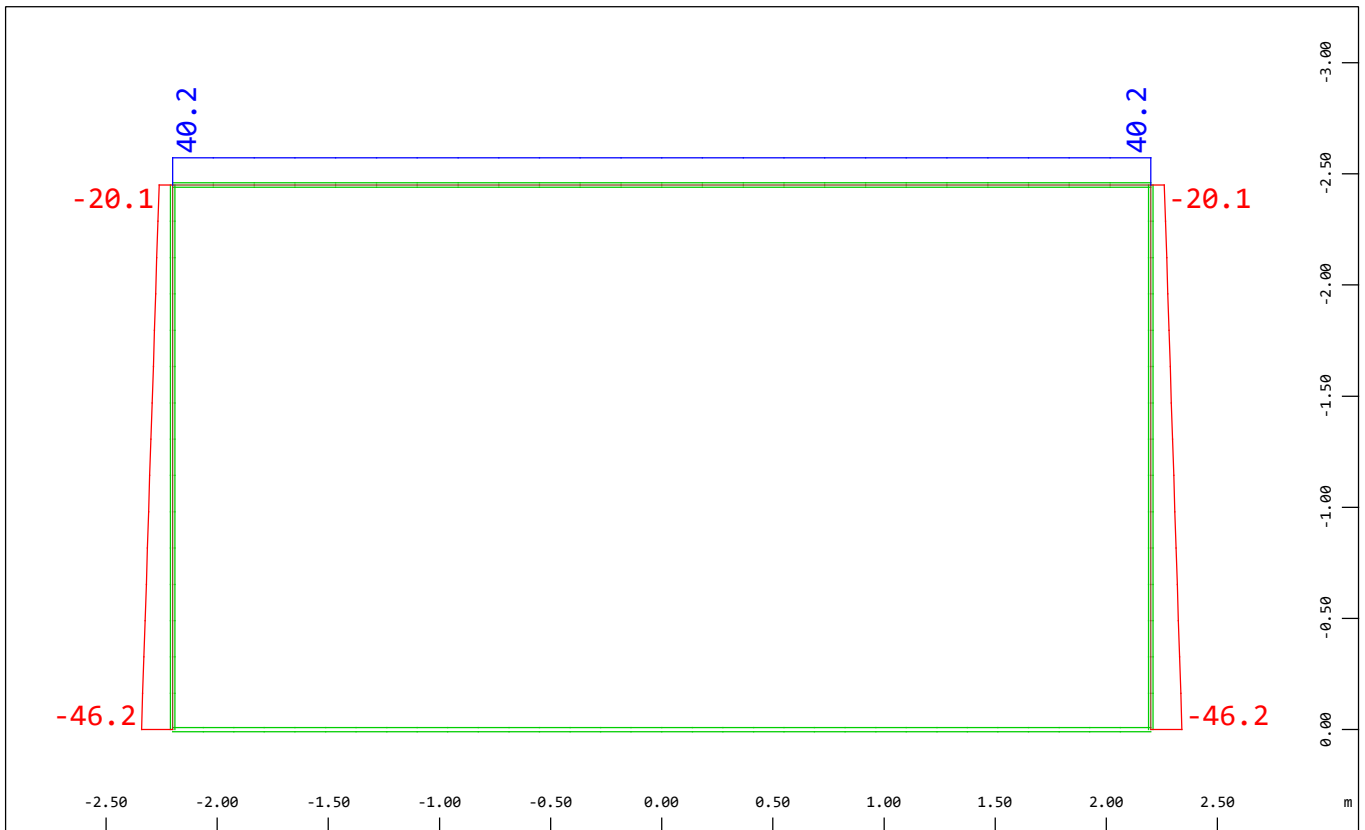
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ

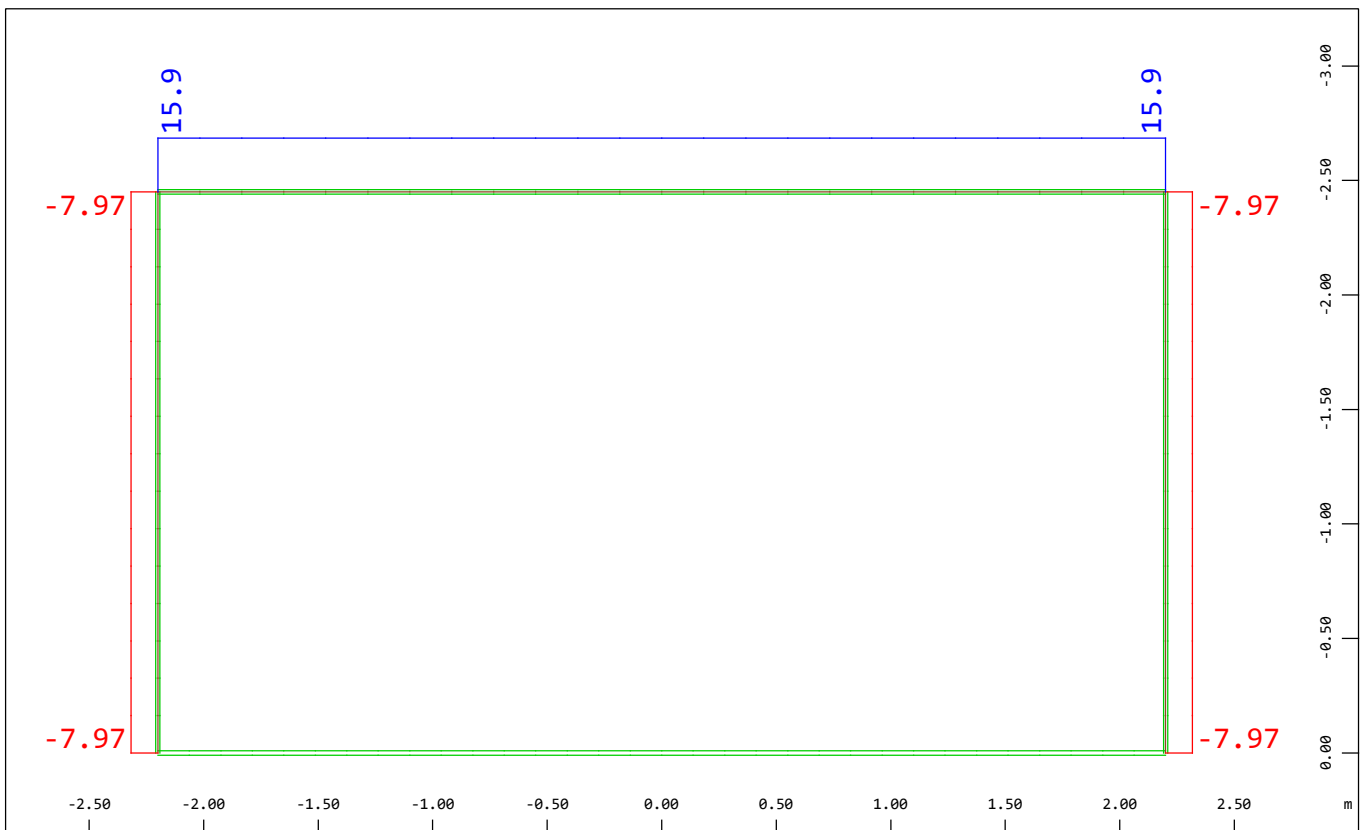


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



All loads, Loadcase 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=2.1) (R2), (1 cm 3D = unit)
Beam line load (force) in local z (Unit=112.1 kN/m, Min=-46.2 Max=-20.1)
load (force) in global Y (Unit=112.1 kN/m, Max=40.2)

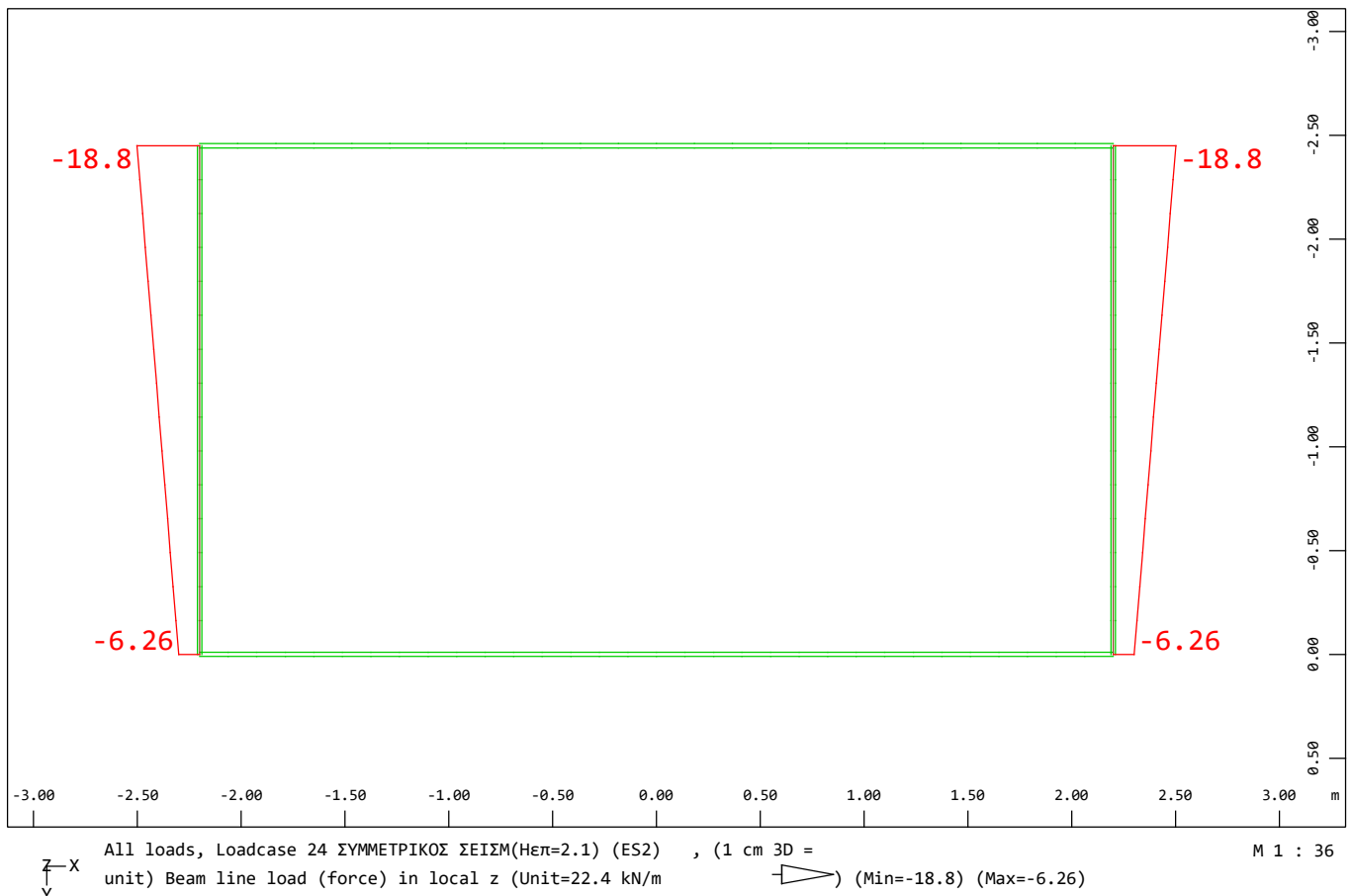
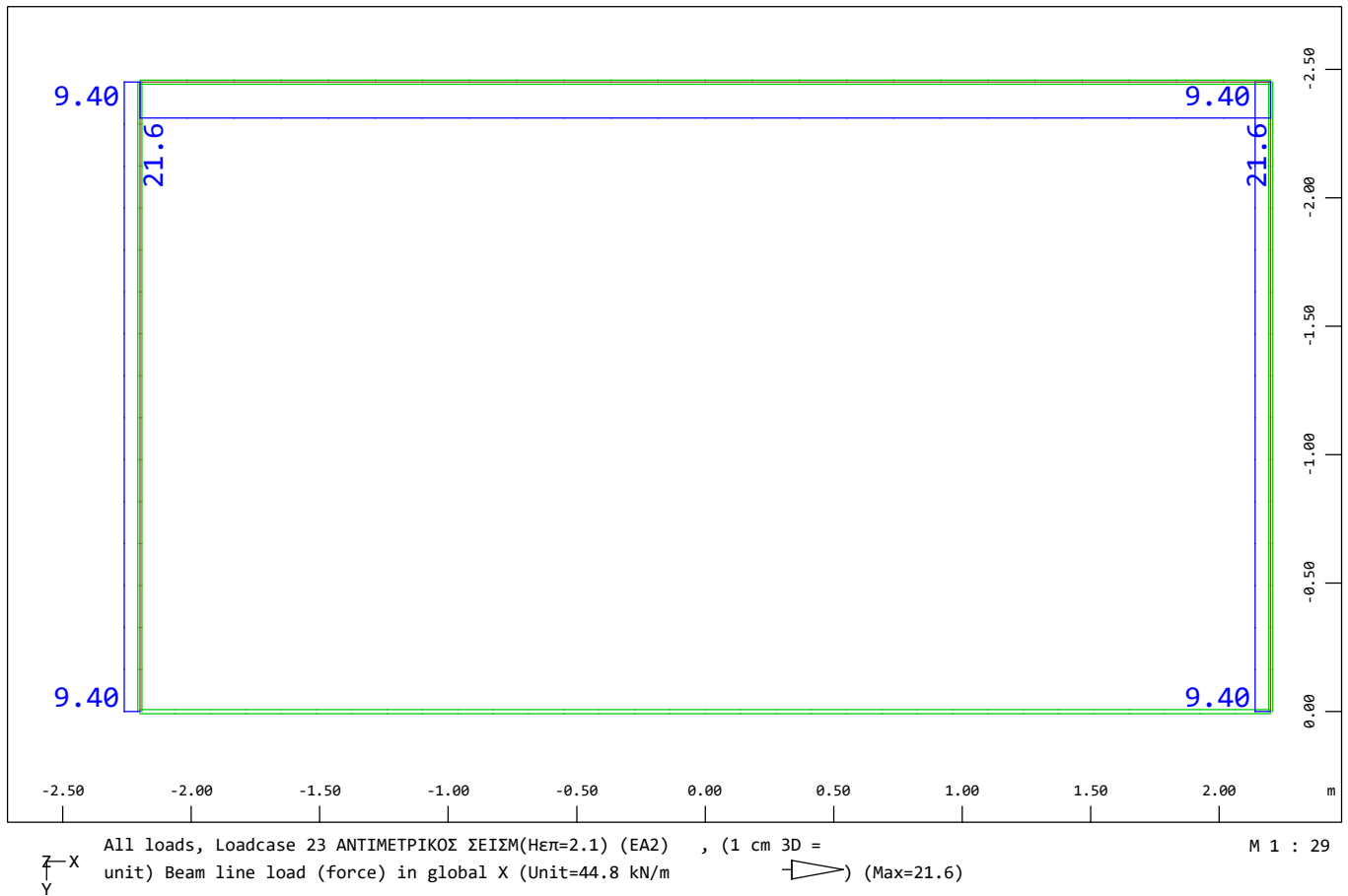
M 1 : 34



All loads, Loadcase 22 ΚΙΝΗΤΑ (Heπ.=2.1) (Q2), (1 cm 3D = unit) Beam line load (force)
in local z (Unit=22.4 kN/m, Min=-7.97 Max=-7.97)
(Unit=22.4 kN/m, Max=15.9)

M 1 : 33

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΣΥΝΔΥΑΣΜΟΙ ΦΟΡΤΙΣΕΩΝ ΣΧΕΔΙΑΣΜΟΥ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	100	1.35G+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Load Case	101	1.35(G+R1)+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	102	G+1.35R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	103	1.35G+R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Load Case	104	1.35(G+R1)+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	105	G+1.35R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	106	1.35G+R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Load Case	107	1.35(G+R1)+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500
Load Case	108	G+1.35R1+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 109 1.35G+R1+C+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500

Load Case 110 1.35(G+R1)+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500

Load Case 111 G+1.35R1+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500

Load Case 112 1.35G+R1+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500

Load Case 113 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 114 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 115 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 117 G+1.35R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 118 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 119 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 120 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 121 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 122 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 123 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 124 $1.35G+R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 125 $1.35(G+R1)+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 126 $G+1.35R1+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 127 $1.35G+R1+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 128 $1.35(G+R1)+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 129 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 130 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 6 with factor 0.750

Load Case 131 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 132 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 133 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 134 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 135 G+1.35R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 136 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 138 G+1.35R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 139 1.35G+R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 141 G+1.35R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 142 1.35G+R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 143 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 144 $G+1.35R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 145 $1.35G+R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 146 $1.35(G+R_1)+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 147 $G+1.35R_1+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 148 $1.35G+R_1+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 149 $1.35(G+R_1)+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 6 with factor 1.500

Load Case 150 $G+1.35R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 6 with factor 1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	151	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	153	G+1.35R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	154	1.35G+R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	155	1.35(G+R1)+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	156	G+1.35R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	157	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	158	1.35(G+R1)+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	159	G+1.35R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	160	1.35G+R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	161	1.35(G+R1)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	162	G+1.35R1+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	163	1.35G+R1+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	164	1.35(G+R1)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 165 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 5 with factor 1.500

Load Case 166 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 5 with factor 1.500

Load Case 167 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 168 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 169 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 6 with factor 1.500

Load Case 170 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 171 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 172 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	172	1.35G+R1+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	
Load Case	201	1.35(G+R2)+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	202	G+1.35R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	203	1.35G+R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	204	1.35(G+R2)+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	205	G+1.35R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	206	1.35G+R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	207	1.35(G+R2)+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Load Case	208	G+1.35R2+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 209 1.35G+R2+C+1.5Q2

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	22 with factor	1.500

Load Case 210 1.35(G+R2)+C+1.2W+1.5Q2

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	22 with factor	1.500

Load Case 211 G+1.35R2+C+1.2W+1.5Q2

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	22 with factor	1.500

Load Case 212 1.35G+R2+C+1.2W+1.5Q2

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	22 with factor	1.500

Load Case 213 1.35(G+R2)+C+1.5Q2+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	22 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 214 G+1.35R2+C+1.5Q2+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	22 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 215 1.35G+R2+C+1.5Q2+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	22 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 217 G+1.35R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 218 1.35G+R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 219 1.35(G+R2)+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 220 G+1.35R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 221 1.35G+R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 222 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	223	G+1.35R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case	224	1.35G+R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case	225	1.35(G+R2)+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	226	G+1.35R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	227	1.35G+R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	229	G+1.35R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 230 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 231 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 232 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 233 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 234 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 235 G+1.35R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 236 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	237	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	238	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	239	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	241	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	242	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		4 with factor	1.500

Load Case	243	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 244 $G+1.35R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 245 $1.35G+R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 246 $1.35(G+R_2)+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 247 $G+1.35R_2+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 248 $1.35G+R_2+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 249 $1.35(G+R_2)+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case 250 $G+1.35R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	251	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	253	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	254	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	255	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	256	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	257	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	259	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	260	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	261	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	262	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	263	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	264	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	265	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		5 with factor	1.500

Load Case	266	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		5 with factor	1.500

Load Case	267	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		6 with factor	1.500

Load Case	268	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		6 with factor	1.500

Load Case	269	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		6 with factor	1.500

Load Case	270	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		7 with factor	1.500

Load Case	271	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		7 with factor	1.500

Load Case	272	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	272	1.35G+R2+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311 $G+C+R1+0.2(W+Q1)+EA1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 13 with factor 1.000

Load Case 312 $G+C+R1+0.2(W+Q1)-EA1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 13 with factor -1.000

Load Case 313 $G+C+R1+0.2(W+Q1)+ES1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 14 with factor 1.000

Load Case 321 $G+C+R2+0.2(W+Q2)+EA2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 23 with factor 1.000

Load Case 322 $G+C+R2+0.2(W+Q2)-EA2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 23 with factor -1.000

Load Case 323 $G+C+R2+0.2(W+Q2)+ES2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 24 with factor 1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Load Case 411 G+C+R1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 412 G+C+R1+W				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 413 G+C+R1+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 414 G+C+R1+W+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 415 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case 416 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case 417 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case 418 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case	418 G+C+R1+T			
Selected loads	copied from load case	7 with factor	1.000	
Load Case	421 G+C+R2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	422 G+C+R2+W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	423 G+C+R2+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	424 G+C+R2+W+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	425 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case	426 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case	427 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case	428 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Analysis parameters

Calculation with nonlinear material properties

Nonlinear material properties are used for:

Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding

Only linear material properties are used for:

QUAD- and BRIQ-elements

Truss-, cable-, Beam-, pile- und boundaryelements

Beamelements

Considered Load Cases

Loadcase	Σ(Reactions)		Designation
	X[kN]	Y[kN]	
100	-0.00	-199.79	1.35G+C
101	0.00	-331.66	1.35(G+R1)+C
102	0.00	-279.83	G+1.35R1+C
103	0.00	-297.47	1.35G+R1+C
104	0.00	-437.26	1.35(G+R1)+C+1.2W
105	0.00	-385.43	G+1.35R1+C+1.2W
106	0.00	-403.07	1.35G+R1+C+1.2W
107	0.00	-524.08	1.35(G+R1)+C+1.5Q1
108	0.00	-472.26	G+1.35R1+C+1.5Q1
109	0.00	-489.89	1.35G+R1+C+1.5Q1
110	0.00	-629.68	1.35(G+R1)+C+1.2W+1.5Q1
111	0.00	-577.86	G+1.35R1+C+1.2W+1.5Q1
112	0.00	-595.49	1.35G+R1+C+1.2W+1.5Q1
113	0.00	-524.09	1.35(G+R1)+C+1.5Q1+0.75T
114	0.00	-472.29	G+1.35R1+C+1.5Q1+0.75T
115	0.00	-489.90	1.35G+R1+C+1.5Q1+0.75T
116	0.00	-629.69	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	0.00	-577.89	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	0.00	-595.50	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	0.00	-524.26	1.35(G+R1)+C+1.5Q1+0.75T
120	0.00	-472.26	G+1.35R1+C+1.5Q1+0.75T
121	0.00	-490.08	1.35G+R1+C+1.5Q1+0.75T
122	0.00	-629.86	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	0.00	-577.86	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	0.00	-595.68	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	0.00	-524.08	1.35(G+R1)+C+1.5Q1+0.75T
126	0.00	-472.26	G+1.35R1+C+1.5Q1+0.75T
127	0.00	-489.89	1.35G+R1+C+1.5Q1+0.75T
128	0.00	-629.68	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	0.00	-577.85	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	0.00	-595.49	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	0.00	-524.08	1.35(G+R1)+C+1.5Q1+0.75T
132	0.00	-472.26	G+1.35R1+C+1.5Q1+0.75T
133	0.00	-489.89	1.35G+R1+C+1.5Q1+0.75T
134	0.00	-629.68	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	0.00	-577.86	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	0.00	-595.49	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	0.00	-447.11	1.35(G+R1)+C+0.9Q1+1.5T
138	0.00	-395.29	G+1.35R1+C+0.9Q1+1.5T
139	0.00	-412.92	1.35G+R1+C+0.9Q1+1.5T
140	0.00	-552.71	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	0.00	-500.89	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	0.00	-518.52	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	0.00	-447.05	1.35(G+R1)+C+0.9Q1+1.5T
144	0.00	-395.29	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

145	0.00	-412.86	1.35G+R1+C+0.9Q1+1.5T
146	0.00	-552.65	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	0.00	-500.89	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	0.00	-518.46	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	0.00	-447.11	1.35(G+R1)+C+0.9Q1+1.5T
150	0.00	-395.29	G+1.35R1+C+0.9Q1+1.5T
151	0.00	-412.92	1.35G+R1+C+0.9Q1+1.5T
152	0.00	-552.71	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	0.00	-500.89	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	0.00	-518.52	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	0.00	-447.11	1.35(G+R1)+C+0.9Q1+1.5T
156	0.00	-395.29	G+1.35R1+C+0.9Q1+1.5T
157	0.00	-412.92	1.35G+R1+C+0.9Q1+1.5T
158	0.00	-552.71	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	0.00	-500.89	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	0.00	-518.52	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	0.00	-437.26	1.35(G+R1)+C+1.2W+1.5T
162	0.00	-385.43	G+1.35R1+C+1.2W+1.5T
163	0.00	-403.07	1.35G+R1+C+1.2W+1.5T
164	0.00	-437.20	1.35(G+R1)+C+1.2W+1.5T
165	0.00	-385.43	G+1.35R1+C+1.2W+1.5T
166	0.00	-403.01	1.35G+R1+C+1.2W+1.5T
167	0.00	-437.26	1.35(G+R1)+C+1.2W+1.5T
168	0.00	-385.43	G+1.35R1+C+1.2W+1.5T
169	0.00	-403.07	1.35G+R1+C+1.2W+1.5T
170	0.00	-437.26	1.35(G+R1)+C+1.2W+1.5T
171	0.00	-385.43	G+1.35R1+C+1.2W+1.5T
172	0.00	-403.07	1.35G+R1+C+1.2W+1.5T
201	0.00	-438.58	1.35(G+R2)+C
202	0.00	-386.75	G+1.35R2+C
203	0.00	-376.67	1.35G+R2+C
204	0.00	-544.18	1.35(G+R2)+C+1.2W
205	0.00	-492.35	G+1.35R2+C+1.2W
206	0.00	-482.27	1.35G+R2+C+1.2W
207	0.00	-543.74	1.35(G+R2)+C+1.5Q2
208	0.00	-491.92	G+1.35R2+C+1.5Q2
209	0.00	-481.83	1.35G+R2+C+1.5Q2
210	0.00	-649.34	1.35(G+R2)+C+1.2W+1.5Q2
211	0.00	-597.52	G+1.35R2+C+1.2W+1.5Q2
212	0.00	-587.43	1.35G+R2+C+1.2W+1.5Q2
213	0.00	-543.75	1.35(G+R2)+C+1.5Q2+0.75T
214	0.00	-491.95	G+1.35R2+C+1.5Q2+0.75T
215	0.00	-481.84	1.35G+R2+C+1.5Q2+0.75T
216	0.00	-649.35	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	0.00	-597.55	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	0.00	-587.44	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	0.00	-543.93	1.35(G+R2)+C+1.5Q2+0.75T
220	0.00	-491.92	G+1.35R2+C+1.5Q2+0.75T
221	0.00	-482.02	1.35G+R2+C+1.5Q2+0.75T
222	0.00	-649.53	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	0.00	-597.52	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	0.00	-587.62	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	0.00	-543.74	1.35(G+R2)+C+1.5Q2+0.75T
226	0.00	-491.92	G+1.35R2+C+1.5Q2+0.75T
227	0.00	-481.83	1.35G+R2+C+1.5Q2+0.75T
228	0.00	-649.34	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	0.00	-597.52	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	0.00	-587.43	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	0.00	-543.74	1.35(G+R2)+C+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

232	0.00	-491.92	G+1.35R2+C+1.5Q2+0.75T
233	0.00	-481.83	1.35G+R2+C+1.5Q2+0.75T
234	0.00	-649.34	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	0.00	-597.52	G+1.35R2+C+1.2W+1.5Q2+0.75T
236	0.00	-587.43	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	0.00	-501.68	1.35(G+R2)+C+0.9Q2+1.5T
238	0.00	-449.85	G+1.35R2+C+0.9Q2+1.5T
239	0.00	-439.77	1.35G+R2+C+0.9Q2+1.5T
240	0.00	-607.28	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	0.00	-555.45	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	0.00	-545.37	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	0.00	-501.62	1.35(G+R2)+C+0.9Q2+1.5T
244	0.00	-449.85	G+1.35R2+C+0.9Q2+1.5T
245	0.00	-439.71	1.35G+R2+C+0.9Q2+1.5T
246	0.00	-607.22	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	0.00	-555.45	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	0.00	-545.31	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	0.00	-501.68	1.35(G+R2)+C+0.9Q2+1.5T
250	0.00	-449.85	G+1.35R2+C+0.9Q2+1.5T
251	0.00	-439.77	1.35G+R2+C+0.9Q2+1.5T
252	0.00	-607.28	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	0.00	-555.45	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	0.00	-545.37	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	0.00	-501.68	1.35(G+R2)+C+0.9Q2+1.5T
256	0.00	-449.85	G+1.35R2+C+0.9Q2+1.5T
257	0.00	-439.77	1.35G+R2+C+0.9Q2+1.5T
258	0.00	-607.28	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	0.00	-555.45	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	0.00	-545.37	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	0.00	-544.18	1.35(G+R2)+C+1.2W+1.5T
262	0.00	-492.35	G+1.35R2+C+1.2W+1.5T
263	0.00	-482.27	1.35G+R2+C+1.2W+1.5T
264	0.00	-544.12	1.35(G+R2)+C+1.2W+1.5T
265	0.00	-492.35	G+1.35R2+C+1.2W+1.5T
266	0.00	-482.21	1.35G+R2+C+1.2W+1.5T
267	0.00	-544.18	1.35(G+R2)+C+1.2W+1.5T
268	0.00	-492.35	G+1.35R2+C+1.2W+1.5T
269	0.00	-482.27	1.35G+R2+C+1.2W+1.5T
270	0.00	-544.18	1.35(G+R2)+C+1.2W+1.5T
271	0.00	-492.35	G+1.35R2+C+1.2W+1.5T
272	0.00	-482.27	1.35G+R2+C+1.2W+1.5T
311	-111.39	-288.90	G+C+R1+0.2(W+Q1)+EA1
312	111.39	-288.90	G+C+R1+0.2(W+Q1)-EA1
313	0.00	-288.90	G+C+R1+0.2(W+Q1)+ES1
321	-141.06	-356.47	G+C+R2+0.2(W+Q2)+EA2
322	141.06	-356.47	G+C+R2+0.2(W+Q2)-EA2
323	0.00	-356.47	G+C+R2+0.2(W+Q2)+ES2
400	-0.00	-147.97	G+C
411	0.00	-245.65	G+C+R1
412	0.00	-333.65	G+C+R1+W
413	0.00	-373.93	G+C+R1+Q1
414	0.00	-461.93	G+C+R1+W+Q1
415	0.00	-245.68	G+C+R1+T
416	0.00	-245.65	G+C+R1+T
417	0.00	-245.65	G+C+R1+T
418	0.00	-245.65	G+C+R1+T
421	0.00	-324.85	G+C+R2
422	0.00	-412.85	G+C+R2+W
423	0.00	-394.95	G+C+R2+Q2

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

424	0.00	-482.95	G+C+R2+W+Q2
425	0.00	-324.88	G+C+R2+T
426	0.00	-324.85	G+C+R2+T
427	0.00	-324.85	G+C+R2+T
428	0.00	-324.85	G+C+R2+T

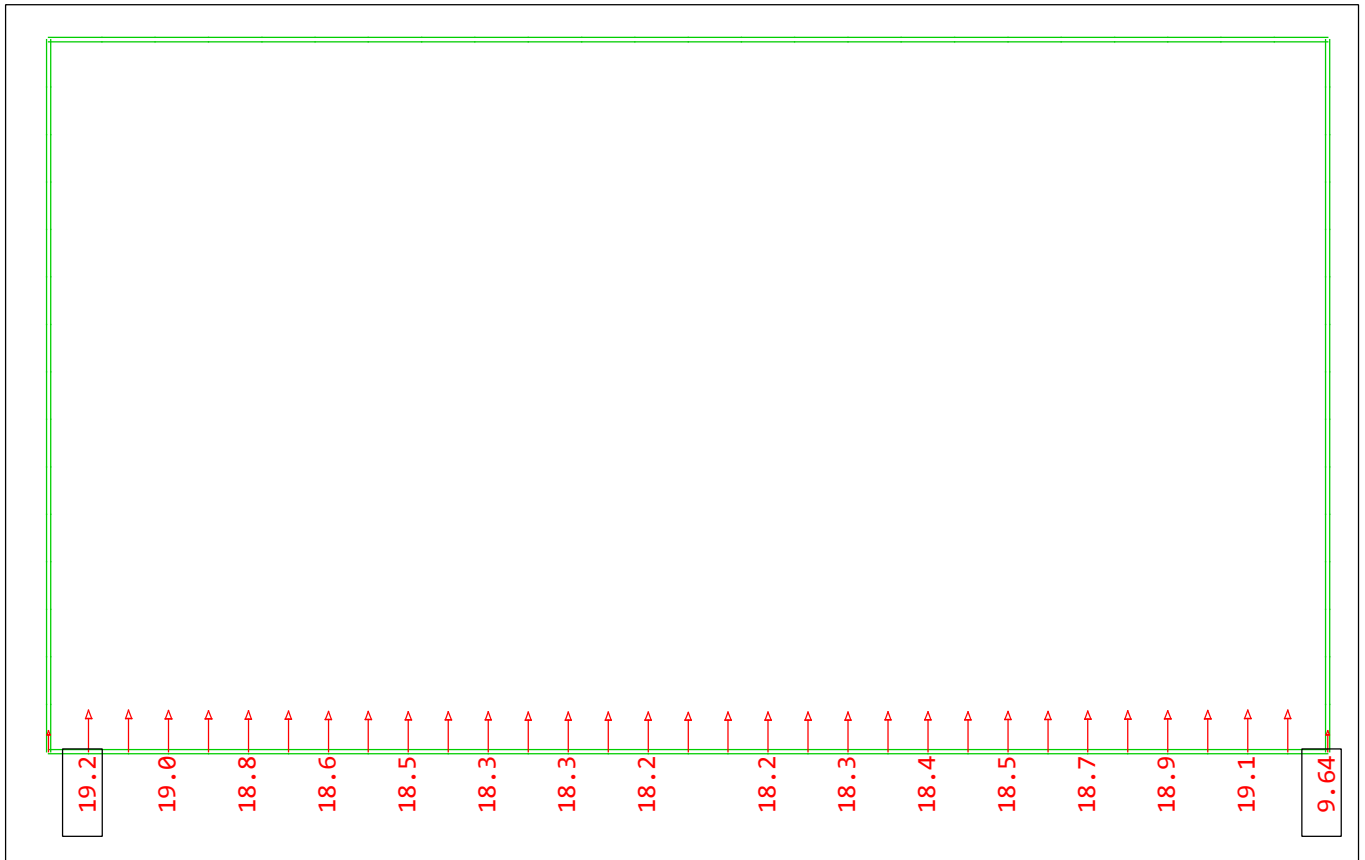
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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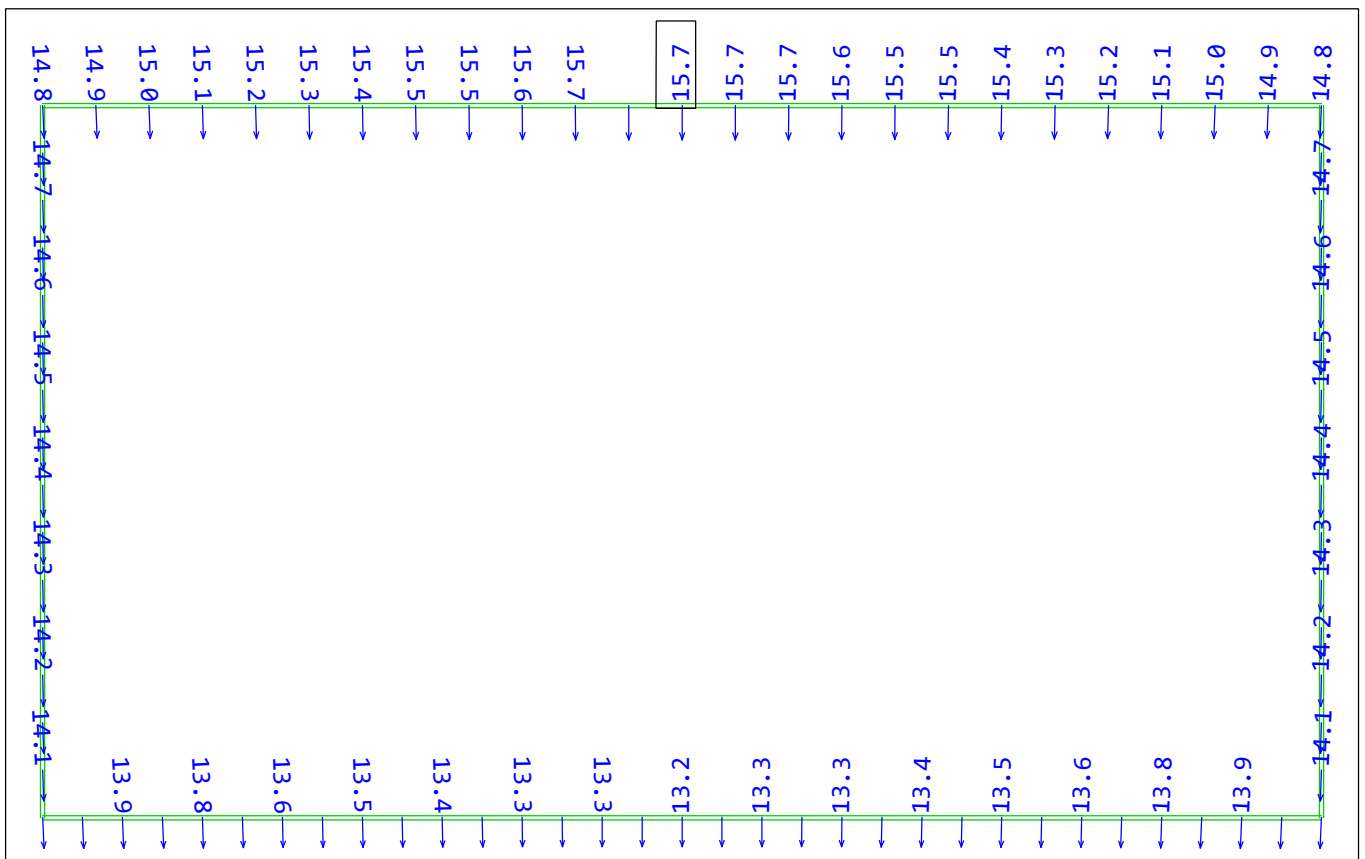
ΑΠΟΤΕΛΕΣΜΑΤΑ ΜΗ-ΓΡΑΜΜΙΚΗΣ ΕΠΙΛΥΣΗΣ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ:124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

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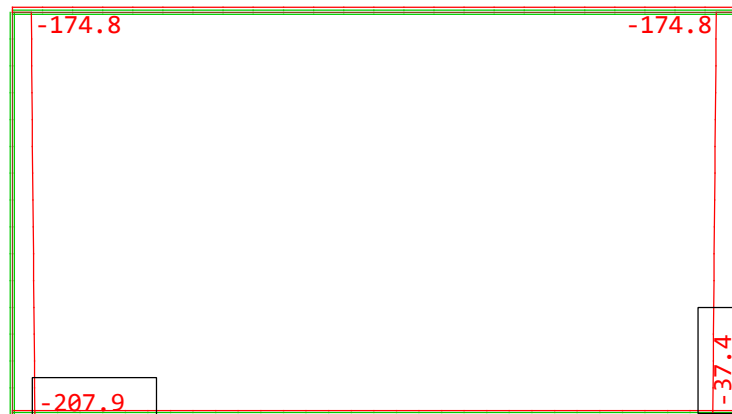


Spring force, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D = 34.8 kN
(Min=-19.2) (Max=0) (total: -595.7)

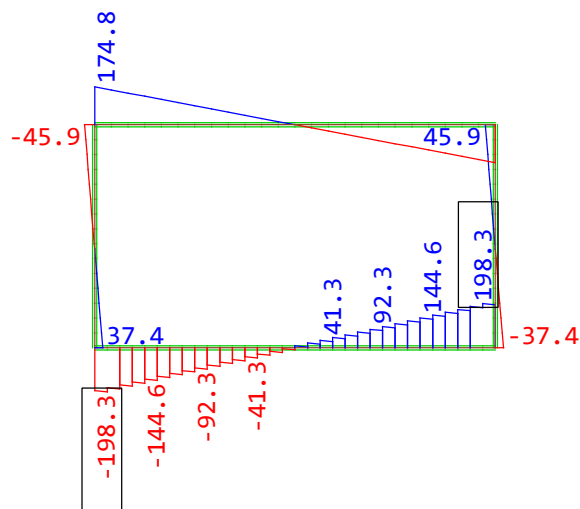


Nodal displacement vector, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D = 34.8 mm
(Max=15.7)

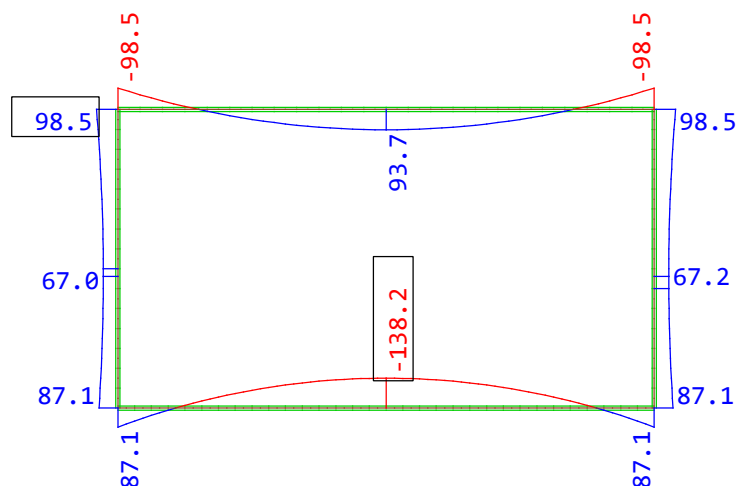
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ:124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
696.9 kN (Min=-207.9) (Max=-36.7)



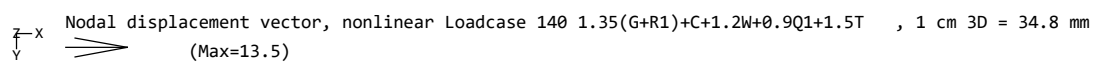
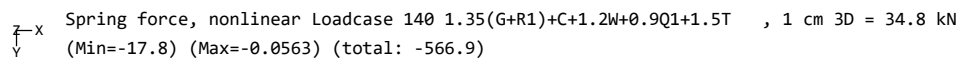
Beam Elements , Shear force Vz, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kN (Min=-203.9) (Max=203.9)



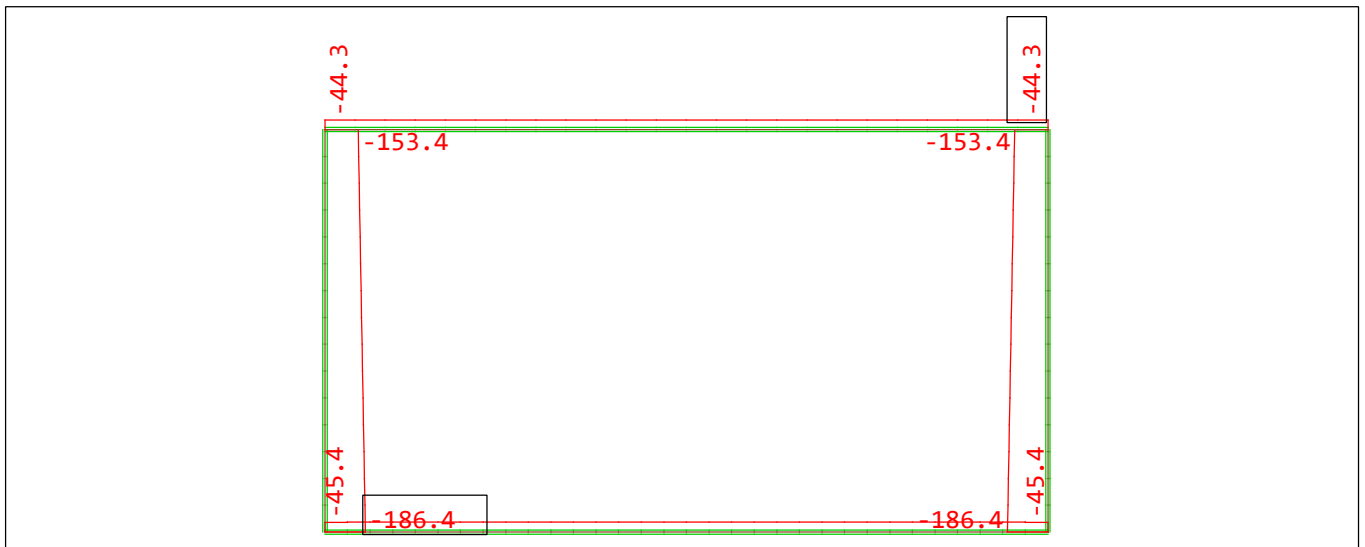
Beam Elements , Bending moment My, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kNm (Min=-138.2) (Max=98.5)

- ΑΓΩΓΟΣ Α1 -

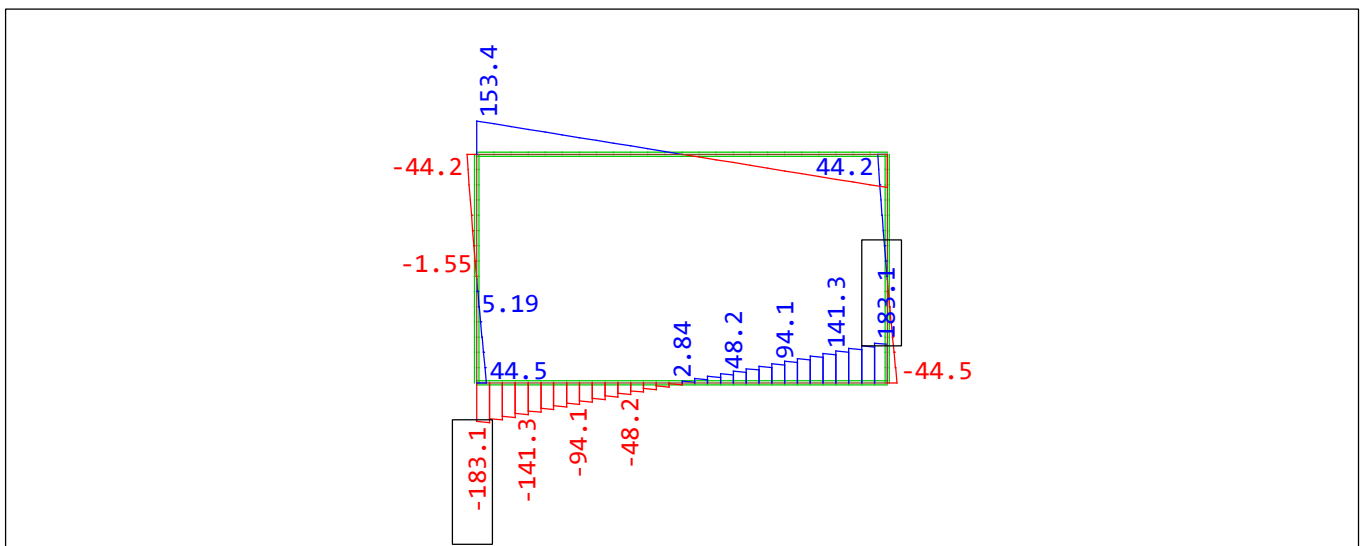
ΣΥΝΔΥΑΣΜΟΣ: $140 \cdot 1.35(G+R1)+C+1.2W+0.9Q1+1.5T$ / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



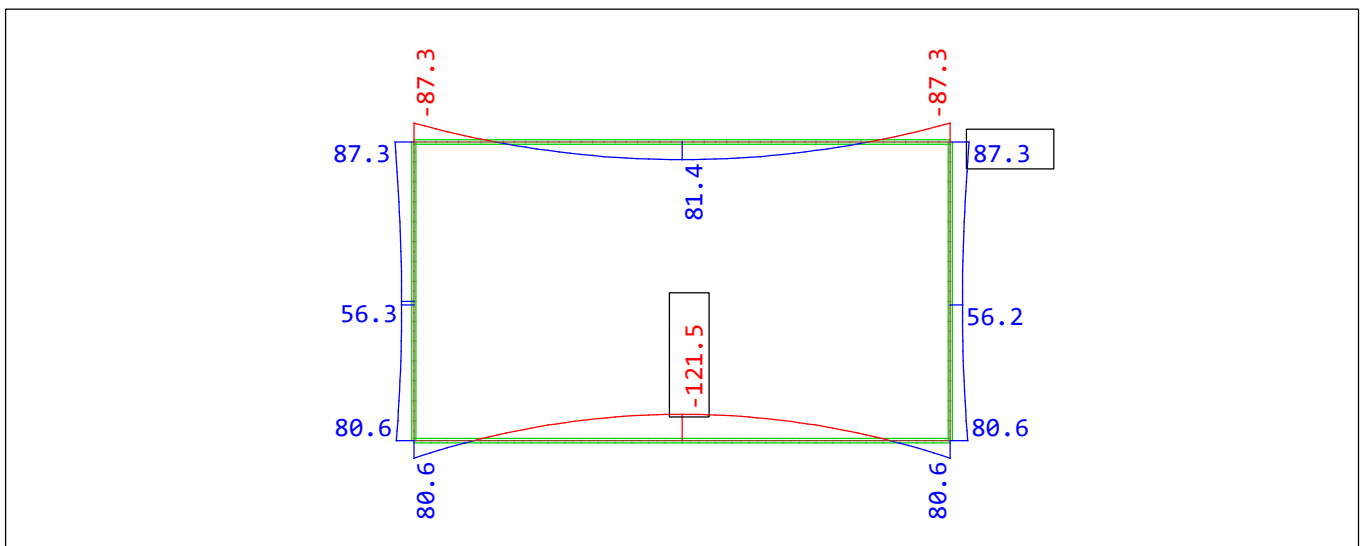
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
348.4 kN (Min=-186.4) (Max=-44.3)

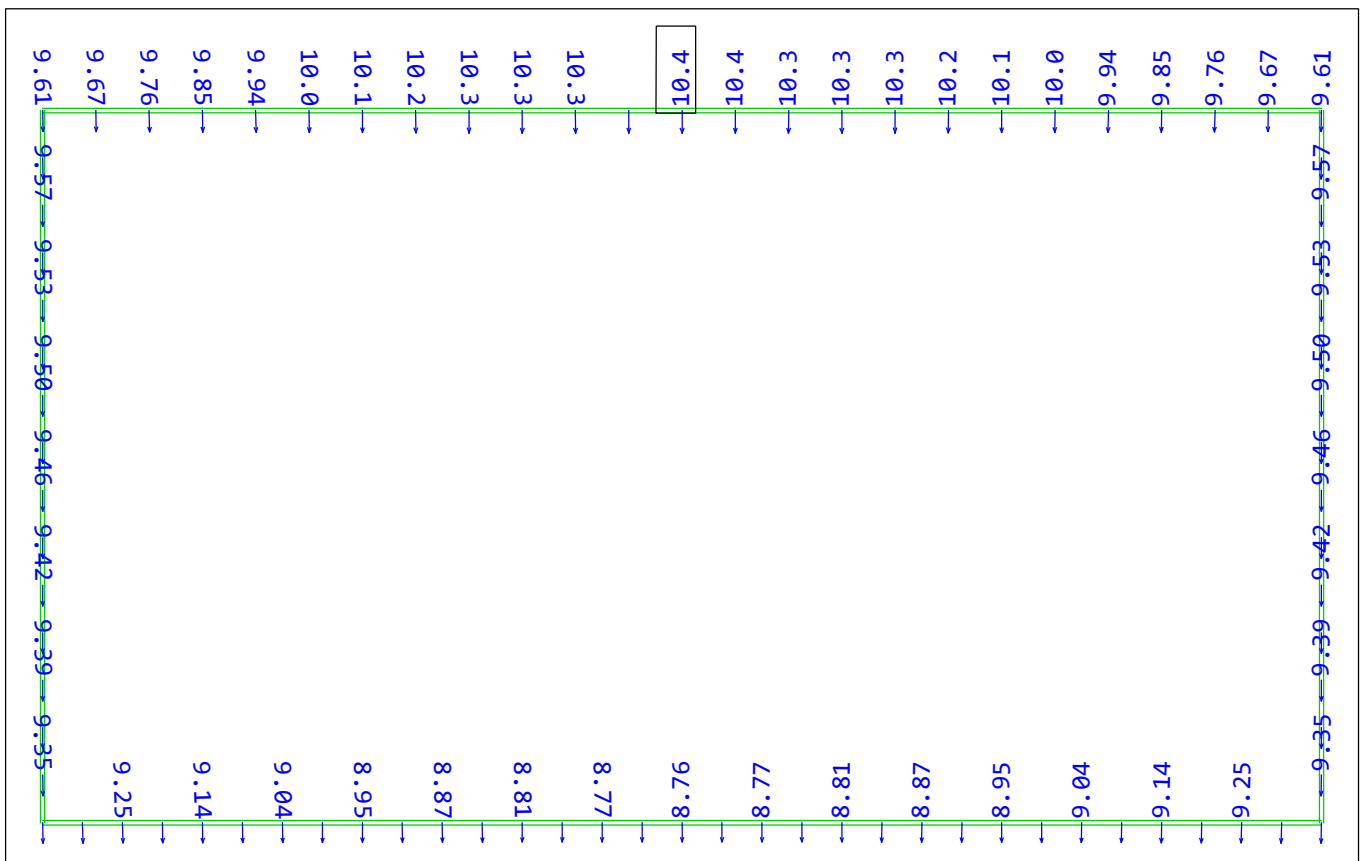
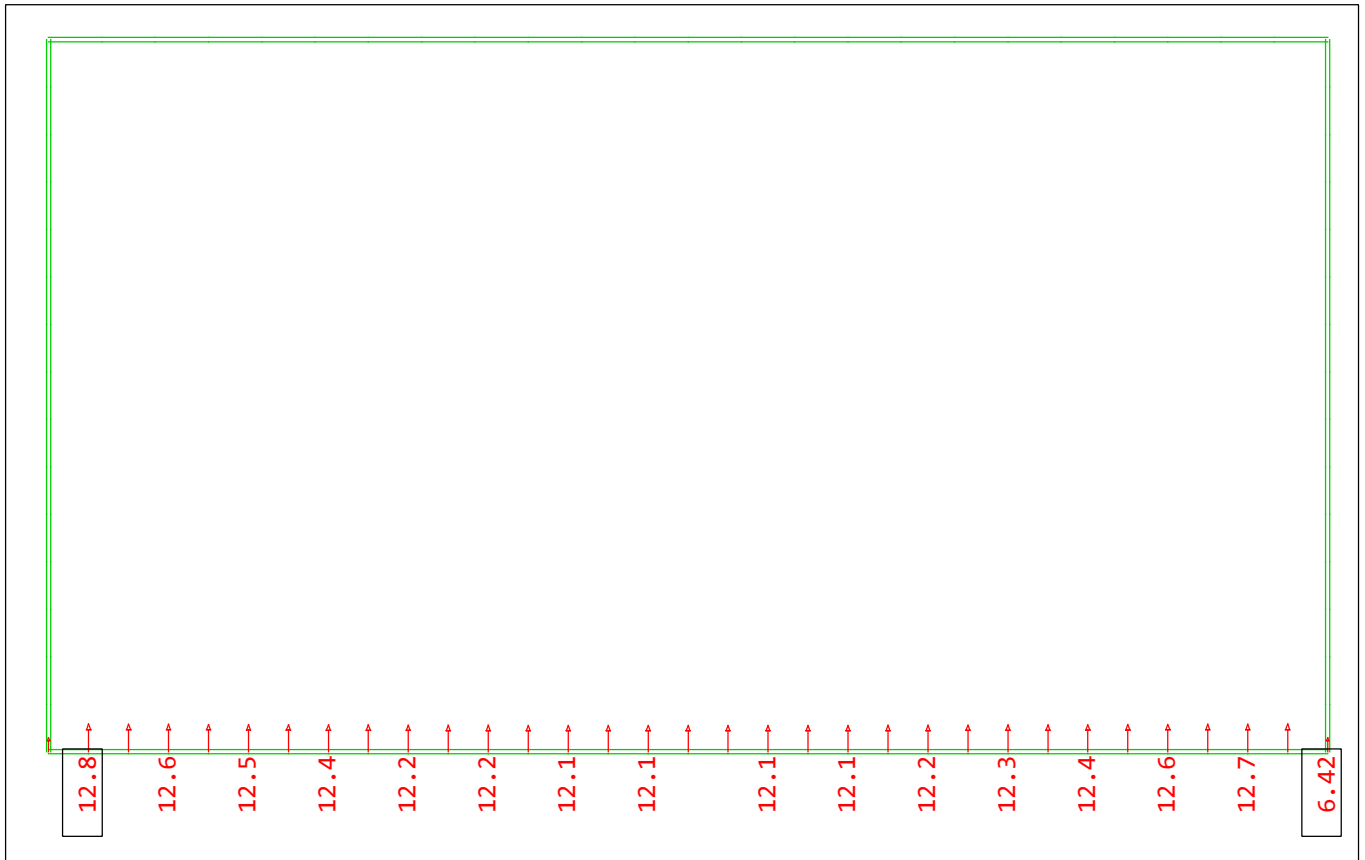


Beam Elements , Shear force Vz, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
348.4 kN (Min=-183.1) (Max=183.1)

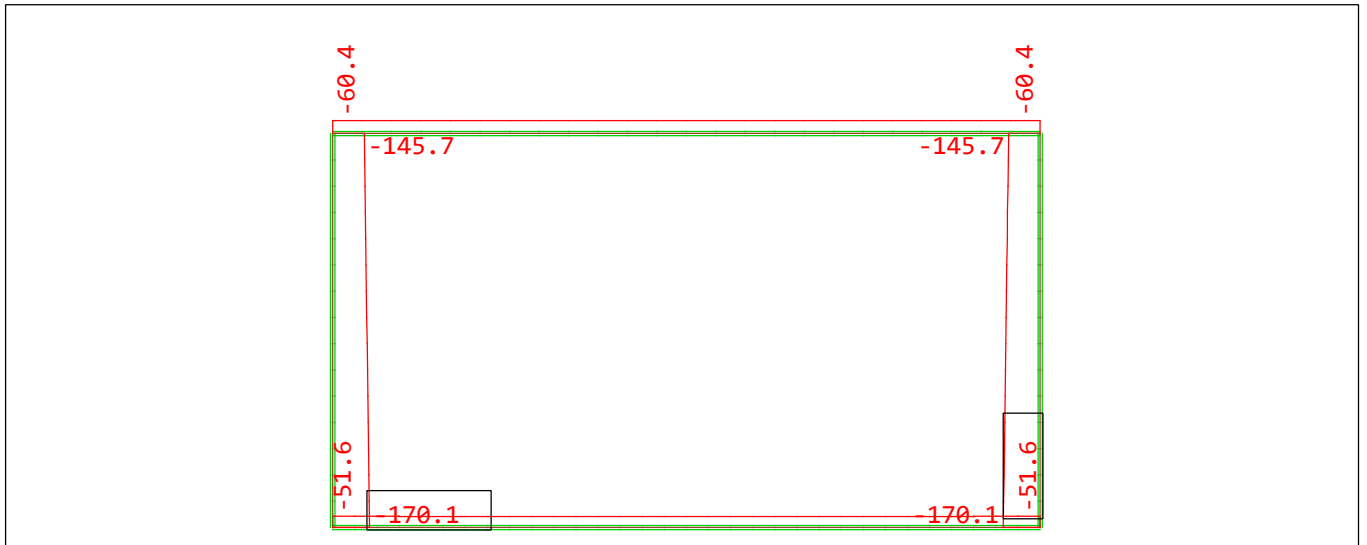


Beam Elements , Bending moment My, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
348.4 kNm (Min=-121.5) (Max=87.3)

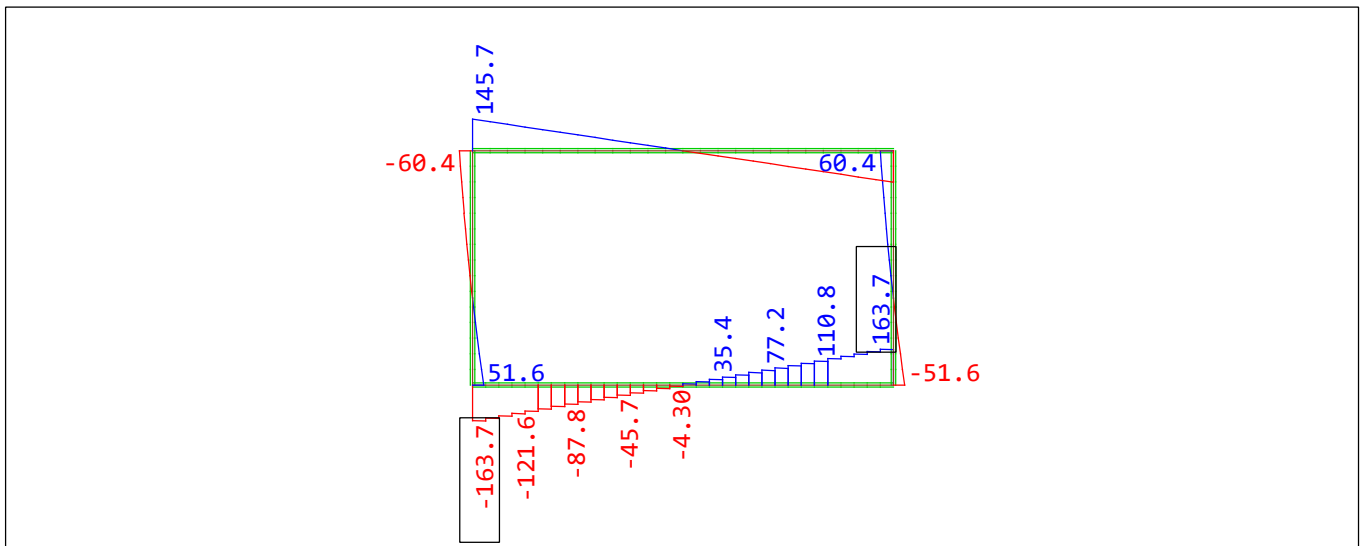
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 150 G+1.35R1+C+0.9Q1+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



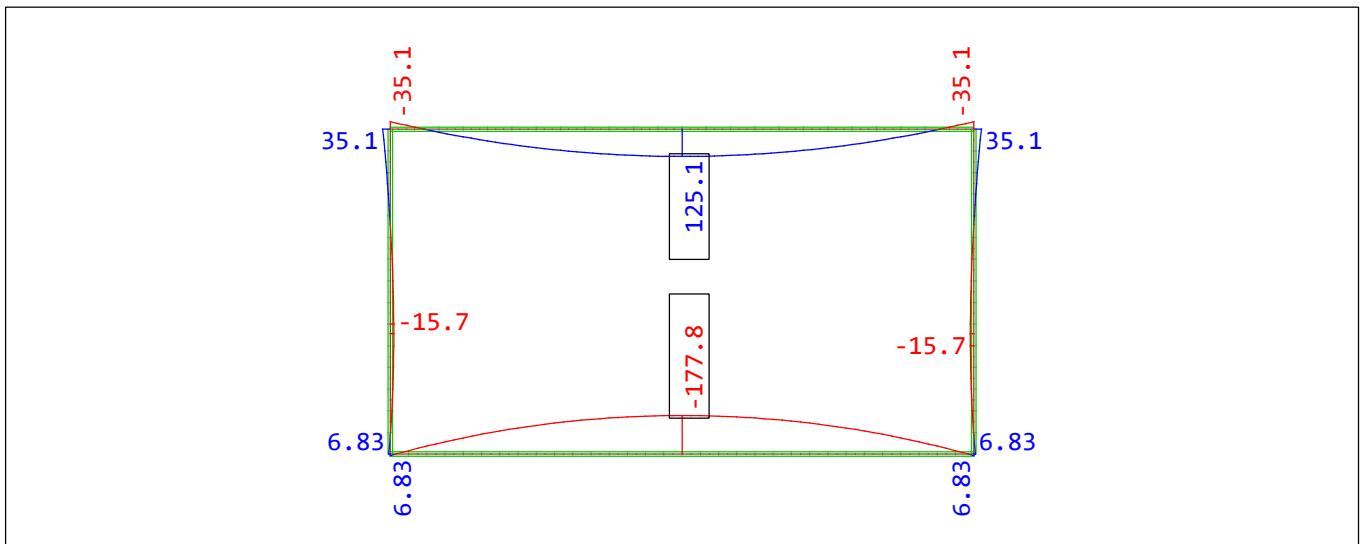
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 150 G+1.35R1+C+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-170.1) (Max=-51.4)

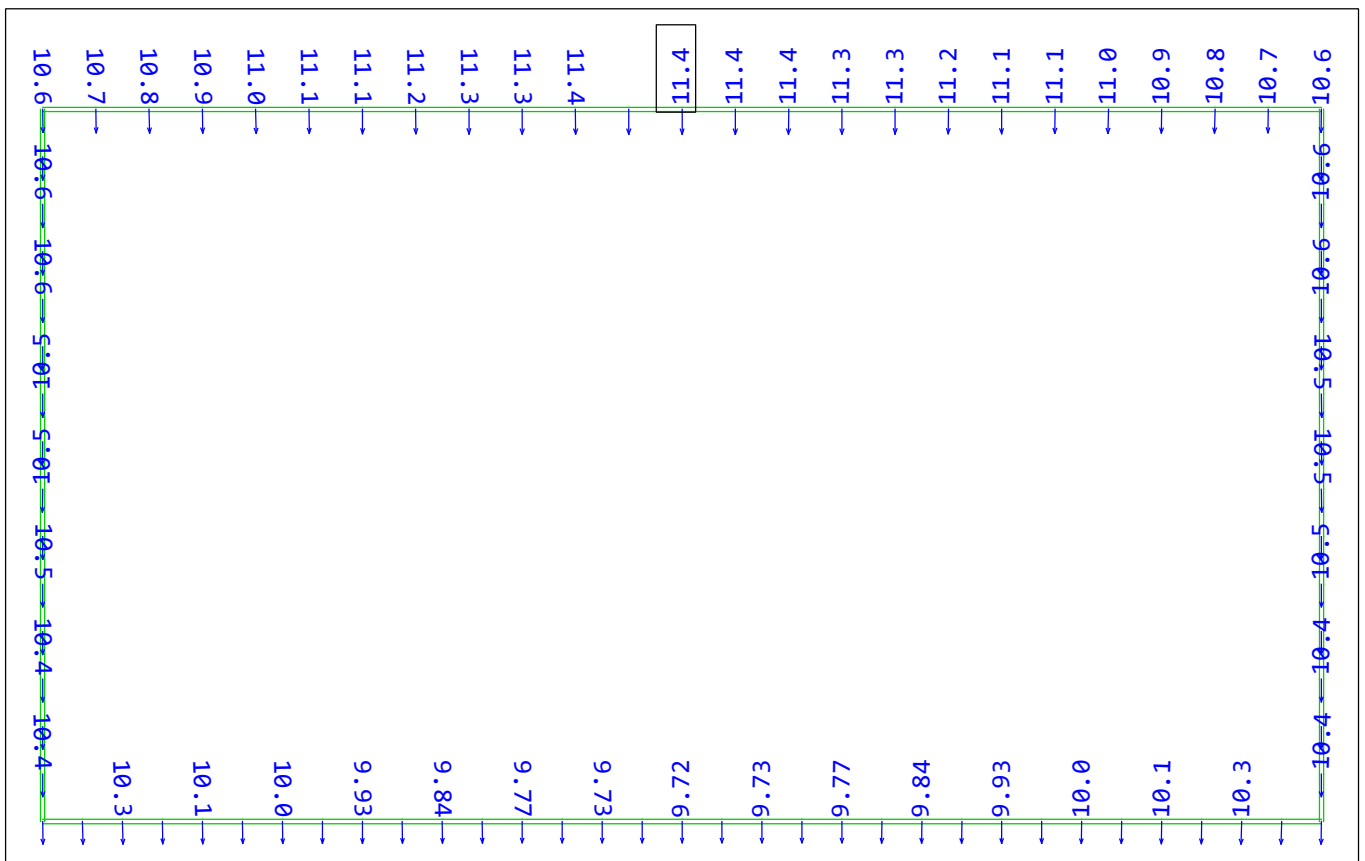
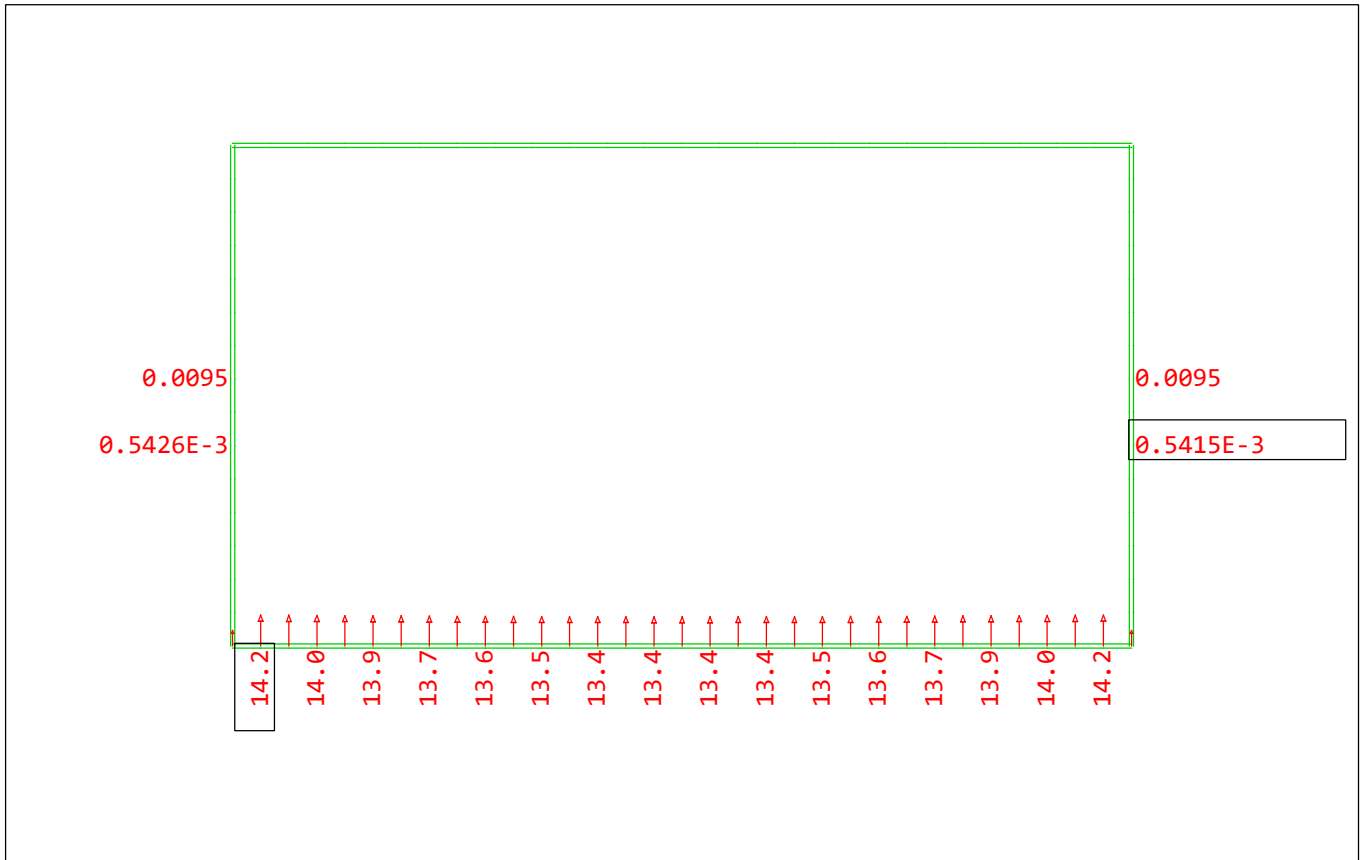


Beam Elements , Shear force Vz, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-165.4) (Max=165.4)

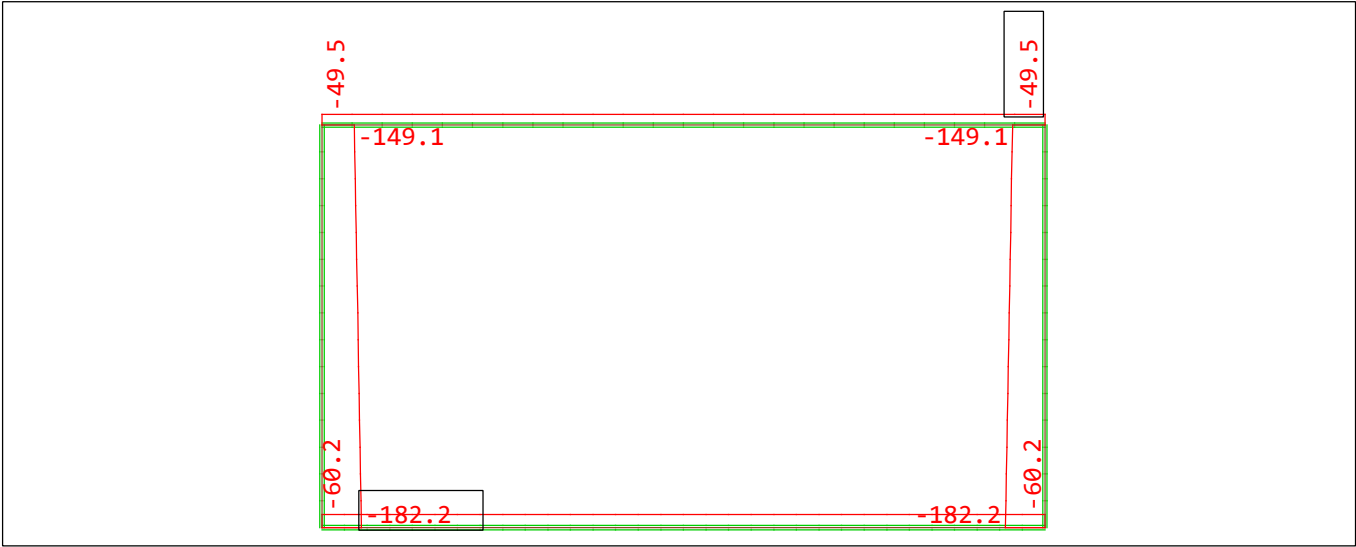


Beam Elements , Bending moment My, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kNm (Min=-177.8) (Max=125.1)

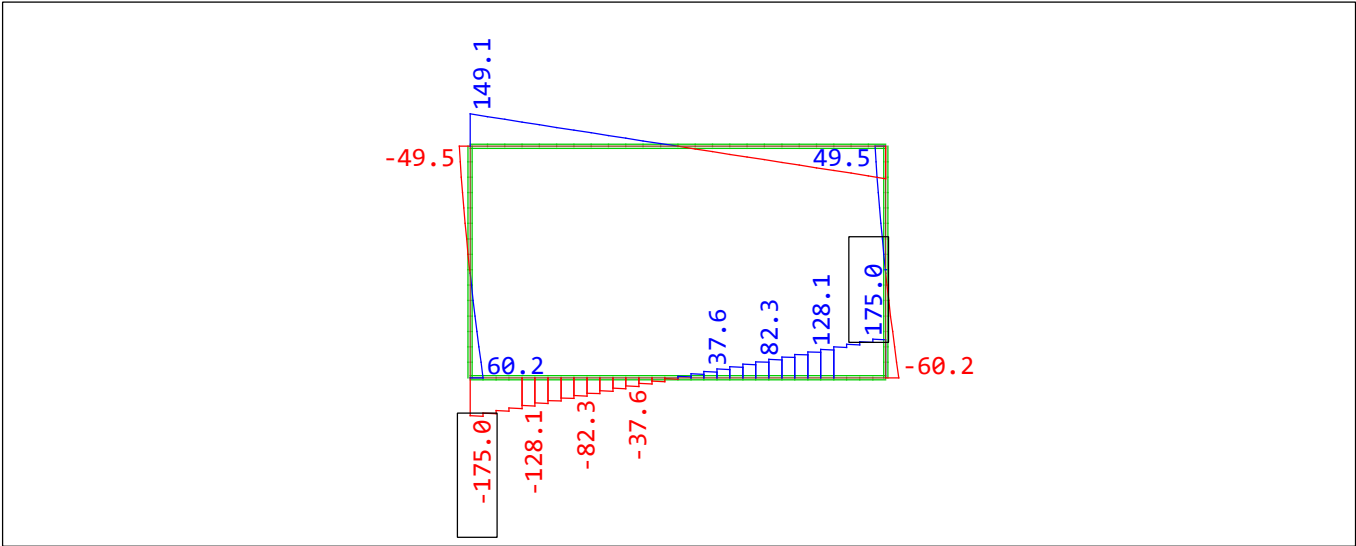
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



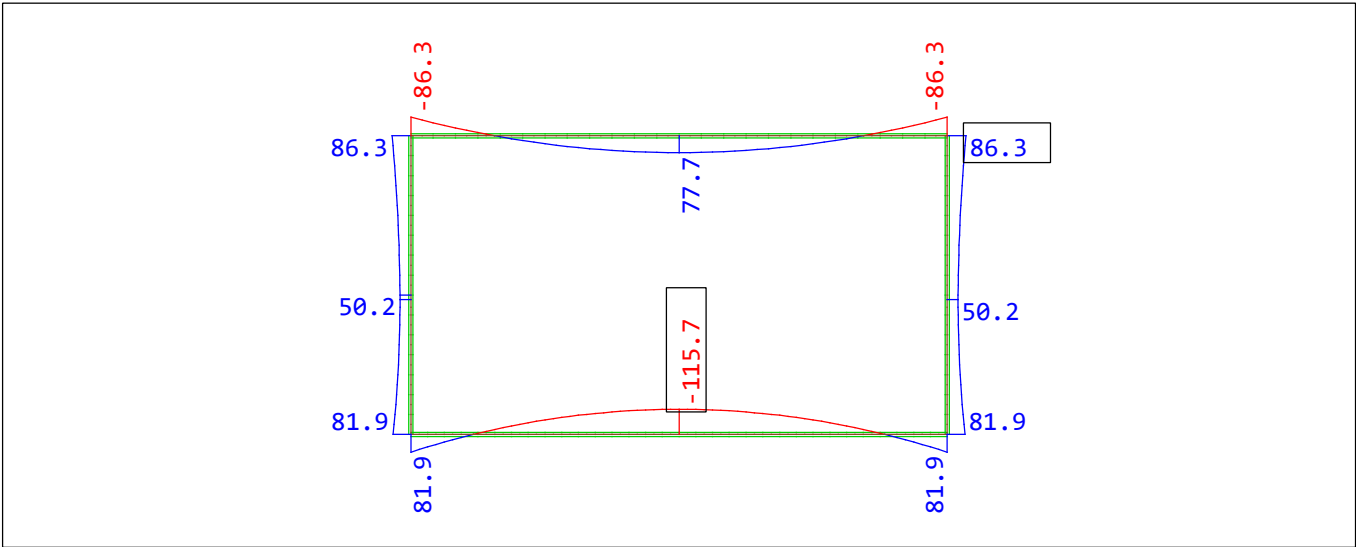
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
 (Min=-182.2) (Max=-49.5)

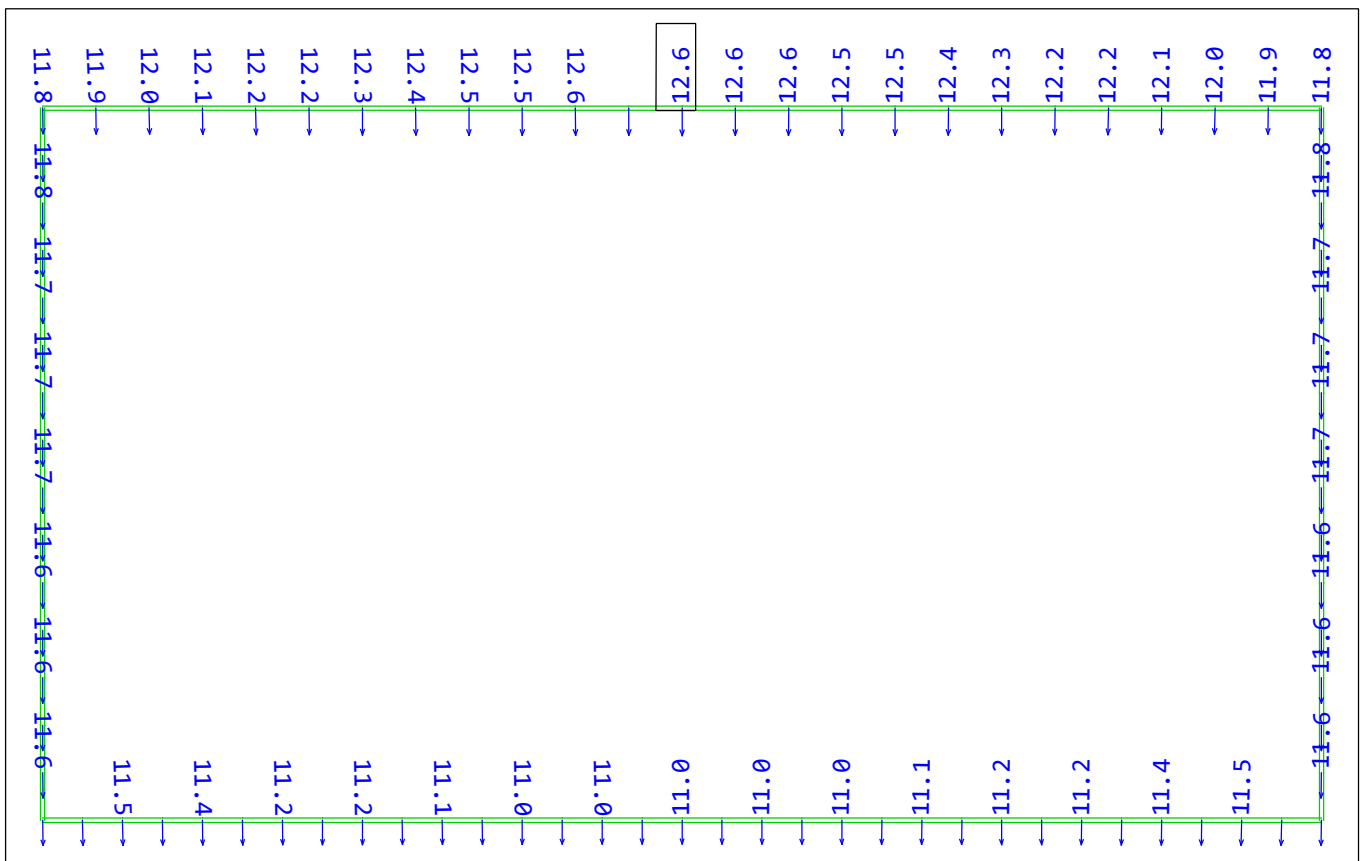
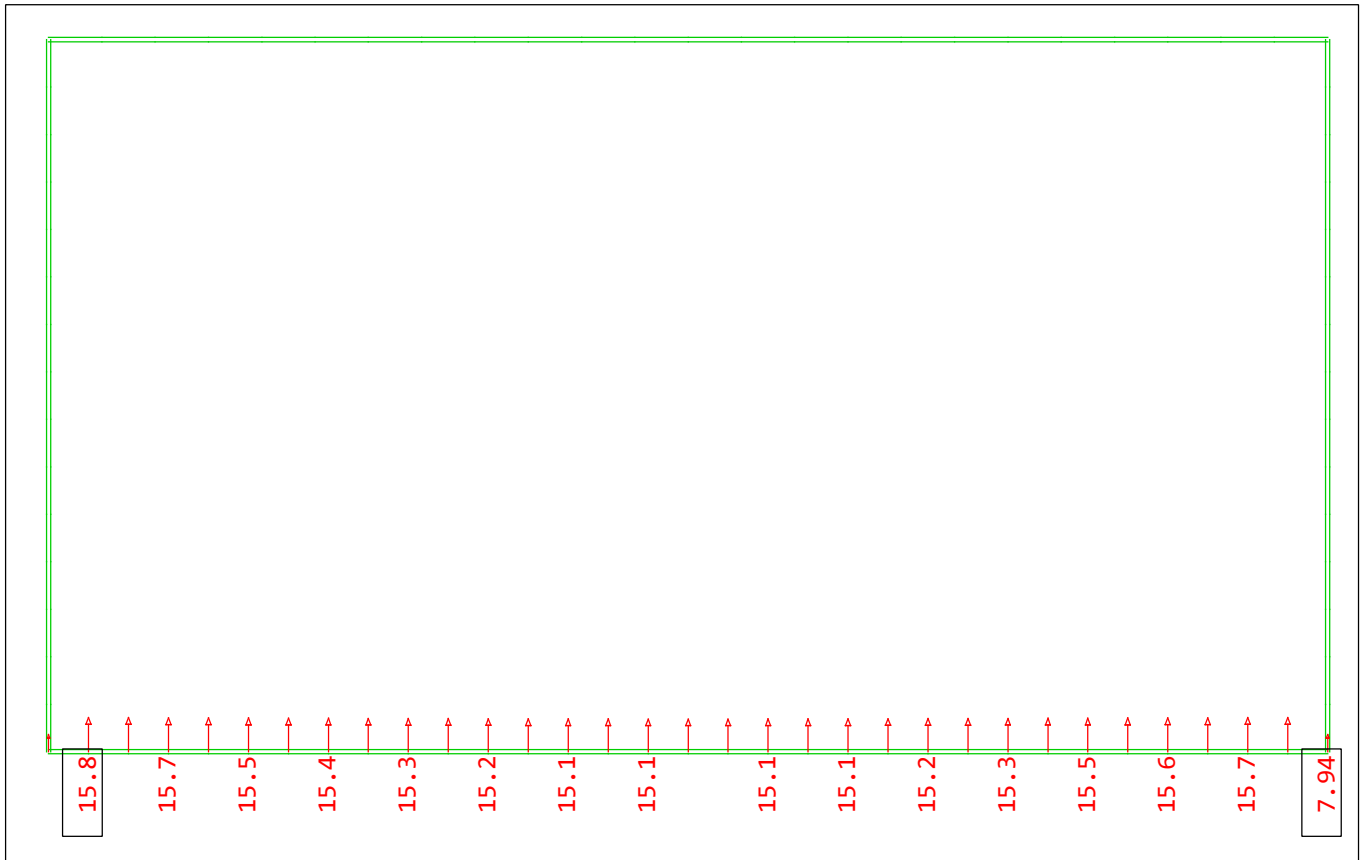


Beam Elements , Shear force Vz, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
 (Min=-177.4) (Max=177.4)

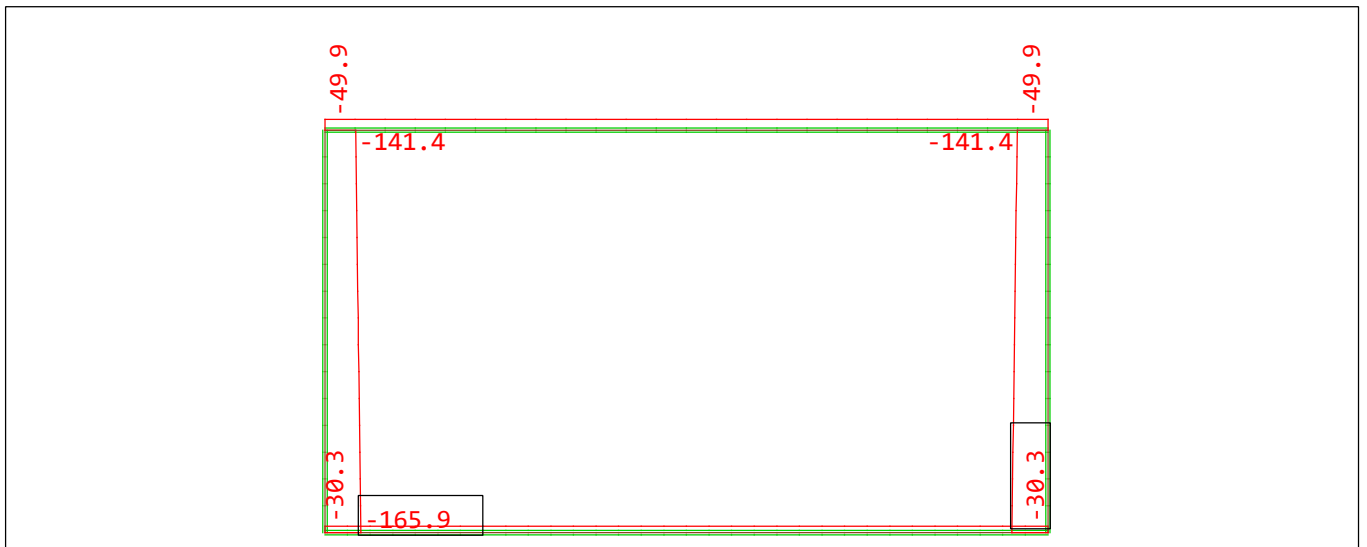


Beam Elements , Bending moment My, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kNm
 (Min=-115.7) (Max=86.3)

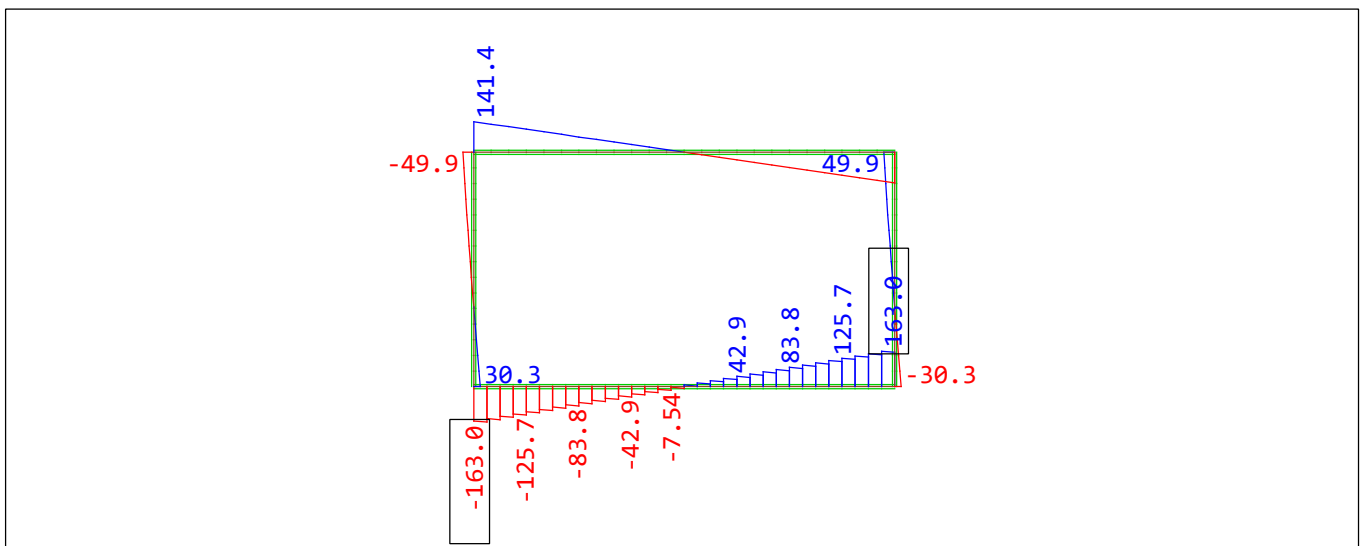
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



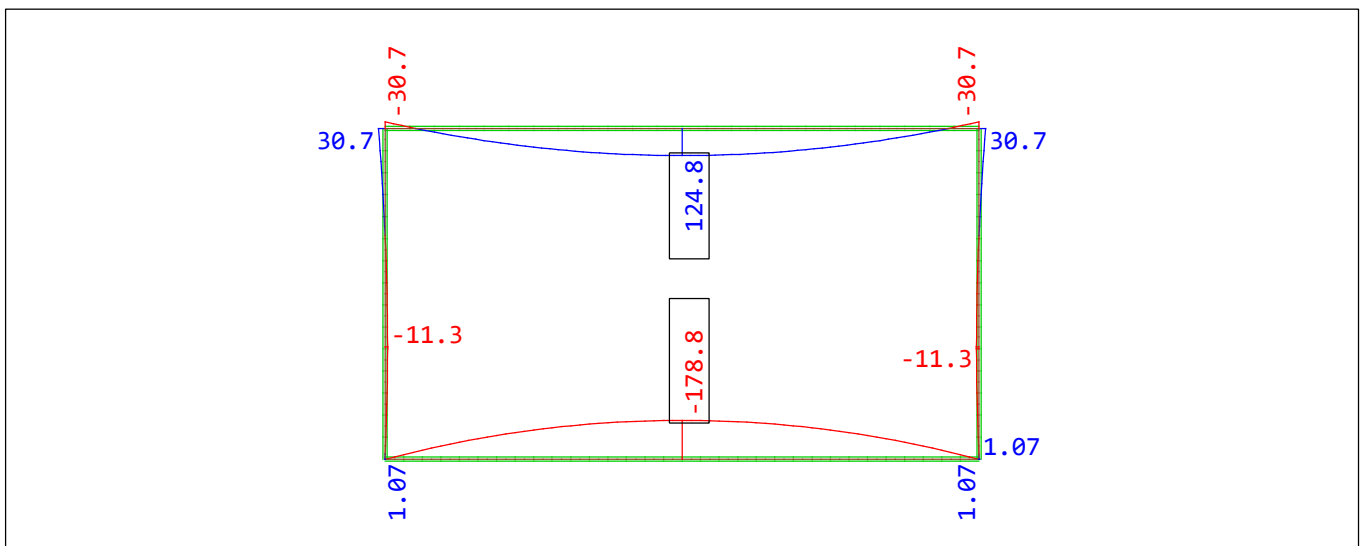
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-165.9) (Max=-30.1)

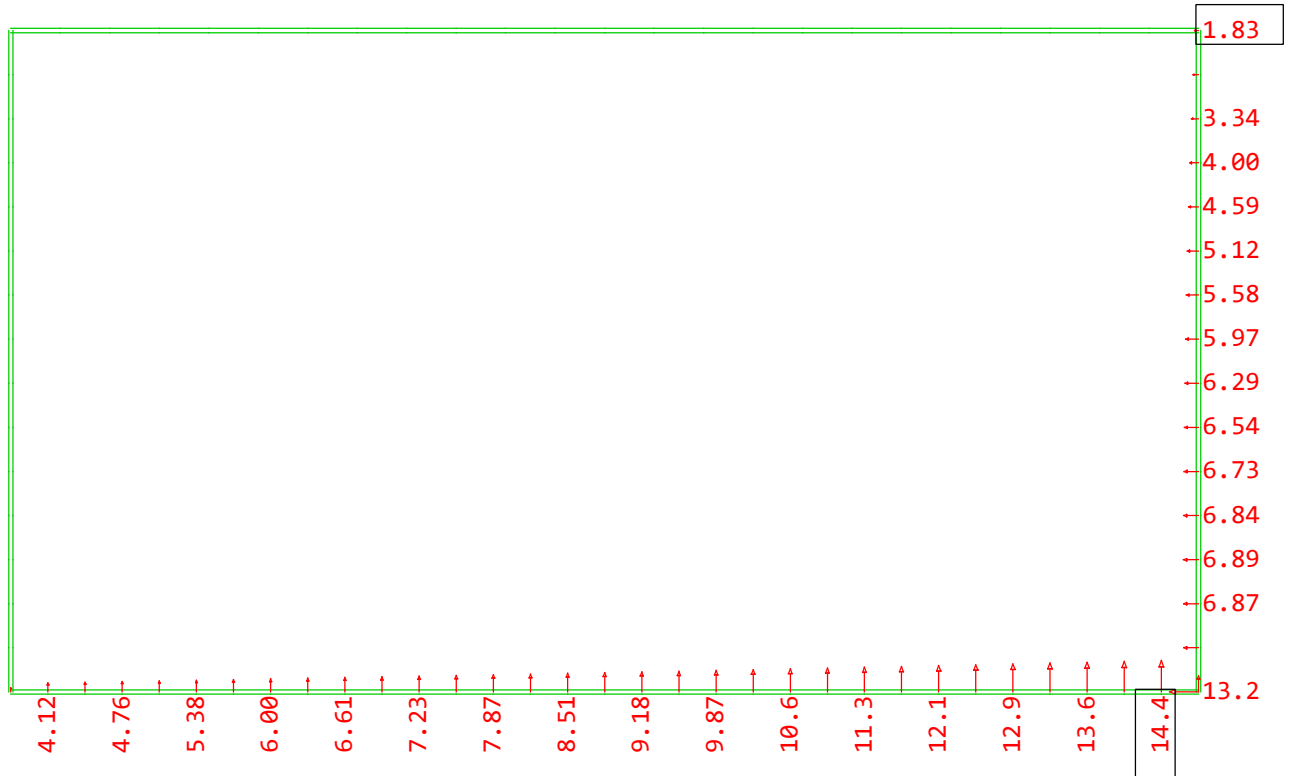


Beam Elements , Shear force Vz, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-163.0) (Max=163.0)

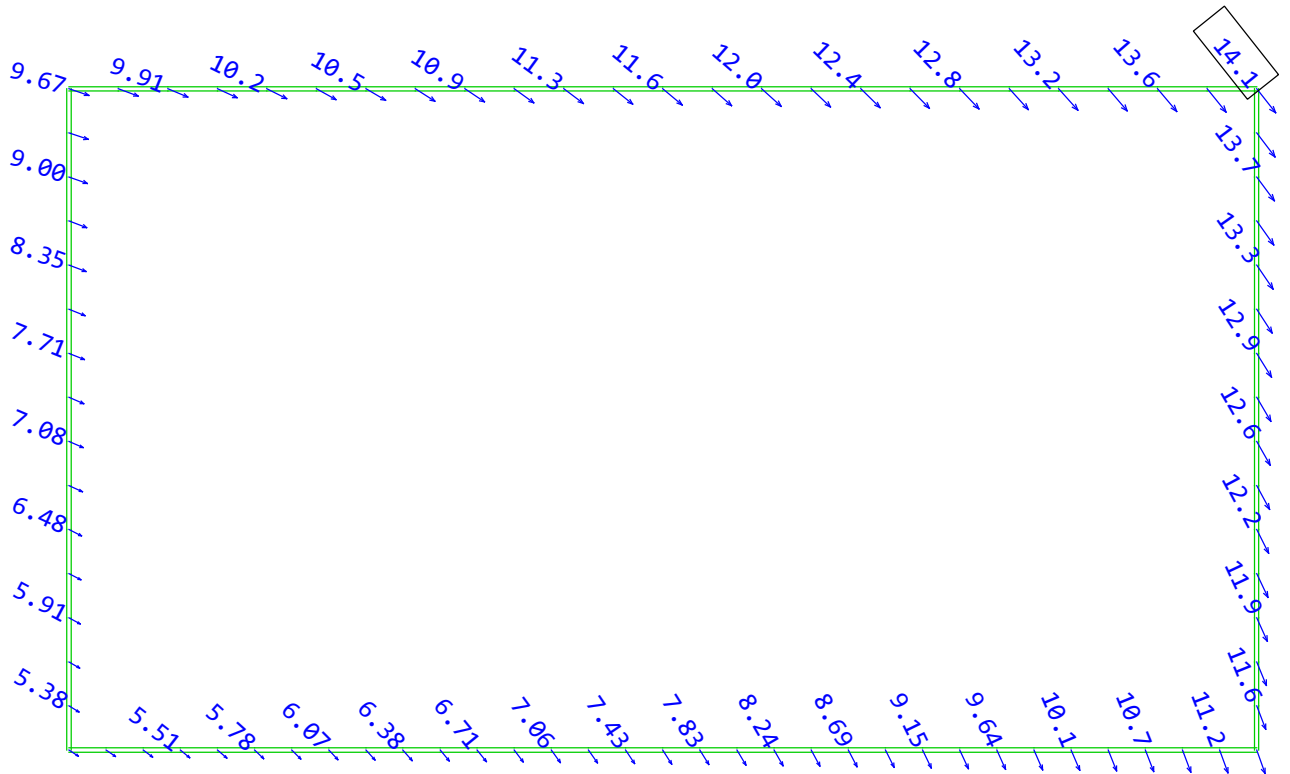


Beam Elements , Bending moment My, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kNm (Min=-178.8) (Max=124.8)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

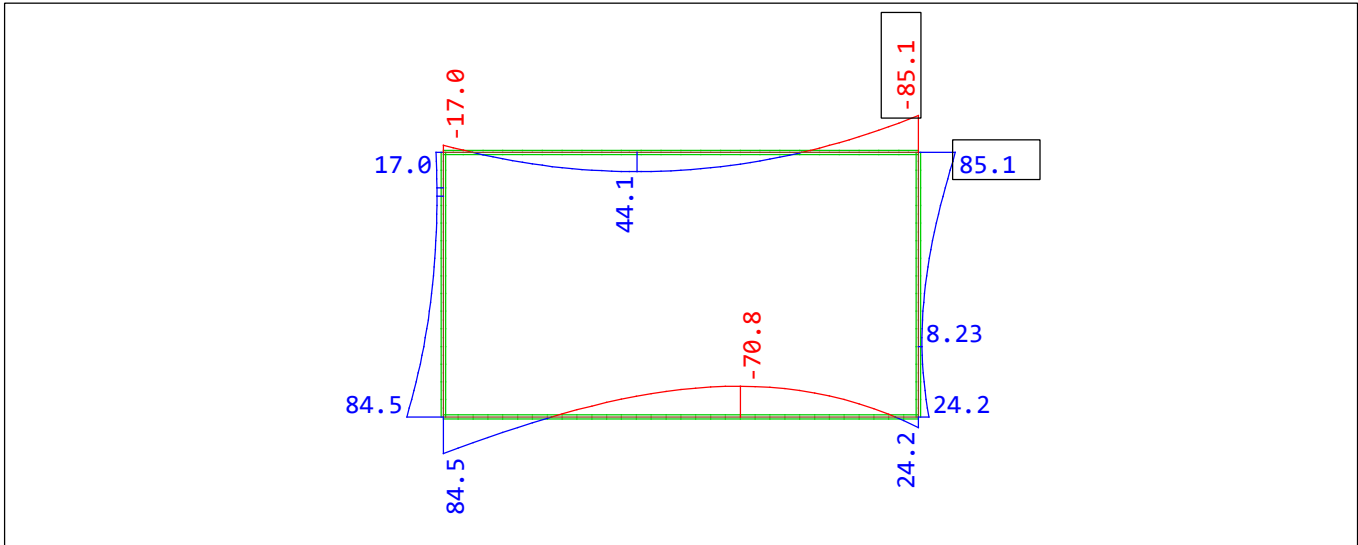
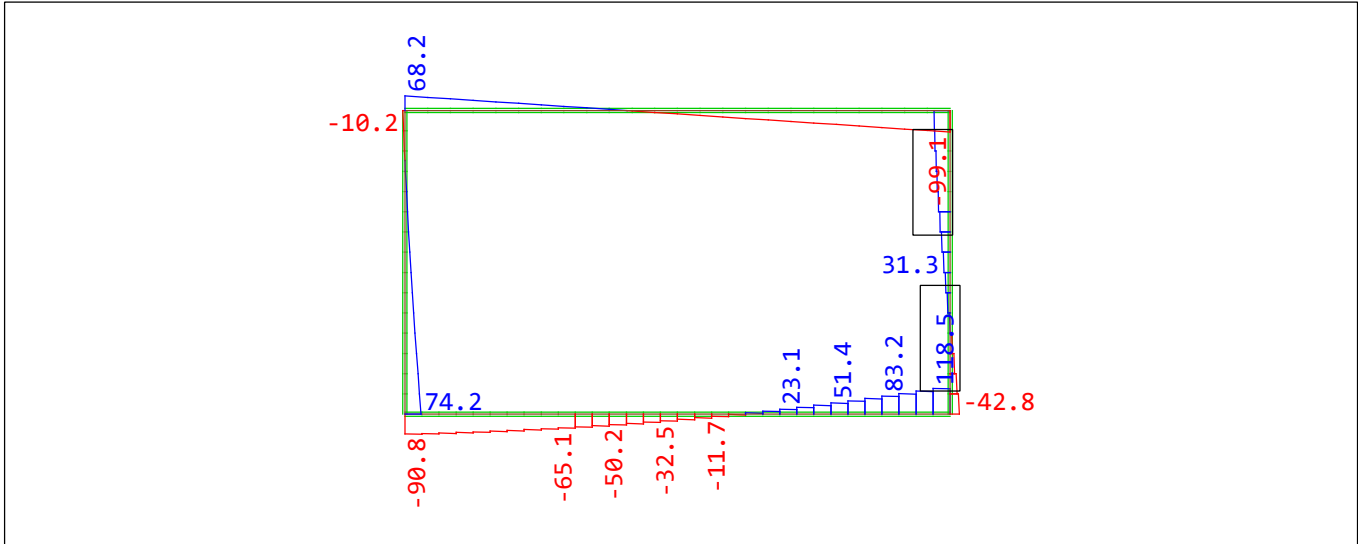


Spring force, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1, 1 cm 3D = 34.8 kN
(Max=0) (total: -382.1)

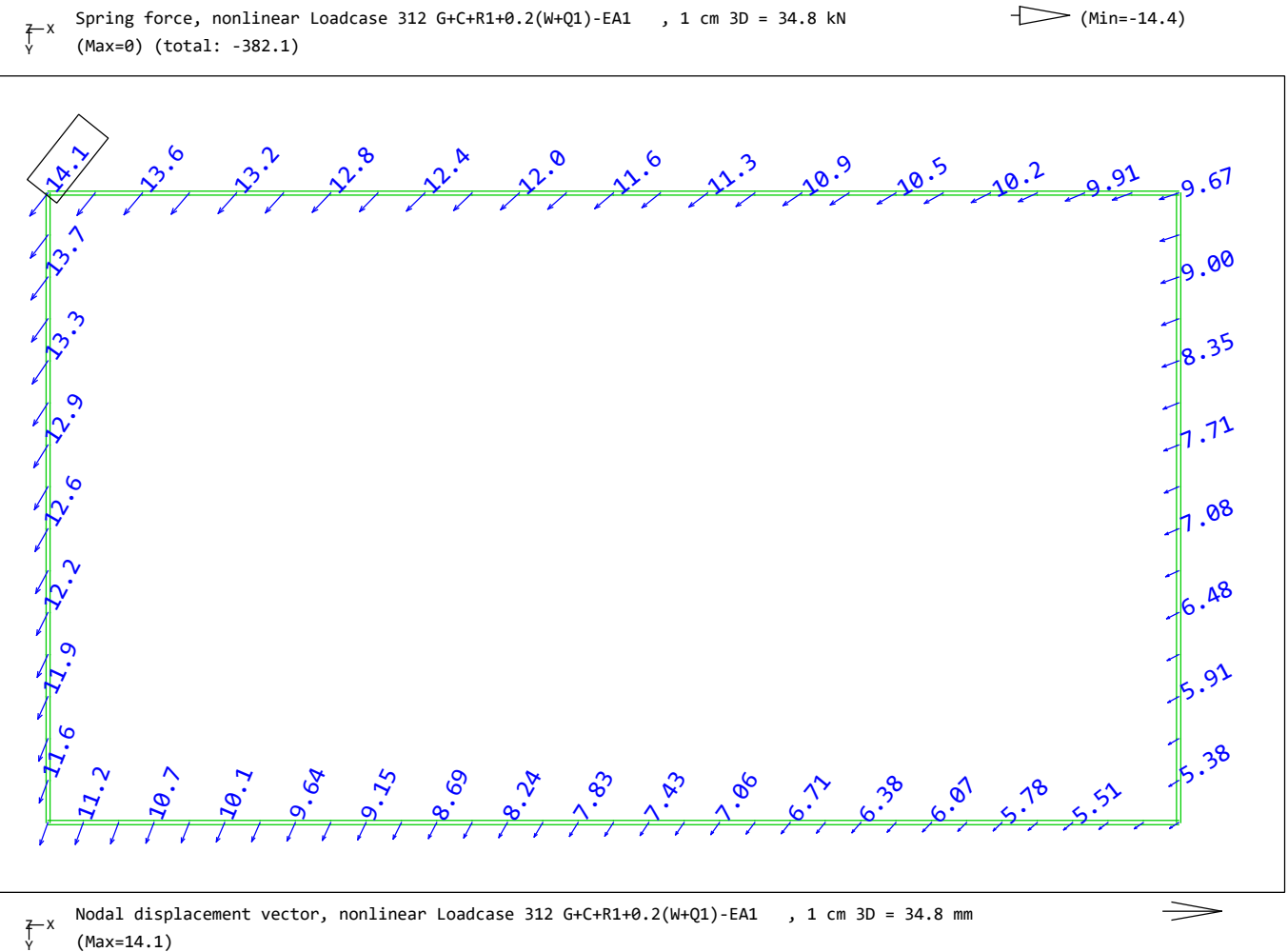
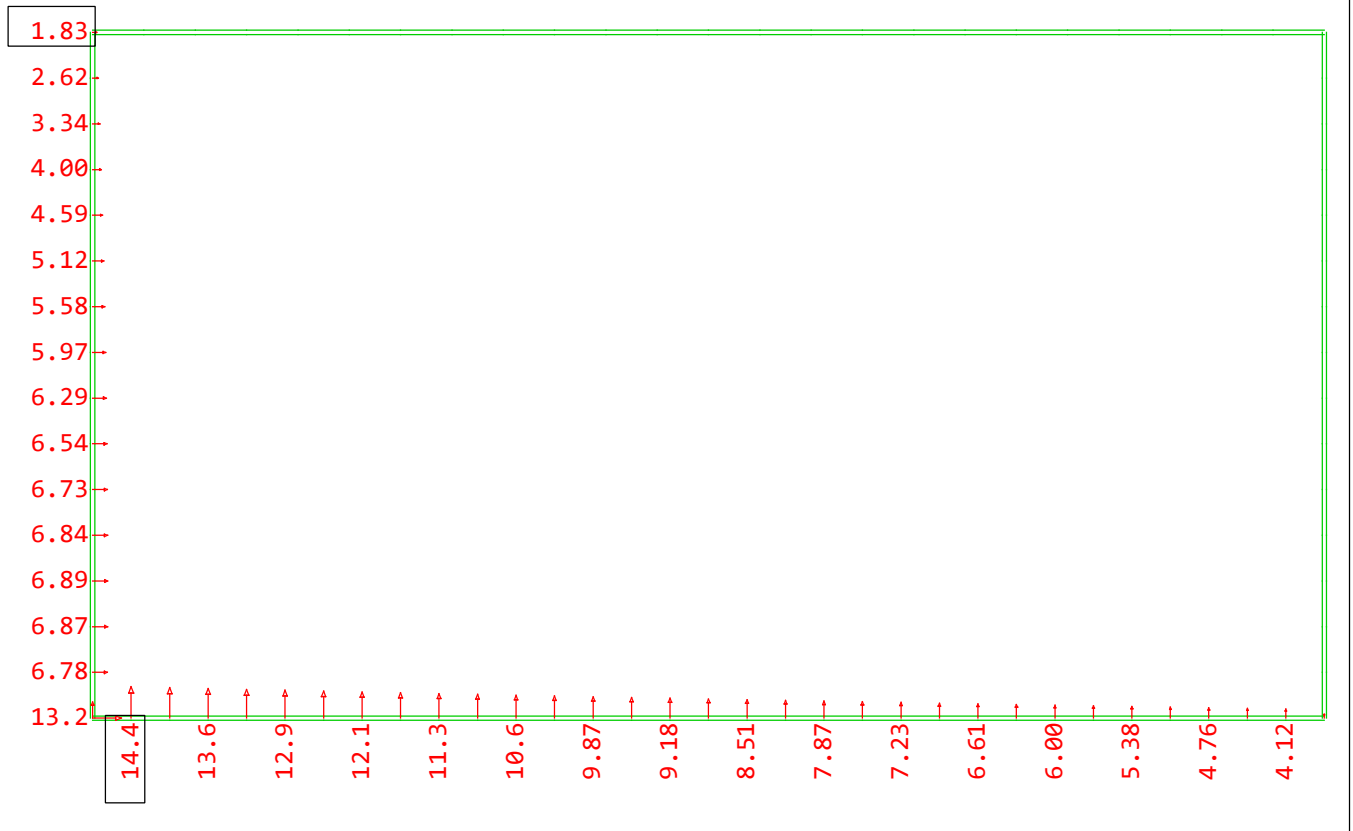


Nodal displacement vector, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1, 1 cm 3D = 34.8 mm
(Max=14.1)

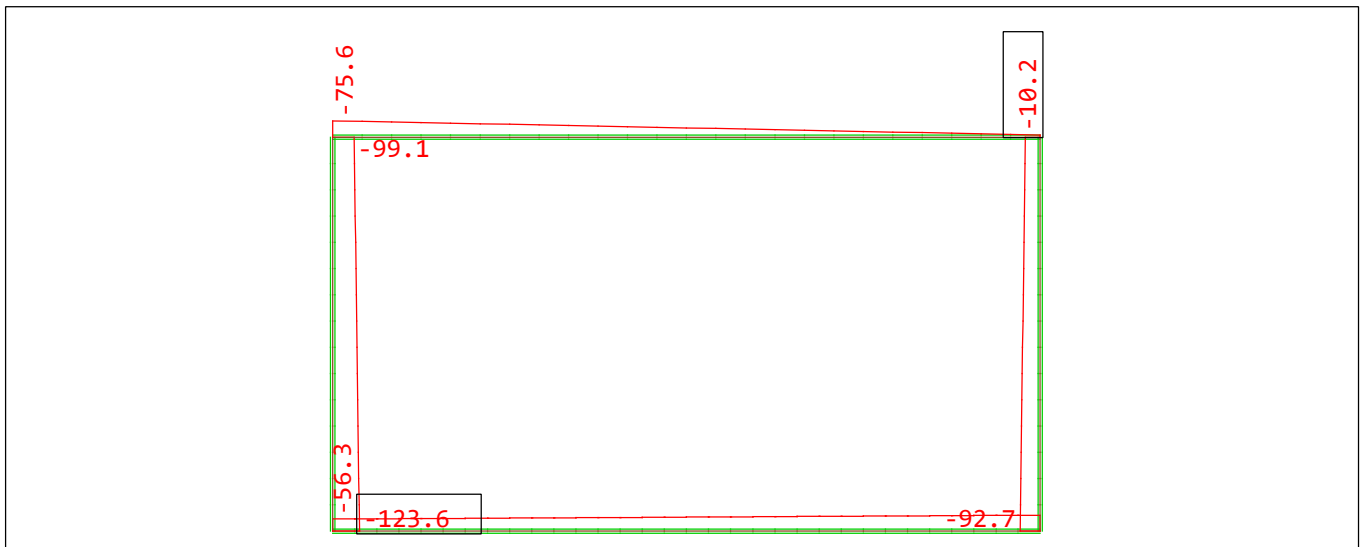
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



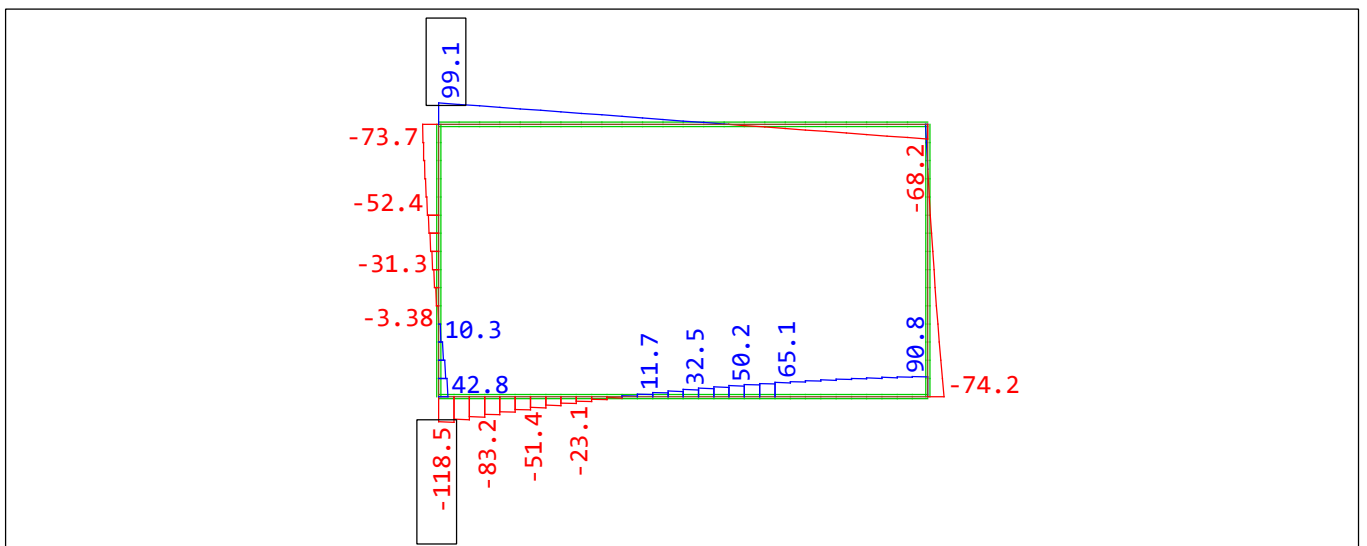
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



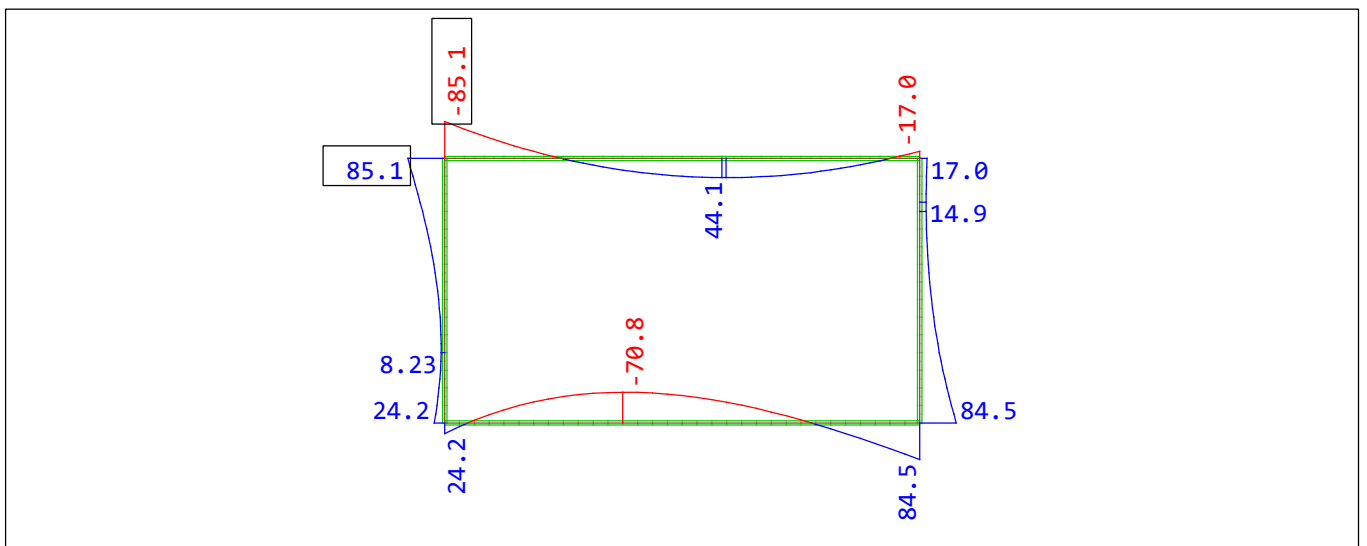
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 348.4 kN
(Min=-123.6) (Max=-10.2)



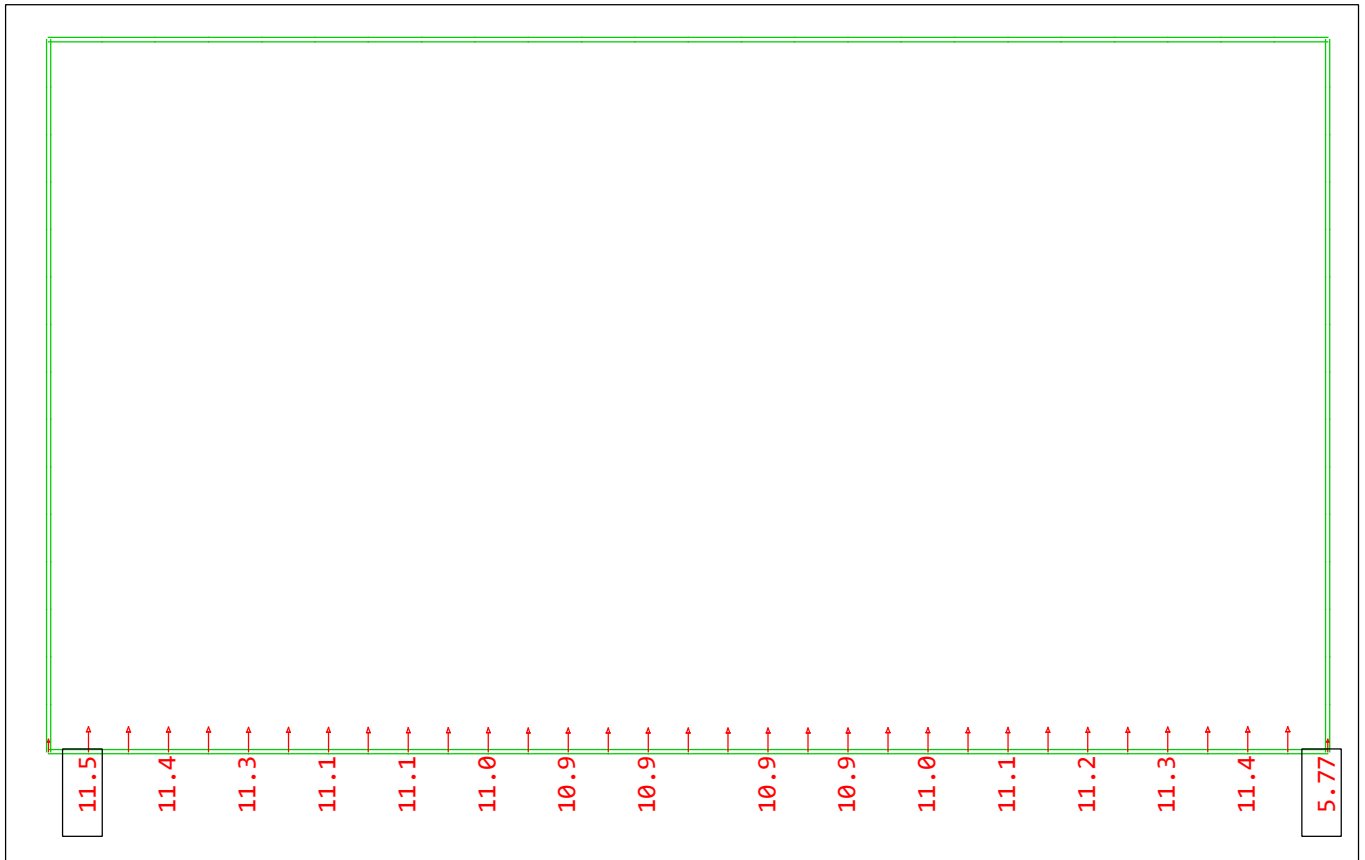
Beam Elements , Shear force Vz, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 348.4 kN
(Min=-118.5) (Max=99.1)



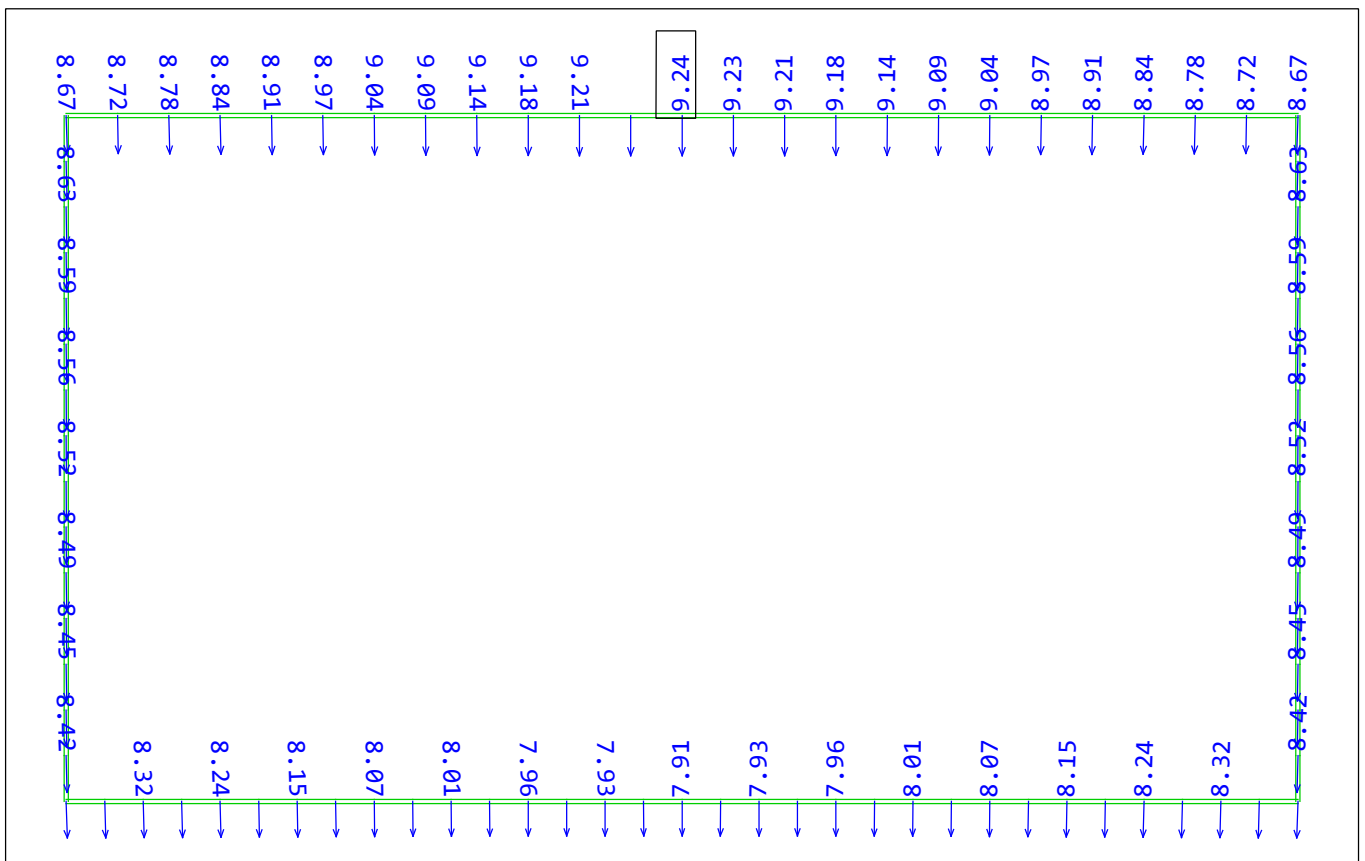
Beam Elements , Bending moment My, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 174.2
kNm (Min=-85.1) (Max=85.1)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

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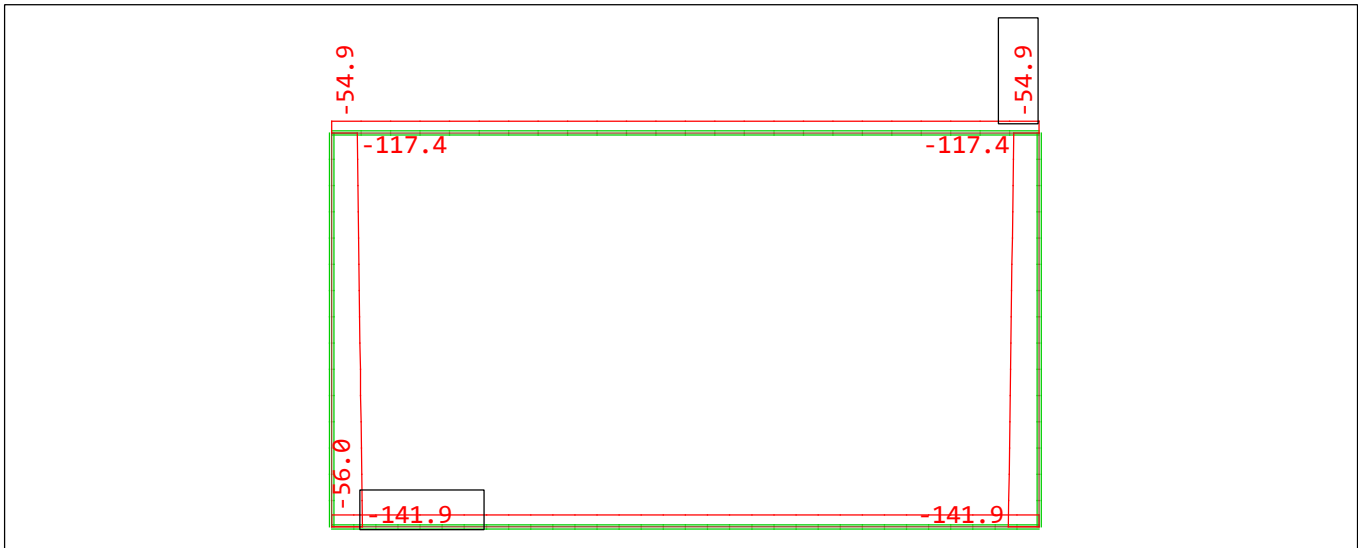


Spring force, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 34.8 kN
(Max=0) (total: -356.5) (Min=-11.5)

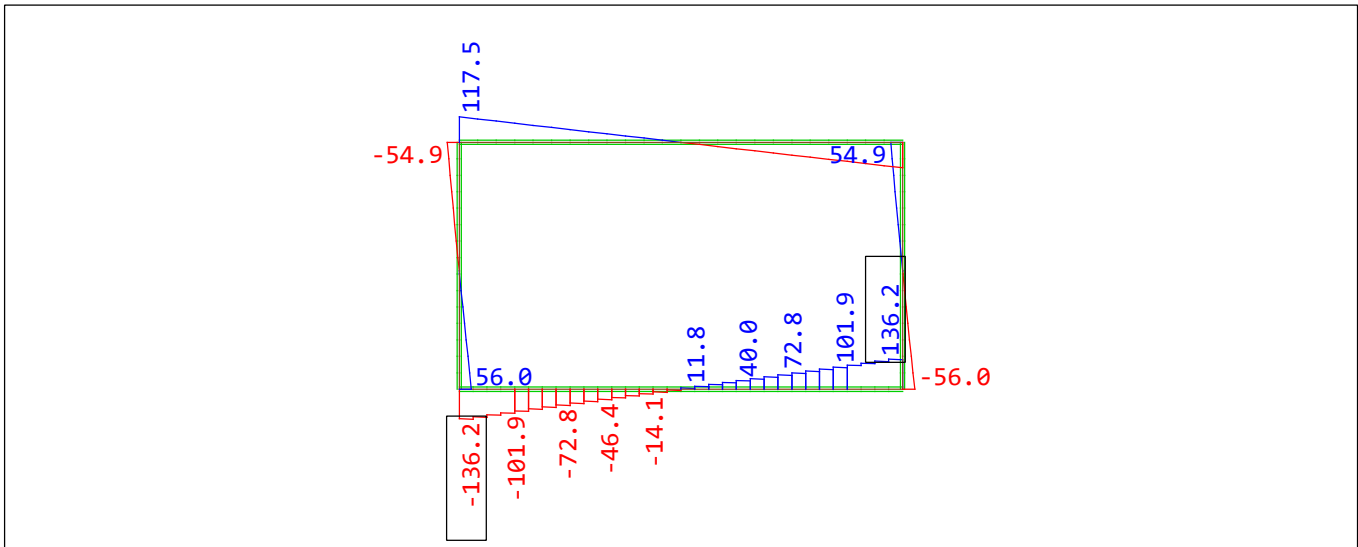


Nodal displacement vector, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 17.4 mm
(Max=9.24)

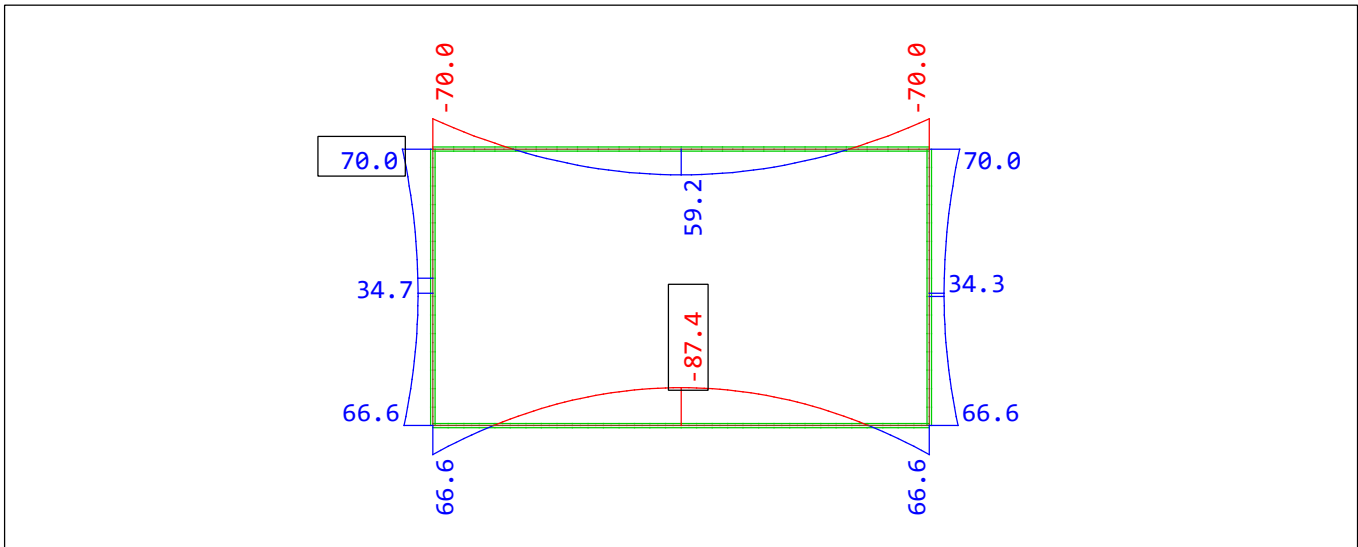
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force N_x , nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
 (Min=-141.9) (Max=-54.9)



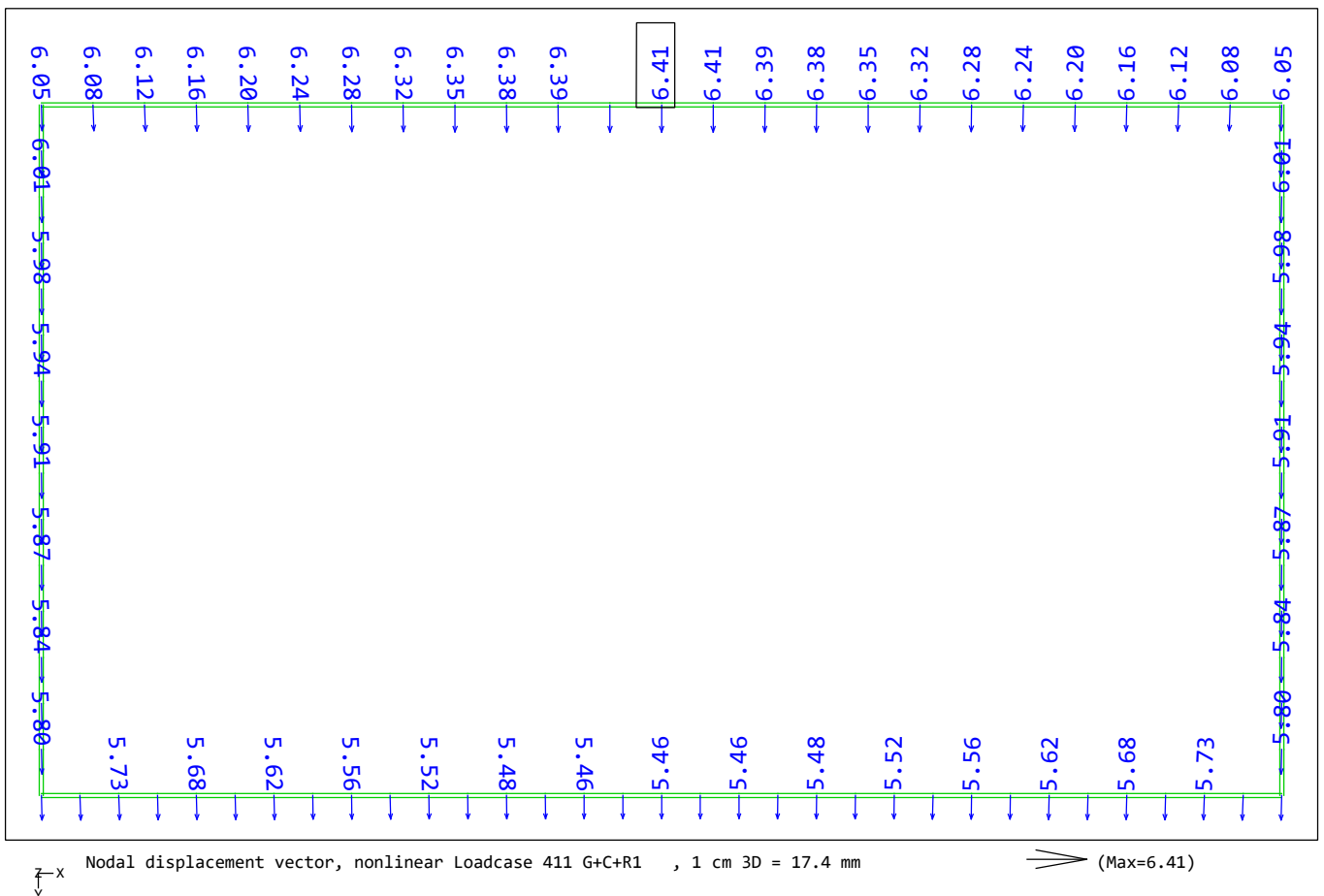
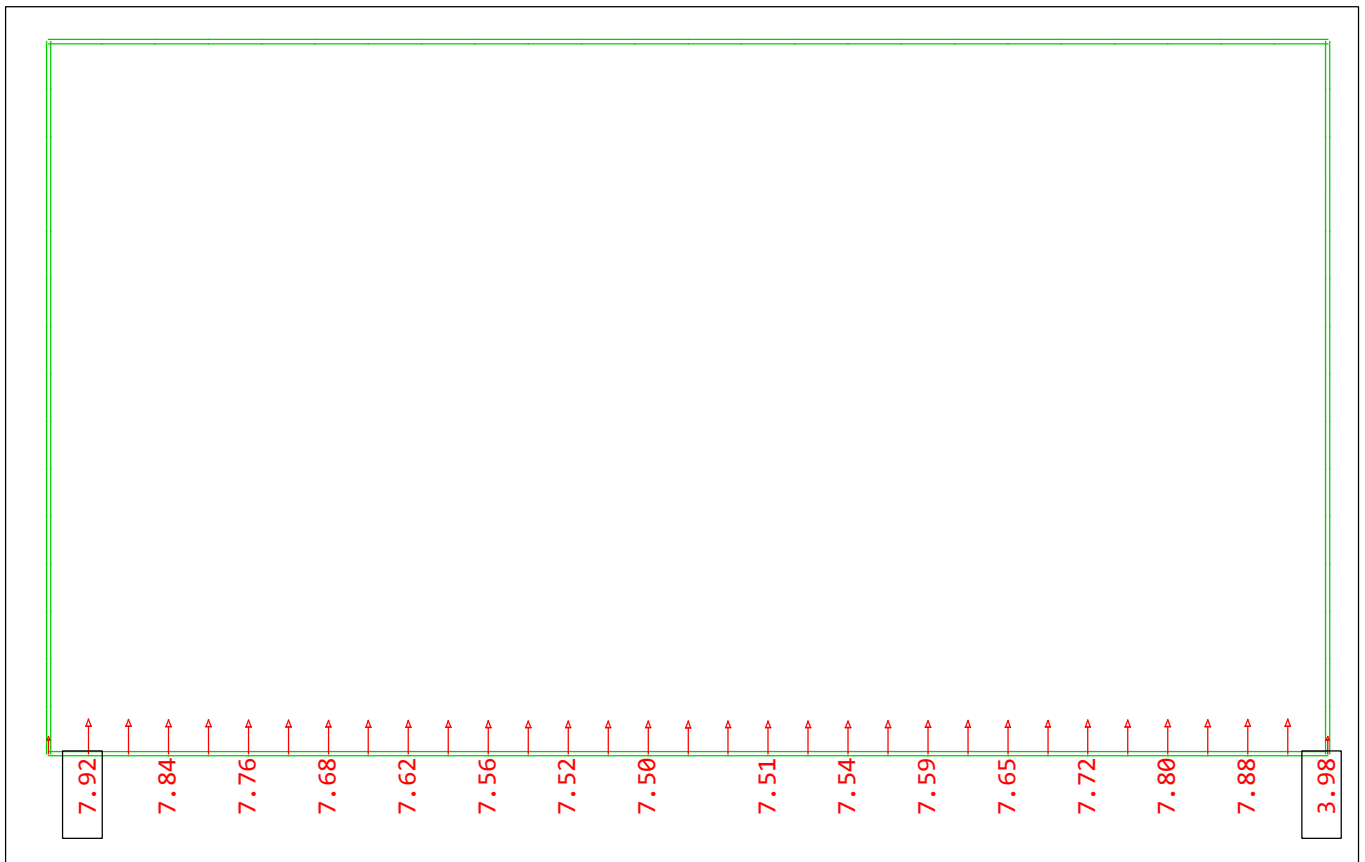
Beam Elements , Shear force V_z , nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
 (Min=-138.4) (Max=138.4)



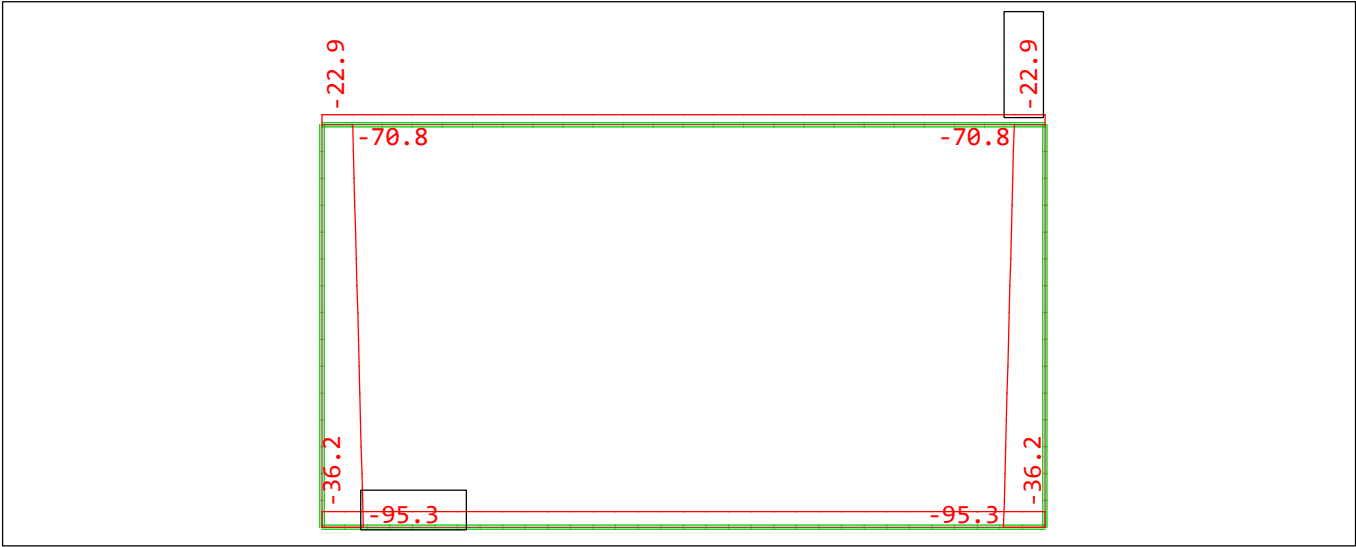
Beam Elements , Bending moment M_y , nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 174.2
 kNm (Min=-87.4) (Max=70.0)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

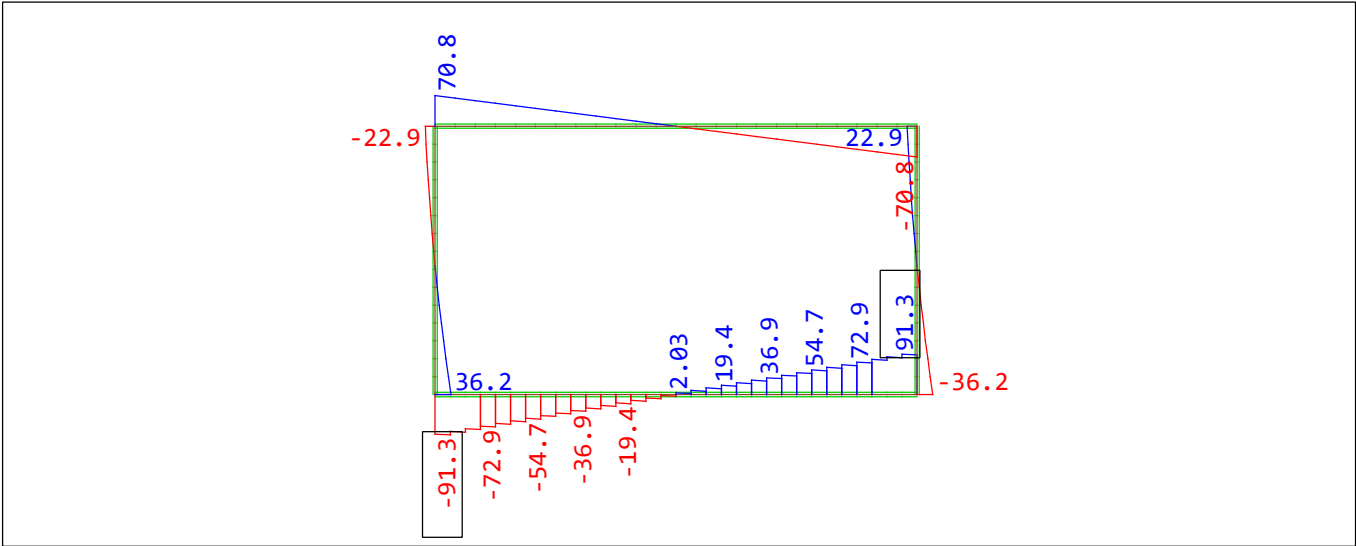
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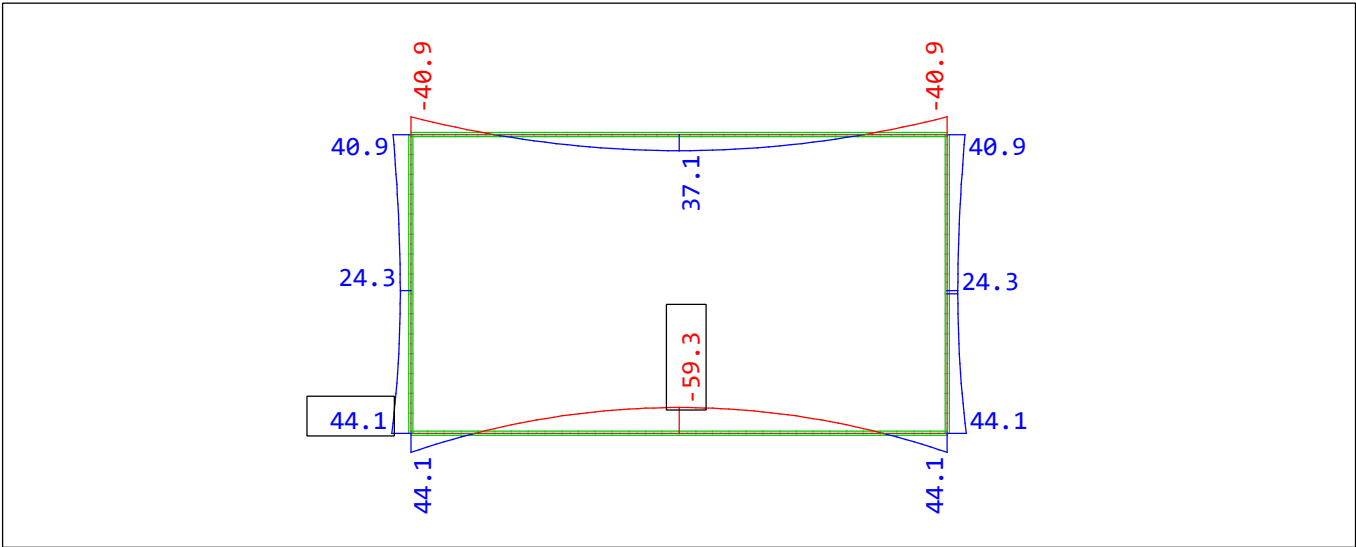
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-95.3)
 (Max=-22.9)

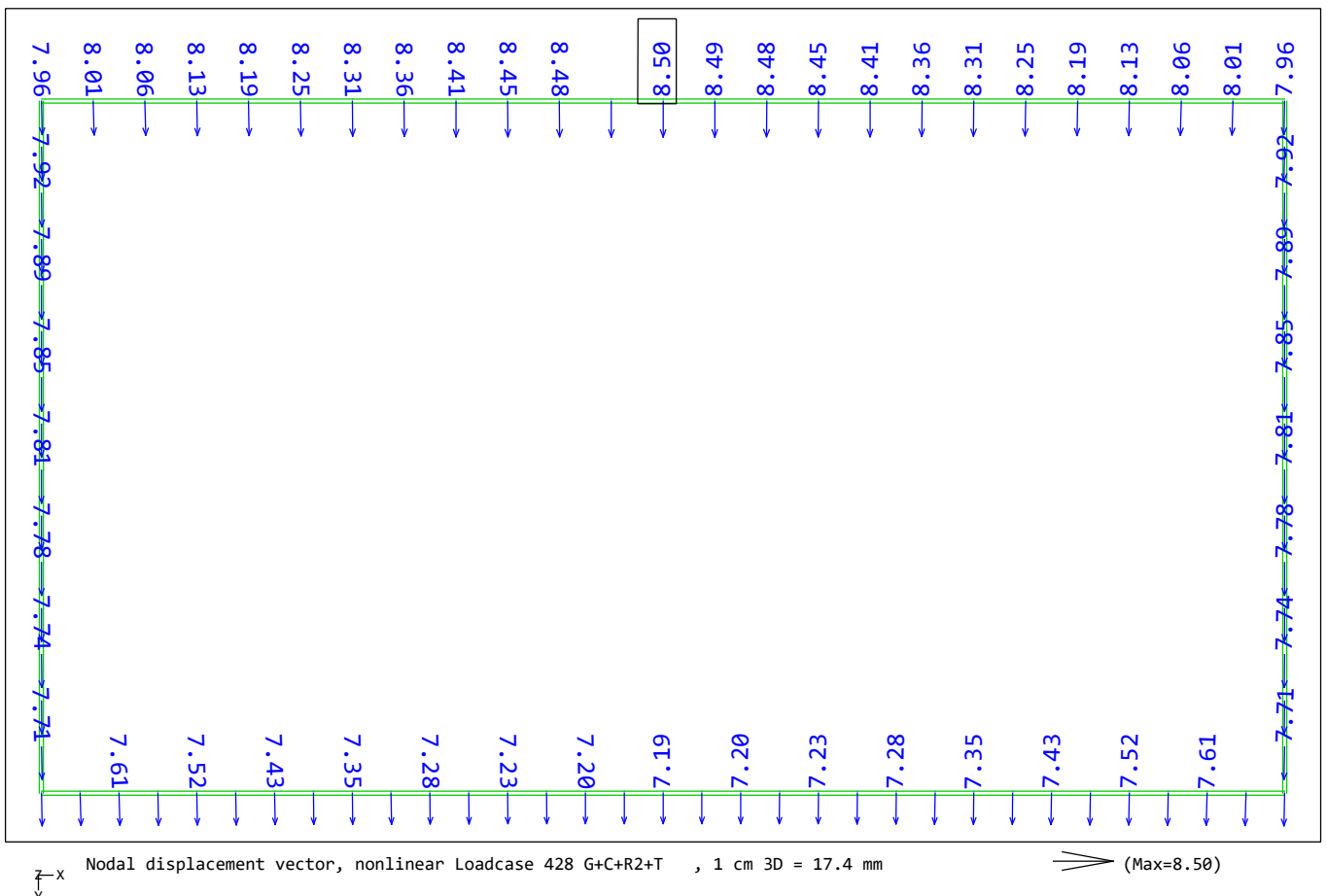
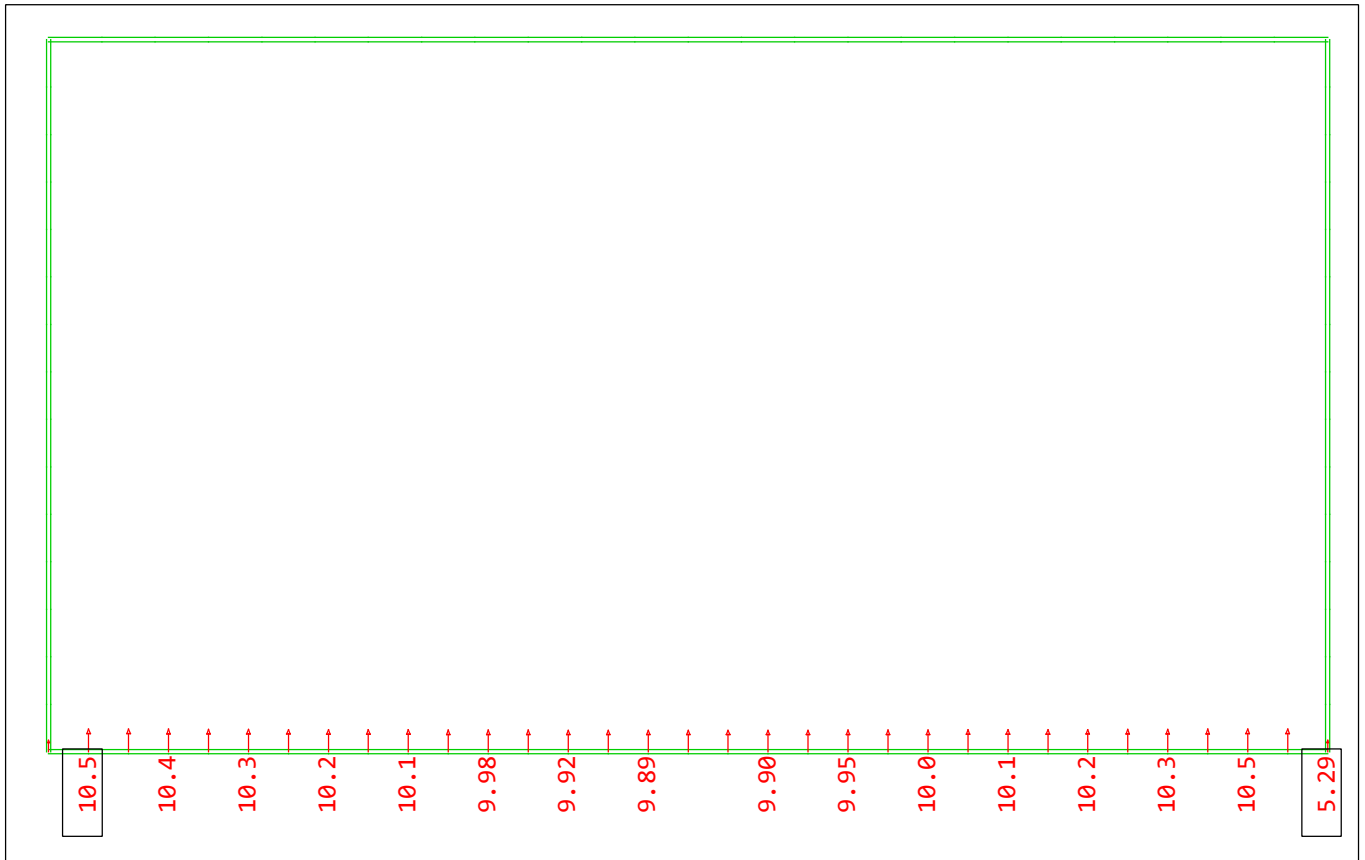


Beam Elements , Shear force Vz, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-93.1)
 (Max=93.1)

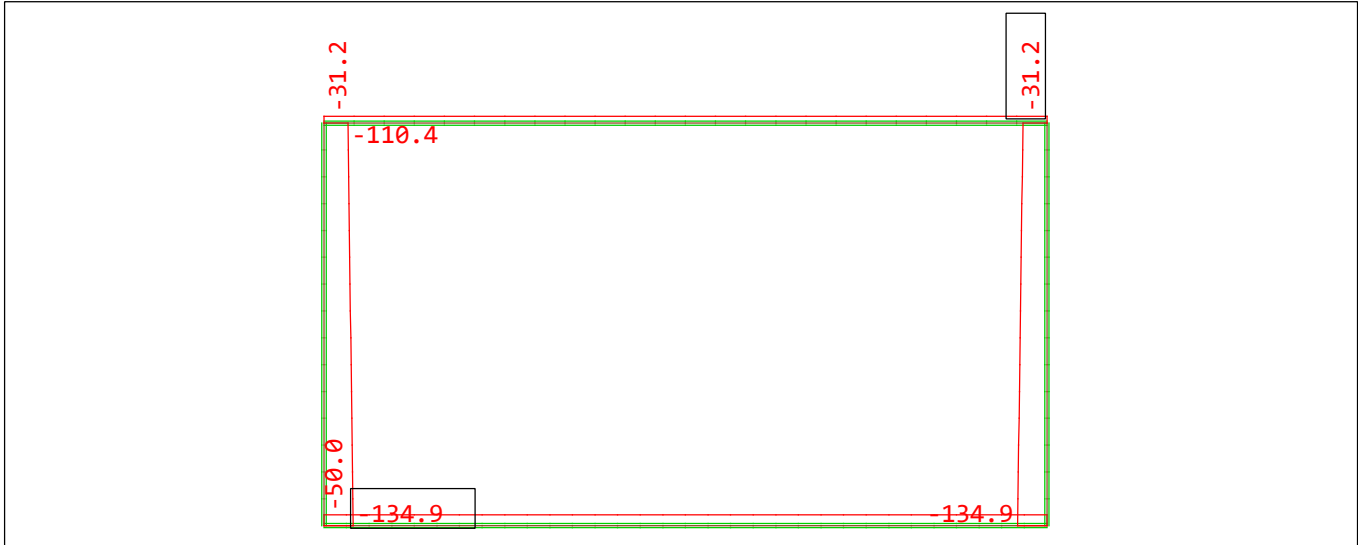


Beam Elements , Bending moment My, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kNm (Min=-59.3)
 (Max=44.1)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΑΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My

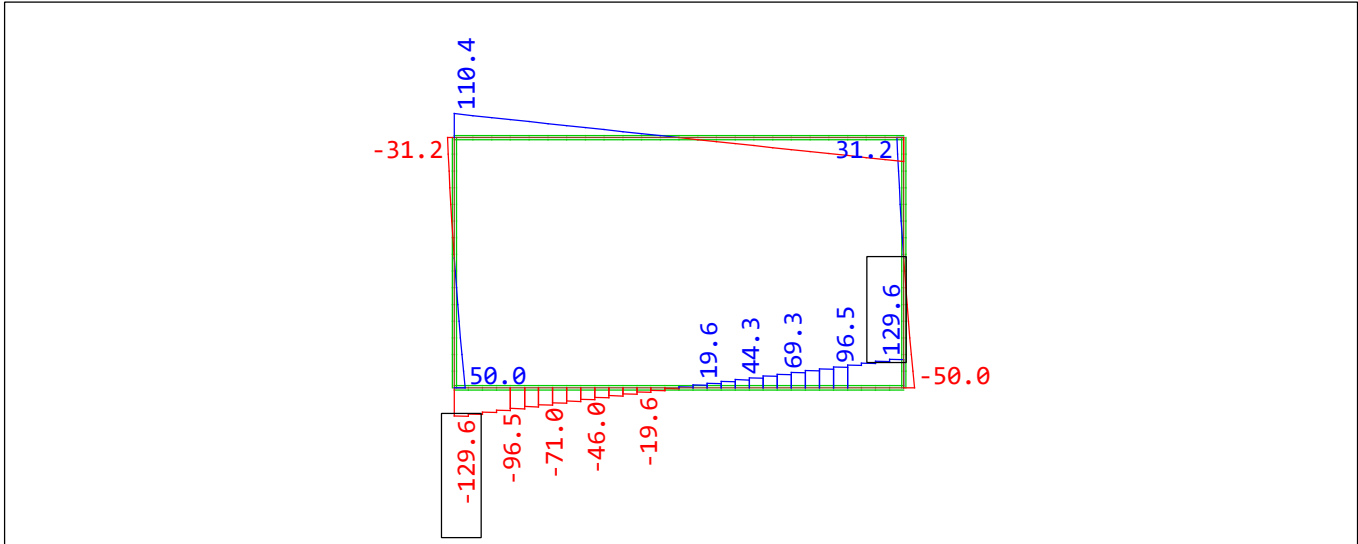


z

x

v

Beam Elements , Normal force Nx, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-134.9) (Max=-31.2)

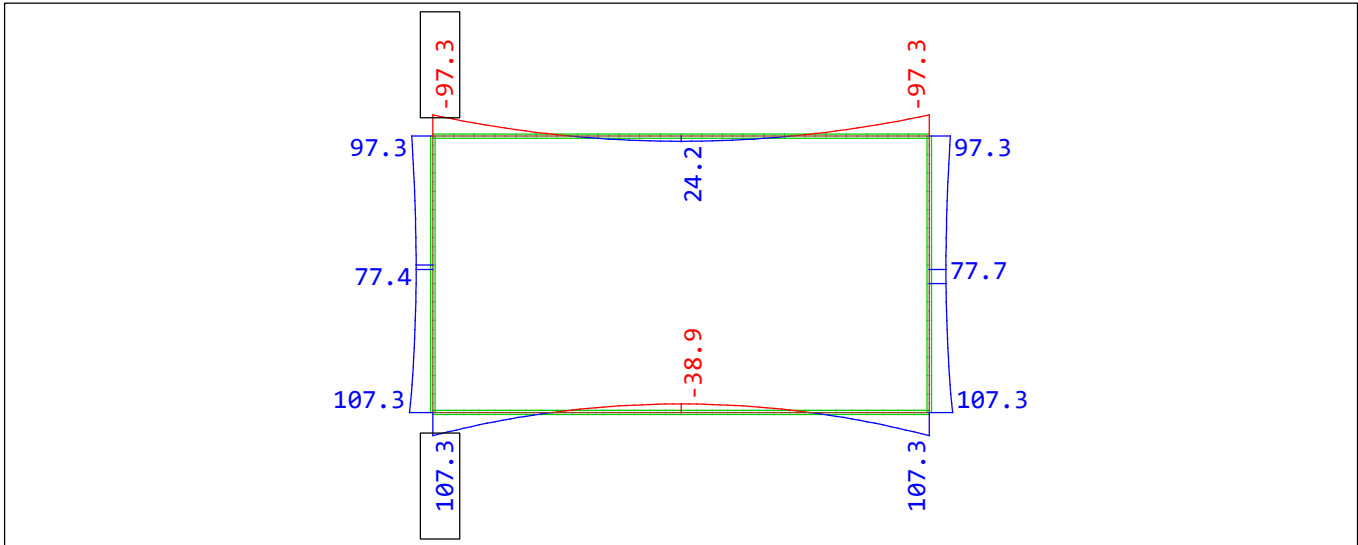


z

x

v

Beam Elements , Shear force Vz, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-131.4) (Max=131.4)



z

x

v

Beam Elements , Bending moment My, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kNm (Min=-97.3) (Max=107.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 1

Design combination

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
100	1.00	AG1	1.35G+C
101	1.00	AG1	1.35(G+R1)+C
102	1.00	AG1	G+1.35R1+C
103	1.00	AG1	1.35G+R1+C
104	1.00	AG1	1.35(G+R1)+C+1.2W
105	1.00	AG1	G+1.35R1+C+1.2W
106	1.00	AG1	1.35G+R1+C+1.2W
107	1.00	AG1	1.35(G+R1)+C+1.5Q1
108	1.00	AG1	G+1.35R1+C+1.5Q1
109	1.00	AG1	1.35G+R1+C+1.5Q1
110	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1
111	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1
112	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1
113	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
114	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
115	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
116	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
120	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
121	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
122	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
126	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
127	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
128	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
132	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
133	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
134	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
138	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
139	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
140	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
144	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
145	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
146	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
150	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

Load Case selection

Number	Fact	Type	Designation
151	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
152	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
156	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
157	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
158	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
162	1.00	AG1	G+1.35R1+C+1.2W+1.5T
163	1.00	AG1	1.35G+R1+C+1.2W+1.5T
164	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
165	1.00	AG1	G+1.35R1+C+1.2W+1.5T
166	1.00	AG1	1.35G+R1+C+1.2W+1.5T
167	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
168	1.00	AG1	G+1.35R1+C+1.2W+1.5T
169	1.00	AG1	1.35G+R1+C+1.2W+1.5T
170	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
171	1.00	AG1	G+1.35R1+C+1.2W+1.5T
172	1.00	AG1	1.35G+R1+C+1.2W+1.5T
201	1.00	AG1	1.35(G+R2)+C
202	1.00	AG1	G+1.35R2+C
203	1.00	AG1	1.35G+R2+C
204	1.00	AG1	1.35(G+R2)+C+1.2W
205	1.00	AG1	G+1.35R2+C+1.2W
206	1.00	AG1	1.35G+R2+C+1.2W
207	1.00	AG1	1.35(G+R2)+C+1.5Q2
208	1.00	AG1	G+1.35R2+C+1.5Q2
209	1.00	AG1	1.35G+R2+C+1.5Q2
210	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2
211	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2
212	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2
213	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
214	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
215	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
216	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
220	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
221	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
222	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
226	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
227	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
228	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
232	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
233	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
234	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

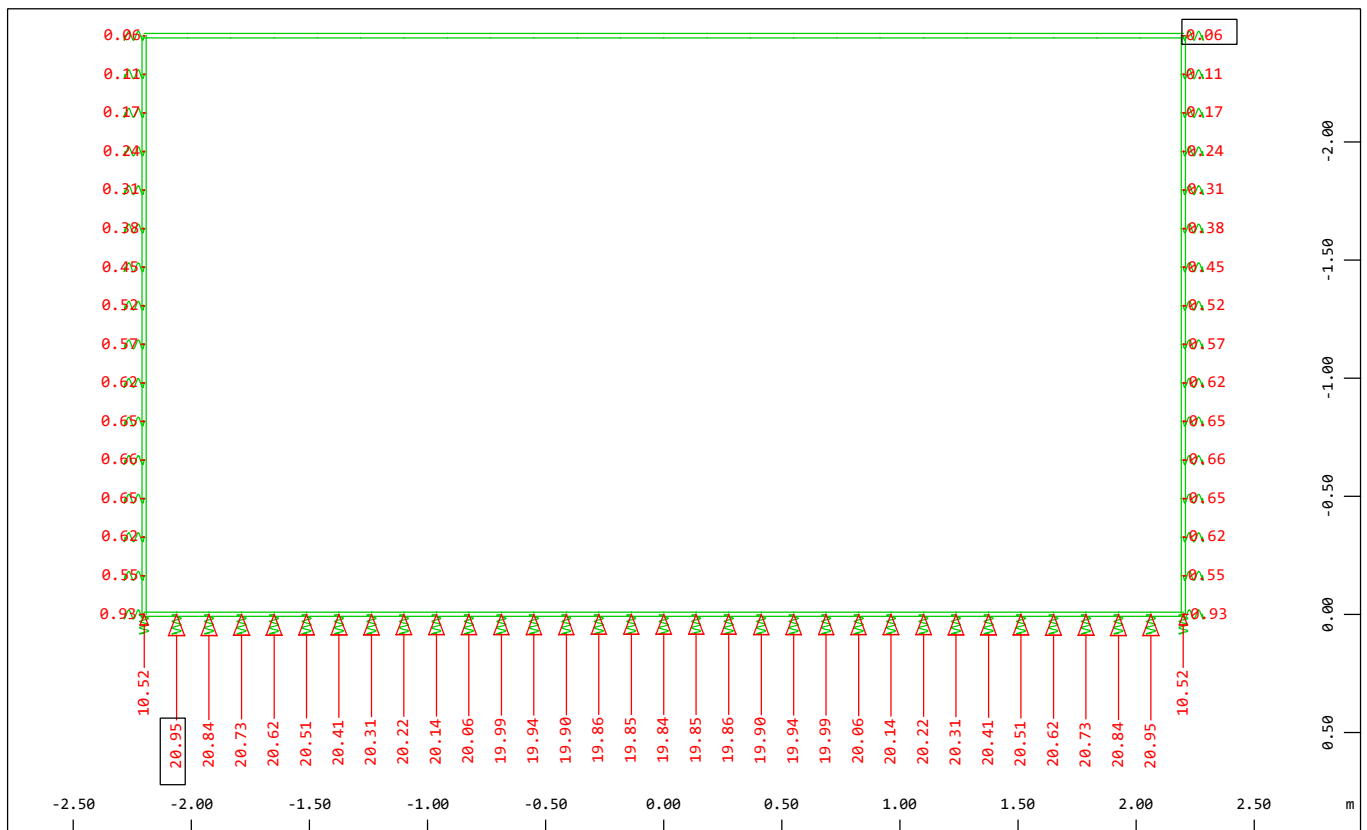
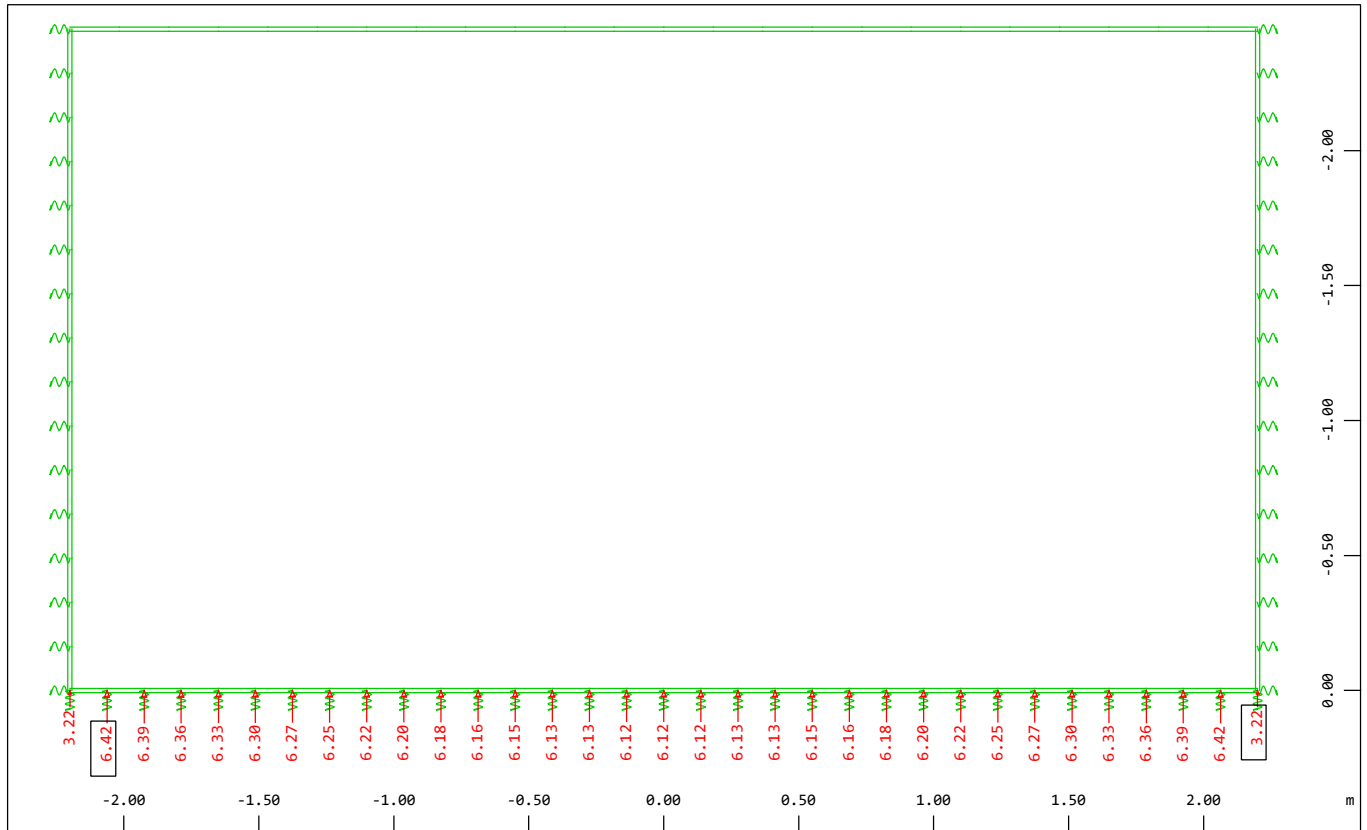
Load Case selection

Number	Fact	Type	Designation
236	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
238	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
239	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
240	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
244	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
245	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
246	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
250	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
251	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
252	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
256	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
257	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
258	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
262	1.00	AG1	G+1.35R2+C+1.2W+1.5T
263	1.00	AG1	1.35G+R2+C+1.2W+1.5T
264	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
265	1.00	AG1	G+1.35R2+C+1.2W+1.5T
266	1.00	AG1	1.35G+R2+C+1.2W+1.5T
267	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
268	1.00	AG1	G+1.35R2+C+1.2W+1.5T
269	1.00	AG1	1.35G+R2+C+1.2W+1.5T
270	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
271	1.00	AG1	G+1.35R2+C+1.2W+1.5T
272	1.00	AG1	1.35G+R2+C+1.2W+1.5T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

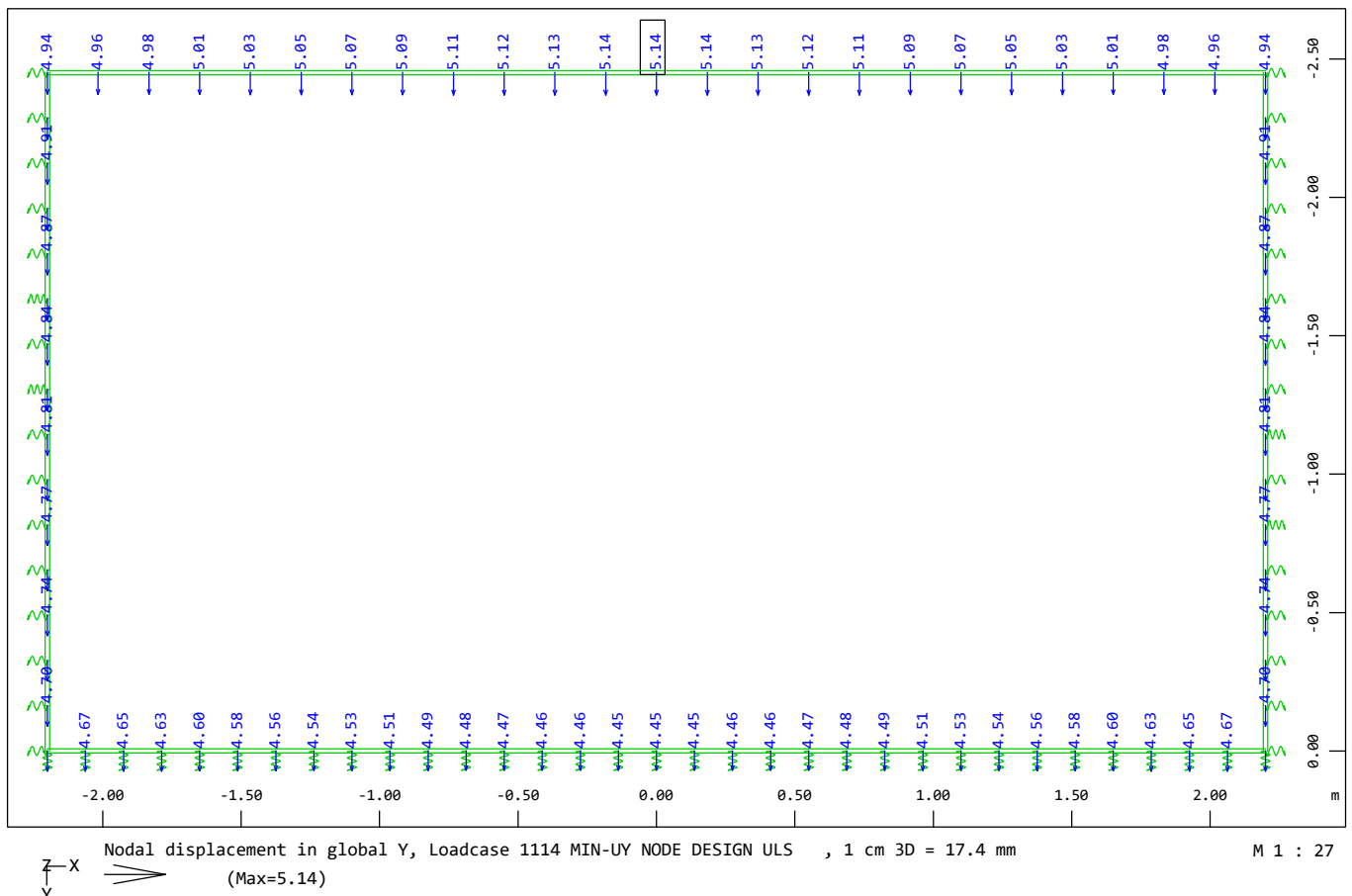
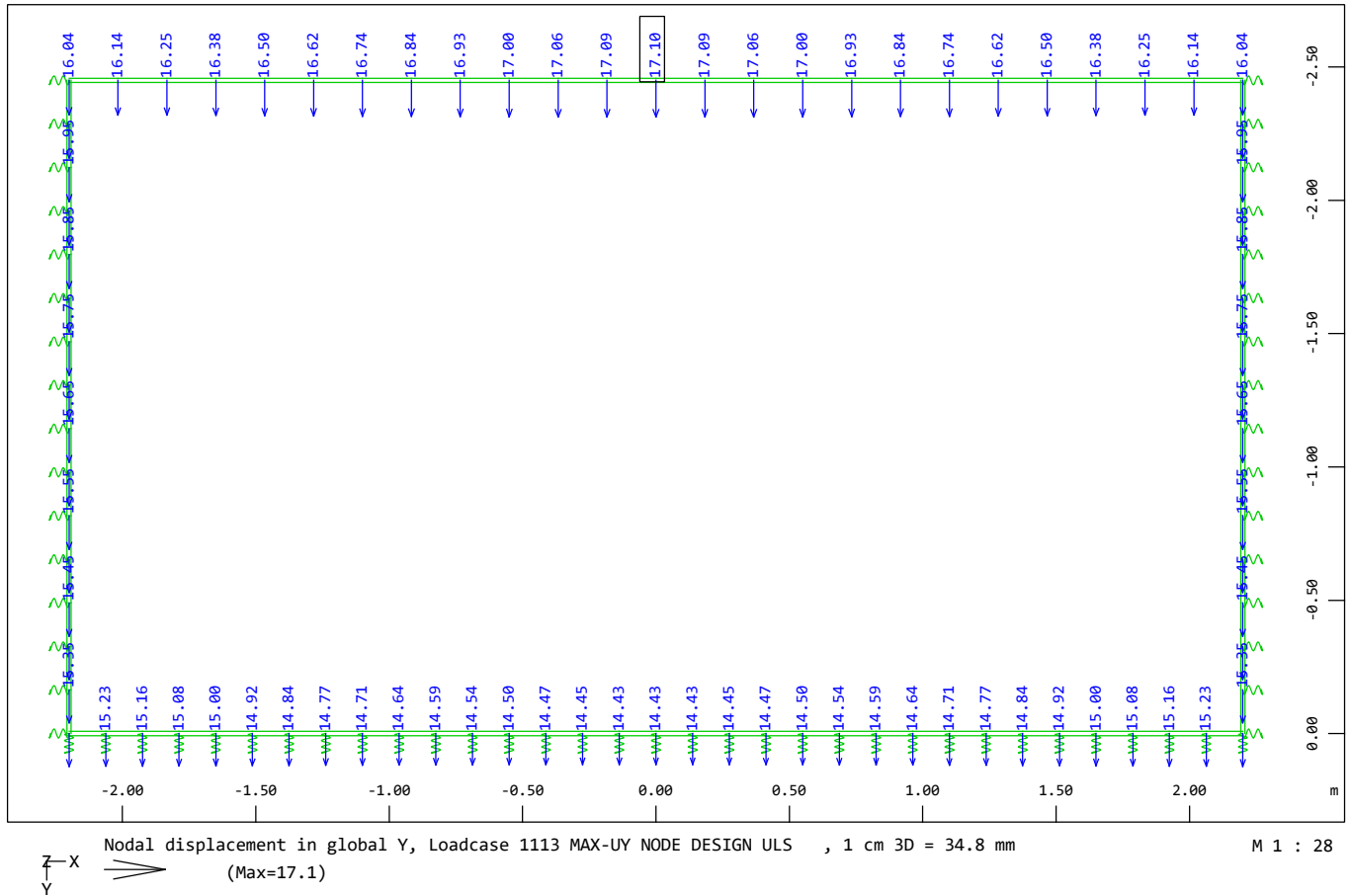
Number	Combination	Designation
1101	1	MAX-N BEAM DESIGN ULS
1102	1	MIN-N BEAM DESIGN ULS
1103	1	MAX-MY BEAM DESIGN ULS
1104	1	MIN-MY BEAM DESIGN ULS
1105	1	MAX-VZ BEAM DESIGN ULS
1106	1	MIN-VZ BEAM DESIGN ULS
1111	1	MAX-UX NODE DESIGN ULS
1112	1	MIN-UX NODE DESIGN ULS
1113	1	MAX-UY NODE DESIGN ULS
1114	1	MIN-UY NODE DESIGN ULS
1121	1	MAX-P SPRI DESIGN ULS
1122	1	MIN-P SPRI DESIGN ULS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

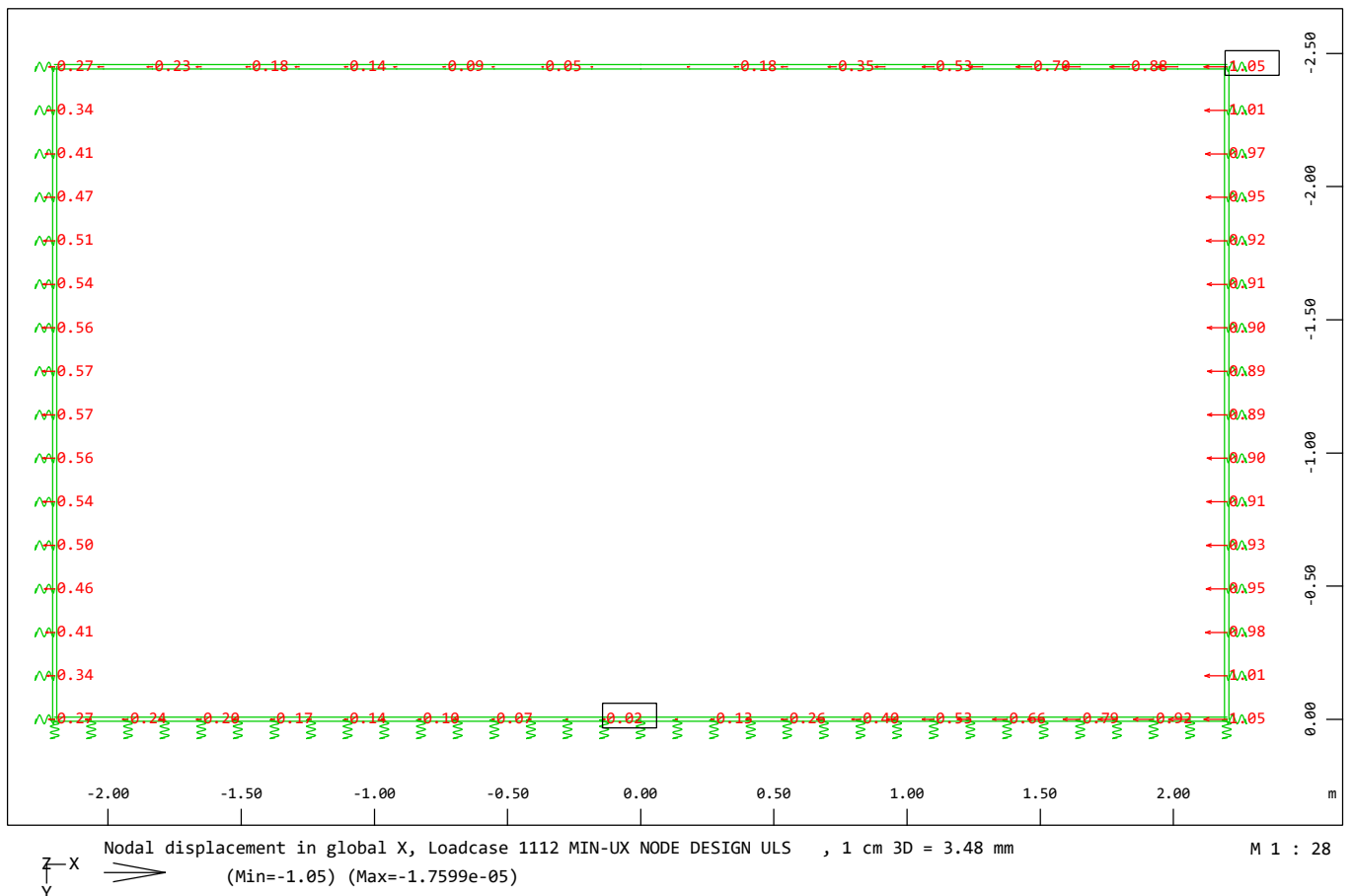
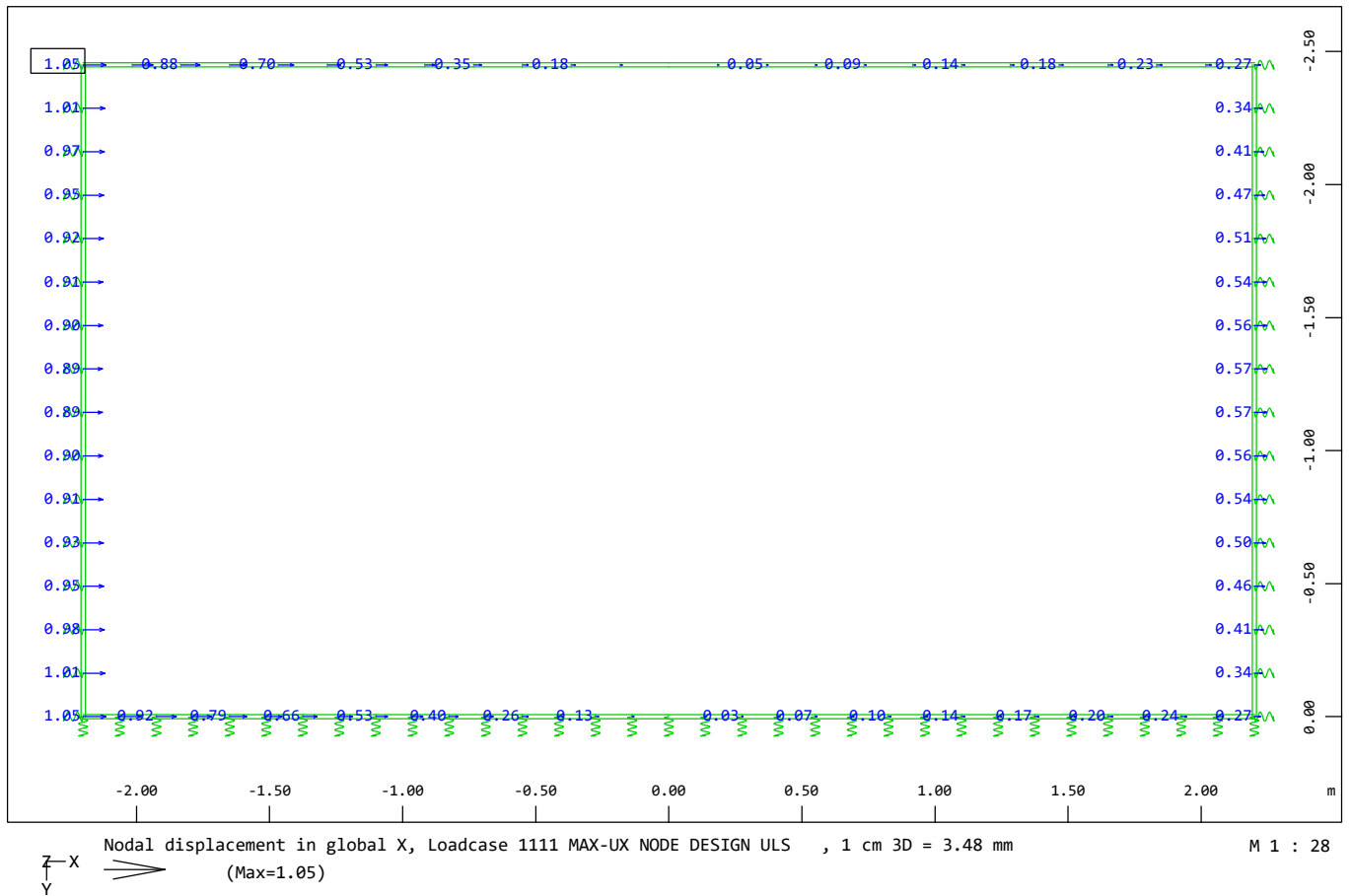


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

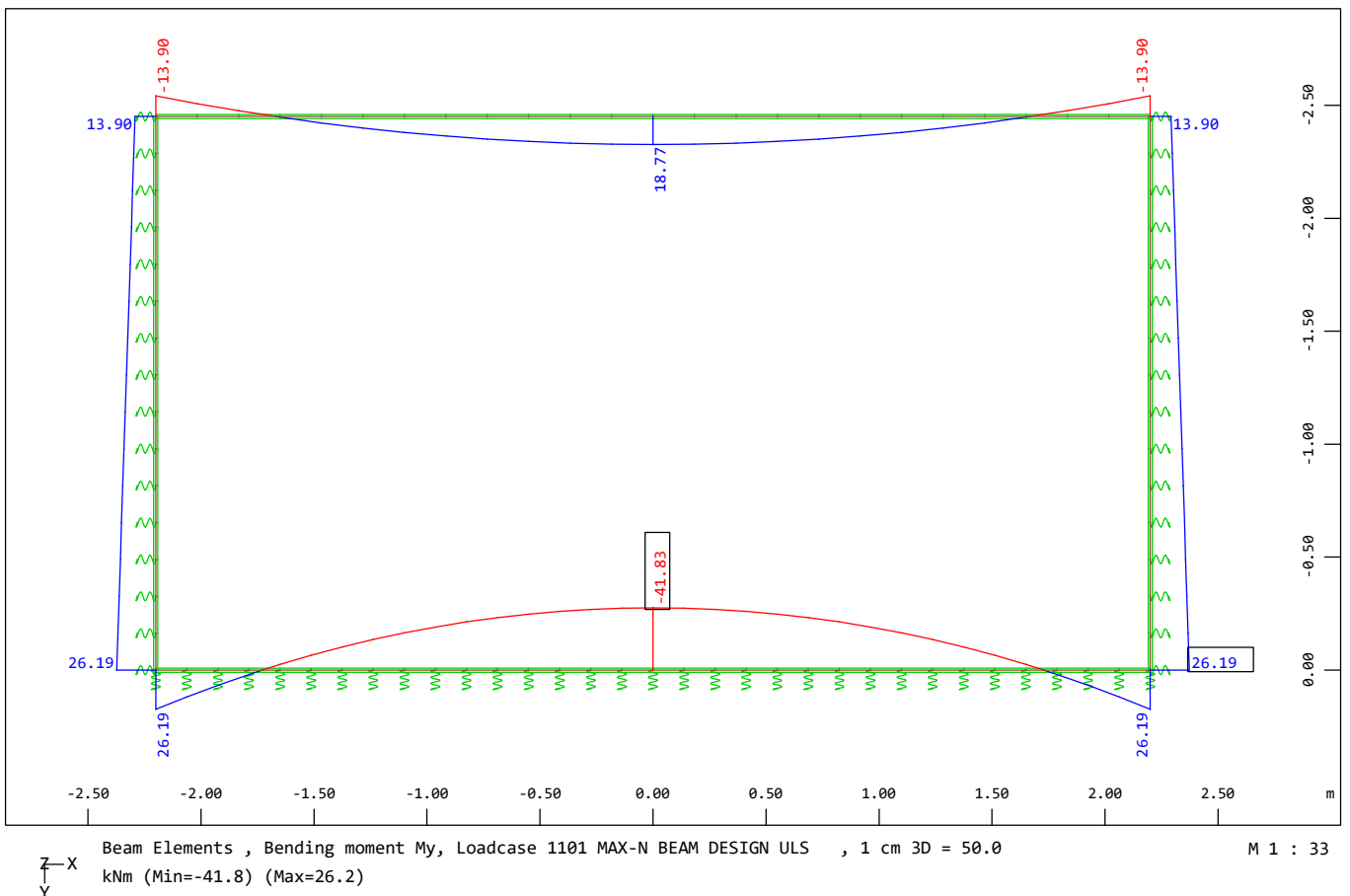
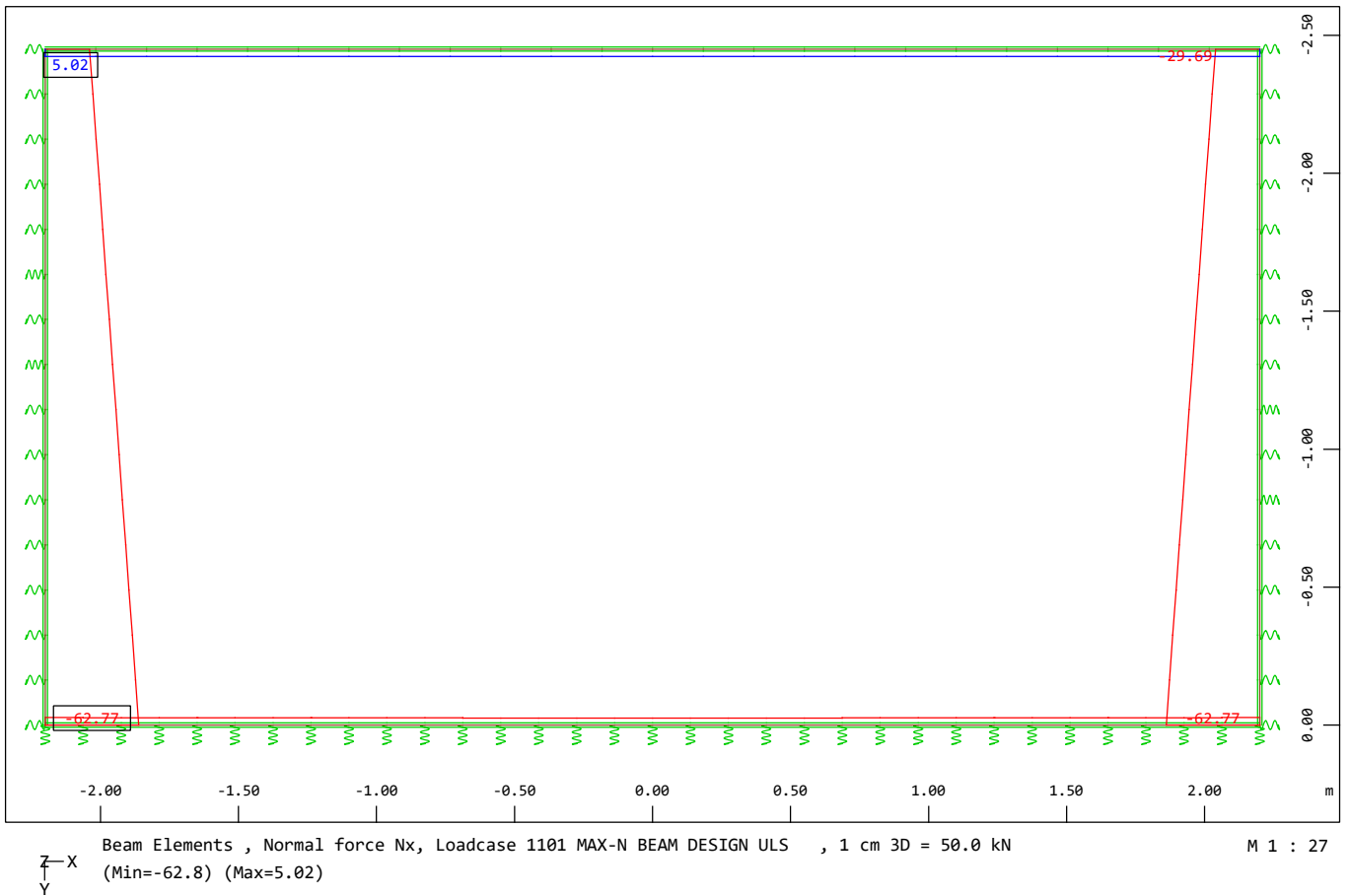
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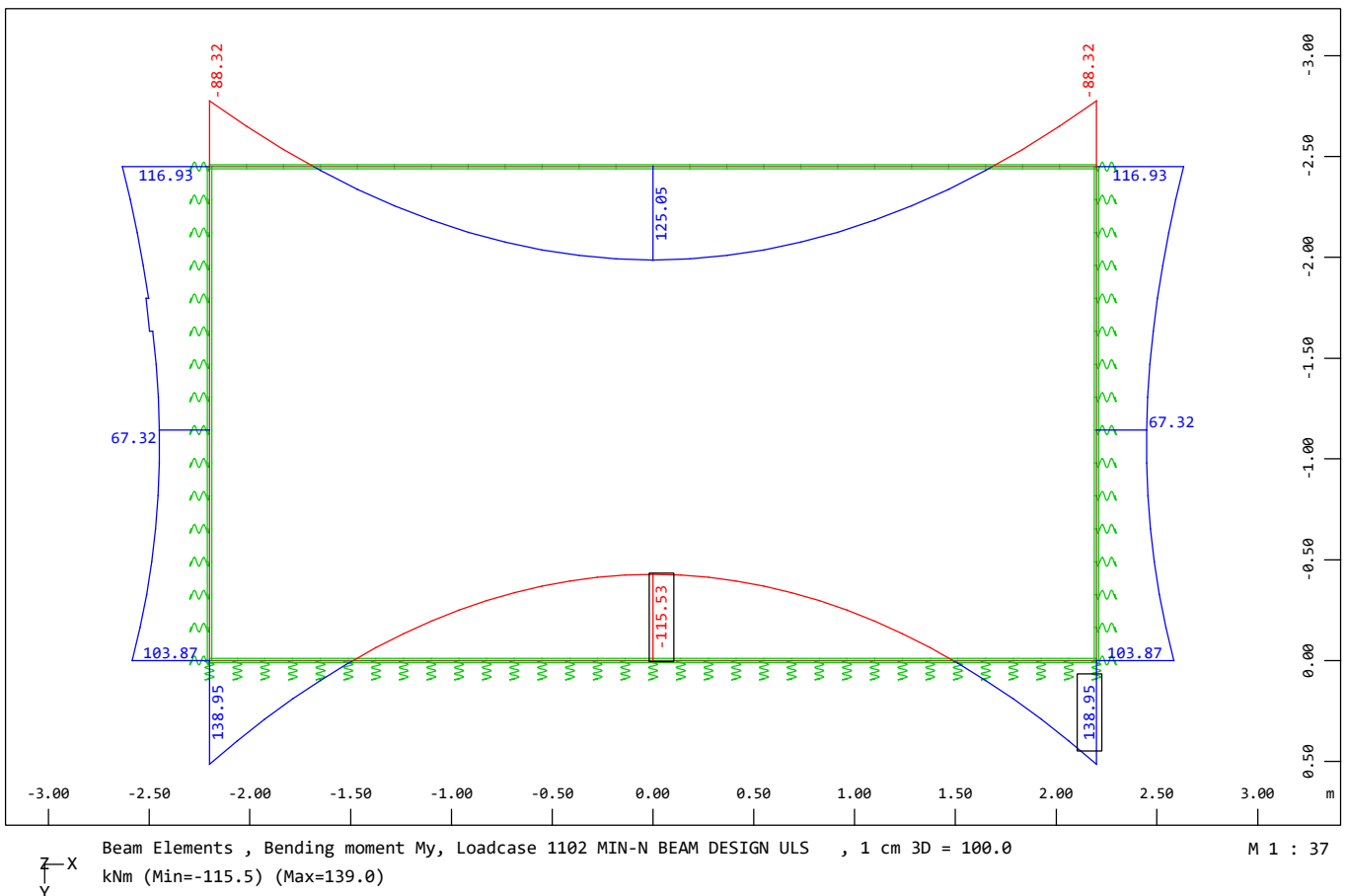
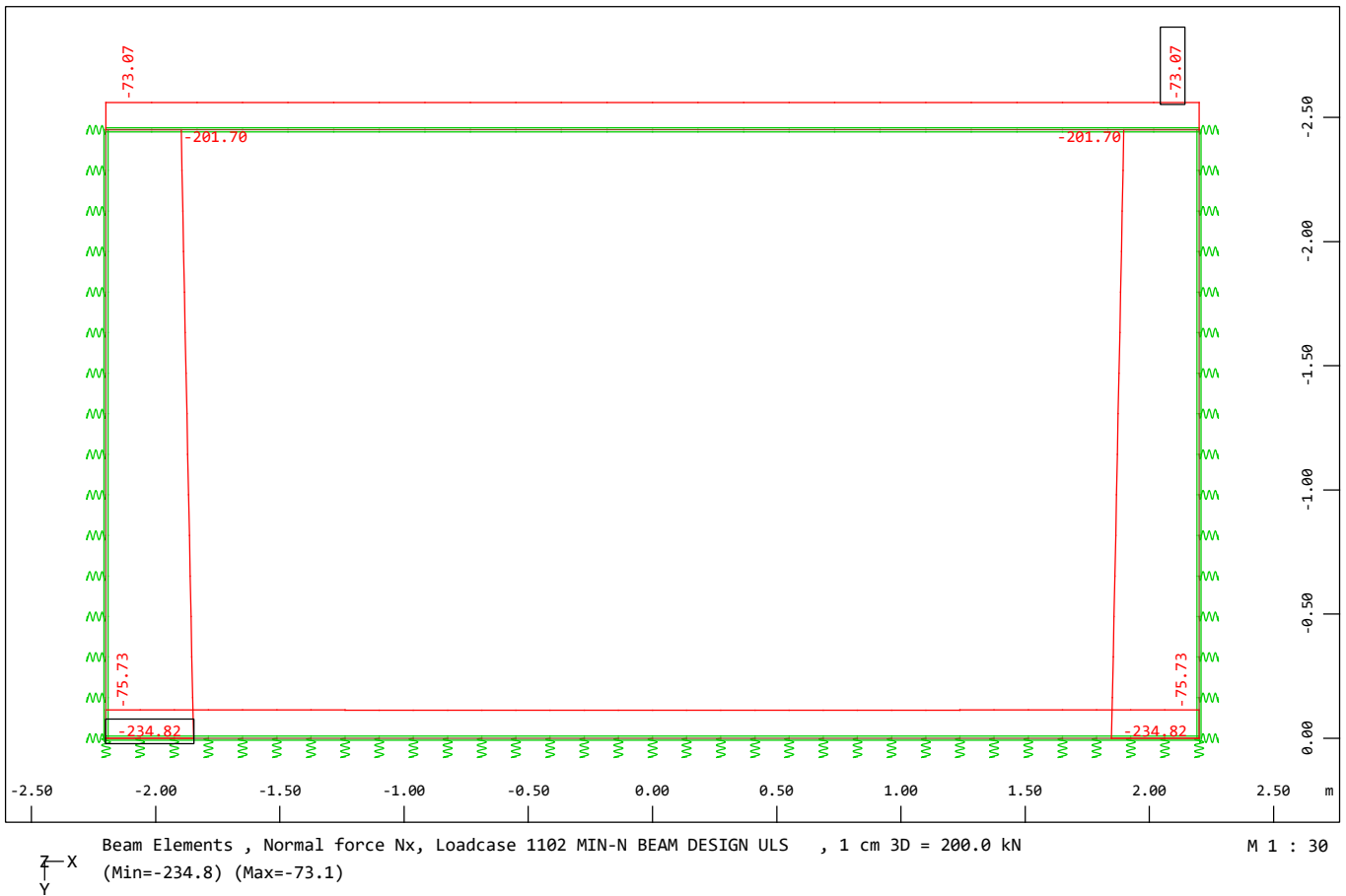
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- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



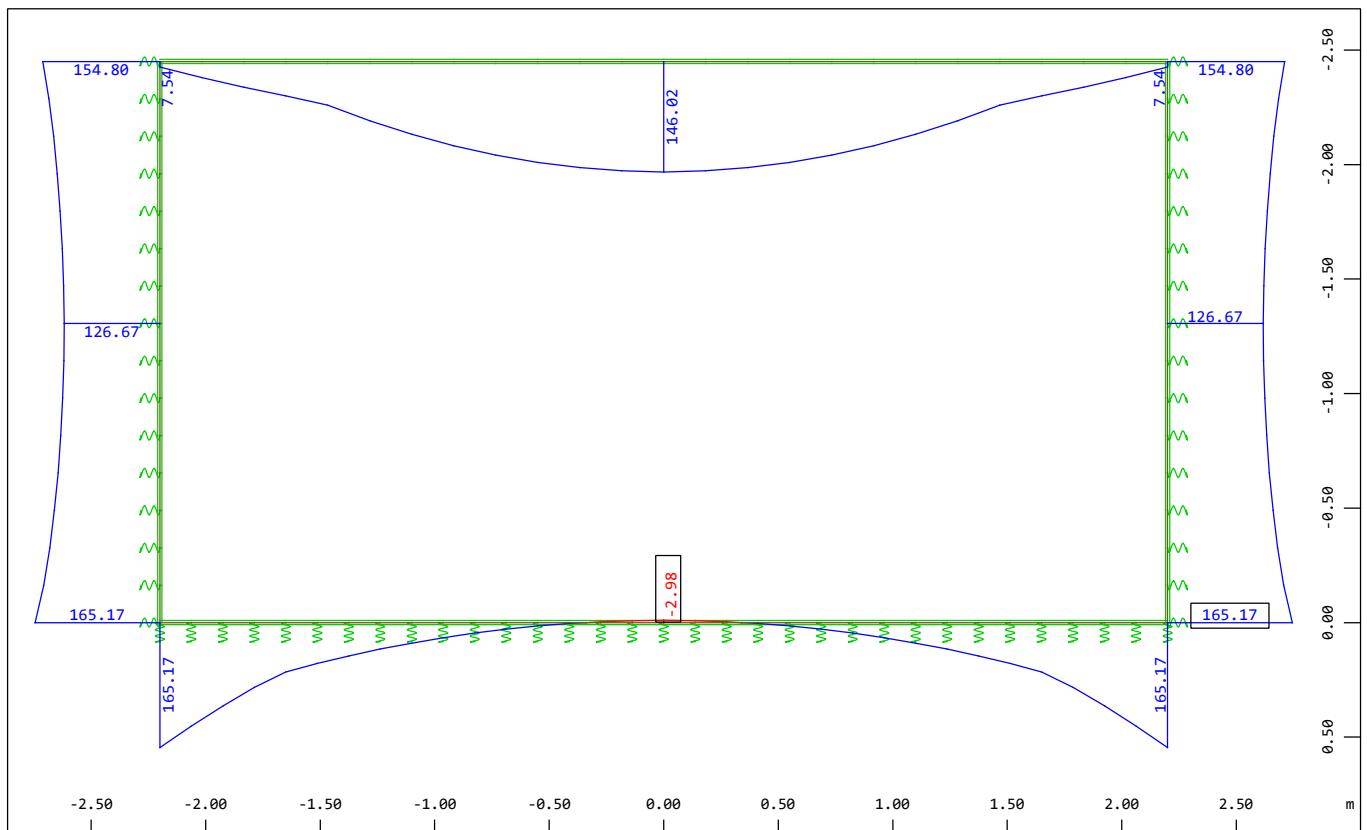
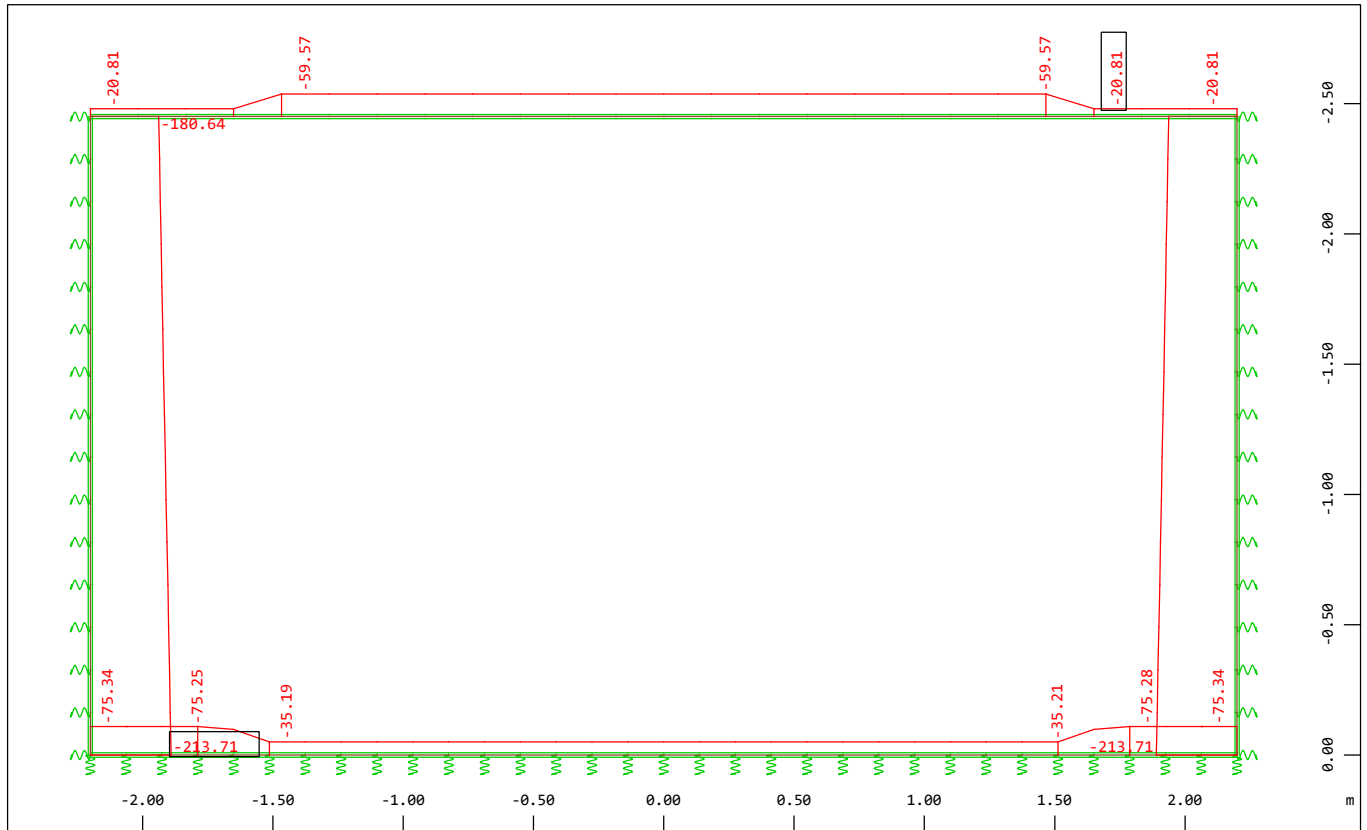
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- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



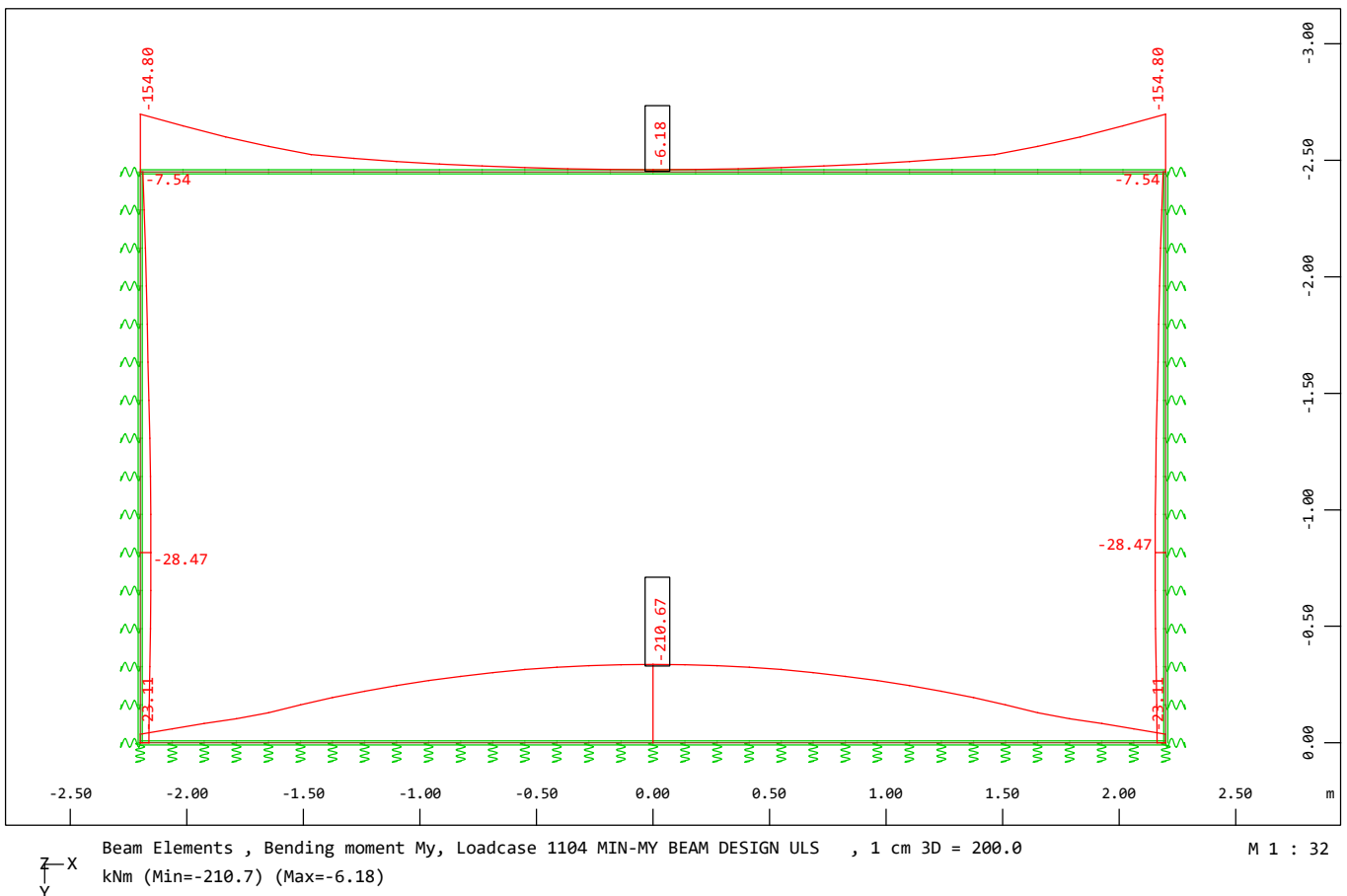
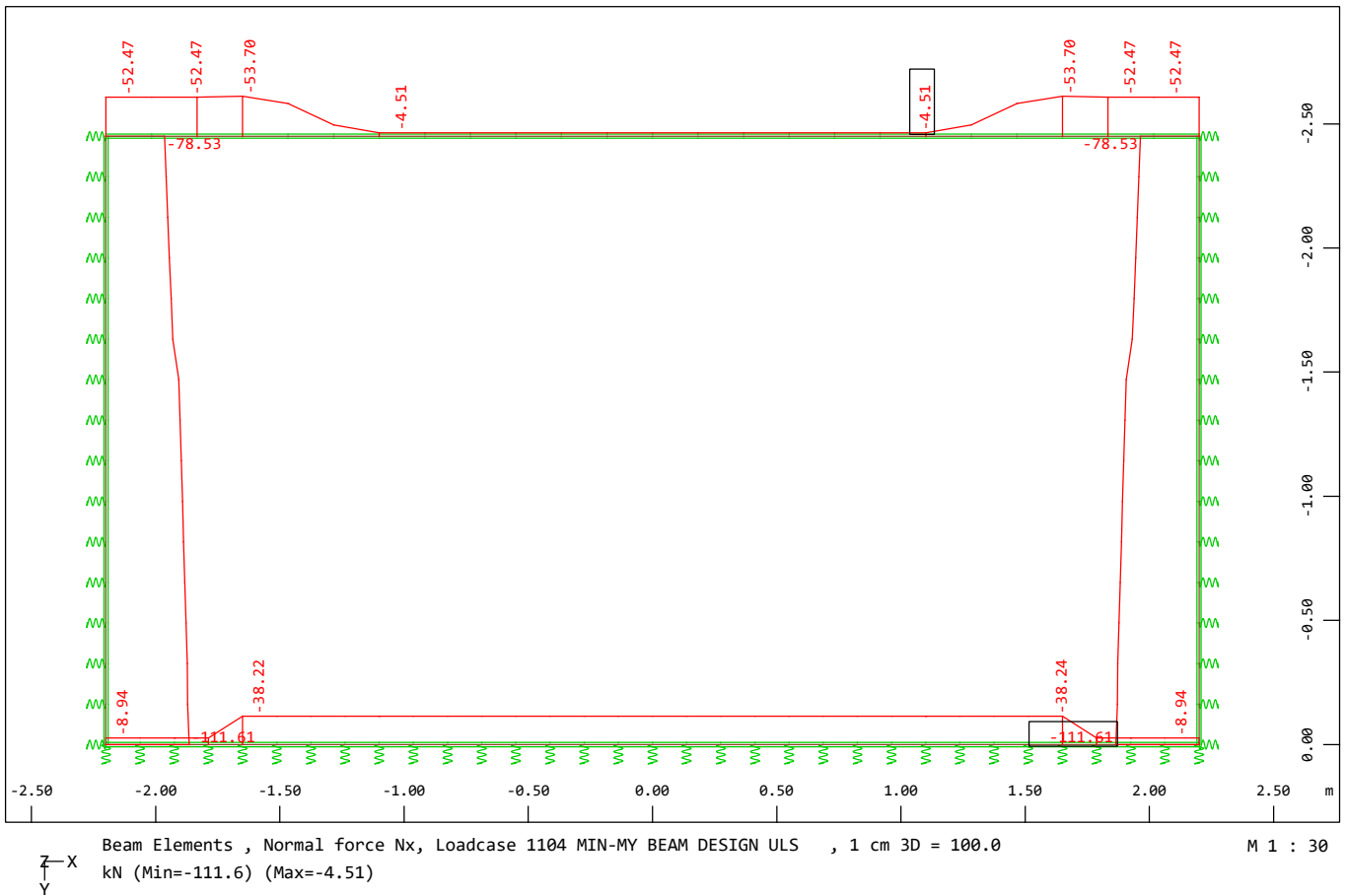
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- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



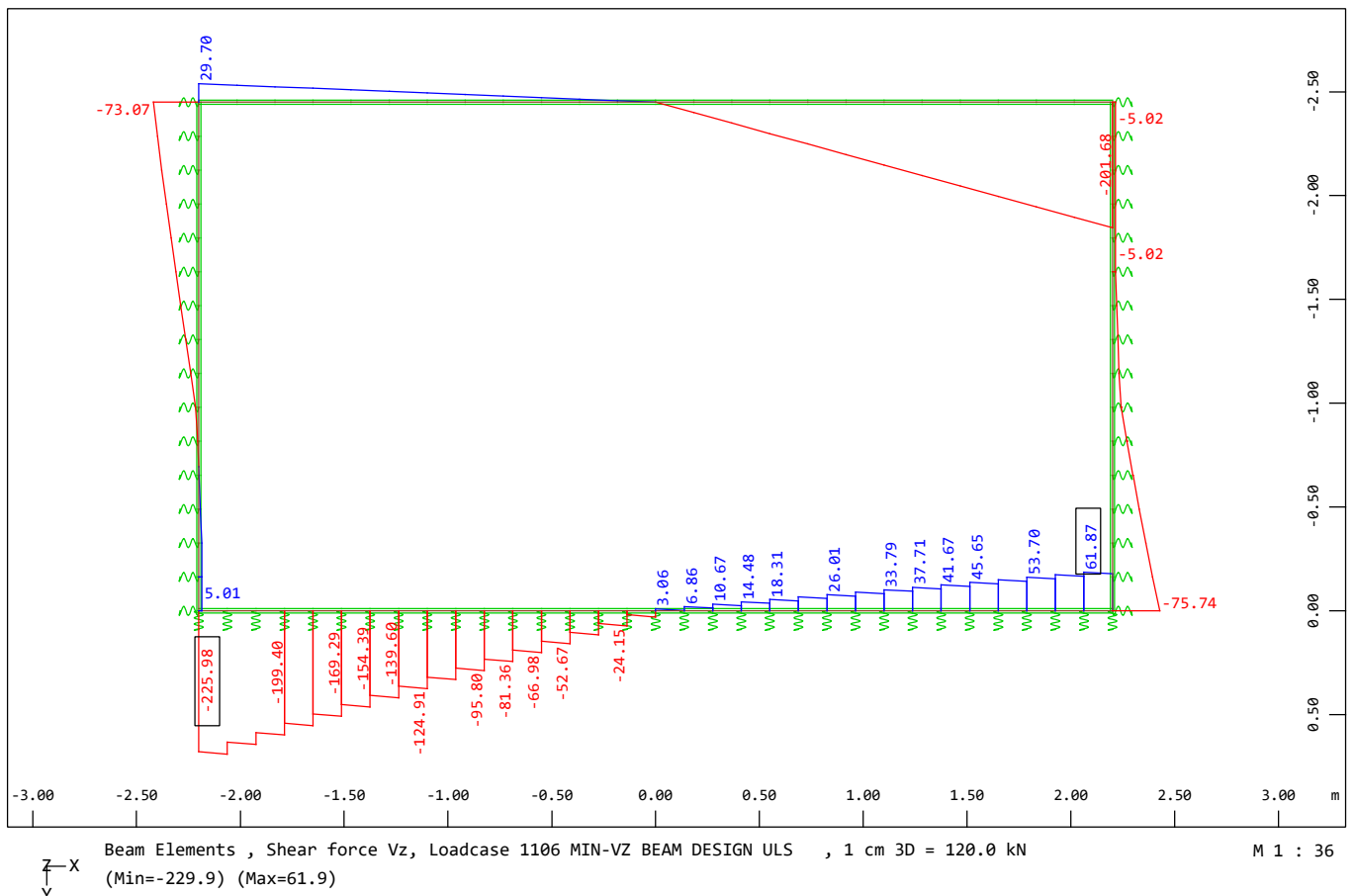
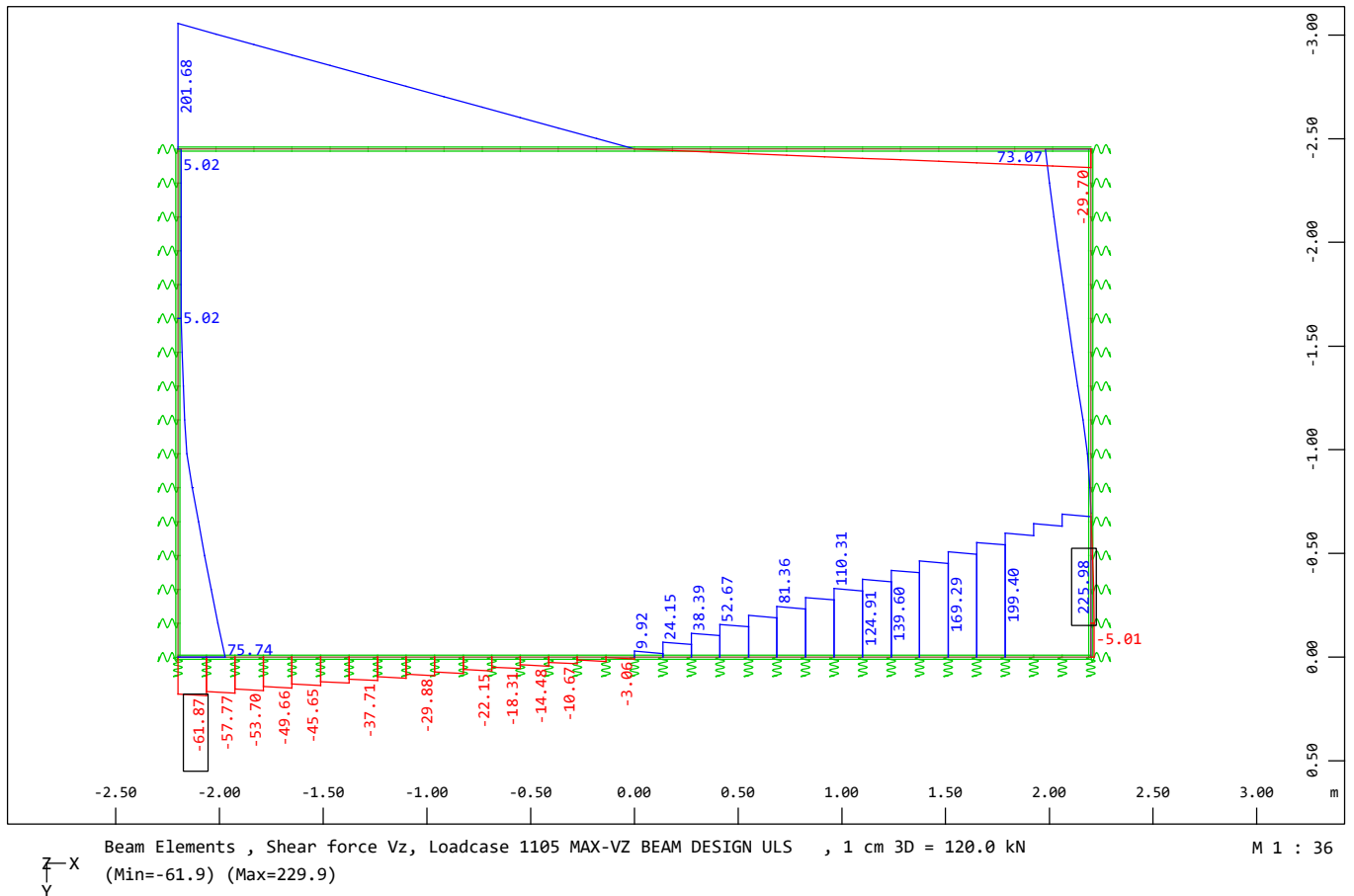
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΟΝ ΣΥΝΔΥΑΣΜΟΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α1 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 2
 Design combination
 Resulting Load Cases type ULS fundamental combination

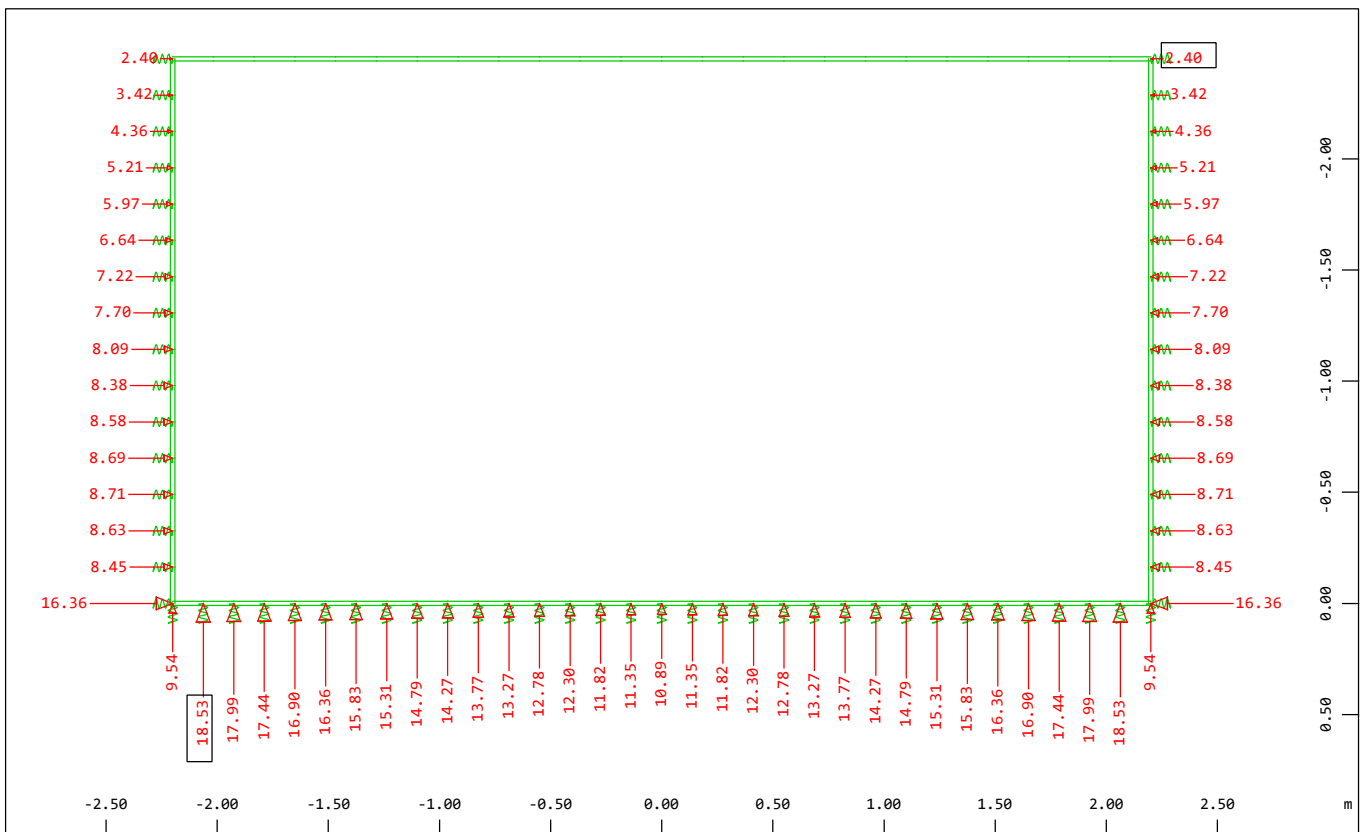
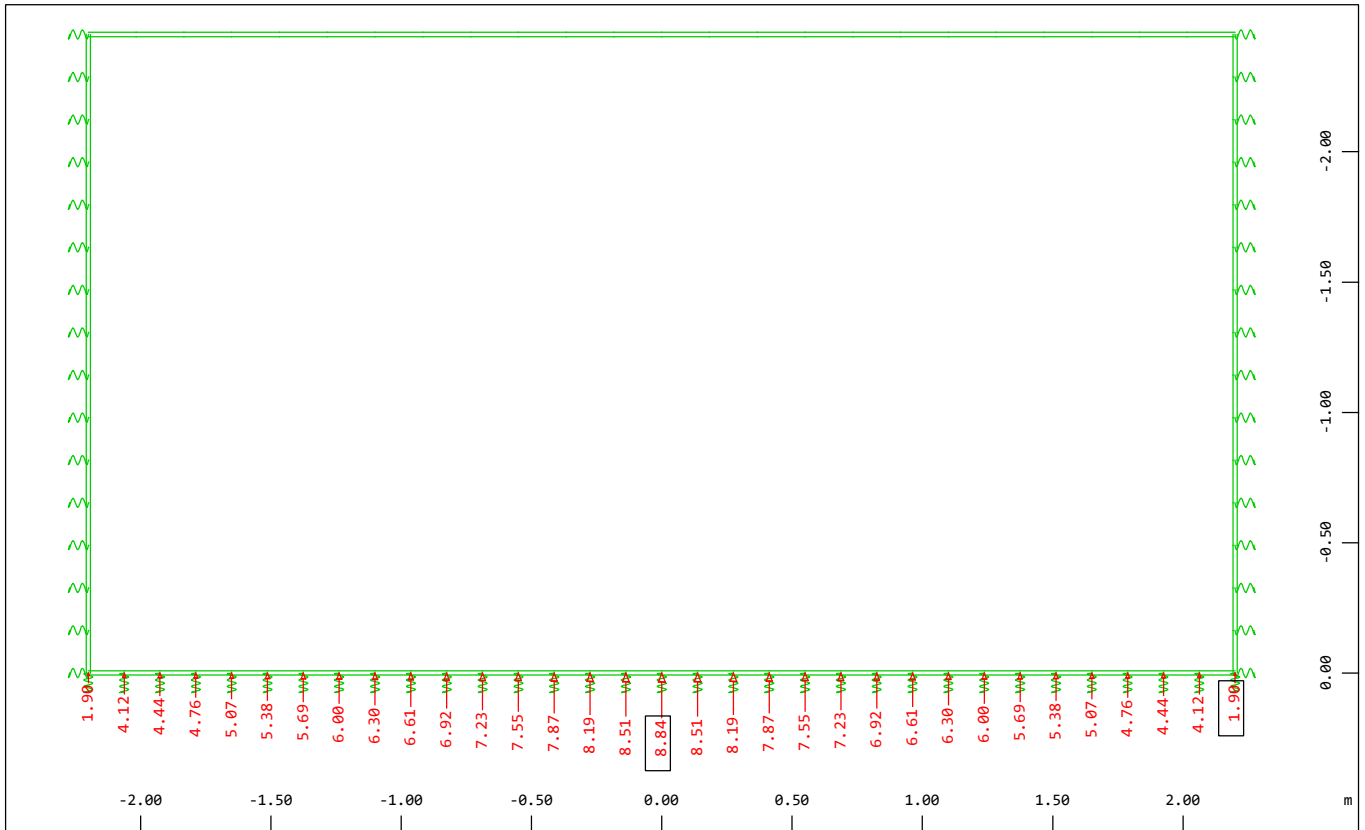
Load Case selection

Number	Fact	Type	Designation
311	1.00	AG1	G+C+R1+0.2(W+Q1)+EA1
312	1.00	AG1	G+C+R1+0.2(W+Q1)-EA1
313	1.00	AG1	G+C+R1+0.2(W+Q1)+ES1
321	1.00	AG1	G+C+R2+0.2(W+Q2)+EA2
322	1.00	AG1	G+C+R2+0.2(W+Q2)-EA2
323	1.00	AG1	G+C+R2+0.2(W+Q2)+ES2
Fact factor for load case Type type of the load case AG exclusive load permanent			

Generated Load Cases

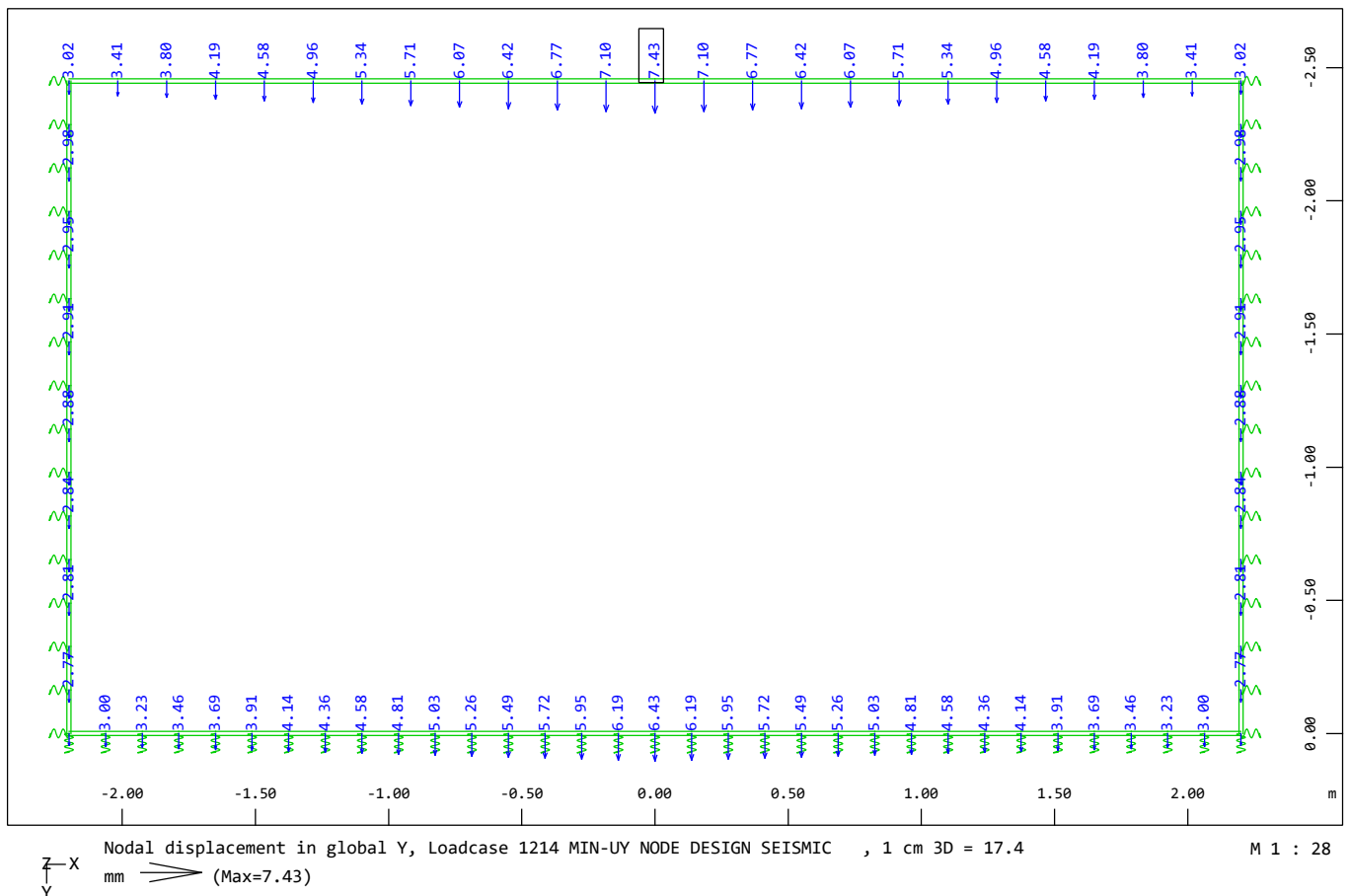
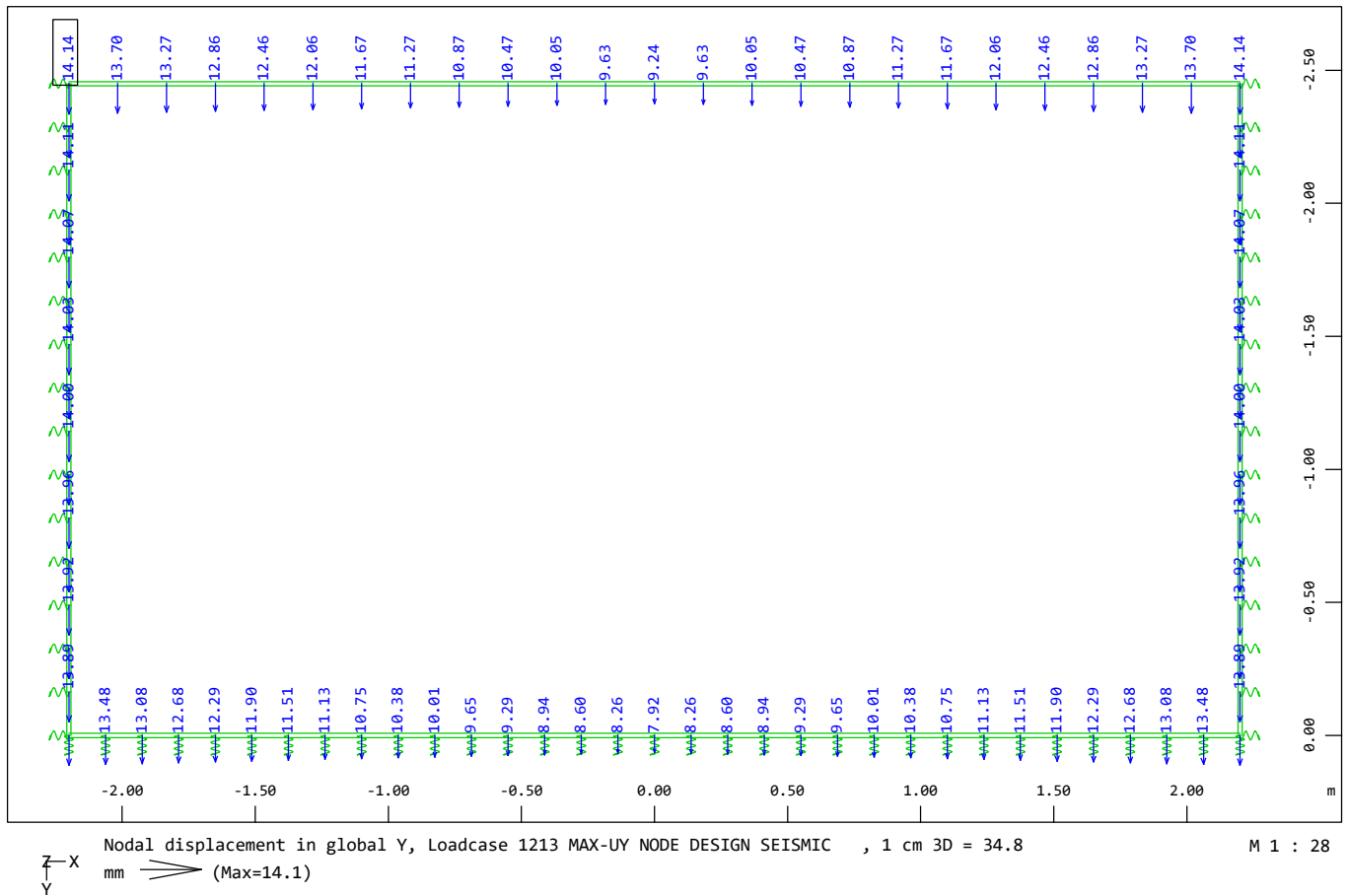
Number	Combination	Designation
1201	2	MAX-N BEAM DESIGN SEISMIC
1202	2	MIN-N BEAM DESIGN SEISMIC
1203	2	MAX-MY BEAM DESIGN SEISMIC
1204	2	MIN-MY BEAM DESIGN SEISMIC
1205	2	MAX-VZ BEAM DESIGN SEISMIC
1206	2	MIN-VZ BEAM DESIGN SEISMIC
1211	2	MAX-UX NODE DESIGN SEISMIC
1212	2	MIN-UX NODE DESIGN SEISMIC
1213	2	MAX-UY NODE DESIGN SEISMIC
1214	2	MIN-UY NODE DESIGN SEISMIC
1221	2	MAX-P SPRI DESIGN SEISMIC
1222	2	MIN-P SPRI DESIGN SEISMIC

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

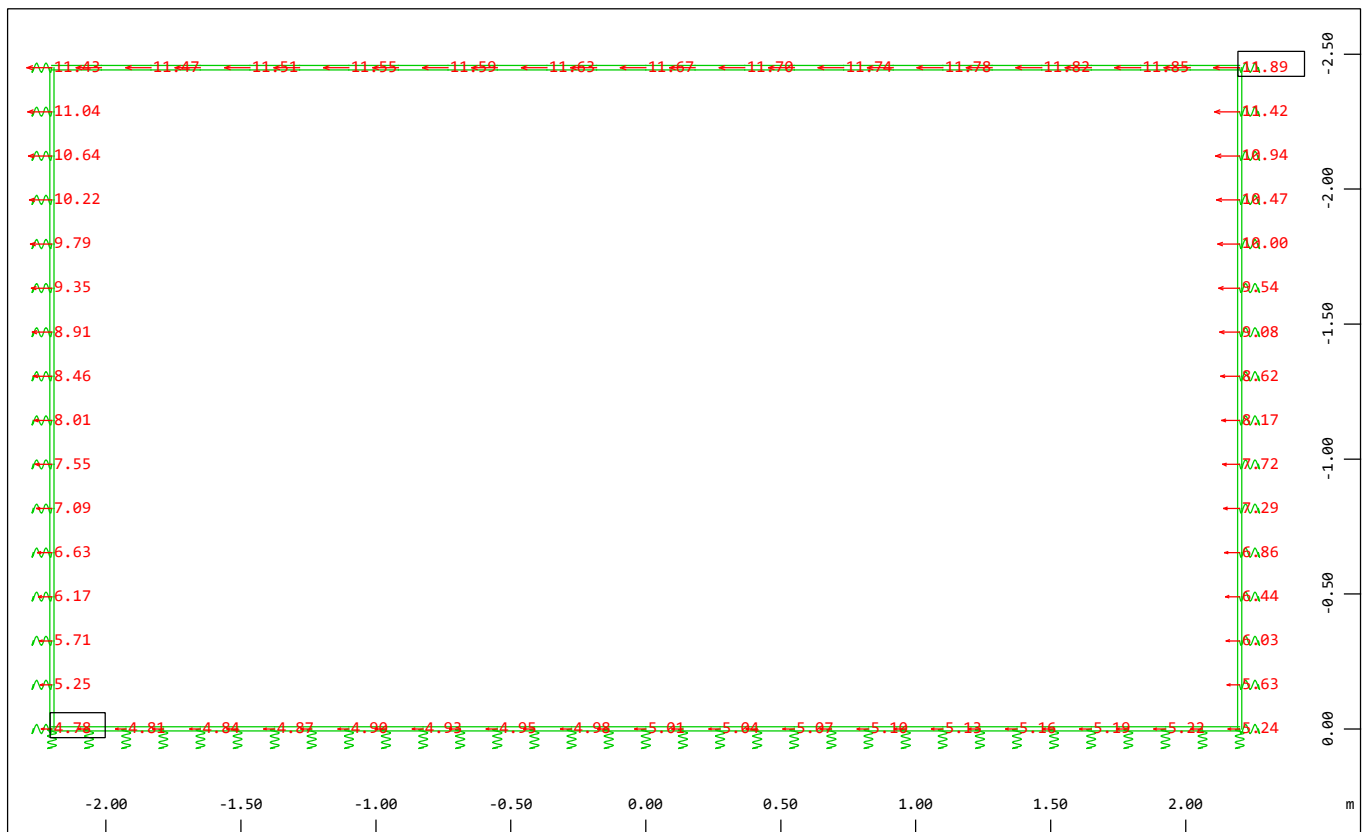
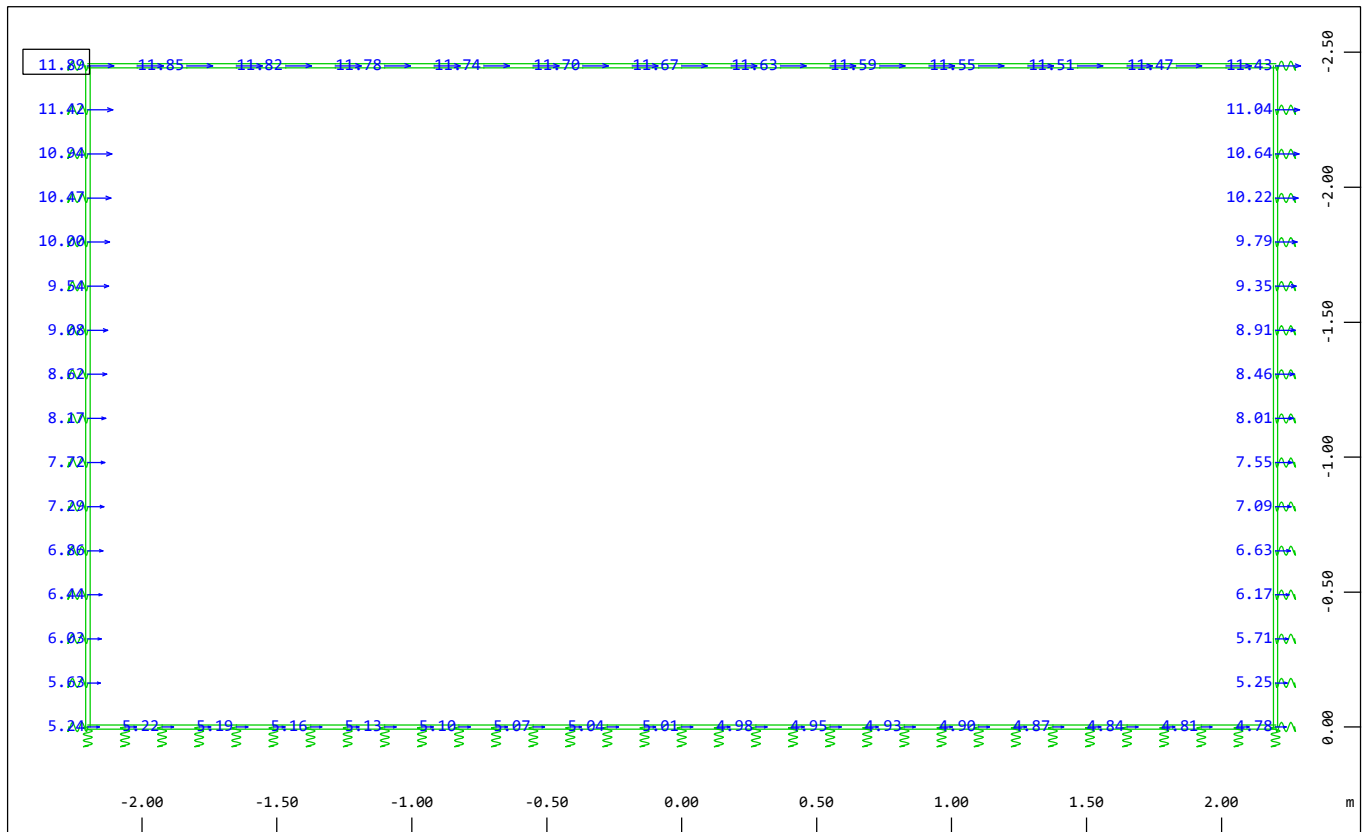


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

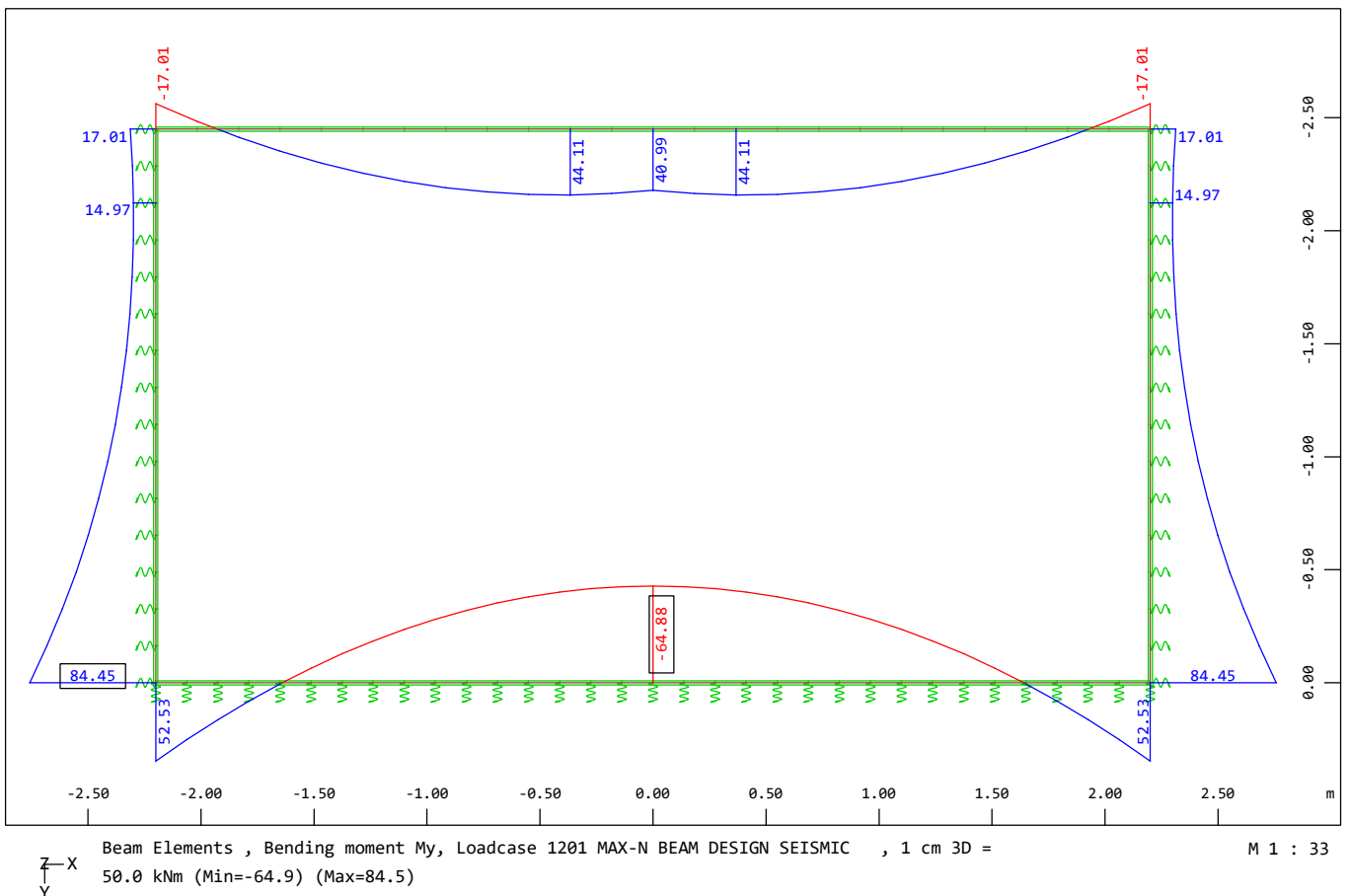
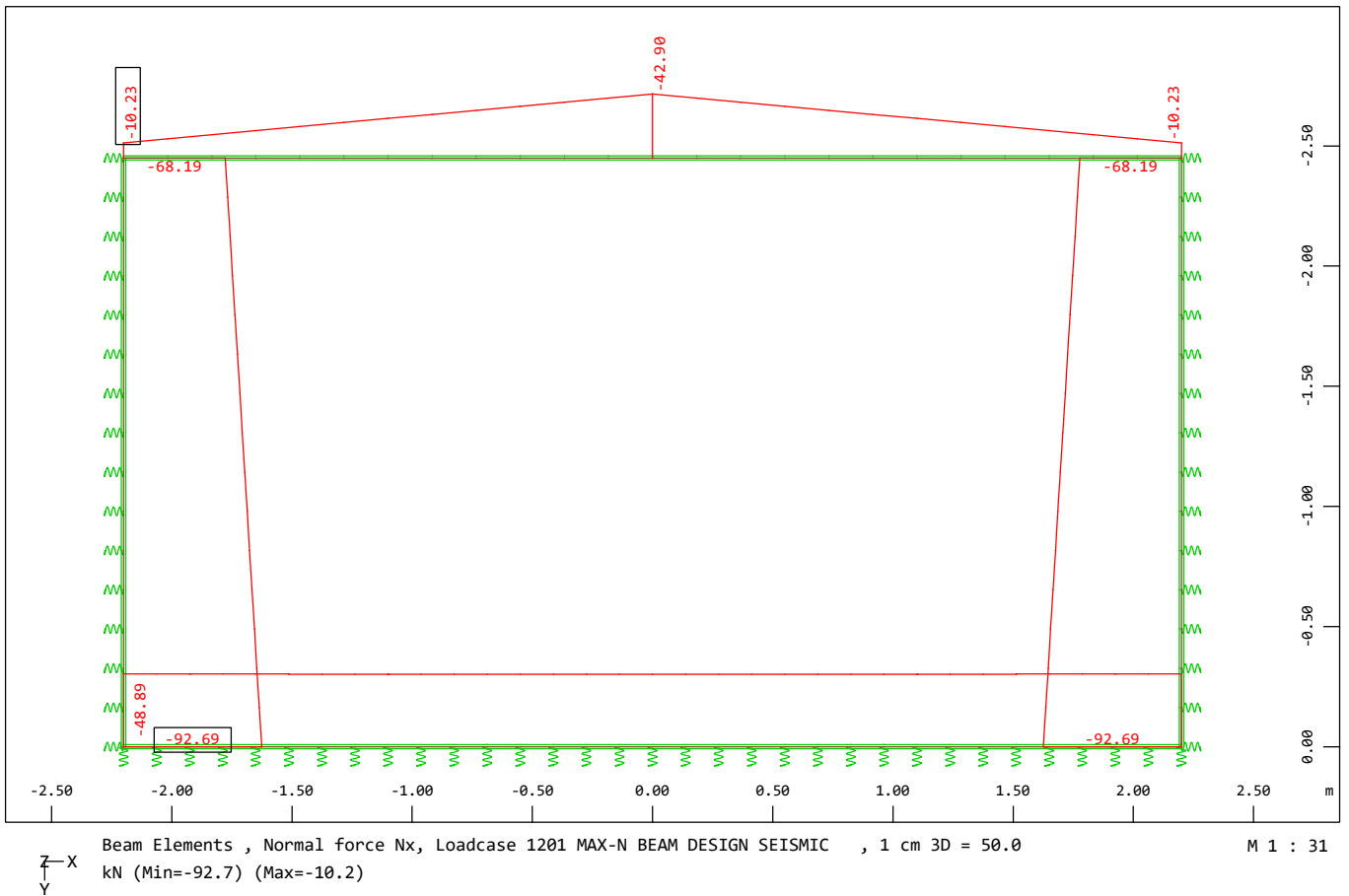
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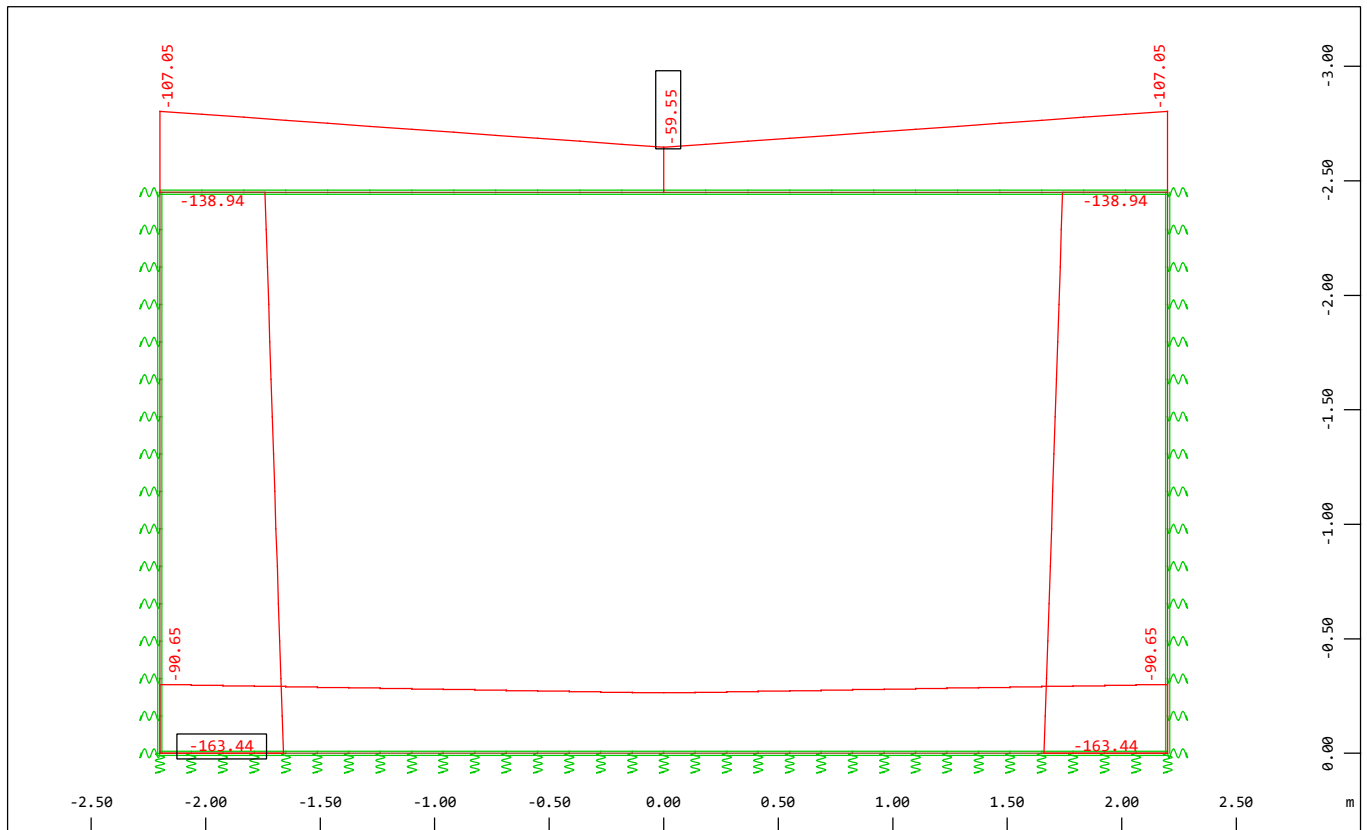
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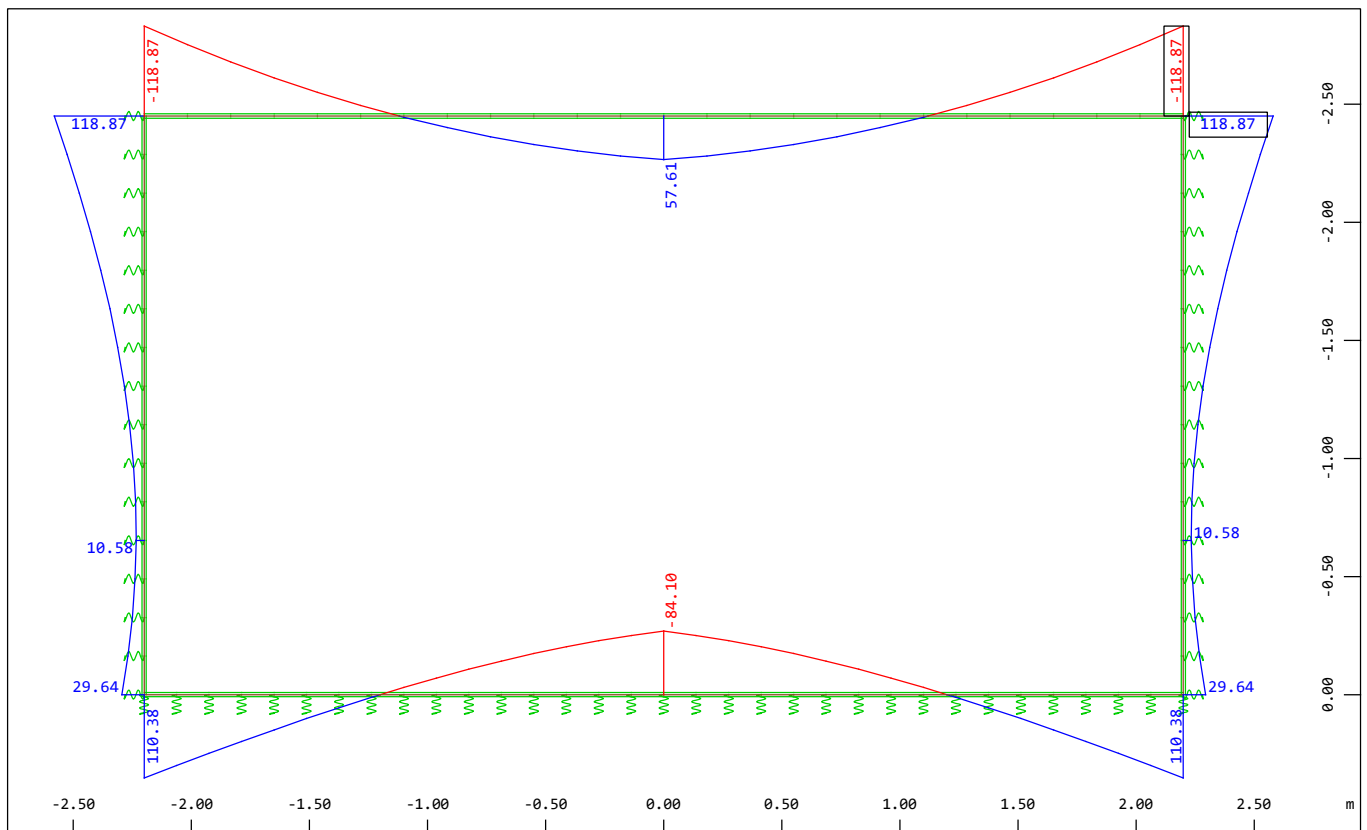
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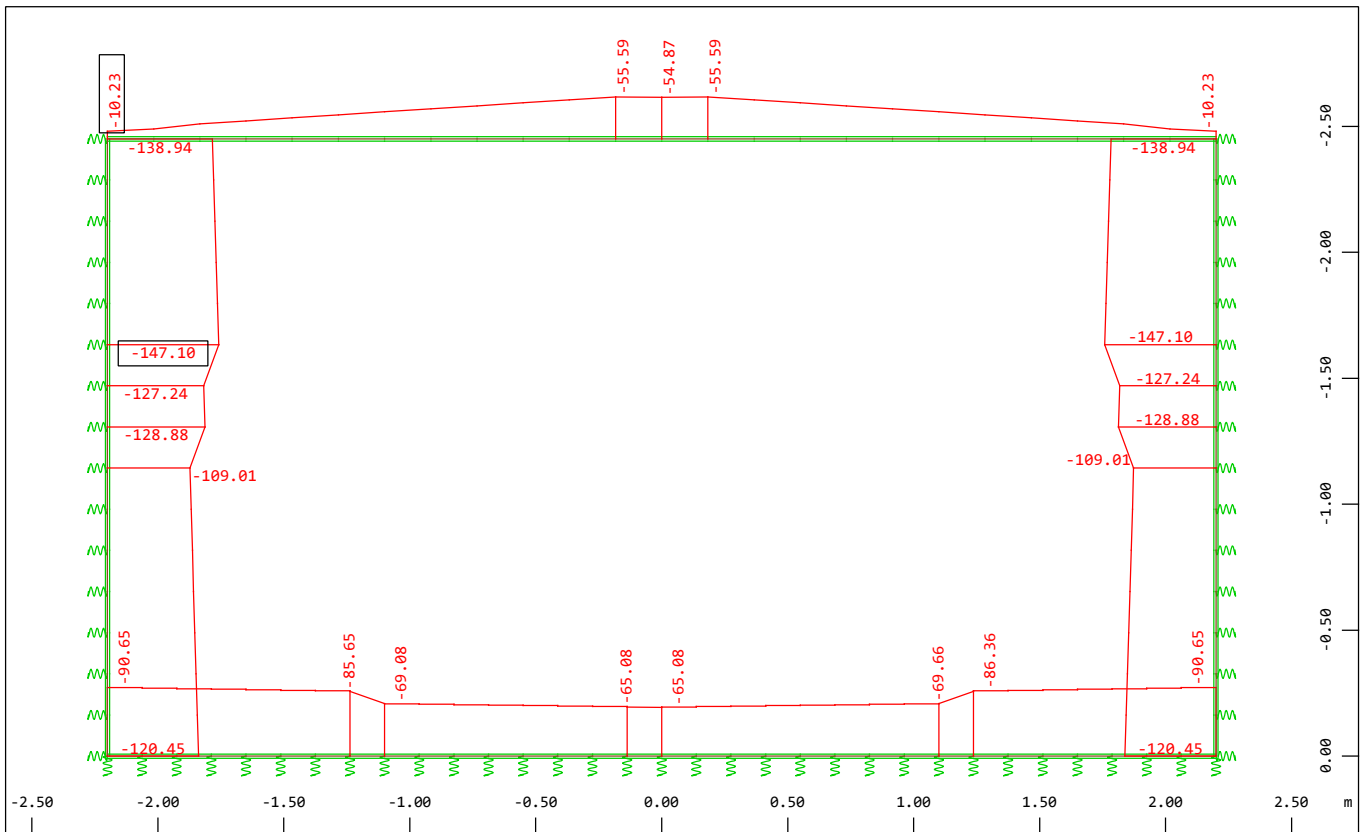


Beam Elements , Normal force N_x , Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 33
100.0 kN (Min=-163.4) (Max=-59.5)



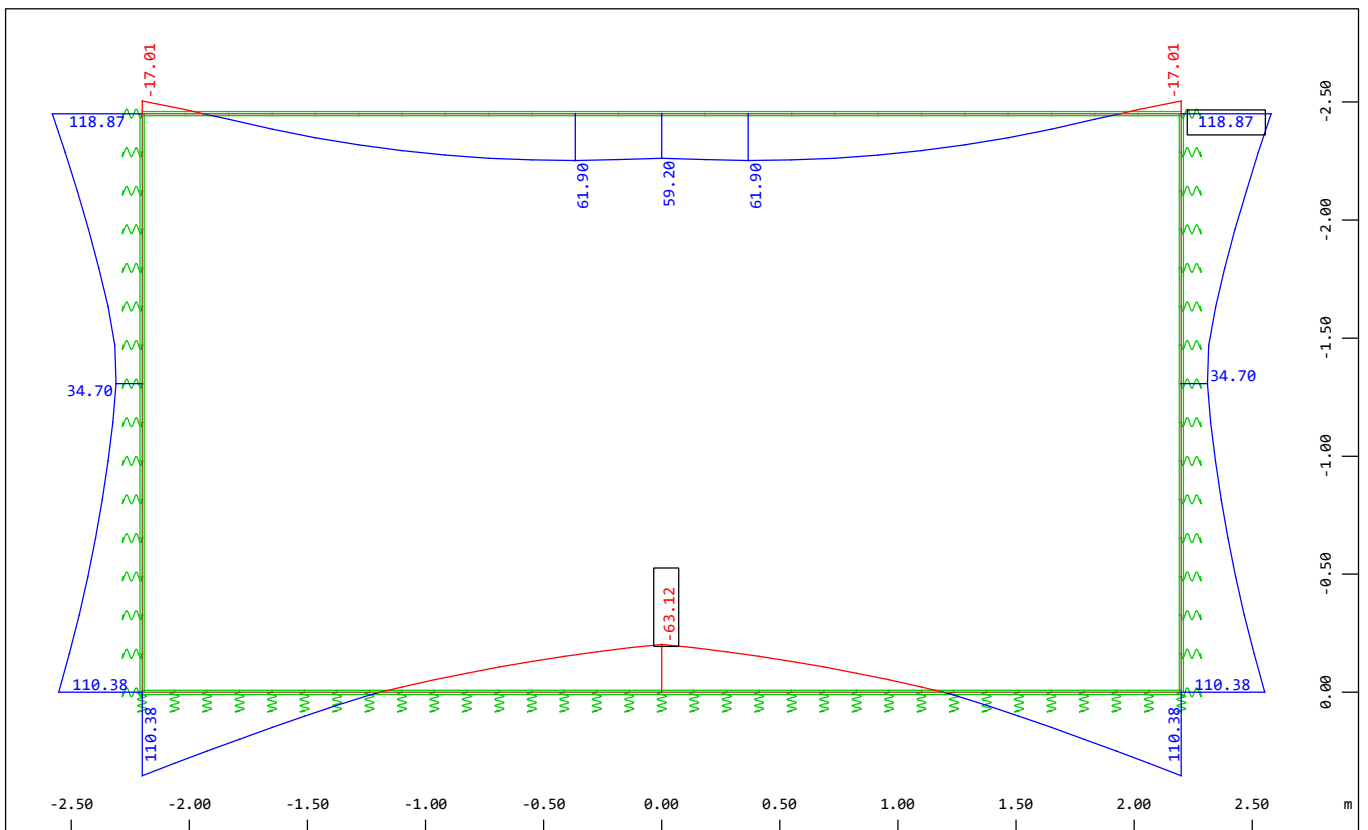
Beam Elements , Bending moment M_y , Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 32
100.0 kNm (Min=-118.9) (Max=118.9)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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Beam Elements , Normal force Nx, Loadcase 1203 MAX-MY BEAM DESIGN SEISMIC , 1 cm 3D = 100.0 kN (Min=-147.1) (Max=-10.2)

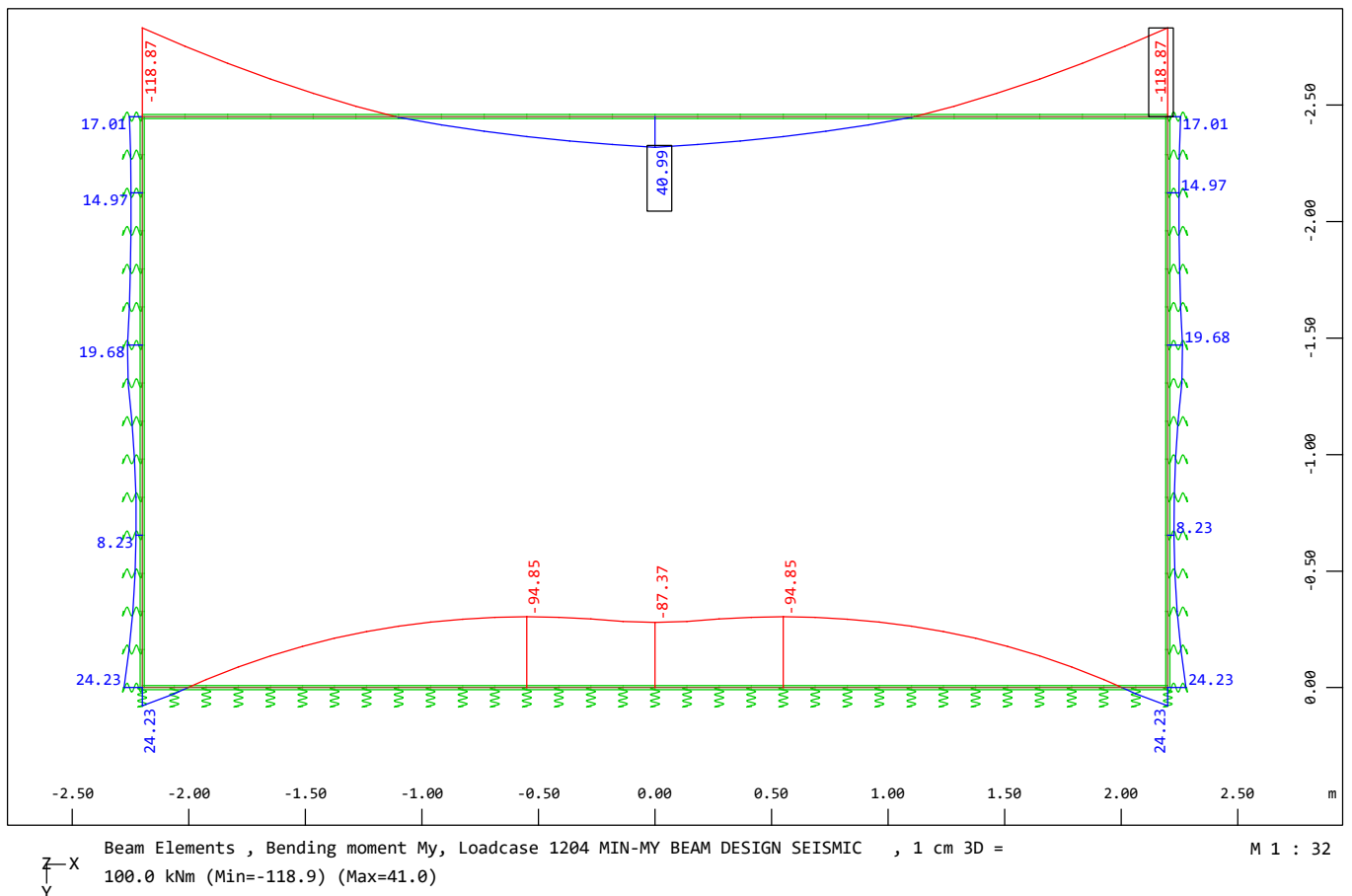
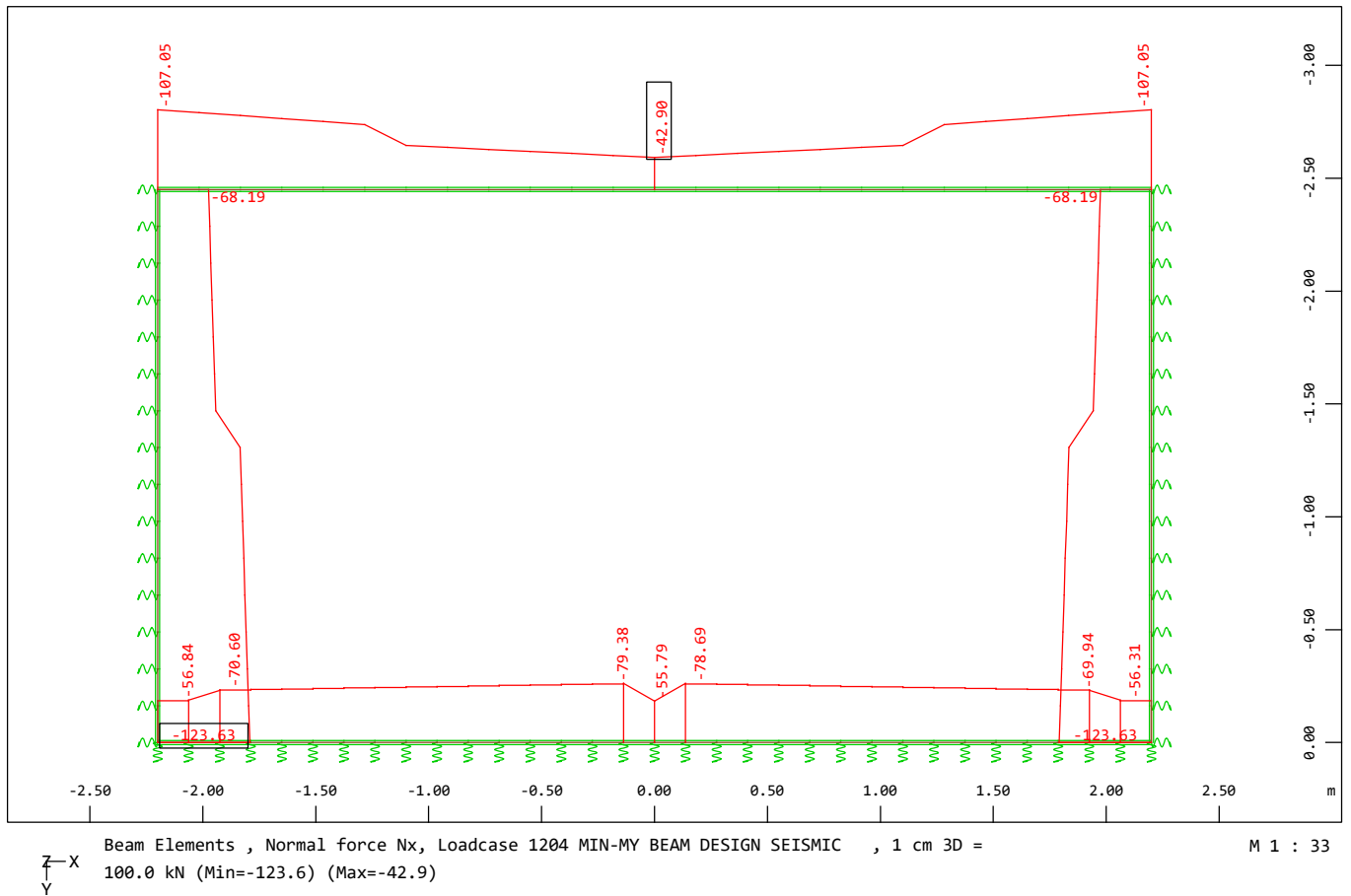
M 1 : 30



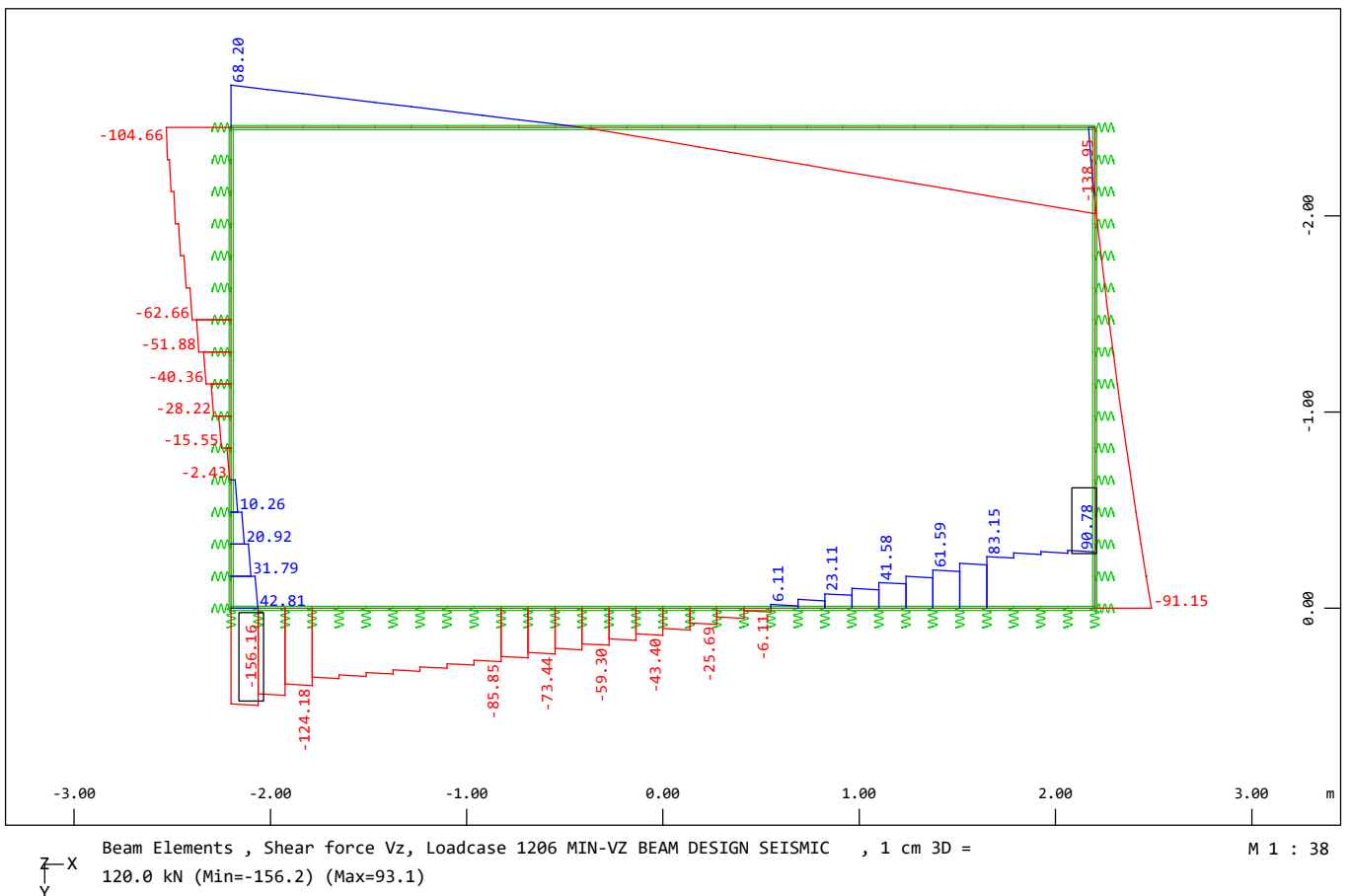
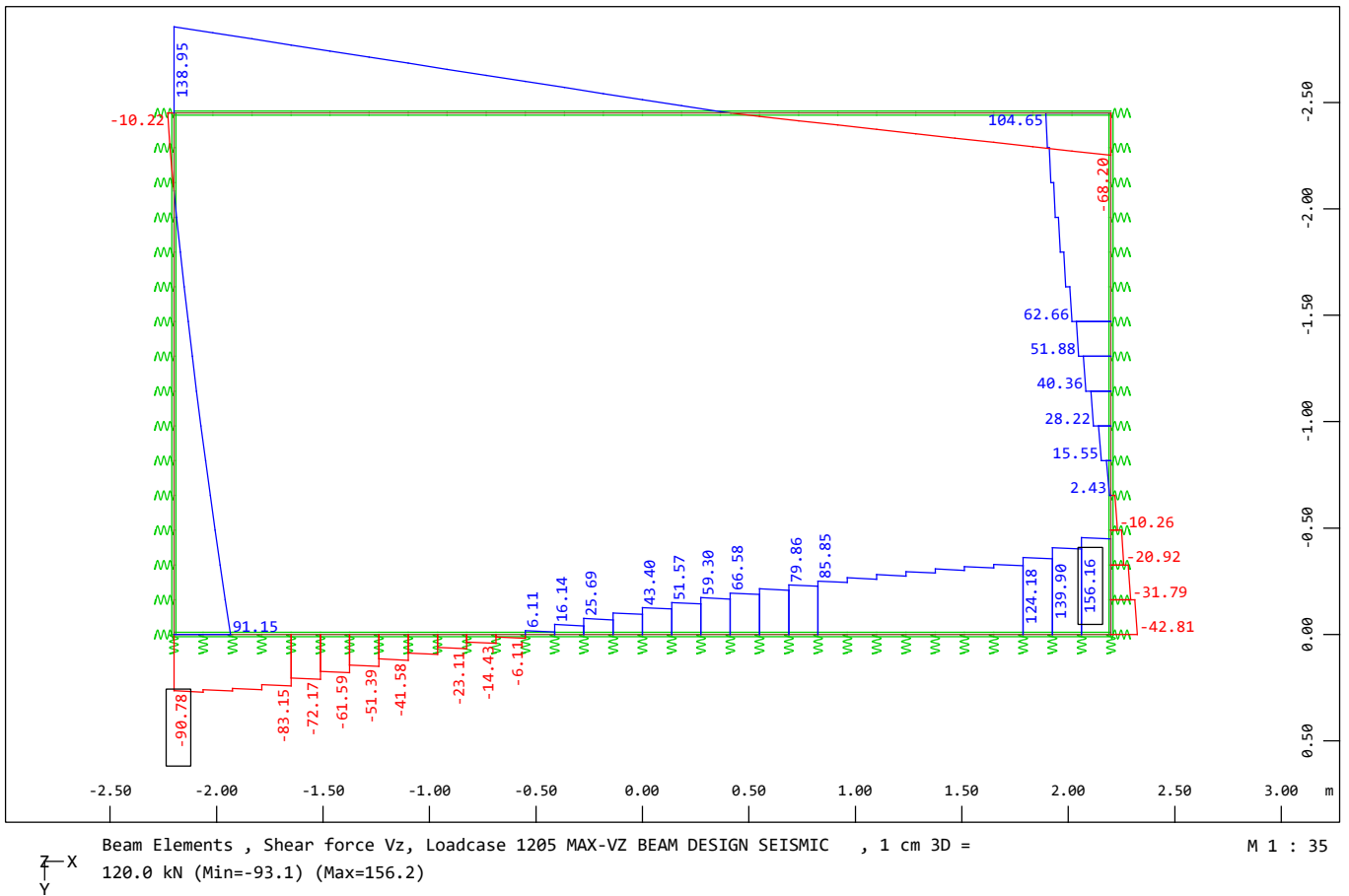
Beam Elements , Bending moment My, Loadcase 1203 MAX-MY BEAM DESIGN SEISMIC , 1 cm 3D = 100.0 kNm (Min=-63.1) (Max=118.9)

M 1 : 32

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

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- ΑΓΩΓΟΣ Α1 -

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 3

Design combination

Resulting Load Cases type ULS fundamental combination

Load Case selection

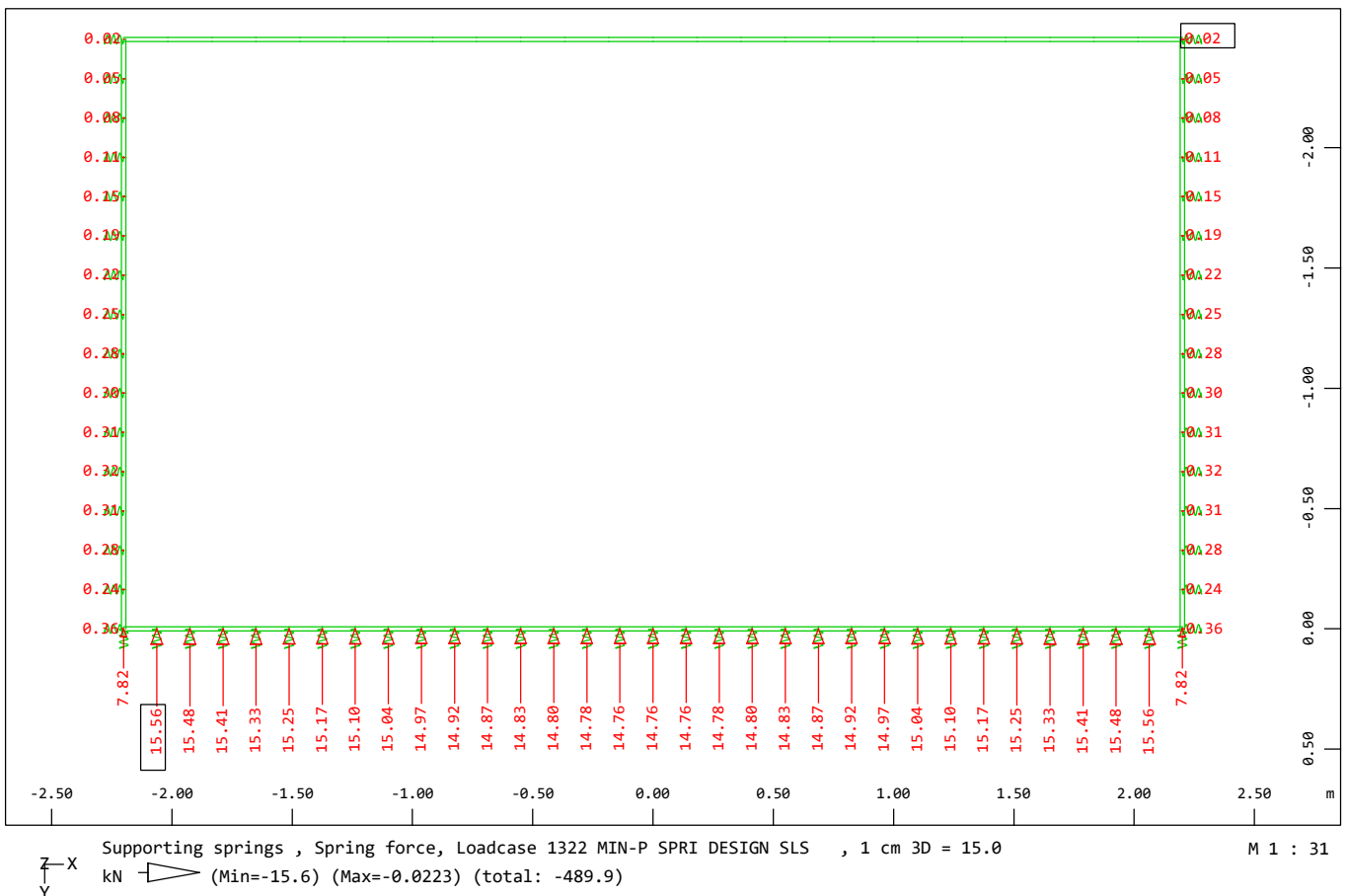
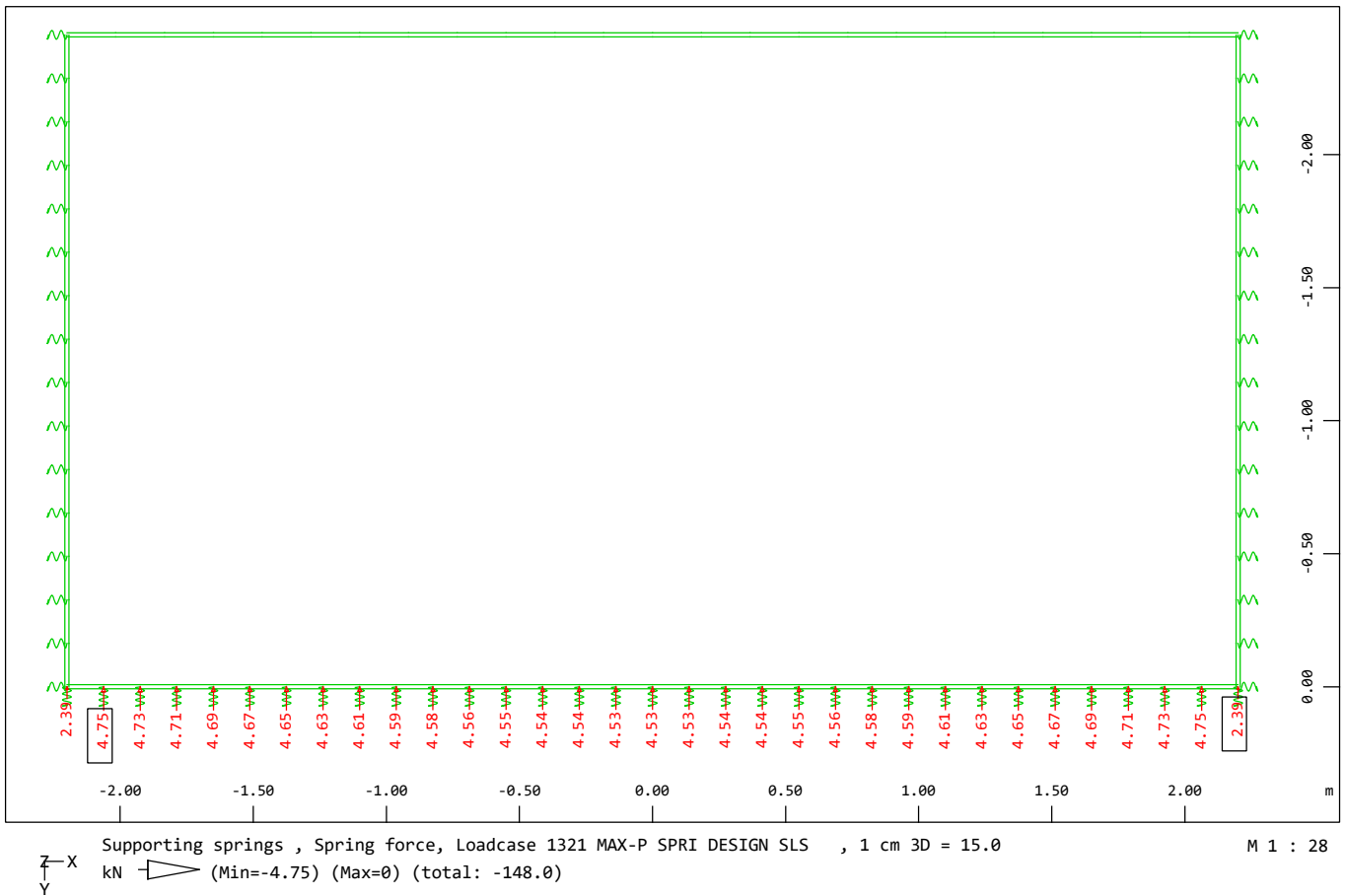
Number	Fact	Type	Designation
400	1.00	AG1	G+C
411	1.00	AG1	G+C+R1
412	1.00	AG1	G+C+R1+W
413	1.00	AG1	G+C+R1+Q1
414	1.00	AG1	G+C+R1+W+Q1
415	1.00	AG1	G+C+R1+T
416	1.00	AG1	G+C+R1+T
417	1.00	AG1	G+C+R1+T
418	1.00	AG1	G+C+R1+T
421	1.00	AG1	G+C+R2
422	1.00	AG1	G+C+R2+W
423	1.00	AG1	G+C+R2+Q2
424	1.00	AG1	G+C+R2+W+Q2
425	1.00	AG1	G+C+R2+T
426	1.00	AG1	G+C+R2+T
427	1.00	AG1	G+C+R2+T
428	1.00	AG1	G+C+R2+T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

Number	Combination	Designation
1301	3	MAX-N BEAM DESIGN SLS
1302	3	MIN-N BEAM DESIGN SLS
1303	3	MAX-MY BEAM DESIGN SLS
1304	3	MIN-MY BEAM DESIGN SLS
1305	3	MAX-VZ BEAM DESIGN SLS
1306	3	MIN-VZ BEAM DESIGN SLS
1311	3	MAX-UX NODE DESIGN SLS
1312	3	MIN-UX NODE DESIGN SLS
1313	3	MAX-UY NODE DESIGN SLS
1314	3	MIN-UY NODE DESIGN SLS
1321	3	MAX-P SPRI DESIGN SLS
1322	3	MIN-P SPRI DESIGN SLS

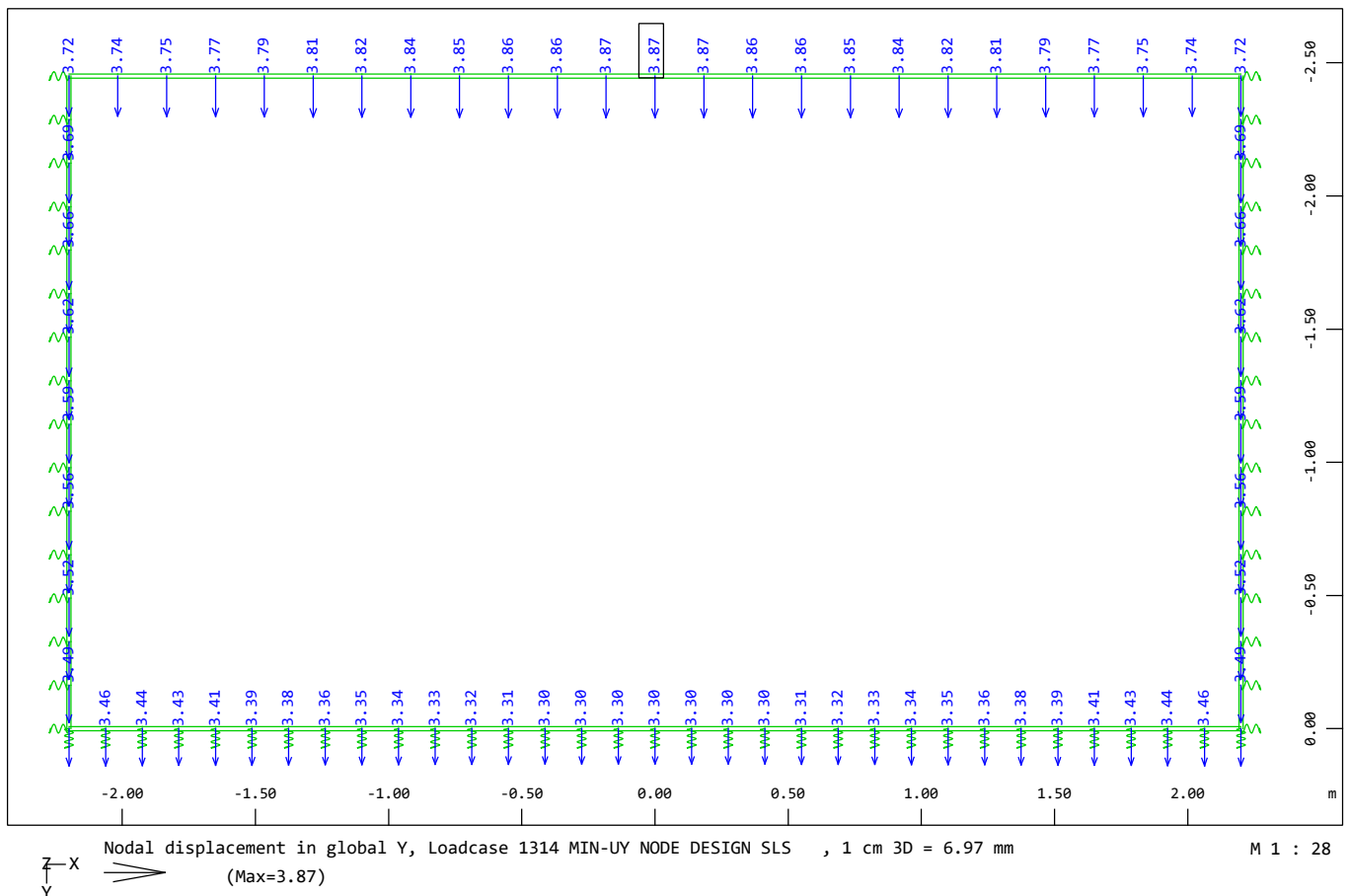
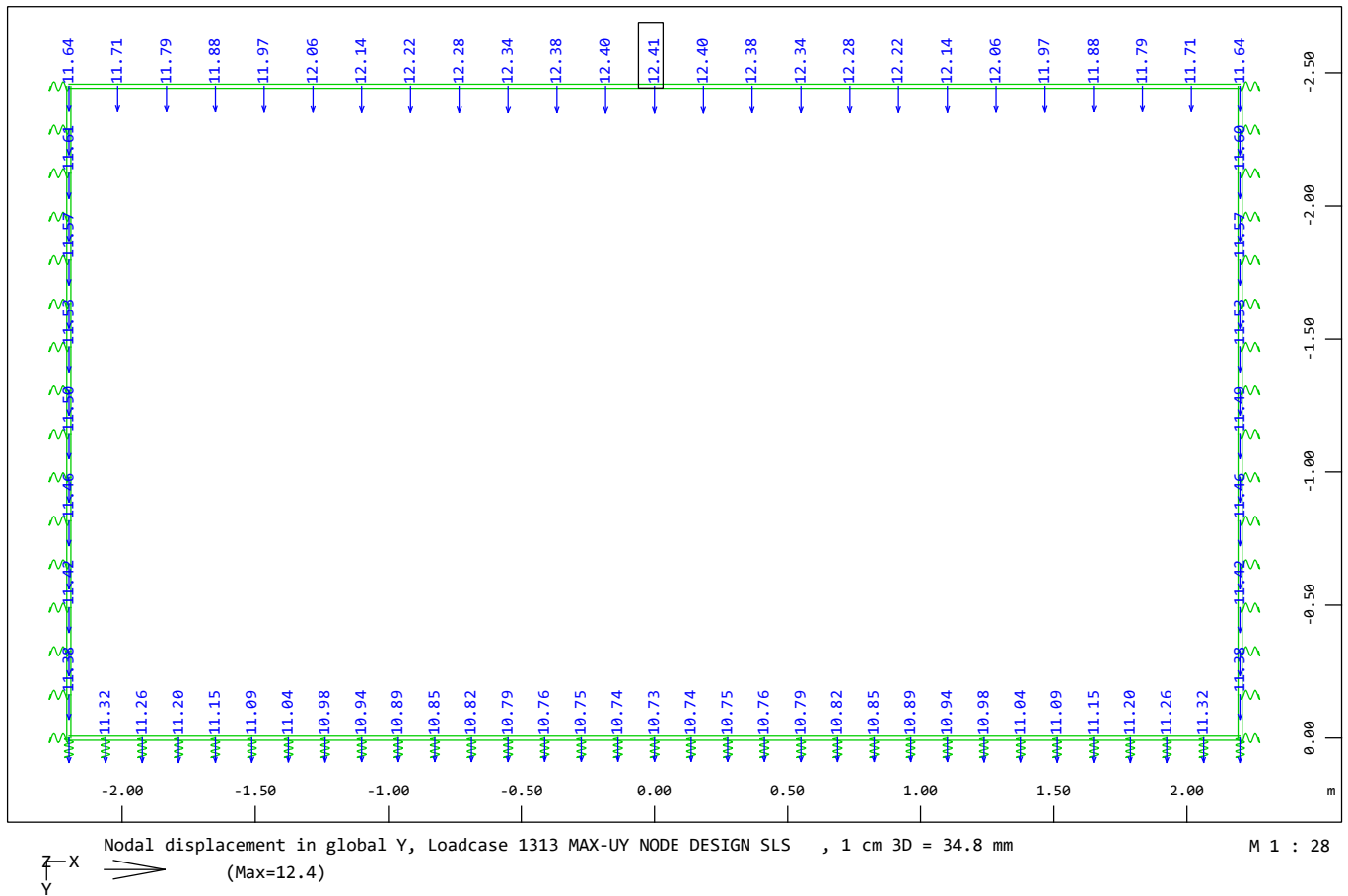
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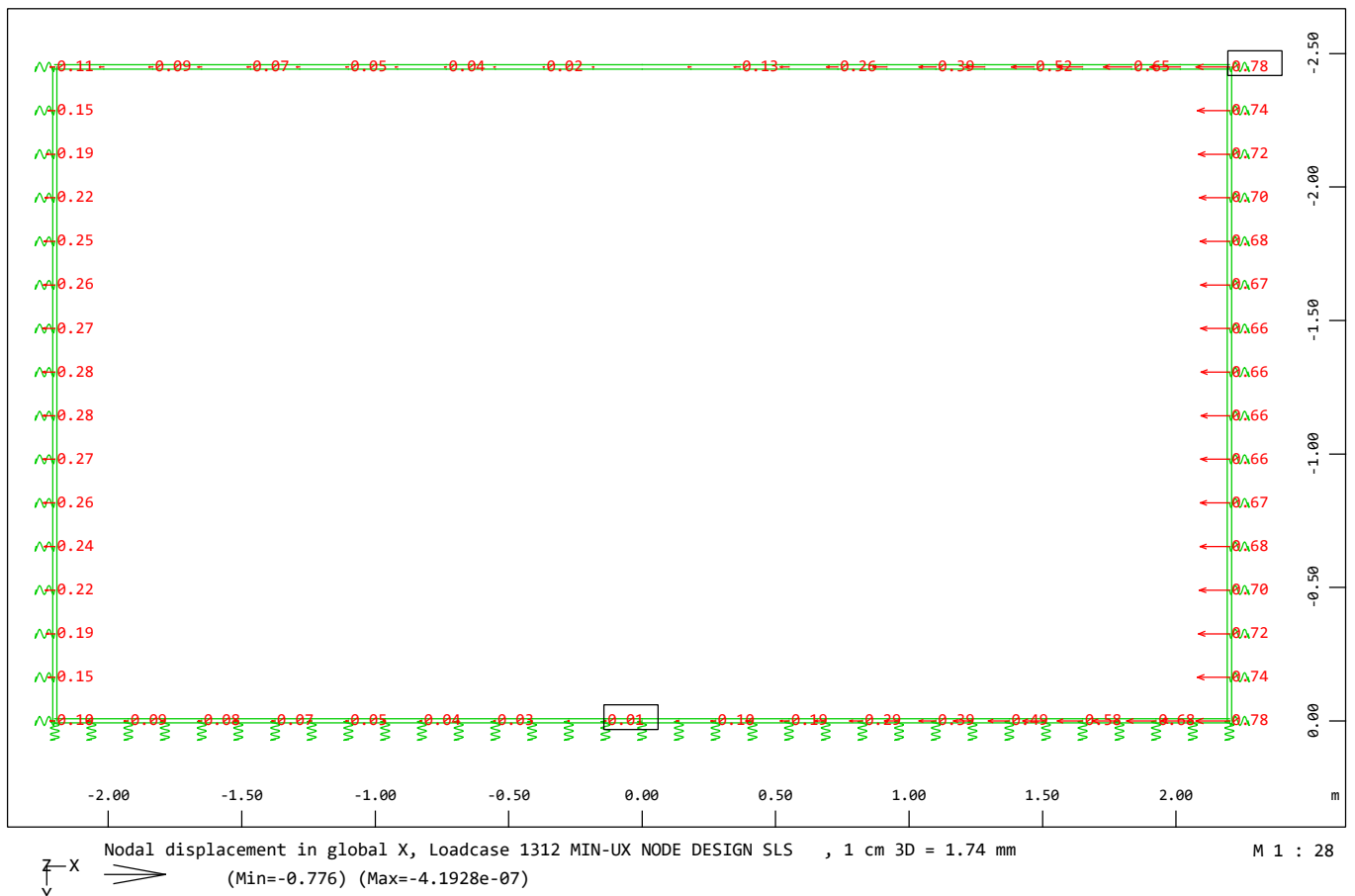
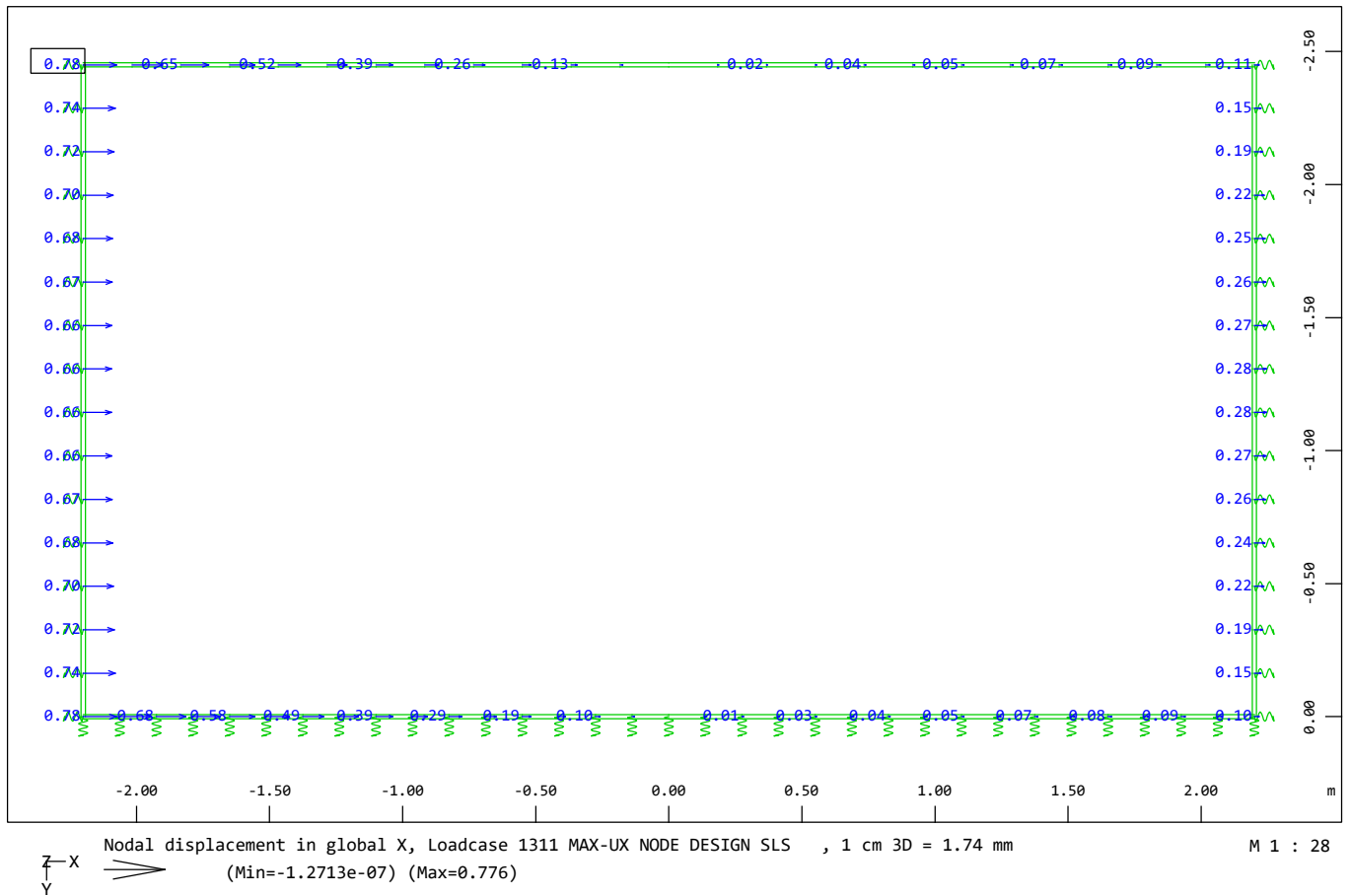


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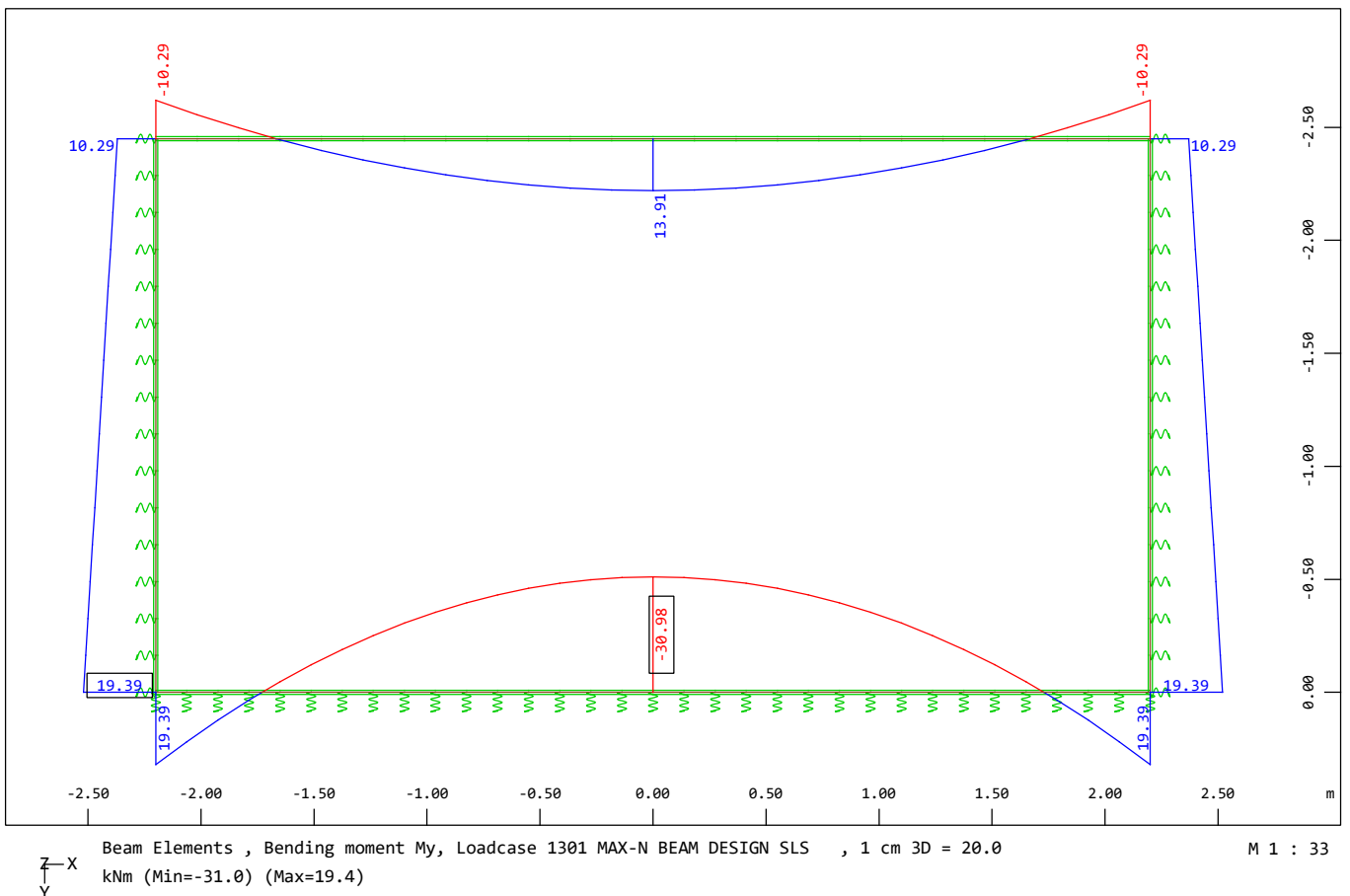
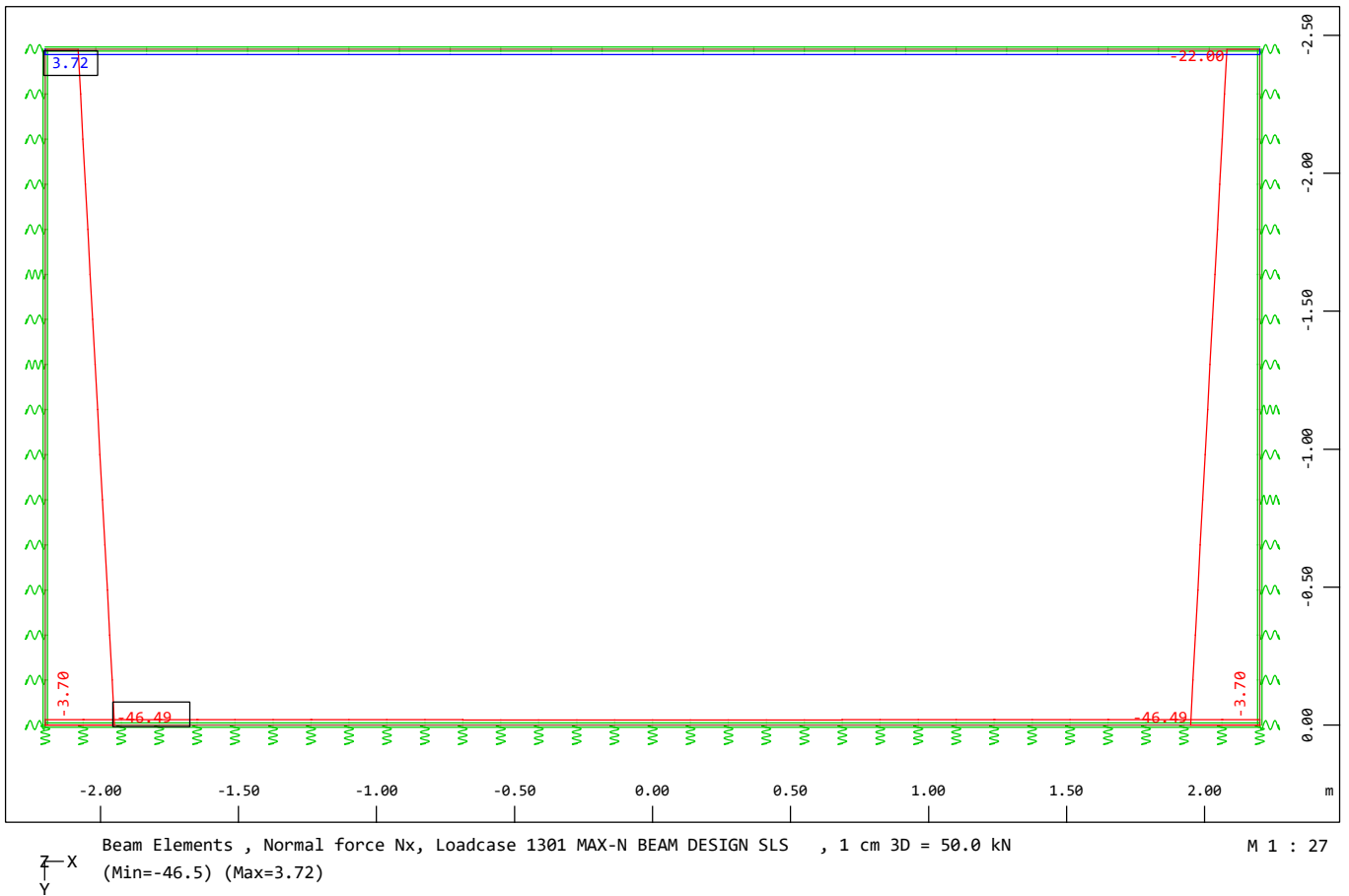
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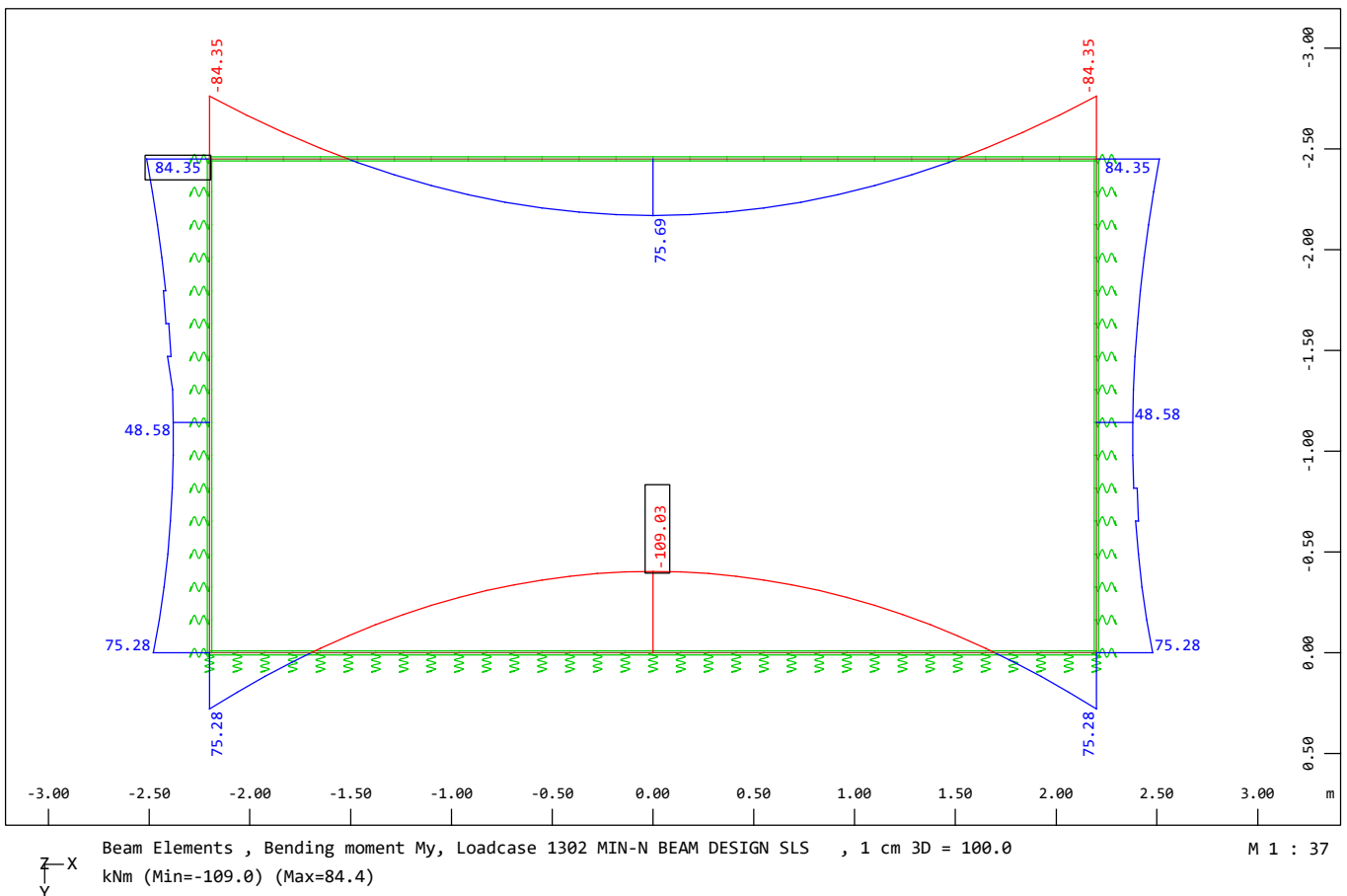
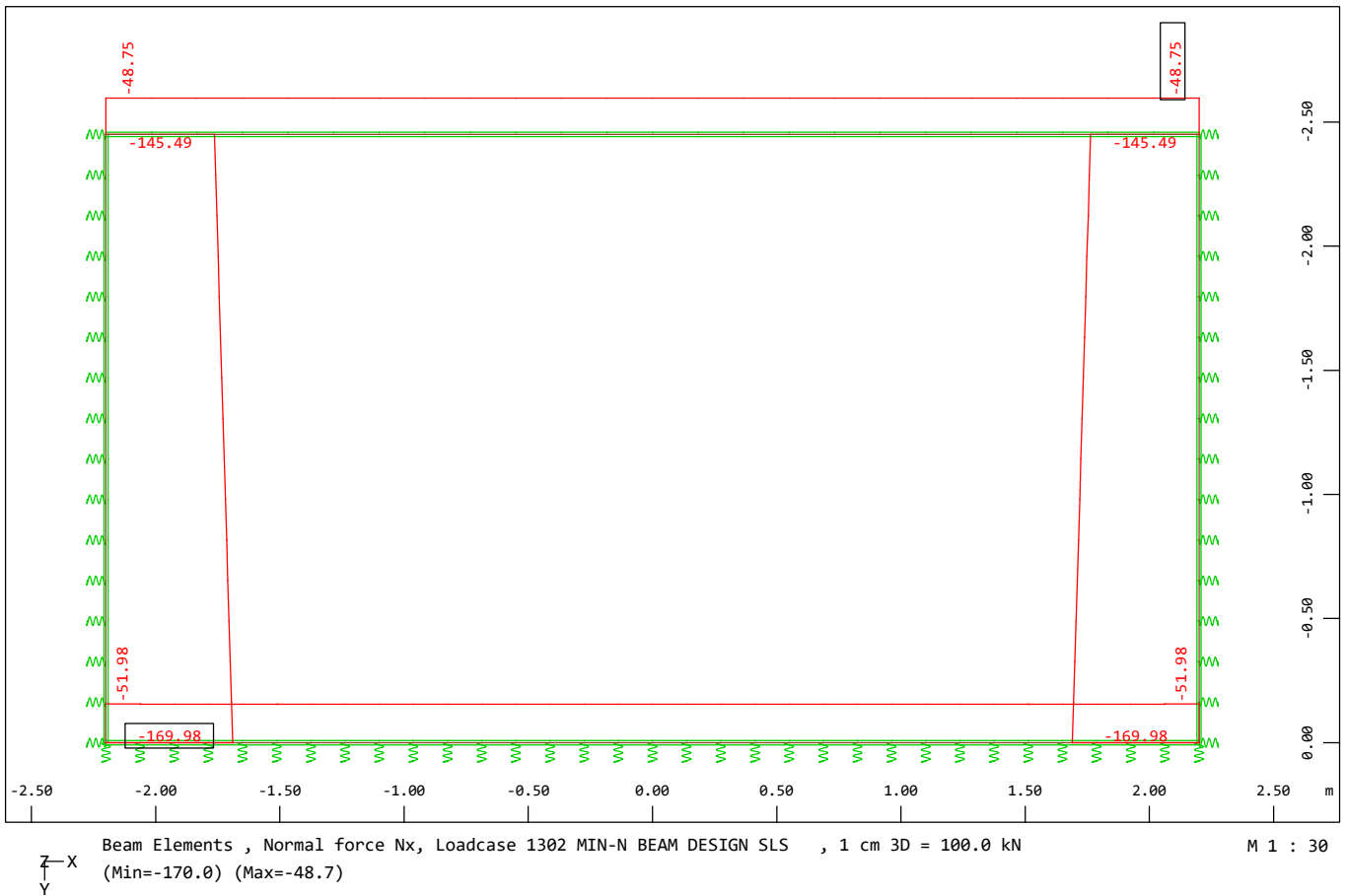
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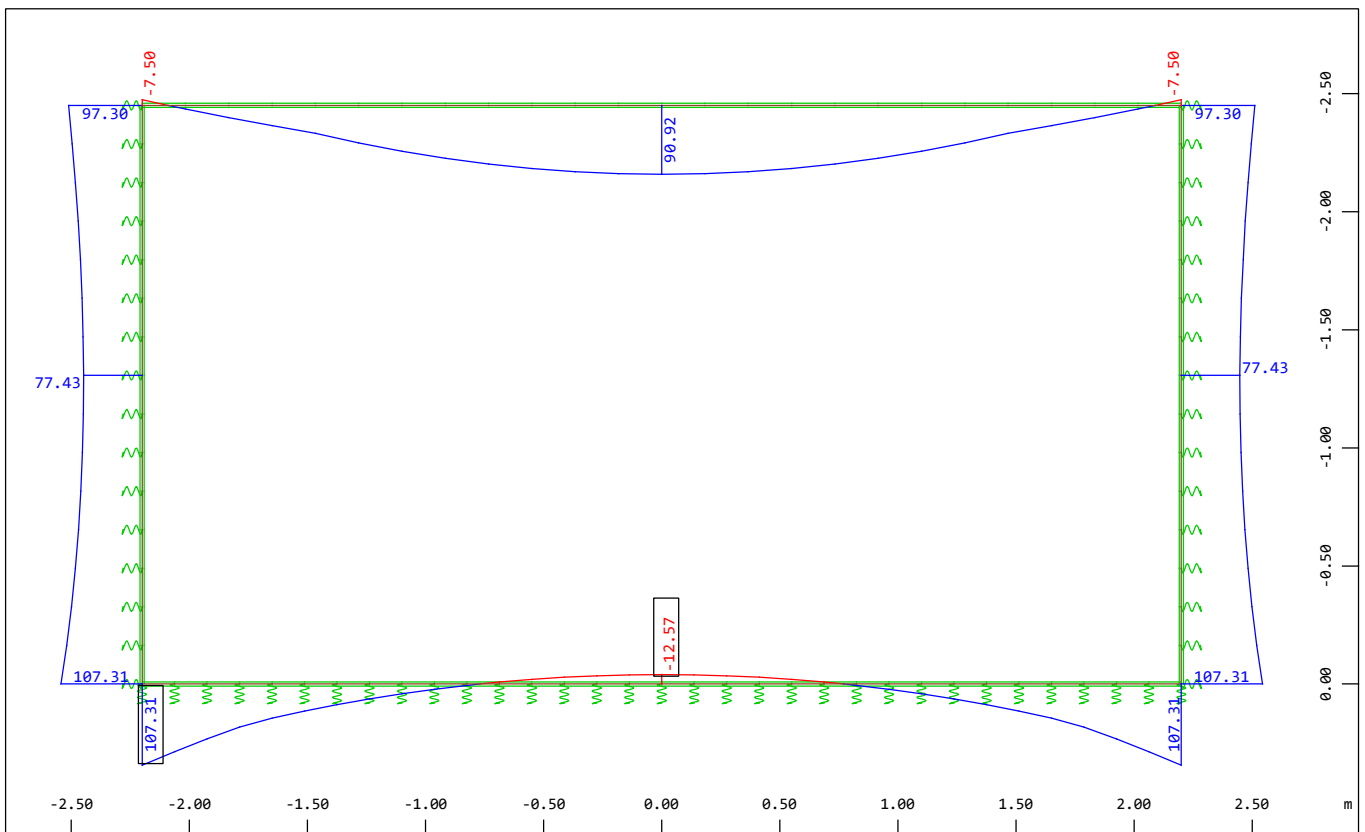
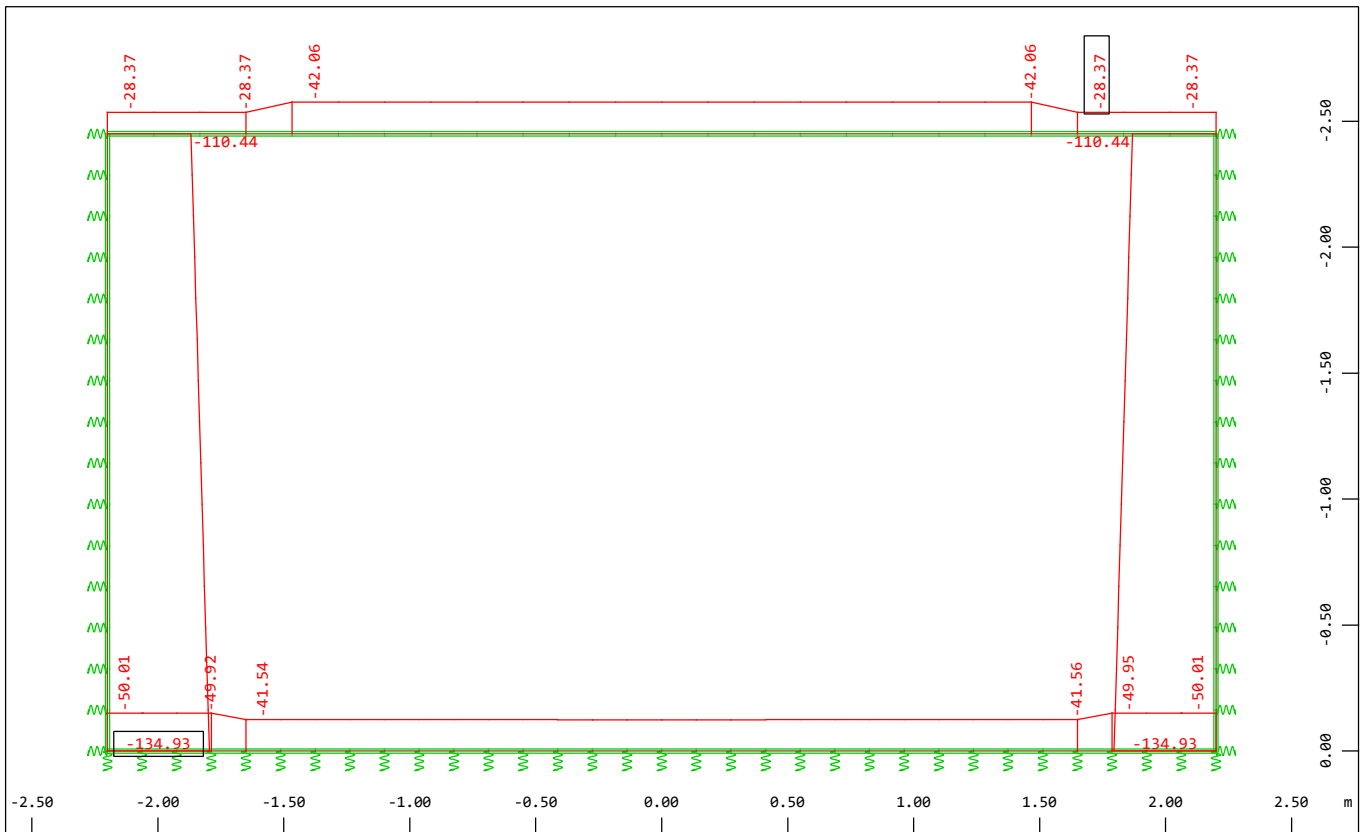
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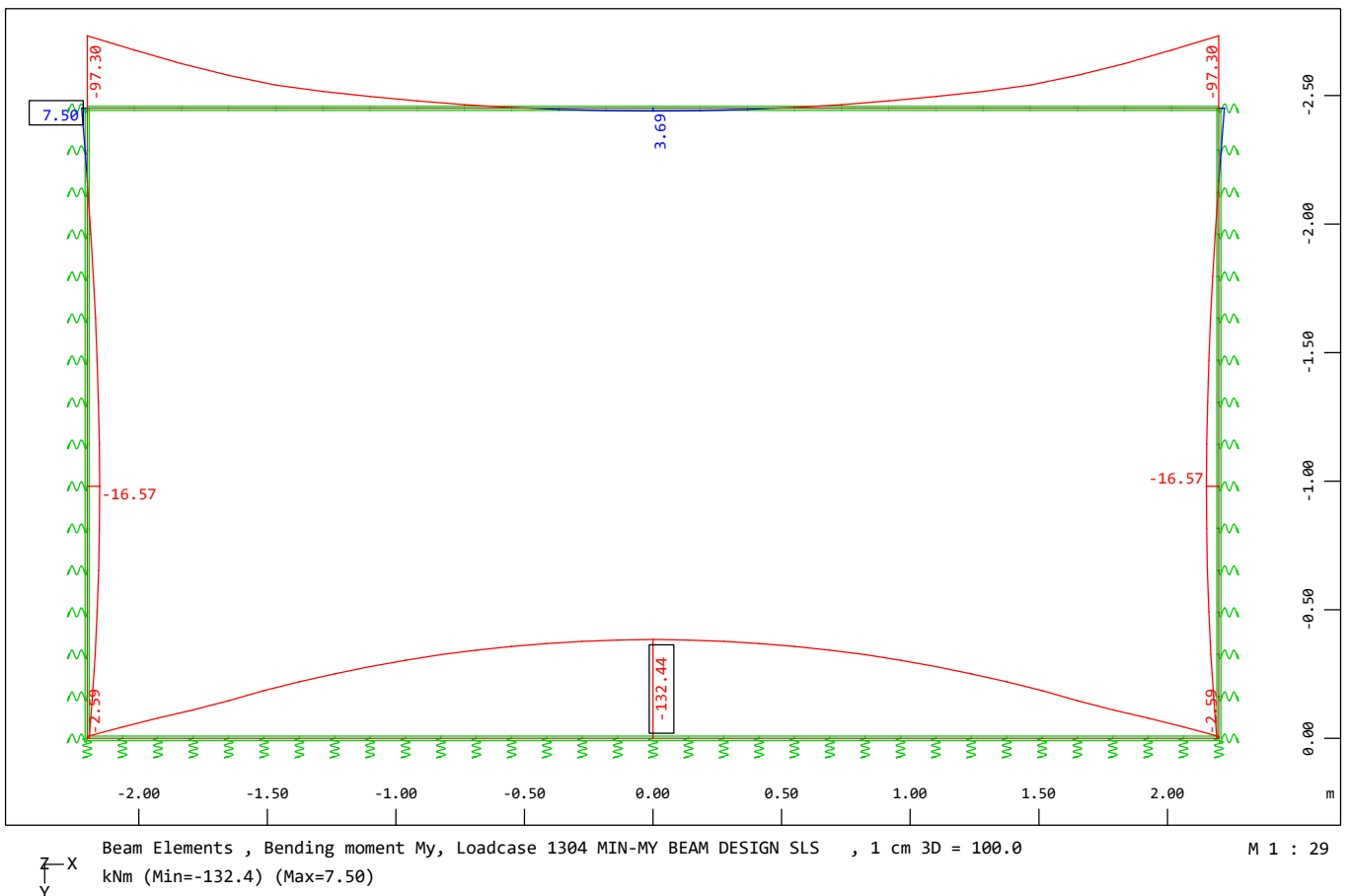
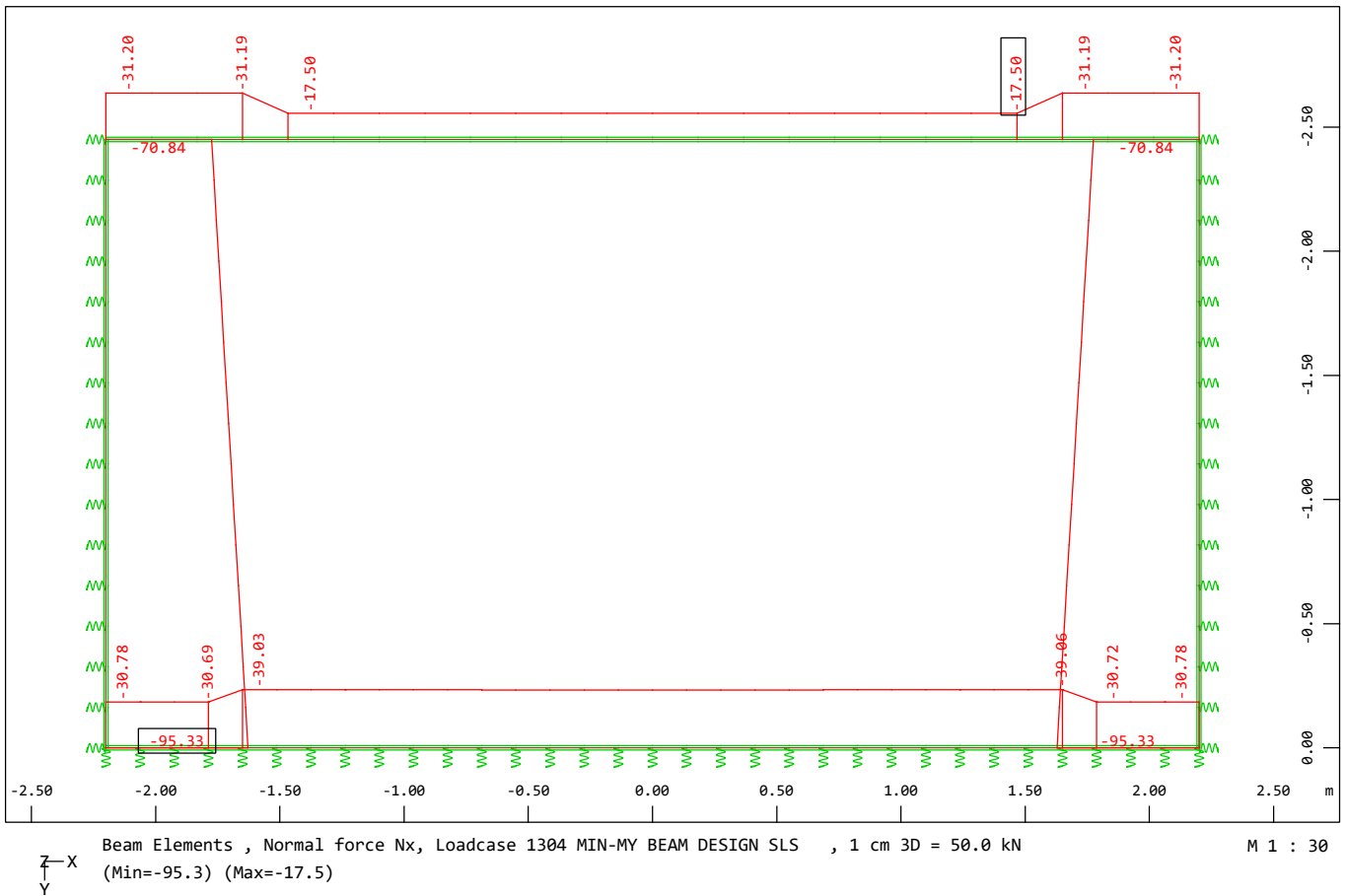


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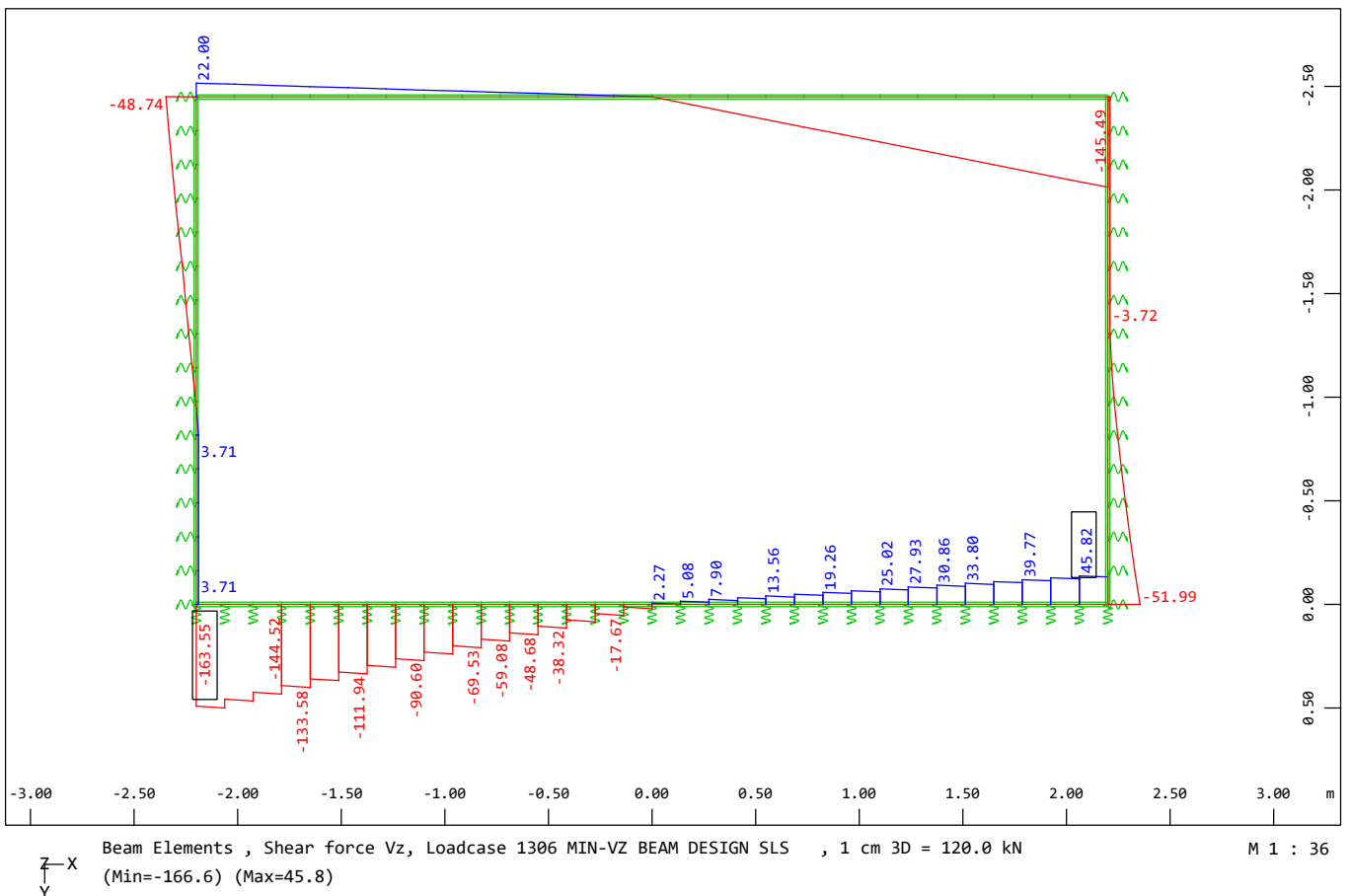
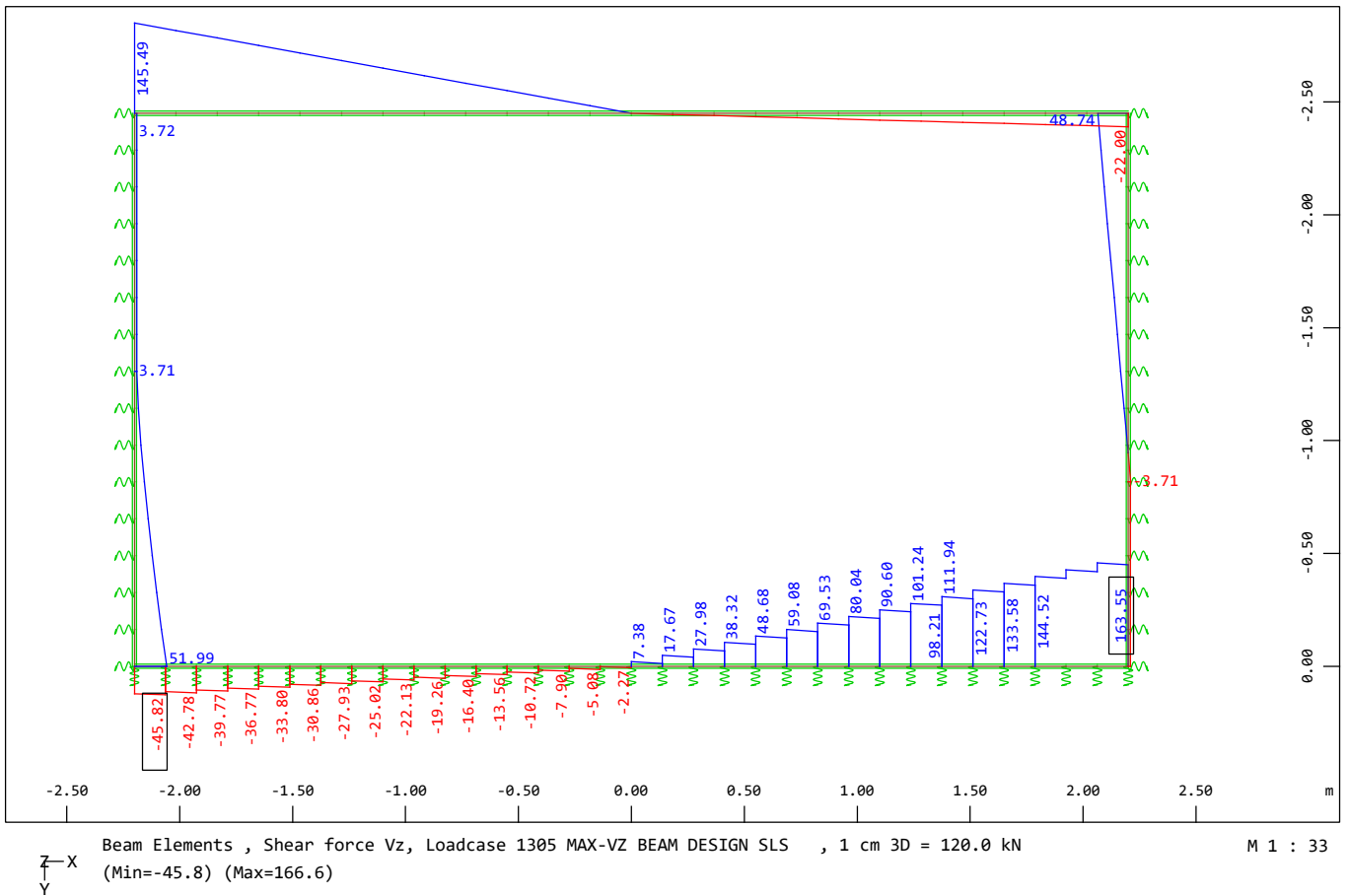


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Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures

Safety factors	$\gamma\text{-c,t}$	$\gamma\text{-c,c}$	$\gamma\text{-c,s}$	$\gamma\text{-s,s}$	$\gamma\text{-s,p}$	$\gamma\text{-s}$	Uniaxial bending
Strain limits	$\epsilon\text{-c1}$	$\epsilon\text{-c2}$	$\epsilon\text{-s1}$	$\epsilon\text{-s2}$	$\epsilon\text{-z1}$	$\epsilon\text{-z2}$	CTRL-options
	1.50	1.50	1.50	1.15	1.15	1.00	
	-3.50	-2.00 ¹	$\delta = 1.00^2$	45.00	-3.50	20.00	PIIA = 7
¹ Strain limits will be adopted to active stress strain definitions of material							
² Value is obtained from maximum height of compression zone based on the redistribution grade δ (EN 1992-1-1, 5.5)							
$\gamma\text{-c,t}$	global safety factor for concrete in bending			$\gamma\text{-s,p}$	global safety factor for active reinforcements		
$\gamma\text{-c,c}$	global safety factor for concrete in compression			$\gamma\text{-s}$	global safety factor for structural steel		
$\gamma\text{-c,s}$	global safety factor for concrete in shear			$\epsilon\text{-c1}$	strain limit for compression of concrete		
$\gamma\text{-s,s}$	global safety factor for passive reinforcements			$\epsilon\text{-c2}$	strain limit for centric compression of concrete		
$\epsilon\text{-s1}$	strain limit for a selected x/d ratio triggering symmetric reinforcements						
$\epsilon\text{-s2}$	strain limit for tension respective hardening of reinforcements						
$\epsilon\text{-z1}$	incremental strain limit for tendons in compression						
$\epsilon\text{-z2}$	incremental strain limit for tendons in tension						

Parameters for reinforcements

Minimum reinforcement for beams	Minimum reinforcement for columns	Compressive Member Limits e/h	Compressive Member Limits N/Npl	Minimum reinforcement of the required section	Maximum reinforcements
0.13 [o/o]	0.20 [o/o]	3.50 ¹	0.0010 ¹	0.00 [o/o] 0.10*Ned/fyd	8.00 [o/o]
¹ A beam is taken as compressive member if the eccentricity e/h is less and the compressive force is larger than these limits					

Tensile forces in the longitudinal reinforcements due to shear are NOT accounted for.
Material of sections uses Ultimate Limit strain-stress law with individual safety factors
Material of reinforcements uses Ultimate Limit strain-stress law with individual safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.500	-16.67	-2.00	0.00	0.00	$f_{c,t} = 0.00$	
2	0	1.150	-500.00	-75.00	500.00	75.00		
11	0	1.500	-13.33	-2.00	0.00	0.00	$f_{c,t} = 0.00$	

Shear Design

Design for shear Eurocode EN 1992 (2004)

Mat	f-cd [MPa]	τ -rd [MPa]	σ -cv [MPa]	σ -ct [MPa]	σ -cv+t [MPa]	f-yd [MPa]
1	16.67	0.12	9.00	9.00	9.00	
2						434.78
11	13.33	0.12	7.36	7.36	7.36	
f-cd design strength of concrete						
τ -rd design value of the shear capacity of the concrete						
σ -cv maximum allowable compressive stress for transverse shear						
σ -ct maximum allowable compressive stress for torsional shear						
σ -cv+t maximum allowable compressive stress						
f-yd design strength of transverse reinforcements						

Minimum shear factor or tan of inclination of compressive struts 0.40 / 1.00

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Tolerance for exceeding maximum shear or principal compression stress 0.0200

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
102	0.000	1	0.23	11.62	0.537		6.03	5.59			
102	0.138	1	0.22	11.18	0.537		5.59	5.59			
103	0.000	1	0.22	11.18	0.537		5.59	5.59			
103	0.137	1	0.22	11.18	0.450		5.59	5.59			
104	0.000	1	0.22	11.18	0.450		5.59	5.59			
104	0.138	1	0.22	11.18	0.450		5.59	5.59			
105	0.000	1	0.22	11.18			5.59	5.59			
105	0.138	1	0.22	11.18			5.59	5.59			
106	0.000	1	0.22	11.18			5.59	5.59			
106	0.138	1	0.22	11.21			5.59	5.62			
107	0.000	1	0.22	11.21			5.59	5.62			
107	0.138	1	0.24	12.09			5.59	6.50			
108	0.000	1	0.24	12.09			5.59	6.50			
108	0.137	1	0.26	12.89			5.59	7.30			
109	0.000	1	0.26	12.89			5.59	7.30			
109	0.138	1	0.27	13.59			5.59	8.00			
110	0.000	1	0.27	13.59			5.59	8.00			
110	0.137	1	0.28	14.25			5.59	8.66			
111	0.000	1	0.28	14.25			5.59	8.66			
111	0.138	1	0.30	14.81			5.59	9.22			
112	0.000	1	0.30	14.81			5.59	9.22			
112	0.138	1	0.25	12.47			2.80	9.68			
113	0.000	1	0.25	12.47			2.80	9.68			
113	0.137	1	0.26	12.83			2.80	10.04			
114	0.000	1	0.26	12.83			2.80	10.04			
114	0.137	1	0.26	13.09			2.80	10.30			
115	0.000	1	0.26	13.09			2.80	10.30			
115	0.137	1	0.26	13.25			2.80	10.45			
116	0.000	1	0.26	13.25			2.79	10.45			
116	0.138	1	0.27	13.30			2.80	10.50			
117	0.000	1	0.27	13.30			2.80	10.50			
117	0.138	1	0.26	13.25			2.79	10.45			
118	0.000	1	0.26	13.25			2.80	10.45			
118	0.137	1	0.26	13.09			2.80	10.30			
119	0.000	1	0.26	13.09			2.80	10.30			
119	0.137	1	0.26	12.83			2.80	10.04			
120	0.000	1	0.26	12.83			2.80	10.04			
120	0.137	1	0.25	12.47			2.80	9.68			
121	0.000	1	0.25	12.47			2.80	9.68			
121	0.138	1	0.30	14.81			5.59	9.22			
122	0.000	1	0.30	14.81			5.59	9.22			
122	0.138	1	0.28	14.25			5.59	8.66			
123	0.000	1	0.28	14.25			5.59	8.66			
123	0.137	1	0.27	13.59			5.59	8.00			
124	0.000	1	0.27	13.59			5.59	8.00			
124	0.138	1	0.26	12.89			5.59	7.30			
125	0.000	1	0.26	12.89			5.59	7.30			
125	0.137	1	0.24	12.09			5.59	6.50			
126	0.000	1	0.24	12.09			5.59	6.50			
126	0.138	1	0.22	11.21			5.59	5.62			
127	0.000	1	0.22	11.21			5.59	5.62			
127	0.138	1	0.22	11.18			5.59	5.59			
128	0.000	1	0.22	11.18			5.59	5.59			
128	0.138	1	0.22	11.18			5.59	5.59			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
129	0.000	1	0.22	11.18	0.450		5.59	5.59			
129	0.138	1	0.22	11.18	0.450		5.59	5.59			
130	0.000	1	0.22	11.18	0.450		5.59	5.59			
130	0.137	1	0.22	11.18	0.537		5.59	5.59			
131	0.000	1	0.22	11.18	0.537		5.59	5.59			
131	0.138	1	0.23	11.62	0.537		6.03	5.59			
202	0.000	2	0.25	10.08			7.94	2.15			
202	0.163	2	0.24	9.58			7.43	2.15			
203	0.000	2	0.24	9.58			7.43	2.15			
203	0.163	2	0.23	9.19			7.05	2.15			
204	0.000	2	0.23	9.19			7.05	2.15			
204	0.163	2	0.28	11.02			6.73	4.29			
205	0.000	2	0.28	11.02			6.73	4.29			
205	0.163	2	0.27	10.78			6.49	4.29			
206	0.000	2	0.27	10.78			6.49	4.29			
206	0.163	2	0.27	10.62			6.33	4.29			
207	0.000	2	0.27	10.62			6.33	4.29			
207	0.163	2	0.26	10.54			6.25	4.29			
208	0.000	2	0.26	10.54			6.25	4.29			
208	0.163	2	0.26	10.55			6.26	4.29			
209	0.000	2	0.26	10.55			6.26	4.29			
209	0.163	2	0.27	10.63			6.34	4.29			
210	0.000	2	0.27	10.63			6.34	4.29			
210	0.163	2	0.27	10.80			6.51	4.29			
211	0.000	2	0.27	10.80			6.51	4.29			
211	0.163	2	0.28	11.05			6.76	4.29			
212	0.000	2	0.28	11.05			6.76	4.29			
212	0.163	2	0.28	11.40			7.11	4.29			
213	0.000	2	0.28	11.40			7.11	4.29			
213	0.163	2	0.30	11.83			7.54	4.29			
214	0.000	2	0.30	11.83			7.54	4.29			
214	0.163	2	0.31	12.43			8.14	4.29			
302	0.000	2	0.31	12.43			8.14	4.29			
302	0.163	2	0.30	11.83			7.54	4.29			
303	0.000	2	0.30	11.83			7.54	4.29			
303	0.163	2	0.28	11.40			7.11	4.29			
304	0.000	2	0.28	11.40			7.11	4.29			
304	0.163	2	0.28	11.05			6.76	4.29			
305	0.000	2	0.28	11.05			6.76	4.29			
305	0.163	2	0.27	10.80			6.51	4.29			
306	0.000	2	0.27	10.80			6.51	4.29			
306	0.163	2	0.27	10.63			6.34	4.29			
307	0.000	2	0.27	10.63			6.34	4.29			
307	0.163	2	0.26	10.55			6.26	4.29			
308	0.000	2	0.26	10.55			6.26	4.29			
308	0.163	2	0.26	10.54			6.25	4.29			
309	0.000	2	0.26	10.54			6.25	4.29			
309	0.163	2	0.27	10.62			6.33	4.29			
310	0.000	2	0.27	10.62			6.33	4.29			
310	0.163	2	0.27	10.78			6.49	4.29			
311	0.000	2	0.27	10.78			6.49	4.29			
311	0.163	2	0.28	11.02			6.73	4.29			
312	0.000	2	0.28	11.02			6.73	4.29			
312	0.163	2	0.23	9.19			7.05	2.15			
313	0.000	2	0.23	9.19			7.05	2.15			
313	0.163	2	0.24	9.58			7.43	2.15			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
314	0.000	2	0.24	9.58			7.43	2.15			
314	0.163	2	0.25	10.08			7.94	2.15			
402	0.000	3	0.30	11.98	0.325		4.29	7.69			
402	0.183	3	0.25	9.84	0.325		4.29	5.55			
403	0.000	3	0.25	9.84	0.325		4.29	5.55			
403	0.183	3	0.21	8.58	0.325		4.29	4.29			
404	0.000	3	0.21	8.58	0.325		4.29	4.29			
404	0.183	3	0.21	8.58			4.29	4.29			
405	0.000	3	0.21	8.58			4.29	4.29			
405	0.183	3	0.22	8.69			4.40	4.29			
406	0.000	3	0.22	8.69			4.40	4.29			
406	0.183	3	0.25	9.91			5.62	4.29			
407	0.000	3	0.25	9.91			5.62	4.29			
407	0.183	3	0.28	11.03			6.74	4.29			
408	0.000	3	0.28	11.03			6.74	4.29			
408	0.183	3	0.30	11.96			7.67	4.29			
409	0.000	3	0.30	11.96			7.67	4.29			
409	0.183	3	0.32	12.70			8.41	4.29			
410	0.000	3	0.32	12.70			8.41	4.29			
410	0.183	3	0.33	13.22			8.93	4.29			
411	0.000	3	0.33	13.22			8.93	4.29			
411	0.183	3	0.34	13.54			9.25	4.29			
412	0.000	3	0.34	13.54			9.25	4.29			
412	0.183	3	0.34	13.64			9.35	4.29			
413	0.000	3	0.34	13.64			9.35	4.29			
413	0.183	3	0.34	13.54			9.25	4.29			
414	0.000	3	0.34	13.54			9.25	4.29			
414	0.183	3	0.33	13.22			8.93	4.29			
415	0.000	3	0.33	13.22			8.93	4.29			
415	0.183	3	0.32	12.70			8.41	4.29			
416	0.000	3	0.32	12.70			8.41	4.29			
416	0.183	3	0.30	11.96			7.67	4.29			
417	0.000	3	0.30	11.96			7.67	4.29			
417	0.183	3	0.28	11.03			6.74	4.29			
418	0.000	3	0.28	11.03			6.74	4.29			
418	0.183	3	0.25	9.91			5.62	4.29			
419	0.000	3	0.25	9.91			5.62	4.29			
419	0.183	3	0.22	8.69			4.40	4.29			
420	0.000	3	0.22	8.69			4.40	4.29			
420	0.183	3	0.21	8.58			4.29	4.29			
421	0.000	3	0.21	8.58			4.29	4.29			
421	0.183	3	0.21	8.58	0.325		4.29	4.29			
422	0.000	3	0.21	8.58	0.325		4.29	4.29			
422	0.183	3	0.25	9.84	0.325		4.29	5.55			
423	0.000	3	0.25	9.84	0.325		4.29	5.55			
423	0.183	3	0.30	11.98	0.325		4.29	7.69			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
Asl total longitudinal reinforcement
vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

Shear Reinforcements per Cutted Part of Section - Design case No. 1

Beam	x[m]	SNo	Asl-Mt [cm2/m]	As/s [cm2/m]	As/s-1 [cm2/m]
102	0.000	1	0.00		5.38
102	0.138	1	0.00		5.48

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Shear Reinforcements per Cutted Part of Section - Design case No. 1

Beam	x[m]	SNo	Asl-Mt [cm ² /m]	As/s [cm ² /m]	As/s-1 [cm ² /m]
103	0.000	1	0.00		5.00
103	0.137	1	0.00		5.10
104	0.000	1	0.00		4.61
104	0.138	1	0.00		4.71
129	0.000	1	0.00		4.71
129	0.138	1	0.00		4.61
130	0.000	1	0.00		5.10
130	0.137	1	0.00		5.00
131	0.000	1	0.00		5.48
131	0.138	1	0.00		5.38
402	0.000	3	0.00		6.54
402	0.183	3	0.00		5.95
403	0.000	3	0.00		5.95
403	0.183	3	0.00		5.35
404	0.000	3	0.00		5.35
421	0.183	3	0.00		5.35
422	0.000	3	0.00		5.35
422	0.183	3	0.00		5.95
423	0.000	3	0.00		5.95
423	0.183	3	0.00		6.54

Asl-Mt nominal longitudinal reinforcement per circumference of equivalent section due to torsion
As/s area of transverse reinforcements
As/s-1 total transverse reinforcement per layer and cutted element

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		

NoA, NoE range of element numbers
x[m] x-ordinate of beam section or station on axis
Type element type

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 2
Reinforcements superposed with existing Design case No. 1

Nonlinear Stresses

Parameters for Nonlinear Stresses

Iteration for all forces and moments
Interaction thin walled normal- and shearstress via Prandtl flow rule
Design against cracks according to EuroNorm EN 1992-1-1:2004 Concrete Structures
Limits for the effective zone h-min= 0.0 h-max= 800.0 [mm]
Design values of crack width 0.200 [mm]
Coefficient k_t of load duration (EN 1992-1-1 Eq. 7.9) 0.40
Material of sections uses Serviceability strain-stress law without safety factors
Material of reinforcements uses Serviceability strain-stress law without safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension- stiffening [MPa]	Bond factor [-]
1	0	1.000	-33.00	-2.07	0.00	0.00	f _{c,t} = 0.00	
2	0	1.000	-575.00	-75.00	575.00	75.00		0.80
11	0	1.000	-28.00	-1.97	0.00	0.00	f _{c,t} = 0.00	

Maximum Stresses and Checked Limits

Mat	Check or Criterion			Value	Limit	Unit	Level	LC	Beam	x[m]
1	Longitud. compressive stress	σ -x	-9.26		MPa			428	214	0.163
	Longitud. tensile stress	σ +x	0.00		MPa			418	409	0.183
2	Longitud. compressive stress	σ -x	-10.70		MPa			427	116	0.138
	Longitud. tensile stress	σ +x	191.00		MPa			427	413	0.000

Check for crack width passed with additional reinforcements ✓

Stiffness is not saved in database

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm ²]	vm [m]	As1-0 [cm ²]	As1-1 [cm ²]	As1-2 [cm ²]	As1-3 [cm ²]	As1-4 [cm ²]	As1-5 [cm ²]
102	0.000	1	0.35	17.74	0.537		12.15	5.59			
102	0.138	1	0.32	15.93	0.537		10.34	5.59			
103	0.000	1	0.32	15.93	0.537		10.34	5.59			
103	0.137	1	0.30	15.00	0.450		8.56	6.44			
104	0.000	1	0.30	15.00	0.450		8.56	6.44			
104	0.138	1	0.31	15.37	0.450		7.31	8.06			
105	0.000	1	0.31	15.37			7.31	8.06			
105	0.138	1	0.30	15.21			5.59	9.62			
106	0.000	1	0.30	15.21			5.59	9.62			
106	0.138	1	0.33	16.54			5.59	10.95			
107	0.000	1	0.33	16.54			5.59	10.95			
107	0.138	1	0.35	17.71			5.59	12.12			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
108	0.000	1	0.35	17.71			5.59	12.12			
108	0.137	1	0.37	18.72			5.59	13.13			
109	0.000	1	0.37	18.72			5.59	13.13			
109	0.138	1	0.39	19.59			5.59	14.00			
110	0.000	1	0.39	19.59			5.59	14.00			
110	0.137	1	0.41	20.33			5.59	14.74			
111	0.000	1	0.41	20.33			5.59	14.74			
111	0.138	1	0.42	20.95			5.59	15.36			
112	0.000	1	0.42	20.95			5.59	15.36			
112	0.138	1	0.37	18.64			2.80	15.85			
113	0.000	1	0.37	18.64			2.80	15.85			
113	0.137	1	0.38	19.04			2.80	16.25			
114	0.000	1	0.38	19.04			2.80	16.25			
114	0.137	1	0.39	19.32			2.80	16.52			
115	0.000	1	0.39	19.32			2.80	16.52			
115	0.137	1	0.39	19.48			2.80	16.69			
116	0.000	1	0.39	19.48			2.79	16.69			
116	0.138	1	0.39	19.54			2.80	16.74			
117	0.000	1	0.39	19.54			2.80	16.74			
117	0.138	1	0.39	19.48			2.79	16.69			
118	0.000	1	0.39	19.48			2.80	16.69			
118	0.137	1	0.39	19.32			2.80	16.52			
119	0.000	1	0.39	19.32			2.80	16.52			
119	0.137	1	0.38	19.04			2.80	16.25			
120	0.000	1	0.38	19.04			2.80	16.25			
120	0.137	1	0.37	18.64			2.80	15.85			
121	0.000	1	0.37	18.64			2.80	15.85			
121	0.138	1	0.42	20.95			5.59	15.36			
122	0.000	1	0.42	20.95			5.59	15.36			
122	0.138	1	0.41	20.33			5.59	14.74			
123	0.000	1	0.41	20.33			5.59	14.74			
123	0.137	1	0.39	19.59			5.59	14.00			
124	0.000	1	0.39	19.59			5.59	14.00			
124	0.138	1	0.37	18.72			5.59	13.13			
125	0.000	1	0.37	18.72			5.59	13.13			
125	0.137	1	0.35	17.71			5.59	12.12			
126	0.000	1	0.35	17.71			5.59	12.12			
126	0.138	1	0.33	16.54			5.59	10.95			
127	0.000	1	0.33	16.54			5.59	10.95			
127	0.138	1	0.30	15.21			5.59	9.62			
128	0.000	1	0.30	15.21			5.59	9.62			
128	0.138	1	0.31	15.37			7.31	8.06			
129	0.000	1	0.31	15.37	0.450		7.31	8.06			
129	0.138	1	0.30	15.00	0.450		8.56	6.44			
130	0.000	1	0.30	15.00	0.450		8.56	6.44			
130	0.137	1	0.32	15.93	0.537		10.34	5.59			
131	0.000	1	0.32	15.93	0.537		10.34	5.59			
131	0.138	1	0.35	17.74	0.537		12.15	5.59			
202	0.000	2	0.38	15.17			13.03	2.15			
202	0.163	2	0.36	14.59			12.44	2.15			
203	0.000	2	0.36	14.59			12.44	2.15			
203	0.163	2	0.35	14.07			11.93	2.15			
204	0.000	2	0.35	14.07			11.93	2.15			
204	0.163	2	0.39	15.80			11.51	4.29			
205	0.000	2	0.39	15.80			11.51	4.29			
205	0.163	2	0.39	15.47			11.18	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
206	0.000	2	0.39	15.47			11.18	4.29			
206	0.163	2	0.38	15.24			10.95	4.29			
207	0.000	2	0.38	15.24			10.95	4.29			
207	0.163	2	0.38	15.11			10.82	4.29			
208	0.000	2	0.38	15.11			10.82	4.29			
208	0.163	2	0.38	15.11			10.82	4.29			
209	0.000	2	0.38	15.11			10.82	4.29			
209	0.163	2	0.38	15.22			10.93	4.29			
210	0.000	2	0.38	15.22			10.93	4.29			
210	0.163	2	0.39	15.47			11.18	4.29			
211	0.000	2	0.39	15.47			11.18	4.29			
211	0.163	2	0.40	15.85			11.56	4.29			
212	0.000	2	0.40	15.85			11.56	4.29			
212	0.163	2	0.41	16.36			12.07	4.29			
213	0.000	2	0.41	16.36			12.07	4.29			
213	0.163	2	0.43	17.01			12.72	4.29			
214	0.000	2	0.43	17.01			12.72	4.29			
214	0.163	2	0.45	17.80			13.51	4.29			
302	0.000	2	0.45	17.80			13.51	4.29			
302	0.163	2	0.43	17.01			12.72	4.29			
303	0.000	2	0.43	17.01			12.72	4.29			
303	0.163	2	0.41	16.36			12.07	4.29			
304	0.000	2	0.41	16.36			12.07	4.29			
304	0.163	2	0.40	15.85			11.56	4.29			
305	0.000	2	0.40	15.85			11.56	4.29			
305	0.163	2	0.39	15.47			11.18	4.29			
306	0.000	2	0.39	15.47			11.18	4.29			
306	0.163	2	0.38	15.22			10.93	4.29			
307	0.000	2	0.38	15.22			10.93	4.29			
307	0.163	2	0.38	15.11			10.82	4.29			
308	0.000	2	0.38	15.11			10.82	4.29			
308	0.163	2	0.38	15.11			10.82	4.29			
309	0.000	2	0.38	15.11			10.82	4.29			
309	0.163	2	0.38	15.24			10.95	4.29			
310	0.000	2	0.38	15.24			10.95	4.29			
310	0.163	2	0.39	15.47			11.18	4.29			
311	0.000	2	0.39	15.47			11.18	4.29			
311	0.163	2	0.39	15.80			11.51	4.29			
312	0.000	2	0.39	15.80			11.51	4.29			
312	0.163	2	0.35	14.07			11.93	2.15			
313	0.000	2	0.35	14.07			11.93	2.15			
313	0.163	2	0.36	14.59			12.44	2.15			
314	0.000	2	0.36	14.59			12.44	2.15			
314	0.163	2	0.38	15.17			13.03	2.15			
402	0.000	3	0.43	17.24	0.325		4.29	12.95			
402	0.183	3	0.37	14.91	0.325		4.29	10.62			
403	0.000	3	0.37	14.91	0.325		4.29	10.62			
403	0.183	3	0.32	12.81	0.325		4.60	8.21			
404	0.000	3	0.32	12.81	0.325		4.60	8.21			
404	0.183	3	0.31	12.51			6.55	5.96			
405	0.000	3	0.31	12.51			6.55	5.96			
405	0.183	3	0.33	13.18			8.89	4.29			
406	0.000	3	0.33	13.18			8.89	4.29			
406	0.183	3	0.37	14.70			10.41	4.29			
407	0.000	3	0.37	14.70			10.41	4.29			
407	0.183	3	0.40	15.94			11.65	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

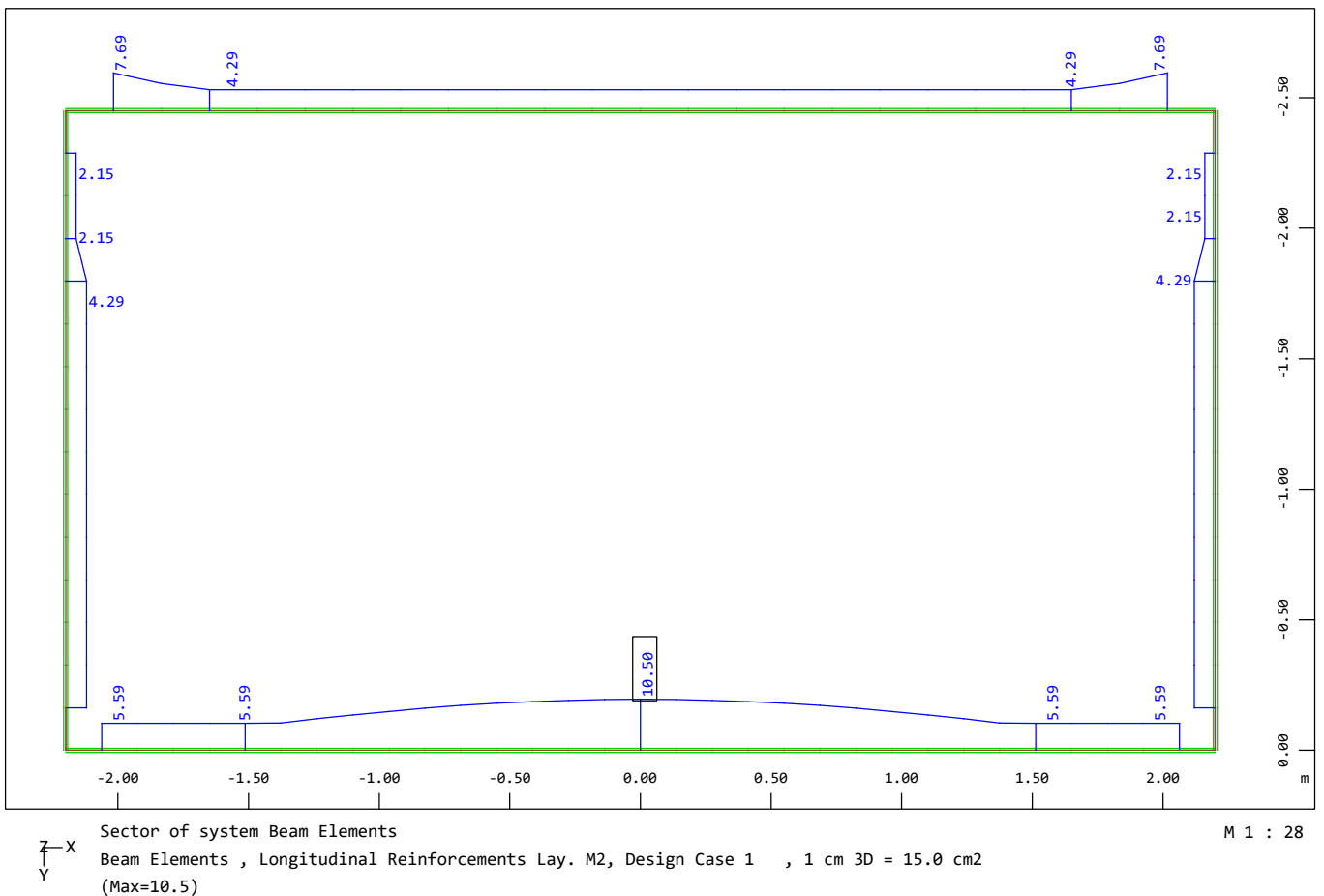
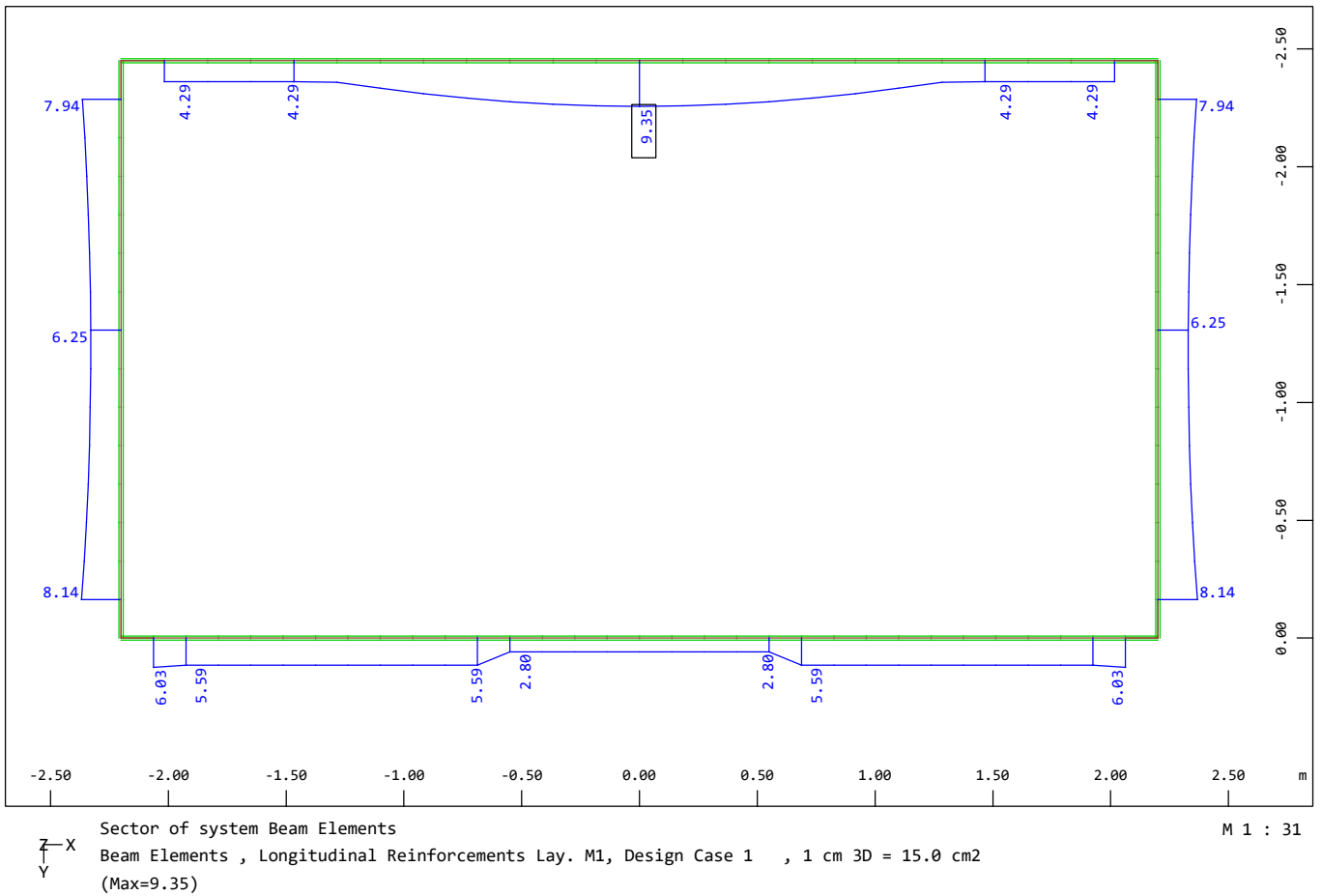
Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
408	0.000	3	0.40	15.94			11.65	4.29			
408	0.183	3	0.42	16.93			12.64	4.29			
409	0.000	3	0.42	16.93			12.64	4.29			
409	0.183	3	0.44	17.69			13.40	4.29			
410	0.000	3	0.44	17.69			13.40	4.29			
410	0.183	3	0.46	18.23			13.94	4.29			
411	0.000	3	0.46	18.23			13.94	4.29			
411	0.183	3	0.46	18.55			14.26	4.29			
412	0.000	3	0.46	18.55			14.26	4.29			
412	0.183	3	0.47	18.66			14.37	4.29			
413	0.000	3	0.47	18.66			14.37	4.29			
413	0.183	3	0.46	18.55			14.26	4.29			
414	0.000	3	0.46	18.55			14.26	4.29			
414	0.183	3	0.46	18.23			13.94	4.29			
415	0.000	3	0.46	18.23			13.94	4.29			
415	0.183	3	0.44	17.69			13.40	4.29			
416	0.000	3	0.44	17.69			13.40	4.29			
416	0.183	3	0.42	16.93			12.64	4.29			
417	0.000	3	0.42	16.93			12.64	4.29			
417	0.183	3	0.40	15.94			11.65	4.29			
418	0.000	3	0.40	15.94			11.65	4.29			
418	0.183	3	0.37	14.70			10.41	4.29			
419	0.000	3	0.37	14.70			10.41	4.29			
419	0.183	3	0.33	13.18			8.89	4.29			
420	0.000	3	0.33	13.18			8.89	4.29			
420	0.183	3	0.31	12.51			6.55	5.96			
421	0.000	3	0.31	12.51			6.55	5.96			
421	0.183	3	0.32	12.81	0.325		4.60	8.21			
422	0.000	3	0.32	12.81	0.325		4.60	8.21			
422	0.183	3	0.37	14.91	0.325		4.29	10.62			
423	0.000	3	0.37	14.91	0.325		4.29	10.62			
423	0.183	3	0.43	17.24	0.325		4.29	12.95			

Note: Layer includes reinforcements for torsion if followed by T

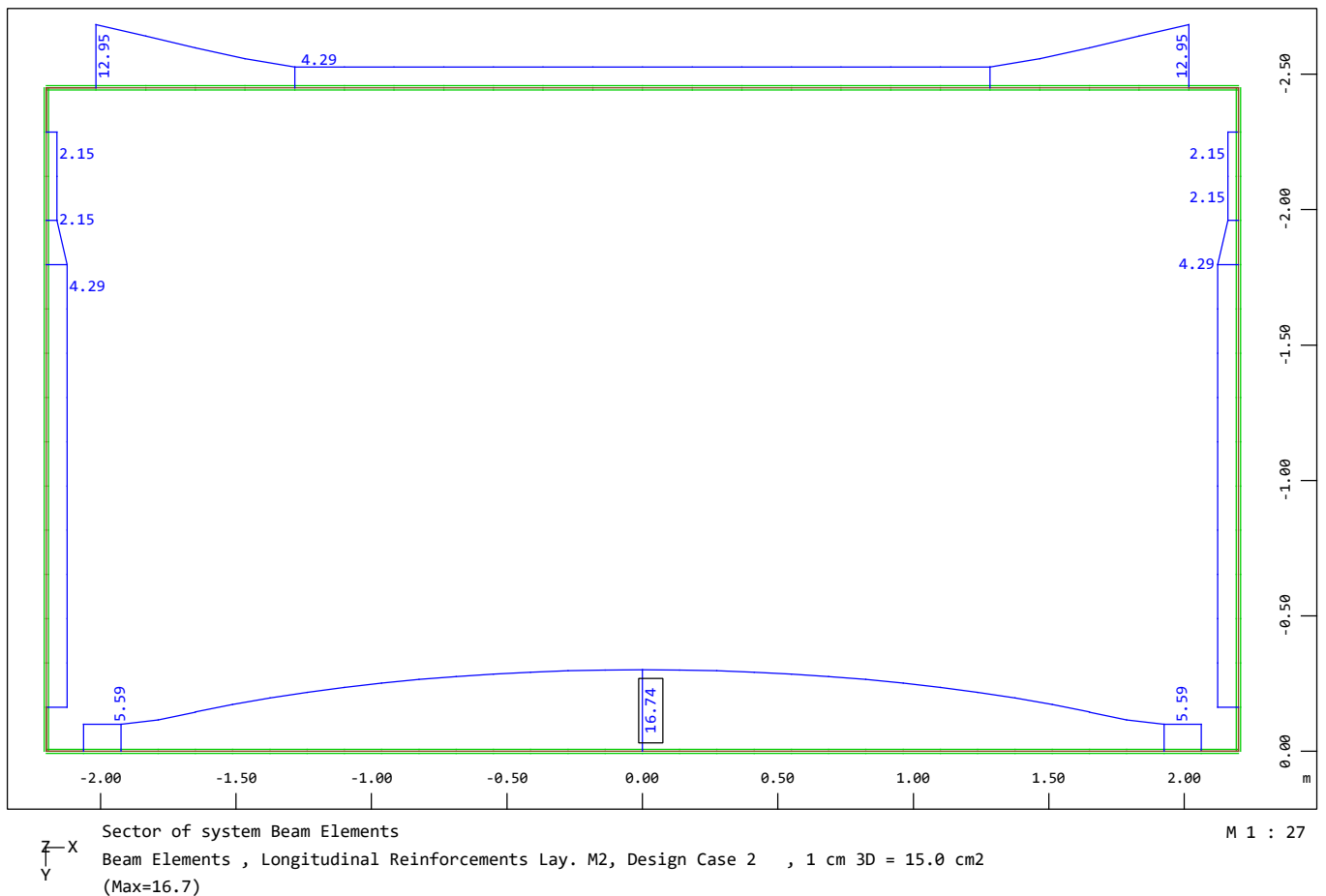
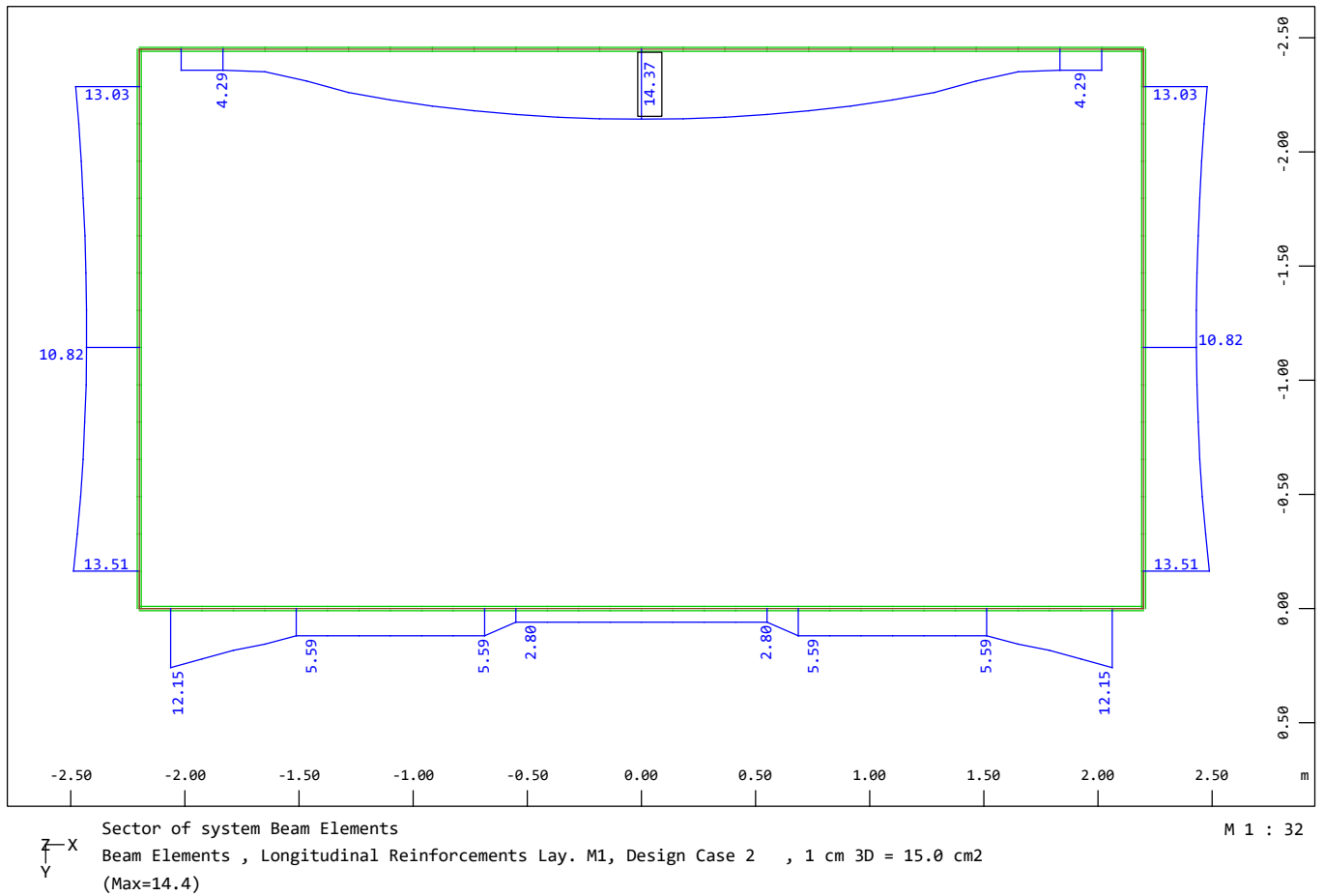
Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
Asl total longitudinal reinforcement
vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

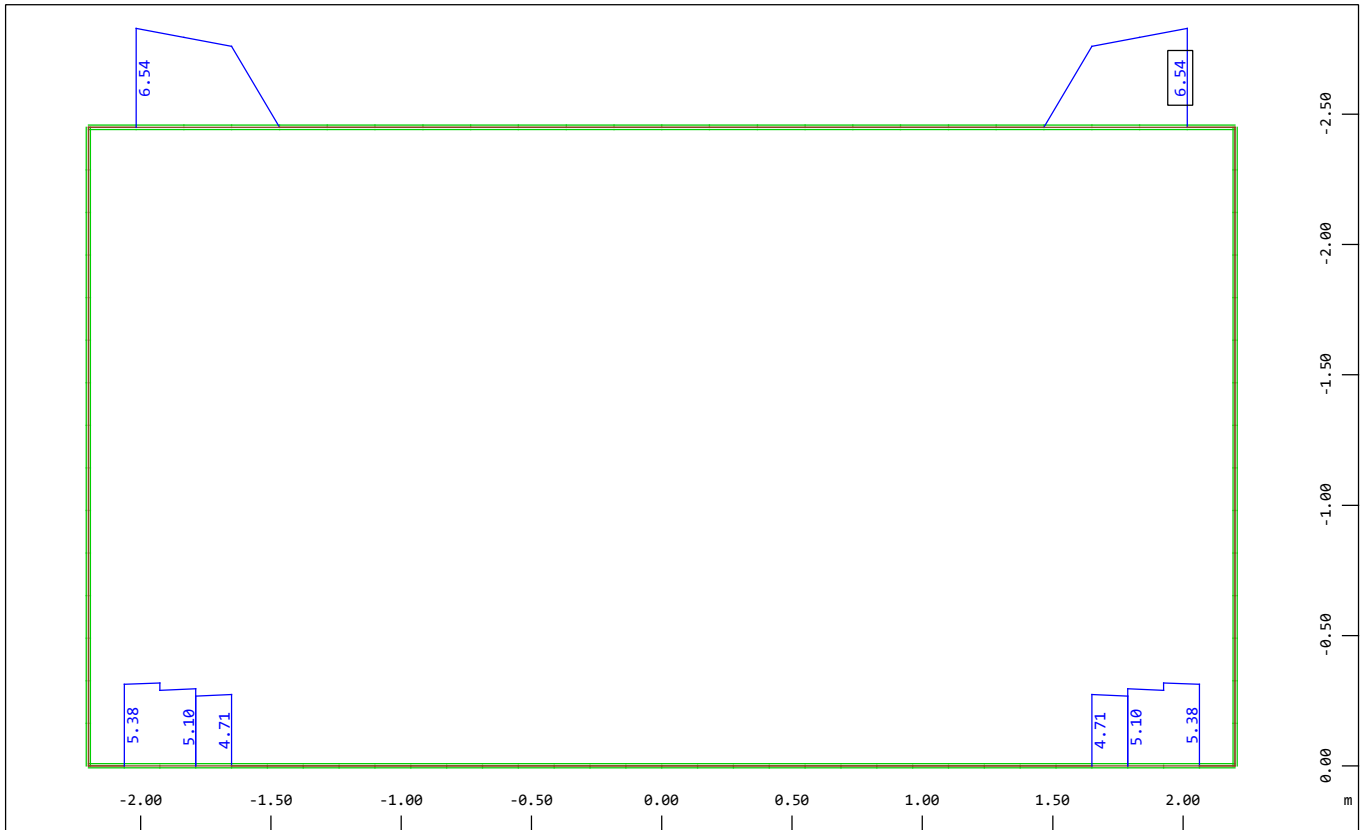
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α1 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΤΜΗΣΗΣ



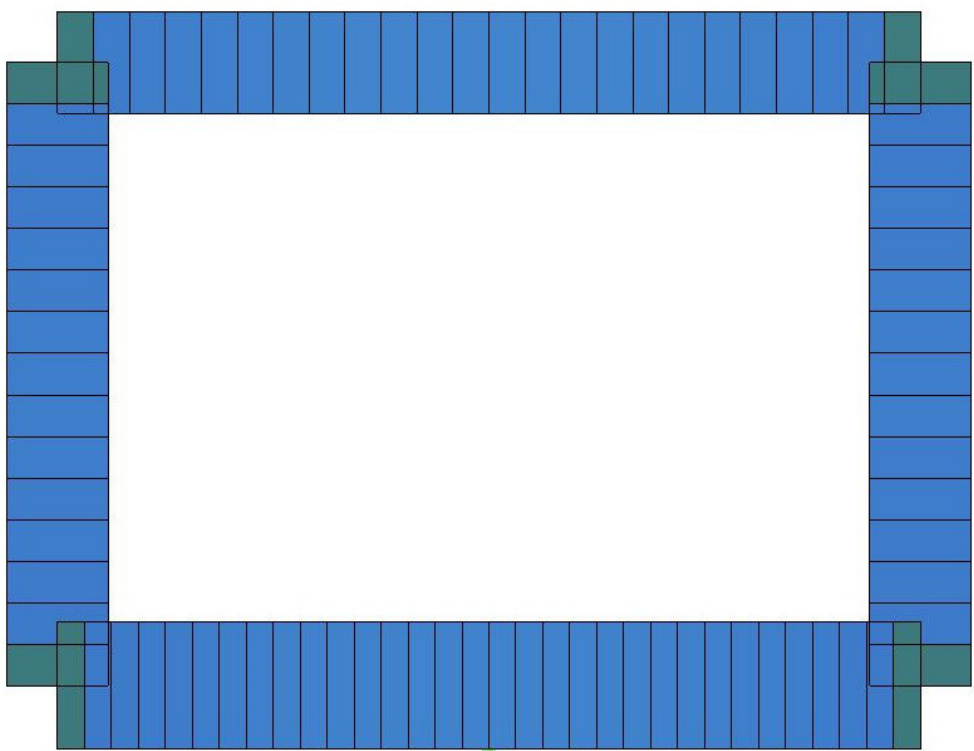
Y
X

Sector of system Beam Elements
Shear reinforcements (maximum), Design Case 2 , (1 cm 3D = unit) Beam Elements (Unit=5.00
cm2/m) (Max=6.54)

M 1 : 29

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

Table of Contents

ΑΓΩΓΟΣ

Introduction	1
ΑΓΩΓΟΣ Α2	1

.

Introduction	9
--------------------	---

ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	10
Mat 1 C 25/30 (EN 1992)	10
Mat 2 B 500 C (EN 1992)	10
Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Static properties of cross section	11
Cross section No. 2 - Τοίχοι	11
Cross section No. 2 - Τοίχοι	11
Static properties of cross section	11
Cross section No. 3 - Πλάκα Οροφής	11
Cross section No. 3 - Πλάκα Οροφής	11
Static properties of cross section	12
Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12

.

Introduction	13
--------------------	----

ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups	14
Summary of beam elements	14
Groups	14
Cross sections	14

RIGID ELEMENTS

ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ

Beam Elements , Cross sections	15
Beam Elements , Coordinate system Number of group	16
Beam Elements , Number of element Beam Elements , Numbers of cross section	17
X-coordinate Y-coordinate	18
Spring constant Transverse spring constant	19

.

Introduction	20
--------------------	----

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 1 ΙΔΙΟ ΒΑΡΟΣ (G)	21
Load Case 2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	21
Load Case 3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	21
Load Case 4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	21
Load Case 5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	21
Load Case 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	21
Load Case 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	21
Load Case 11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=1.1) (R1)	21
Load Case 12 ΚΙΝΗΤΑ (Heπ.=1.1) (Q1)	21
Load Case 13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Heπ=1.1) (EA1)	21

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 14 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=1.1) (ES1)	21
Load Case 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Ηεπ.=2.1) (R2)	21
Load Case 22 ΚΙΝΗΤΑ (Ηεπ.=2.1) (Q2)	21
Load Case 23 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (EA2)	21
Load Case 24 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (ES2)	21

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

All loads LC: 2 All loads LC: 3	22
All loads LC: 4 All loads LC: 5	23
All loads LC: 6 All loads LC: 7	24
All loads LC: 11 All loads LC: 12	25
All loads LC: 13 All loads LC: 14	26
All loads LC: 21 All loads LC: 22	27
All loads LC: 23 All loads LC: 24	28

Introduction	29
--------------------	----

Introduction	30
--------------------	----

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 100 1.35G+C	31
Load Case 101 1.35(G+R1)+C	31
Load Case 102 G+1.35R1+C	31
Load Case 103 1.35G+R1+C	31
Load Case 104 1.35(G+R1)+C+1.2W	31
Load Case 105 G+1.35R1+C+1.2W	31
Load Case 106 1.35G+R1+C+1.2W	31
Load Case 107 1.35(G+R1)+C+1.5Q1	31
Load Case 108 G+1.35R1+C+1.5Q1	31
Load Case 109 1.35G+R1+C+1.5Q1	32
Load Case 110 1.35(G+R1)+C+1.2W+1.5Q1	32
Load Case 111 G+1.35R1+C+1.2W+1.5Q1	32
Load Case 112 1.35G+R1+C+1.2W+1.5Q1	32
Load Case 113 1.35(G+R1)+C+1.5Q1+0.75T	32
Load Case 114 G+1.35R1+C+1.5Q1+0.75T	32
Load Case 115 1.35G+R1+C+1.5Q1+0.75T	32
Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	32
Load Case 117 G+1.35R1+C+1.2W+1.5Q1+0.75T	33
Load Case 118 1.35G+R1+C+1.2W+1.5Q1+0.75T	33
Load Case 119 1.35(G+R1)+C+1.5Q1+0.75T	33
Load Case 120 G+1.35R1+C+1.5Q1+0.75T	33
Load Case 121 1.35G+R1+C+1.5Q1+0.75T	33
Load Case 122 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	33
Load Case 123 G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 124 1.35G+R1+C+1.2W+1.5Q1+0.75T	34
Load Case 125 1.35(G+R1)+C+1.5Q1+0.75T	34
Load Case 126 G+1.35R1+C+1.5Q1+0.75T	34
Load Case 127 1.35G+R1+C+1.5Q1+0.75T	34
Load Case 128 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	34
Load Case 129 G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 130 1.35G+R1+C+1.2W+1.5Q1+0.75T	35
Load Case 131 1.35(G+R1)+C+1.5Q1+0.75T	35
Load Case 132 G+1.35R1+C+1.5Q1+0.75T	35
Load Case 133 1.35G+R1+C+1.5Q1+0.75T	35
Load Case 134 1.35(G+R1)+C+1.2W+1.5Q1+0.75T	35
Load Case 135 G+1.35R1+C+1.2W+1.5Q1+0.75T	35
Load Case 136 1.35G+R1+C+1.2W+1.5Q1+0.75T	35

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 138	G+1.35R1+C+0.9Q1+1.5T	36
Load Case 139	1.35G+R1+C+0.9Q1+1.5T	36
Load Case 140	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	36
Load Case 141	G+1.35R1+C+1.2W+0.9Q1+1.5T	36
Load Case 142	1.35G+R1+C+1.2W+0.9Q1+1.5T	36
Load Case 143	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 144	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 145	1.35G+R1+C+0.9Q1+1.5T	37
Load Case 146	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	37
Load Case 147	G+1.35R1+C+1.2W+0.9Q1+1.5T	37
Load Case 148	1.35G+R1+C+1.2W+0.9Q1+1.5T	37
Load Case 149	1.35(G+R1)+C+0.9Q1+1.5T	37
Load Case 150	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 151	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	38
Load Case 153	G+1.35R1+C+1.2W+0.9Q1+1.5T	38
Load Case 154	1.35G+R1+C+1.2W+0.9Q1+1.5T	38
Load Case 155	1.35(G+R1)+C+0.9Q1+1.5T	38
Load Case 156	G+1.35R1+C+0.9Q1+1.5T	38
Load Case 157	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 158	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	39
Load Case 159	G+1.35R1+C+1.2W+0.9Q1+1.5T	39
Load Case 160	1.35G+R1+C+1.2W+0.9Q1+1.5T	39
Load Case 161	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 162	G+1.35R1+C+1.2W+1.5T	39
Load Case 163	1.35G+R1+C+1.2W+1.5T	39
Load Case 164	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 165	G+1.35R1+C+1.2W+1.5T	40
Load Case 166	1.35G+R1+C+1.2W+1.5T	40
Load Case 167	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 168	G+1.35R1+C+1.2W+1.5T	40
Load Case 169	1.35G+R1+C+1.2W+1.5T	40
Load Case 170	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 171	G+1.35R1+C+1.2W+1.5T	40
Load Case 172	1.35G+R1+C+1.2W+1.5T	40
Load Case 201	1.35(G+R2)+C	41
Load Case 202	G+1.35R2+C	41
Load Case 203	1.35G+R2+C	41
Load Case 204	1.35(G+R2)+C+1.2W	41
Load Case 205	G+1.35R2+C+1.2W	41
Load Case 206	1.35G+R2+C+1.2W	41
Load Case 207	1.35(G+R2)+C+1.5Q2	41
Load Case 208	G+1.35R2+C+1.5Q2	41
Load Case 209	1.35G+R2+C+1.5Q2	42
Load Case 210	1.35(G+R2)+C+1.2W+1.5Q2	42
Load Case 211	G+1.35R2+C+1.2W+1.5Q2	42
Load Case 212	1.35G+R2+C+1.2W+1.5Q2	42
Load Case 213	1.35(G+R2)+C+1.5Q2+0.75T	42
Load Case 214	G+1.35R2+C+1.5Q2+0.75T	42
Load Case 215	1.35G+R2+C+1.5Q2+0.75T	42
Load Case 216	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	42
Load Case 217	G+1.35R2+C+1.2W+1.5Q2+0.75T	43
Load Case 218	1.35G+R2+C+1.2W+1.5Q2+0.75T	43
Load Case 219	1.35(G+R2)+C+1.5Q2+0.75T	43
Load Case 220	G+1.35R2+C+1.5Q2+0.75T	43
Load Case 221	1.35G+R2+C+1.5Q2+0.75T	43
Load Case 222	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	43
Load Case 223	G+1.35R2+C+1.2W+1.5Q2+0.75T	44

- ΑΓΩΓΟΣ Α2 -

Load Case 224	1.35G+R2+C+1.2W+1.5Q2+0.75T	44
Load Case 225	1.35(G+R2)+C+1.5Q2+0.75T	44
Load Case 226	G+1.35R2+C+1.5Q2+0.75T	44
Load Case 227	1.35G+R2+C+1.5Q2+0.75T	44
Load Case 228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	44
Load Case 229	G+1.35R2+C+1.2W+1.5Q2+0.75T	44
Load Case 230	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 231	1.35(G+R2)+C+1.5Q2+0.75T	45
Load Case 232	G+1.35R2+C+1.5Q2+0.75T	45
Load Case 233	1.35G+R2+C+1.5Q2+0.75T	45
Load Case 234	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	45
Load Case 235	G+1.35R2+C+1.2W+1.5Q2+0.75T	45
Load Case 236	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 237	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 238	G+1.35R2+C+0.9Q2+1.5T	46
Load Case 239	1.35G+R2+C+0.9Q2+1.5T	46
Load Case 240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	46
Load Case 241	G+1.35R2+C+1.2W+0.9Q2+1.5T	46
Load Case 242	1.35G+R2+C+1.2W+0.9Q2+1.5T	46
Load Case 243	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 244	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 245	1.35G+R2+C+0.9Q2+1.5T	47
Load Case 246	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	47
Load Case 247	G+1.35R2+C+1.2W+0.9Q2+1.5T	47
Load Case 248	1.35G+R2+C+1.2W+0.9Q2+1.5T	47
Load Case 249	1.35(G+R2)+C+0.9Q2+1.5T	47
Load Case 250	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 251	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	48
Load Case 253	G+1.35R2+C+1.2W+0.9Q2+1.5T	48
Load Case 254	1.35G+R2+C+1.2W+0.9Q2+1.5T	48
Load Case 255	1.35(G+R2)+C+0.9Q2+1.5T	48
Load Case 256	G+1.35R2+C+0.9Q2+1.5T	48
Load Case 257	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	49
Load Case 259	G+1.35R2+C+1.2W+0.9Q2+1.5T	49
Load Case 260	1.35G+R2+C+1.2W+0.9Q2+1.5T	49
Load Case 261	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 262	G+1.35R2+C+1.2W+1.5T	49
Load Case 263	1.35G+R2+C+1.2W+1.5T	49
Load Case 264	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 265	G+1.35R2+C+1.2W+1.5T	50
Load Case 266	1.35G+R2+C+1.2W+1.5T	50
Load Case 267	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 268	G+1.35R2+C+1.2W+1.5T	50
Load Case 269	1.35G+R2+C+1.2W+1.5T	50
Load Case 270	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 271	G+1.35R2+C+1.2W+1.5T	50
Load Case 272	1.35G+R2+C+1.2W+1.5T	50

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311	$G+C+R1+0.2(W+Q1)+EA1$	53
Load Case 312	$G+C+R1+0.2(W+Q1)-EA1$	53
Load Case 313	$G+C+R1+0.2(W+Q1)+ES1$	53
Load Case 321	$G+C+R2+0.2(W+Q2)+EA2$	53
Load Case 322	$G+C+R2+0.2(W+Q2)-EA2$	53

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 323 G+C+R2+0.2(W+Q2)+ES2

53

Introduction

54

ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C

55

Load Case 411 G+C+R1

55

Load Case 412 G+C+R1+W

55

Load Case 413 G+C+R1+Q1

55

Load Case 414 G+C+R1+W+Q1

55

Load Case 415 G+C+R1+T

55

Load Case 416 G+C+R1+T

55

Load Case 417 G+C+R1+T

55

Load Case 418 G+C+R1+T

55

Load Case 421 G+C+R2

56

Load Case 422 G+C+R2+W

56

Load Case 423 G+C+R2+Q2

56

Load Case 424 G+C+R2+W+Q2

56

Load Case 425 G+C+R2+T

56

Load Case 426 G+C+R2+T

56

Load Case 427 G+C+R2+T

56

Load Case 428 G+C+R2+T

56

Introduction

57

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Introduction

58

Conclusion

58

Introduction

62

ΑΠΟΤΕΛΕΣΜΑΤΑ

Spring force LC: 124 Nodal displacement vector LC: 124

63

Beam Elements , Normal force Nx LC: 124 Beam Elements , Shear force Vz LC: 124 Beam Elements ,

64

Spring force LC: 140 Nodal displacement vector LC: 140

65

Beam Elements , Normal force Nx LC: 140 Beam Elements , Shear force Vz LC: 140 Beam Elements ,

66

Spring force LC: 150 Nodal displacement vector LC: 150

67

Beam Elements , Normal force Nx LC: 150 Beam Elements , Shear force Vz LC: 150 Beam Elements ,

68

Spring force LC: 201 Nodal displacement vector LC: 201

69

Beam Elements , Normal force Nx LC: 201 Beam Elements , Shear force Vz LC: 201 Beam Elements ,

70

Spring force LC: 268 Nodal displacement vector LC: 268

71

Beam Elements , Normal force Nx LC: 268 Beam Elements , Shear force Vz LC: 268 Beam Elements ,

72

Spring force LC: 311 Nodal displacement vector LC: 311

73

Beam Elements , Normal force Nx LC: 311 Beam Elements , Shear force Vz LC: 311 Beam Elements ,

74

Spring force LC: 312 Nodal displacement vector LC: 312

75

Beam Elements , Normal force Nx LC: 312 Beam Elements , Shear force Vz LC: 312 Beam Elements ,

76

Spring force LC: 323 Nodal displacement vector LC: 323

77

Beam Elements , Normal force Nx LC: 323 Beam Elements , Shear force Vz LC: 323 Beam Elements ,

78

Spring force LC: 411 Nodal displacement vector LC: 411

79

Beam Elements , Normal force Nx LC: 411 Beam Elements , Shear force Vz LC: 411 Beam Elements ,

80

Spring force LC: 428 Nodal displacement vector LC: 428

81

Beam Elements , Normal force Nx LC: 428 Beam Elements , Shear force Vz LC: 428 Beam Elements ,

82

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

•	Introduction	83
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	84
	Combination rule Number 1	84
	Load Case selection	84
	Generated Load Cases	86
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1121 Supporting springs , Spring force LC: 1122	87
	Nodal displacement in global Y LC: 1113 Nodal displacement in global Y LC: 1114	88
	Nodal displacement in global X LC: 1111 Nodal displacement in global X LC: 1112	89
	Beam Elements , Normal force Nx LC: 1101 Beam Elements , Bending moment My LC: 1101	90
	Beam Elements , Normal force Nx LC: 1102 Beam Elements , Bending moment My LC: 1102	91
	Beam Elements , Normal force Nx LC: 1103 Beam Elements , Bending moment My LC: 1103	92
	Beam Elements , Normal force Nx LC: 1104 Beam Elements , Bending moment My LC: 1104	93
	Beam Elements , Shear force Vz LC: 1105 Beam Elements , Shear force Vz LC: 1106	94
•	Introduction	95
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	96
	Combination rule Number 2	96
	Load Case selection	96
	Generated Load Cases	96
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1221 Supporting springs , Spring force LC: 1222	97
	Nodal displacement in global Y LC: 1213 Nodal displacement in global Y LC: 1214	98
	Nodal displacement in global X LC: 1211 Nodal displacement in global X LC: 1212	99
	Beam Elements , Normal force Nx LC: 1201 Beam Elements , Bending moment My LC: 1201	100
	Beam Elements , Normal force Nx LC: 1202 Beam Elements , Bending moment My LC: 1202	101
	Beam Elements , Normal force Nx LC: 1203 Beam Elements , Bending moment My LC: 1203	102
	Beam Elements , Normal force Nx LC: 1204 Beam Elements , Bending moment My LC: 1204	103
	Beam Elements , Shear force Vz LC: 1205 Beam Elements , Shear force Vz LC: 1206	104
•	Introduction	105
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	106
	Combination rule Number 3	106
	Load Case selection	106
	Generated Load Cases	106
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1321 Supporting springs , Spring force LC: 1322	107
	Nodal displacement in global Y LC: 1313 Nodal displacement in global Y LC: 1314	108
	Nodal displacement in global X LC: 1311 Nodal displacement in global X LC: 1312	109
	Beam Elements , Normal force Nx LC: 1301 Beam Elements , Bending moment My LC: 1301	110
	Beam Elements , Normal force Nx LC: 1302 Beam Elements , Bending moment My LC: 1302	111
	Beam Elements , Normal force Nx LC: 1303 Beam Elements , Bending moment My LC: 1303	112
	Beam Elements , Normal force Nx LC: 1304 Beam Elements , Bending moment My LC: 1304	113
	Beam Elements , Shear force Vz LC: 1305 Beam Elements , Shear force Vz LC: 1306	114
	ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)	
	Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	115
	Selected Beam Elements	115

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)	
Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures	115
Shear Design	115
Longitudinal Reinforcements - Design case No. 1	116
Shear Reinforcements per Cutted Part of Section - Design case No. 1	118
Maximum Utilisation Level	119
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)	
Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	120
Selected Beam Elements	120
Nonlinear Stresses	120
Parameters for Nonlinear Stresses	120
Maximum Stresses and Checked Limits	120
Longitudinal Reinforcements - Design case No. 2	120
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ	
Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 1 Beam Elements , Longitudinal Reinforce	124
Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 2 Beam Elements , Longitudinal Reinforce	125
Shear reinforcements (maximum) BC: 2	126

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)
Snow load zone : 1

Mat 1 C 25/30 (EN 1992)

Young's modulus	E	31476	[N/mm ²]	Safetyfactor		1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	25.00	[MPa]
Shear modulus	G	13115	[N/mm ²]	Nominal strength	fck	25.00	[MPa]
Compression modulus	K	17487	[N/mm ²]	Tensile strength	fctm	2.56	[MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.80	[MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	3.33	[MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.69	[MPa]
				Service strength	fcm	33.00	[MPa]
				Fatigue strength	fcd,fat	12.75	[MPa]
				Tensile strength	fctd	1.20	[MPa]
				Tensile failure energy	Gf	0.14	[N/mm]

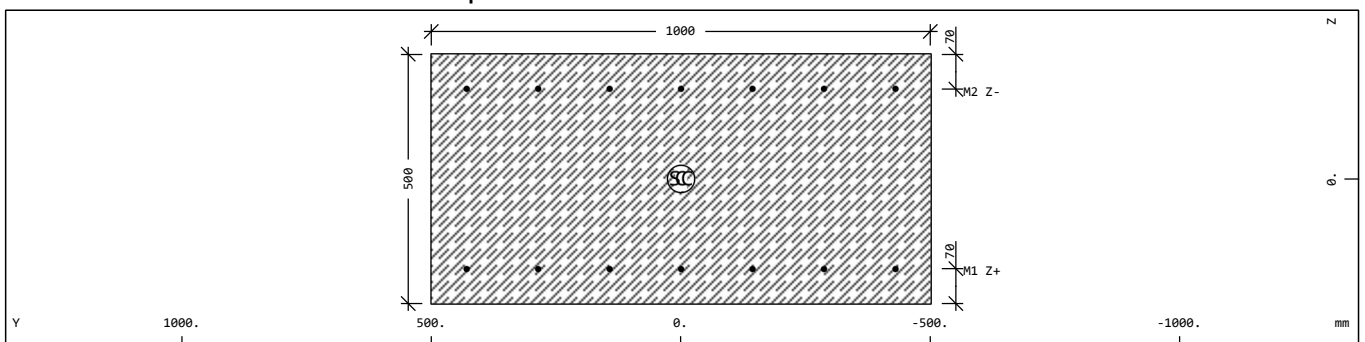
Mat 2 B 500 C (EN 1992)

Young's modulus	E	200000	[N/mm ²]	Safetyfactor		1.15	[-]
Poisson's ratio	μ	0.30	[-]	Yield stress	fy	500.00	[MPa]
Shear modulus	G	76923	[N/mm ²]	Compressive yield	fyc	500.00	[MPa]
Compression modulus	K	166667	[N/mm ²]	Tensile strength	ft	575.00	[MPa]
Nominal Weight	γ	78.5	[kN/m ³]	Compressive strength	fc	575.00	[MPa]
Mean density	ρ	7850.0	[kg/m ³]	Ultimate strain		75.00	[o/oo]
Elongation coefficient	α	1.20E-05	[1/K]	relative bond coeff.		1.00	[-]
max. thickness	t-max	32.00	[mm]	EN 1992 bond coeff.	k1	0.80	[-]
				Hardening modulus	Eh	0.00	[MPa]
				Proportional limit	fp	500.00	[MPa]
				Dynamic allowance	σ-dyn	152.17	[MPa]

Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Young's modulus	E	5000000	[N/mm ²]	Safetyfactor		1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	20.00	[MPa]
Shear modulus	G	2083333	[N/mm ²]	Nominal strength	fck	20.00	[MPa]
Compression modulus	K	2777778	[N/mm ²]	Tensile strength	fctm	2.21	[MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.55	[MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	2.87	[MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.32	[MPa]
				Service strength	fcm	28.00	[MPa]
				Fatigue strength	fcd,fat	10.43	[MPa]
				Tensile strength	fctd	1.03	[MPa]
				Tensile failure energy	Gf	0.13	[N/mm]

Cross section No. 1 - Πλάκα Πυθμένα



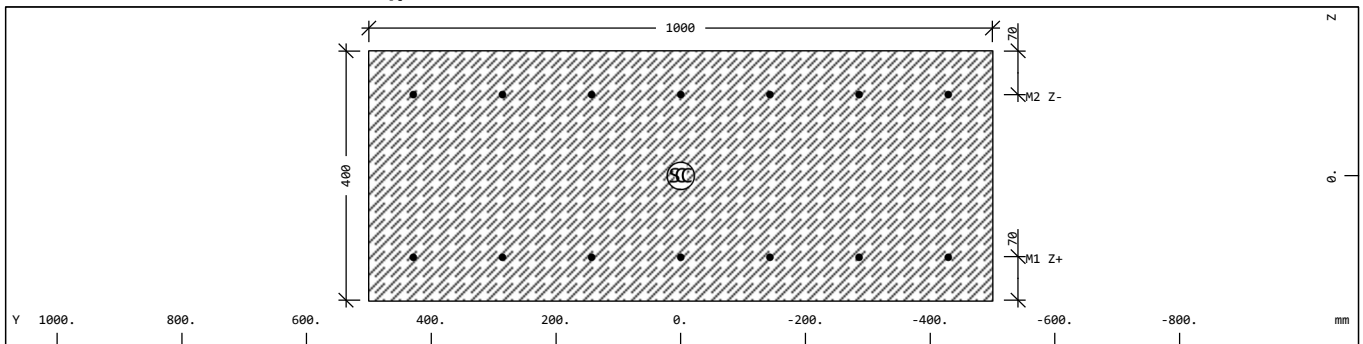
Cross section No. 1 - Πλάκα Πυθμένα

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
1	1	5.0000E-01	4.167E-01	1.042E-02	0.0	0.0	31476	1250.0	4.167E-02
	2	2.859E-02	4.167E-01	4.167E-02	0.0	0.0	13115	(CENTR)	1.042E-02
= Πλάκα Πυθμένα									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 2 - Τοίχοι

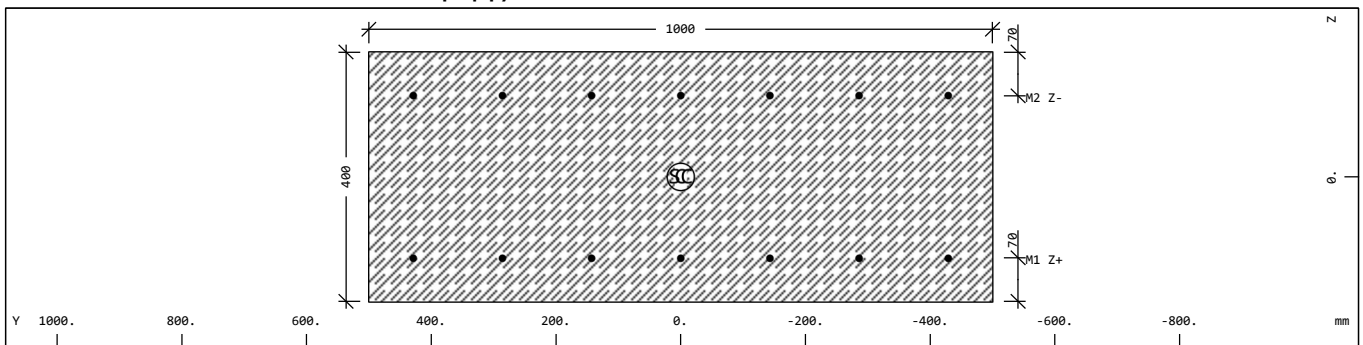


Cross section No. 2 - Τοίχοι

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
2	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	31476	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	13115	(CENTR)	5.333E-03
= Τοίχοι									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 3 - Πλάκα Οροφής



Cross section No. 3 - Πλάκα Οροφής

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
3	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	31476	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	13115	(CENTR)	5.333E-03
= Πλάκα Οροφής									
SNo	section number				yc[mm],zc[mm]		ordinate of elastic centroid		
Mat	material number				ysc[mm],zsc[mm]		ordinate of shear centre		
A[m2]	sectional area				E[N/mm2]		Young's modulus		
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area				g[kg/m]		weight per length		
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups

Grp	number	Type	min-no	max-no	Designation
0	33	SPRI	1	33	Έδραση
1	32	BEAM	101	132	Πυθμένας
2	15	BEAM	201	215	Τοίχος (Αρ)
3	15	BEAM	301	315	Τοίχος (Δεξ)
4	24	BEAM	401	424	Πλάκα
5	16	SPRI	501	516	Πλ. Έδραση (Αρ)
6	16	SPRI	601	616	Πλ. Έδραση (Δεξ)
Grp primary group number number number of elements within group Type element type min-no,max-no minimum/maximum element number					

Summary of beam elements

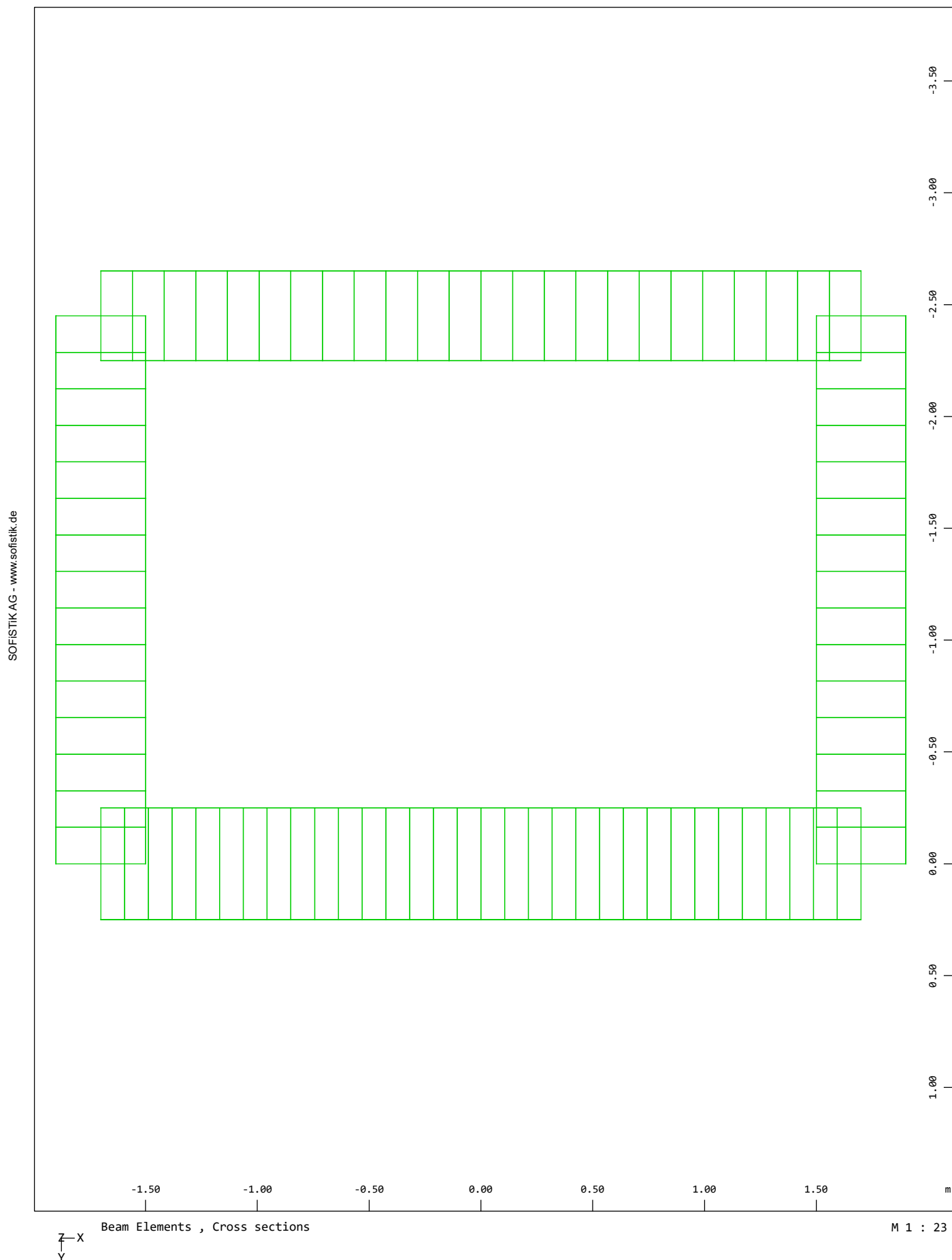
Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]
1	3.400	0.106	1.700	4.250
2	2.450	0.163	0.980	2.450
3	2.450	0.163	0.980	2.450
4	3.400	0.142	1.360	3.400
Sum	11.700		5.020	12.550
Grp primary group number				

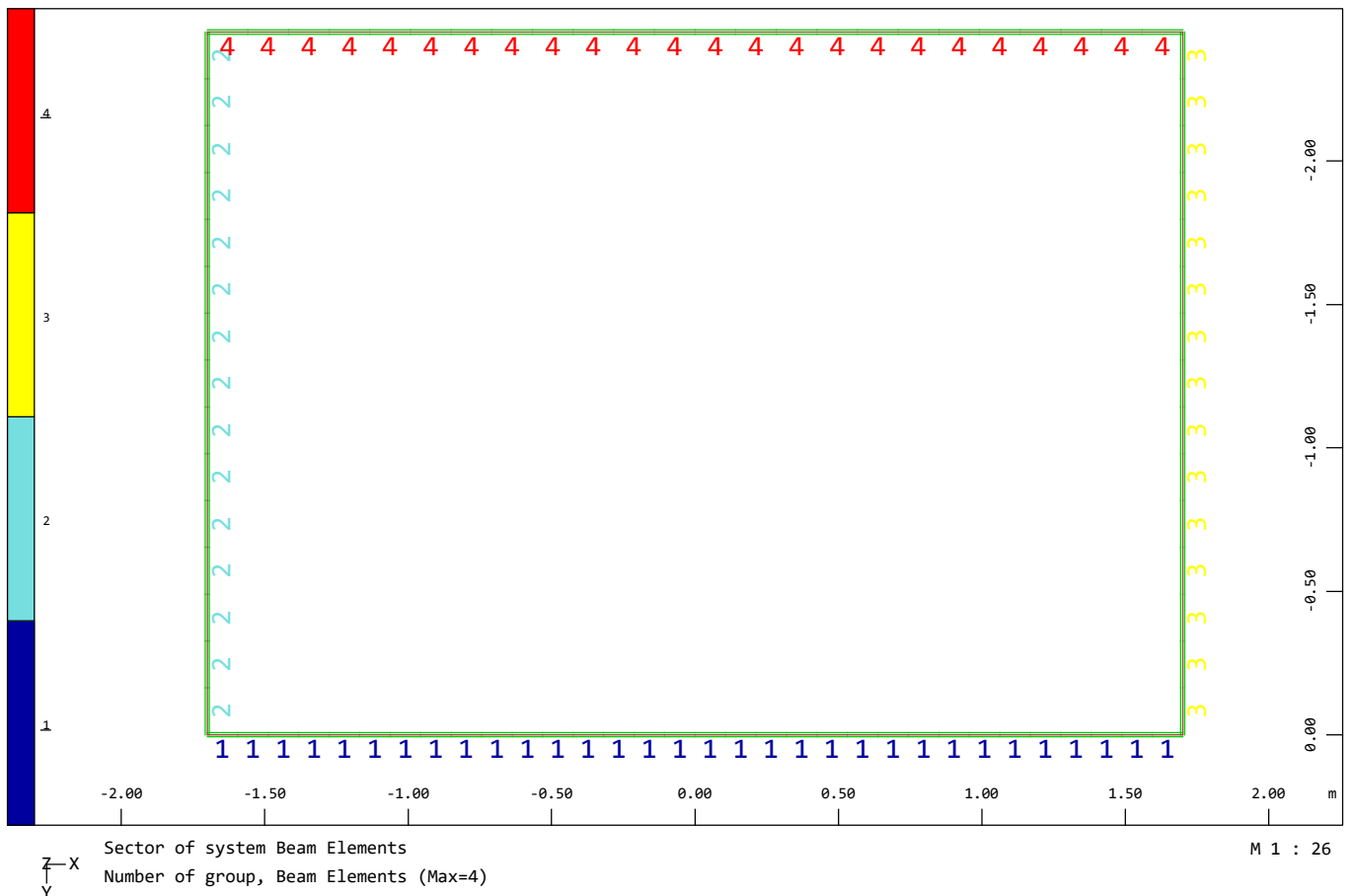
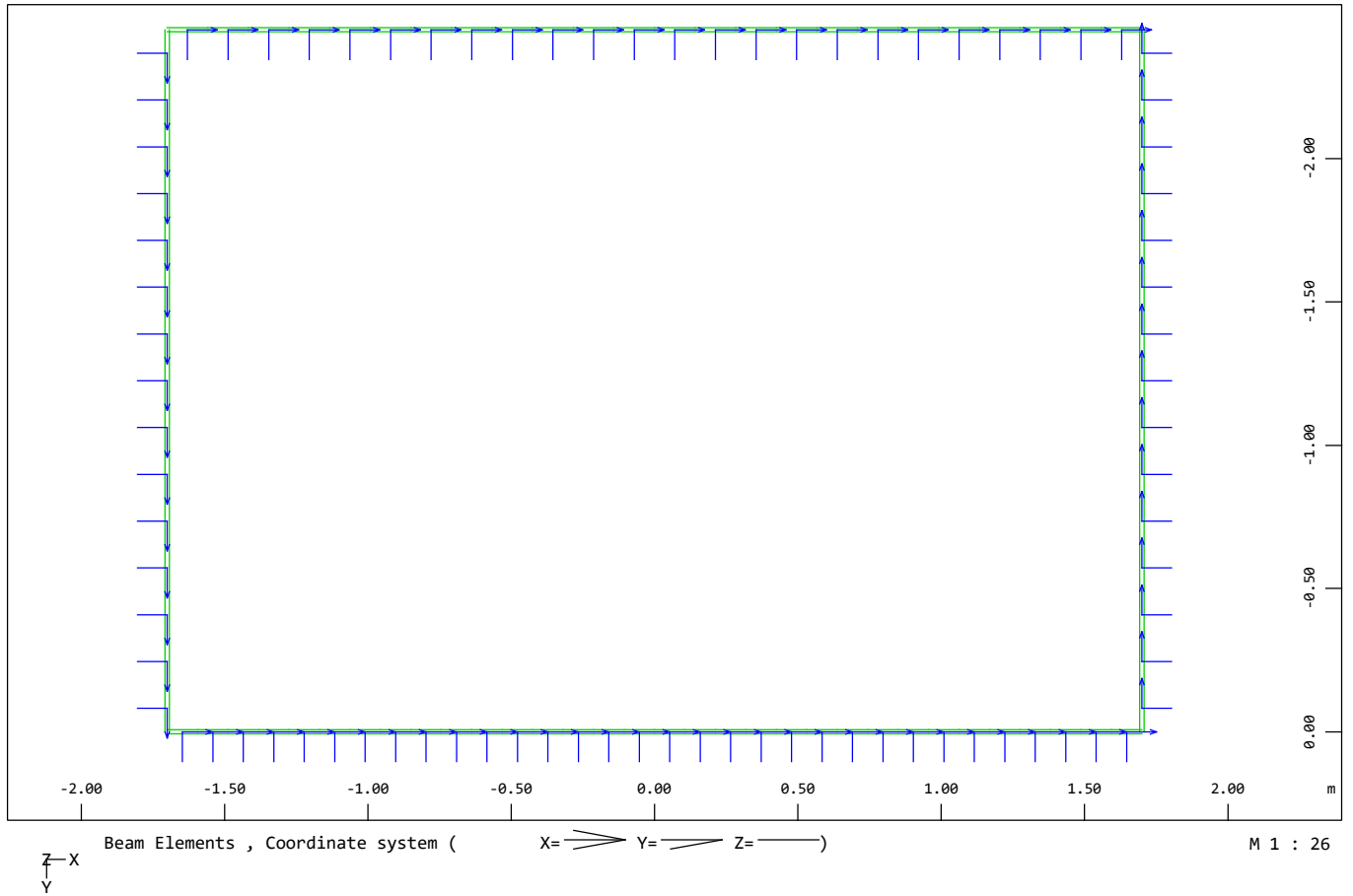
Cross sections

SNo	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Designation
1	3.400	0.106	1.700	4.250	Πλάκα Πυθμένα
2	4.900	0.163	1.960	4.900	Τοίχοι
3	3.400	0.142	1.360	3.400	Πλάκα Οροφής
Sum	11.700		5.020	12.550	
SNo section number					

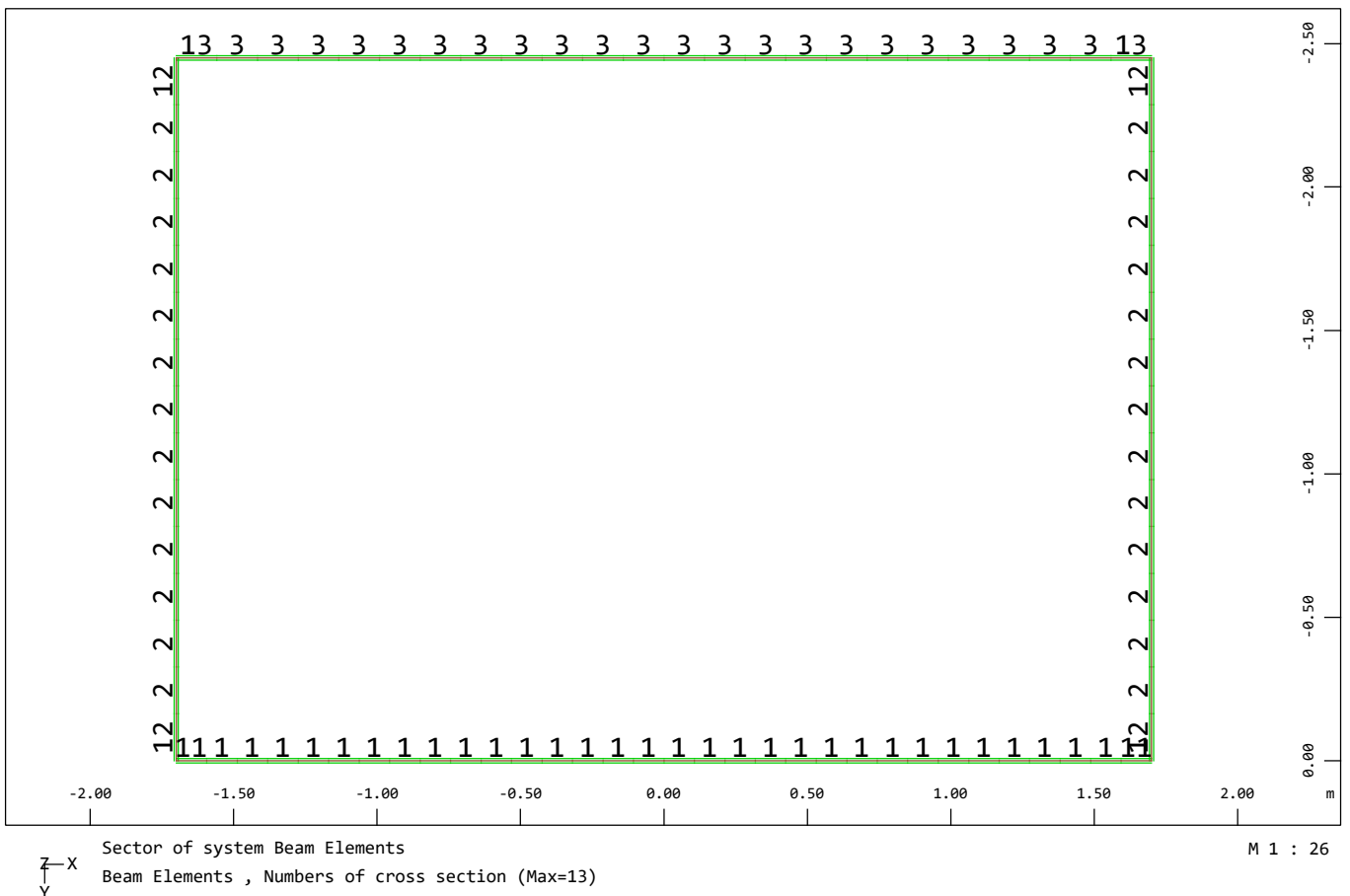
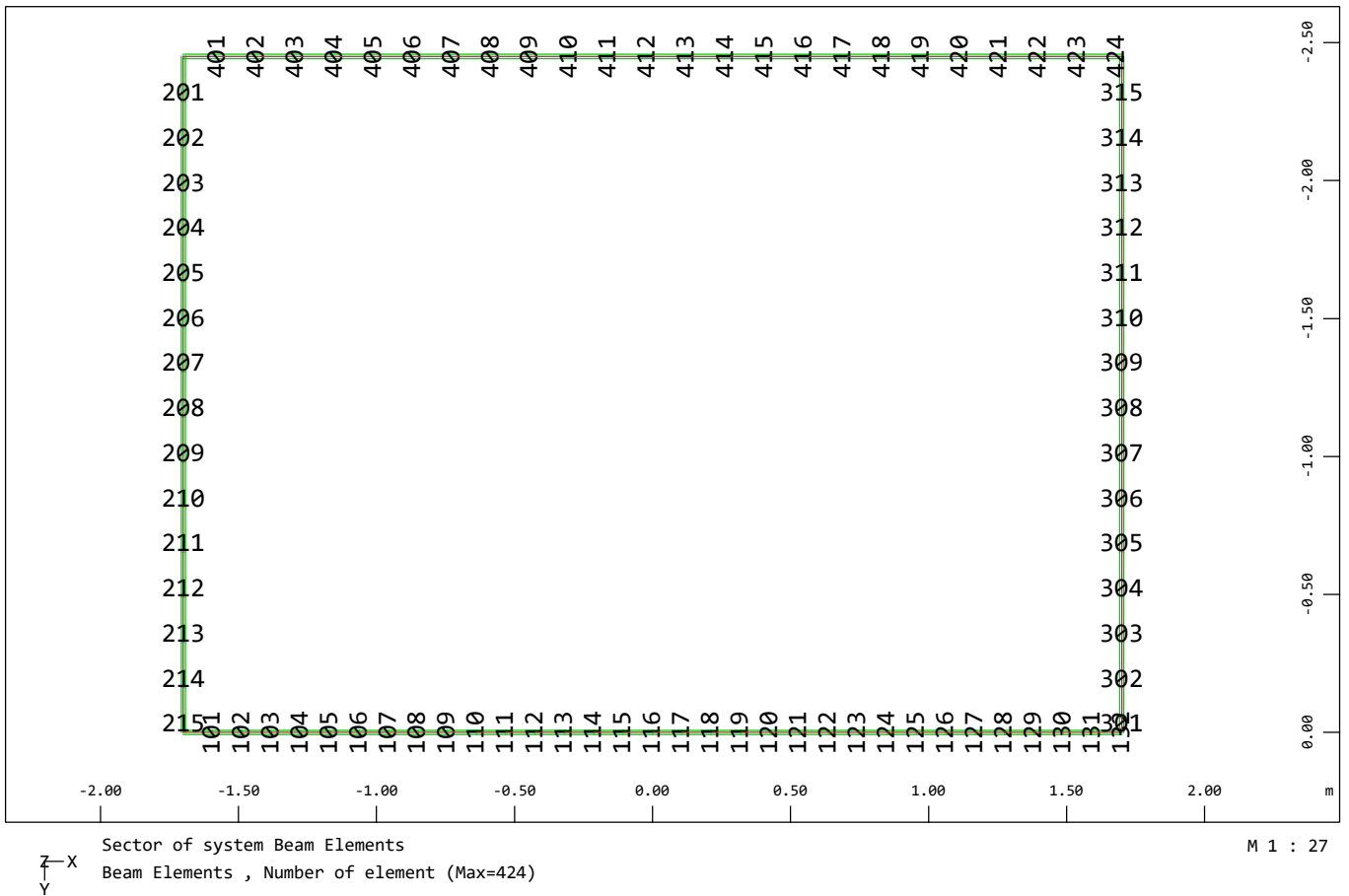
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



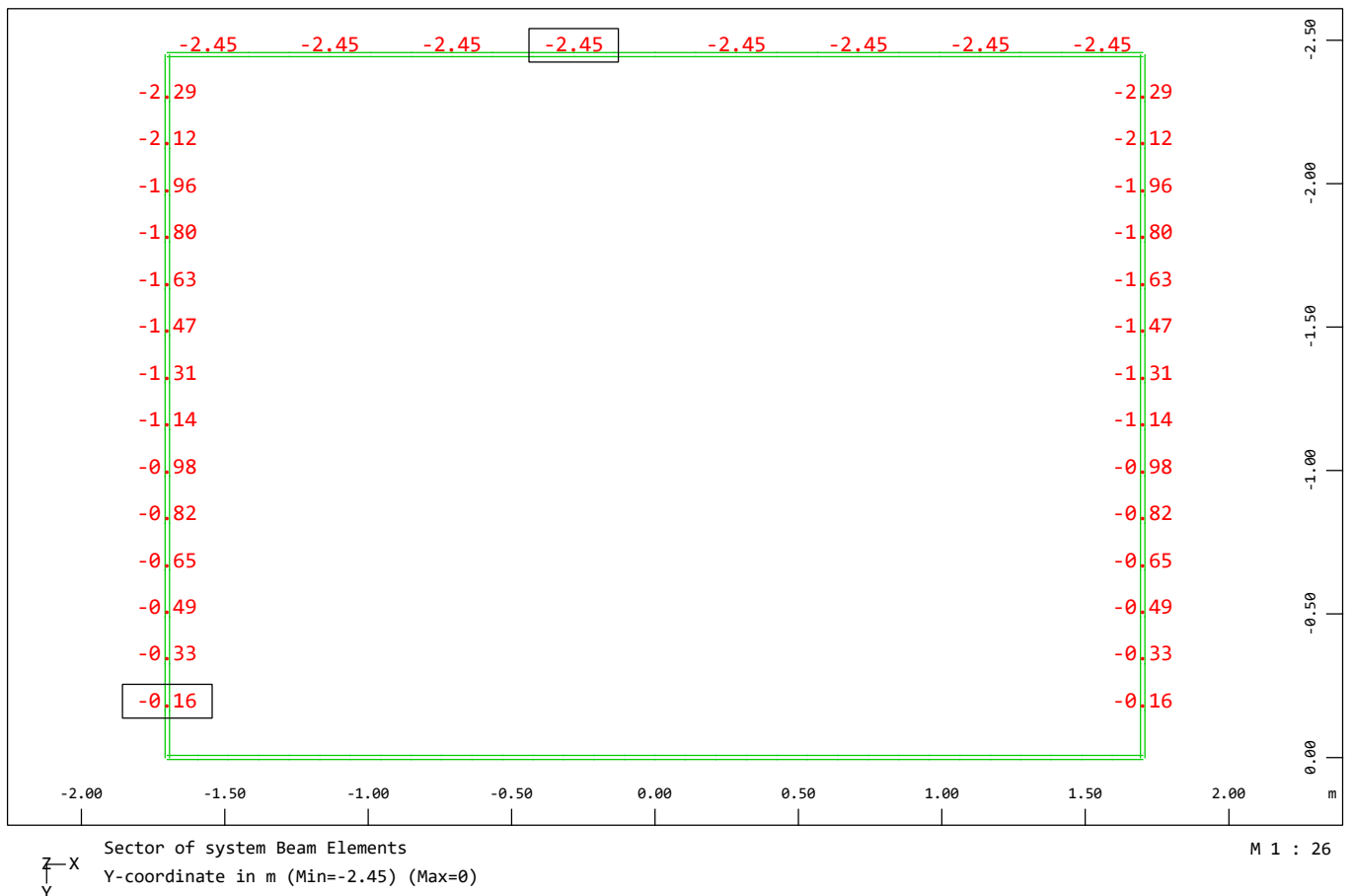
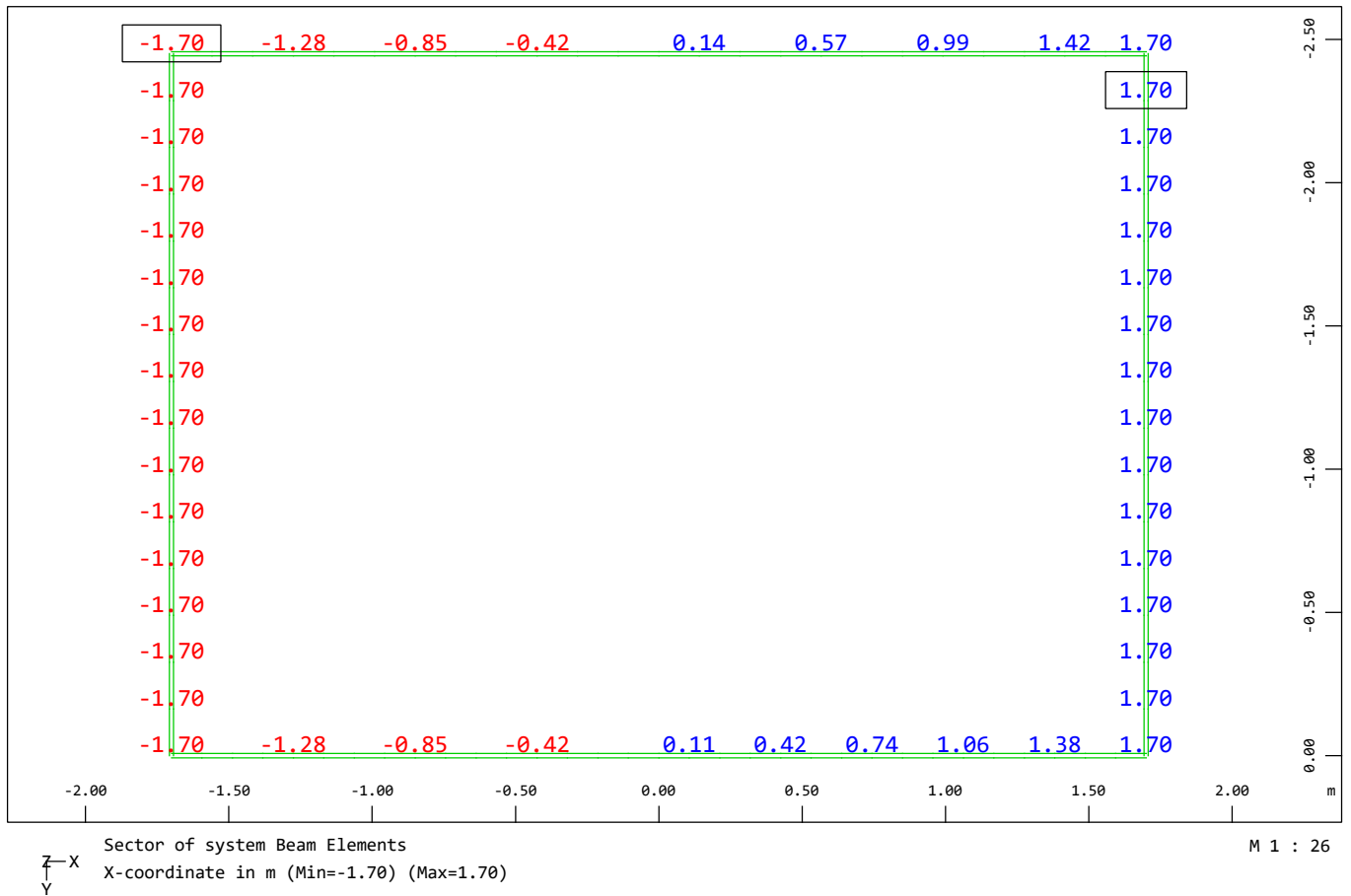
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



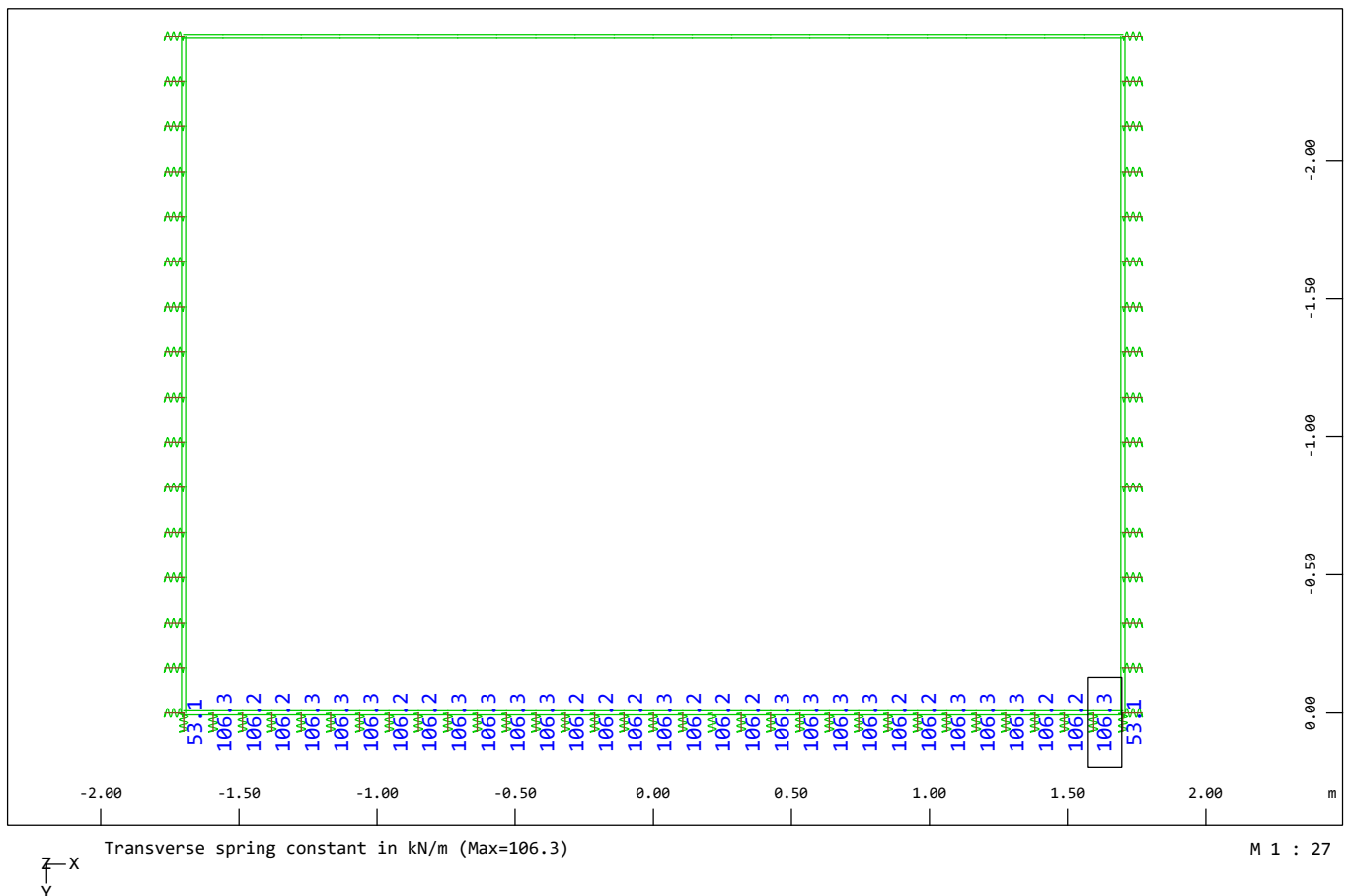
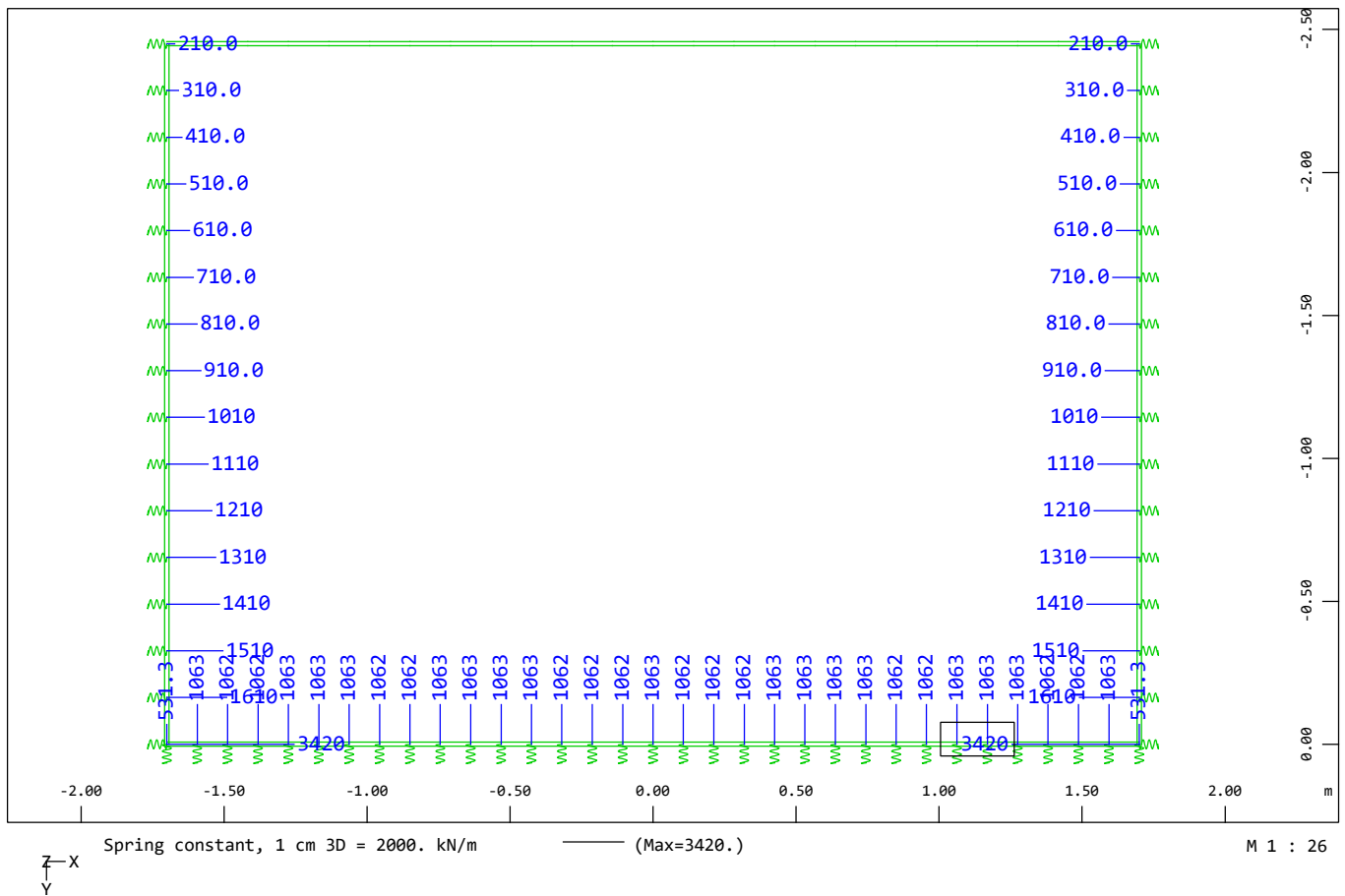
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

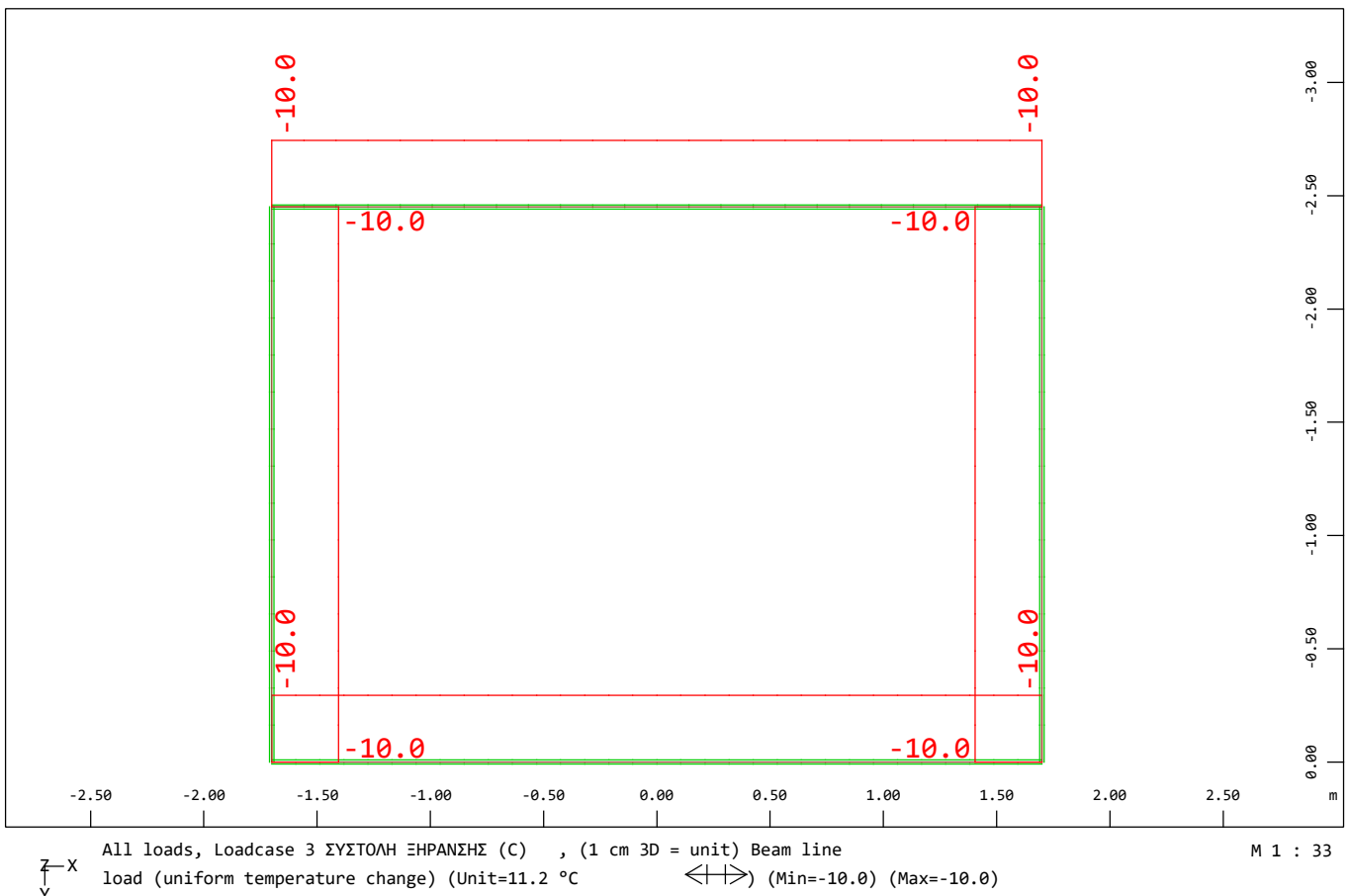
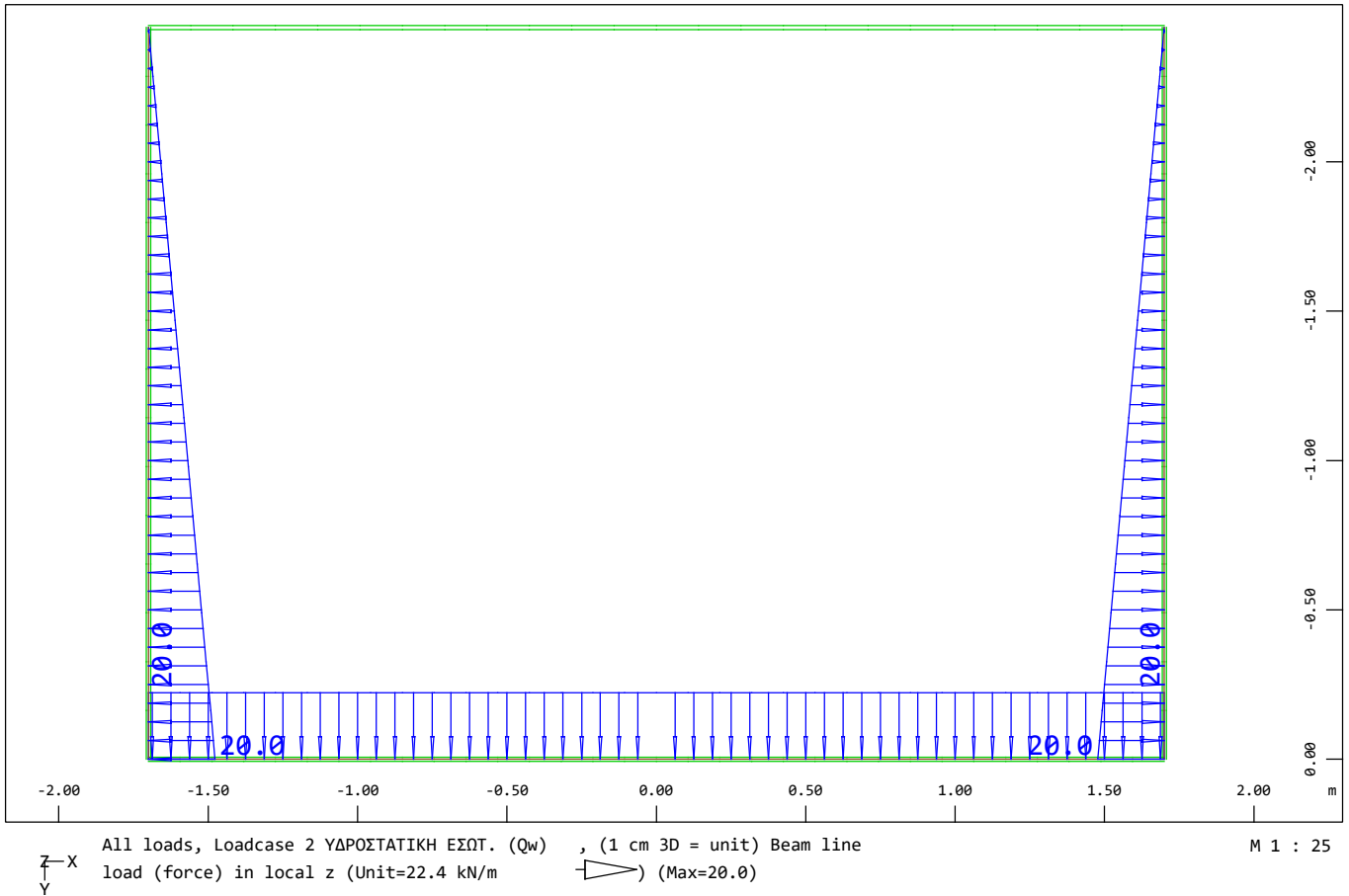
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ΟΡΙΣΜΟΣ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

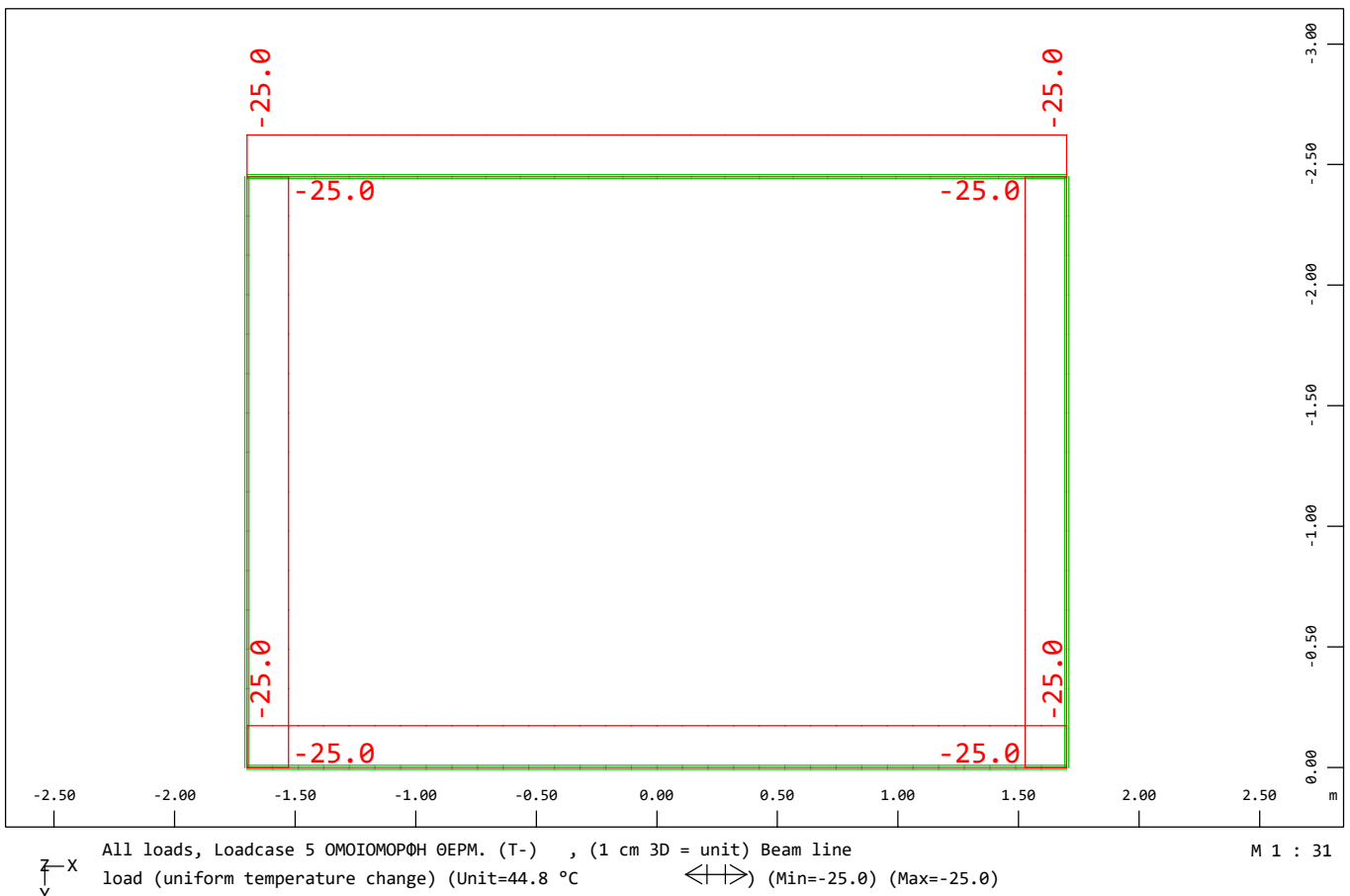
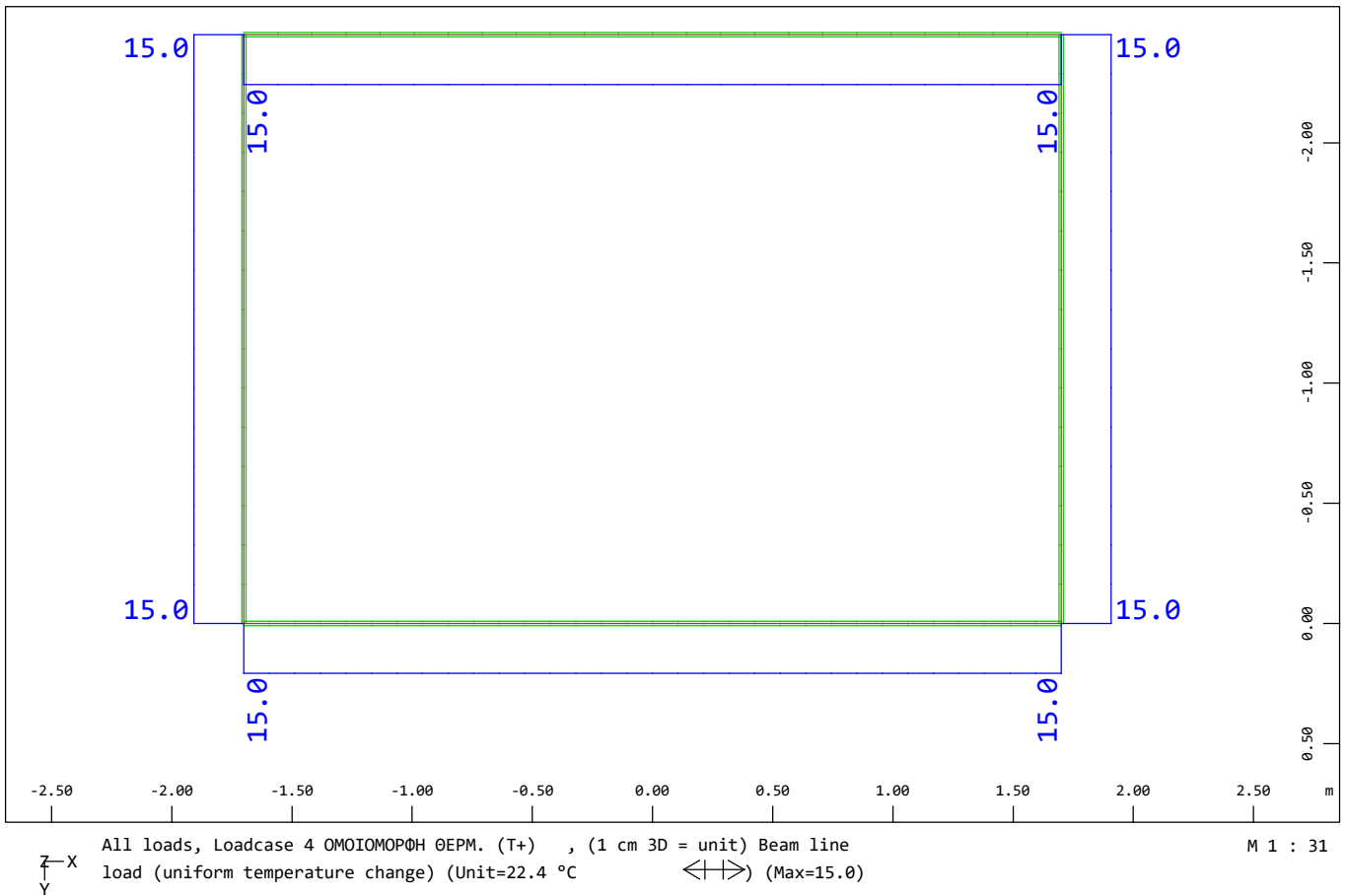
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case	1 ΙΔΙΟ ΒΑΡΟΣ (G)	
Factor forces and moments		1.000
Factor dead weight	DL-YY	1.000
Load Case	2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	
Factor forces and moments		1.000
Load Case	3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	
Factor forces and moments		1.000
Load Case	4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	
Factor forces and moments		1.000
Load Case	5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	
Factor forces and moments		1.000
Load Case	6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	
Factor forces and moments		1.000
Load Case	7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	
Factor forces and moments		1.000
Load Case	11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=1.1) (R1)	
Factor forces and moments		1.000
Load Case	12 ΚΙΝΗΤΑ (Hεπ.=1.1) (Q1)	
Factor forces and moments		1.000
Load Case	13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (EA1)	
Factor forces and moments		1.000
Load Case	14 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (ES1)	
Factor forces and moments		1.000
Load Case	21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=2.1) (R2)	
Factor forces and moments		1.000
Load Case	22 ΚΙΝΗΤΑ (Hεπ.=2.1) (Q2)	
Factor forces and moments		1.000
Load Case	23 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (EA2)	
Factor forces and moments		1.000
Load Case	24 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (ES2)	
Factor forces and moments		1.000

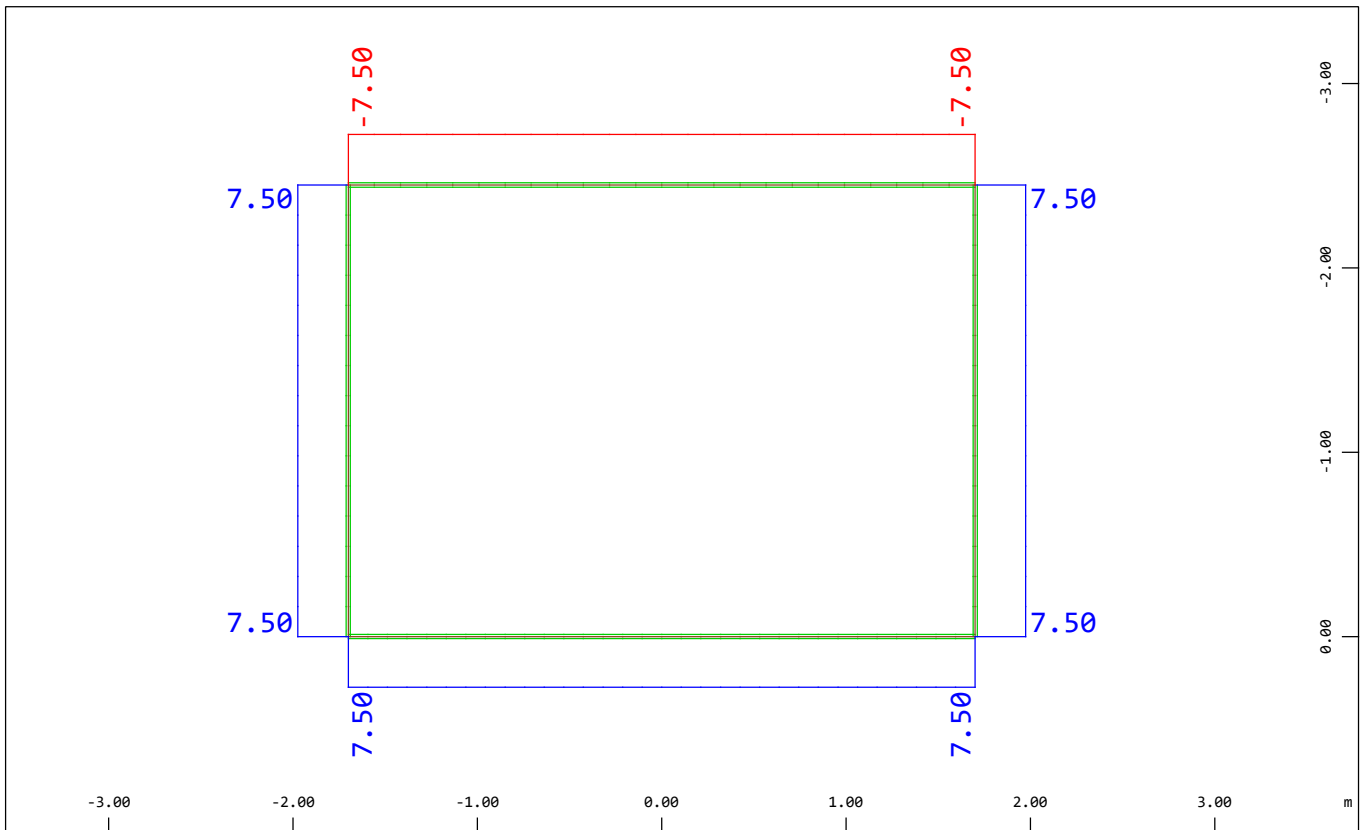
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΥΔΡΟΣΤΑΤΙΚΗ ΠΙΕΣΗ & ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ



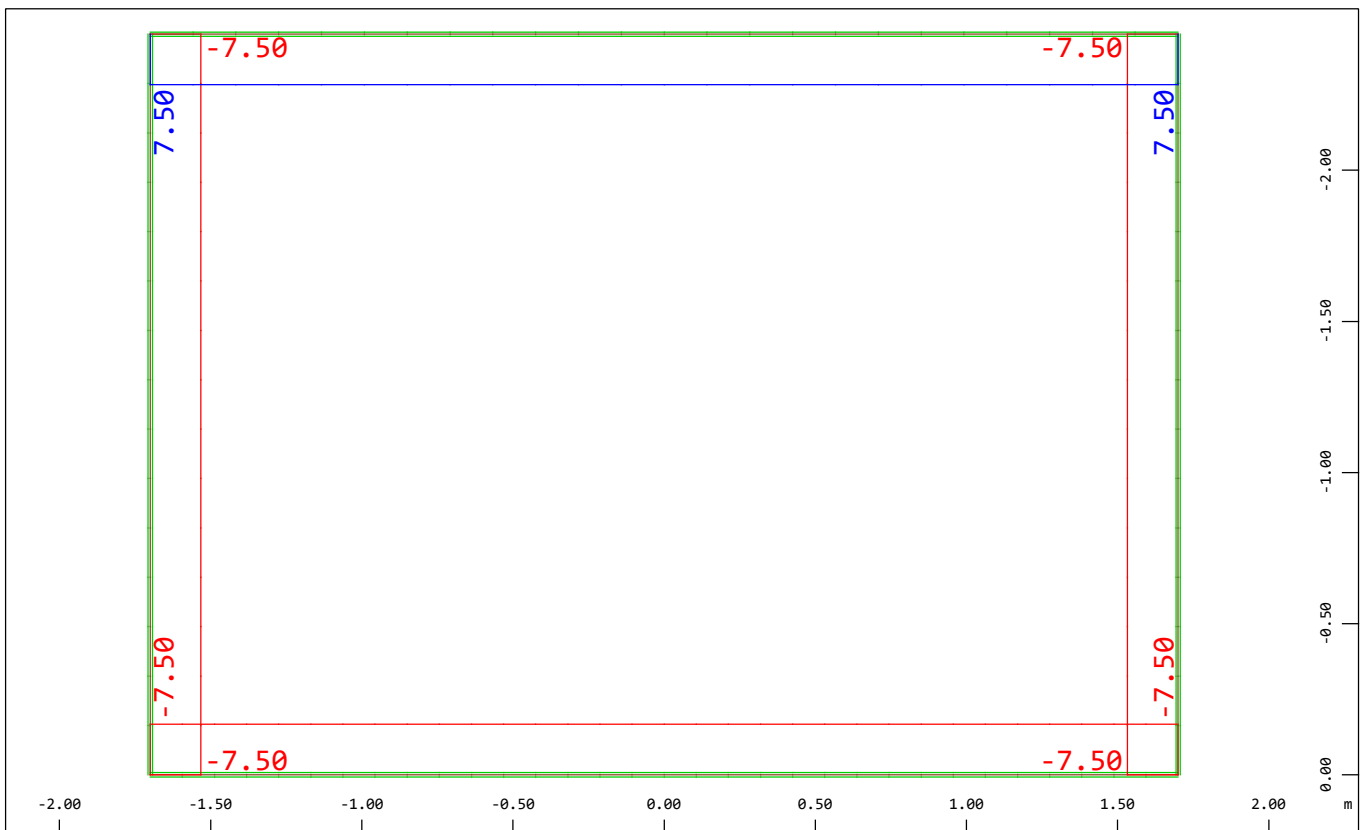
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΦΟΡΤΙΑ ΟΜΟΙΟΜΟΡΦΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ T+ & T-



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΦΟΡΤΙΑ ΚΑΜΠΤΙΚΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ dT+ & dT-

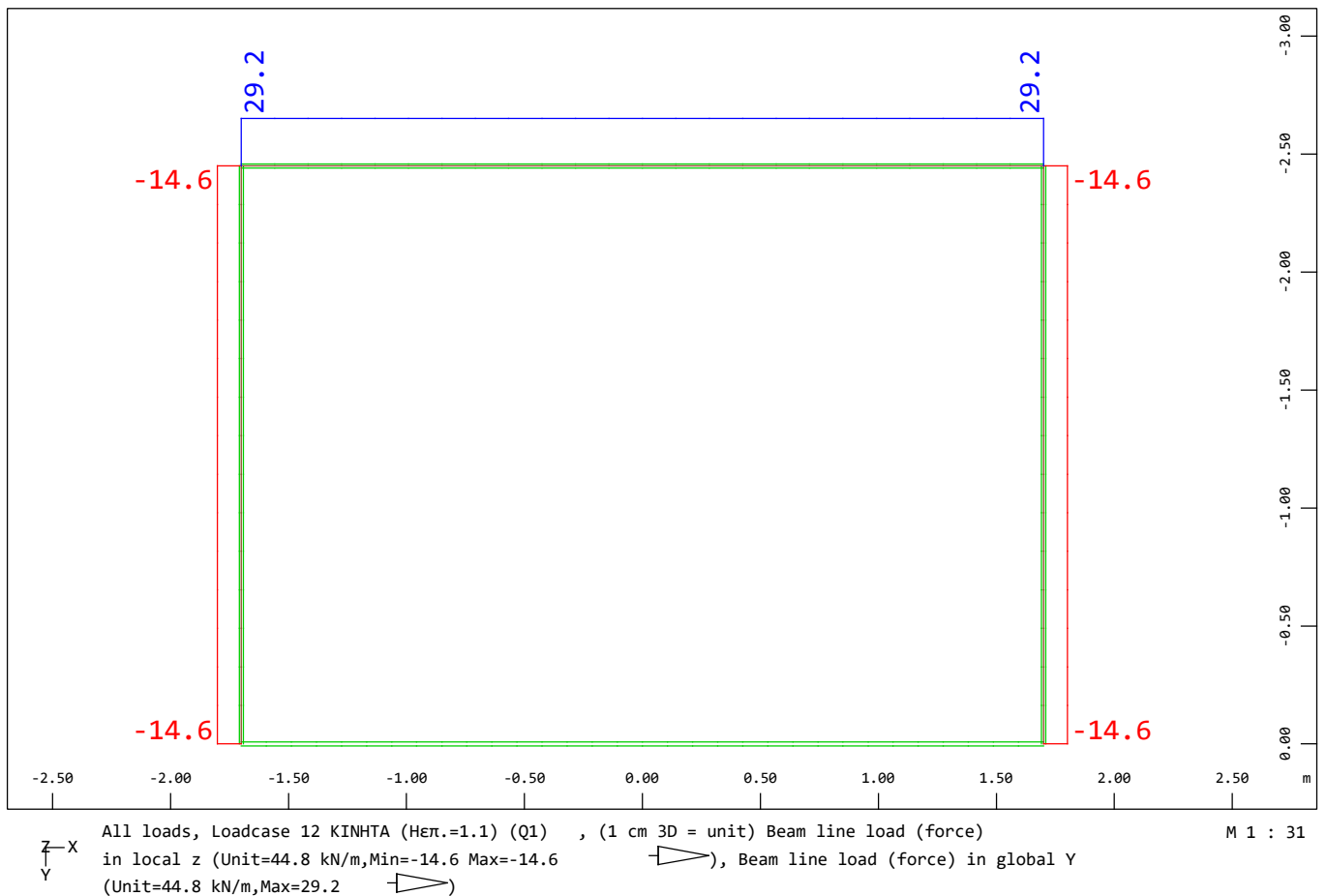
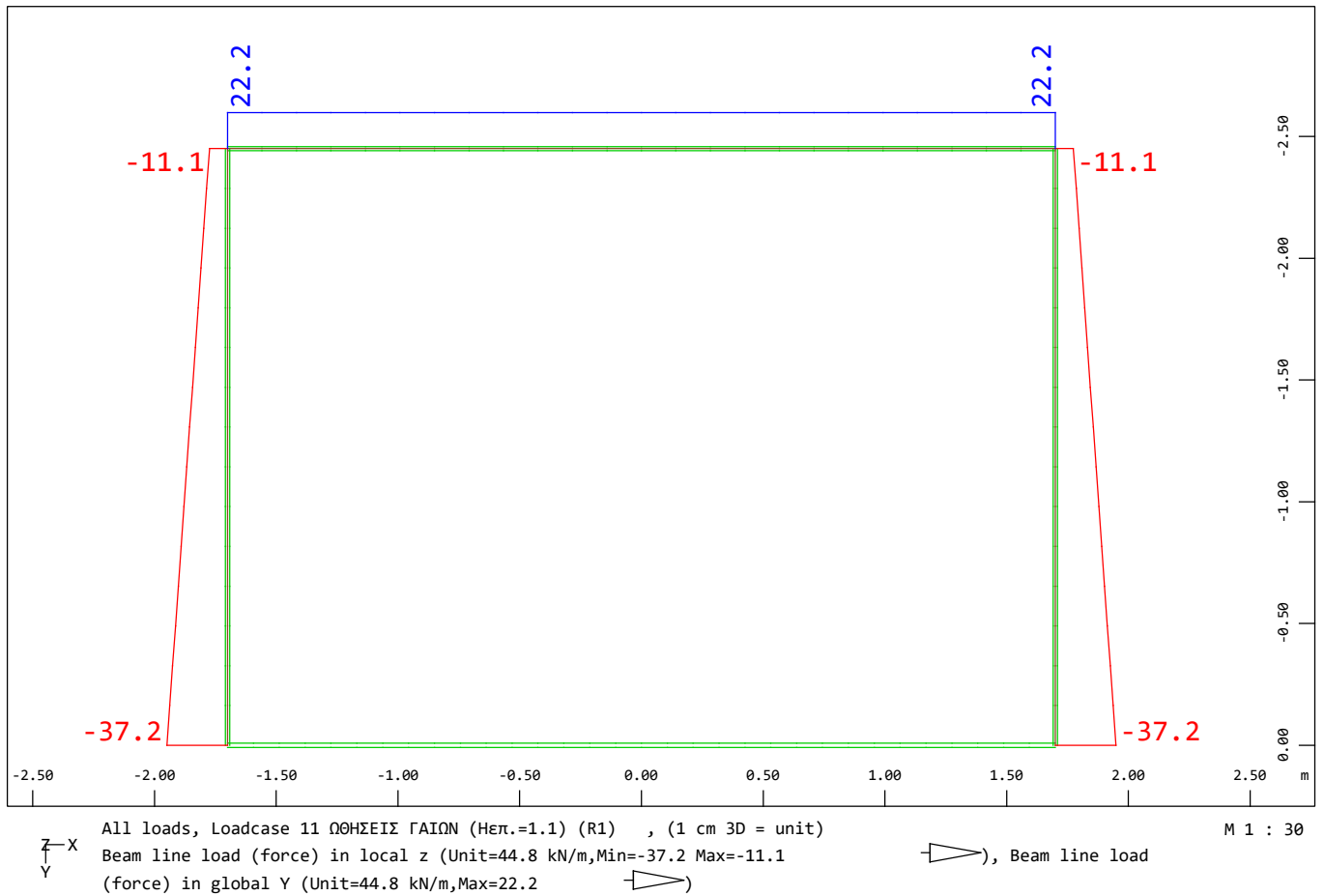


All loads, Loadcase 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+) , (1 cm 3D = unit) Beam line load (temperature increase) in local z (Unit=11.2 °C) (Min=-7.50) (Max=7.50) M 1 : 41

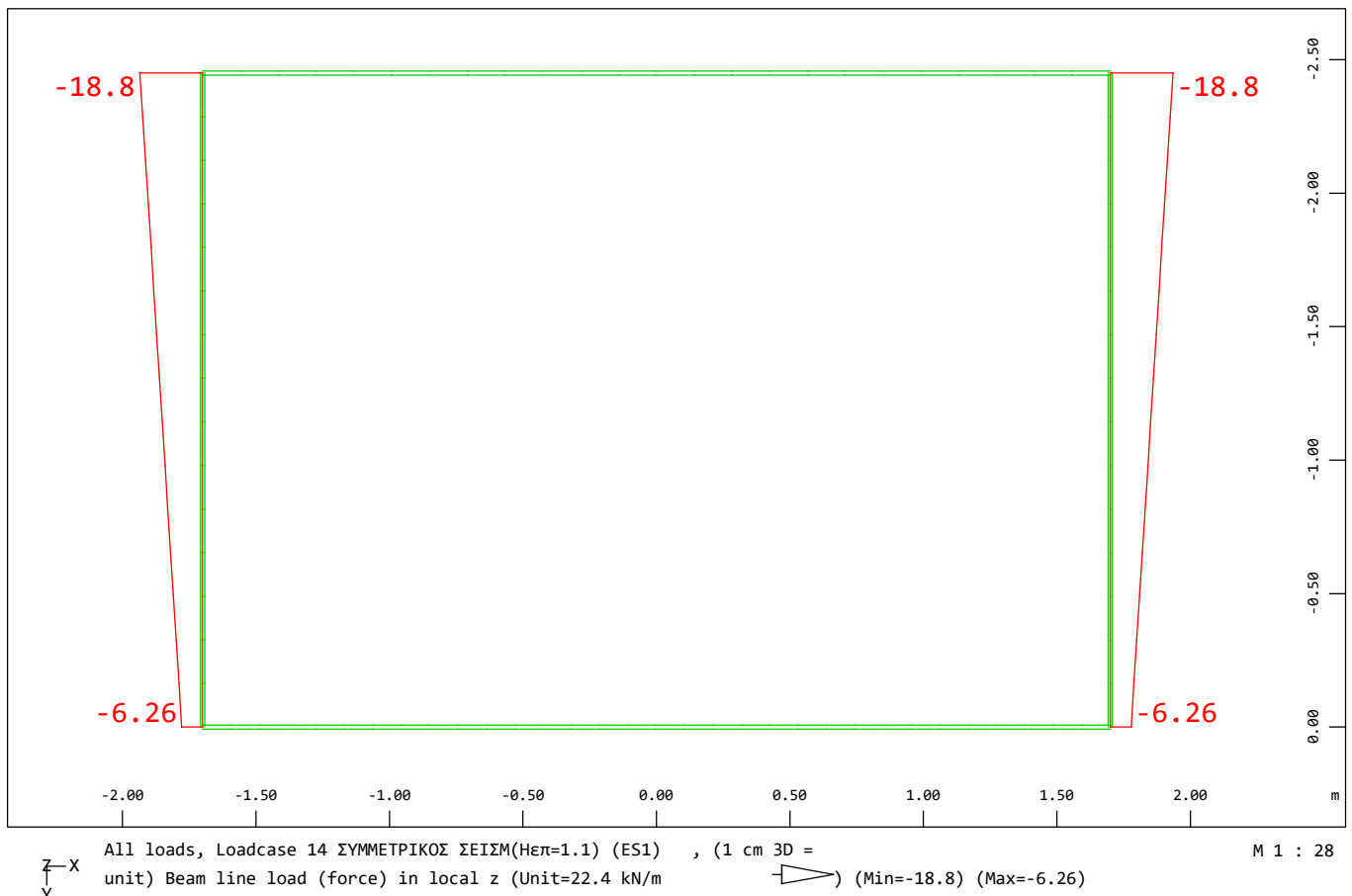
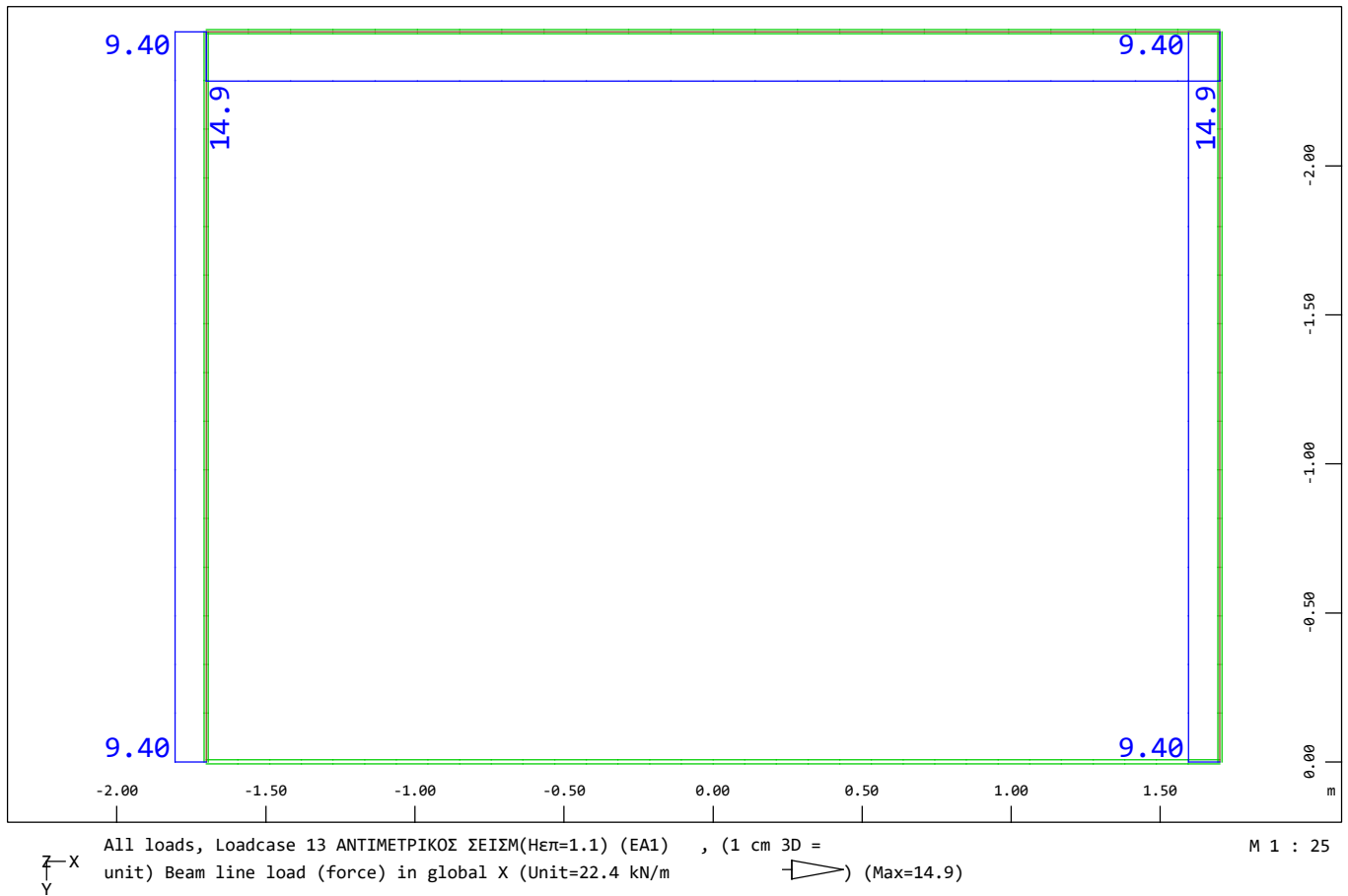


All loads, Loadcase 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-) , (1 cm 3D = unit) Beam line load (temperature increase) in local z (Unit=11.2 °C) (Min=-7.50) (Max=7.50) M 1 : 25

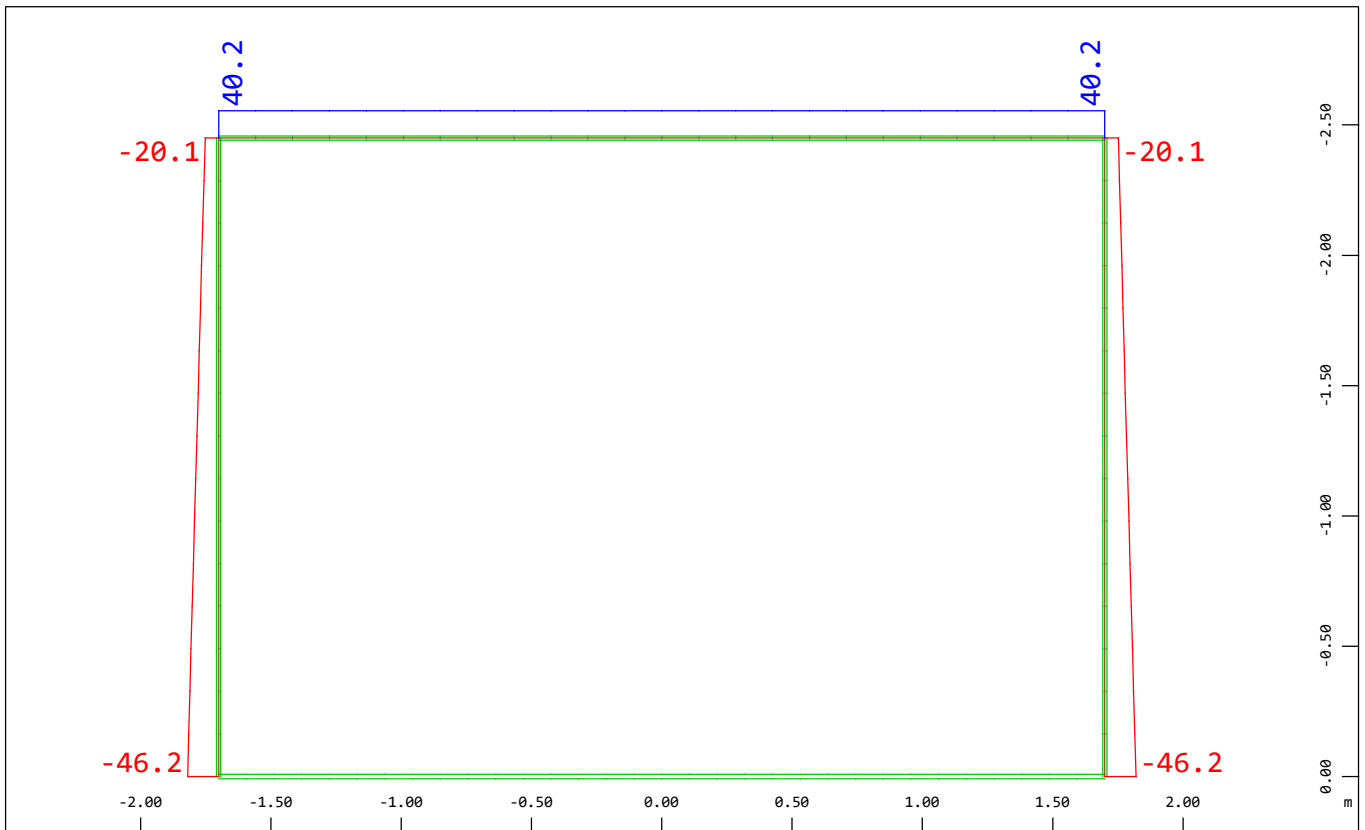
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ

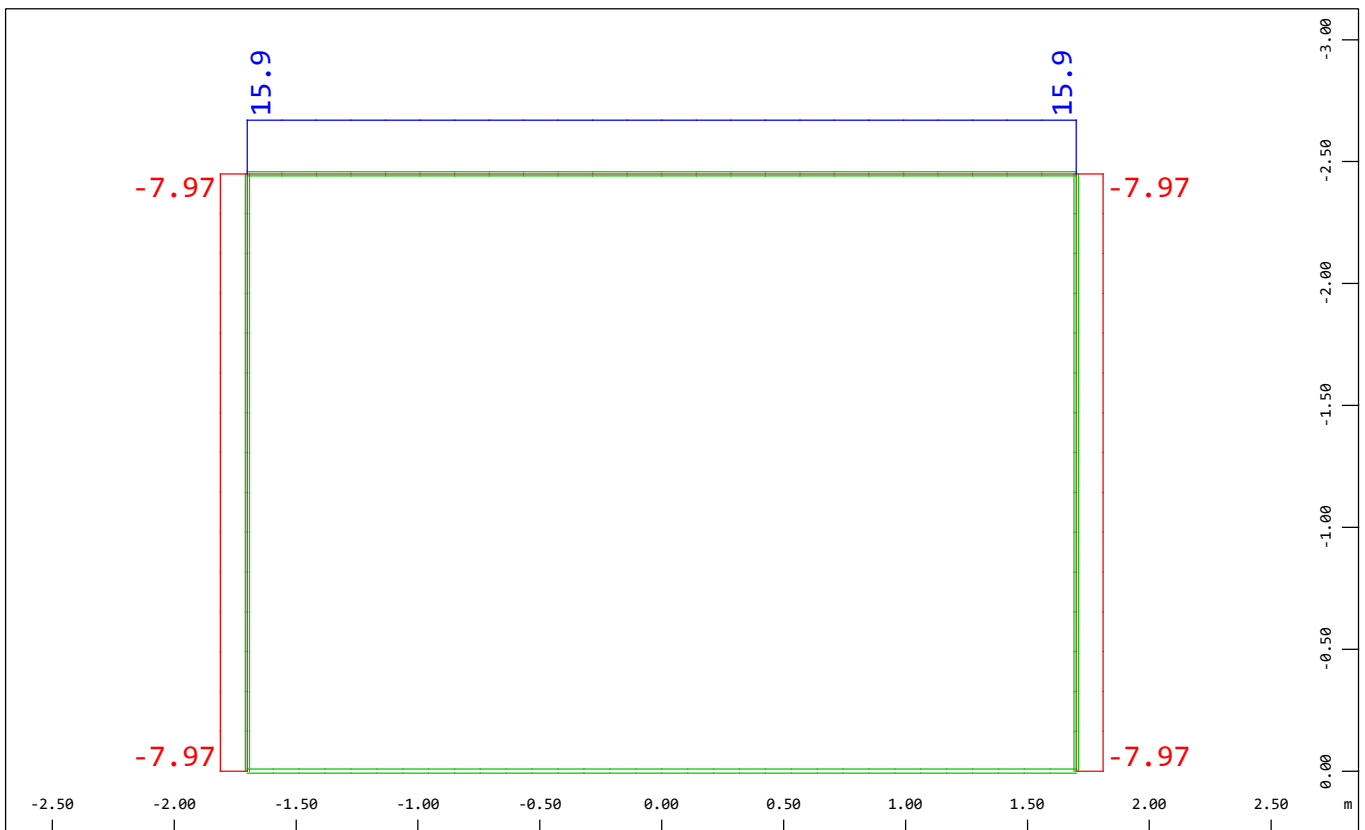


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



All loads, Loadcase 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=2.1) (R2) , (1 cm 3D = unit)
Beam line load (force) in local z (Unit=112.1 kN/m, Min=-46.2 Max=-20.1
load (force) in global Y (Unit=112.1 kN/m, Max=40.2

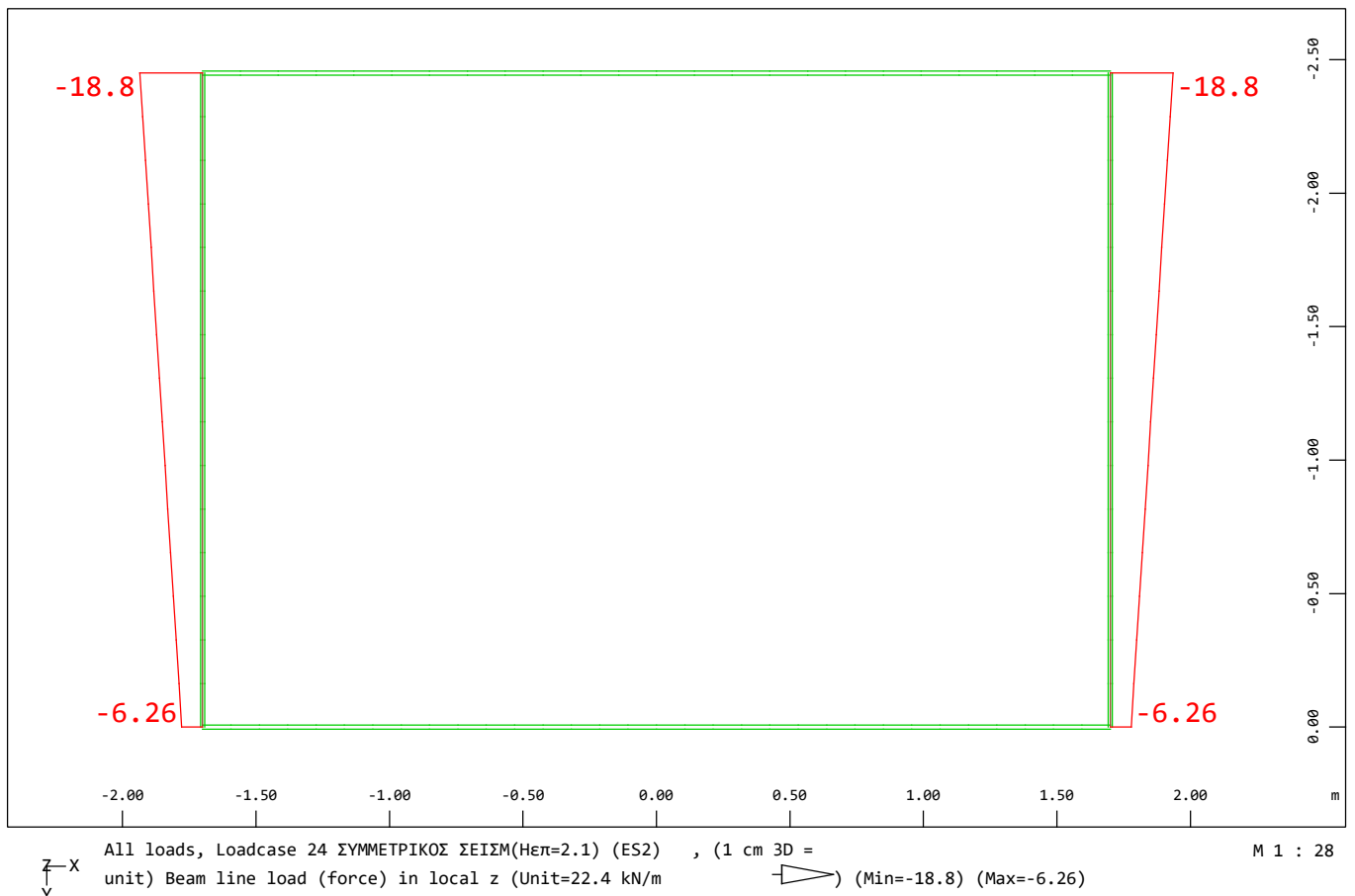
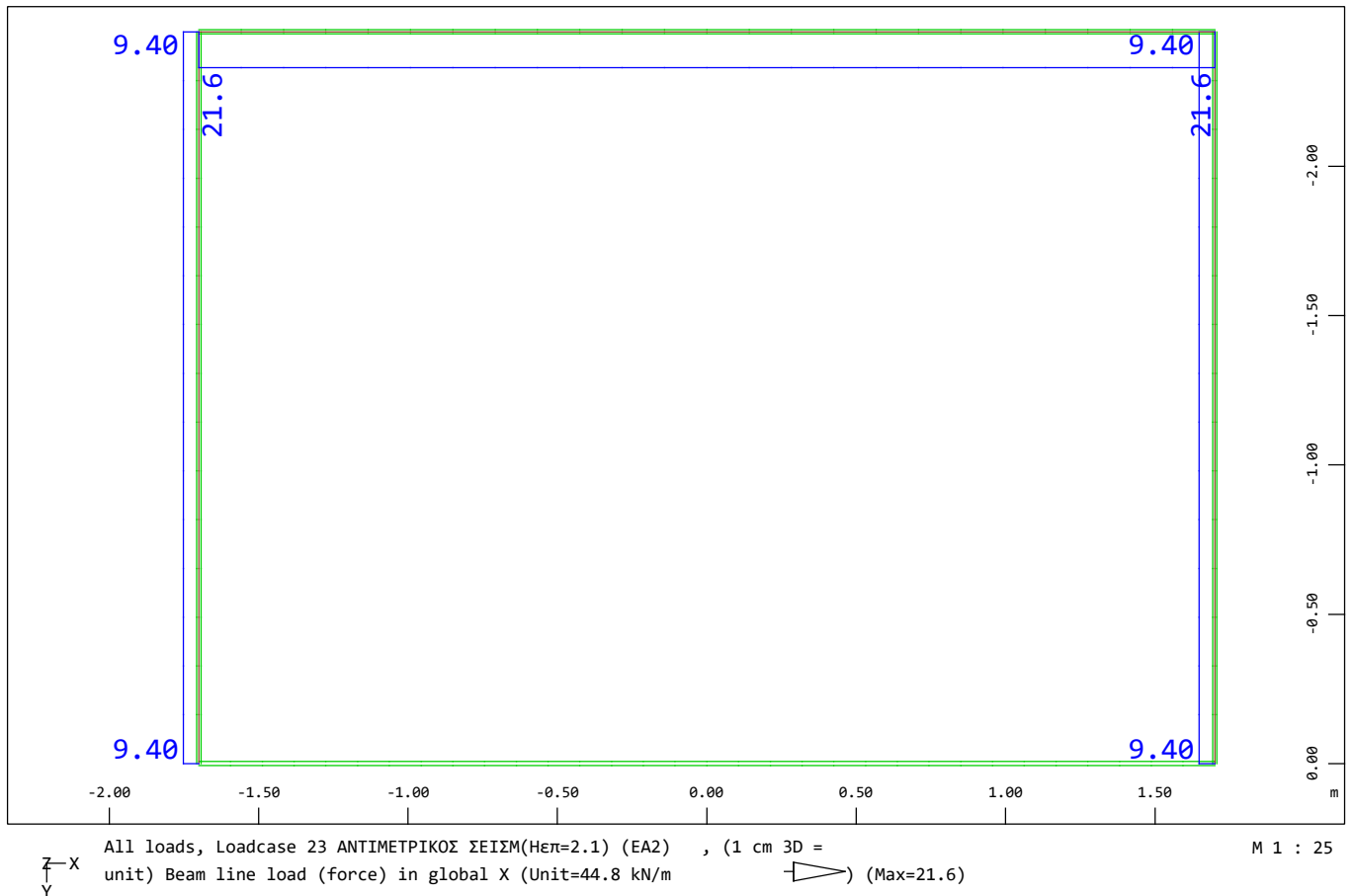
M 1 : 29



All loads, Loadcase 22 ΚΙΝΗΤΑ (Heπ.=2.1) (Q2) , (1 cm 3D = unit) Beam line load (force)
in local z (Unit=22.4 kN/m, Min=-7.97 Max=-7.97
(Unit=22.4 kN/m, Max=15.9

M 1 : 31

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΦΟΡΤΙΣΕΩΝ ΣΧΕΔΙΑΣΜΟΥ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	100	1.35G+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Load Case	101	1.35(G+R1)+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	102	G+1.35R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	103	1.35G+R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Load Case	104	1.35(G+R1)+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	105	G+1.35R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	106	1.35G+R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Load Case	107	1.35(G+R1)+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500
Load Case	108	G+1.35R1+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 109 1.35G+R1+C+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500

Load Case 110 1.35(G+R1)+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500

Load Case 111 G+1.35R1+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500

Load Case 112 1.35G+R1+C+1.2W+1.5Q1
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500

Load Case 113 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 114 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 115 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 117 G+1.35R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 118 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 119 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 120 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 121 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 122 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 123 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 124 $1.35G+R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 125 $1.35(G+R1)+C+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 126 $G+1.35R1+C+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 127 $1.35G+R1+C+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 128 $1.35(G+R1)+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 129 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 130 1.35G+R1+C+1.2W+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 131 1.35(G+R1)+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 132 G+1.35R1+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 133 1.35G+R1+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 134 1.35(G+R1)+C+1.2W+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 135 G+1.35R1+C+1.2W+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 136 1.35G+R1+C+1.2W+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 138 G+1.35R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 139 1.35G+R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 141 G+1.35R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 142 1.35G+R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 143 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 144 $G+1.35R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 145 $1.35G+R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 146 $1.35(G+R_1)+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 147 $G+1.35R_1+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 148 $1.35G+R_1+C+1.2W+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 5 with factor 1.500

Load Case 149 $1.35(G+R_1)+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 6 with factor 1.500

Load Case 150 $G+1.35R_1+C+0.9Q_1+1.5T$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 0.900
 Selected loads copied from load case 6 with factor 1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	151	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	153	G+1.35R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	154	1.35G+R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	155	1.35(G+R1)+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	156	G+1.35R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	157	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 158 1.35(G+R1)+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 159 G+1.35R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 160 1.35G+R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 161 1.35(G+R1)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 162 G+1.35R1+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 163 1.35G+R1+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 164 1.35(G+R1)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 165 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 5 with factor 1.500

Load Case 166 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 5 with factor 1.500

Load Case 167 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 168 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 169 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 6 with factor 1.500

Load Case 170 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 171 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 172 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	172	1.35G+R1+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	
Load Case	201	1.35(G+R2)+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	202	G+1.35R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	203	1.35G+R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	204	1.35(G+R2)+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	205	G+1.35R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	206	1.35G+R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	207	1.35(G+R2)+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Load Case	208	G+1.35R2+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	209	1.35G+R2+C+1.5Q2		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case	210	1.35(G+R2)+C+1.2W+1.5Q2		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case	211	G+1.35R2+C+1.2W+1.5Q2		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case	212	1.35G+R2+C+1.2W+1.5Q2		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case	213	1.35(G+R2)+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case	214	G+1.35R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case	215	1.35G+R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case	216	1.35(G+R2)+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight	DL-YY		1.350	
Selected loads	copied from load case	3 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 217 G+1.35R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 218 1.35G+R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 219 1.35(G+R2)+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 220 G+1.35R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 221 1.35G+R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 222 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 223 $G+1.35R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 224 $1.35G+R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 225 $1.35(G+R_2)+C+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 226 $G+1.35R_2+C+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 227 $1.35G+R_2+C+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 228 $1.35(G+R_2)+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 229 $G+1.35R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 230 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 231 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 232 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 233 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 234 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 235 G+1.35R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 236 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	237	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	238	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	239	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	241	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	242	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	243	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 244 $G+1.35R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 245 $1.35G+R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 246 $1.35(G+R_2)+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 247 $G+1.35R_2+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 248 $1.35G+R_2+C+1.2W+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 249 $1.35(G+R_2)+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case 250 $G+1.35R_2+C+0.9Q_2+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	251	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	253	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	254	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	255	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	256	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	257	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 258 1.35(G+R2)+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 259 G+1.35R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 260 1.35G+R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 261 1.35(G+R2)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 262 G+1.35R2+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 263 1.35G+R2+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 264 1.35(G+R2)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case **265 G+1.35R2+C+1.2W+1.5T**

Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

Load Case **266 1.35G+R2+C+1.2W+1.5T**

Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.500	

Load Case **267** **$1.35(G+R2)+C+1.2W+1.5T$**

Factor forces and moments		1.000	
Factor dead weight		DL-YY	1.350
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	6 with factor	1.500

Load Case **268 G+1.35R2+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	6 with factor	1.500

Load Case **269** **1.35G+R2+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight		DL-YY	1.350
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	6 with factor	1.500

Load Case 270 1.35(G+R2)+C+1.2W+1.5T

Factor forces and moments			1.000	
Factor dead weight			DL-YY	1.350
Selected loads	copied from load case	3 with factor		1.000
Selected loads	copied from load case	2 with factor		1.200
Selected loads	copied from load case	21 with factor		1.350
Selected loads	copied from load case	7 with factor		1.500

Load Case 271 G+1.35R2+C+1.2W+1.5T

Factor forces and moments			1.000
Factor dead weight		DL-YY	1.000
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	7 with factor	1.500

Load Case 272 1.35G+R2+C+1.2W+1.5T

Factor forces and moments		1.000
Factor dead weight	DL-YY	1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	272	1.35G+R2+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311 $G+C+R1+0.2(W+Q1)+EA1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 13 with factor 1.000

Load Case 312 $G+C+R1+0.2(W+Q1)-EA1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 13 with factor -1.000

Load Case 313 $G+C+R1+0.2(W+Q1)+ES1$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 12 with factor 0.200
 Selected loads copied from load case 14 with factor 1.000

Load Case 321 $G+C+R2+0.2(W+Q2)+EA2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 23 with factor 1.000

Load Case 322 $G+C+R2+0.2(W+Q2)-EA2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 23 with factor -1.000

Load Case 323 $G+C+R2+0.2(W+Q2)+ES2$
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 2 with factor 0.200
 Selected loads copied from load case 22 with factor 0.200
 Selected loads copied from load case 24 with factor 1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Load Case 411 G+C+R1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 412 G+C+R1+W				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 413 G+C+R1+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 414 G+C+R1+W+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 415 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case 416 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case 417 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case 418 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case	418 G+C+R1+T			
Selected loads	copied from load case	7 with factor	1.000	
Load Case	421 G+C+R2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	422 G+C+R2+W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	423 G+C+R2+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	424 G+C+R2+W+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	425 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case	426 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case	427 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case	428 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Analysis parameters
 Calculation with nonlinear material properties
 Nonlinear material properties are used for:
 Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding

Only linear material properties are used for:
 QUAD- and BRIQ-elements
 Truss-, cable-, Beam-, pile- und boundaryelements
 Beamelements

Considered Load Cases

Loadcase	Σ(Reactions)		Designation
	X[kN]	Y[kN]	
100	0.00	-169.42	1.35G+C
101	0.00	-271.31	1.35(G+R1)+C
102	0.00	-227.36	G+1.35R1+C
103	0.00	-244.90	1.35G+R1+C
104	0.00	-352.91	1.35(G+R1)+C+1.2W
105	0.00	-308.96	G+1.35R1+C+1.2W
106	0.00	-326.50	1.35G+R1+C+1.2W
107	0.00	-420.00	1.35(G+R1)+C+1.5Q1
108	0.00	-376.05	G+1.35R1+C+1.5Q1
109	0.00	-393.58	1.35G+R1+C+1.5Q1
110	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1
111	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1
112	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1
113	0.00	-420.01	1.35(G+R1)+C+1.5Q1+0.75T
114	0.00	-376.08	G+1.35R1+C+1.5Q1+0.75T
115	0.00	-393.59	1.35G+R1+C+1.5Q1+0.75T
116	0.00	-501.61	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	0.00	-457.68	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	0.00	-475.19	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	0.00	-420.19	1.35(G+R1)+C+1.5Q1+0.75T
120	0.00	-376.06	G+1.35R1+C+1.5Q1+0.75T
121	0.00	-393.77	1.35G+R1+C+1.5Q1+0.75T
122	0.00	-501.79	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	0.00	-457.66	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	0.00	-475.37	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	0.00	-420.00	1.35(G+R1)+C+1.5Q1+0.75T
126	0.00	-376.05	G+1.35R1+C+1.5Q1+0.75T
127	0.00	-393.58	1.35G+R1+C+1.5Q1+0.75T
128	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	0.00	-420.00	1.35(G+R1)+C+1.5Q1+0.75T
132	0.00	-376.05	G+1.35R1+C+1.5Q1+0.75T
133	0.00	-393.58	1.35G+R1+C+1.5Q1+0.75T
134	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
138	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
139	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
140	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	0.00	-360.47	1.35(G+R1)+C+0.9Q1+1.5T
144	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

145	0.00	-334.05	1.35G+R1+C+0.9Q1+1.5T
146	0.00	-442.07	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	0.00	-415.65	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
150	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
151	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
152	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
156	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
157	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
158	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
162	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
163	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
164	0.00	-352.85	1.35(G+R1)+C+1.2W+1.5T
165	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
166	0.00	-326.44	1.35G+R1+C+1.2W+1.5T
167	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
168	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
169	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
170	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
171	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
172	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
201	0.00	-353.93	1.35(G+R2)+C
202	0.00	-309.98	G+1.35R2+C
203	0.00	-306.10	1.35G+R2+C
204	0.00	-435.53	1.35(G+R2)+C+1.2W
205	0.00	-391.58	G+1.35R2+C+1.2W
206	0.00	-387.70	1.35G+R2+C+1.2W
207	0.00	-435.20	1.35(G+R2)+C+1.5Q2
208	0.00	-391.25	G+1.35R2+C+1.5Q2
209	0.00	-387.36	1.35G+R2+C+1.5Q2
210	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2
211	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2
212	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2
213	0.00	-435.21	1.35(G+R2)+C+1.5Q2+0.75T
214	0.00	-391.28	G+1.35R2+C+1.5Q2+0.75T
215	0.00	-387.37	1.35G+R2+C+1.5Q2+0.75T
216	0.00	-516.81	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	0.00	-472.88	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	0.00	-468.97	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	0.00	-435.38	1.35(G+R2)+C+1.5Q2+0.75T
220	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
221	0.00	-387.54	1.35G+R2+C+1.5Q2+0.75T
222	0.00	-516.98	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	0.00	-469.14	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	0.00	-435.20	1.35(G+R2)+C+1.5Q2+0.75T
226	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
227	0.00	-387.36	1.35G+R2+C+1.5Q2+0.75T
228	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	0.00	-435.20	1.35(G+R2)+C+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

232	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
233	0.00	-387.36	1.35G+R2+C+1.5Q2+0.75T
234	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
236	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
238	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
239	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
240	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	0.00	-402.63	1.35(G+R2)+C+0.9Q2+1.5T
244	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
245	0.00	-354.79	1.35G+R2+C+0.9Q2+1.5T
246	0.00	-484.23	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	0.00	-436.39	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
250	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
251	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
252	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
256	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
257	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
258	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
262	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
263	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
264	0.00	-435.47	1.35(G+R2)+C+1.2W+1.5T
265	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
266	0.00	-387.64	1.35G+R2+C+1.2W+1.5T
267	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
268	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
269	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
270	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
271	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
272	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
311	-96.52	-234.37	G+C+R1+0.2(W+Q1)+EA1
312	96.52	-234.37	G+C+R1+0.2(W+Q1)-EA1
313	0.00	-234.37	G+C+R1+0.2(W+Q1)+ES1
321	-119.46	-286.58	G+C+R2+0.2(W+Q2)+EA2
322	119.46	-286.58	G+C+R2+0.2(W+Q2)-EA2
323	0.00	-286.58	G+C+R2+0.2(W+Q2)+ES2
400	-0.00	-125.47	G+C
411	0.00	-200.95	G+C+R1
412	0.00	-268.95	G+C+R1+W
413	0.00	-300.07	G+C+R1+Q1
414	0.00	-368.07	G+C+R1+W+Q1
415	0.00	-200.98	G+C+R1+T
416	0.00	-200.95	G+C+R1+T
417	0.00	-200.95	G+C+R1+T
418	0.00	-200.95	G+C+R1+T
421	0.00	-262.15	G+C+R2
422	0.00	-330.15	G+C+R2+W
423	0.00	-316.32	G+C+R2+Q2

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

424	0.00	-384.32	G+C+R2+W+Q2
425	0.00	-262.18	G+C+R2+T
426	0.00	-262.15	G+C+R2+T
427	0.00	-262.15	G+C+R2+T
428	0.00	-262.15	G+C+R2+T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

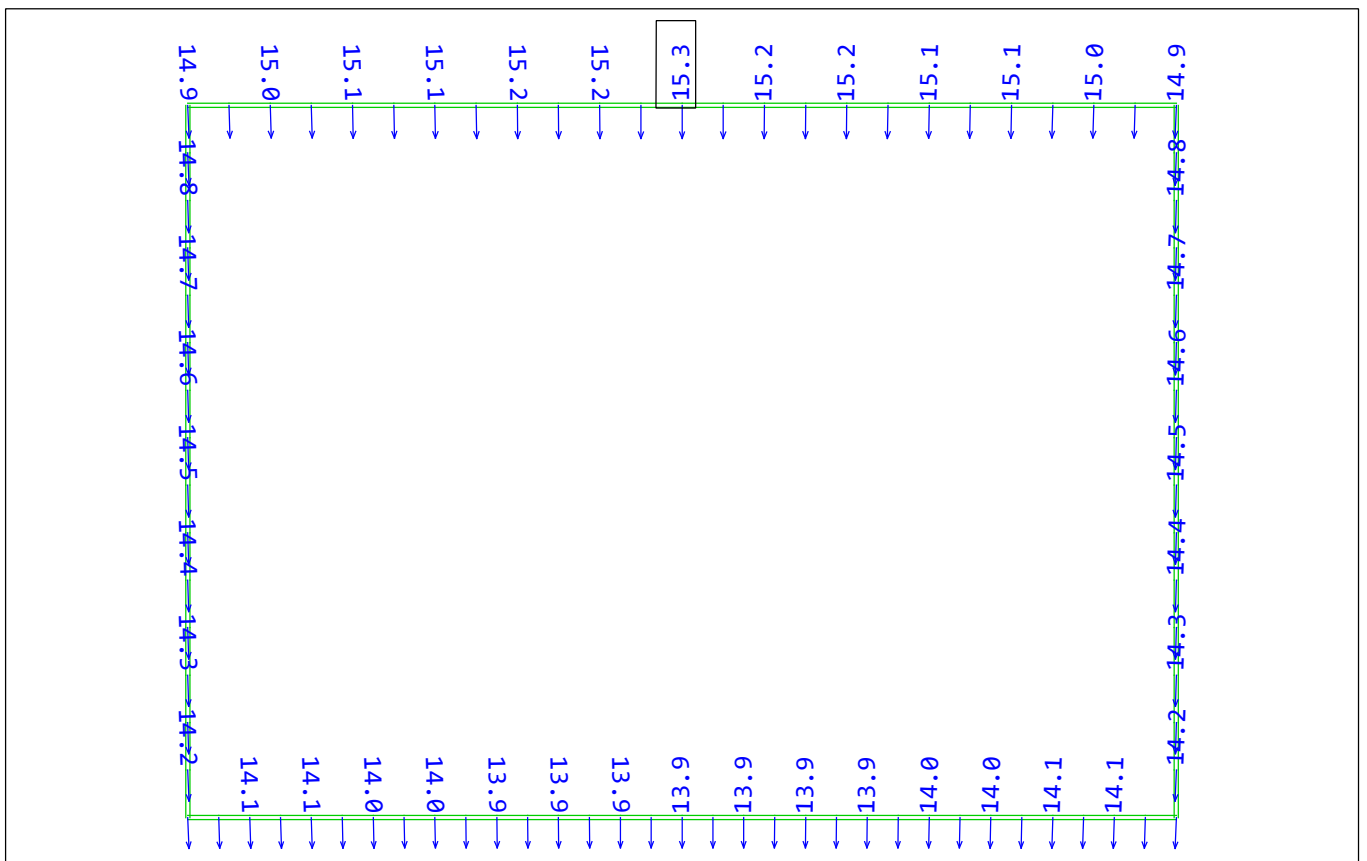
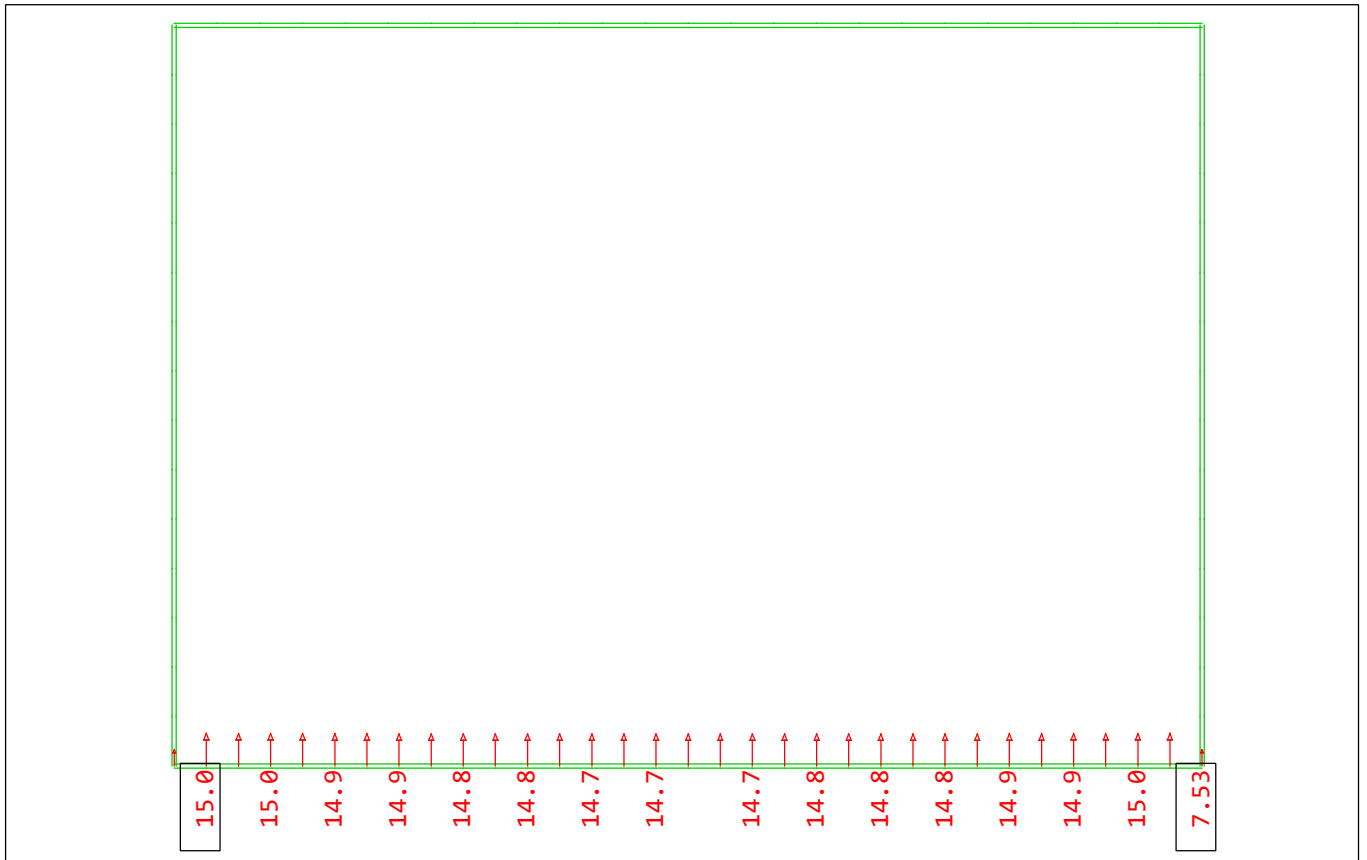
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ΑΠΟΤΕΛΕΣΜΑΤΑ ΜΗ-ΓΡΑΜΜΙΚΗΣ ΕΠΙΛΥΣΗΣ ΣΥΝΔΥΑΣΜΩΝ

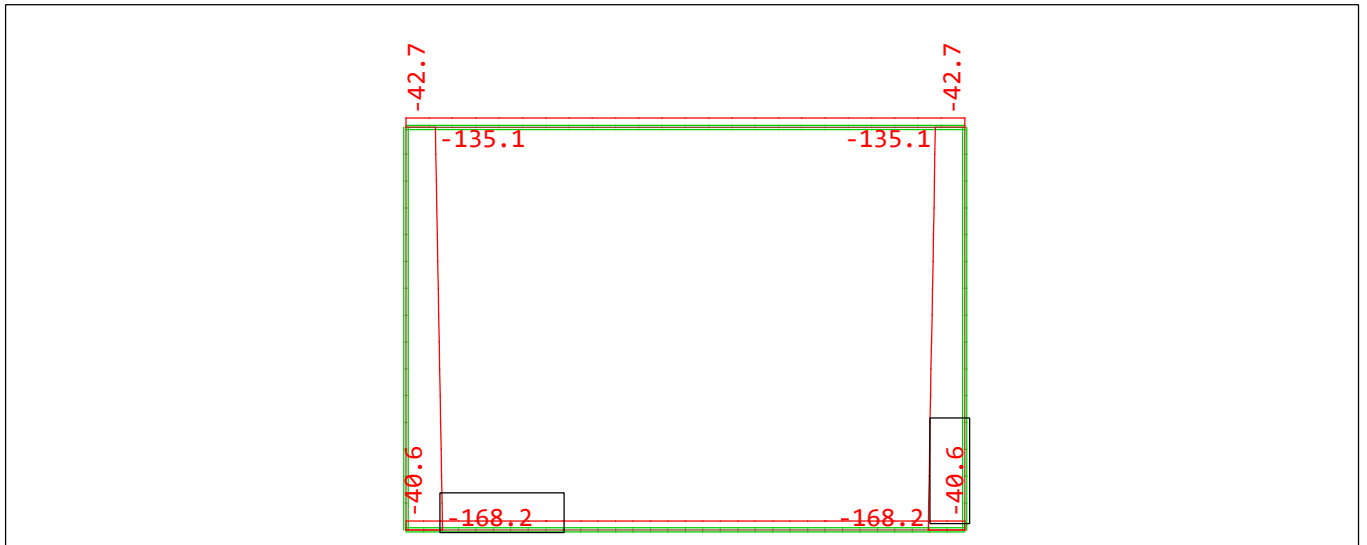
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

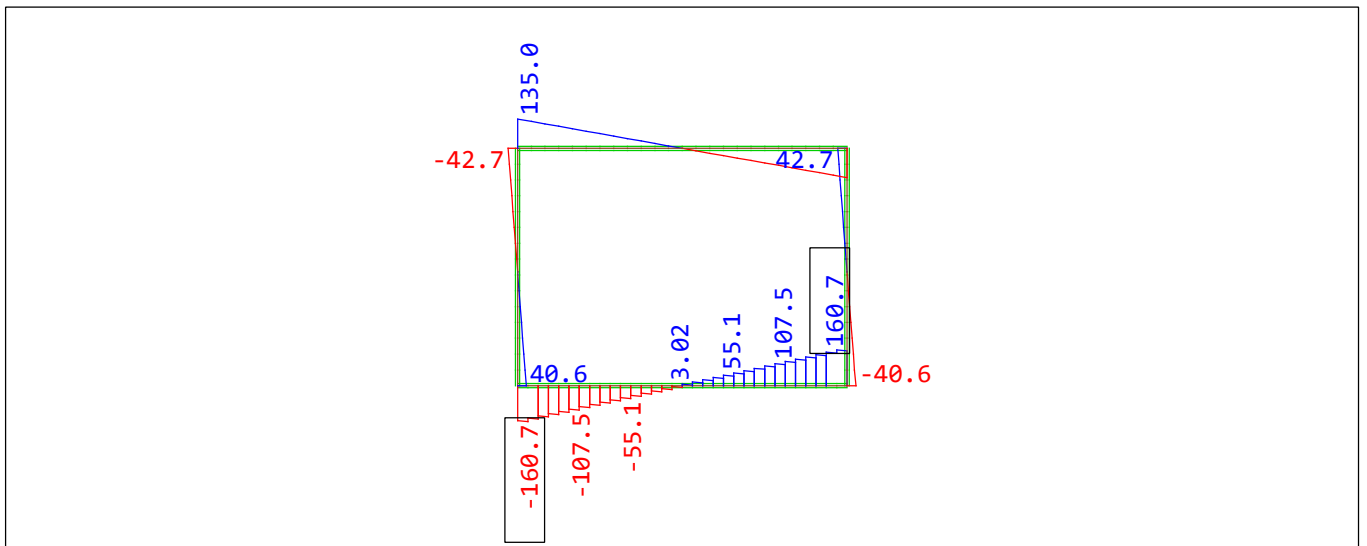
ΣΥΝΔΥΑΣΜΟΣ: 124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



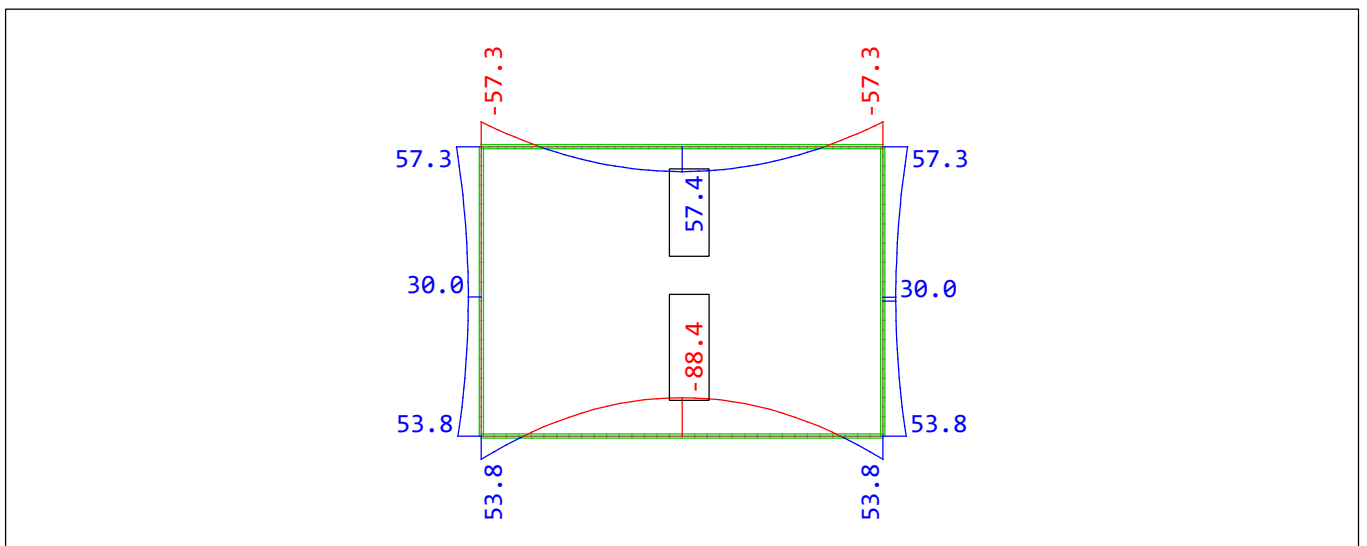
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kN (Min=-168.2) (Max=-40.2)



Beam Elements , Shear force Vz, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kN (Min=-165.0) (Max=165.0)

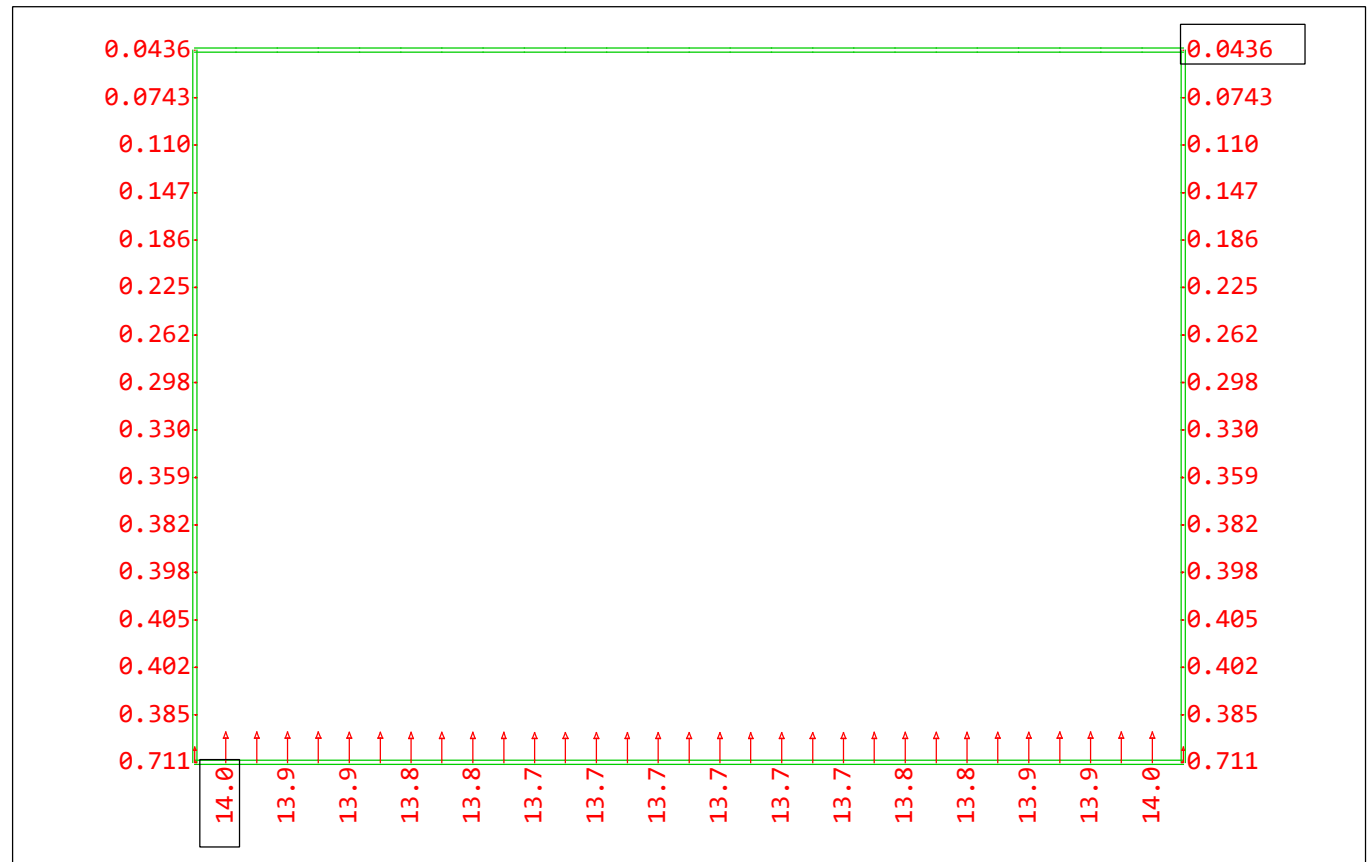


Beam Elements , Bending moment My, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
174.2 kNm (Min=-88.4) (Max=57.4)

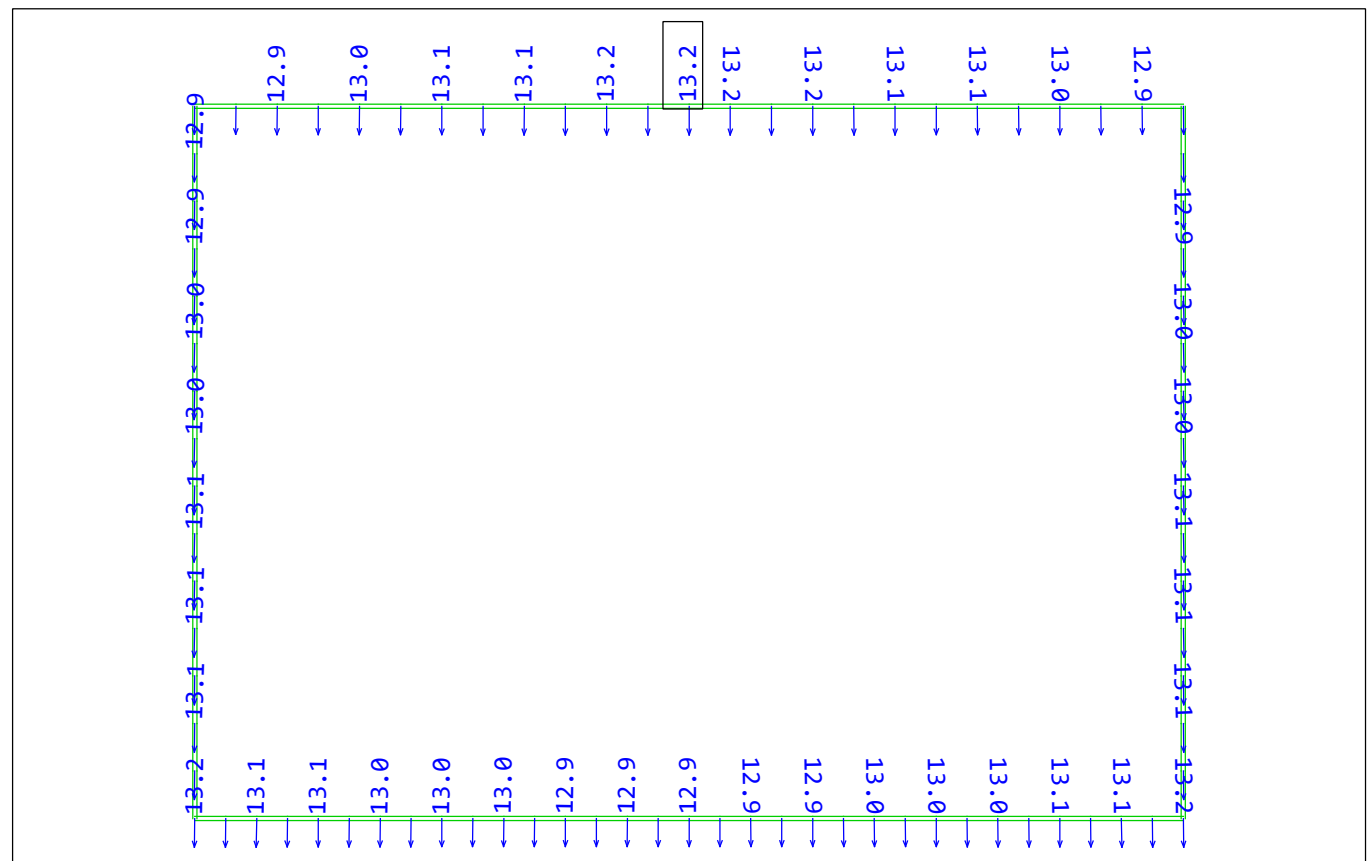
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΣ: 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

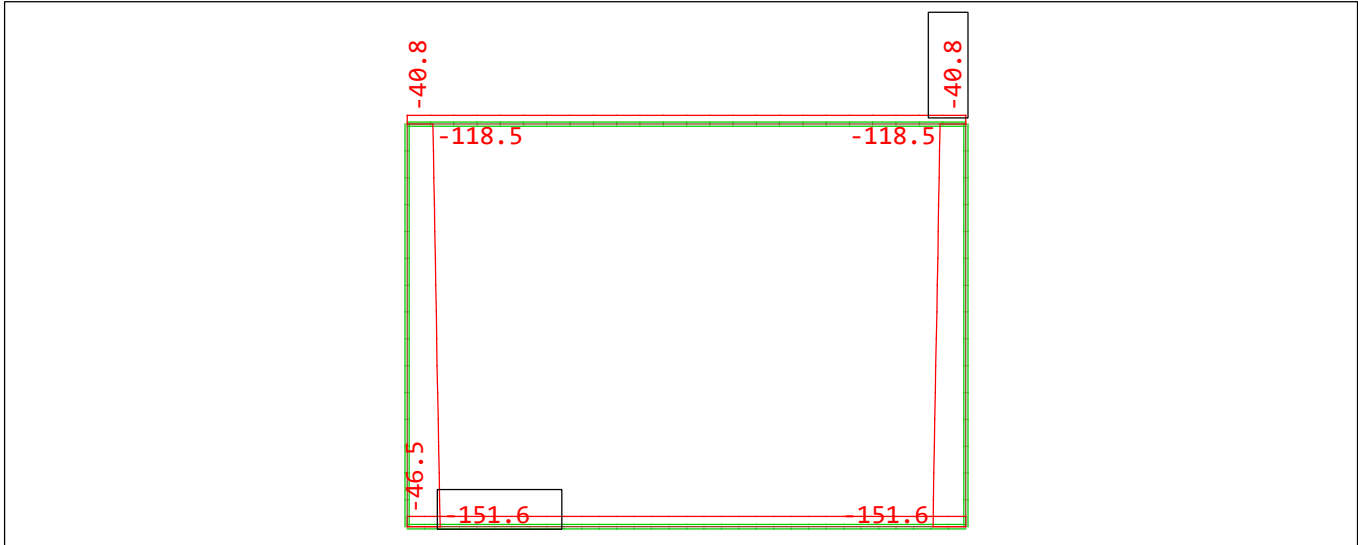


Spring force, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 34.8 kN
(Min=-14.0) (Max=-0.0436) (total: -451.6)

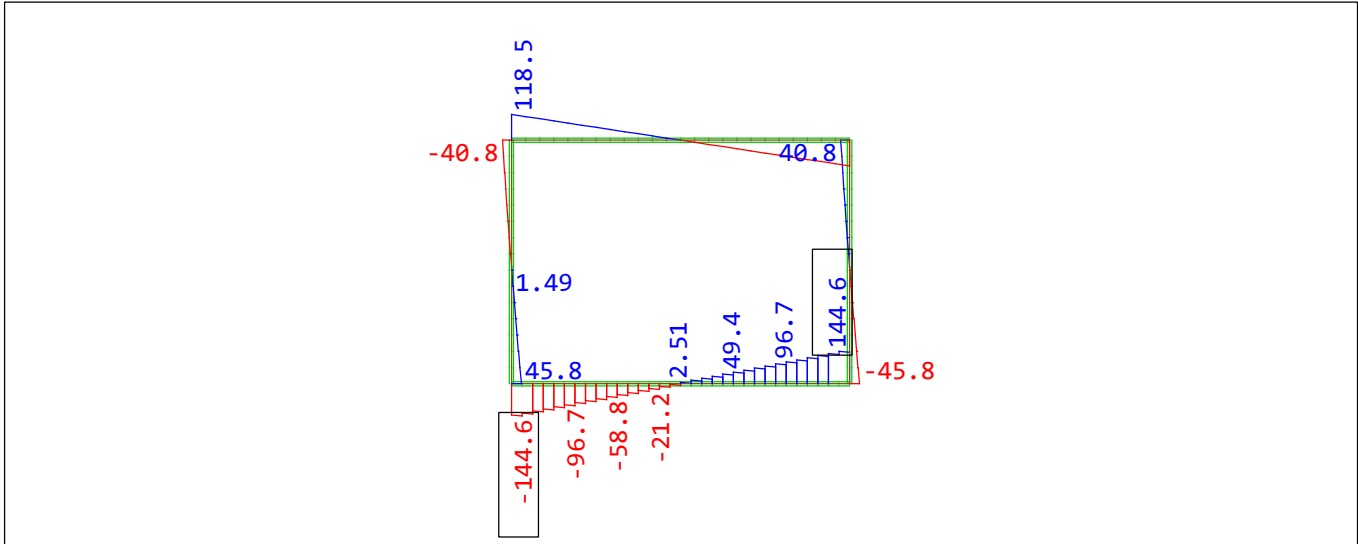


Nodal displacement vector, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 34.8 mm
(Max=13.2)

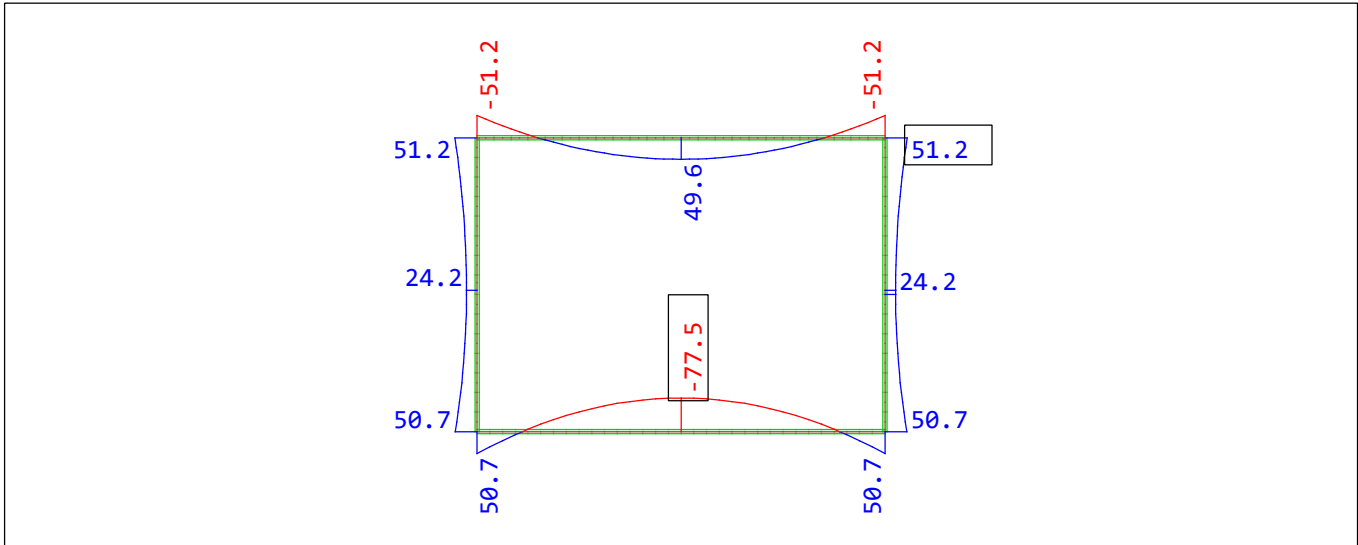
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΣ:140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force N_x , nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 348.4 kN (Min=-151.6) (Max=-40.8)

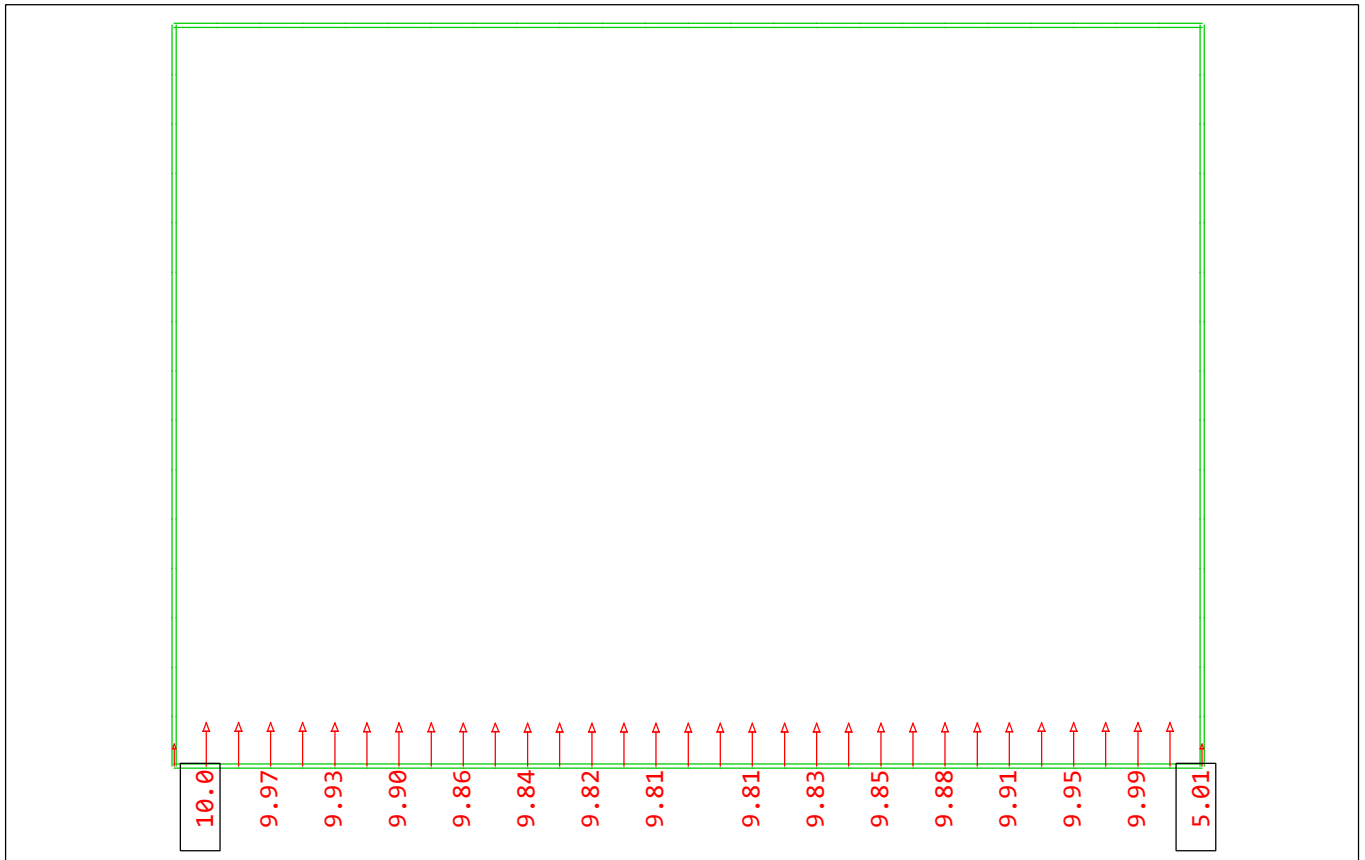


Beam Elements , Shear force V_z , nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 348.4 kN (Min=-148.9) (Max=148.9)

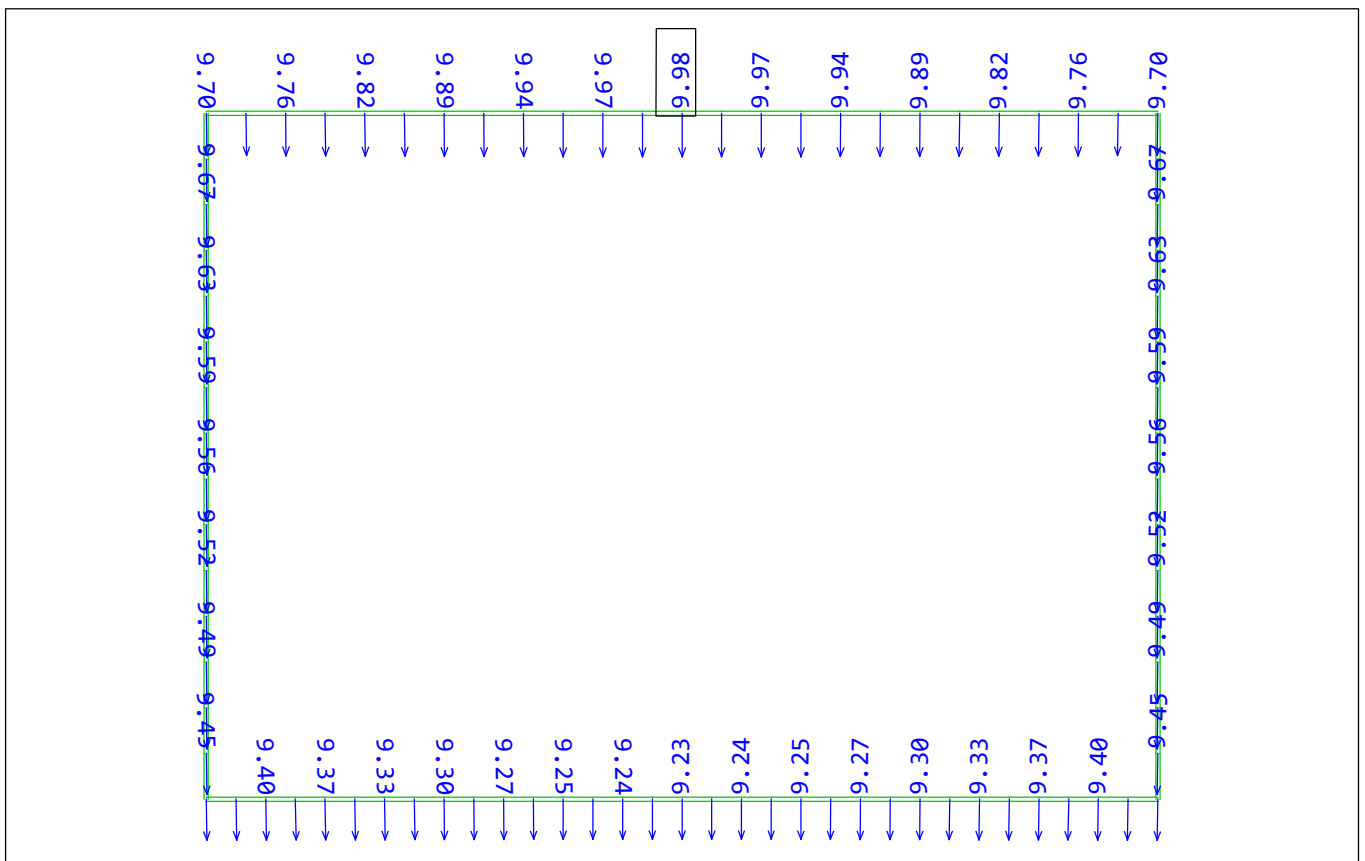


Beam Elements , Bending moment M_y , nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 174.2 kNm (Min=-77.5) (Max=51.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 150 G+1.35R1+C+0.9Q1+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

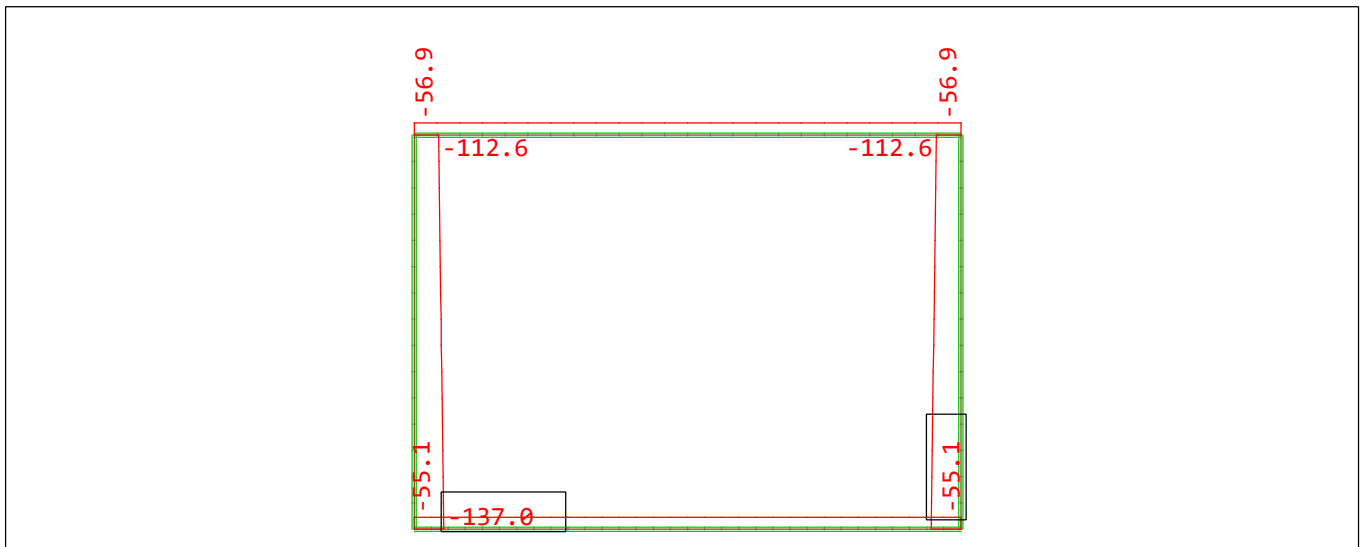


Spring force, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 17.4 kN
(Max=0) (total: -316.6) (Min=-10.0)

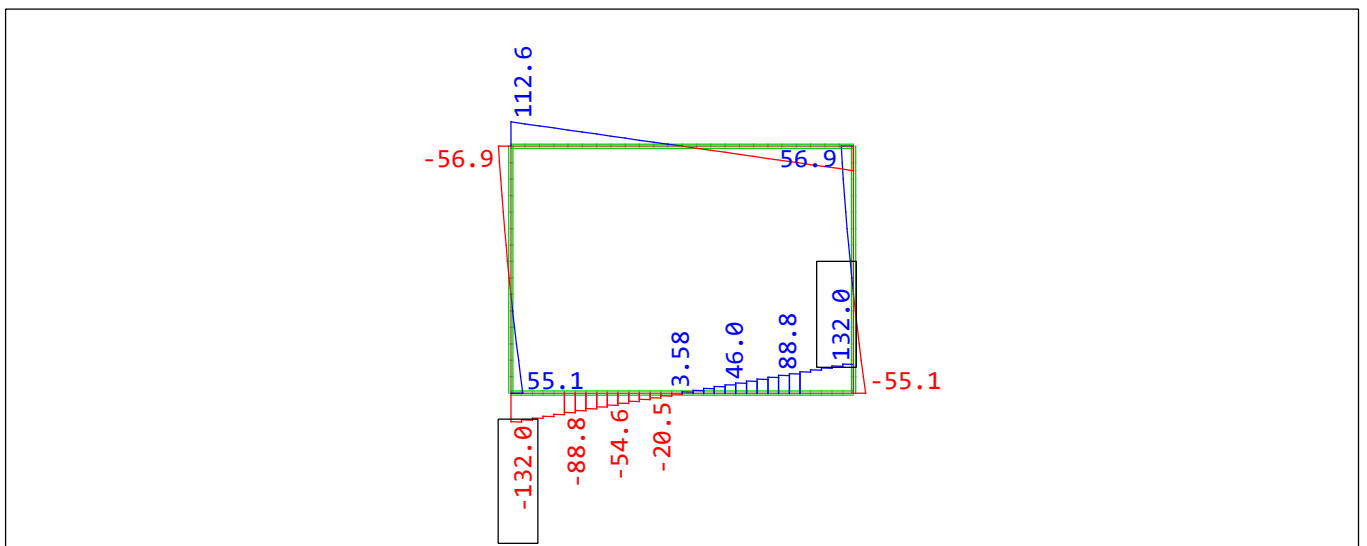


Nodal displacement vector, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 17.4 mm
(Max=9.98)

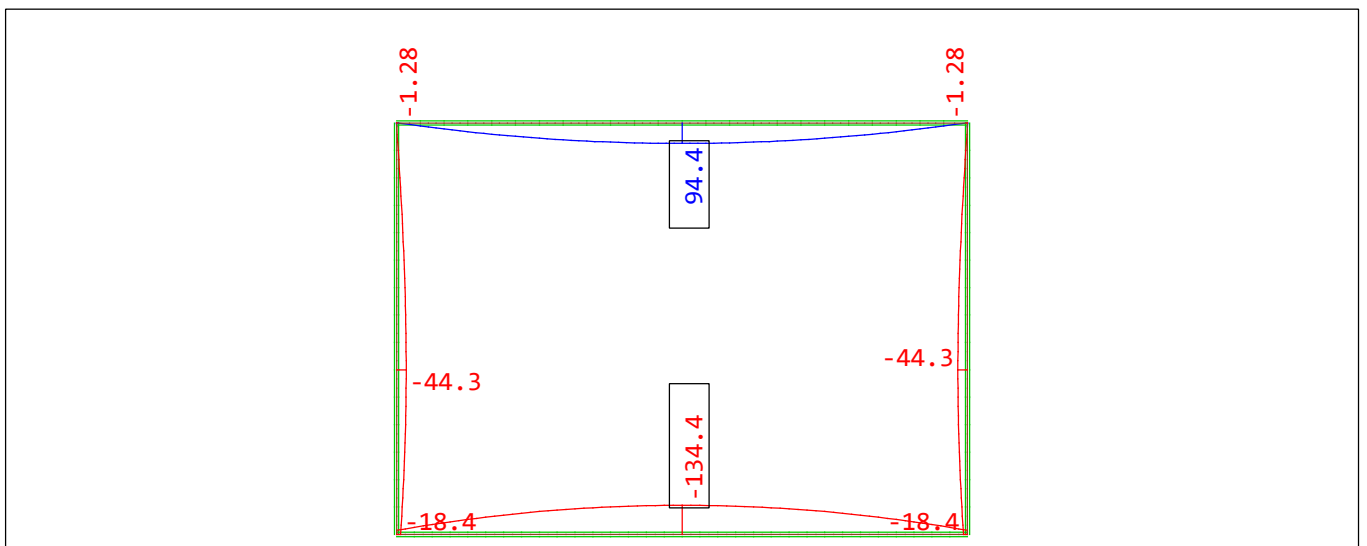
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:150 G+1.35R1+C+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-137.0) (Max=-55.0)

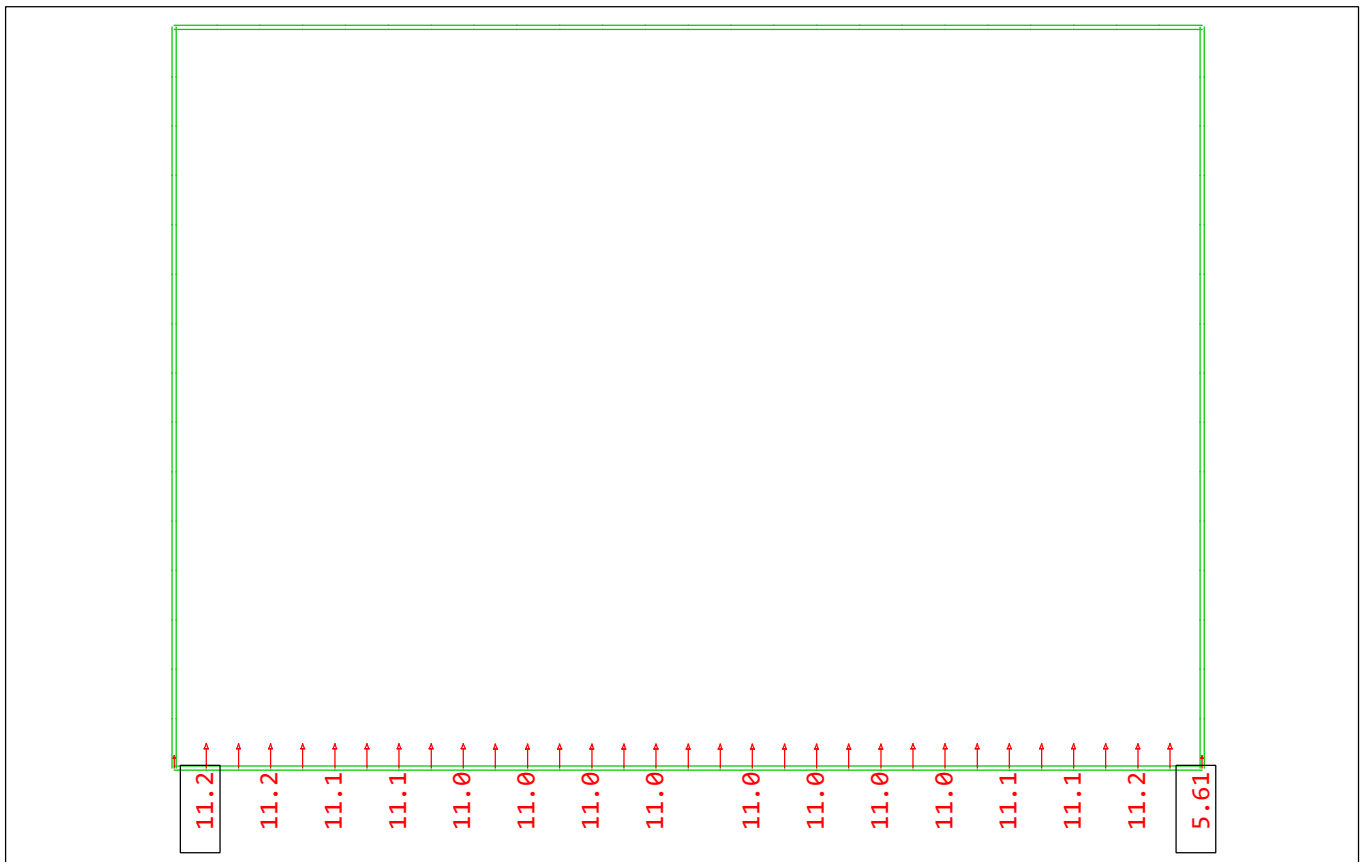


Beam Elements , Shear force Vz, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-133.4) (Max=133.4)

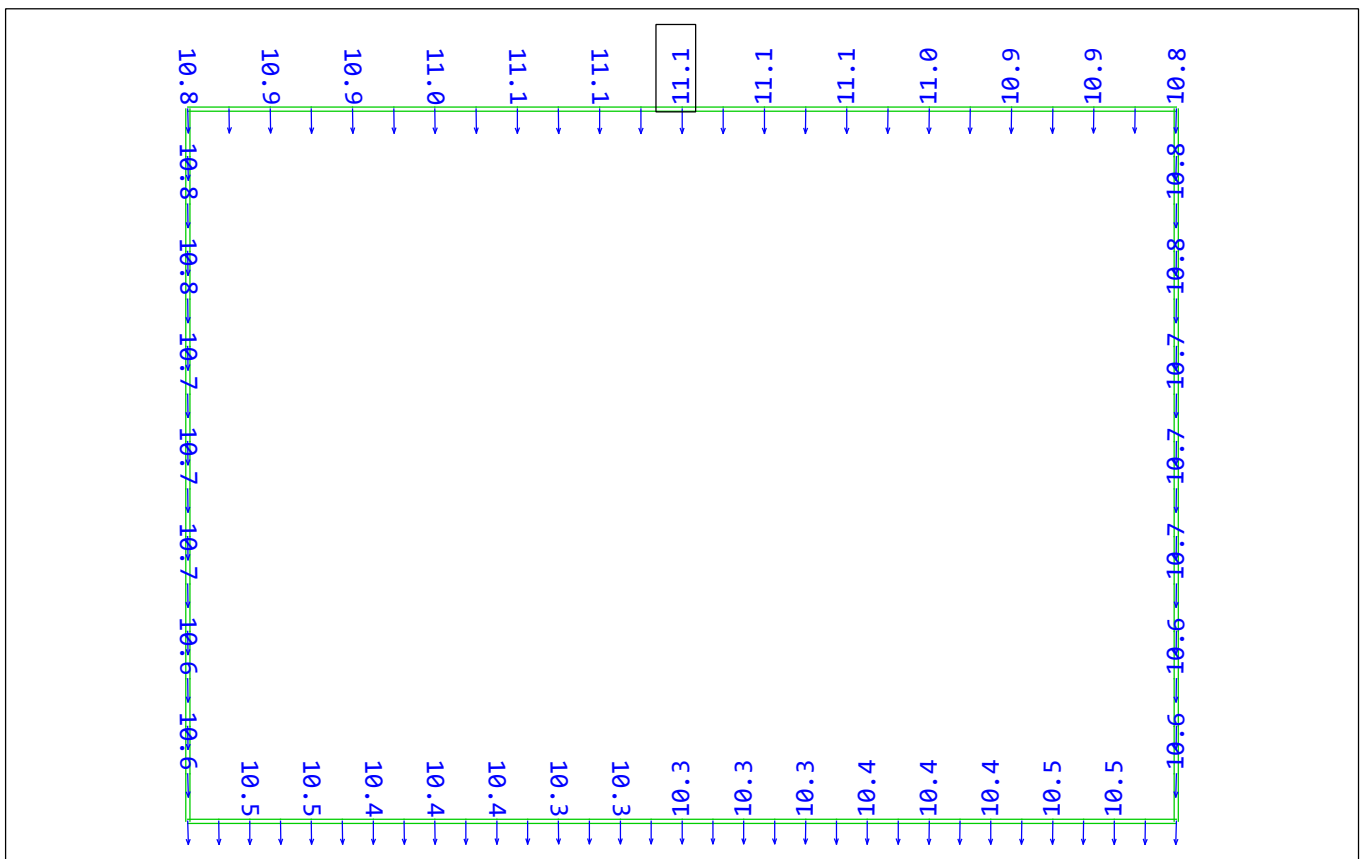


Beam Elements , Bending moment My, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4
kNm (Min=-134.4) (Max=94.4)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

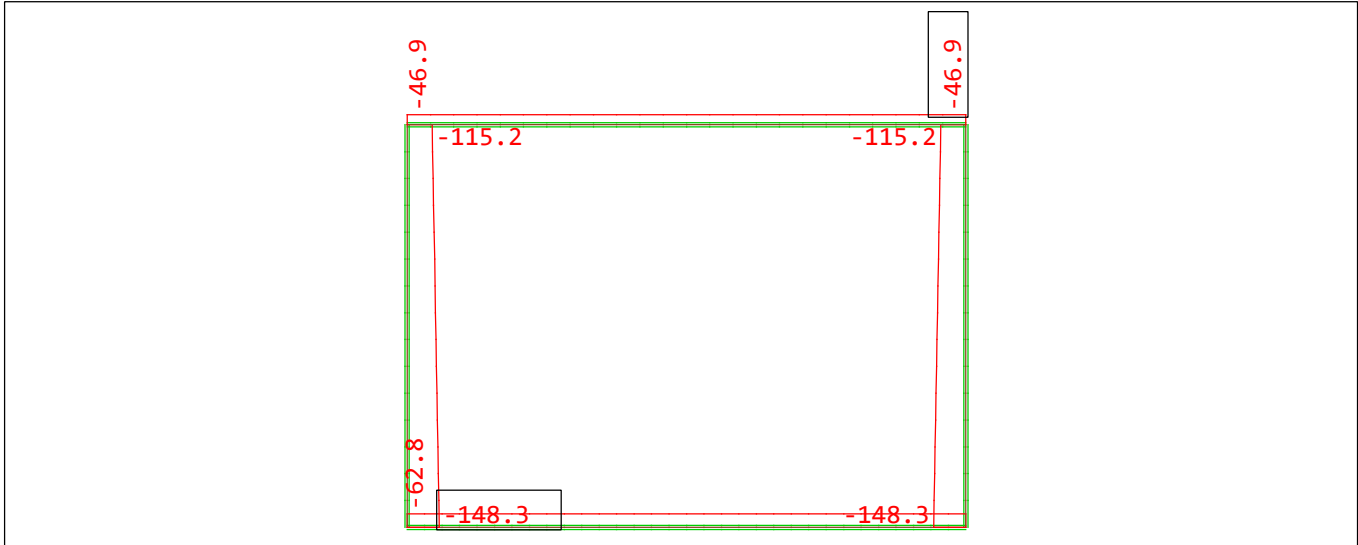


Spring force, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 34.8 kN
(total: -353.9) (Min=-11.2) (Max=0)

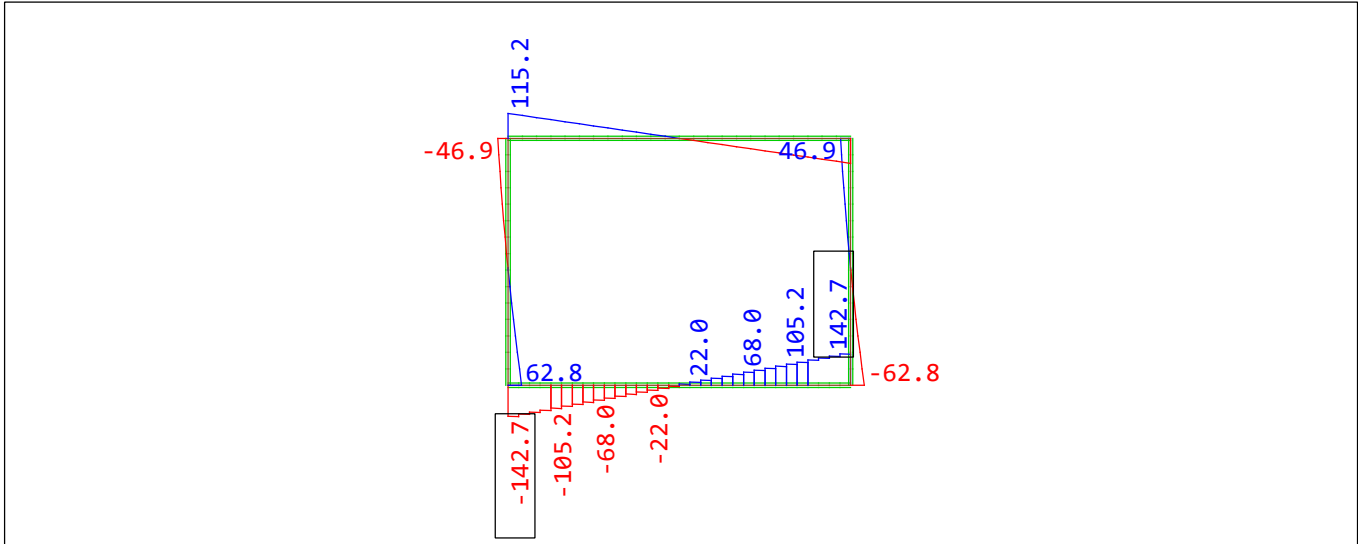


Nodal displacement vector, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 34.8 mm
(Max=11.1)

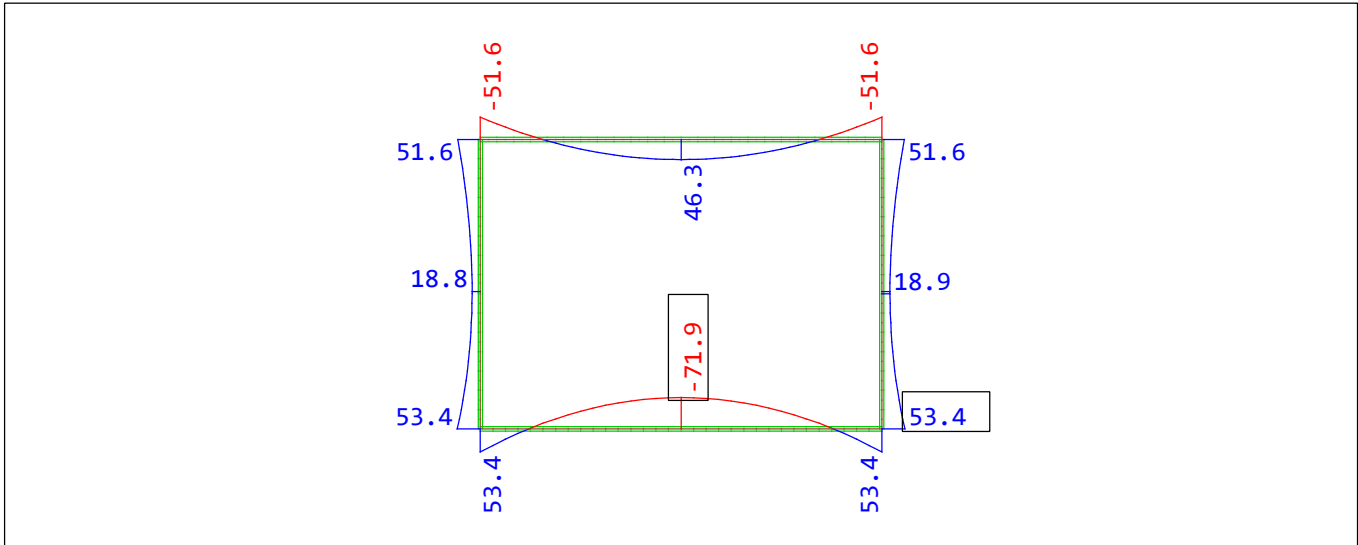
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
 (Min=-148.3) (Max=-46.9)

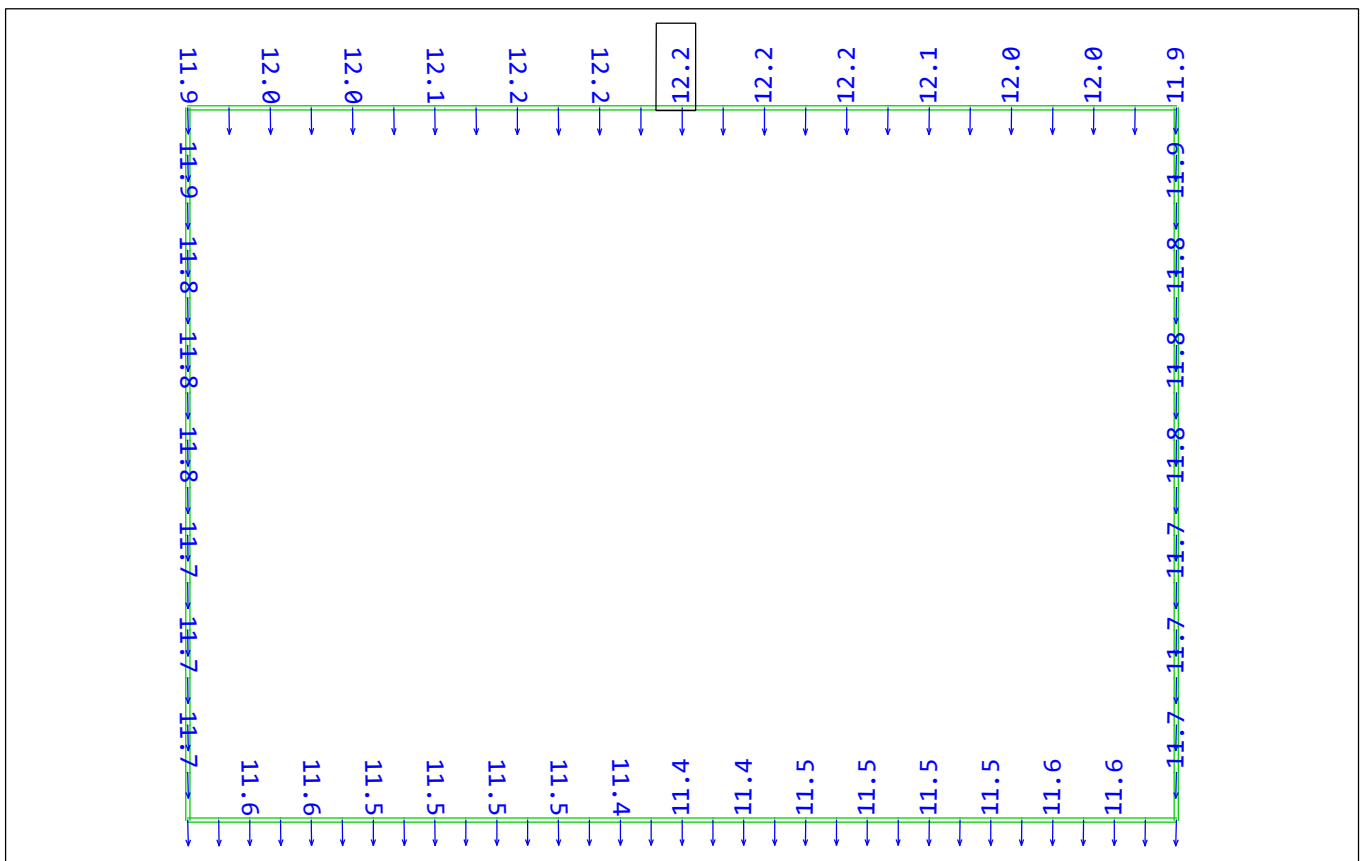
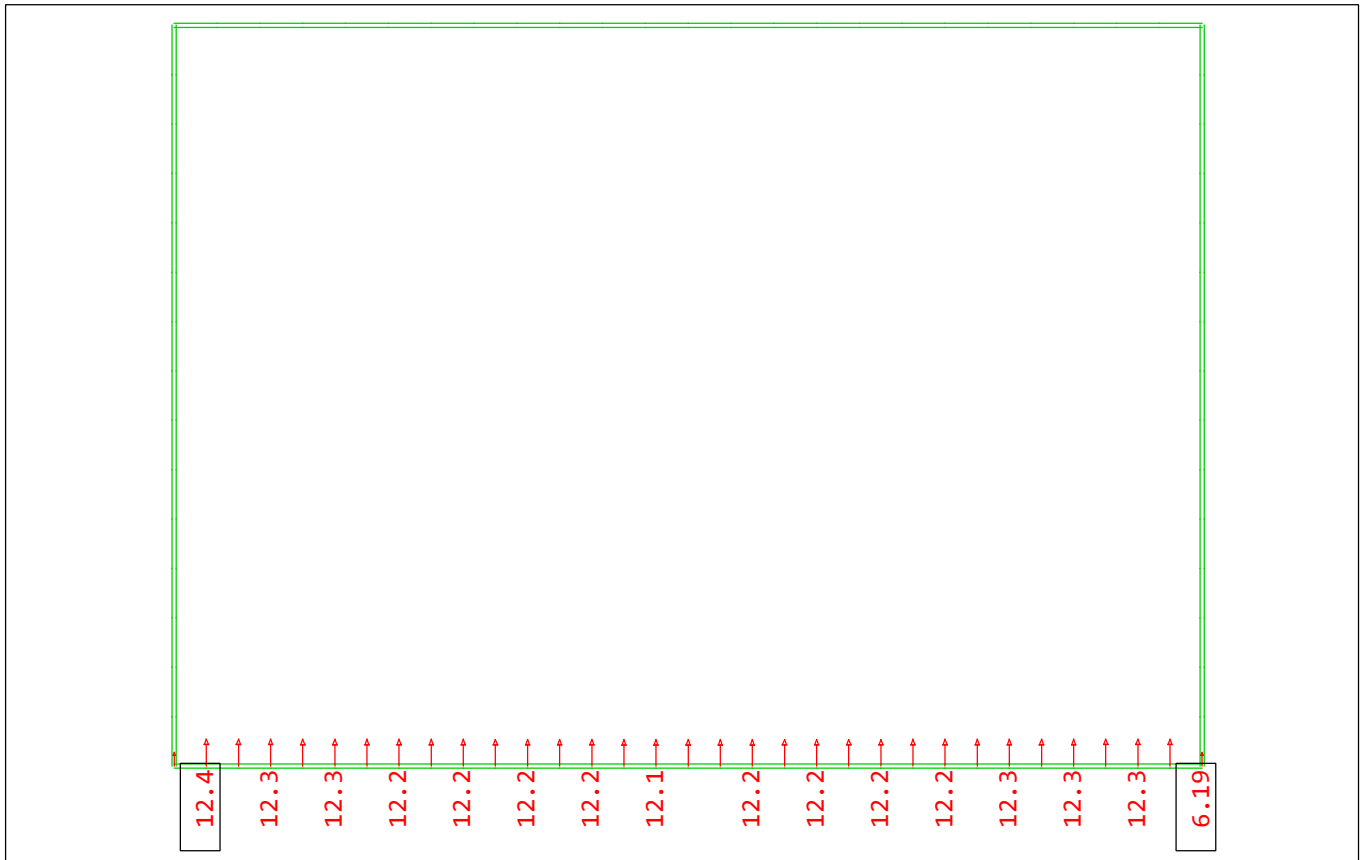


Beam Elements , Shear force Vz, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
 (Min=-144.5) (Max=144.5)

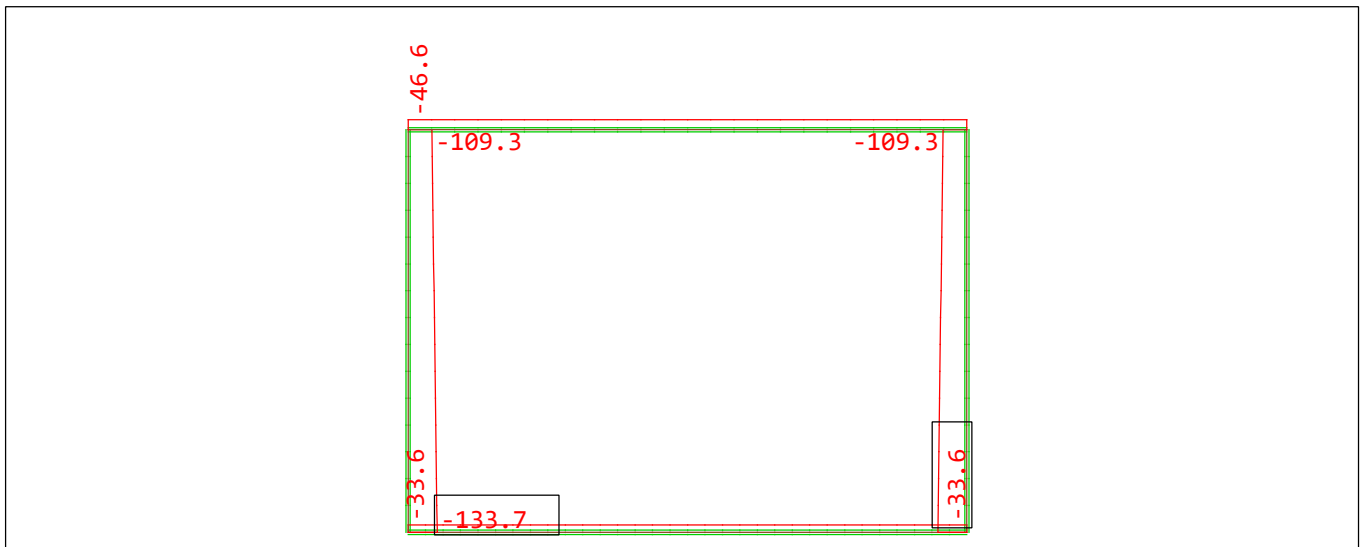


Beam Elements , Bending moment My, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 174.2 kNm
 (Min=-71.9) (Max=53.4)

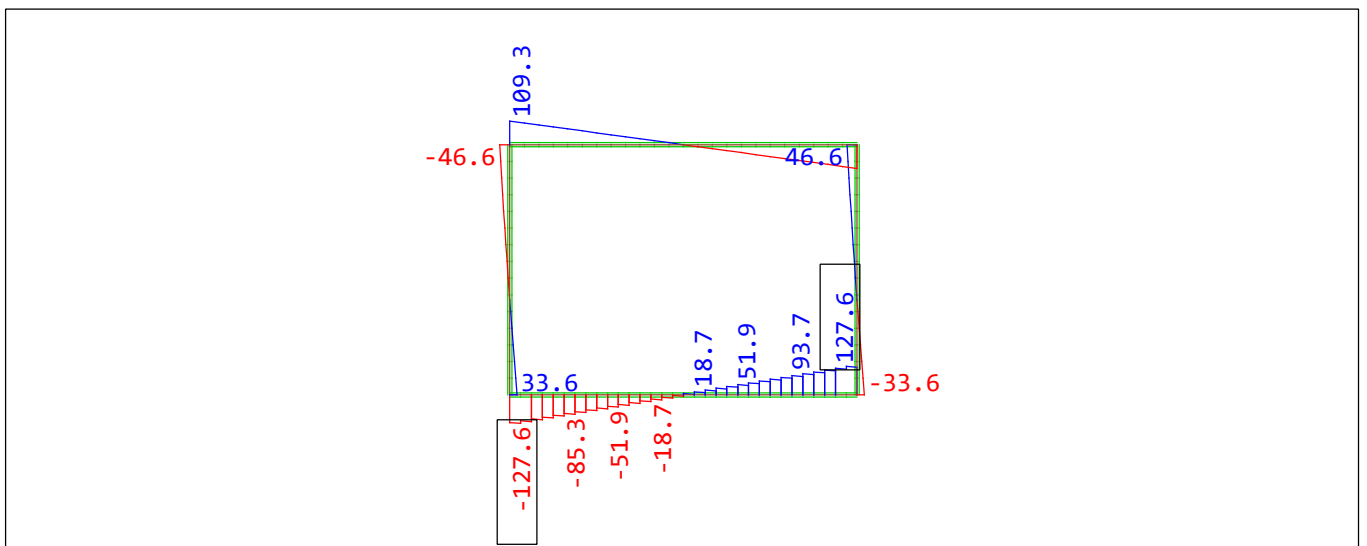
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



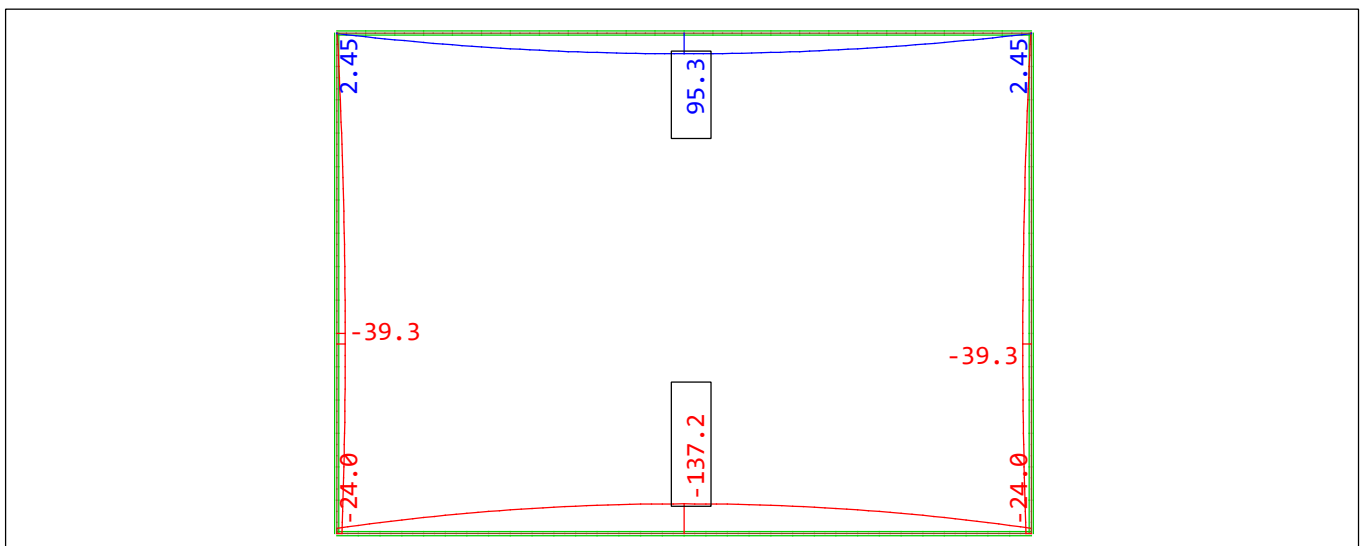
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-133.7) (Max=-33.5)

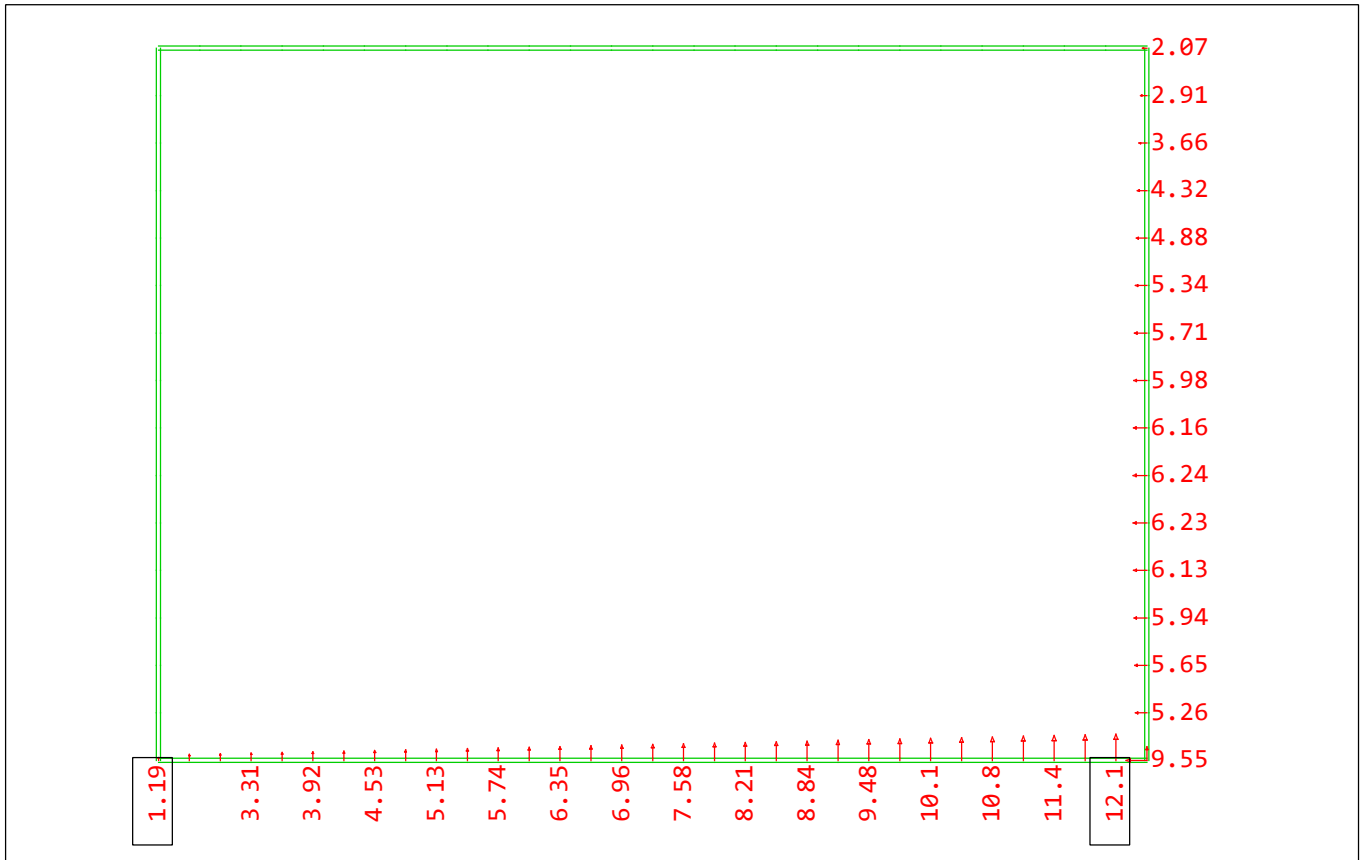


Beam Elements , Shear force Vz, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-131.4) (Max=131.4)

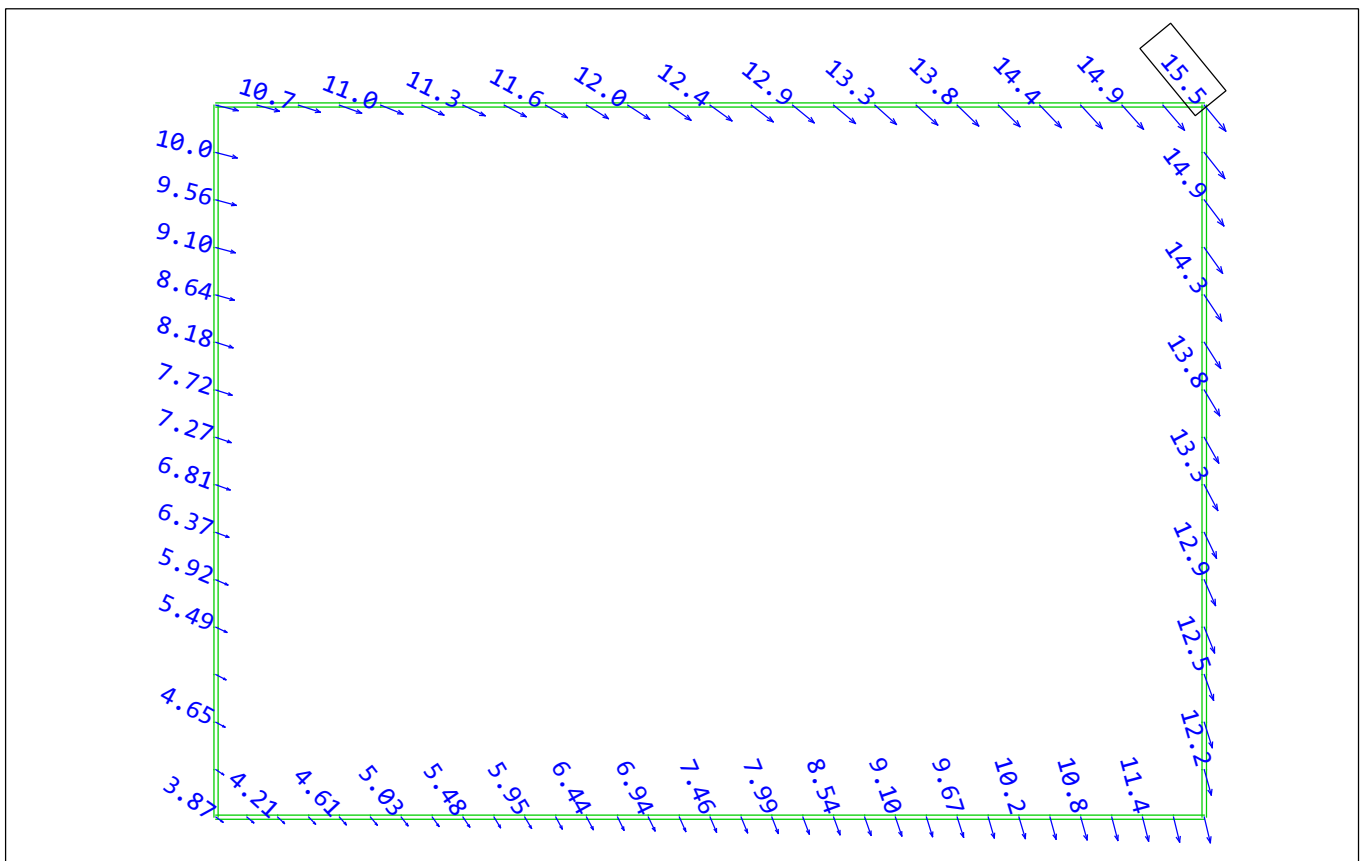


Beam Elements , Bending moment My, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4
kNm (Min=-137.2) (Max=95.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

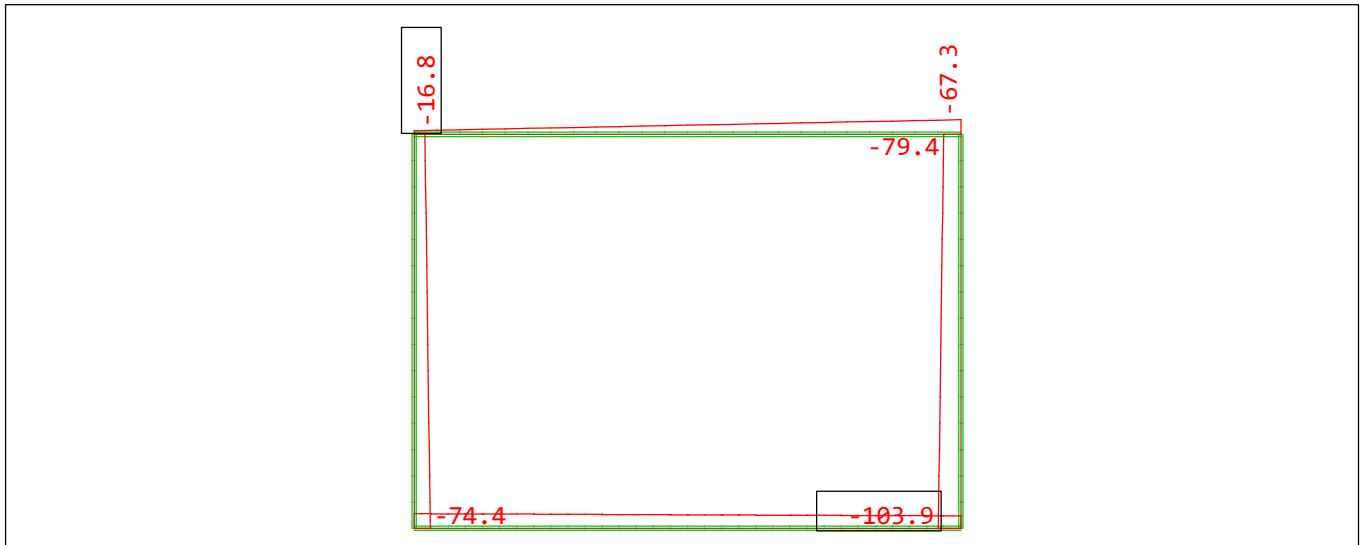


Spring force, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1, 1 cm 3D = 34.8 kN
(Max=0) (total: -320.4)

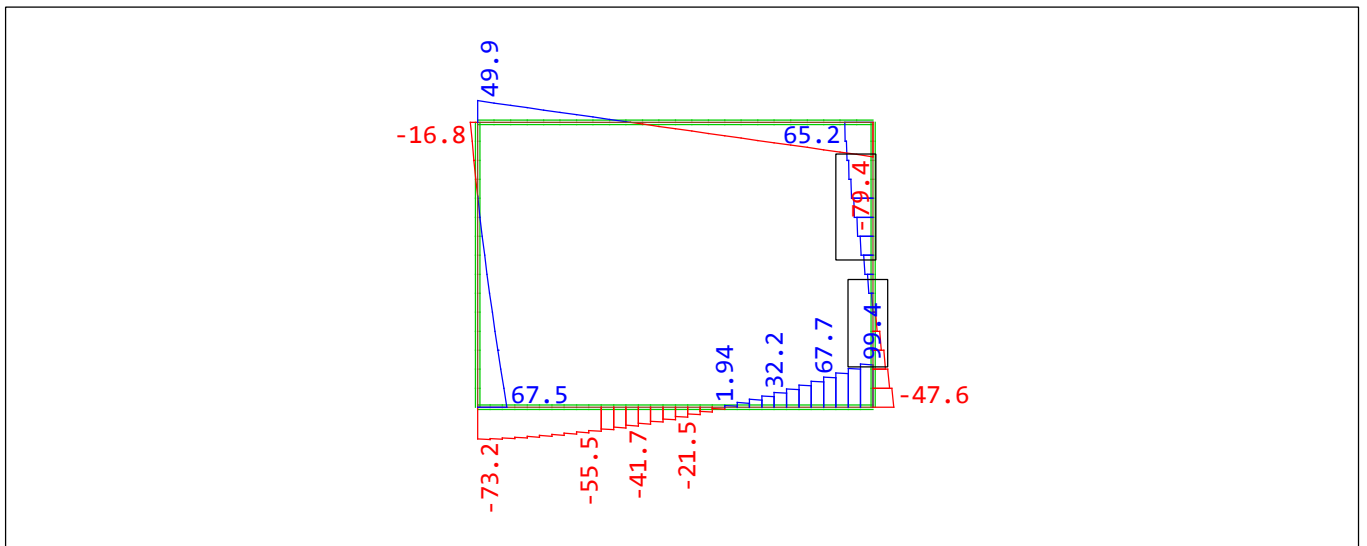


Nodal displacement vector, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1, 1 cm 3D = 34.8 mm
(Max=15.5)

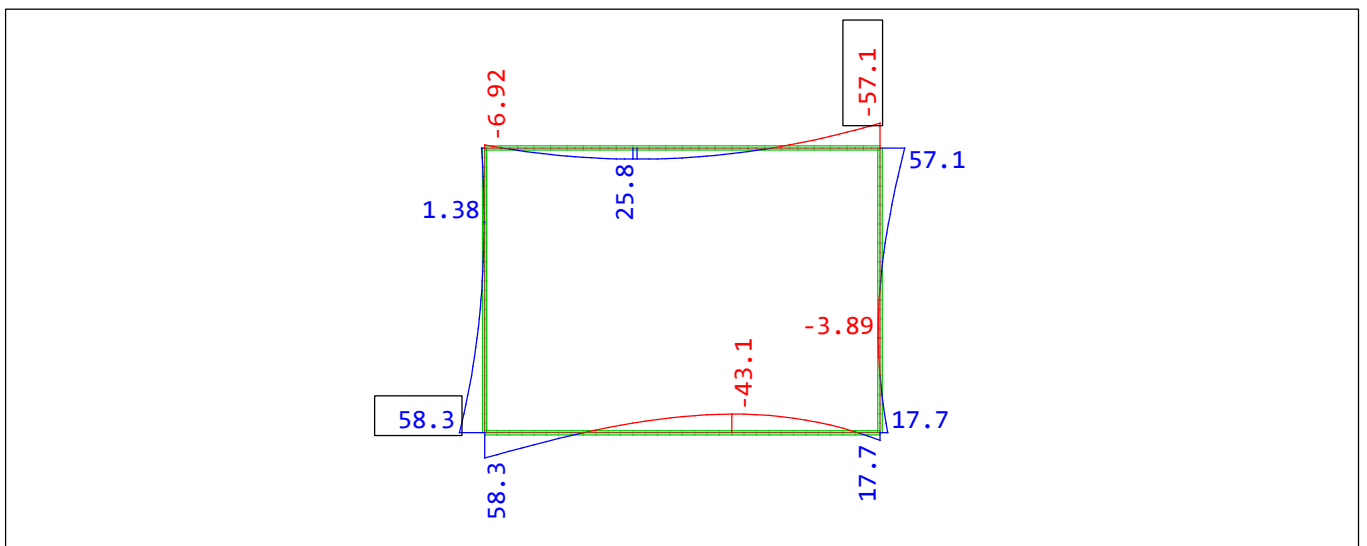
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 348.4 kN
(Min=-103.9) (Max=-16.8)

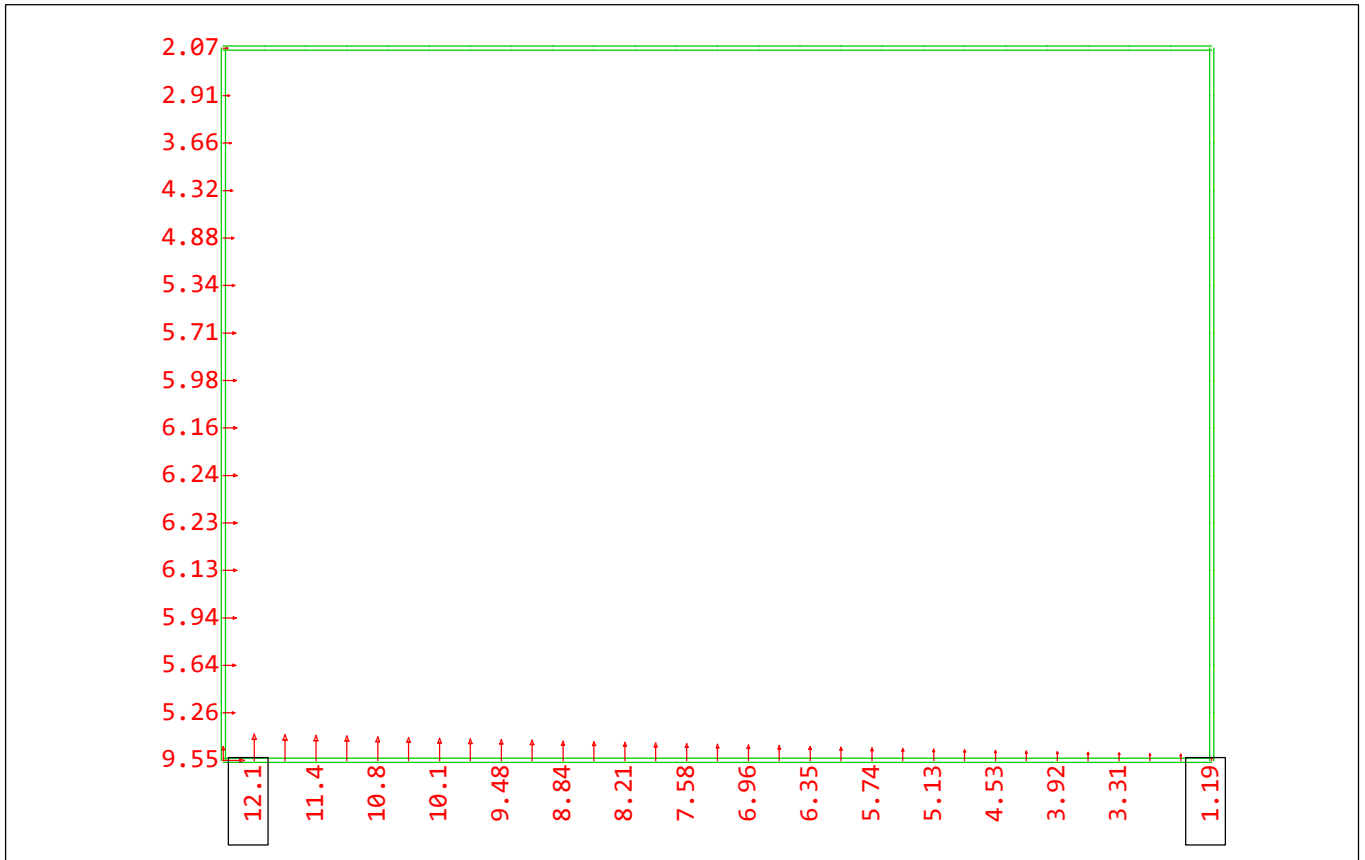


Beam Elements , Shear force Vz, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 174.2 kN
(Min=-79.4) (Max=99.4)

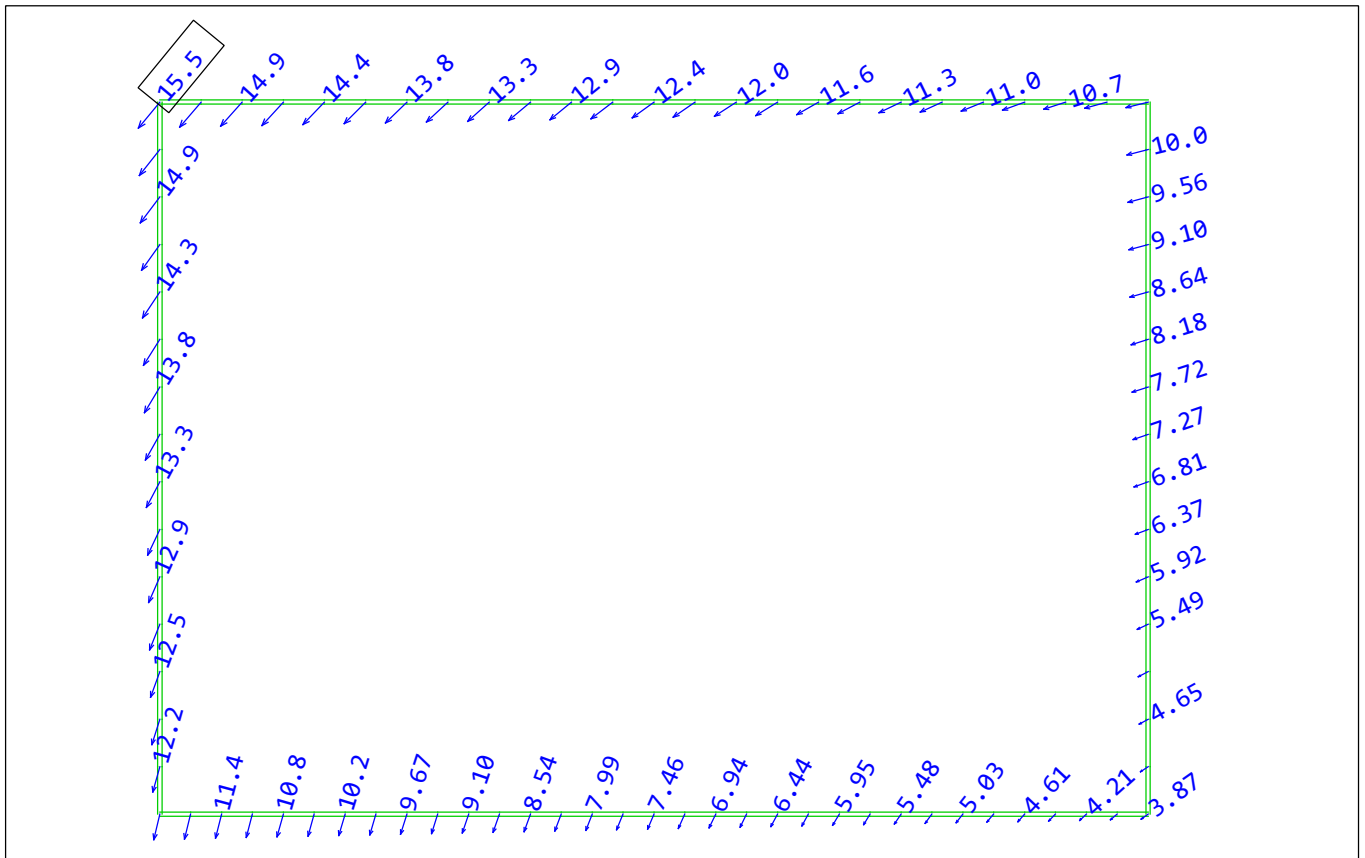


Beam Elements , Bending moment My, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 174.2 kNm (Min=-57.1) (Max=58.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

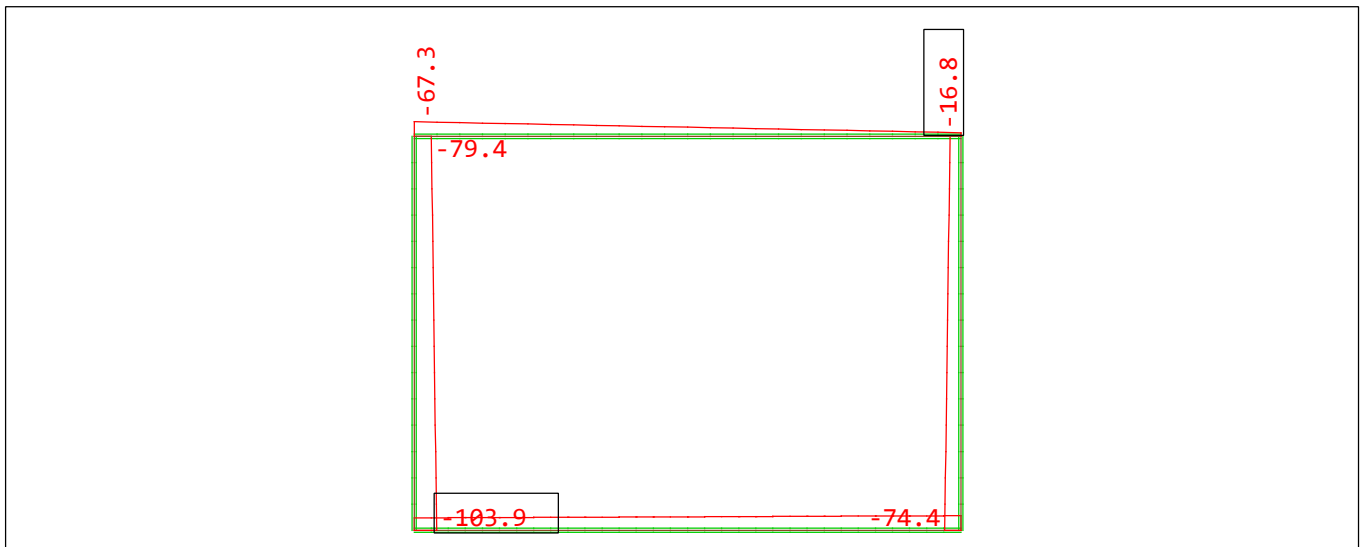


Spring force, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 34.8 kN
(Max=0) (total: -320.4) (Min=-12.1)

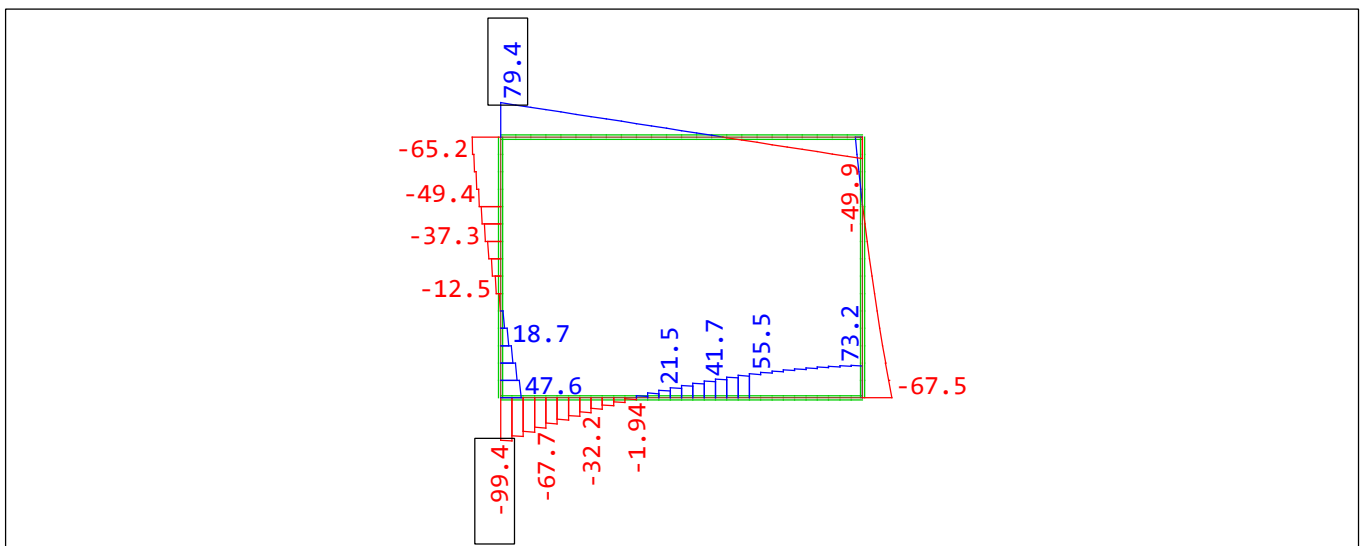


Nodal displacement vector, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 34.8 mm
(Max=15.5)

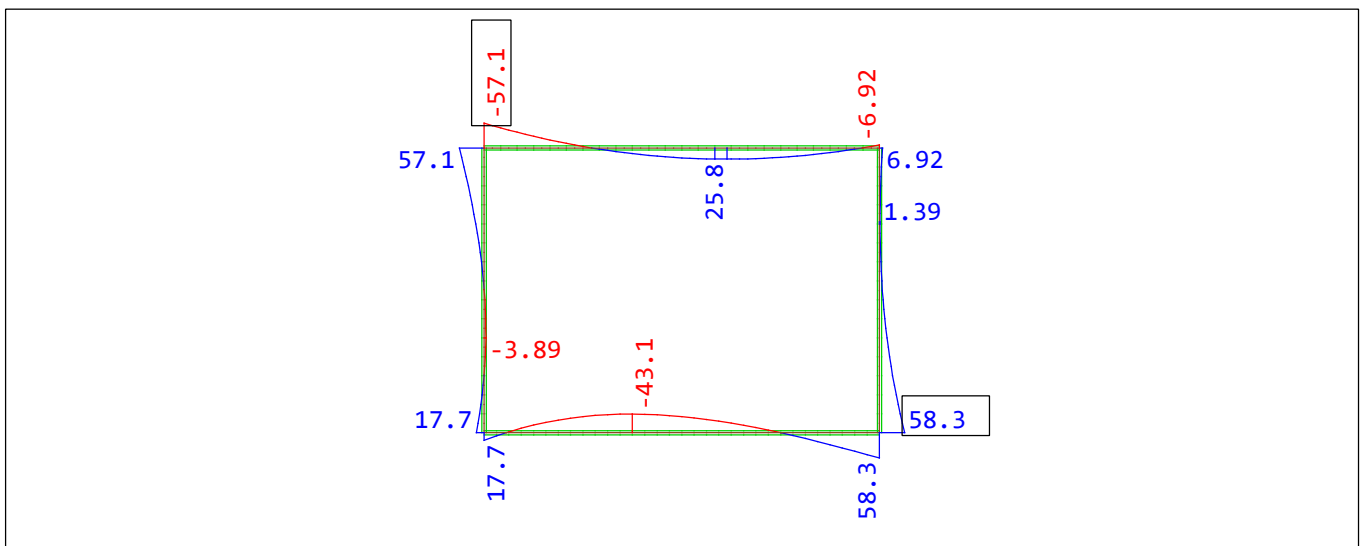
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 348.4 kN
(Min=-103.9) (Max=-16.8)

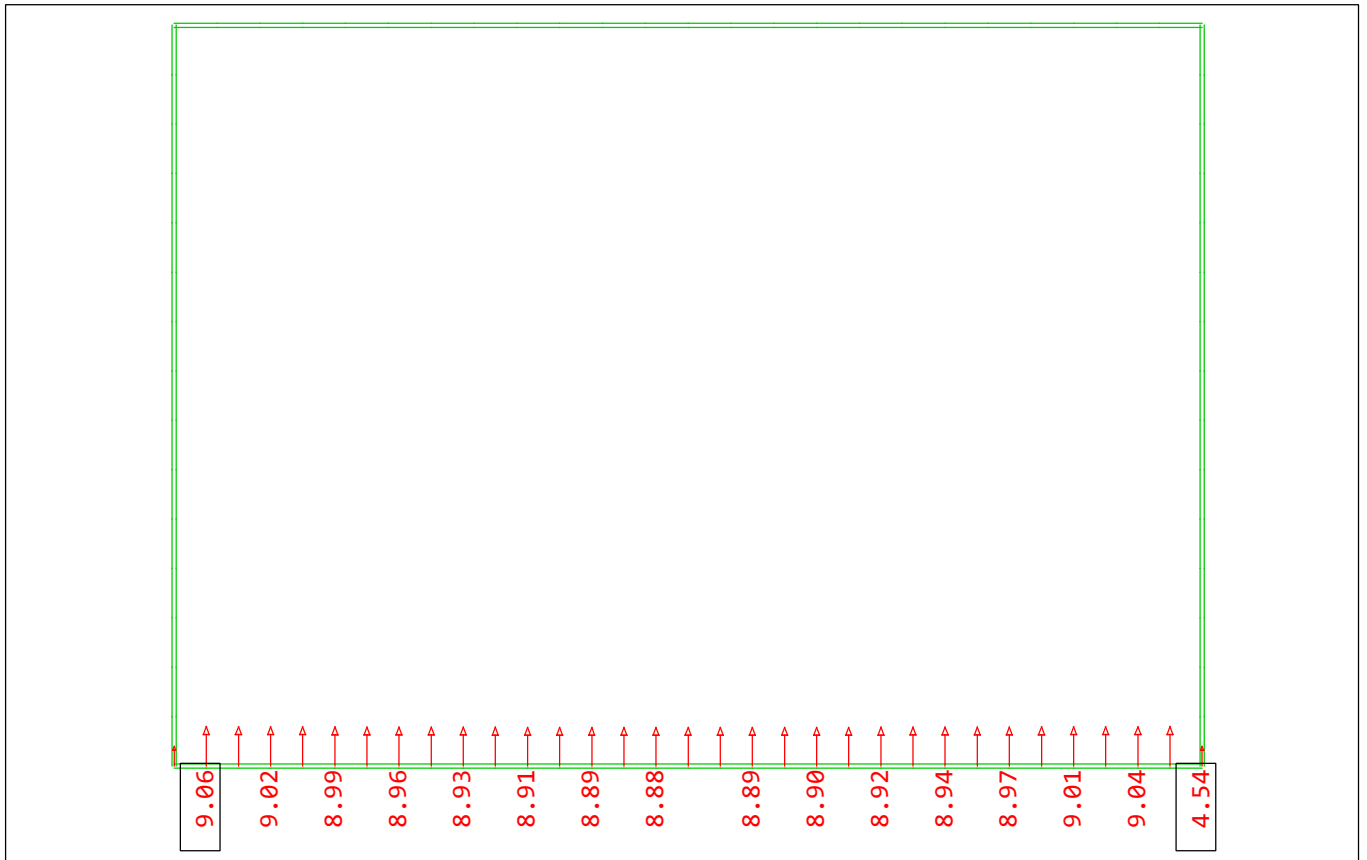


Beam Elements , Shear force Vz, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 174.2 kN
(Min=-99.4) (Max=79.4)

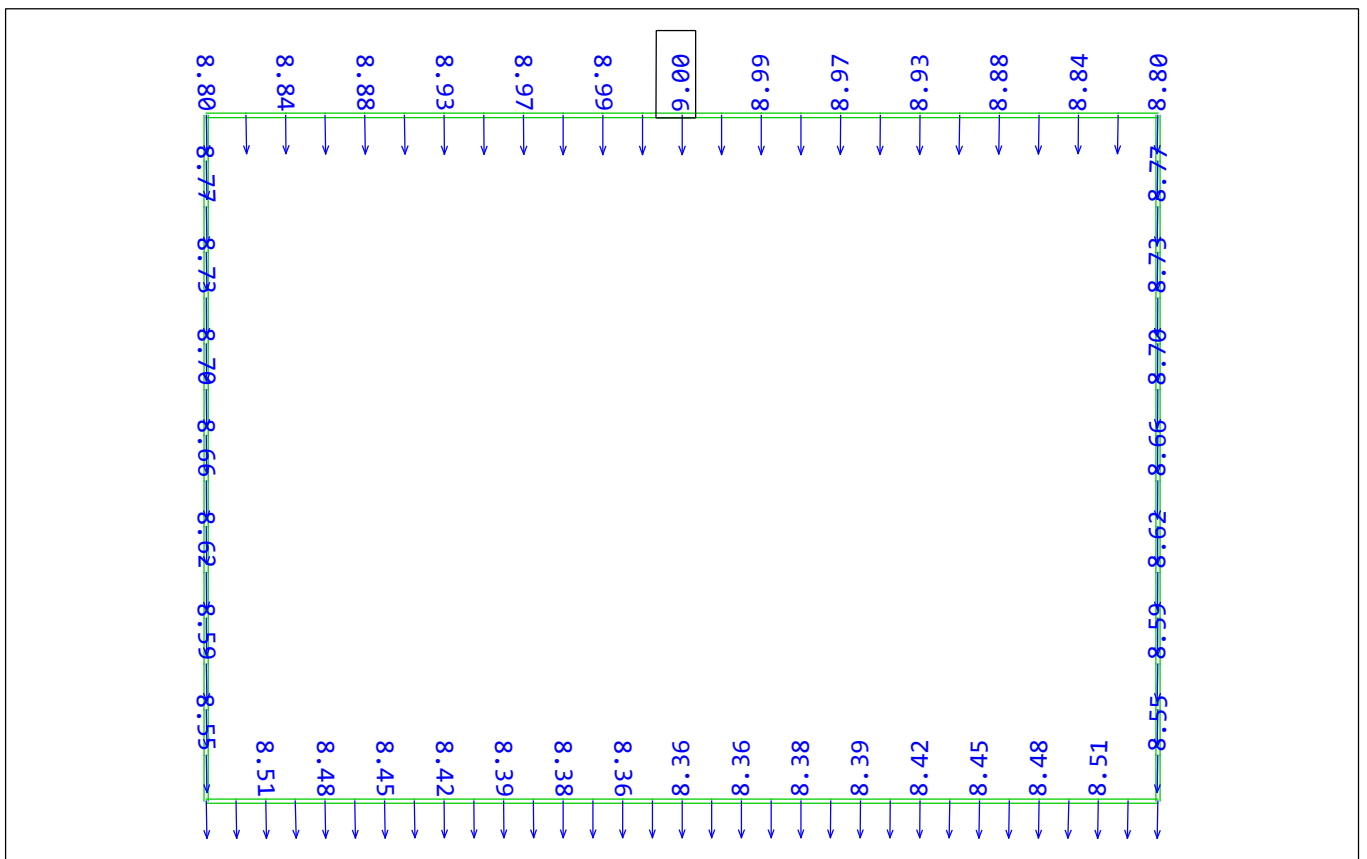


Beam Elements , Bending moment My, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 174.2 kNm (Min=-57.1) (Max=58.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

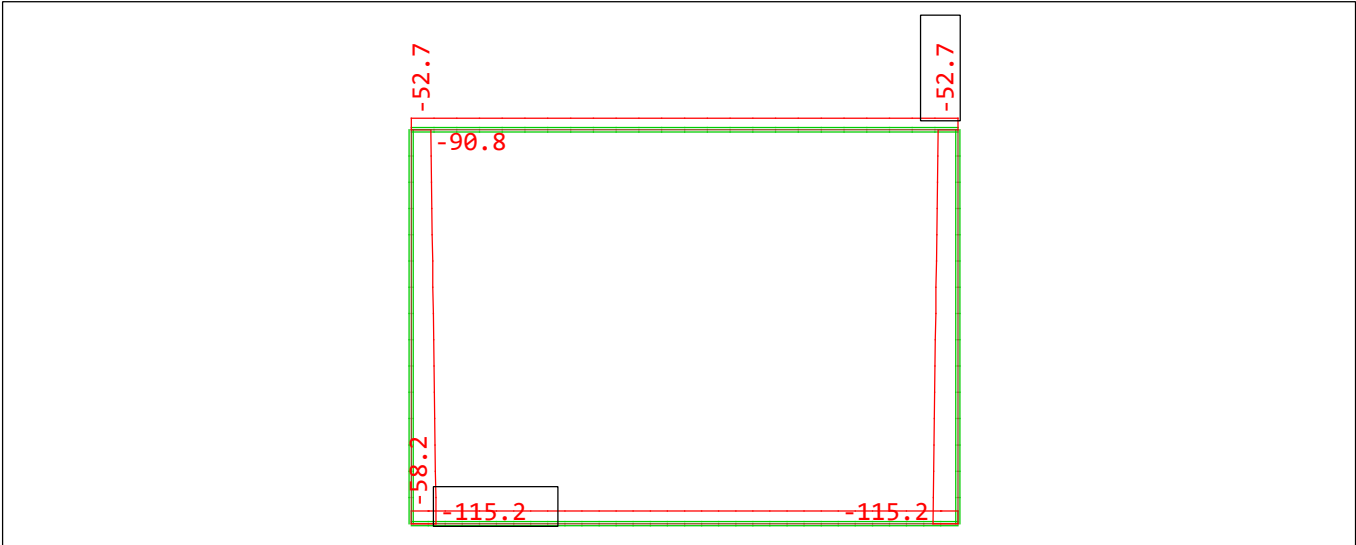


Spring force, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 17.4 kN
(Max=0) (total: -286.6) (Min=-9.06)

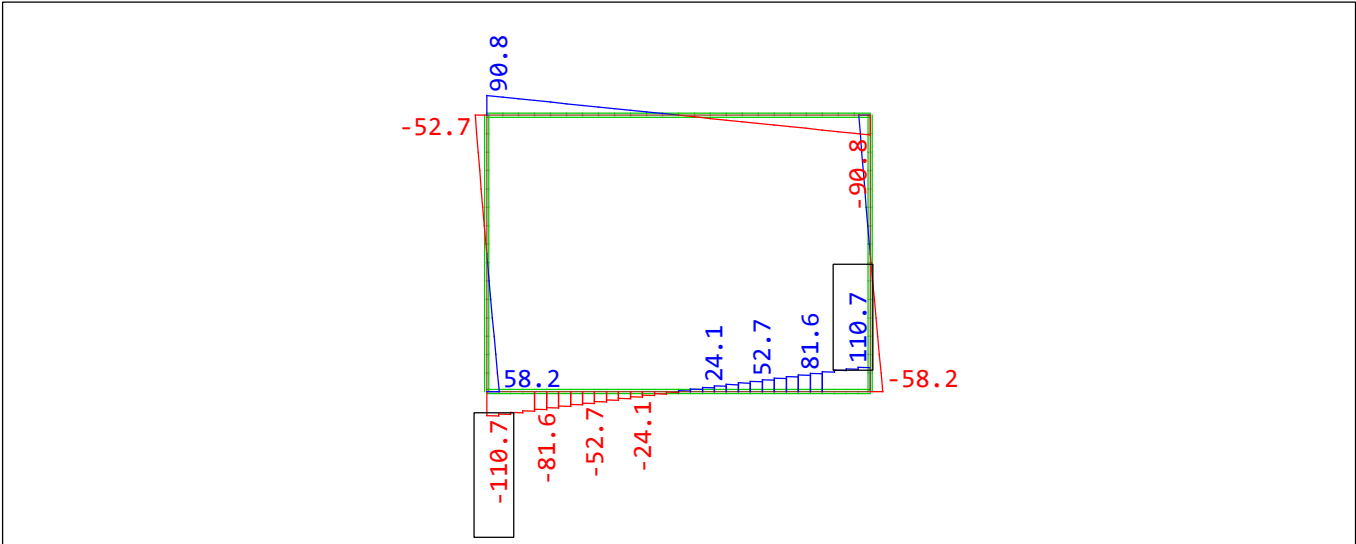


Nodal displacement vector, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 17.4 mm
(Max=9.00)

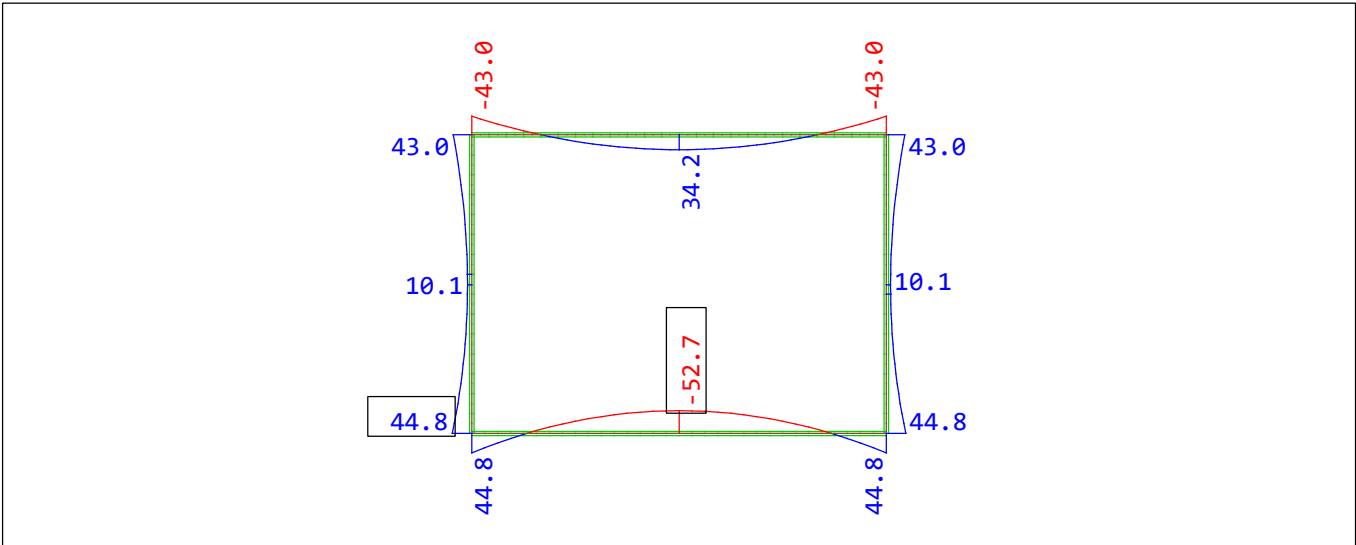
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
 (Min=-115.2) (Max=-52.7)

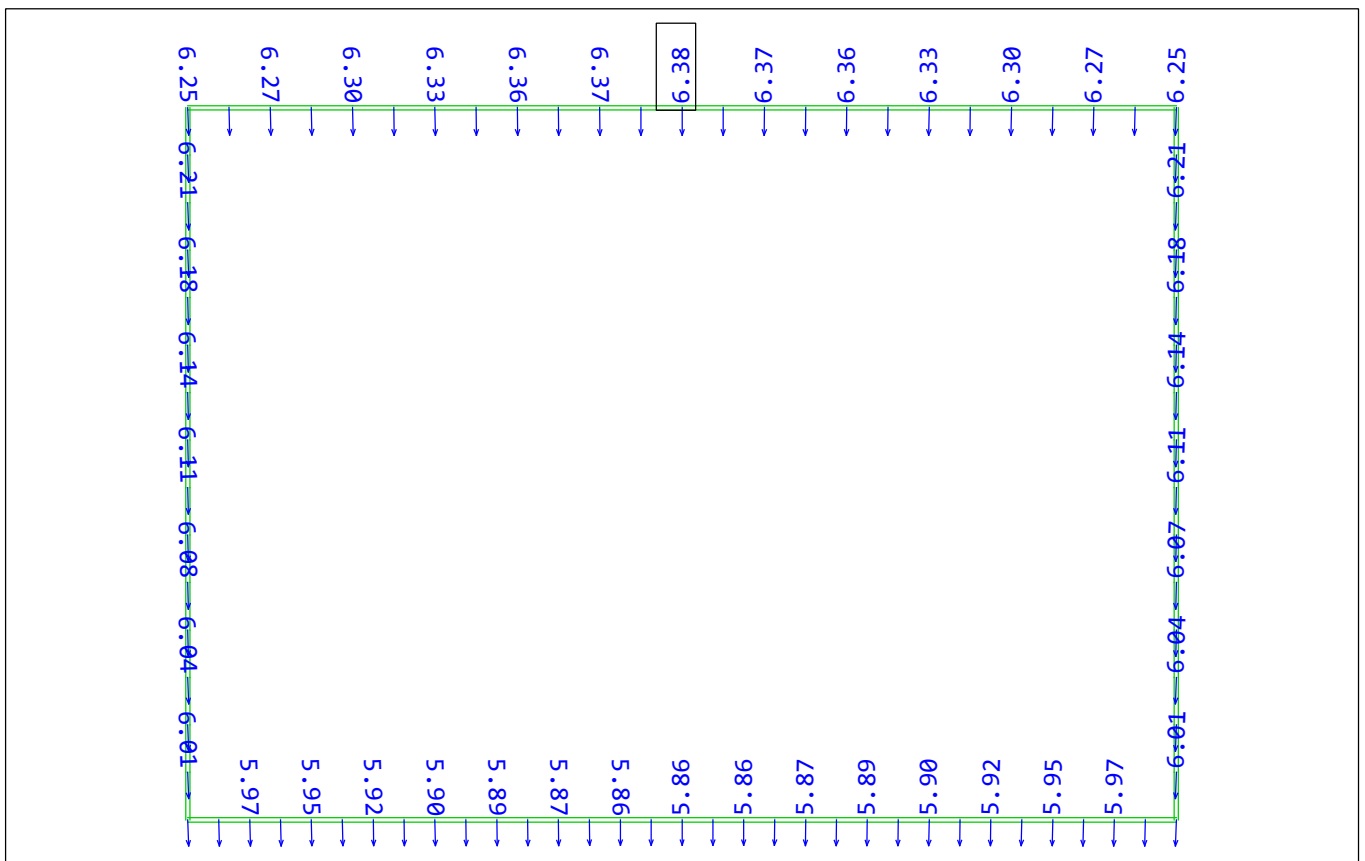
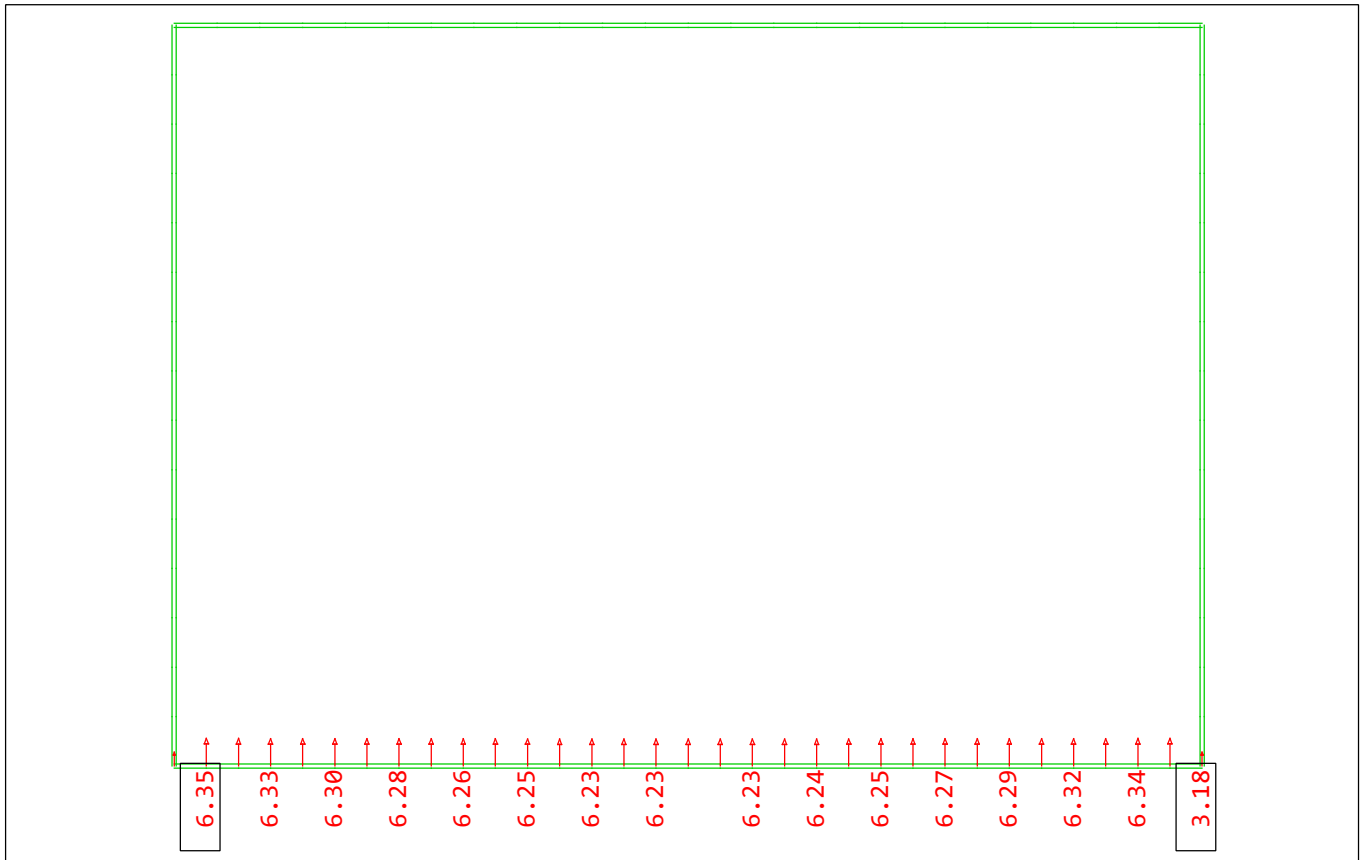


Beam Elements , Shear force Vz, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
 (Min=-112.5) (Max=112.5)

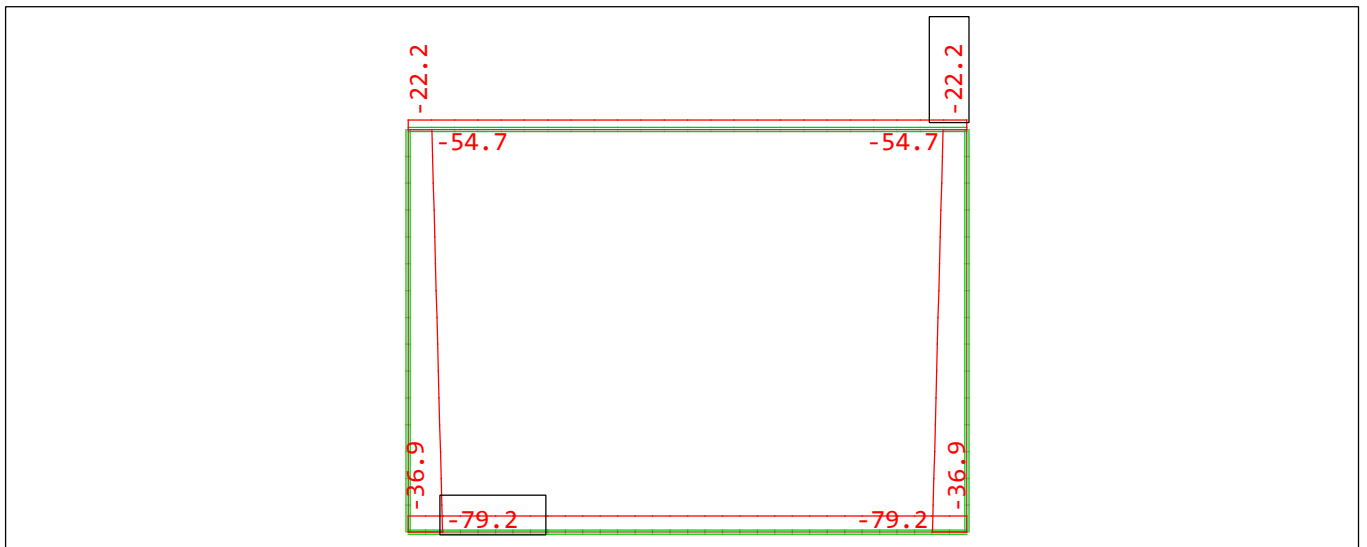


Beam Elements , Bending moment My, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 174.2
 kNm (Min=-52.7) (Max=44.8)

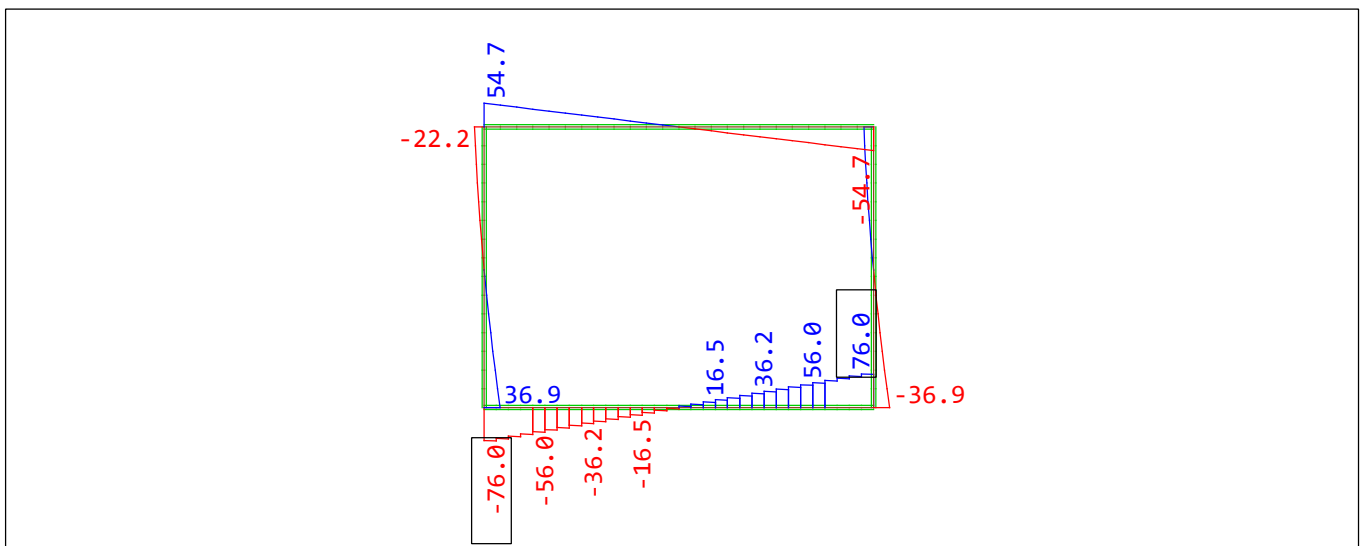
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



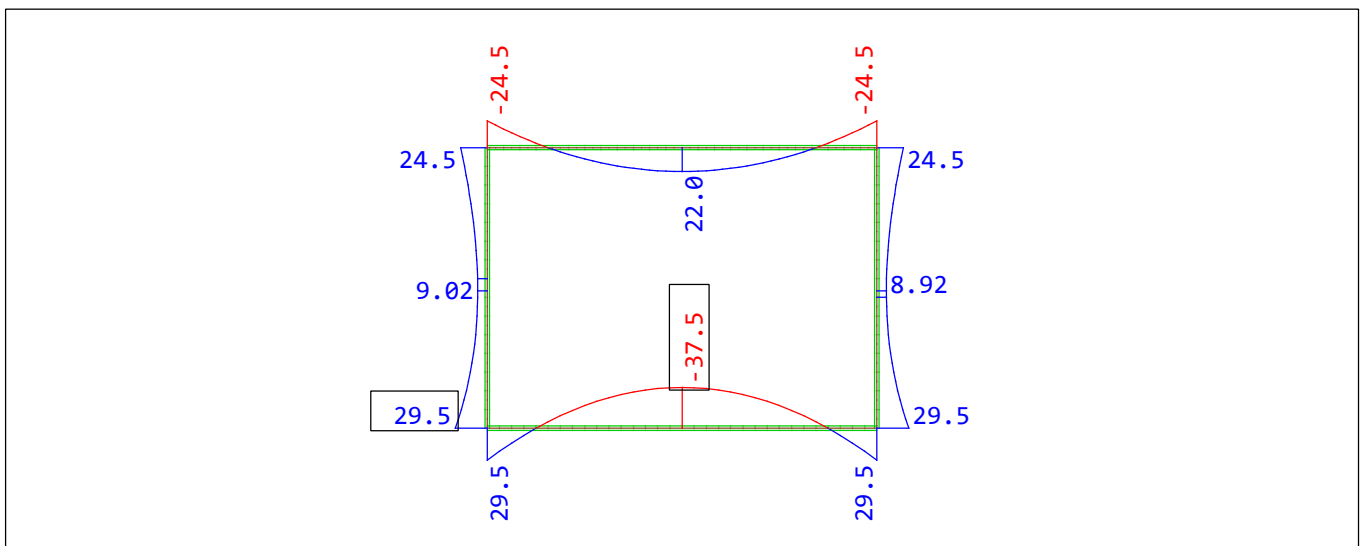
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-79.2)
(Max=-22.2)

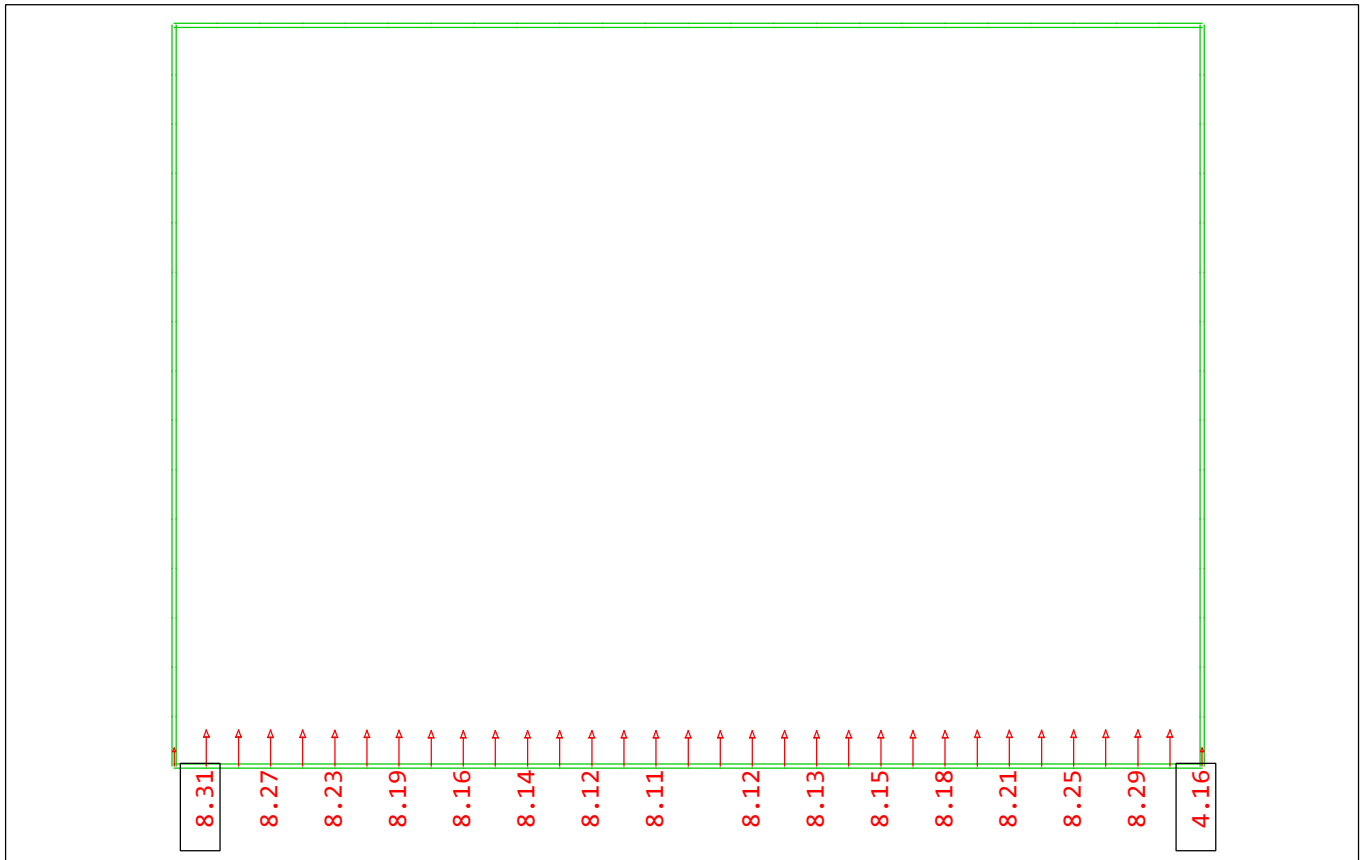


Beam Elements , Shear force Vz, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-77.4)
(Max=77.4)

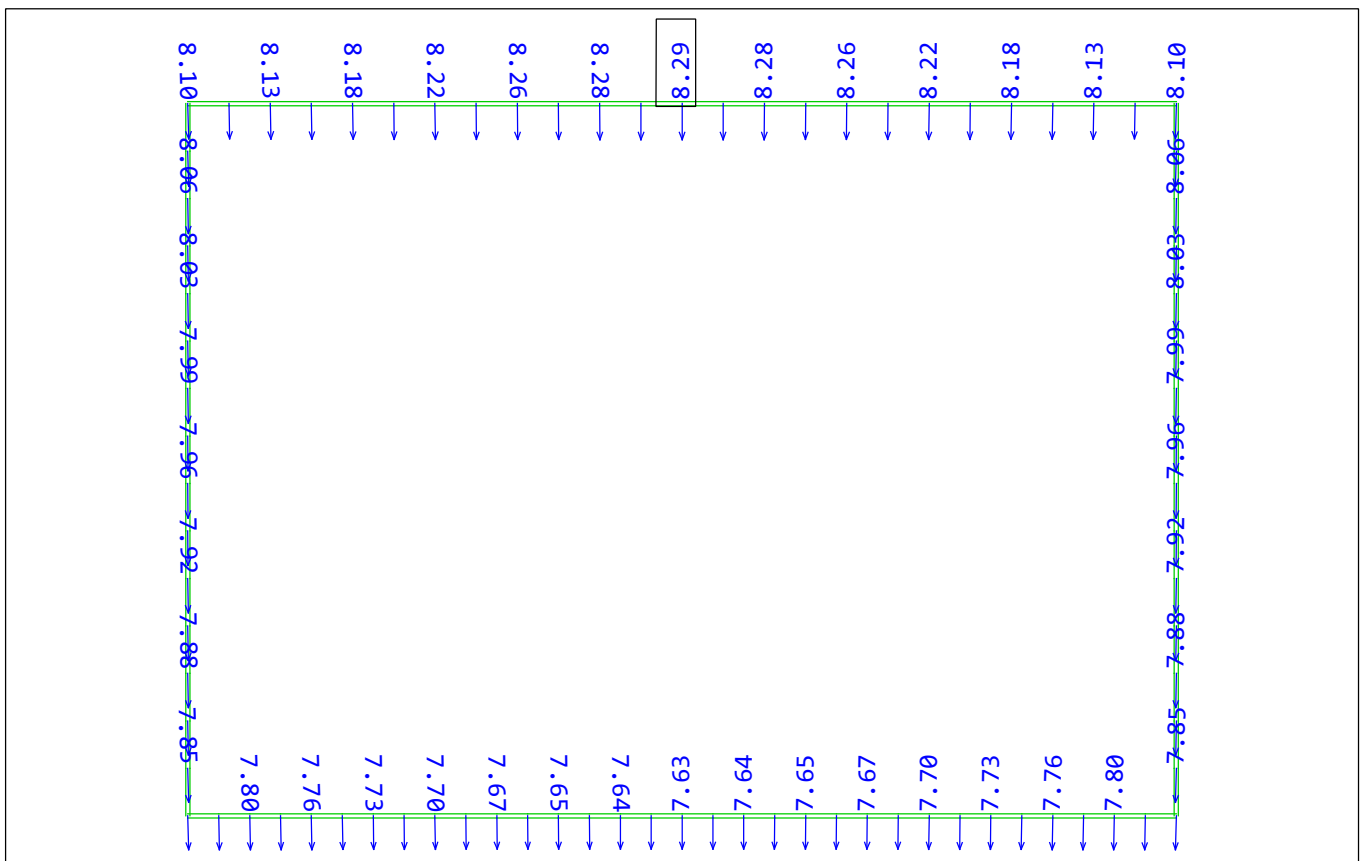


Beam Elements , Bending moment My, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 69.7 kNm (Min=-37.5)
(Max=29.5)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

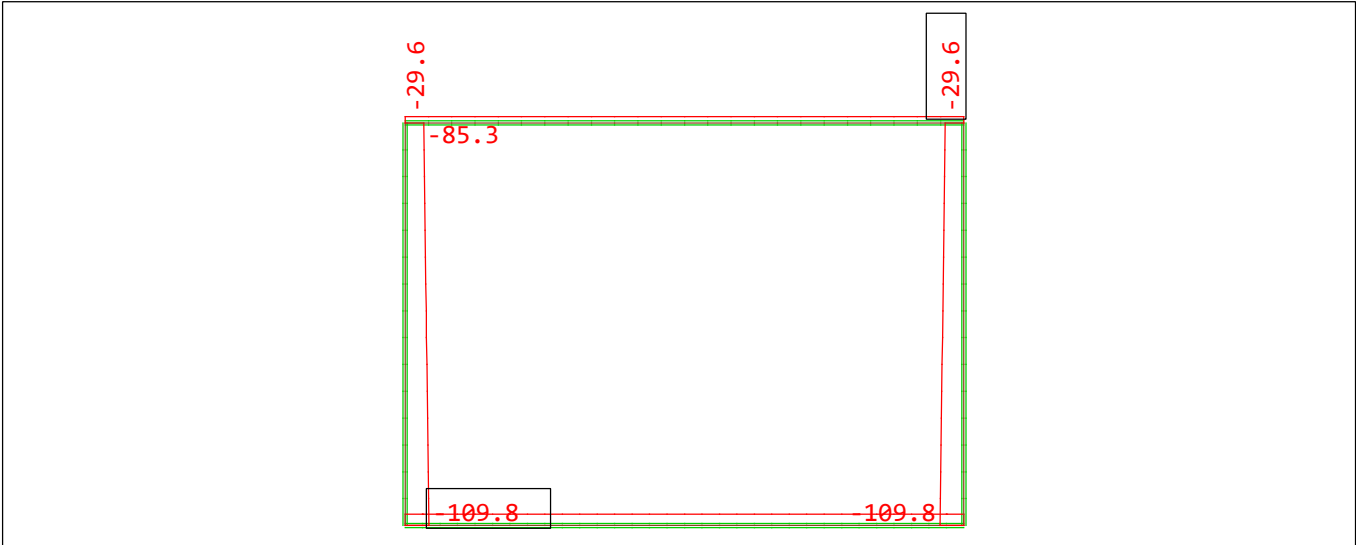


Spring force, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 17.4 kN
(Min=-8.31) (Max=0) (total: -262.1)



Nodal displacement vector, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 17.4 mm
(Max=8.29)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My

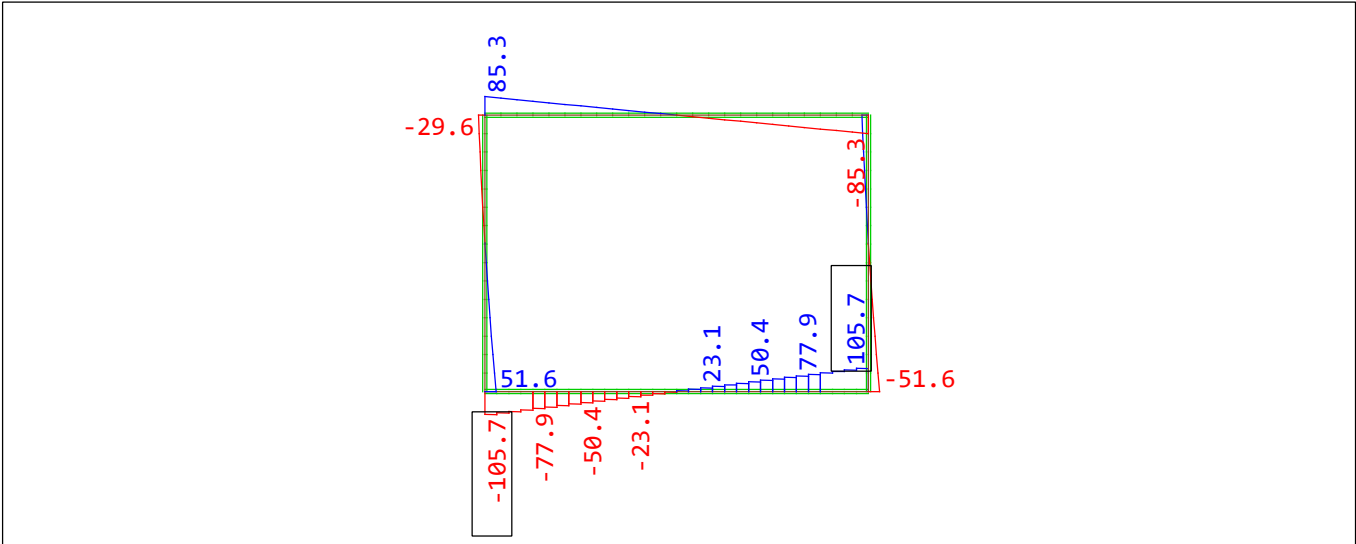


z

x

v

Beam Elements , Normal force Nx, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-109.8) (Max=-29.6)

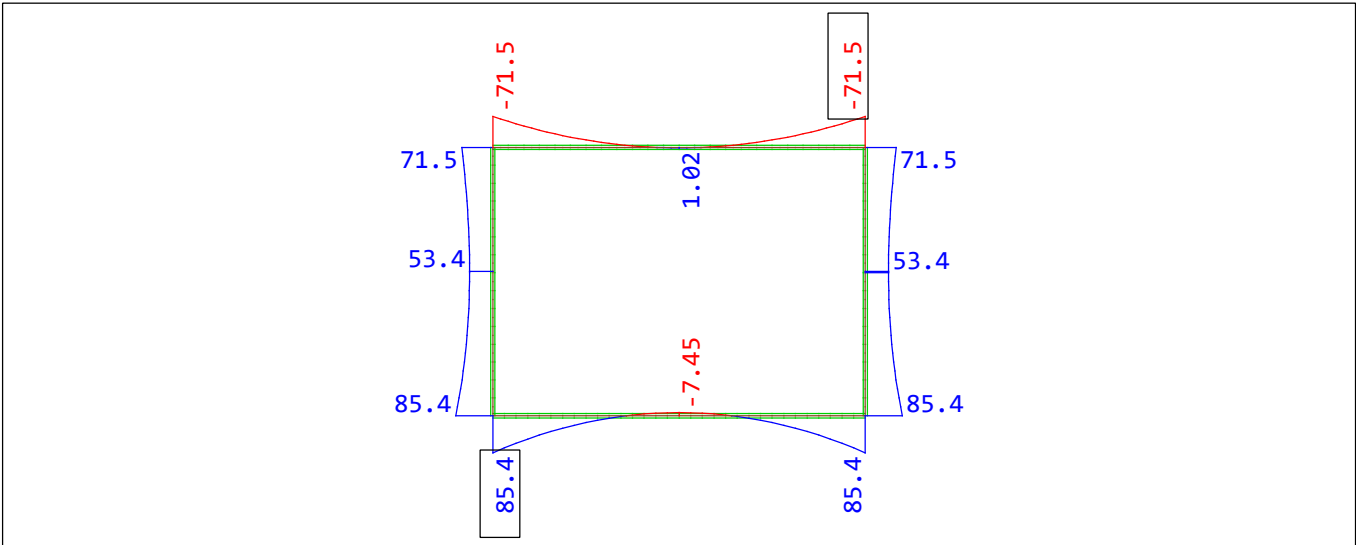


z

x

v

Beam Elements , Shear force Vz, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-107.0) (Max=107.0)



z

x

v

Beam Elements , Bending moment My, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 174.2 kNm (Min=-71.5) (Max=85.4)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 1

Design combination

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
100	1.00	AG1	1.35G+C
101	1.00	AG1	1.35(G+R1)+C
102	1.00	AG1	G+1.35R1+C
103	1.00	AG1	1.35G+R1+C
104	1.00	AG1	1.35(G+R1)+C+1.2W
105	1.00	AG1	G+1.35R1+C+1.2W
106	1.00	AG1	1.35G+R1+C+1.2W
107	1.00	AG1	1.35(G+R1)+C+1.5Q1
108	1.00	AG1	G+1.35R1+C+1.5Q1
109	1.00	AG1	1.35G+R1+C+1.5Q1
110	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1
111	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1
112	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1
113	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
114	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
115	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
116	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
120	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
121	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
122	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
126	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
127	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
128	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
132	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
133	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
134	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
138	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
139	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
140	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
144	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
145	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
146	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
150	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

Load Case selection

Number	Fact	Type	Designation
151	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
152	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
156	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
157	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
158	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
162	1.00	AG1	G+1.35R1+C+1.2W+1.5T
163	1.00	AG1	1.35G+R1+C+1.2W+1.5T
164	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
165	1.00	AG1	G+1.35R1+C+1.2W+1.5T
166	1.00	AG1	1.35G+R1+C+1.2W+1.5T
167	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
168	1.00	AG1	G+1.35R1+C+1.2W+1.5T
169	1.00	AG1	1.35G+R1+C+1.2W+1.5T
170	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
171	1.00	AG1	G+1.35R1+C+1.2W+1.5T
172	1.00	AG1	1.35G+R1+C+1.2W+1.5T
201	1.00	AG1	1.35(G+R2)+C
202	1.00	AG1	G+1.35R2+C
203	1.00	AG1	1.35G+R2+C
204	1.00	AG1	1.35(G+R2)+C+1.2W
205	1.00	AG1	G+1.35R2+C+1.2W
206	1.00	AG1	1.35G+R2+C+1.2W
207	1.00	AG1	1.35(G+R2)+C+1.5Q2
208	1.00	AG1	G+1.35R2+C+1.5Q2
209	1.00	AG1	1.35G+R2+C+1.5Q2
210	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2
211	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2
212	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2
213	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
214	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
215	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
216	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
220	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
221	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
222	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
226	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
227	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
228	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
232	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
233	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
234	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

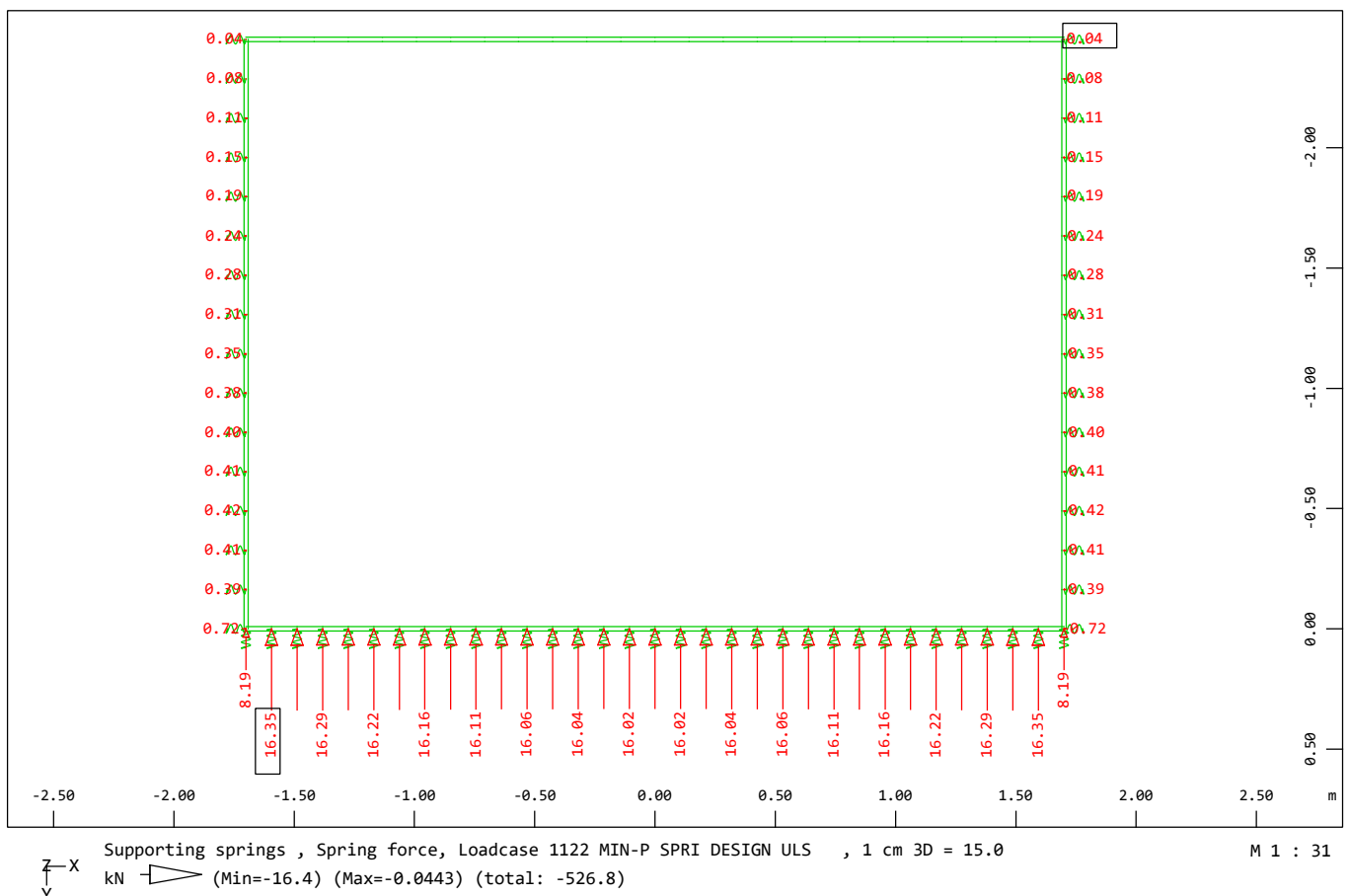
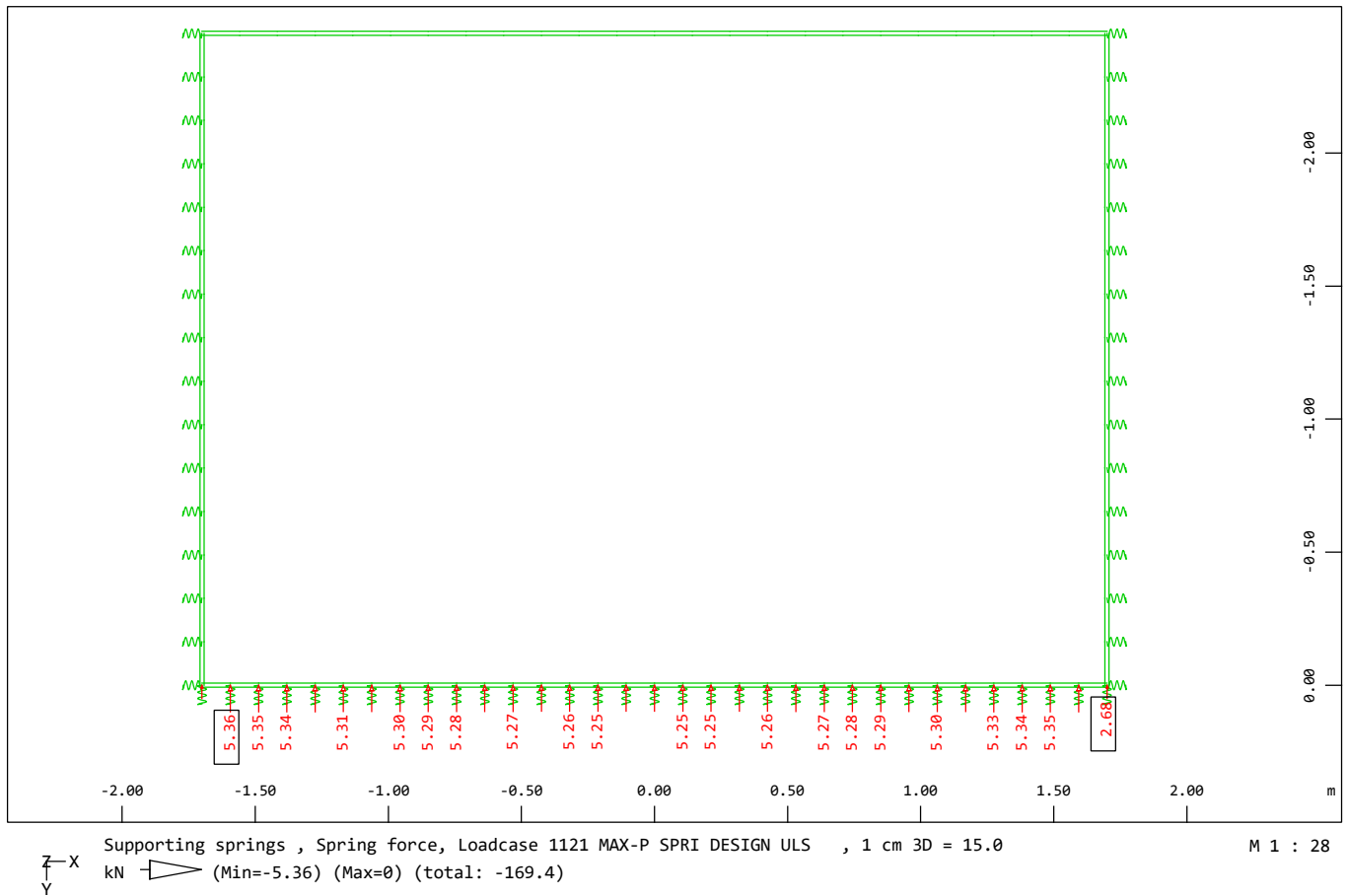
Load Case selection

Number	Fact	Type	Designation
236	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
238	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
239	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
240	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
244	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
245	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
246	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
250	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
251	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
252	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
256	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
257	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
258	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
262	1.00	AG1	G+1.35R2+C+1.2W+1.5T
263	1.00	AG1	1.35G+R2+C+1.2W+1.5T
264	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
265	1.00	AG1	G+1.35R2+C+1.2W+1.5T
266	1.00	AG1	1.35G+R2+C+1.2W+1.5T
267	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
268	1.00	AG1	G+1.35R2+C+1.2W+1.5T
269	1.00	AG1	1.35G+R2+C+1.2W+1.5T
270	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
271	1.00	AG1	G+1.35R2+C+1.2W+1.5T
272	1.00	AG1	1.35G+R2+C+1.2W+1.5T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

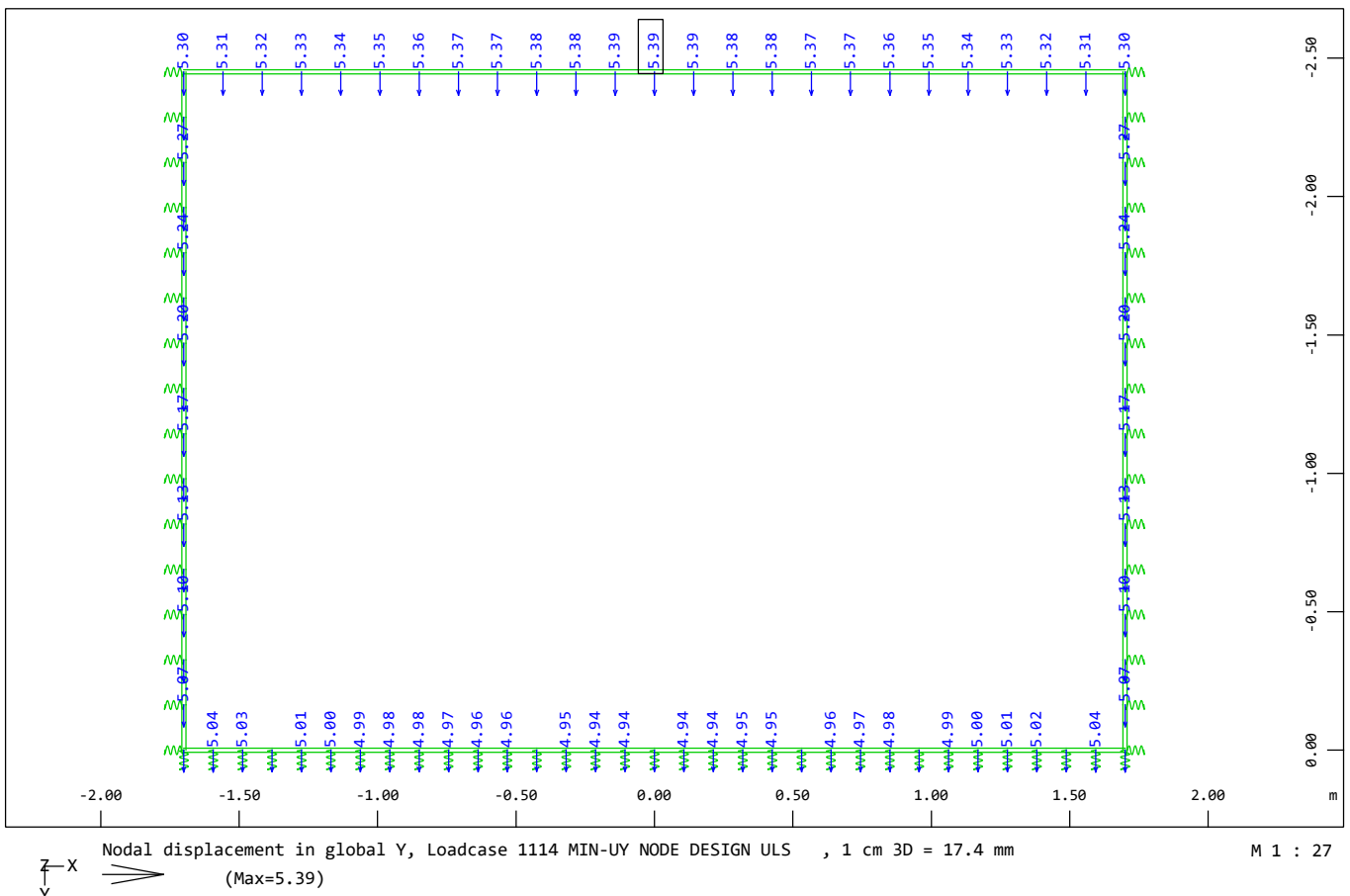
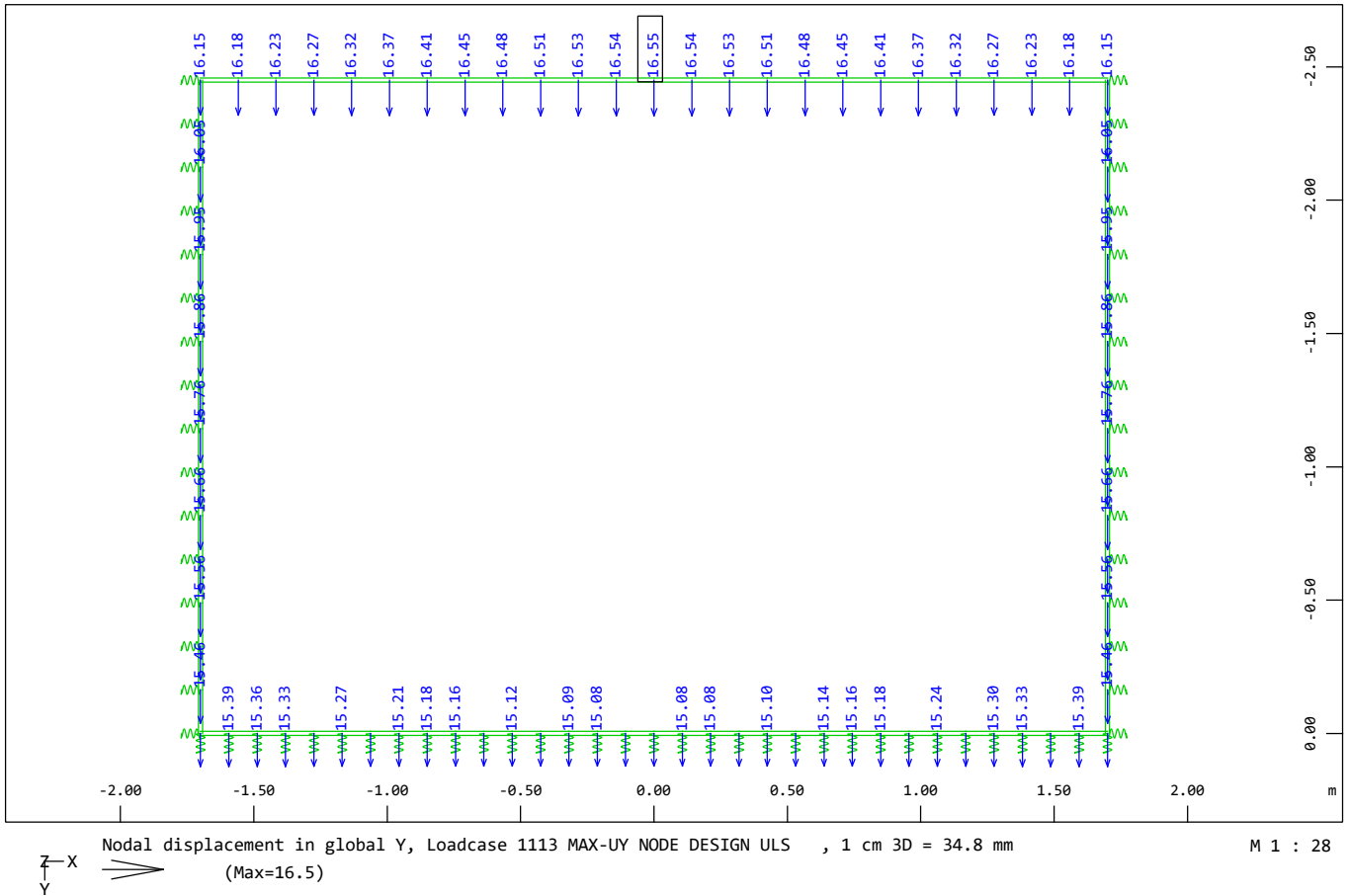
Number	Combination	Designation
1101	1	MAX-N BEAM DESIGN ULS
1102	1	MIN-N BEAM DESIGN ULS
1103	1	MAX-MY BEAM DESIGN ULS
1104	1	MIN-MY BEAM DESIGN ULS
1105	1	MAX-VZ BEAM DESIGN ULS
1106	1	MIN-VZ BEAM DESIGN ULS
1111	1	MAX-UX NODE DESIGN ULS
1112	1	MIN-UX NODE DESIGN ULS
1113	1	MAX-UY NODE DESIGN ULS
1114	1	MIN-UY NODE DESIGN ULS
1121	1	MAX-P SPRI DESIGN ULS
1122	1	MIN-P SPRI DESIGN ULS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
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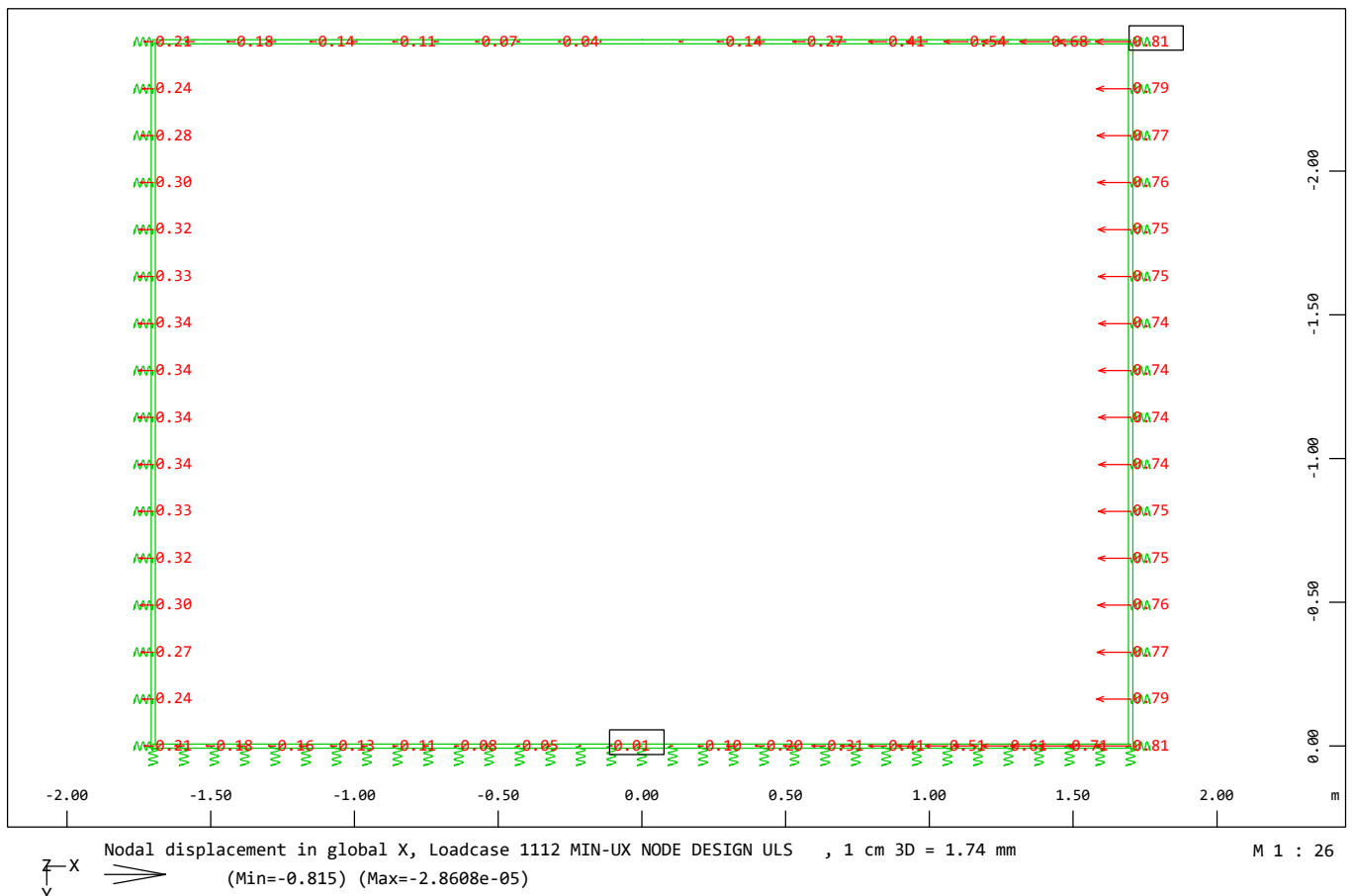
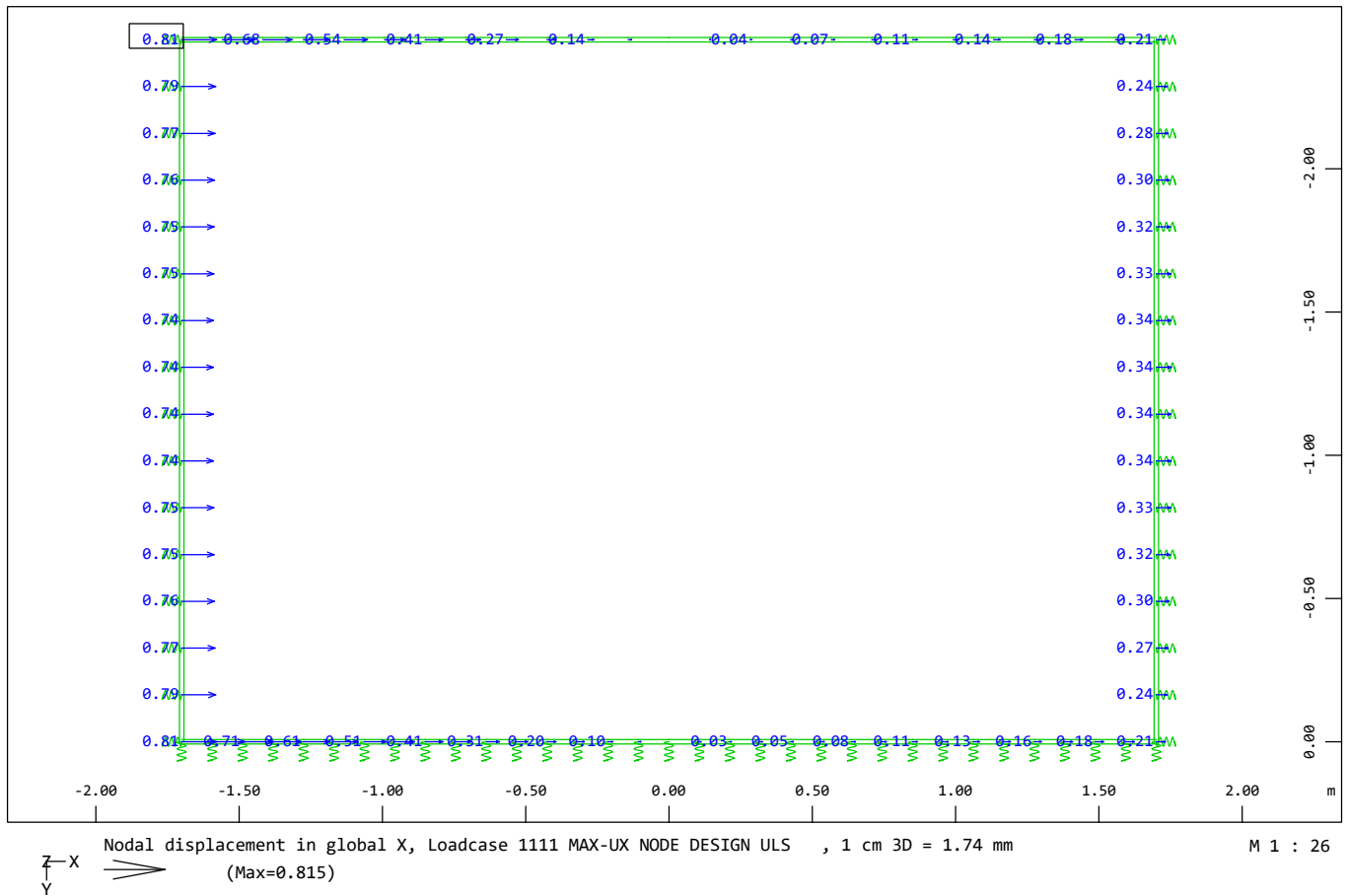


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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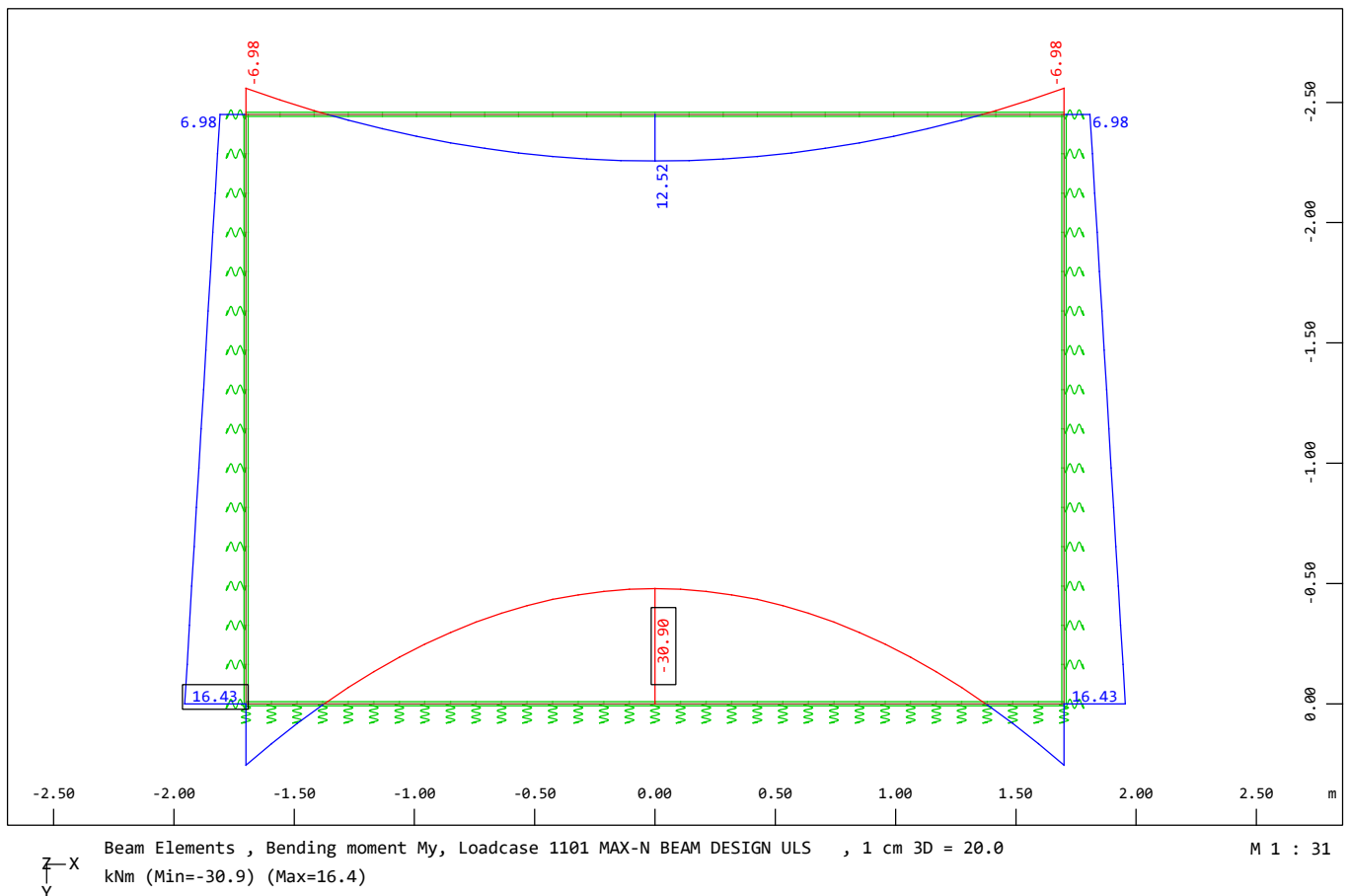
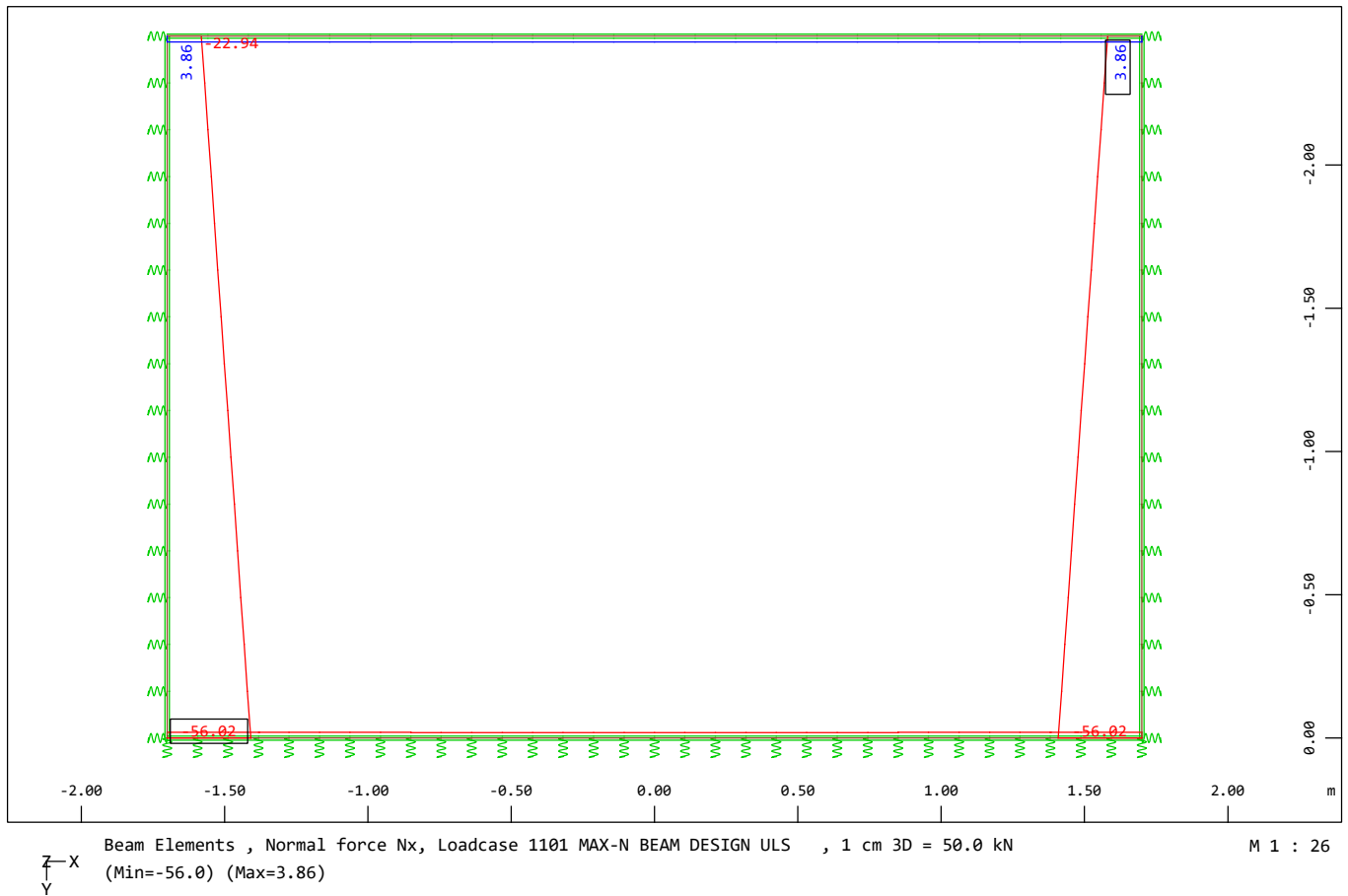
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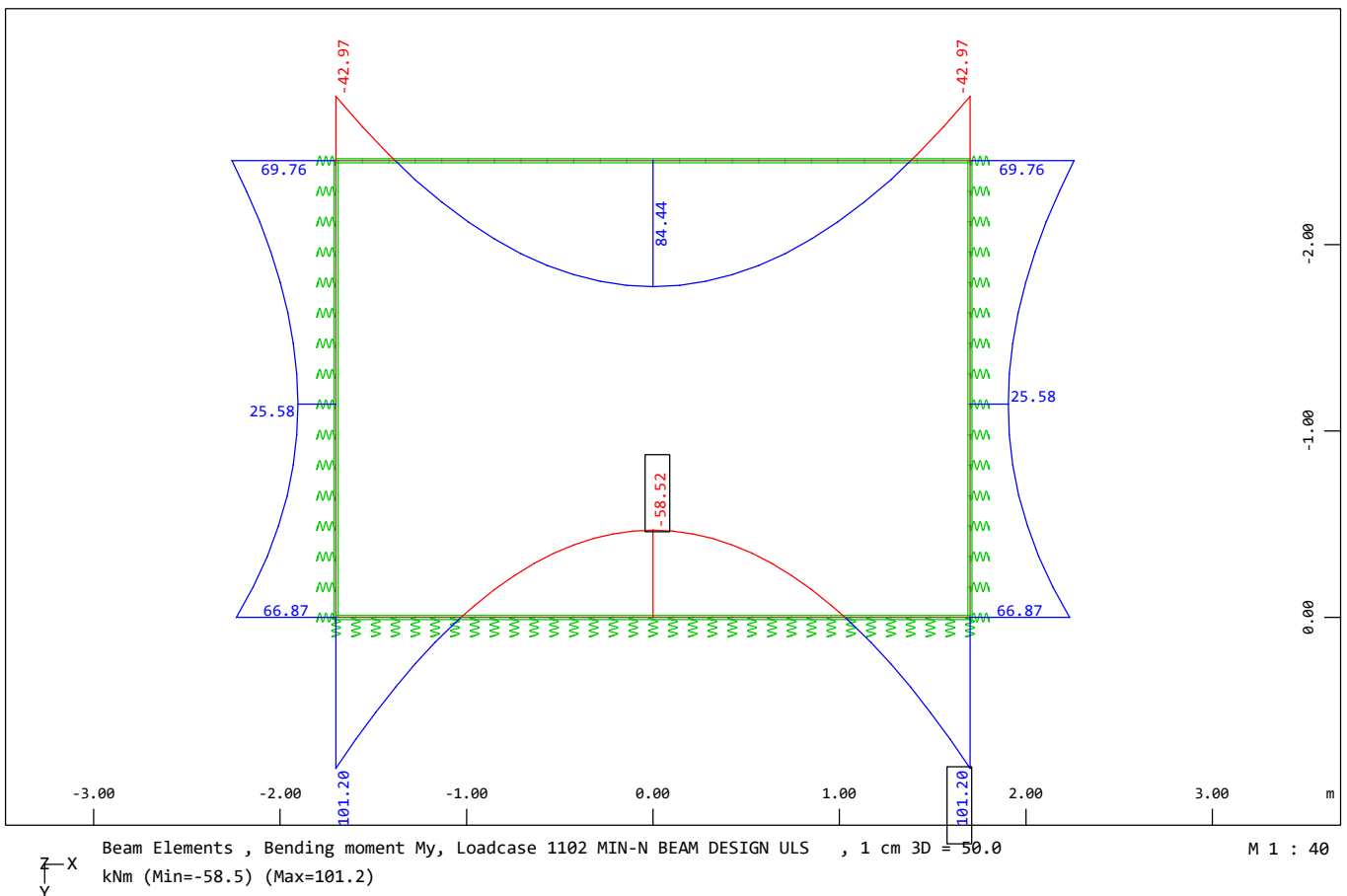
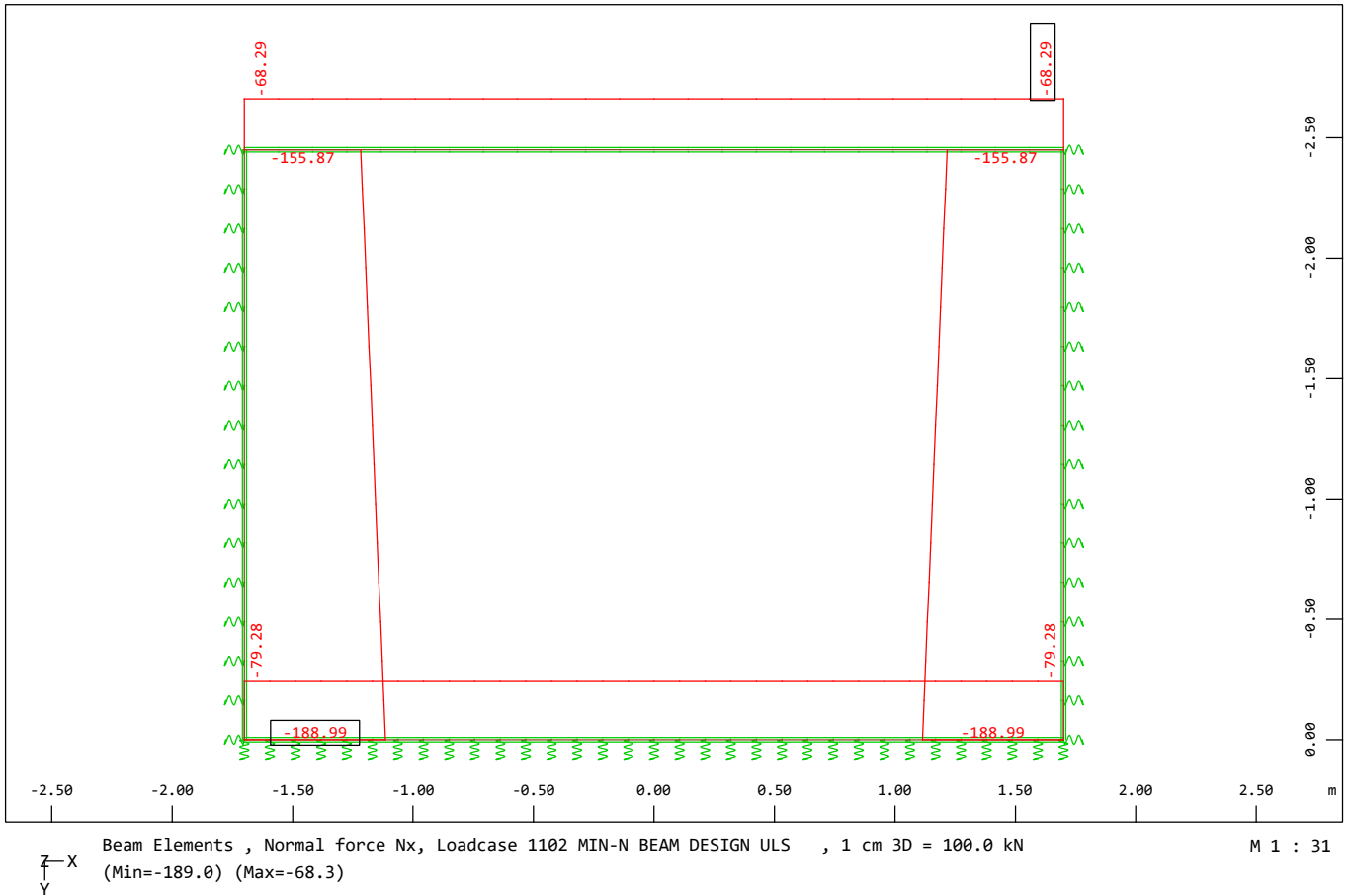
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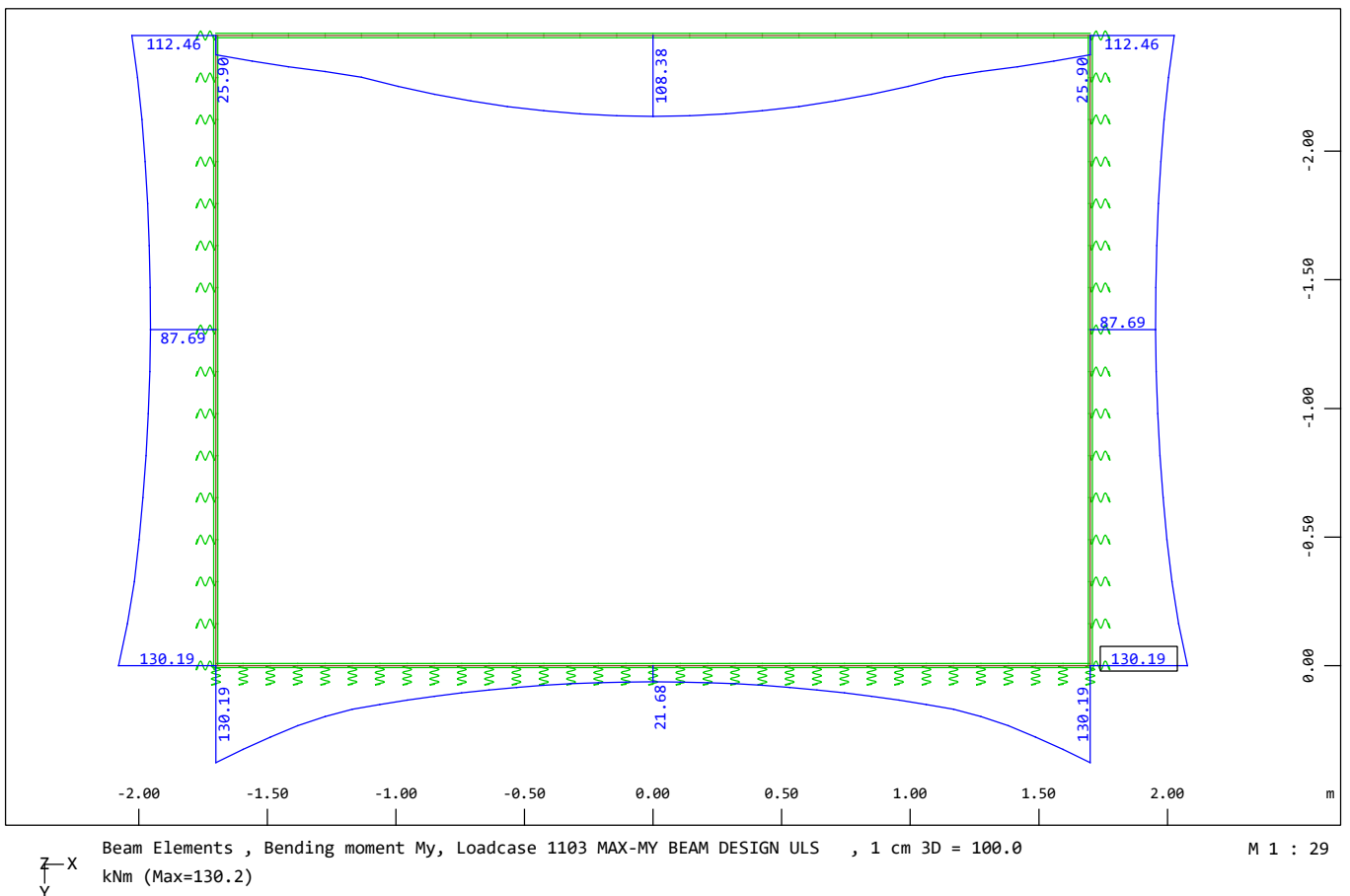
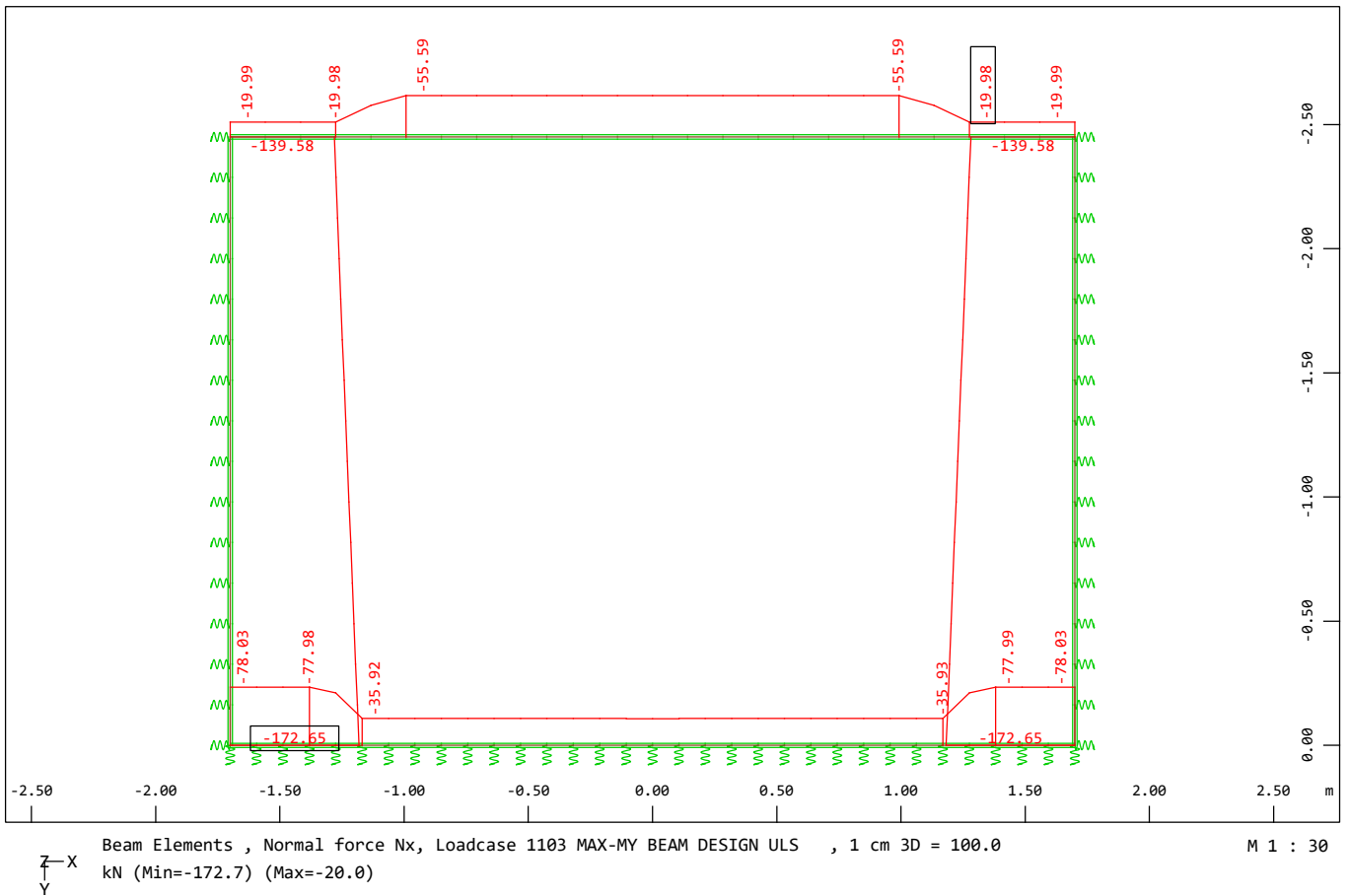
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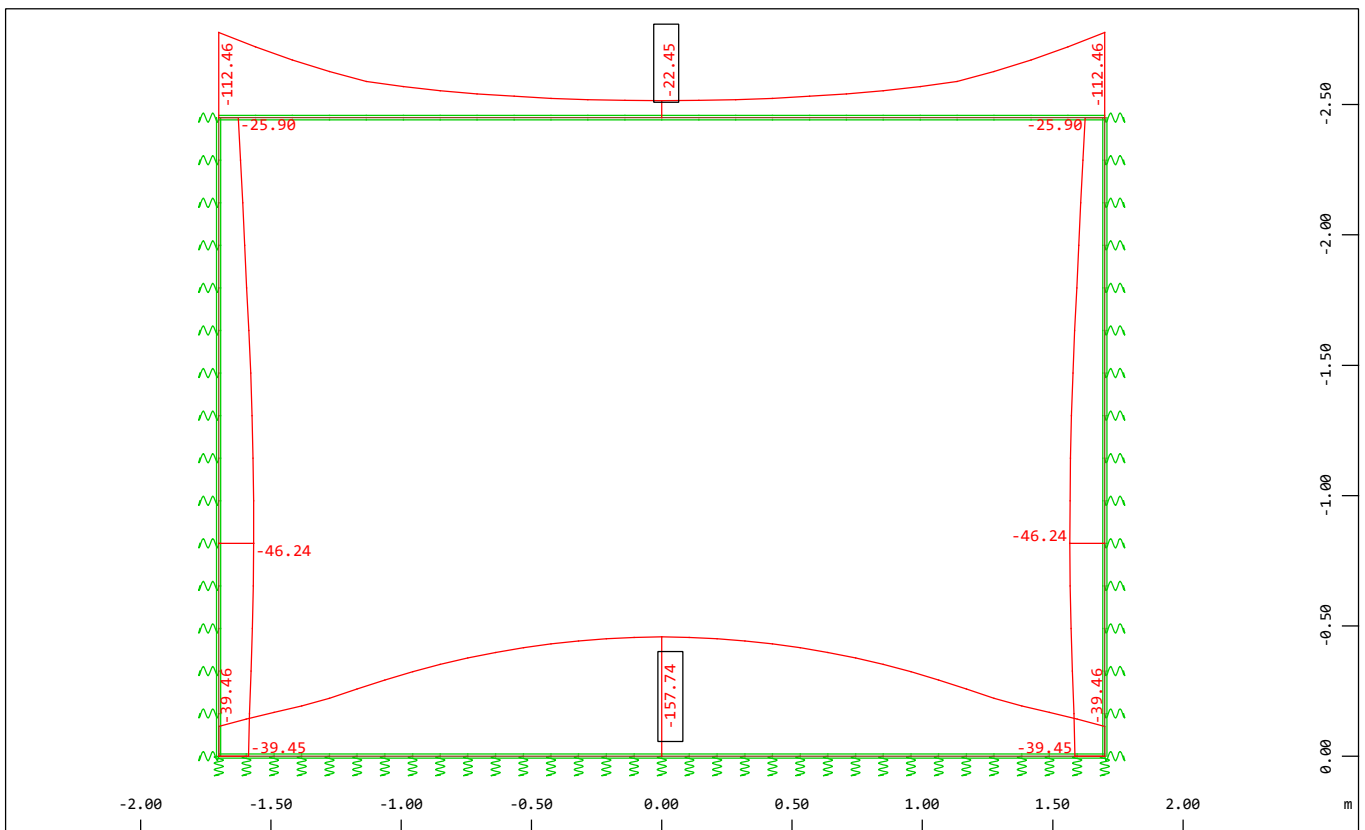
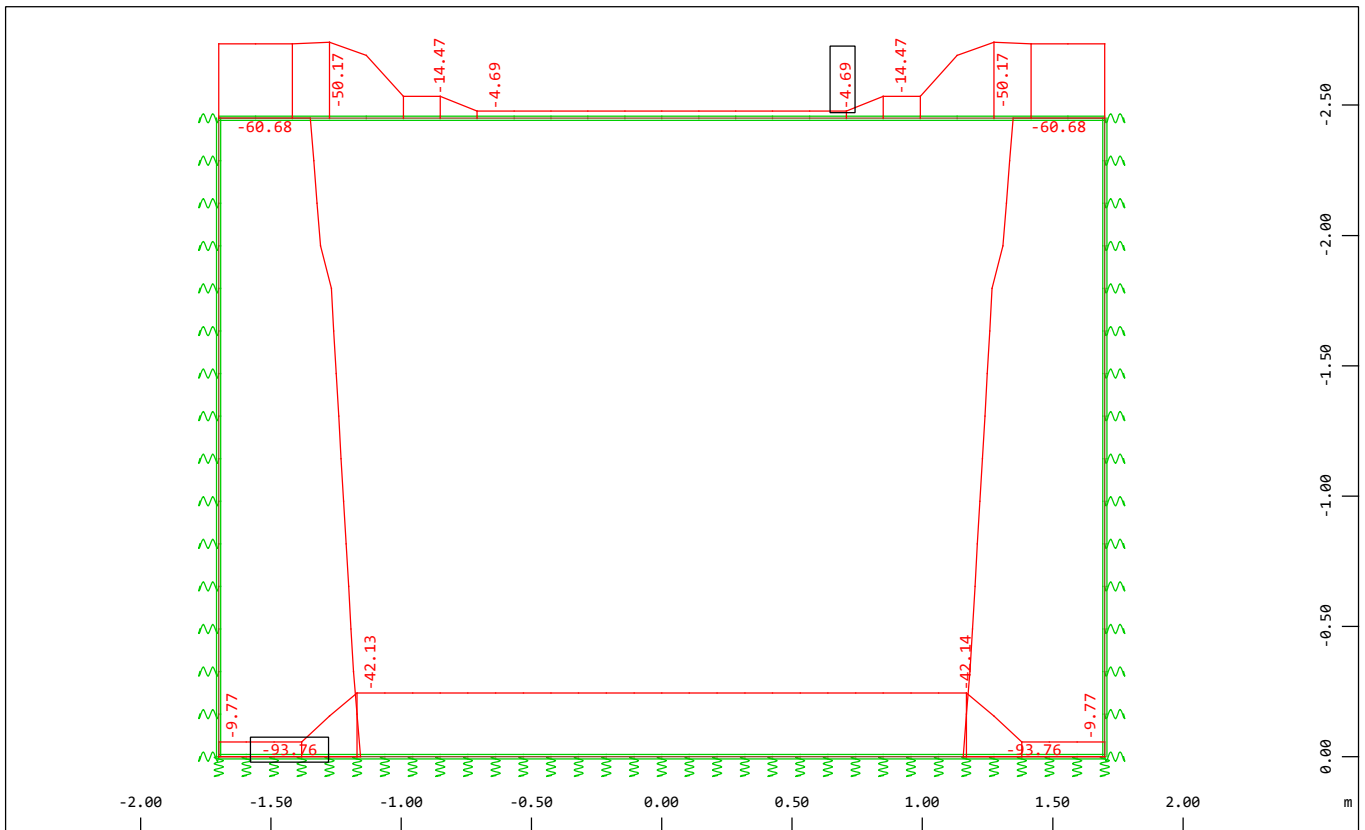
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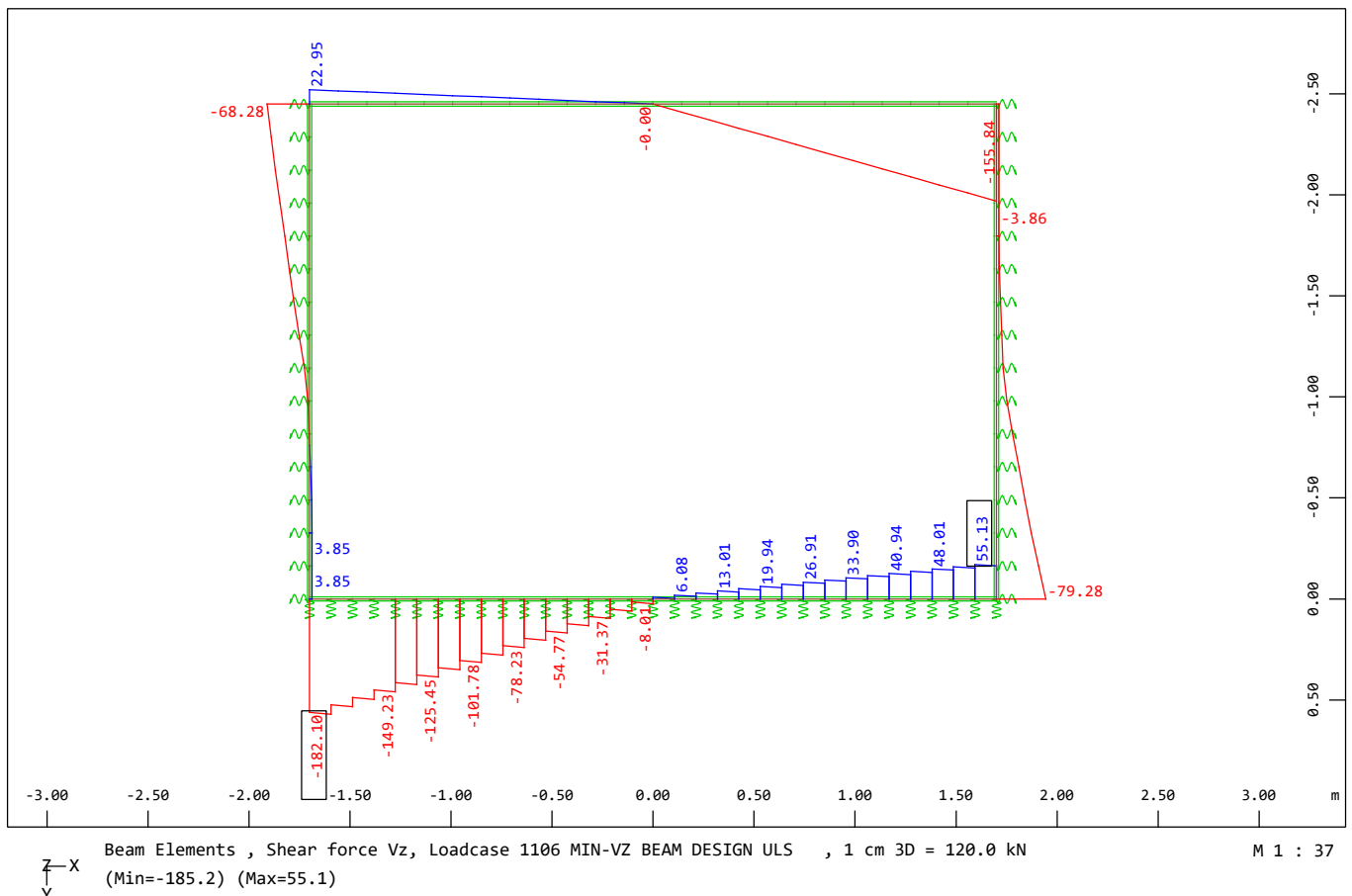
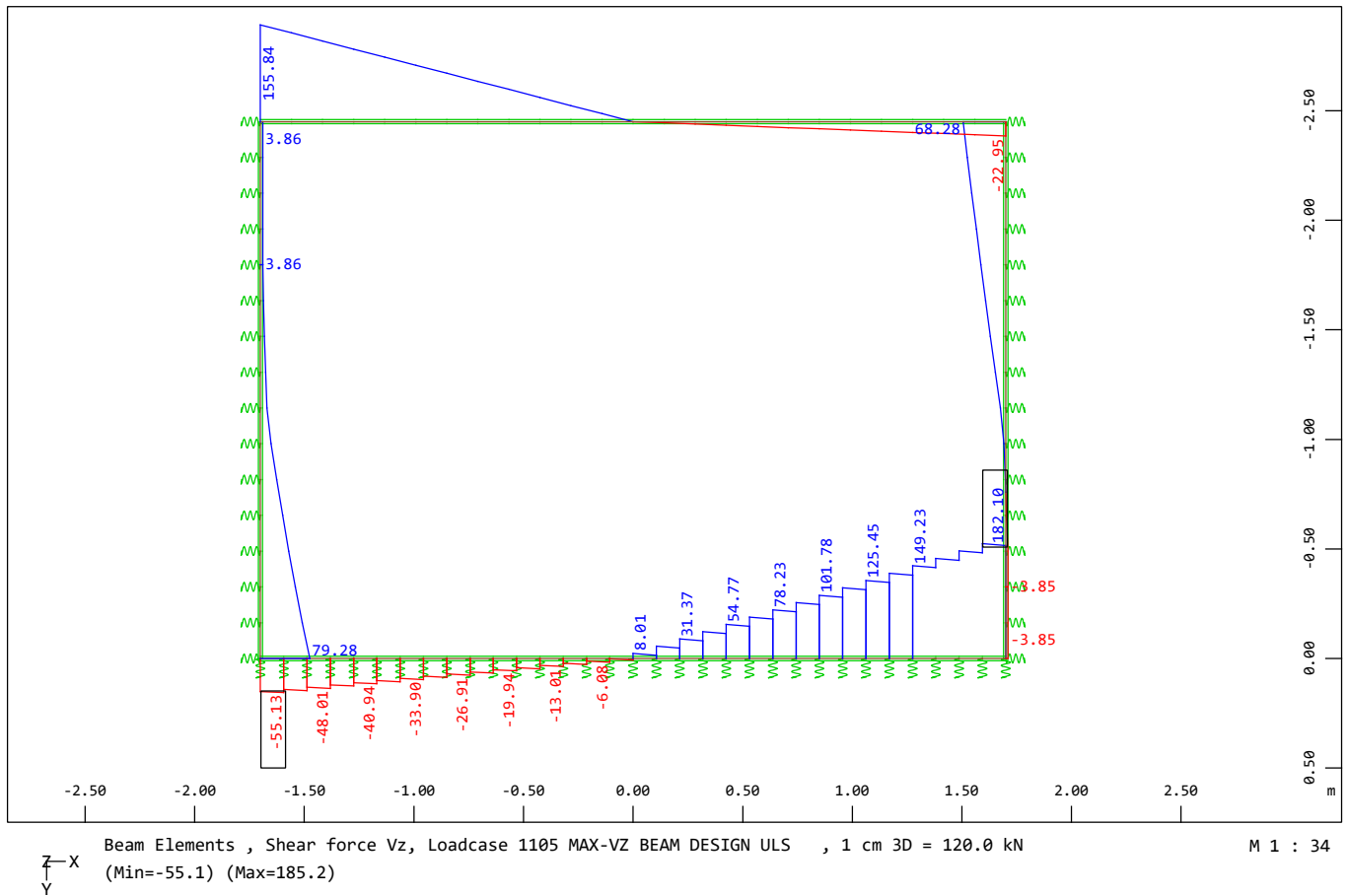
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΟΝ ΣΥΝΔΥΑΣΜΟΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 2
 Design combination
 Resulting Load Cases type ULS fundamental combination

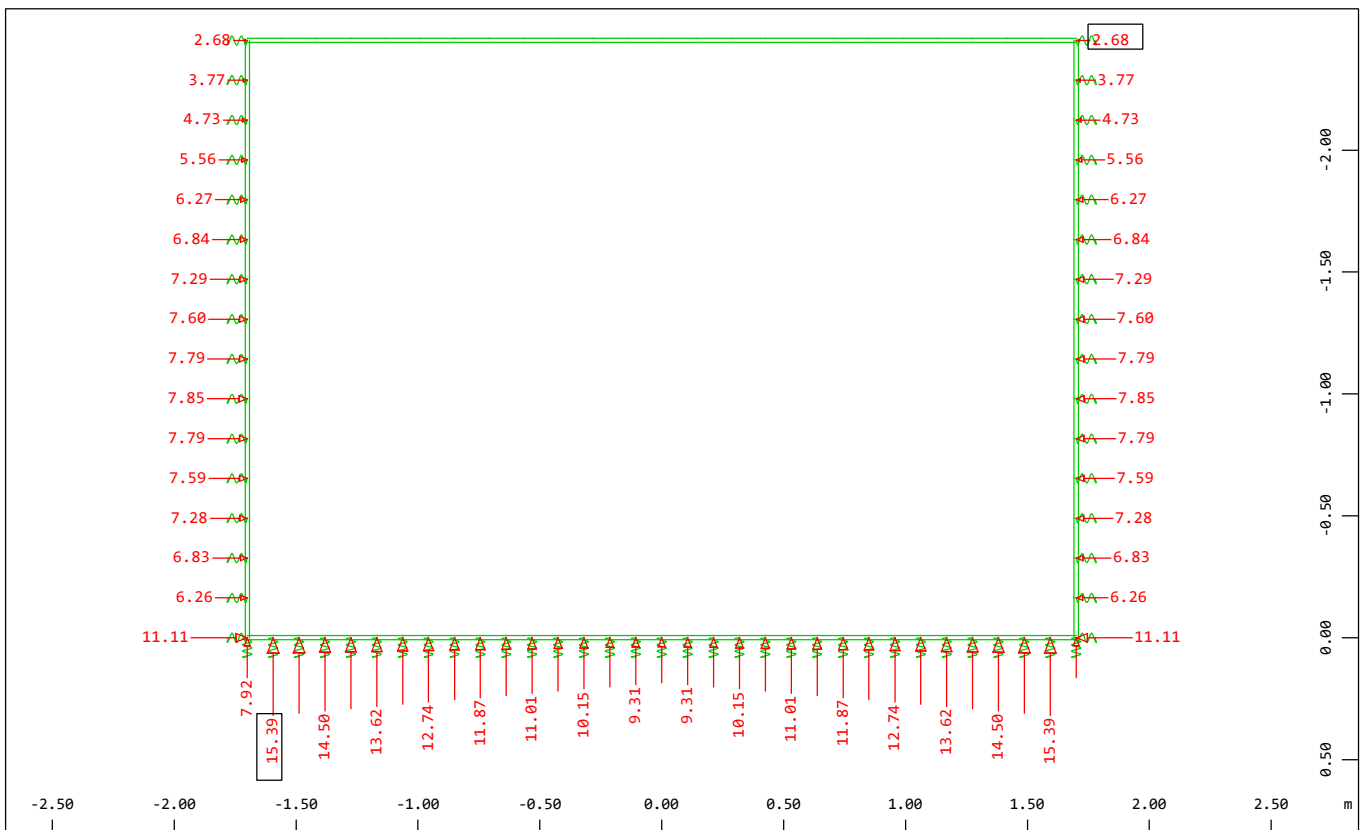
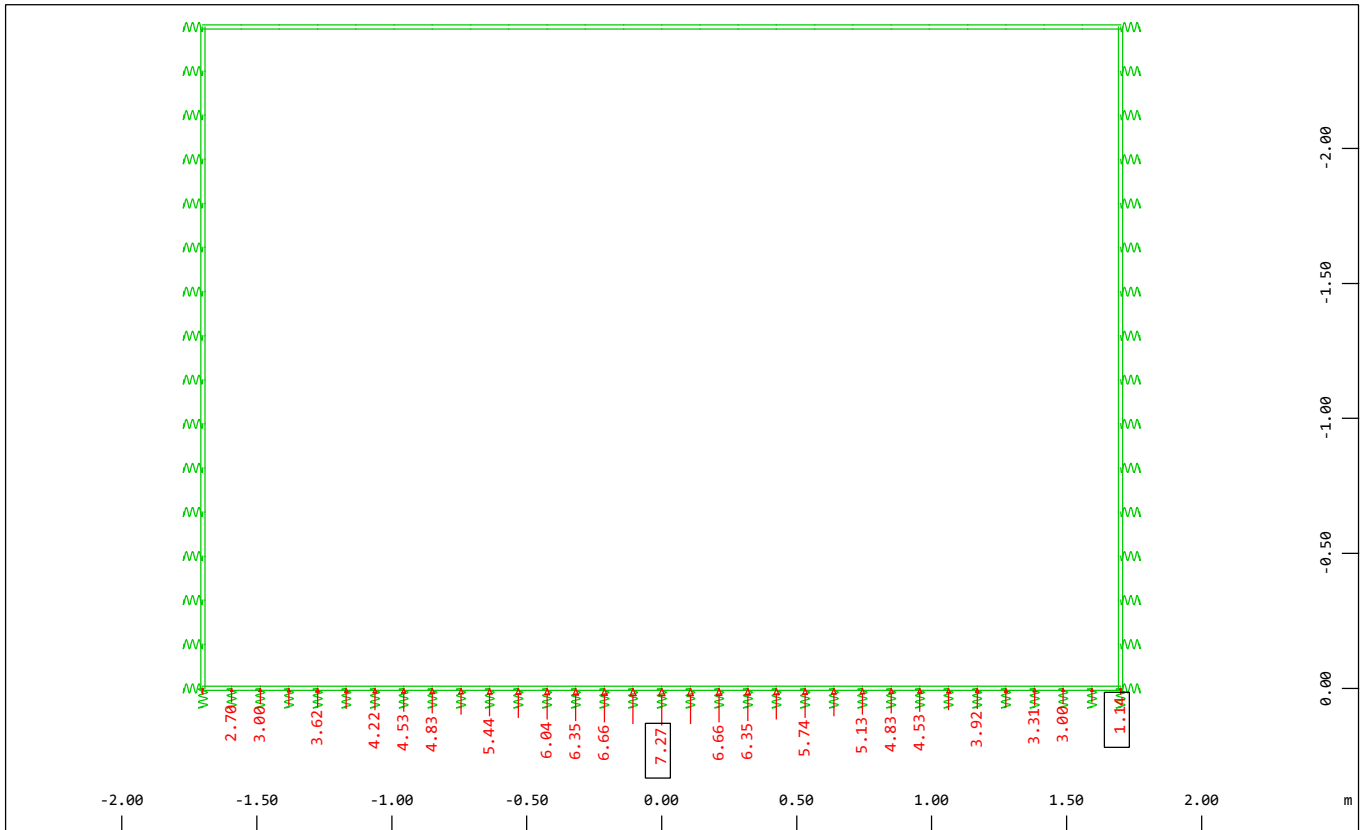
Load Case selection

Number	Fact	Type	Designation
311	1.00	AG1	G+C+R1+0.2(W+Q1)+EA1
312	1.00	AG1	G+C+R1+0.2(W+Q1)-EA1
313	1.00	AG1	G+C+R1+0.2(W+Q1)+ES1
321	1.00	AG1	G+C+R2+0.2(W+Q2)+EA2
322	1.00	AG1	G+C+R2+0.2(W+Q2)-EA2
323	1.00	AG1	G+C+R2+0.2(W+Q2)+ES2
Fact factor for load case Type type of the load case AG exclusive load permanent			

Generated Load Cases

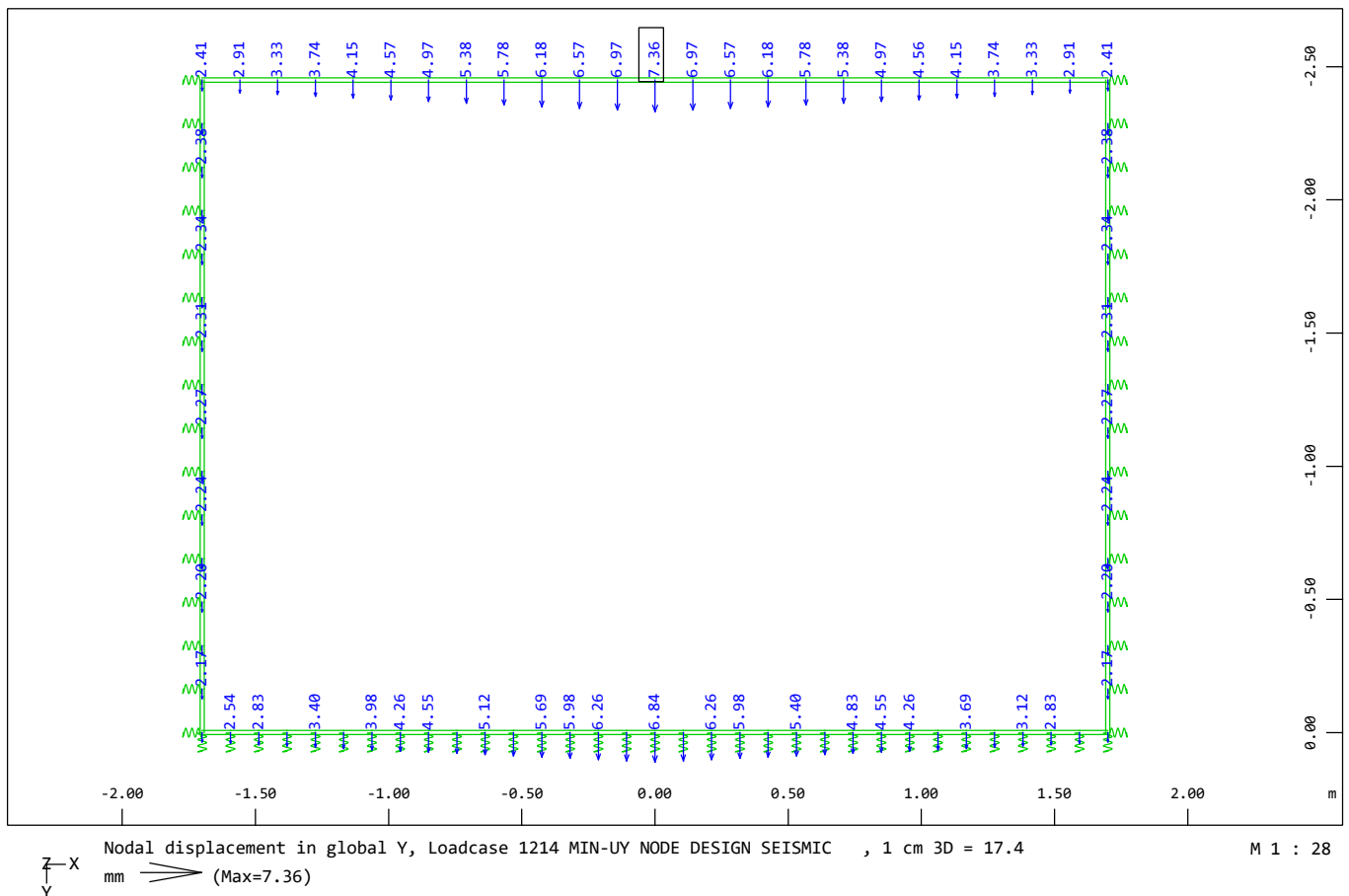
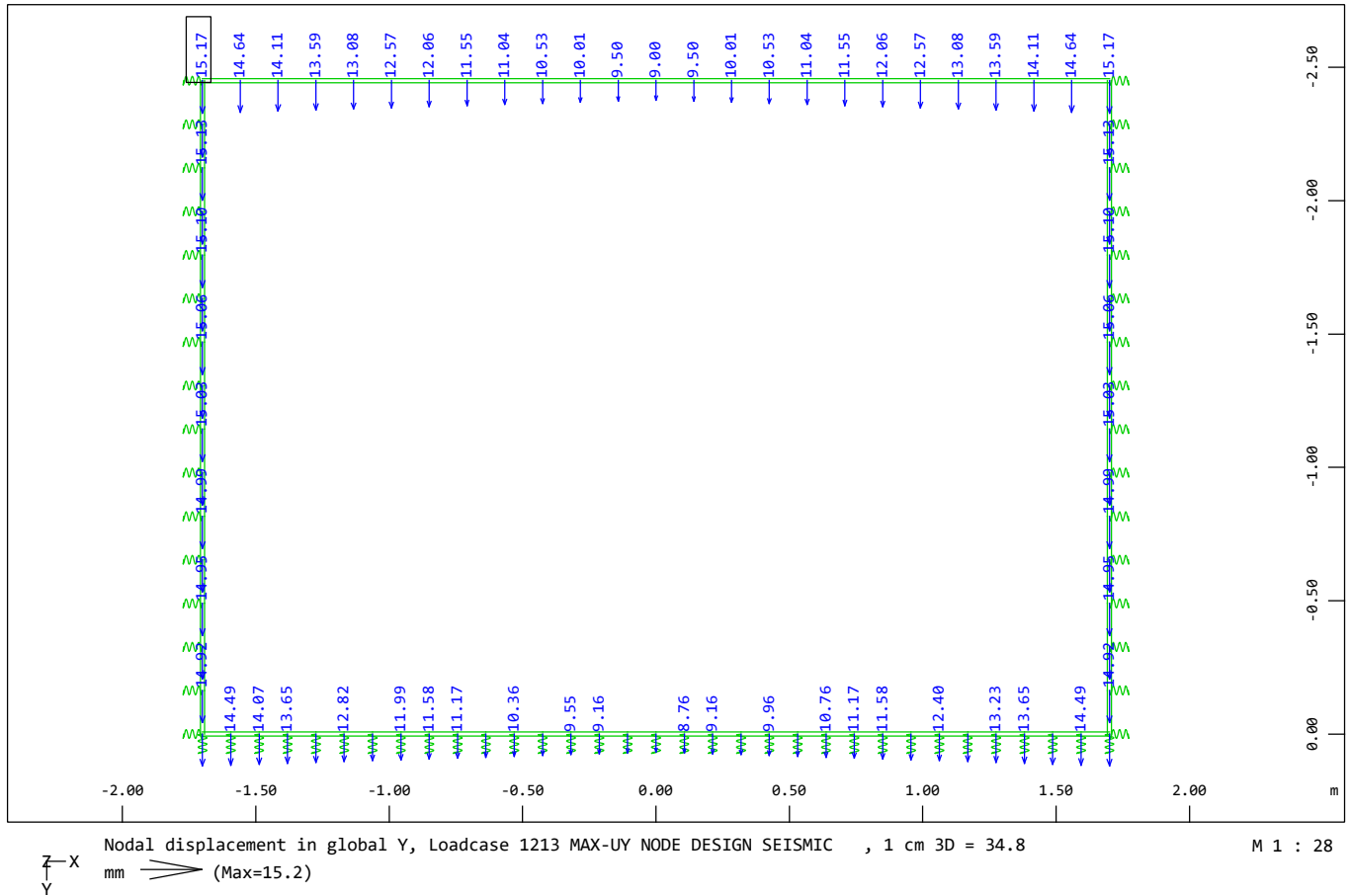
Number	Combination	Designation
1201	2	MAX-N BEAM DESIGN SEISMIC
1202	2	MIN-N BEAM DESIGN SEISMIC
1203	2	MAX-MY BEAM DESIGN SEISMIC
1204	2	MIN-MY BEAM DESIGN SEISMIC
1205	2	MAX-VZ BEAM DESIGN SEISMIC
1206	2	MIN-VZ BEAM DESIGN SEISMIC
1211	2	MAX-UX NODE DESIGN SEISMIC
1212	2	MIN-UX NODE DESIGN SEISMIC
1213	2	MAX-UY NODE DESIGN SEISMIC
1214	2	MIN-UY NODE DESIGN SEISMIC
1221	2	MAX-P SPRI DESIGN SEISMIC
1222	2	MIN-P SPRI DESIGN SEISMIC

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

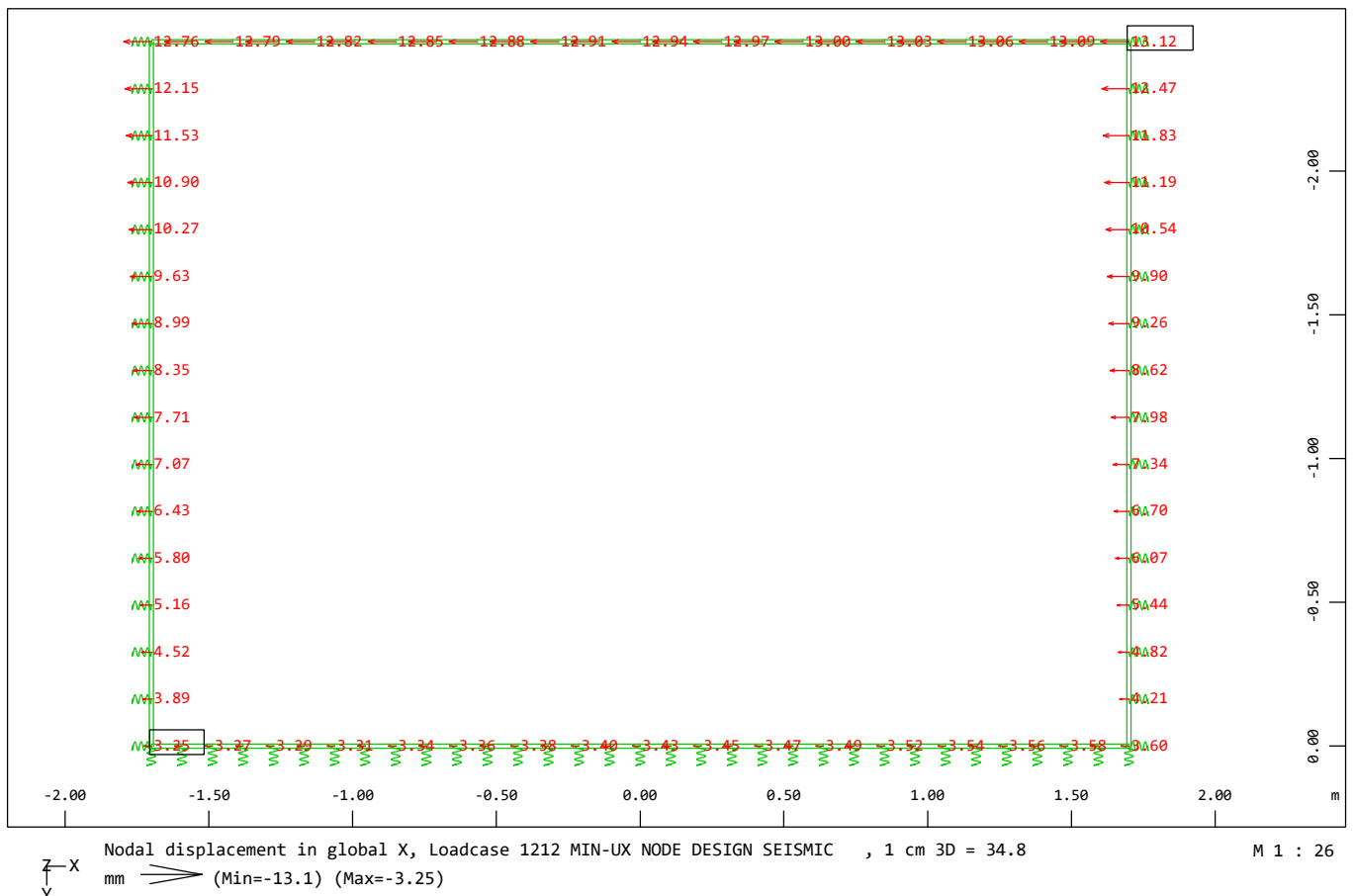
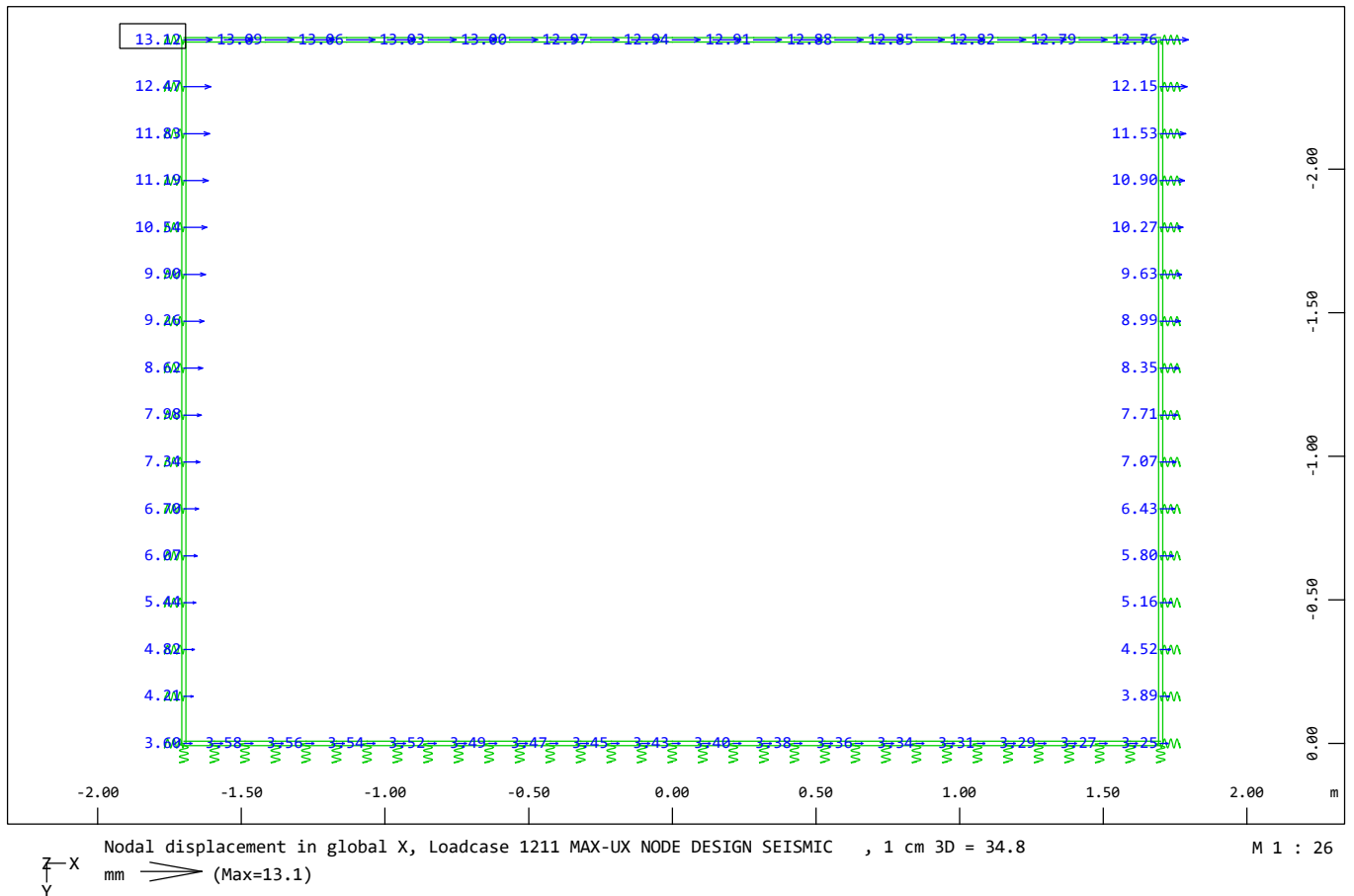


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

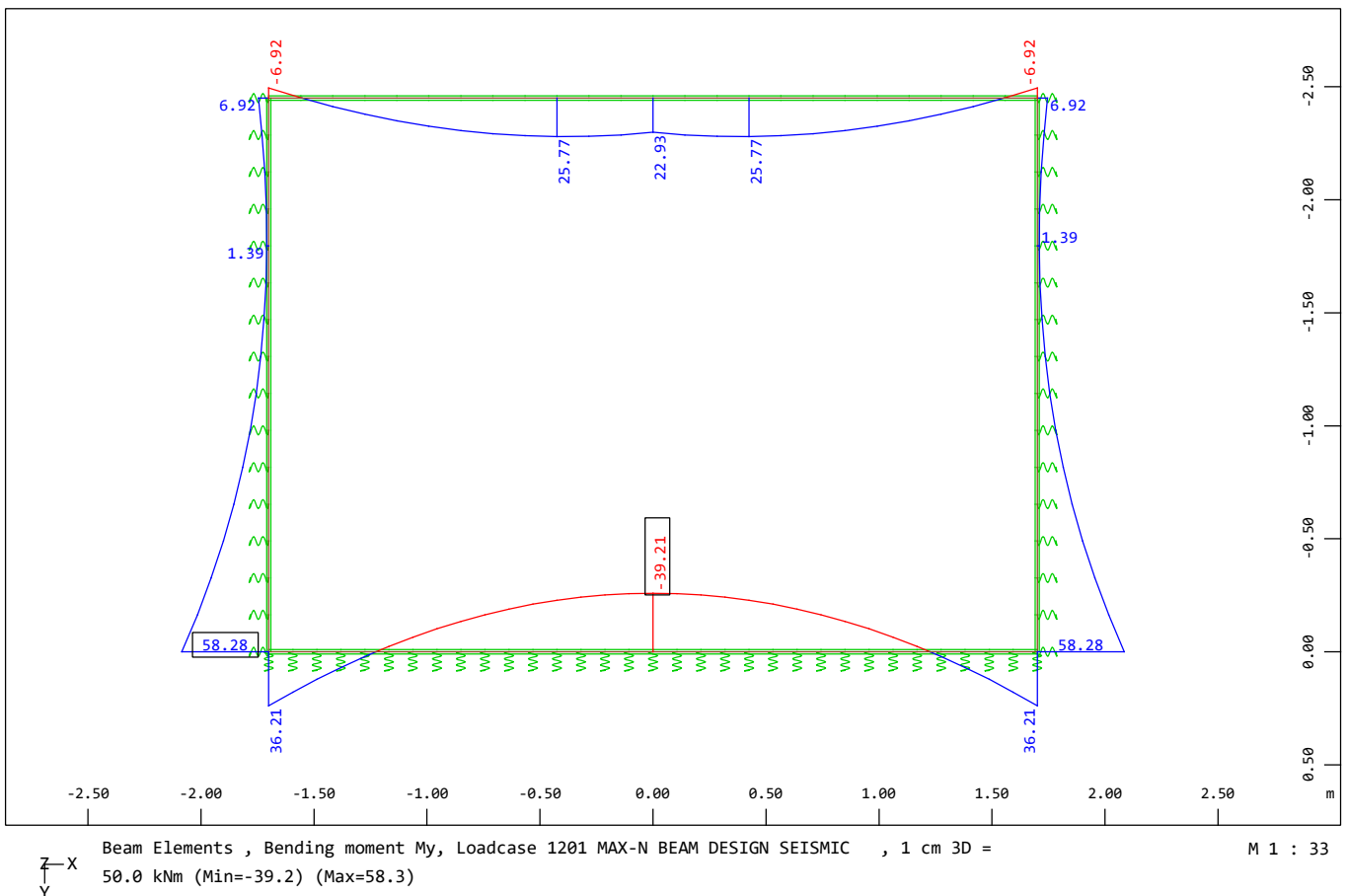
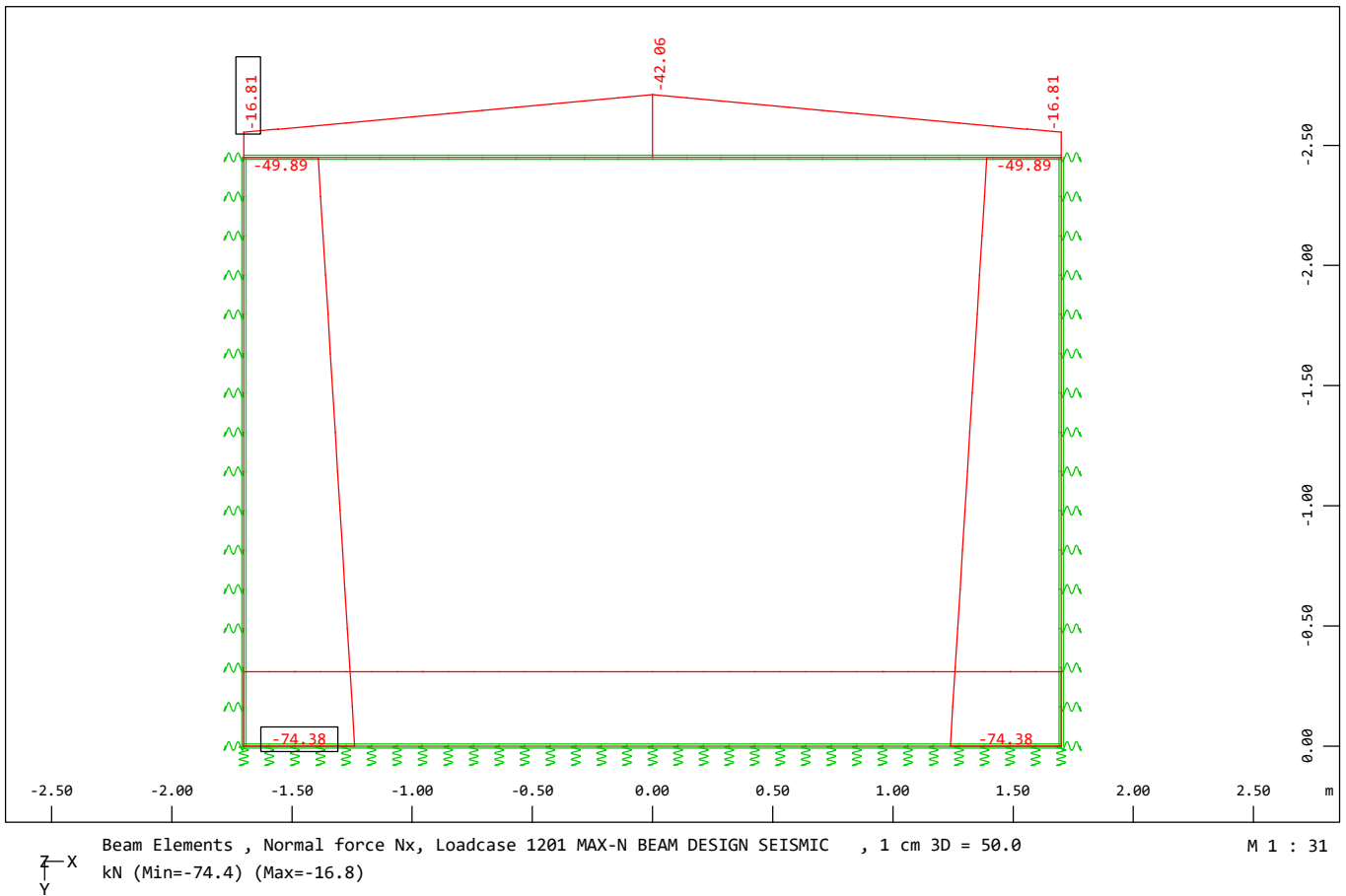
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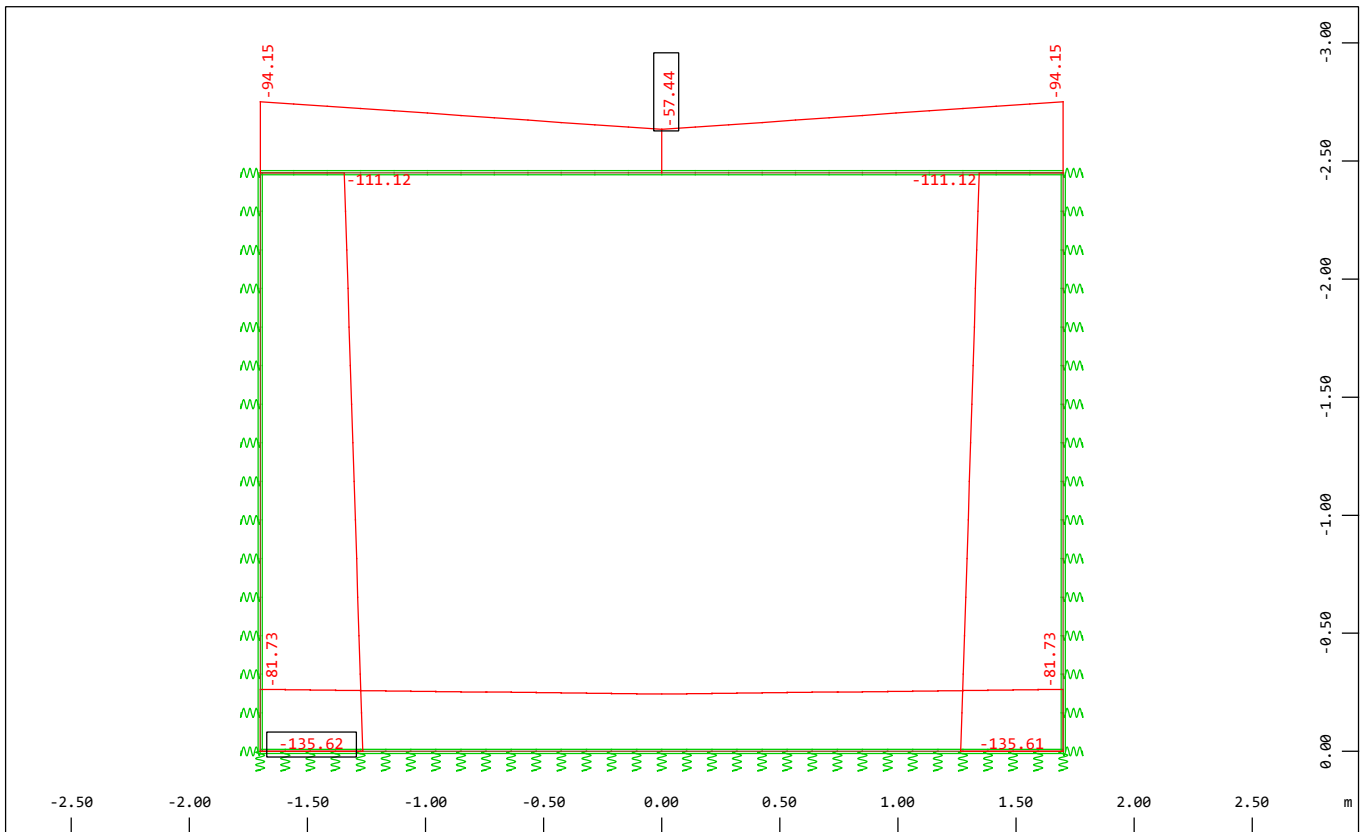
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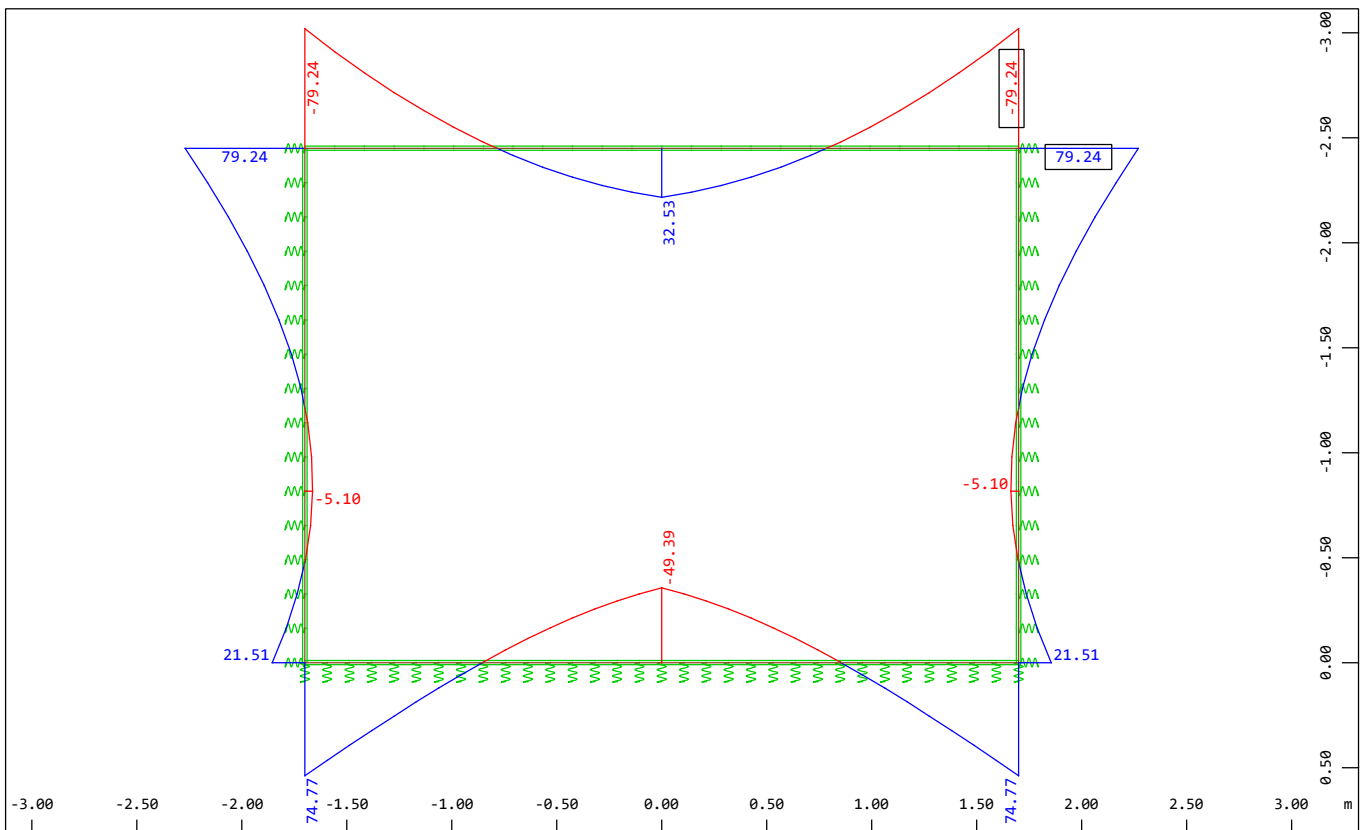
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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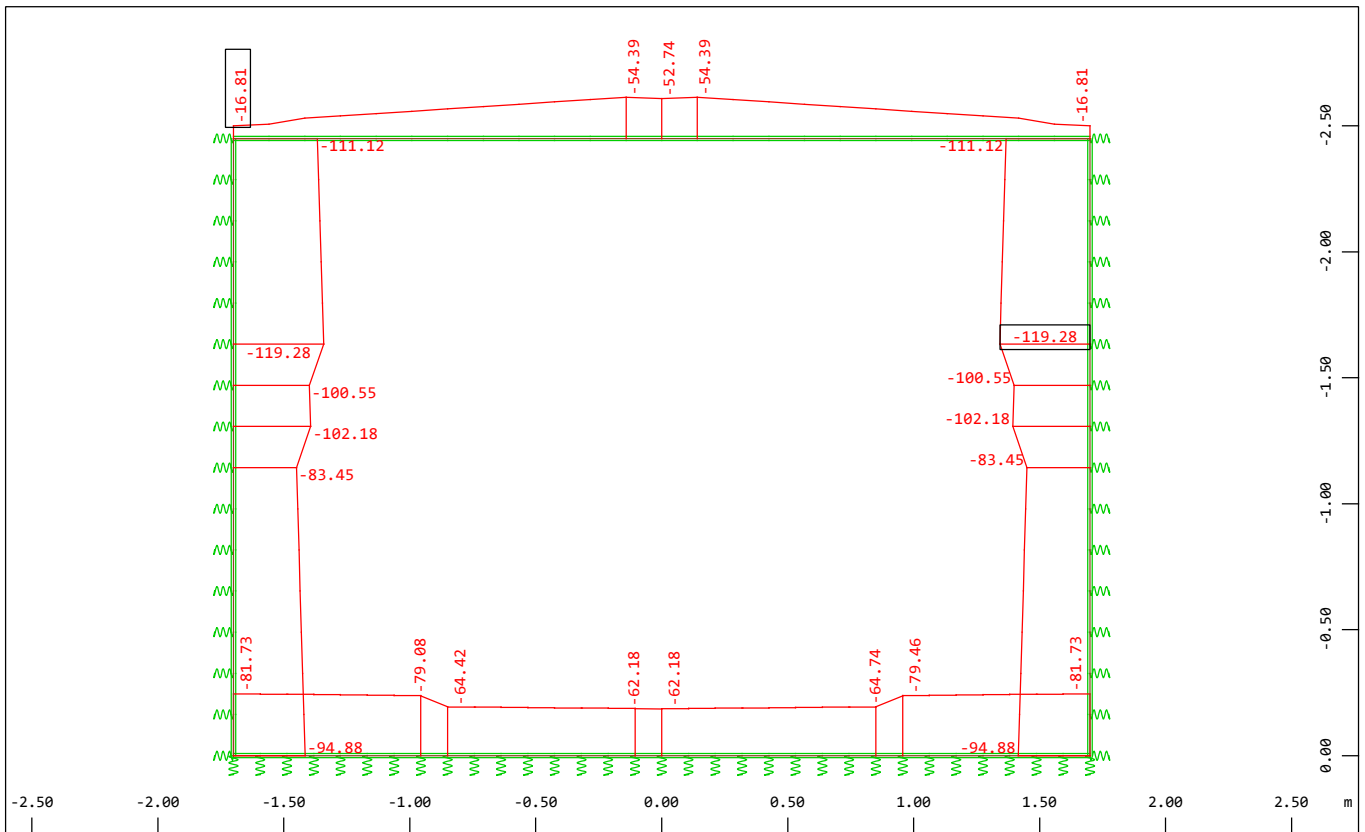


Beam Elements , Normal force N_x , Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 32
100.0 kN (Min=-135.6) (Max=-57.4)



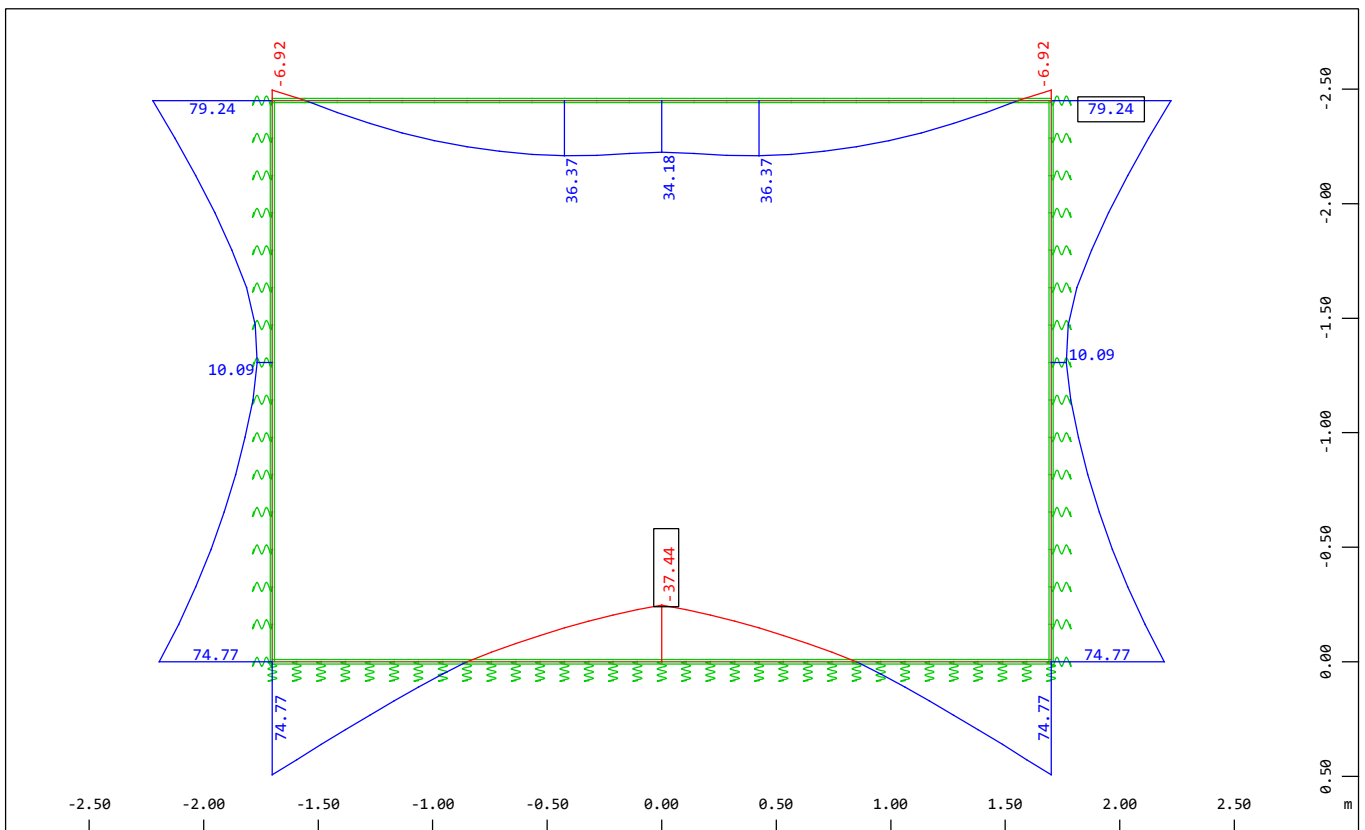
Beam Elements , Bending moment M_y , Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 36
50.0 kNm (Min=-79.2) (Max=79.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



Beam Elements , Normal force Nx, Loadcase 1203 MAX-MY BEAM DESIGN SEISMIC , 1 cm 3D =
100.0 kN (Min=-119.3) (Max=-16.8)

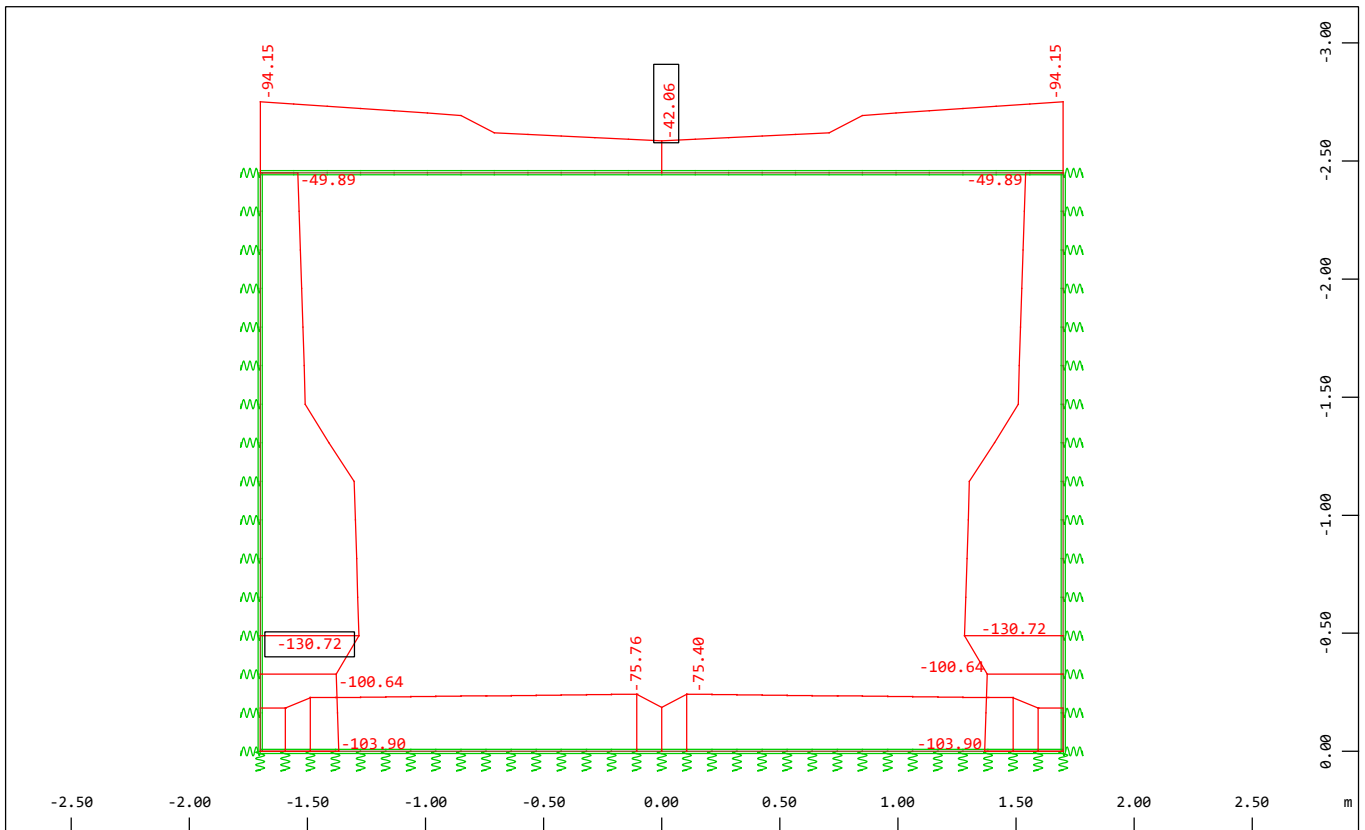
M 1 : 30



Beam Elements , Bending moment My, Loadcase 1203 MAX-MY BEAM DESIGN SEISMIC , 1 cm 3D =
50.0 kNm (Min=-37.4) (Max=79.2)

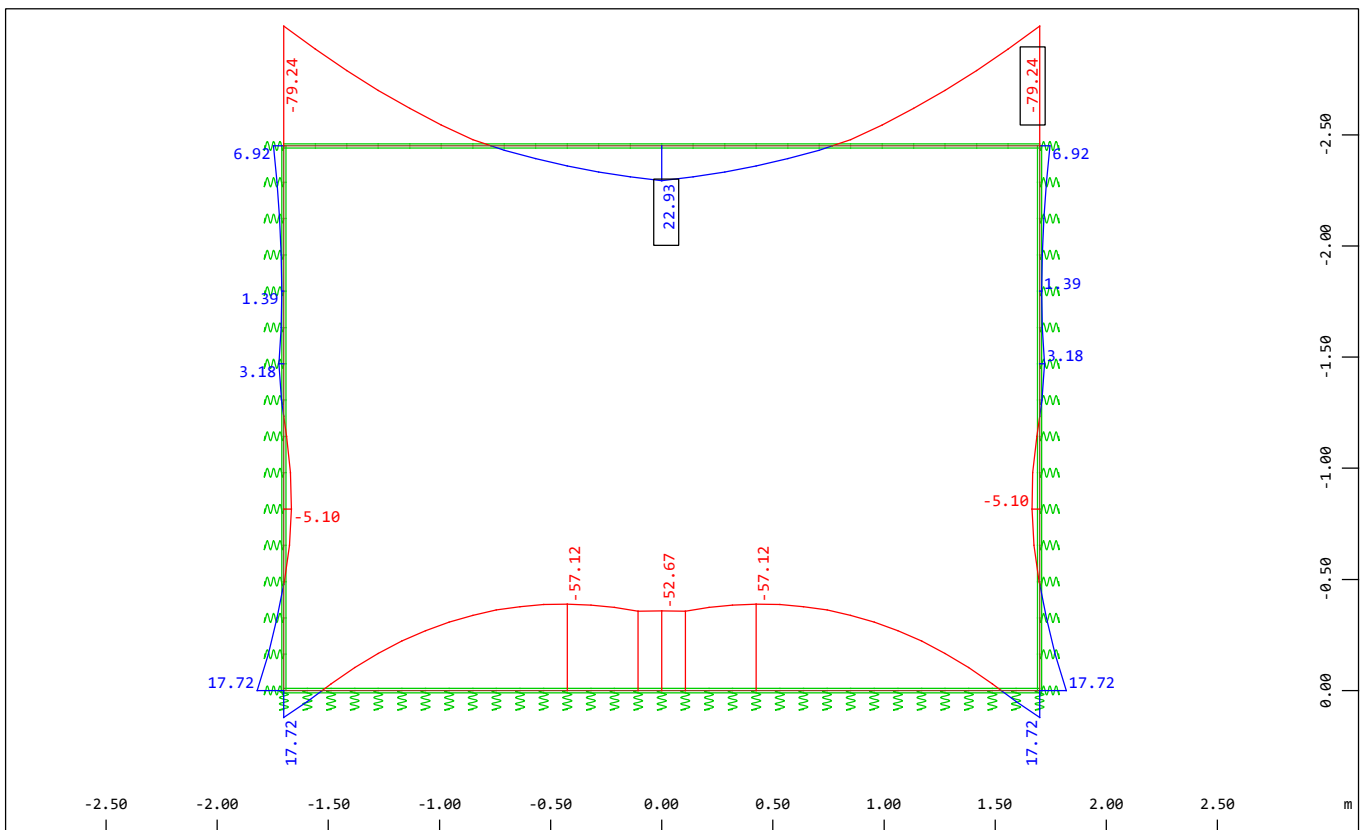
M 1 : 33

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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Beam Elements , Normal force Nx, Loadcase 1204 MIN-MY BEAM DESIGN SEISMIC , 1 cm 3D =
100.0 kN (Min=-130.7) (Max=-42.1)

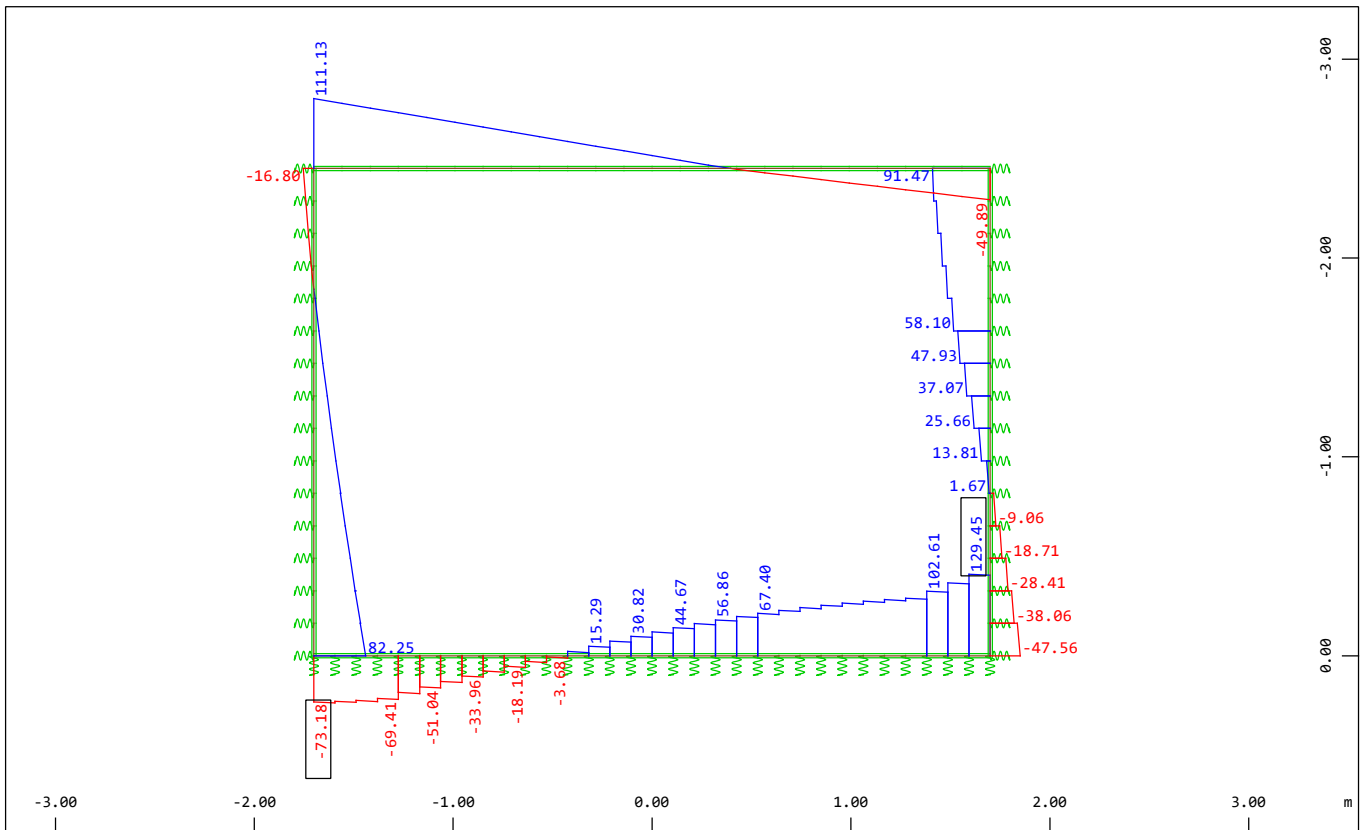
M 1 : 32



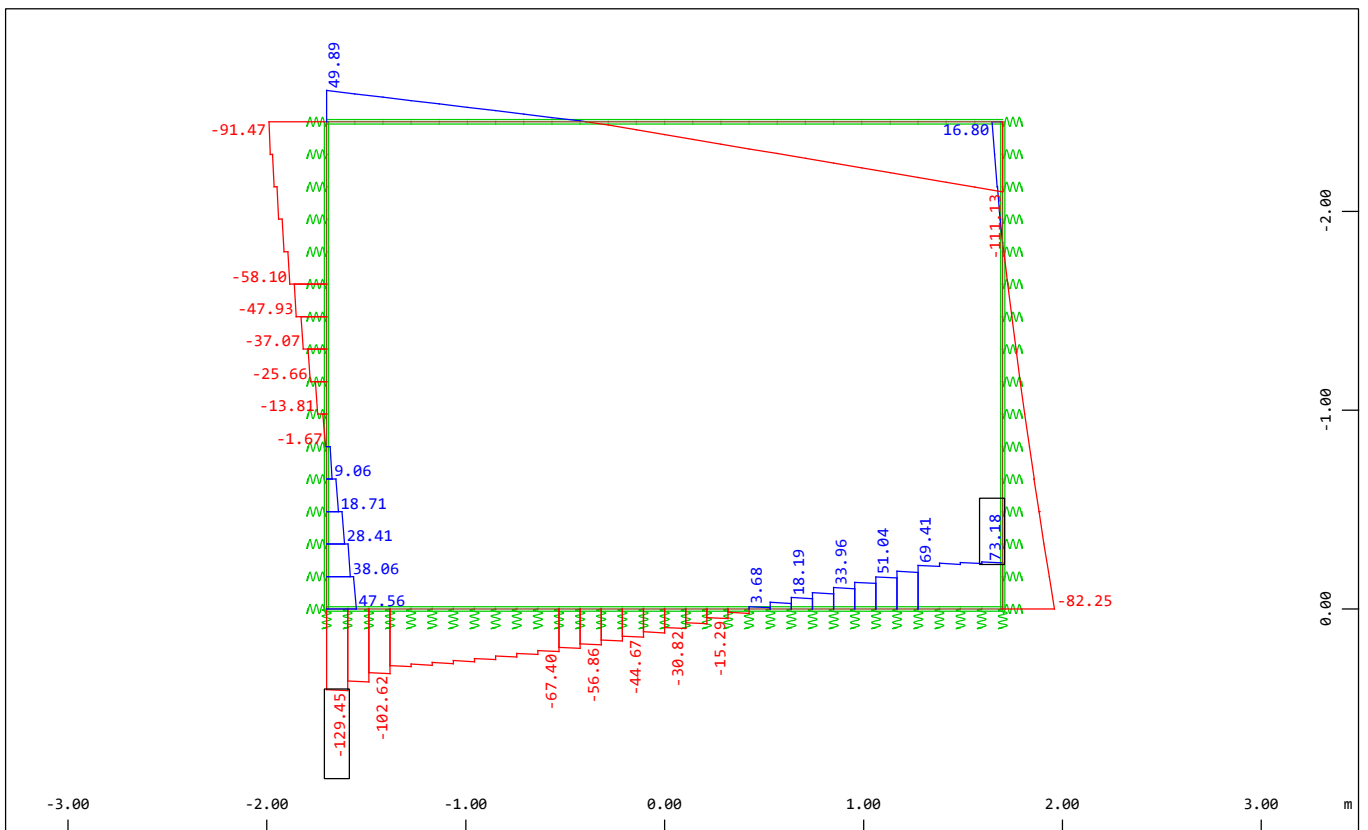
Beam Elements , Bending moment My, Loadcase 1204 MIN-MY BEAM DESIGN SEISMIC , 1 cm 3D =
50.0 kNm (Min=-79.2) (Max=22.9)

M 1 : 34

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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Beam Elements , Shear force Vz, Loadcase 1205 MAX-VZ BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 38
120.0 kN (Min=-74.9) (Max=129.4)



Beam Elements , Shear force Vz, Loadcase 1206 MIN-VZ BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 38
120.0 kN (Min=-129.4) (Max=74.9)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 3
 Design combination
 Resulting Load Cases type ULS fundamental combination

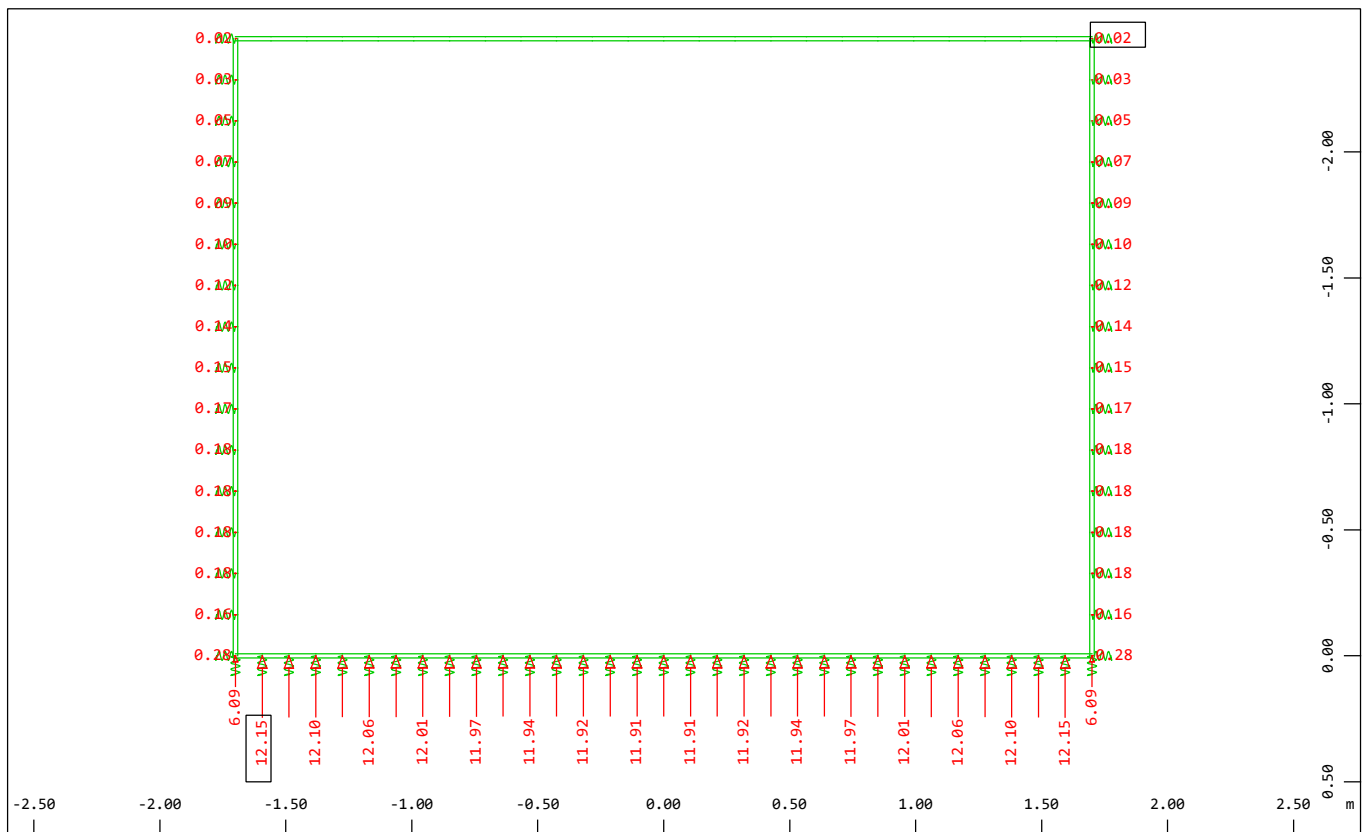
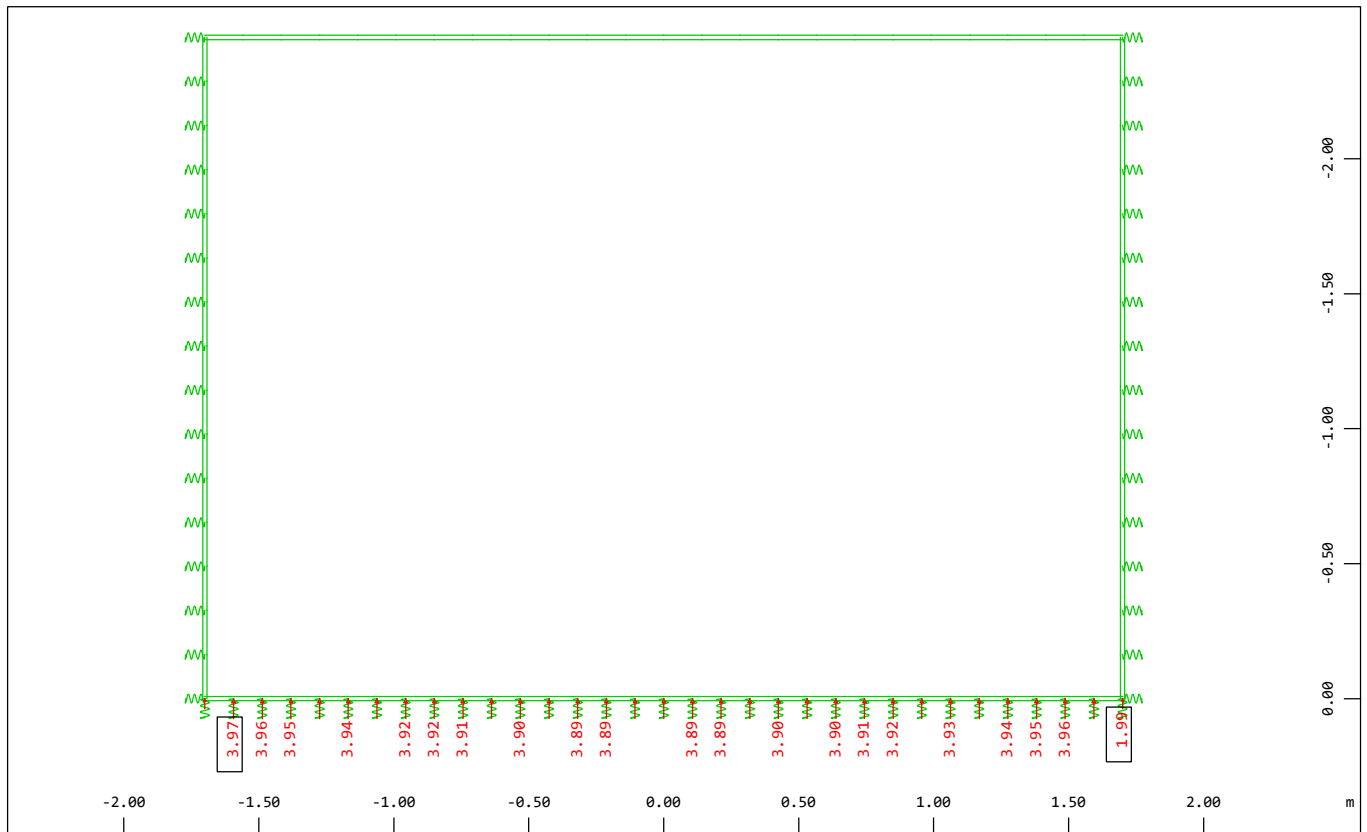
Load Case selection

Number	Fact	Type	Designation
400	1.00	AG1	G+C
411	1.00	AG1	G+C+R1
412	1.00	AG1	G+C+R1+W
413	1.00	AG1	G+C+R1+Q1
414	1.00	AG1	G+C+R1+W+Q1
415	1.00	AG1	G+C+R1+T
416	1.00	AG1	G+C+R1+T
417	1.00	AG1	G+C+R1+T
418	1.00	AG1	G+C+R1+T
421	1.00	AG1	G+C+R2
422	1.00	AG1	G+C+R2+W
423	1.00	AG1	G+C+R2+Q2
424	1.00	AG1	G+C+R2+W+Q2
425	1.00	AG1	G+C+R2+T
426	1.00	AG1	G+C+R2+T
427	1.00	AG1	G+C+R2+T
428	1.00	AG1	G+C+R2+T
Fact factor for load case Type type of the load case AG exclusive load permanent			

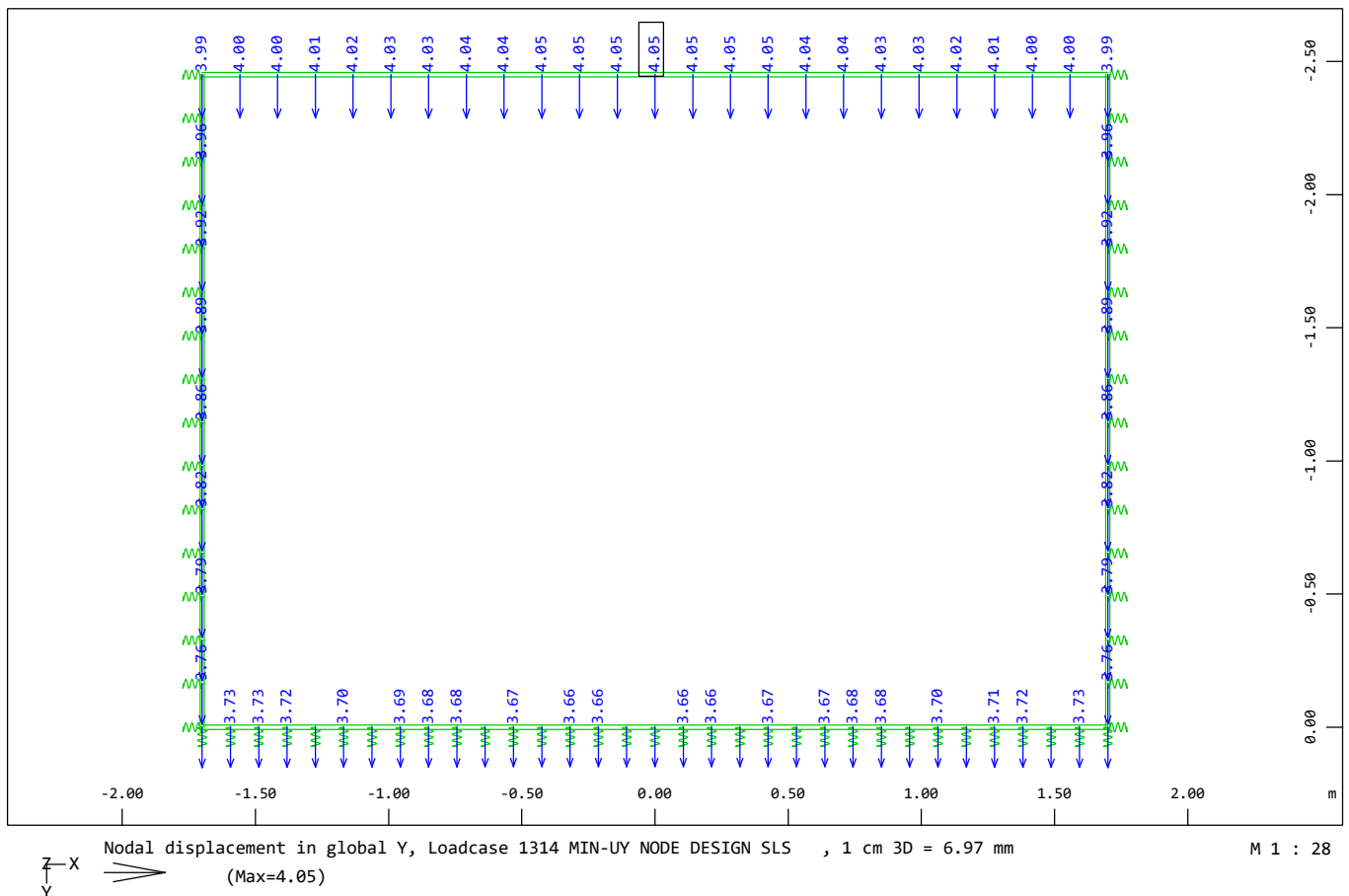
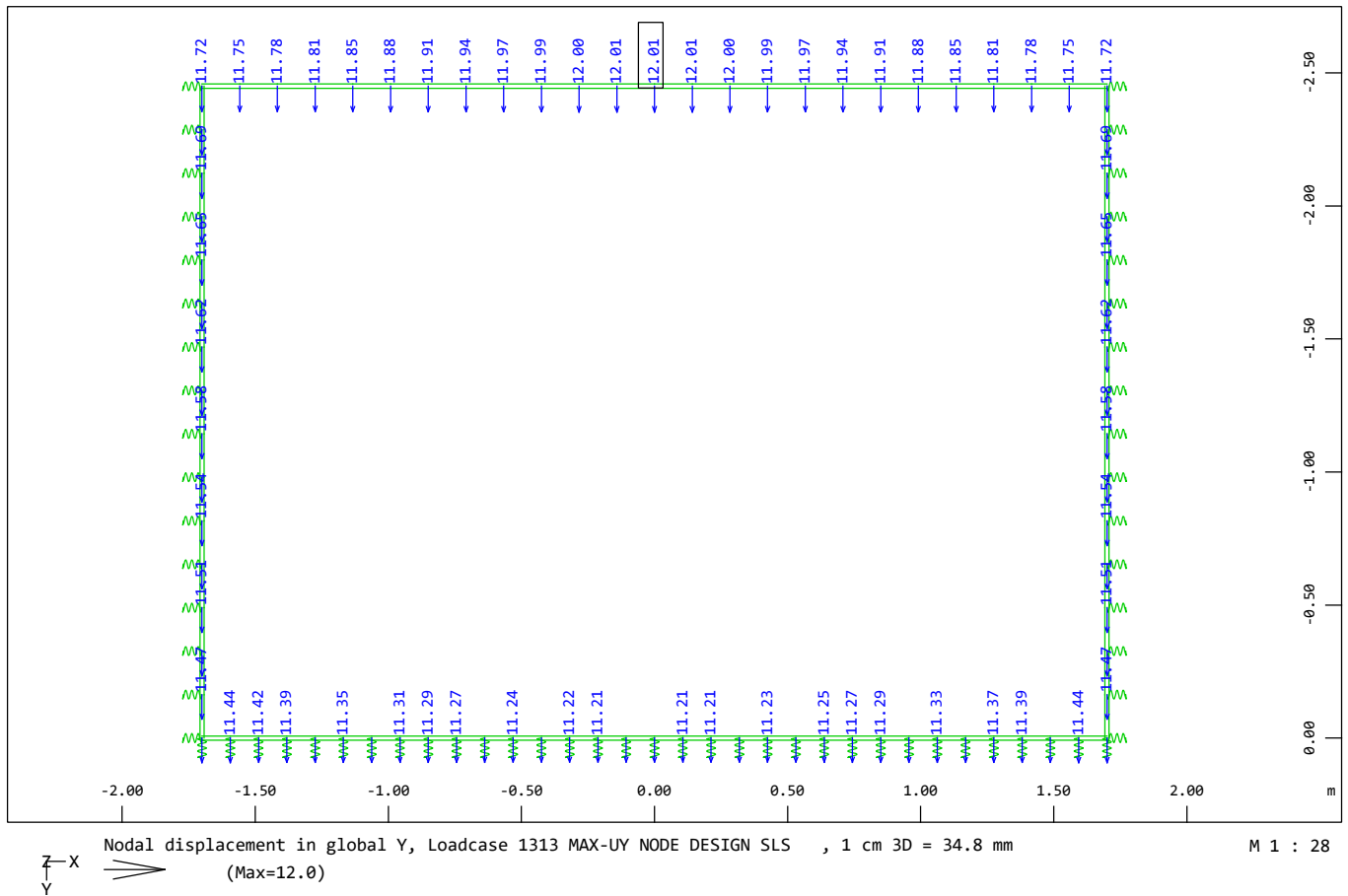
Generated Load Cases

Number	Combination	Designation
1301	3	MAX-N BEAM DESIGN SLS
1302	3	MIN-N BEAM DESIGN SLS
1303	3	MAX-MY BEAM DESIGN SLS
1304	3	MIN-MY BEAM DESIGN SLS
1305	3	MAX-VZ BEAM DESIGN SLS
1306	3	MIN-VZ BEAM DESIGN SLS
1311	3	MAX-UX NODE DESIGN SLS
1312	3	MIN-UX NODE DESIGN SLS
1313	3	MAX-UY NODE DESIGN SLS
1314	3	MIN-UY NODE DESIGN SLS
1321	3	MAX-P SPRI DESIGN SLS
1322	3	MIN-P SPRI DESIGN SLS

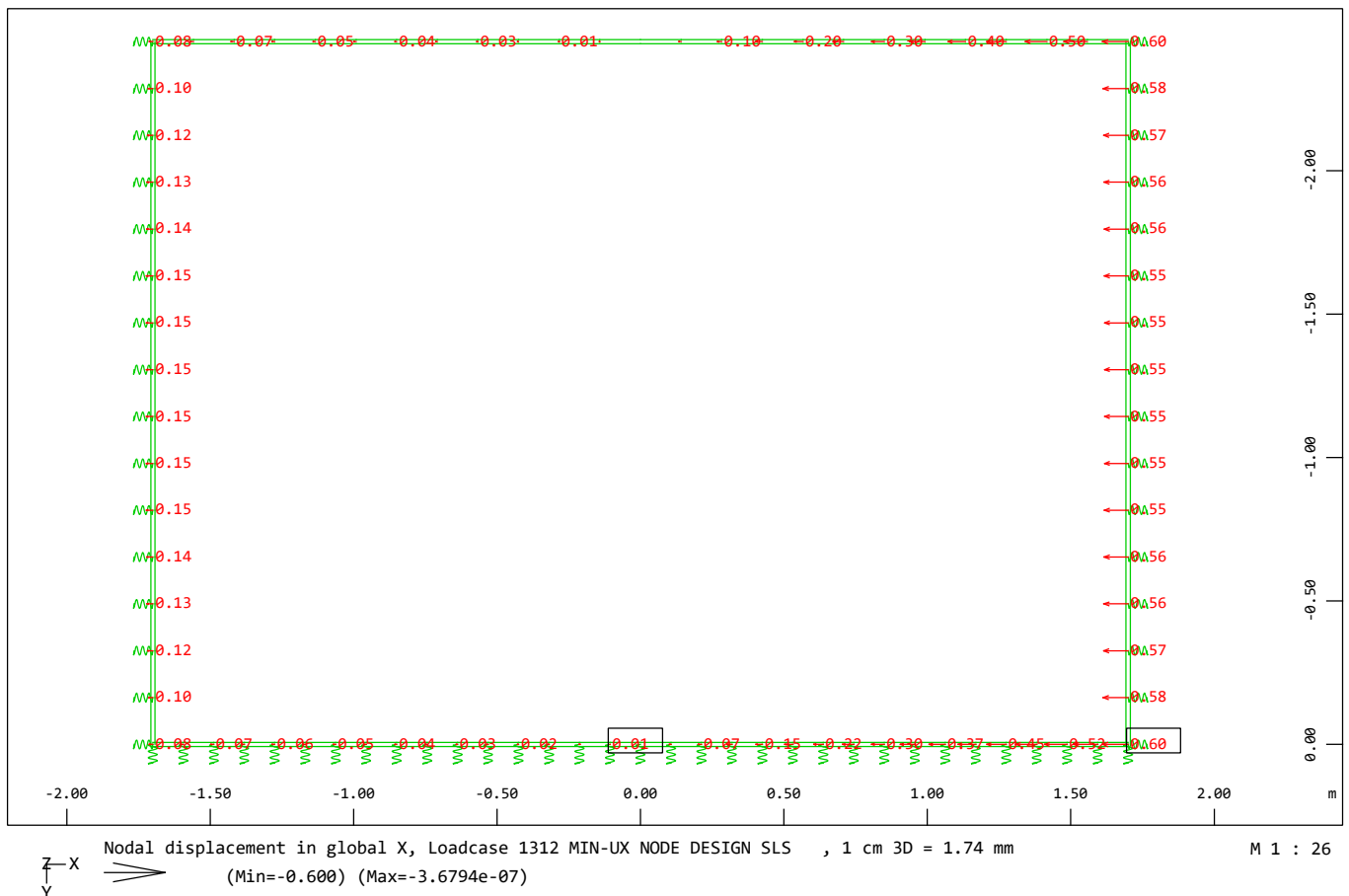
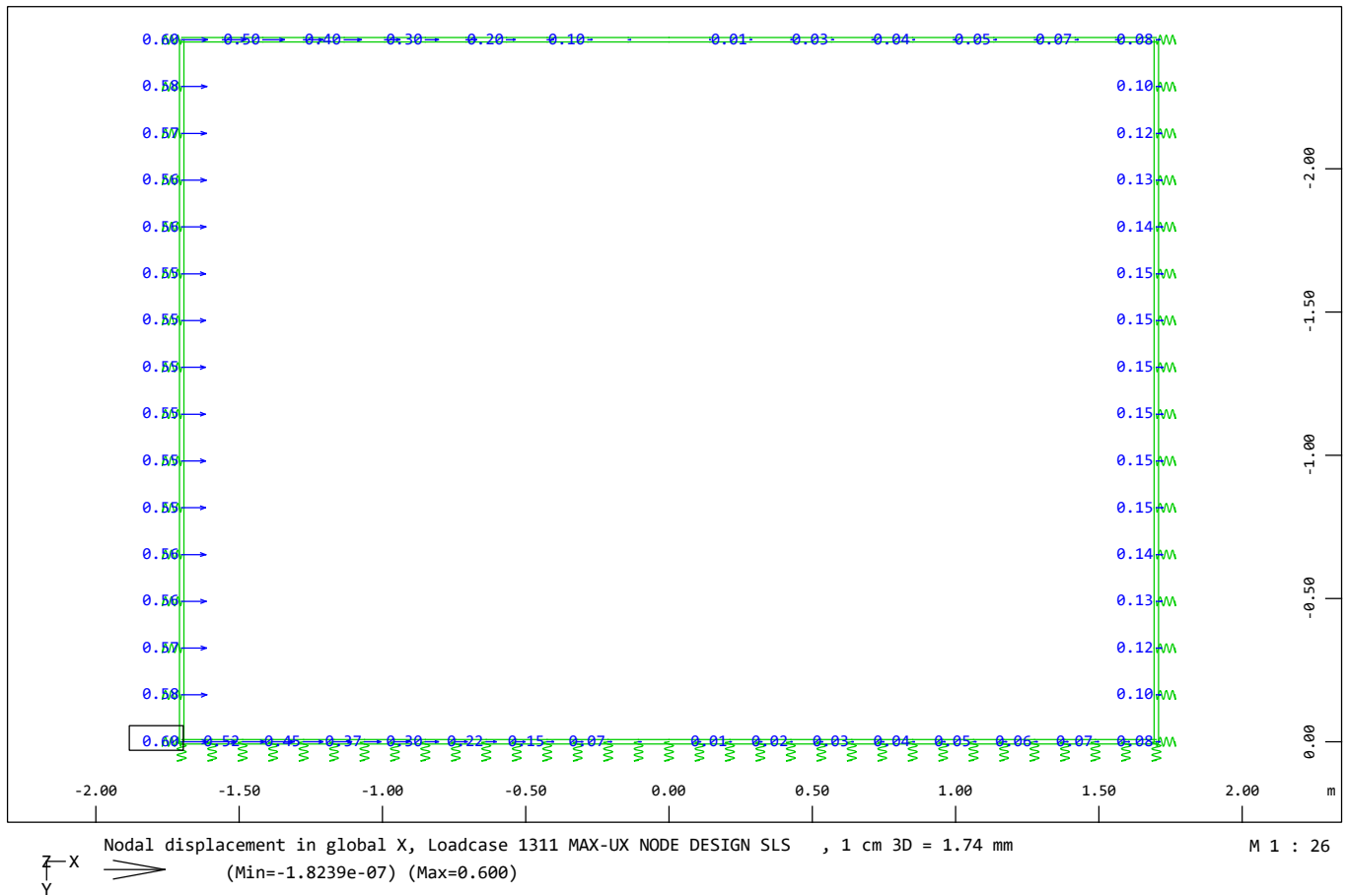
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- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ



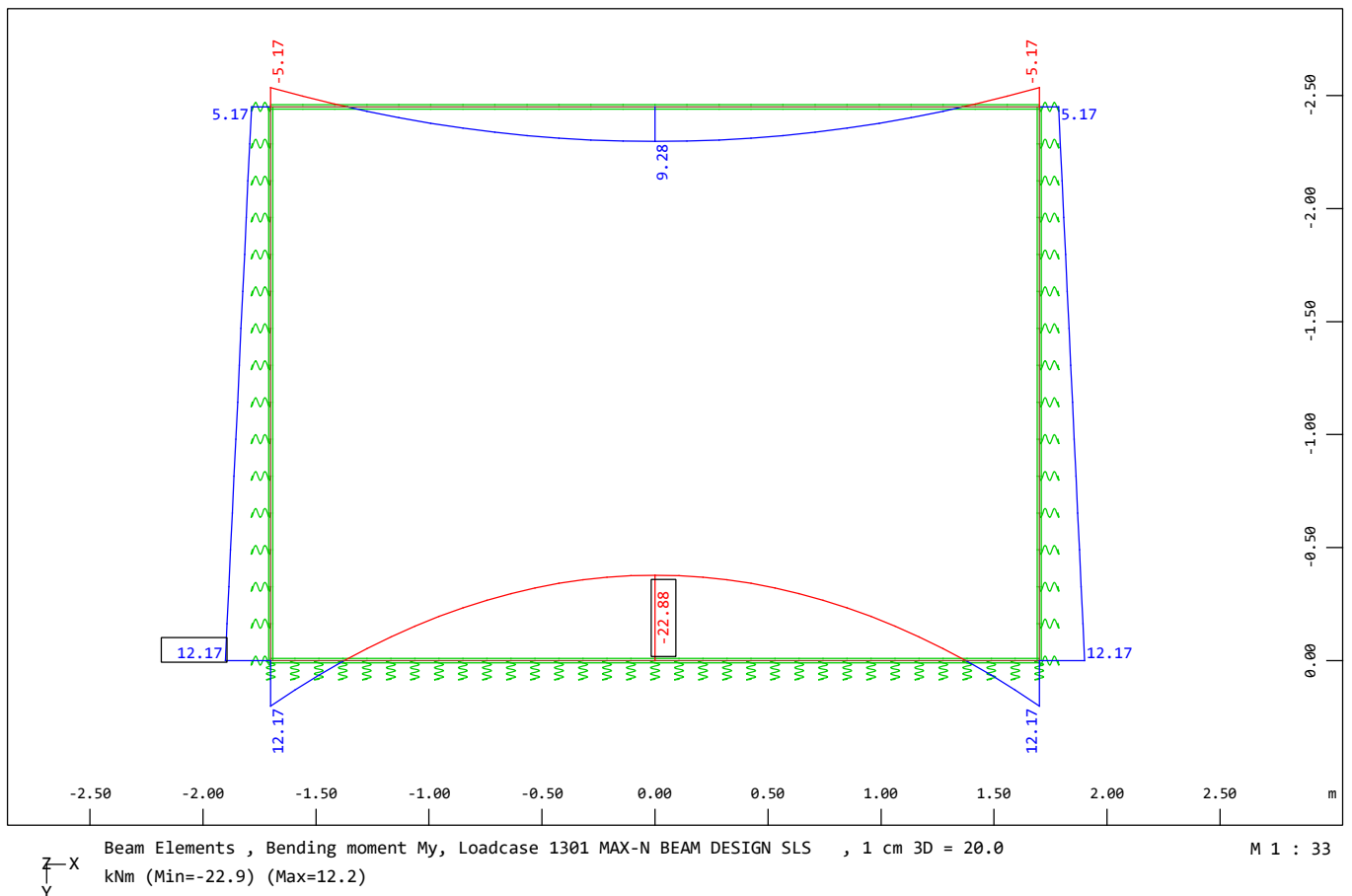
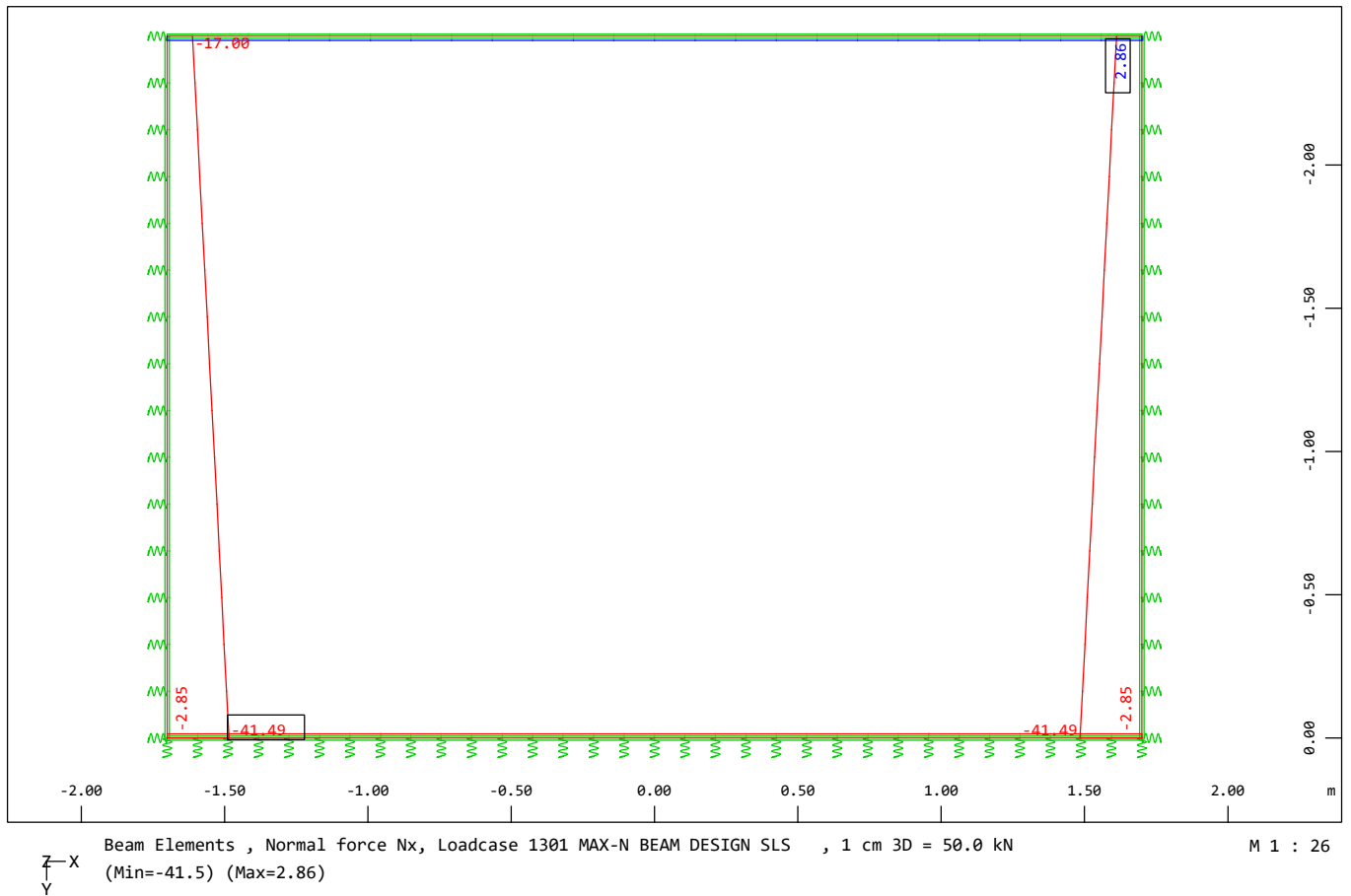
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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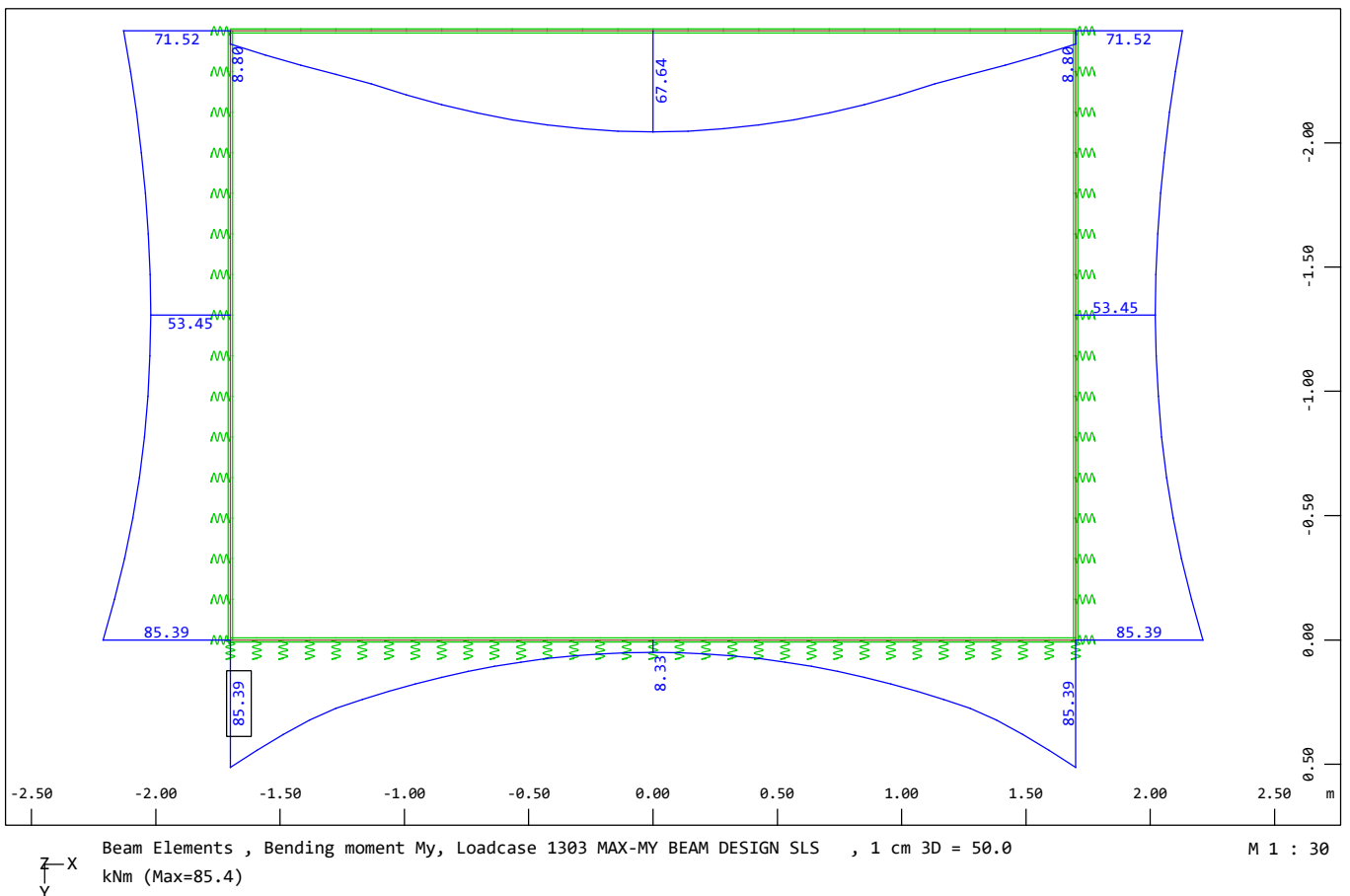
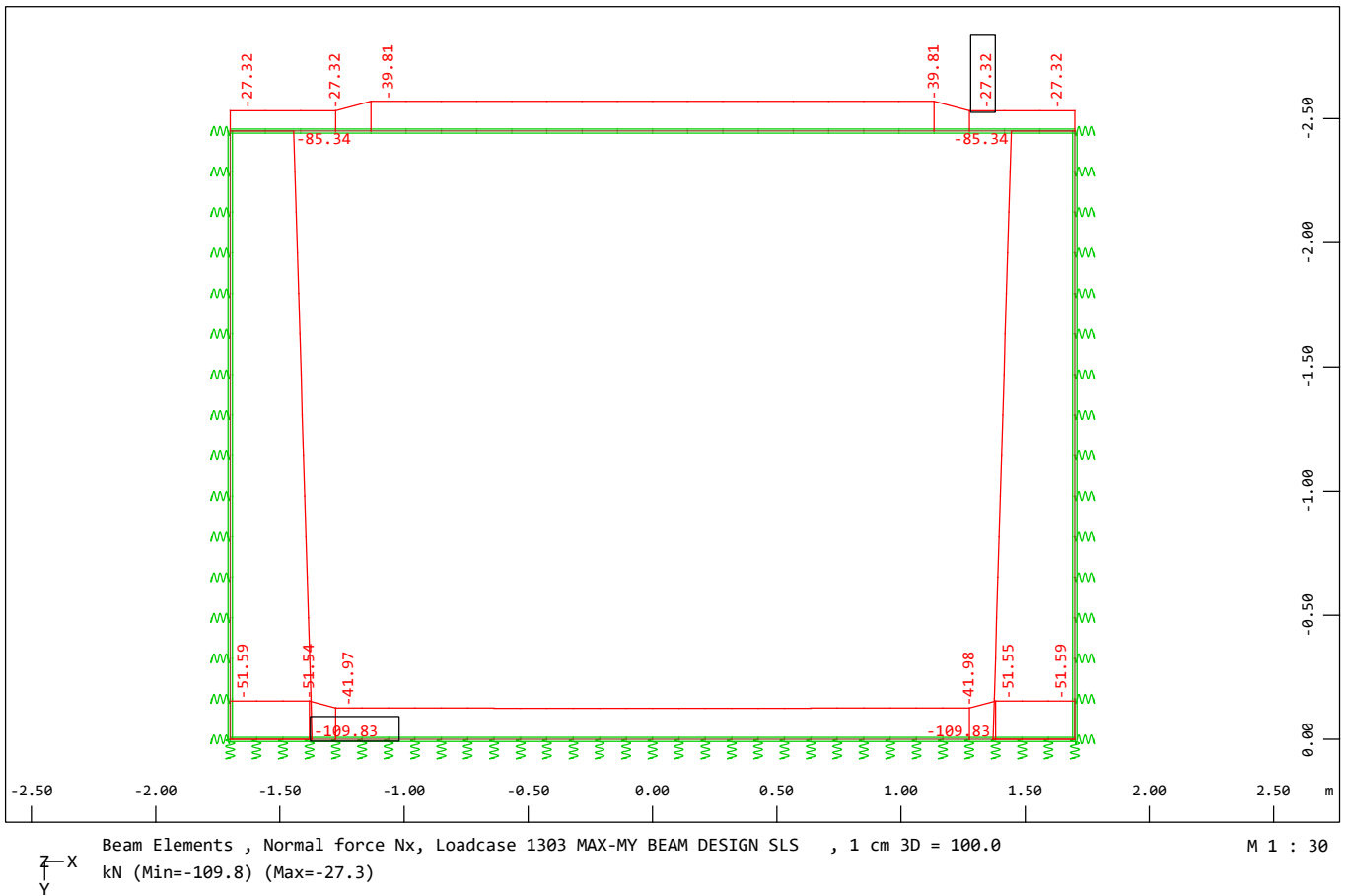
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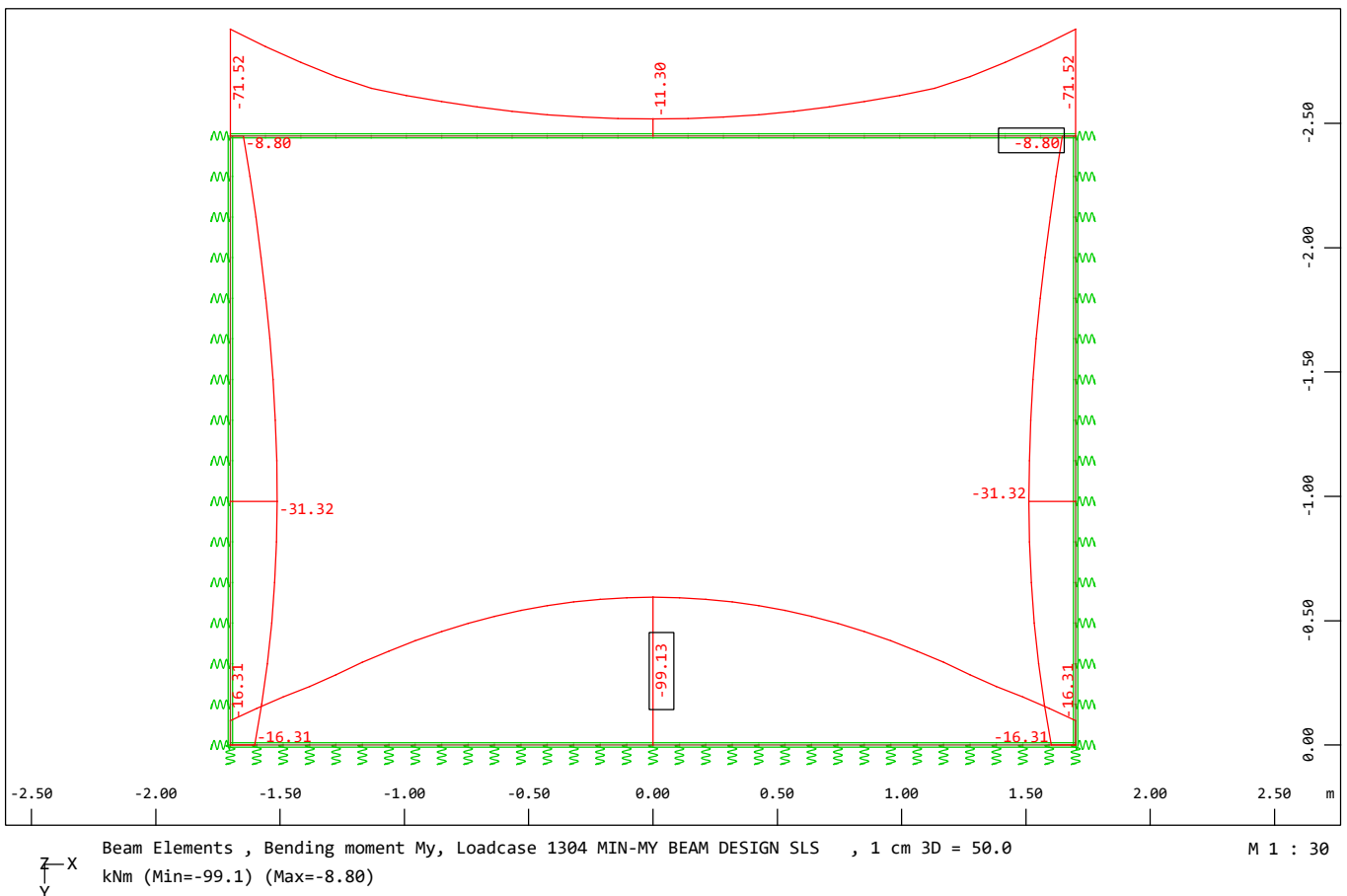
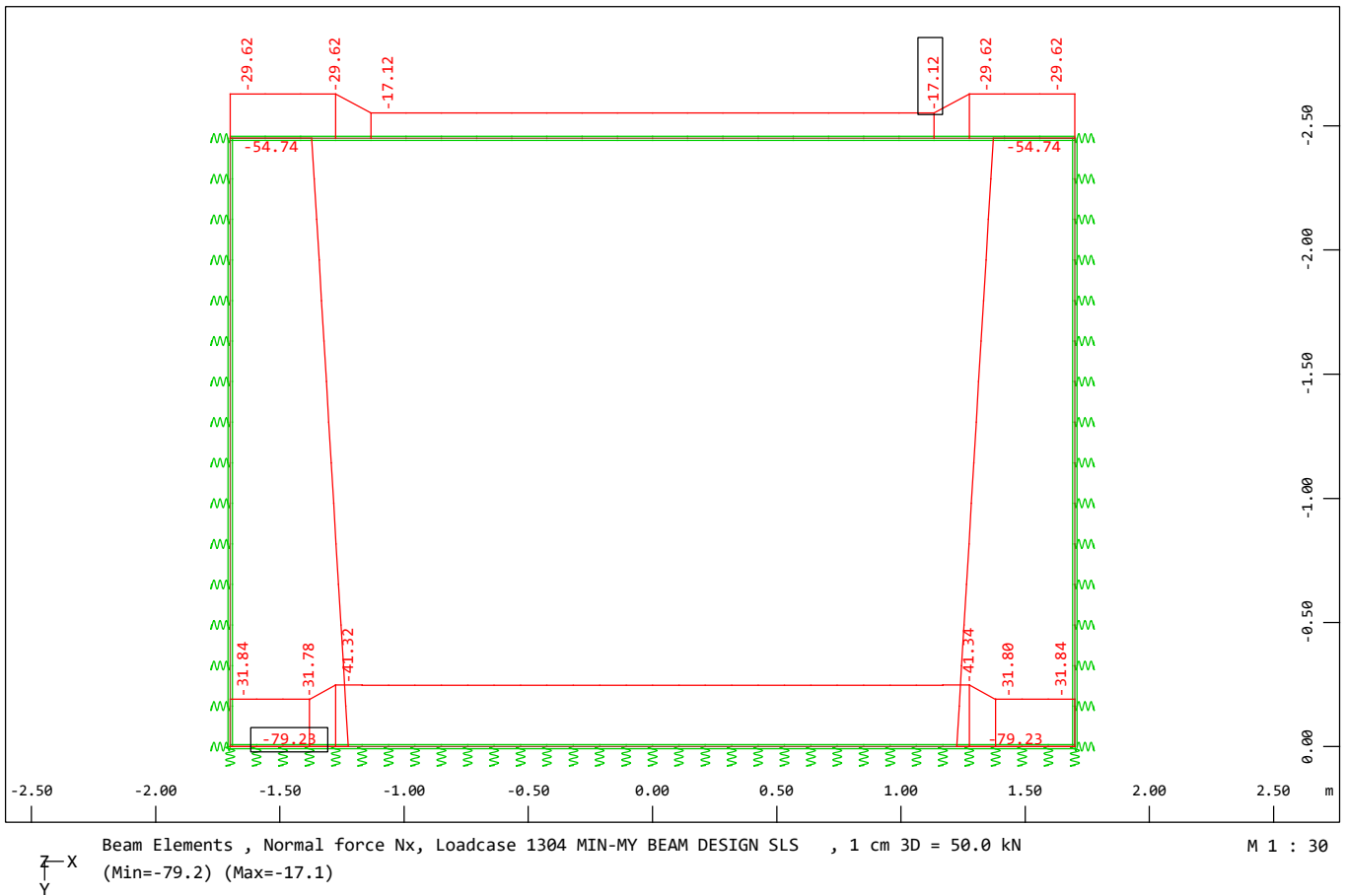
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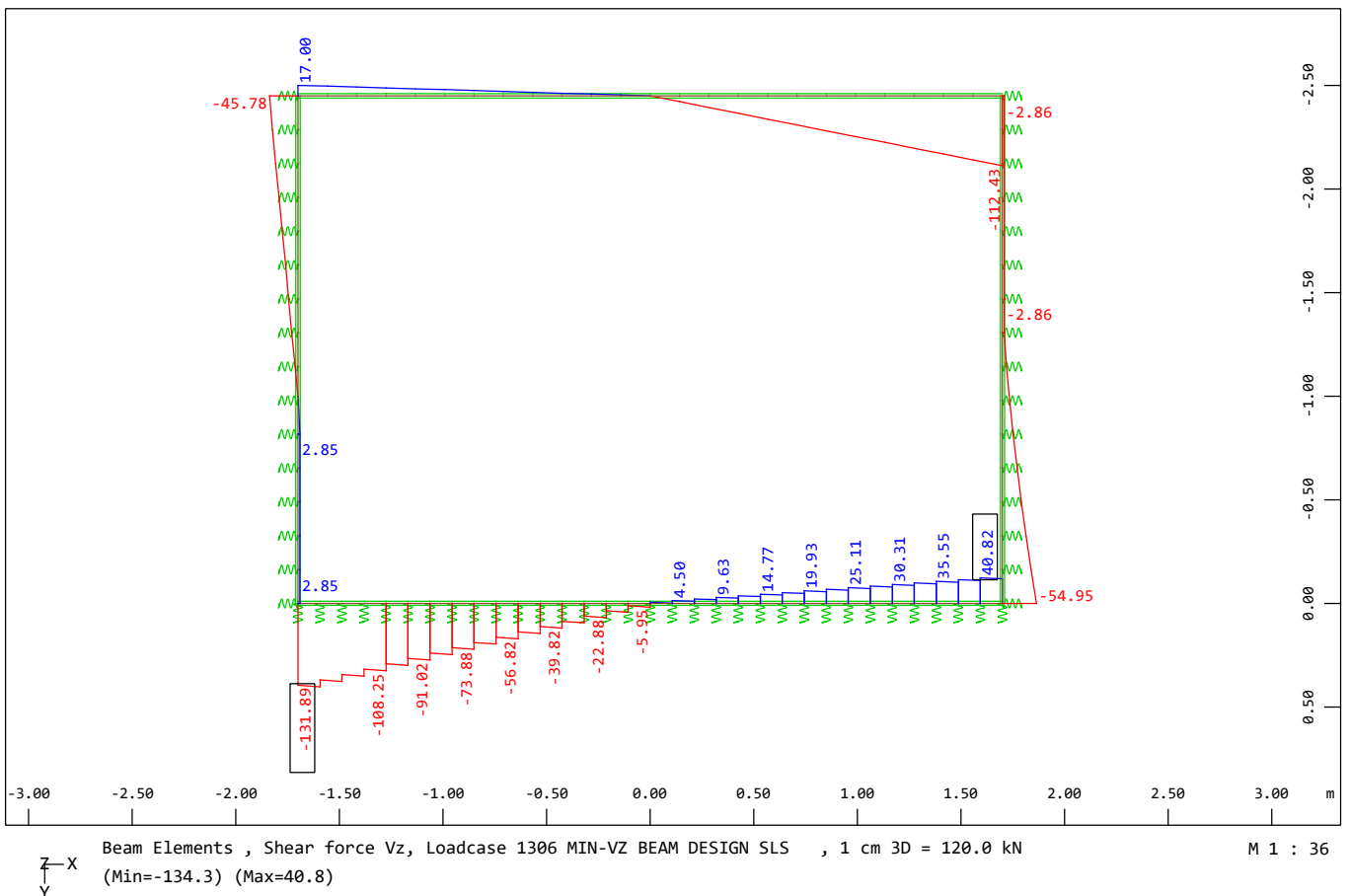
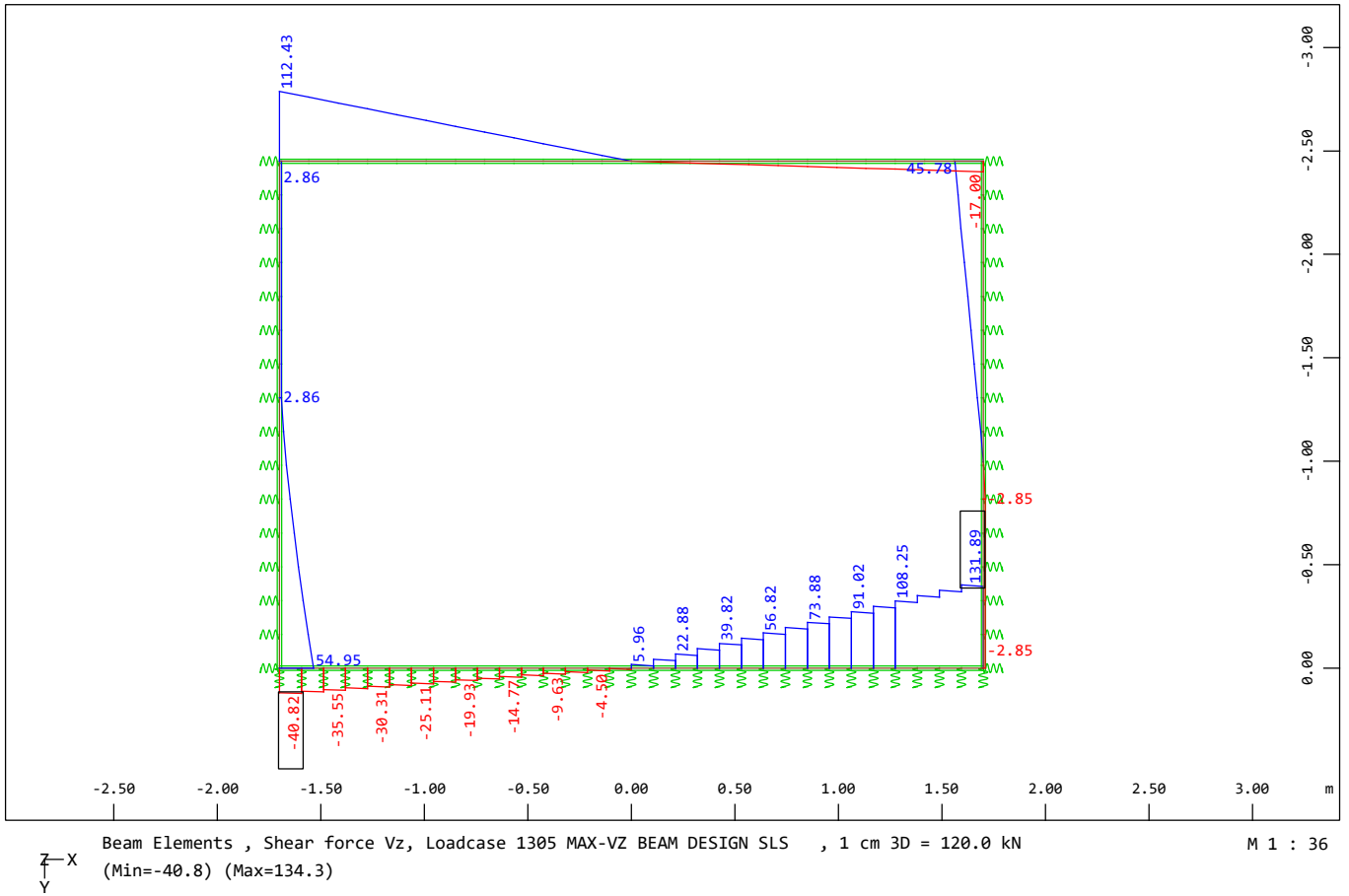
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
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Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures

Safety factors	γ -c,t	γ -c,c	γ -c,s	γ -s,s	γ -s,p	γ -s	Uniaxial bending
Strain limits	ϵ -c1	ϵ -c2	ϵ -s1	ϵ -s2	ϵ -z1	ϵ -z2	CTRL-options
	1.50	1.50	1.50	1.15	1.15	1.00	
	-3.50	-2.00 ¹	δ = 1.00 ²	45.00	-3.50	20.00	PIIA = 7
¹ Strain limits will be adopted to active stress strain definitions of material							
² Value is obtained from maximum height of compression zone based on the redistribution grade δ (EN 1992-1-1, 5.5)							
γ -c,t	global safety factor for concrete in bending			γ -s,p	global safety factor for active reinforcements		
γ -c,c	global safety factor for concrete in compression			γ -s	global safety factor for structural steel		
γ -c,s	global safety factor for concrete in shear			ϵ -c1	strain limit for compression of concrete		
γ -s,s	global safety factor for passive reinforcements			ϵ -c2	strain limit for centric compression of concrete		
ϵ -s1	strain limit for a selected x/d ratio triggering symmetric reinforcements						
ϵ -s2	strain limit for tension respective hardening of reinforcements						
ϵ -z1	incremental strain limit for tendons in compression						
ϵ -z2	incremental strain limit for tendons in tension						

Parameters for reinforcements

Minimum reinforcement for beams	Minimum reinforcement for columns	Compressive Member Limits e/h	Compressive Member Limits N/Npl	Minimum reinforcement of the required section	Maximum reinforcements
0.13 [o/o]	0.20 [o/o]	3.50 ¹	0.0010 ¹	0.00 [o/o] 0.10*Ned/fyd	8.00 [o/o]
¹ A beam is taken as compressive member if the eccentricity e/h is less and the compressive force is larger than these limits					

Tensile forces in the longitudinal reinforcements due to shear are NOT accounted for.
Material of sections uses Ultimate Limit strain-stress law with individual safety factors
Material of reinforcements uses Ultimate Limit strain-stress law with individual safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.500	-16.67	-2.00	0.00	0.00	$f_{c,t} = 0.00$	
2	0	1.150	-500.00	-75.00	500.00	75.00		
11	0	1.500	-13.33	-2.00	0.00	0.00	$f_{c,t} = 0.00$	

Shear Design

Design for shear Eurocode EN 1992 (2004)

Mat	f-cd [MPa]	τ -rd [MPa]	σ -cv [MPa]	σ -ct [MPa]	σ -cv+t [MPa]	f-yd [MPa]
1	16.67	0.12	9.00	9.00	9.00	
2						434.78
11	13.33	0.12	7.36	7.36	7.36	
f-cd design strength of concrete						
τ -rd design value of the shear capacity of the concrete						
σ -cv maximum allowable compressive stress for transverse shear						
σ -ct maximum allowable compressive stress for torsional shear						
σ -cv+t maximum allowable compressive stress						
f-yd design strength of transverse reinforcements						

Minimum shear factor or tan of inclination of compressive struts 0.40 / 1.00

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Tolerance for exceeding maximum shear or principal compression stress 0.0200

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
102	0.000	1	0.22	11.18	0.450		5.59	5.59			
102	0.106	1	0.22	11.18			5.59	5.59			
103	0.000	1	0.22	11.18			5.59	5.59			
103	0.106	1	0.22	11.18			5.59	5.59			
104	0.000	1	0.22	11.18			5.59	5.59			
104	0.106	1	0.22	11.18			5.59	5.59			
105	0.000	1	0.22	11.18			5.59	5.59			
105	0.106	1	0.22	11.18			5.59	5.59			
106	0.000	1	0.22	11.18			5.59	5.59			
106	0.106	1	0.22	11.18			5.59	5.59			
107	0.000	1	0.22	11.18			5.59	5.59			
107	0.106	1	0.22	11.18			5.59	5.59			
108	0.000	1	0.22	11.18			5.59	5.59			
108	0.106	1	0.22	11.19			5.59	5.60			
109	0.000	1	0.22	11.19			5.59	5.60			
109	0.106	1	0.23	11.62			5.59	6.03			
110	0.000	1	0.23	11.62			5.59	6.03			
110	0.106	1	0.24	12.01			5.59	6.42			
111	0.000	1	0.24	12.01			5.59	6.42			
111	0.106	1	0.25	12.33			5.59	6.74			
112	0.000	1	0.25	12.33			5.59	6.74			
112	0.106	1	0.25	12.59			5.59	7.00			
113	0.000	1	0.25	12.59			5.59	7.00			
113	0.106	1	0.26	12.80			5.59	7.21			
114	0.000	1	0.26	12.80			5.59	7.21			
114	0.106	1	0.26	12.95			5.59	7.36			
115	0.000	1	0.26	12.95			5.59	7.36			
115	0.106	1	0.26	13.03			5.59	7.44			
116	0.000	1	0.26	13.03			5.59	7.44			
116	0.106	1	0.26	13.06			5.59	7.47			
117	0.000	1	0.26	13.06			5.59	7.47			
117	0.106	1	0.26	13.03			5.59	7.44			
118	0.000	1	0.26	13.03			5.59	7.44			
118	0.106	1	0.26	12.95			5.59	7.36			
119	0.000	1	0.26	12.95			5.59	7.36			
119	0.106	1	0.26	12.80			5.59	7.21			
120	0.000	1	0.26	12.80			5.59	7.21			
120	0.106	1	0.25	12.59			5.59	7.00			
121	0.000	1	0.25	12.59			5.59	7.00			
121	0.106	1	0.25	12.33			5.59	6.74			
122	0.000	1	0.25	12.33			5.59	6.74			
122	0.106	1	0.24	12.01			5.59	6.42			
123	0.000	1	0.24	12.01			5.59	6.42			
123	0.106	1	0.23	11.62			5.59	6.03			
124	0.000	1	0.23	11.62			5.59	6.03			
124	0.106	1	0.22	11.19			5.59	5.60			
125	0.000	1	0.22	11.19			5.59	5.60			
125	0.106	1	0.22	11.18			5.59	5.59			
126	0.000	1	0.22	11.18			5.59	5.59			
126	0.106	1	0.22	11.18			5.59	5.59			
127	0.000	1	0.22	11.18			5.59	5.59			
127	0.106	1	0.22	11.18			5.59	5.59			
128	0.000	1	0.22	11.18			5.59	5.59			
128	0.106	1	0.22	11.18			5.59	5.59			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
129	0.000	1	0.22	11.18			5.59	5.59			
129	0.106	1	0.22	11.18			5.59	5.59			
130	0.000	1	0.22	11.18			5.59	5.59			
130	0.106	1	0.22	11.18			5.59	5.59			
131	0.000	1	0.22	11.18	0.450		5.59	5.59			
131	0.106	1	0.22	11.18			5.59	5.59			
202	0.000	2	0.24	9.57			5.28	4.29			
202	0.163	2	0.23	9.11			4.82	4.29			
203	0.000	2	0.23	9.11			4.82	4.29			
203	0.163	2	0.22	8.77			4.48	4.29			
204	0.000	2	0.22	8.77			4.48	4.29			
204	0.163	2	0.21	8.58			4.29	4.29			
205	0.000	2	0.21	8.58			4.29	4.29			
205	0.163	2	0.21	8.58			4.29	4.29			
206	0.000	2	0.21	8.58			4.29	4.29			
206	0.163	2	0.21	8.58			4.29	4.29			
207	0.000	2	0.21	8.58			4.29	4.29			
207	0.163	2	0.21	8.58			4.29	4.29			
208	0.000	2	0.21	8.58			4.29	4.29			
208	0.163	2	0.21	8.58			4.29	4.29			
209	0.000	2	0.21	8.58			4.29	4.29			
209	0.163	2	0.21	8.58			4.29	4.29			
210	0.000	2	0.21	8.58			4.29	4.29			
210	0.163	2	0.33	13.36			9.07	4.29			
211	0.000	2	0.33	13.36			9.07	4.29			
211	0.163	2	0.22	8.85			4.56	4.29			
212	0.000	2	0.22	8.85			4.56	4.29			
212	0.163	2	0.23	9.13			4.84	4.29			
213	0.000	2	0.23	9.13			4.84	4.29			
213	0.163	2	0.24	9.58			5.29	4.29			
214	0.000	2	0.24	9.58			5.29	4.29			
214	0.163	2	0.26	10.23			5.94	4.29			
302	0.000	2	0.26	10.23			5.94	4.29			
302	0.163	2	0.24	9.58			5.29	4.29			
303	0.000	2	0.24	9.58			5.29	4.29			
303	0.163	2	0.23	9.13			4.84	4.29			
304	0.000	2	0.23	9.13			4.84	4.29			
304	0.163	2	0.22	8.85			4.56	4.29			
305	0.000	2	0.22	8.85			4.56	4.29			
305	0.163	2	0.33	13.36			9.07	4.29			
306	0.000	2	0.33	13.36			9.07	4.29			
306	0.163	2	0.21	8.58			4.29	4.29			
307	0.000	2	0.21	8.58			4.29	4.29			
307	0.163	2	0.21	8.58			4.29	4.29			
308	0.000	2	0.21	8.58			4.29	4.29			
308	0.163	2	0.21	8.58			4.29	4.29			
309	0.000	2	0.21	8.58			4.29	4.29			
309	0.163	2	0.21	8.58			4.29	4.29			
310	0.000	2	0.21	8.58			4.29	4.29			
310	0.163	2	0.21	8.58			4.29	4.29			
311	0.000	2	0.21	8.58			4.29	4.29			
311	0.163	2	0.21	8.58			4.29	4.29			
312	0.000	2	0.21	8.58			4.29	4.29			
312	0.163	2	0.22	8.77			4.48	4.29			
313	0.000	2	0.22	8.77			4.48	4.29			
313	0.163	2	0.23	9.11			4.82	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
314	0.000	2	0.23	9.11			4.82	4.29			
314	0.163	2	0.24	9.57			5.28	4.29			
402	0.000	3	0.25	9.84			4.29	5.55			
402	0.142	3	0.22	8.67			4.29	4.38			
403	0.000	3	0.22	8.67			4.29	4.38			
403	0.142	3	0.21	8.58			4.29	4.29			
404	0.000	3	0.21	8.58			4.29	4.29			
404	0.142	3	0.21	8.58			4.29	4.29			
405	0.000	3	0.21	8.58			4.29	4.29			
405	0.142	3	0.21	8.58			4.29	4.29			
406	0.000	3	0.21	8.58			4.29	4.29			
406	0.142	3	0.22	8.76			4.47	4.29			
407	0.000	3	0.22	8.76			4.47	4.29			
407	0.142	3	0.23	9.37			5.08	4.29			
408	0.000	3	0.23	9.37			5.08	4.29			
408	0.142	3	0.25	9.88			5.59	4.29			
409	0.000	3	0.25	9.88			5.59	4.29			
409	0.142	3	0.26	10.30			6.01	4.29			
410	0.000	3	0.26	10.30			6.01	4.29			
410	0.142	3	0.27	10.60			6.31	4.29			
411	0.000	3	0.27	10.60			6.31	4.29			
411	0.142	3	0.27	10.79			6.50	4.29			
412	0.000	3	0.27	10.79			6.50	4.29			
412	0.142	3	0.27	10.85			6.56	4.29			
413	0.000	3	0.27	10.85			6.56	4.29			
413	0.142	3	0.27	10.79			6.50	4.29			
414	0.000	3	0.27	10.79			6.50	4.29			
414	0.142	3	0.27	10.60			6.31	4.29			
415	0.000	3	0.27	10.60			6.31	4.29			
415	0.142	3	0.26	10.30			6.01	4.29			
416	0.000	3	0.26	10.30			6.01	4.29			
416	0.142	3	0.25	9.88			5.59	4.29			
417	0.000	3	0.25	9.88			5.59	4.29			
417	0.142	3	0.23	9.37			5.08	4.29			
418	0.000	3	0.23	9.37			5.08	4.29			
418	0.142	3	0.22	8.76			4.47	4.29			
419	0.000	3	0.22	8.76			4.47	4.29			
419	0.142	3	0.21	8.58			4.29	4.29			
420	0.000	3	0.21	8.58			4.29	4.29			
420	0.142	3	0.21	8.58			4.29	4.29			
421	0.000	3	0.21	8.58			4.29	4.29			
421	0.142	3	0.21	8.58			4.29	4.29			
422	0.000	3	0.21	8.58			4.29	4.29			
422	0.142	3	0.22	8.67			4.29	4.38			
423	0.000	3	0.22	8.67			4.29	4.38			
423	0.142	3	0.25	9.84			4.29	5.55			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
Asl total longitudinal reinforcement
vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

Shear Reinforcements per Cutted Part of Section - Design case No. 1

Beam	x[m]	SNo	Asl-Mt [cm2/m]	As/s [cm2/m]	As/s-1 [cm2/m]
102	0.106	1	0.00		4.42
131	0.000	1	0.00		4.42

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Asl-Mt nominal longitudinal reinforcement per circumference of
equivalent section due to torsion
As/s area of transverse reinforcements
As/s-1 total transverse reinforcement per layer and cutted element

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.155	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Πυθμένα	0.000	0.000	0.000	0.155	-	-	1.000	1.000	-	-	
Section 2	0.000	0.000	0.066	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Τοίχοι	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Section 3	0.000	0.000	0.110	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Οροφής	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Total	0.000	0.000	0.155	0.000	0.000	0.000	0.000	0.000	-	-	1.000
	0.000	0.000	0.000	0.155	-	-	1.000	1.000	-	-	
N	normal force		τ	shear stress							
Vy,Vz	shear force		$\sigma-v$	von Mises stress							
My,Mz	bending		$\sigma-s$	stress in reinforcements							
Mtp,Mts	torsion (p)primary and (s)econdary		$\sigma-dyn$	stress range							
Mb	warping moment		As-l	longitudinal reinforcements							
Ncr	flexural buckling		As-v	transverse reinforcements							
SCL	cross-section class		crack	crack width							
$\sigma-x$	longitud. compressive stress		c/t	stress dependant utilisation level (see AQB Manual 2.3.2)							
$\sigma+x$	longitud. tensile stress		Total	most unfavorable utilisation for all checks							

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 2
Reinforcements superposed with existing Design case No. 1

Nonlinear Stresses

Parameters for Nonlinear Stresses

Iteration for all forces and moments
Interaction thin walled normal- and shearstress via Prandtl flow rule
Design against cracks according to EuroNorm EN 1992-1-1:2004 Concrete Structures
Limits for the effective zone h-min= 0.0 h-max= 800.0 [mm]
Design values of crack width 0.200 [mm]
Coefficient kt of load duration (EN 1992-1-1 Eq. 7.9) 0.40
Material of sections uses Serviceability strain-stress law without safety factors
Material of reinforcements uses Serviceability strain-stress law without safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.000	-33.00	-2.07	0.00	0.00	fc,t = 0.00	
2	0	1.000	-575.00	-75.00	575.00	75.00		0.80
11	0	1.000	-28.00	-1.97	0.00	0.00	fc,t = 0.00	

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Longitud. compressive stress	σ-x	-7.83		MPa		428	214	0.163
	Longitud. tensile stress	σ+x	0.00		MPa		427	413	0.142
2	Longitud. compressive stress	σ-x	-6.27		MPa		424	211	0.000
	Longitud. tensile stress	σ+x	173.75		MPa		428	214	0.163

Check for crack width passed with additional reinforcements✓

Stiffness is not saved in database

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
102	0.000	1	0.32	16.05			10.46	5.59			
102	0.106	1	0.30	14.85	0.450		9.26	5.59			
103	0.000	1	0.30	14.85			9.26	5.59			
103	0.106	1	0.30	14.81			8.20	6.61			
104	0.000	1	0.30	14.82			8.21	6.61			
104	0.106	1	0.30	15.06			7.40	7.66			
105	0.000	1	0.30	15.06			7.40	7.66			
105	0.106	1	0.30	14.83			6.26	8.57			
106	0.000	1	0.30	14.83			6.26	8.57			
106	0.106	1	0.30	15.05			5.59	9.46			
107	0.000	1	0.30	15.05			5.59	9.46			
107	0.106	1	0.32	15.83			5.59	10.24			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
108	0.000	1	0.32	15.83			5.59	10.24			
108	0.106	1	0.33	16.51			5.59	10.92			
109	0.000	1	0.33	16.51			5.59	10.92			
109	0.106	1	0.34	17.10			5.59	11.51			
110	0.000	1	0.34	17.10			5.59	11.51			
110	0.106	1	0.35	17.60			5.59	12.01			
111	0.000	1	0.35	17.60			5.59	12.01			
111	0.106	1	0.36	18.02			5.59	12.43			
112	0.000	1	0.36	18.02			5.59	12.43			
112	0.106	1	0.37	18.37			5.59	12.78			
113	0.000	1	0.37	18.37			5.59	12.78			
113	0.106	1	0.37	18.63			5.59	13.04			
114	0.000	1	0.37	18.63			5.59	13.04			
114	0.106	1	0.38	18.81			5.59	13.22			
115	0.000	1	0.38	18.81			5.59	13.22			
115	0.106	1	0.38	18.93			5.59	13.34			
116	0.000	1	0.38	18.93			5.59	13.34			
116	0.106	1	0.38	18.97			5.59	13.38			
117	0.000	1	0.38	18.97			5.59	13.38			
117	0.106	1	0.38	18.93			5.59	13.34			
118	0.000	1	0.38	18.93			5.59	13.34			
118	0.106	1	0.38	18.81			5.59	13.22			
119	0.000	1	0.38	18.81			5.59	13.22			
119	0.106	1	0.37	18.63			5.59	13.04			
120	0.000	1	0.37	18.63			5.59	13.04			
120	0.106	1	0.37	18.37			5.59	12.78			
121	0.000	1	0.37	18.37			5.59	12.78			
121	0.106	1	0.36	18.02			5.59	12.43			
122	0.000	1	0.36	18.02			5.59	12.43			
122	0.106	1	0.35	17.60			5.59	12.01			
123	0.000	1	0.35	17.60			5.59	12.01			
123	0.106	1	0.34	17.10			5.59	11.51			
124	0.000	1	0.34	17.10			5.59	11.51			
124	0.106	1	0.33	16.51			5.59	10.92			
125	0.000	1	0.33	16.51			5.59	10.92			
125	0.106	1	0.32	15.83			5.59	10.24			
126	0.000	1	0.32	15.83			5.59	10.24			
126	0.106	1	0.30	15.05			5.59	9.46			
127	0.000	1	0.30	15.05			5.59	9.46			
127	0.106	1	0.30	14.83			6.26	8.57			
128	0.000	1	0.30	14.83			6.26	8.57			
128	0.106	1	0.30	15.06			7.40	7.66			
129	0.000	1	0.30	15.06			7.40	7.66			
129	0.106	1	0.30	14.82			8.21	6.61			
130	0.000	1	0.30	14.81			8.20	6.61			
130	0.106	1	0.30	14.85			9.26	5.59			
131	0.000	1	0.30	14.85	0.450		9.26	5.59			
131	0.106	1	0.32	16.05			10.46	5.59			
202	0.000	2	0.36	14.50			10.21	4.29			
202	0.163	2	0.35	13.92			9.63	4.29			
203	0.000	2	0.35	13.92			9.63	4.29			
203	0.163	2	0.34	13.41			9.12	4.29			
204	0.000	2	0.34	13.41			9.12	4.29			
204	0.163	2	0.32	12.83			8.54	4.29			
205	0.000	2	0.32	12.83			8.54	4.29			
205	0.163	2	0.31	12.37			8.08	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
206	0.000	2	0.31	12.37			8.08	4.29			
206	0.163	2	0.30	12.06			7.77	4.29			
207	0.000	2	0.30	12.06			7.77	4.29			
207	0.163	2	0.30	11.98			7.69	4.29			
208	0.000	2	0.30	11.98			7.69	4.29			
208	0.163	2	0.30	12.07			7.78	4.29			
209	0.000	2	0.30	12.07			7.78	4.29			
209	0.163	2	0.31	12.30			8.01	4.29			
210	0.000	2	0.31	12.30			8.01	4.29			
210	0.163	2	0.33	13.36			9.07	4.29			
211	0.000	2	0.33	13.36			9.07	4.29			
211	0.163	2	0.33	13.25			8.96	4.29			
212	0.000	2	0.33	13.25			8.96	4.29			
212	0.163	2	0.35	13.87			9.58	4.29			
213	0.000	2	0.35	13.87			9.58	4.29			
213	0.163	2	0.36	14.59			10.30	4.29			
214	0.000	2	0.36	14.59			10.30	4.29			
214	0.163	2	0.39	15.45			11.16	4.29			
302	0.000	2	0.39	15.45			11.16	4.29			
302	0.163	2	0.36	14.59			10.30	4.29			
303	0.000	2	0.36	14.59			10.30	4.29			
303	0.163	2	0.35	13.87			9.58	4.29			
304	0.000	2	0.35	13.87			9.58	4.29			
304	0.163	2	0.33	13.25			8.96	4.29			
305	0.000	2	0.33	13.25			8.96	4.29			
305	0.163	2	0.33	13.36			9.07	4.29			
306	0.000	2	0.33	13.36			9.07	4.29			
306	0.163	2	0.31	12.30			8.01	4.29			
307	0.000	2	0.31	12.30			8.01	4.29			
307	0.163	2	0.30	12.07			7.78	4.29			
308	0.000	2	0.30	12.07			7.78	4.29			
308	0.163	2	0.30	11.98			7.69	4.29			
309	0.000	2	0.30	11.98			7.69	4.29			
309	0.163	2	0.30	12.06			7.77	4.29			
310	0.000	2	0.30	12.06			7.77	4.29			
310	0.163	2	0.31	12.37			8.08	4.29			
311	0.000	2	0.31	12.37			8.08	4.29			
311	0.163	2	0.32	12.83			8.54	4.29			
312	0.000	2	0.32	12.83			8.54	4.29			
312	0.163	2	0.34	13.41			9.12	4.29			
313	0.000	2	0.34	13.41			9.12	4.29			
313	0.163	2	0.35	13.92			9.63	4.29			
314	0.000	2	0.35	13.92			9.63	4.29			
314	0.163	2	0.36	14.50			10.21	4.29			
402	0.000	3	0.37	14.91			4.29	10.62			
402	0.142	3	0.34	13.46			4.29	9.17			
403	0.000	3	0.34	13.46			4.29	9.17			
403	0.142	3	0.31	12.56			5.20	7.37			
404	0.000	3	0.31	12.56			5.20	7.37			
404	0.142	3	0.31	12.55			6.35	6.20			
405	0.000	3	0.31	12.55			6.35	6.20			
405	0.142	3	0.32	12.80			7.62	5.17			
406	0.000	3	0.32	12.80			7.62	5.17			
406	0.142	3	0.33	13.22			8.93	4.29			
407	0.000	3	0.33	13.22			8.93	4.29			
407	0.142	3	0.35	14.00			9.71	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

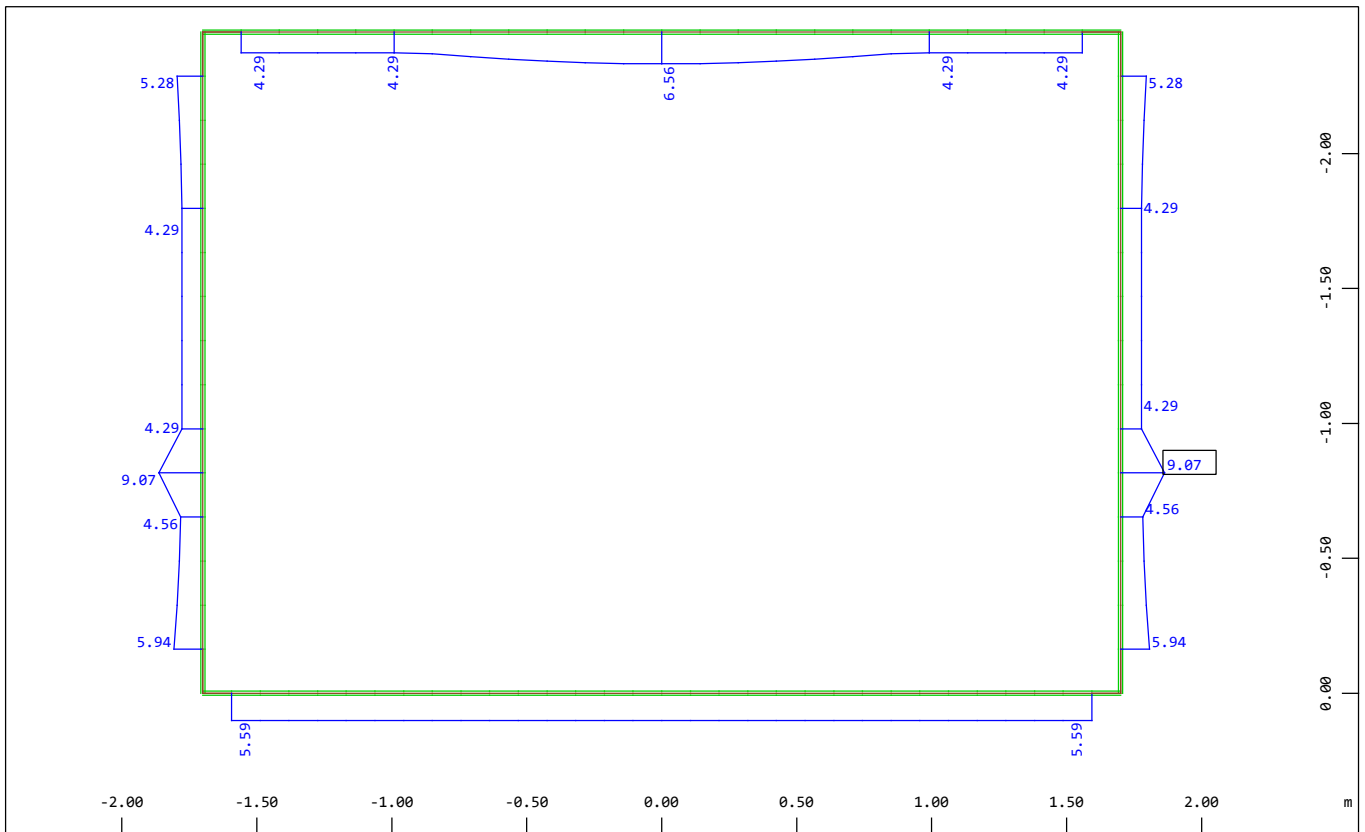
Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
408	0.000	3	0.35	14.00			9.71	4.29			
408	0.142	3	0.37	14.62			10.33	4.29			
409	0.000	3	0.37	14.62			10.33	4.29			
409	0.142	3	0.38	15.10			10.81	4.29			
410	0.000	3	0.38	15.10			10.81	4.29			
410	0.142	3	0.39	15.43			11.14	4.29			
411	0.000	3	0.39	15.43			11.14	4.29			
411	0.142	3	0.39	15.63			11.34	4.29			
412	0.000	3	0.39	15.63			11.34	4.29			
412	0.142	3	0.39	15.70			11.41	4.29			
413	0.000	3	0.39	15.70			11.41	4.29			
413	0.142	3	0.39	15.63			11.34	4.29			
414	0.000	3	0.39	15.63			11.34	4.29			
414	0.142	3	0.39	15.43			11.14	4.29			
415	0.000	3	0.39	15.43			11.14	4.29			
415	0.142	3	0.38	15.10			10.81	4.29			
416	0.000	3	0.38	15.10			10.81	4.29			
416	0.142	3	0.37	14.62			10.33	4.29			
417	0.000	3	0.37	14.62			10.33	4.29			
417	0.142	3	0.35	14.00			9.71	4.29			
418	0.000	3	0.35	14.00			9.71	4.29			
418	0.142	3	0.33	13.22			8.93	4.29			
419	0.000	3	0.33	13.22			8.93	4.29			
419	0.142	3	0.32	12.80			7.62	5.17			
420	0.000	3	0.32	12.80			7.62	5.17			
420	0.142	3	0.31	12.55			6.35	6.20			
421	0.000	3	0.31	12.55			6.35	6.20			
421	0.142	3	0.31	12.56			5.20	7.37			
422	0.000	3	0.31	12.56			5.20	7.37			
422	0.142	3	0.34	13.46			4.29	9.17			
423	0.000	3	0.34	13.46			4.29	9.17			
423	0.142	3	0.37	14.91			4.29	10.62			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
Asl total longitudinal reinforcement
vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

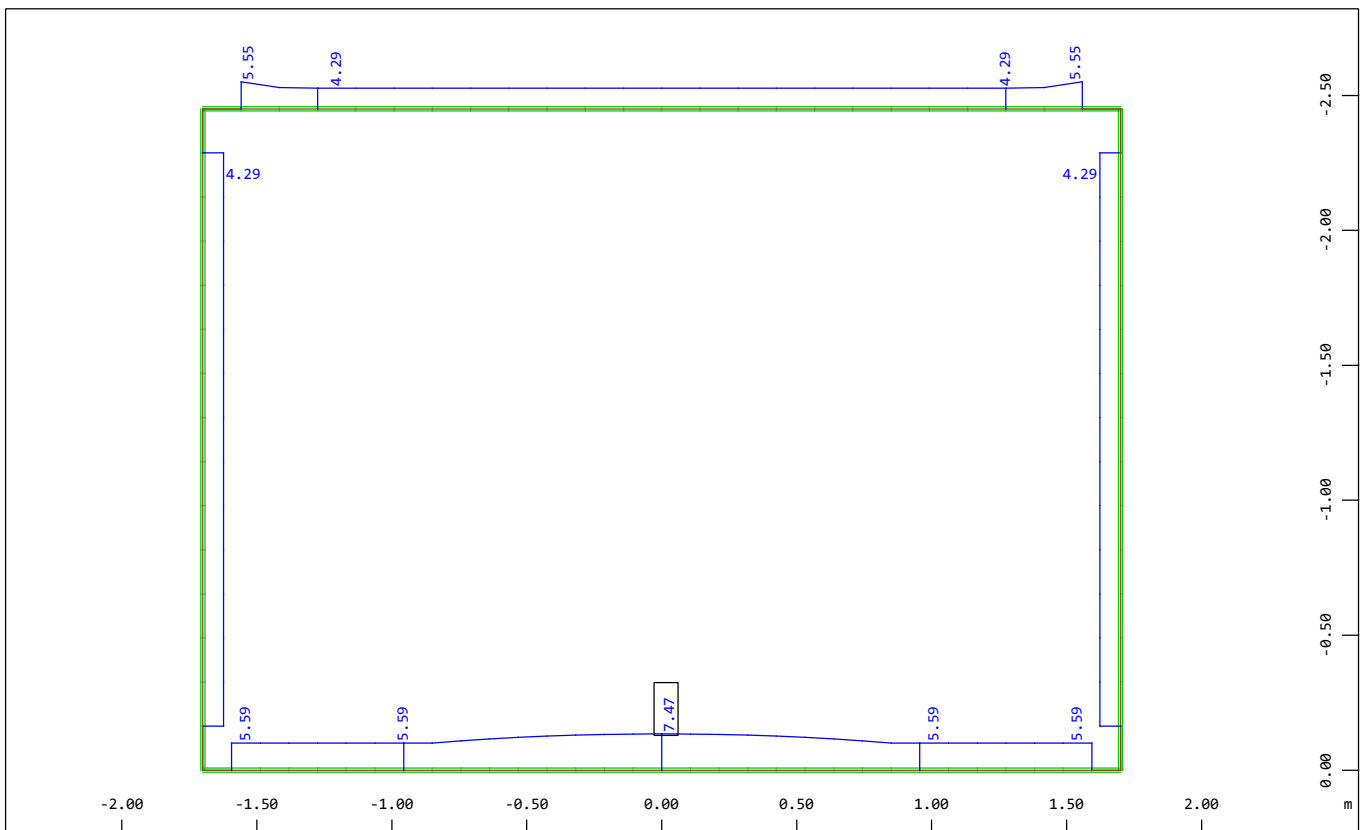
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ



Z-X
Y

Sector of system Beam Elements
Beam Elements, Longitudinal Reinforcements Lay. M1, Design Case 1, 1 cm 3D = 15.0 cm2
(Max=9.07)

M 1 : 28

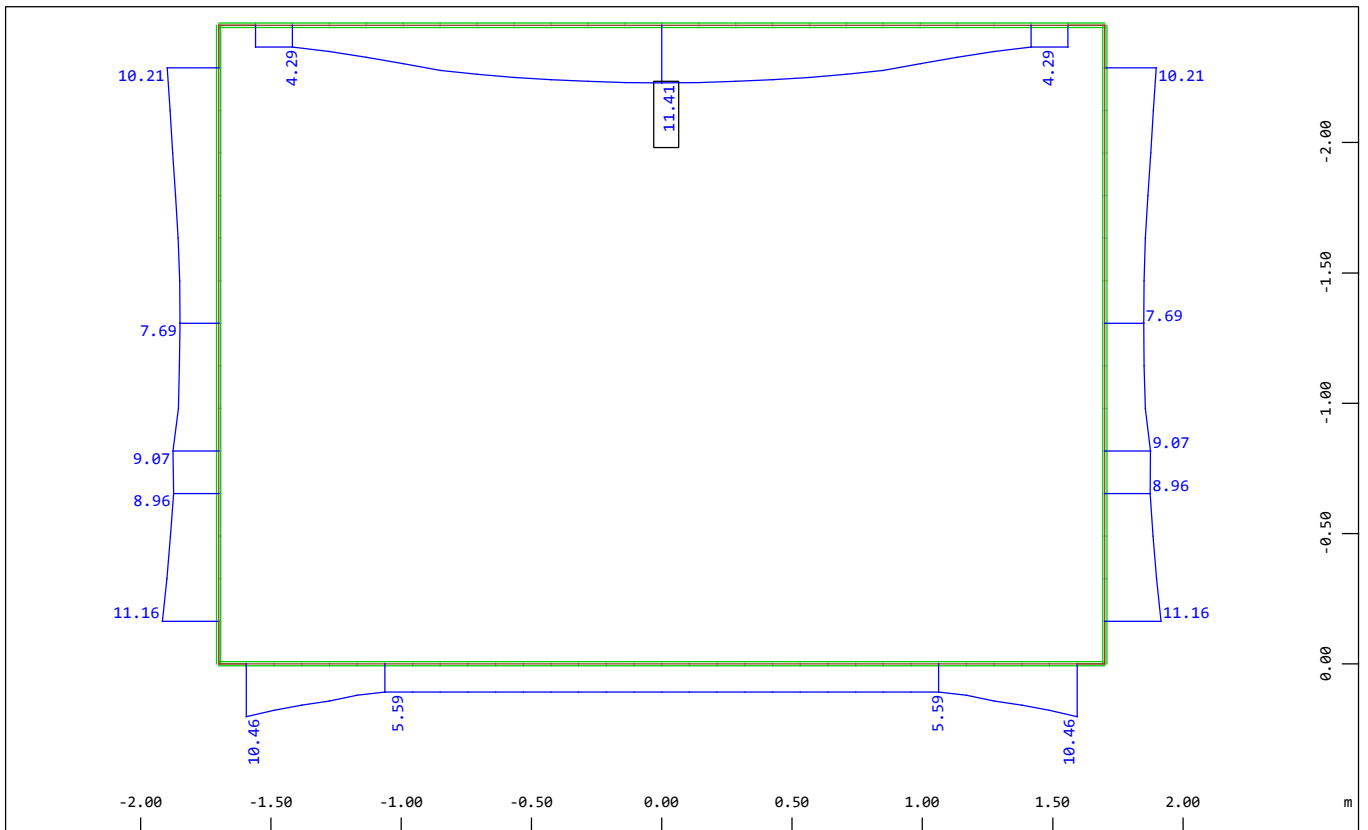


Z-X
Y

Sector of system Beam Elements
Beam Elements, Longitudinal Reinforcements Lay. M2, Design Case 1, 1 cm 3D = 15.0 cm2
(Max=7.47)

M 1 : 28

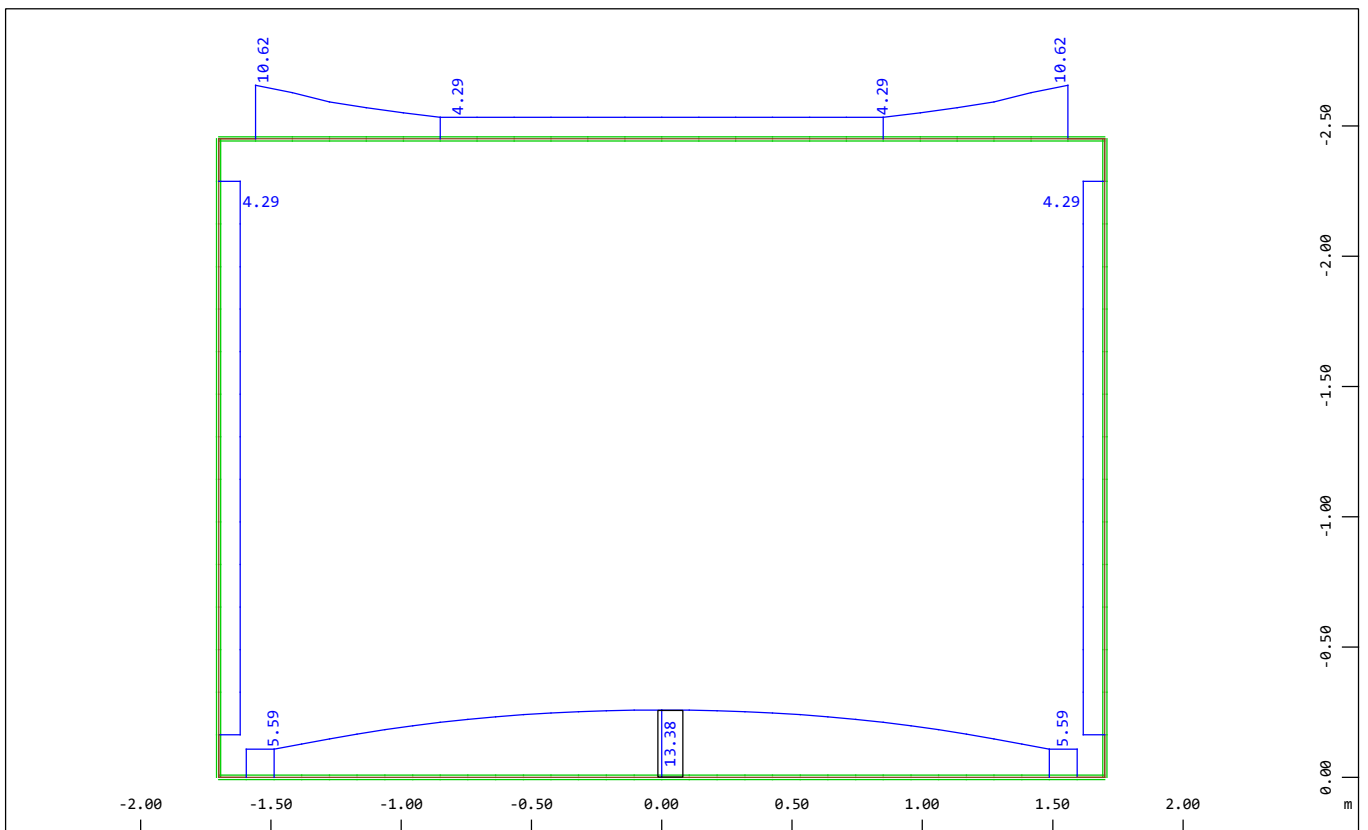
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ



Z-X
Y

Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M1, Design Case 2 , 1 cm 3D = 15.0 cm2
(Max=11.4)

M 1 : 29

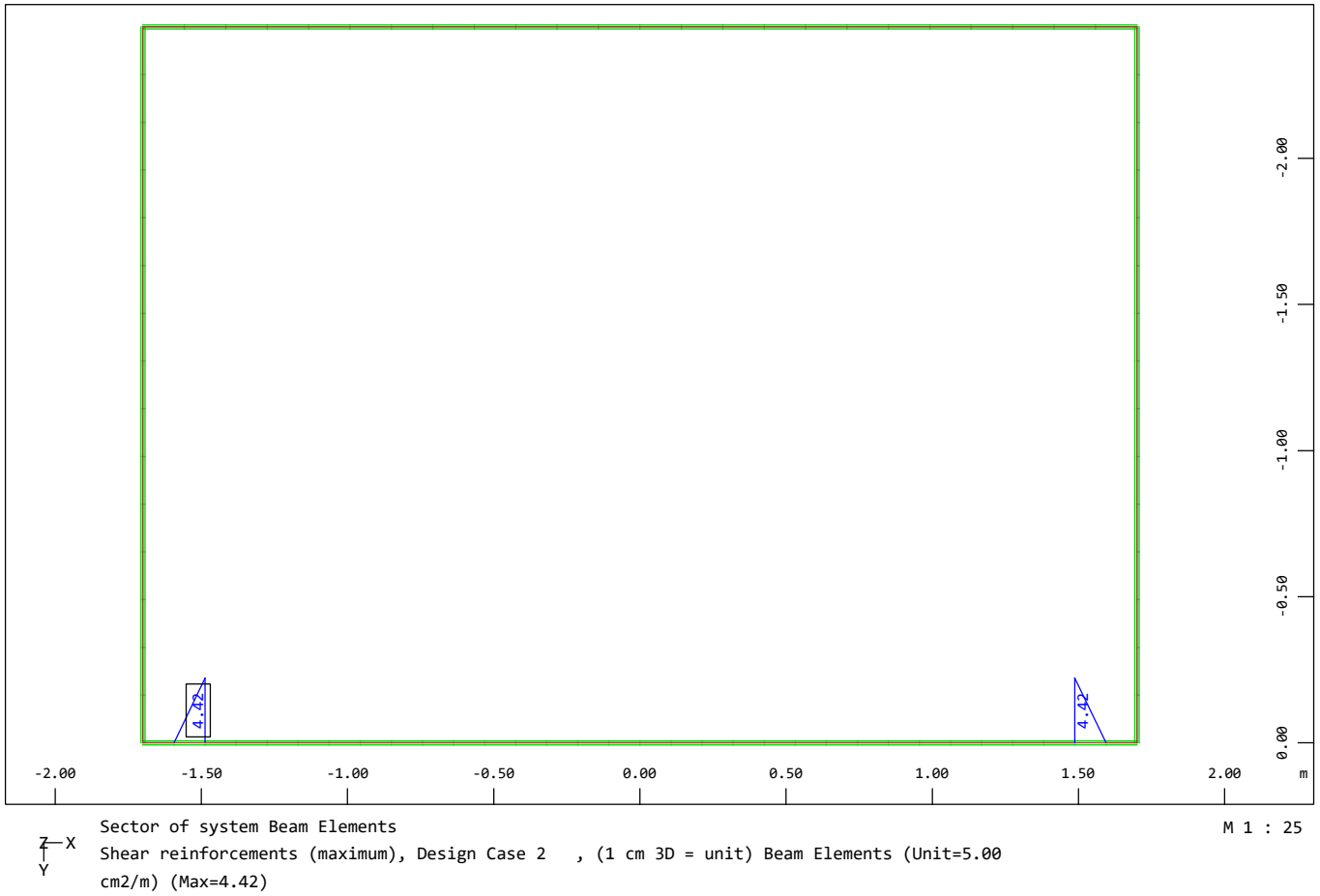


Z-X
Y

Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M2, Design Case 2 , 1 cm 3D = 15.0 cm2
(Max=13.4)

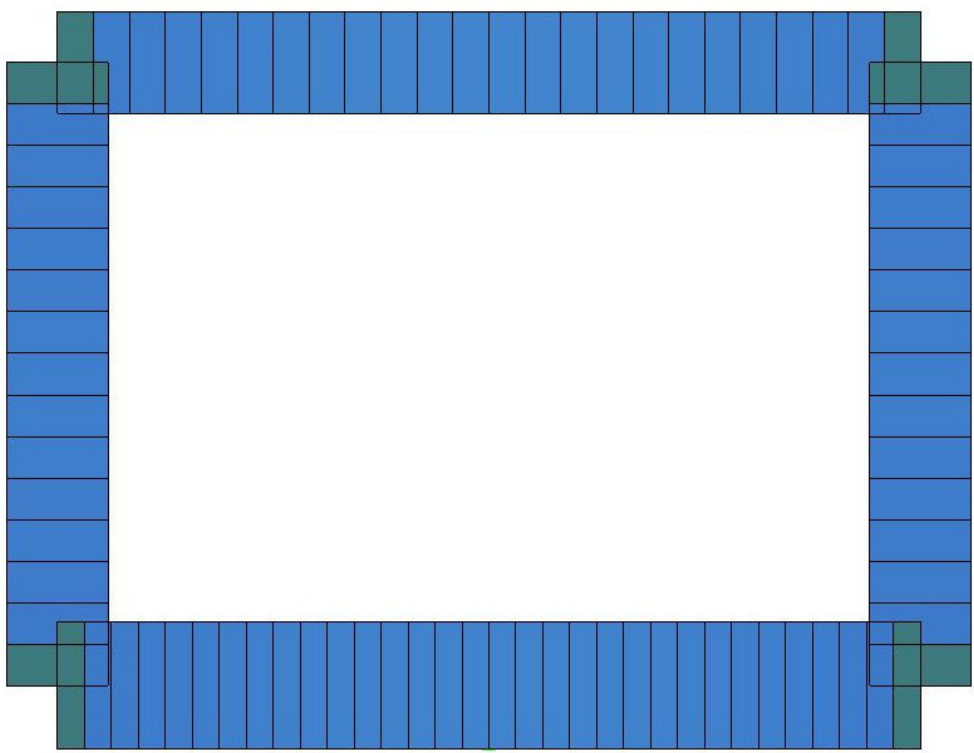
M 1 : 29

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΤΜΗΣΗΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

Table of Contents

ΑΓΩΓΟΣ

Introduction	1
ΑΓΩΓΟΣ Α2	1

• Introduction	9
----------------------	---

ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	10
Mat 1 C 35/45 (EN 1992)	10
Mat 2 B 500 C (EN 1992)	10
Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Cross section No. 1 - Πλάκα Πυθμένα	10
Static properties of cross section	11
Cross section No. 2 - Τοίχοι	11
Cross section No. 2 - Τοίχοι	11
Static properties of cross section	11
Cross section No. 3 - Πλάκα Οροφής	11
Cross section No. 3 - Πλάκα Οροφής	11
Static properties of cross section	12
Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12
Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	12

• Introduction	13
----------------------	----

ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups	14
Summary of beam elements	14
Groups	14
Cross sections	14

RIGID ELEMENTS

ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ

Beam Elements , Cross sections	15
Beam Elements , Coordinate system Number of group	16
Beam Elements , Number of element Beam Elements , Numbers of cross section	17
X-coordinate Y-coordinate	18
Spring constant Transverse spring constant	19

• Introduction	20
----------------------	----

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 1 ΙΔΙΟ ΒΑΡΟΣ (G)	21
Load Case 2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	21
Load Case 3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	21
Load Case 4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	21
Load Case 5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	21
Load Case 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	21
Load Case 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	21
Load Case 11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=1.1) (R1)	21
Load Case 12 ΚΙΝΗΤΑ (Heπ.=1.1) (Q1)	21
Load Case 13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Heπ=1.1) (EA1)	21

- ΑΓΩΓΟΣ Α2 -

Load Case 14	ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=1.1) (ES1)	21
Load Case 21	ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Ηεπ.=2.1) (R2)	21
Load Case 22	ΚΙΝΗΤΑ (Ηεπ.=2.1) (Q2)	21
Load Case 23	ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (EA2)	21
Load Case 24	ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Ηεπ=2.1) (ES2)	21

All loads LC: 2 All loads LC: 3	22
All loads LC: 4 All loads LC: 5	23
All loads LC: 6 All loads LC: 7	24
All loads LC: 11 All loads LC: 12	25
All loads LC: 13 All loads LC: 14	26
All loads LC: 21 All loads LC: 22	27
All loads LC: 23 All loads LC: 24	28

Introduction 30

Load Case 100	1.35G+C	31
Load Case 101	1.35(G+R1)+C	31
Load Case 102	G+1.35R1+C	31
Load Case 103	1.35G+R1+C	31
Load Case 104	1.35(G+R1)+C+1.2W	31
Load Case 105	G+1.35R1+C+1.2W	31
Load Case 106	1.35G+R1+C+1.2W	31
Load Case 107	1.35(G+R1)+C+1.5Q1	31
Load Case 108	G+1.35R1+C+1.5Q1	31
Load Case 109	1.35G+R1+C+1.5Q1	32
Load Case 110	1.35(G+R1)+C+1.2W+1.5Q1	32
Load Case 111	G+1.35R1+C+1.2W+1.5Q1	32
Load Case 112	1.35G+R1+C+1.2W+1.5Q1	32
Load Case 113	1.35(G+R1)+C+1.5Q1+0.75T	32
Load Case 114	G+1.35R1+C+1.5Q1+0.75T	32
Load Case 115	1.35G+R1+C+1.5Q1+0.75T	32
Load Case 116	1.35(G+R1)+C+1.2W+1.5Q1+0.75T	32
Load Case 117	G+1.35R1+C+1.2W+1.5Q1+0.75T	33
Load Case 118	1.35G+R1+C+1.2W+1.5Q1+0.75T	33
Load Case 119	1.35(G+R1)+C+1.5Q1+0.75T	33
Load Case 120	G+1.35R1+C+1.5Q1+0.75T	33
Load Case 121	1.35G+R1+C+1.5Q1+0.75T	33
Load Case 122	1.35(G+R1)+C+1.2W+1.5Q1+0.75T	33
Load Case 123	G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 124	1.35G+R1+C+1.2W+1.5Q1+0.75T	34
Load Case 125	1.35(G+R1)+C+1.5Q1+0.75T	34
Load Case 126	G+1.35R1+C+1.5Q1+0.75T	34
Load Case 127	1.35G+R1+C+1.5Q1+0.75T	34
Load Case 128	1.35(G+R1)+C+1.2W+1.5Q1+0.75T	34
Load Case 129	G+1.35R1+C+1.2W+1.5Q1+0.75T	34
Load Case 130	1.35G+R1+C+1.2W+1.5Q1+0.75T	35
Load Case 131	1.35(G+R1)+C+1.5Q1+0.75T	35
Load Case 132	G+1.35R1+C+1.5Q1+0.75T	35
Load Case 133	1.35G+R1+C+1.5Q1+0.75T	35
Load Case 134	1.35(G+R1)+C+1.2W+1.5Q1+0.75T	35
Load Case 135	G+1.35R1+C+1.2W+1.5Q1+0.75T	35
Load Case 136	1.35G+R1+C+1.2W+1.5Q1+0.75T	35

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 138	G+1.35R1+C+0.9Q1+1.5T	36
Load Case 139	1.35G+R1+C+0.9Q1+1.5T	36
Load Case 140	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	36
Load Case 141	G+1.35R1+C+1.2W+0.9Q1+1.5T	36
Load Case 142	1.35G+R1+C+1.2W+0.9Q1+1.5T	36
Load Case 143	1.35(G+R1)+C+0.9Q1+1.5T	36
Load Case 144	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 145	1.35G+R1+C+0.9Q1+1.5T	37
Load Case 146	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	37
Load Case 147	G+1.35R1+C+1.2W+0.9Q1+1.5T	37
Load Case 148	1.35G+R1+C+1.2W+0.9Q1+1.5T	37
Load Case 149	1.35(G+R1)+C+0.9Q1+1.5T	37
Load Case 150	G+1.35R1+C+0.9Q1+1.5T	37
Load Case 151	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	38
Load Case 153	G+1.35R1+C+1.2W+0.9Q1+1.5T	38
Load Case 154	1.35G+R1+C+1.2W+0.9Q1+1.5T	38
Load Case 155	1.35(G+R1)+C+0.9Q1+1.5T	38
Load Case 156	G+1.35R1+C+0.9Q1+1.5T	38
Load Case 157	1.35G+R1+C+0.9Q1+1.5T	38
Load Case 158	1.35(G+R1)+C+1.2W+0.9Q1+1.5T	39
Load Case 159	G+1.35R1+C+1.2W+0.9Q1+1.5T	39
Load Case 160	1.35G+R1+C+1.2W+0.9Q1+1.5T	39
Load Case 161	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 162	G+1.35R1+C+1.2W+1.5T	39
Load Case 163	1.35G+R1+C+1.2W+1.5T	39
Load Case 164	1.35(G+R1)+C+1.2W+1.5T	39
Load Case 165	G+1.35R1+C+1.2W+1.5T	40
Load Case 166	1.35G+R1+C+1.2W+1.5T	40
Load Case 167	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 168	G+1.35R1+C+1.2W+1.5T	40
Load Case 169	1.35G+R1+C+1.2W+1.5T	40
Load Case 170	1.35(G+R1)+C+1.2W+1.5T	40
Load Case 171	G+1.35R1+C+1.2W+1.5T	40
Load Case 172	1.35G+R1+C+1.2W+1.5T	40
Load Case 201	1.35(G+R2)+C	41
Load Case 202	G+1.35R2+C	41
Load Case 203	1.35G+R2+C	41
Load Case 204	1.35(G+R2)+C+1.2W	41
Load Case 205	G+1.35R2+C+1.2W	41
Load Case 206	1.35G+R2+C+1.2W	41
Load Case 207	1.35(G+R2)+C+1.5Q2	41
Load Case 208	G+1.35R2+C+1.5Q2	41
Load Case 209	1.35G+R2+C+1.5Q2	42
Load Case 210	1.35(G+R2)+C+1.2W+1.5Q2	42
Load Case 211	G+1.35R2+C+1.2W+1.5Q2	42
Load Case 212	1.35G+R2+C+1.2W+1.5Q2	42
Load Case 213	1.35(G+R2)+C+1.5Q2+0.75T	42
Load Case 214	G+1.35R2+C+1.5Q2+0.75T	42
Load Case 215	1.35G+R2+C+1.5Q2+0.75T	42
Load Case 216	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	42
Load Case 217	G+1.35R2+C+1.2W+1.5Q2+0.75T	43
Load Case 218	1.35G+R2+C+1.2W+1.5Q2+0.75T	43
Load Case 219	1.35(G+R2)+C+1.5Q2+0.75T	43
Load Case 220	G+1.35R2+C+1.5Q2+0.75T	43
Load Case 221	1.35G+R2+C+1.5Q2+0.75T	43
Load Case 222	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	43
Load Case 223	G+1.35R2+C+1.2W+1.5Q2+0.75T	44

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 224	1.35G+R2+C+1.2W+1.5Q2+0.75T	44
Load Case 225	1.35(G+R2)+C+1.5Q2+0.75T	44
Load Case 226	G+1.35R2+C+1.5Q2+0.75T	44
Load Case 227	1.35G+R2+C+1.5Q2+0.75T	44
Load Case 228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	44
Load Case 229	G+1.35R2+C+1.2W+1.5Q2+0.75T	44
Load Case 230	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 231	1.35(G+R2)+C+1.5Q2+0.75T	45
Load Case 232	G+1.35R2+C+1.5Q2+0.75T	45
Load Case 233	1.35G+R2+C+1.5Q2+0.75T	45
Load Case 234	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	45
Load Case 235	G+1.35R2+C+1.2W+1.5Q2+0.75T	45
Load Case 236	1.35G+R2+C+1.2W+1.5Q2+0.75T	45
Load Case 237	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 238	G+1.35R2+C+0.9Q2+1.5T	46
Load Case 239	1.35G+R2+C+0.9Q2+1.5T	46
Load Case 240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	46
Load Case 241	G+1.35R2+C+1.2W+0.9Q2+1.5T	46
Load Case 242	1.35G+R2+C+1.2W+0.9Q2+1.5T	46
Load Case 243	1.35(G+R2)+C+0.9Q2+1.5T	46
Load Case 244	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 245	1.35G+R2+C+0.9Q2+1.5T	47
Load Case 246	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	47
Load Case 247	G+1.35R2+C+1.2W+0.9Q2+1.5T	47
Load Case 248	1.35G+R2+C+1.2W+0.9Q2+1.5T	47
Load Case 249	1.35(G+R2)+C+0.9Q2+1.5T	47
Load Case 250	G+1.35R2+C+0.9Q2+1.5T	47
Load Case 251	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	48
Load Case 253	G+1.35R2+C+1.2W+0.9Q2+1.5T	48
Load Case 254	1.35G+R2+C+1.2W+0.9Q2+1.5T	48
Load Case 255	1.35(G+R2)+C+0.9Q2+1.5T	48
Load Case 256	G+1.35R2+C+0.9Q2+1.5T	48
Load Case 257	1.35G+R2+C+0.9Q2+1.5T	48
Load Case 258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	49
Load Case 259	G+1.35R2+C+1.2W+0.9Q2+1.5T	49
Load Case 260	1.35G+R2+C+1.2W+0.9Q2+1.5T	49
Load Case 261	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 262	G+1.35R2+C+1.2W+1.5T	49
Load Case 263	1.35G+R2+C+1.2W+1.5T	49
Load Case 264	1.35(G+R2)+C+1.2W+1.5T	49
Load Case 265	G+1.35R2+C+1.2W+1.5T	50
Load Case 266	1.35G+R2+C+1.2W+1.5T	50
Load Case 267	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 268	G+1.35R2+C+1.2W+1.5T	50
Load Case 269	1.35G+R2+C+1.2W+1.5T	50
Load Case 270	1.35(G+R2)+C+1.2W+1.5T	50
Load Case 271	G+1.35R2+C+1.2W+1.5T	50
Load Case 272	1.35G+R2+C+1.2W+1.5T	50

Introduction	52
--------------	----

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311	G+C+R1+0.2(W+Q1)+EA1	53
Load Case 312	G+C+R1+0.2(W+Q1)-EA1	53
Load Case 313	G+C+R1+0.2(W+Q1)+ES1	53
Load Case 321	G+C+R2+0.2(W+Q2)+EA2	53
Load Case 322	G+C+R2+0.2(W+Q2)-EA2	53

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 323 G+C+R2+0.2(W+Q2)+ES2	53
--	----

Introduction	54
--------------------	----

ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C	55
Load Case 411 G+C+R1	55
Load Case 412 G+C+R1+W	55
Load Case 413 G+C+R1+Q1	55
Load Case 414 G+C+R1+W+Q1	55
Load Case 415 G+C+R1+T	55
Load Case 416 G+C+R1+T	55
Load Case 417 G+C+R1+T	55
Load Case 418 G+C+R1+T	55
Load Case 421 G+C+R2	56
Load Case 422 G+C+R2+W	56
Load Case 423 G+C+R2+Q2	56
Load Case 424 G+C+R2+W+Q2	56
Load Case 425 G+C+R2+T	56
Load Case 426 G+C+R2+T	56
Load Case 427 G+C+R2+T	56
Load Case 428 G+C+R2+T	56

Introduction	57
--------------------	----

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Introduction	58
Conclusion	58

Introduction	62
--------------------	----

ΑΠΟΤΕΛΕΣΜΑΤΑ

Spring force LC: 124 Nodal displacement vector LC: 124	63
Beam Elements , Normal force Nx LC: 124 Beam Elements , Shear force Vz LC: 124 Beam Elements ,	64
Spring force LC: 140 Nodal displacement vector LC: 140	65
Beam Elements , Normal force Nx LC: 140 Beam Elements , Shear force Vz LC: 140 Beam Elements ,	66
Spring force LC: 150 Nodal displacement vector LC: 150	67
Beam Elements , Normal force Nx LC: 150 Beam Elements , Shear force Vz LC: 150 Beam Elements ,	68
Spring force LC: 201 Nodal displacement vector LC: 201	69
Beam Elements , Normal force Nx LC: 201 Beam Elements , Shear force Vz LC: 201 Beam Elements ,	70
Spring force LC: 268 Nodal displacement vector LC: 268	71
Beam Elements , Normal force Nx LC: 268 Beam Elements , Shear force Vz LC: 268 Beam Elements ,	72
Spring force LC: 311 Nodal displacement vector LC: 311	73
Beam Elements , Normal force Nx LC: 311 Beam Elements , Shear force Vz LC: 311 Beam Elements ,	74
Spring force LC: 312 Nodal displacement vector LC: 312	75
Beam Elements , Normal force Nx LC: 312 Beam Elements , Shear force Vz LC: 312 Beam Elements ,	76
Spring force LC: 323 Nodal displacement vector LC: 323	77
Beam Elements , Normal force Nx LC: 323 Beam Elements , Shear force Vz LC: 323 Beam Elements ,	78
Spring force LC: 411 Nodal displacement vector LC: 411	79
Beam Elements , Normal force Nx LC: 411 Beam Elements , Shear force Vz LC: 411 Beam Elements ,	80
Spring force LC: 428 Nodal displacement vector LC: 428	81
Beam Elements , Normal force Nx LC: 428 Beam Elements , Shear force Vz LC: 428 Beam Elements ,	82

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -

•	Introduction	83
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	84
	Combination rule Number 1	84
	Load Case selection	84
	Generated Load Cases	86
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1121 Supporting springs , Spring force LC: 1122	87
	Nodal displacement in global Y LC: 1113 Nodal displacement in global Y LC: 1114	88
	Nodal displacement in global X LC: 1111 Nodal displacement in global X LC: 1112	89
	Beam Elements , Normal force Nx LC: 1101 Beam Elements , Bending moment My LC: 1101	90
	Beam Elements , Normal force Nx LC: 1102 Beam Elements , Bending moment My LC: 1102	91
	Beam Elements , Normal force Nx LC: 1103 Beam Elements , Bending moment My LC: 1103	92
	Beam Elements , Normal force Nx LC: 1104 Beam Elements , Bending moment My LC: 1104	93
	Beam Elements , Shear force Vz LC: 1105 Beam Elements , Shear force Vz LC: 1106	94
•	Introduction	95
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	96
	Combination rule Number 2	96
	Load Case selection	96
	Generated Load Cases	96
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1221 Supporting springs , Spring force LC: 1222	97
	Nodal displacement in global Y LC: 1213 Nodal displacement in global Y LC: 1214	98
	Nodal displacement in global X LC: 1211 Nodal displacement in global X LC: 1212	99
	Beam Elements , Normal force Nx LC: 1201 Beam Elements , Bending moment My LC: 1201	100
	Beam Elements , Normal force Nx LC: 1202 Beam Elements , Bending moment My LC: 1202	101
	Beam Elements , Normal force Nx LC: 1203 Beam Elements , Bending moment My LC: 1203	102
	Beam Elements , Normal force Nx LC: 1204 Beam Elements , Bending moment My LC: 1204	103
	Beam Elements , Shear force Vz LC: 1205 Beam Elements , Shear force Vz LC: 1206	104
•	Introduction	105
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ	
	Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	106
	Combination rule Number 3	106
	Load Case selection	106
	Generated Load Cases	106
	ΠΕΡΙΒΑΛΛΟΥΣΕΣ	
	Supporting springs , Spring force LC: 1321 Supporting springs , Spring force LC: 1322	107
	Nodal displacement in global Y LC: 1313 Nodal displacement in global Y LC: 1314	108
	Nodal displacement in global X LC: 1311 Nodal displacement in global X LC: 1312	109
	Beam Elements , Normal force Nx LC: 1301 Beam Elements , Bending moment My LC: 1301	110
	Beam Elements , Normal force Nx LC: 1302 Beam Elements , Bending moment My LC: 1302	111
	Beam Elements , Normal force Nx LC: 1303 Beam Elements , Bending moment My LC: 1303	112
	Beam Elements , Normal force Nx LC: 1304 Beam Elements , Bending moment My LC: 1304	113
	Beam Elements , Shear force Vz LC: 1305 Beam Elements , Shear force Vz LC: 1306	114
	ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)	
	Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	115
	Materials	115

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Selected Beam Elements	115
Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures	115
Shear Design	115
Longitudinal Reinforcements - Design case No. 1	116
Maximum Utilisation Level	119

ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	120
Materials	120
Selected Beam Elements	120
Nonlinear Stresses	120
Parameters for Nonlinear Stresses	120
Maximum Stresses and Checked Limits	120
Longitudinal Reinforcements - Design case No. 2	120

ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ

Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 1 Beam Elements , Longitudinal Reinforce	124
Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 2 Beam Elements , Longitudinal Reinforce	125
Shear reinforcements (maximum)	126

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)
Snow load zone : 1

Mat 1 C 35/45 (EN 1992)

Young's modulus	E	34077	[N/mm ²]	Safetyfactor	1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	35.00 [MPa]
Shear modulus	G	14199	[N/mm ²]	Nominal strength	fck	35.00 [MPa]
Compression modulus	K	18932	[N/mm ²]	Tensile strength	fctm	3.21 [MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	2.25 [MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	4.17 [MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	3.37 [MPa]
				Service strength	fcm	43.00 [MPa]
				Fatigue strength	fcd,fat	17.06 [MPa]
				Tensile strength	fctd	1.50 [MPa]
				Tensile failure energy	Gf	0.14 [N/mm]

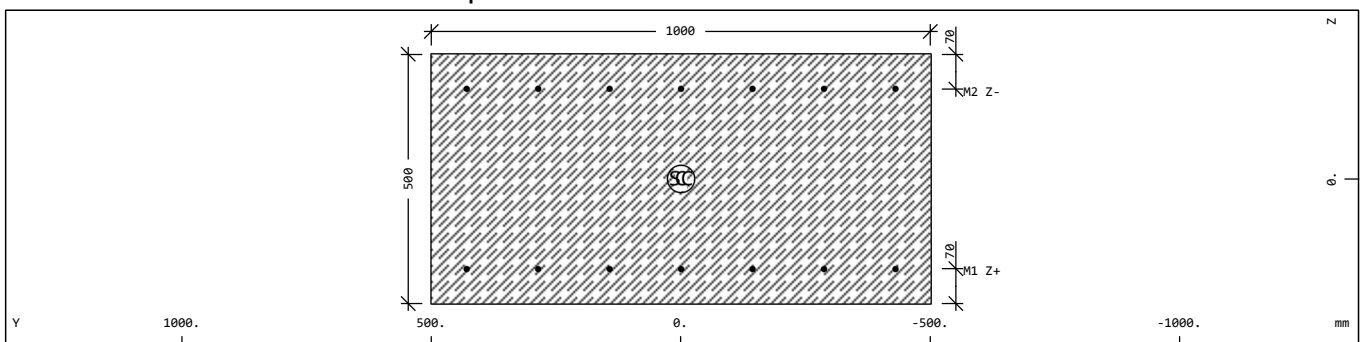
Mat 2 B 500 C (EN 1992)

Young's modulus	E	200000	[N/mm ²]	Safetyfactor	1.15	[-]
Poisson's ratio	μ	0.30	[-]	Yield stress	fy	500.00 [MPa]
Shear modulus	G	76923	[N/mm ²]	Compressive yield	fyc	500.00 [MPa]
Compression modulus	K	166667	[N/mm ²]	Tensile strength	ft	575.00 [MPa]
Nominal Weight	γ	78.5	[kN/m ³]	Compressive strength	fc	575.00 [MPa]
Mean density	ρ	7850.0	[kg/m ³]	Ultimate strain		75.00 [o/oo]
Elongation coefficient	α	1.20E-05	[1/K]	relative bond coeff.		1.00 [-]
max. thickness	t-max	32.00	[mm]	EN 1992 bond coeff.	k1	0.80 [-]
				Hardening modulus	Eh	0.00 [MPa]
				Proportional limit	fp	500.00 [MPa]
				Dynamic allowance	σ-dyn	152.17 [MPa]

Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Young's modulus	E	5000000	[N/mm ²]	Safetyfactor	1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	20.00 [MPa]
Shear modulus	G	2083333	[N/mm ²]	Nominal strength	fck	20.00 [MPa]
Compression modulus	K	2777778	[N/mm ²]	Tensile strength	fctm	2.21 [MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.55 [MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	2.87 [MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.32 [MPa]
				Service strength	fcm	28.00 [MPa]
				Fatigue strength	fcd,fat	10.43 [MPa]
				Tensile strength	fctd	1.03 [MPa]
				Tensile failure energy	Gf	0.13 [N/mm]

Cross section No. 1 - Πλάκα Πυθμένα



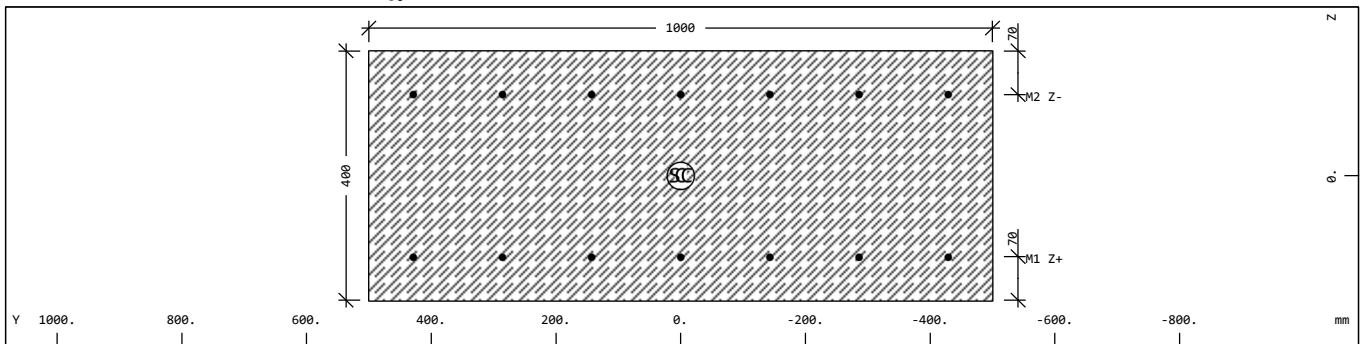
Cross section No. 1 - Πλάκα Πυθμένα

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
1	1	5.0000E-01	4.167E-01	1.042E-02	0.0	0.0	34077	1250.0	4.167E-02
	2	2.859E-02	4.167E-01	4.167E-02	0.0	0.0	14199	(CENTR)	1.042E-02
= Πλάκα Πυθμένα									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 2 - Τοίχοι

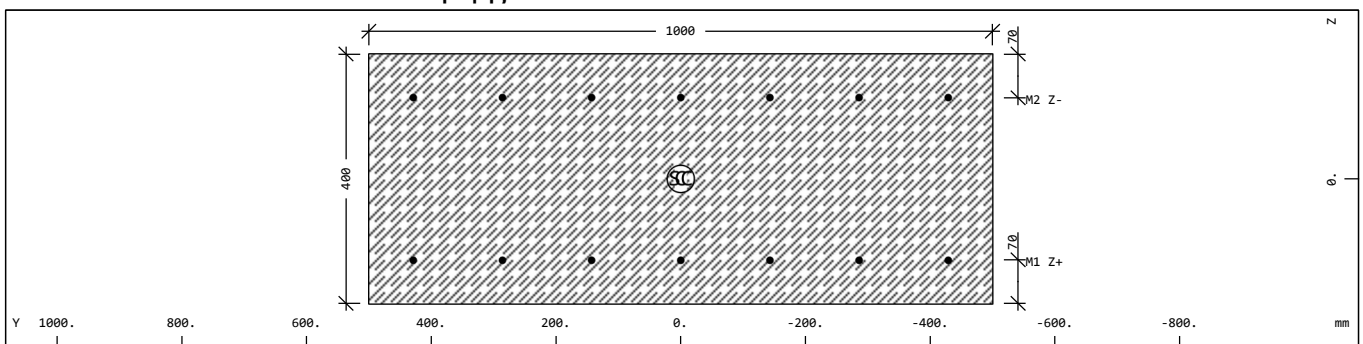


Cross section No. 2 - Τοίχοι

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
2	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	34077	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	14199	(CENTR)	5.333E-03
= Τοίχοι									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 3 - Πλάκα Οροφής



Cross section No. 3 - Πλάκα Οροφής

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
3	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	34077	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	14199	(CENTR)	5.333E-03
= Πλάκα Οροφής									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups

Grp	number	Type	min-no	max-no	Designation
0	33	SPRI	1	33	Έδραση
1	32	BEAM	101	132	Πυθμένας
2	15	BEAM	201	215	Τοίχος (Αρ)
3	15	BEAM	301	315	Τοίχος (Δεξ)
4	24	BEAM	401	424	Πλάκα
5	16	SPRI	501	516	Πλ. Έδραση (Αρ)
6	16	SPRI	601	616	Πλ. Έδραση (Δεξ)
Grp primary group number number number of elements within group Type element type min-no,max-no minimum/maximum element number					

Summary of beam elements

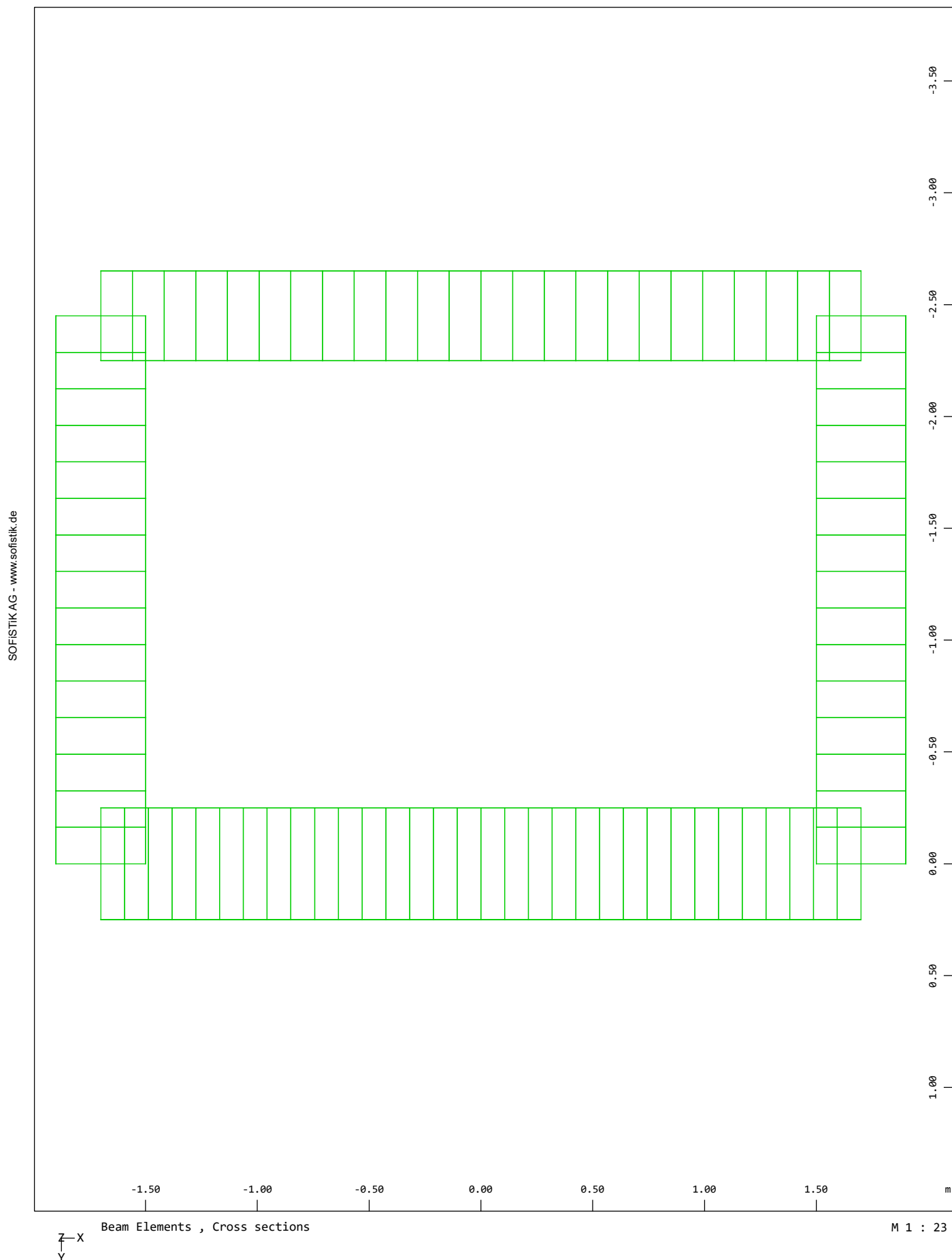
Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]
1	3.400	0.106	1.700	4.250
2	2.450	0.163	0.980	2.450
3	2.450	0.163	0.980	2.450
4	3.400	0.142	1.360	3.400
Sum	11.700		5.020	12.550
Grp primary group number				

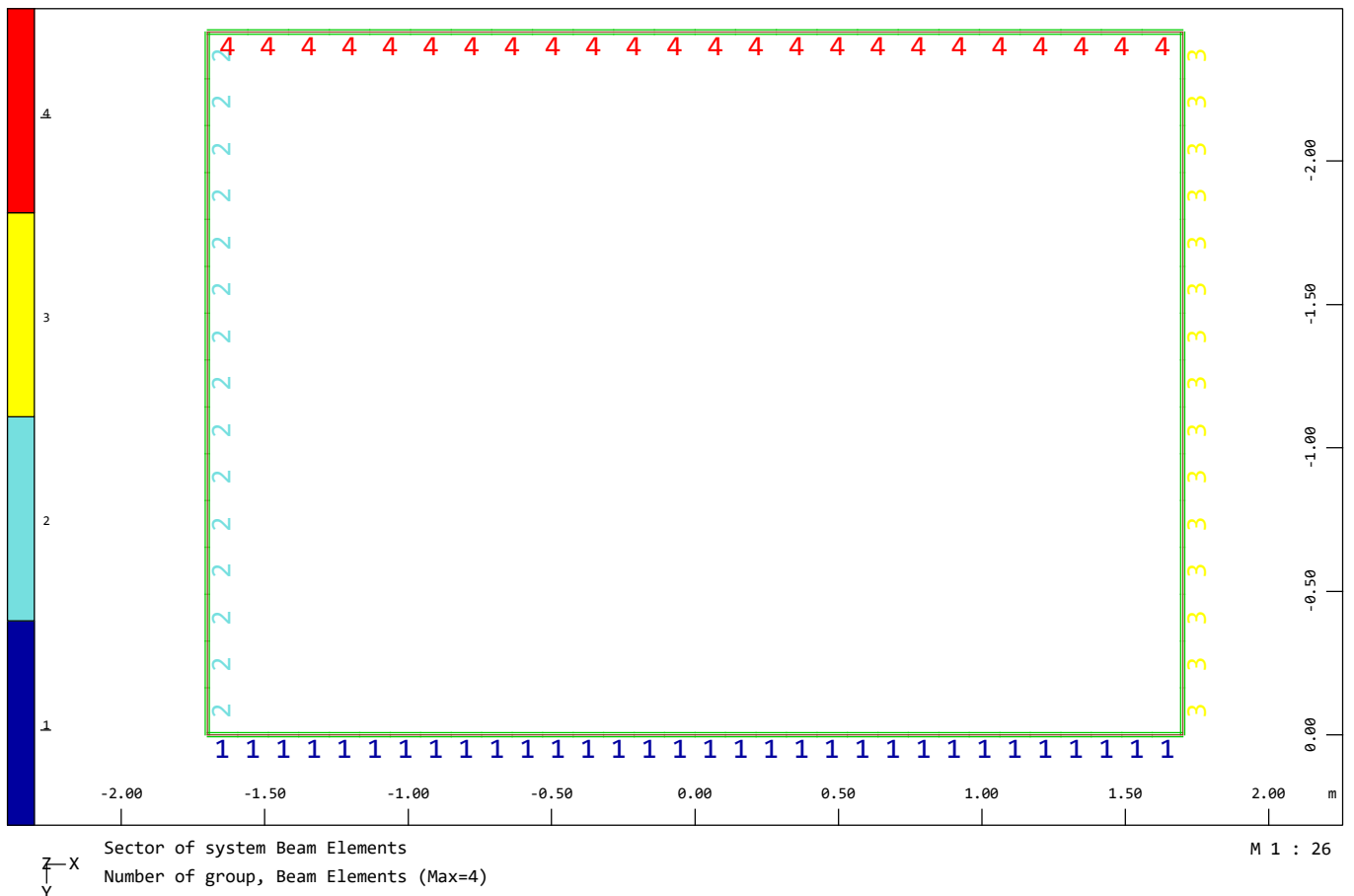
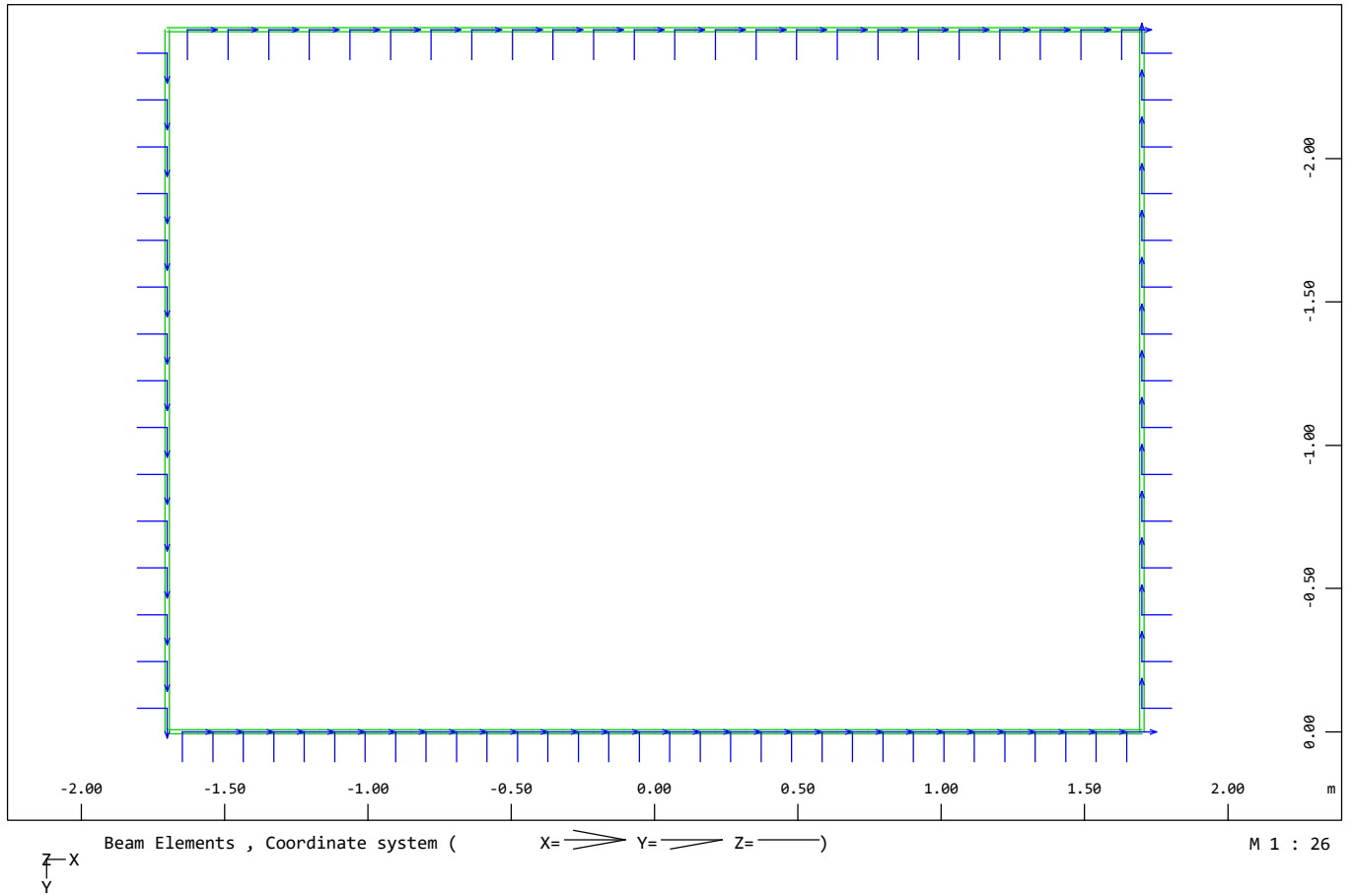
Cross sections

SNo	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Designation
1	3.400	0.106	1.700	4.250	Πλάκα Πυθμένα
2	4.900	0.163	1.960	4.900	Τοίχοι
3	3.400	0.142	1.360	3.400	Πλάκα Οροφής
Sum	11.700		5.020	12.550	
SNo section number					

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



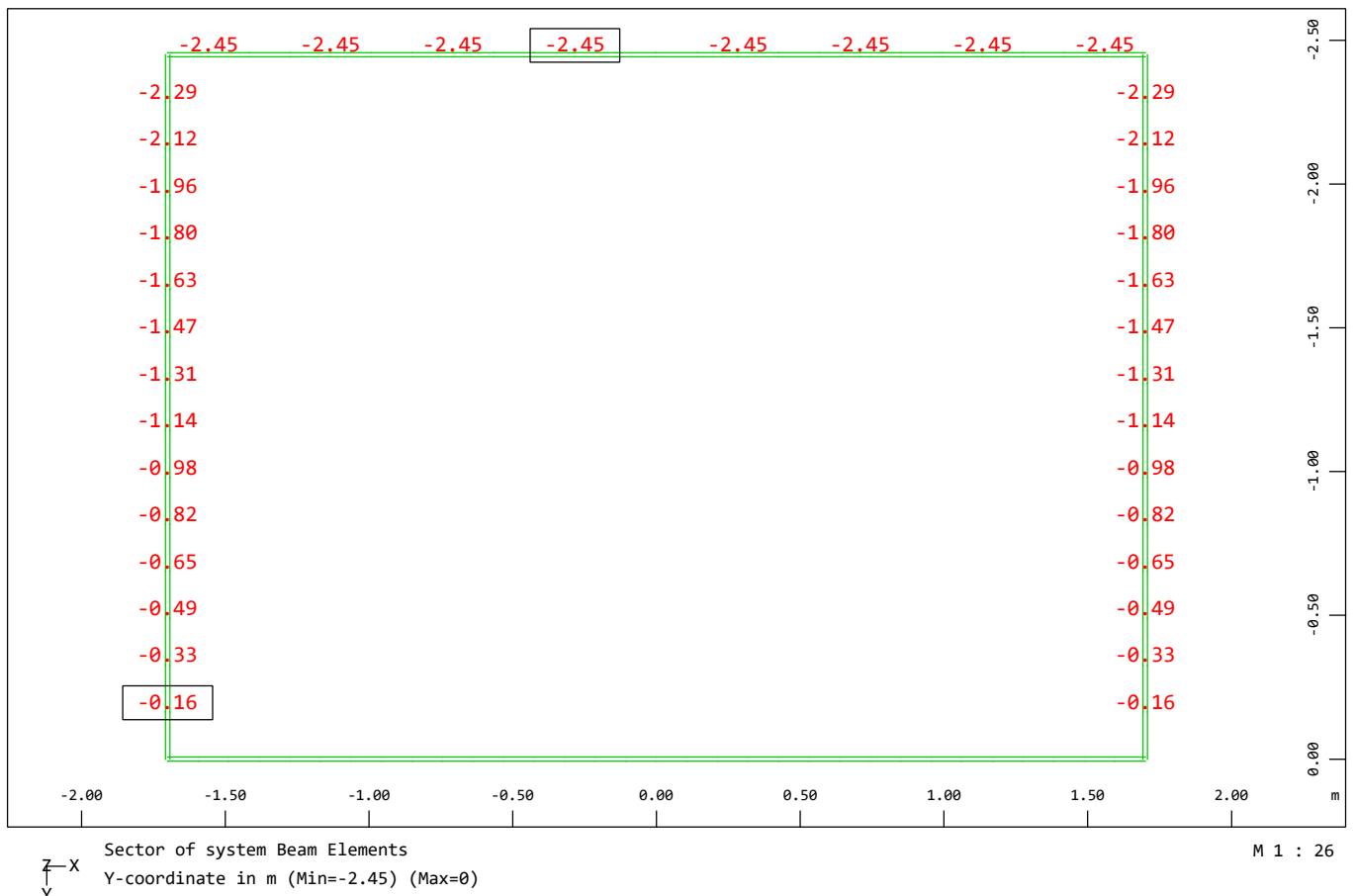
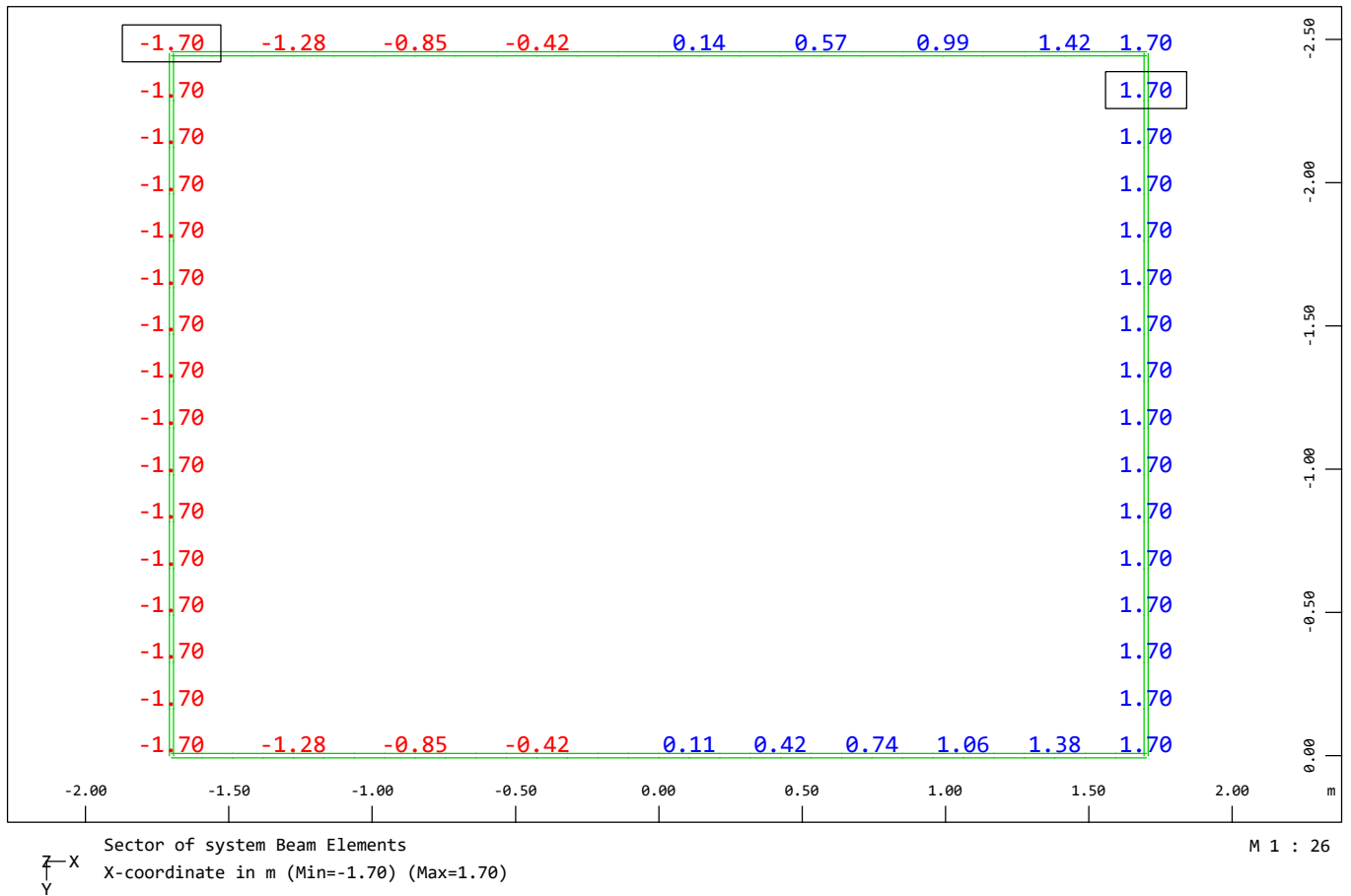
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



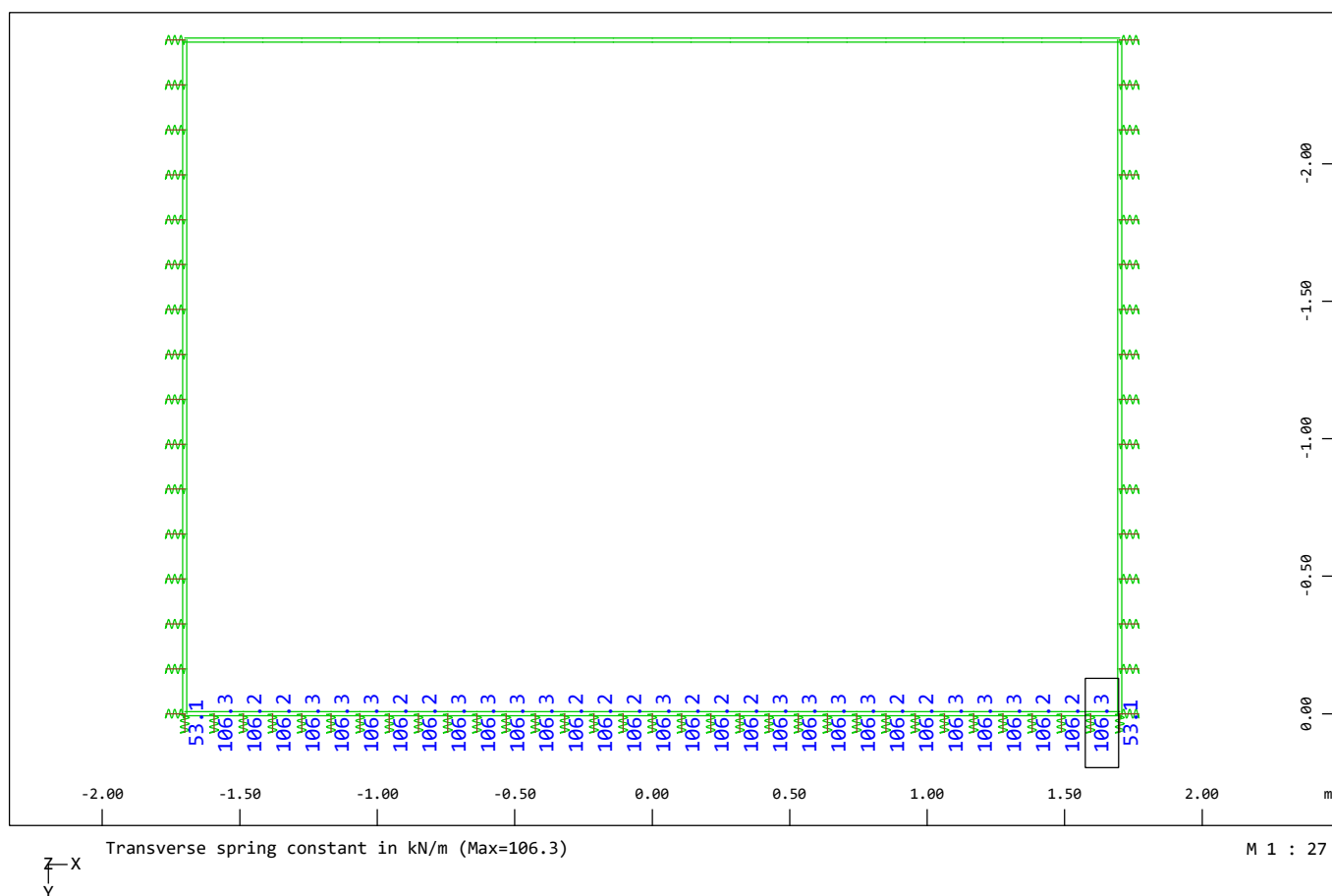
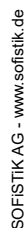
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- ΑΓΩΓΟΣ Α2 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΣΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

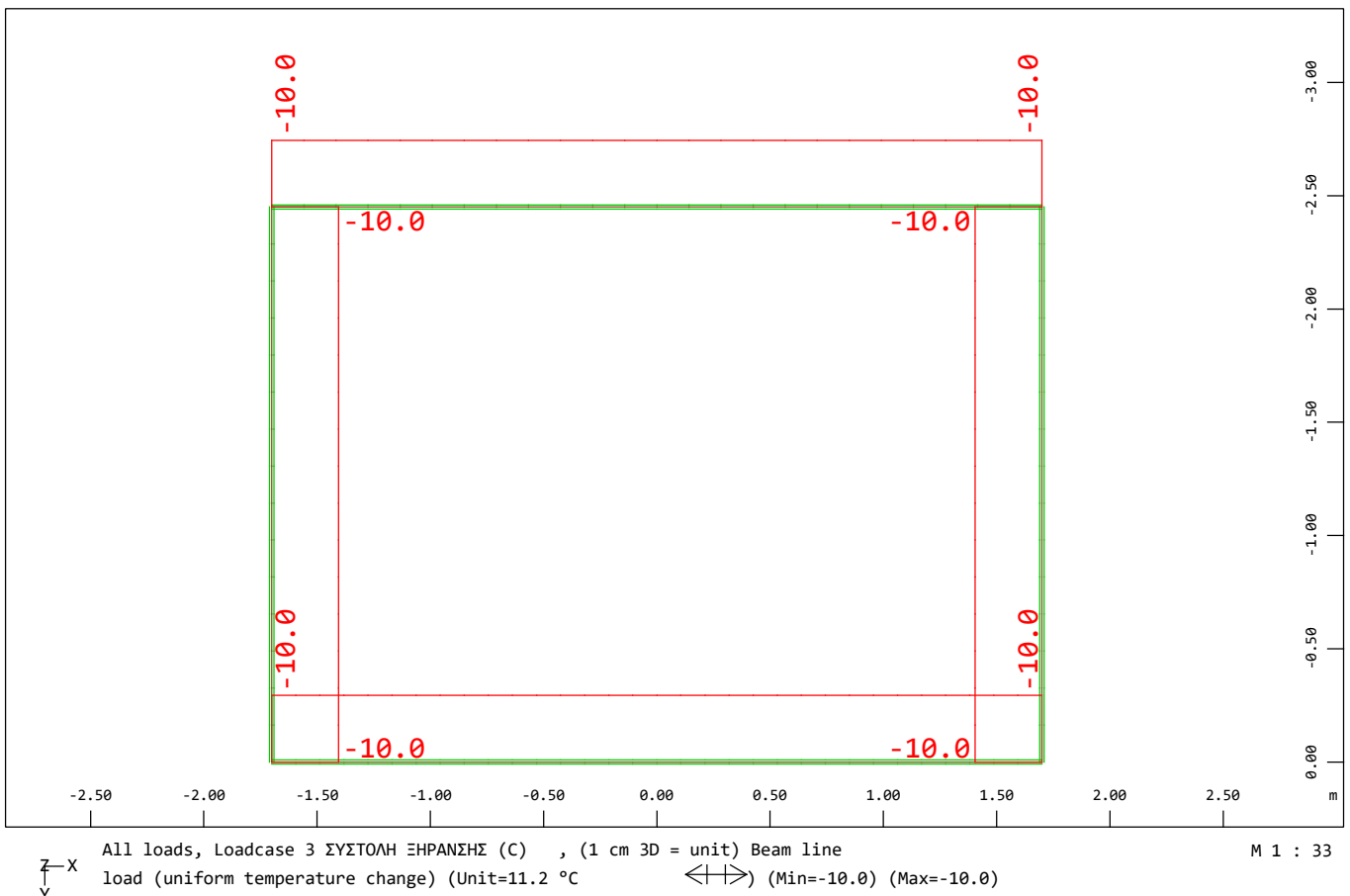
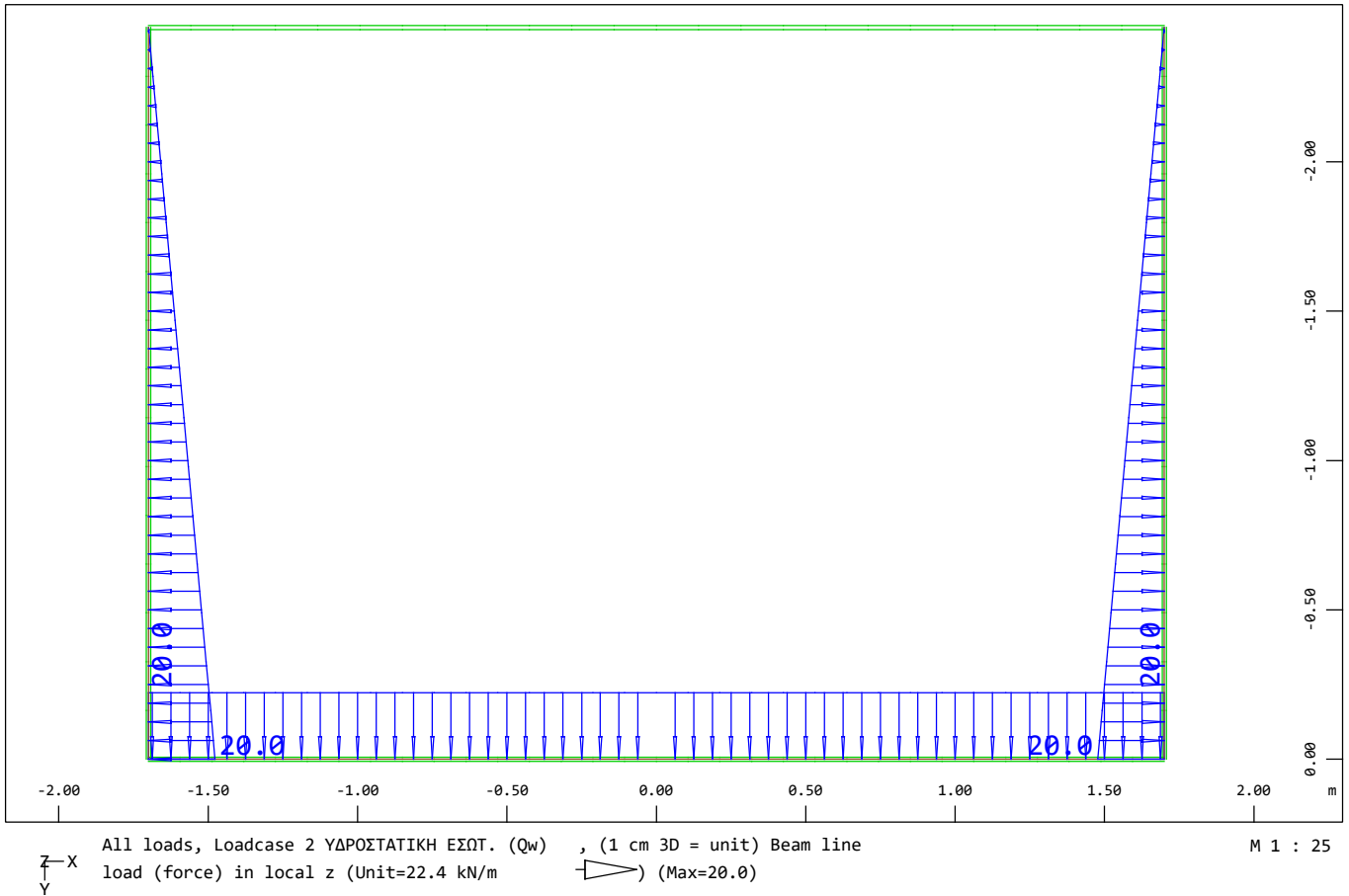
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ΟΡΙΣΜΟΣ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

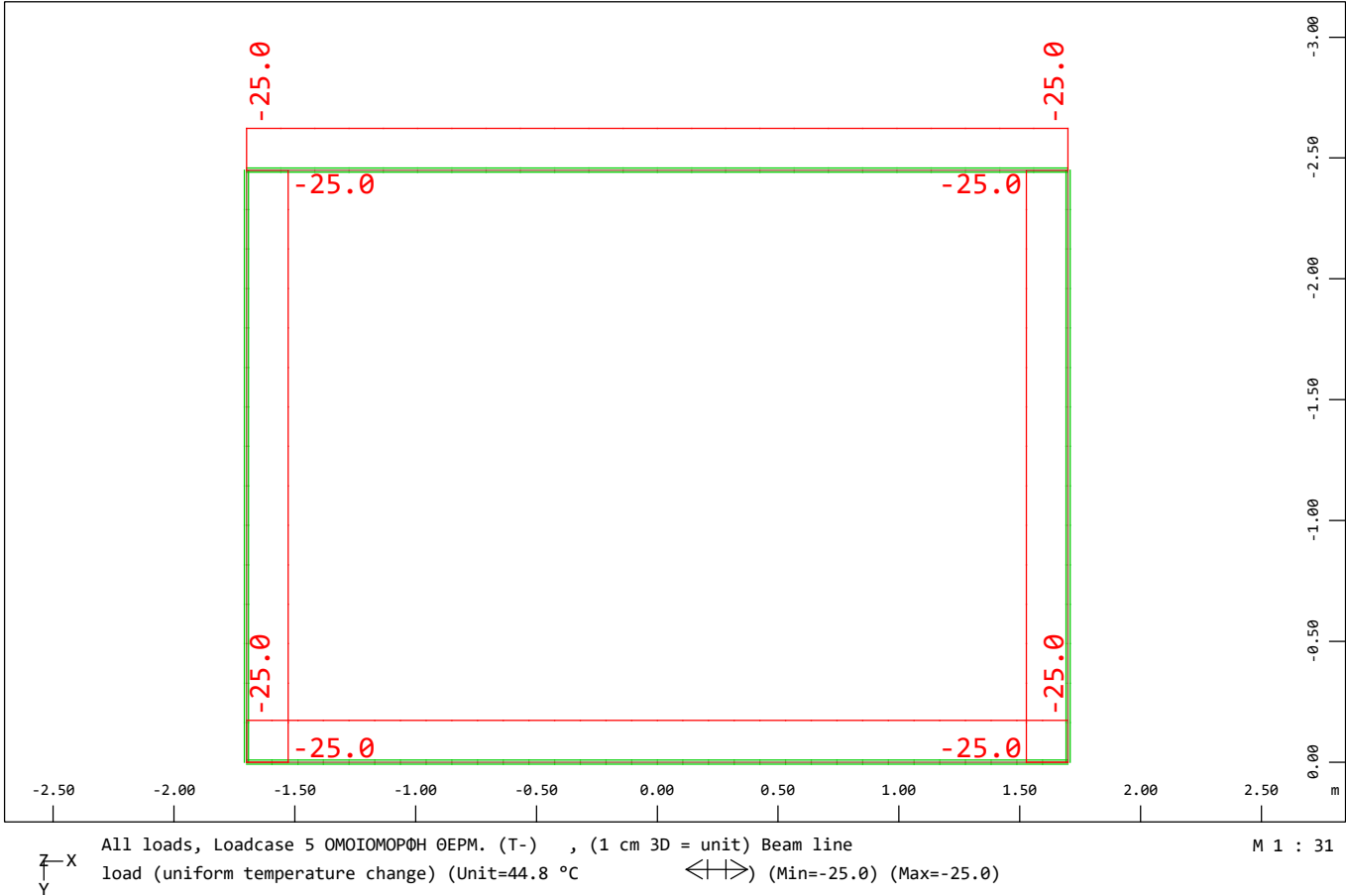
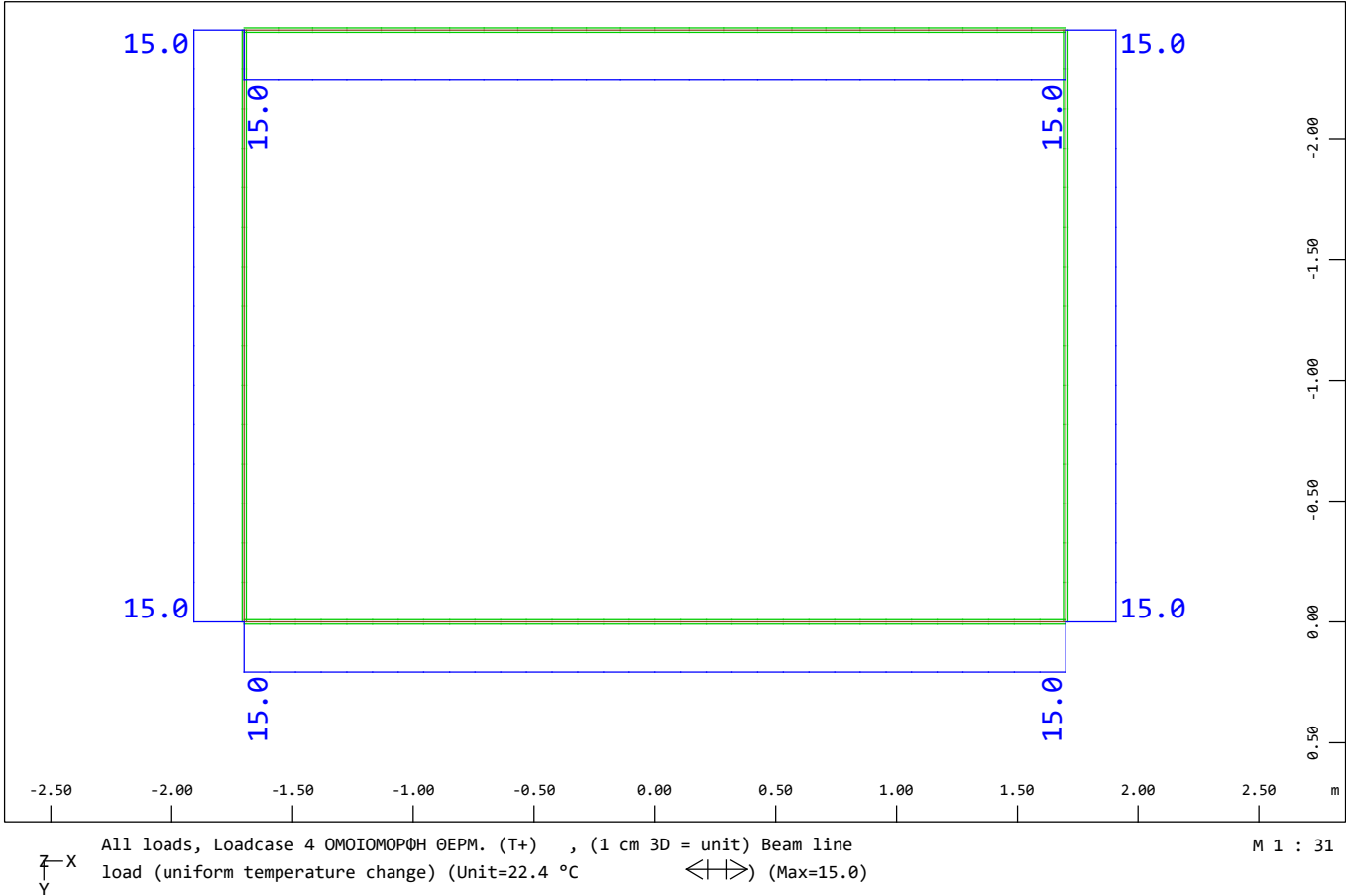
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case	1 ΙΔΙΟ ΒΑΡΟΣ (G)	
Factor forces and moments		1.000
Factor dead weight	DL-YY	1.000
Load Case	2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	
Factor forces and moments		1.000
Load Case	3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	
Factor forces and moments		1.000
Load Case	4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	
Factor forces and moments		1.000
Load Case	5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	
Factor forces and moments		1.000
Load Case	6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	
Factor forces and moments		1.000
Load Case	7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	
Factor forces and moments		1.000
Load Case	11 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=1.1) (R1)	
Factor forces and moments		1.000
Load Case	12 ΚΙΝΗΤΑ (Hεπ.=1.1) (Q1)	
Factor forces and moments		1.000
Load Case	13 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (EA1)	
Factor forces and moments		1.000
Load Case	14 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=1.1) (ES1)	
Factor forces and moments		1.000
Load Case	21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=2.1) (R2)	
Factor forces and moments		1.000
Load Case	22 ΚΙΝΗΤΑ (Hεπ.=2.1) (Q2)	
Factor forces and moments		1.000
Load Case	23 ΑΝΤΙΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (EA2)	
Factor forces and moments		1.000
Load Case	24 ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜ(Hεπ=2.1) (ES2)	
Factor forces and moments		1.000

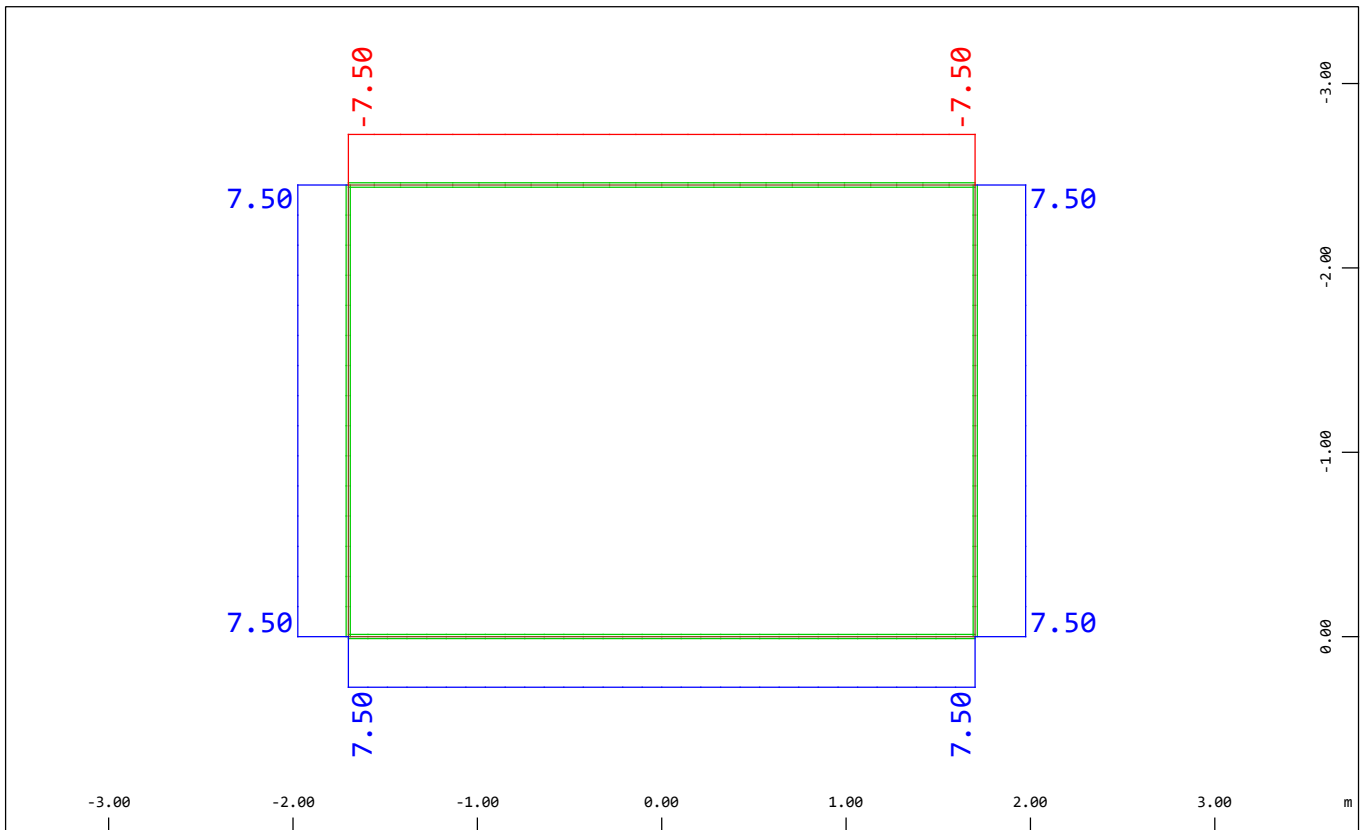
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΥΔΡΟΣΤΑΤΙΚΗ ΠΙΕΣΗ & ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ



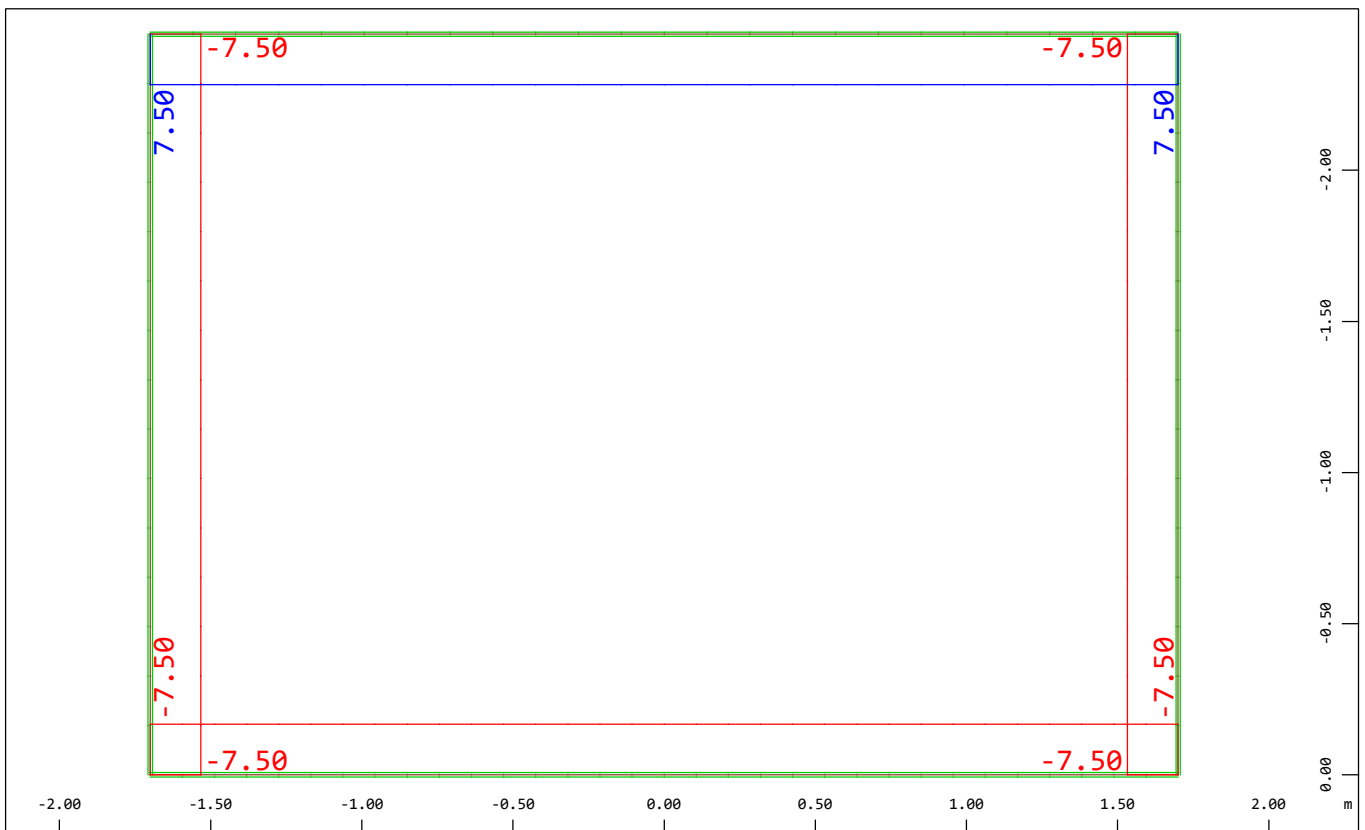
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 - ΑΓΩΓΟΣ Α2 -
 ΦΟΡΤΙΑ ΟΜΟΙΟΜΟΡΦΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ T+ & T-



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΦΟΡΤΙΑ ΚΑΜΠΤΙΚΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ dT+ & dT-

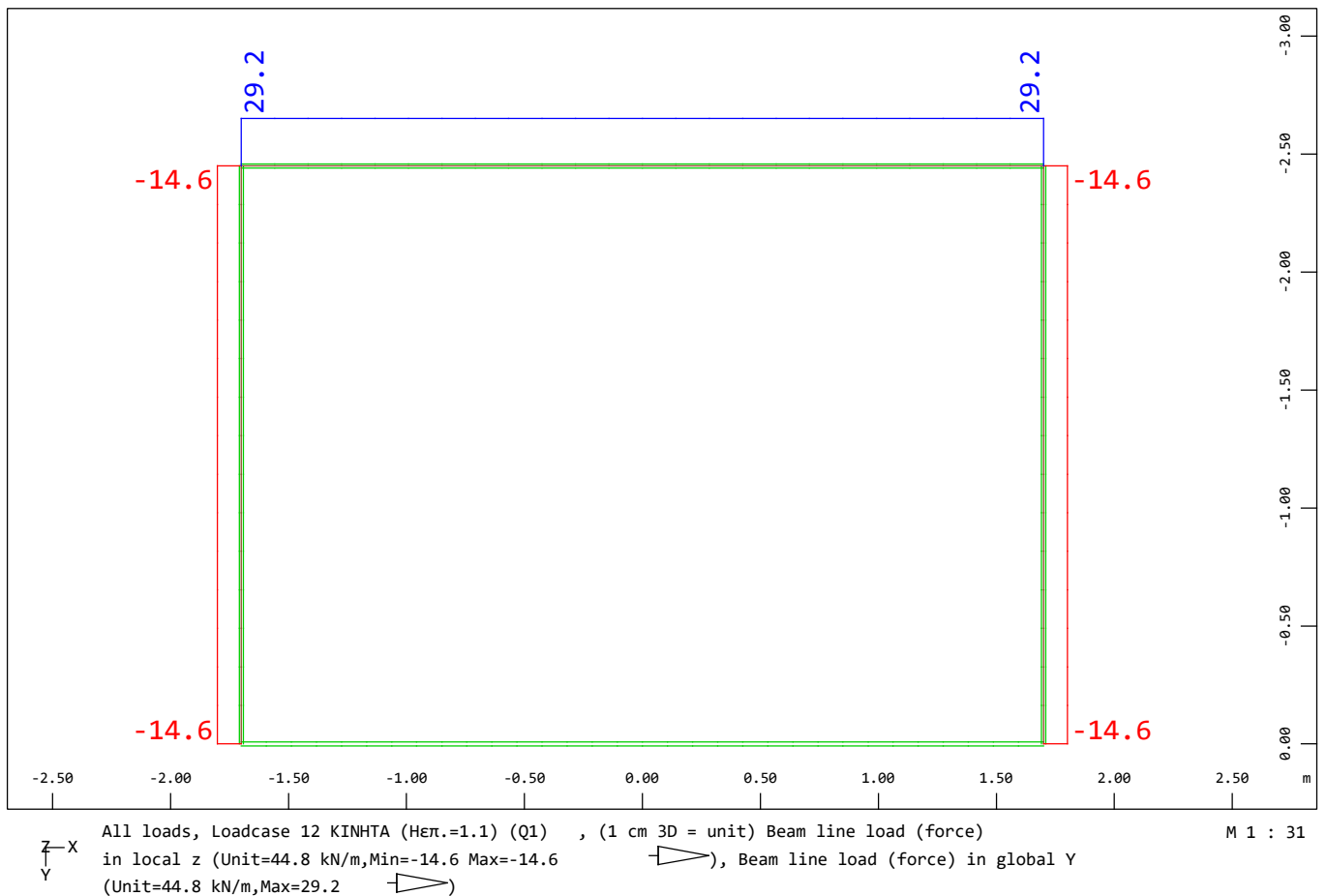
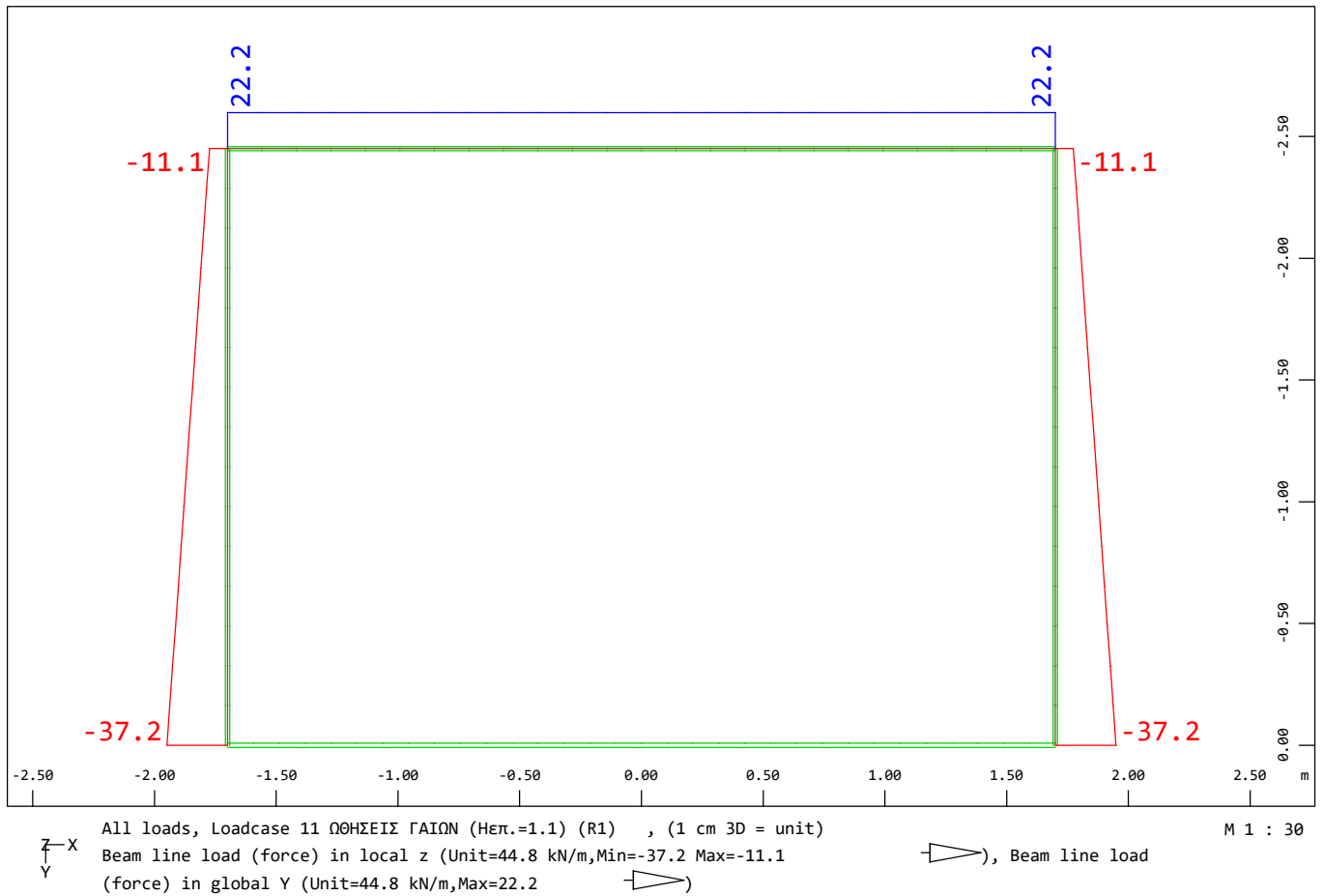


All loads, Loadcase 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+) , (1 cm 3D = unit) Beam line load (temperature increase) in local z (Unit=11.2 °C) (Min=-7.50) (Max=7.50) M 1 : 41

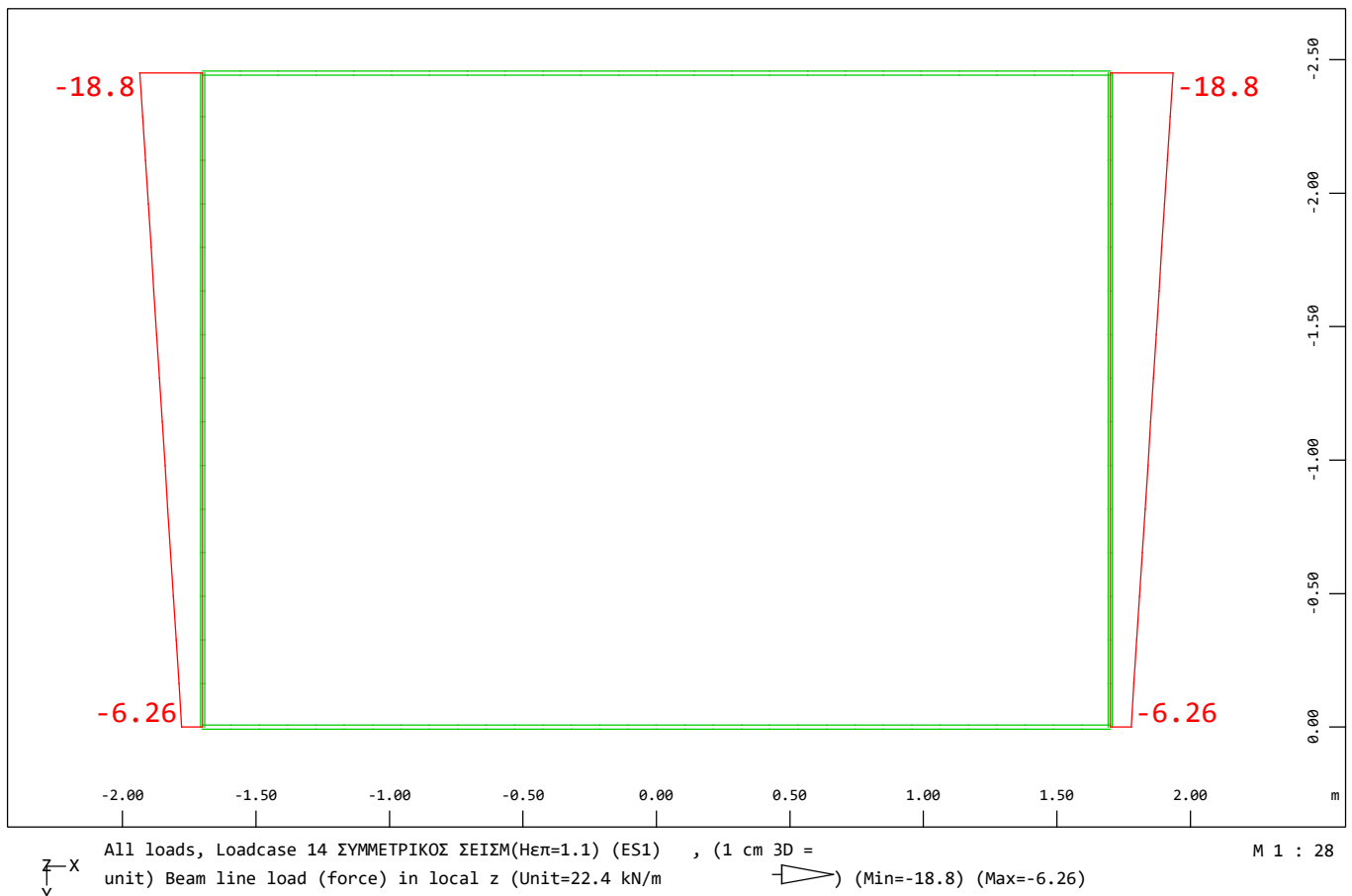
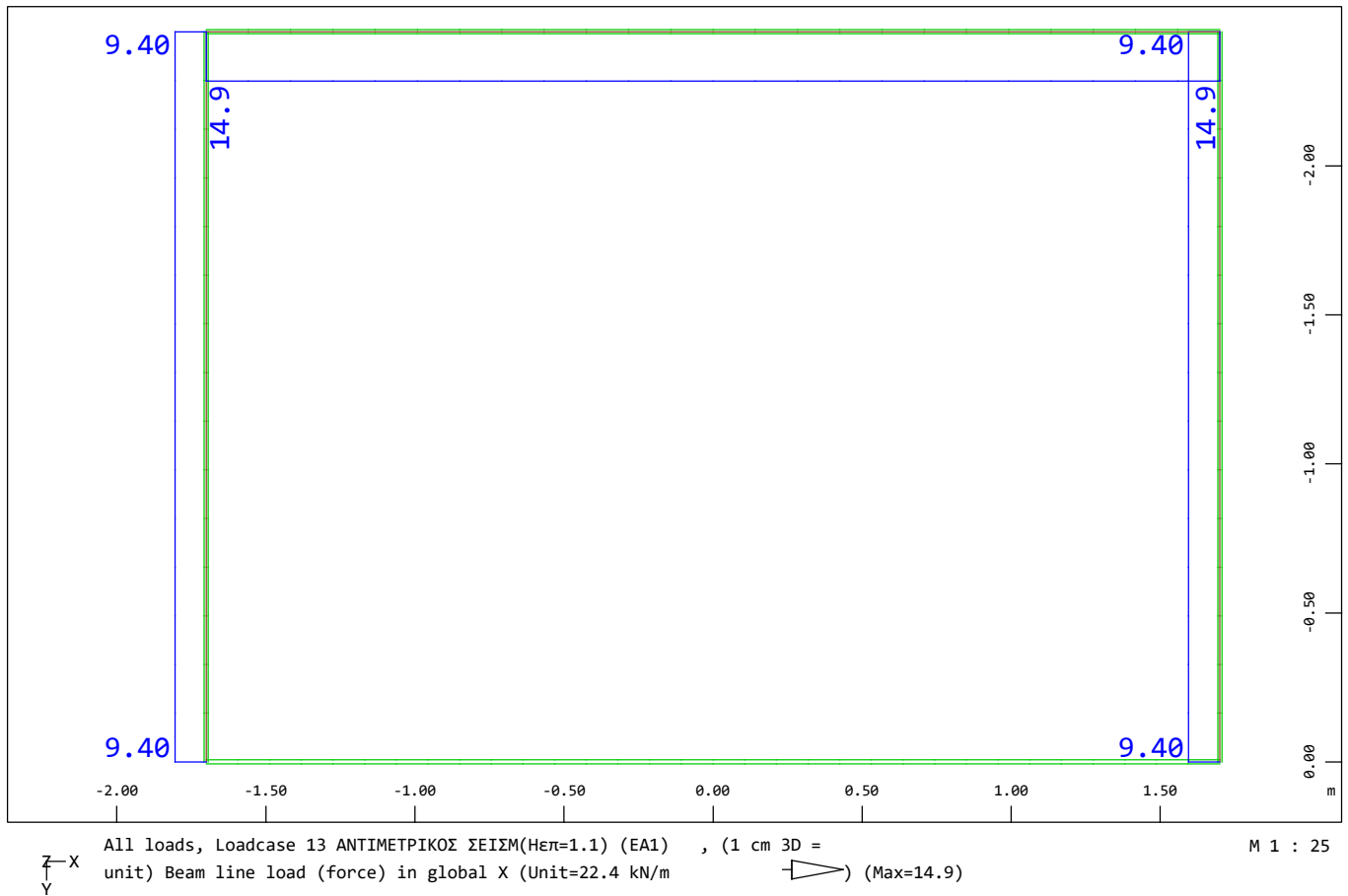


All loads, Loadcase 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-) , (1 cm 3D = unit) Beam line load (temperature increase) in local z (Unit=11.2 °C) (Min=-7.50) (Max=7.50) M 1 : 25

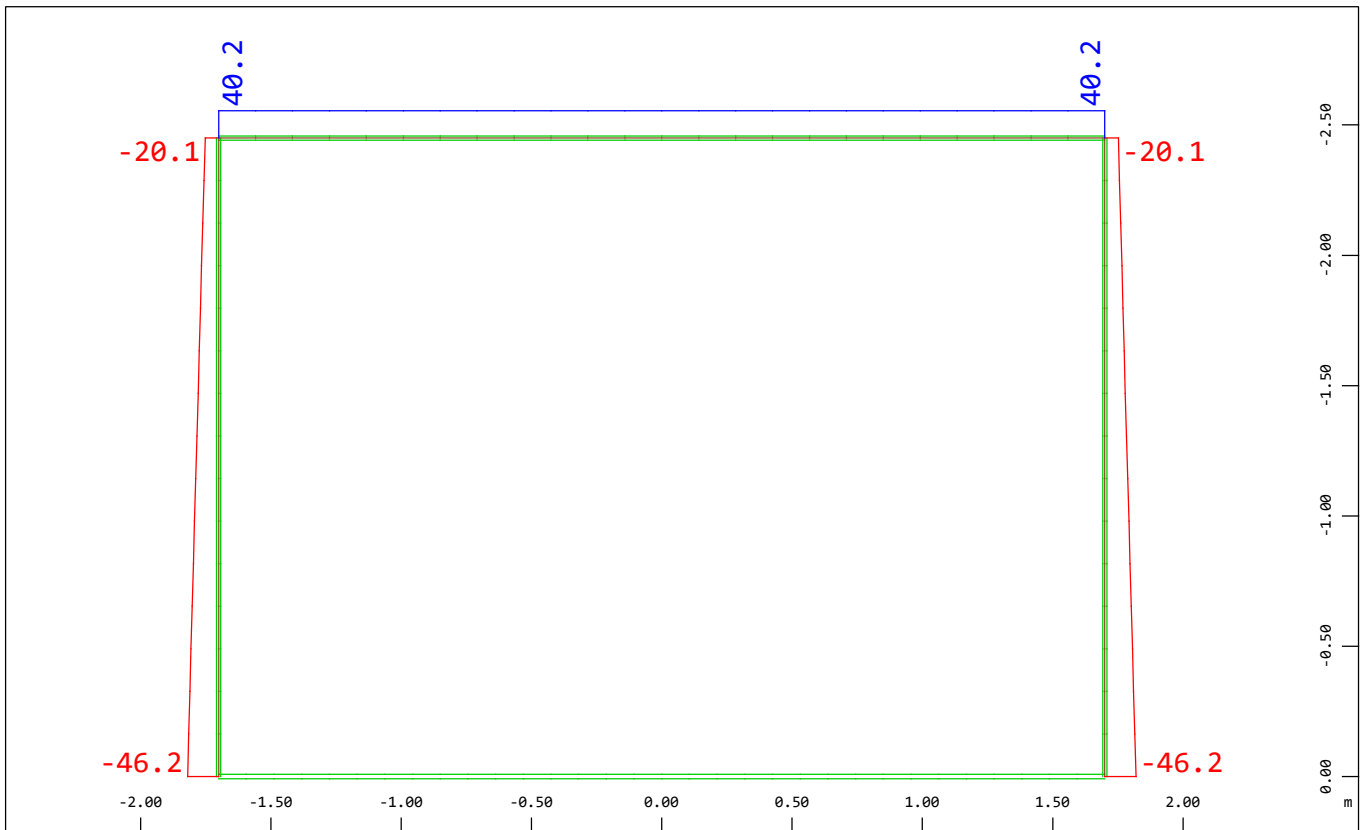
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 1: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 1.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ

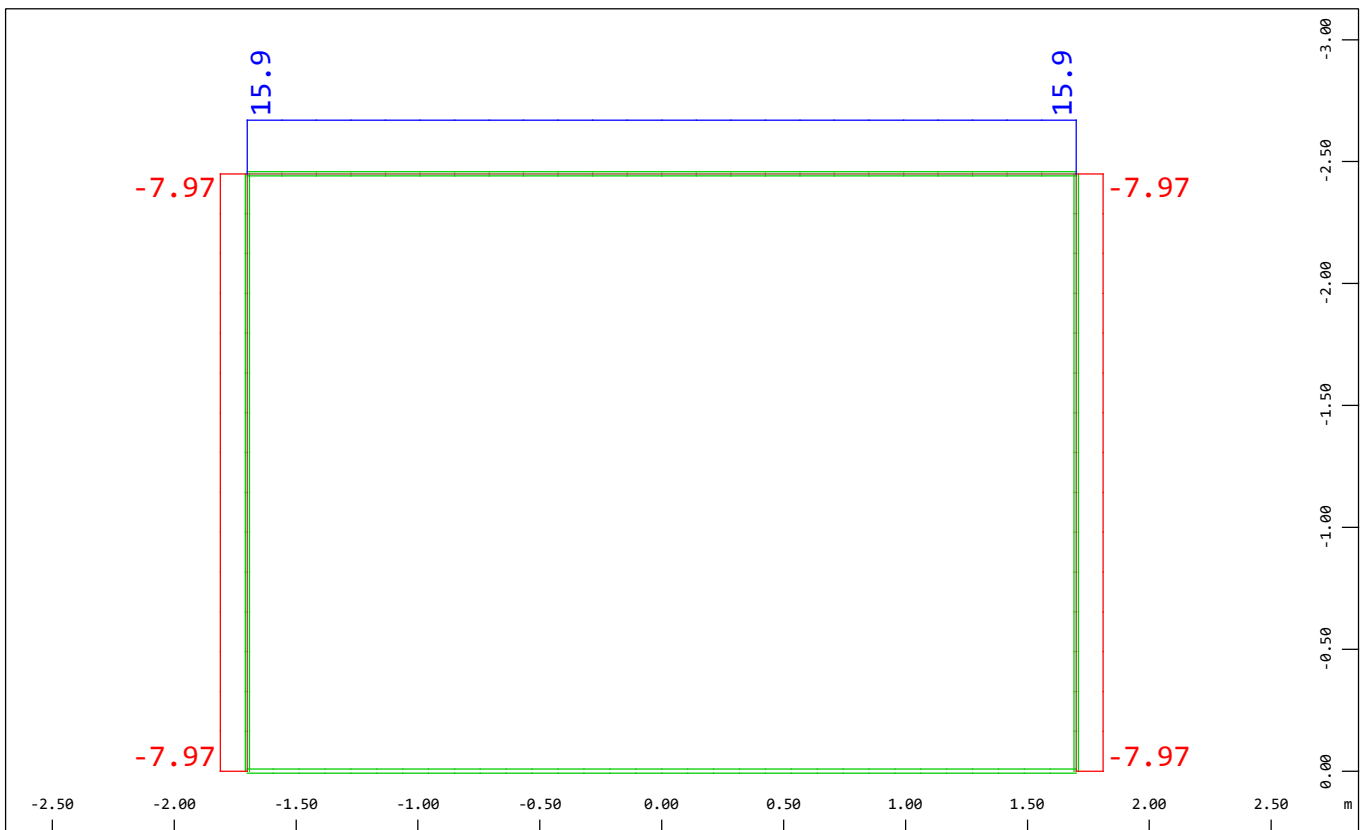


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



All loads, Loadcase 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=2.1) (R2) , (1 cm 3D = unit)
Beam line load (force) in local z (Unit=112.1 kN/m,Min=-46.2 Max=-20.1
load (force) in global Y (Unit=112.1 kN/m,Max=40.2

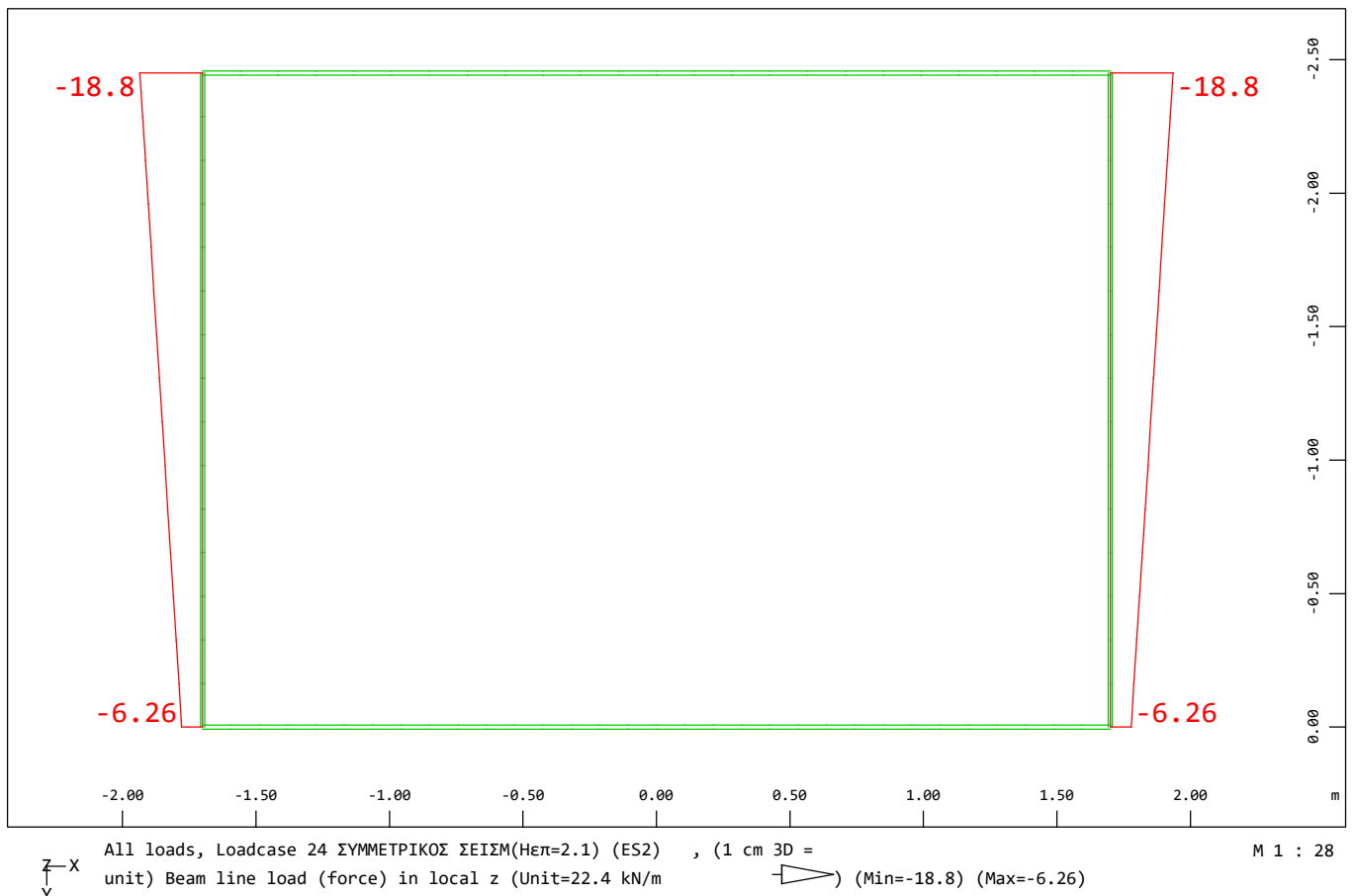
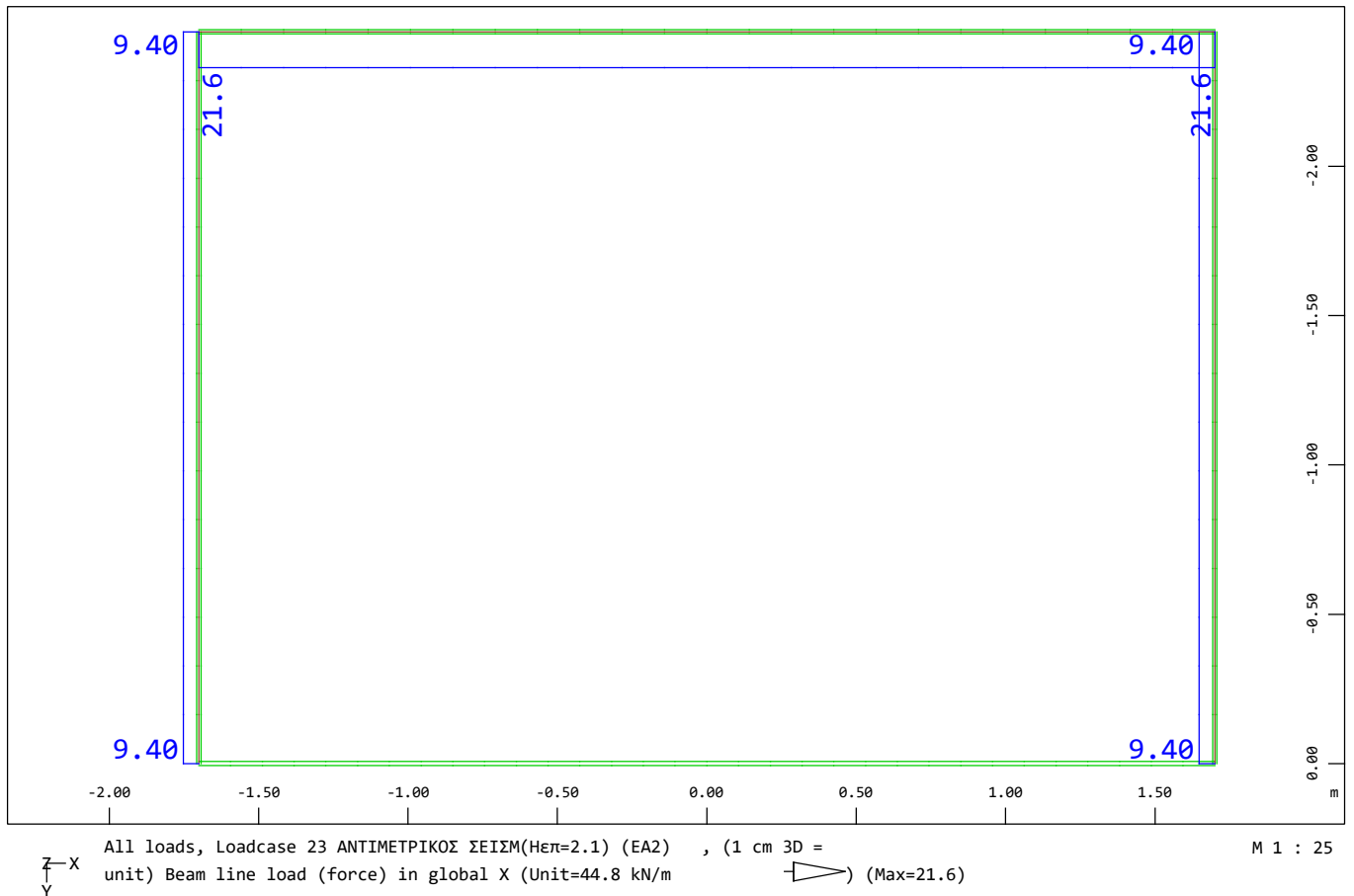
M 1 : 29



All loads, Loadcase 22 ΚΙΝΗΤΑ (Heπ.=2.1) (Q2) , (1 cm 3D = unit) Beam line load (force)
in local z (Unit=22.4 kN/m,Min=-7.97 Max=-7.97
(Unit=22.4 kN/m,Max=15.9

M 1 : 31

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 2.1μ / ΑΝΤΙΜΕΤΡΙΚΟΣ & ΣΥΜΜΕΤΡΙΚΟΣ ΣΕΙΣΜΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΦΟΡΤΙΣΕΩΝ ΣΧΕΔΙΑΣΜΟΥ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	100	1.35G+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Load Case	101	1.35(G+R1)+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	102	G+1.35R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Load Case	103	1.35G+R1+C		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Load Case	104	1.35(G+R1)+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	105	G+1.35R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Load Case	106	1.35G+R1+C+1.2W		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Load Case	107	1.35(G+R1)+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500
Load Case	108	G+1.35R1+C+1.5Q1		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 109 1.35G+R1+C+1.5Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	

Load Case 110 1.35(G+R1)+C+1.2W+1.5Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	

Load Case 111 G+1.35R1+C+1.2W+1.5Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	

Load Case 112 1.35G+R1+C+1.2W+1.5Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	

Load Case 113 1.35(G+R1)+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 114 G+1.35R1+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 115 1.35G+R1+C+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 116 1.35(G+R1)+C+1.2W+1.5Q1+0.75T

Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	11 with factor	1.350
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 117 G+1.35R1+C+1.2W+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	11 with factor	1.350
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 118 1.35G+R1+C+1.2W+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	11 with factor	1.000
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	4 with factor	0.750

Load Case 119 1.35(G+R1)+C+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	11 with factor	1.350
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	5 with factor	0.750

Load Case 120 G+1.35R1+C+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	11 with factor	1.350
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	5 with factor	0.750

Load Case 121 1.35G+R1+C+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	11 with factor	1.000
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	5 with factor	0.750

Load Case 122 1.35(G+R1)+C+1.2W+1.5Q1+0.75T

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	11 with factor	1.350
Selected loads	copied from load case	12 with factor	1.500
Selected loads	copied from load case	5 with factor	0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 123 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 124 $1.35G+R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 125 $1.35(G+R1)+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 126 $G+1.35R1+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 127 $1.35G+R1+C+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 128 $1.35(G+R1)+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 129 $G+1.35R1+C+1.2W+1.5Q1+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 130 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 6 with factor 0.750

Load Case 131 1.35(G+R1)+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 132 G+1.35R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 133 1.35G+R1+C+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 134 1.35(G+R1)+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 135 G+1.35R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

Load Case 136 1.35G+R1+C+1.2W+1.5Q1+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 12 with factor 1.500
 Selected loads copied from load case 7 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 137 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 138 G+1.35R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 139 1.35G+R1+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 141 G+1.35R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 142 1.35G+R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 143 1.35(G+R1)+C+0.9Q1+1.5T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 144 $G+1.35R1+C+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 145 $1.35G+R1+C+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 146 $1.35(G+R1)+C+1.2W+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 147 $G+1.35R1+C+1.2W+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 148 $1.35G+R1+C+1.2W+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

Load Case 149 $1.35(G+R1)+C+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case 150 $G+1.35R1+C+0.9Q1+1.5T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	151	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	152	1.35(G+R1)+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	153	G+1.35R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	154	1.35G+R1+C+1.2W+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	155	1.35(G+R1)+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	156	G+1.35R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.350
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	157	1.35G+R1+C+0.9Q1+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		11 with factor	1.000
Selected loads	copied from load case		12 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 158 1.35(G+R1)+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 159 G+1.35R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 160 1.35G+R1+C+1.2W+0.9Q1+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case 161 1.35(G+R1)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 162 G+1.35R1+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 163 1.35G+R1+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 164 1.35(G+R1)+C+1.2W+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 165 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 5 with factor 1.500

Load Case 166 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 5 with factor 1.500

Load Case 167 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 168 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 169 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.000
 Selected loads copied from load case 6 with factor 1.500

Load Case 170 1.35(G+R1)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 171 G+1.35R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 11 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 172 1.35G+R1+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	172	1.35G+R1+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	
Load Case	201	1.35(G+R2)+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	202	G+1.35R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	203	1.35G+R2+C		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	204	1.35(G+R2)+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	205	G+1.35R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	206	1.35G+R2+C+1.2W		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	207	1.35(G+R2)+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Load Case	208	G+1.35R2+C+1.5Q2		
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 209 1.35G+R2+C+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 210 1.35(G+R2)+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 211 G+1.35R2+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 212 1.35G+R2+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 213 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 214 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 215 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 217 G+1.35R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 218 1.35G+R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 219 1.35(G+R2)+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 220 G+1.35R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 221 1.35G+R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 222 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	223	G+1.35R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case	224	1.35G+R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case	225	1.35(G+R2)+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	226	G+1.35R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	227	1.35G+R2+C+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case	229	G+1.35R2+C+1.2W+1.5Q2+0.75T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 230 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 231 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 232 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 233 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 234 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 235 G+1.35R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 236 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 237 1.35(G+R2)+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 238 G+1.35R2+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 239 1.35G+R2+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 241 G+1.35R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 242 1.35G+R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 243 1.35(G+R2)+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	244	$G+1.35R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	245	$1.35G+R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	246	$1.35(G+R_2)+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	247	$G+1.35R_2+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	248	$1.35G+R_2+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	249	$1.35(G+R_2)+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	250	$G+1.35R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	251	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	253	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	254	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	255	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	256	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

Load Case	257	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		7 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	259	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	260	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	261	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	262	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	263	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	264	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case **265 G+1.35R2+C+1.2W+1.5T**

Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

Load Case **266 1.35G+R2+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight		DL-YY	1.350
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	5 with factor	1.500

Load Case 267 $1.35(G+R2)+C+1.2W+1.5T$

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	6 with factor	1.500

Load Case **268 G+1.35R2+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight		DL-YY	1.000
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	6 with factor	1.500

Load Case **269 1.35G+R2+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.000
Selected loads	copied from load case	6 with factor	1.500

Load Case **270 1.35(G+R2)+C+1.2W+1.5T**

Factor forces and moments		1.000	
Factor dead weight	DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	7 with factor	1.500

Load Case 271 G+1.35R2+C+1.2W+1.5T

Factor forces and moments		1.000	
Factor dead weight		DL-YY	1.000
Selected loads	copied from load case	3 with factor	1.000
Selected loads	copied from load case	2 with factor	1.200
Selected loads	copied from load case	21 with factor	1.350
Selected loads	copied from load case	7 with factor	1.500

Load Case 272 1.35G+R2+C+1.2W+1.5T

Factor forces and moments		1.000
Factor dead weight	DL-YY	1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	272	1.35G+R2+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΣΕΙΣΜΙΚΟΙ

Load Case 311 G+C+R1+0.2(W+Q1)+EA1				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	12 with factor	0.200	
Selected loads	copied from load case	13 with factor	1.000	

Load Case 312 G+C+R1+0.2(W+Q1)-EA1				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	12 with factor	0.200	
Selected loads	copied from load case	13 with factor	-1.000	

Load Case 313 G+C+R1+0.2(W+Q1)+ES1				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	12 with factor	0.200	
Selected loads	copied from load case	14 with factor	1.000	

Load Case 321 G+C+R2+0.2(W+Q2)+EA2				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	22 with factor	0.200	
Selected loads	copied from load case	23 with factor	1.000	

Load Case 322 G+C+R2+0.2(W+Q2)-EA2				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	22 with factor	0.200	
Selected loads	copied from load case	23 with factor	-1.000	

Load Case 323 G+C+R2+0.2(W+Q2)+ES2				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	2 with factor	0.200	
Selected loads	copied from load case	22 with factor	0.200	
Selected loads	copied from load case	24 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Load Case 411 G+C+R1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 412 G+C+R1+W				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Load Case 413 G+C+R1+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 414 G+C+R1+W+Q1				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	12 with factor	1.000	
Load Case 415 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case 416 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case 417 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case 418 G+C+R1+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	11 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case	418 G+C+R1+T			
Selected loads	copied from load case	7 with factor	1.000	
Load Case	421 G+C+R2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	422 G+C+R2+W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	423 G+C+R2+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	424 G+C+R2+W+Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case	425 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case	426 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case	427 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case	428 G+C+R2+T			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Analysis parameters
 Calculation with nonlinear material properties
 Nonlinear material properties are used for:
 Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding

Only linear material properties are used for:
 QUAD- and BRIQ-elements
 Truss-, cable-, Beam-, pile- und boundaryelements
 Beamelements

Considered Load Cases

Loadcase	Σ(Reactions)		Designation
	X[kN]	Y[kN]	
100	-0.00	-169.42	1.35G+C
101	0.00	-271.31	1.35(G+R1)+C
102	0.00	-227.36	G+1.35R1+C
103	0.00	-244.90	1.35G+R1+C
104	0.00	-352.91	1.35(G+R1)+C+1.2W
105	0.00	-308.96	G+1.35R1+C+1.2W
106	0.00	-326.50	1.35G+R1+C+1.2W
107	0.00	-420.00	1.35(G+R1)+C+1.5Q1
108	0.00	-376.05	G+1.35R1+C+1.5Q1
109	0.00	-393.58	1.35G+R1+C+1.5Q1
110	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1
111	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1
112	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1
113	0.00	-420.01	1.35(G+R1)+C+1.5Q1+0.75T
114	0.00	-376.08	G+1.35R1+C+1.5Q1+0.75T
115	0.00	-393.59	1.35G+R1+C+1.5Q1+0.75T
116	0.00	-501.61	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	0.00	-457.68	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	0.00	-475.19	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	0.00	-420.19	1.35(G+R1)+C+1.5Q1+0.75T
120	0.00	-376.05	G+1.35R1+C+1.5Q1+0.75T
121	0.00	-393.77	1.35G+R1+C+1.5Q1+0.75T
122	0.00	-501.79	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	0.00	-475.37	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	0.00	-420.00	1.35(G+R1)+C+1.5Q1+0.75T
126	0.00	-376.05	G+1.35R1+C+1.5Q1+0.75T
127	0.00	-393.58	1.35G+R1+C+1.5Q1+0.75T
128	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	0.00	-420.00	1.35(G+R1)+C+1.5Q1+0.75T
132	0.00	-376.05	G+1.35R1+C+1.5Q1+0.75T
133	0.00	-393.58	1.35G+R1+C+1.5Q1+0.75T
134	0.00	-501.60	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	0.00	-457.65	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	0.00	-475.18	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
138	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
139	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
140	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	0.00	-360.47	1.35(G+R1)+C+0.9Q1+1.5T
144	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

145	0.00	-334.05	1.35G+R1+C+0.9Q1+1.5T
146	0.00	-442.07	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	0.00	-415.65	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
150	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
151	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
152	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	0.00	-360.53	1.35(G+R1)+C+0.9Q1+1.5T
156	0.00	-316.58	G+1.35R1+C+0.9Q1+1.5T
157	0.00	-334.11	1.35G+R1+C+0.9Q1+1.5T
158	0.00	-442.13	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	0.00	-398.18	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	0.00	-415.71	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
162	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
163	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
164	0.00	-352.86	1.35(G+R1)+C+1.2W+1.5T
165	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
166	0.00	-326.44	1.35G+R1+C+1.2W+1.5T
167	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
168	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
169	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
170	0.00	-352.91	1.35(G+R1)+C+1.2W+1.5T
171	0.00	-308.96	G+1.35R1+C+1.2W+1.5T
172	0.00	-326.50	1.35G+R1+C+1.2W+1.5T
201	0.00	-353.93	1.35(G+R2)+C
202	0.00	-309.98	G+1.35R2+C
203	0.00	-306.10	1.35G+R2+C
204	0.00	-435.53	1.35(G+R2)+C+1.2W
205	0.00	-391.58	G+1.35R2+C+1.2W
206	0.00	-387.70	1.35G+R2+C+1.2W
207	0.00	-435.20	1.35(G+R2)+C+1.5Q2
208	0.00	-391.25	G+1.35R2+C+1.5Q2
209	0.00	-387.36	1.35G+R2+C+1.5Q2
210	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2
211	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2
212	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2
213	0.00	-435.21	1.35(G+R2)+C+1.5Q2+0.75T
214	0.00	-391.28	G+1.35R2+C+1.5Q2+0.75T
215	0.00	-387.37	1.35G+R2+C+1.5Q2+0.75T
216	0.00	-516.81	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	0.00	-472.88	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	0.00	-468.97	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	0.00	-435.38	1.35(G+R2)+C+1.5Q2+0.75T
220	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
221	0.00	-387.54	1.35G+R2+C+1.5Q2+0.75T
222	0.00	-516.98	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	0.00	-469.14	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	0.00	-435.20	1.35(G+R2)+C+1.5Q2+0.75T
226	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
227	0.00	-387.36	1.35G+R2+C+1.5Q2+0.75T
228	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	0.00	-435.20	1.35(G+R2)+C+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

232	0.00	-391.25	G+1.35R2+C+1.5Q2+0.75T
233	0.00	-387.36	1.35G+R2+C+1.5Q2+0.75T
234	0.00	-516.80	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	0.00	-472.85	G+1.35R2+C+1.2W+1.5Q2+0.75T
236	0.00	-468.96	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
238	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
239	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
240	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	0.00	-402.63	1.35(G+R2)+C+0.9Q2+1.5T
244	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
245	0.00	-354.79	1.35G+R2+C+0.9Q2+1.5T
246	0.00	-484.23	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	0.00	-436.39	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
250	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
251	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
252	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	0.00	-402.69	1.35(G+R2)+C+0.9Q2+1.5T
256	0.00	-358.74	G+1.35R2+C+0.9Q2+1.5T
257	0.00	-354.85	1.35G+R2+C+0.9Q2+1.5T
258	0.00	-484.29	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	0.00	-440.34	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	0.00	-436.45	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
262	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
263	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
264	0.00	-435.48	1.35(G+R2)+C+1.2W+1.5T
265	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
266	0.00	-387.64	1.35G+R2+C+1.2W+1.5T
267	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
268	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
269	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
270	0.00	-435.53	1.35(G+R2)+C+1.2W+1.5T
271	0.00	-391.58	G+1.35R2+C+1.2W+1.5T
272	0.00	-387.70	1.35G+R2+C+1.2W+1.5T
311	-96.52	-234.37	G+C+R1+0.2(W+Q1)+EA1
312	96.52	-234.37	G+C+R1+0.2(W+Q1)-EA1
313	0.00	-234.37	G+C+R1+0.2(W+Q1)+ES1
321	-119.45	-286.58	G+C+R2+0.2(W+Q2)+EA2
322	119.45	-286.58	G+C+R2+0.2(W+Q2)-EA2
323	0.00	-286.58	G+C+R2+0.2(W+Q2)+ES2
400	-0.00	-125.47	G+C
411	0.00	-200.95	G+C+R1
412	0.00	-268.95	G+C+R1+W
413	0.00	-300.07	G+C+R1+Q1
414	0.00	-368.07	G+C+R1+W+Q1
415	0.00	-200.98	G+C+R1+T
416	0.00	-200.95	G+C+R1+T
417	0.00	-200.95	G+C+R1+T
418	0.00	-200.95	G+C+R1+T
421	0.00	-262.15	G+C+R2
422	0.00	-330.15	G+C+R2+W
423	0.00	-316.32	G+C+R2+Q2

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

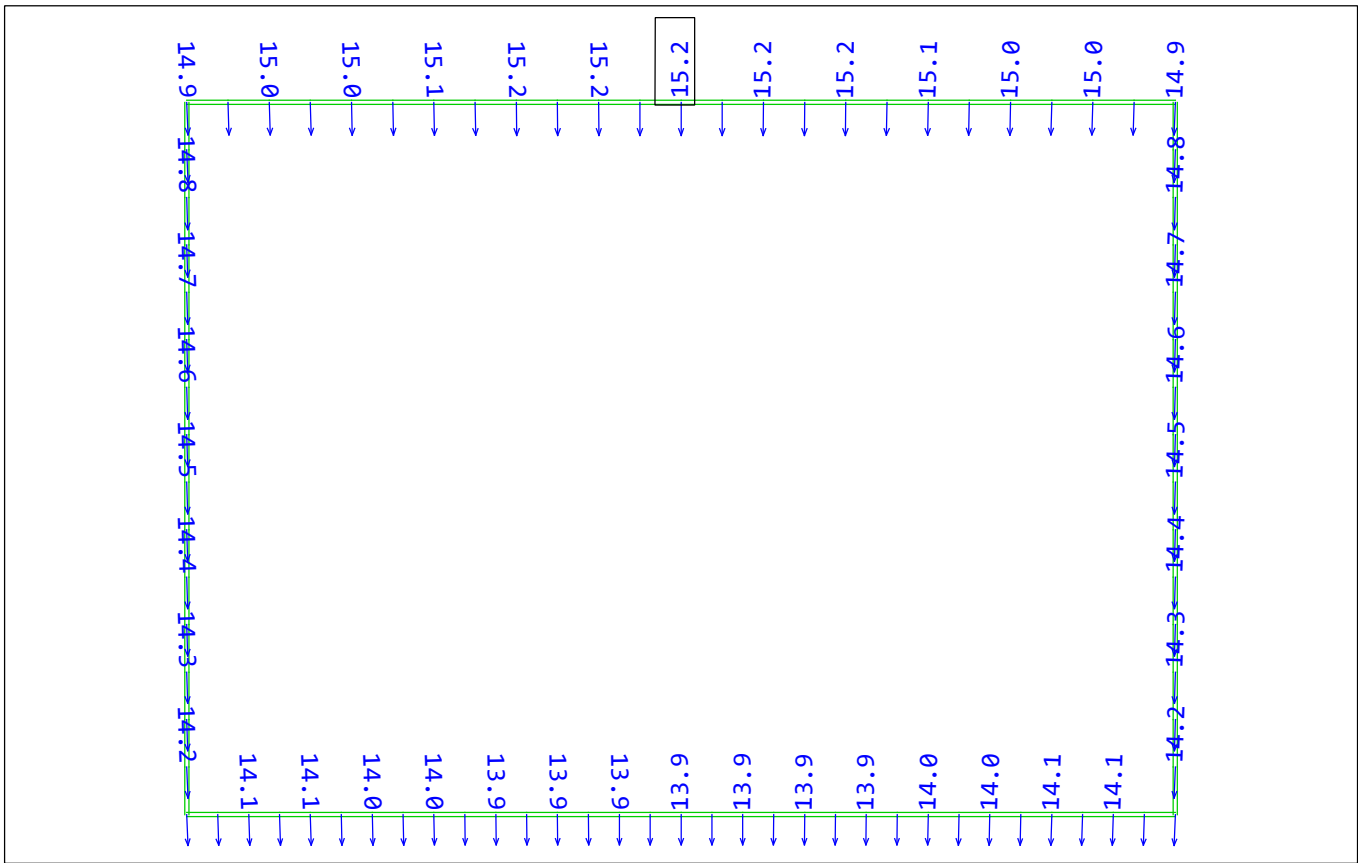
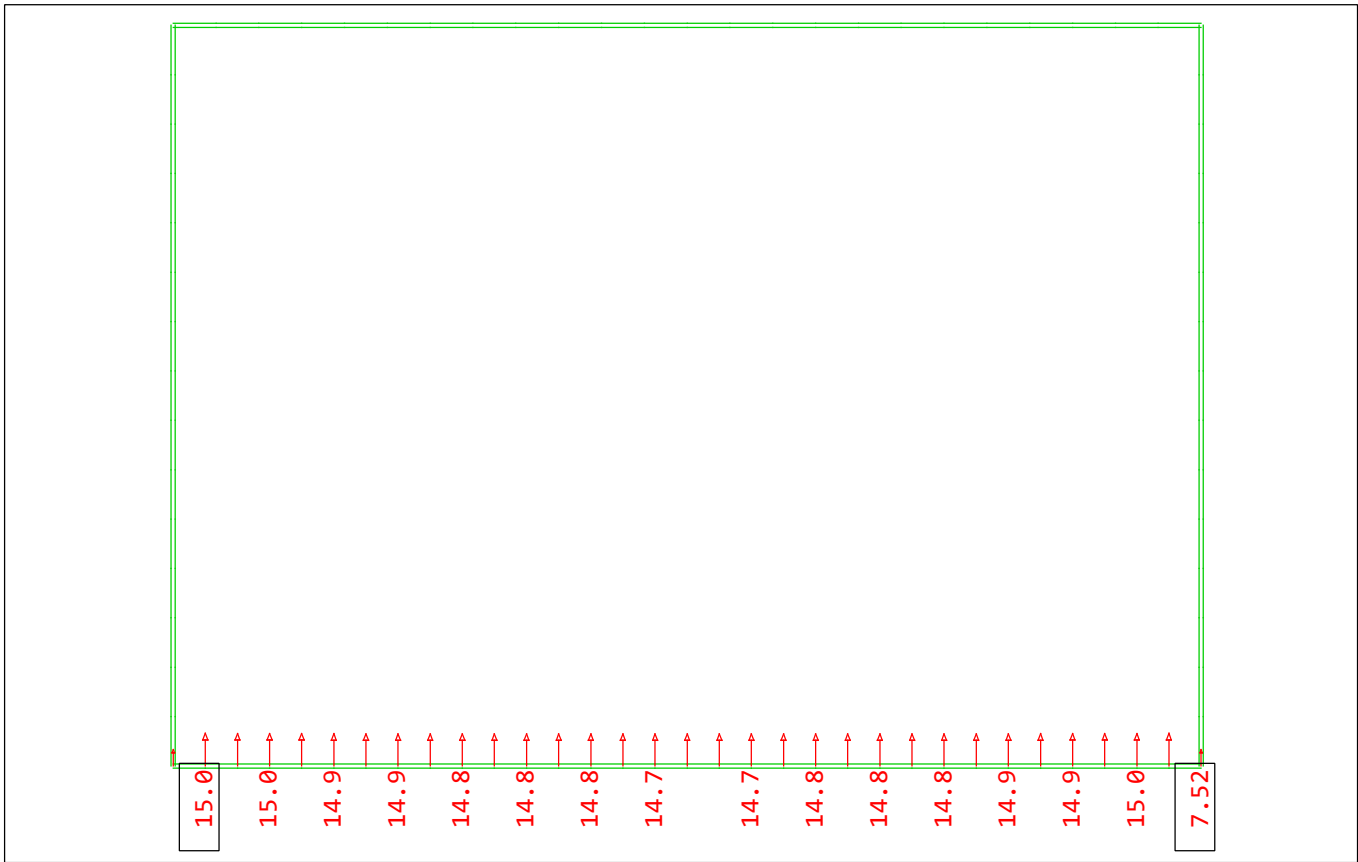
424	0.00	-384.32	G+C+R2+W+Q2
425	0.00	-262.18	G+C+R2+T
426	0.00	-262.15	G+C+R2+T
427	0.00	-262.15	G+C+R2+T
428	0.00	-262.15	G+C+R2+T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

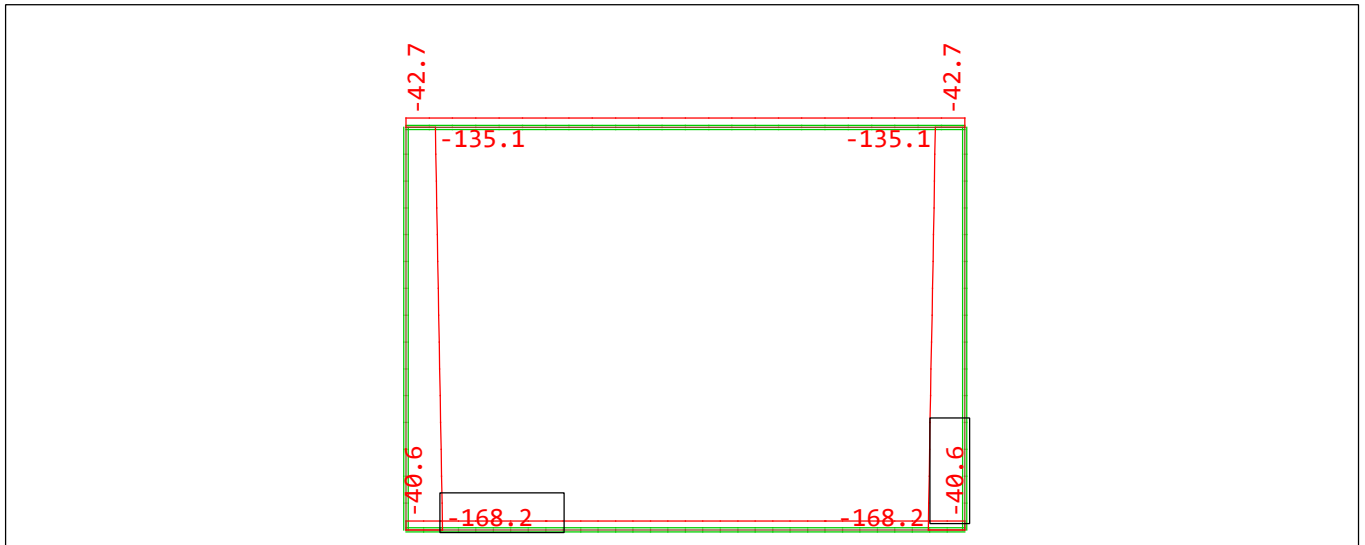
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ΑΠΟΤΕΛΕΣΜΑΤΑ ΜΗ-ΓΡΑΜΜΙΚΗΣ ΕΠΙΛΥΣΗΣ ΣΥΝΔΥΑΣΜΩΝ

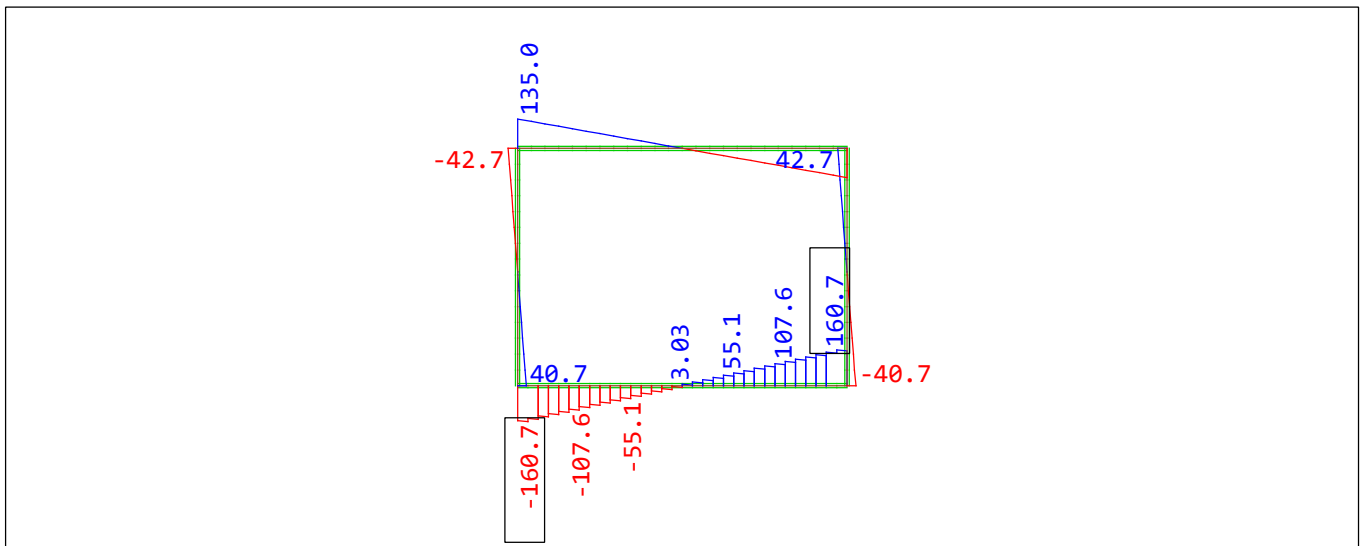
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



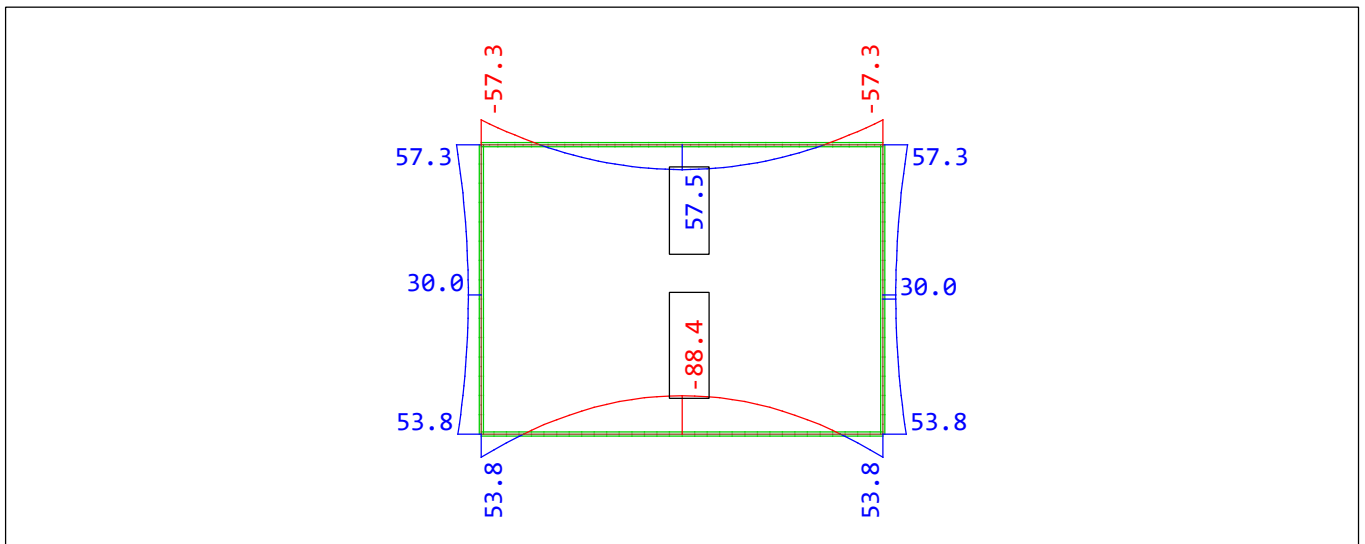
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:124 1.35G+R1+C+1.2W+1.5Q1+0.75T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kN (Min=-168.2) (Max=-40.2)



Beam Elements , Shear force Vz, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
348.4 kN (Min=-165.0) (Max=165.0)

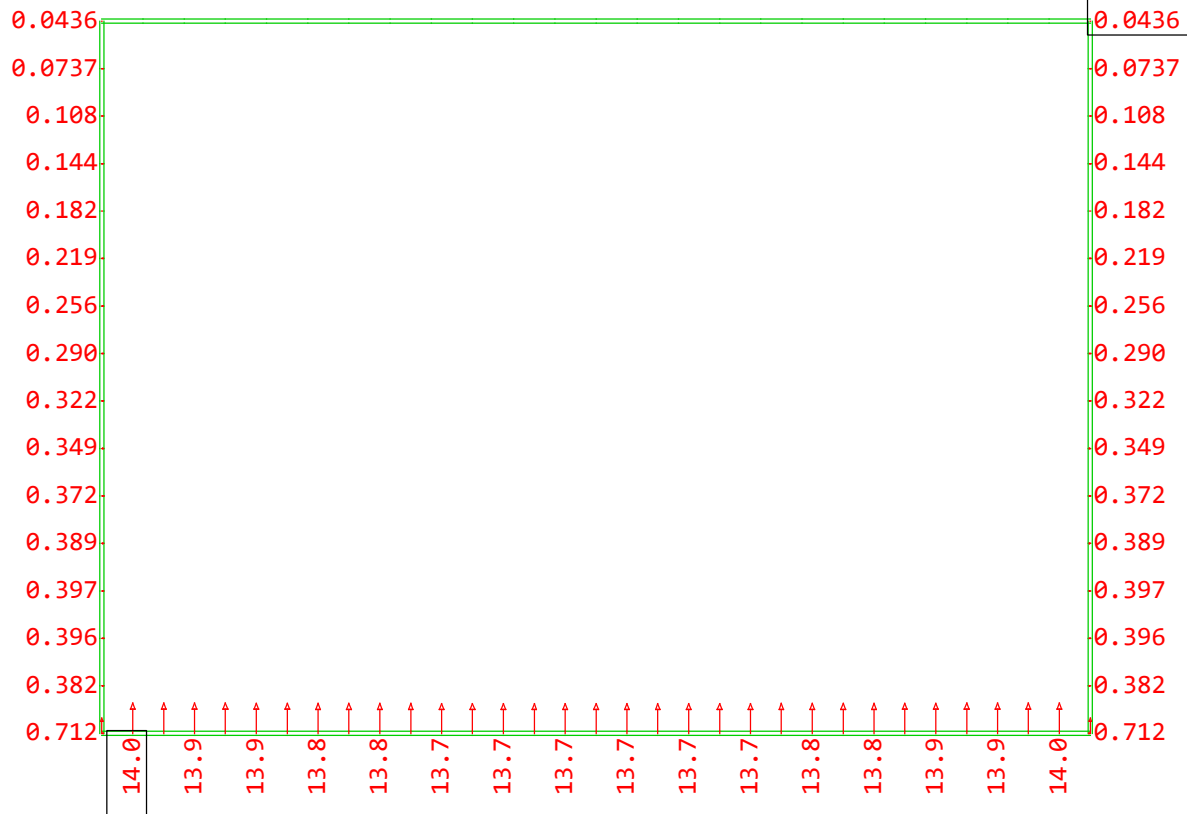


Beam Elements , Bending moment My, nonlinear Loadcase 124 1.35G+R1+C+1.2W+1.5Q1+0.75T , 1 cm 3D =
174.2 kNm (Min=-88.4) (Max=57.5)

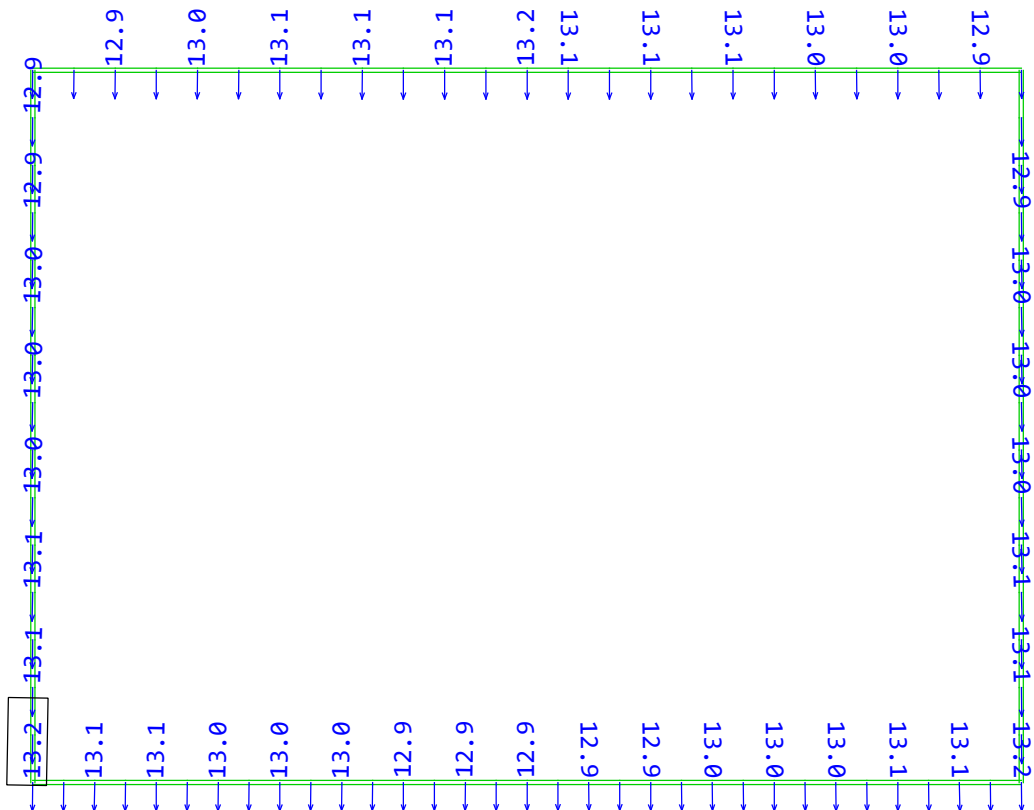
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΣ: 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

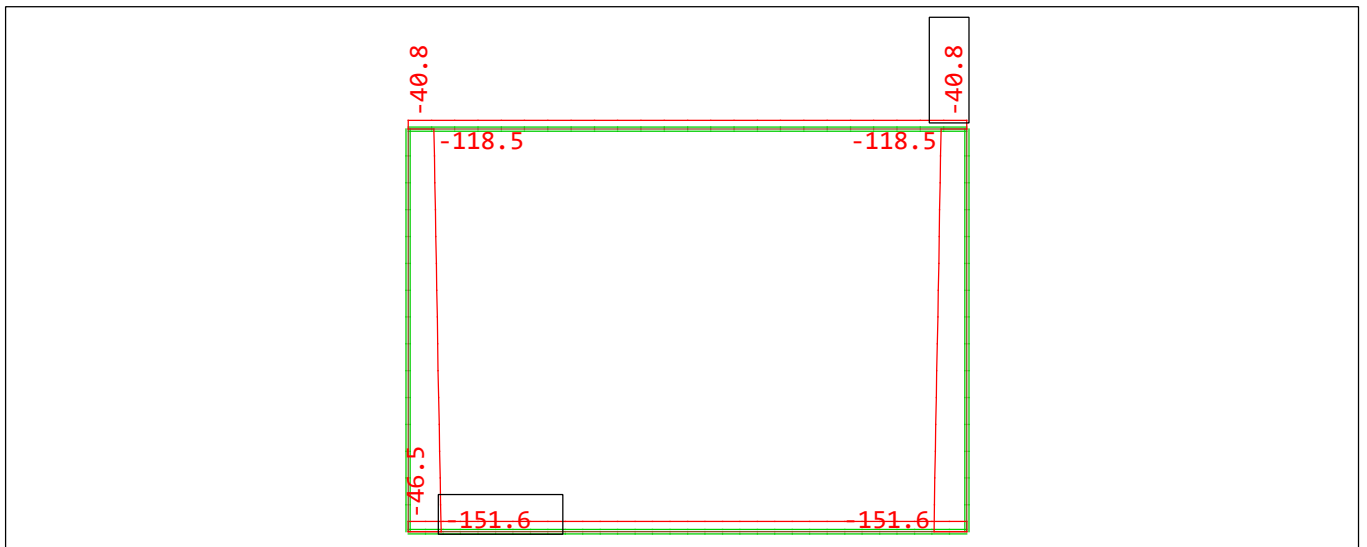


Spring force, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 34.8 kN
(Min=-14.0) (Max=-0.0436) (total: -451.4)

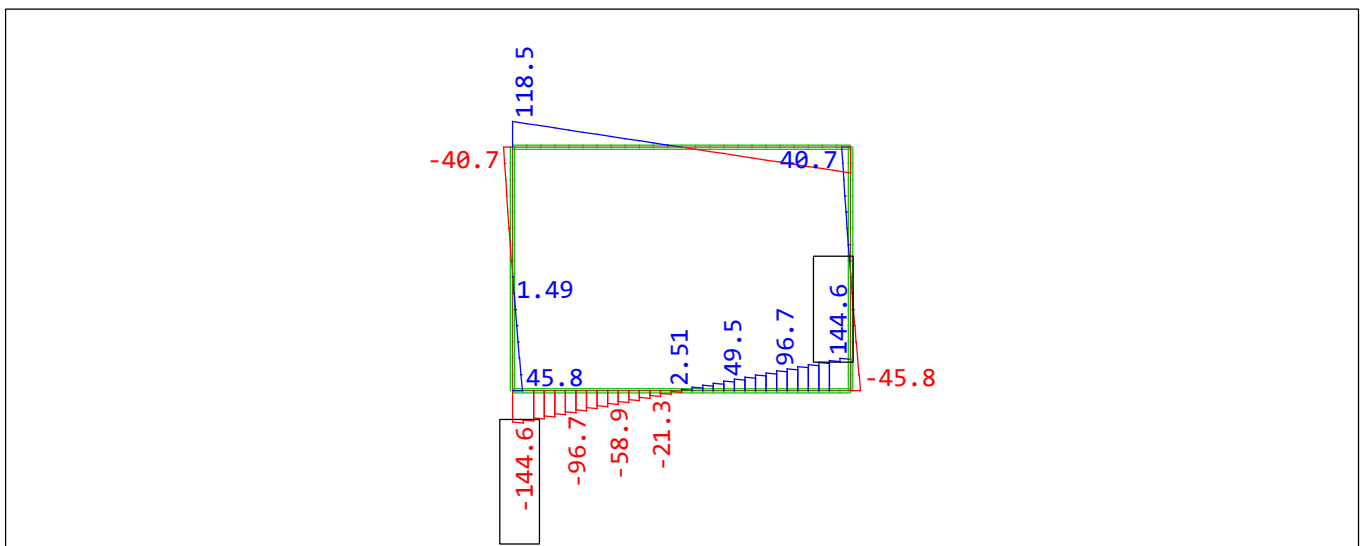


Nodal displacement vector, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D = 34.8 mm
(Max=13.2)

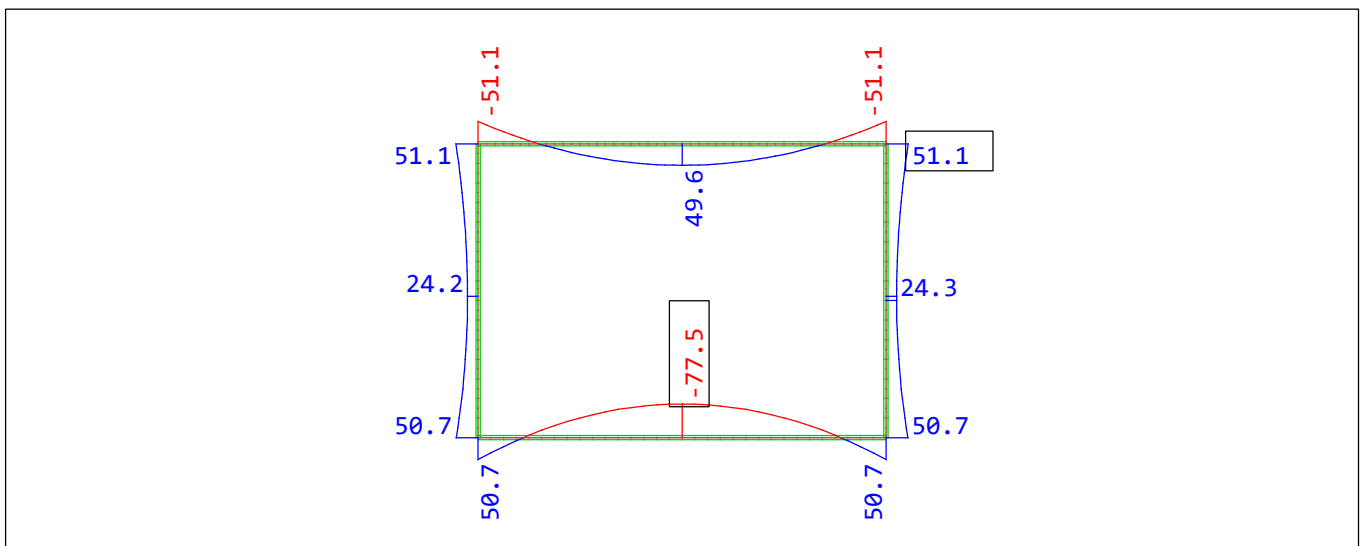
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
348.4 kN (Min=-151.6) (Max=-40.8)



Beam Elements , Shear force Vz, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
348.4 kN (Min=-148.9) (Max=148.9)

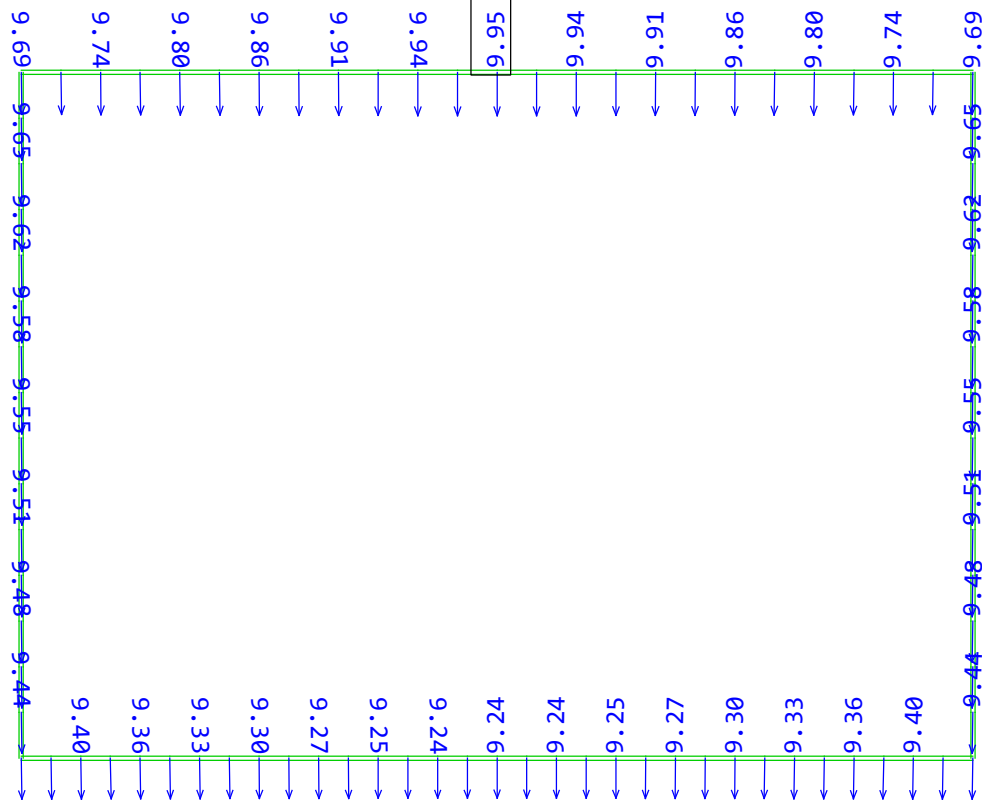


Beam Elements , Bending moment My, nonlinear Loadcase 140 1.35(G+R1)+C+1.2W+0.9Q1+1.5T , 1 cm 3D =
174.2 kNm (Min=-77.5) (Max=51.1)

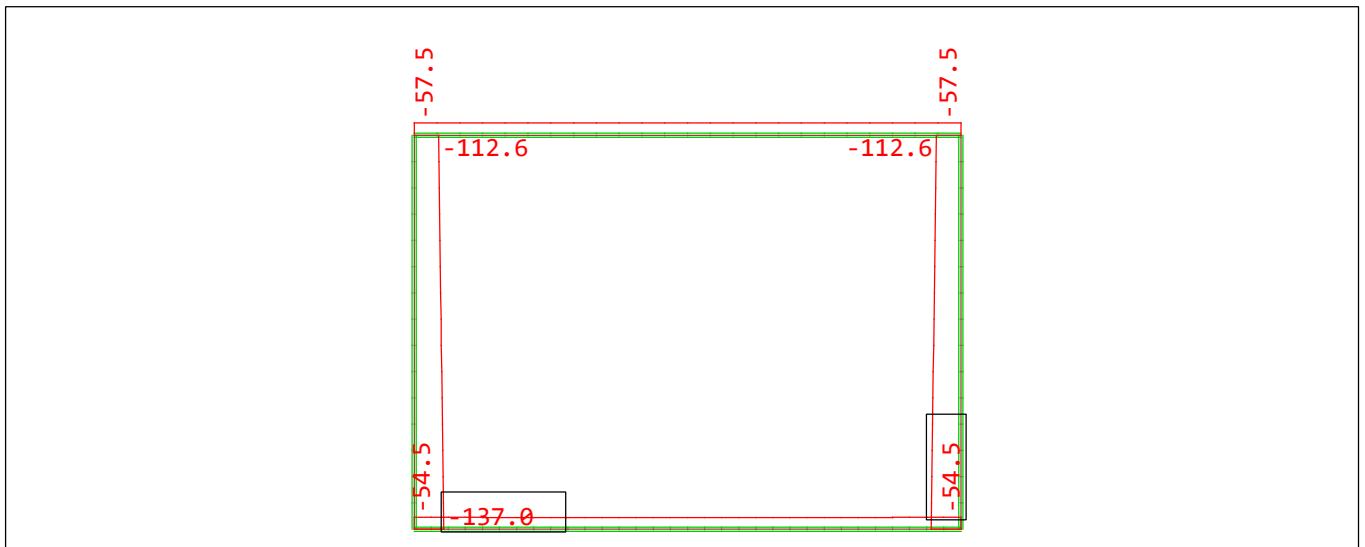
ΣΤΑΤΙΣΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

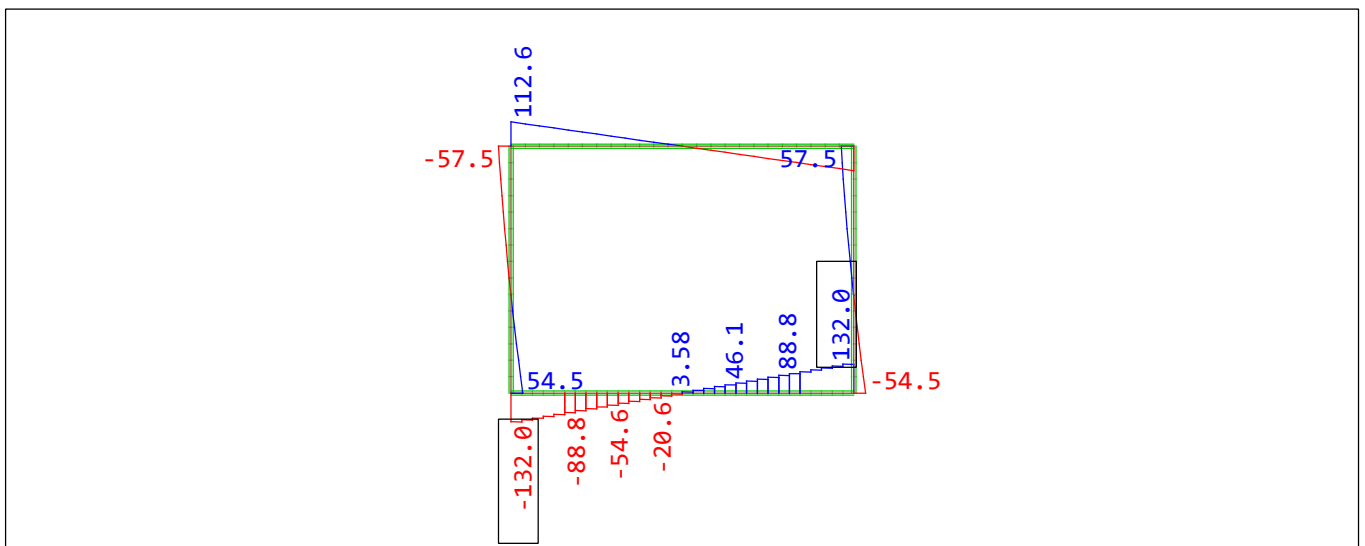
ΣΥΝΔΥΑΣΜΟΣ: 150 G+1.35R1+C+0.9Q1+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ


$$\begin{array}{c} \text{Z} - \text{X} \\ | \\ \text{Y} \end{array}$$

$$\begin{array}{c} \text{Z} - \text{X} \\ | \\ \text{Y} \end{array}$$

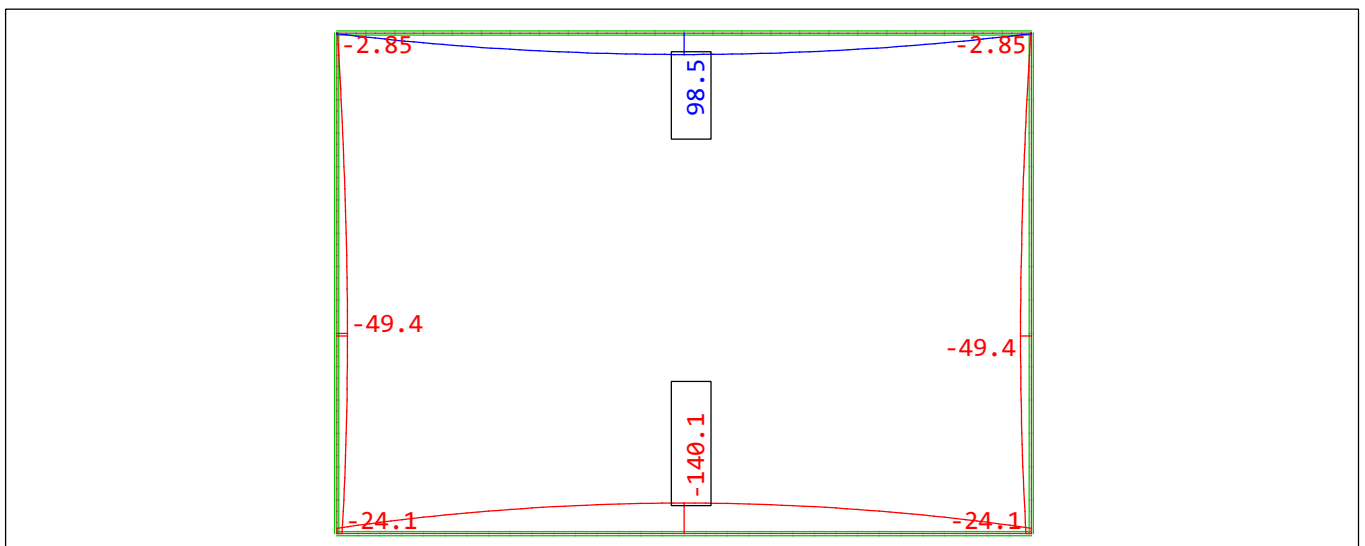
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:150 G+1.35R1+C+0.9Q1+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-137.0) (Max=-54.4)

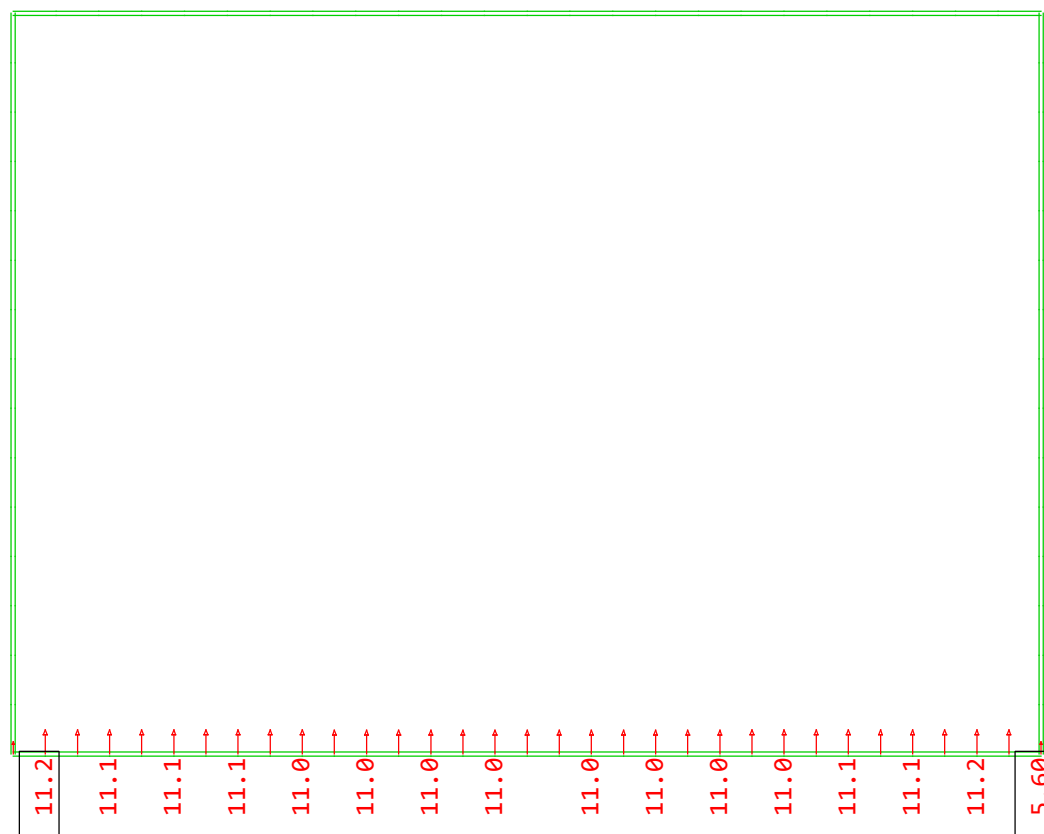


Beam Elements , Shear force Vz, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kN
(Min=-133.4) (Max=133.4)

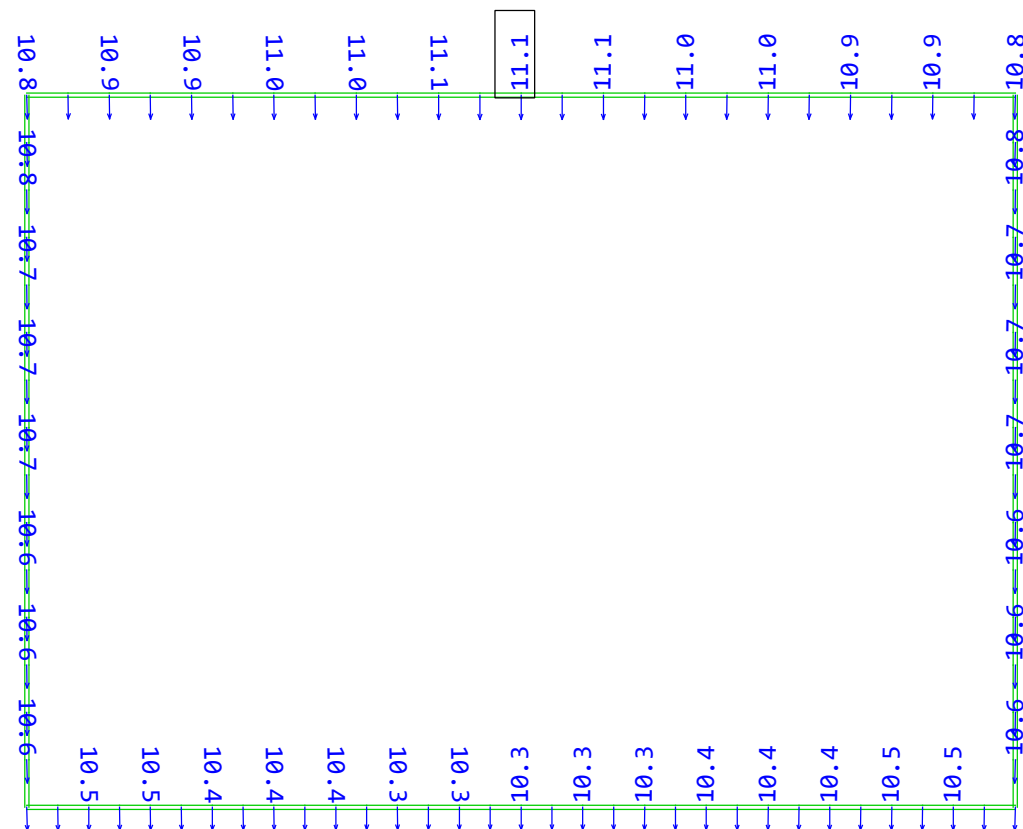


Beam Elements , Bending moment My, nonlinear Loadcase 150 G+1.35R1+C+0.9Q1+1.5T , 1 cm 3D = 348.4 kNm (Min=-140.1) (Max=98.5)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 201 1.35(G+R2)+C / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

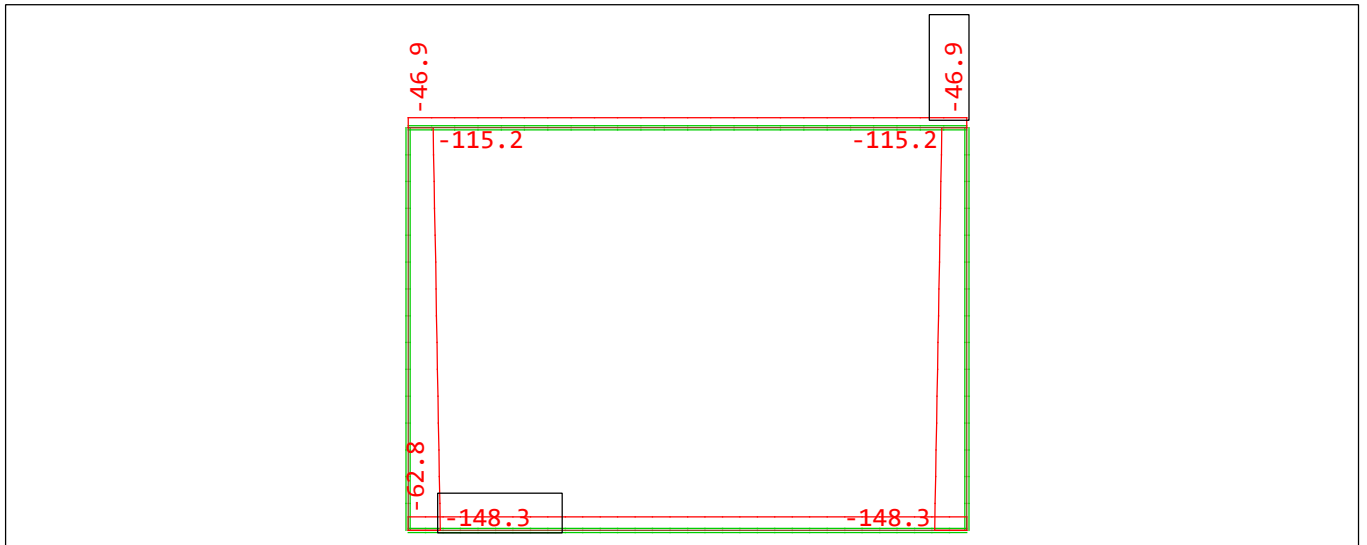


Spring force, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 34.8 kN (Min=-11.2) (Max=0)

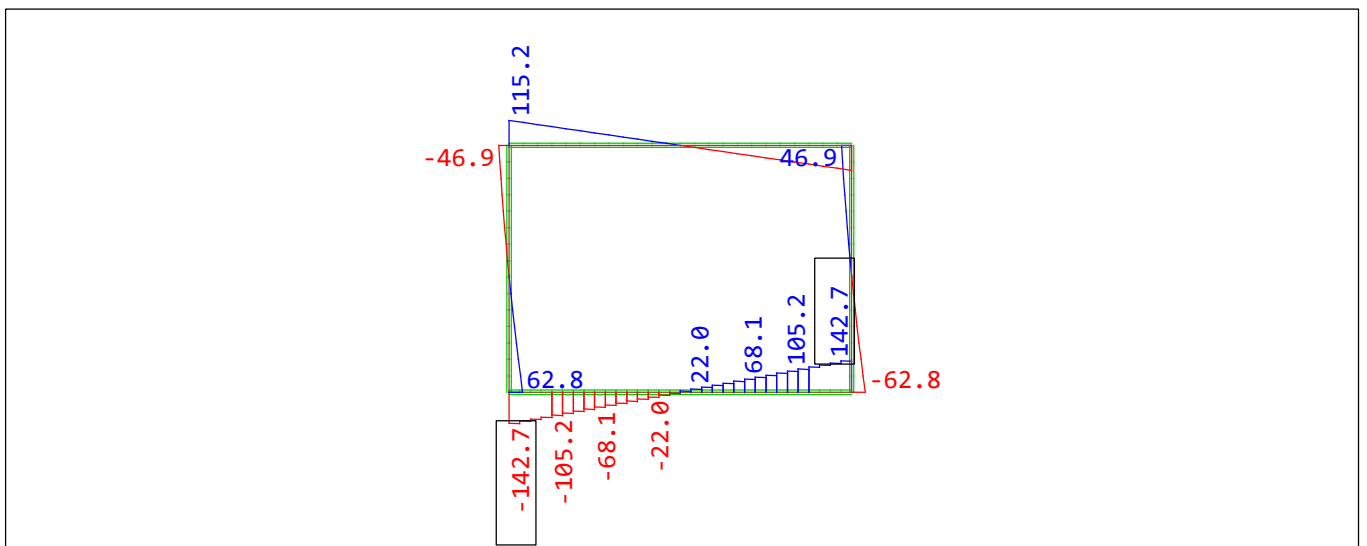


Nodal displacement vector, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 34.8 mm \Rightarrow (Max=11.1)

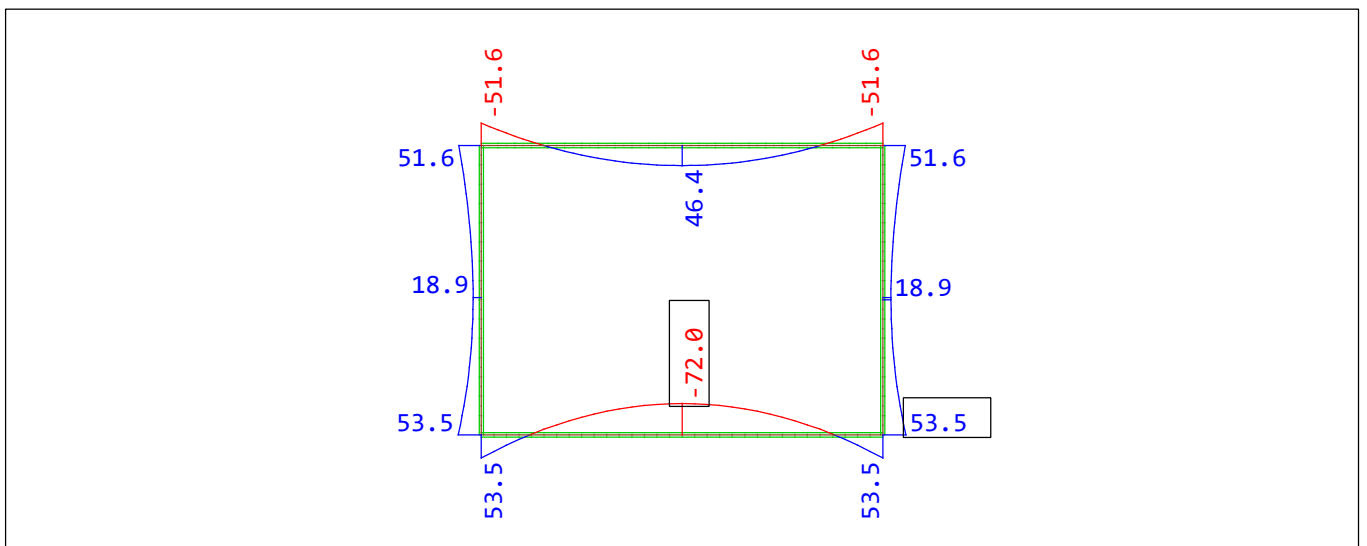
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 201 1.35(G+R2)+C / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N, Vz, My



Beam Elements , Normal force Nx, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
(Min=-148.3) (Max=-46.9)



Beam Elements , Shear force Vz, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kN
(Min=-144.5) (Max=144.5)

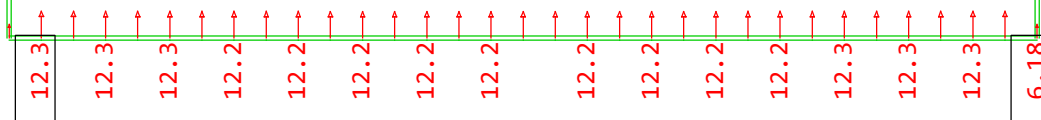


Beam Elements , Bending moment My, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 174.2 kNm
(Min=-72.0) (Max=53.5)

ΣΤΑΤΙΣΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

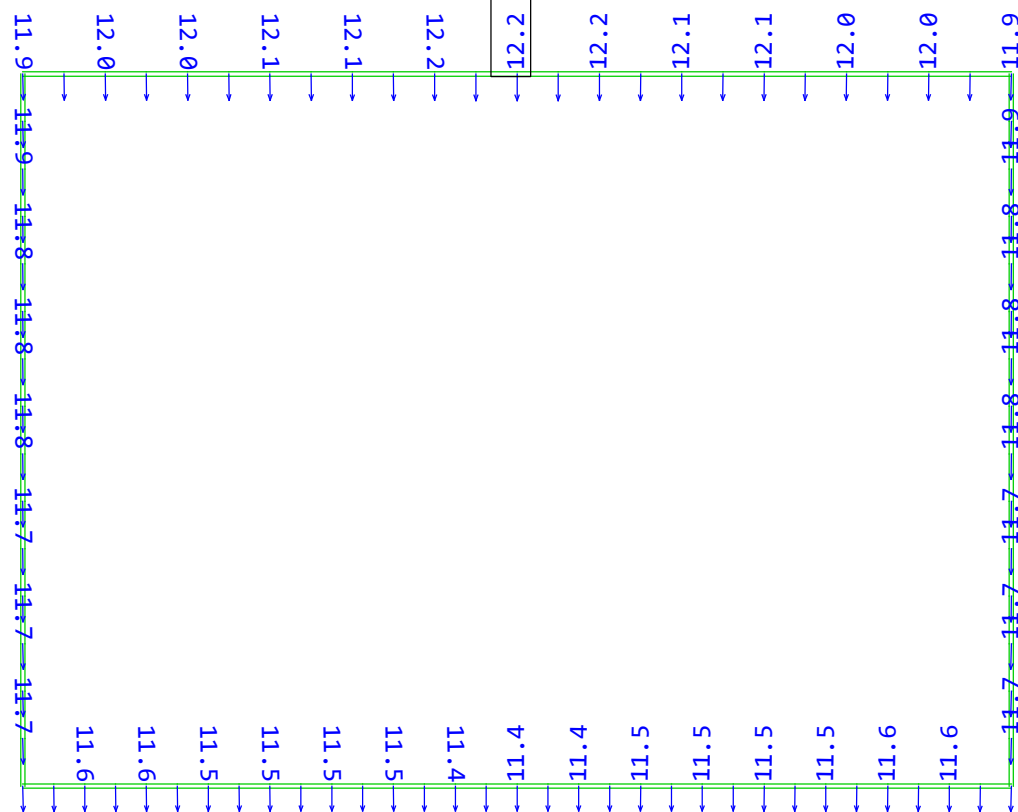
- ΑΓΩΓΟΣ Α2 -

ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R²+C+1.2W+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



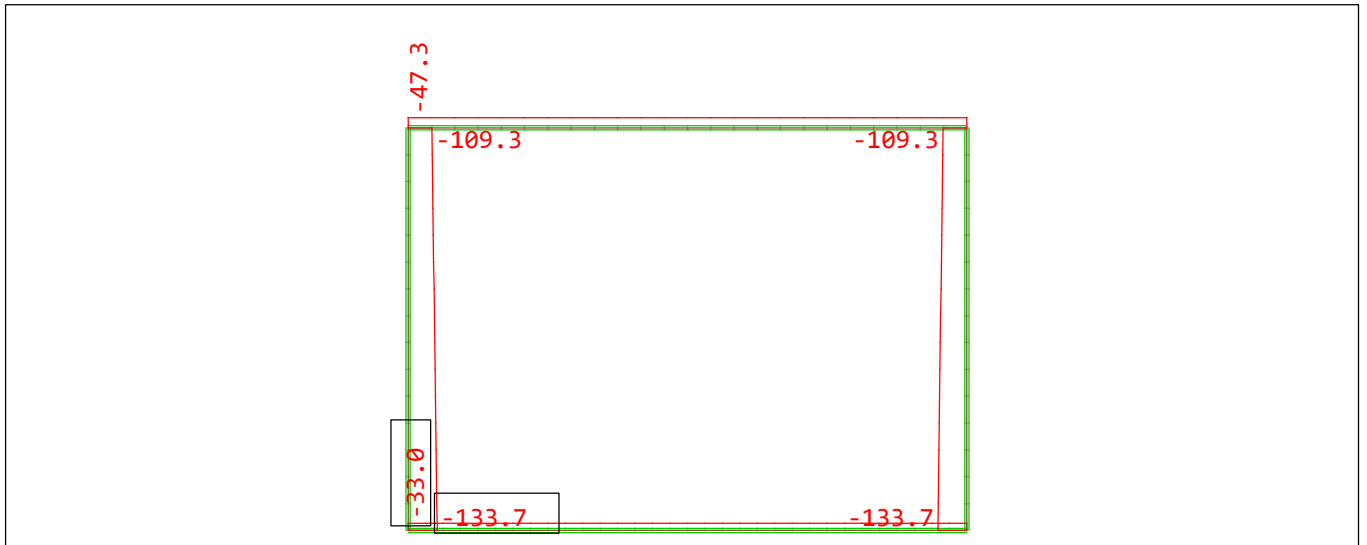
Spring force, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 34.8 kN
(Max=0) (total: -391.6)

 (Min=-12.3)

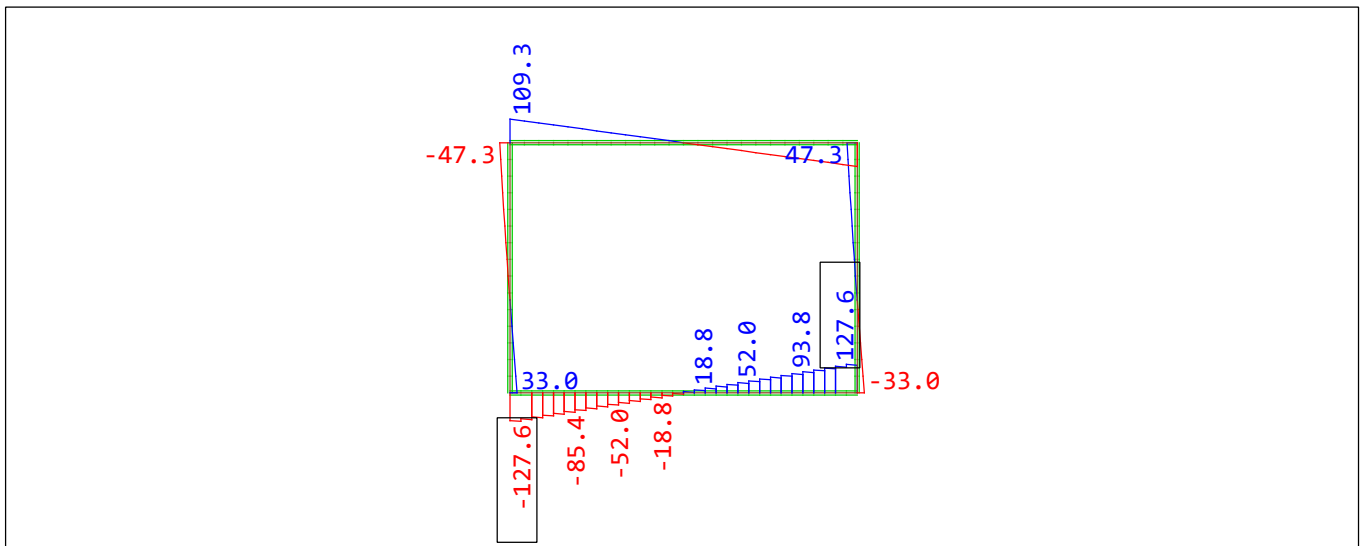


Nodal displacement vector, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 34.8 mm
(Max=12.2)

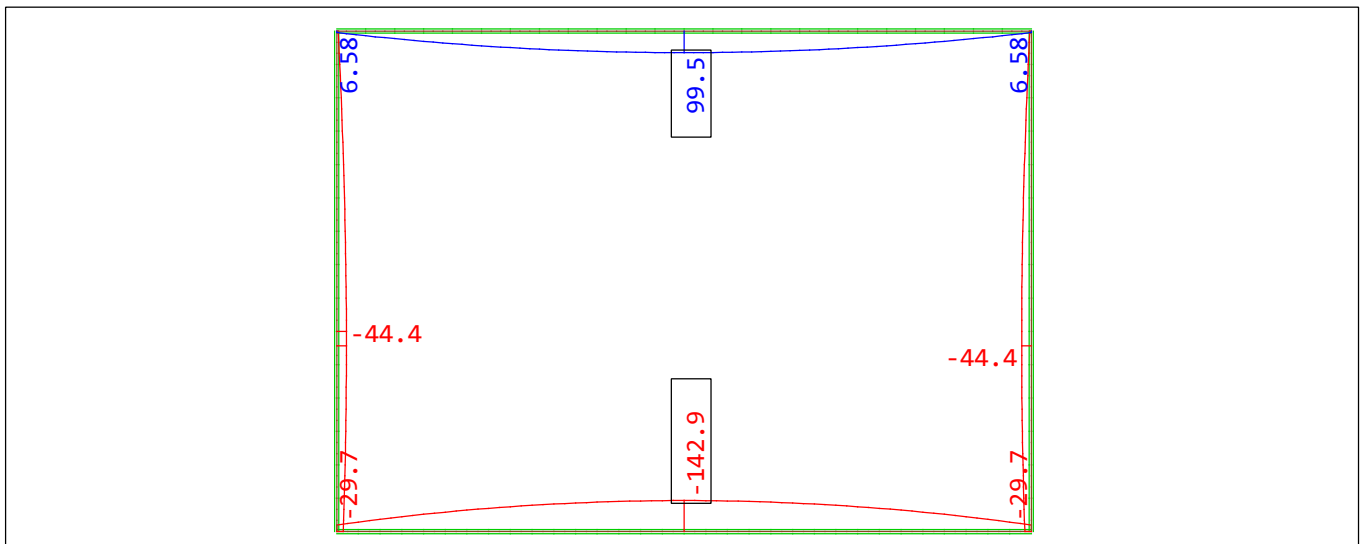
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-133.7) (Max=-32.8)

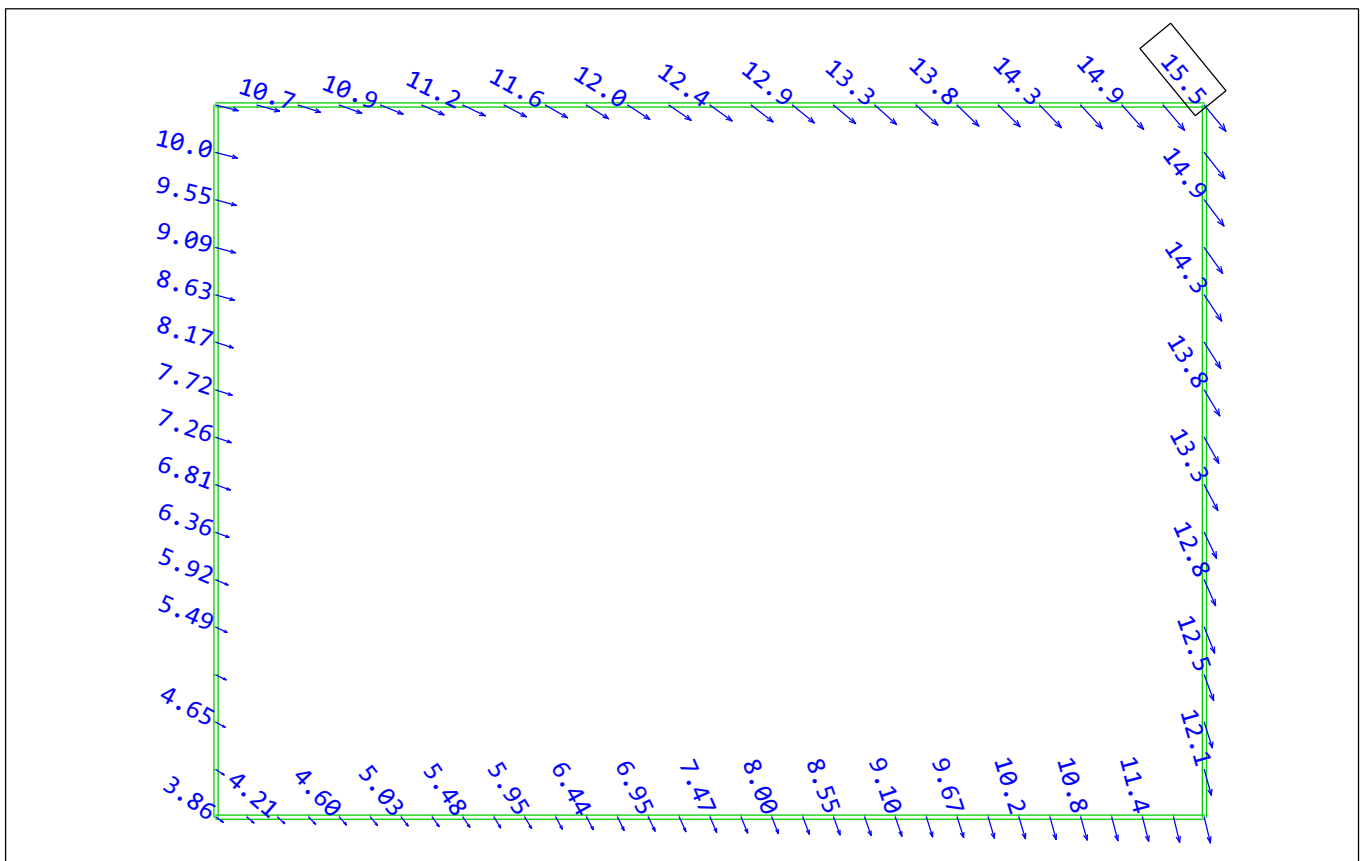
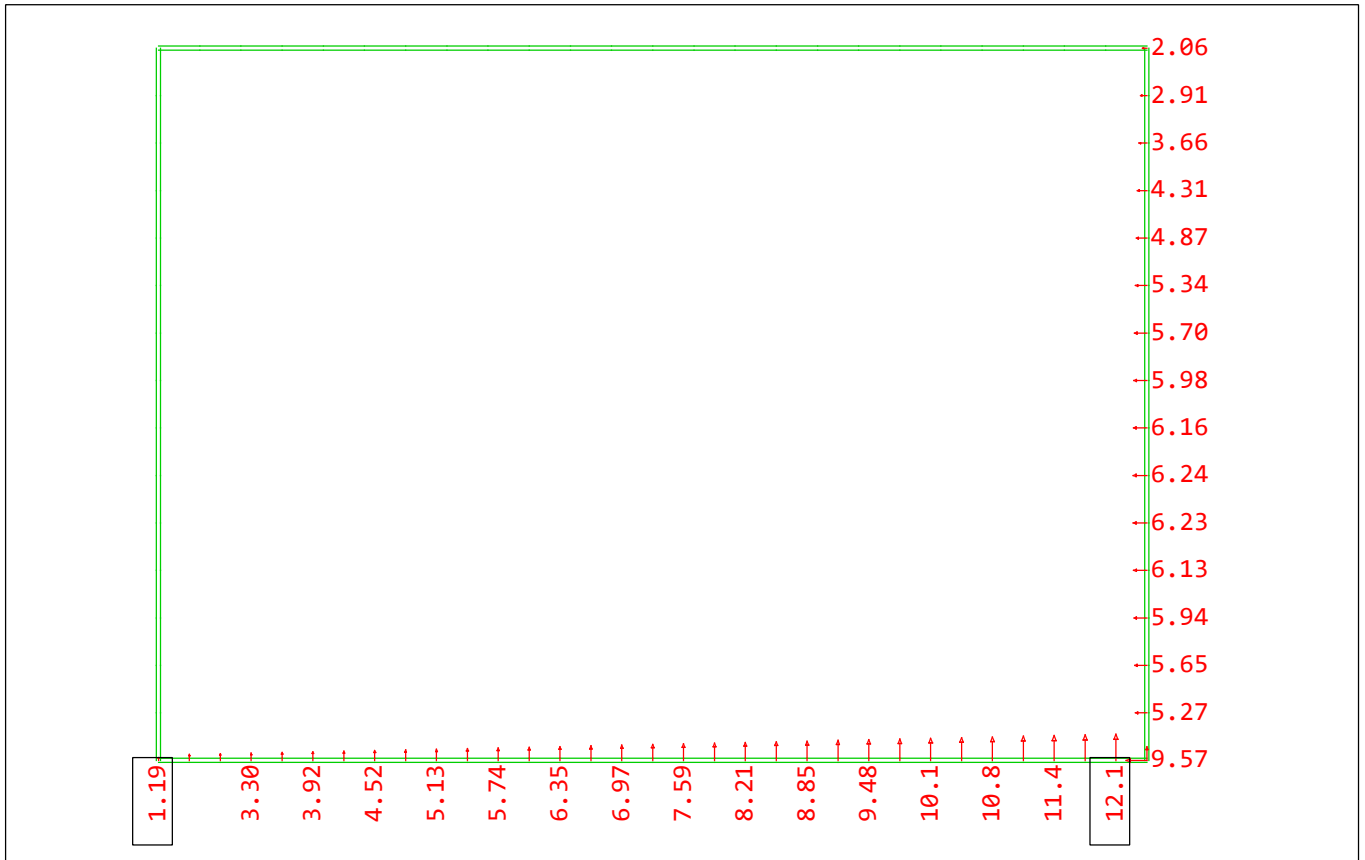


Beam Elements , Shear force Vz, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kN
(Min=-131.4) (Max=131.4)

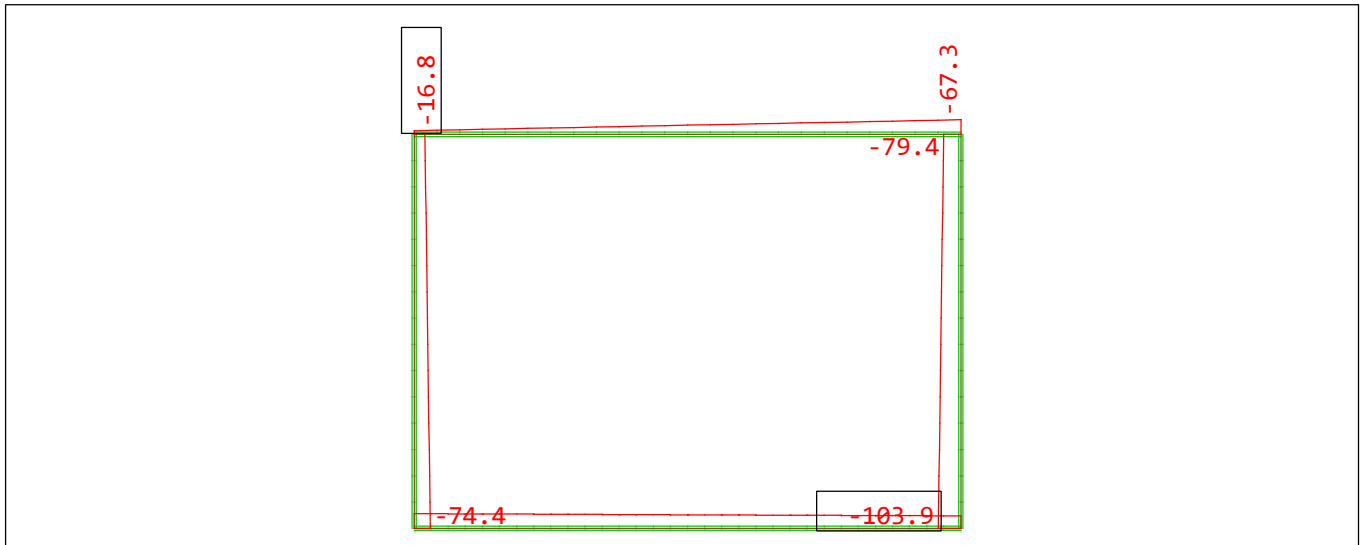


Beam Elements , Bending moment My, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 348.4 kNm (Min=-142.9) (Max=99.5)

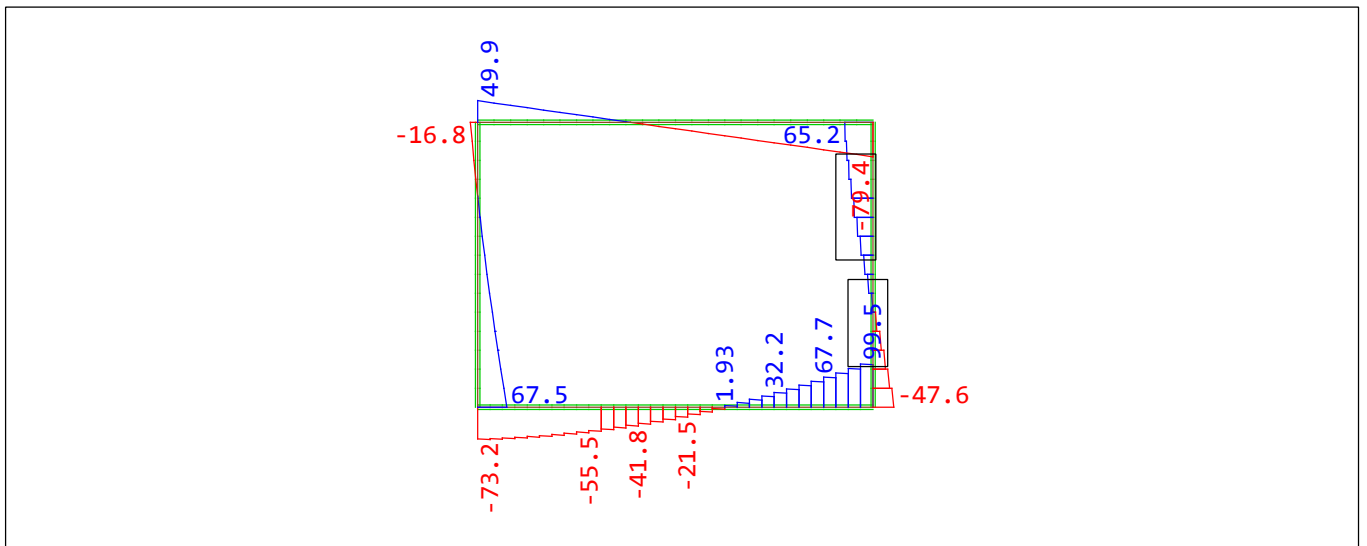
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



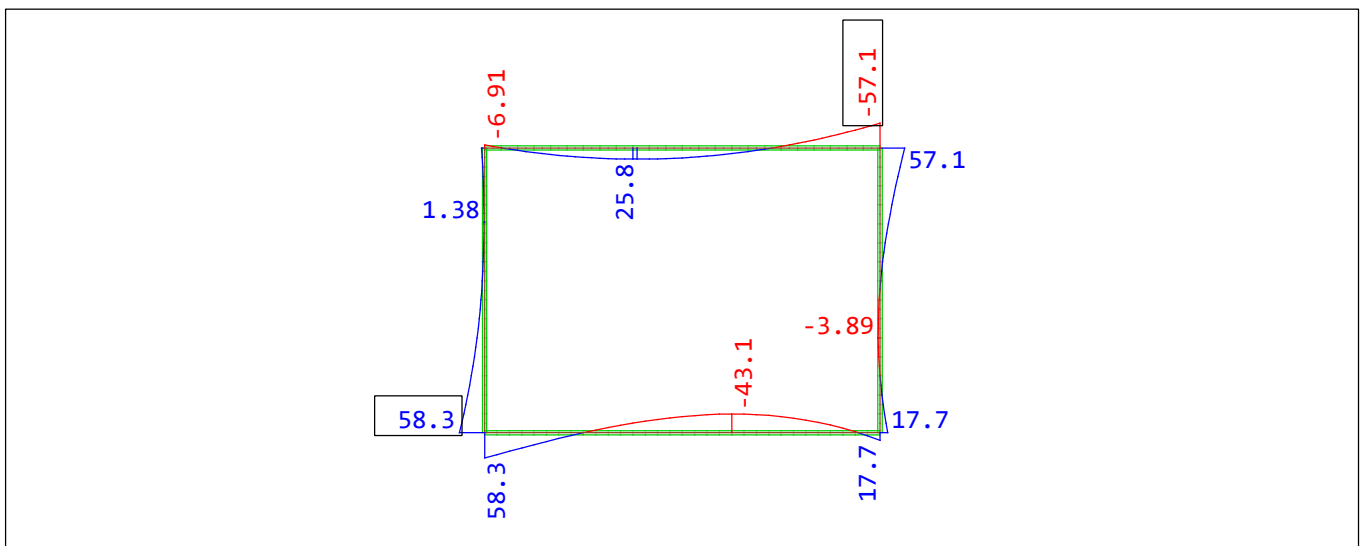
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 311 G+C+R1+0.2(W+Q1)+EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 348.4 kN
(Min=-103.9) (Max=-16.8)

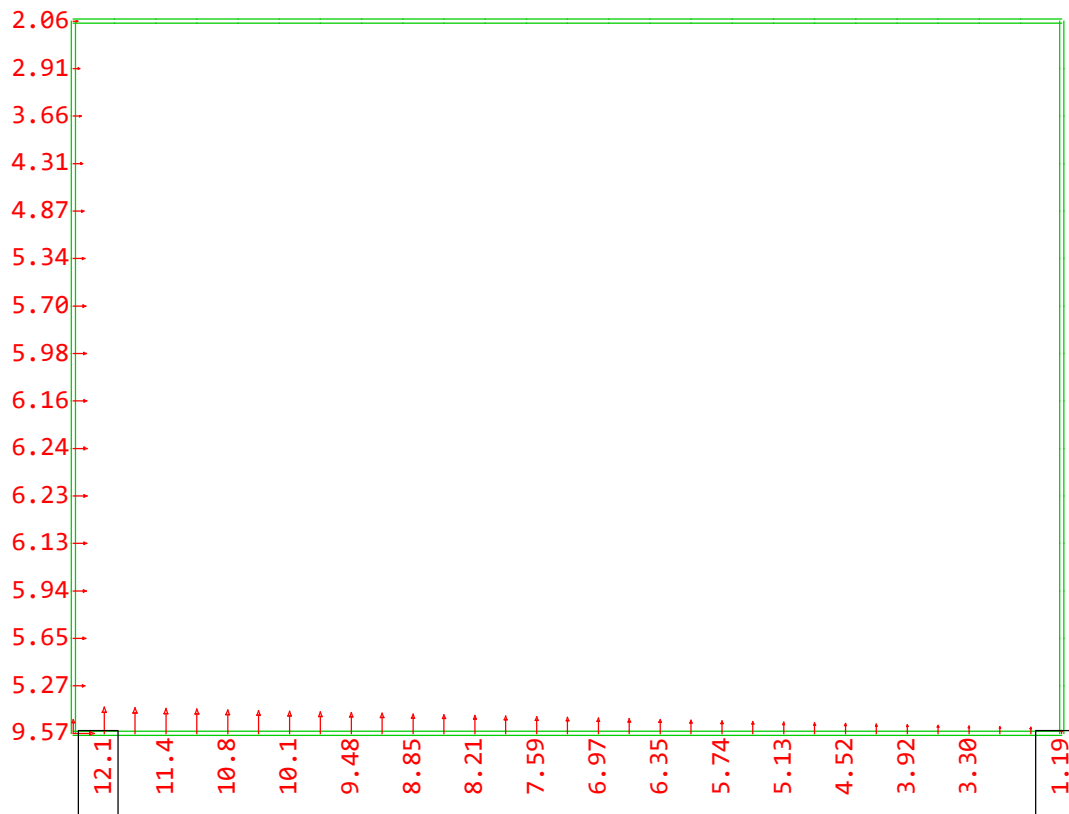


Beam Elements , Shear force Vz, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 174.2 kN
(Min=-79.4) (Max=99.5)

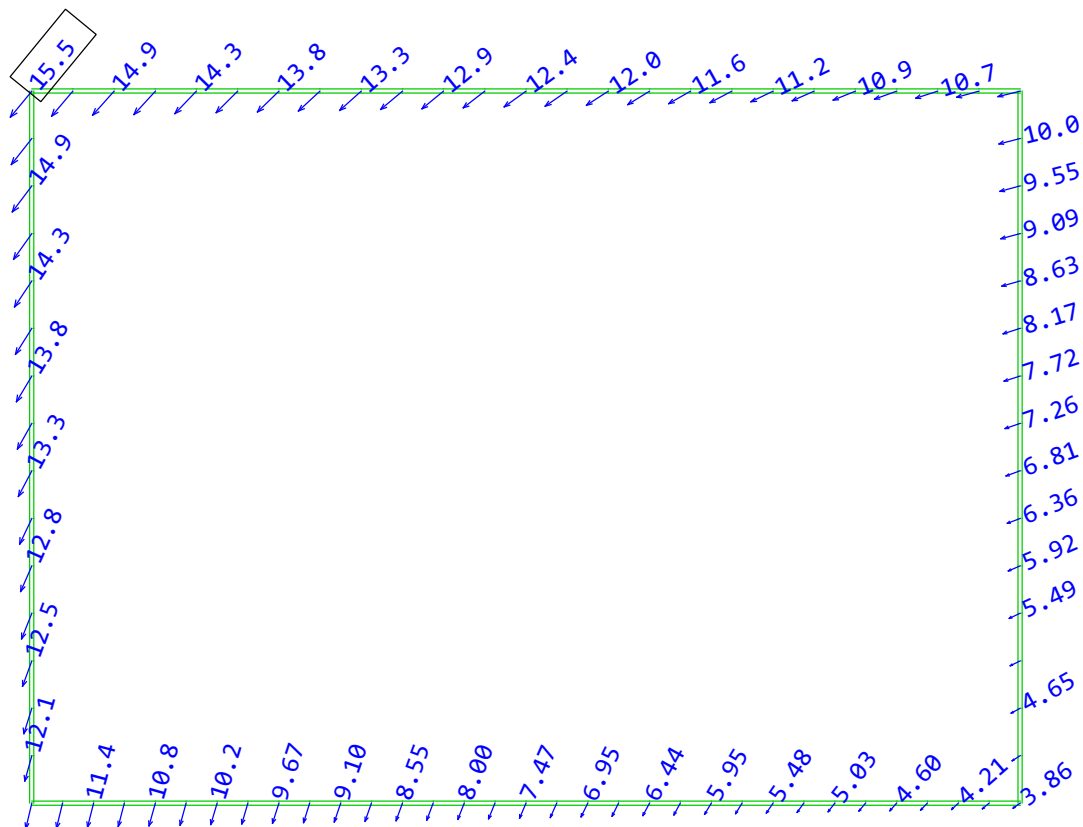


Beam Elements , Bending moment My, nonlinear Loadcase 311 G+C+R1+0.2(W+Q1)+EA1 , 1 cm 3D = 174.2 kNm (Min=-57.1) (Max=58.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

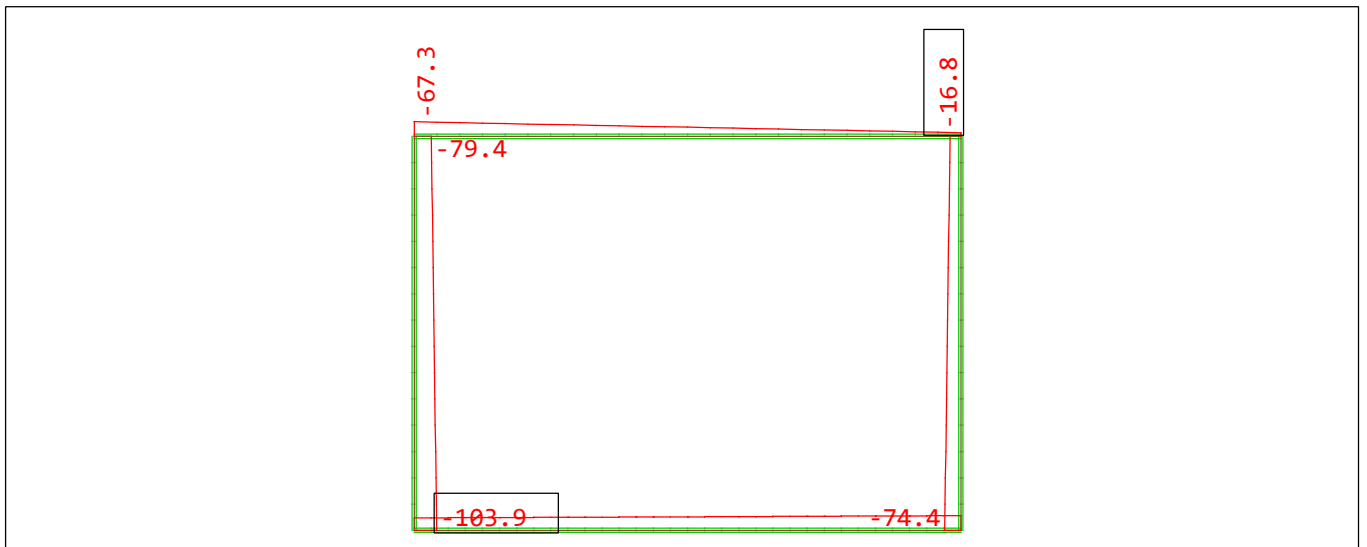


Spring force, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1, 1 cm 3D = 34.8 kN
(Max=0) (total: -320.4)

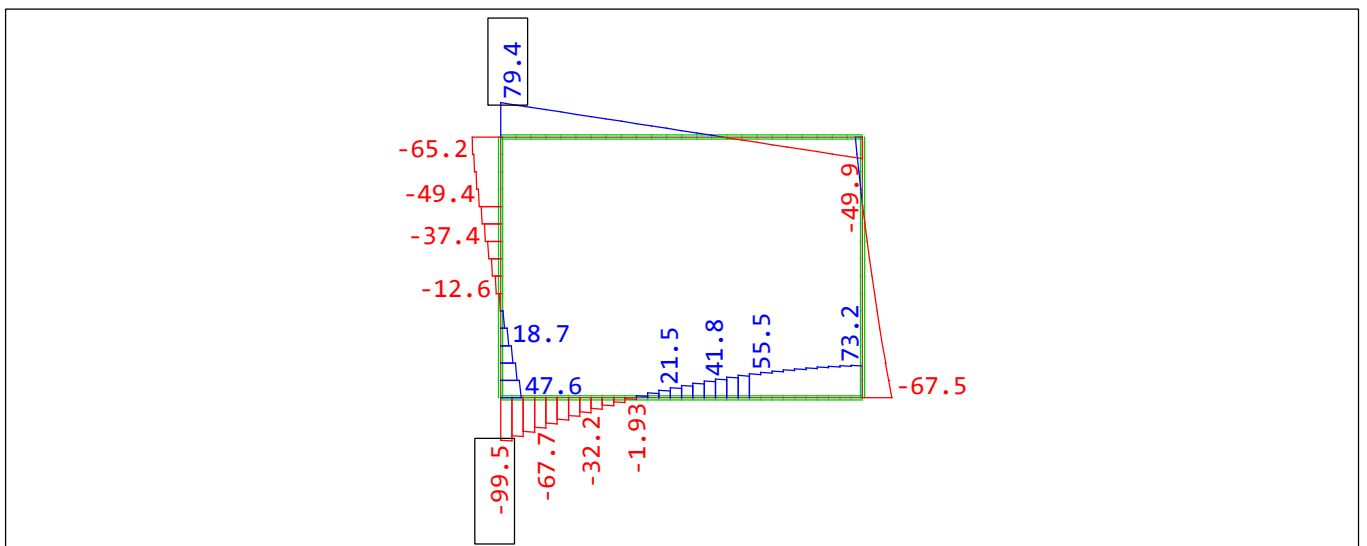


Nodal displacement vector, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1, 1 cm 3D = 34.8 mm
(Max=15.5)

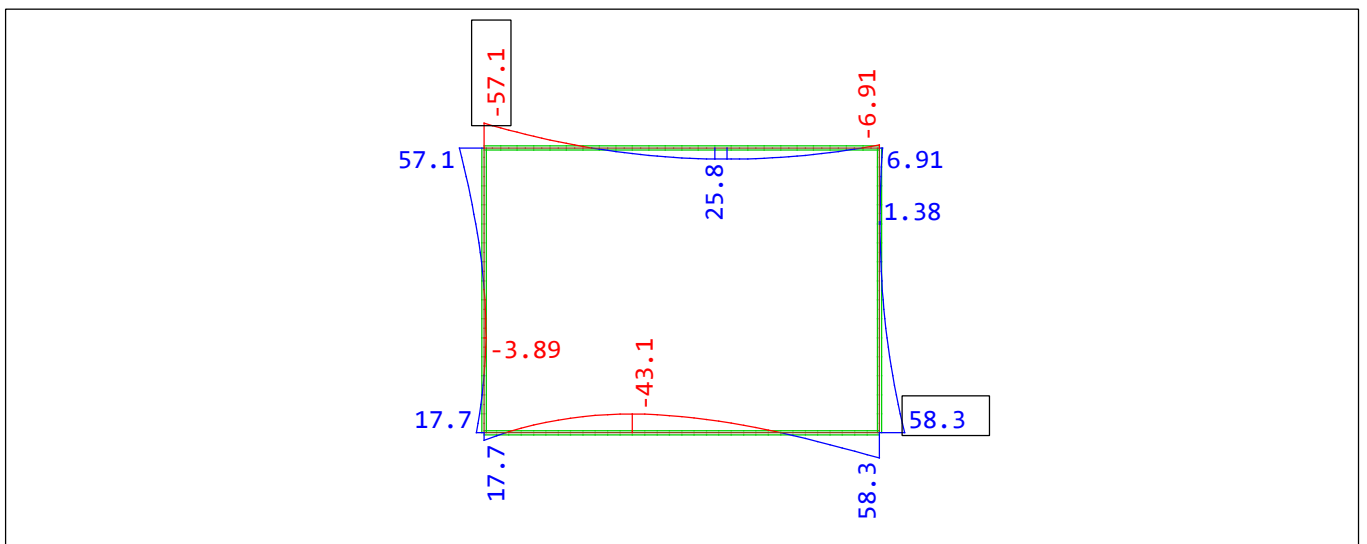
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 312 G+C+R1+0.2(W+Q1)-EA1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 348.4 kN
(Min=-103.9) (Max=-16.8)

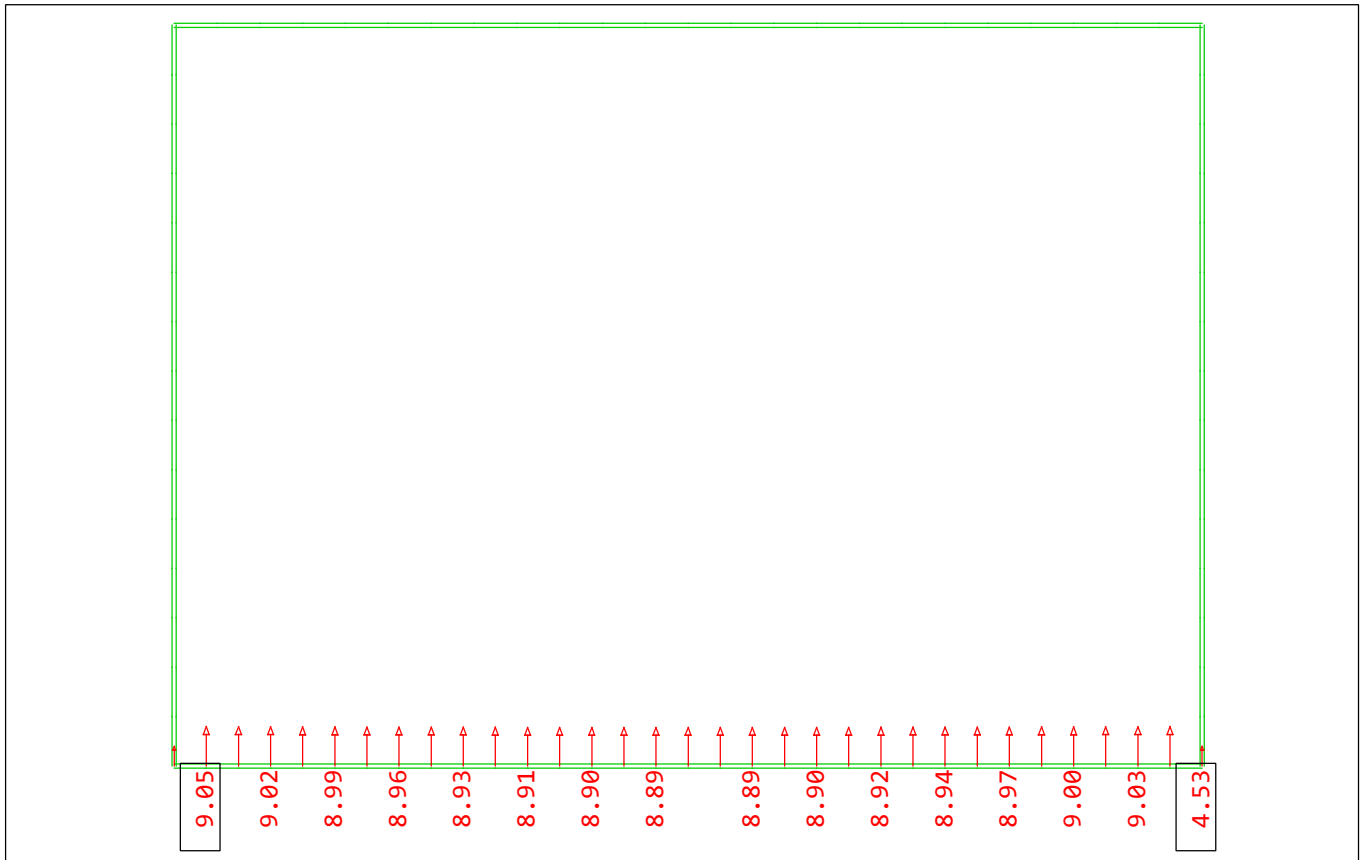


Beam Elements , Shear force Vz, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 174.2 kN
(Min=-99.5) (Max=79.4)

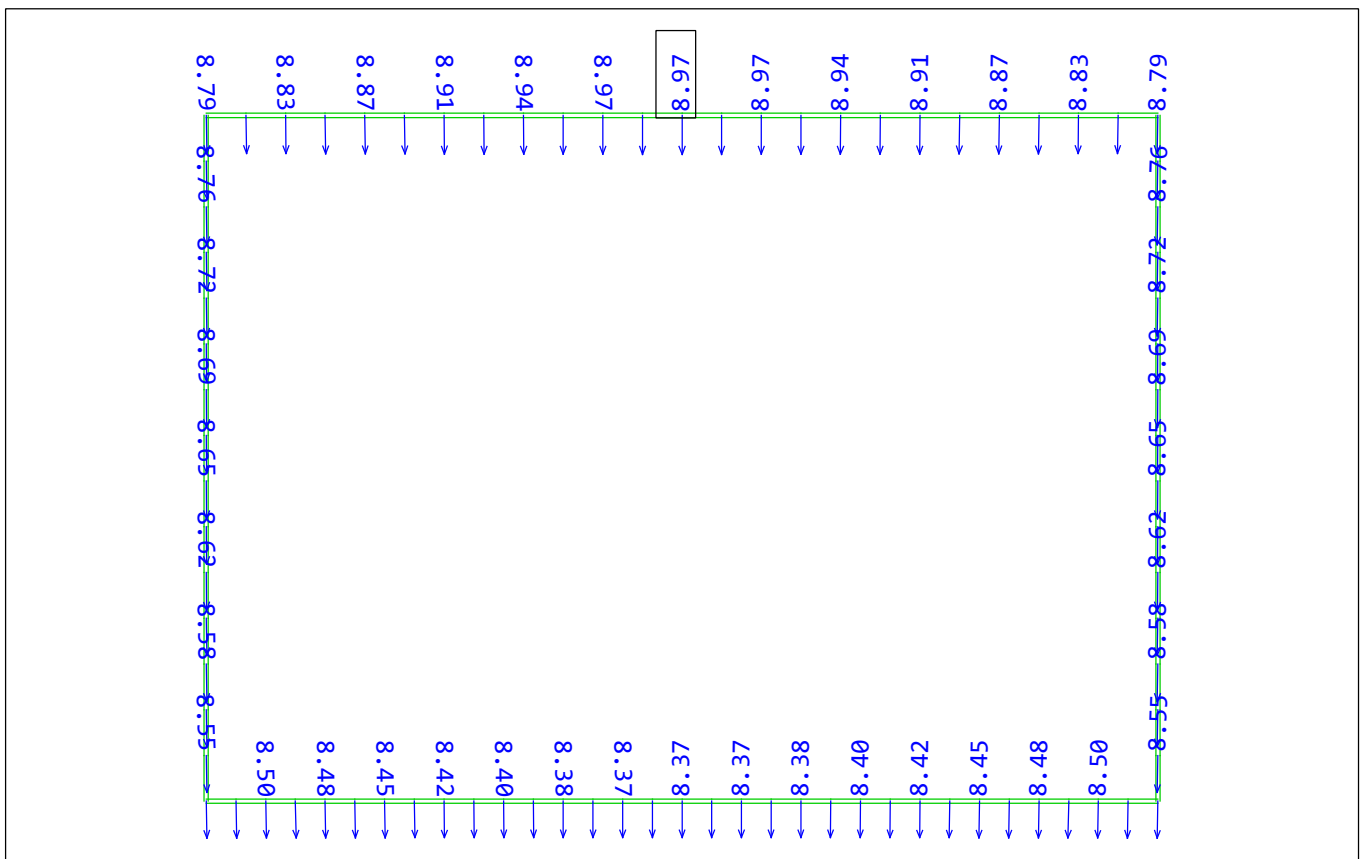


Beam Elements , Bending moment My, nonlinear Loadcase 312 G+C+R1+0.2(W+Q1)-EA1 , 1 cm 3D = 174.2 kNm (Min=-57.1) (Max=58.3)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

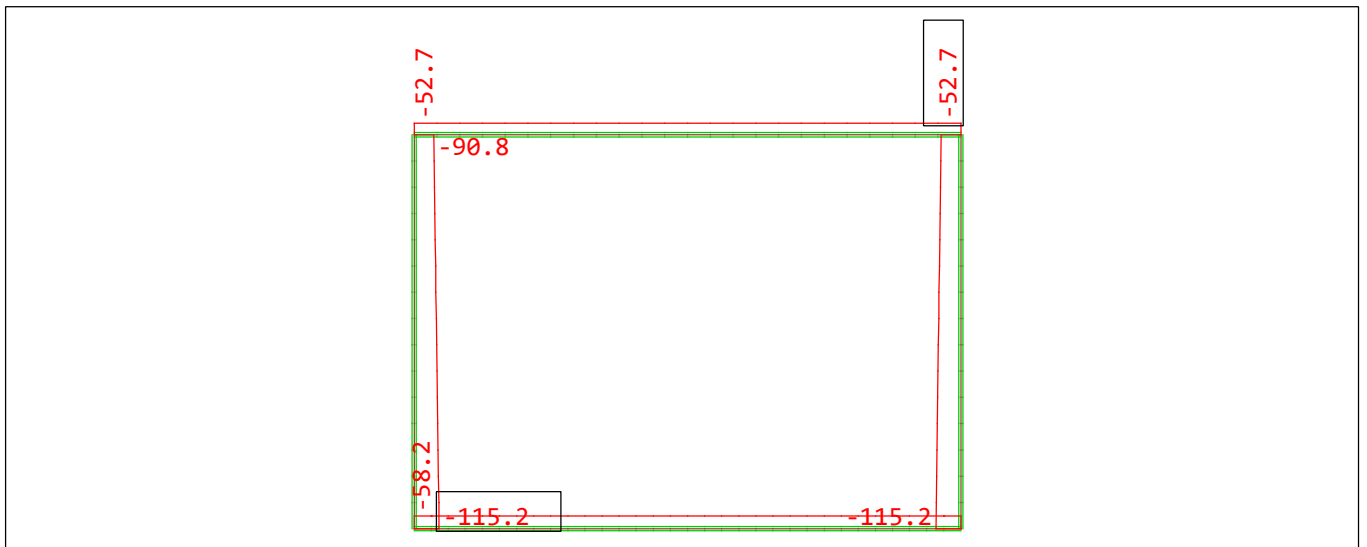


Spring force, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 17.4 kN
(Max=0) (total: -286.6) (Min=-9.05)

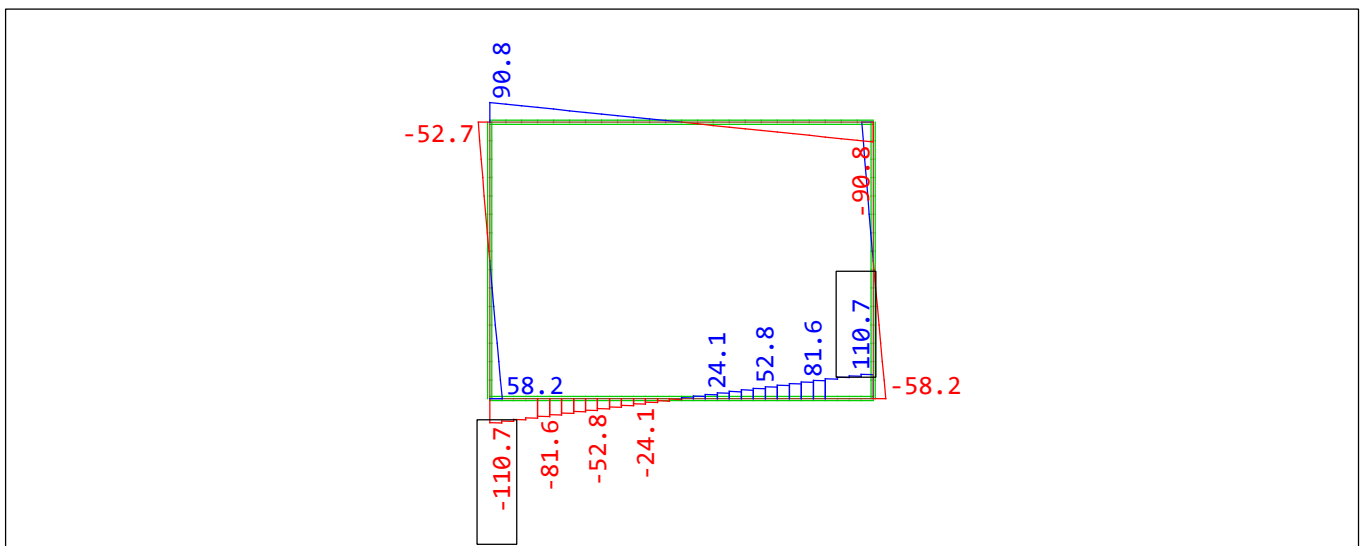


Nodal displacement vector, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 17.4 mm
(Max=8.97)

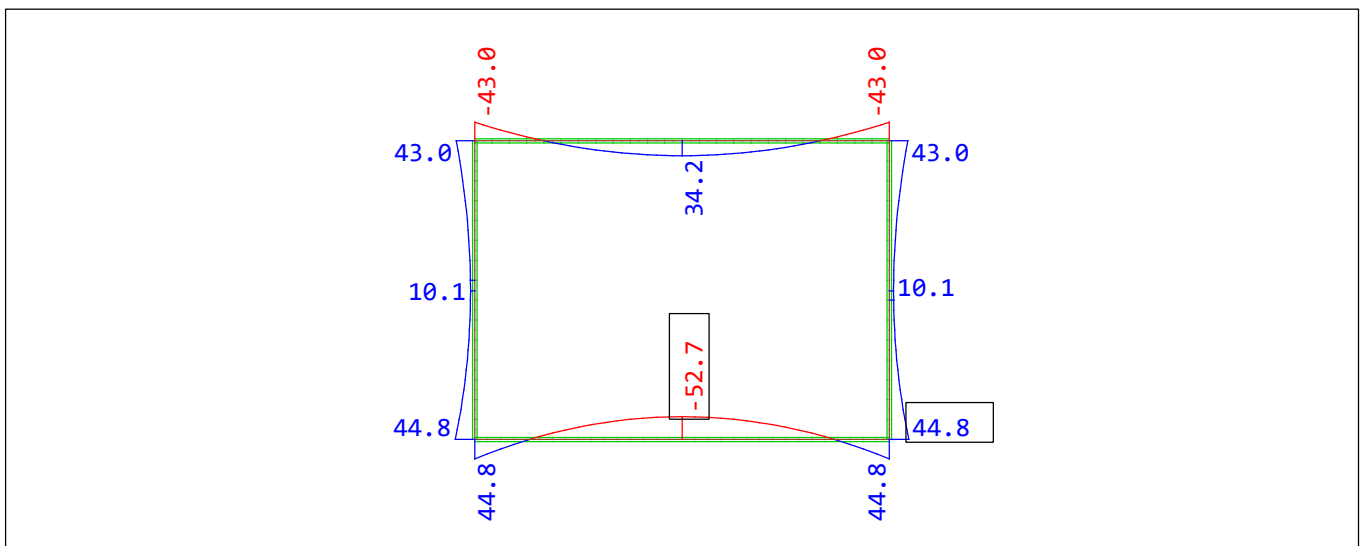
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 323 G+C+R2+0.2(W+Q2)+ES2 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
(Min=-115.2) (Max=-52.7)



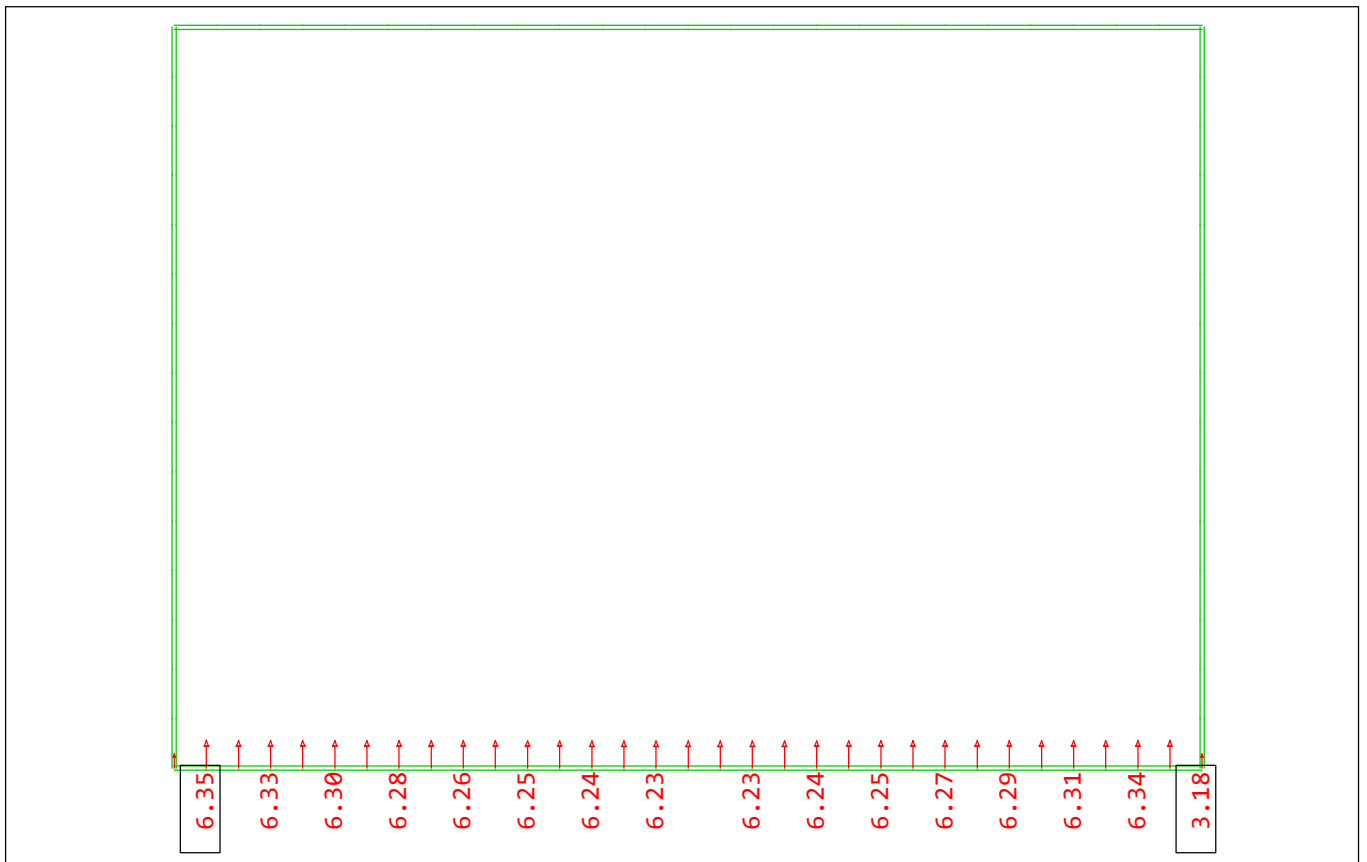
Beam Elements , Shear force Vz, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 348.4 kN
(Min=-112.5) (Max=112.5)



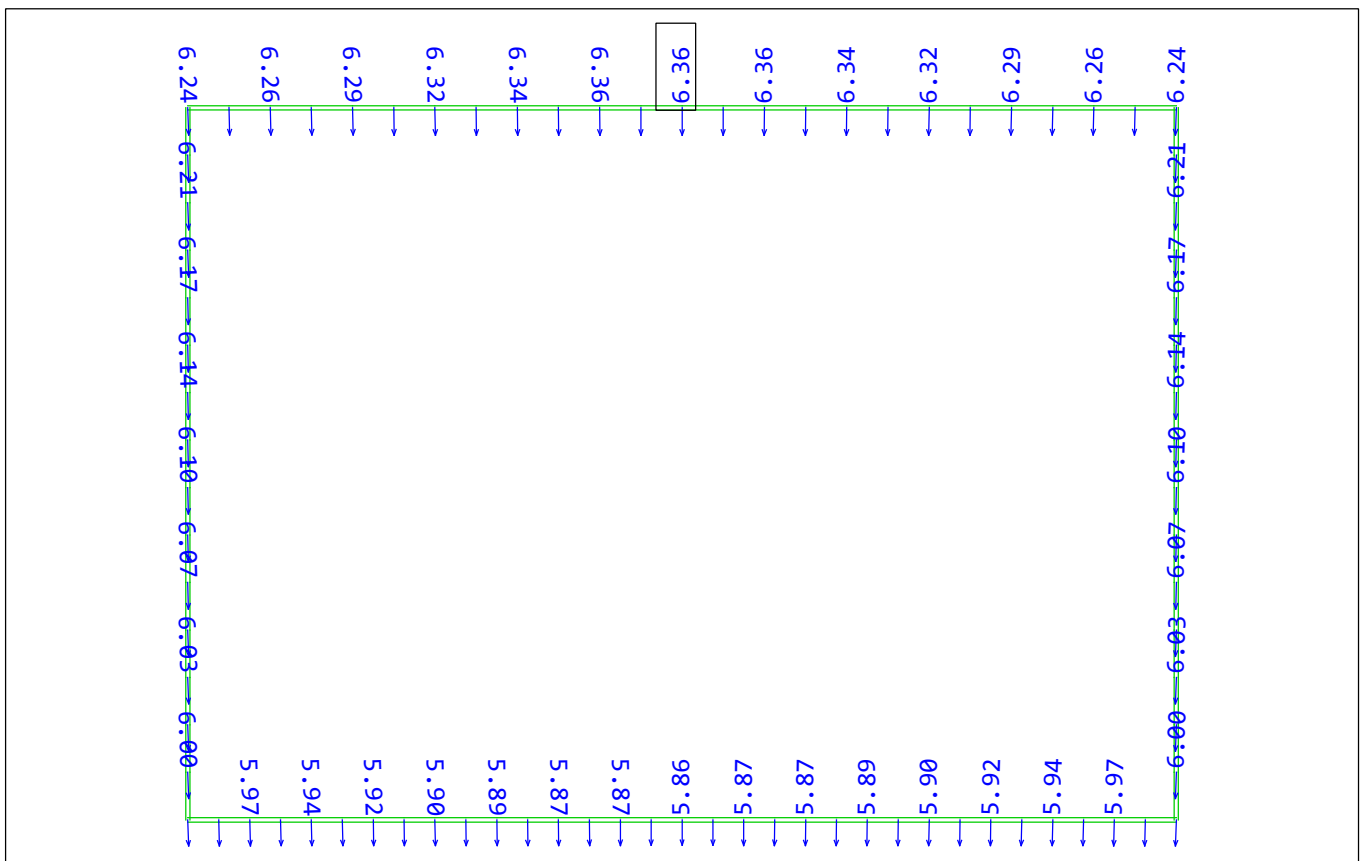
Beam Elements , Bending moment My, nonlinear Loadcase 323 G+C+R2+0.2(W+Q2)+ES2 , 1 cm 3D = 174.2
kNm (Min=-52.7) (Max=44.8)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

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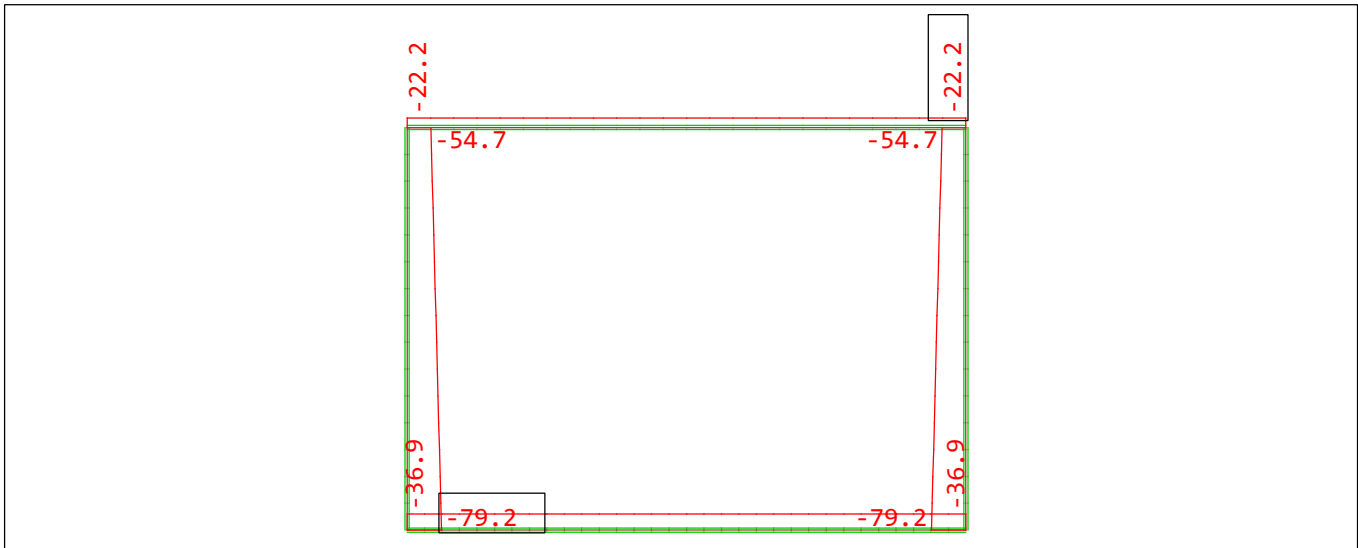


Spring force, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 17.4 kN
(Min=-6.35) (Max=0) (total: -200.9)

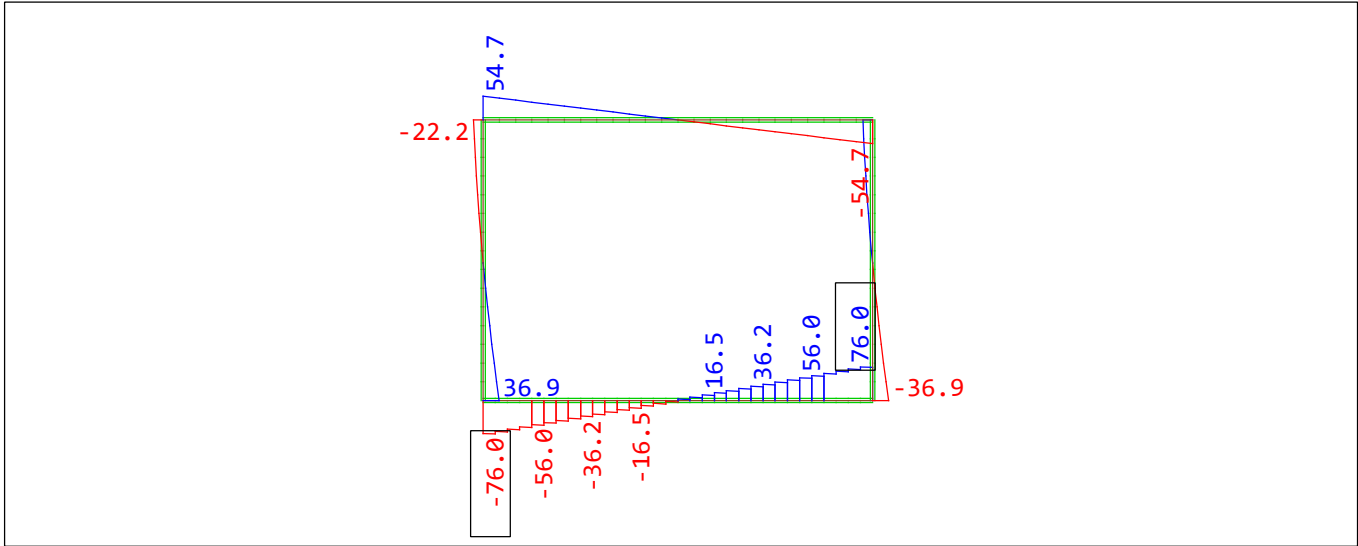


Nodal displacement vector, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 17.4 mm
(Max=6.36)

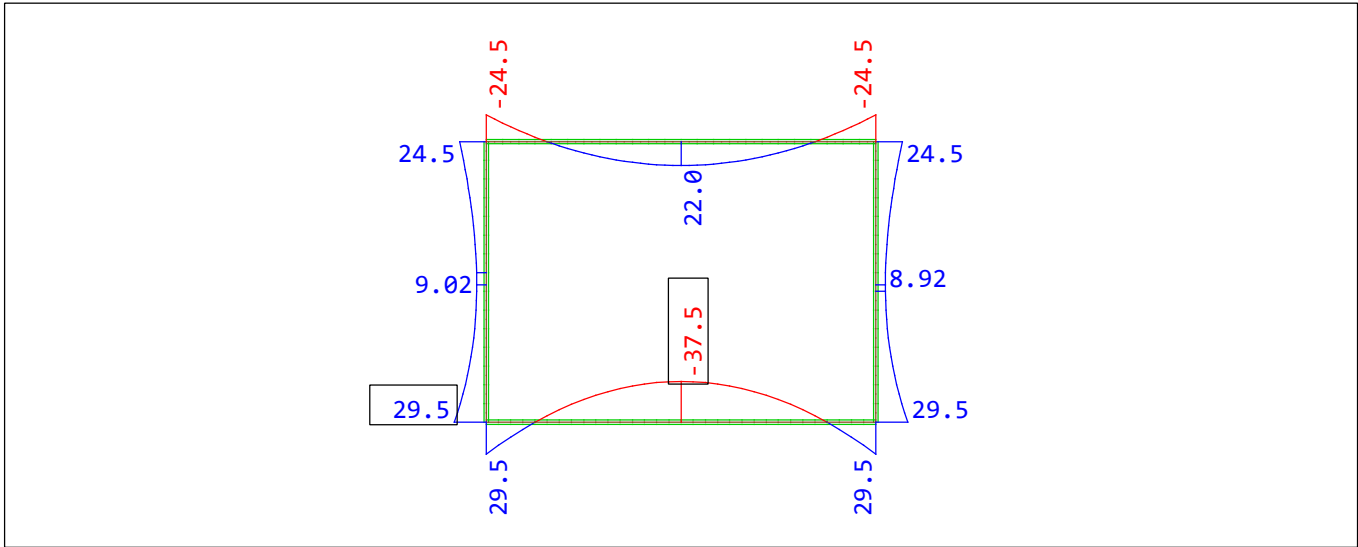
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΣΥΝΔΥΑΣΜΟΣ:411 G+C+R1 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-79.2)
 (Max=-22.2)

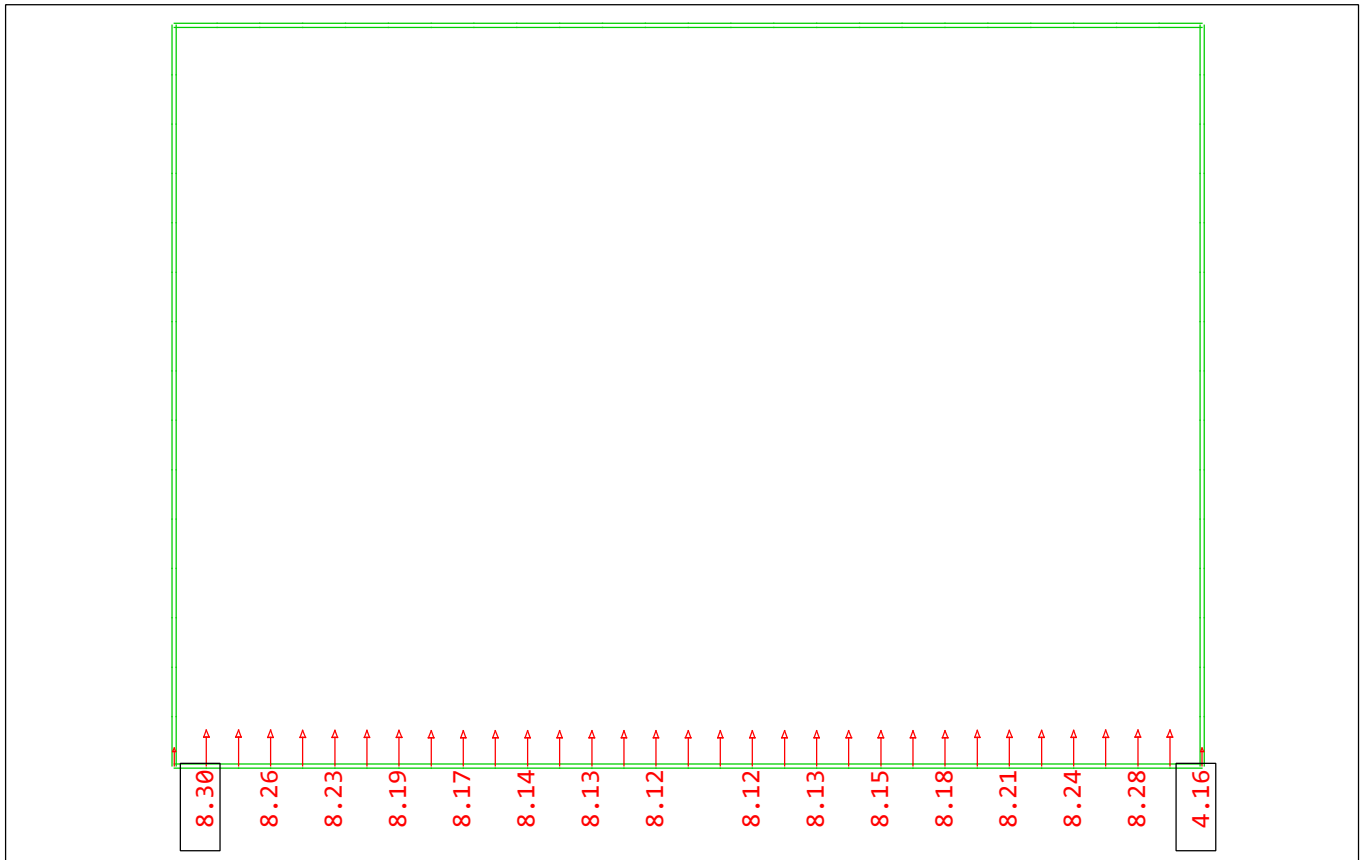


Beam Elements , Shear force Vz, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 174.2 kN (Min=-77.4)
 (Max=77.4)

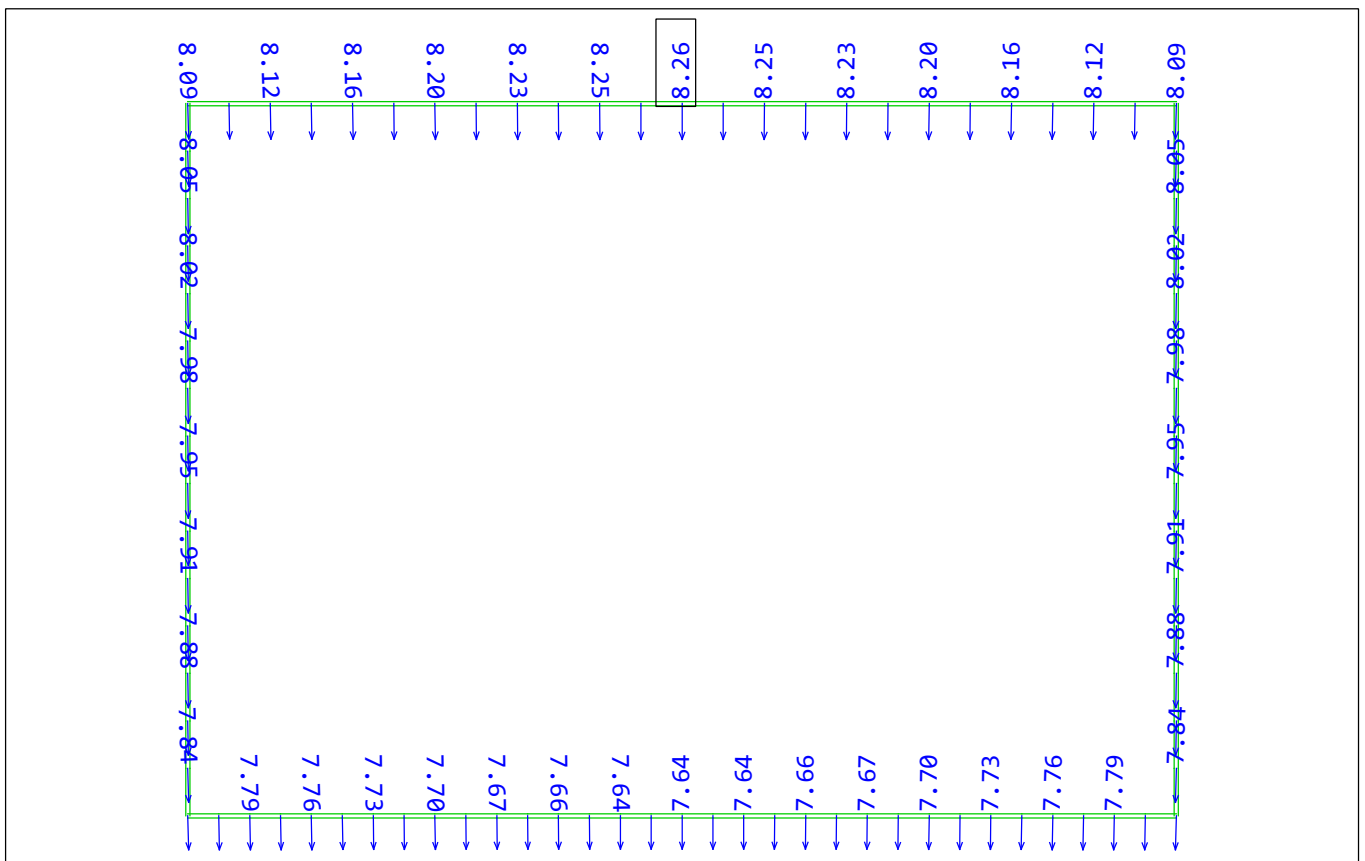


Beam Elements , Bending moment My, nonlinear Loadcase 411 G+C+R1 , 1 cm 3D = 69.7 kNm (Min=-37.5)
 (Max=29.5)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ: 428 G+C+R2+T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

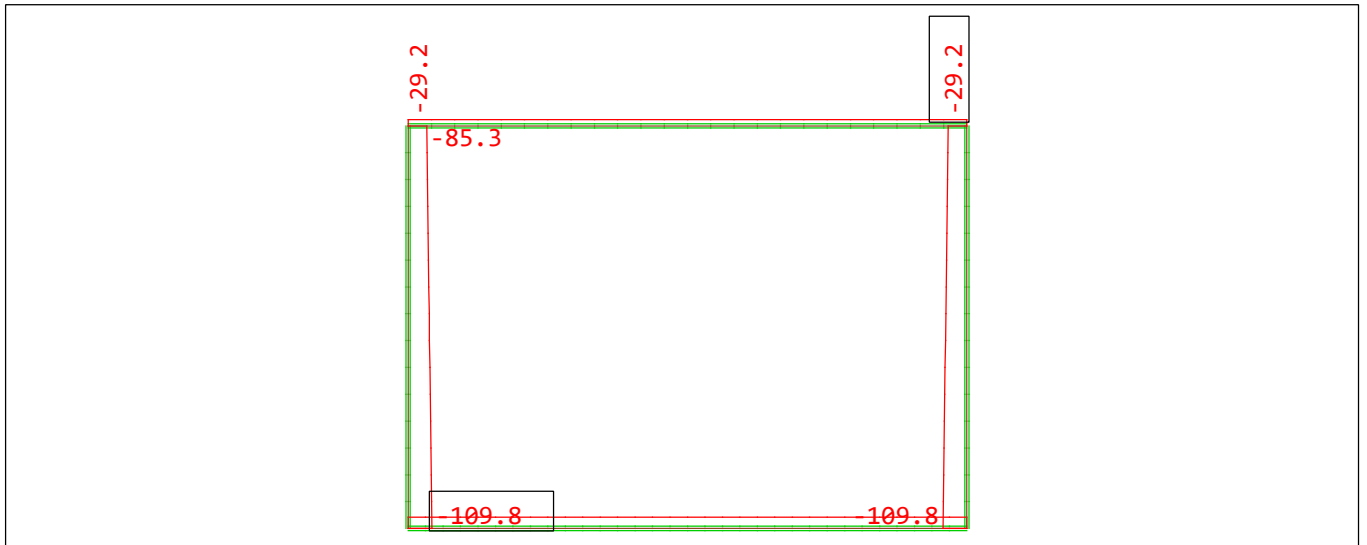


Spring force, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 17.4 kN
(Min=-8.30) (Max=0) (total: -262.1)

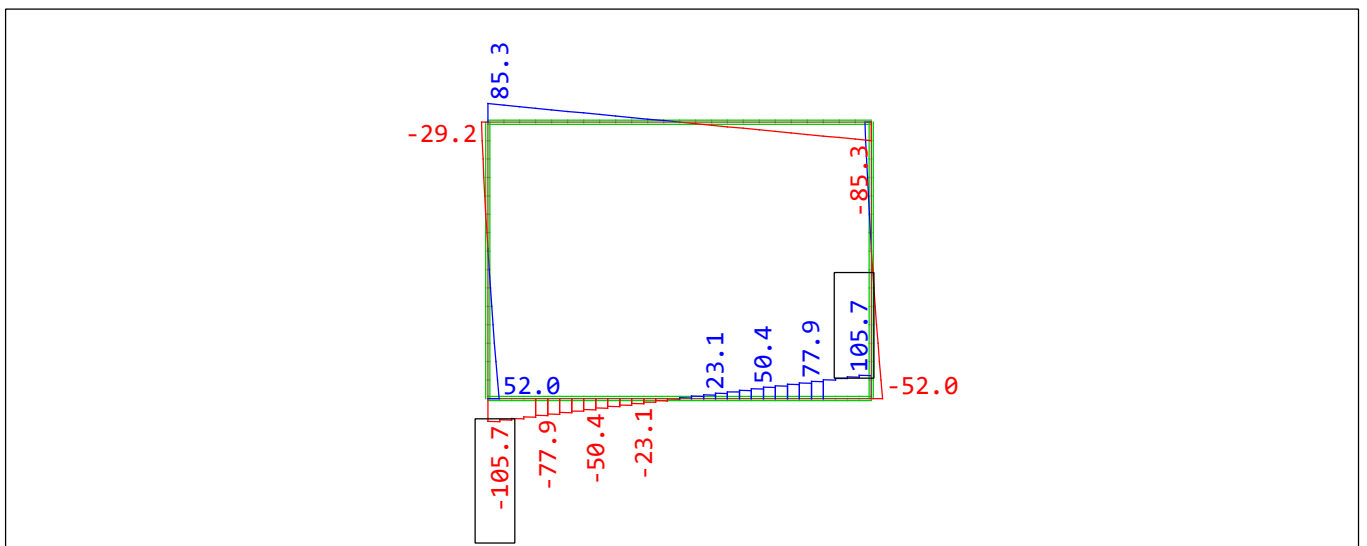


Nodal displacement vector, nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 17.4 mm
(Max=8.26)

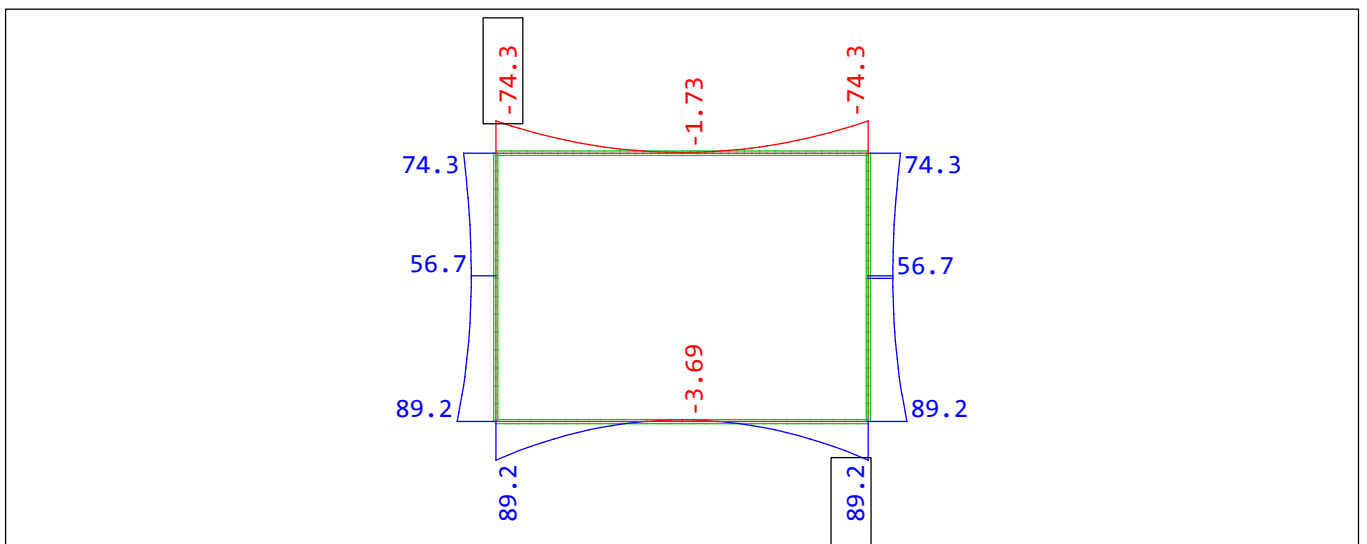
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N, V_z, M_y



Beam Elements , Normal force N_x , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-109.8)
(Max=-29.2)



Beam Elements , Shear force V_z , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kN (Min=-107.0)
(Max=107.0)



Beam Elements , Bending moment M_y , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 174.2 kNm
(Min=-74.3) (Max=89.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α2 -

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 1

Design combination

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
100	1.00	AG1	1.35G+C
101	1.00	AG1	1.35(G+R1)+C
102	1.00	AG1	G+1.35R1+C
103	1.00	AG1	1.35G+R1+C
104	1.00	AG1	1.35(G+R1)+C+1.2W
105	1.00	AG1	G+1.35R1+C+1.2W
106	1.00	AG1	1.35G+R1+C+1.2W
107	1.00	AG1	1.35(G+R1)+C+1.5Q1
108	1.00	AG1	G+1.35R1+C+1.5Q1
109	1.00	AG1	1.35G+R1+C+1.5Q1
110	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1
111	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1
112	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1
113	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
114	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
115	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
116	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
117	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
118	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
119	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
120	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
121	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
122	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
123	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
124	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
125	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
126	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
127	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
128	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
129	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
130	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
131	1.00	AG1	1.35(G+R1)+C+1.5Q1+0.75T
132	1.00	AG1	G+1.35R1+C+1.5Q1+0.75T
133	1.00	AG1	1.35G+R1+C+1.5Q1+0.75T
134	1.00	AG1	1.35(G+R1)+C+1.2W+1.5Q1+0.75T
135	1.00	AG1	G+1.35R1+C+1.2W+1.5Q1+0.75T
136	1.00	AG1	1.35G+R1+C+1.2W+1.5Q1+0.75T
137	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
138	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
139	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
140	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
141	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
142	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
143	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
144	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
145	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
146	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
147	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
148	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
149	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
150	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

Load Case selection

Number	Fact	Type	Designation
151	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
152	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
153	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
154	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
155	1.00	AG1	1.35(G+R1)+C+0.9Q1+1.5T
156	1.00	AG1	G+1.35R1+C+0.9Q1+1.5T
157	1.00	AG1	1.35G+R1+C+0.9Q1+1.5T
158	1.00	AG1	1.35(G+R1)+C+1.2W+0.9Q1+1.5T
159	1.00	AG1	G+1.35R1+C+1.2W+0.9Q1+1.5T
160	1.00	AG1	1.35G+R1+C+1.2W+0.9Q1+1.5T
161	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
162	1.00	AG1	G+1.35R1+C+1.2W+1.5T
163	1.00	AG1	1.35G+R1+C+1.2W+1.5T
164	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
165	1.00	AG1	G+1.35R1+C+1.2W+1.5T
166	1.00	AG1	1.35G+R1+C+1.2W+1.5T
167	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
168	1.00	AG1	G+1.35R1+C+1.2W+1.5T
169	1.00	AG1	1.35G+R1+C+1.2W+1.5T
170	1.00	AG1	1.35(G+R1)+C+1.2W+1.5T
171	1.00	AG1	G+1.35R1+C+1.2W+1.5T
172	1.00	AG1	1.35G+R1+C+1.2W+1.5T
201	1.00	AG1	1.35(G+R2)+C
202	1.00	AG1	G+1.35R2+C
203	1.00	AG1	1.35G+R2+C
204	1.00	AG1	1.35(G+R2)+C+1.2W
205	1.00	AG1	G+1.35R2+C+1.2W
206	1.00	AG1	1.35G+R2+C+1.2W
207	1.00	AG1	1.35(G+R2)+C+1.5Q2
208	1.00	AG1	G+1.35R2+C+1.5Q2
209	1.00	AG1	1.35G+R2+C+1.5Q2
210	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2
211	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2
212	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2
213	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
214	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
215	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
216	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
220	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
221	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
222	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
226	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
227	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
228	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
232	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
233	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
234	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

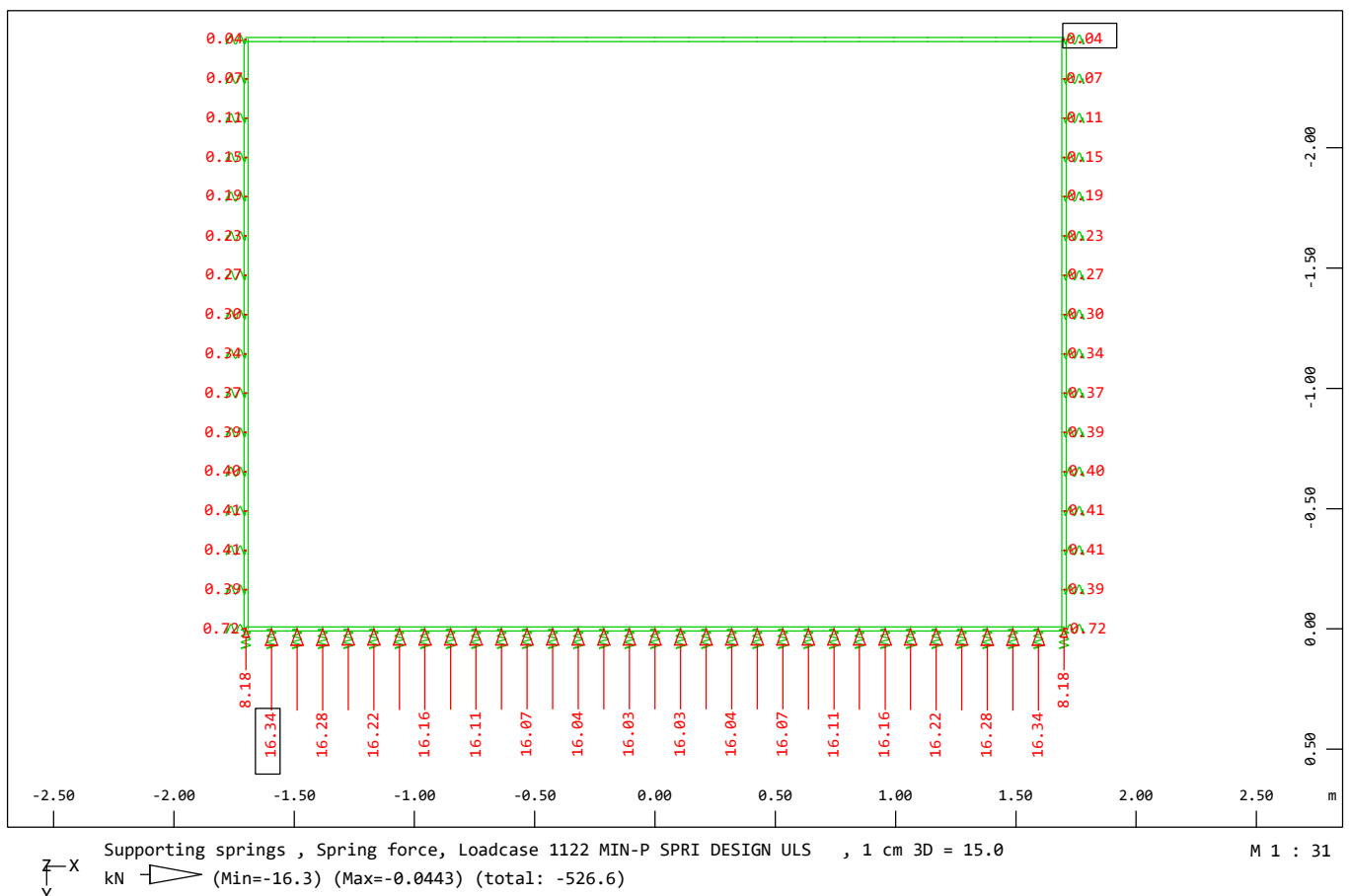
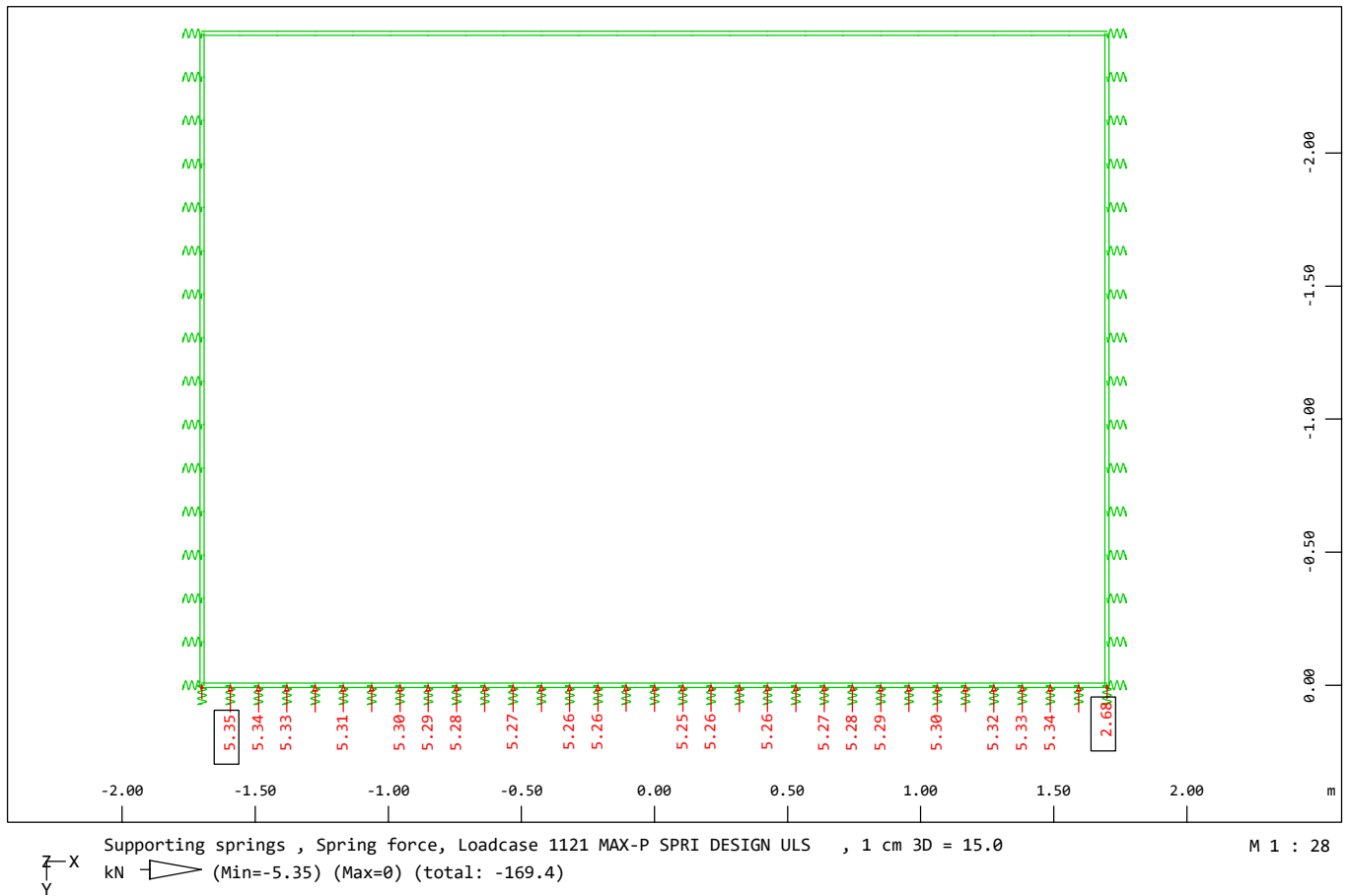
Load Case selection

Number	Fact	Type	Designation
236	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
238	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
239	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
240	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
244	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
245	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
246	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
250	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
251	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
252	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
256	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
257	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
258	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
262	1.00	AG1	G+1.35R2+C+1.2W+1.5T
263	1.00	AG1	1.35G+R2+C+1.2W+1.5T
264	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
265	1.00	AG1	G+1.35R2+C+1.2W+1.5T
266	1.00	AG1	1.35G+R2+C+1.2W+1.5T
267	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
268	1.00	AG1	G+1.35R2+C+1.2W+1.5T
269	1.00	AG1	1.35G+R2+C+1.2W+1.5T
270	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
271	1.00	AG1	G+1.35R2+C+1.2W+1.5T
272	1.00	AG1	1.35G+R2+C+1.2W+1.5T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

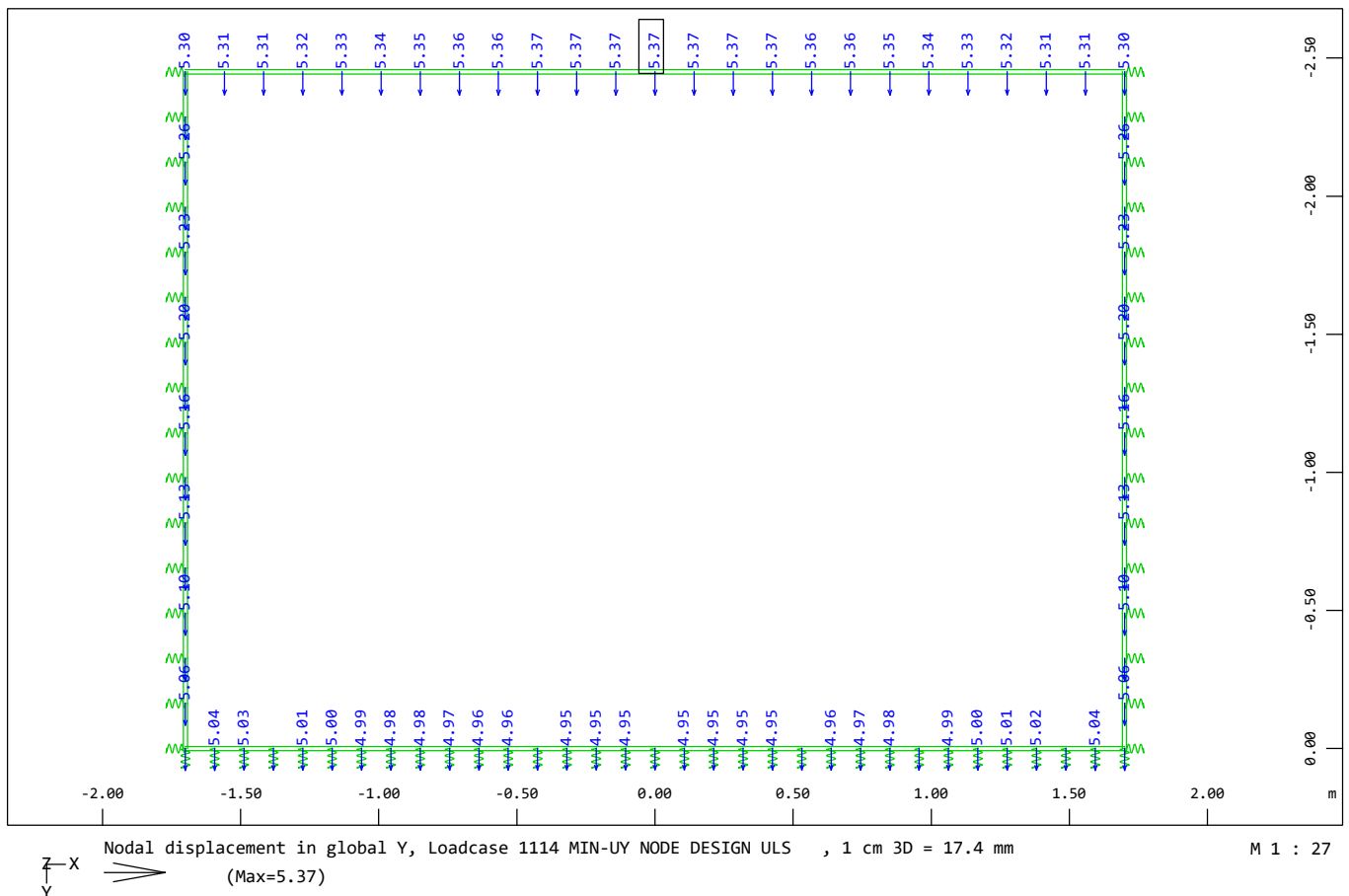
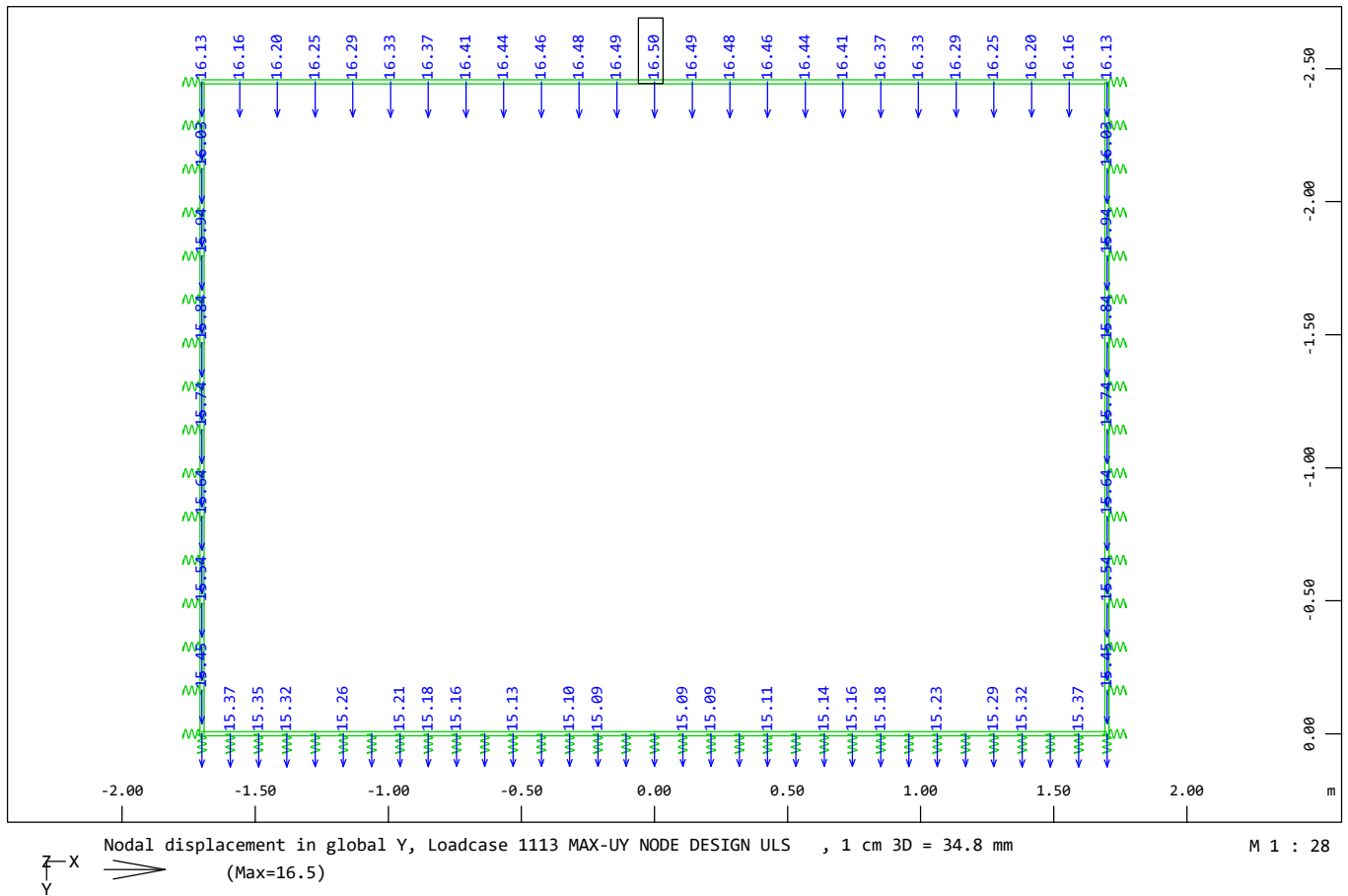
Number	Combination	Designation
1101	1	MAX-N BEAM DESIGN ULS
1102	1	MIN-N BEAM DESIGN ULS
1103	1	MAX-MY BEAM DESIGN ULS
1104	1	MIN-MY BEAM DESIGN ULS
1105	1	MAX-VZ BEAM DESIGN ULS
1106	1	MIN-VZ BEAM DESIGN ULS
1111	1	MAX-UX NODE DESIGN ULS
1112	1	MIN-UX NODE DESIGN ULS
1113	1	MAX-UY NODE DESIGN ULS
1114	1	MIN-UY NODE DESIGN ULS
1121	1	MAX-P SPRI DESIGN ULS
1122	1	MIN-P SPRI DESIGN ULS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

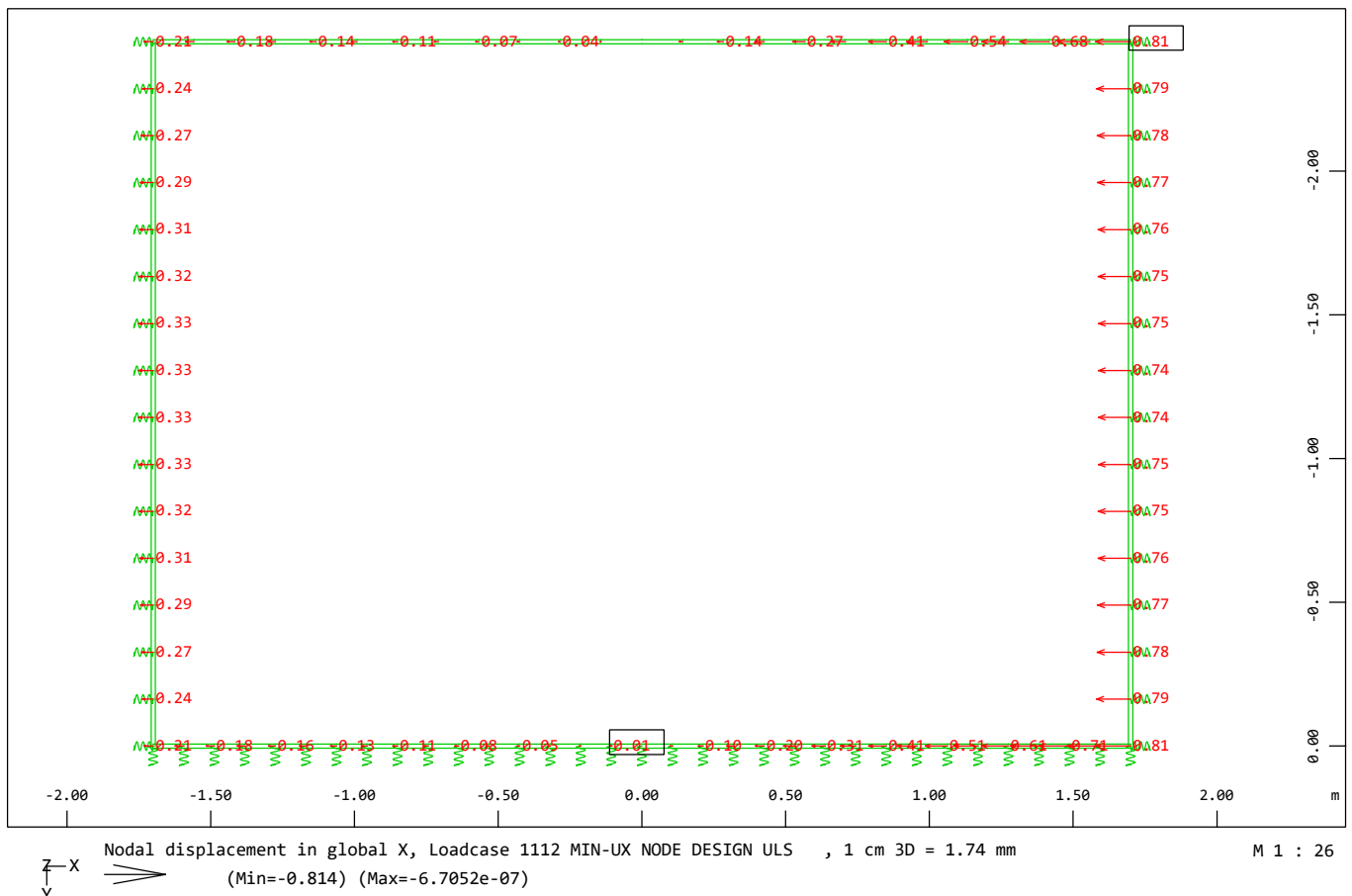
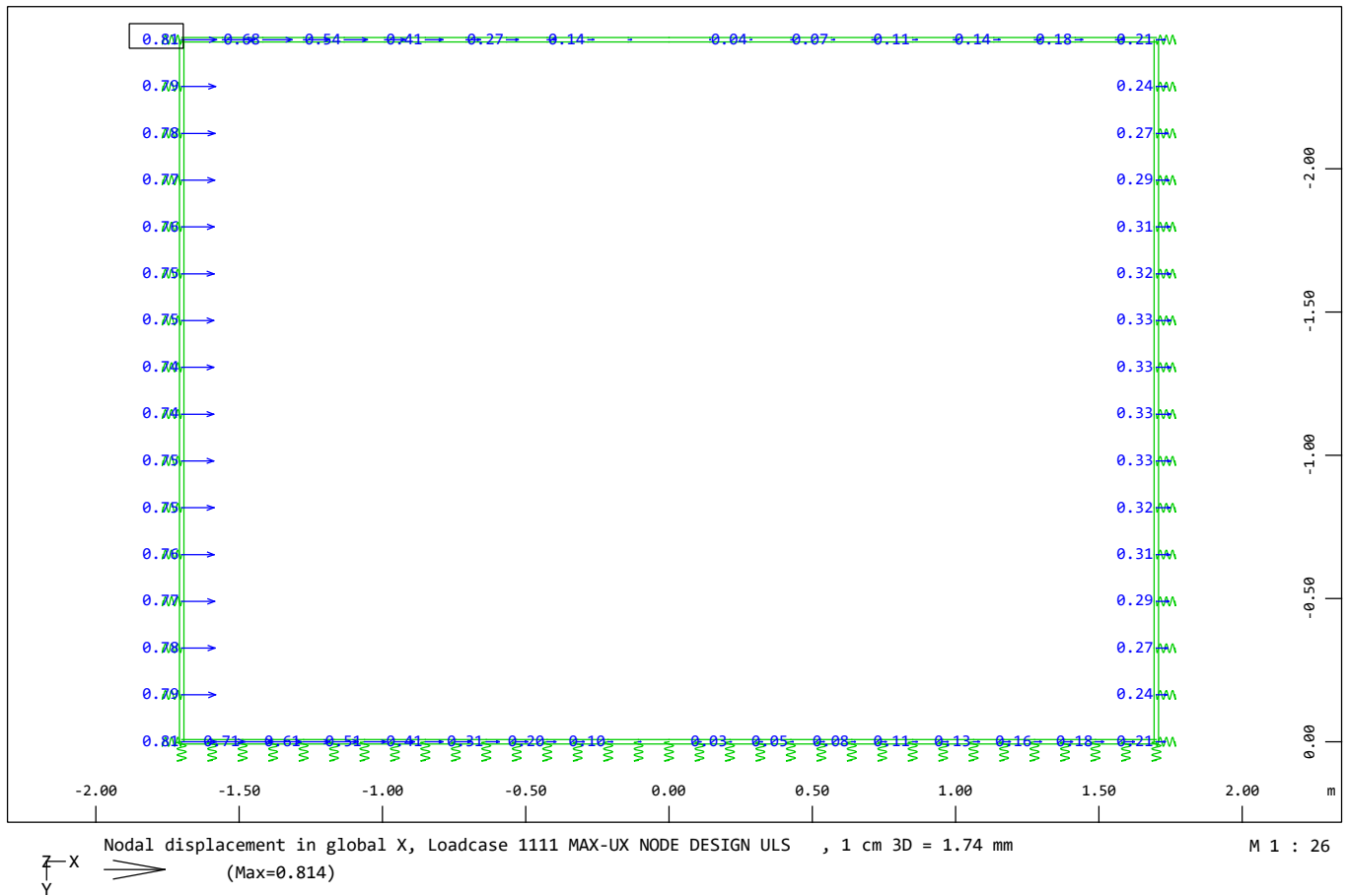


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

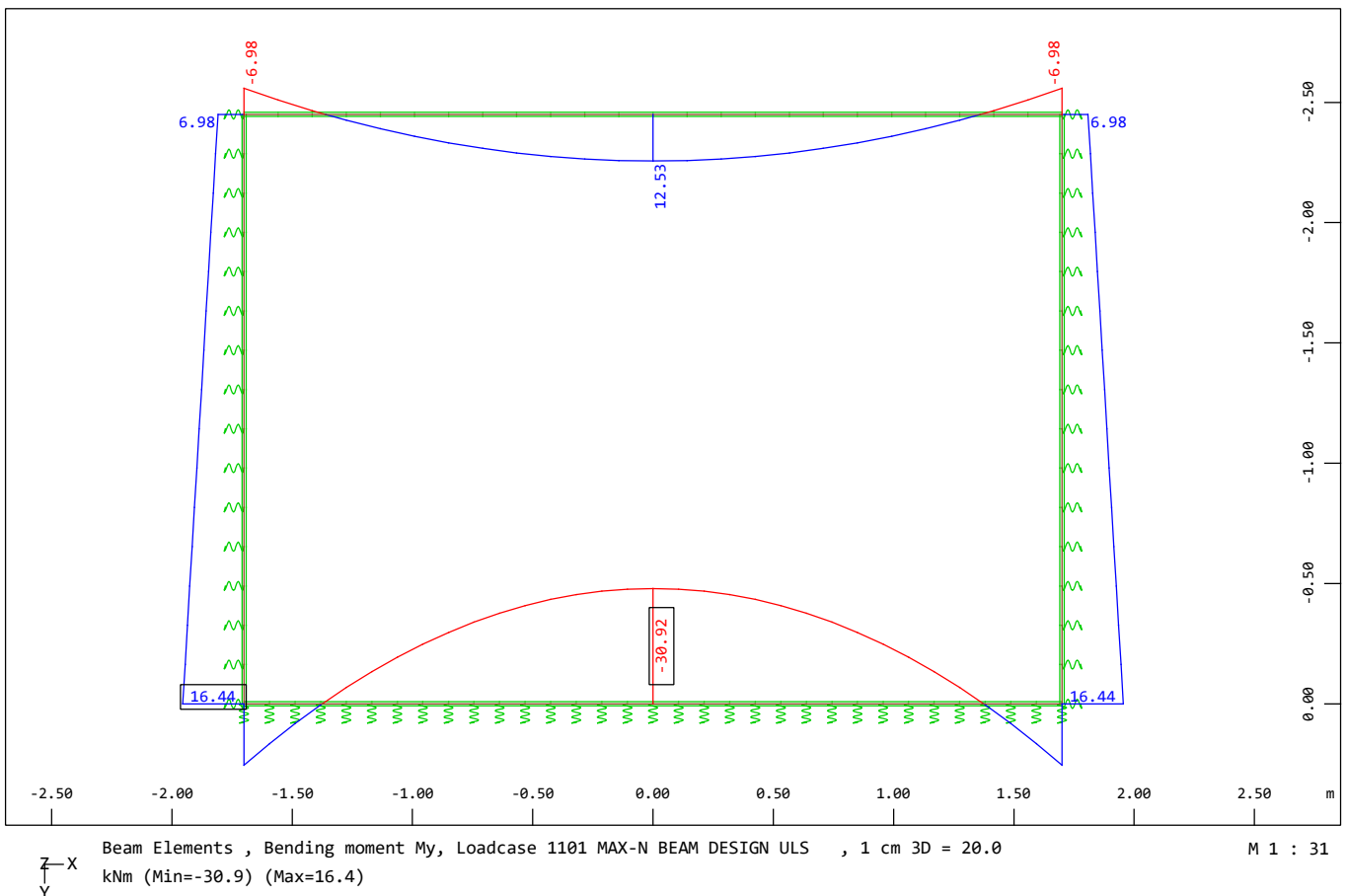
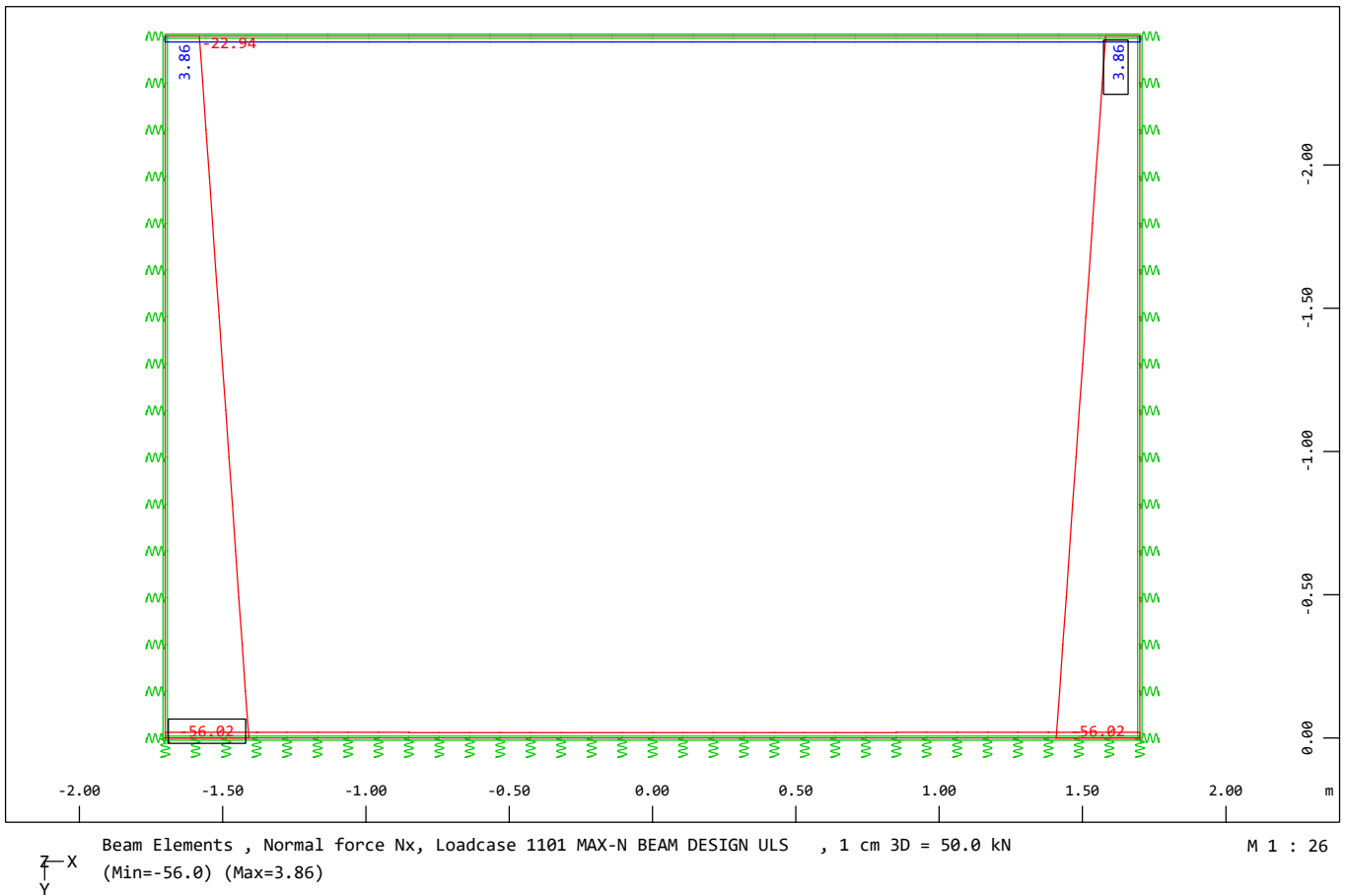
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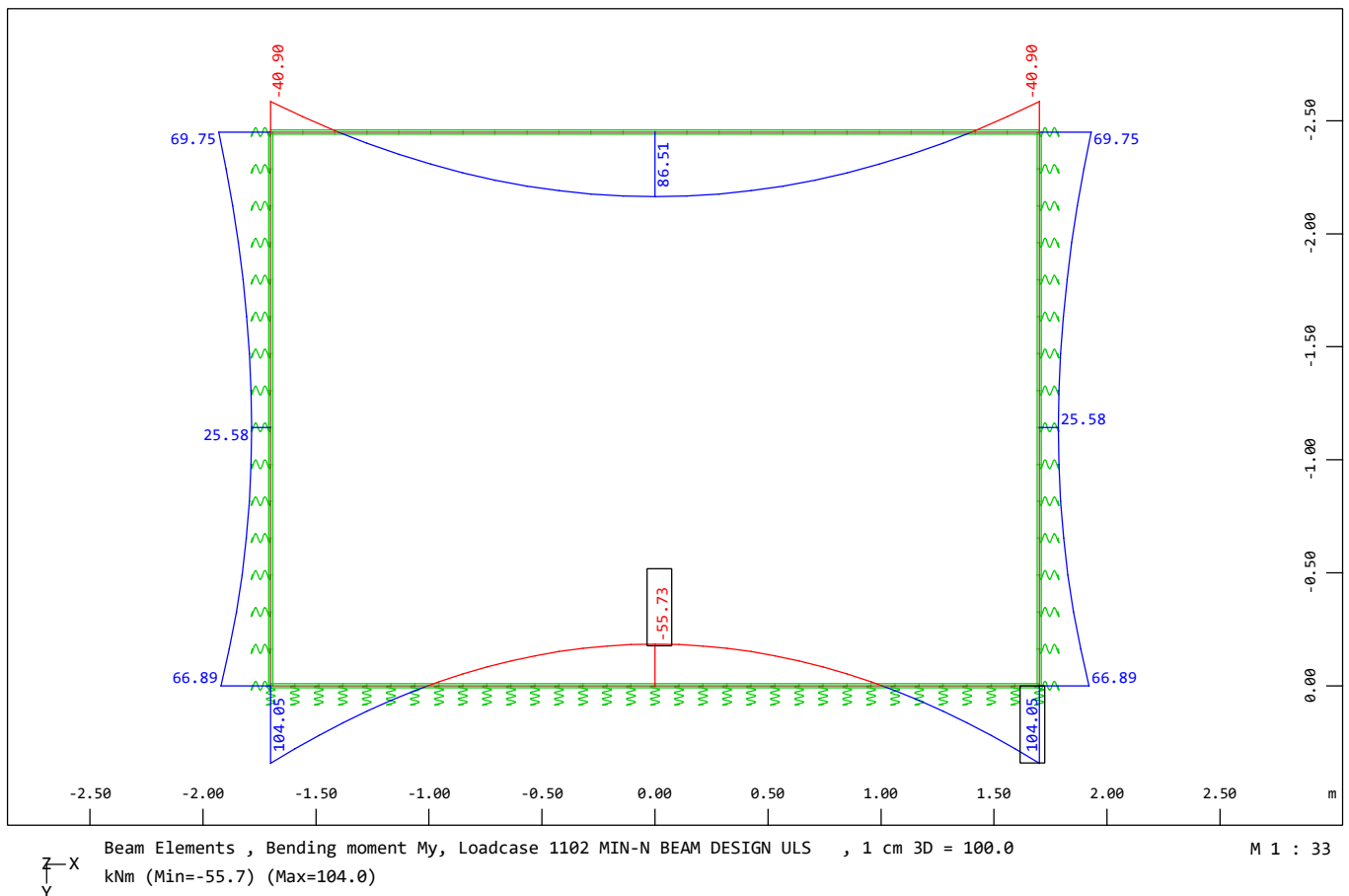
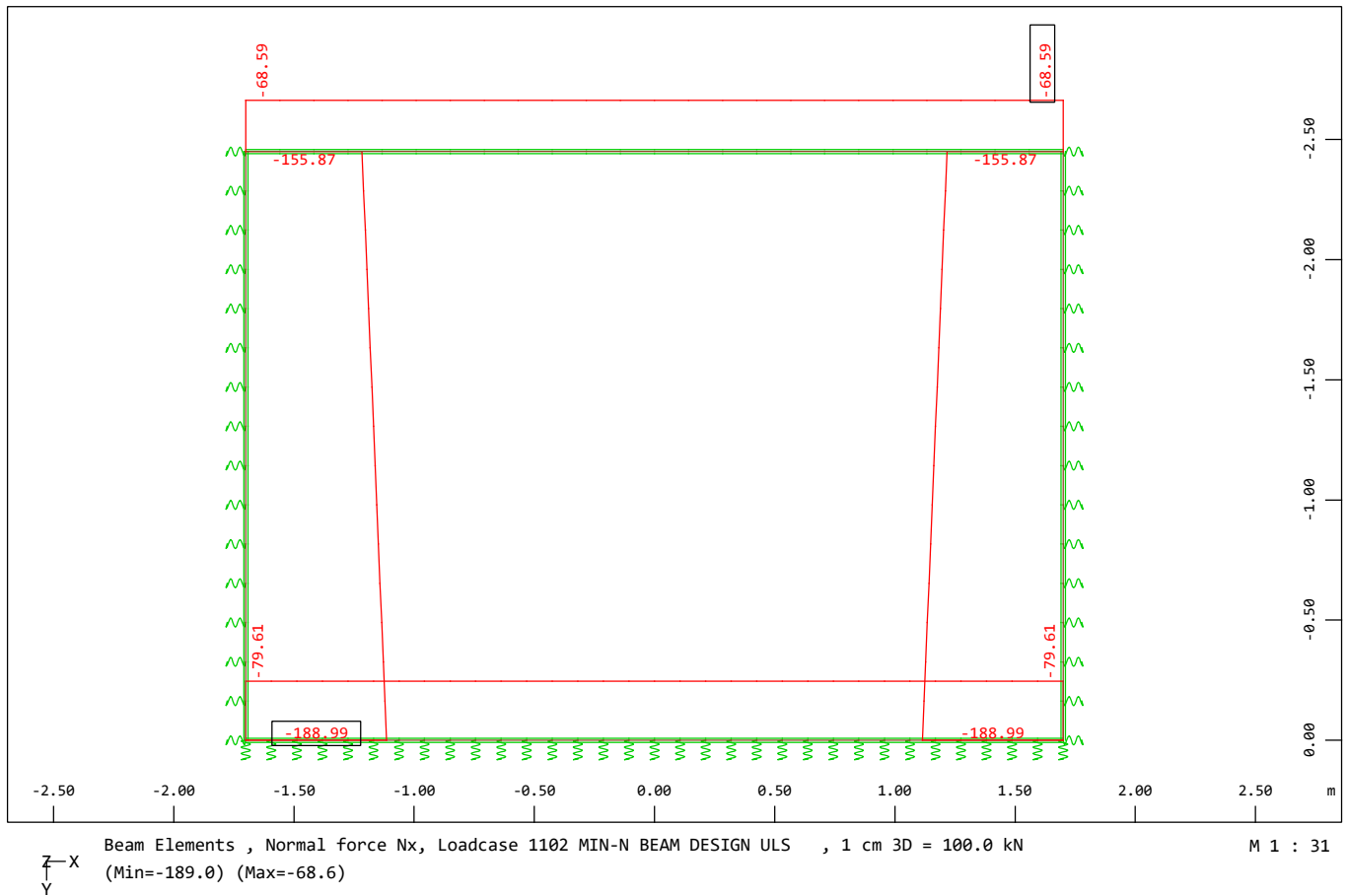
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- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



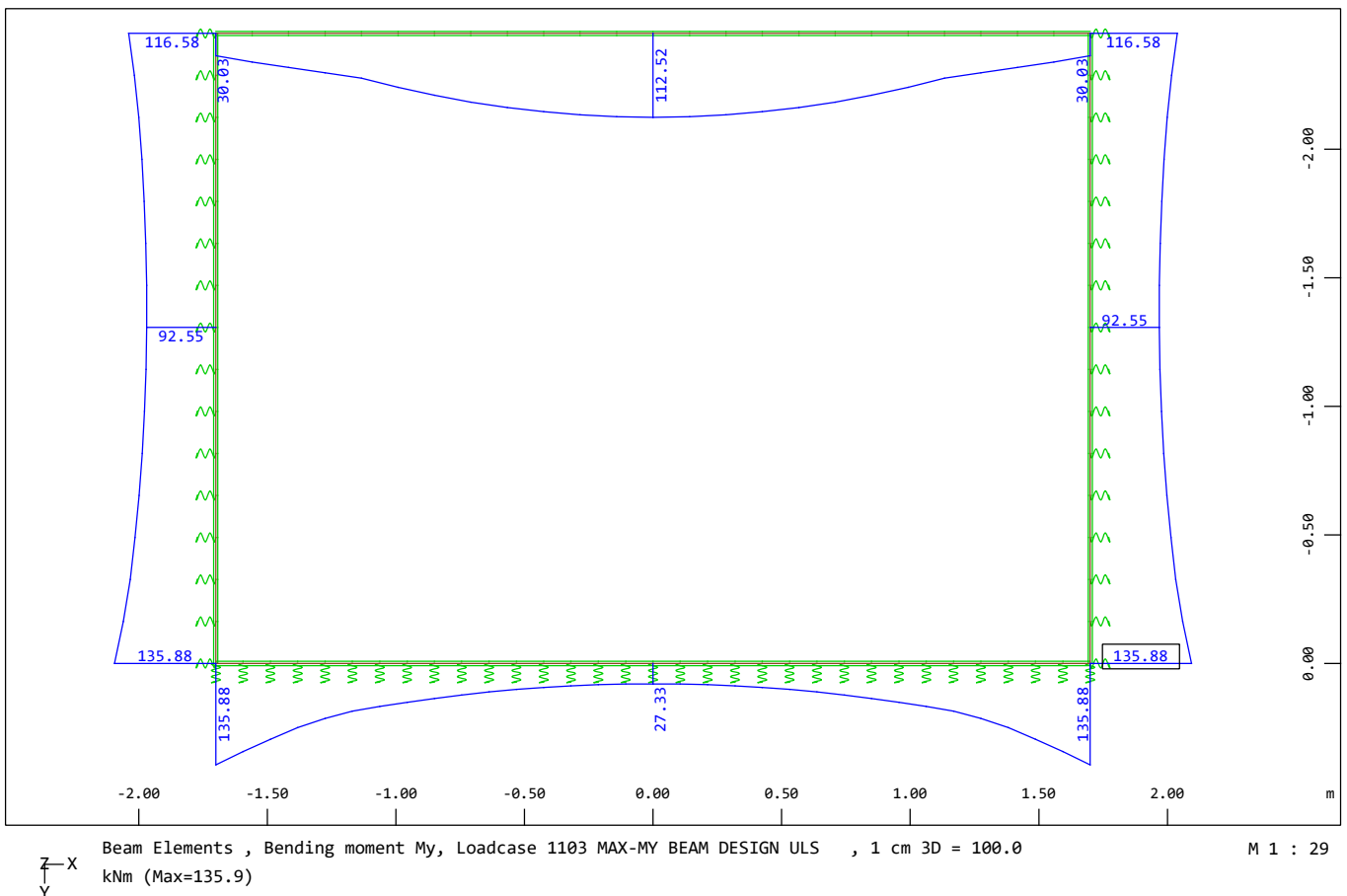
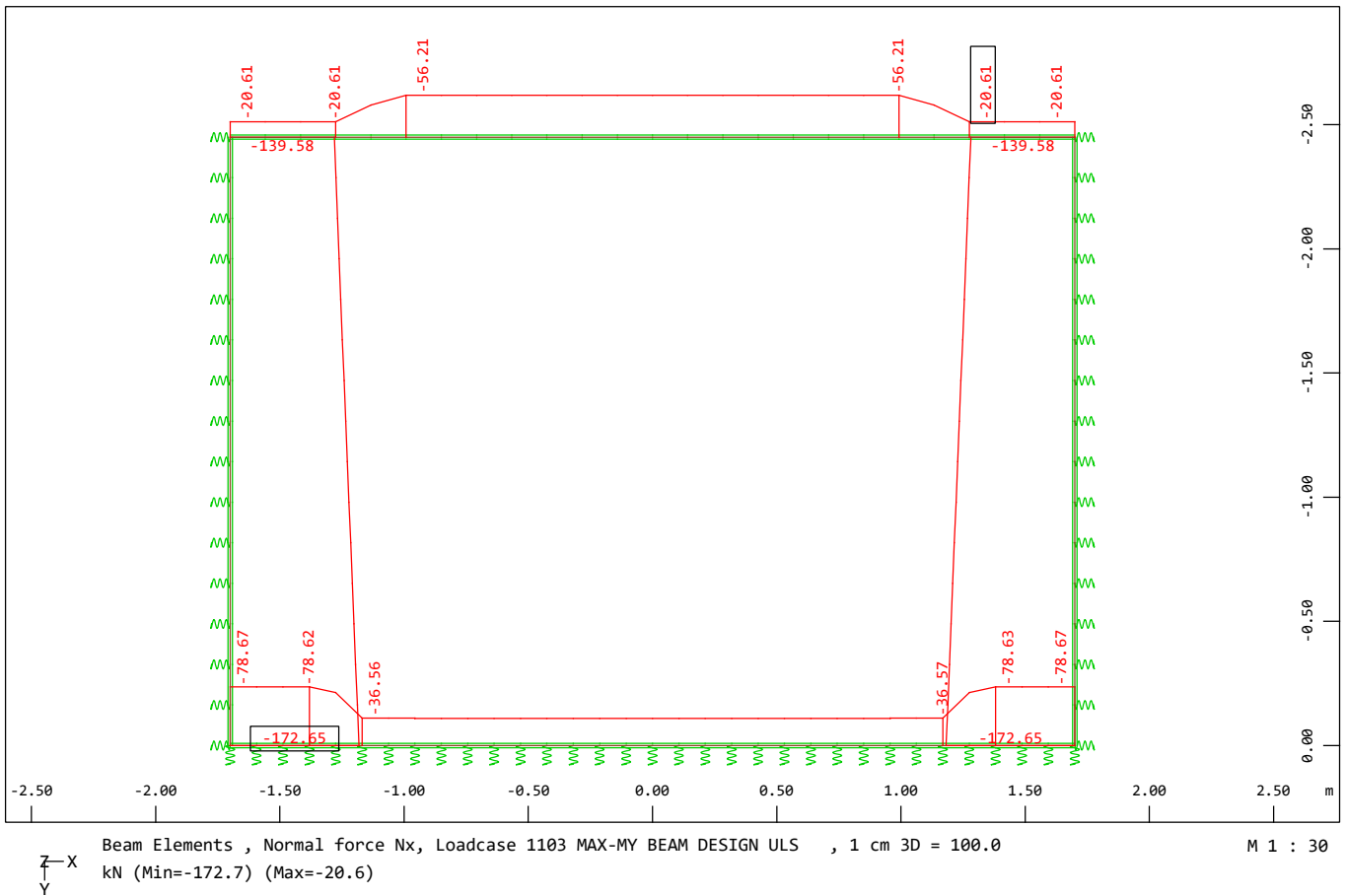
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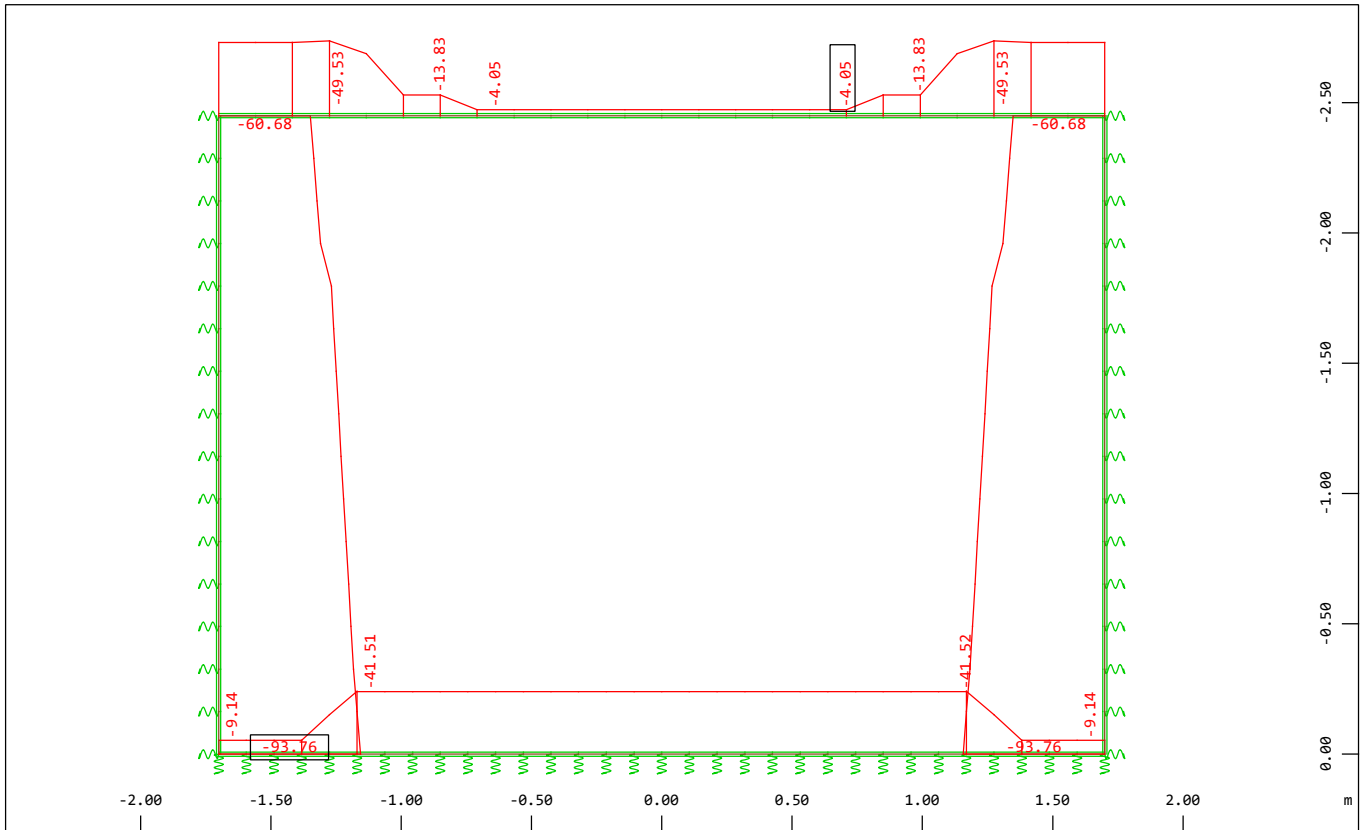
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- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



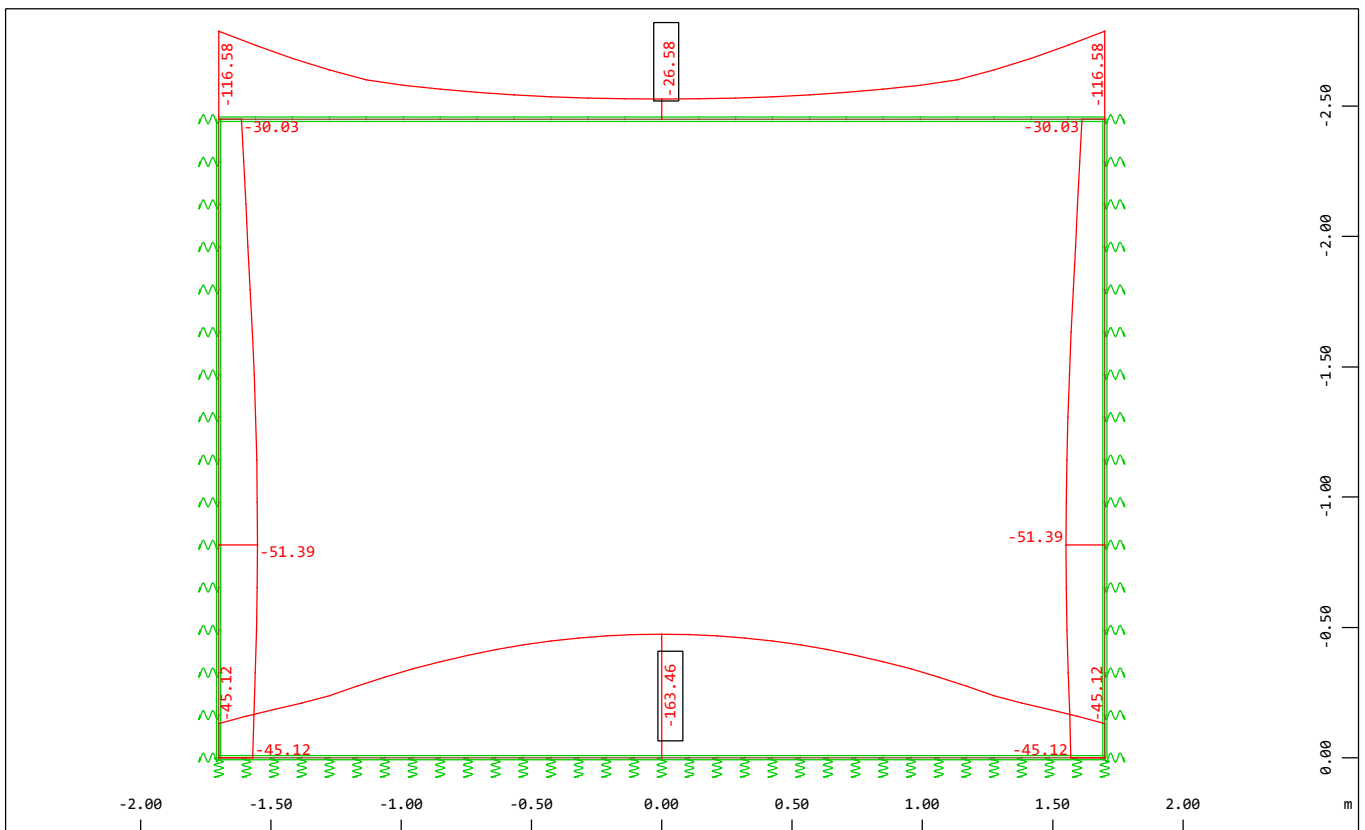
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- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ

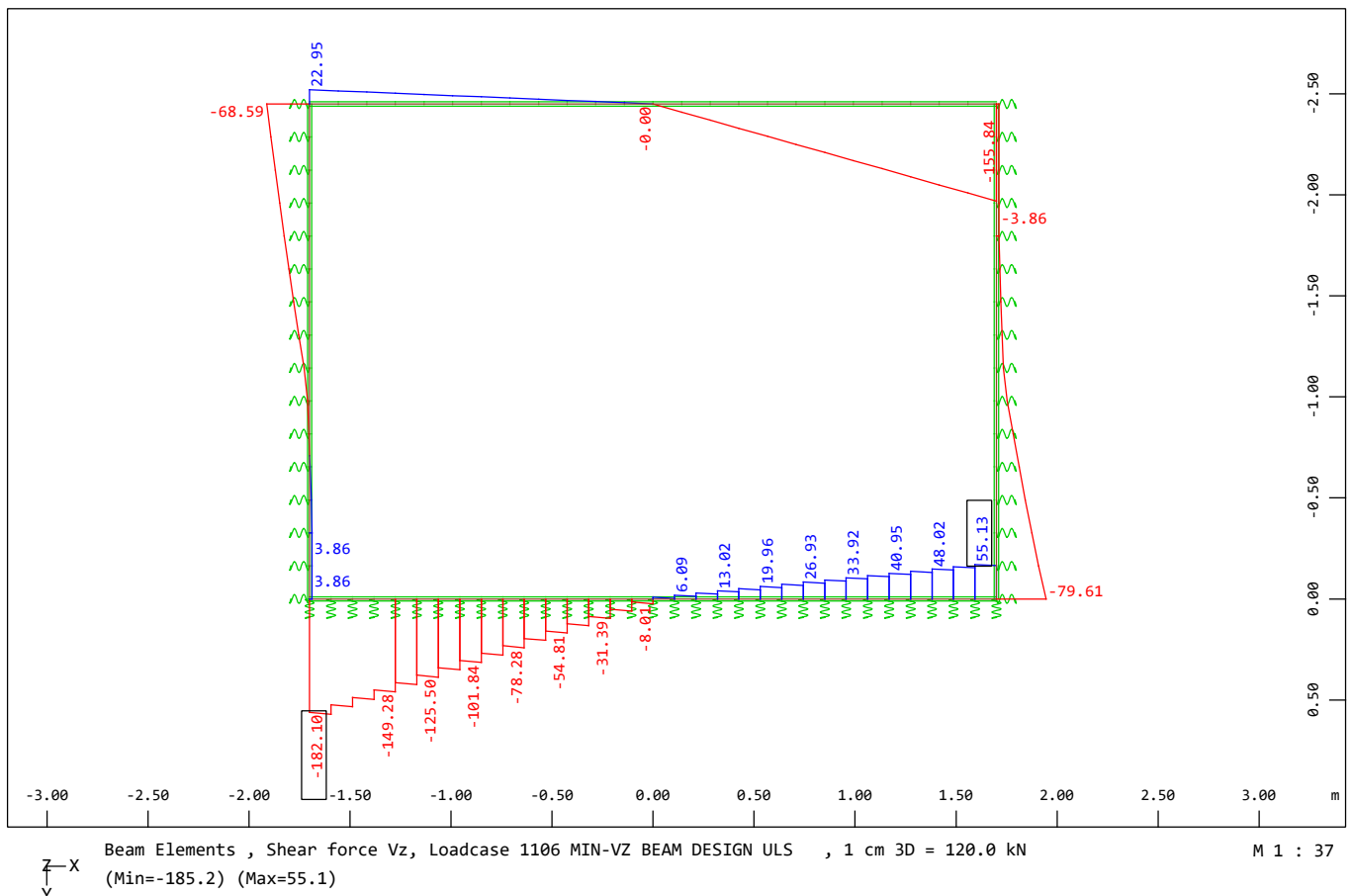
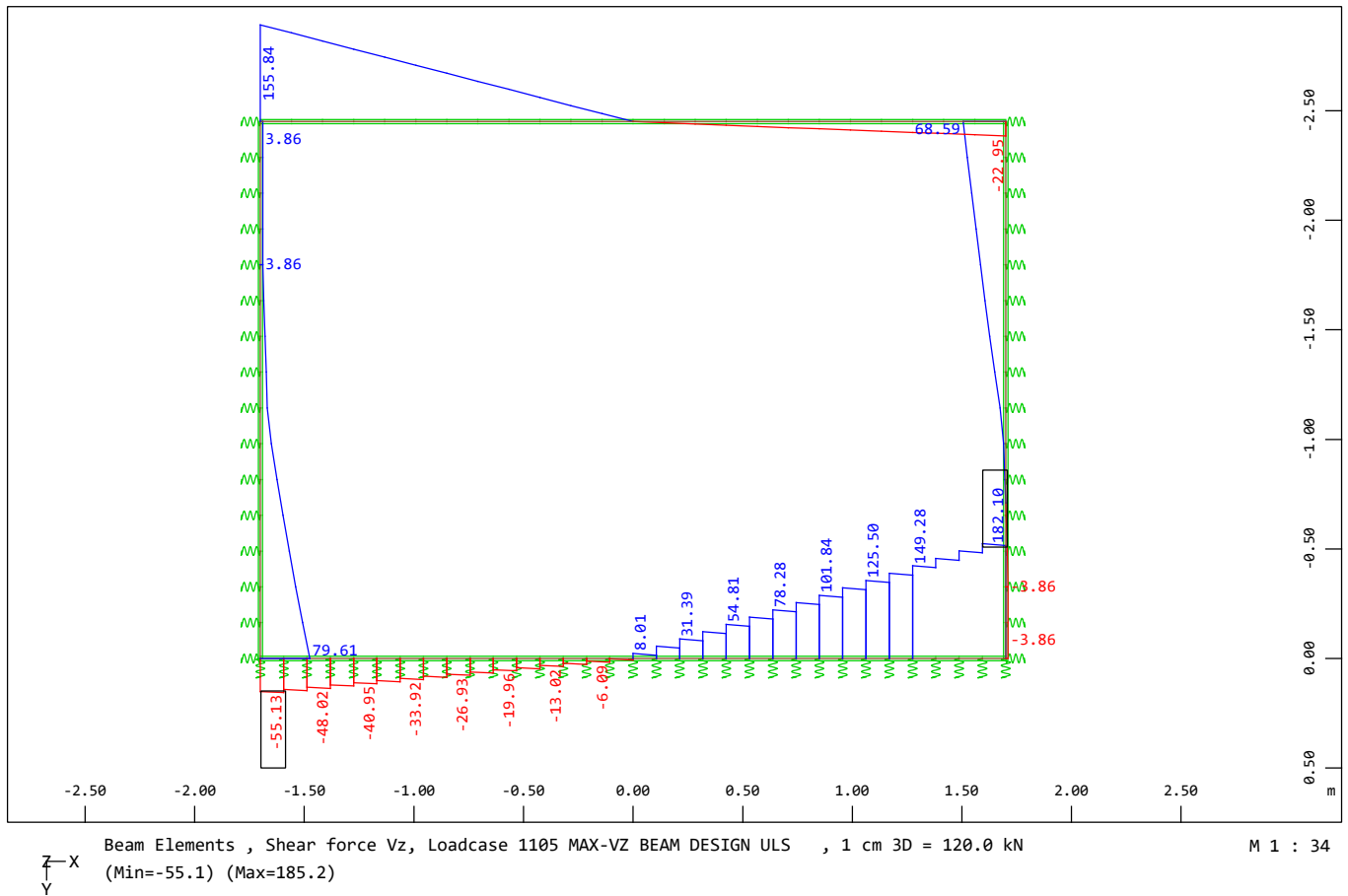


Z-X
Y



Z-X
Y

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΟΝ ΣΥΝΔΥΑΣΜΟΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΑΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 2
 Design combination
 Resulting Load Cases type ULS fundamental combination

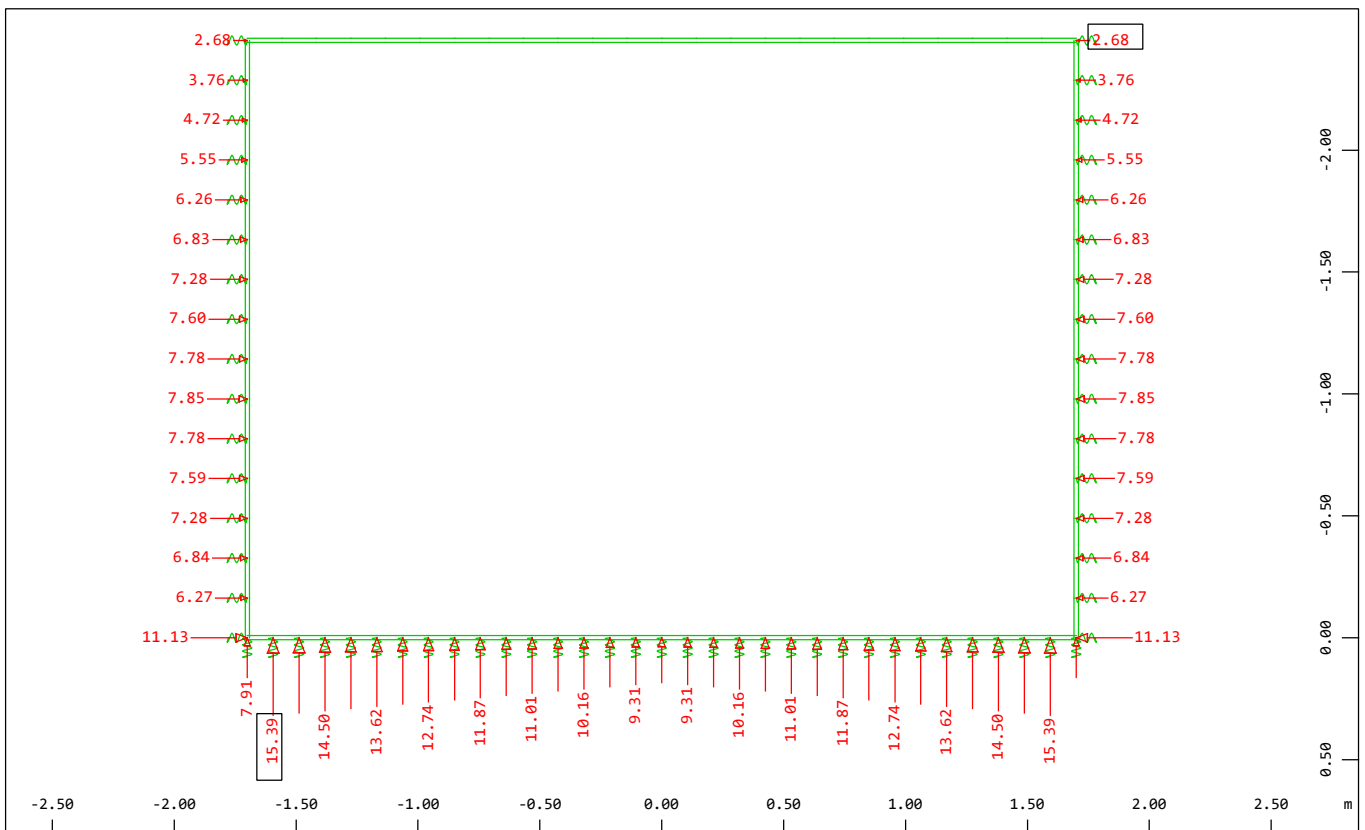
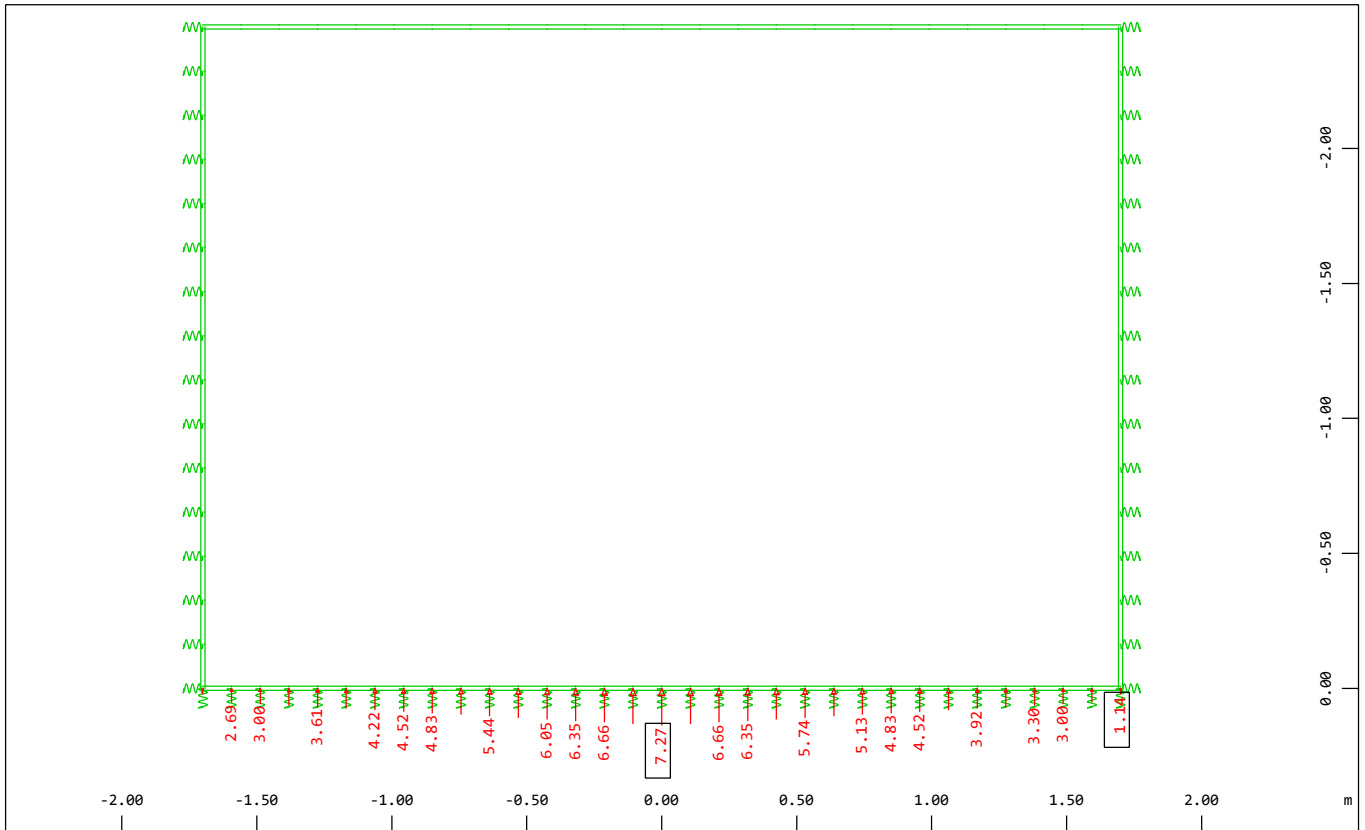
Load Case selection

Number	Fact	Type	Designation
311	1.00	AG1	G+C+R1+0.2(W+Q1)+EA1
312	1.00	AG1	G+C+R1+0.2(W+Q1)-EA1
313	1.00	AG1	G+C+R1+0.2(W+Q1)+ES1
321	1.00	AG1	G+C+R2+0.2(W+Q2)+EA2
322	1.00	AG1	G+C+R2+0.2(W+Q2)-EA2
323	1.00	AG1	G+C+R2+0.2(W+Q2)+ES2
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

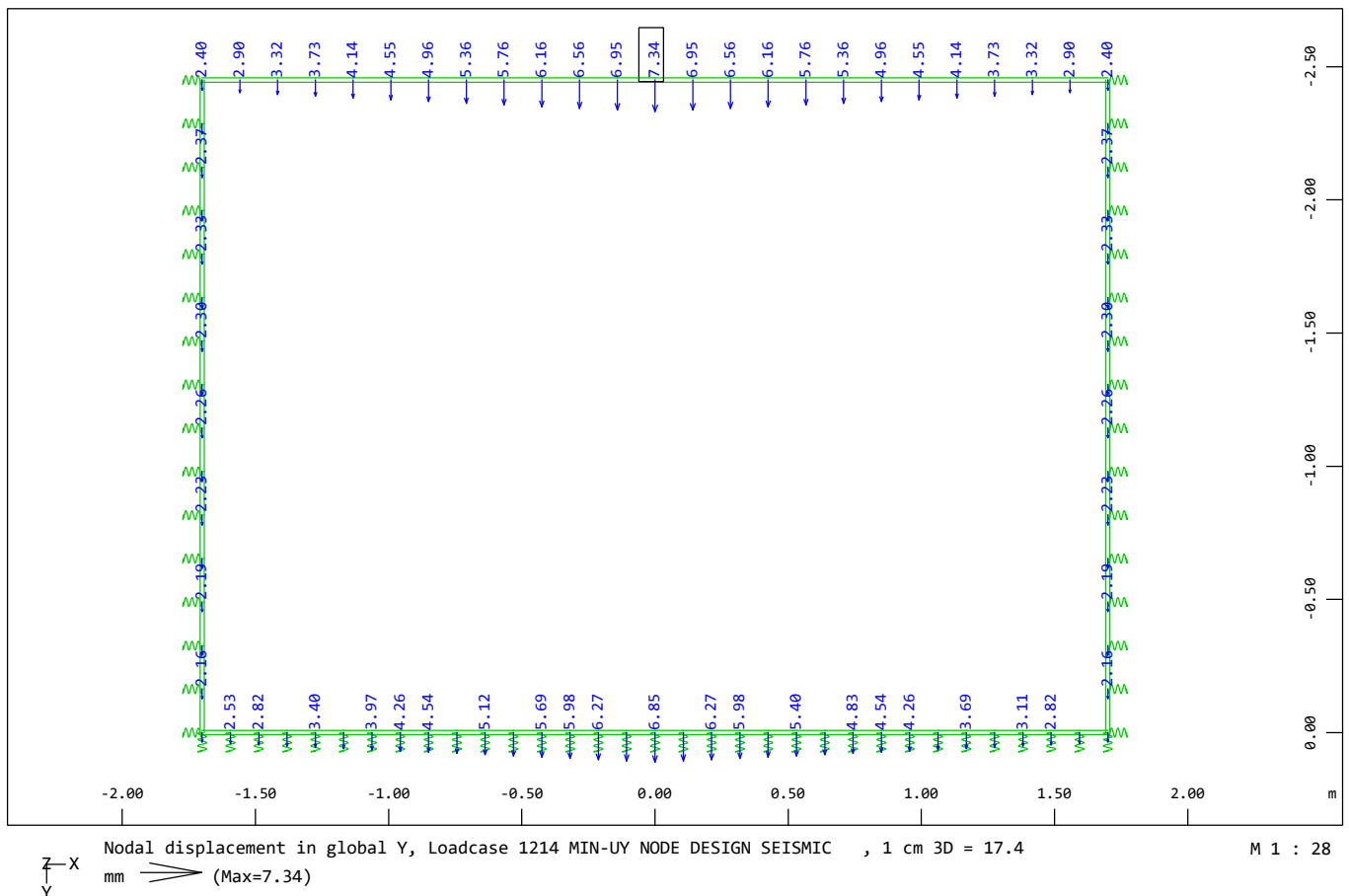
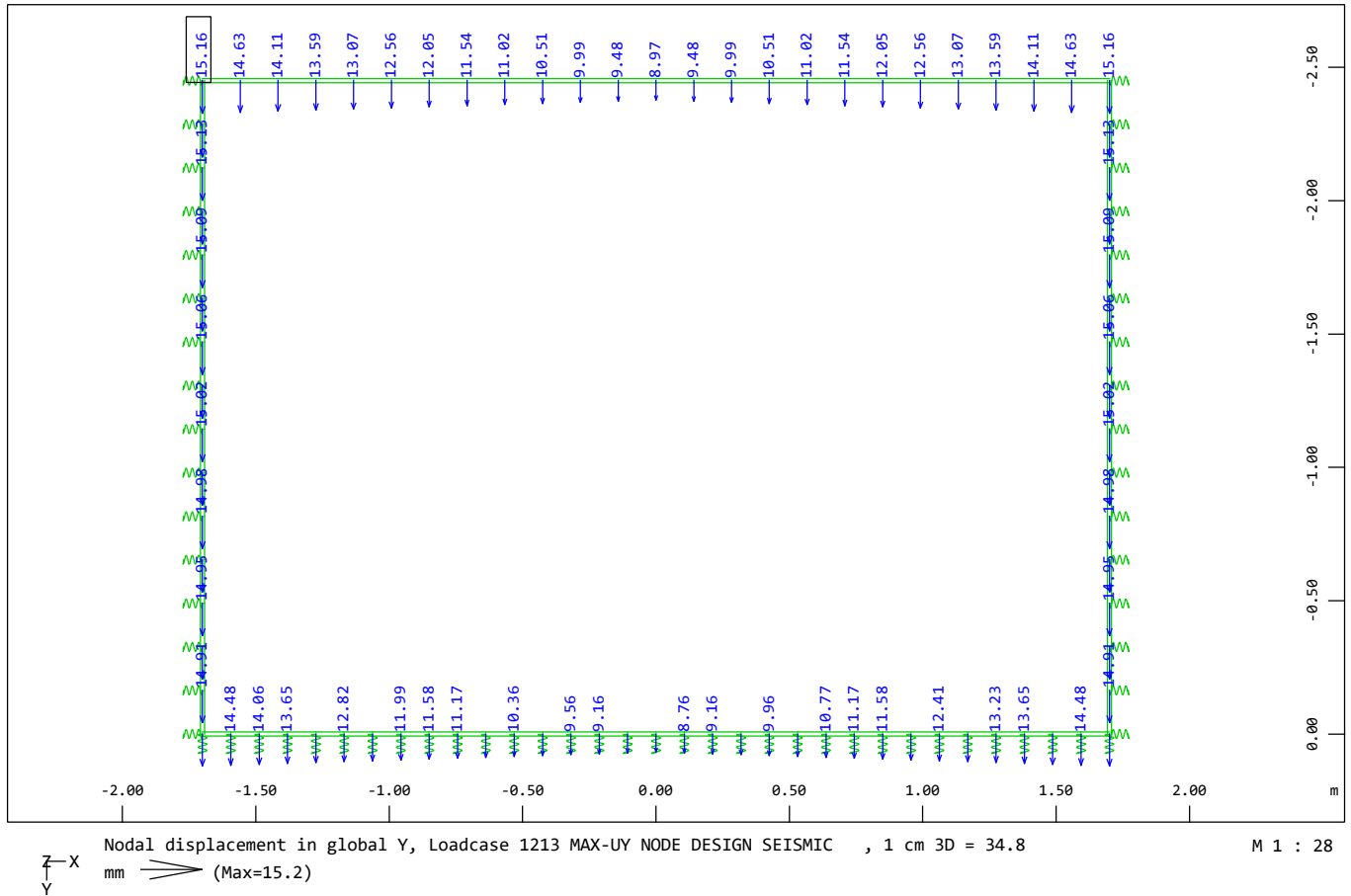
Number	Combination	Designation
1201	2	MAX-N BEAM DESIGN SEISMIC
1202	2	MIN-N BEAM DESIGN SEISMIC
1203	2	MAX-MY BEAM DESIGN SEISMIC
1204	2	MIN-MY BEAM DESIGN SEISMIC
1205	2	MAX-VZ BEAM DESIGN SEISMIC
1206	2	MIN-VZ BEAM DESIGN SEISMIC
1211	2	MAX-UX NODE DESIGN SEISMIC
1212	2	MIN-UX NODE DESIGN SEISMIC
1213	2	MAX-UY NODE DESIGN SEISMIC
1214	2	MIN-UY NODE DESIGN SEISMIC
1221	2	MAX-P SPRI DESIGN SEISMIC
1222	2	MIN-P SPRI DESIGN SEISMIC

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

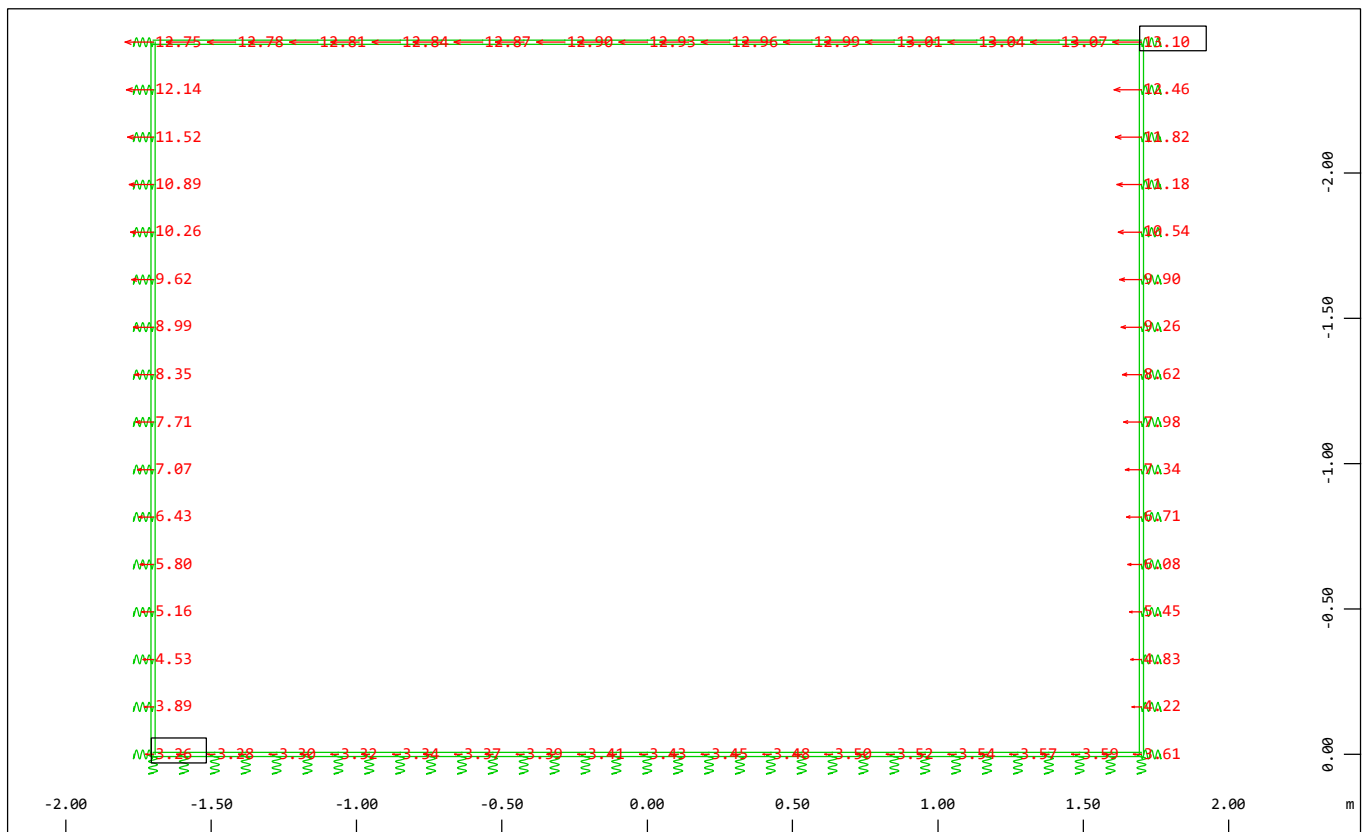
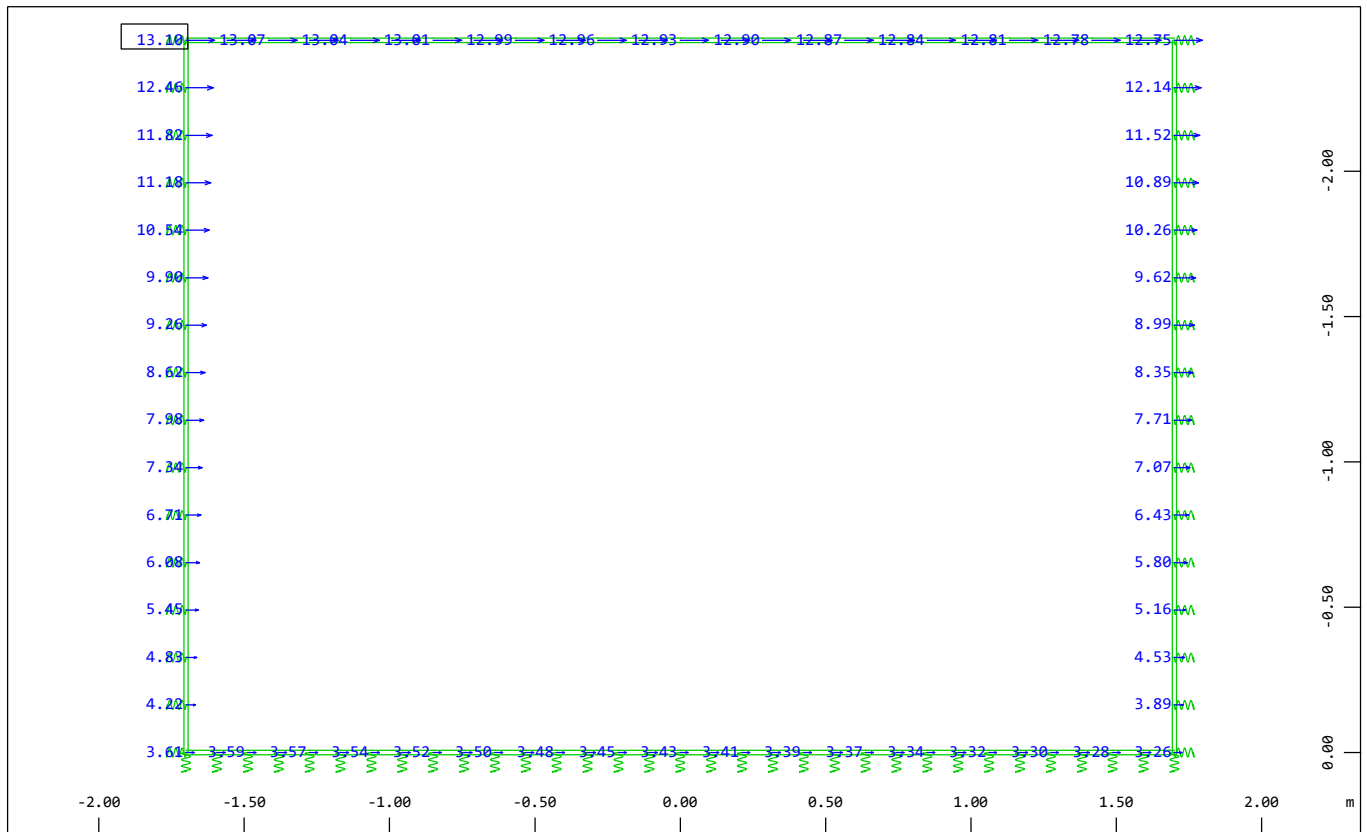


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

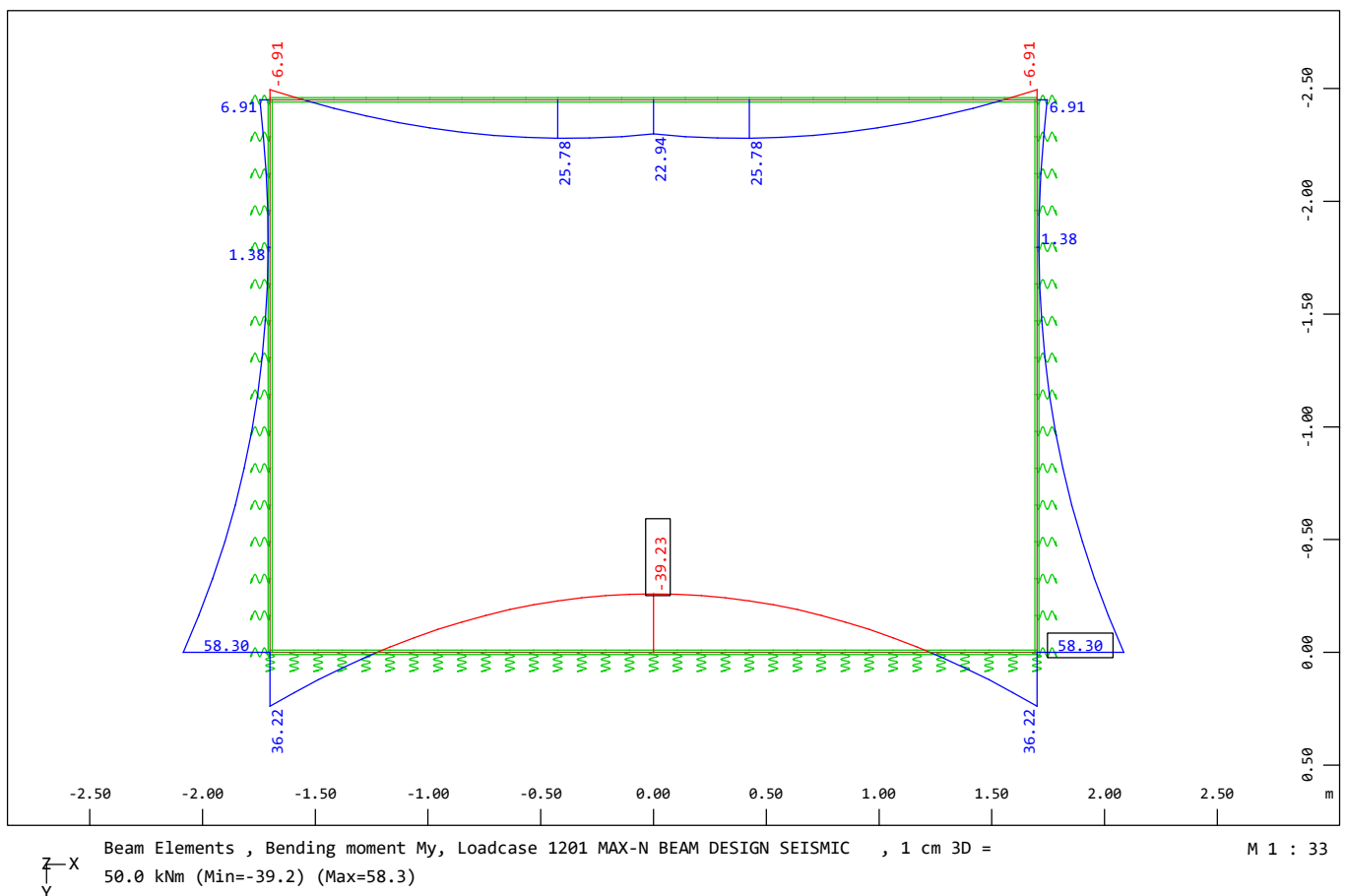
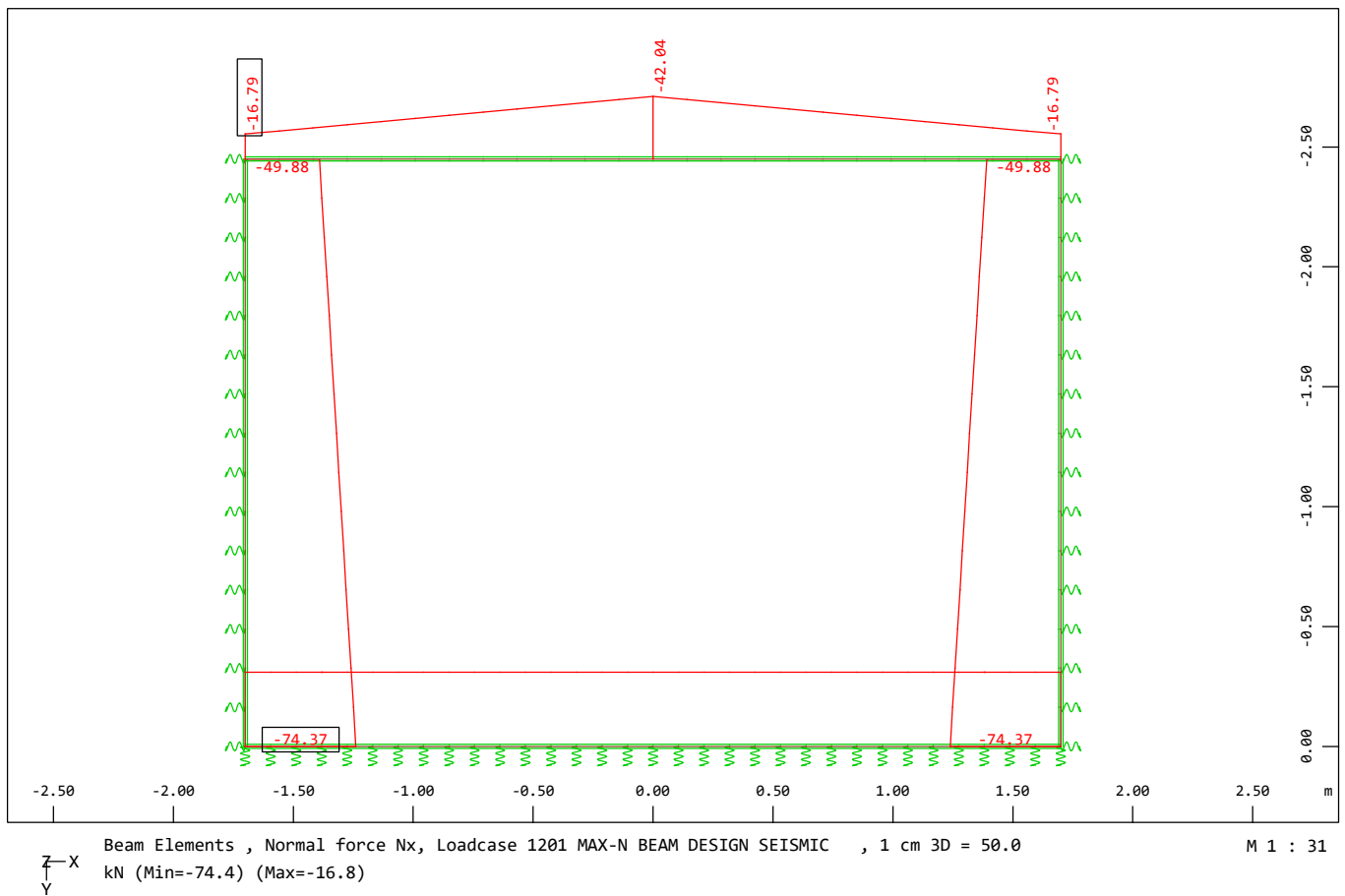
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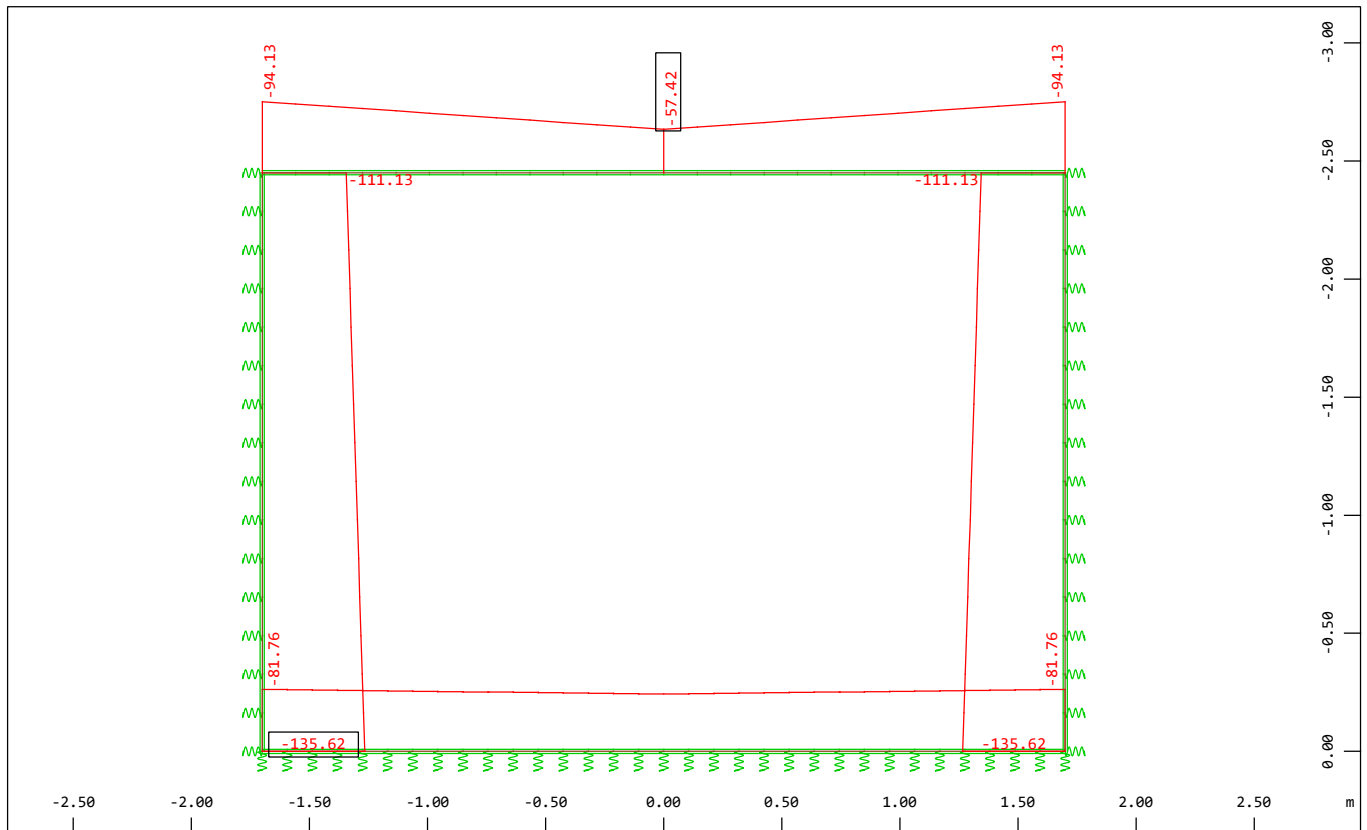
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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



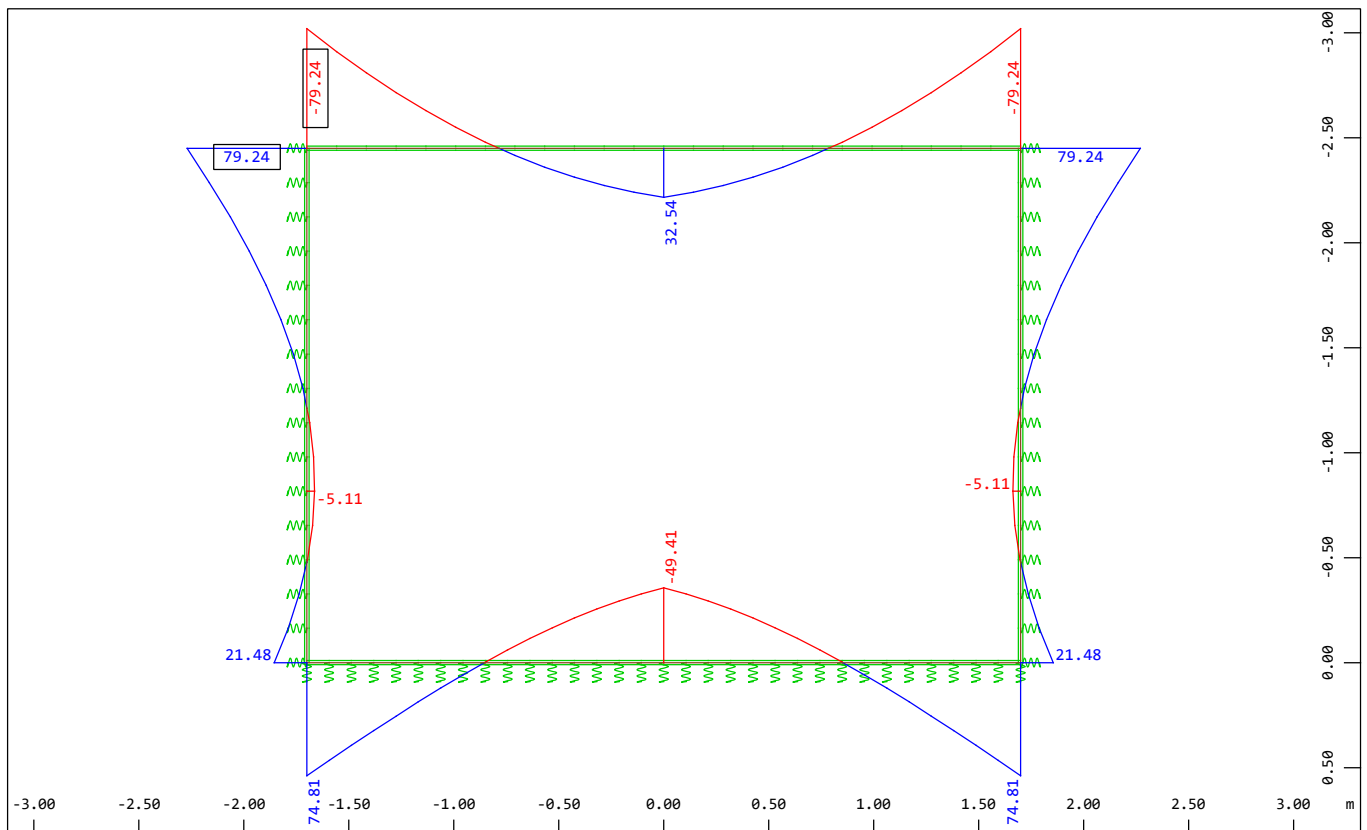
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- ΑΓΩΓΟΣ Α2 -
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ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ

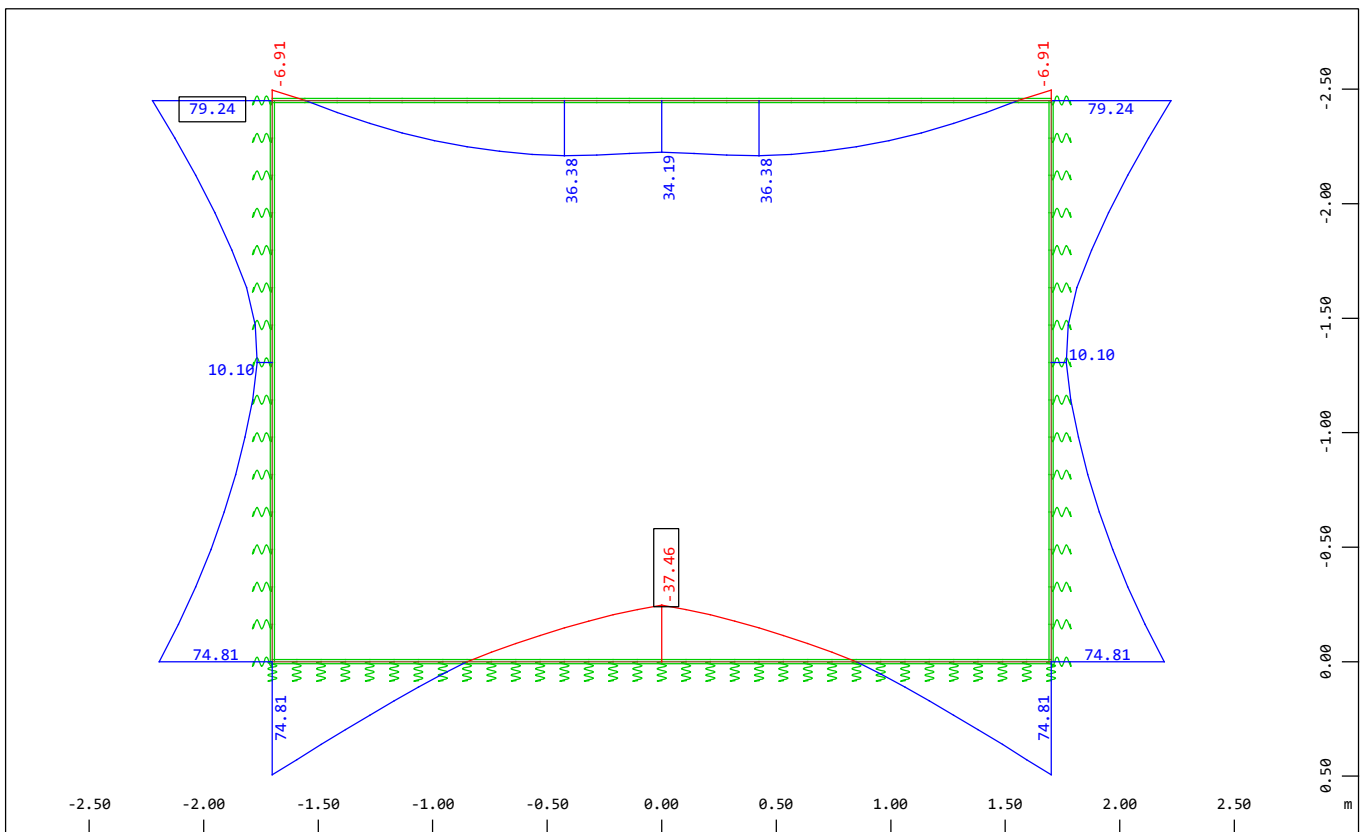
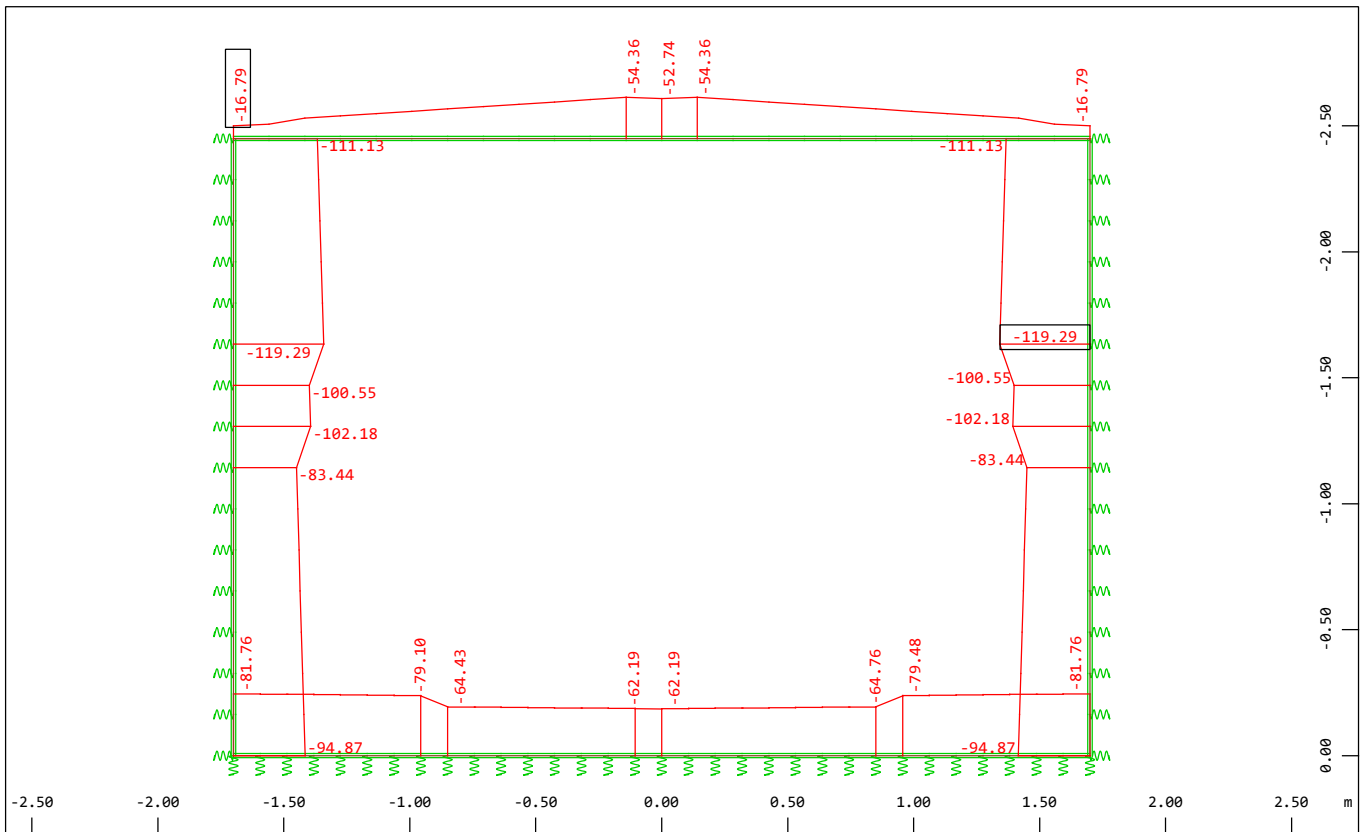


Beam Elements , Normal force Nx, Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = 100.0 kN (Min=-135.6) (Max=-57.4) M 1 : 32

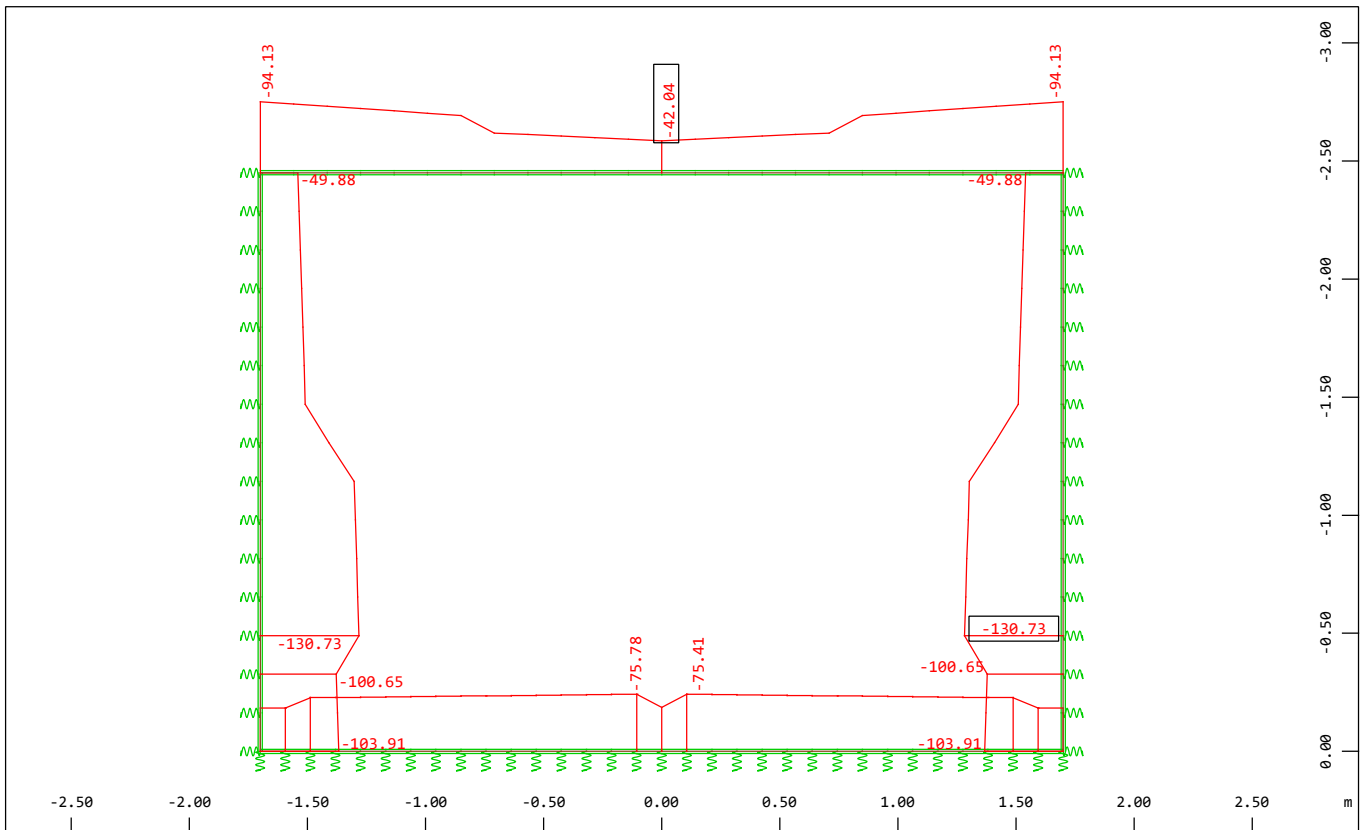


Beam Elements , Bending moment My, Loadcase 1202 MIN-N BEAM DESIGN SEISMIC , 1 cm 3D = 50.0 kNm (Min=-79.2) (Max=79.2) M 1 : 36

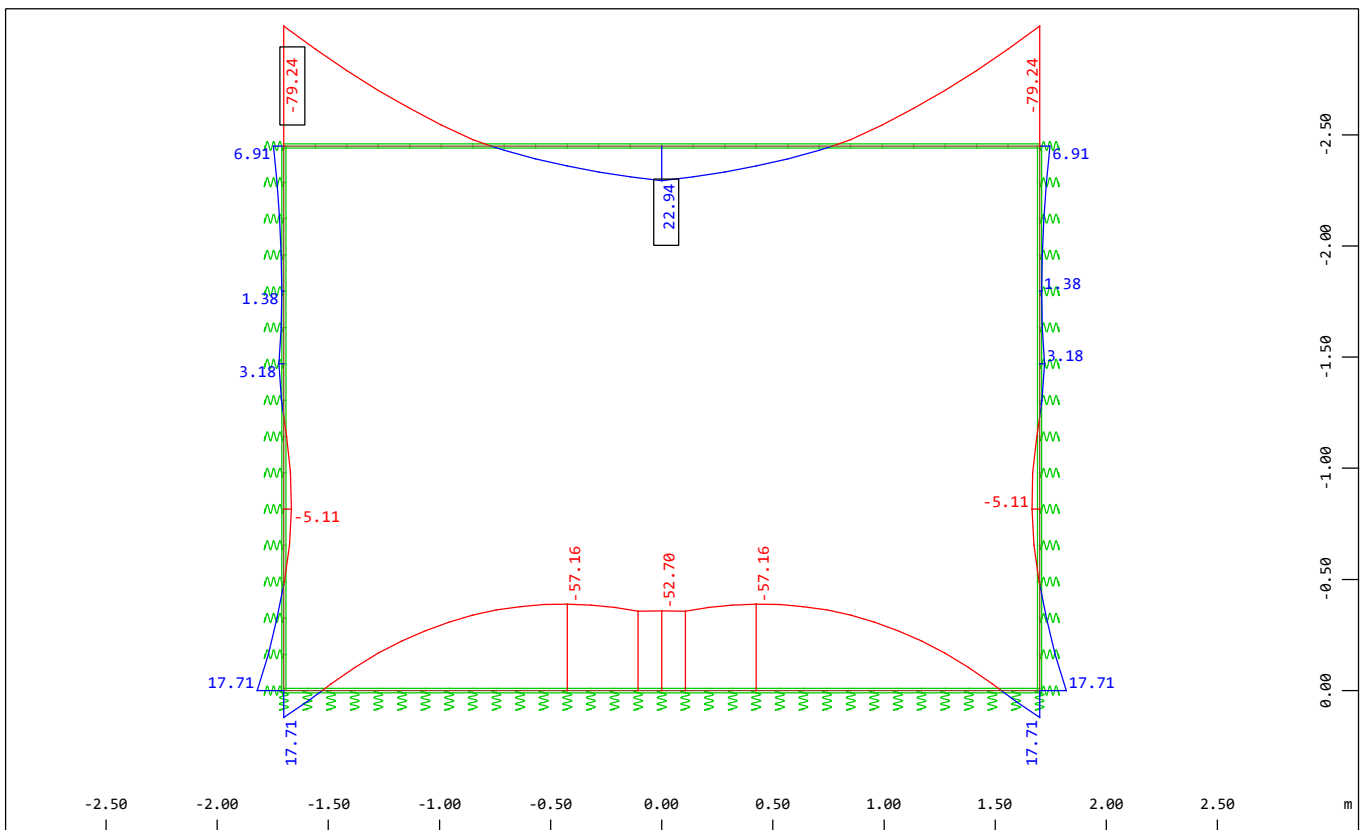
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- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ

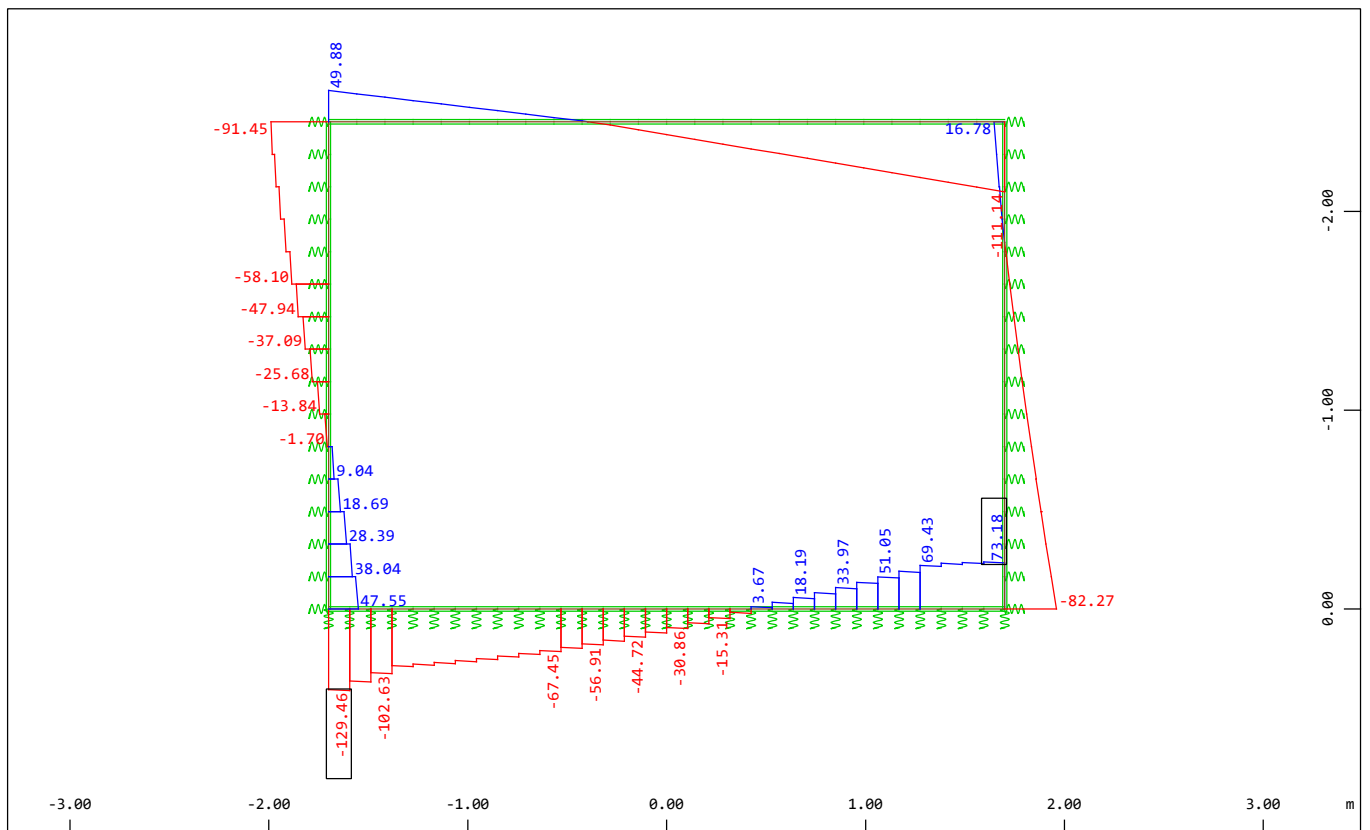
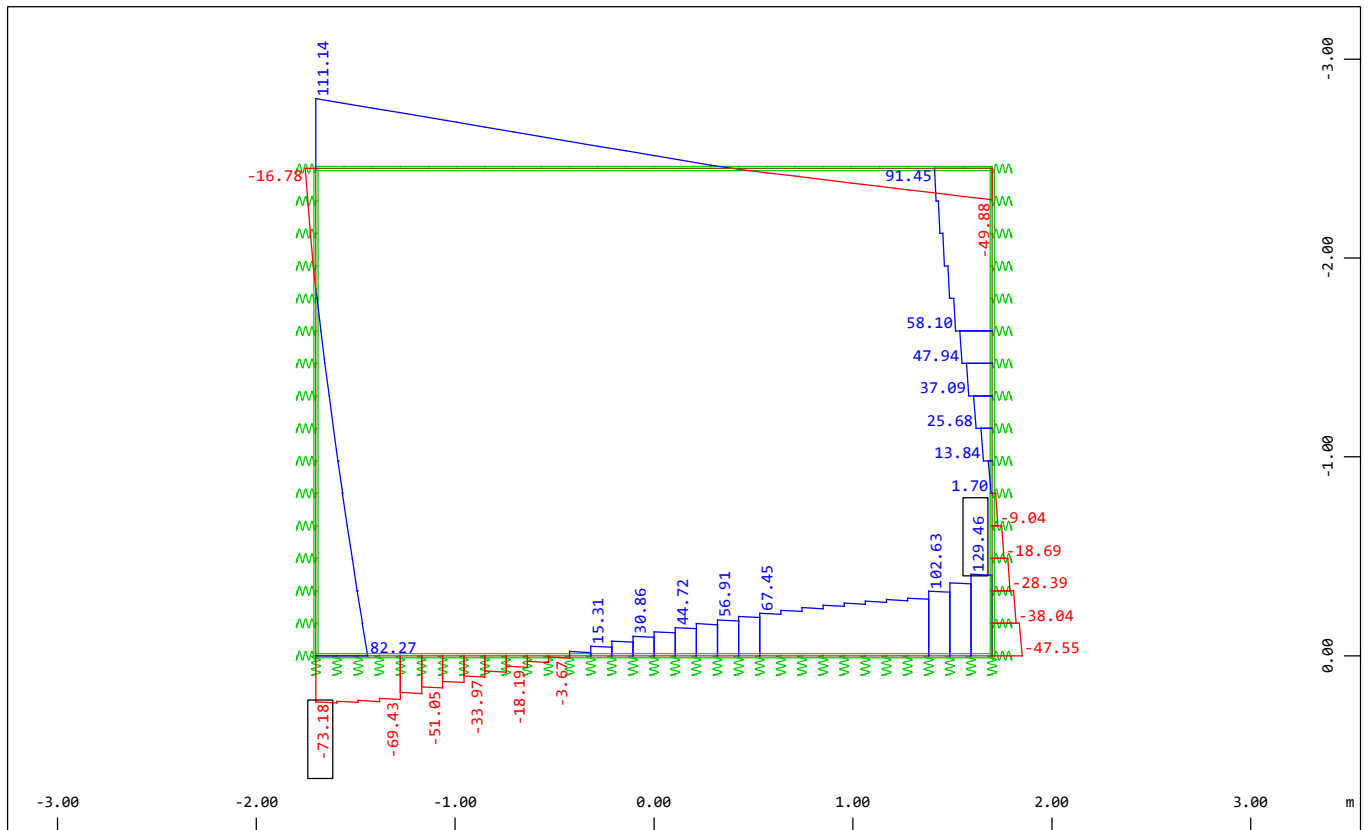


Beam Elements , Normal force Nx, Loadcase 1204 MIN-MY BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 32
100.0 kN (Min=-130.7) (Max=-42.0)



Beam Elements , Bending moment My, Loadcase 1204 MIN-MY BEAM DESIGN SEISMIC , 1 cm 3D = M 1 : 34
50.0 kNm (Min=-79.2) (Max=22.9)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΕΙΣΜΙΚΩΝ ΣΥΝΔΥΑΣΜΩΝ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 3
 Design combination
 Resulting Load Cases type ULS fundamental combination

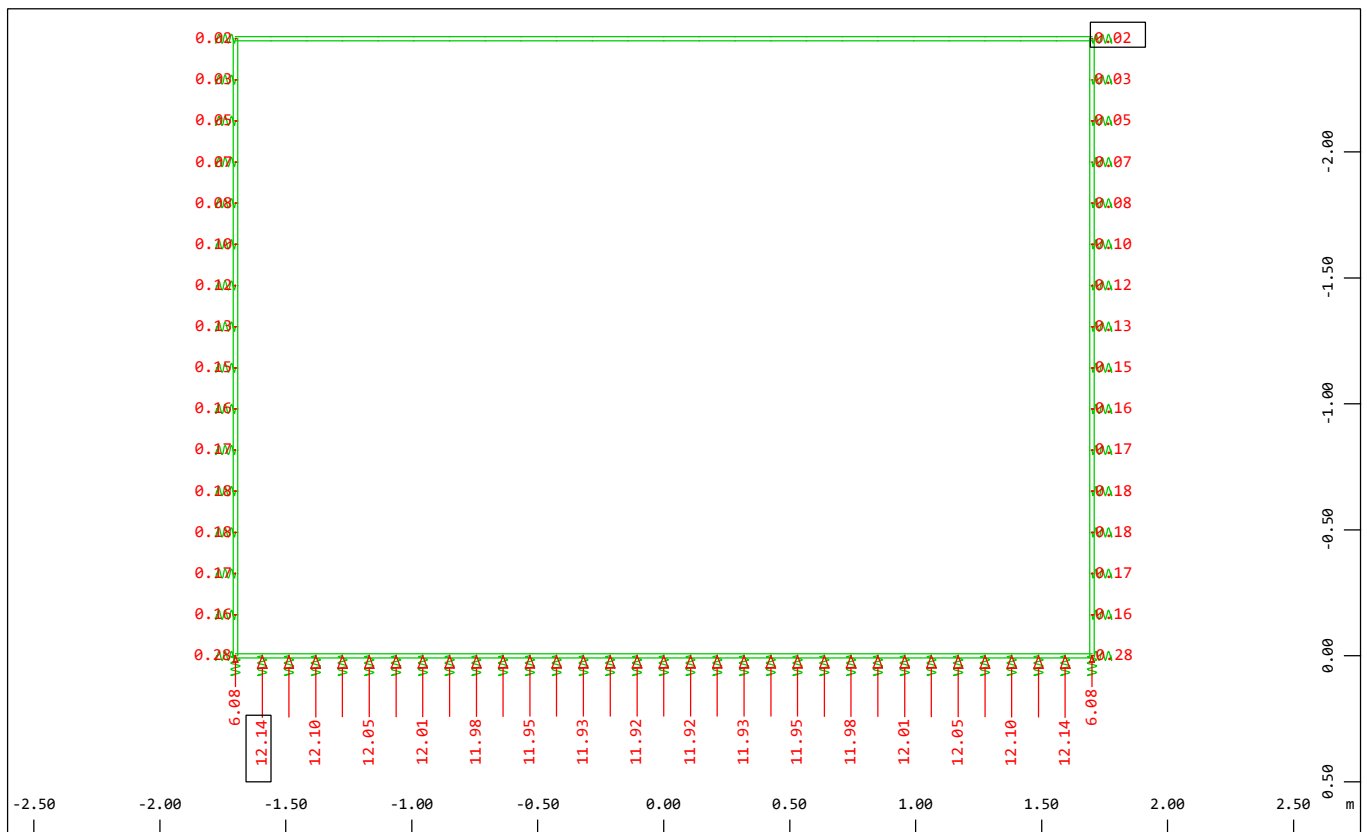
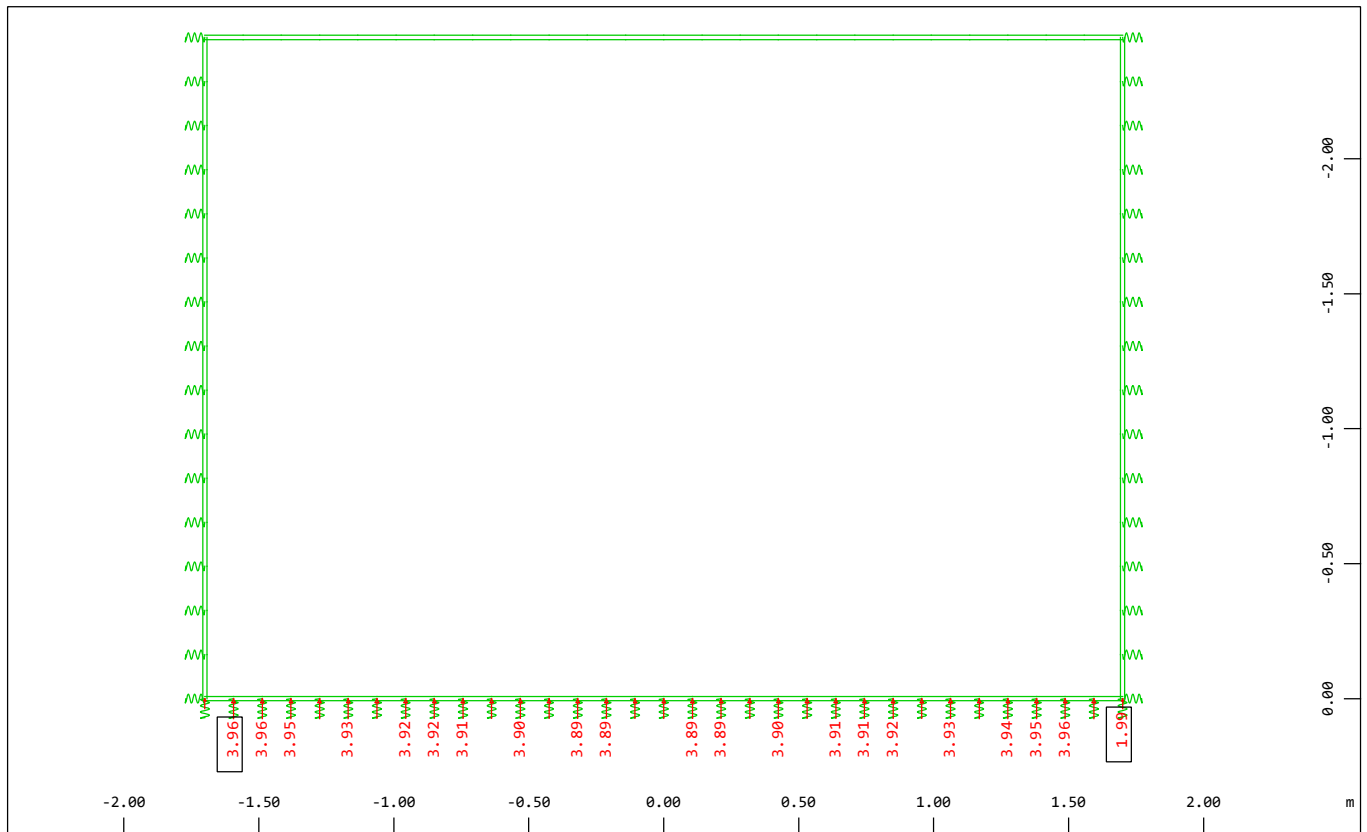
Load Case selection

Number	Fact	Type	Designation
400	1.00	AG1	G+C
411	1.00	AG1	G+C+R1
412	1.00	AG1	G+C+R1+W
413	1.00	AG1	G+C+R1+Q1
414	1.00	AG1	G+C+R1+W+Q1
415	1.00	AG1	G+C+R1+T
416	1.00	AG1	G+C+R1+T
417	1.00	AG1	G+C+R1+T
418	1.00	AG1	G+C+R1+T
421	1.00	AG1	G+C+R2
422	1.00	AG1	G+C+R2+W
423	1.00	AG1	G+C+R2+Q2
424	1.00	AG1	G+C+R2+W+Q2
425	1.00	AG1	G+C+R2+T
426	1.00	AG1	G+C+R2+T
427	1.00	AG1	G+C+R2+T
428	1.00	AG1	G+C+R2+T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

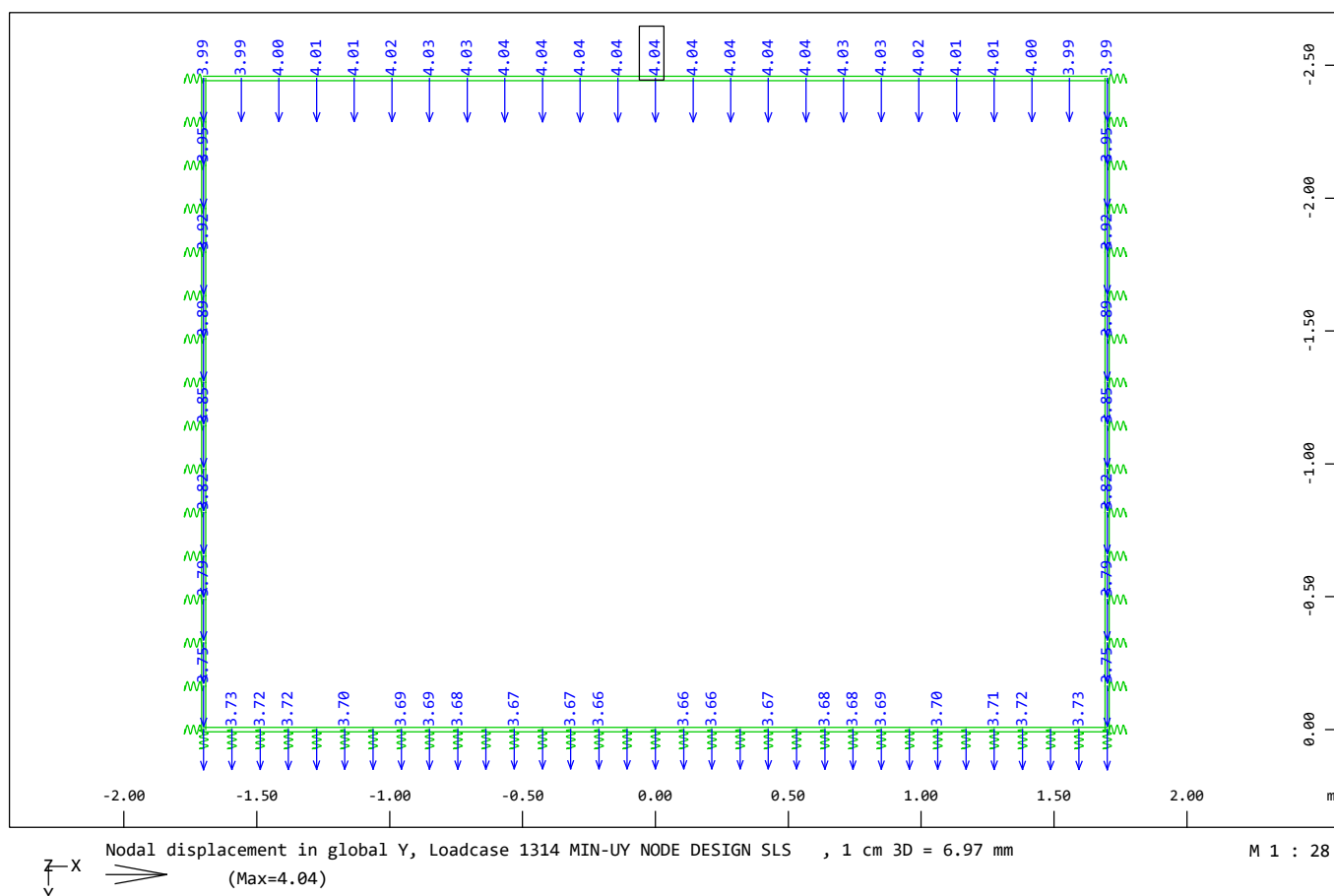
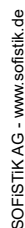
Number	Combination	Designation
1301	3	MAX-N BEAM DESIGN SLS
1302	3	MIN-N BEAM DESIGN SLS
1303	3	MAX-MY BEAM DESIGN SLS
1304	3	MIN-MY BEAM DESIGN SLS
1305	3	MAX-VZ BEAM DESIGN SLS
1306	3	MIN-VZ BEAM DESIGN SLS
1311	3	MAX-UX NODE DESIGN SLS
1312	3	MIN-UX NODE DESIGN SLS
1313	3	MAX-UY NODE DESIGN SLS
1314	3	MIN-UY NODE DESIGN SLS
1321	3	MAX-P SPRI DESIGN SLS
1322	3	MIN-P SPRI DESIGN SLS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

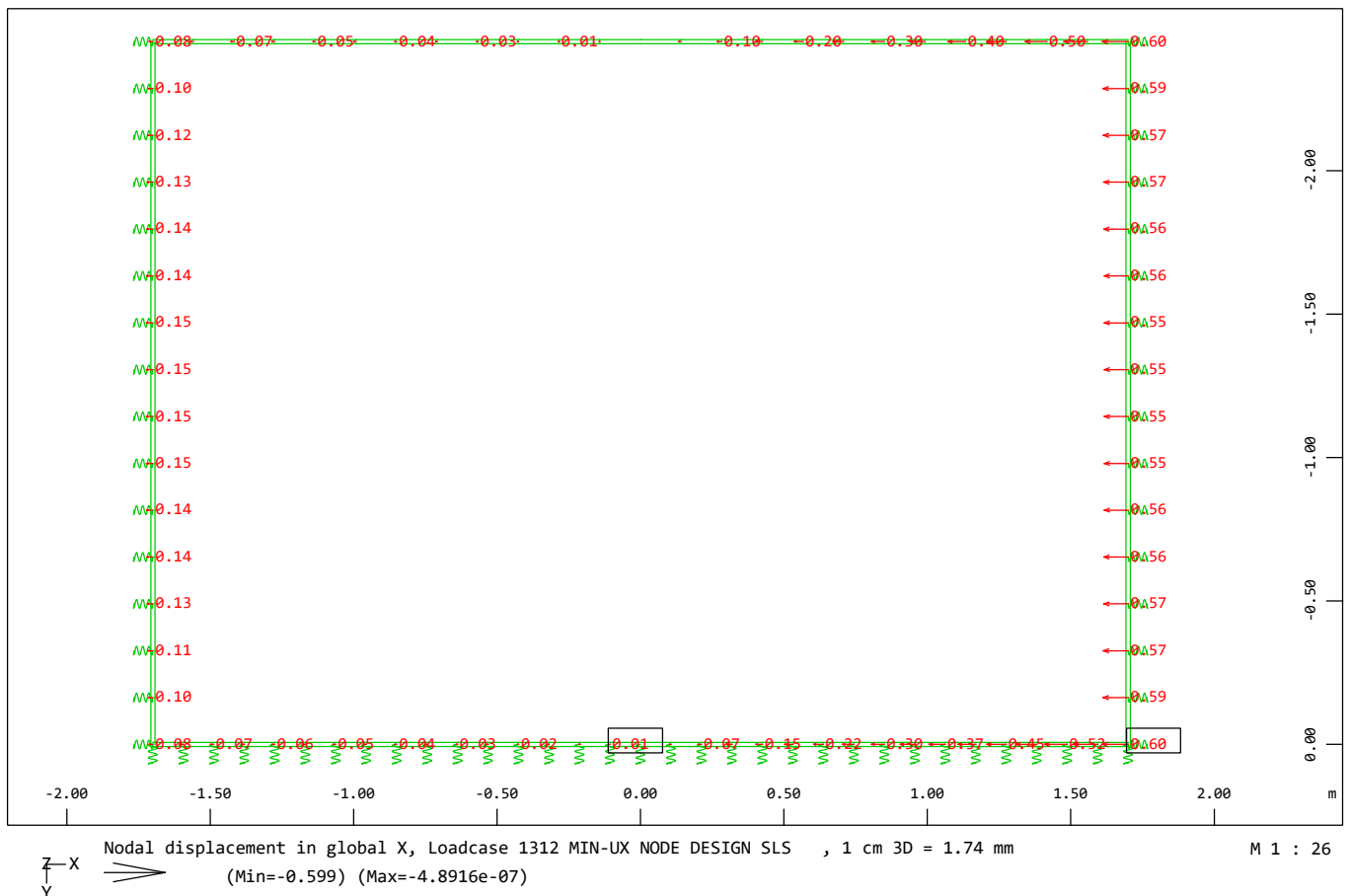
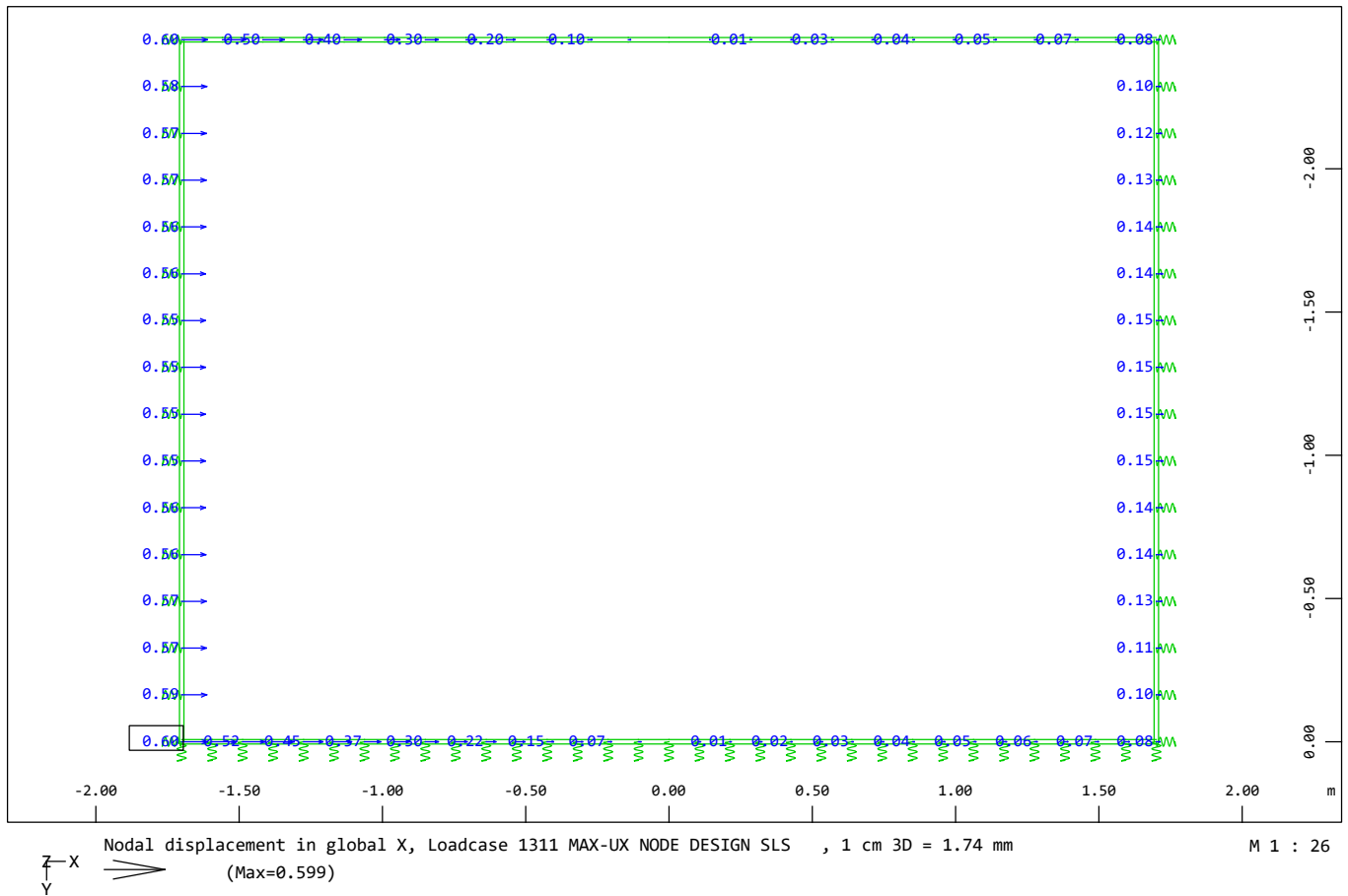


- ΑΓΩΓΟΣ Α2 -

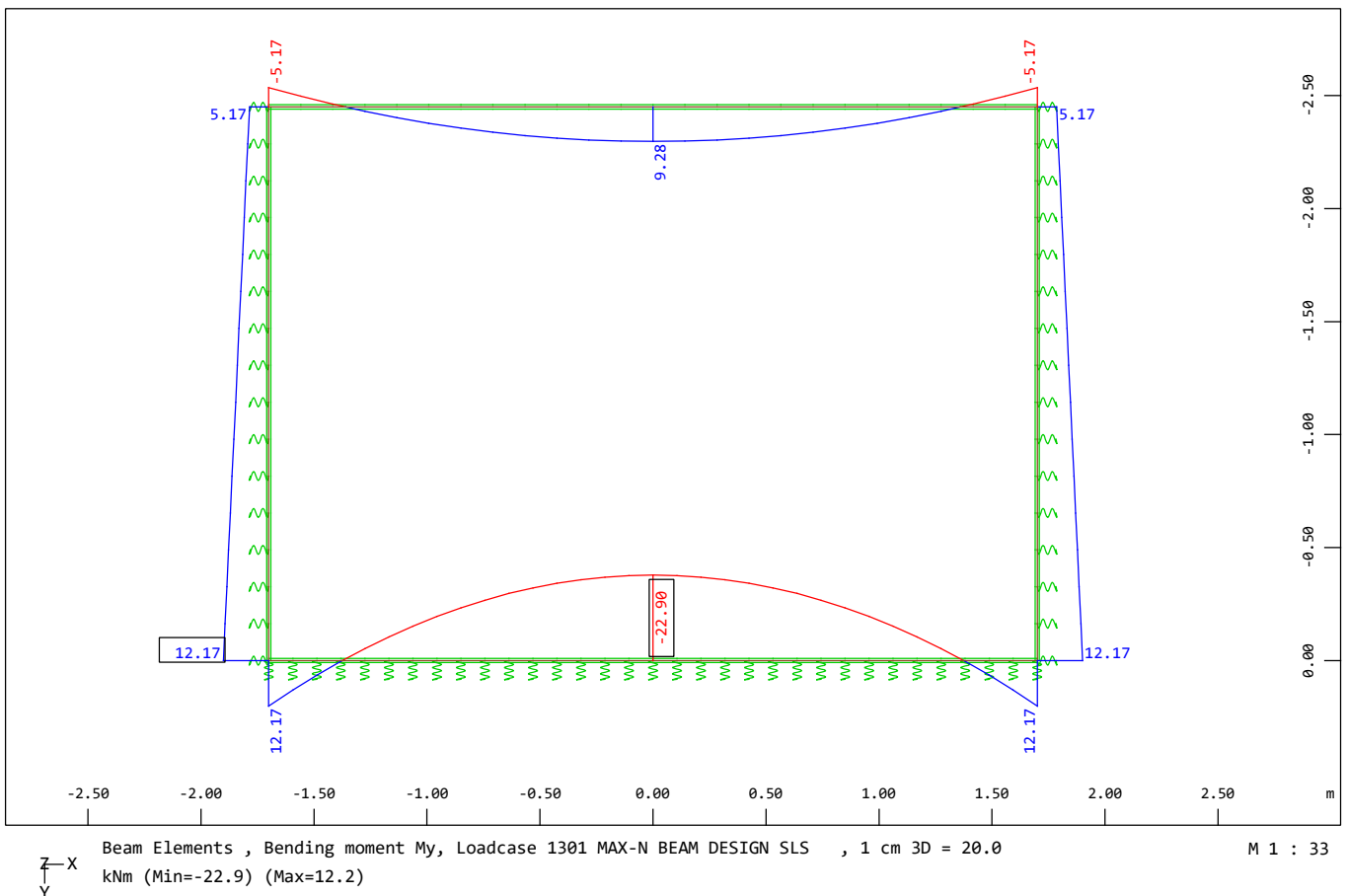
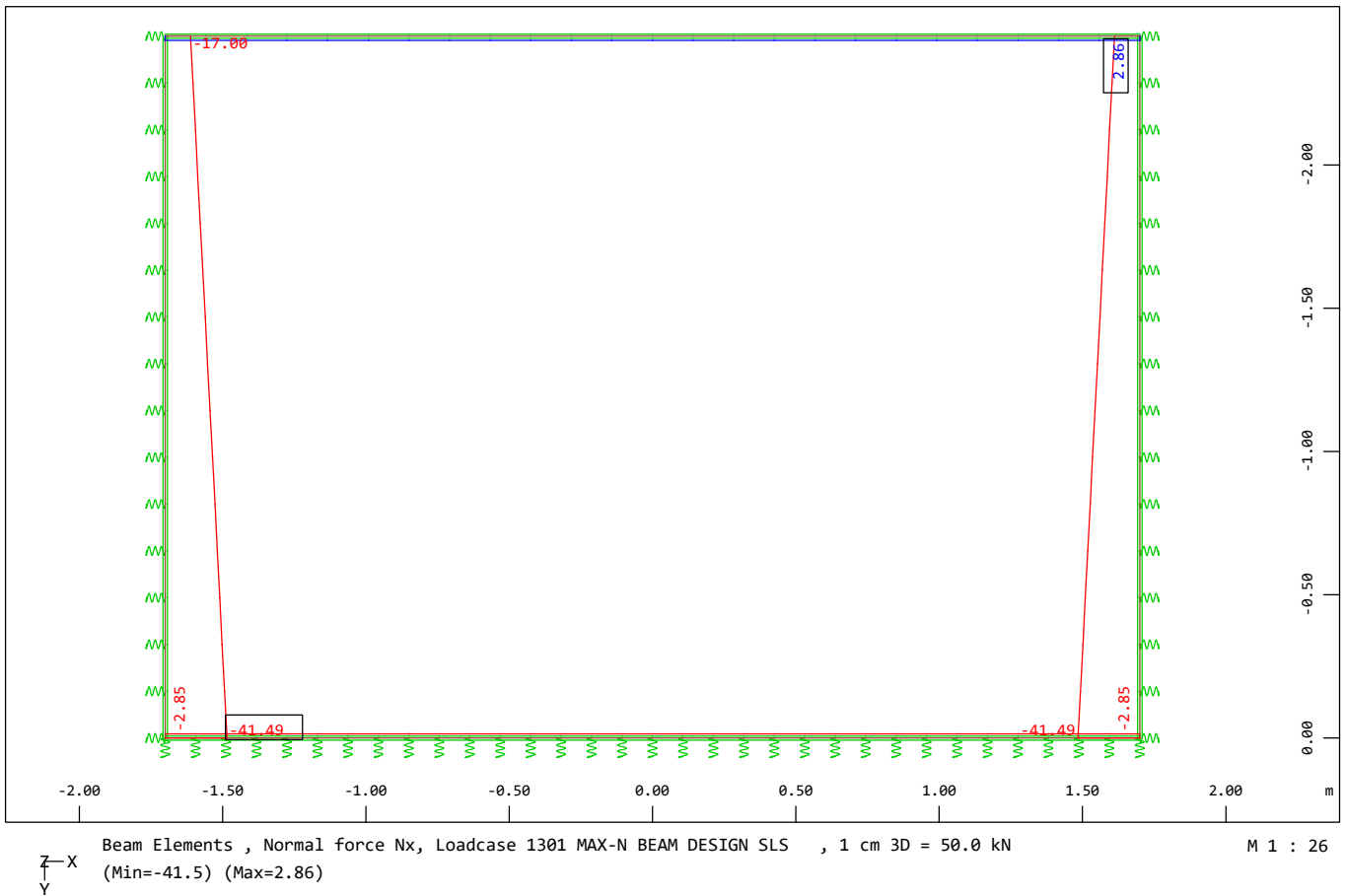
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



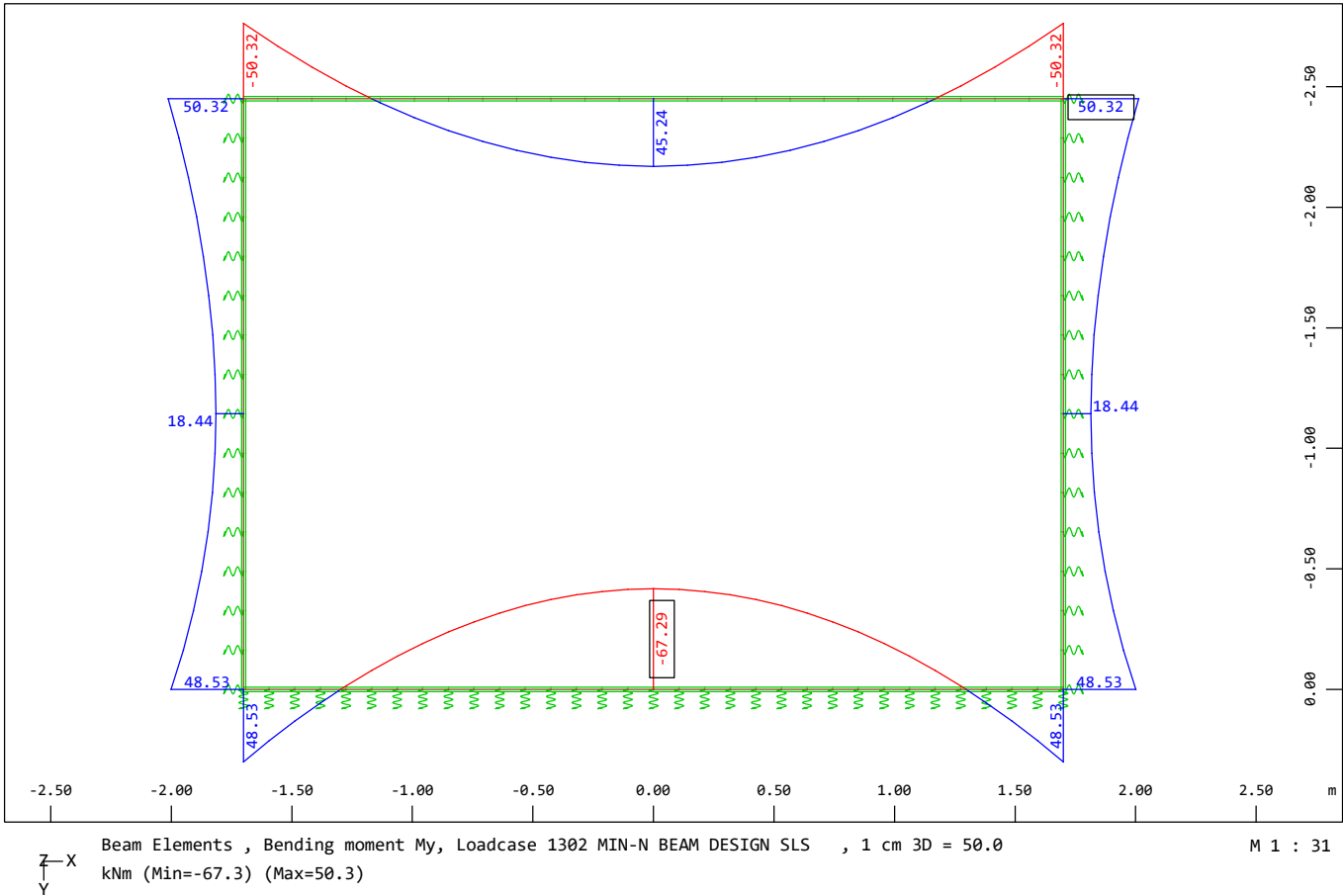
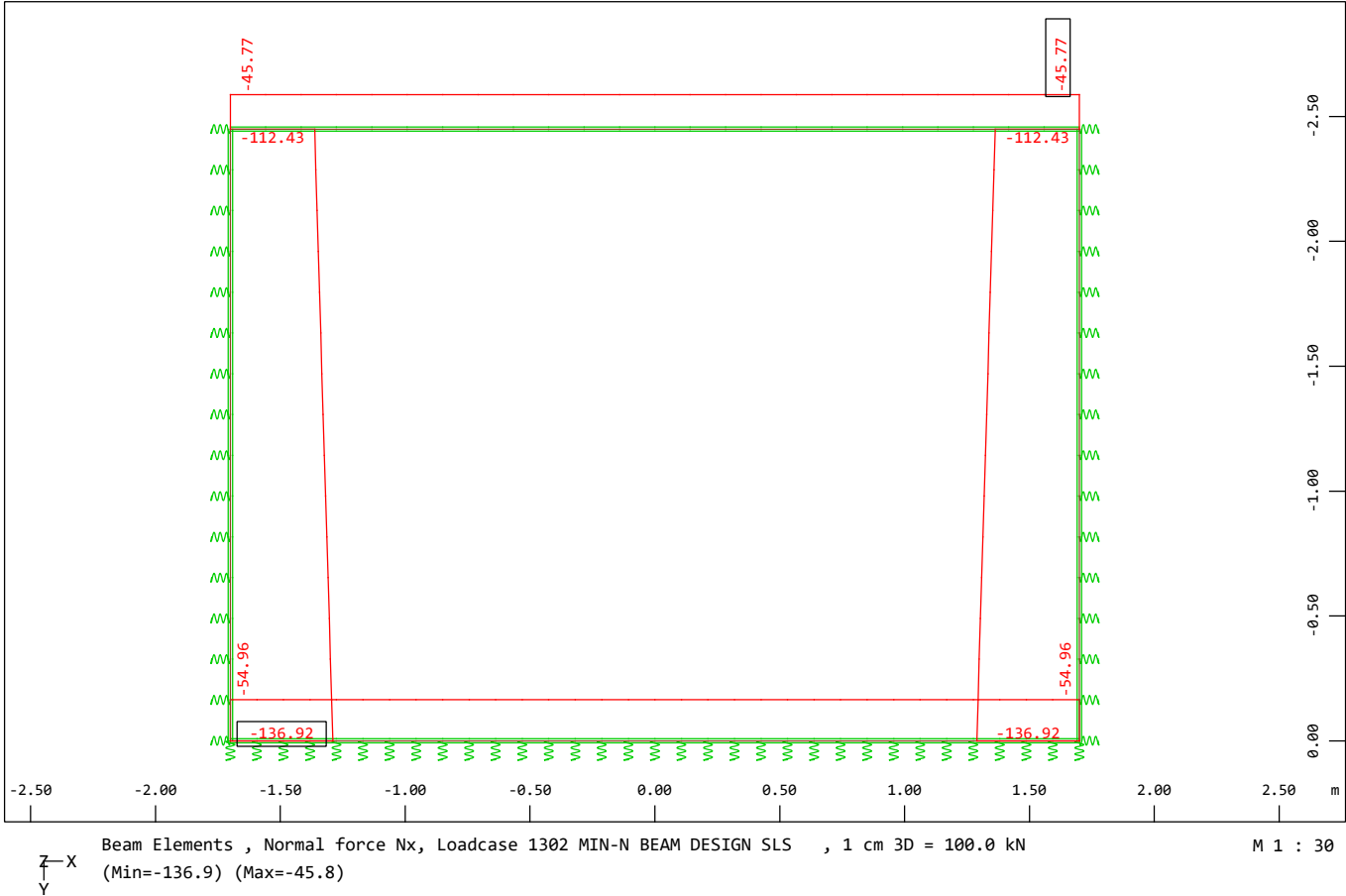
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



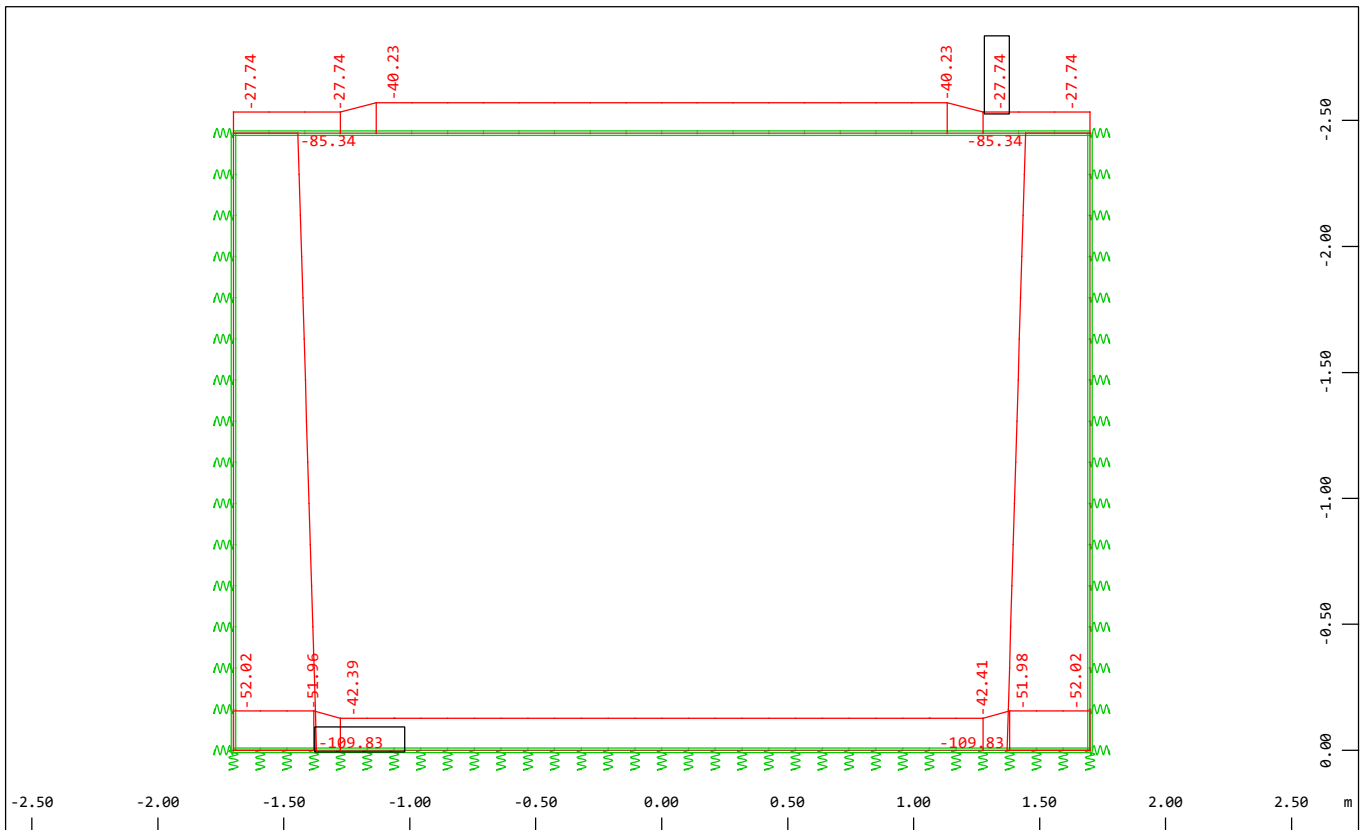
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



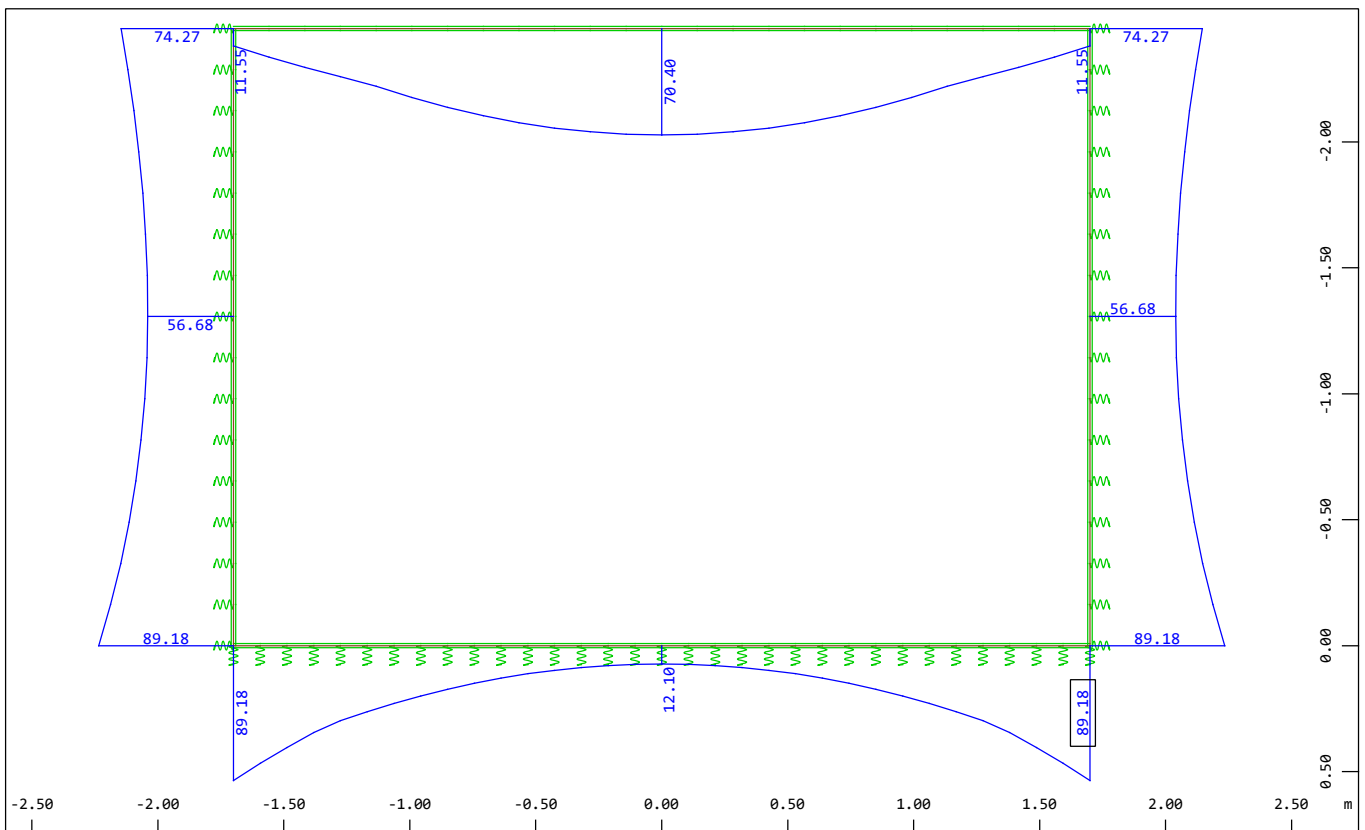
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ

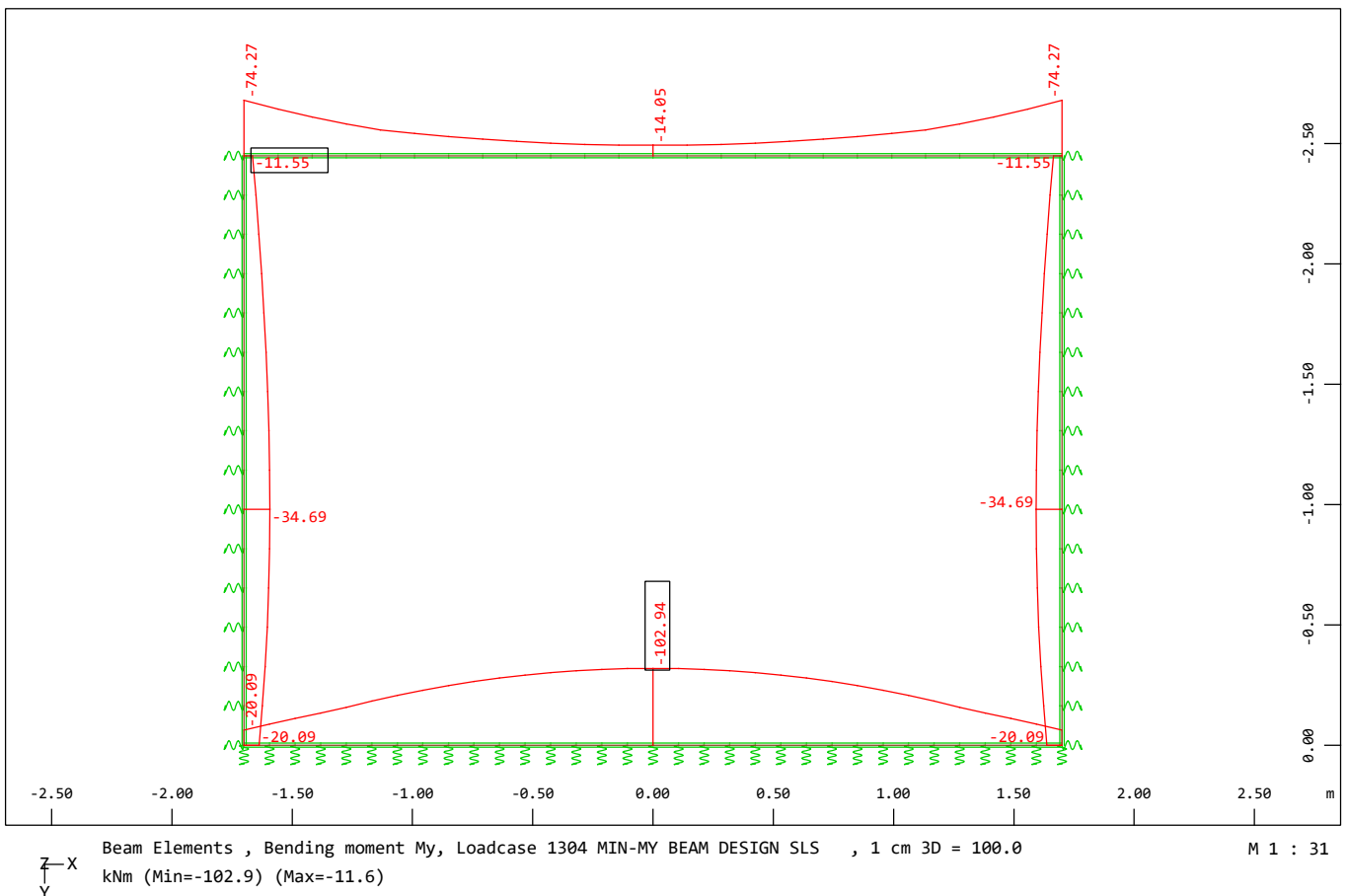
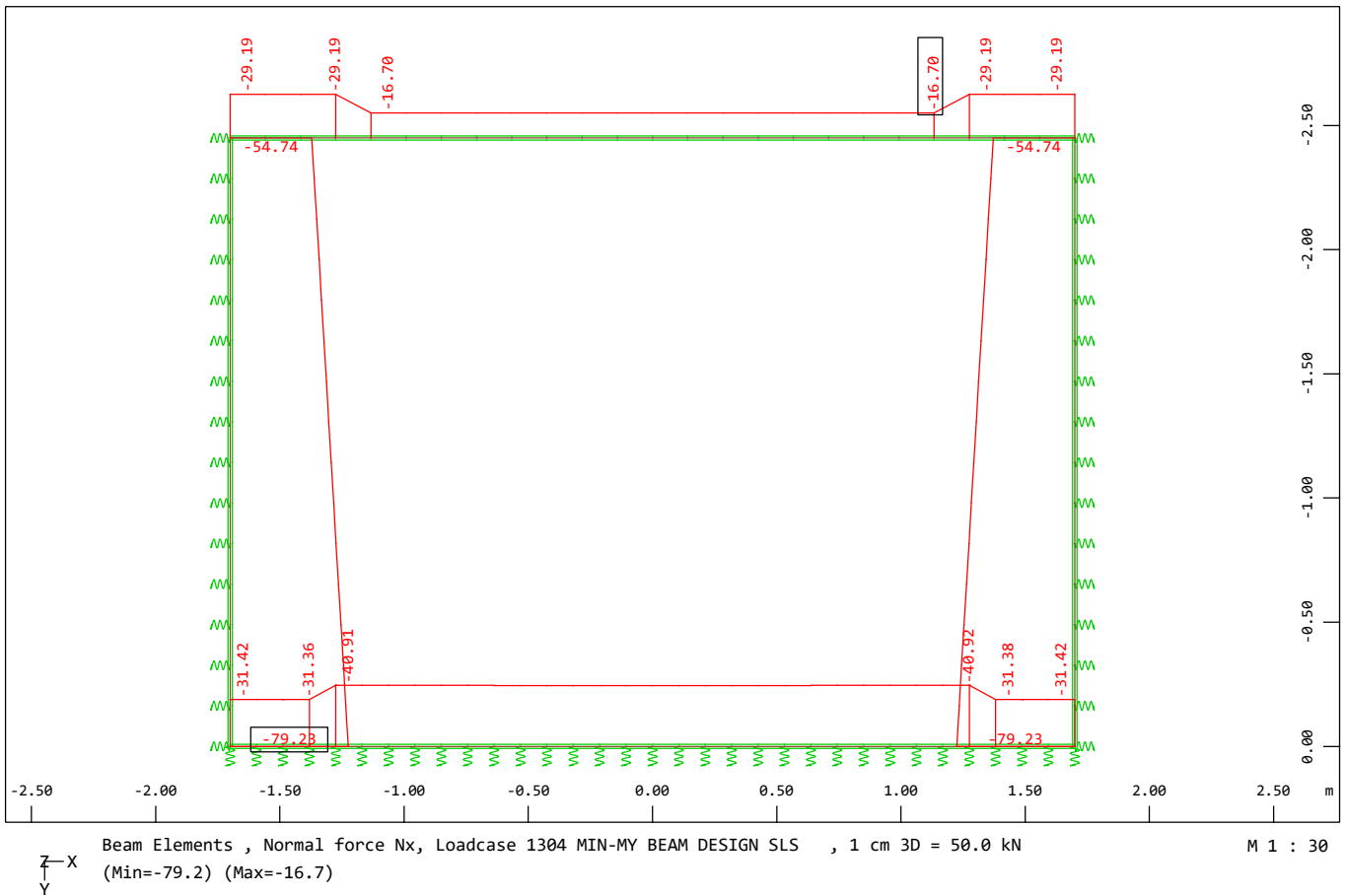


Beam Elements , Normal force Nx, Loadcase 1303 MAX-MY BEAM DESIGN SLS , 1 cm 3D = 100.0 M 1 : 30
kN (Min=-109.8) (Max=-27.7)



Beam Elements , Bending moment My, Loadcase 1303 MAX-MY BEAM DESIGN SLS , 1 cm 3D = 50.0 M 1 : 30
kNm (Max=89.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Materials

Mat	Classification
1	C 35/45 (EN 1992)
2	B 500 C (EN 1992)
11	ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures

Safety factors	$\gamma\text{-c,t}$	$\gamma\text{-c,c}$	$\gamma\text{-c,s}$	$\gamma\text{-s,s}$	$\gamma\text{-s,p}$	$\gamma\text{-s}$	Uniaxial bending
Strain limits	$\epsilon\text{-c1}$	$\epsilon\text{-c2}$	$\epsilon\text{-s1}$	$\epsilon\text{-s2}$	$\epsilon\text{-z1}$	$\epsilon\text{-z2}$	CTRL-options
	1.50	1.50	1.50	1.15	1.15	1.00	
	-3.50	-2.00 ¹	$\delta = 1.00^2$	45.00	-3.50	20.00	PIIA = 7

¹ Strain limits will be adopted to active stress strain definitions of material

² Value is obtained from maximum height of compression zone based on the redistribution grade δ (EN 1992-1-1, 5.5)

$\gamma\text{-c,t}$	global safety factor for concrete in bending	$\gamma\text{-s,p}$	global safety factor for active reinforcements
$\gamma\text{-c,c}$	global safety factor for concrete in compression	$\gamma\text{-s}$	global safety factor for structural steel
$\gamma\text{-c,s}$	global safety factor for concrete in shear	$\epsilon\text{-c1}$	strain limit for compression of concrete
$\gamma\text{-s,s}$	global safety factor for passive reinforcements	$\epsilon\text{-c2}$	strain limit for centric compression of concrete
$\epsilon\text{-s1}$	strain limit for a selected x/d ratio triggering symmetric reinforcements		
$\epsilon\text{-s2}$	strain limit for tension respective hardening of reinforcements		
$\epsilon\text{-z1}$	incremental strain limit for tendons in compression		
$\epsilon\text{-z2}$	incremental strain limit for tendons in tension		

Parameters for reinforcements

Minimum reinforcement for beams	Minimum reinforcement for columns	Compressive Member Limits e/h	Compressive Member Limits N/Np1	Minimum reinforcement of the required section	Maximum reinforcements
0.13 [o/o]	0.20 [o/o]	3.50 ¹	0.0010 ¹	0.00 [o/o]	0.10*Ned/fyd
¹ A beam is taken as compressive member if the eccentricity e/h is less and the compressive force is larger than these limits					

Tensile forces in the longitudinal reinforcements due to shear are NOT accounted for.
Material of sections uses Ultimate Limit strain-stress law with individual safety factors
Material of reinforcements uses Ultimate Limit strain-stress law with individual safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.500	-23.33	-2.00	0.00	0.00	$f_{c,t} = 0.00$	
2	0	1.150	-500.00	-75.00	500.00	75.00		
11	0	1.500	-13.33	-2.00	0.00	0.00	$f_{c,t} = 0.00$	

Shear Design

Design for shear Eurocode EN 1992 (2004)

Mat	f-cd [MPa]	$\tau\text{-rd}$ [MPa]	$\sigma\text{-cv}$ [MPa]	$\sigma\text{-ct}$ [MPa]	$\sigma\text{-cv+t}$ [MPa]	f-yd [MPa]
1	23.33	0.12	12.04	12.04	12.04	
2						434.78
11	13.33	0.12	7.36	7.36	7.36	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

f-cd	design strength of concrete
τ-rd	design value of the shear capacity of the concrete
σ-cv	maximum allowable compressive stress for transverse shear
σ-ct	maximum allowable compressive stress for torsional shear
σ-cv+τ	maximum allowable compressive stress
f-yd	design strength of transverse reinforcements

Minimum shear factor or tan of inclination of compressive struts 0.40 / 1.00
 Tolerance for exceeding maximum shear or principal compression stress 0.0200

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
102	0.000	1	0.22	11.18			5.59	5.59			
102	0.106	1	0.22	11.18			5.59	5.59			
103	0.000	1	0.22	11.18			5.59	5.59			
103	0.106	1	0.22	11.18			5.59	5.59			
104	0.000	1	0.22	11.18			5.59	5.59			
104	0.106	1	0.22	11.18			5.59	5.59			
105	0.000	1	0.22	11.18			5.59	5.59			
105	0.106	1	0.22	11.18			5.59	5.59			
106	0.000	1	0.22	11.18			5.59	5.59			
106	0.106	1	0.22	11.18			5.59	5.59			
107	0.000	1	0.22	11.18			5.59	5.59			
107	0.106	1	0.22	11.18			5.59	5.59			
108	0.000	1	0.22	11.18			5.59	5.59			
108	0.106	1	0.23	11.44			5.59	5.85			
109	0.000	1	0.23	11.44			5.59	5.85			
109	0.106	1	0.24	11.88			5.59	6.29			
110	0.000	1	0.24	11.88			5.59	6.29			
110	0.106	1	0.25	12.25			5.59	6.66			
111	0.000	1	0.25	12.25			5.59	6.66			
111	0.106	1	0.25	12.57			5.59	6.98			
112	0.000	1	0.25	12.57			5.59	6.98			
112	0.106	1	0.26	12.83			5.59	7.24			
113	0.000	1	0.26	12.83			5.59	7.24			
113	0.106	1	0.26	13.04			5.59	7.45			
114	0.000	1	0.26	13.04			5.59	7.45			
114	0.106	1	0.26	13.18			5.59	7.59			
115	0.000	1	0.26	13.18			5.59	7.59			
115	0.106	1	0.27	13.27			5.59	7.68			
116	0.000	1	0.27	13.27			5.59	7.68			
116	0.106	1	0.27	13.30			5.59	7.71			
117	0.000	1	0.27	13.30			5.59	7.71			
117	0.106	1	0.27	13.27			5.59	7.68			
118	0.000	1	0.27	13.27			5.59	7.68			
118	0.106	1	0.26	13.18			5.59	7.59			
119	0.000	1	0.26	13.18			5.59	7.59			
119	0.106	1	0.26	13.04			5.59	7.45			
120	0.000	1	0.26	13.04			5.59	7.45			
120	0.106	1	0.26	12.83			5.59	7.24			
121	0.000	1	0.26	12.83			5.59	7.24			
121	0.106	1	0.25	12.57			5.59	6.98			
122	0.000	1	0.25	12.57			5.59	6.98			
122	0.106	1	0.25	12.25			5.59	6.66			
123	0.000	1	0.25	12.25			5.59	6.66			
123	0.106	1	0.24	11.88			5.59	6.29			
124	0.000	1	0.24	11.88			5.59	6.29			
124	0.106	1	0.23	11.44			5.59	5.85			
125	0.000	1	0.23	11.44			5.59	5.85			
125	0.106	1	0.22	11.18			5.59	5.59			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
126	0.000	1	0.22	11.18			5.59	5.59			
126	0.106	1	0.22	11.18			5.59	5.59			
127	0.000	1	0.22	11.18			5.59	5.59			
127	0.106	1	0.22	11.18			5.59	5.59			
128	0.000	1	0.22	11.18			5.59	5.59			
128	0.106	1	0.22	11.18			5.59	5.59			
129	0.000	1	0.22	11.18			5.59	5.59			
129	0.106	1	0.22	11.18			5.59	5.59			
130	0.000	1	0.22	11.18			5.59	5.59			
130	0.106	1	0.22	11.18			5.59	5.59			
131	0.000	1	0.22	11.18			5.59	5.59			
131	0.106	1	0.22	11.18			5.59	5.59			
202	0.000	2	0.24	9.69			5.40	4.29			
202	0.163	2	0.23	9.26			4.97	4.29			
203	0.000	2	0.23	9.26			4.97	4.29			
203	0.163	2	0.22	8.96			4.67	4.29			
204	0.000	2	0.22	8.96			4.67	4.29			
204	0.163	2	0.22	8.72			4.43	4.29			
205	0.000	2	0.22	8.72			4.43	4.29			
205	0.163	2	0.22	8.61			4.32	4.29			
206	0.000	2	0.22	8.61			4.32	4.29			
206	0.163	2	0.21	8.58			4.29	4.29			
207	0.000	2	0.21	8.58			4.29	4.29			
207	0.163	2	0.22	8.62			4.33	4.29			
208	0.000	2	0.22	8.62			4.33	4.29			
208	0.163	2	0.42	16.87			12.58	4.29			
209	0.000	2	0.42	16.87			12.58	4.29			
209	0.163	2	0.22	8.81			4.52	4.29			
210	0.000	2	0.22	8.81			4.52	4.29			
210	0.163	2	0.22	8.93			4.64	4.29			
211	0.000	2	0.22	8.93			4.64	4.29			
211	0.163	2	0.23	9.09			4.80	4.29			
212	0.000	2	0.23	9.09			4.80	4.29			
212	0.163	2	0.23	9.36			5.07	4.29			
213	0.000	2	0.23	9.36			5.07	4.29			
213	0.163	2	0.24	9.74			5.45	4.29			
214	0.000	2	0.24	9.74			5.45	4.29			
214	0.163	2	0.26	10.35			6.06	4.29			
302	0.000	2	0.26	10.35			6.06	4.29			
302	0.163	2	0.24	9.74			5.45	4.29			
303	0.000	2	0.24	9.74			5.45	4.29			
303	0.163	2	0.23	9.36			5.07	4.29			
304	0.000	2	0.23	9.36			5.07	4.29			
304	0.163	2	0.23	9.09			4.80	4.29			
305	0.000	2	0.23	9.09			4.80	4.29			
305	0.163	2	0.22	8.93			4.64	4.29			
306	0.000	2	0.22	8.93			4.64	4.29			
306	0.163	2	0.22	8.81			4.52	4.29			
307	0.000	2	0.22	8.81			4.52	4.29			
307	0.163	2	0.42	16.87			12.58	4.29			
308	0.000	2	0.42	16.87			12.58	4.29			
308	0.163	2	0.22	8.62			4.33	4.29			
309	0.000	2	0.22	8.62			4.33	4.29			
309	0.163	2	0.21	8.58			4.29	4.29			
310	0.000	2	0.21	8.58			4.29	4.29			
310	0.163	2	0.22	8.61			4.32	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm2]	vm [m]	Asl-0 [cm2]	Asl-1 [cm2]	Asl-2 [cm2]	Asl-3 [cm2]	Asl-4 [cm2]	Asl-5 [cm2]
311	0.000	2	0.22	8.61			4.32	4.29			
311	0.163	2	0.22	8.72			4.43	4.29			
312	0.000	2	0.22	8.72			4.43	4.29			
312	0.163	2	0.22	8.96			4.67	4.29			
313	0.000	2	0.22	8.96			4.67	4.29			
313	0.163	2	0.23	9.26			4.97	4.29			
314	0.000	2	0.23	9.26			4.97	4.29			
314	0.163	2	0.24	9.69			5.40	4.29			
402	0.000	3	0.25	10.07			4.29	5.78			
402	0.142	3	0.22	8.92			4.29	4.63			
403	0.000	3	0.22	8.92			4.29	4.63			
403	0.142	3	0.21	8.58			4.29	4.29			
404	0.000	3	0.21	8.58			4.29	4.29			
404	0.142	3	0.21	8.58			4.29	4.29			
405	0.000	3	0.21	8.58			4.29	4.29			
405	0.142	3	0.21	8.58			4.29	4.29			
406	0.000	3	0.21	8.58			4.29	4.29			
406	0.142	3	0.22	8.99			4.70	4.29			
407	0.000	3	0.22	8.99			4.70	4.29			
407	0.142	3	0.24	9.59			5.30	4.29			
408	0.000	3	0.24	9.59			5.30	4.29			
408	0.142	3	0.25	10.09			5.80	4.29			
409	0.000	3	0.25	10.09			5.80	4.29			
409	0.142	3	0.26	10.48			6.19	4.29			
410	0.000	3	0.26	10.48			6.19	4.29			
410	0.142	3	0.27	10.75			6.46	4.29			
411	0.000	3	0.27	10.75			6.46	4.29			
411	0.142	3	0.27	10.92			6.63	4.29			
412	0.000	3	0.27	10.92			6.63	4.29			
412	0.142	3	0.27	10.97			6.68	4.29			
413	0.000	3	0.27	10.97			6.68	4.29			
413	0.142	3	0.27	10.92			6.63	4.29			
414	0.000	3	0.27	10.92			6.63	4.29			
414	0.142	3	0.27	10.75			6.46	4.29			
415	0.000	3	0.27	10.75			6.46	4.29			
415	0.142	3	0.26	10.48			6.19	4.29			
416	0.000	3	0.26	10.48			6.19	4.29			
416	0.142	3	0.25	10.09			5.80	4.29			
417	0.000	3	0.25	10.09			5.80	4.29			
417	0.142	3	0.24	9.59			5.30	4.29			
418	0.000	3	0.24	9.59			5.30	4.29			
418	0.142	3	0.22	8.99			4.70	4.29			
419	0.000	3	0.22	8.99			4.70	4.29			
419	0.142	3	0.21	8.58			4.29	4.29			
420	0.000	3	0.21	8.58			4.29	4.29			
420	0.142	3	0.21	8.58			4.29	4.29			
421	0.000	3	0.21	8.58			4.29	4.29			
421	0.142	3	0.21	8.58			4.29	4.29			
422	0.000	3	0.21	8.58			4.29	4.29			
422	0.142	3	0.22	8.92			4.29	4.63			
423	0.000	3	0.22	8.92			4.29	4.63			
423	0.142	3	0.25	10.07			4.29	5.78			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

p	geometric part of reinforcements
Asl	total longitudinal reinforcement
vm	shift rule of longitudinal reinforcement (0.0 if already included by normal force)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.069	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Πυθμένα	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Section 2	0.000	0.000	0.047	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Τοίχοι	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Section 3	0.000	0.000	0.078	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Οροφής	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Total	0.000	0.000	0.078	0.000	0.000	0.000	0.000	0.000	-	-	1.000
	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
<div> <div>Nnormal force</div> <div>Vy,Vzshear force</div> <div>My,Mzbending</div> <div>Mtp,Mtstorsion (p)primary and (s)econdary</div> <div>Mbwarping moment</div> <div>Ncrflexural buckling</div> <div>SCLcross-section class</div> <div>$\sigma-x$longitud. compressive stress</div> <div>$\sigma+x$longitud. tensile stress</div> </div> <div> <div>τshear stress</div> <div>$\sigma-v$von Mises stress</div> <div>$\sigma-s$stress in reinforcements</div> <div>$\sigma-dyn$stress range</div> <div>As-llongitudinal reinforcements</div> <div>As-vtransverse reinforcements</div> <div>crackcrack width</div> <div>c/tstress dependant utilisation level (see AQB Manual 2.3.2)</div> <div>Totalmost unfavorable utilisation for all checks</div> </div>											

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Materials

Mat	Classification
1	C 35/45 (EN 1992)
2	B 500 C (EN 1992)
11	ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 2
Reinforcements superposed with existing Design case No. 1

Nonlinear Stresses

Parameters for Nonlinear Stresses

Iteration for all forces and moments
Interaction thin walled normal- and shearstress via Prandtl flow rule
Design against cracks according to EuroNorm EN 1992-1-1:2004 Concrete Structures
Limits for the effective zone h-min= 0.0 h-max= 800.0 [mm]
Design values of crack width 0.200 [mm]
Coefficient kt of load duration (EN 1992-1-1 Eq. 7.9) 0.40
Material of sections uses Serviceability strain-stress law without safety factors
Material of reinforcements uses Serviceability strain-stress law without safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.000	-43.00	-2.25	0.00	0.00	fc,t = 0.00	
2	0	1.000	-575.00	-75.00	575.00	75.00		0.80
11	0	1.000	-28.00	-1.97	0.00	0.00	fc,t = 0.00	

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Longitud. compressive stress	σ-x	-8.47		MPa		428	302	0.000
	Longitud. tensile stress	σ+x	0.00		MPa		428	212	0.163
2	Longitud. compressive stress	σ-x	-5.56		MPa		424	208	0.163
	Longitud. tensile stress	σ+x	176.42		MPa		428	302	0.000

Check for crack width passed with additional reinforcements✓

Stiffness is not saved in database

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
102	0.000	1	0.33	16.45			10.86	5.59			
102	0.106	1	0.31	15.65			9.69	5.96			
103	0.000	1	0.31	15.65			9.69	5.96			
103	0.106	1	0.32	15.97			8.65	7.33			
104	0.000	1	0.32	15.97			8.65	7.33			
104	0.106	1	0.32	15.99			7.85	8.14			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
105	0.000	1	0.32	15.99			7.85	8.14			
105	0.106	1	0.32	16.06			7.03	9.03			
106	0.000	1	0.32	16.06			7.03	9.03			
106	0.106	1	0.32	15.81			5.91	9.90			
107	0.000	1	0.32	15.81			5.91	9.90			
107	0.106	1	0.33	16.26			5.59	10.67			
108	0.000	1	0.33	16.26			5.59	10.67			
108	0.106	1	0.34	16.93			5.59	11.34			
109	0.000	1	0.34	16.93			5.59	11.34			
109	0.106	1	0.35	17.51			5.59	11.92			
110	0.000	1	0.35	17.51			5.59	11.92			
110	0.106	1	0.36	18.01			5.59	12.42			
111	0.000	1	0.36	18.01			5.59	12.42			
111	0.106	1	0.37	18.43			5.59	12.84			
112	0.000	1	0.37	18.43			5.59	12.84			
112	0.106	1	0.38	18.76			5.59	13.17			
113	0.000	1	0.38	18.76			5.59	13.17			
113	0.106	1	0.38	19.03			5.59	13.44			
114	0.000	1	0.38	19.03			5.59	13.44			
114	0.106	1	0.38	19.21			5.59	13.62			
115	0.000	1	0.38	19.21			5.59	13.62			
115	0.106	1	0.39	19.32			5.59	13.73			
116	0.000	1	0.39	19.32			5.59	13.73			
116	0.106	1	0.39	19.36			5.59	13.77			
117	0.000	1	0.39	19.36			5.59	13.77			
117	0.106	1	0.39	19.32			5.59	13.73			
118	0.000	1	0.39	19.32			5.59	13.73			
118	0.106	1	0.38	19.21			5.59	13.62			
119	0.000	1	0.38	19.21			5.59	13.62			
119	0.106	1	0.38	19.03			5.59	13.44			
120	0.000	1	0.38	19.03			5.59	13.44			
120	0.106	1	0.38	18.76			5.59	13.17			
121	0.000	1	0.38	18.76			5.59	13.17			
121	0.106	1	0.37	18.43			5.59	12.84			
122	0.000	1	0.37	18.43			5.59	12.84			
122	0.106	1	0.36	18.01			5.59	12.42			
123	0.000	1	0.36	18.01			5.59	12.42			
123	0.106	1	0.35	17.51			5.59	11.92			
124	0.000	1	0.35	17.51			5.59	11.92			
124	0.106	1	0.34	16.93			5.59	11.34			
125	0.000	1	0.34	16.93			5.59	11.34			
125	0.106	1	0.33	16.26			5.59	10.67			
126	0.000	1	0.33	16.26			5.59	10.67			
126	0.106	1	0.32	15.81			5.91	9.90			
127	0.000	1	0.32	15.81			5.91	9.90			
127	0.106	1	0.32	16.06			7.03	9.03			
128	0.000	1	0.32	16.06			7.03	9.03			
128	0.106	1	0.32	15.99			7.85	8.14			
129	0.000	1	0.32	15.99			7.85	8.14			
129	0.106	1	0.32	15.97			8.65	7.33			
130	0.000	1	0.32	15.97			8.65	7.33			
130	0.106	1	0.31	15.65			9.69	5.96			
131	0.000	1	0.31	15.65			9.69	5.96			
131	0.106	1	0.33	16.45			10.86	5.59			
202	0.000	2	0.37	14.87			10.58	4.29			
202	0.163	2	0.36	14.30			10.01	4.29			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
203	0.000	2	0.36	14.30			10.01	4.29			
203	0.163	2	0.35	13.81			9.52	4.29			
204	0.000	2	0.35	13.81			9.52	4.29			
204	0.163	2	0.34	13.40			9.11	4.29			
205	0.000	2	0.34	13.40			9.11	4.29			
205	0.163	2	0.33	13.02			8.73	4.29			
206	0.000	2	0.33	13.02			8.73	4.29			
206	0.163	2	0.32	12.73			8.44	4.29			
207	0.000	2	0.32	12.73			8.44	4.29			
207	0.163	2	0.32	12.94			8.38	4.56			
208	0.000	2	0.32	12.94			8.38	4.56			
208	0.163	2	0.43	17.21			12.58	4.63			
209	0.000	2	0.43	17.21			12.58	4.63			
209	0.163	2	0.34	13.44			8.73	4.71			
210	0.000	2	0.34	13.44			8.73	4.71			
210	0.163	2	0.34	13.61			9.04	4.57			
211	0.000	2	0.34	13.61			9.04	4.57			
211	0.163	2	0.34	13.77			9.48	4.29			
212	0.000	2	0.34	13.77			9.48	4.29			
212	0.163	2	0.36	14.35			10.06	4.29			
213	0.000	2	0.36	14.35			10.06	4.29			
213	0.163	2	0.38	15.06			10.77	4.29			
214	0.000	2	0.38	15.06			10.77	4.29			
214	0.163	2	0.40	15.92			11.63	4.29			
302	0.000	2	0.40	15.92			11.63	4.29			
302	0.163	2	0.38	15.06			10.77	4.29			
303	0.000	2	0.38	15.06			10.77	4.29			
303	0.163	2	0.36	14.35			10.06	4.29			
304	0.000	2	0.36	14.35			10.06	4.29			
304	0.163	2	0.34	13.77			9.48	4.29			
305	0.000	2	0.34	13.77			9.48	4.29			
305	0.163	2	0.34	13.61			9.04	4.57			
306	0.000	2	0.34	13.61			9.04	4.57			
306	0.163	2	0.34	13.44			8.73	4.71			
307	0.000	2	0.34	13.44			8.73	4.71			
307	0.163	2	0.43	17.21			12.58	4.63			
308	0.000	2	0.43	17.21			12.58	4.63			
308	0.163	2	0.32	12.94			8.38	4.56			
309	0.000	2	0.32	12.94			8.38	4.56			
309	0.163	2	0.32	12.73			8.44	4.29			
310	0.000	2	0.32	12.73			8.44	4.29			
310	0.163	2	0.33	13.02			8.73	4.29			
311	0.000	2	0.33	13.02			8.73	4.29			
311	0.163	2	0.34	13.40			9.11	4.29			
312	0.000	2	0.34	13.40			9.11	4.29			
312	0.163	2	0.35	13.81			9.52	4.29			
313	0.000	2	0.35	13.81			9.52	4.29			
313	0.163	2	0.36	14.30			10.01	4.29			
314	0.000	2	0.36	14.30			10.01	4.29			
314	0.163	2	0.37	14.87			10.58	4.29			
402	0.000	3	0.38	15.28			4.29	10.99			
402	0.142	3	0.35	14.00			4.44	9.56			
403	0.000	3	0.35	14.00			4.44	9.56			
403	0.142	3	0.34	13.75			5.77	7.98			
404	0.000	3	0.34	13.75			5.77	7.98			
404	0.142	3	0.34	13.78			6.95	6.83			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α2 -
 ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

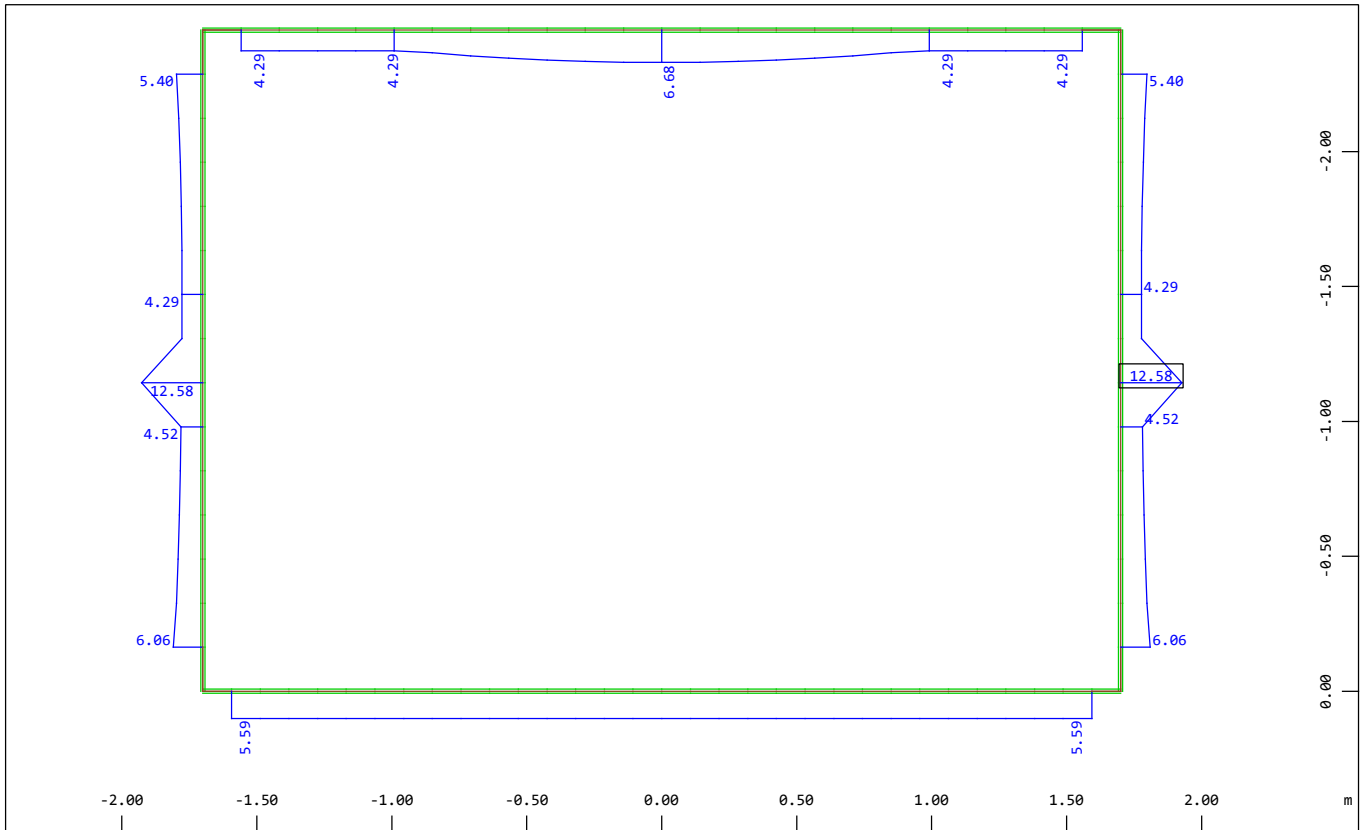
Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
405	0.000	3	0.34	13.78			6.95	6.83			
405	0.142	3	0.35	13.98			8.20	5.78			
406	0.000	3	0.35	13.98			8.20	5.78			
406	0.142	3	0.35	14.17			9.30	4.87			
407	0.000	3	0.35	14.17			9.30	4.87			
407	0.142	3	0.36	14.36			10.07	4.29			
408	0.000	3	0.36	14.36			10.07	4.29			
408	0.142	3	0.37	14.97			10.68	4.29			
409	0.000	3	0.37	14.97			10.68	4.29			
409	0.142	3	0.39	15.45			11.16	4.29			
410	0.000	3	0.39	15.45			11.16	4.29			
410	0.142	3	0.39	15.78			11.49	4.29			
411	0.000	3	0.39	15.78			11.49	4.29			
411	0.142	3	0.40	15.98			11.69	4.29			
412	0.000	3	0.40	15.98			11.69	4.29			
412	0.142	3	0.40	16.05			11.76	4.29			
413	0.000	3	0.40	16.05			11.76	4.29			
413	0.142	3	0.40	15.98			11.69	4.29			
414	0.000	3	0.40	15.98			11.69	4.29			
414	0.142	3	0.39	15.78			11.49	4.29			
415	0.000	3	0.39	15.78			11.49	4.29			
415	0.142	3	0.39	15.45			11.16	4.29			
416	0.000	3	0.39	15.45			11.16	4.29			
416	0.142	3	0.37	14.97			10.68	4.29			
417	0.000	3	0.37	14.97			10.68	4.29			
417	0.142	3	0.36	14.36			10.07	4.29			
418	0.000	3	0.36	14.36			10.07	4.29			
418	0.142	3	0.35	14.17			9.30	4.87			
419	0.000	3	0.35	14.17			9.30	4.87			
419	0.142	3	0.35	13.98			8.20	5.78			
420	0.000	3	0.35	13.98			8.20	5.78			
420	0.142	3	0.34	13.78			6.95	6.83			
421	0.000	3	0.34	13.78			6.95	6.83			
421	0.142	3	0.34	13.75			5.77	7.98			
422	0.000	3	0.34	13.75			5.77	7.98			
422	0.142	3	0.35	14.00			4.44	9.56			
423	0.000	3	0.35	14.00			4.44	9.56			
423	0.142	3	0.38	15.28			4.29	10.99			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

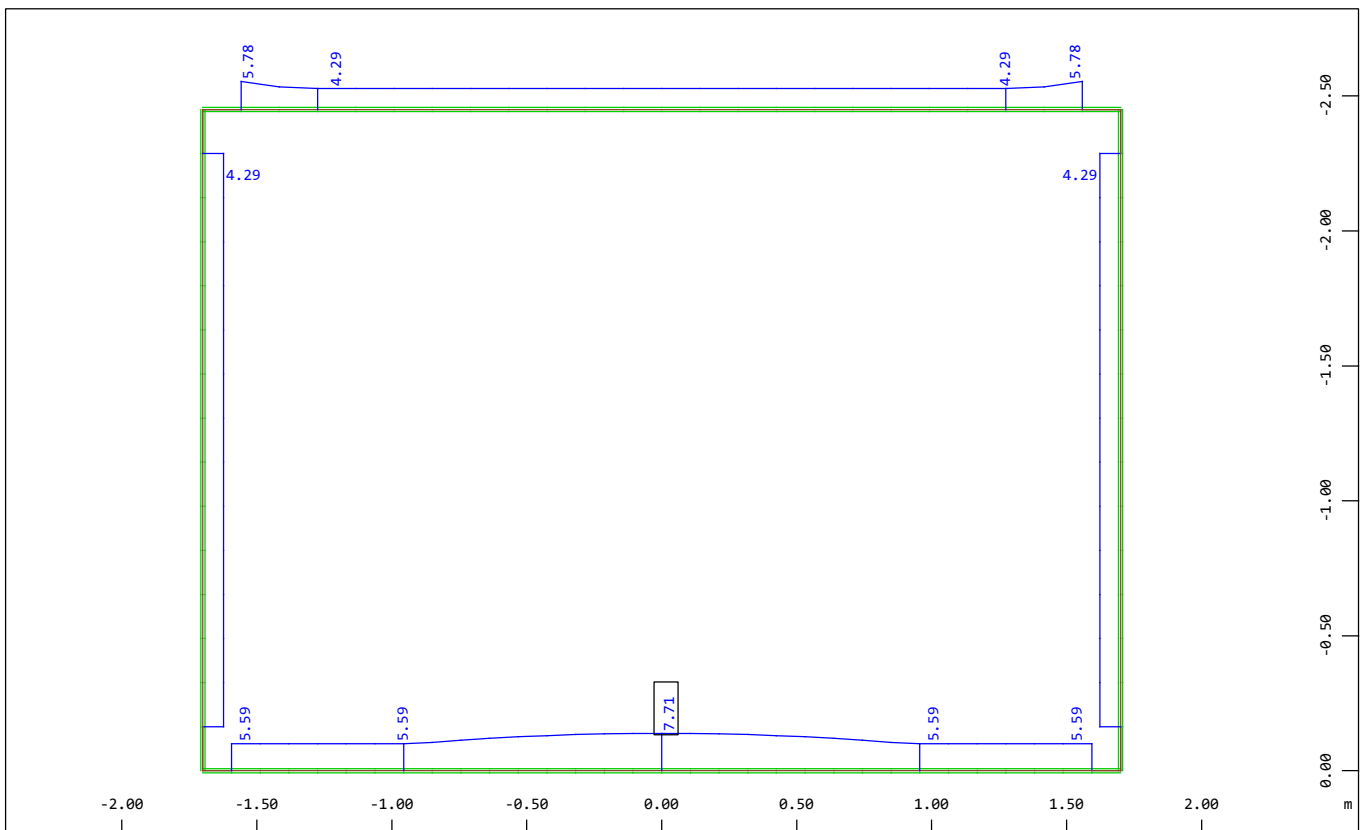
ρ geometric part of reinforcements
 Asl total longitudinal reinforcement
 vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
 Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ



Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M1, Design Case 1 , 1 cm 3D = 15.0 cm2
(Max=12.6)

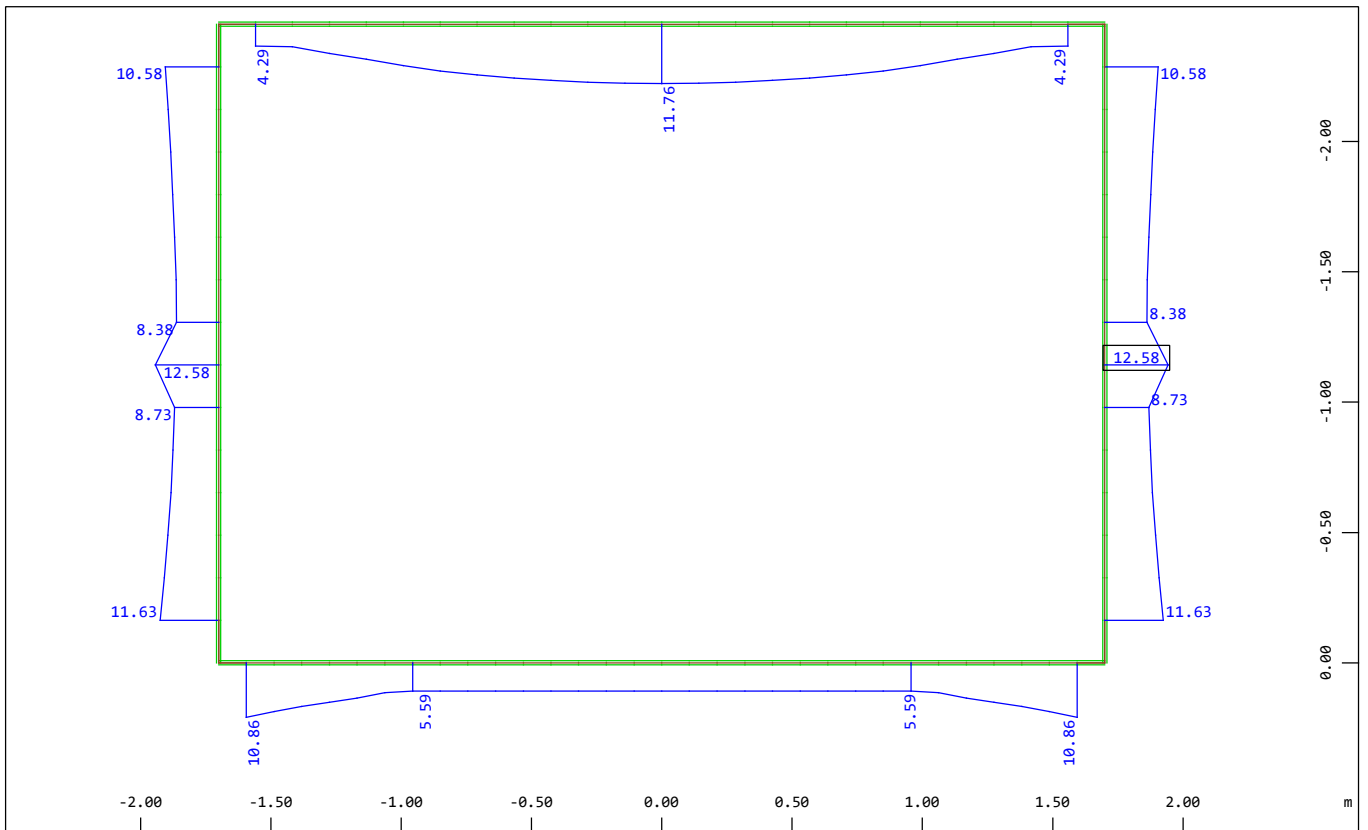
M 1 : 28



Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M2, Design Case 1 , 1 cm 3D = 15.0 cm2
(Max=7.71)

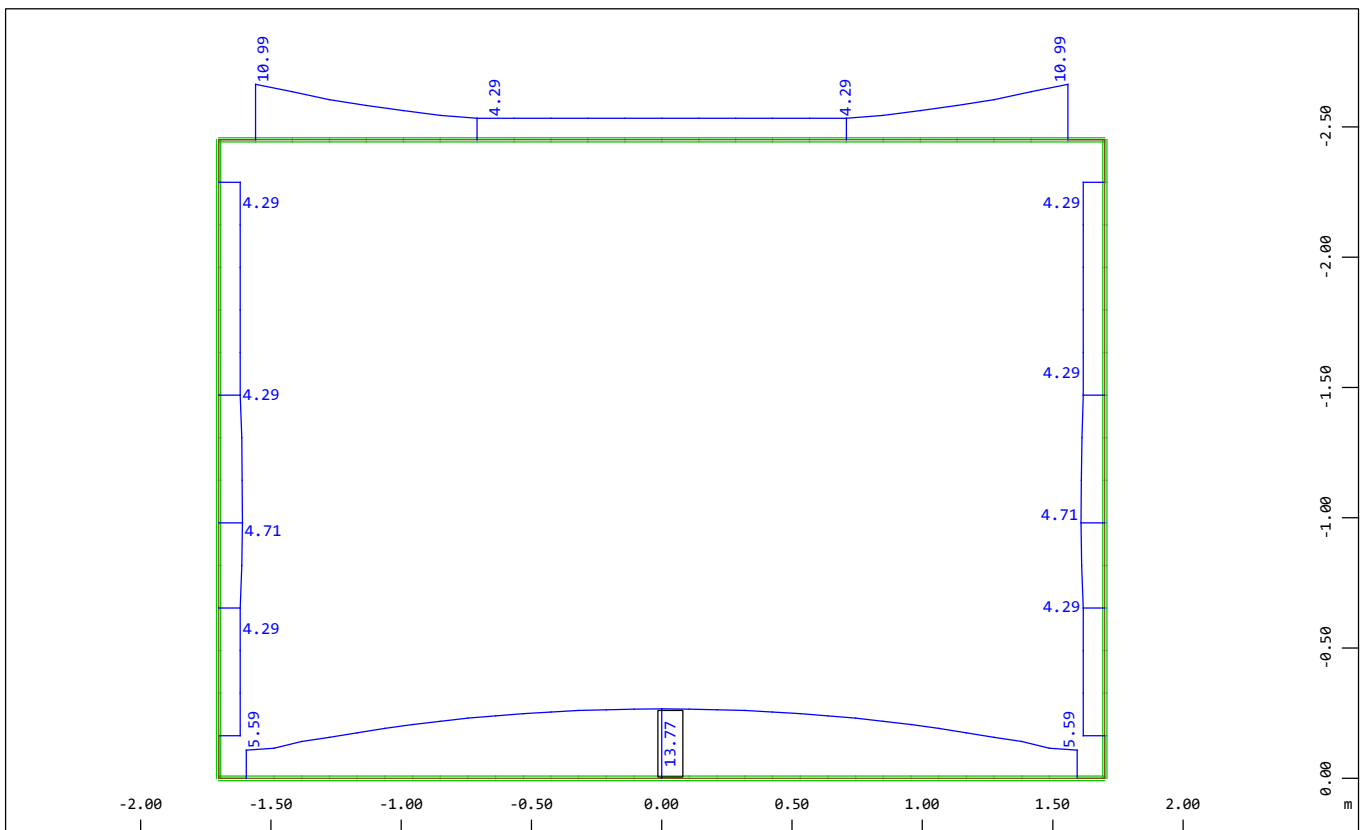
M 1 : 28

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ



Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M1, Design Case 2 , 1 cm 3D = 15.0 cm2
(Max=12.6)

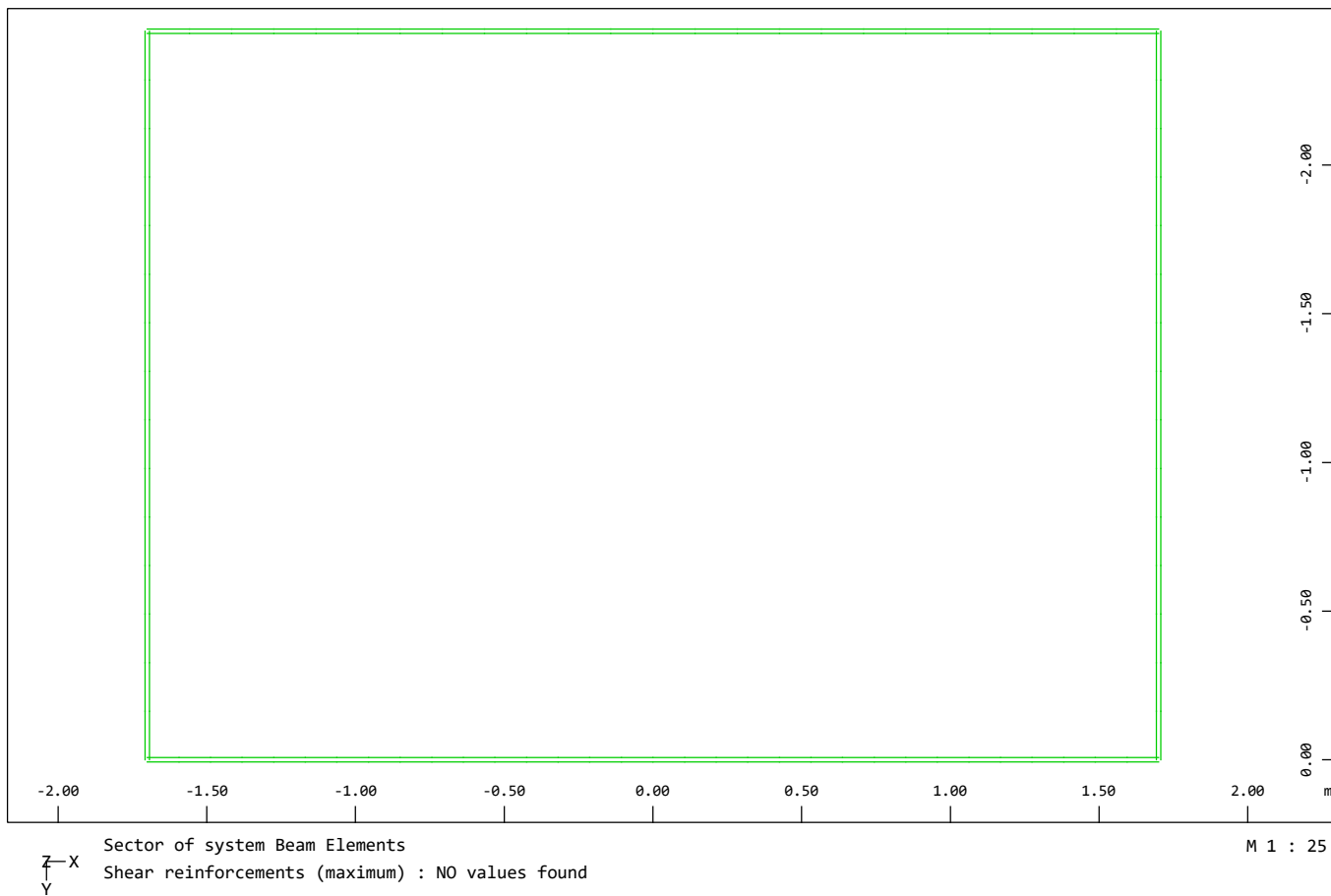
M 1 : 29



Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M2, Design Case 2 , 1 cm 3D = 15.0 cm2
(Max=13.8)

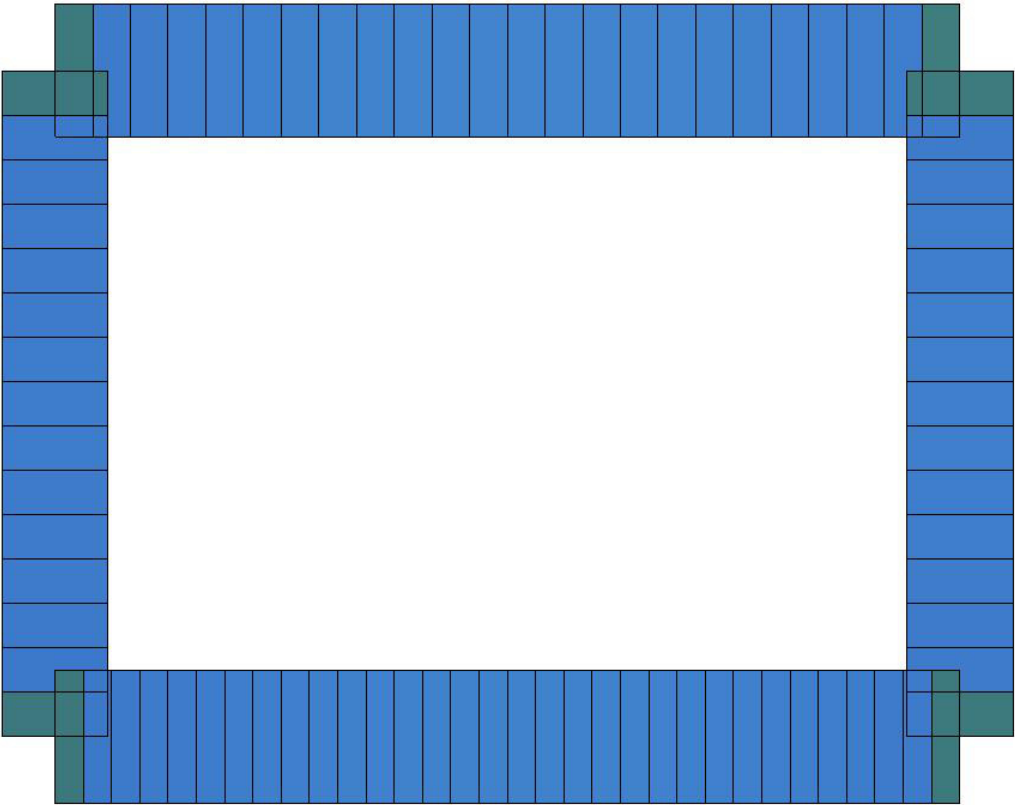
M 1 : 29

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α2 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΤΜΗΣΗΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

.



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

Table of Contents

ΑΓΩΓΟΣ

Introduction	1
ΑΓΩΓΟΣ Α3	1

.

Introduction	7
--------------------	---

ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	8
Mat 1 C 25/30 (EN 1992)	8
Mat 2 B 500 C (EN 1992)	8
Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	8
Cross section No. 1 - Πλάκα Πυθμένα	8
Cross section No. 1 - Πλάκα Πυθμένα	8
Static properties of cross section	9
Cross section No. 2 - Τοίχοι	9
Cross section No. 2 - Τοίχοι	9
Static properties of cross section	9
Cross section No. 3 - Πλάκα Οροφής	9
Cross section No. 3 - Πλάκα Οροφής	9
Static properties of cross section	10
Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10
Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10
Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ	10

.

Introduction	11
--------------------	----

ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups	12
Summary of beam elements	12
Groups	12
Cross sections	12

RIGID ELEMENTS

ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ

Beam Elements , Cross sections	13
Beam Elements , Coordinate system Number of group	14
Beam Elements , Number of element Beam Elements , Numbers of cross section	15
X-coordinate Y-coordinate	16
Spring constant Transverse spring constant	17

.

Introduction	18
--------------------	----

ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case 1 ΙΔΙΟ ΒΑΡΟΣ (G)	19
Load Case 2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	19
Load Case 3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	19
Load Case 4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	19
Load Case 5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	19
Load Case 6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	19
Load Case 7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	19
Load Case 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=7.8) (R2)	19
Load Case 22 ΚΙΝΗΤΑ (Heπ.=7.8) (Q2)	19

- ΑΓΩΓΟΣ Α3 -

All loads LC: 2	All loads LC: 3	20
All loads LC: 4	All loads LC: 5	21
All loads LC: 6	All loads LC: 7	22
All loads LC: 21	All loads LC: 22	23

Introduction	24
Introduction	25

Load Case 100	1.35G+C	26
Load Case 201	1.35(G+R2)+C	26
Load Case 202	G+1.35R2+C	26
Load Case 203	1.35G+R2+C	26
Load Case 204	1.35(G+R2)+C+1.2W	26
Load Case 205	G+1.35R2+C+1.2W	26
Load Case 206	1.35G+R2+C+1.2W	26
Load Case 207	1.35(G+R2)+C+1.5Q2	26
Load Case 208	G+1.35R2+C+1.5Q2	26
Load Case 209	1.35G+R2+C+1.5Q2	27
Load Case 210	1.35(G+R2)+C+1.2W+1.5Q2	27
Load Case 211	G+1.35R2+C+1.2W+1.5Q2	27
Load Case 212	1.35G+R2+C+1.2W+1.5Q2	27
Load Case 213	1.35(G+R2)+C+1.5Q2+0.75T	27
Load Case 214	G+1.35R2+C+1.5Q2+0.75T	27
Load Case 215	1.35G+R2+C+1.5Q2+0.75T	27
Load Case 216	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	27
Load Case 217	G+1.35R2+C+1.2W+1.5Q2+0.75T	28
Load Case 218	1.35G+R2+C+1.2W+1.5Q2+0.75T	28
Load Case 219	1.35(G+R2)+C+1.5Q2+0.75T	28
Load Case 220	G+1.35R2+C+1.5Q2+0.75T	28
Load Case 221	1.35G+R2+C+1.5Q2+0.75T	28
Load Case 222	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	28
Load Case 223	G+1.35R2+C+1.2W+1.5Q2+0.75T	29
Load Case 224	1.35G+R2+C+1.2W+1.5Q2+0.75T	29
Load Case 225	1.35(G+R2)+C+1.5Q2+0.75T	29
Load Case 226	G+1.35R2+C+1.5Q2+0.75T	29
Load Case 227	1.35G+R2+C+1.5Q2+0.75T	29
Load Case 228	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	29
Load Case 229	G+1.35R2+C+1.2W+1.5Q2+0.75T	29
Load Case 230	1.35G+R2+C+1.2W+1.5Q2+0.75T	30
Load Case 231	1.35(G+R2)+C+1.5Q2+0.75T	30
Load Case 232	G+1.35R2+C+1.5Q2+0.75T	30
Load Case 233	1.35G+R2+C+1.5Q2+0.75T	30
Load Case 234	1.35(G+R2)+C+1.2W+1.5Q2+0.75T	30
Load Case 235	G+1.35R2+C+1.2W+1.5Q2+0.75T	30
Load Case 236	1.35G+R2+C+1.2W+1.5Q2+0.75T	30
Load Case 237	1.35(G+R2)+C+0.9Q2+1.5T	31
Load Case 238	G+1.35R2+C+0.9Q2+1.5T	31
Load Case 239	1.35G+R2+C+0.9Q2+1.5T	31
Load Case 240	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	31
Load Case 241	G+1.35R2+C+1.2W+0.9Q2+1.5T	31
Load Case 242	1.35G+R2+C+1.2W+0.9Q2+1.5T	31
Load Case 243	1.35(G+R2)+C+0.9Q2+1.5T	31
Load Case 244	G+1.35R2+C+0.9Q2+1.5T	32
Load Case 245	1.35G+R2+C+0.9Q2+1.5T	32
Load Case 246	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	32

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 247	G+1.35R2+C+1.2W+0.9Q2+1.5T	32
Load Case 248	1.35G+R2+C+1.2W+0.9Q2+1.5T	32
Load Case 249	1.35(G+R2)+C+0.9Q2+1.5T	32
Load Case 250	G+1.35R2+C+0.9Q2+1.5T	32
Load Case 251	1.35G+R2+C+0.9Q2+1.5T	33
Load Case 252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	33
Load Case 253	G+1.35R2+C+1.2W+0.9Q2+1.5T	33
Load Case 254	1.35G+R2+C+1.2W+0.9Q2+1.5T	33
Load Case 255	1.35(G+R2)+C+0.9Q2+1.5T	33
Load Case 256	G+1.35R2+C+0.9Q2+1.5T	33
Load Case 257	1.35G+R2+C+0.9Q2+1.5T	33
Load Case 258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T	34
Load Case 259	G+1.35R2+C+1.2W+0.9Q2+1.5T	34
Load Case 260	1.35G+R2+C+1.2W+0.9Q2+1.5T	34
Load Case 261	1.35(G+R2)+C+1.2W+1.5T	34
Load Case 262	G+1.35R2+C+1.2W+1.5T	34
Load Case 263	1.35G+R2+C+1.2W+1.5T	34
Load Case 264	1.35(G+R2)+C+1.2W+1.5T	34
Load Case 265	G+1.35R2+C+1.2W+1.5T	35
Load Case 266	1.35G+R2+C+1.2W+1.5T	35
Load Case 267	1.35(G+R2)+C+1.2W+1.5T	35
Load Case 268	G+1.35R2+C+1.2W+1.5T	35
Load Case 269	1.35G+R2+C+1.2W+1.5T	35
Load Case 270	1.35(G+R2)+C+1.2W+1.5T	35
Load Case 271	G+1.35R2+C+1.2W+1.5T	35
Load Case 272	1.35G+R2+C+1.2W+1.5T	35

Introduction	37
--------------	----

ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400	G+C	38
Load Case 421	G+C+R2	38
Load Case 422	G+C+R2+W	38
Load Case 423	G+C+R2+Q2	38
Load Case 424	G+C+R2+W+Q2	38
Load Case 425	G+C+R2+T	38
Load Case 426	G+C+R2+T	38
Load Case 427	G+C+R2+T	38
Load Case 428	G+C+R2+T	38

Introduction	40
--------------	----

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Introduction	41
Conclusion	41

Introduction	43
--------------	----

ΑΠΟΤΕΛΕΣΜΑΤΑ

Spring force LC: 201	Nodal displacement vector LC: 201	44
Beam Elements , Normal force Nx LC: 201	Beam Elements , Shear force Vz LC: 201	45
Spring force LC: 224	Nodal displacement vector LC: 224	46
Beam Elements , Normal force Nx LC: 224	Beam Elements , Shear force Vz LC: 224	47
Spring force LC: 240	Nodal displacement vector LC: 240	48

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

ΑΠΟΤΕΛΕΣΜΑΤΑ

Beam Elements , Normal force Nx LC: 240 Beam Elements , Shear force Vz LC: 240 Beam Elements ,	49
Spring force LC: 250 Nodal displacement vector LC: 250	50
Beam Elements , Normal force Nx LC: 250 Beam Elements , Shear force Vz LC: 250 Beam Elements ,	51
Spring force LC: 268 Nodal displacement vector LC: 268	52
Beam Elements , Normal force Nx LC: 268 Beam Elements , Shear force Vz LC: 268 Beam Elements ,	53
Spring force LC: 272 Nodal displacement vector LC: 272	54
Beam Elements , Normal force Nx LC: 272 Beam Elements , Shear force Vz LC: 272 Beam Elements ,	55
Spring force LC: 400 Nodal displacement vector LC: 400	56
Beam Elements , Normal force Nx LC: 400 Beam Elements , Shear force Vz LC: 400 Beam Elements ,	57
Spring force LC: 421 Nodal displacement vector LC: 421	58
Beam Elements , Normal force Nx LC: 421 Beam Elements , Shear force Vz LC: 421 Beam Elements ,	59
Spring force LC: 425 Nodal displacement vector LC: 425	60
Beam Elements , Normal force Nx LC: 425 Beam Elements , Shear force Vz LC: 425 Beam Elements ,	61
Spring force LC: 428 Nodal displacement vector LC: 428	62
Beam Elements , Normal force Nx LC: 428 Beam Elements , Shear force Vz LC: 428 Beam Elements ,	63

Introduction	64
--------------------	----

ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	65
Combination rule Number 1	65
Load Case selection	65
Generated Load Cases	66

ΠΕΡΙΒΑΛΛΟΥΣΕΣ

Supporting springs , Spring force LC: 1121 Supporting springs , Spring force LC: 1122	67
Nodal displacement in global Y LC: 1113 Nodal displacement in global Y LC: 1114	68
Nodal displacement in global X LC: 1111 Nodal displacement in global X LC: 1112	69
Beam Elements , Normal force Nx LC: 1101 Beam Elements , Bending moment My LC: 1101	70
Beam Elements , Normal force Nx LC: 1102 Beam Elements , Bending moment My LC: 1102	71
Beam Elements , Normal force Nx LC: 1103 Beam Elements , Bending moment My LC: 1103	72
Beam Elements , Normal force Nx LC: 1104 Beam Elements , Bending moment My LC: 1104	73
Beam Elements , Shear force Vz LC: 1105 Beam Elements , Shear force Vz LC: 1106	74

ΠΕΡΙΒΑΛΛΟΥΣΕΣ

Supporting springs , Spring force LC: 1121 Supporting springs , Spring force LC: 1122	75
Nodal displacement in global Y LC: 1113 Nodal displacement in global Y LC: 1114	76
Nodal displacement in global X LC: 1111 Nodal displacement in global X LC: 1112	77
Beam Elements , Normal force Nx LC: 1101 Beam Elements , Bending moment My LC: 1101	78
Beam Elements , Normal force Nx LC: 1102 Beam Elements , Bending moment My LC: 1102	79
Beam Elements , Normal force Nx LC: 1103 Beam Elements , Bending moment My LC: 1103	80
Beam Elements , Normal force Nx LC: 1104 Beam Elements , Bending moment My LC: 1104	81
Beam Elements , Shear force Vz LC: 1105 Beam Elements , Shear force Vz LC: 1106	82

Introduction	83
--------------------	----

ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures	84
Combination rule Number 3	84
Load Case selection	84
Generated Load Cases	84

ΠΕΡΙΒΑΛΛΟΥΣΕΣ

Supporting springs , Spring force LC: 1321 Supporting springs , Spring force LC: 1322	85
Nodal displacement in global Y LC: 1313 Nodal displacement in global Y LC: 1314	86
Nodal displacement in global X LC: 1311 Nodal displacement in global X LC: 1312	87
Beam Elements , Normal force Nx LC: 1301 Beam Elements , Bending moment My LC: 1301	88

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -

ΠΕΡΙΒΑΛΛΟΥΣΕΣ

Beam Elements , Normal force Nx LC: 1302 Beam Elements , Bending moment My LC: 1302	89
Beam Elements , Normal force Nx LC: 1303 Beam Elements , Bending moment My LC: 1303	90
Beam Elements , Normal force Nx LC: 1304 Beam Elements , Bending moment My LC: 1304	91
Beam Elements , Shear force Vz LC: 1305 Beam Elements , Shear force Vz LC: 1306	92

ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	93
Selected Beam Elements	93
Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures	93
Shear Design	93
Longitudinal Reinforcements - Design case No. 1	94
Shear Reinforcements per Cutted Part of Section - Design case No. 1	96
Maximum Utilisation Level	98

ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018	99
Selected Beam Elements	99
Nonlinear Stresses	99
Parameters for Nonlinear Stresses	99
Maximum Stresses and Checked Limits	99
Longitudinal Reinforcements - Design case No. 2	99

ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ

Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 1 Beam Elements , Longitudinal Reinforce	103
Beam Elements , Longitudinal Reinforcements Lay. 1 BC: 2 Beam Elements , Longitudinal Reinforce	104
Shear reinforcements (maximum) BC: 2	105

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)
Snow load zone : 1

Mat 1 C 25/30 (EN 1992)

Young's modulus	E	31476	[N/mm ²]	Safetyfactor	1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	25.00 [MPa]
Shear modulus	G	13115	[N/mm ²]	Nominal strength	fck	25.00 [MPa]
Compression modulus	K	17487	[N/mm ²]	Tensile strength	fctm	2.56 [MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.80 [MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	3.33 [MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.69 [MPa]
				Service strength	fcm	33.00 [MPa]
				Fatigue strength	fcd,fat	12.75 [MPa]
				Tensile strength	fctd	1.20 [MPa]
				Tensile failure energy	Gf	0.14 [N/mm]

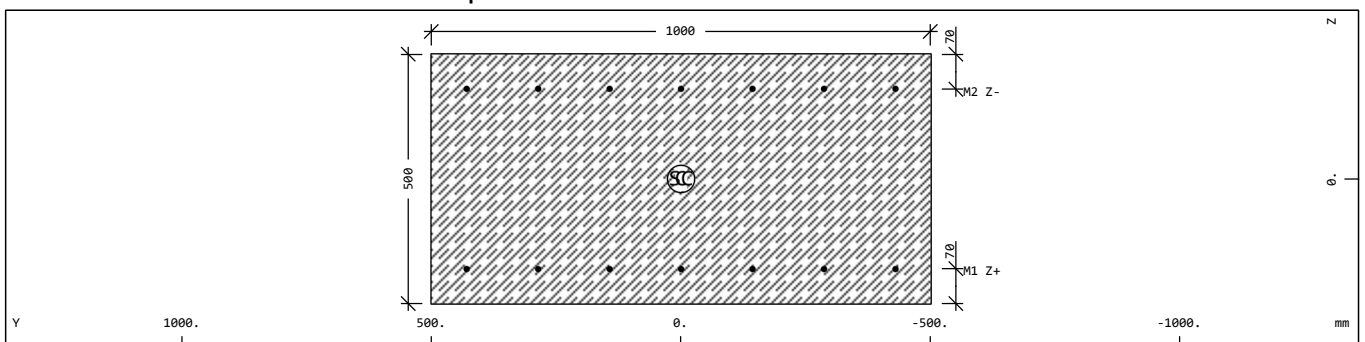
Mat 2 B 500 C (EN 1992)

Young's modulus	E	200000	[N/mm ²]	Safetyfactor	1.15	[-]
Poisson's ratio	μ	0.30	[-]	Yield stress	fy	500.00 [MPa]
Shear modulus	G	76923	[N/mm ²]	Compressive yield	fyc	500.00 [MPa]
Compression modulus	K	166667	[N/mm ²]	Tensile strength	ft	575.00 [MPa]
Nominal Weight	γ	78.5	[kN/m ³]	Compressive strength	fc	575.00 [MPa]
Mean density	ρ	7850.0	[kg/m ³]	Ultimate strain		75.00 [o/oo]
Elongation coefficient	α	1.20E-05	[1/K]	relative bond coeff.		1.00 [-]
max. thickness	t-max	32.00	[mm]	EN 1992 bond coeff.	k1	0.80 [-]
				Hardening modulus	Eh	0.00 [MPa]
				Proportional limit	fp	500.00 [MPa]
				Dynamic allowance	σ-dyn	152.17 [MPa]

Mat 11 ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

Young's modulus	E	5000000	[N/mm ²]	Safetyfactor	1.50	[-]
Poisson's ratio	μ	0.20	[-]	Strength	fc	20.00 [MPa]
Shear modulus	G	2083333	[N/mm ²]	Nominal strength	fck	20.00 [MPa]
Compression modulus	K	2777778	[N/mm ²]	Tensile strength	fctm	2.21 [MPa]
Nominal Weight	γ	25.0	[kN/m ³]	Tensile strength	fctk,05	1.55 [MPa]
Mean density	ρ	2400.0	[kg/m ³]	Tensile strength	fctk,95	2.87 [MPa]
Elongation coefficient	α	1.00E-05	[1/K]	Bond strength	fbd	2.32 [MPa]
				Service strength	fcm	28.00 [MPa]
				Fatigue strength	fcd,fat	10.43 [MPa]
				Tensile strength	fctd	1.03 [MPa]
				Tensile failure energy	Gf	0.13 [N/mm]

Cross section No. 1 - Πλάκα Πυθμένα



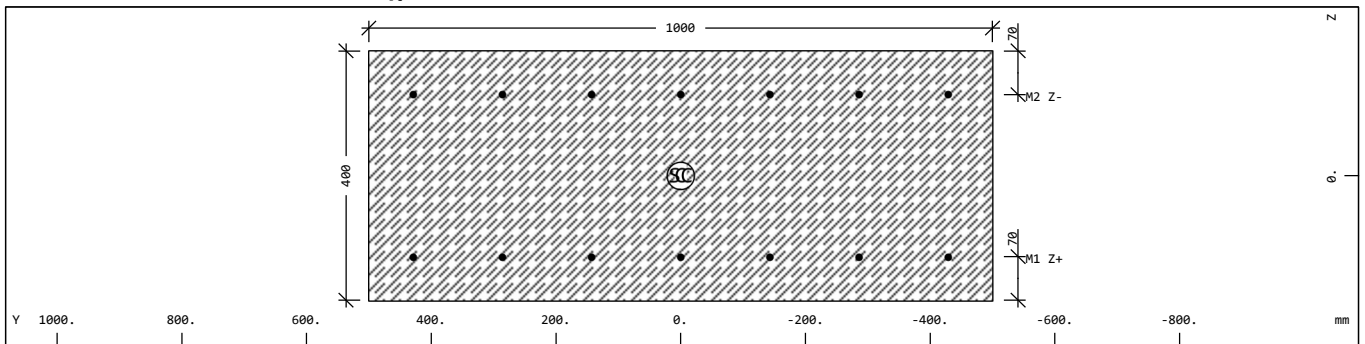
Cross section No. 1 - Πλάκα Πυθμένα

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
1	1	5.0000E-01	4.167E-01	1.042E-02	0.0	0.0	31476	1250.0	4.167E-02
	2	2.859E-02	4.167E-01	4.167E-02	0.0	0.0	13115	(CENTR)	1.042E-02
= Πλάκα Πυθμένα									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 2 - Τοίχοι

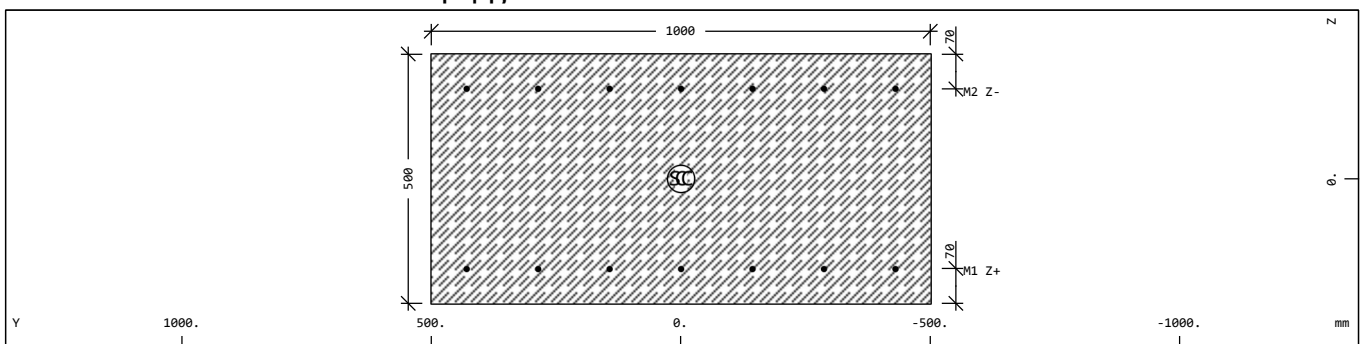


Cross section No. 2 - Τοίχοι

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
2	1	4.0000E-01	3.333E-01	5.333E-03	0.0	0.0	31476	1000.0	3.333E-02
	2	1.596E-02	3.333E-01	3.333E-02	0.0	0.0	13115	(CENTR)	5.333E-03
= Τοίχοι									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 3 - Πλάκα Οροφής



Cross section No. 3 - Πλάκα Οροφής

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΟΡΙΣΜΟΣ ΥΛΙΚΩΝ ΚΑΙ ΔΙΑΤΟΜΩΝ

Static properties of cross section

SNo	Mat	A[m2]	Ay[m2]	Iy[m4]	yc[mm]	ysc[mm]	E[N/mm2]	g[kg/m]	I-1[m4]
	MRf	It[m4]	Az[m2]	Iz[m4]	zc[mm]	zsc[mm]	G[N/mm2]		I-2[m4]
			Ayz[m2]	Iyz[m4]					α[°]
3	1	5.0000E-01	4.167E-01	1.042E-02	0.0	0.0	31476	1250.0	4.167E-02
	2	2.859E-02	4.167E-01	4.167E-02	0.0	0.0	13115	(CENTR)	1.042E-02
= Πλάκα Οροφής									
SNo	section number			yc[mm],zc[mm]		ordinate of elastic centroid			
Mat	material number			ysc[mm],zsc[mm]		ordinate of shear centre			
A[m2]	sectional area			E[N/mm2]		Young's modulus			
Ay[m2],Az[m2],Ayz[m2]	transverse shear deformation area			g[kg/m]		weight per length			
Iy[m4],Iz[m4],Iyz[m4]	bending moment of inertia								
I-1[m4],I-2[m4],α[°]	principal moments of inertia and angle of the principal axes								
MRf	reinforcement material number								
It[m4]	torsional moment of inertia								
G[N/mm2]	Shear modulus								

Cross section No. 11 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 12 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ
 Cross section No. 13 - ΑΚΑΜΠΤΟ ΣΤΟΙΧΕΙΟ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΑΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΔΕΔΟΜΕΝΑ ΠΡΟΣΟΜΟΙΩΜΑΤΟΣ Π.Σ.

Groups

Grp	number	Type	min-no	max-no	Designation
0	33	SPRI	1	33	Έδραση
1	32	BEAM	101	132	Πυθμένας
2	15	BEAM	201	215	Τοίχος (Αρ)
3	15	BEAM	301	315	Τοίχος (Δεξ)
4	24	BEAM	401	424	Πλάκα
5	16	SPRI	501	516	Πλ. Έδραση (Αρ)
6	16	SPRI	601	616	Πλ. Έδραση (Δεξ)
Grp primary group number number number of elements within group Type element type min-no,max-no minimum/maximum element number					

Summary of beam elements

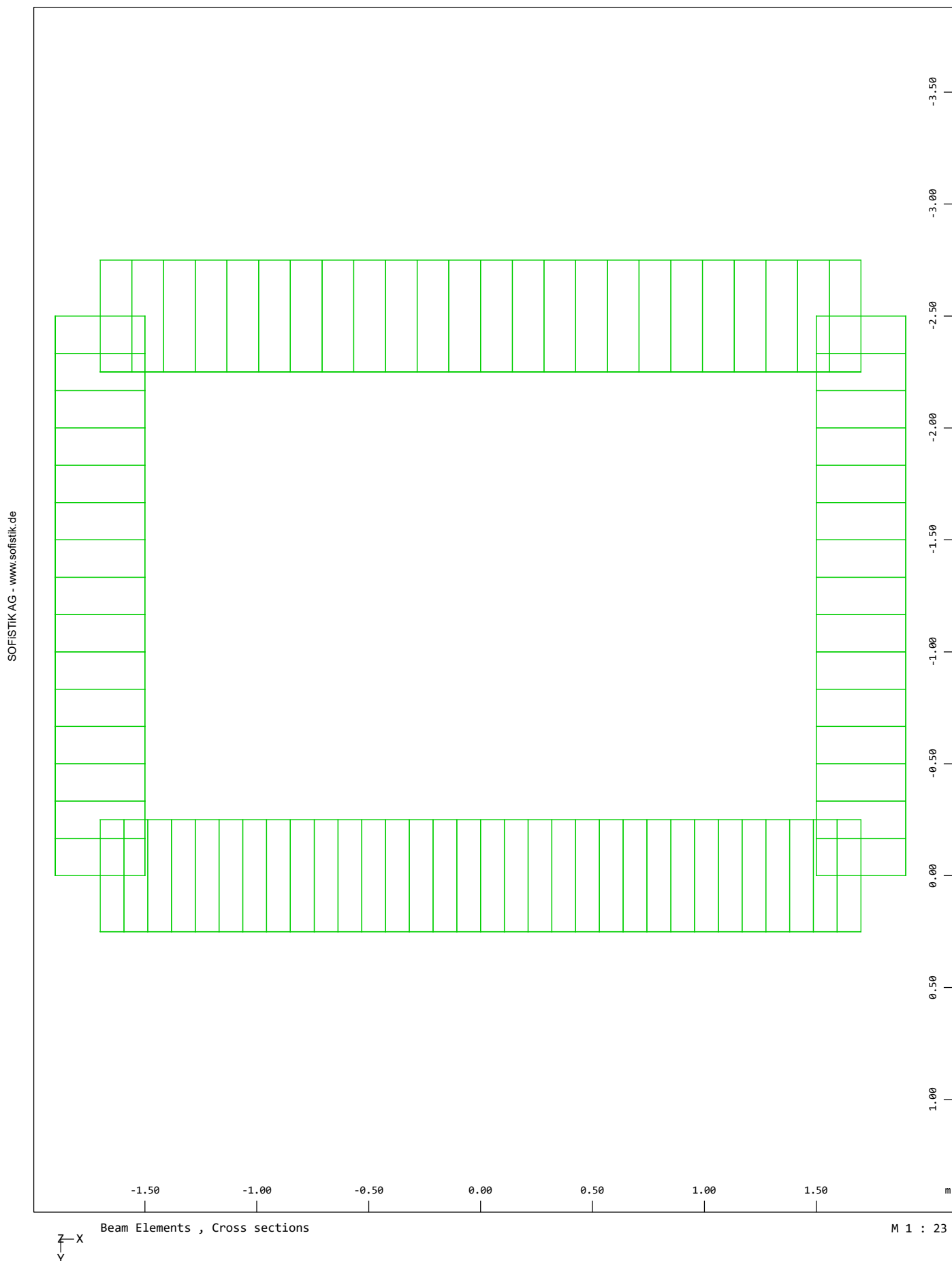
Groups

Grp	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]
1	3.400	0.106	1.700	4.250
2	2.500	0.167	1.000	2.500
3	2.500	0.167	1.000	2.500
4	3.400	0.142	1.700	4.250
Sum	11.800		5.400	13.500
Grp primary group number				

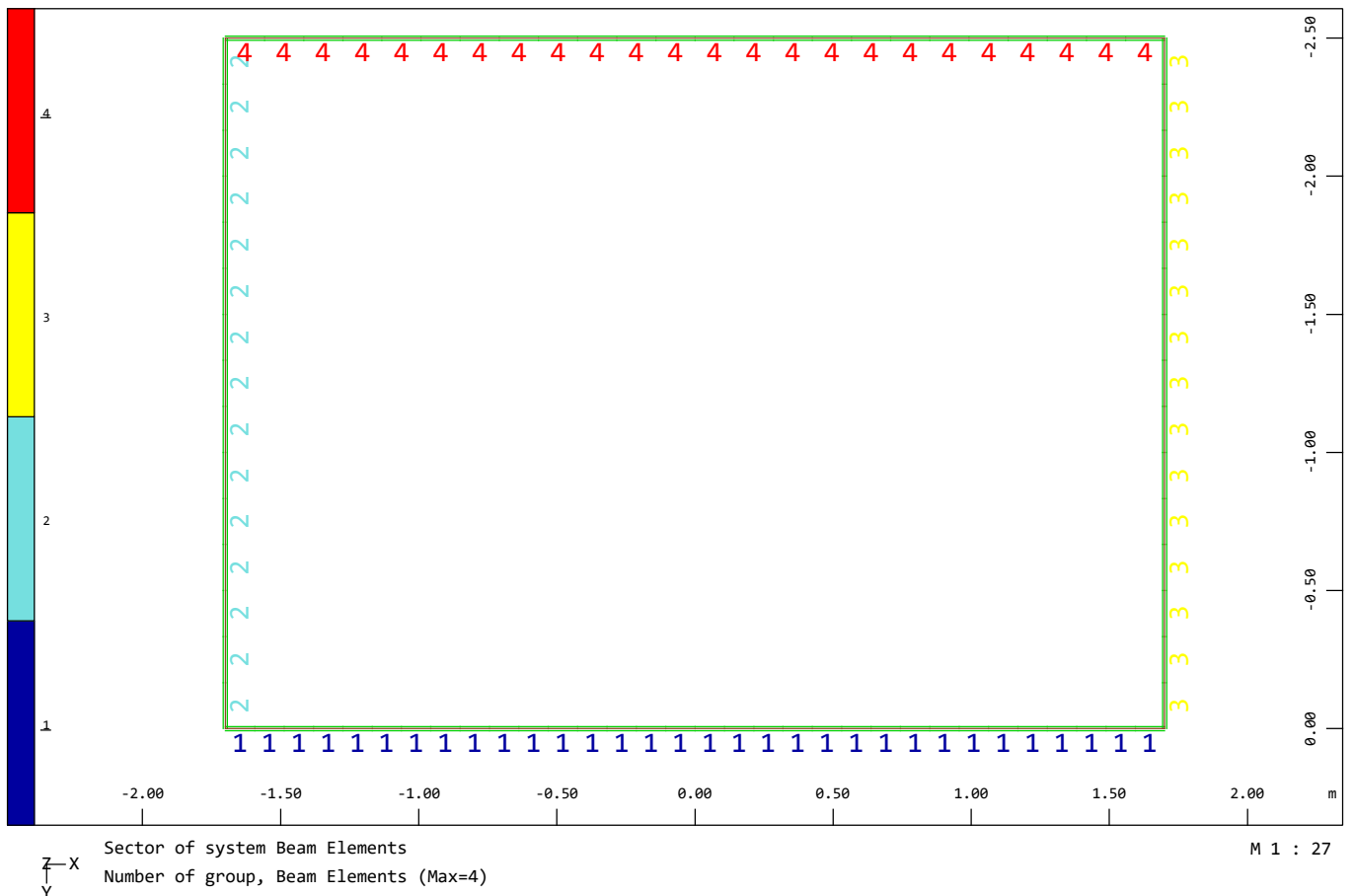
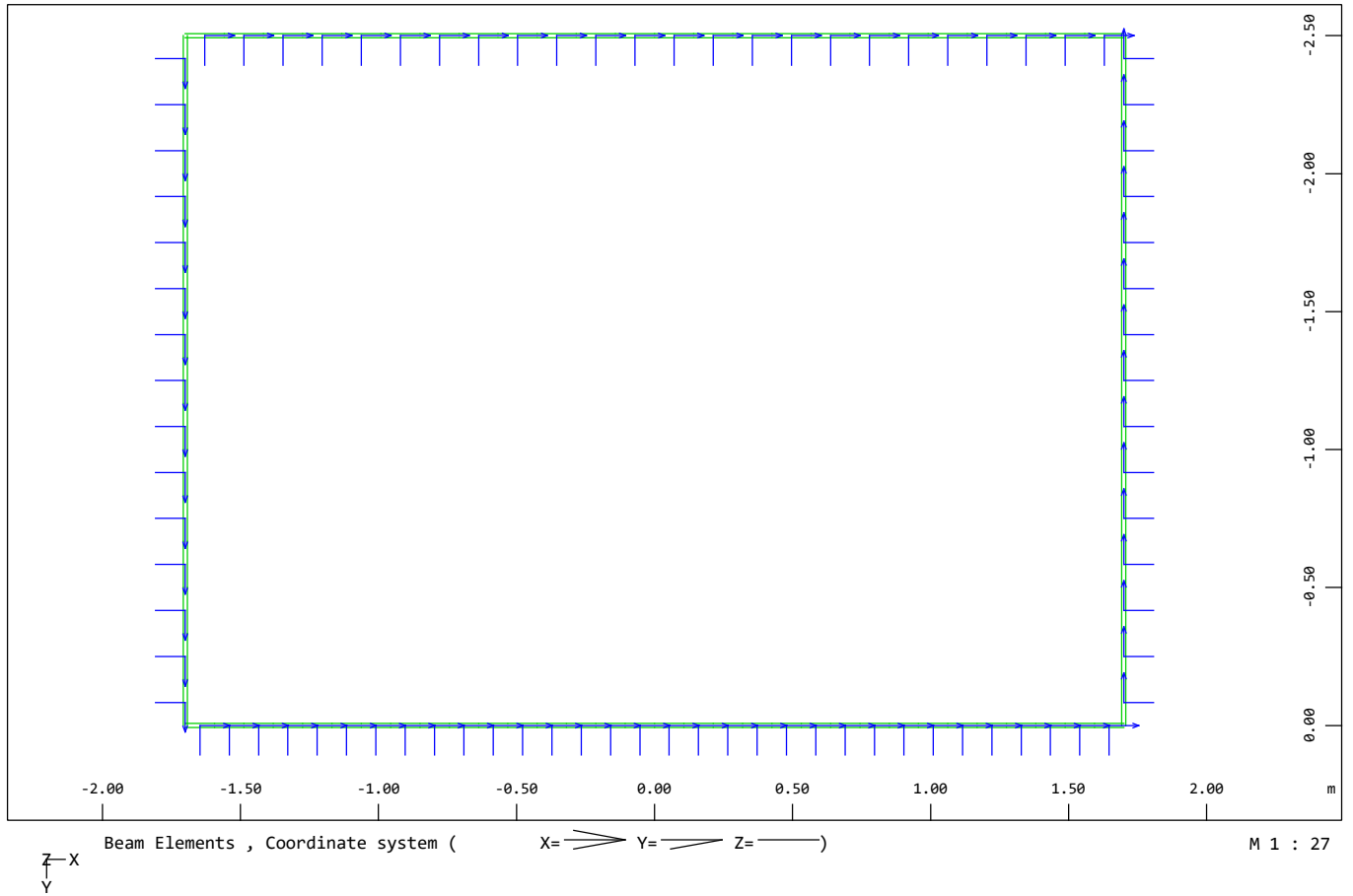
Cross sections

SNo	TotLength [m]	Max.Length [m]	TotVolume [m3]	TotWeight [t]	Designation
1	3.400	0.106	1.700	4.250	Πλάκα Πυθμένα
2	5.000	0.167	2.000	5.000	Τοίχοι
3	3.400	0.142	1.700	4.250	Πλάκα Οροφής
Sum	11.800		5.400	13.500	
SNo section number					

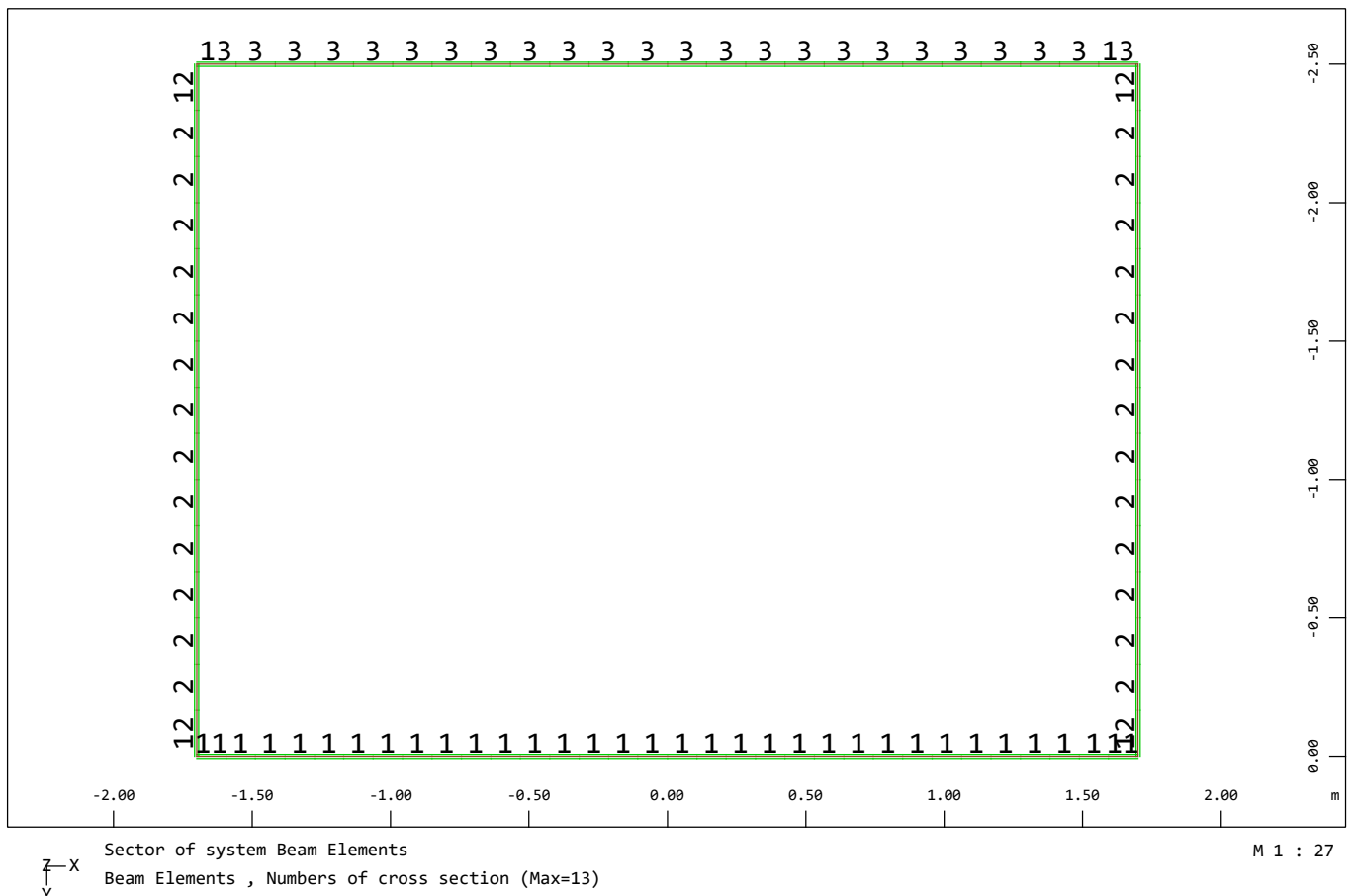
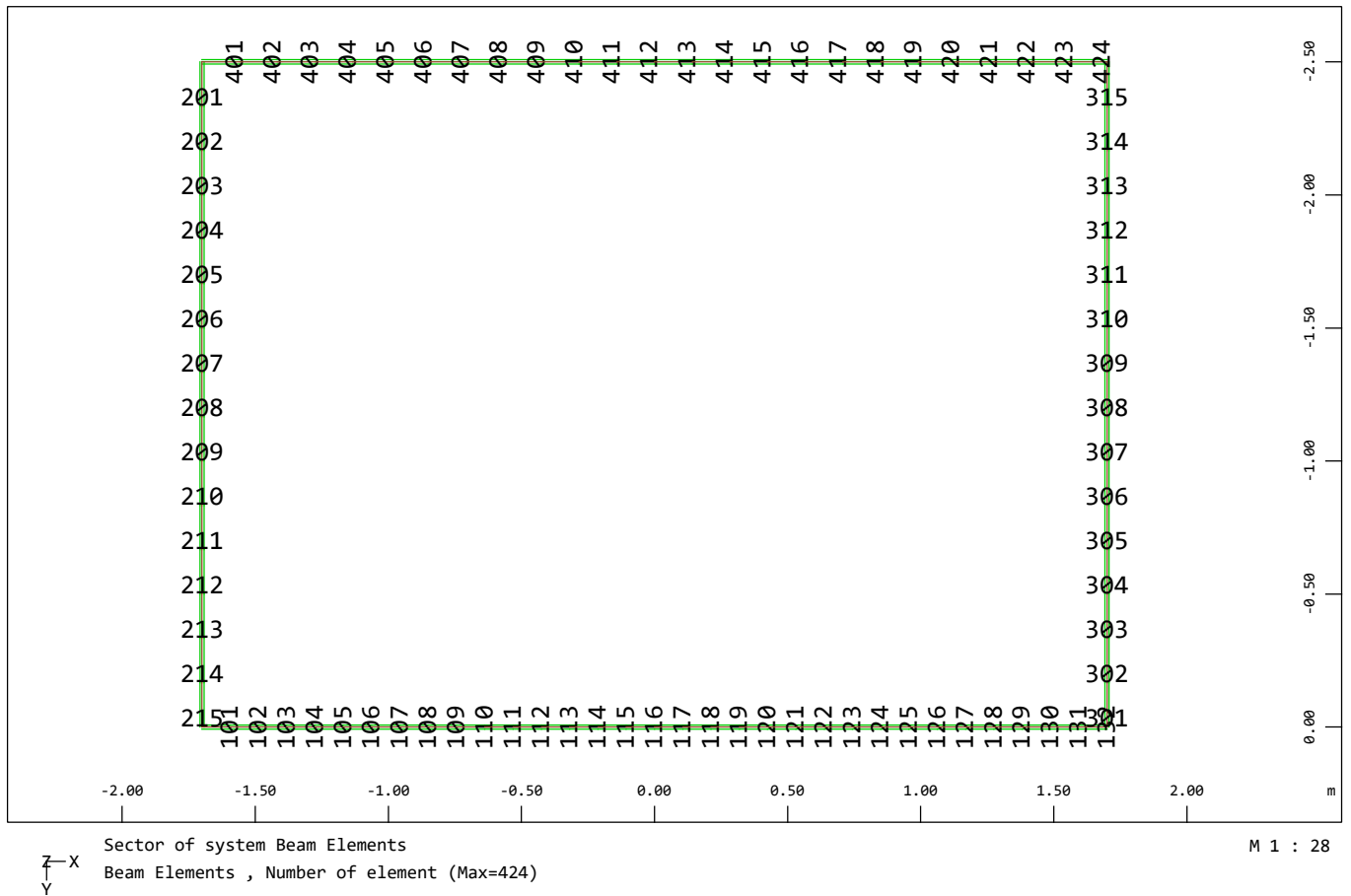
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- ΑΓΩΓΟΣ Α3 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



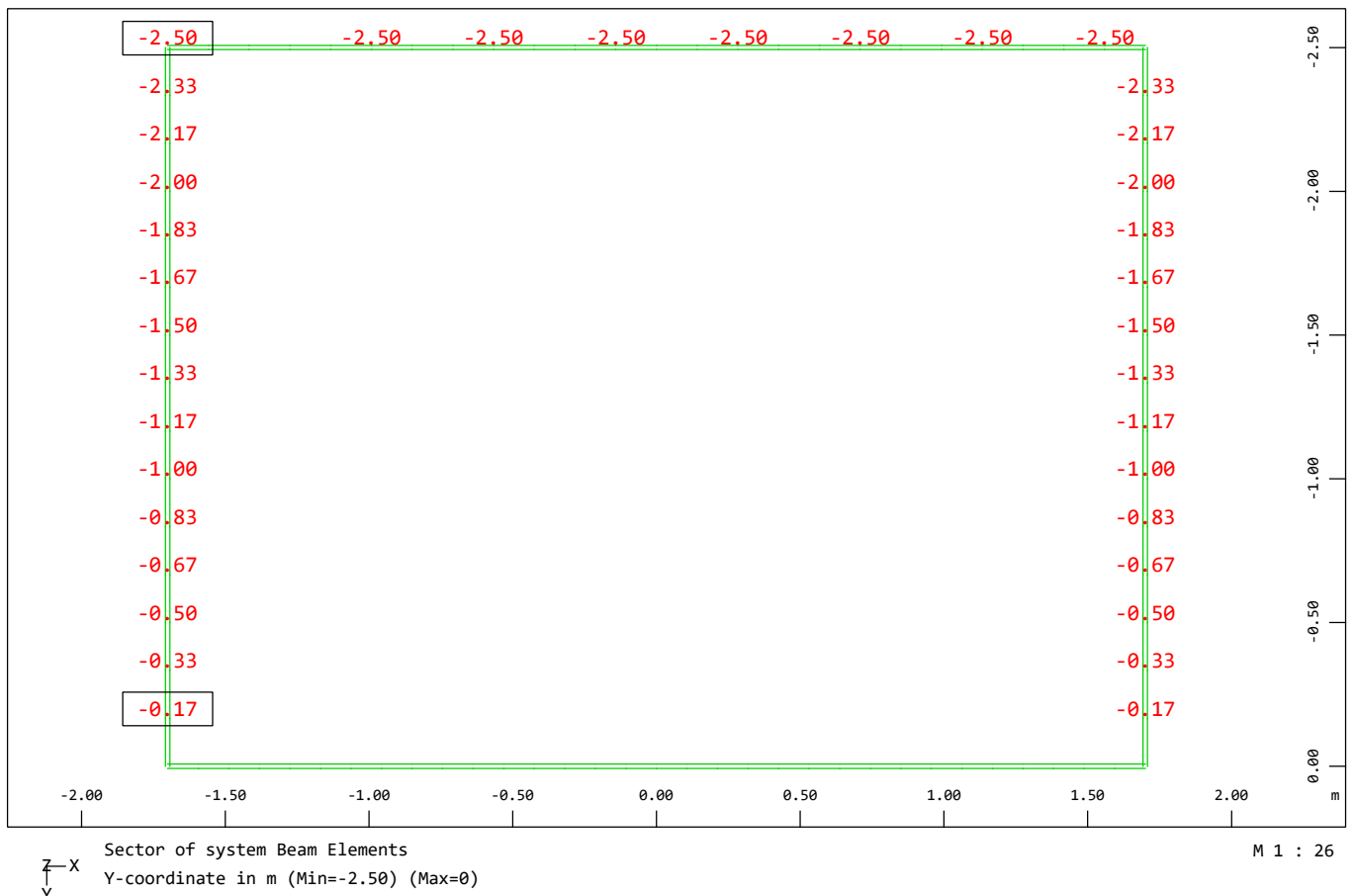
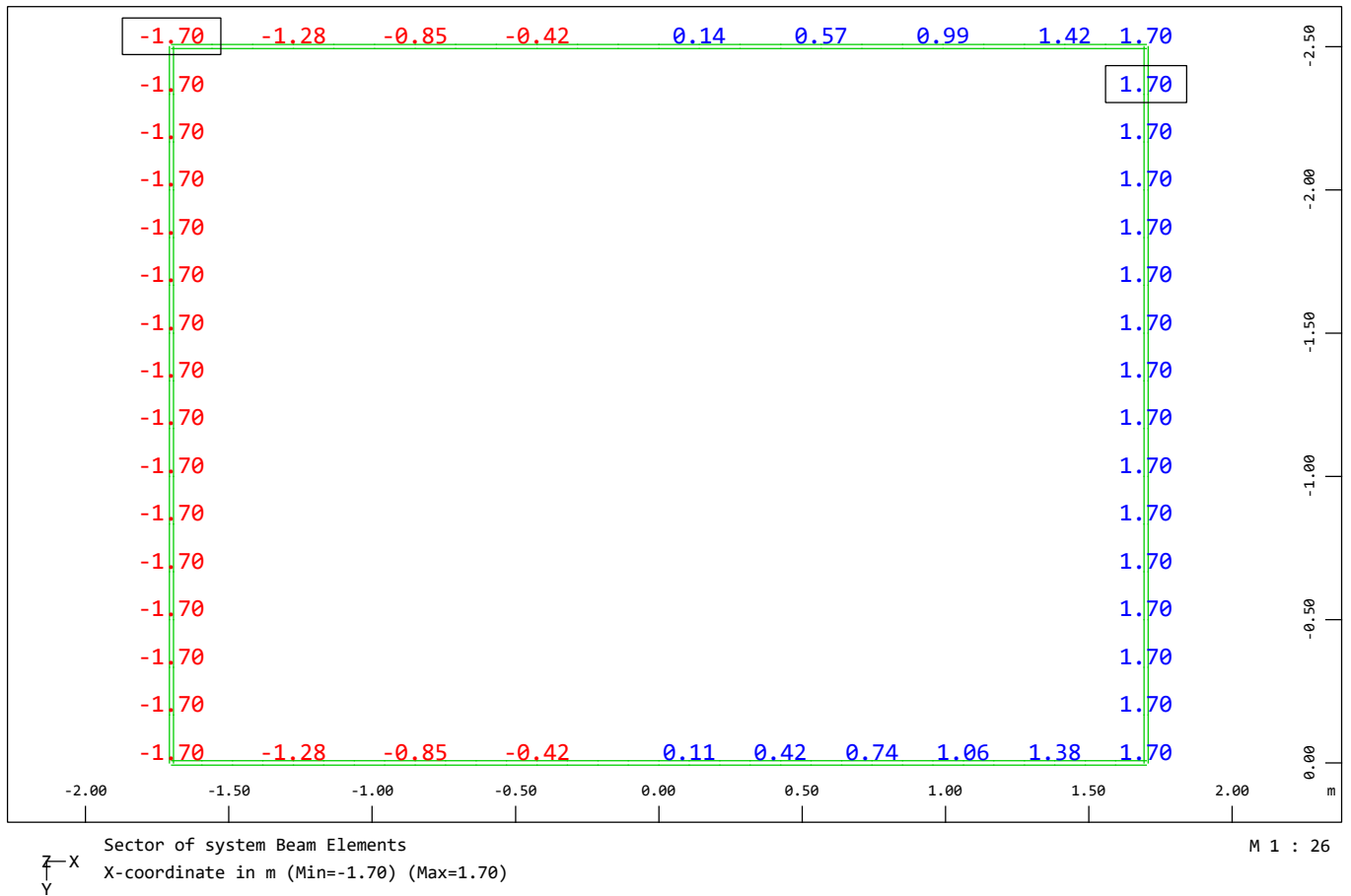
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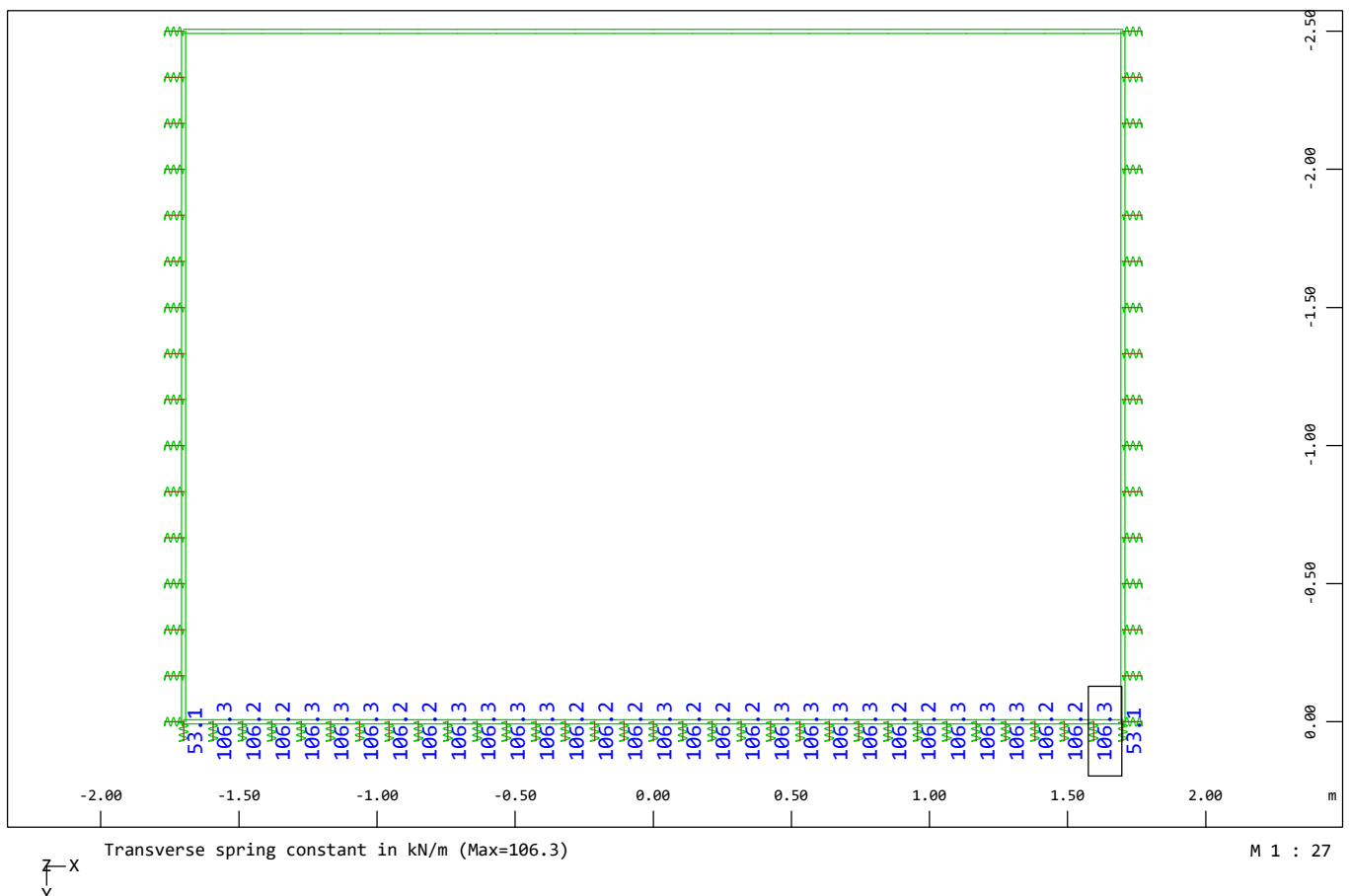
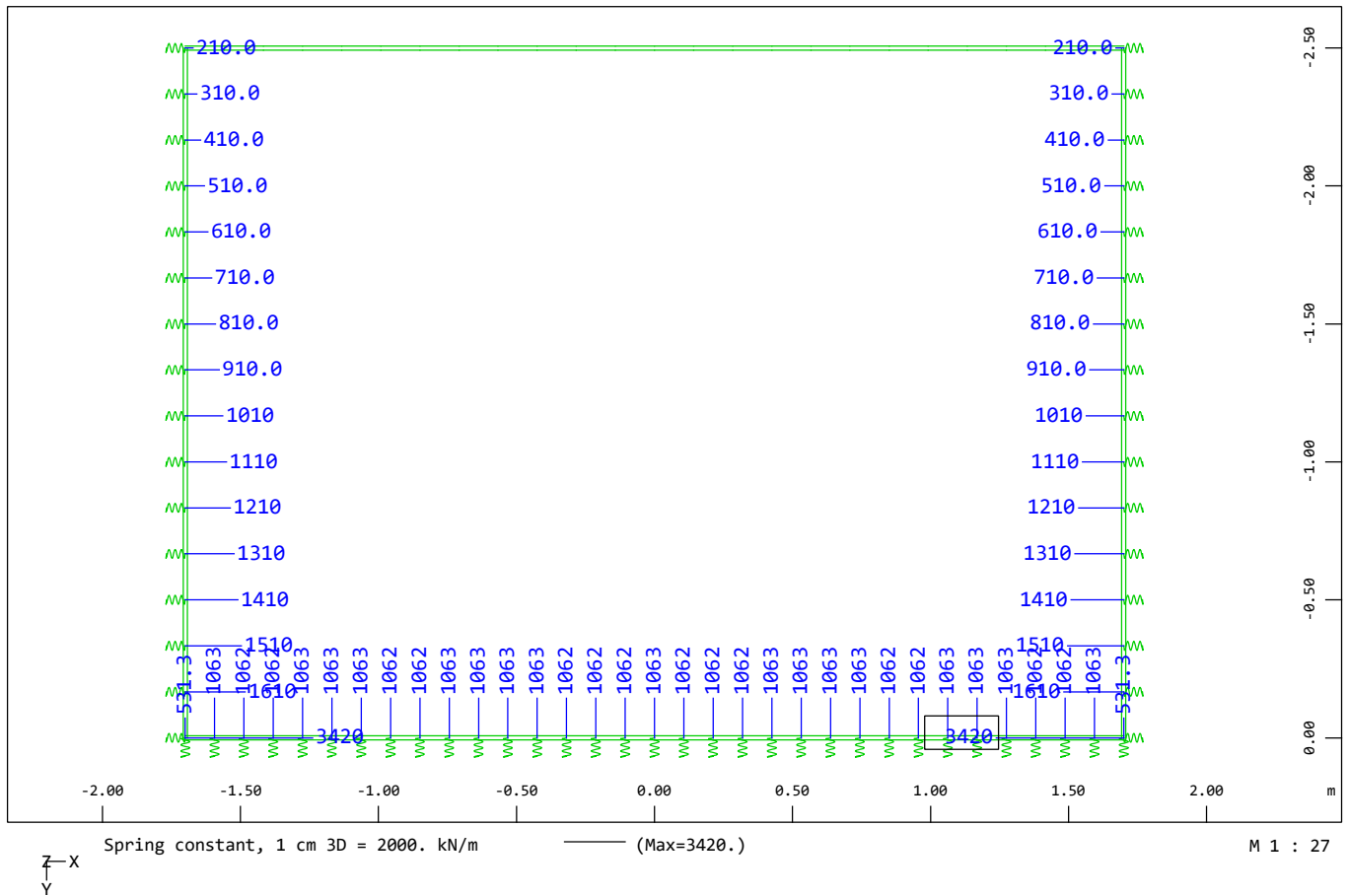
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- ΑΓΩΓΟΣ Α3 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



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- ΑΓΩΓΟΣ Α3 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



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- ΑΓΩΓΟΣ Α3 -
ΑΠΕΙΚΟΝΙΣΗ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΜΟΙΩΜΑΤΟΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

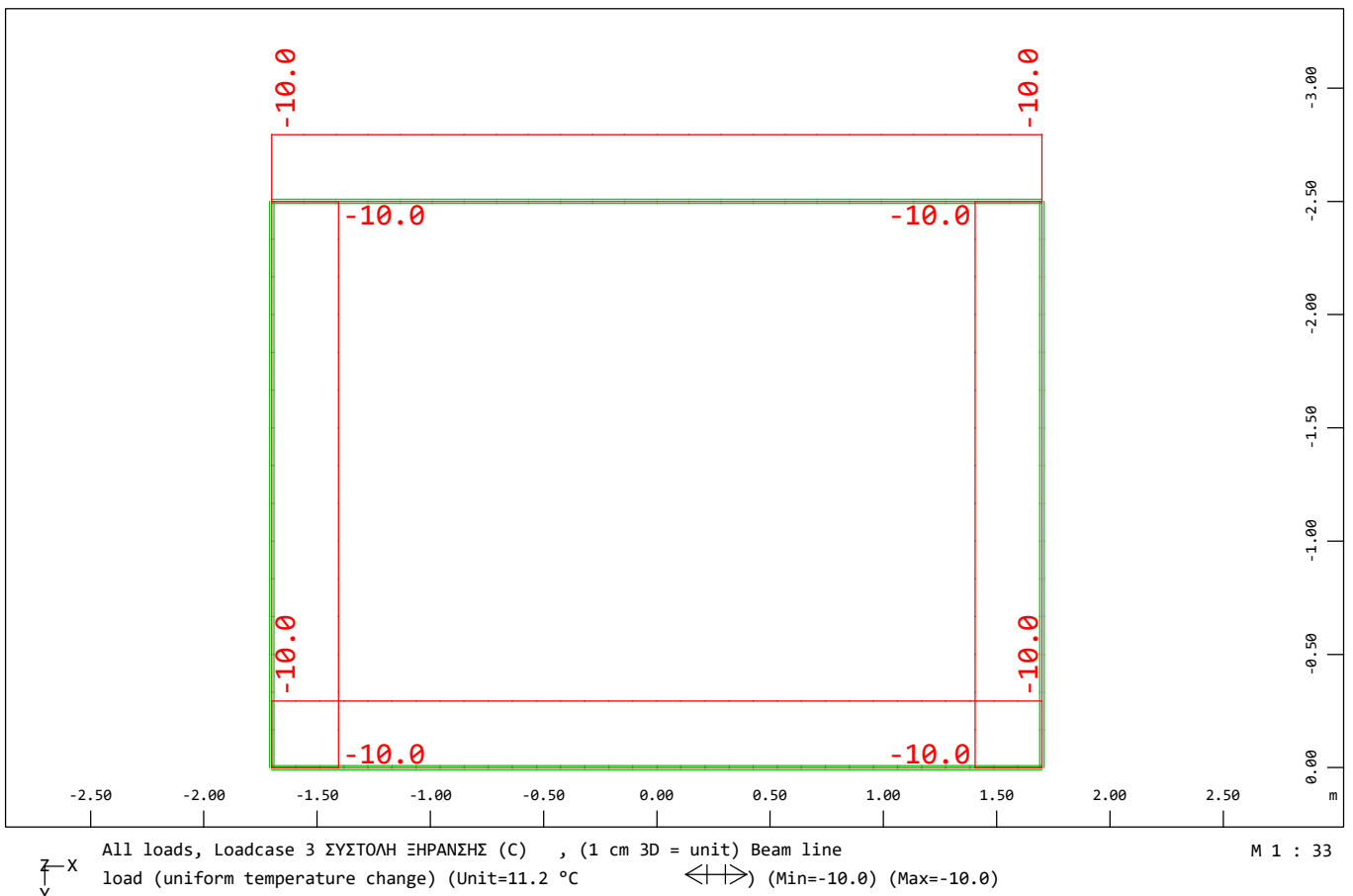
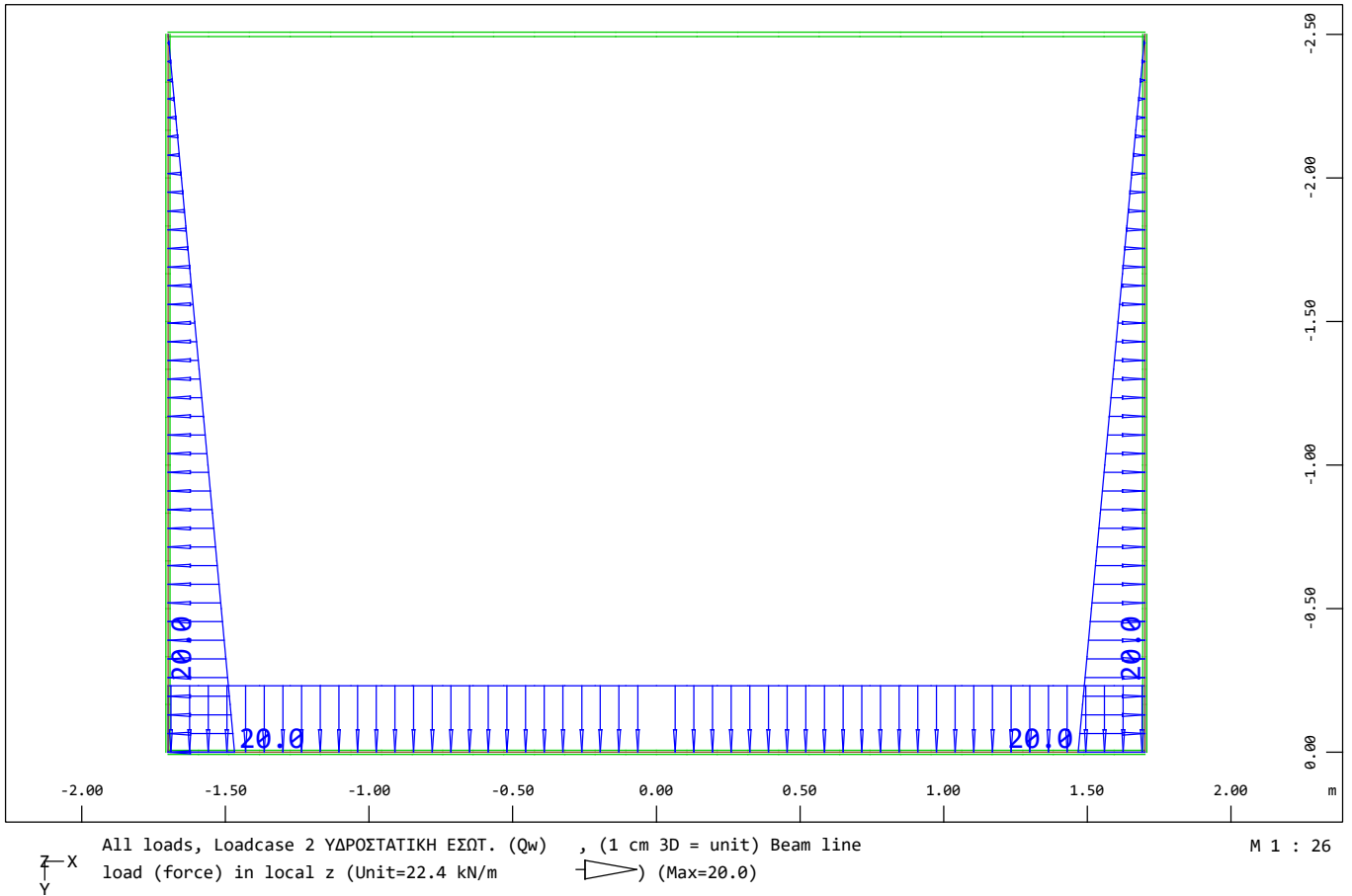
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ΟΡΙΣΜΟΣ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

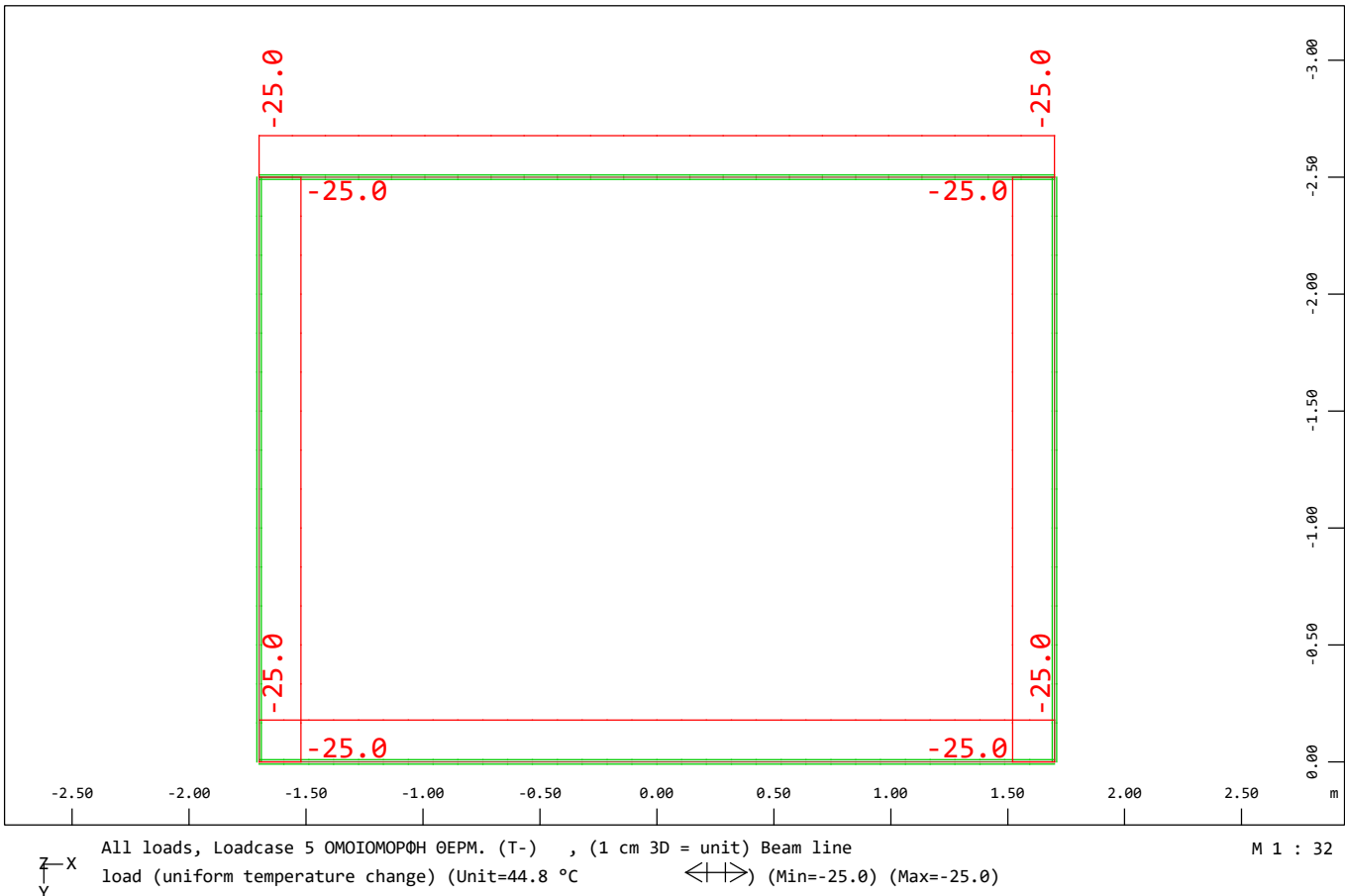
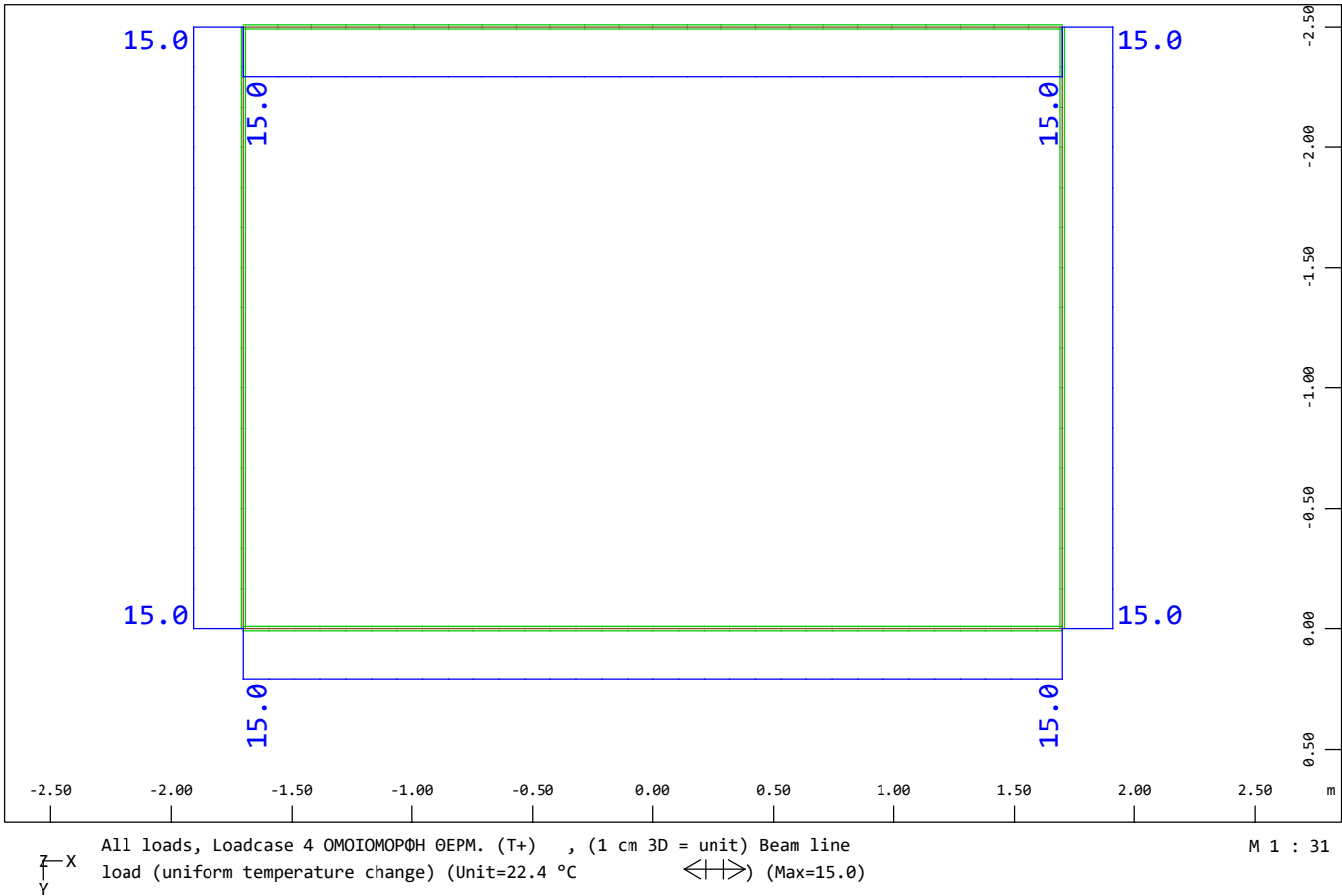
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 - ΑΓΩΓΟΣ Α3 -
 ΠΕΡΙΓΡΑΦΗ ΒΑΣΙΚΩΝ ΦΟΡΤΙΣΕΩΝ

Load Case	1 ΙΔΙΟ ΒΑΡΟΣ (G)	
Factor forces and moments		1.000
Factor dead weight	DL-YY	1.000
Load Case	2 ΥΔΡΟΣΤΑΤΙΚΗ ΕΣΩΤ. (Qw)	
Factor forces and moments		1.000
Load Case	3 ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ (C)	
Factor forces and moments		1.000
Load Case	4 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T+)	
Factor forces and moments		1.000
Load Case	5 ΟΜΟΙΟΜΟΡΦΗ ΘΕΡΜ. (T-)	
Factor forces and moments		1.000
Load Case	6 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT+)	
Factor forces and moments		1.000
Load Case	7 ΚΑΜΠΤΙΚΗ ΘΕΡΜ. (dT-)	
Factor forces and moments		1.000
Load Case	21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Hεπ.=7.8) (R2)	
Factor forces and moments		1.000
Load Case	22 ΚΙΝΗΤΑ (Hεπ.=7.8) (Q2)	
Factor forces and moments		1.000

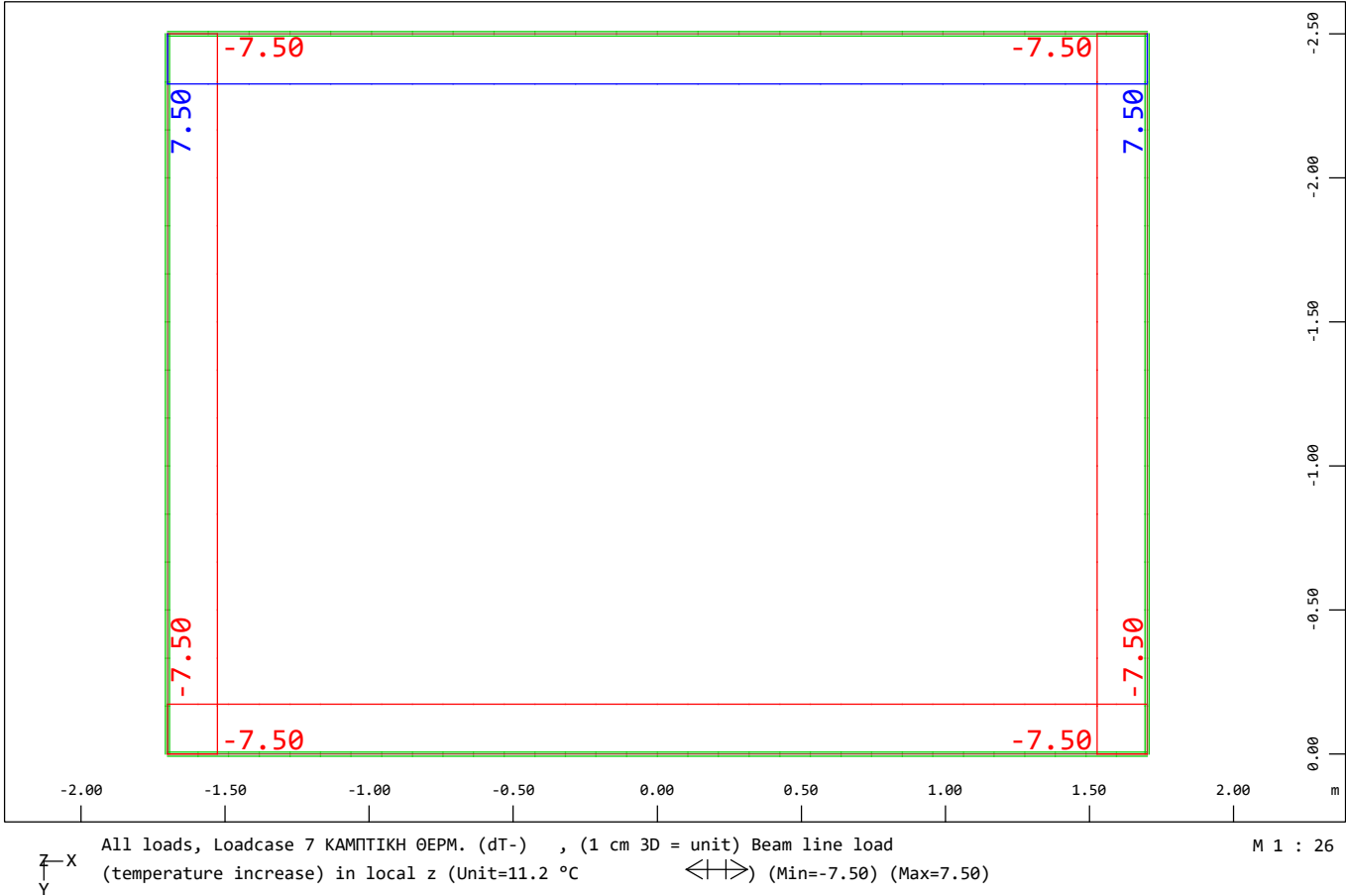
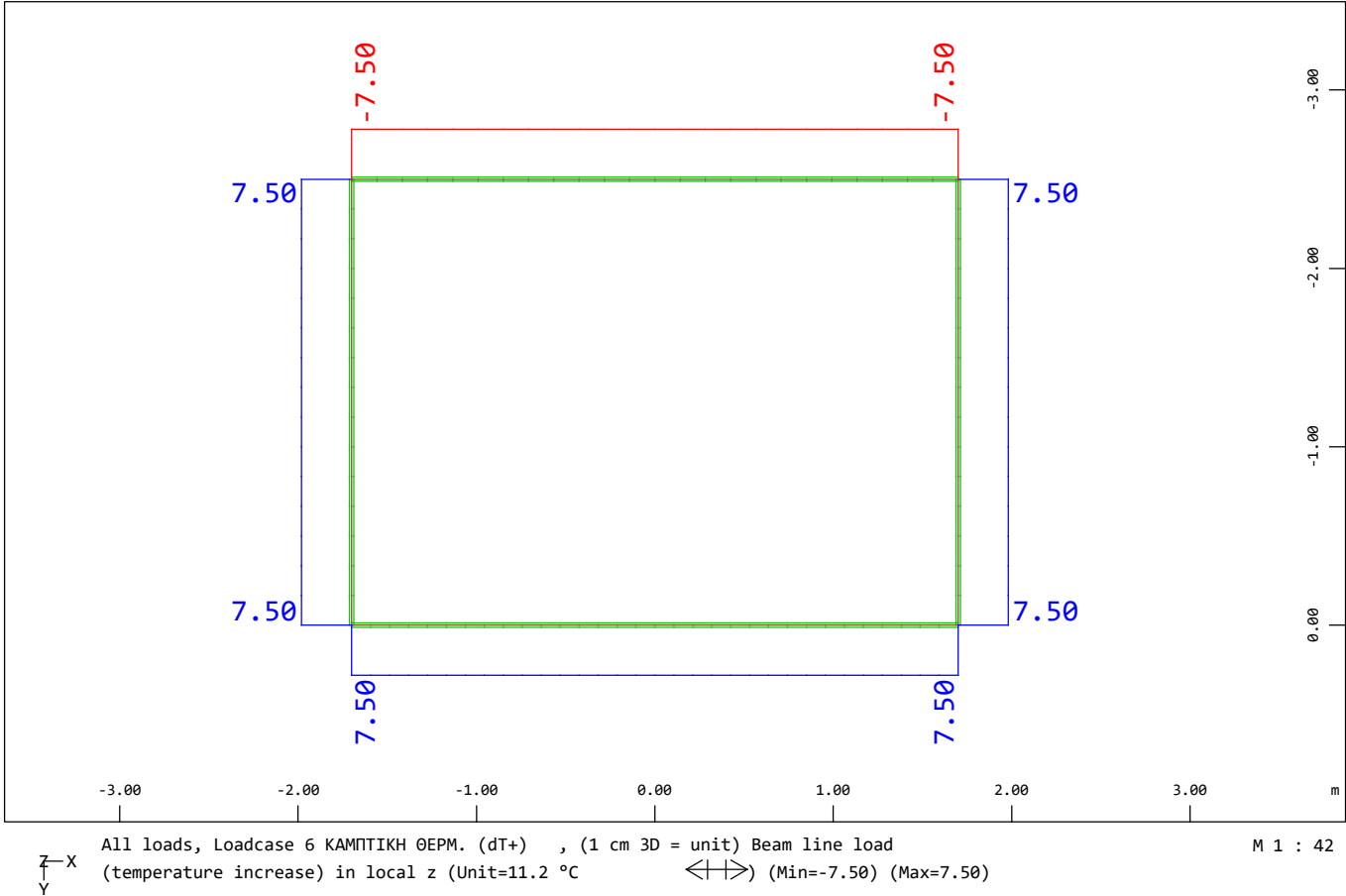
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- ΑΓΩΓΟΣ Α3 -
ΥΔΡΟΣΤΑΤΙΚΗ ΠΙΕΣΗ & ΣΥΣΤΟΛΗ ΞΗΡΑΝΣΗΣ



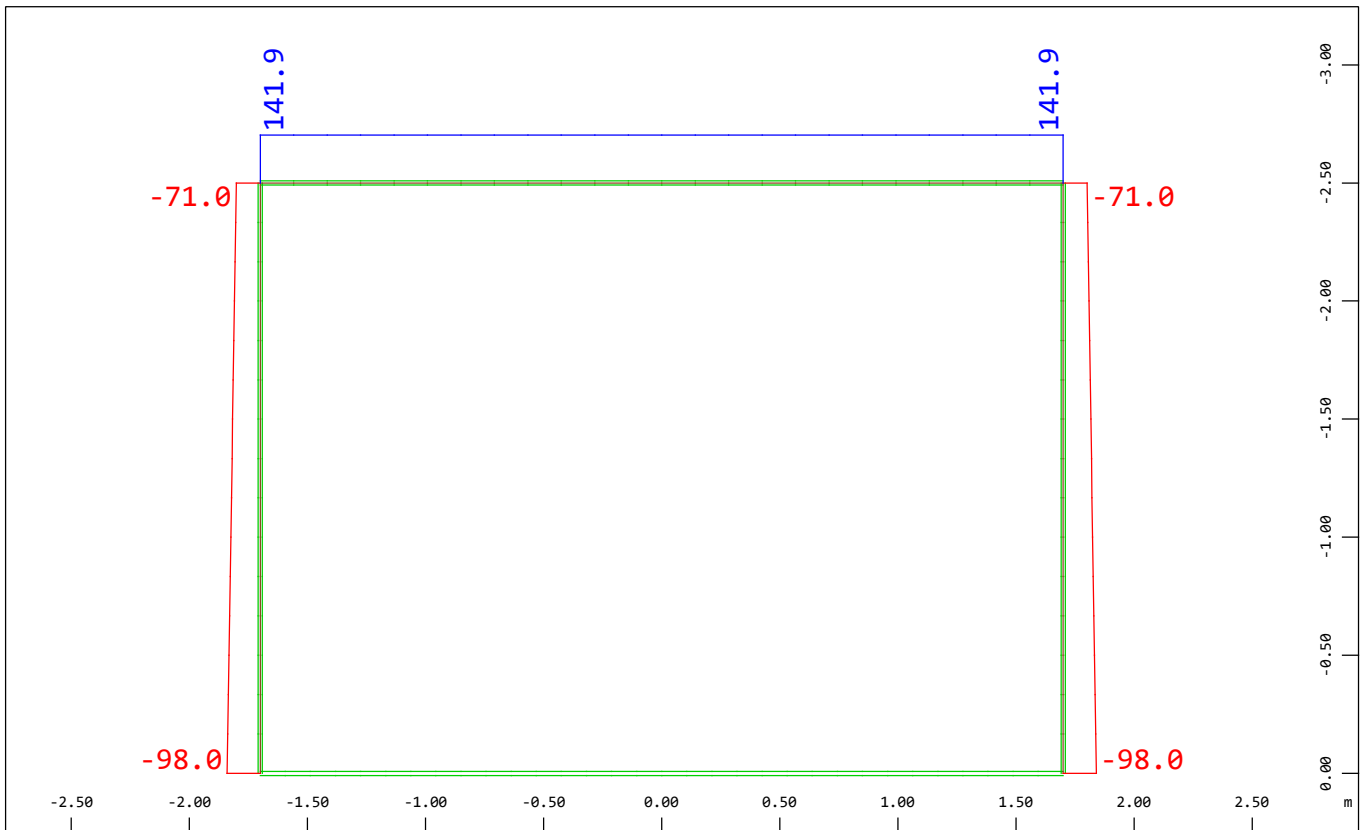
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 - ΑΓΩΓΟΣ Α3 -
 ΦΟΡΤΙΑ ΟΜΟΙΟΜΟΡΦΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ T+ & T-



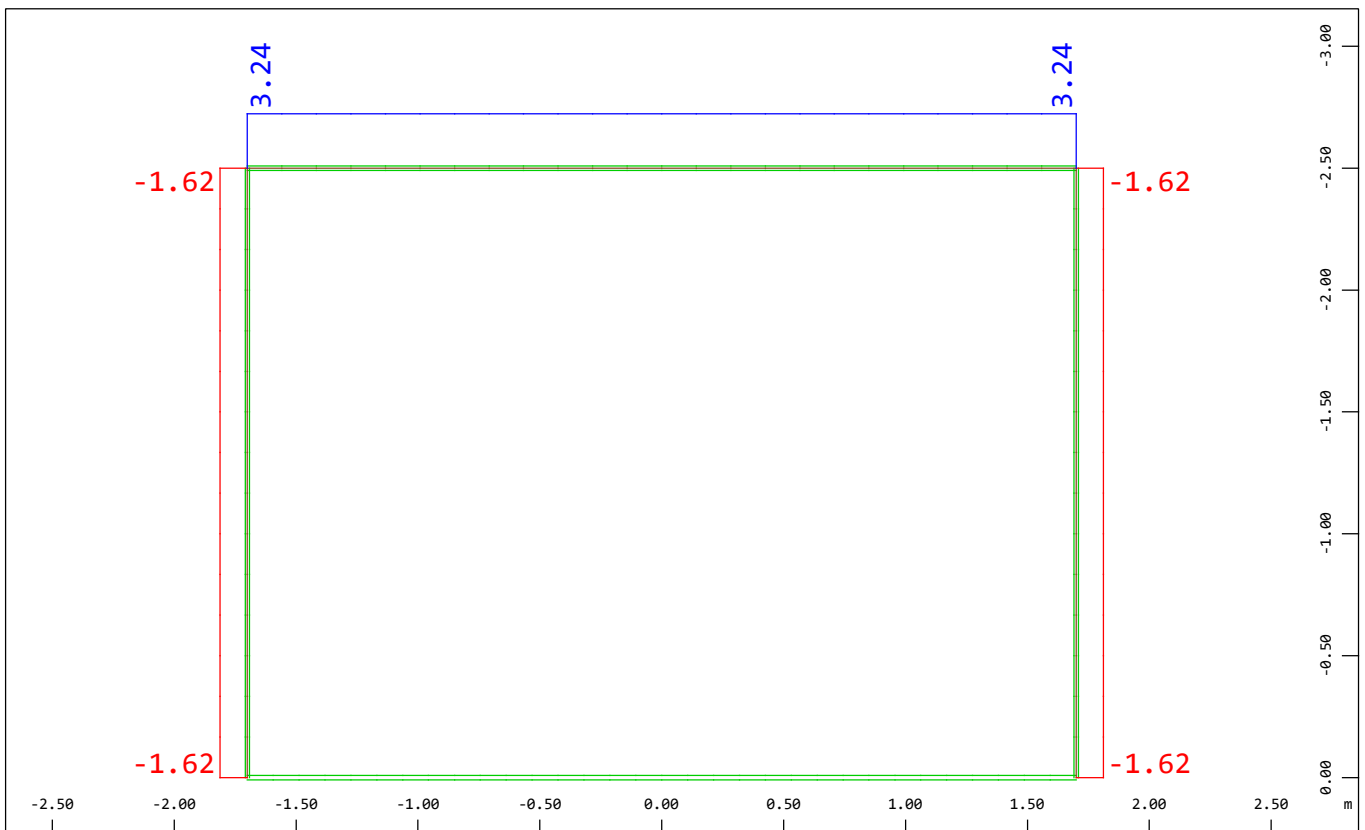
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 - ΑΓΩΓΟΣ Α3 -
 ΦΟΡΤΙΑ ΚΑΜΠΤΙΚΗΣ ΘΕΡΜΟΚΡΑΣΙΑΣ dT+ & dT-



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΠΤΩΣΗ 2: ΥΨΟΣ ΕΠΙΧΩΜΑΤΟΣ 7.8μ / ΩΘΗΣΕΙΣ ΓΑΙΩΝ & ΚΙΝΗΤΑ



All loads, Loadcase 21 ΩΘΗΣΕΙΣ ΓΑΙΩΝ (Heπ.=7.8) (R2) , (1 cm 3D = unit)
Beam line load (force) in local z (Unit=224.2 kN/m,Min=-97.9 Max=-70.9)
load (force) in global Y (Unit=224.2 kN/m,Max=141.9)
M 1 : 32



All loads, Loadcase 22 ΚΙΝΗΤΑ (Heπ.=7.8) (Q2) , (1 cm 3D = unit) Beam line load (force)
in local z (Unit=4.48 kN/m,Min=-1.62 Max=-1.62)
load (force) in global Y (Unit=4.48 kN/m,Max=3.24)
M 1 : 31

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΣΥΝΔΥΑΣΜΟΙ ΦΟΡΤΙΣΕΩΝ ΣΧΕΔΙΑΣΜΟΥ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	100 1.35G+C			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Load Case	201 1.35(G+R2)+C			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	202 G+1.35R2+C			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	203 1.35G+R2+C			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	204 1.35(G+R2)+C+1.2W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	205 G+1.35R2+C+1.2W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Load Case	206 1.35G+R2+C+1.2W			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Load Case	207 1.35(G+R2)+C+1.5Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Load Case	208 G+1.35R2+C+1.5Q2			
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 209 1.35G+R2+C+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 210 1.35(G+R2)+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 211 G+1.35R2+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 212 1.35G+R2+C+1.2W+1.5Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	

Load Case 213 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 214 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 215 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	4 with factor	0.750	

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 216 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 217 G+1.35R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 218 1.35G+R2+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 4 with factor 0.750

Load Case 219 1.35(G+R2)+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 220 G+1.35R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 221 1.35G+R2+C+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

Load Case 222 1.35(G+R2)+C+1.2W+1.5Q2+0.75T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 22 with factor 1.500
 Selected loads copied from load case 5 with factor 0.750

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 223 $G+1.35R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 224 $1.35G+R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	5 with factor	0.750	

Load Case 225 $1.35(G+R_2)+C+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 226 $G+1.35R_2+C+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 227 $1.35G+R_2+C+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 228 $1.35(G+R_2)+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 229 $G+1.35R_2+C+1.2W+1.5Q_2+0.75T$				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 230 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	6 with factor	0.750	

Load Case 231 1.35(G+R2)+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 232 G+1.35R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 233 1.35G+R2+C+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 234 1.35(G+R2)+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 235 G+1.35R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

Load Case 236 1.35G+R2+C+1.2W+1.5Q2+0.75T				
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.500	
Selected loads	copied from load case	7 with factor	0.750	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 237 1.35(G+R2)+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 238 G+1.35R2+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 239 1.35G+R2+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 241 G+1.35R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 242 1.35G+R2+C+1.2W+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	4 with factor	1.500	

Load Case 243 1.35(G+R2)+C+0.9Q2+1.5T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.350		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	244	$G+1.35R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	245	$1.35G+R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	246	$1.35(G+R_2)+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	247	$G+1.35R_2+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	248	$1.35G+R_2+C+1.2W+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		2 with factor	1.200
Selected loads	copied from load case		21 with factor	1.000
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		5 with factor	1.500

Load Case	249	$1.35(G+R_2)+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

Load Case	250	$G+1.35R_2+C+0.9Q_2+1.5T$		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case		3 with factor	1.000
Selected loads	copied from load case		21 with factor	1.350
Selected loads	copied from load case		22 with factor	0.900
Selected loads	copied from load case		6 with factor	1.500

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	251	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	252	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	253	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	254	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	6 with factor	1.500	

Load Case	255	1.35(G+R2)+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	256	G+1.35R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	257	1.35G+R2+C+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	258	1.35(G+R2)+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	259	G+1.35R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	260	1.35G+R2+C+1.2W+0.9Q2+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	0.900	
Selected loads	copied from load case	7 with factor	1.500	

Load Case	261	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	262	G+1.35R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	263	1.35G+R2+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.500	

Load Case	264	1.35(G+R2)+C+1.2W+1.5T		
Factor forces and moments			1.000	
Factor dead weight		DL-YY	1.350	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.350	
Selected loads	copied from load case	5 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case 265 G+1.35R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 5 with factor 1.500

Load Case 266 1.35G+R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 5 with factor 1.500

Load Case 267 1.35(G+R2)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 268 G+1.35R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 6 with factor 1.500

Load Case 269 1.35G+R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.000
 Selected loads copied from load case 6 with factor 1.500

Load Case 270 1.35(G+R2)+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 271 G+1.35R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.000
 Selected loads copied from load case 3 with factor 1.000
 Selected loads copied from load case 2 with factor 1.200
 Selected loads copied from load case 21 with factor 1.350
 Selected loads copied from load case 7 with factor 1.500

Load Case 272 1.35G+R2+C+1.2W+1.5T
 Factor forces and moments 1.000
 Factor dead weight DL-YY 1.350

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΑΣΤΟΧΙΑΣ

Load Case	272	1.35G+R2+C+1.2W+1.5T		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	2 with factor	1.200	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	7 with factor	1.500	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 400 G+C				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Load Case 421 G+C+R2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case 422 G+C+R2+W				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Load Case 423 G+C+R2+Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case 424 G+C+R2+W+Q2				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	2 with factor	1.000	
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	22 with factor	1.000	
Load Case 425 G+C+R2+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	4 with factor	1.000	
Load Case 426 G+C+R2+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	5 with factor	1.000	
Load Case 427 G+C+R2+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	
Selected loads	copied from load case	6 with factor	1.000	
Load Case 428 G+C+R2+T				
Factor forces and moments		1.000		
Factor dead weight	DL-YY	1.000		
Selected loads	copied from load case	3 with factor	1.000	
Selected loads	copied from load case	21 with factor	1.000	

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΙ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ

Load Case 428 G+C+R2+T
Selected loads copied from load case 7 with factor 1.000

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

Analysis parameters

Calculation with nonlinear material properties

Nonlinear material properties are used for:

Springelements[CRAC,YIEL,MUE,GAP], pilebedding, QUAD-bedding

Only linear material properties are used for:

QUAD- and BRIQ-elements

Truss-, cable-, Beam-, pile- und boundaryelements

Beamelements

Considered Load Cases

Loadcase	Σ(Reactions)		Designation
	X[kN]	Y[kN]	
100	0.00	-182.25	1.35G+C
201	0.00	-833.57	1.35(G+R2)+C
202	0.00	-786.28	G+1.35R2+C
203	0.00	-664.71	1.35G+R2+C
204	0.00	-915.17	1.35(G+R2)+C+1.2W
205	0.00	-867.88	G+1.35R2+C+1.2W
206	0.00	-746.31	1.35G+R2+C+1.2W
207	0.00	-850.08	1.35(G+R2)+C+1.5Q2
208	0.00	-802.78	G+1.35R2+C+1.5Q2
209	0.00	-681.22	1.35G+R2+C+1.5Q2
210	0.00	-931.68	1.35(G+R2)+C+1.2W+1.5Q2
211	0.00	-884.38	G+1.35R2+C+1.2W+1.5Q2
212	0.00	-762.82	1.35G+R2+C+1.2W+1.5Q2
213	0.00	-850.08	1.35(G+R2)+C+1.5Q2+0.75T
214	0.00	-802.83	G+1.35R2+C+1.5Q2+0.75T
215	0.00	-681.22	1.35G+R2+C+1.5Q2+0.75T
216	0.00	-931.68	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	0.00	-884.43	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	0.00	-762.82	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	0.00	-850.08	1.35(G+R2)+C+1.5Q2+0.75T
220	0.00	-802.66	G+1.35R2+C+1.5Q2+0.75T
221	0.00	-681.22	1.35G+R2+C+1.5Q2+0.75T
222	0.00	-931.68	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	0.00	-884.26	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	0.00	-762.82	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	0.00	-850.08	1.35(G+R2)+C+1.5Q2+0.75T
226	0.00	-802.78	G+1.35R2+C+1.5Q2+0.75T
227	0.00	-681.22	1.35G+R2+C+1.5Q2+0.75T
228	0.00	-931.68	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	0.00	-884.38	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	0.00	-762.82	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	0.00	-850.08	1.35(G+R2)+C+1.5Q2+0.75T
232	0.00	-802.78	G+1.35R2+C+1.5Q2+0.75T
233	0.00	-681.22	1.35G+R2+C+1.5Q2+0.75T
234	0.00	-931.68	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	0.00	-884.38	G+1.35R2+C+1.2W+1.5Q2+0.75T
236	0.00	-762.82	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	0.00	-843.47	1.35(G+R2)+C+0.9Q2+1.5T
238	0.00	-796.18	G+1.35R2+C+0.9Q2+1.5T
239	0.00	-674.61	1.35G+R2+C+0.9Q2+1.5T
240	0.00	-925.07	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	0.00	-877.78	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	0.00	-756.21	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	0.00	-843.47	1.35(G+R2)+C+0.9Q2+1.5T
244	0.00	-796.05	G+1.35R2+C+0.9Q2+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΜΗ-ΓΡΑΜΜΙΚΗ ΕΠΙΛΥΣΗ ΣΥΝΔΥΑΣΜΩΝ

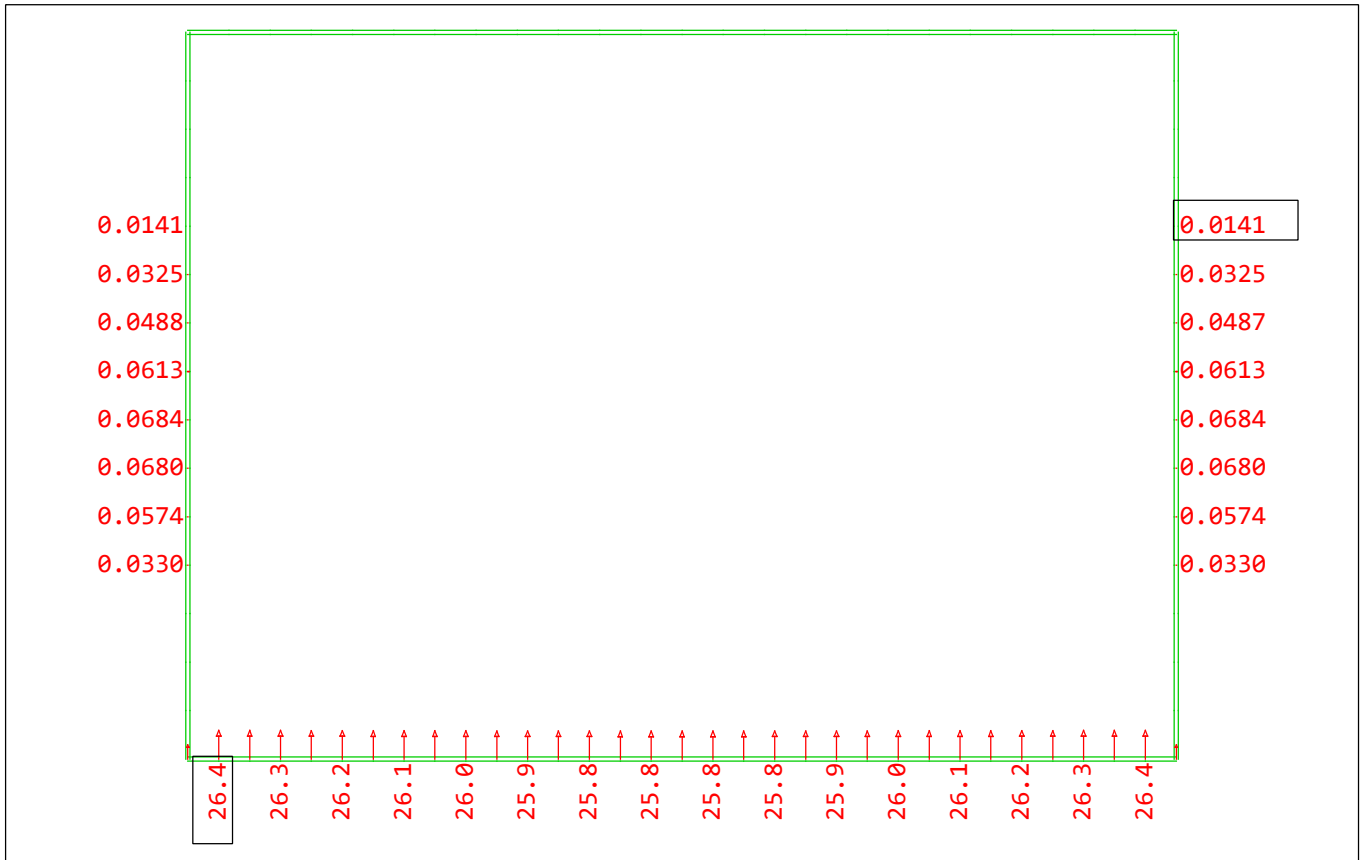
245	0.00	-674.61	1.35G+R2+C+0.9Q2+1.5T
246	0.00	-925.07	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	0.00	-877.65	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	0.00	-756.21	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	0.00	-843.47	1.35(G+R2)+C+0.9Q2+1.5T
250	0.00	-796.18	G+1.35R2+C+0.9Q2+1.5T
251	0.00	-674.61	1.35G+R2+C+0.9Q2+1.5T
252	0.00	-925.07	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	0.00	-877.78	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	0.00	-756.21	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	0.00	-843.47	1.35(G+R2)+C+0.9Q2+1.5T
256	0.00	-796.18	G+1.35R2+C+0.9Q2+1.5T
257	0.00	-674.61	1.35G+R2+C+0.9Q2+1.5T
258	0.00	-925.07	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	0.00	-877.78	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	0.00	-756.21	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	0.00	-915.17	1.35(G+R2)+C+1.2W+1.5T
262	0.00	-867.88	G+1.35R2+C+1.2W+1.5T
263	0.00	-746.31	1.35G+R2+C+1.2W+1.5T
264	0.00	-915.17	1.35(G+R2)+C+1.2W+1.5T
265	0.00	-867.75	G+1.35R2+C+1.2W+1.5T
266	0.00	-746.31	1.35G+R2+C+1.2W+1.5T
267	0.00	-915.17	1.35(G+R2)+C+1.2W+1.5T
268	0.00	-867.88	G+1.35R2+C+1.2W+1.5T
269	0.00	-746.31	1.35G+R2+C+1.2W+1.5T
270	0.00	-915.17	1.35(G+R2)+C+1.2W+1.5T
271	0.00	-867.88	G+1.35R2+C+1.2W+1.5T
272	0.00	-746.31	1.35G+R2+C+1.2W+1.5T
400	-0.00	-134.96	G+C
421	0.00	-617.42	G+C+R2
422	0.00	-685.42	G+C+R2+W
423	0.00	-628.42	G+C+R2+Q2
424	0.00	-696.42	G+C+R2+W+Q2
425	0.00	-617.48	G+C+R2+T
426	0.00	-617.29	G+C+R2+T
427	0.00	-617.42	G+C+R2+T
428	0.00	-617.42	G+C+R2+T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

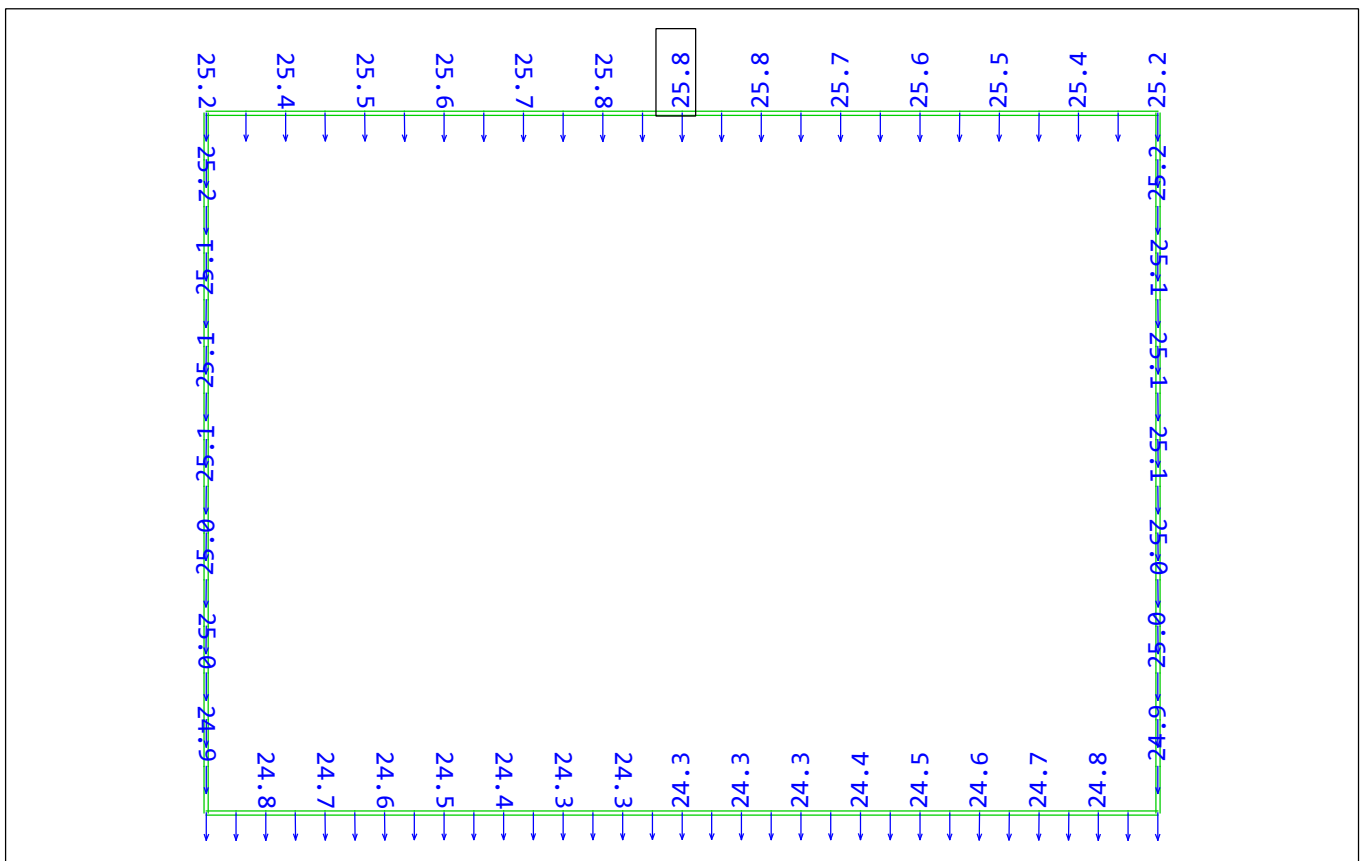
.

ΑΠΟΤΕΛΕΣΜΑΤΑ ΜΗ-ΓΡΑΜΜΙΚΗΣ ΕΠΙΛΥΣΗΣ ΣΥΝΔΥΑΣΜΩΝ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



Spring force, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 69.7 kN
(total: -834.3) (Min=-26.4) (Max=0)

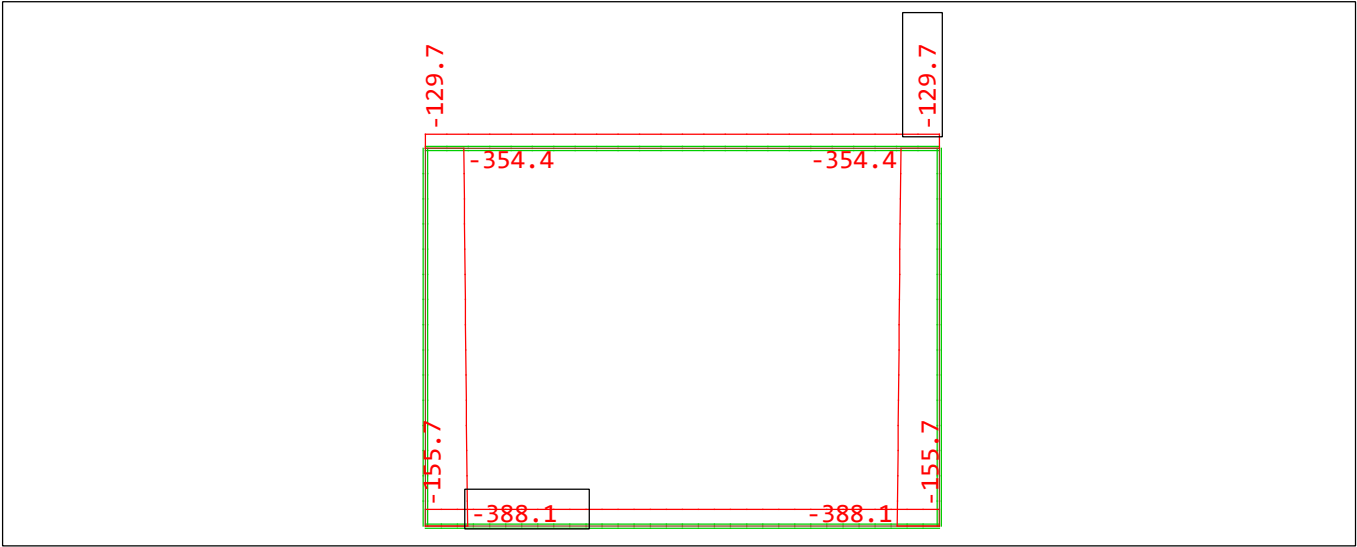


Nodal displacement vector, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 69.7 mm
(Max=25.8)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

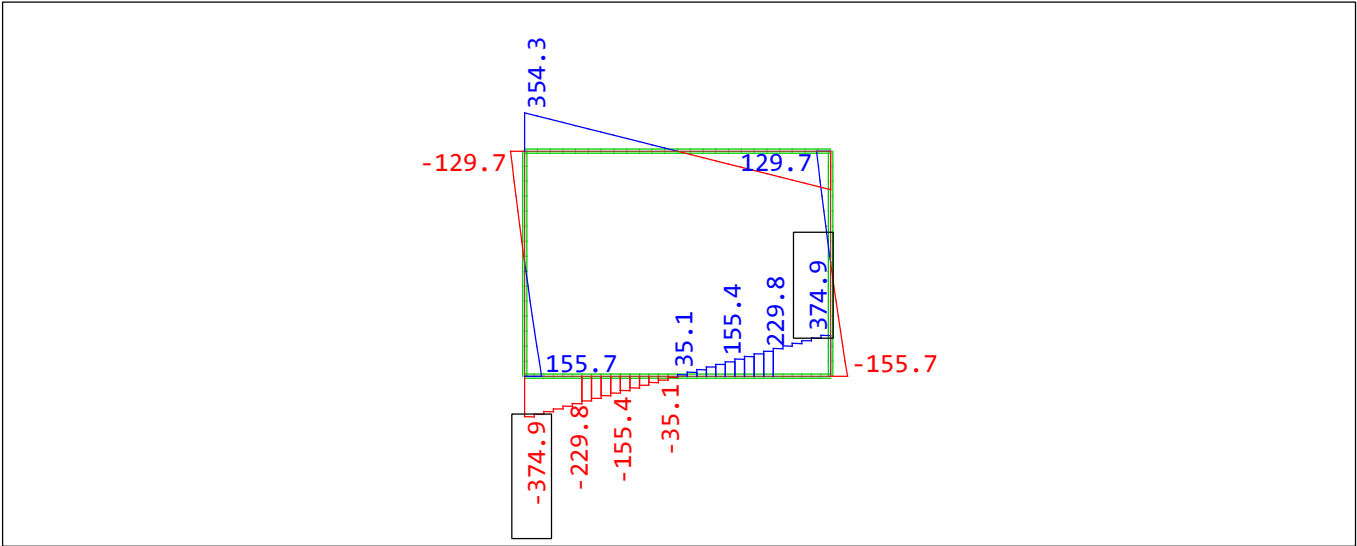
- ΑΓΩΓΟΣ Α3 -

ΣΥΝΔΥΑΣΜΟΣ:201 1.35(G+R2)+C / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



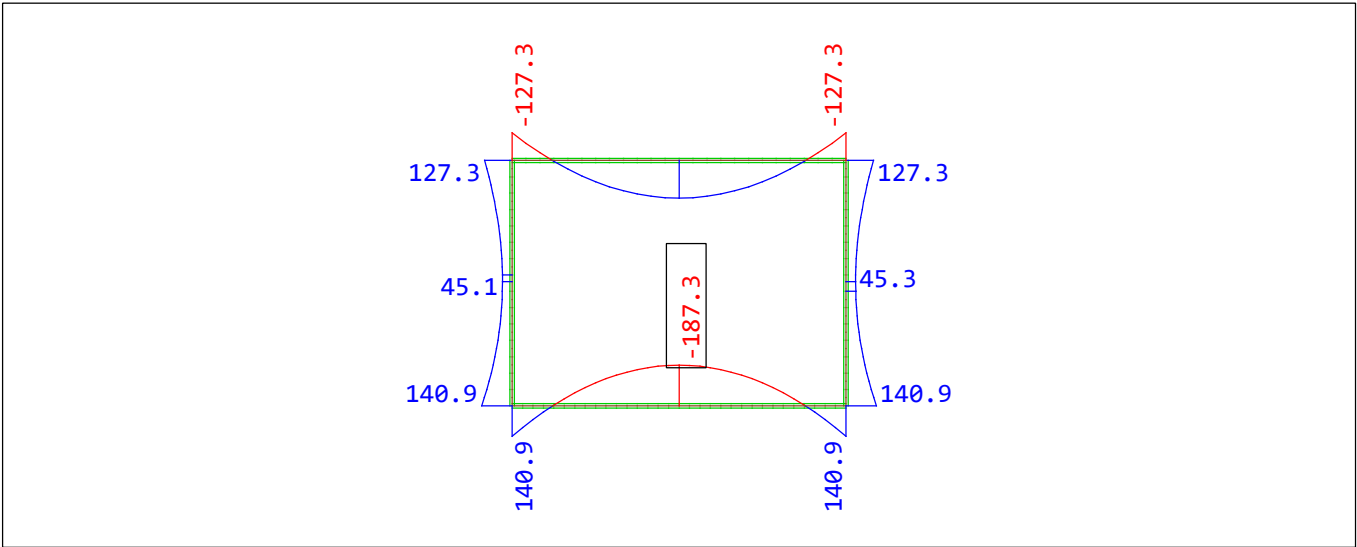
Beam Elements , Normal force Nx, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 696.9 kN

(Min=-388.1) (Max=-129.7)



Beam Elements , Shear force Vz, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 696.9 kN

(Min=-376.7) (Max=376.7)



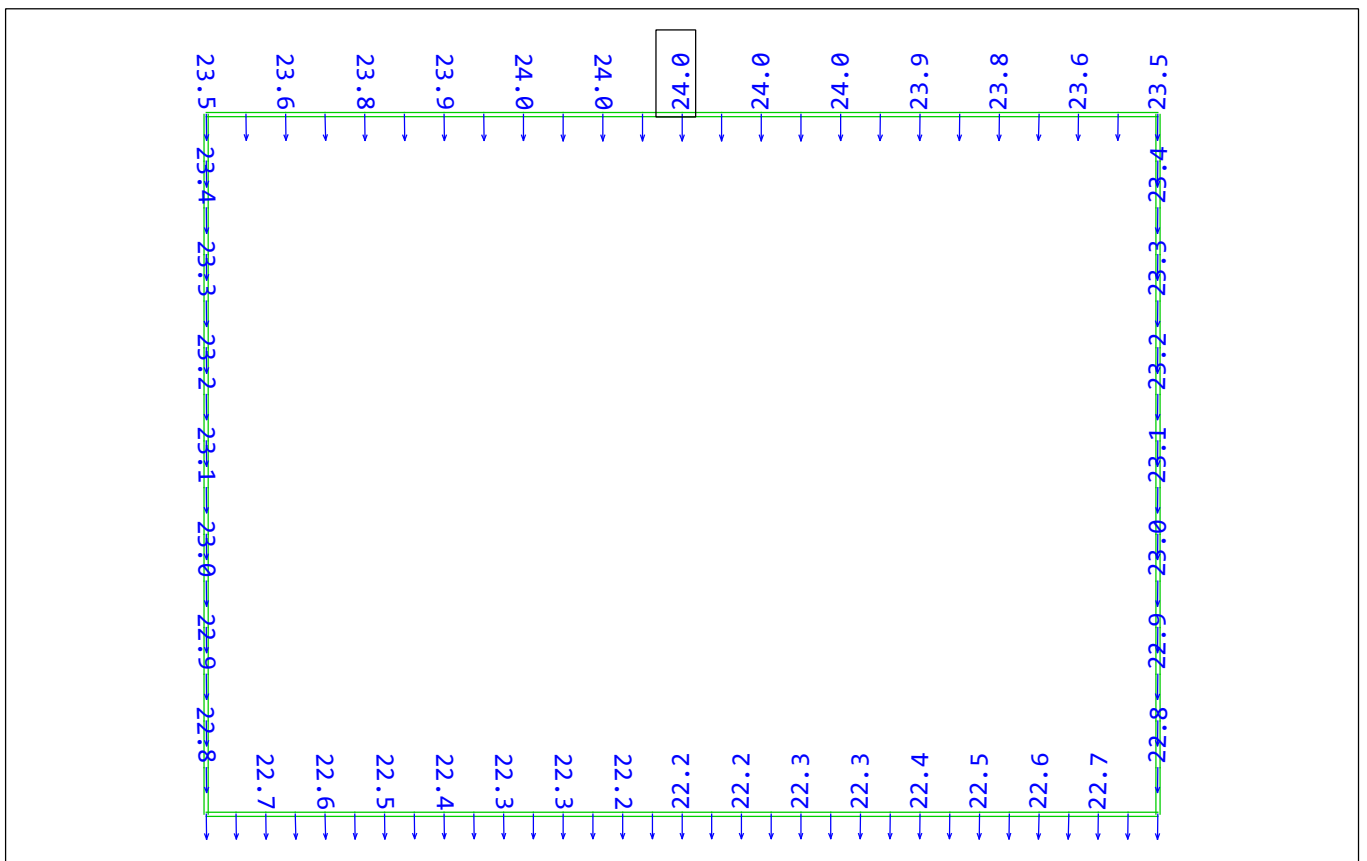
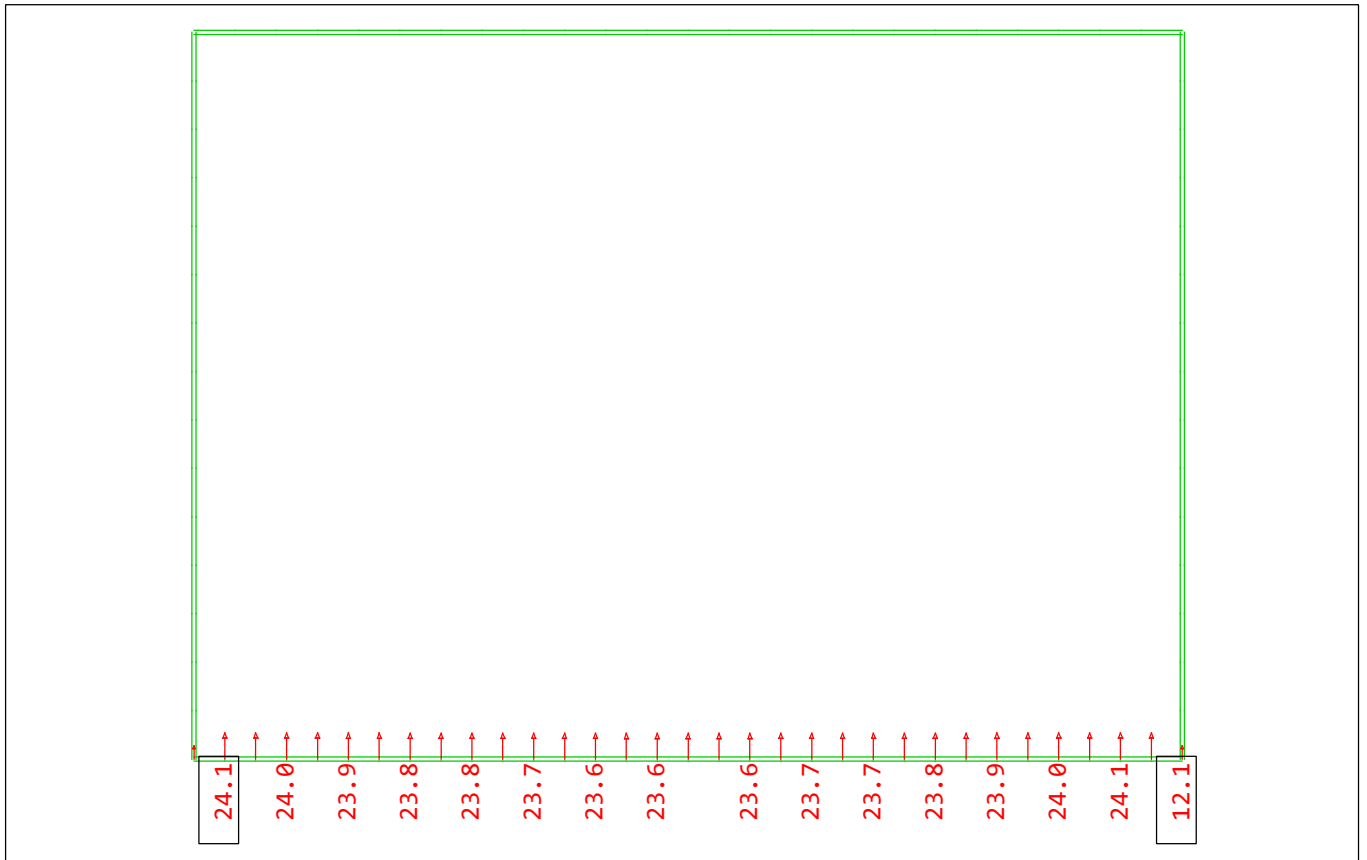
Beam Elements , Bending moment My, nonlinear Loadcase 201 1.35(G+R2)+C , 1 cm 3D = 348.4 kNm

(Min=-187.3) (Max=173.9)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

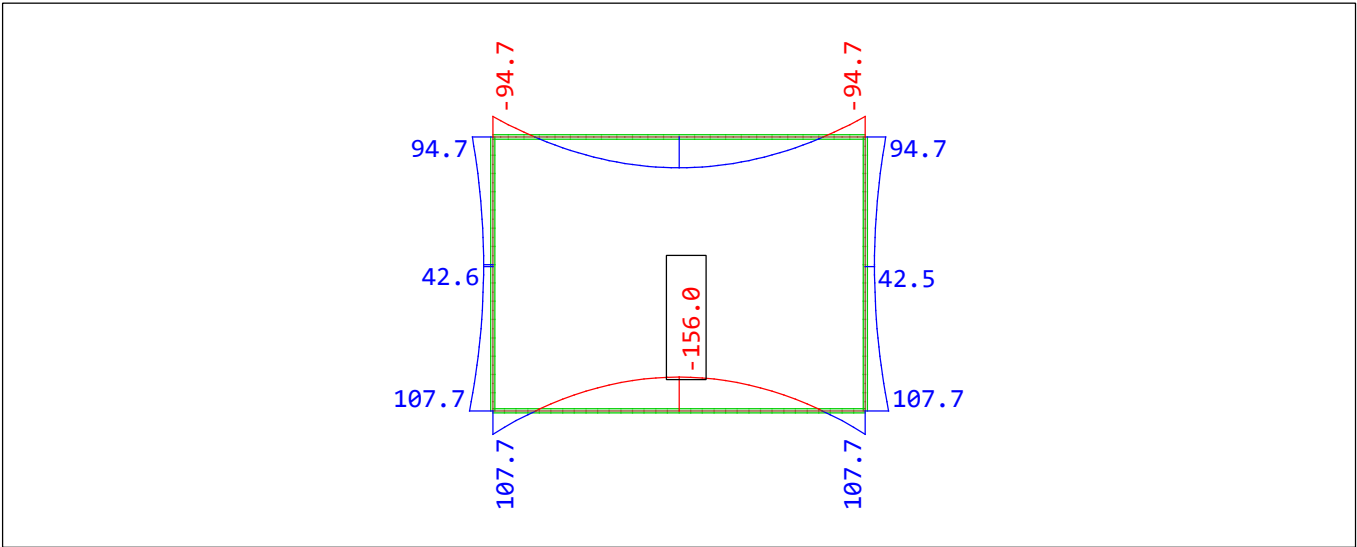
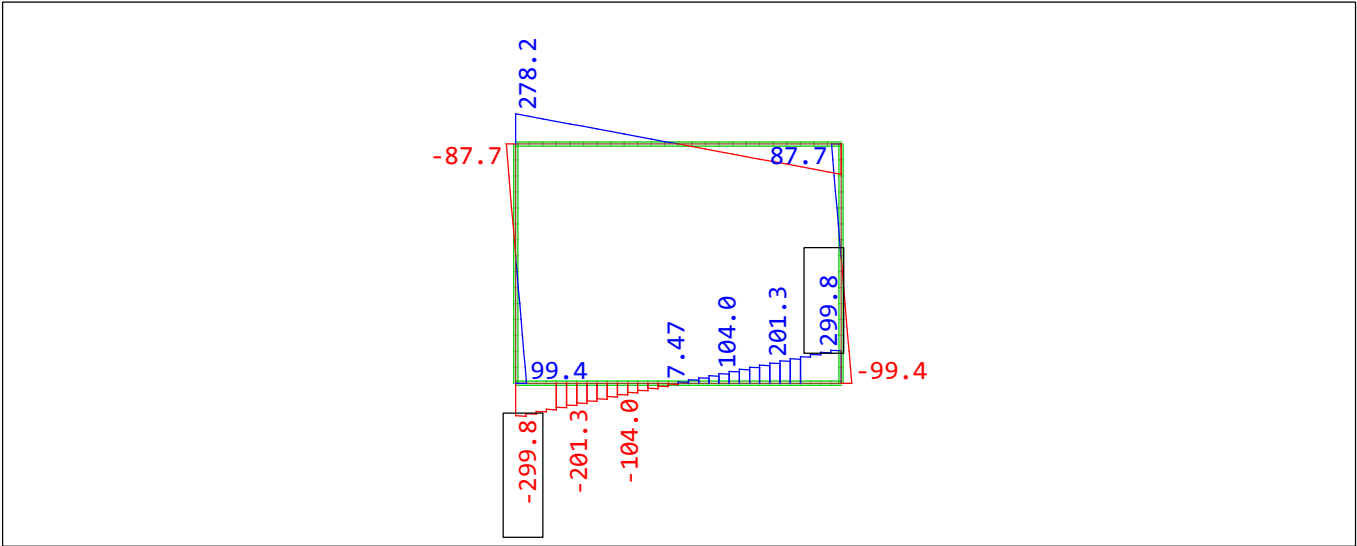
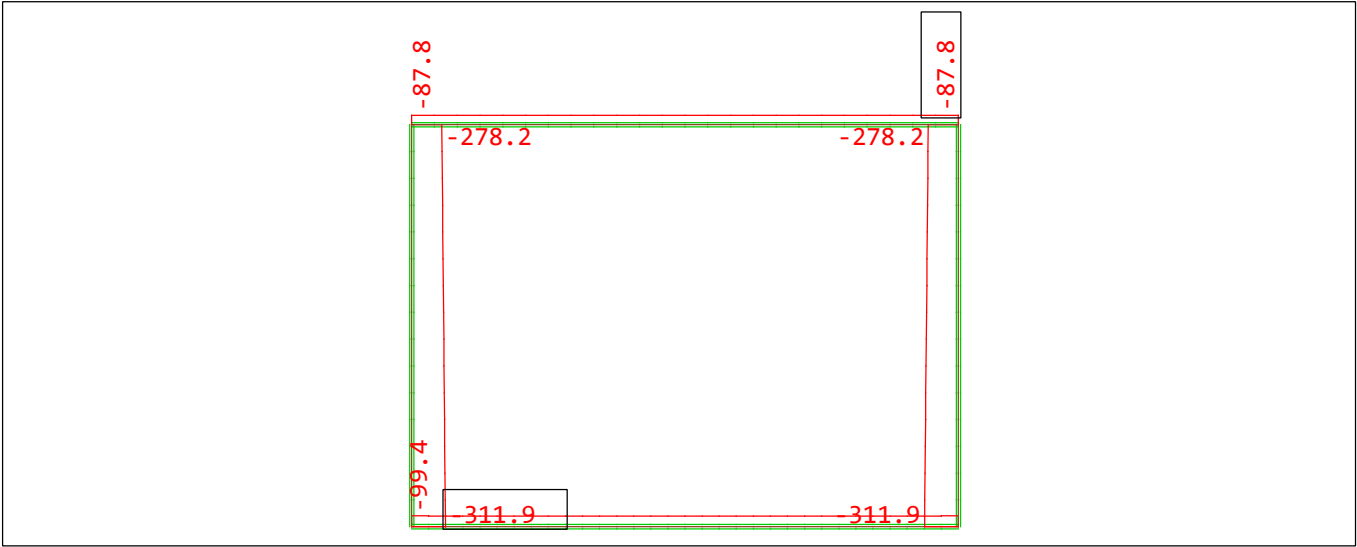
ΣΥΝΔΥΑΣΜΟΣ: 224 1.35G+R2+C+1.2W+1.5Q2+0.75T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

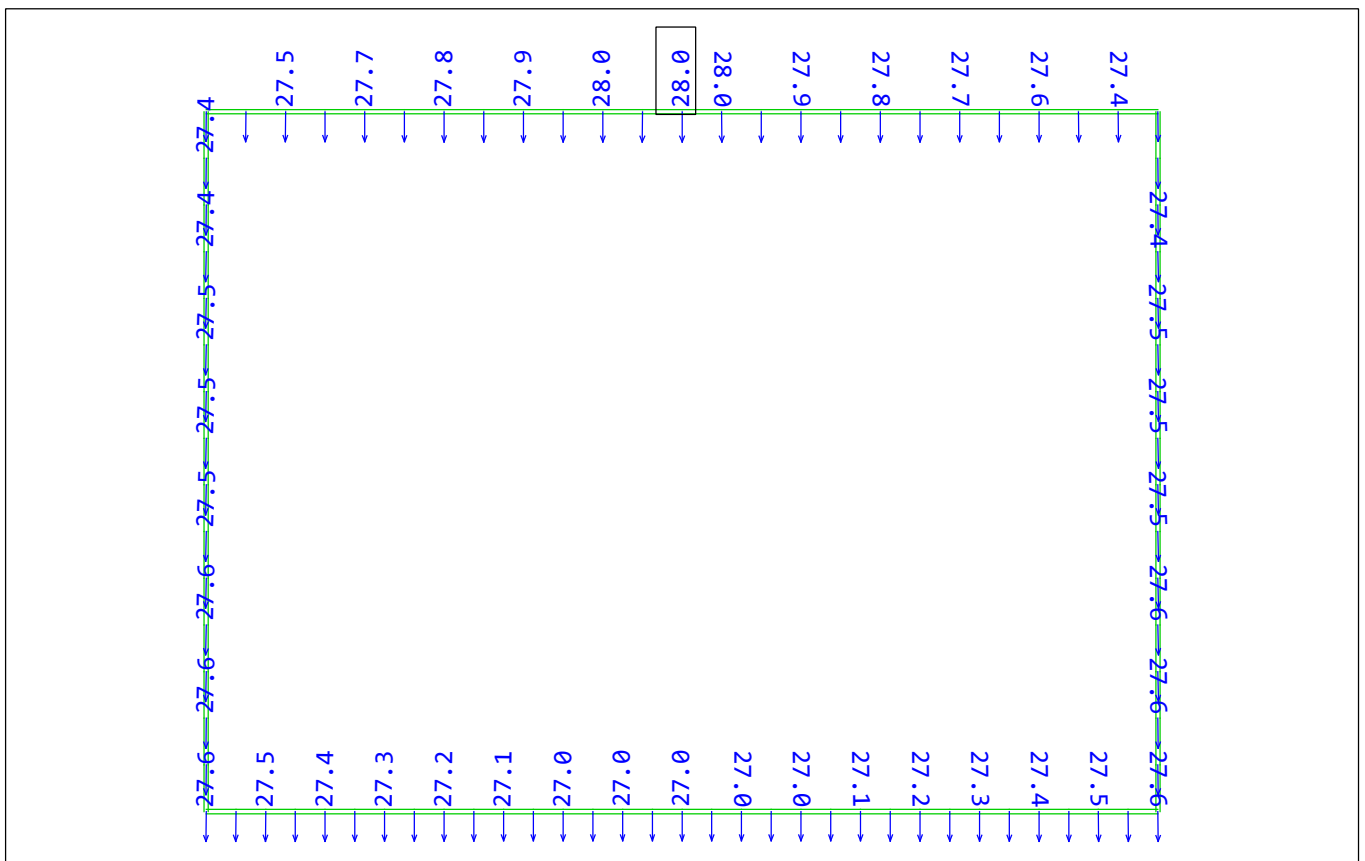
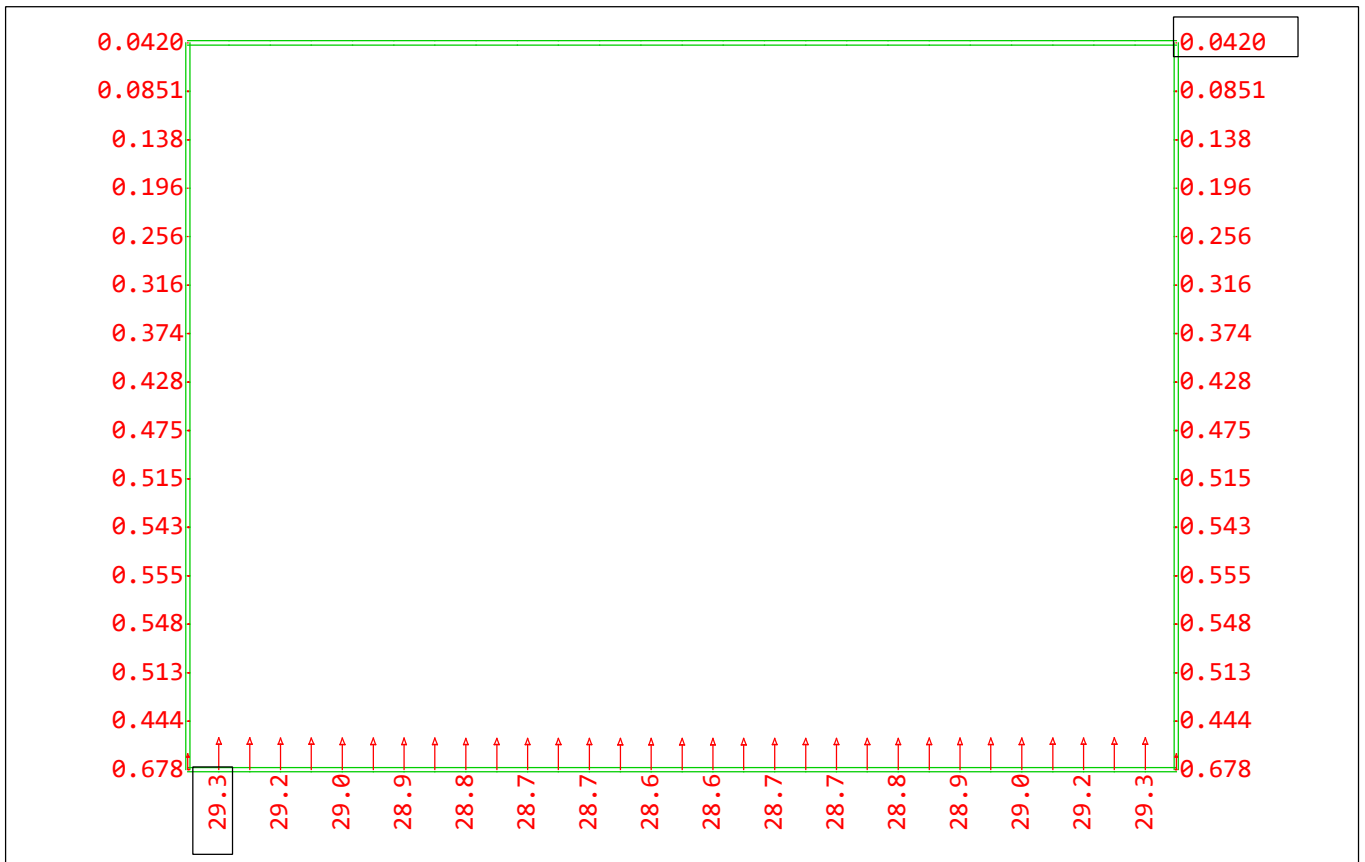
ΣΥΝΔΥΑΣΜΟΣ:224 1.35G+R2+C+1.2W+1.5Q2+0.75T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

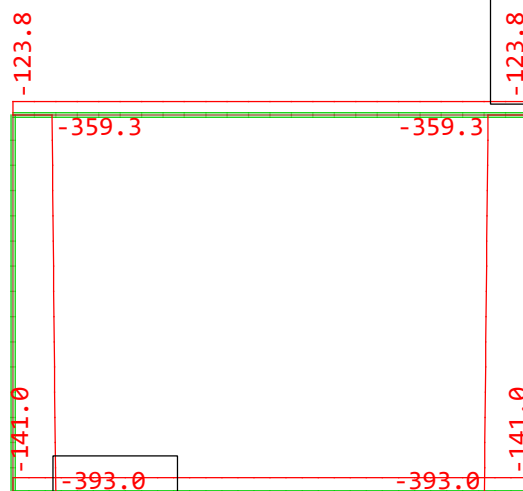
ΣΥΝΔΥΑΣΜΟΣ: 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



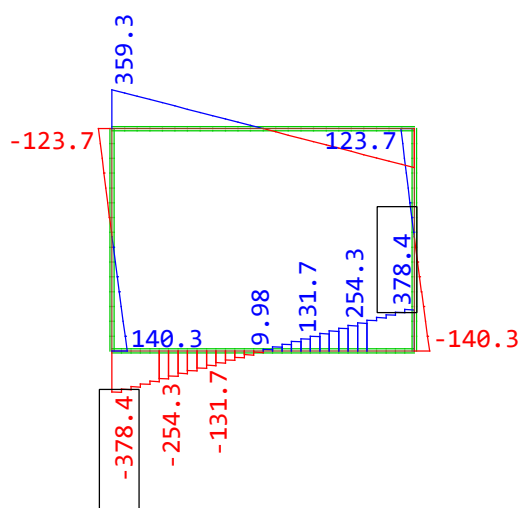
ΣΤΑΤΙΣΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

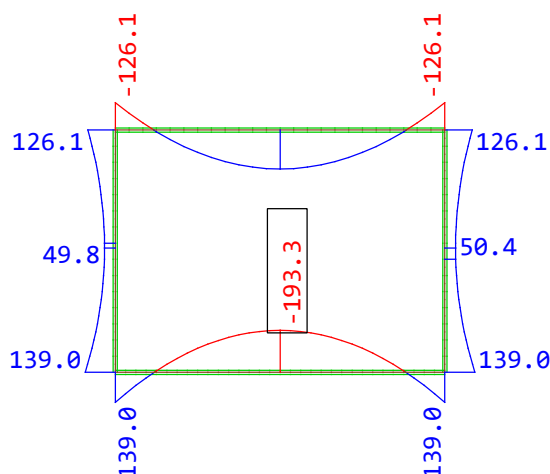
ΣΥΝΔΥΑΣΜΟΣ: 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T , 1 cm 3D =
 696.9 kN (Min=-393.0) (Max=-123.8)

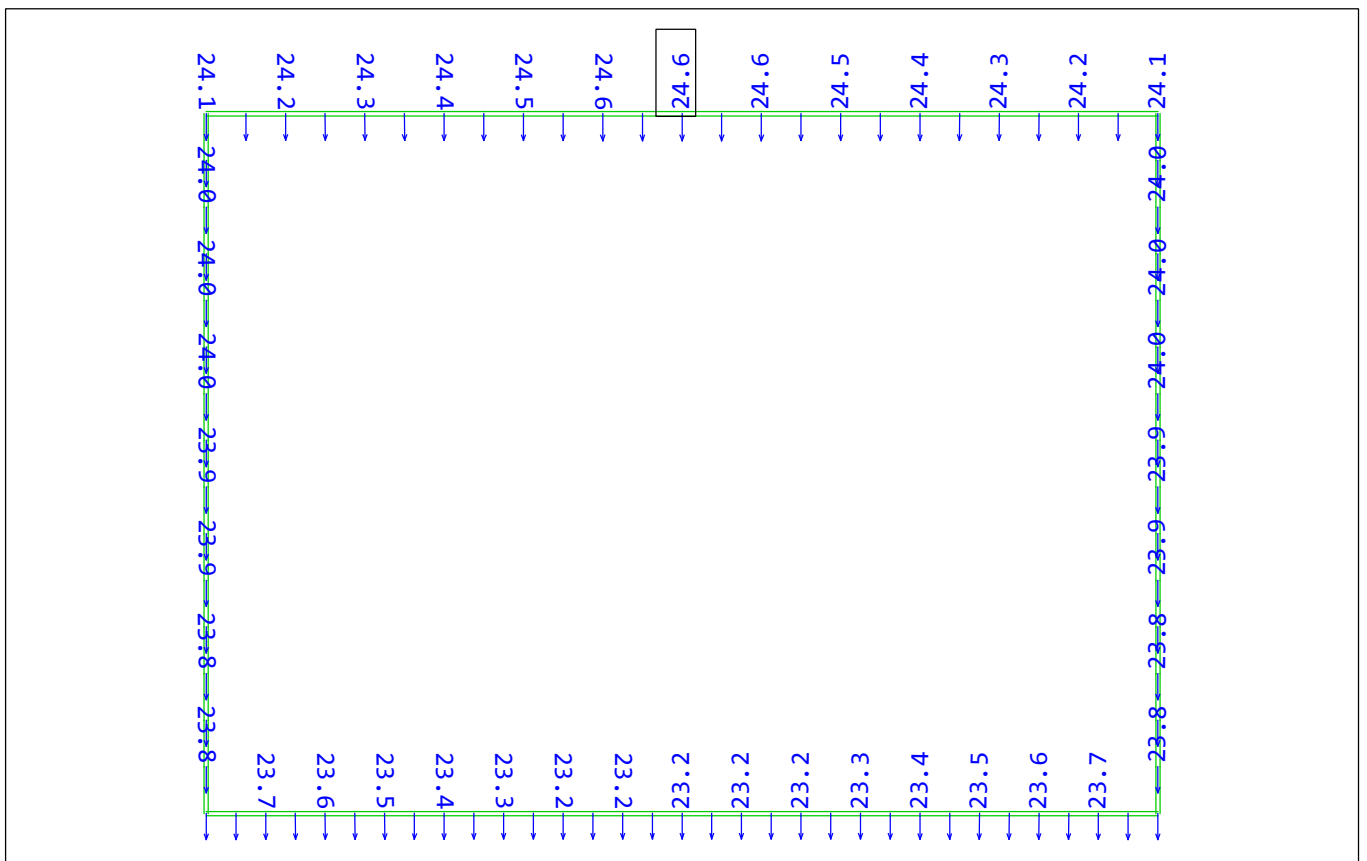
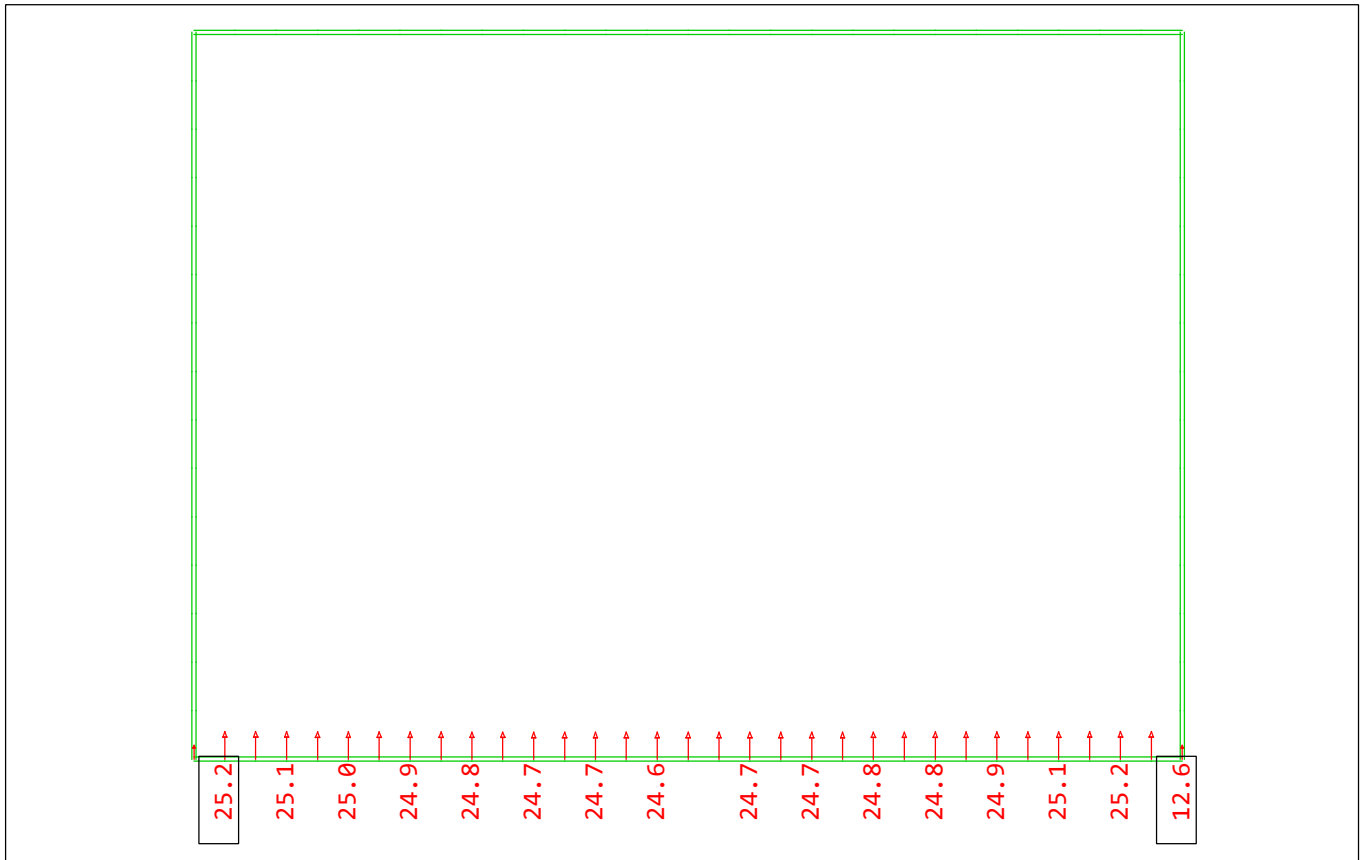


Beam Elements , Shear force Vz, nonlinear Loadcase 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T , 1 cm 3D =
 696.9 kN (Min=-382.7) (Max=382.7)

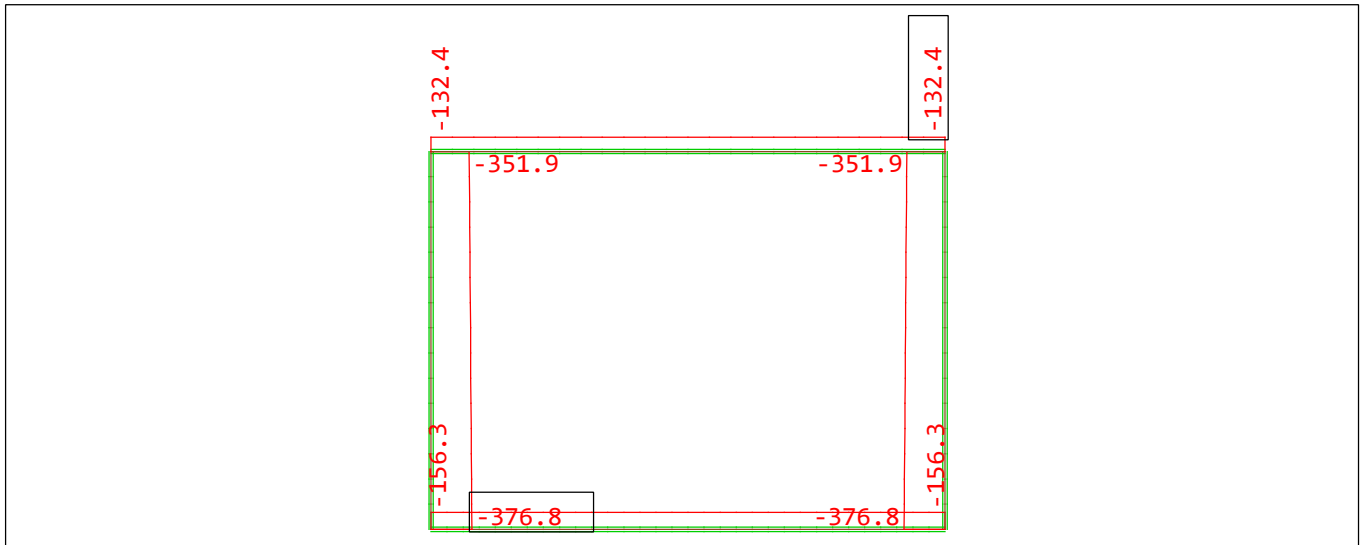


Beam Elements , Bending moment My, nonlinear Loadcase 240 1.35(G+R2)+C+1.2W+0.9Q2+1.5T , 1 cm 3D =
348.4 kNm (Min=-193.3) (Max=179.3)

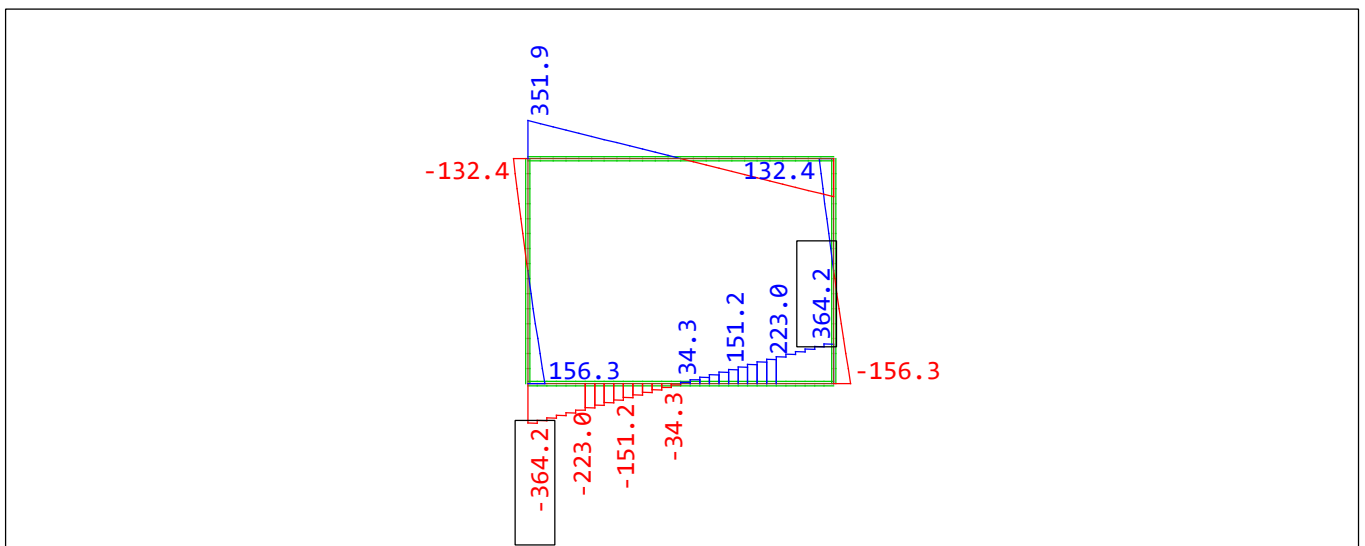
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ: 250 G+1.35R2+C+0.9Q2+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



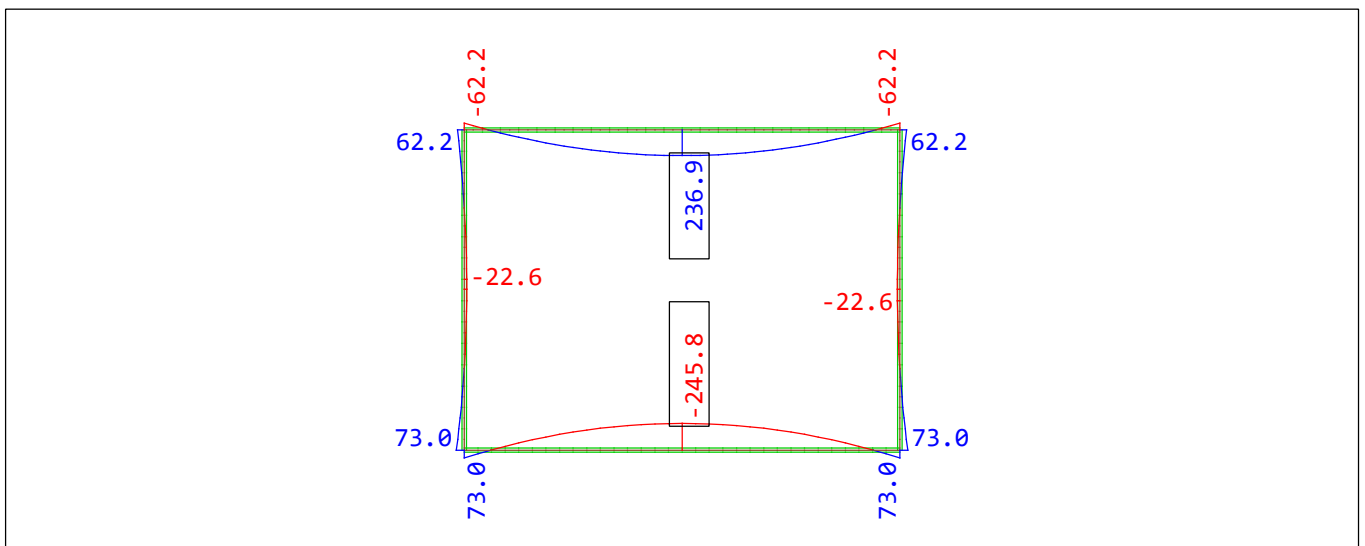
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ: 250 G+1.35R2+C+0.9Q2+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 250 G+1.35R2+C+0.9Q2+1.5T , 1 cm 3D = 696.9 kN
(Min=-376.8) (Max=-132.4)

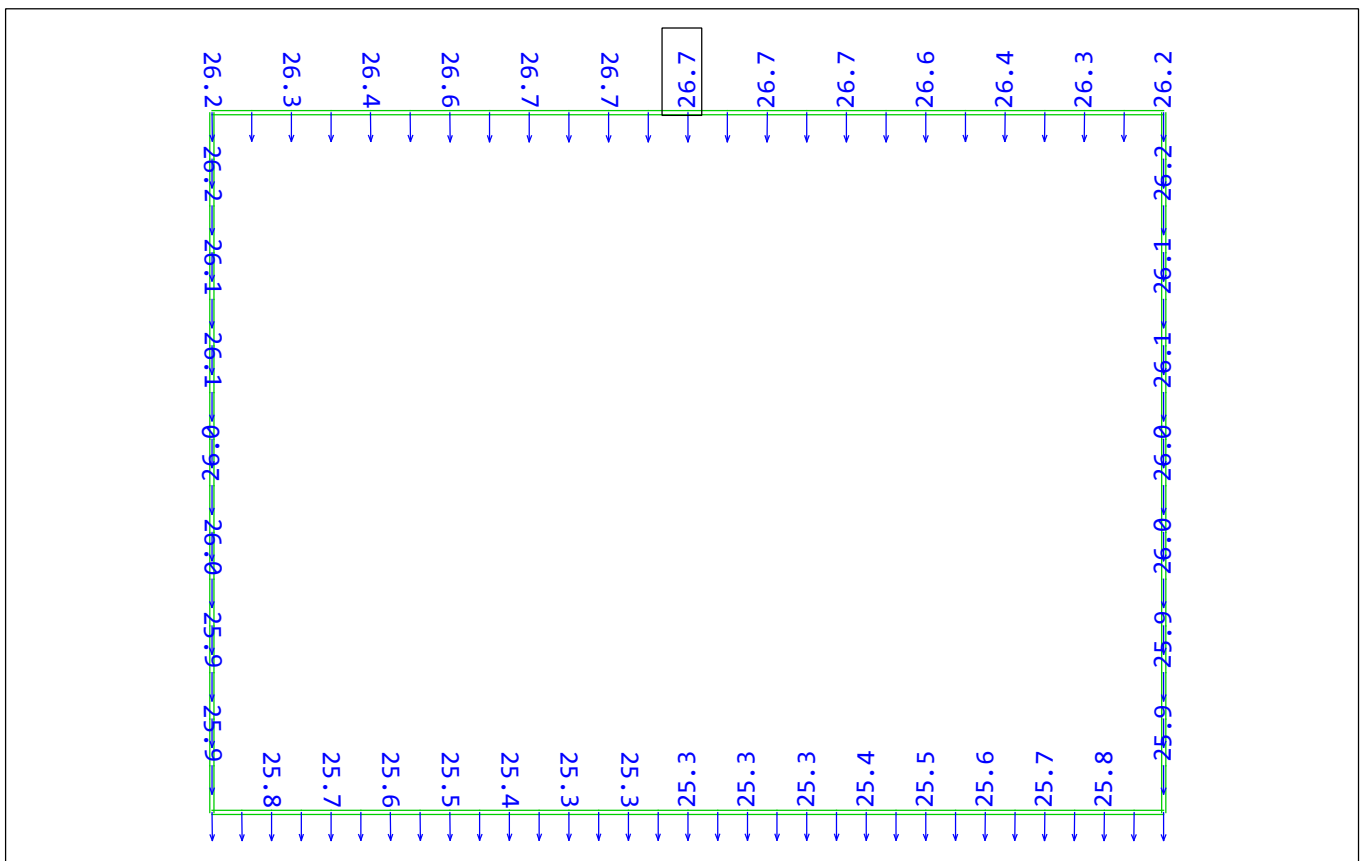
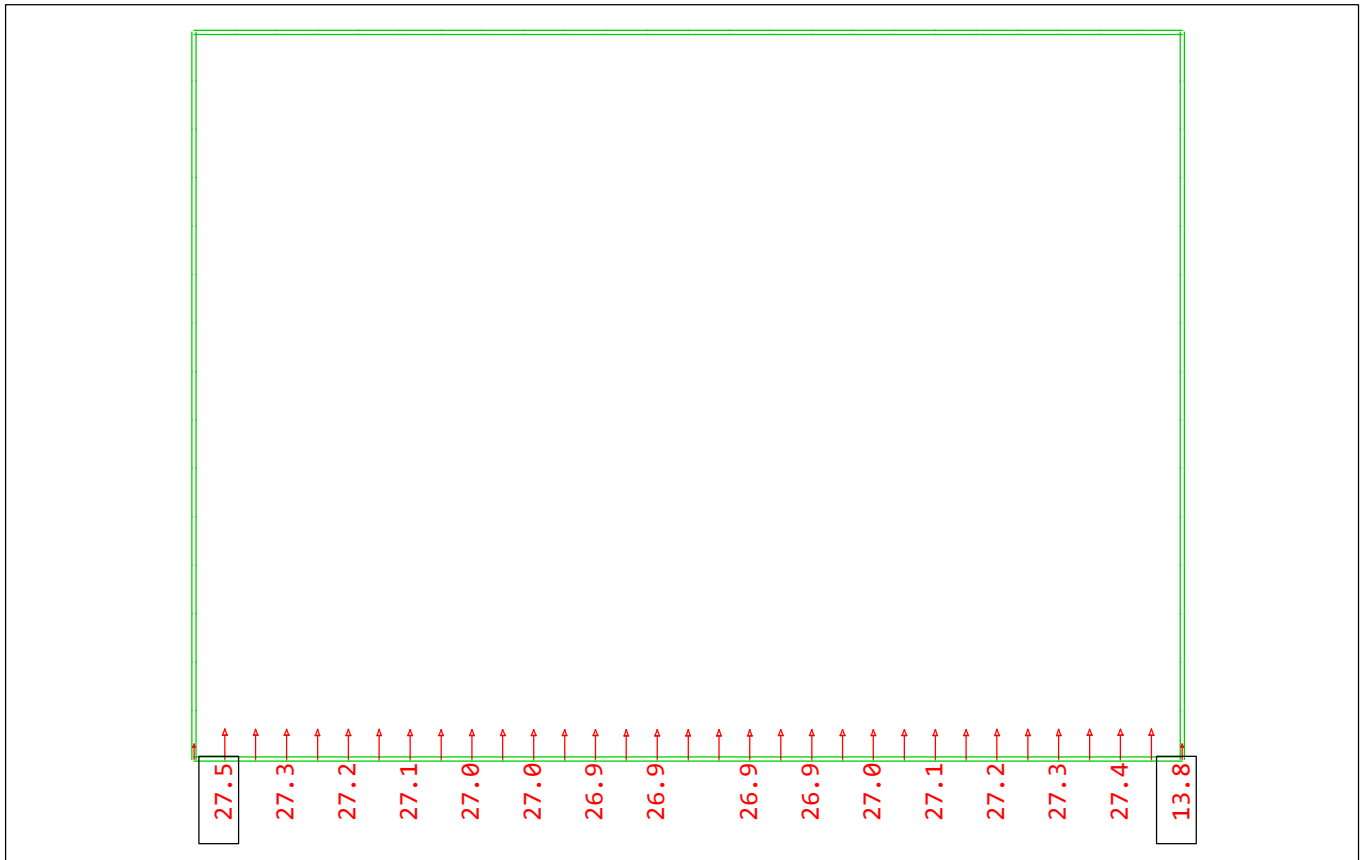


Beam Elements , Shear force Vz, nonlinear Loadcase 250 G+1.35R2+C+0.9Q2+1.5T , 1 cm 3D = 696.9 kN
(Min=-365.5) (Max=365.5)

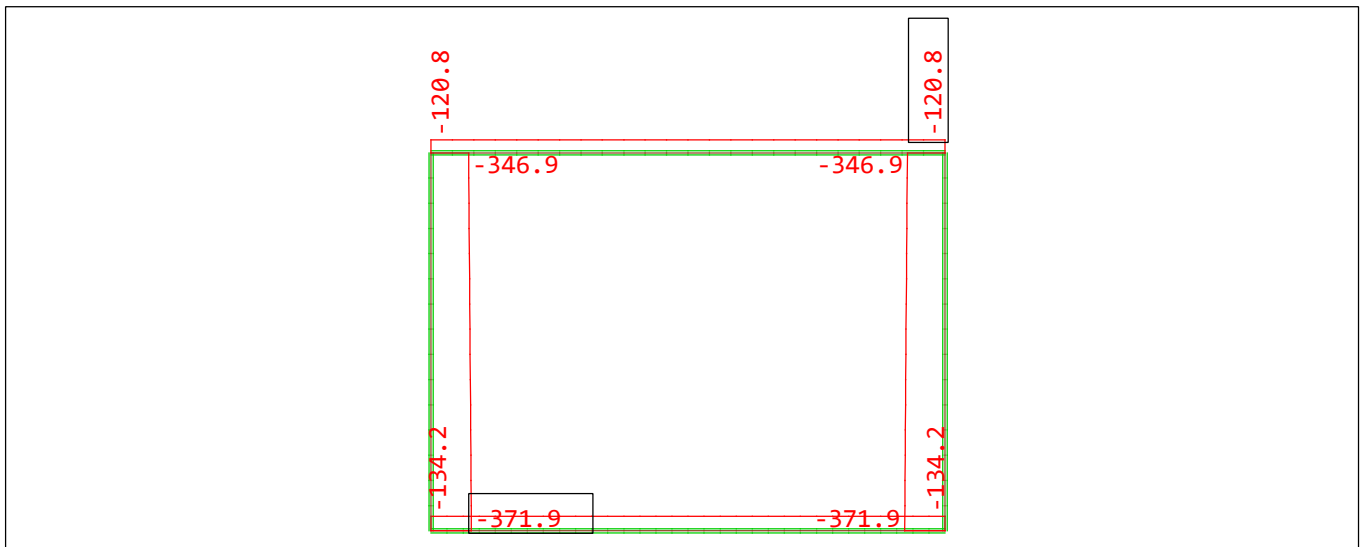


Beam Elements , Bending moment My, nonlinear Loadcase 250 G+1.35R2+C+0.9Q2+1.5T , 1 cm 3D = 696.9
kNm (Min=-245.8) (Max=236.9)

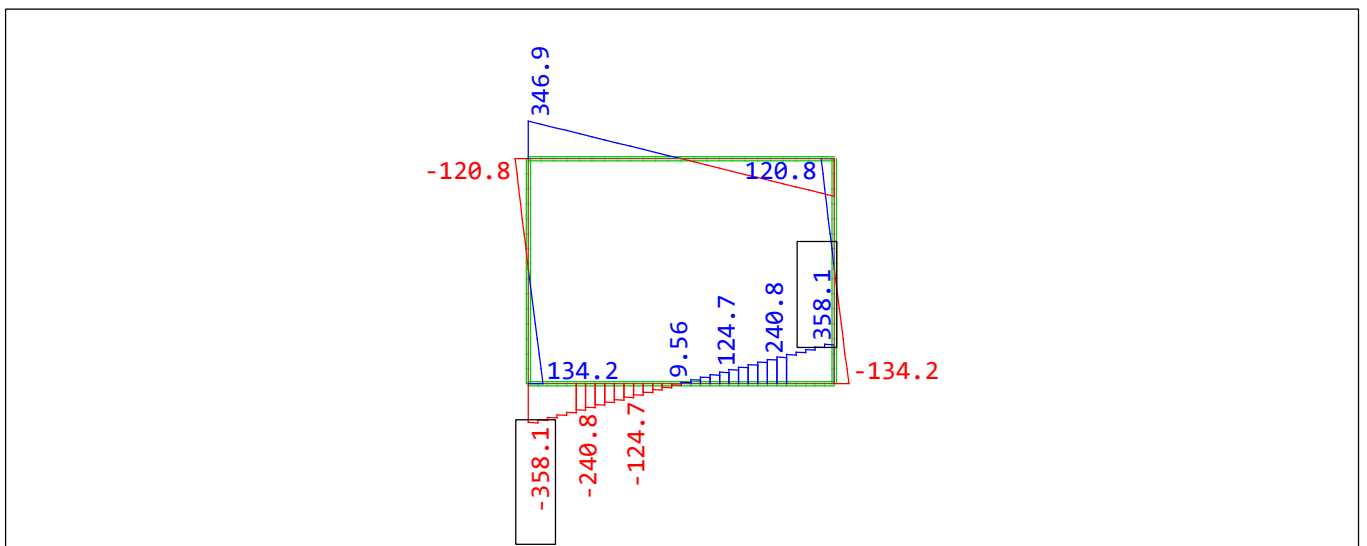
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



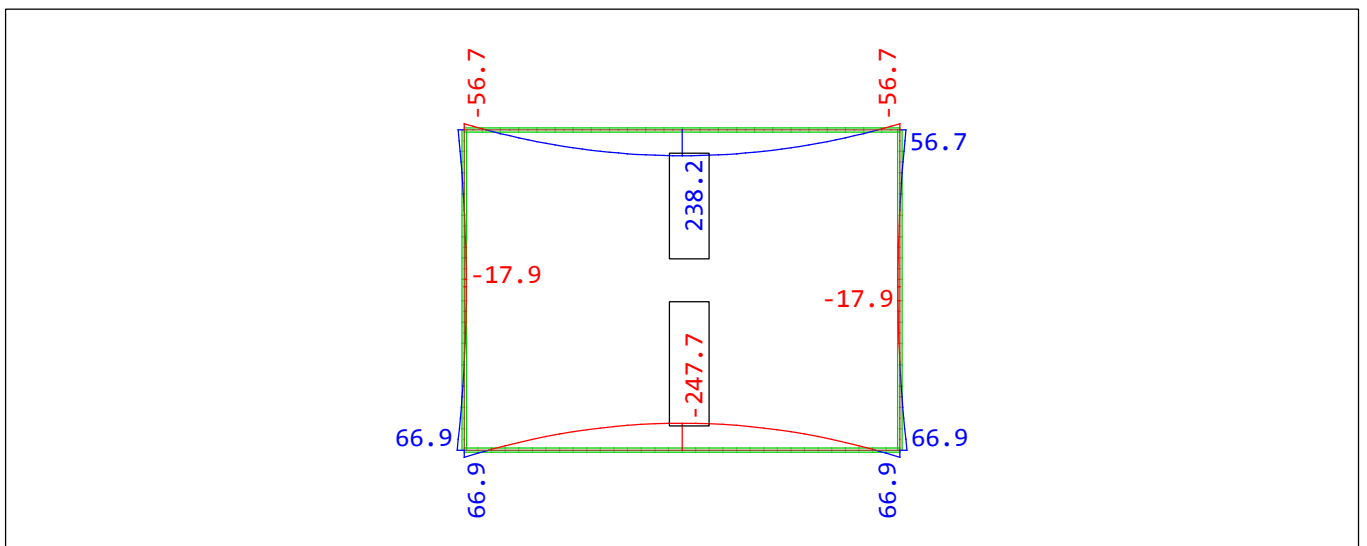
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ: 268 G+1.35R2+C+1.2W+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 696.9 kN
(Min=-371.9) (Max=-120.8)

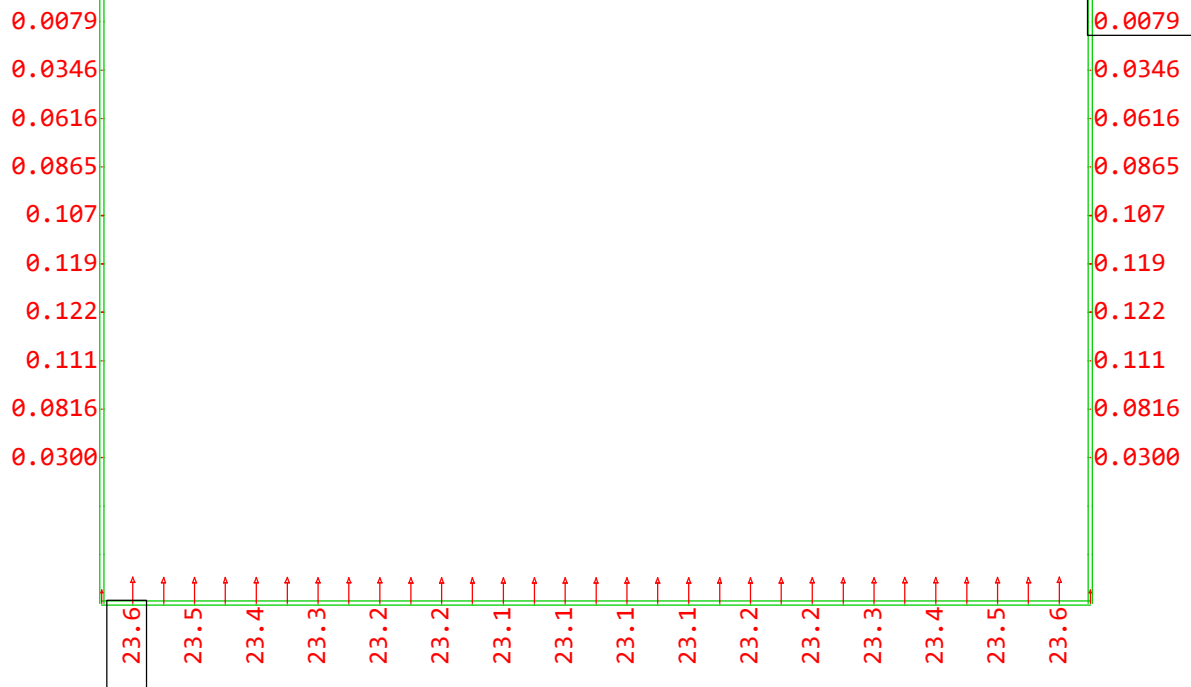


Beam Elements , Shear force Vz, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 696.9 kN
(Min=-362.0) (Max=362.0)

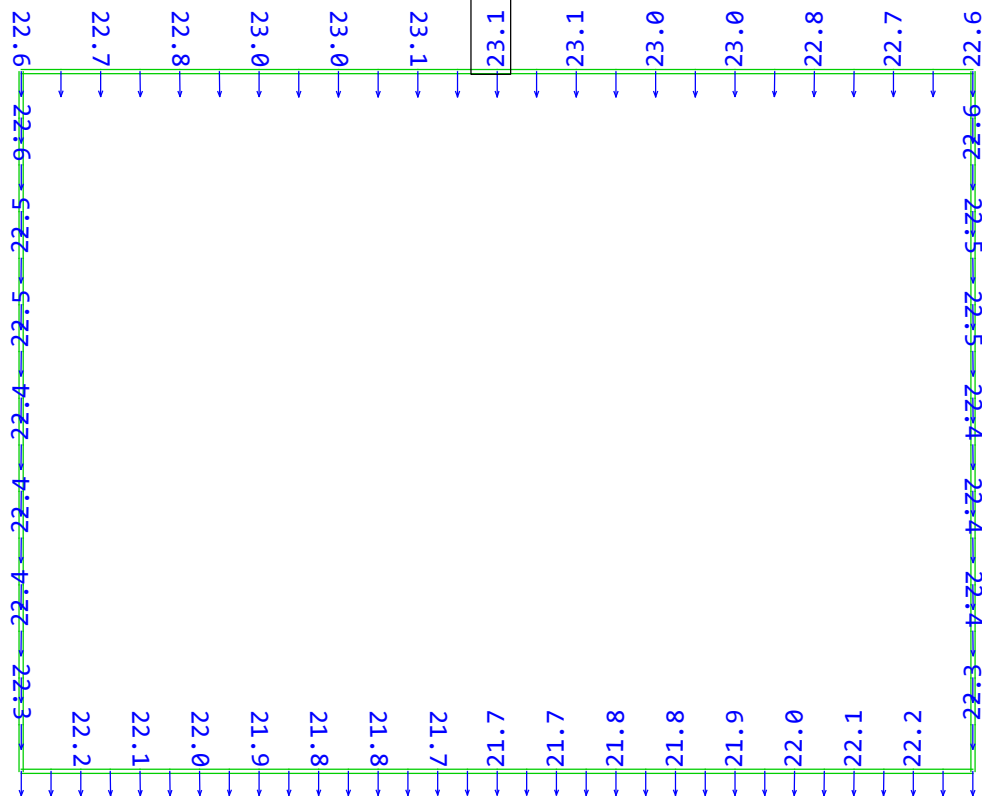


Beam Elements , Bending moment My, nonlinear Loadcase 268 G+1.35R2+C+1.2W+1.5T , 1 cm 3D = 696.9 kNm (Min=-247.7) (Max=238.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΑΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ: 272 1.35G+R2+C+1.2W+1.5T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ

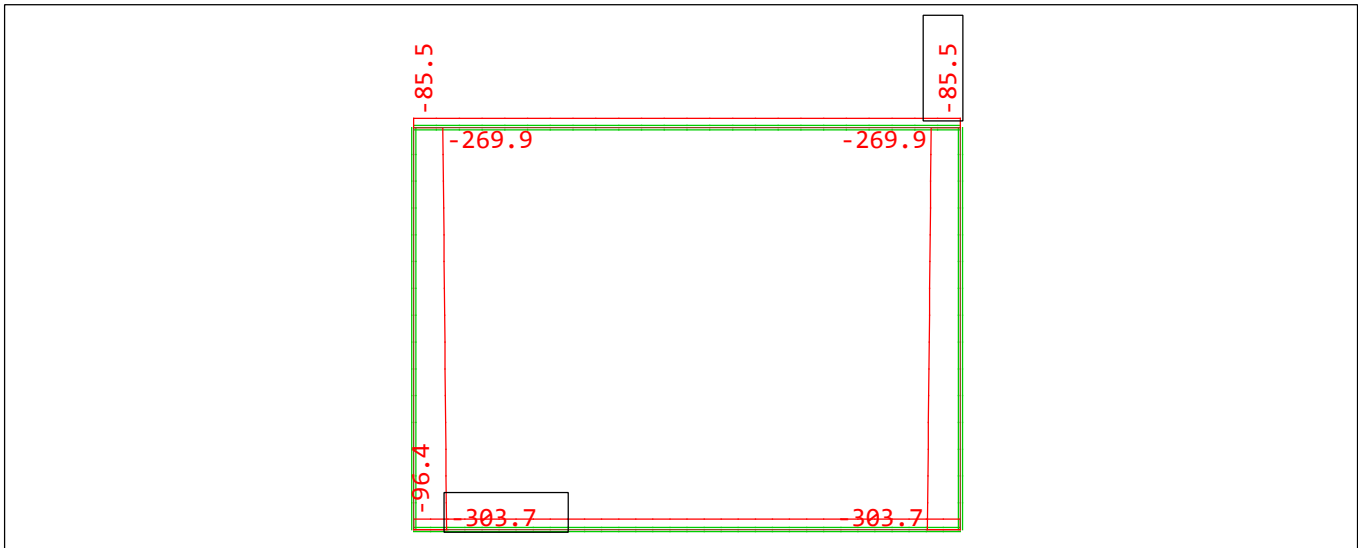


Spring force, nonlinear Loadcase 272 1.35G+R2+C+1.2W+1.5T , 1 cm 3D = 69.7 kN
(Max=0) (total: -747.8) (Min=-23.6)

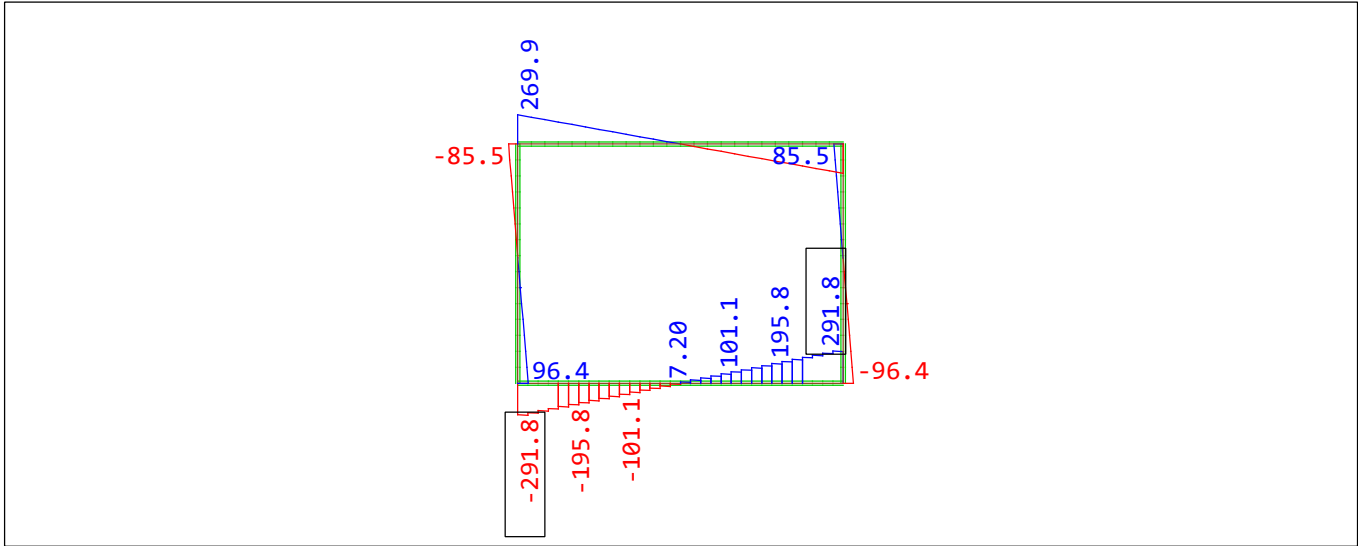


Nodal displacement vector, nonlinear Loadcase 272 1.35G+R2+C+1.2W+1.5T , 1 cm 3D = 69.7 mm
(Max=23.1)

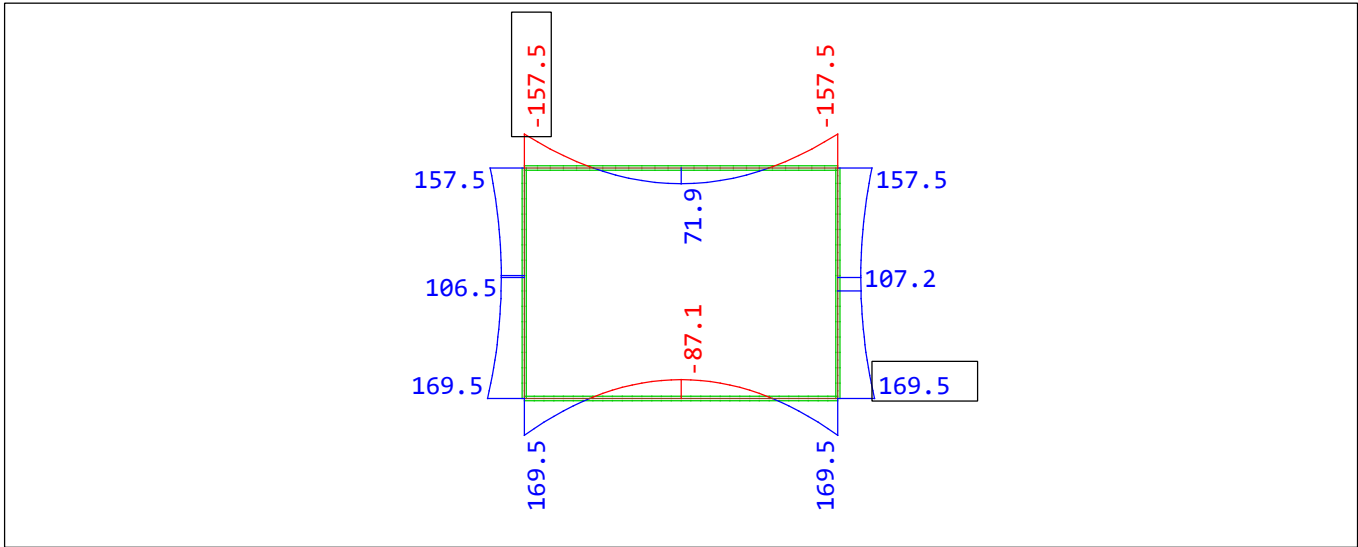
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΣΥΝΔΥΑΣΜΟΣ:272 1.35G+R2+C+1.2W+1.5T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 272 1.35G+R2+C+1.2W+1.5T , 1 cm 3D = 696.9 kN
 (Min=-303.7) (Max=-85.5)

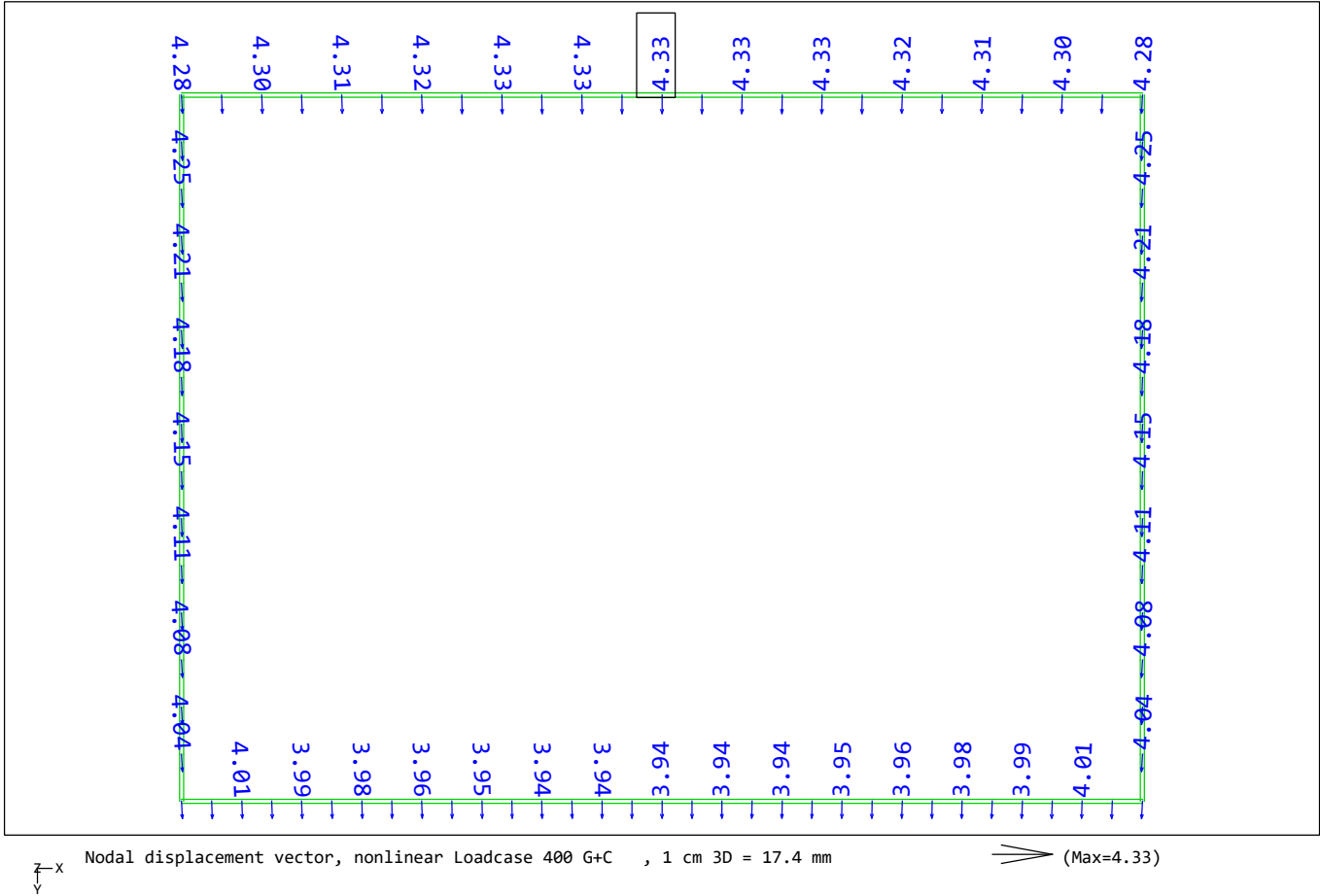
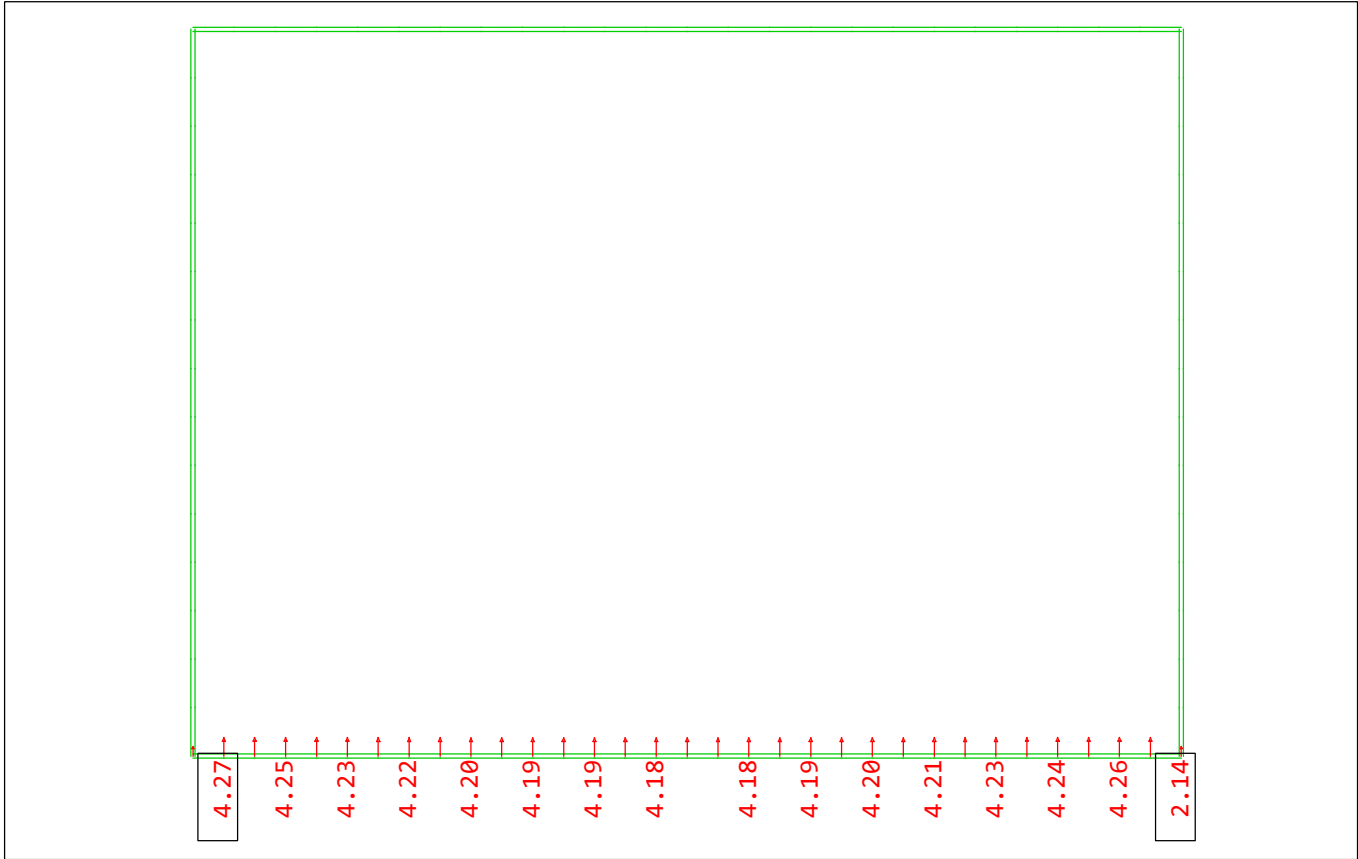


Beam Elements , Shear force Vz, nonlinear Loadcase 272 1.35G+R2+C+1.2W+1.5T , 1 cm 3D = 696.9 kN
 (Min=-296.2) (Max=296.2)



Beam Elements , Bending moment My, nonlinear Loadcase 272 1.35G+R2+C+1.2W+1.5T , 1 cm 3D = 348.4
 kNm (Min=-157.5) (Max=169.5)

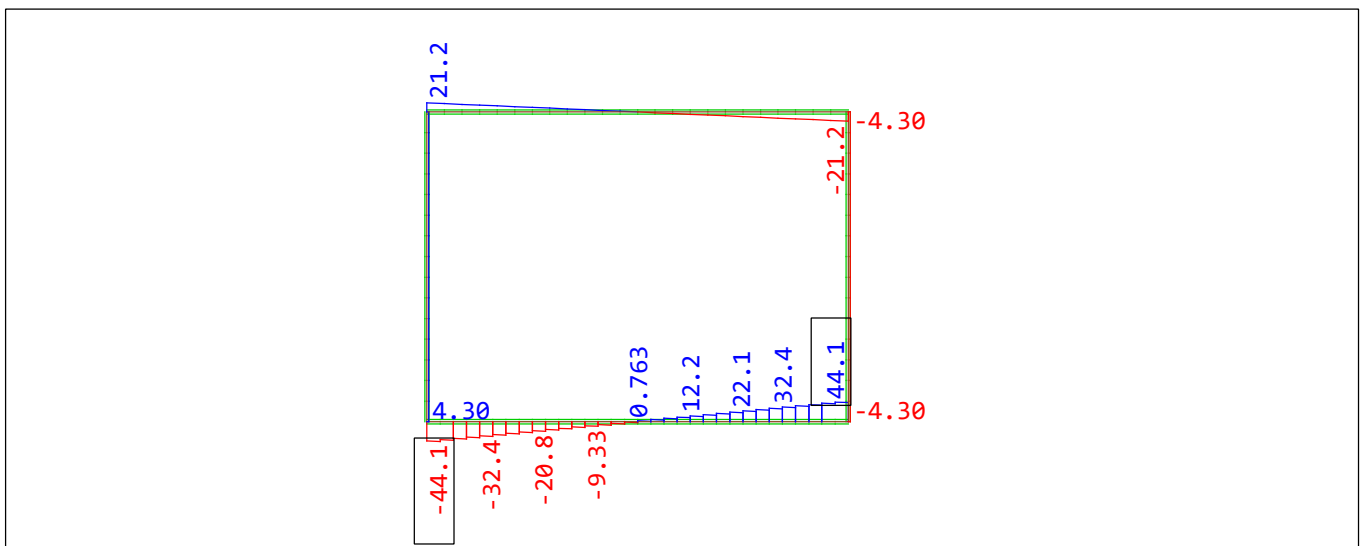
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:400 G+C / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



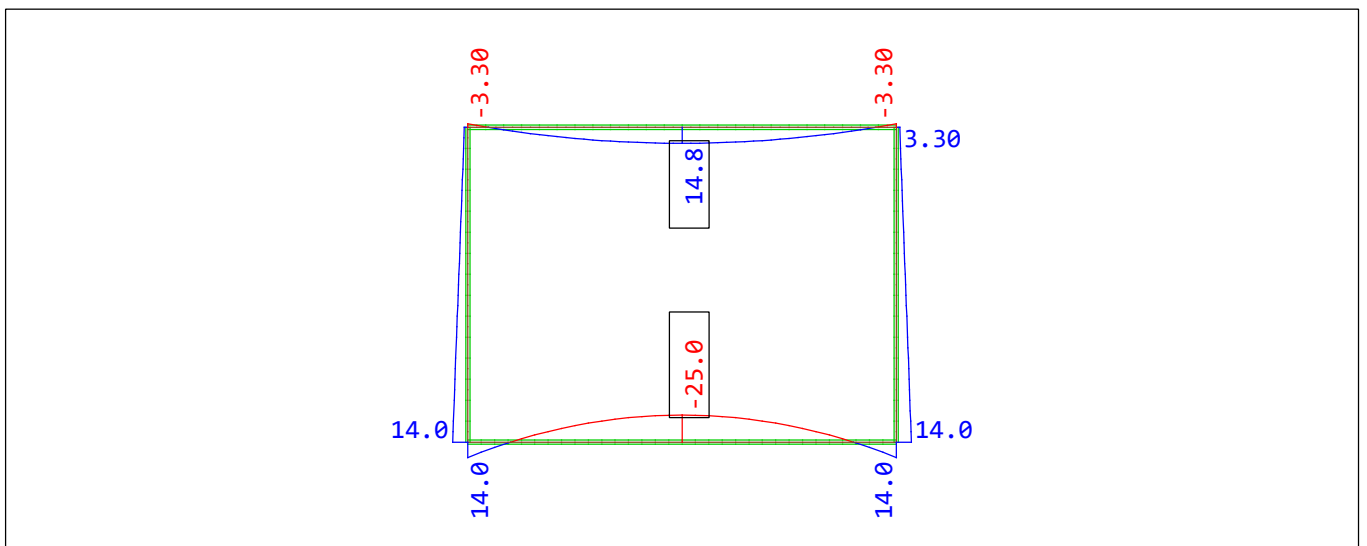
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:400 G+C / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



Beam Elements , Normal force Nx, nonlinear Loadcase 400 G+C , 1 cm 3D = 174.2 kN (Min=-46.2)
(Max=4.30)



Beam Elements , Shear force Vz, nonlinear Loadcase 400 G+C , 1 cm 3D = 174.2 kN (Min=-45.4)
(Max=45.4)

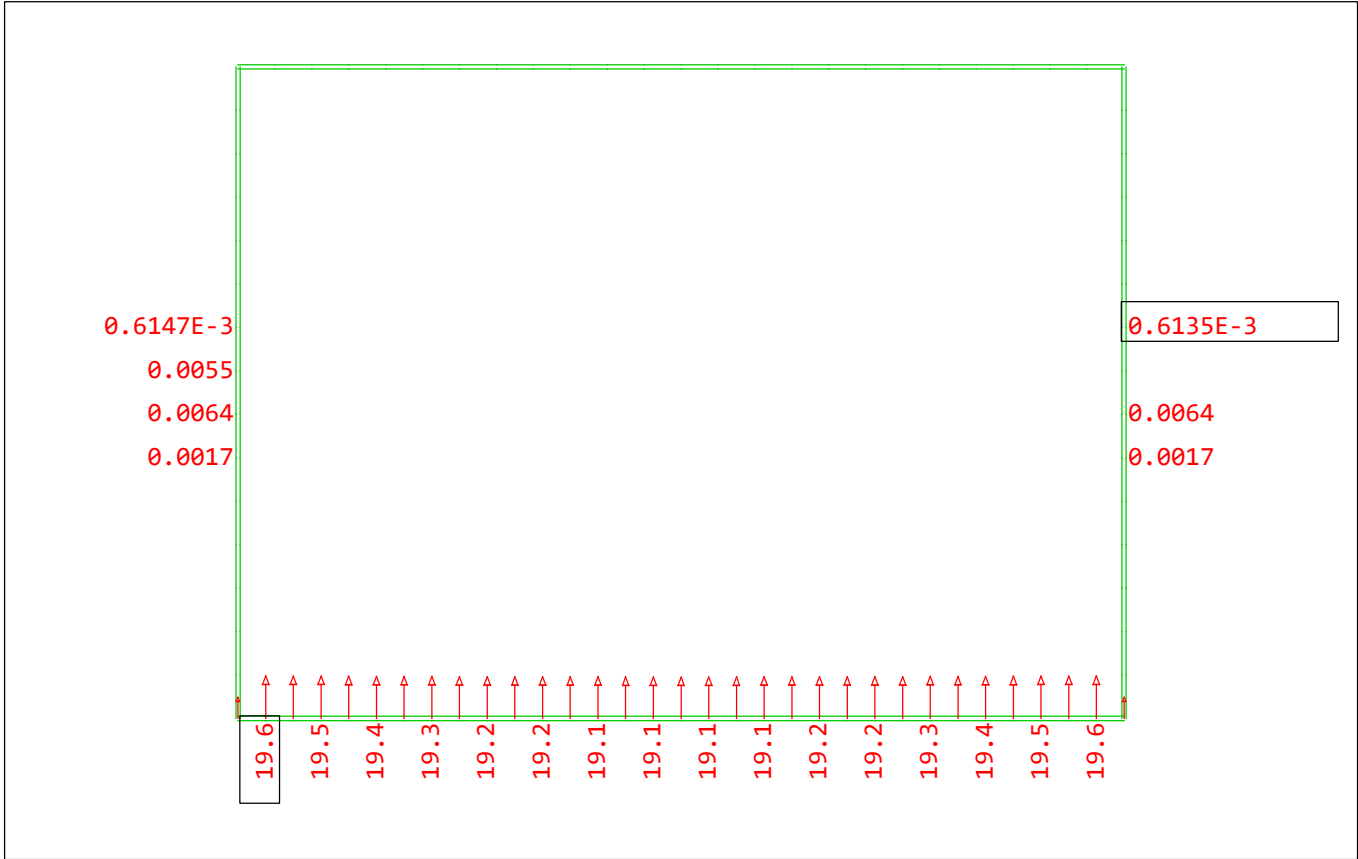


Beam Elements , Bending moment My, nonlinear Loadcase 400 G+C , 1 cm 3D = 69.7 kNm (Min=-25.0)
(Max=14.8)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

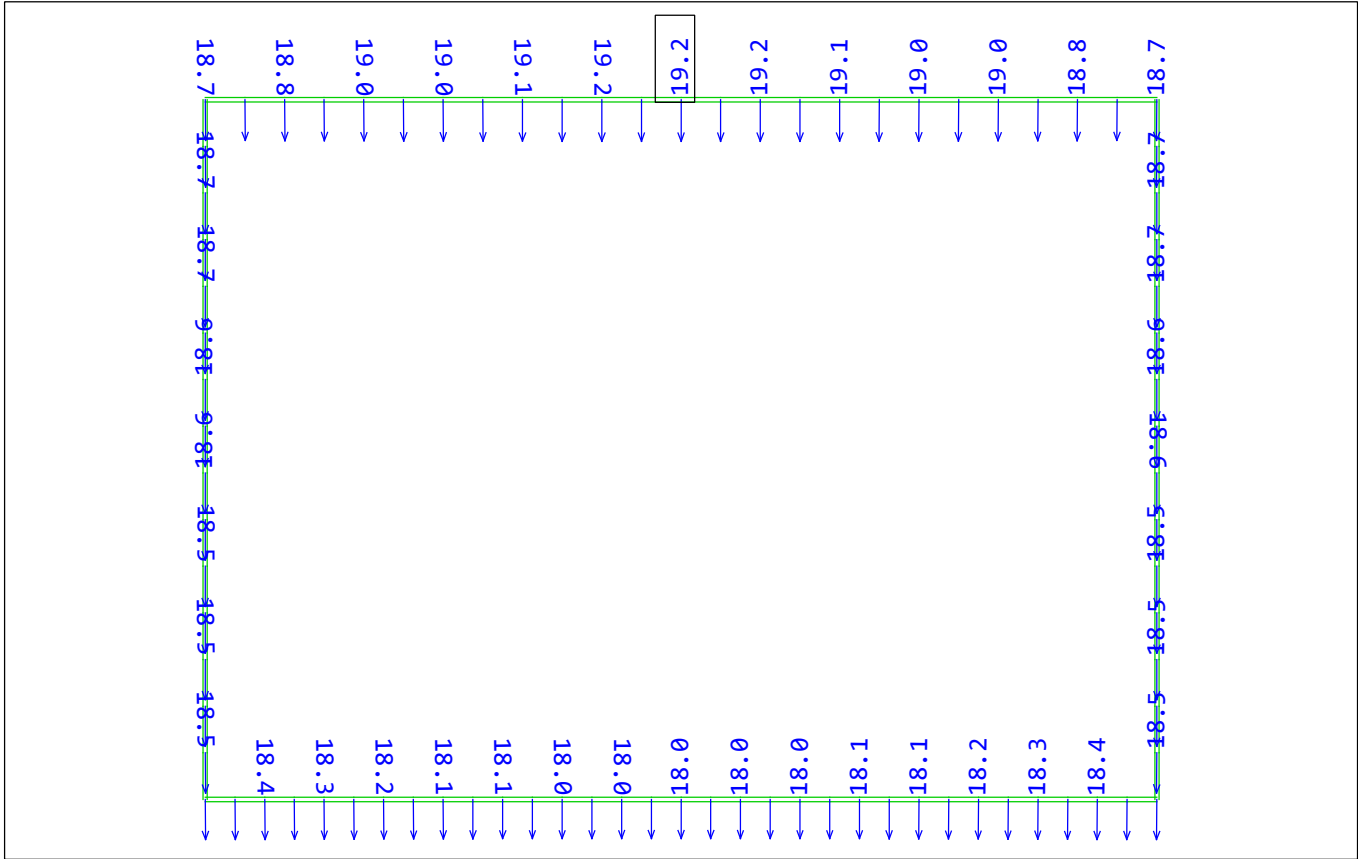
- ΑΓΩΓΟΣ Α3 -

ΣΥΝΔΥΑΣΜΟΣ:421 G+C+R2 / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



Spring force, nonlinear Loadcase 421 G+C+R2 , 1 cm 3D = 34.8 kN

(Min=-19.6) (Max=0) (total: -617.4)



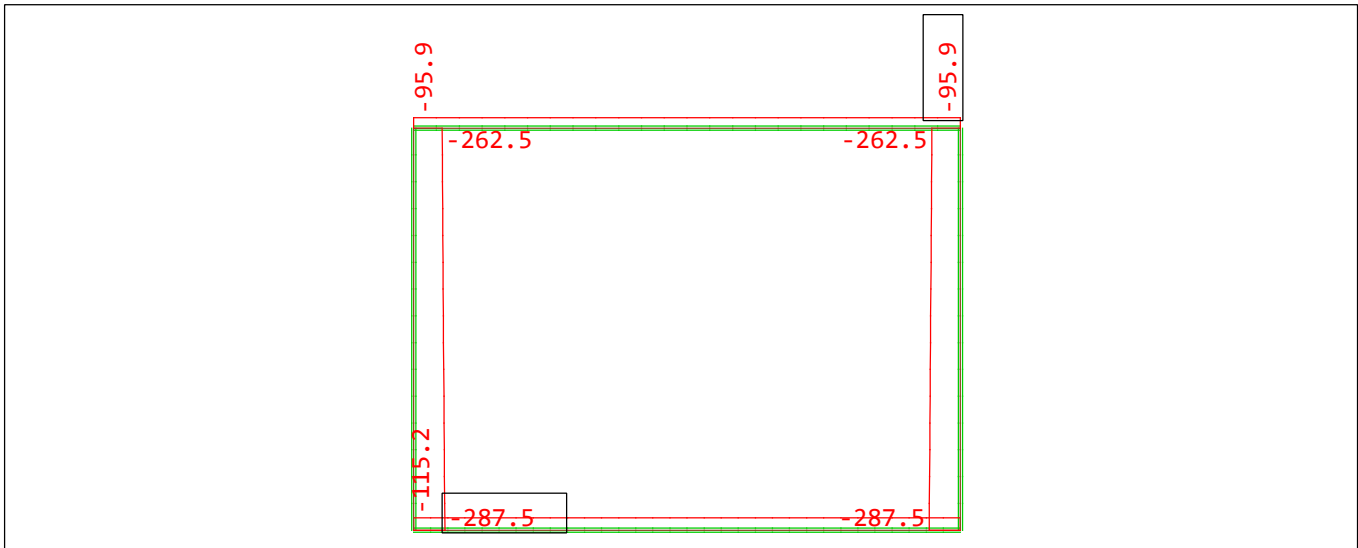
Nodal displacement vector, nonlinear Loadcase 421 G+C+R2 , 1 cm 3D = 34.8 mm

(Max=19.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

ΣΥΝΔΥΑΣΜΟΣ:421 G+C+R2 / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N,Vz,My



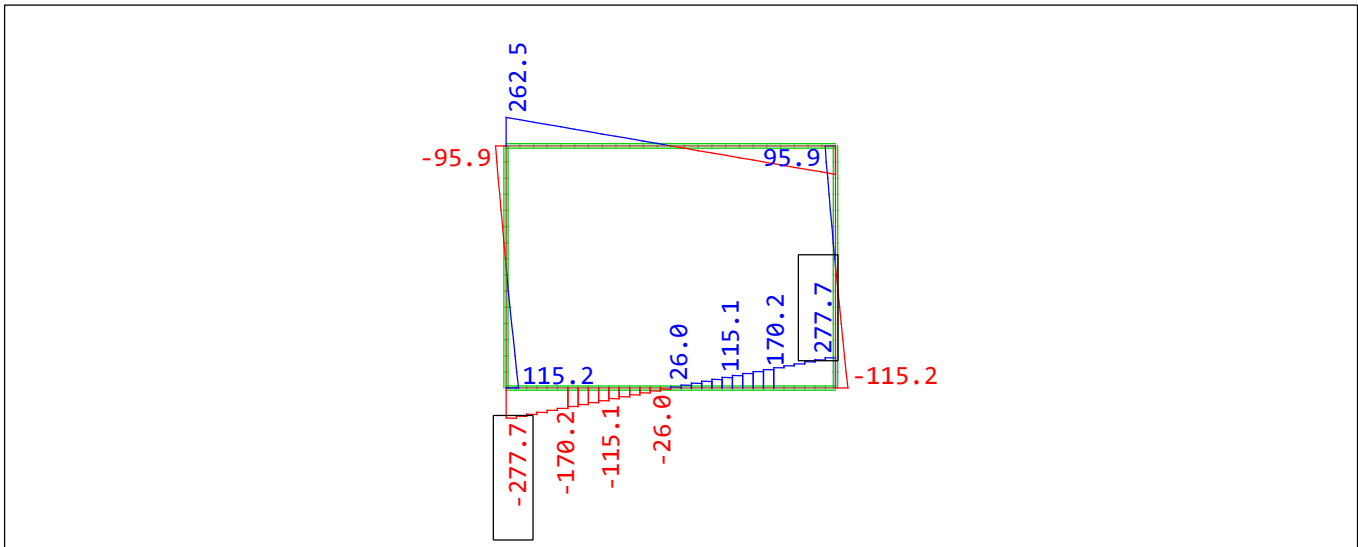
z

x

v

Beam Elements , Normal force Nx, nonlinear Loadcase 421 G+C+R2 , 1 cm 3D = 696.9 kN (Min=-287.5)

(Max=-95.9)



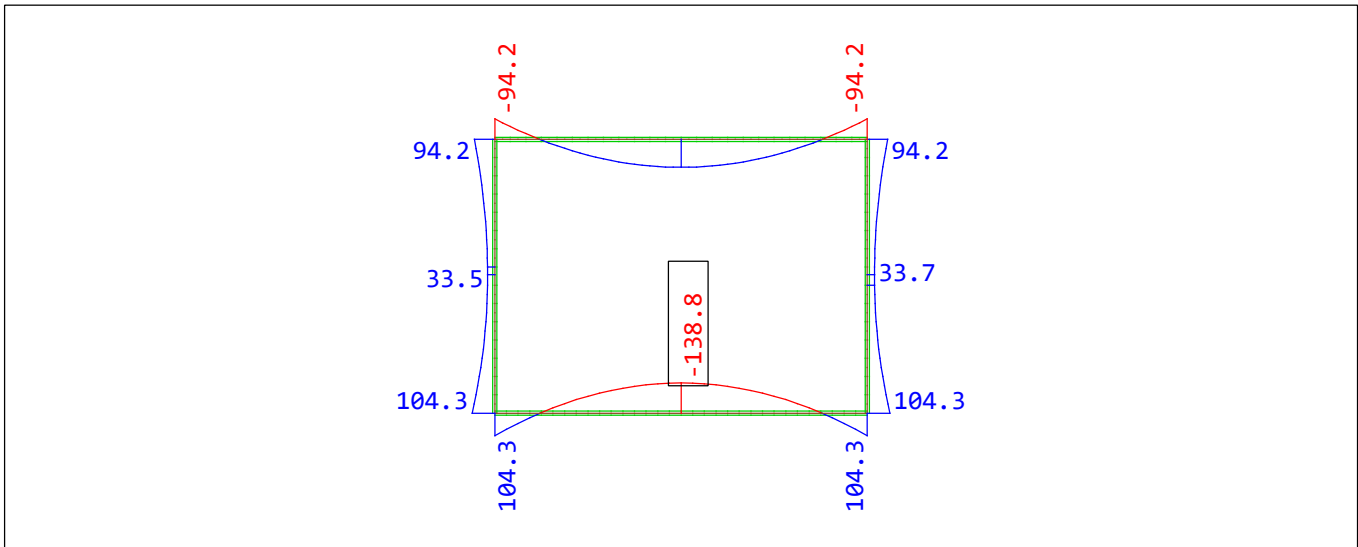
z

x

v

Beam Elements , Shear force Vz, nonlinear Loadcase 421 G+C+R2 , 1 cm 3D = 696.9 kN (Min=-279.0)

(Max=279.0)



z

x

v

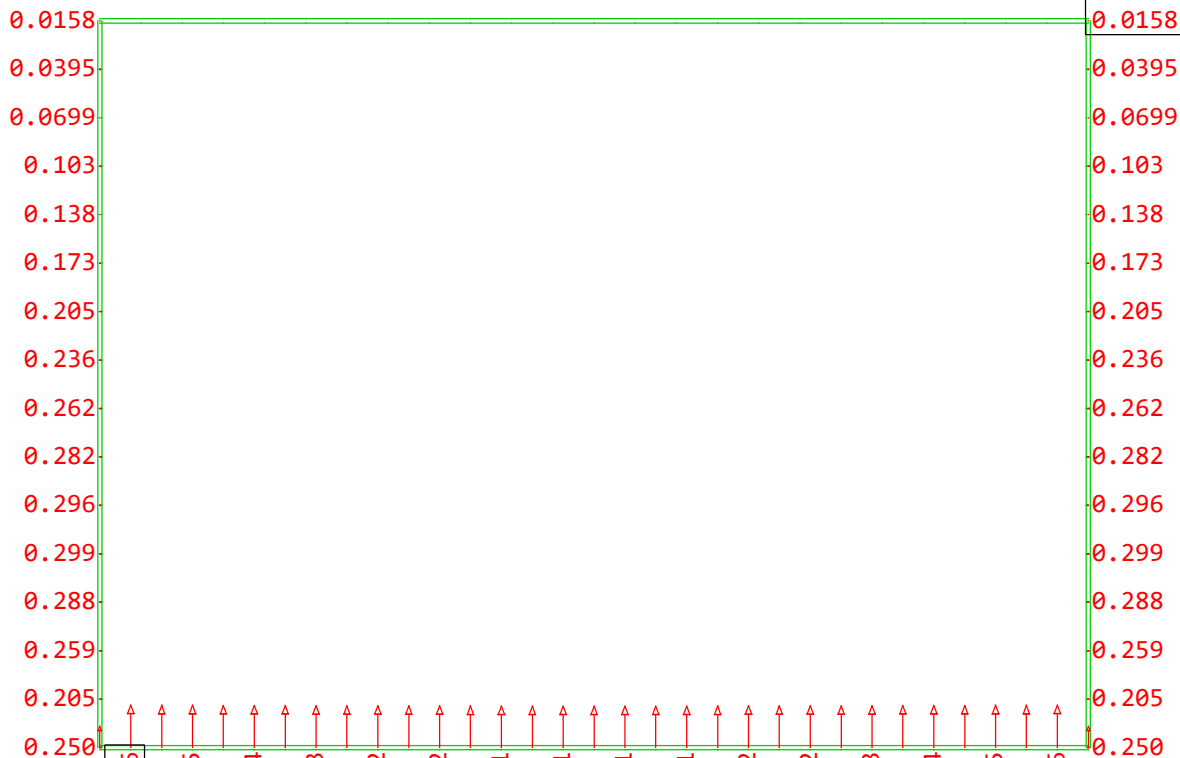
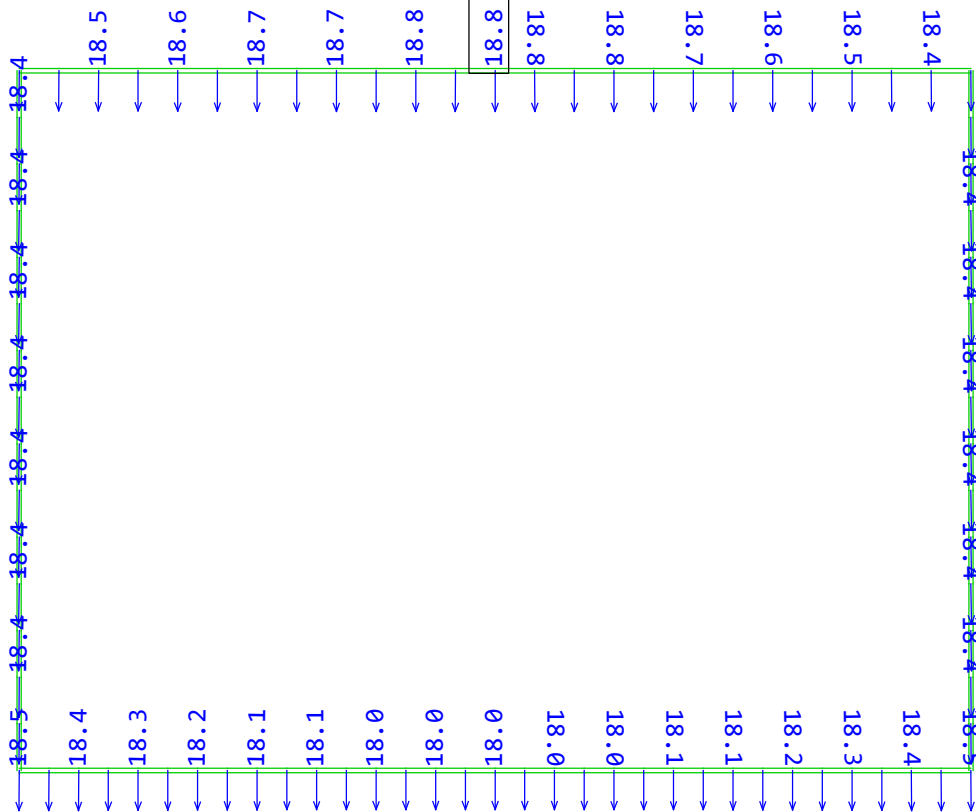
Beam Elements , Bending moment My, nonlinear Loadcase 421 G+C+R2 , 1 cm 3D = 348.4 kNm (Min=-138.8)

(Max=128.9)

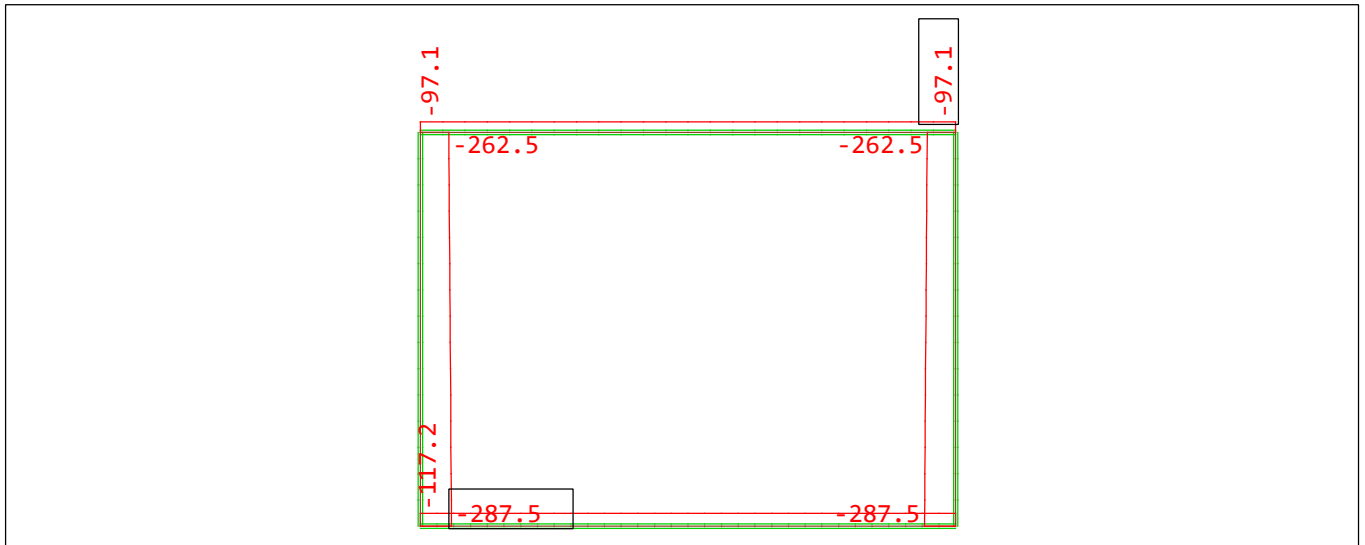
ΣΤΑΤΙΣΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

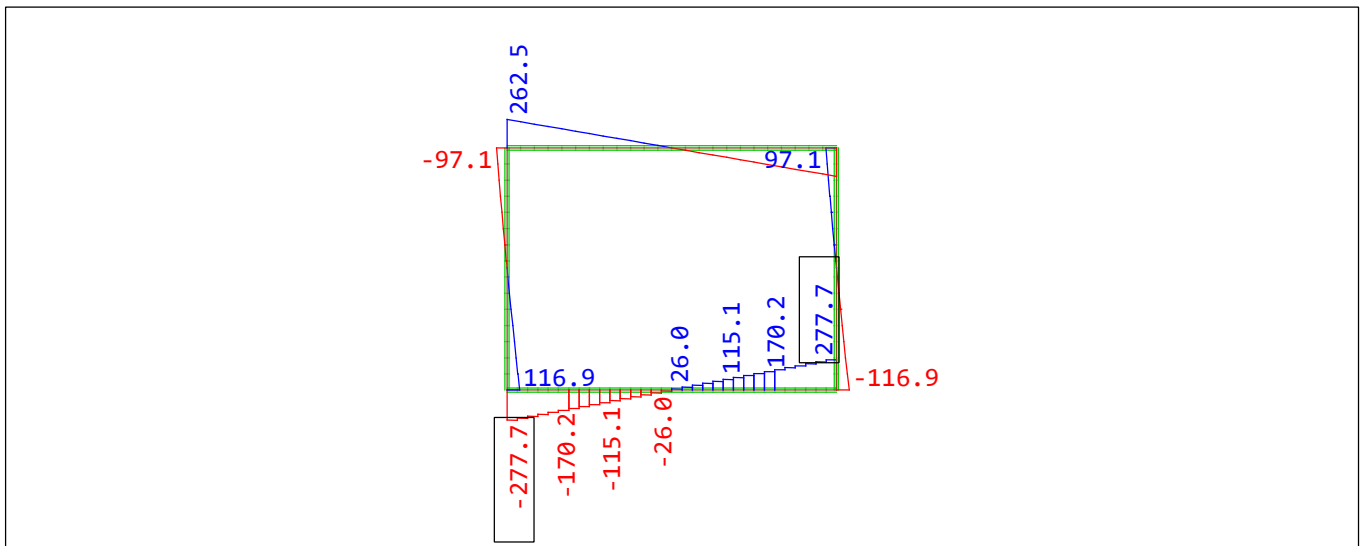
ΣΥΝΔΥΑΣΜΟΣ: 425 G+C+R2+T / ΑΝΤΙΑΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ


$$\begin{array}{c} Z-X \\ | \\ Y \end{array}$$

$$\begin{array}{c} z-x \\ \downarrow \\ y \end{array}$$

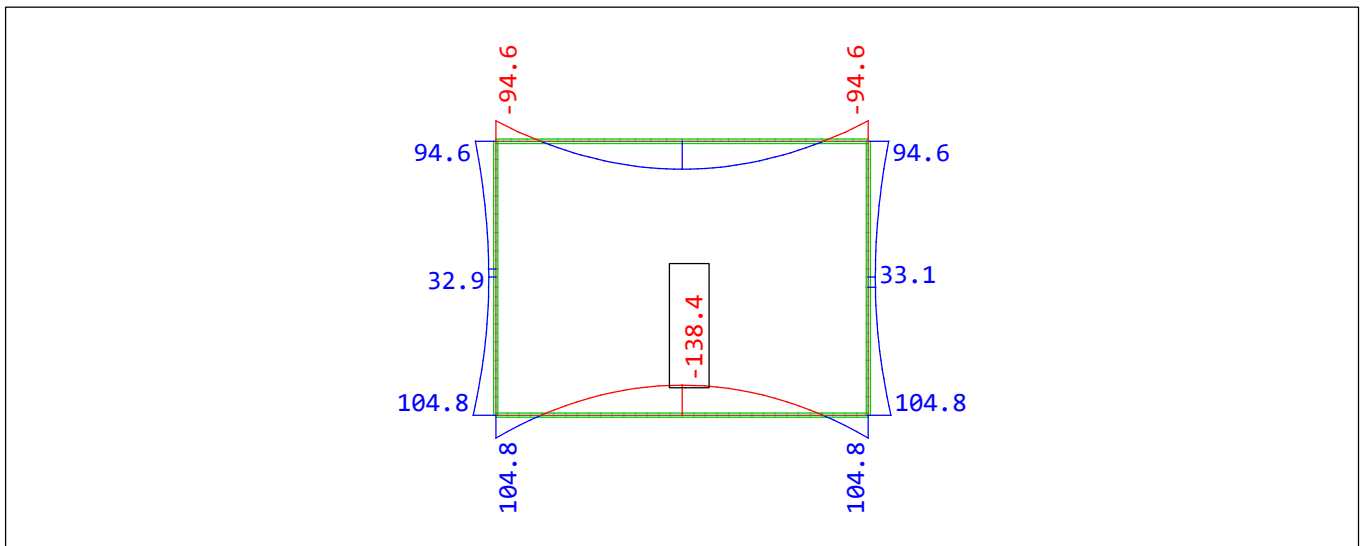
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:425 G+C+R2+T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N_x, V_z, M_y



Beam Elements , Normal force N_x , nonlinear Loadcase 425 G+C+R2+T , 1 cm 3D = 696.9 kN (Min=-287.5)
(Max=-97.1)

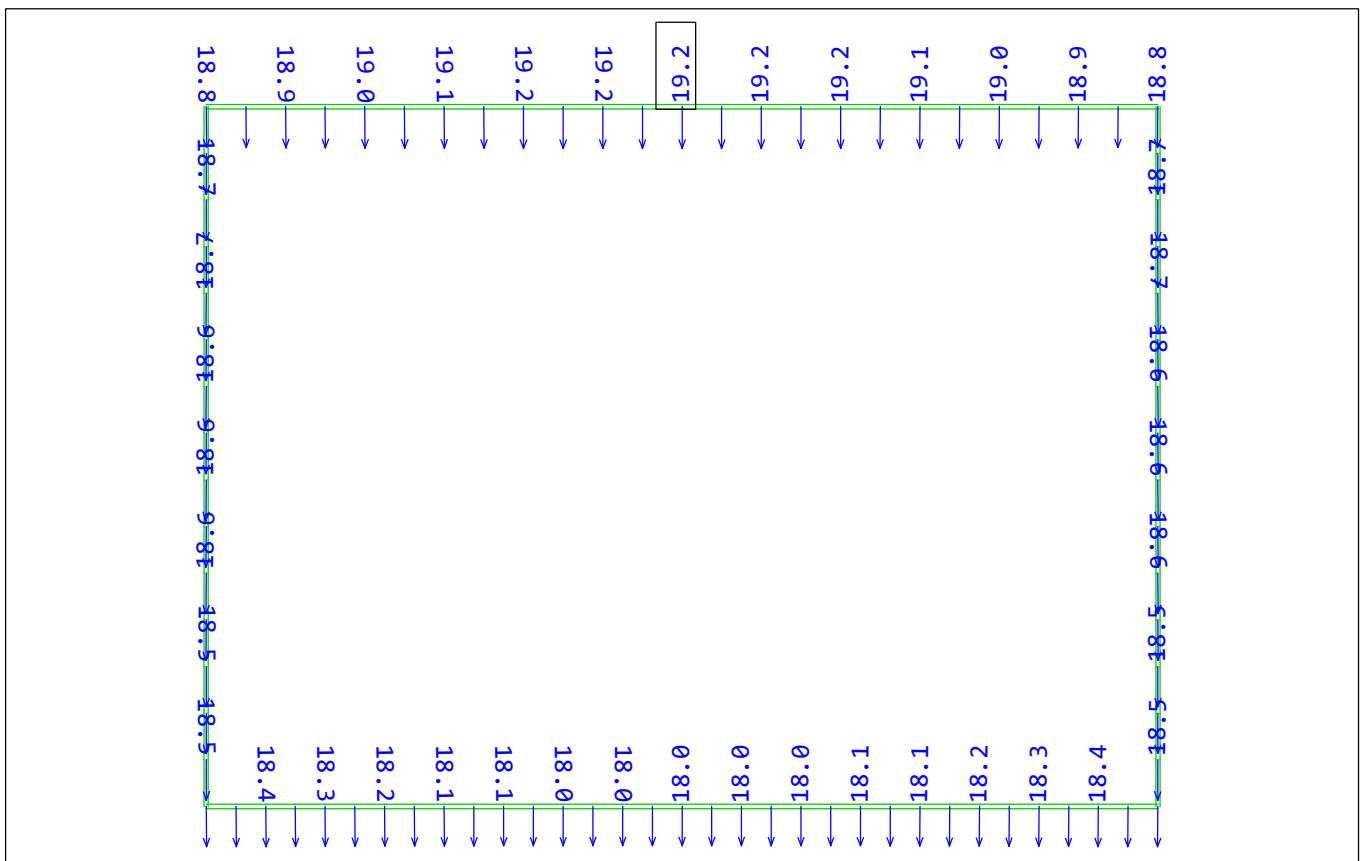
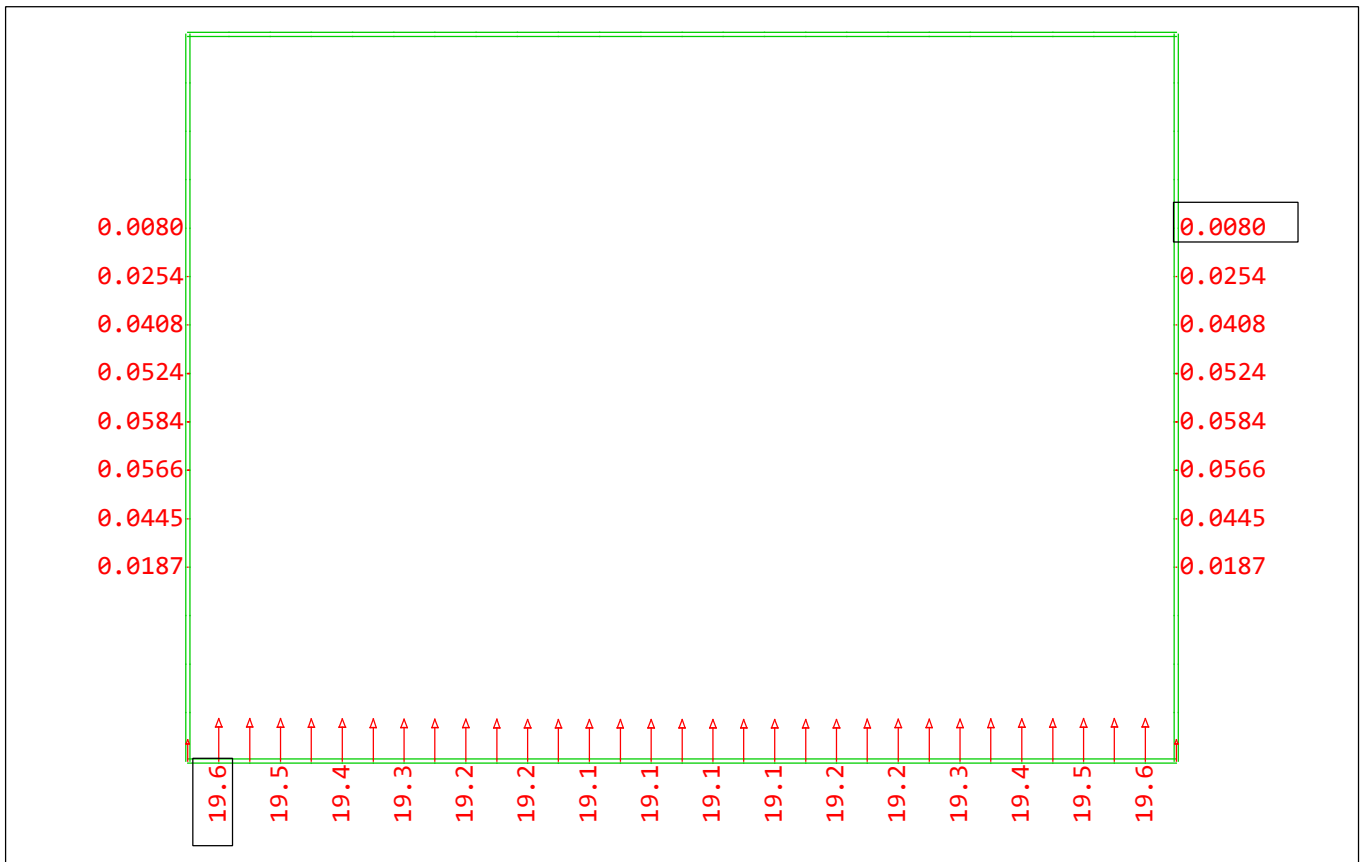


Beam Elements , Shear force V_z , nonlinear Loadcase 425 G+C+R2+T , 1 cm 3D = 696.9 kN (Min=-279.0)
(Max=279.0)

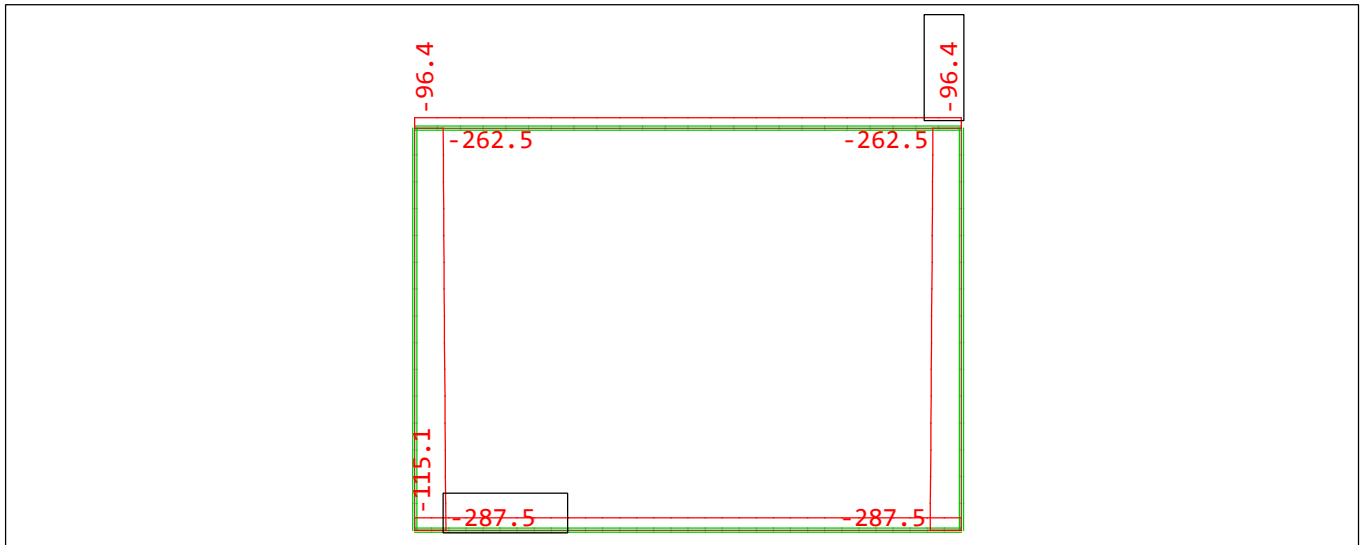


Beam Elements , Bending moment M_y , nonlinear Loadcase 425 G+C+R2+T , 1 cm 3D = 348.4 kNm
(Min=-138.4) (Max=128.5)

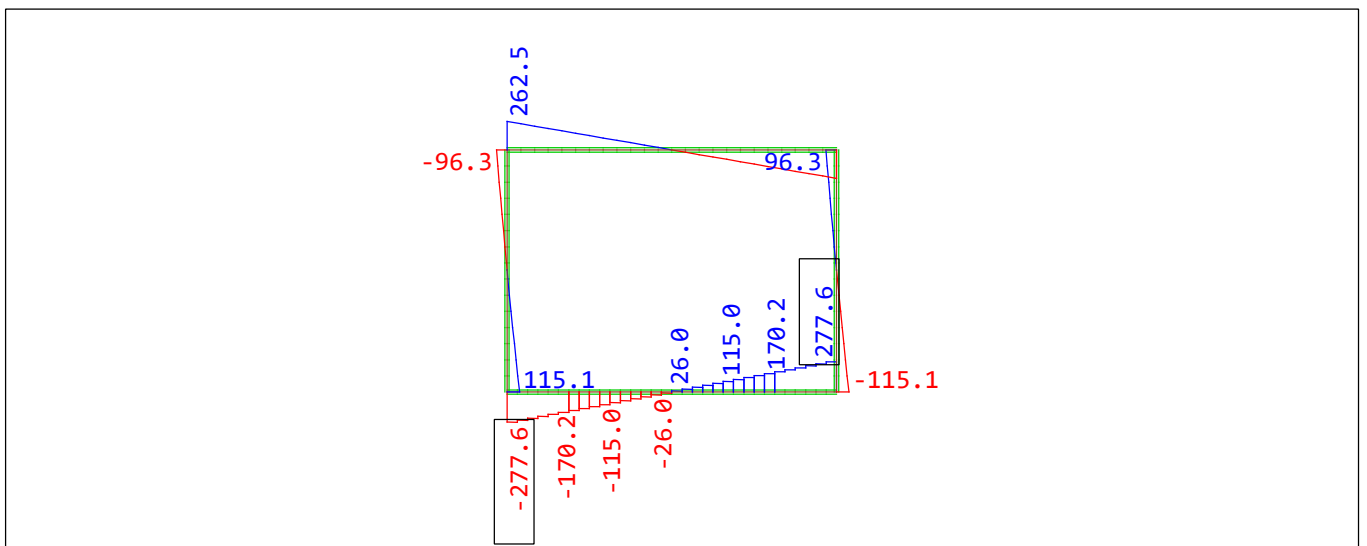
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΑΝΤΙΔΡ. ΕΛΑΤΗΡΙΩΝ & ΠΑΡΑΜΟΡΦΩΣΕΙΣ



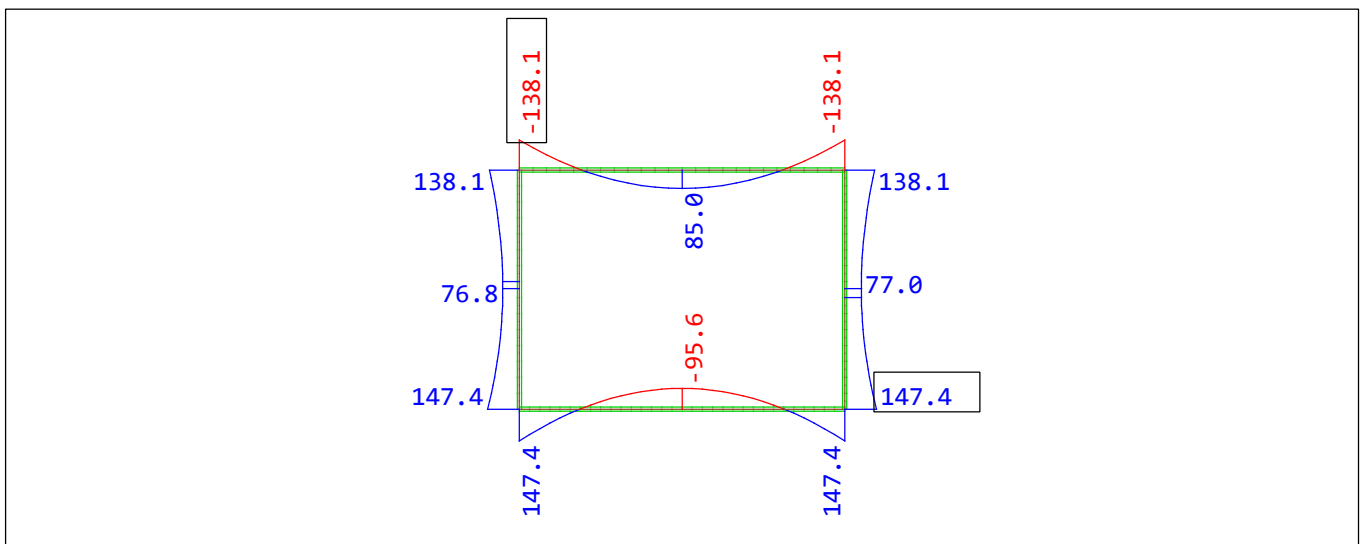
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΣΥΝΔΥΑΣΜΟΣ:428 G+C+R2+T / ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ N, V_z, M_y



Beam Elements , Normal force N_x , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 696.9 kN (Min=-287.5) (Max=-96.3)



Beam Elements , Shear force V_z , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 696.9 kN (Min=-279.0) (Max=279.0)



Beam Elements , Bending moment M_y , nonlinear Loadcase 428 G+C+R2+T , 1 cm 3D = 348.4 kNm (Min=-138.1) (Max=147.4)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -

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ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΟΝ ΑΣΤΟΧΙΑΣ

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ

- ΑΓΩΓΟΣ Α3 -

Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 1

Design combination

Resulting Load Cases type ULS fundamental combination

Load Case selection

Number	Fact	Type	Designation
201	1.00	AG1	1.35(G+R2)+C
202	1.00	AG1	G+1.35R2+C
203	1.00	AG1	1.35G+R2+C
204	1.00	AG1	1.35(G+R2)+C+1.2W
205	1.00	AG1	G+1.35R2+C+1.2W
206	1.00	AG1	1.35G+R2+C+1.2W
207	1.00	AG1	1.35(G+R2)+C+1.5Q2
208	1.00	AG1	G+1.35R2+C+1.5Q2
209	1.00	AG1	1.35G+R2+C+1.5Q2
210	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2
211	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2
212	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2
213	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
214	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
215	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
216	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
217	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
218	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
219	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
220	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
221	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
222	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
223	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
224	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
225	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
226	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
227	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
228	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
229	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
230	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
231	1.00	AG1	1.35(G+R2)+C+1.5Q2+0.75T
232	1.00	AG1	G+1.35R2+C+1.5Q2+0.75T
233	1.00	AG1	1.35G+R2+C+1.5Q2+0.75T
234	1.00	AG1	1.35(G+R2)+C+1.2W+1.5Q2+0.75T
235	1.00	AG1	G+1.35R2+C+1.2W+1.5Q2+0.75T
236	1.00	AG1	1.35G+R2+C+1.2W+1.5Q2+0.75T
237	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
238	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
239	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
240	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
241	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
242	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
243	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
244	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
245	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
246	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
247	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
248	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
249	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
250	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
251	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ

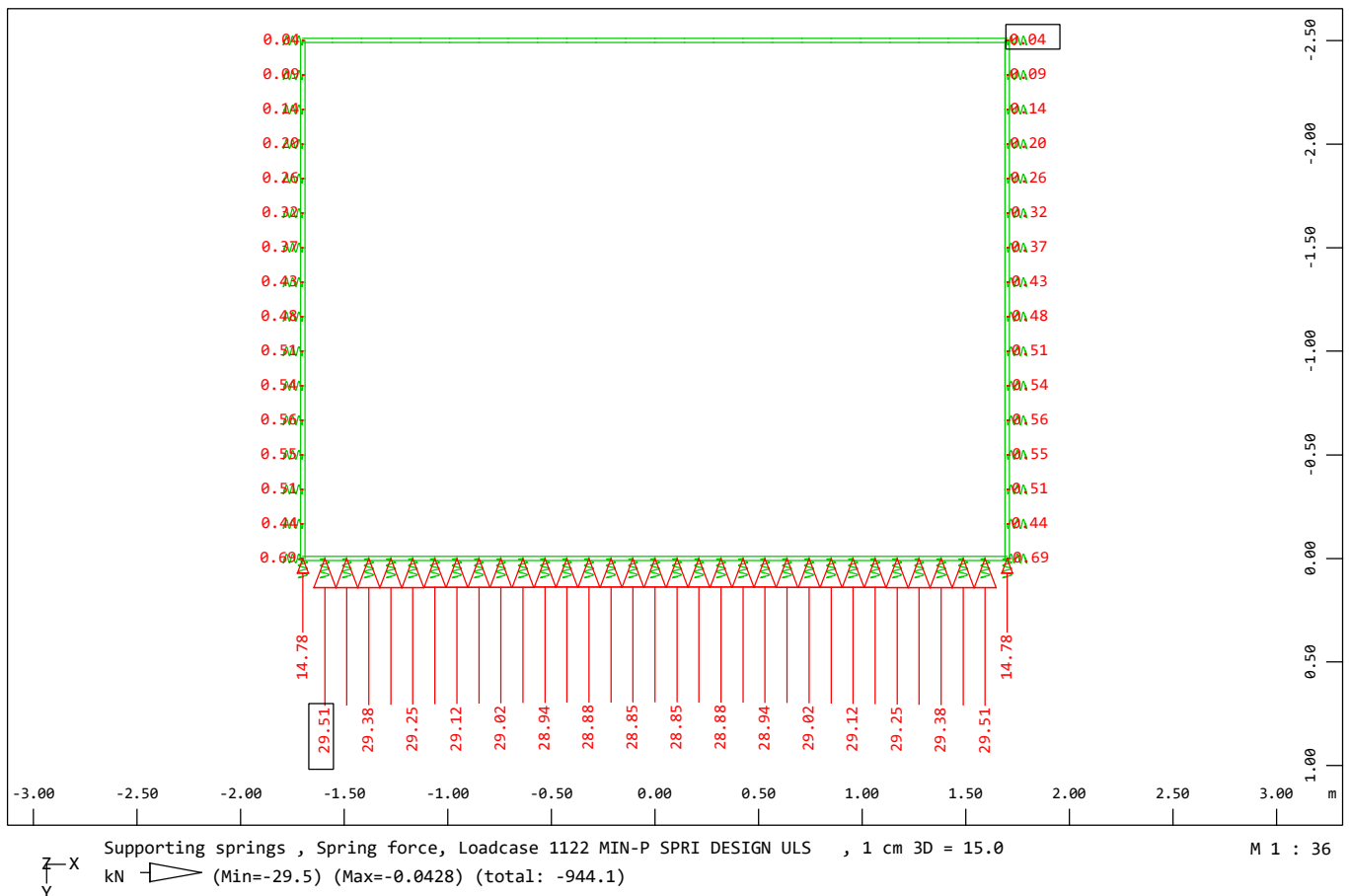
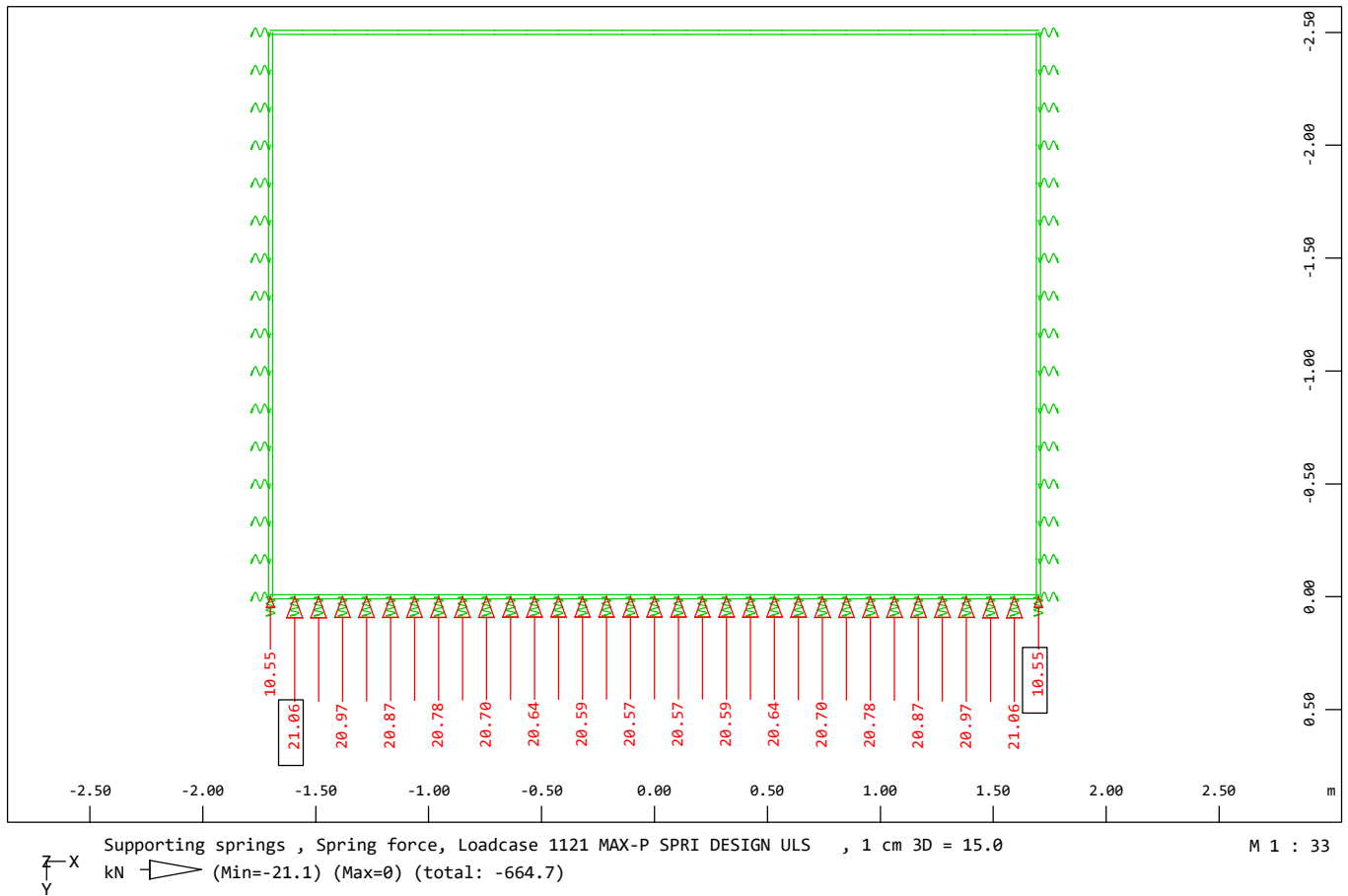
Load Case selection

Number	Fact	Type	Designation
252	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
253	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
254	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
255	1.00	AG1	1.35(G+R2)+C+0.9Q2+1.5T
256	1.00	AG1	G+1.35R2+C+0.9Q2+1.5T
257	1.00	AG1	1.35G+R2+C+0.9Q2+1.5T
258	1.00	AG1	1.35(G+R2)+C+1.2W+0.9Q2+1.5T
259	1.00	AG1	G+1.35R2+C+1.2W+0.9Q2+1.5T
260	1.00	AG1	1.35G+R2+C+1.2W+0.9Q2+1.5T
261	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
262	1.00	AG1	G+1.35R2+C+1.2W+1.5T
263	1.00	AG1	1.35G+R2+C+1.2W+1.5T
264	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
265	1.00	AG1	G+1.35R2+C+1.2W+1.5T
266	1.00	AG1	1.35G+R2+C+1.2W+1.5T
267	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
268	1.00	AG1	G+1.35R2+C+1.2W+1.5T
269	1.00	AG1	1.35G+R2+C+1.2W+1.5T
270	1.00	AG1	1.35(G+R2)+C+1.2W+1.5T
271	1.00	AG1	G+1.35R2+C+1.2W+1.5T
272	1.00	AG1	1.35G+R2+C+1.2W+1.5T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

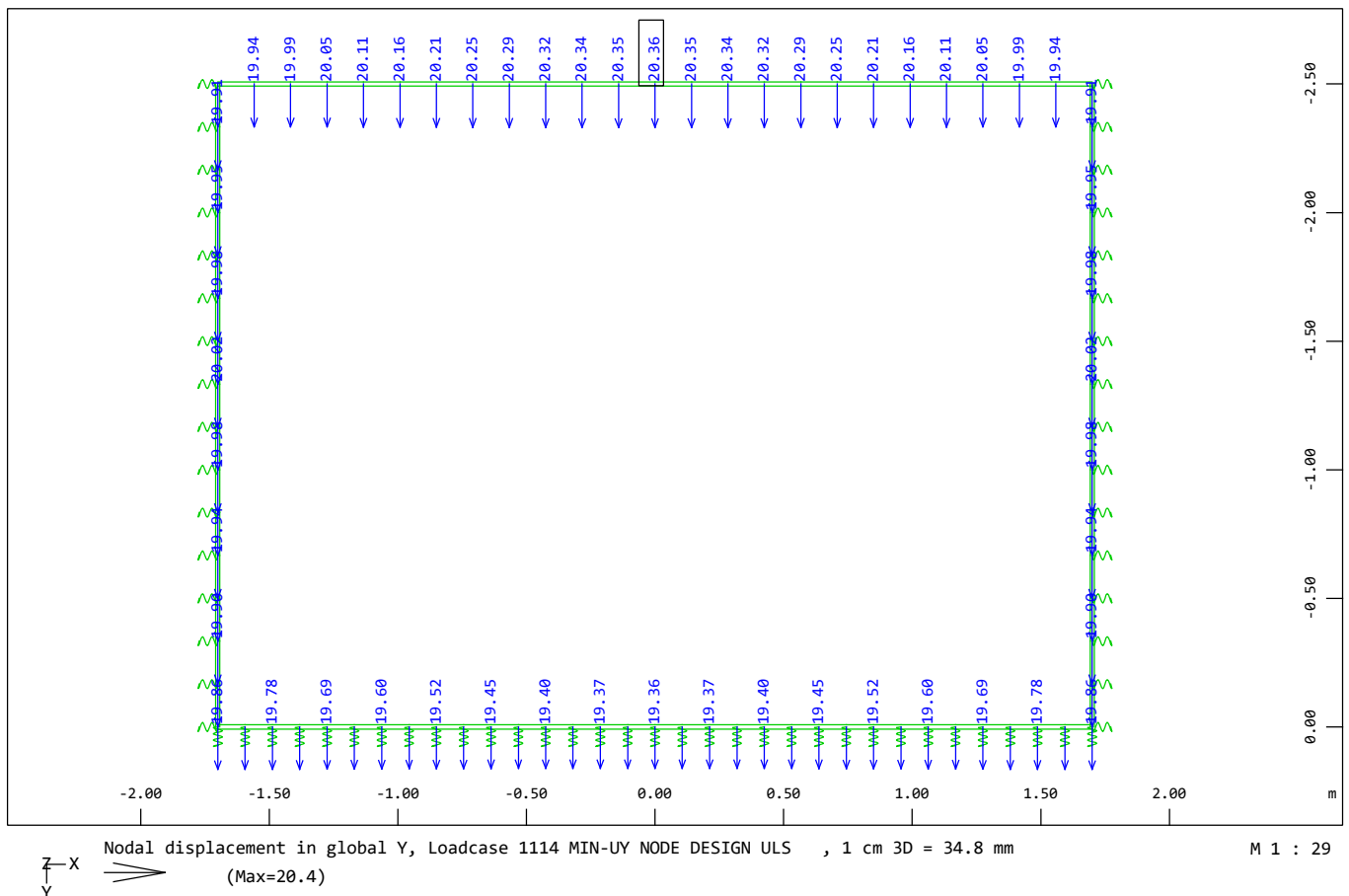
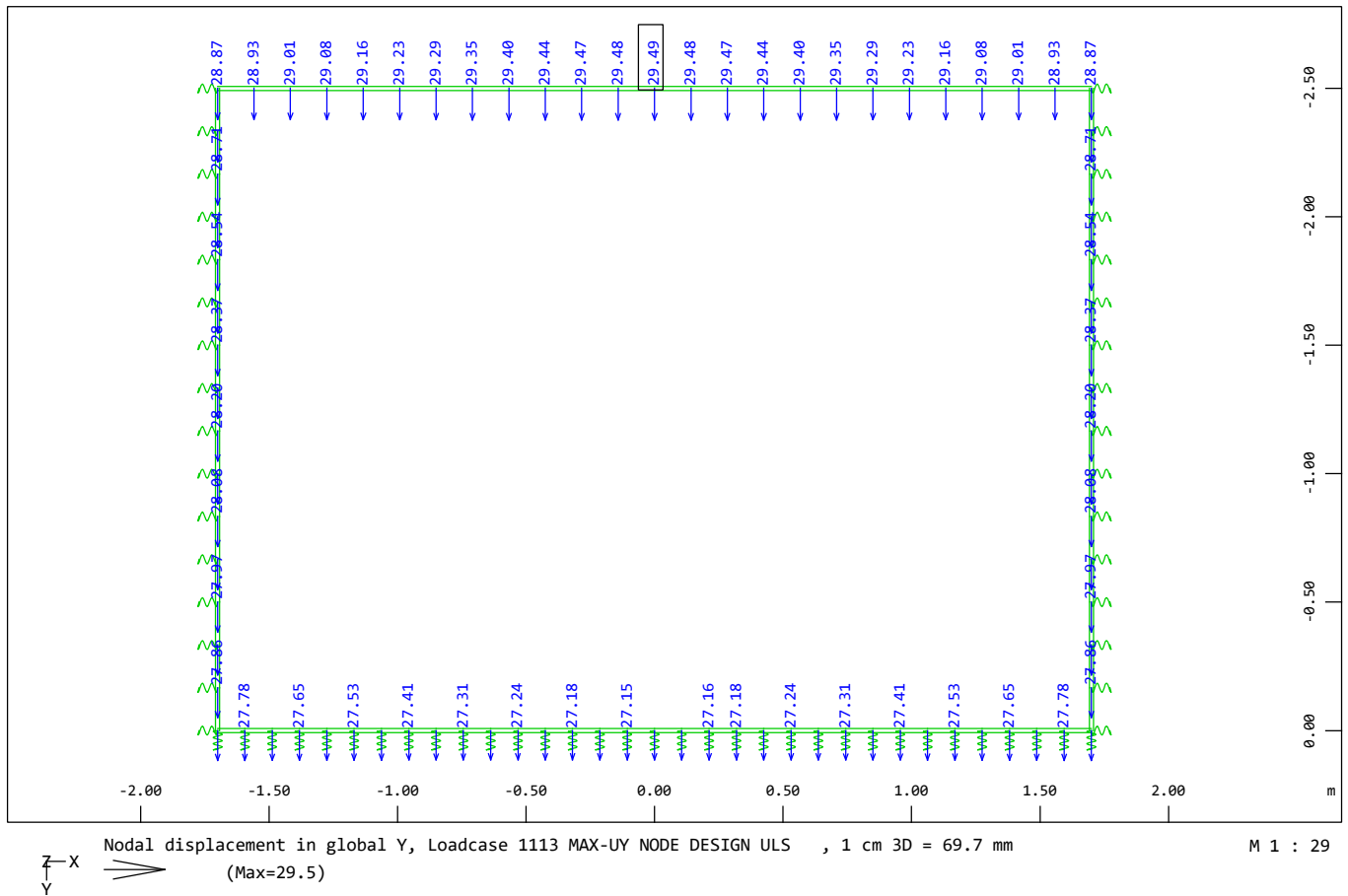
Number	Combination	Designation
1101	1	MAX-N BEAM DESIGN ULS
1102	1	MIN-N BEAM DESIGN ULS
1103	1	MAX-MY BEAM DESIGN ULS
1104	1	MIN-MY BEAM DESIGN ULS
1105	1	MAX-VZ BEAM DESIGN ULS
1106	1	MIN-VZ BEAM DESIGN ULS
1111	1	MAX-UX NODE DESIGN ULS
1112	1	MIN-UX NODE DESIGN ULS
1113	1	MAX-UY NODE DESIGN ULS
1114	1	MIN-UY NODE DESIGN ULS
1121	1	MAX-P SPRI DESIGN ULS
1122	1	MIN-P SPRI DESIGN ULS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΑΝΤΙΔΡΑΣΕΙΣ ΕΛΑΤΗΡΙΩΝ

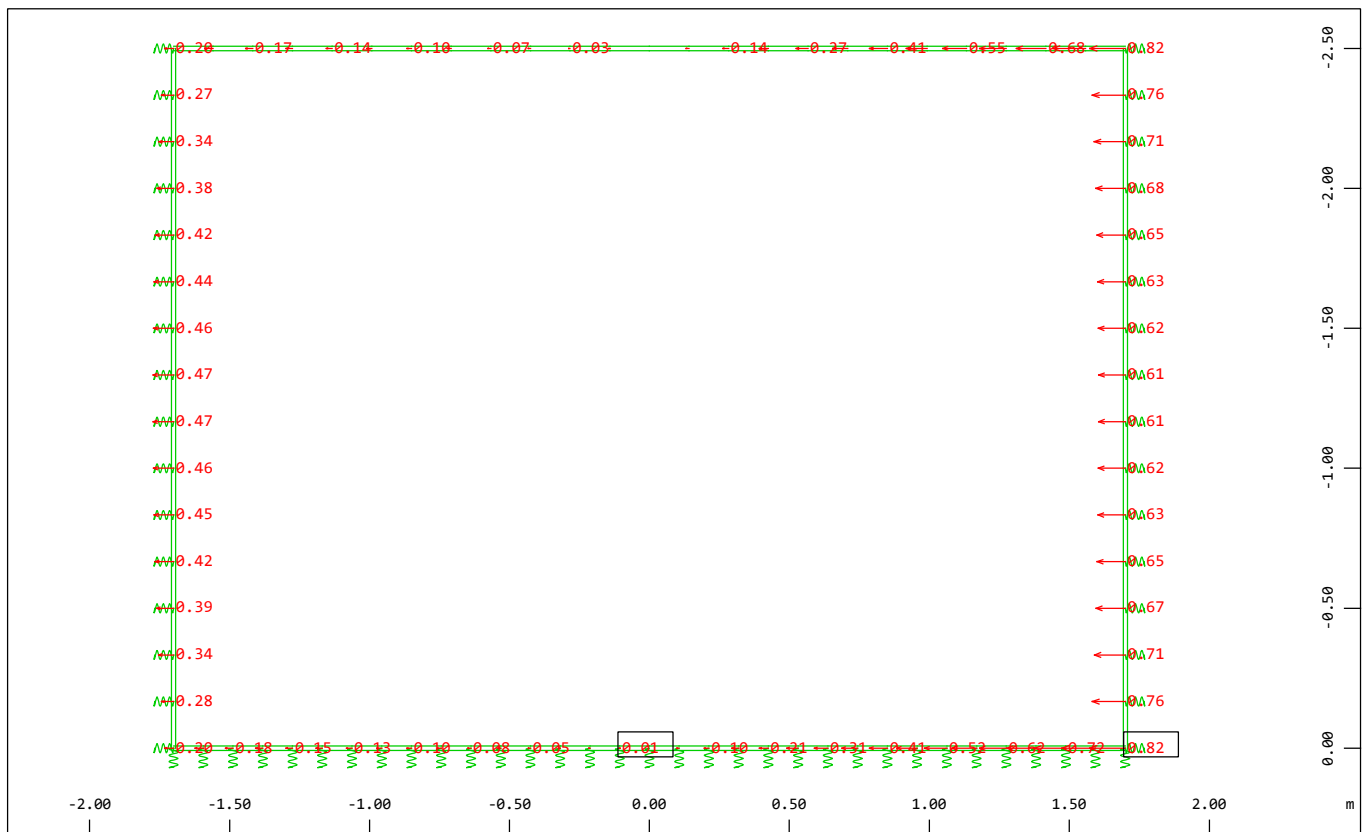
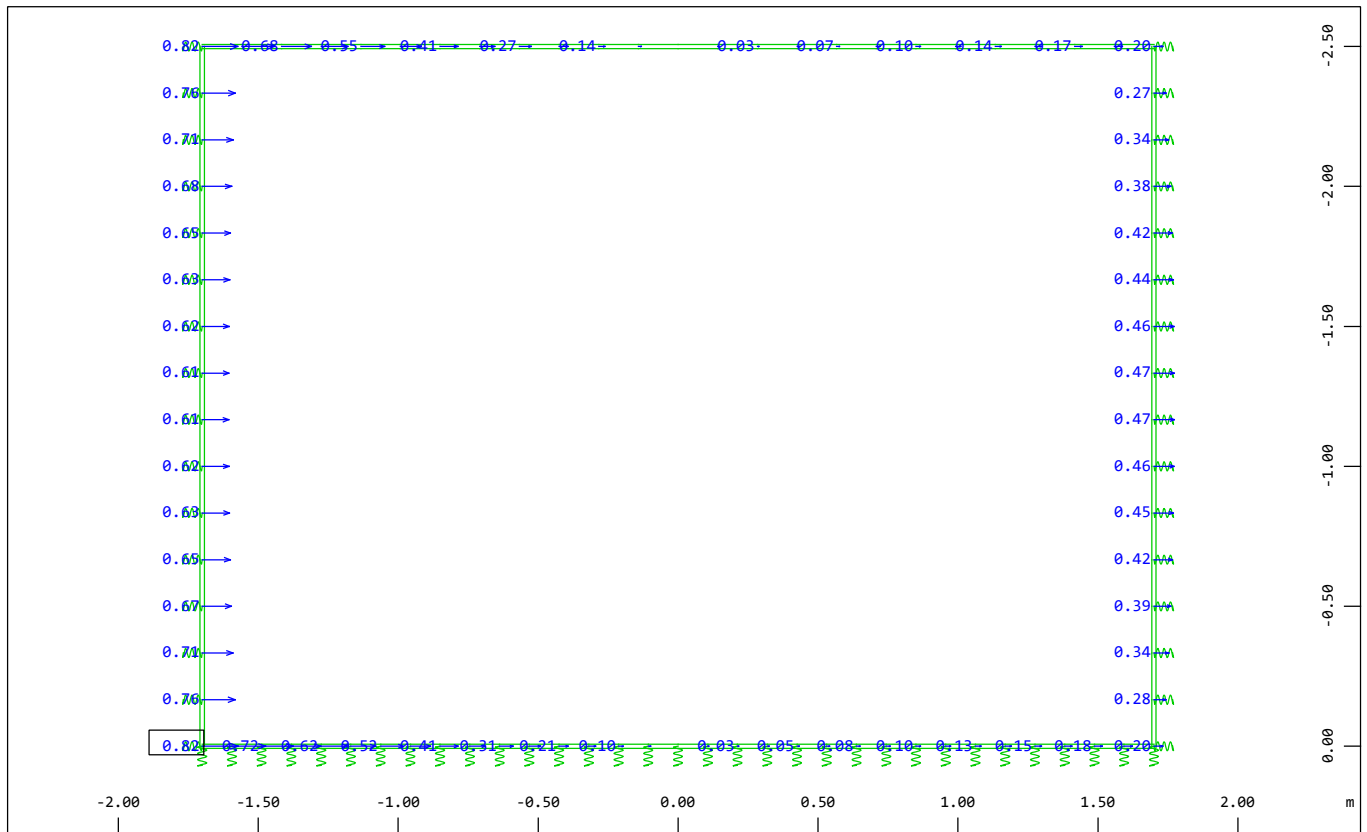


ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ

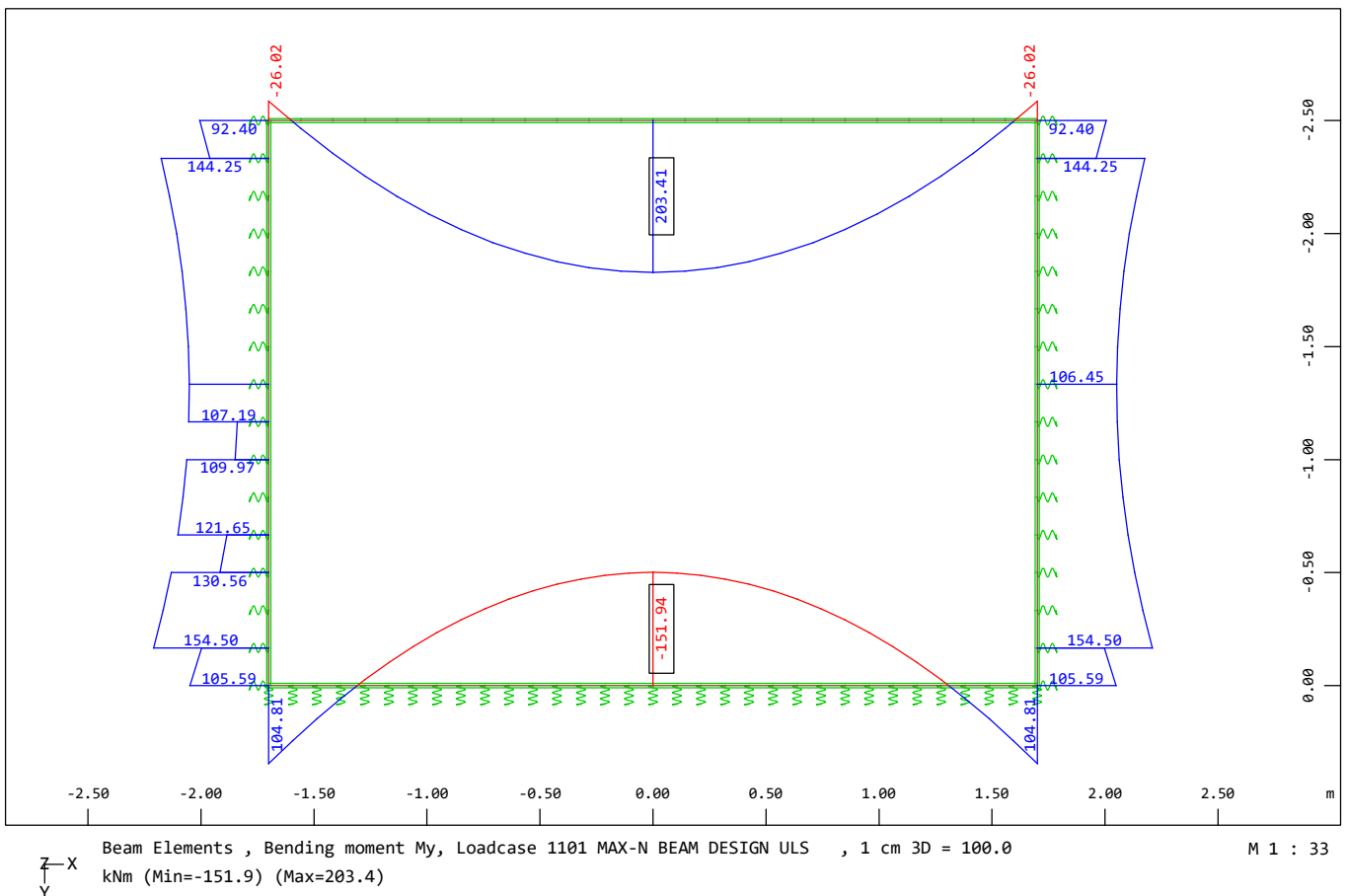
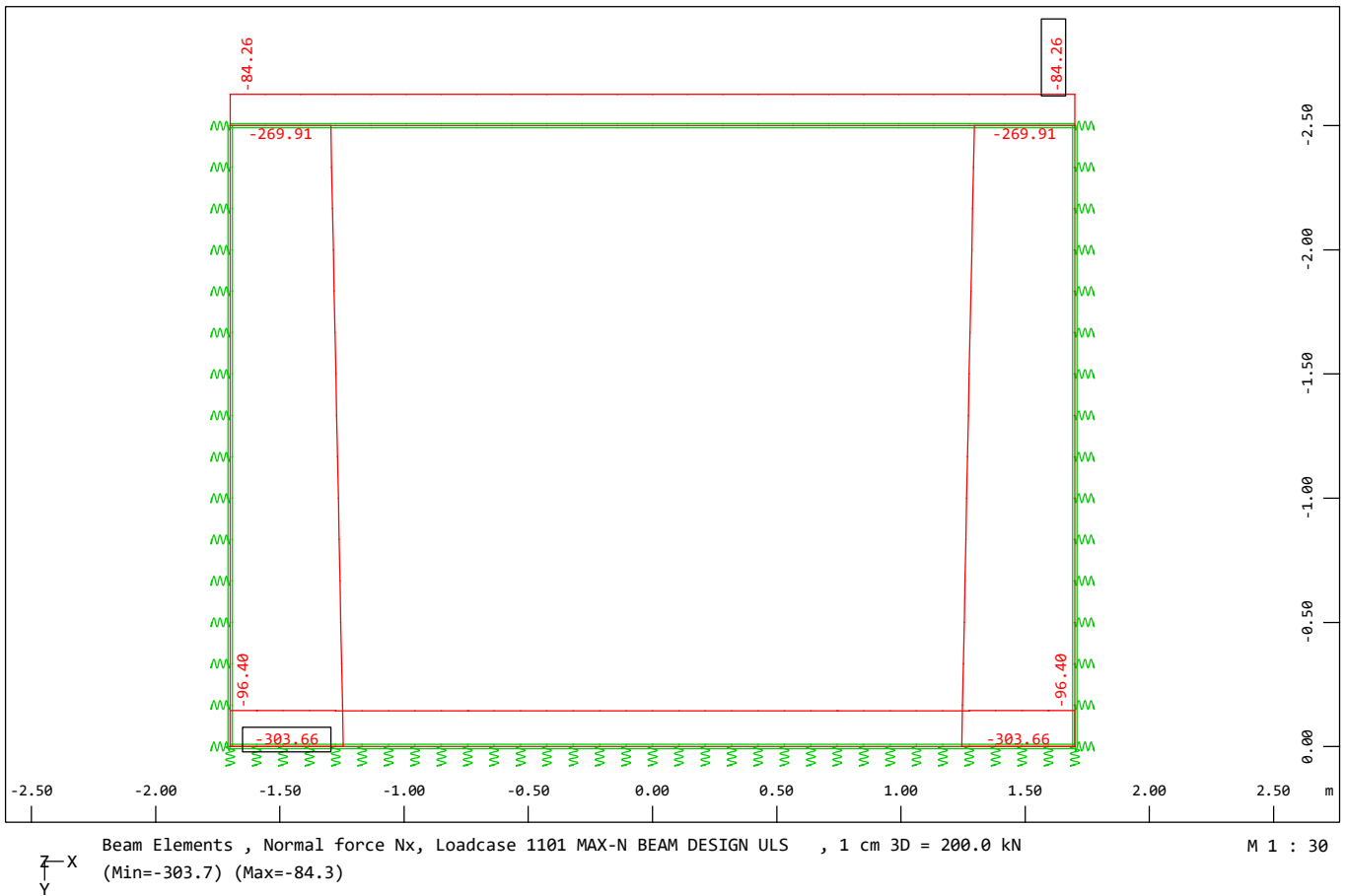
SOFiSTiK AG - www.sofistik.de



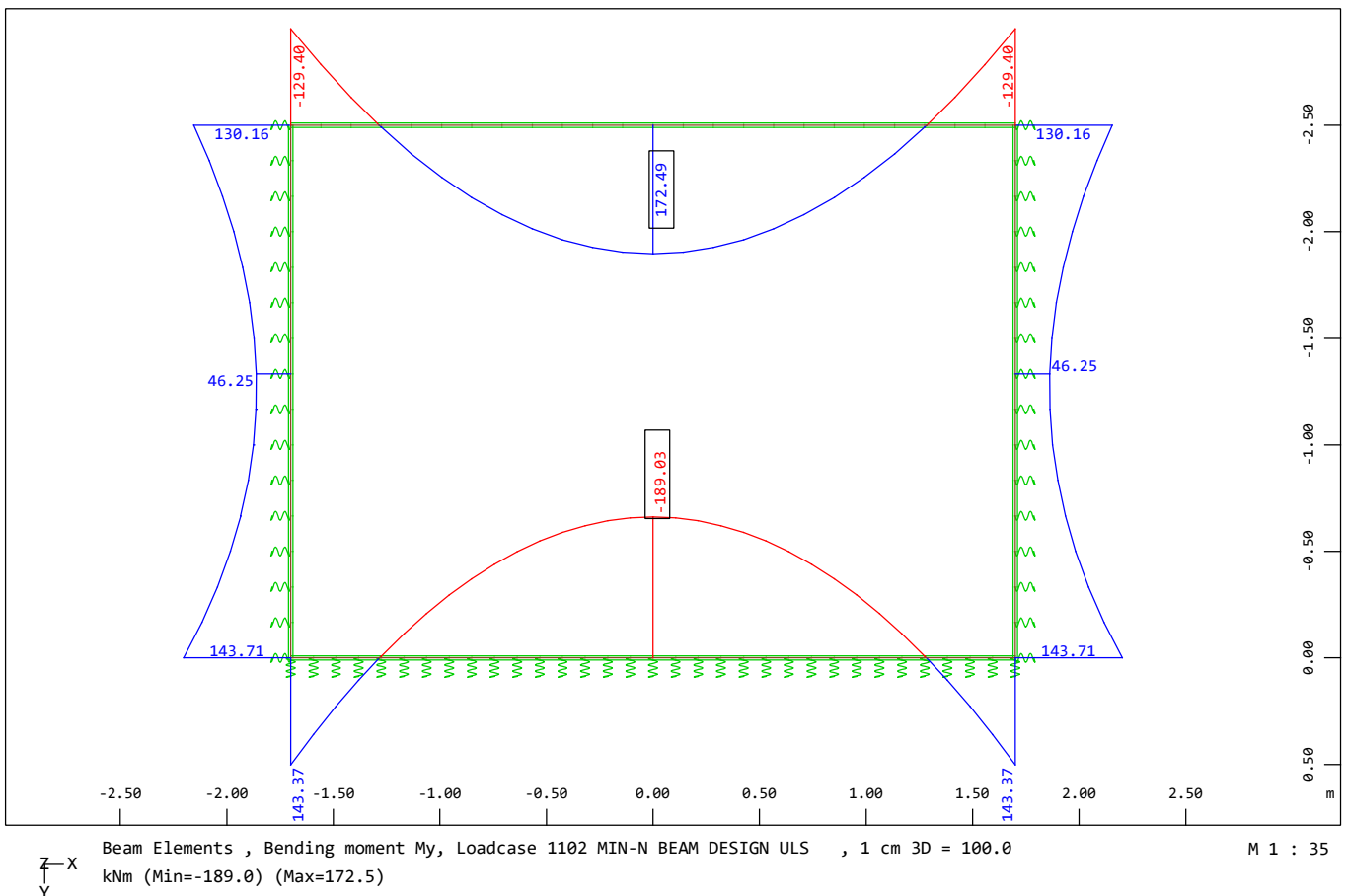
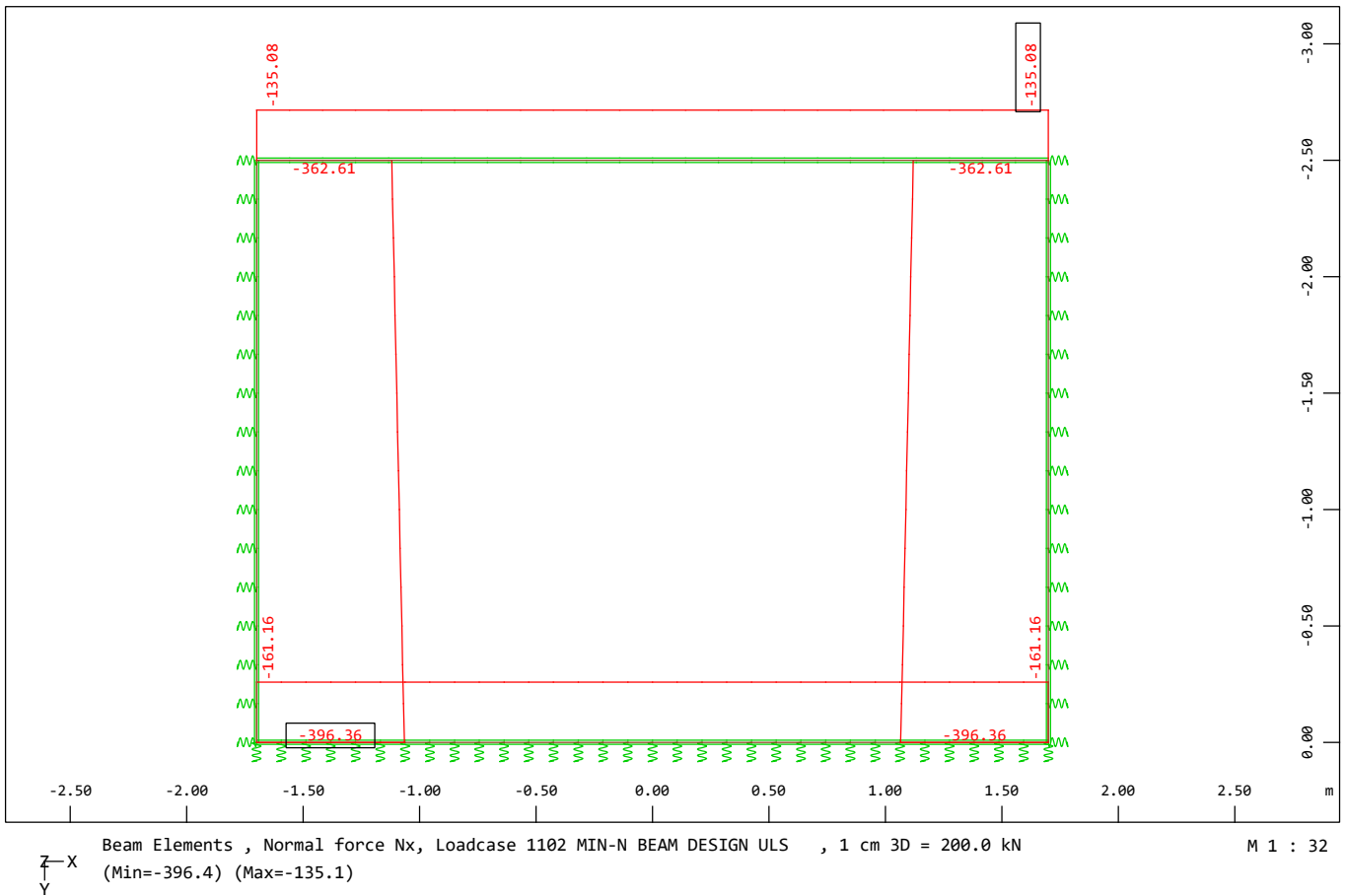
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΠΑΡΑΜΟΡΦΩΣΕΙΣ



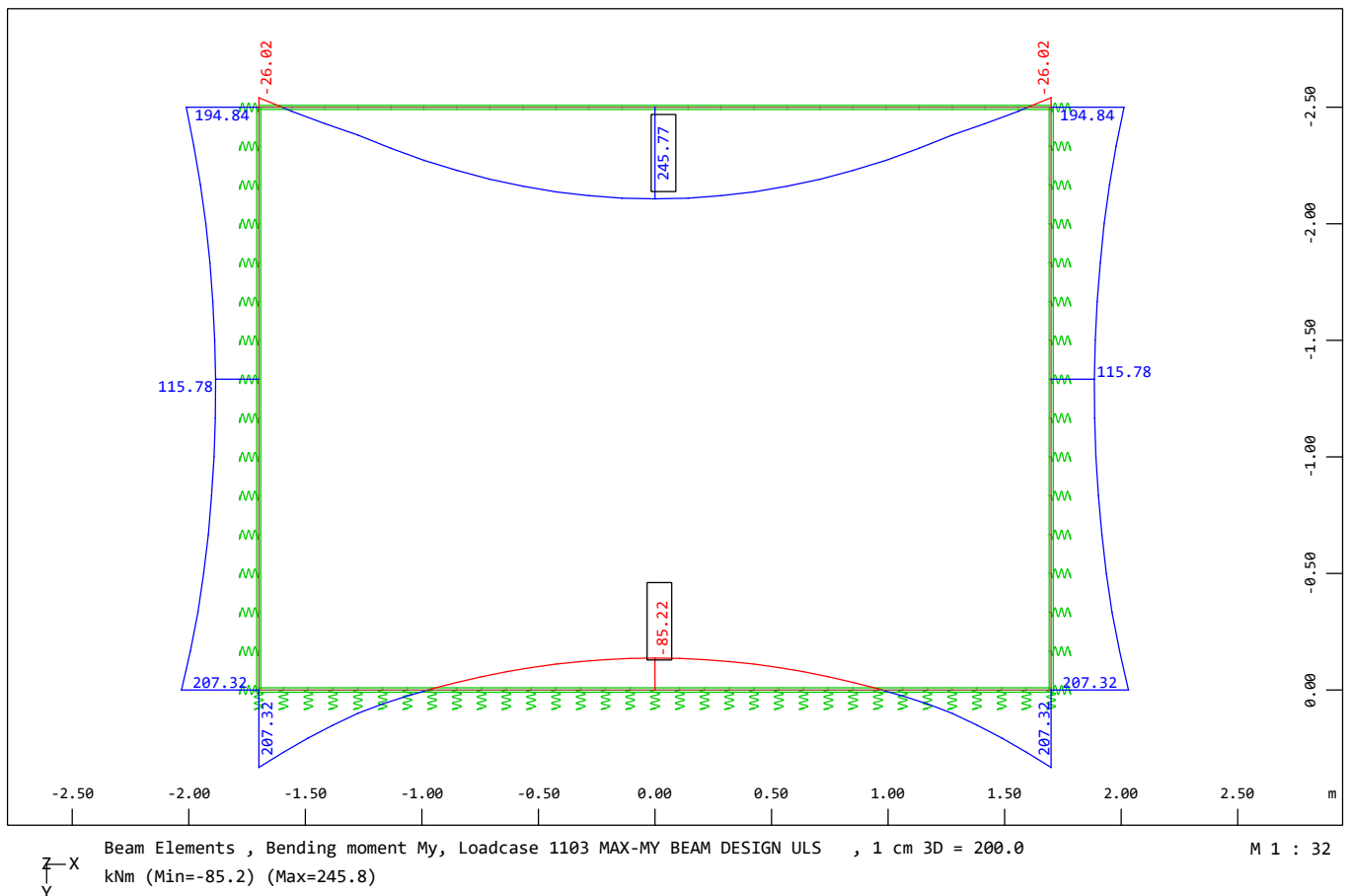
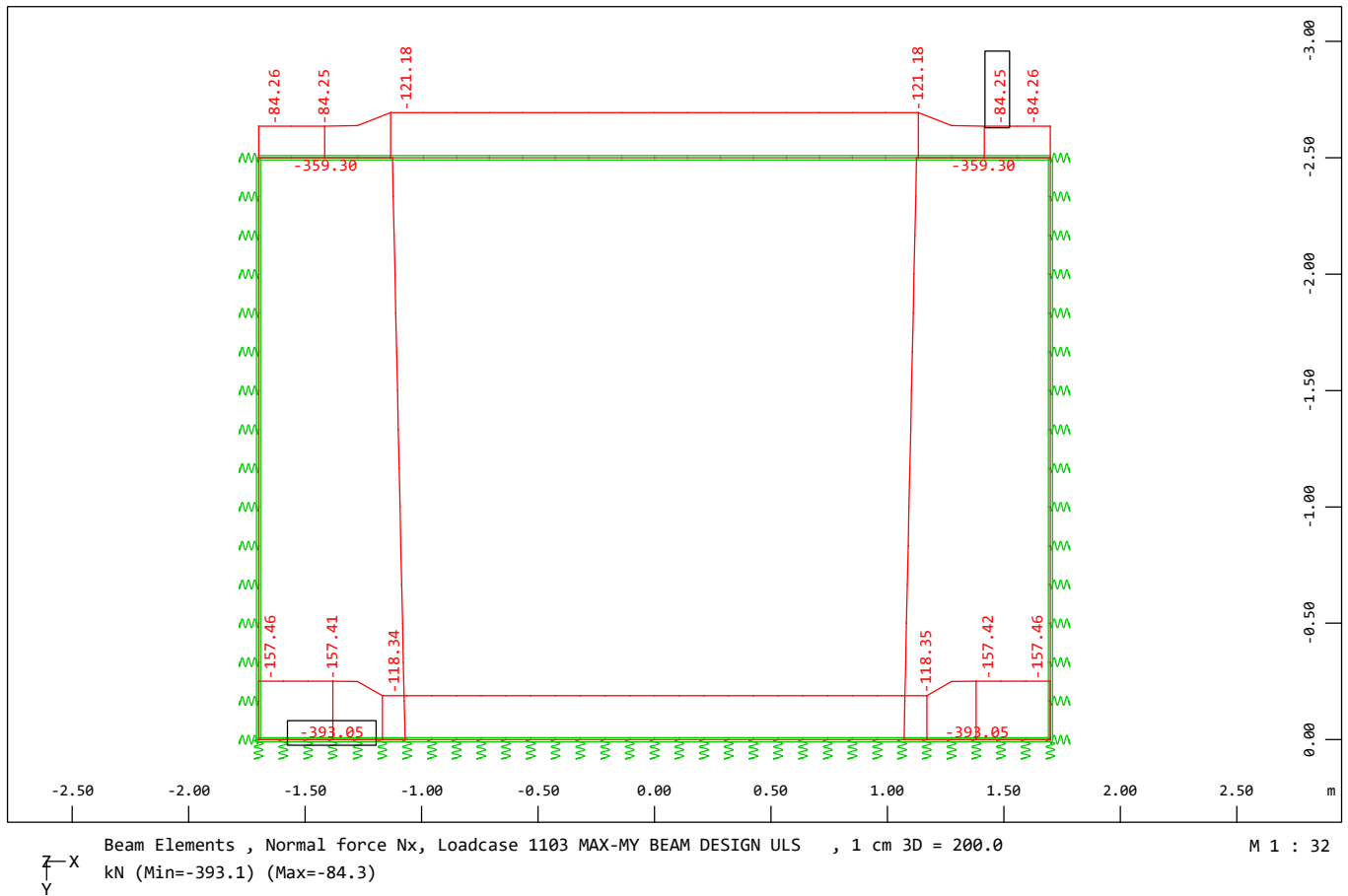
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- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



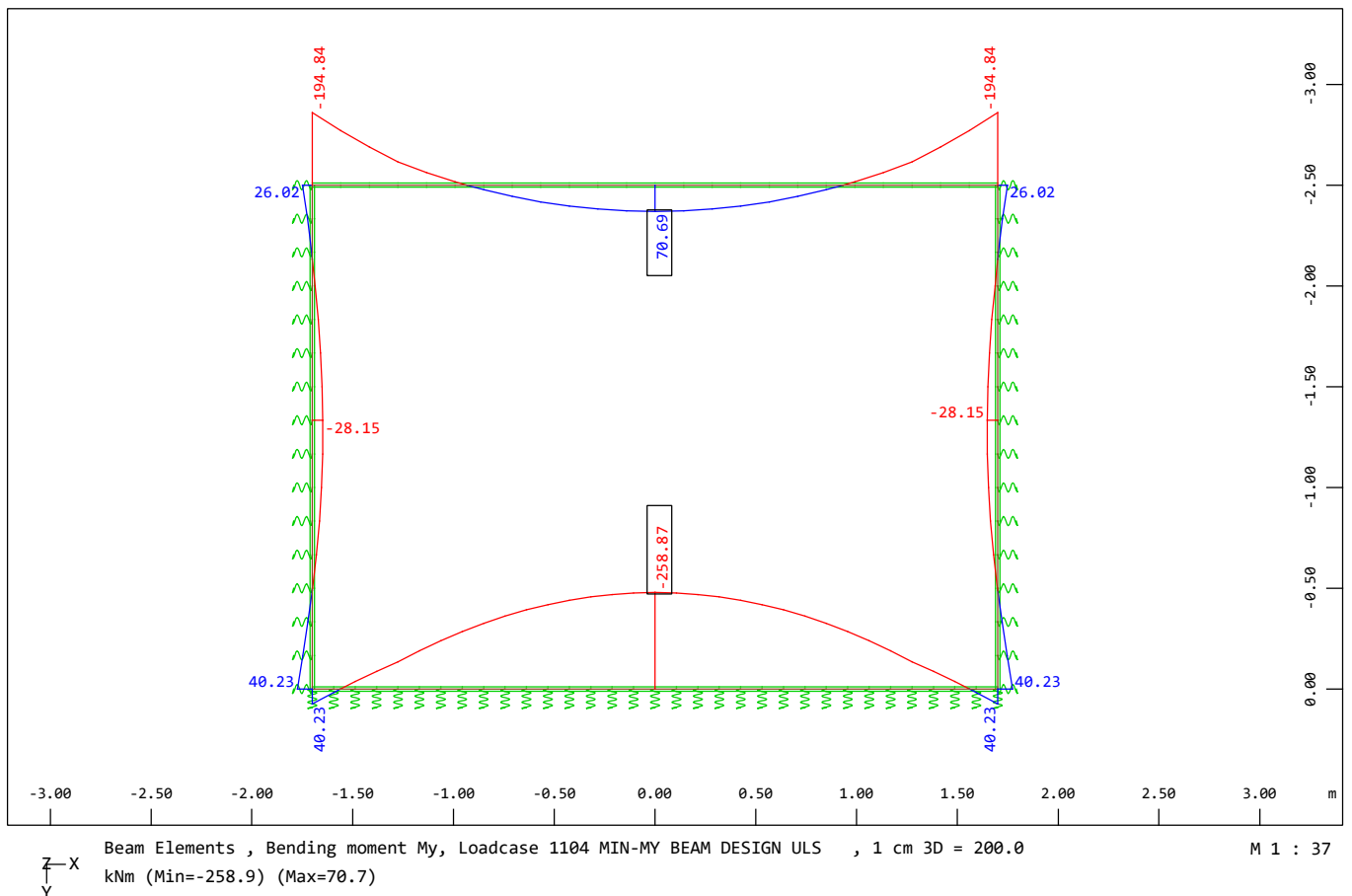
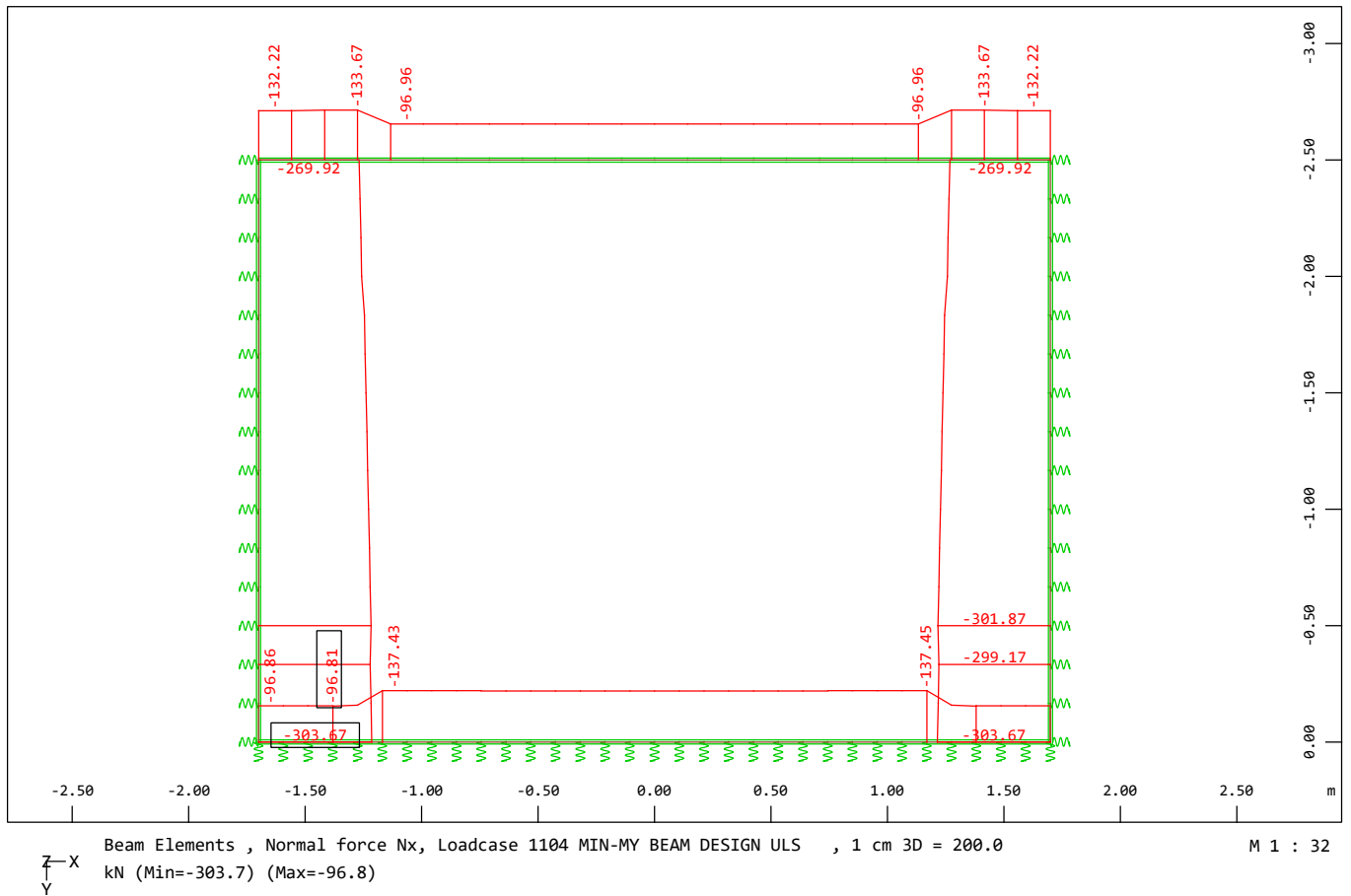
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



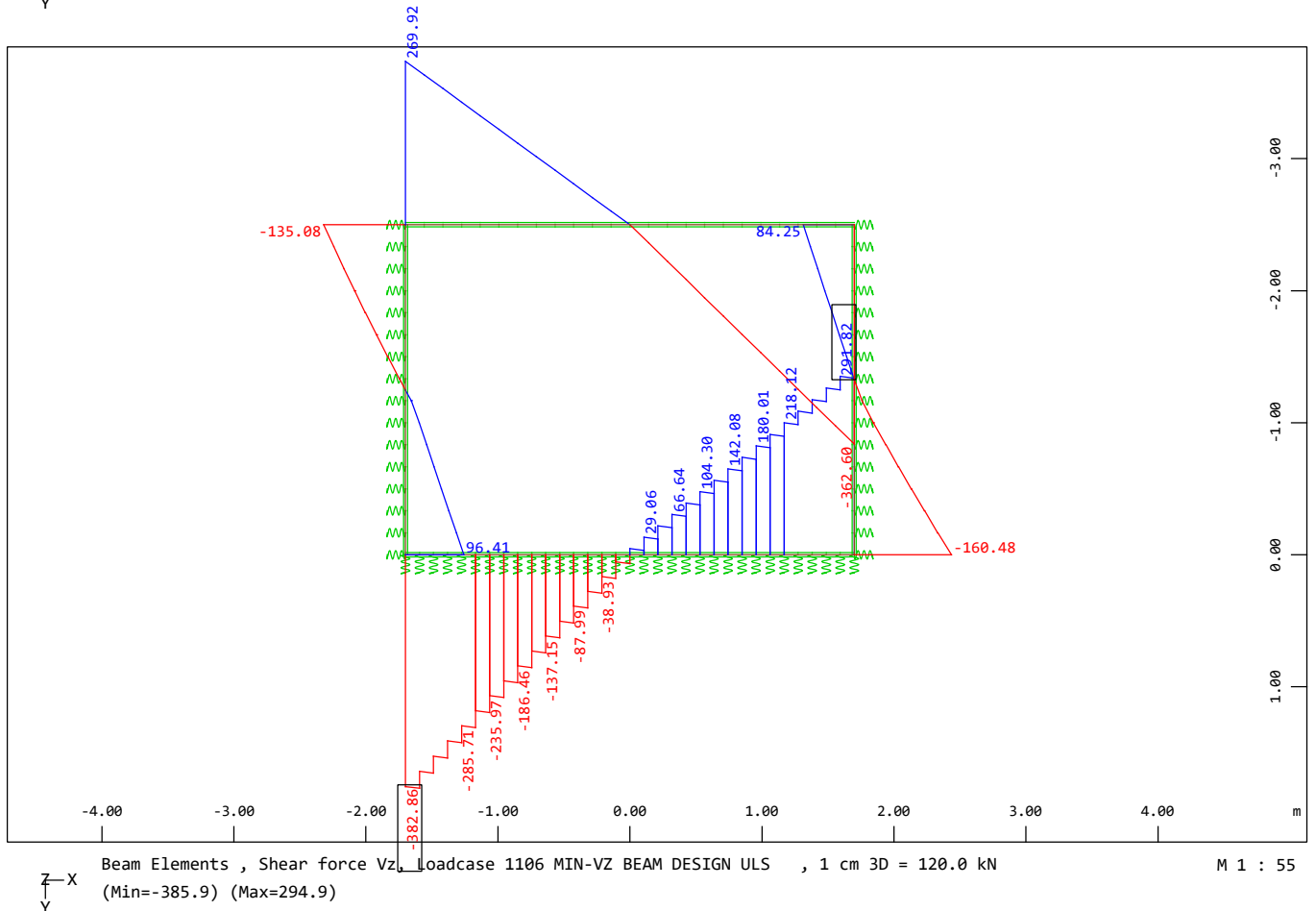
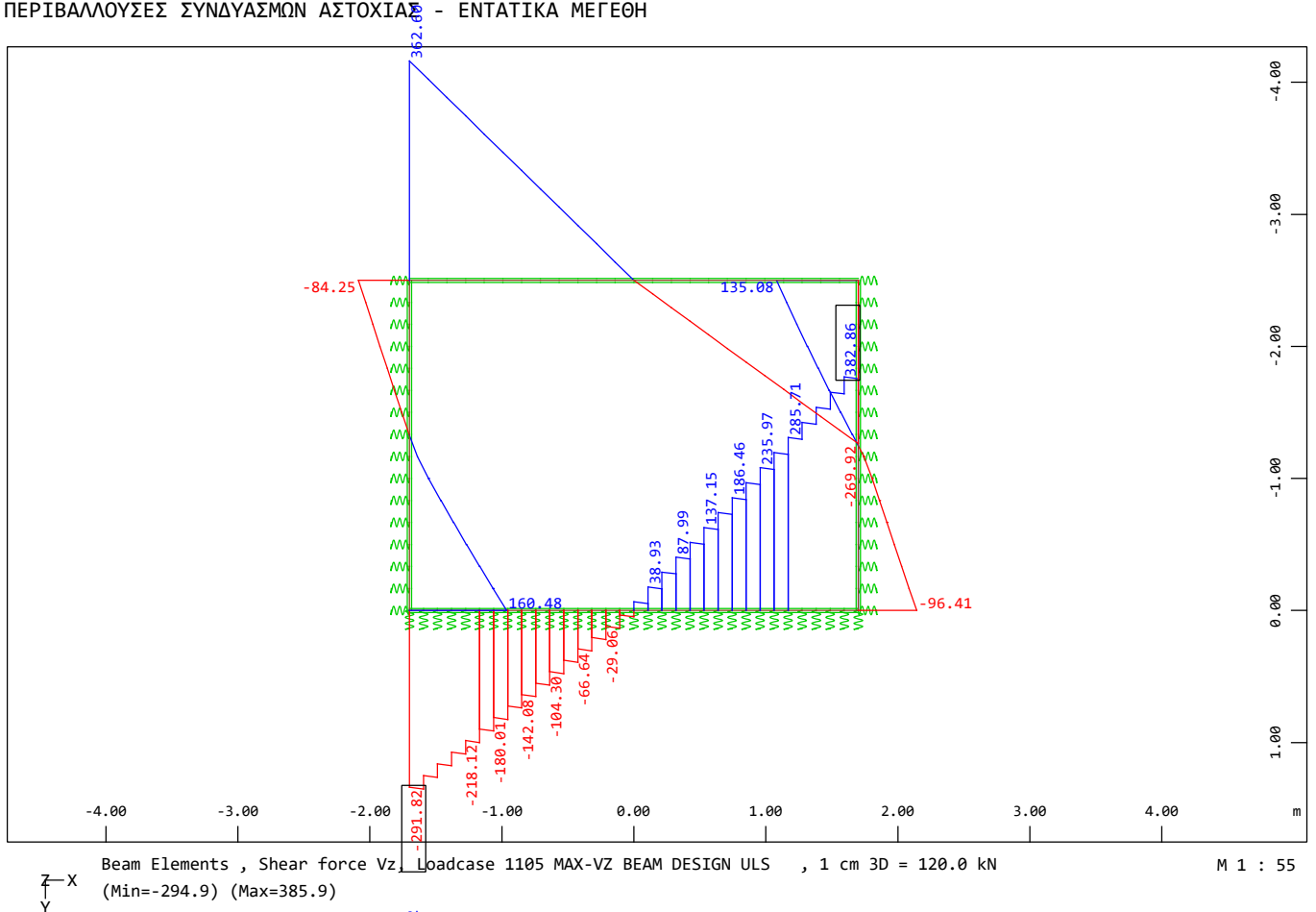
ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΠΕΡΙΒΑΛΛΟΥΣΕΣ ΣΥΝΔΥΑΣΜΩΝ ΑΣΤΟΧΙΑΣ - ΕΝΤΑΤΙΚΑ ΜΕΓΕΘΗ



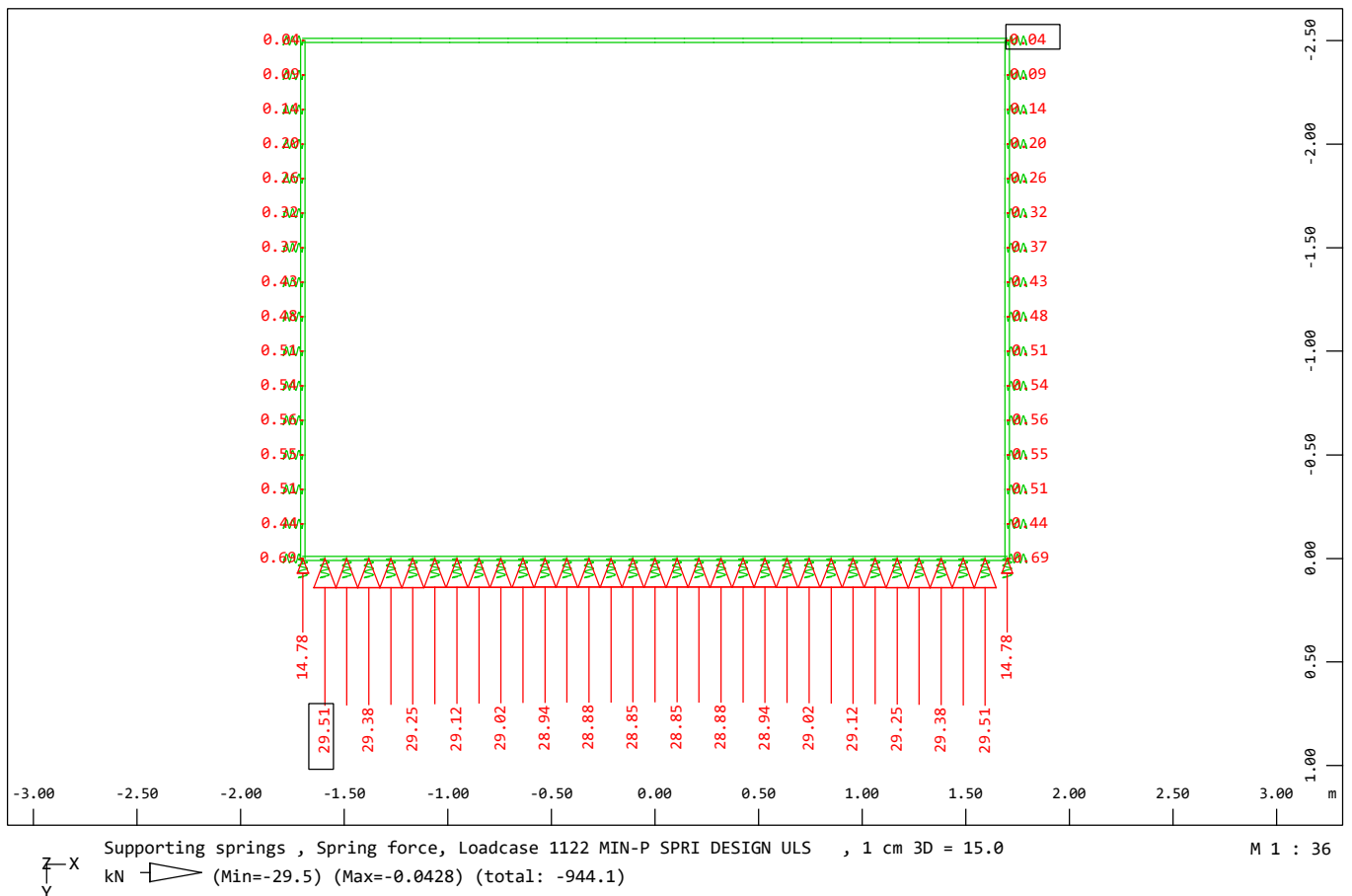
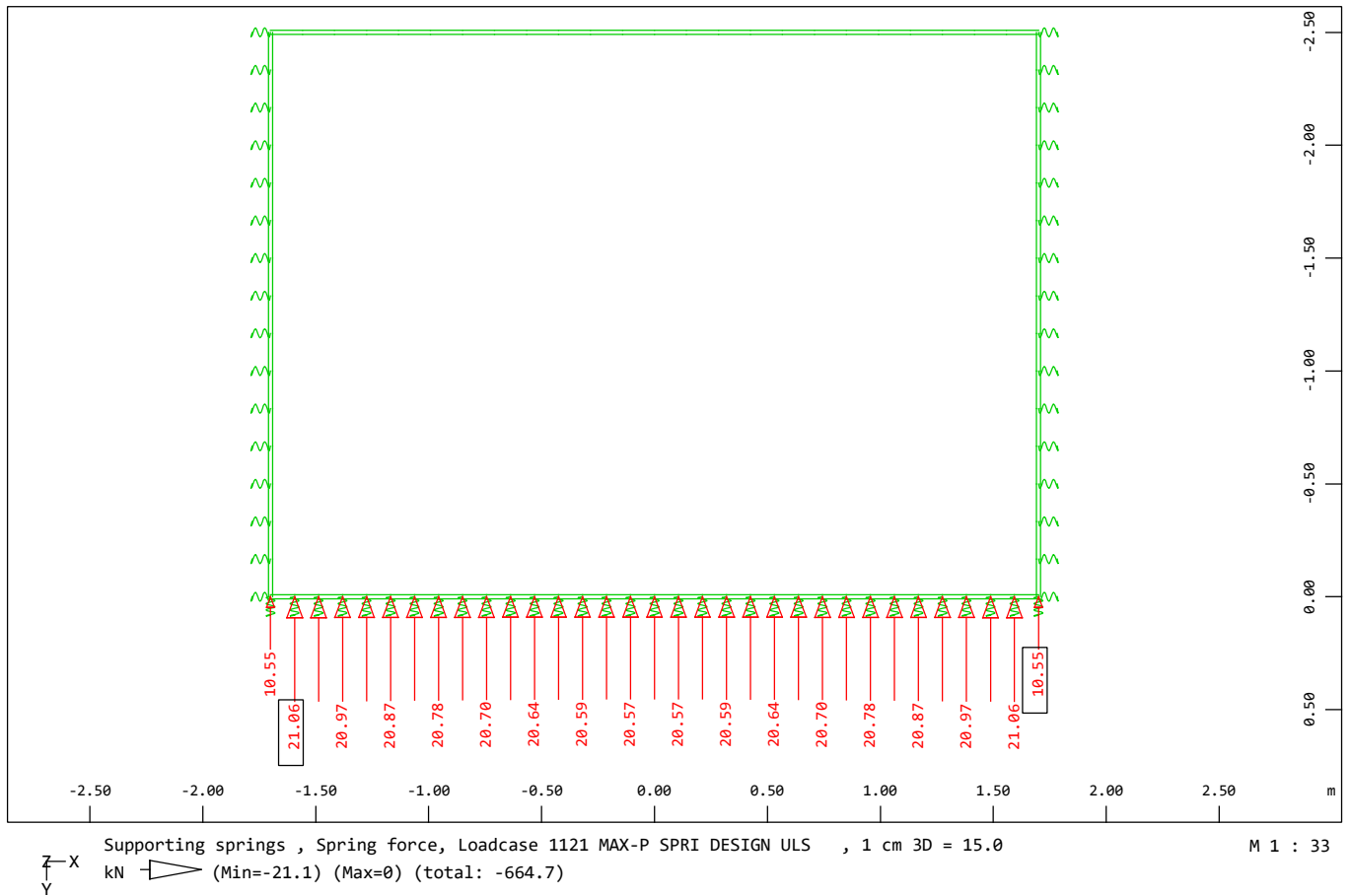
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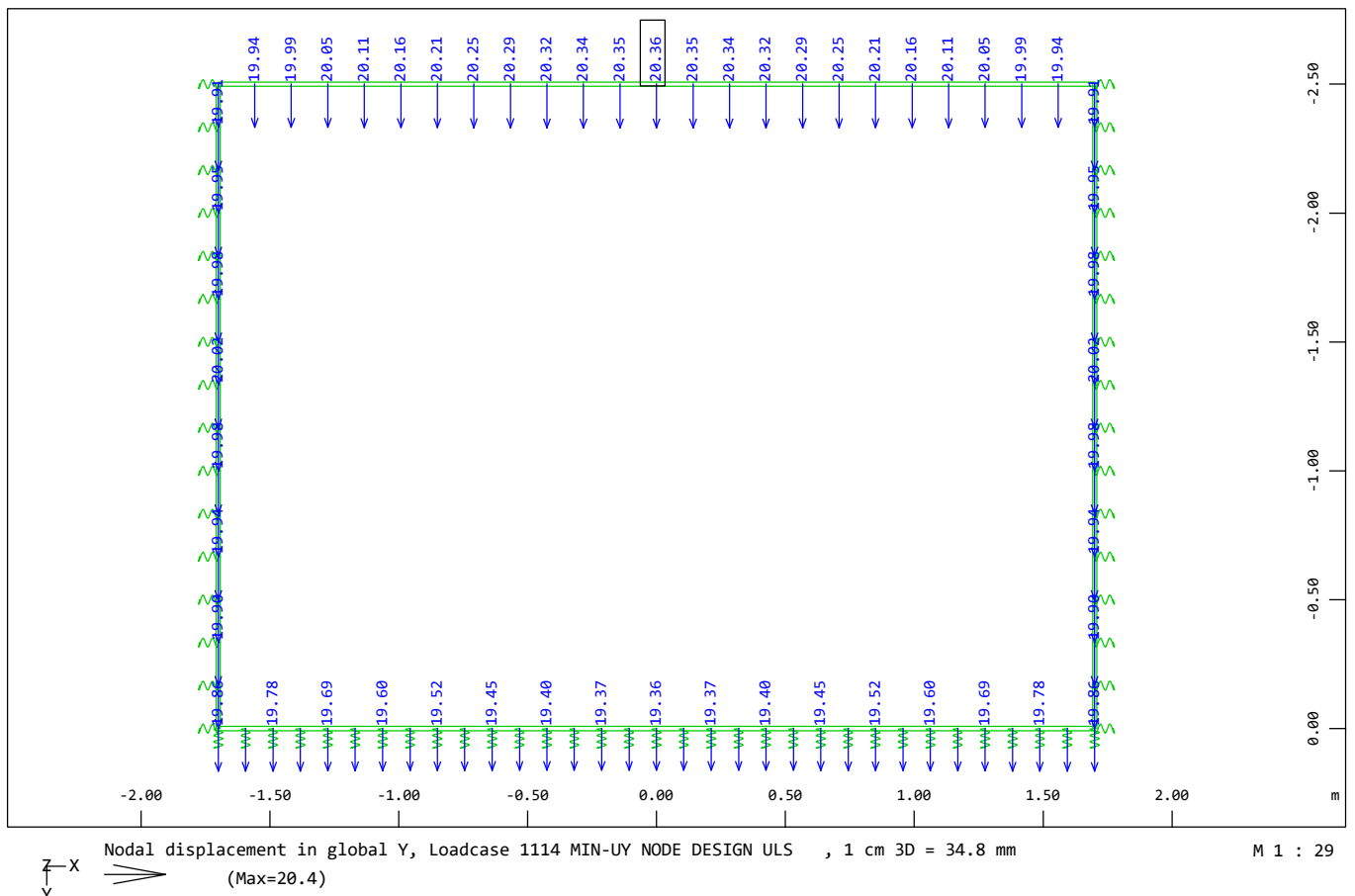
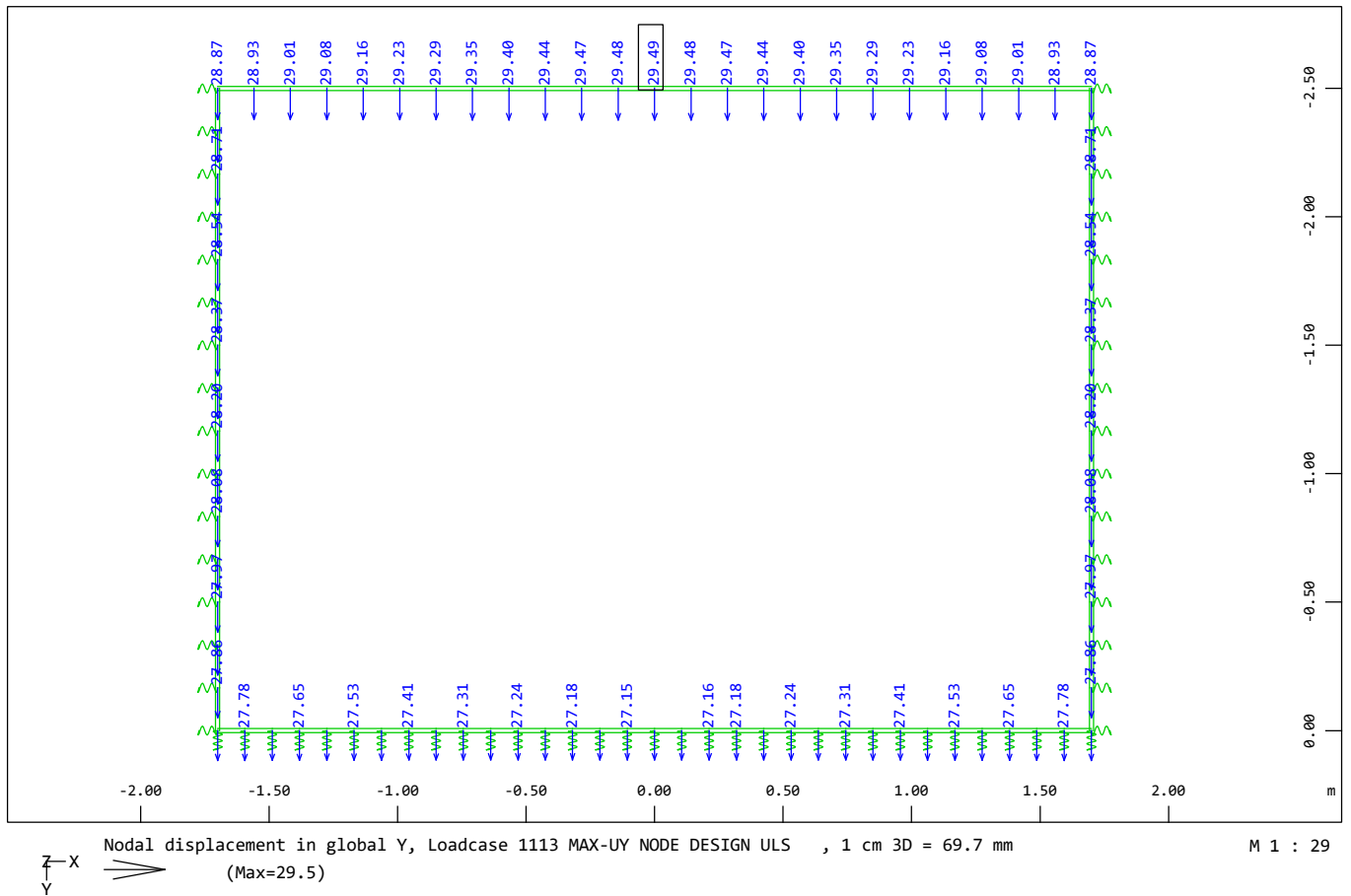


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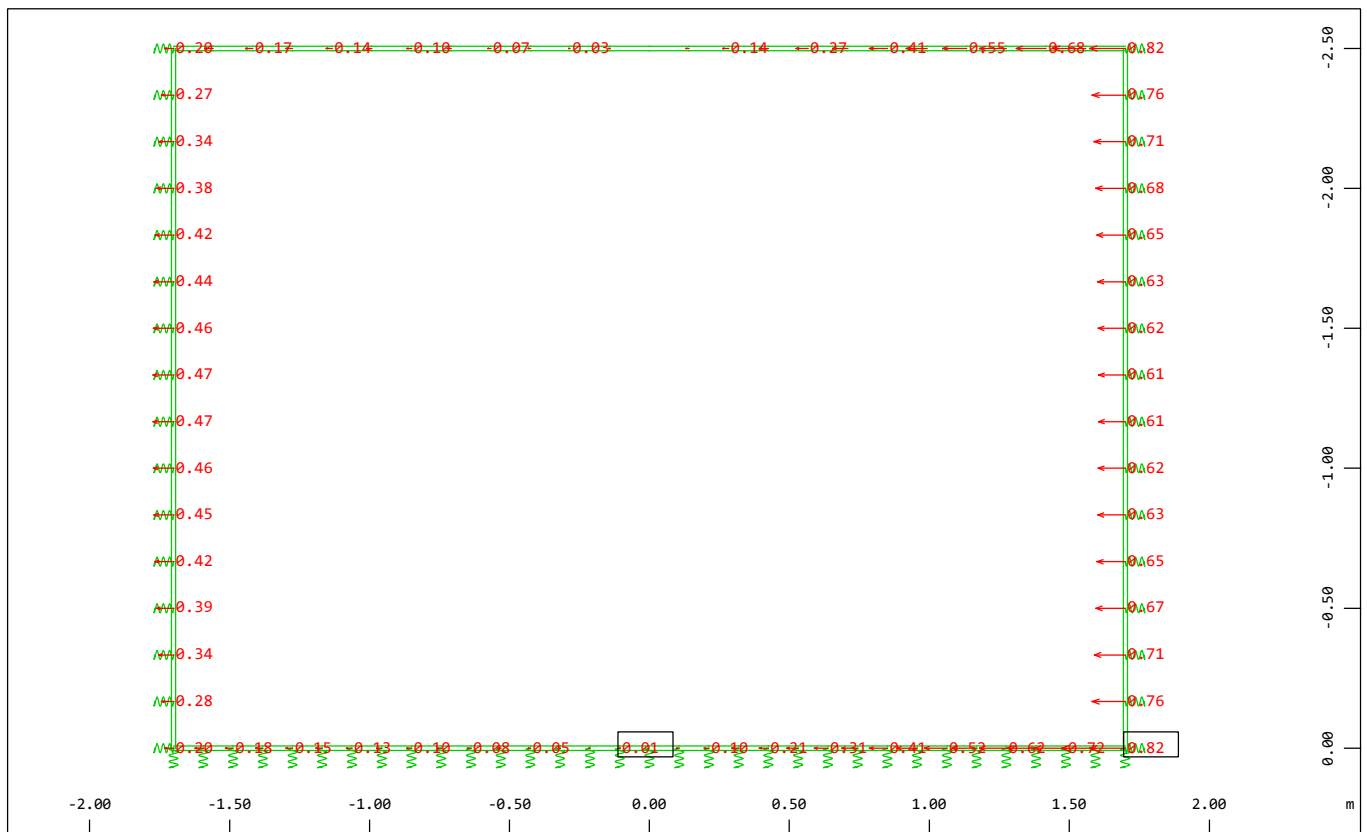
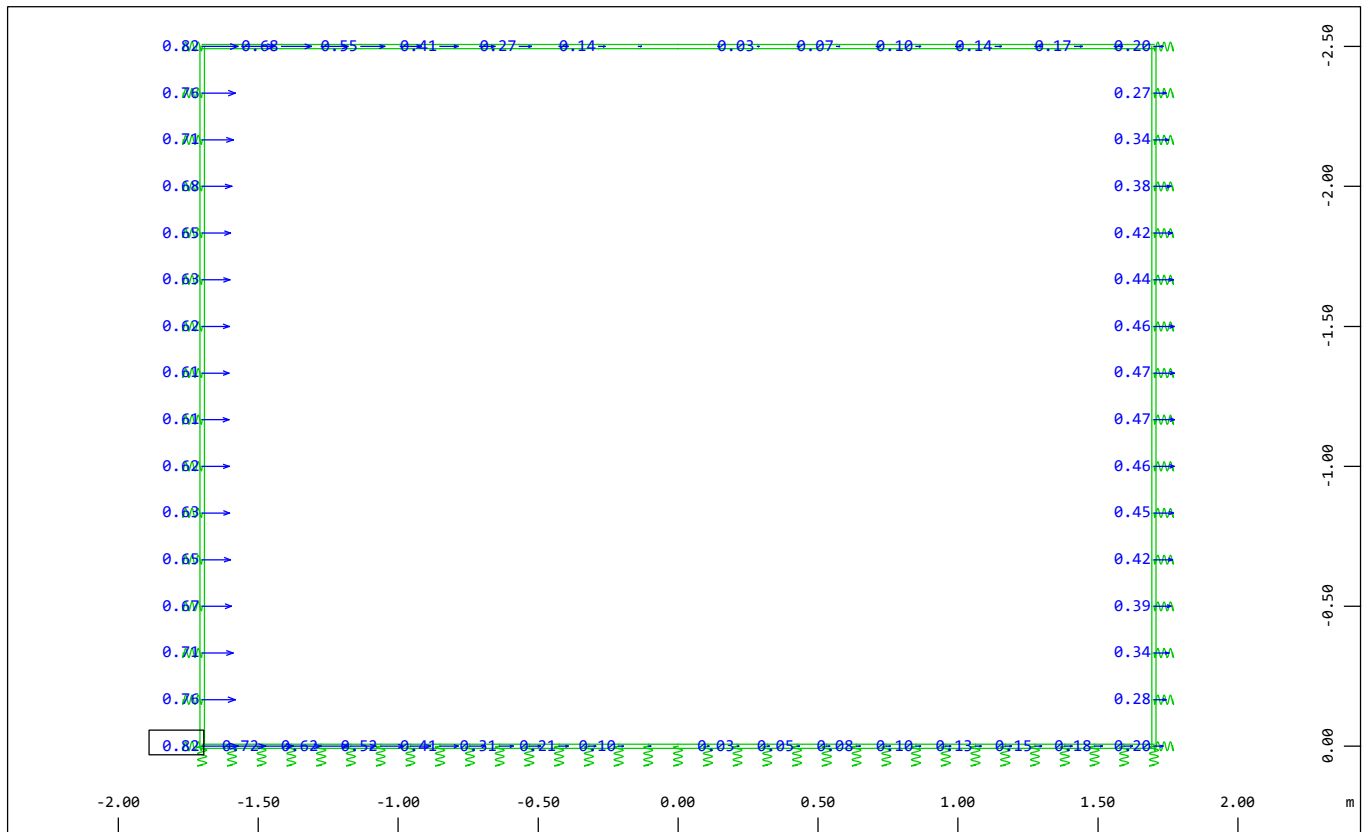


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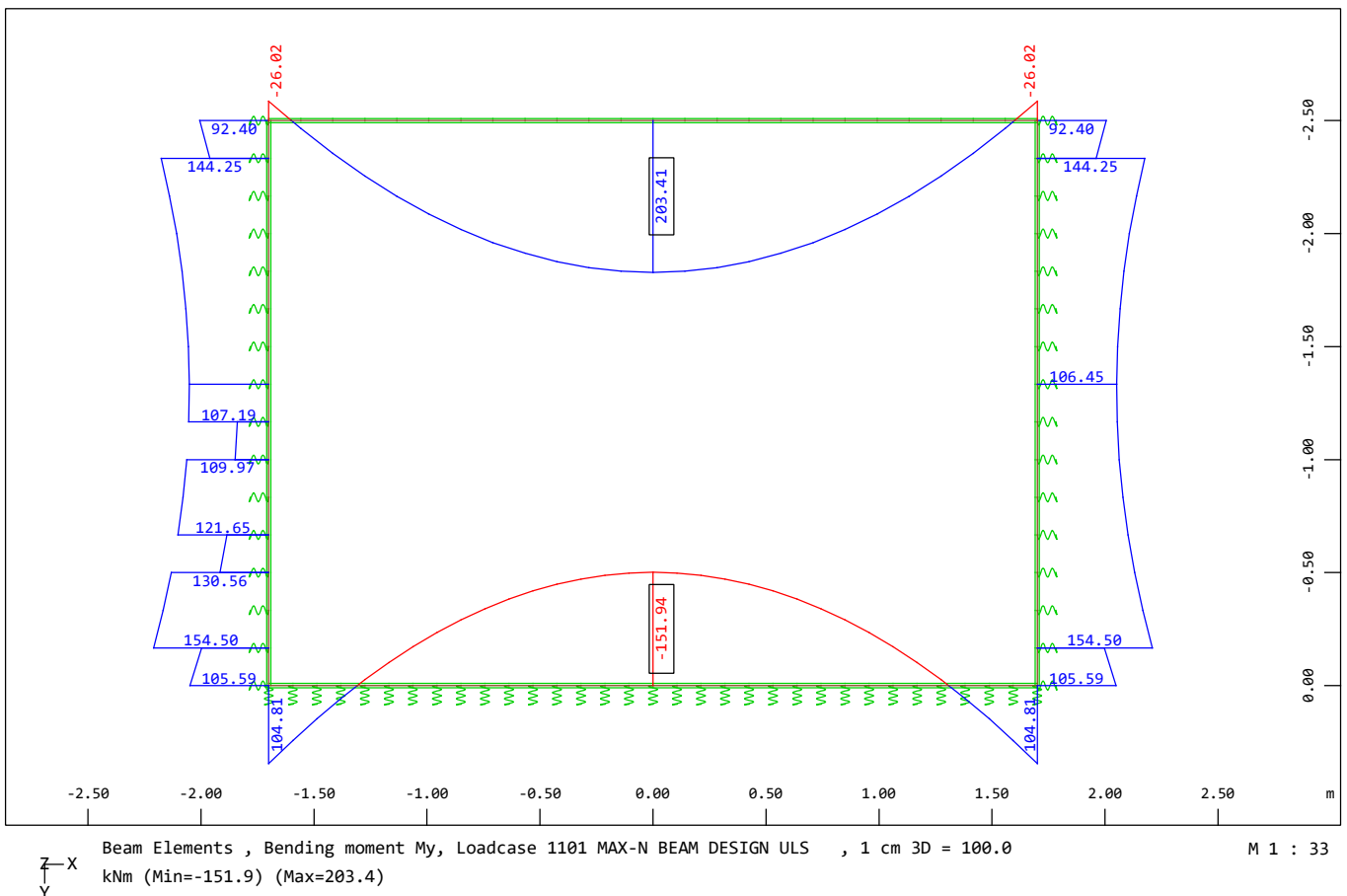
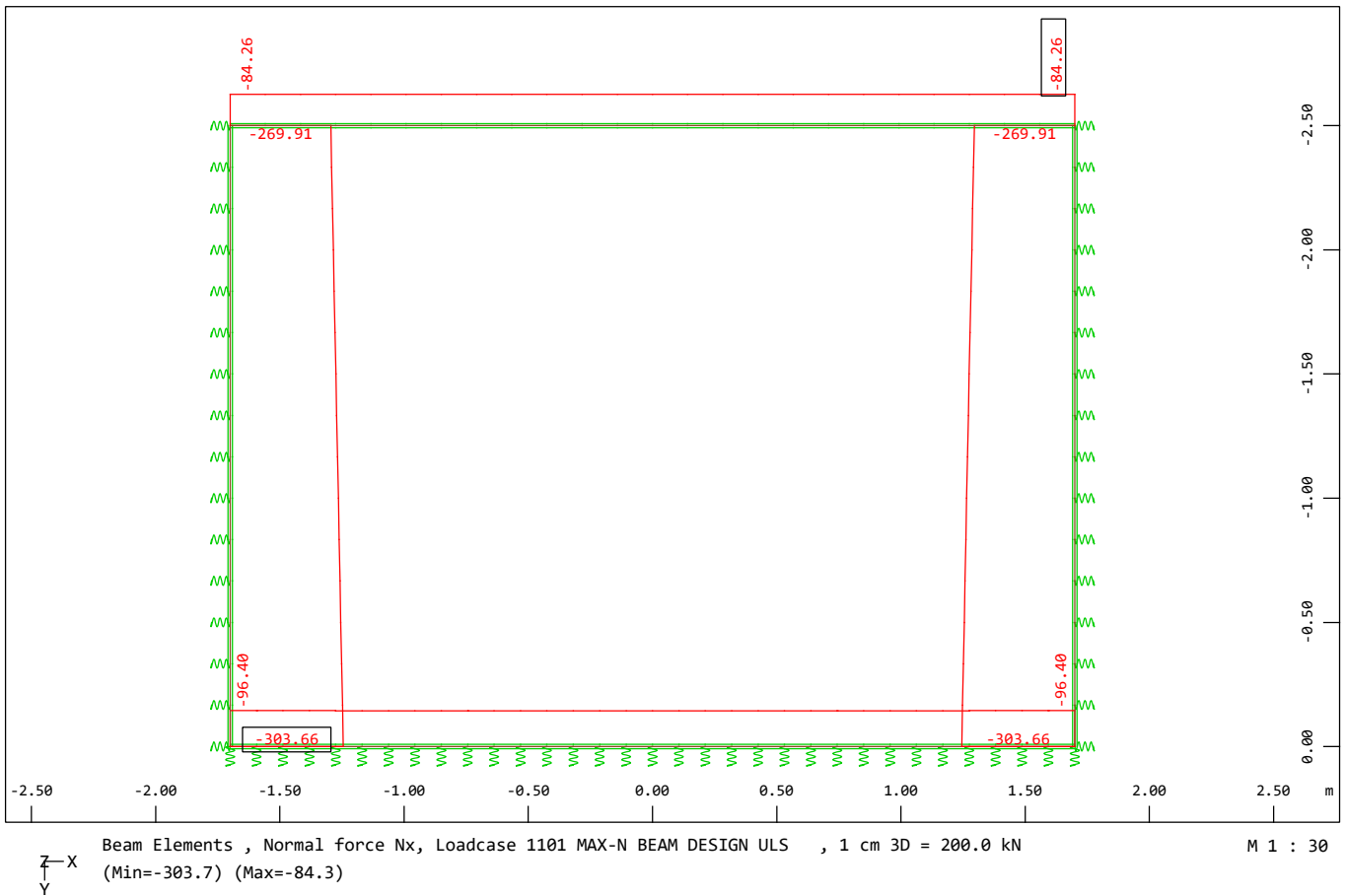
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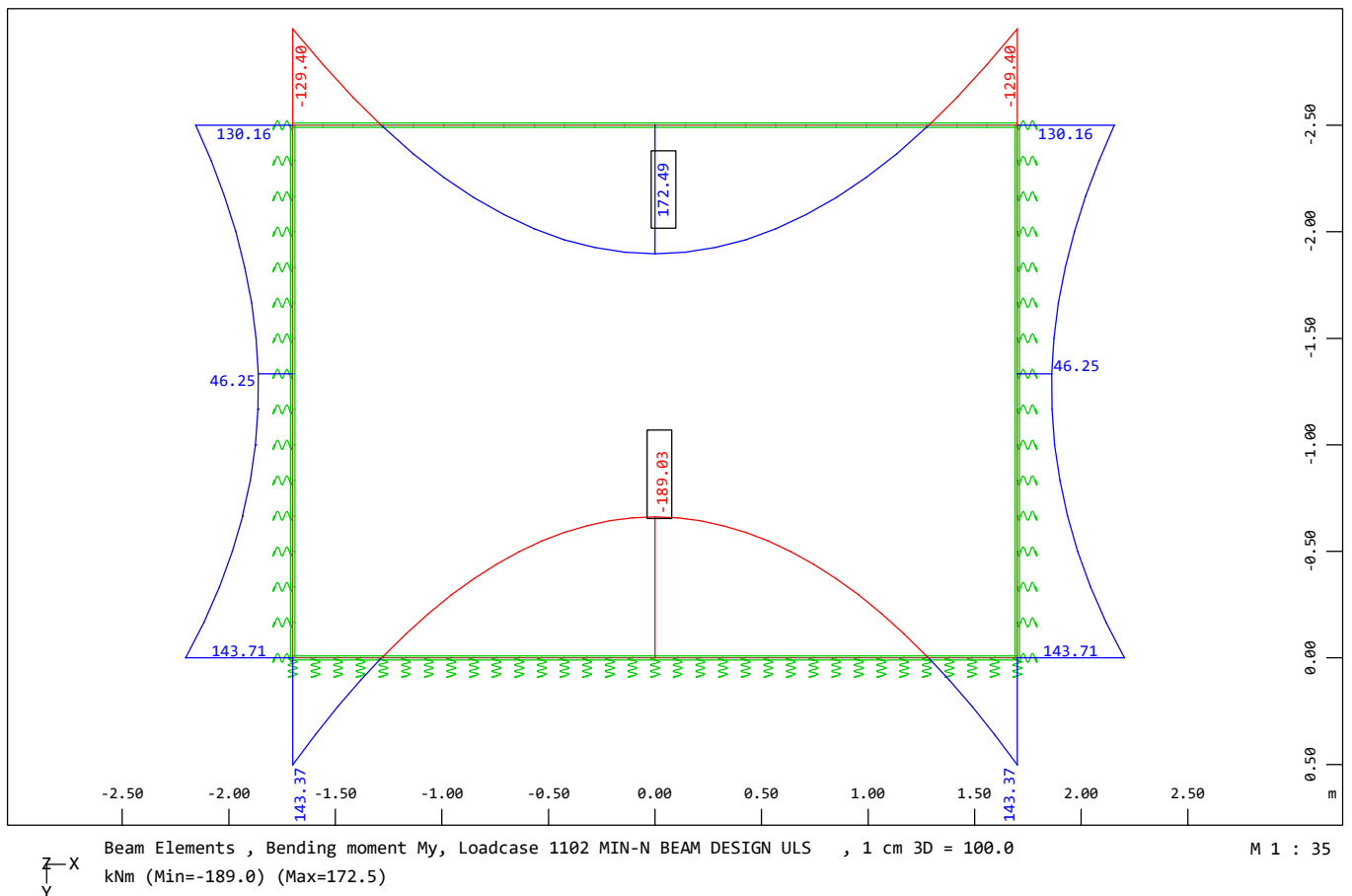
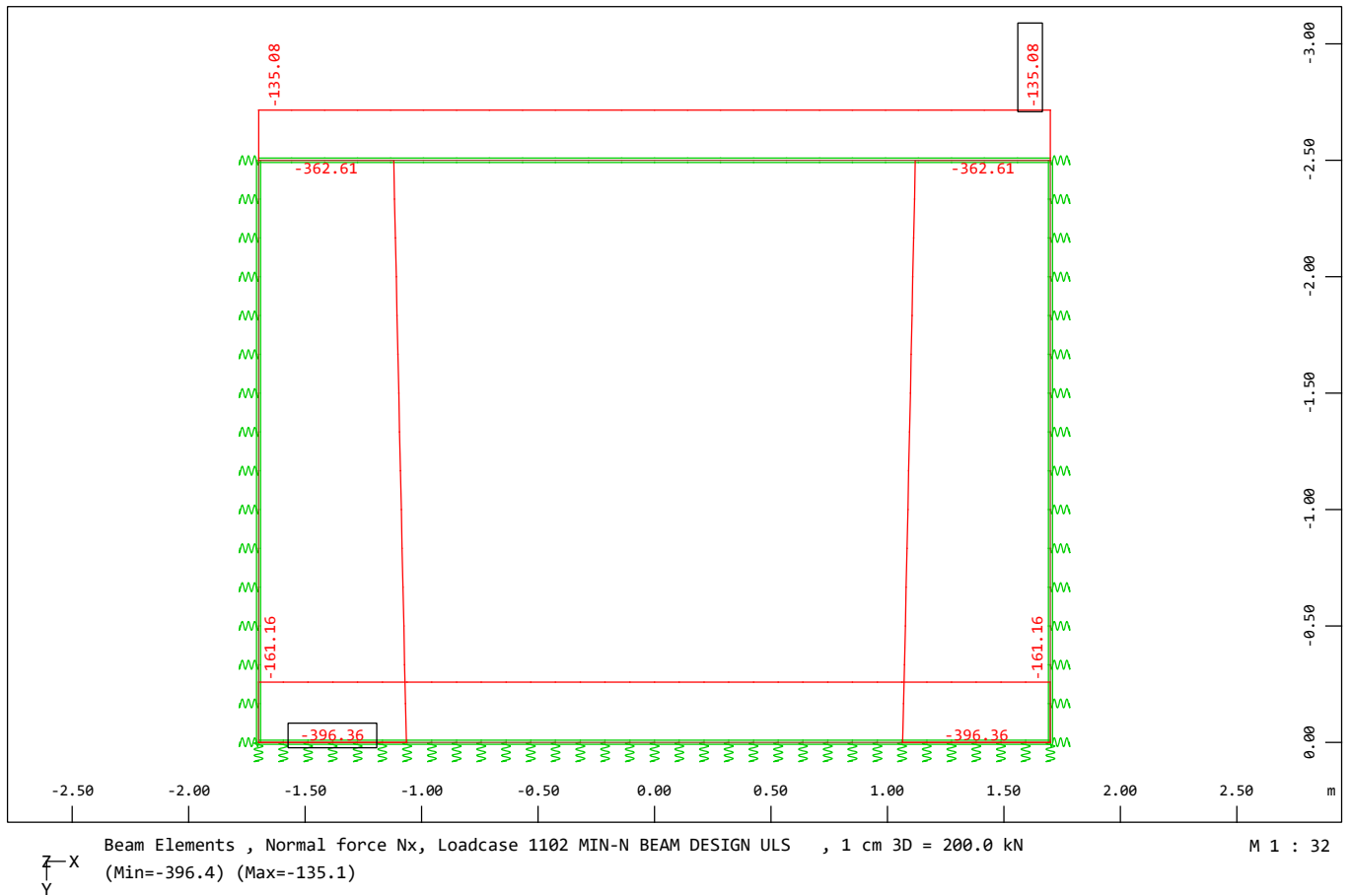
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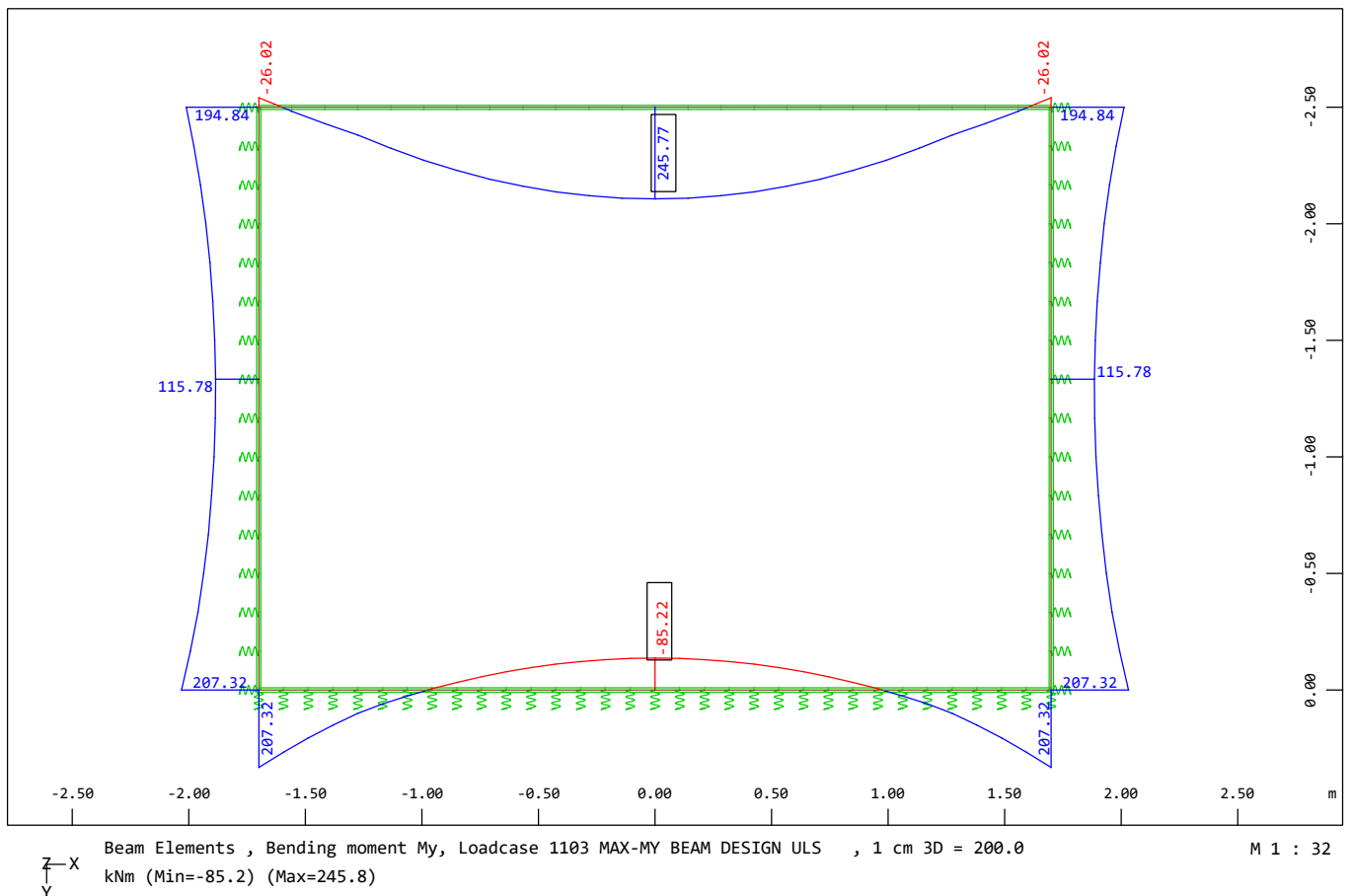
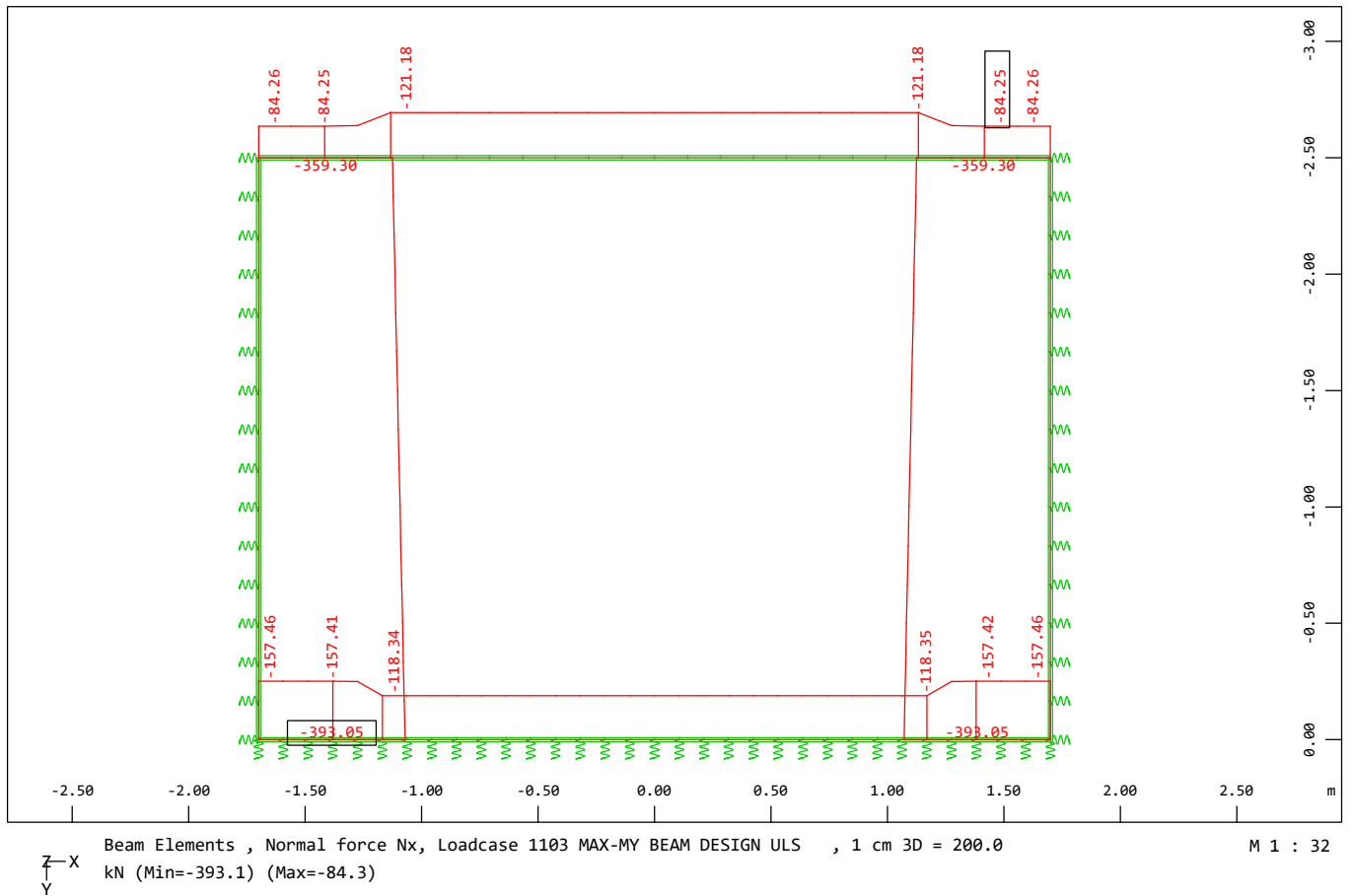
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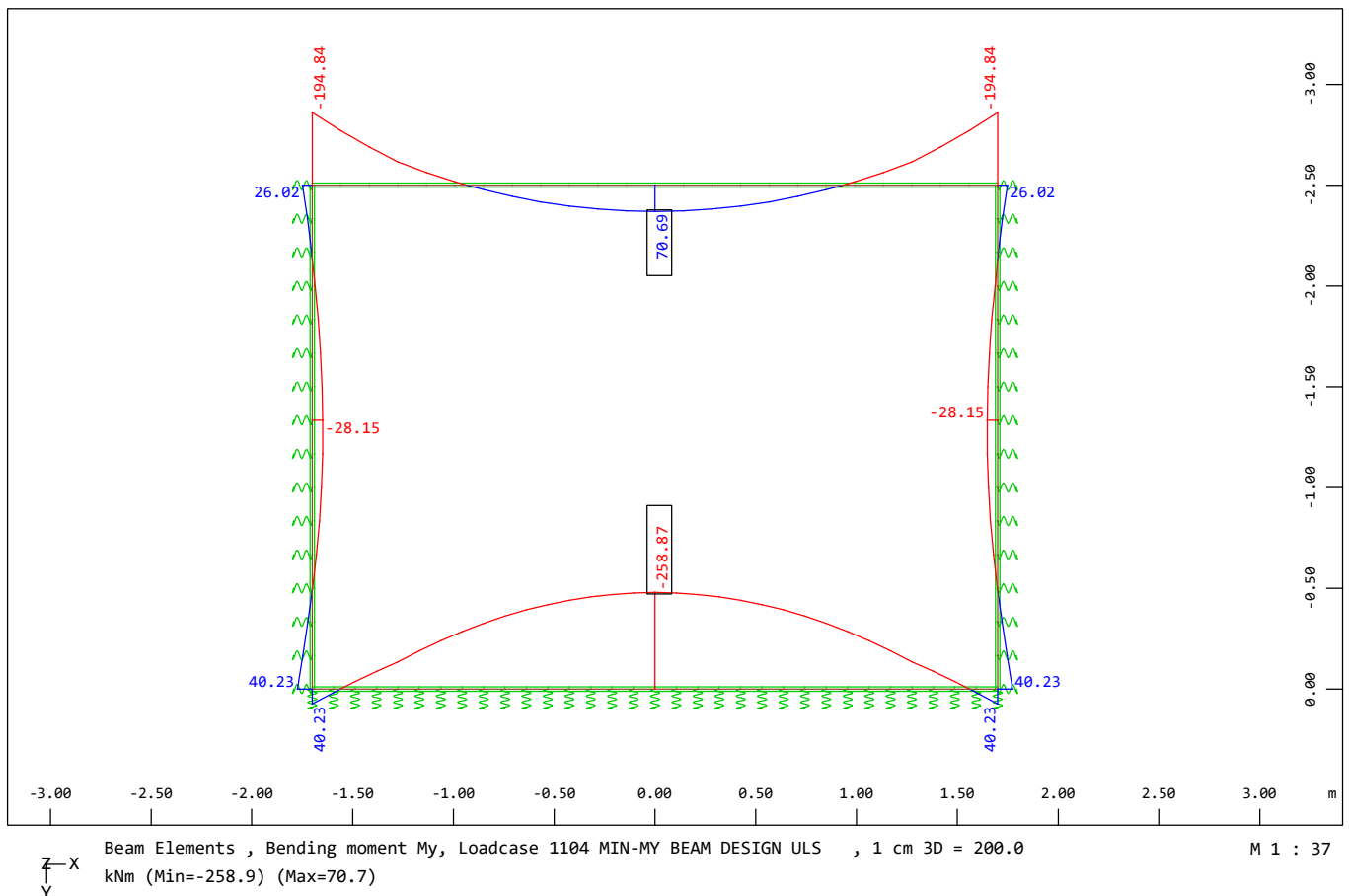
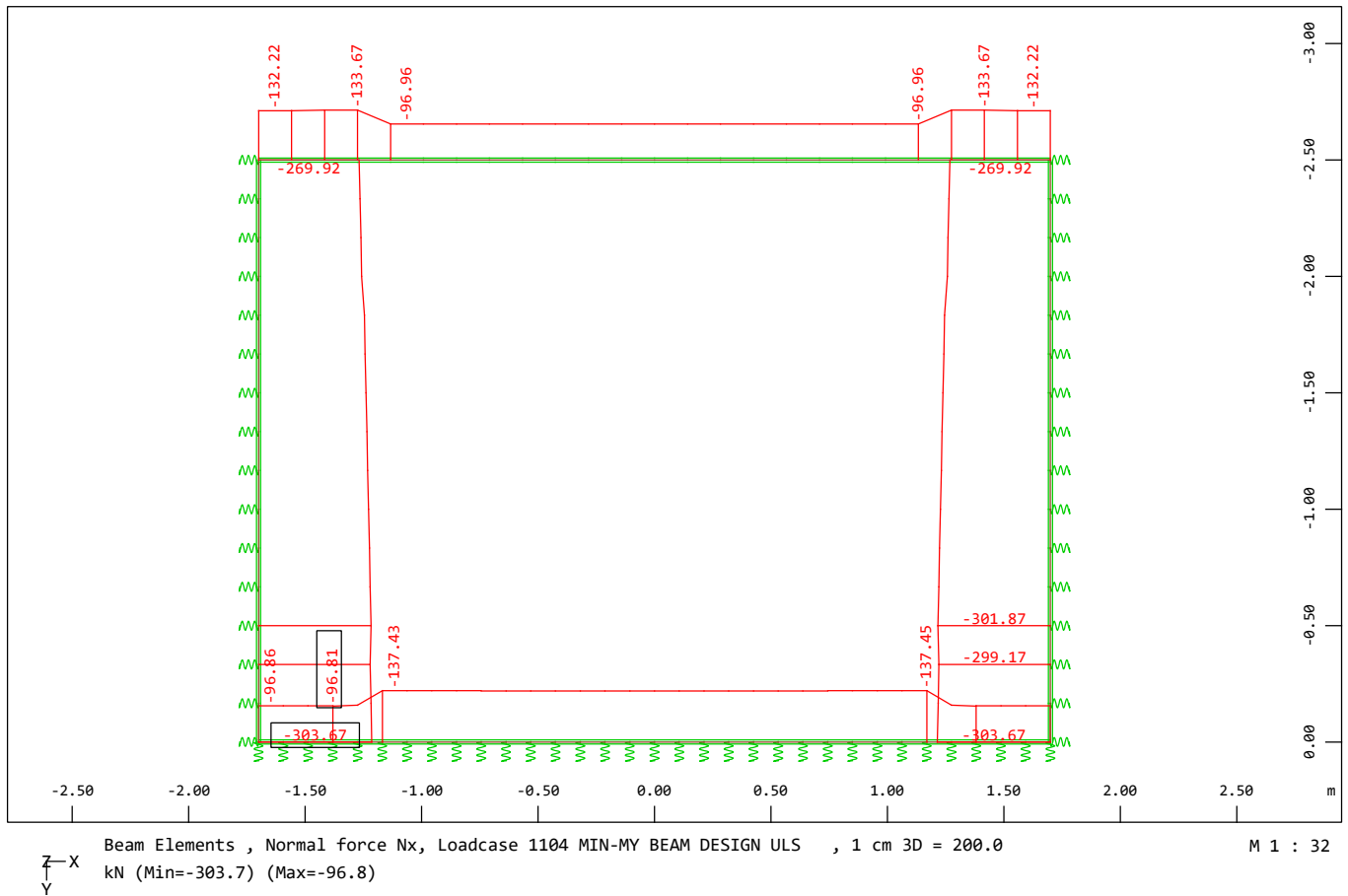
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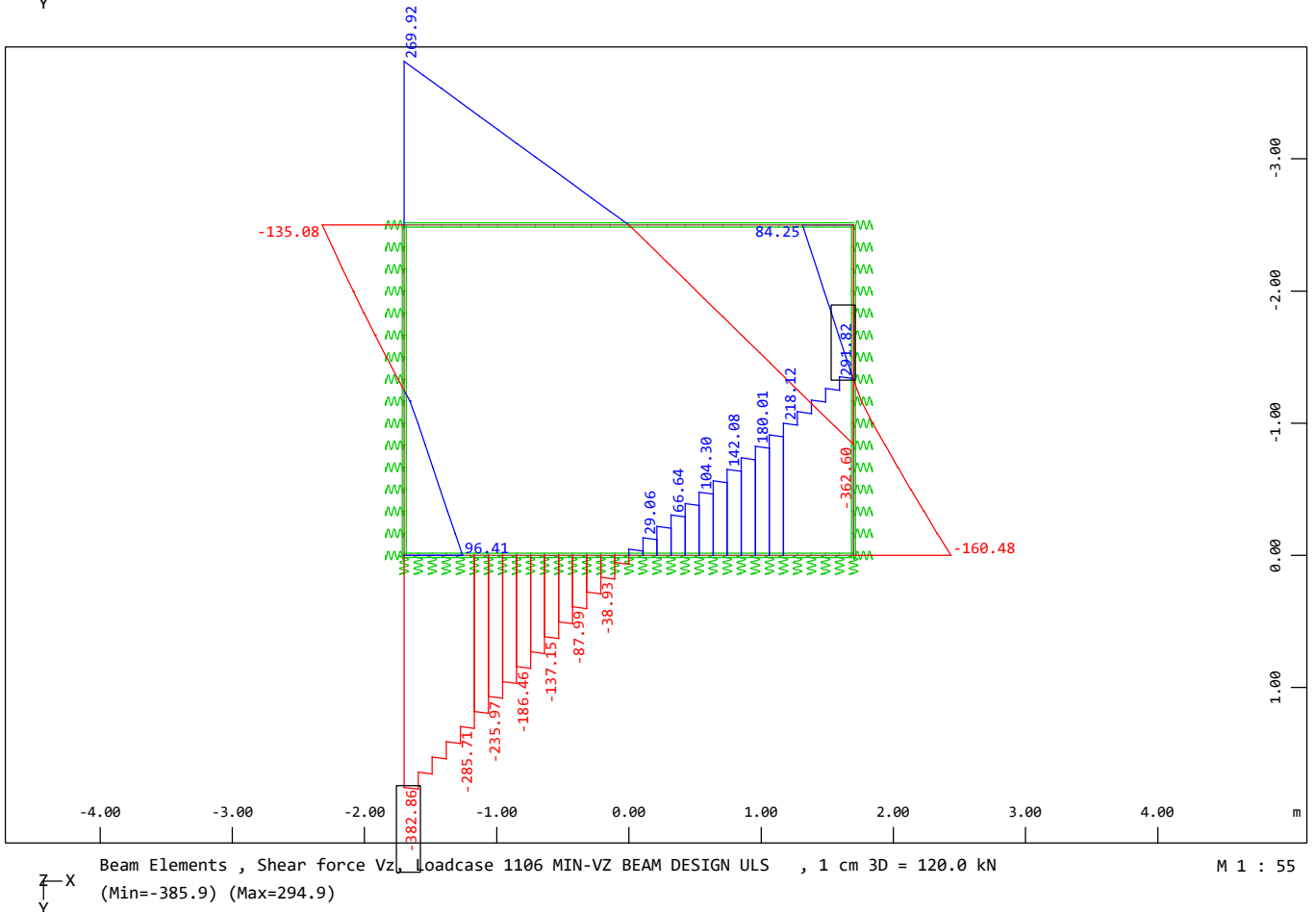
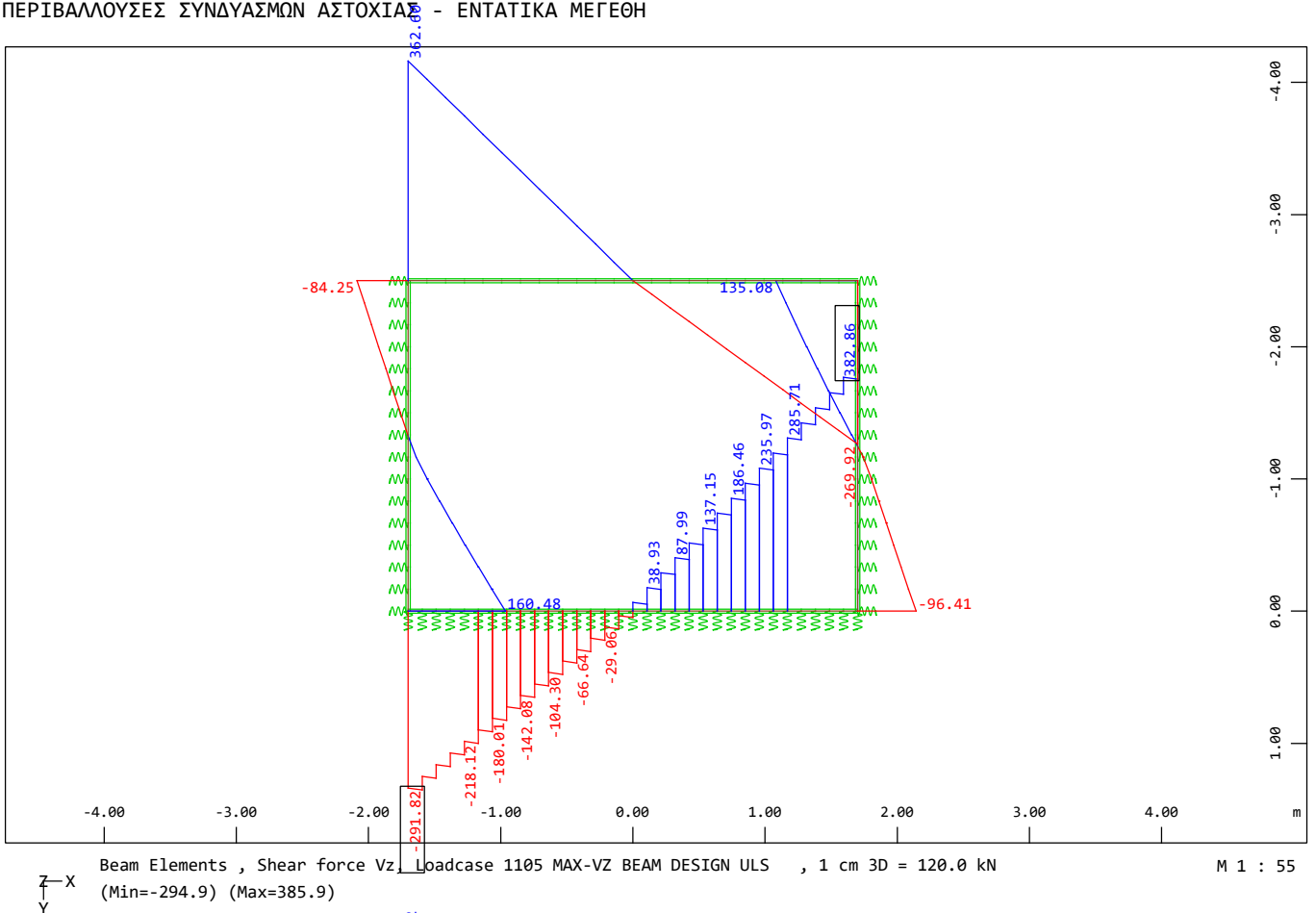
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 - ΑΓΩΓΟΣ Α3 -
 Superposition according to EuroNorm EN 1992-1-1:2004 Concrete Structures

Combination rule Number 3
 Design combination
 Resulting Load Cases type ULS fundamental combination

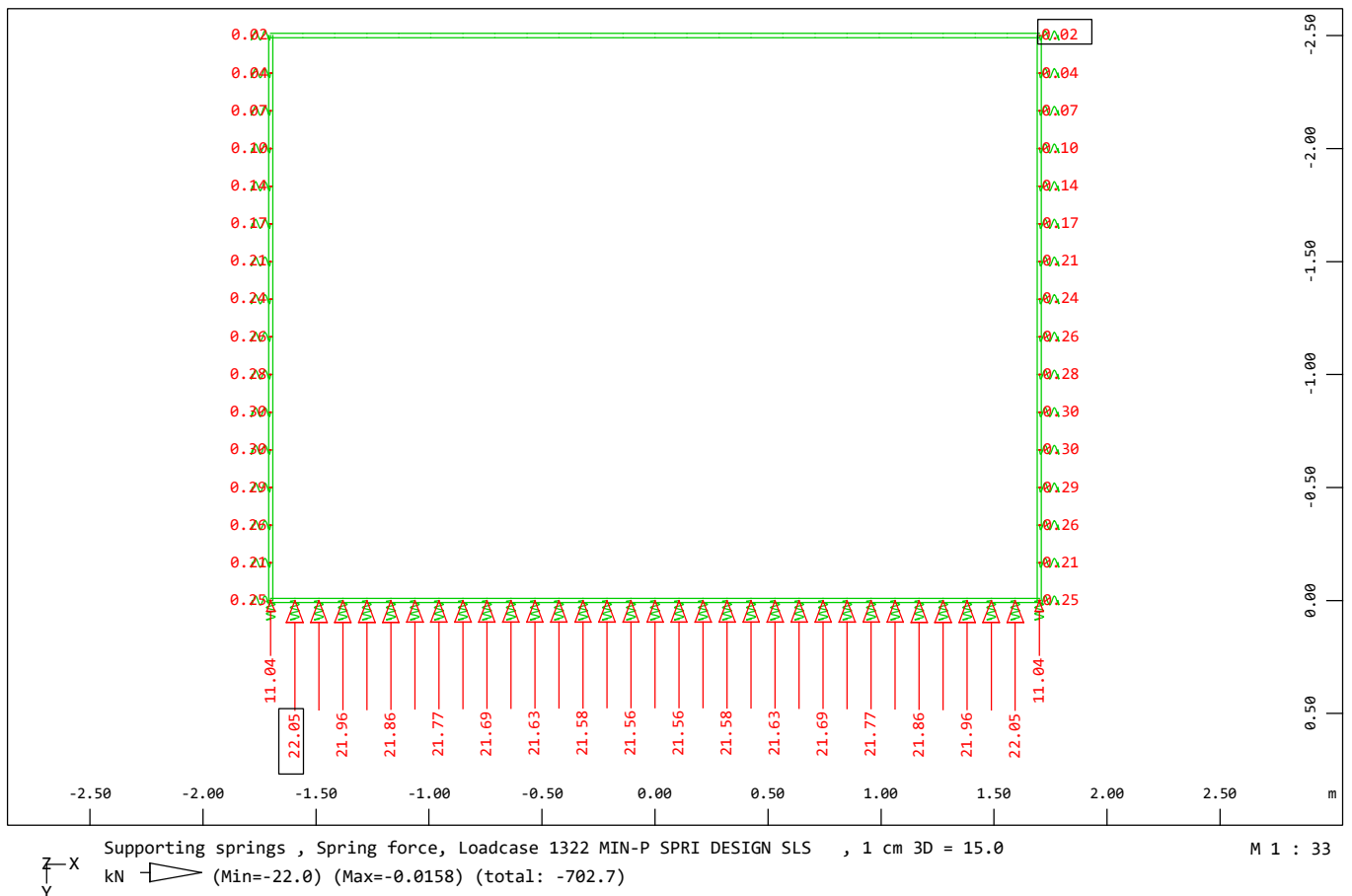
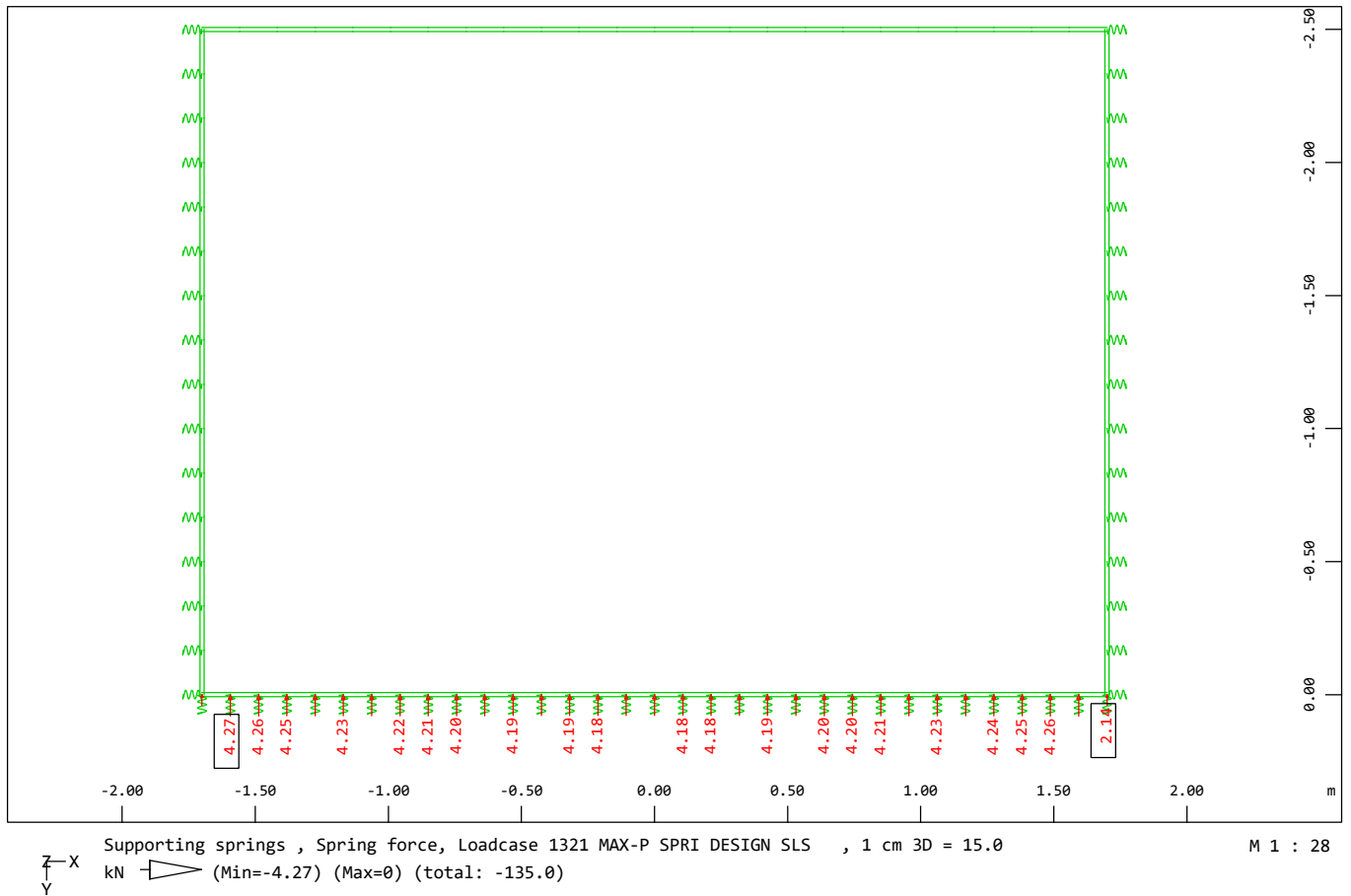
Load Case selection

Number	Fact	Type	Designation
400	1.00	AG1	G+C
421	1.00	AG1	G+C+R2
422	1.00	AG1	G+C+R2+W
423	1.00	AG1	G+C+R2+Q2
424	1.00	AG1	G+C+R2+W+Q2
425	1.00	AG1	G+C+R2+T
426	1.00	AG1	G+C+R2+T
427	1.00	AG1	G+C+R2+T
428	1.00	AG1	G+C+R2+T
Fact factor for load case			
Type type of the load case			
AG exclusive load permanent			

Generated Load Cases

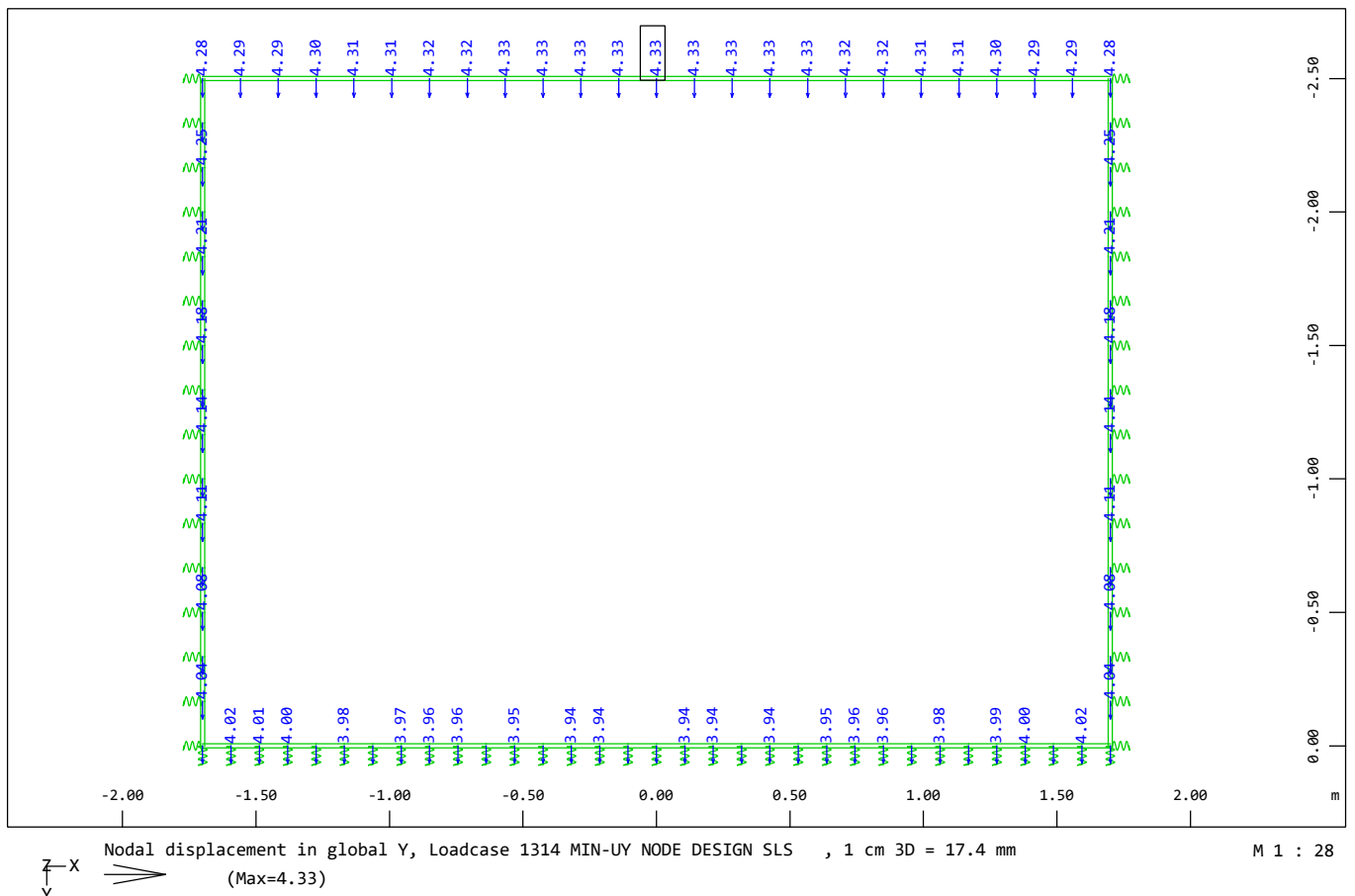
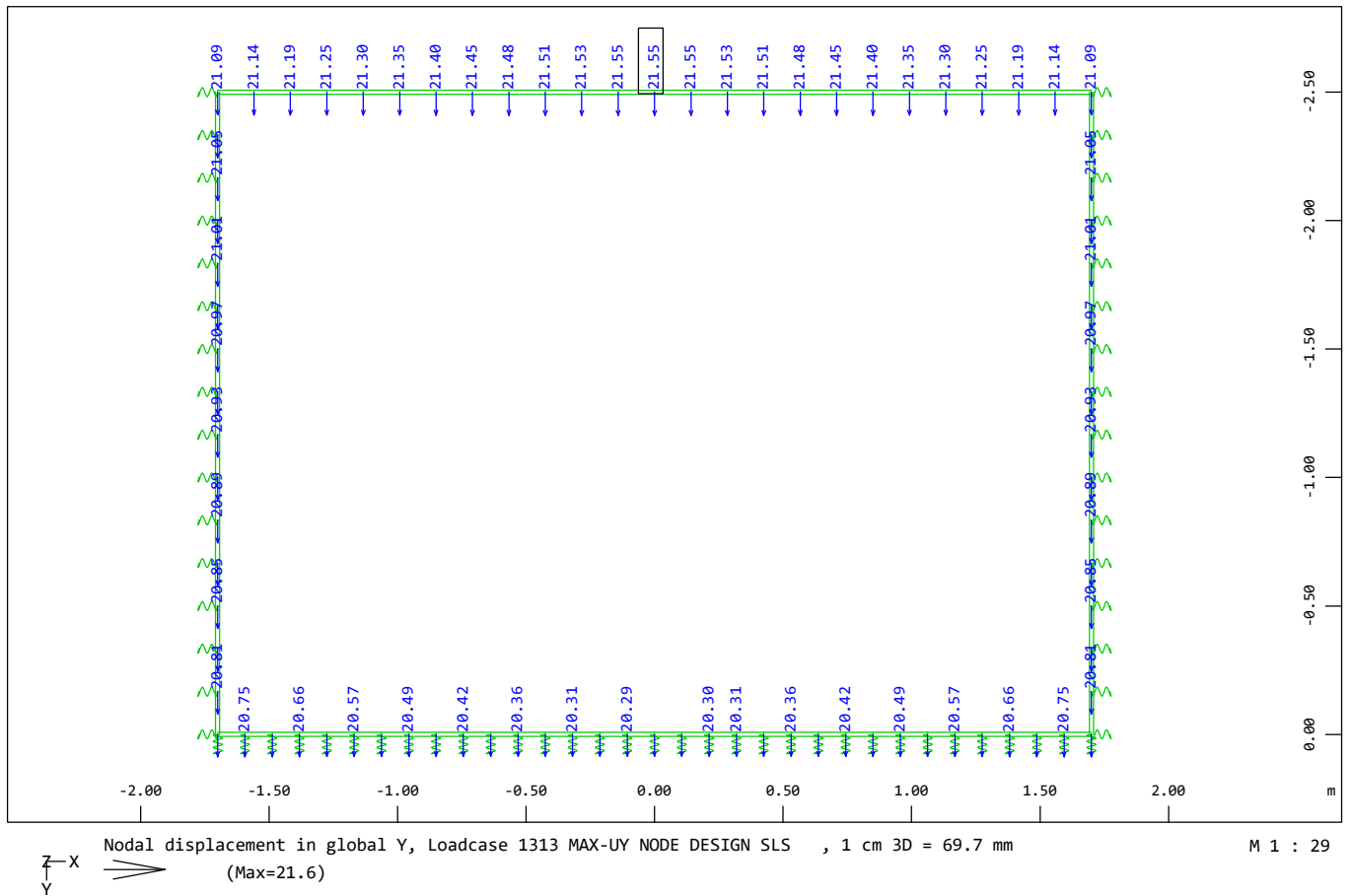
Number	Combination	Designation
1301	3	MAX-N BEAM DESIGN SLS
1302	3	MIN-N BEAM DESIGN SLS
1303	3	MAX-MY BEAM DESIGN SLS
1304	3	MIN-MY BEAM DESIGN SLS
1305	3	MAX-VZ BEAM DESIGN SLS
1306	3	MIN-VZ BEAM DESIGN SLS
1311	3	MAX-UX NODE DESIGN SLS
1312	3	MIN-UX NODE DESIGN SLS
1313	3	MAX-UY NODE DESIGN SLS
1314	3	MIN-UY NODE DESIGN SLS
1321	3	MAX-P SPRI DESIGN SLS
1322	3	MIN-P SPRI DESIGN SLS

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
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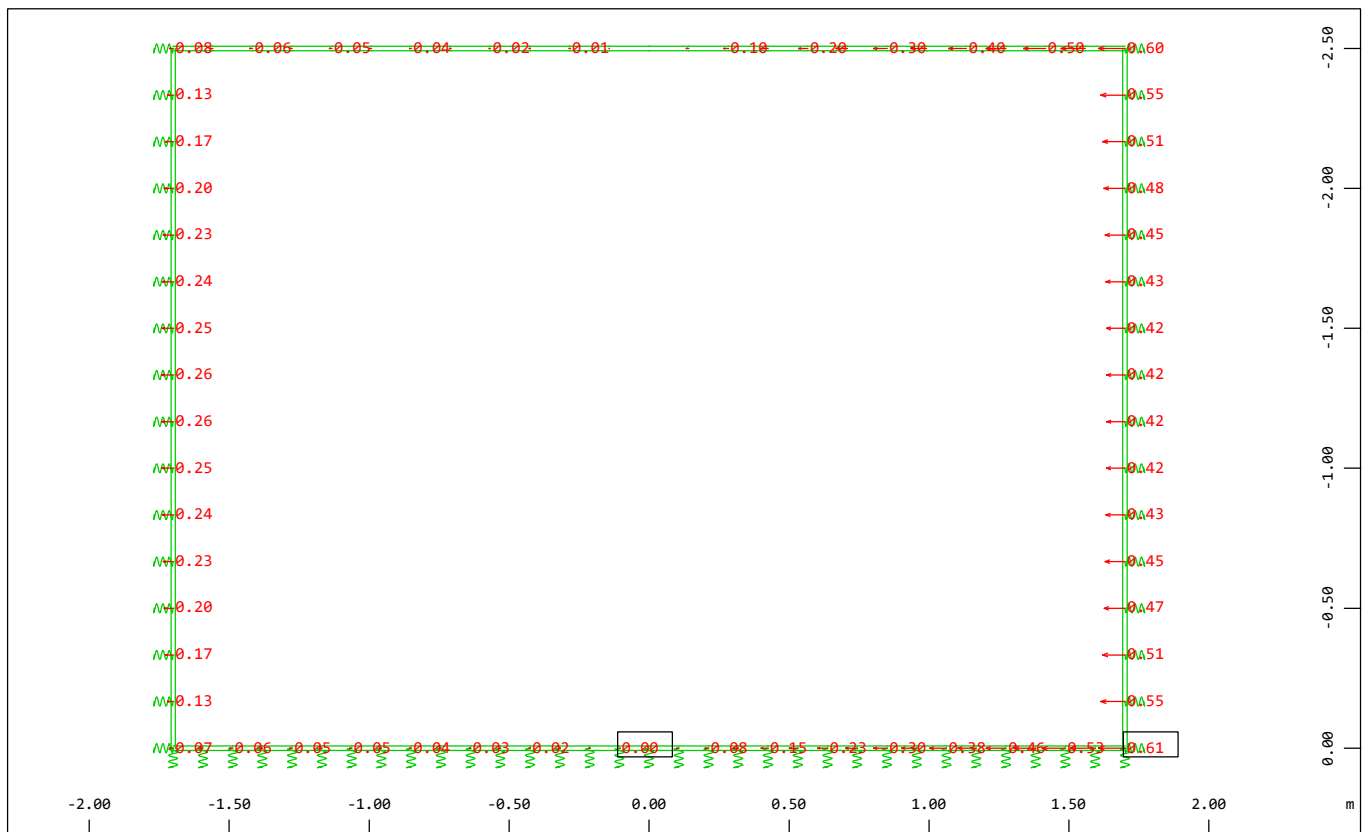
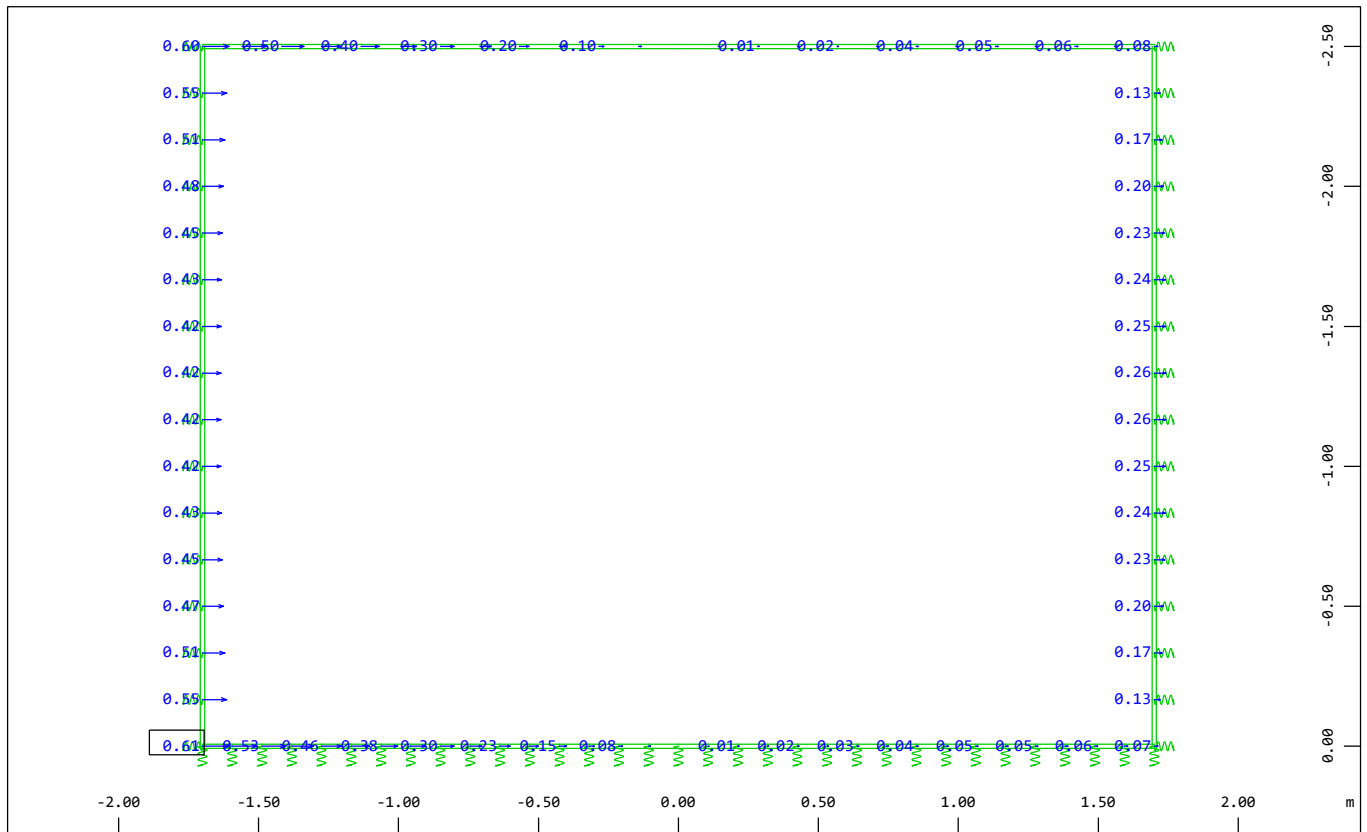


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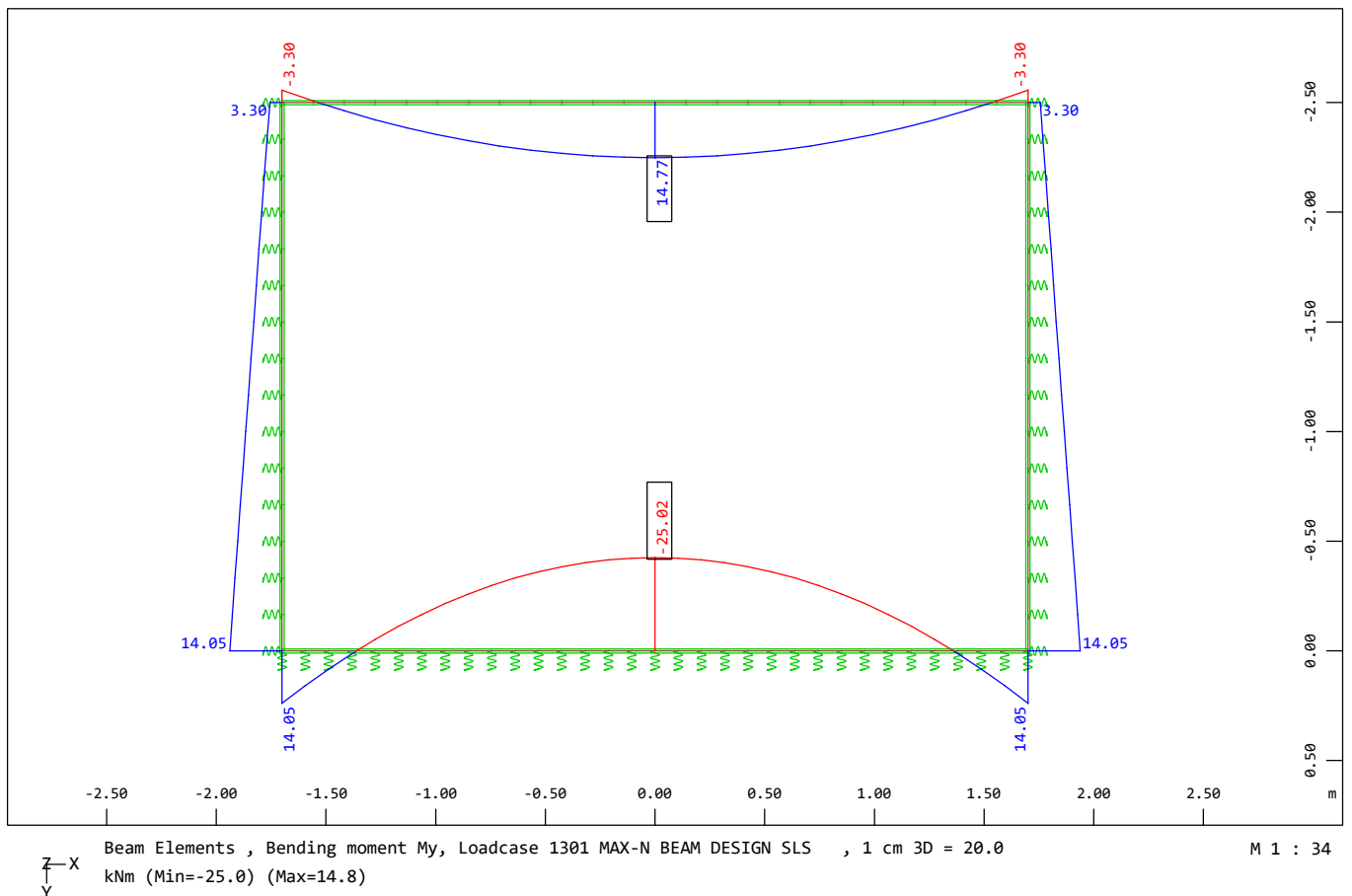
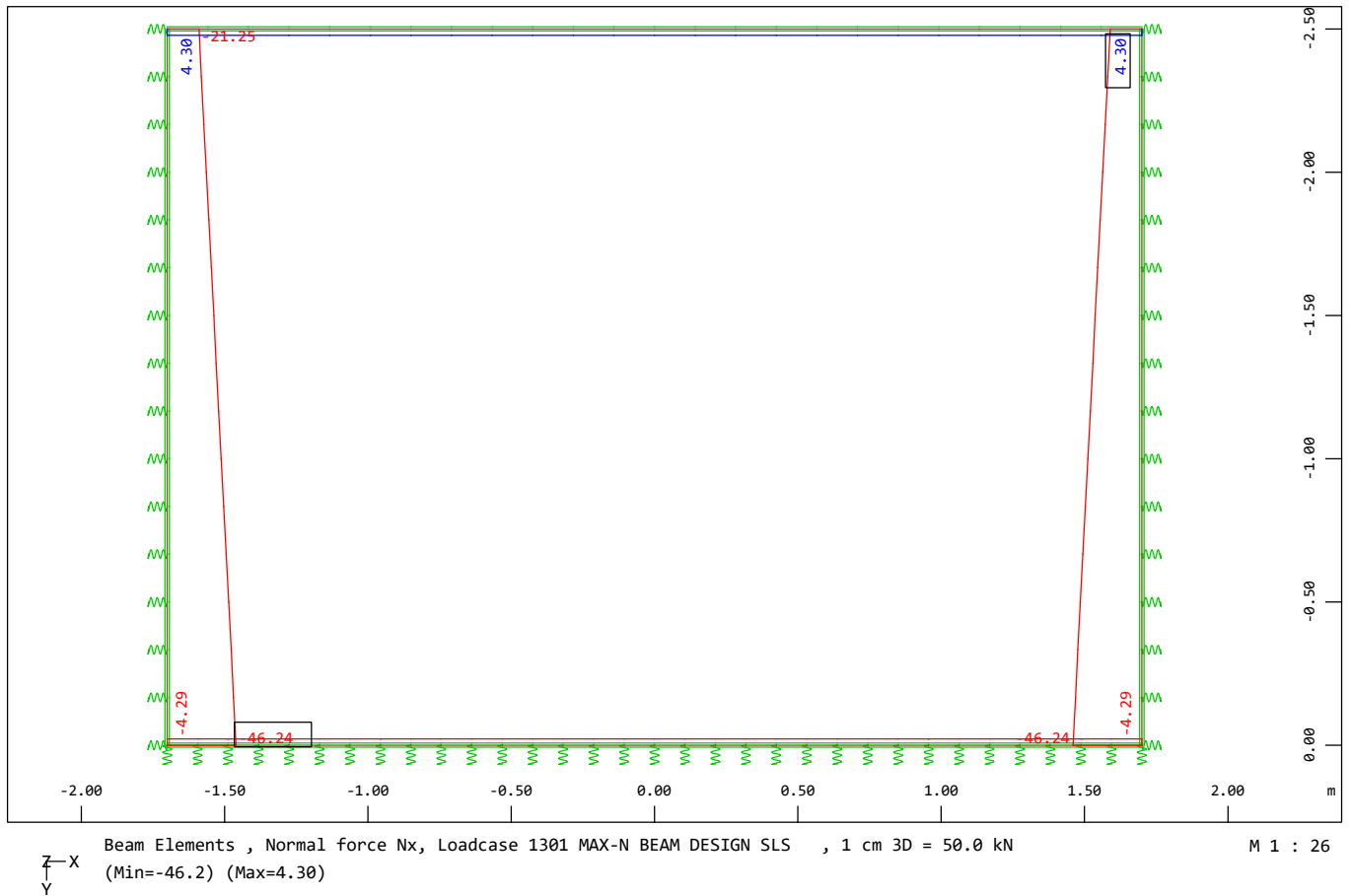
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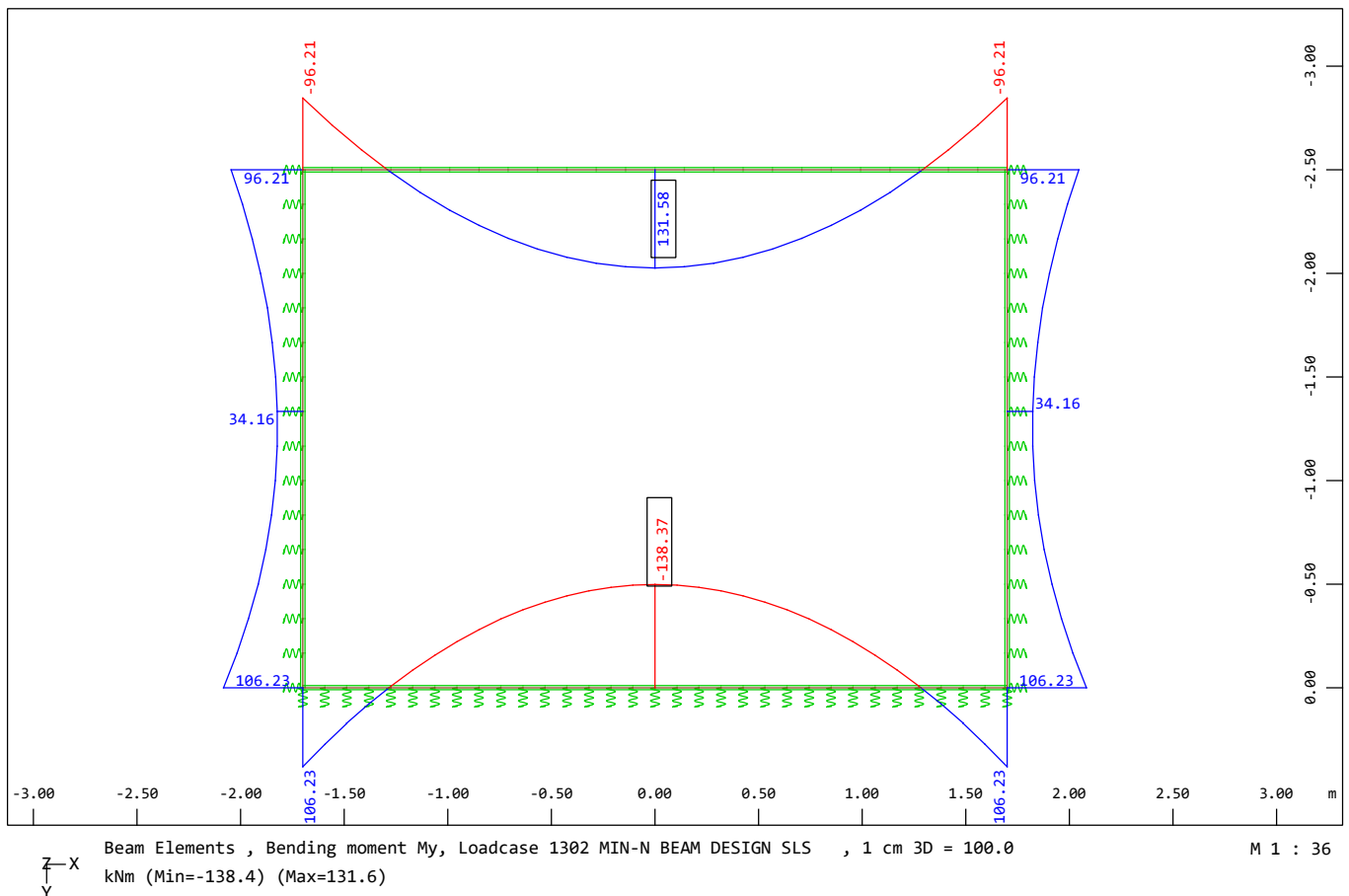
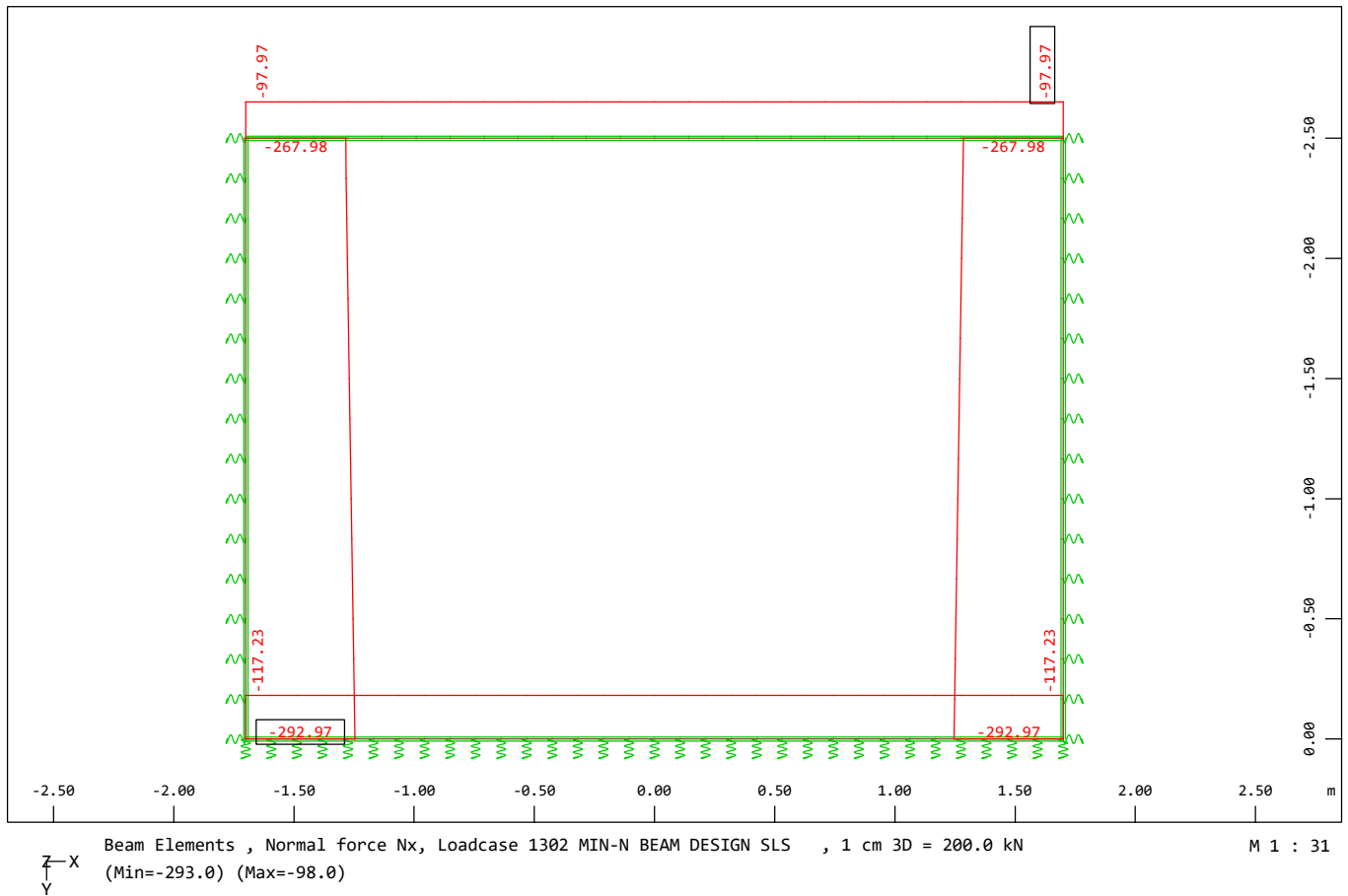
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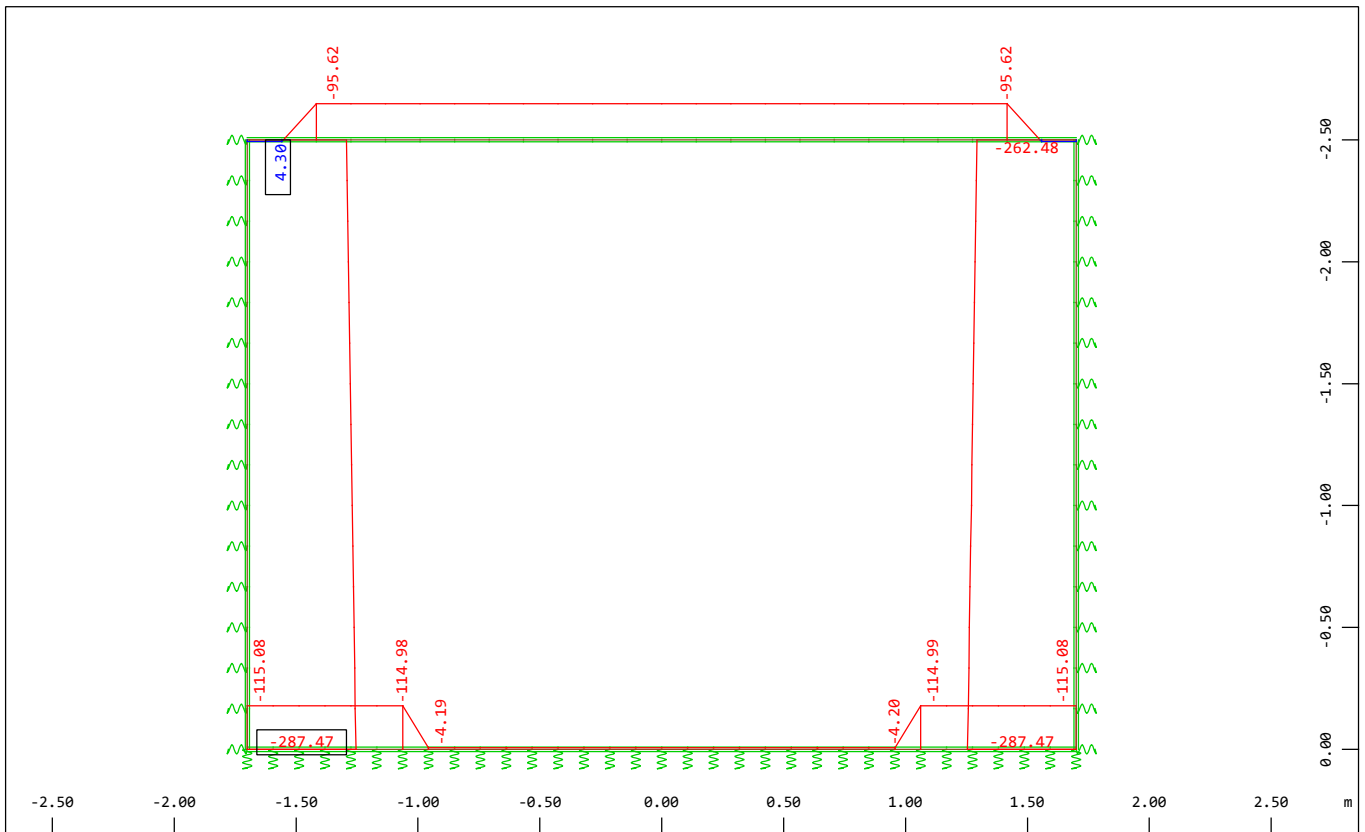
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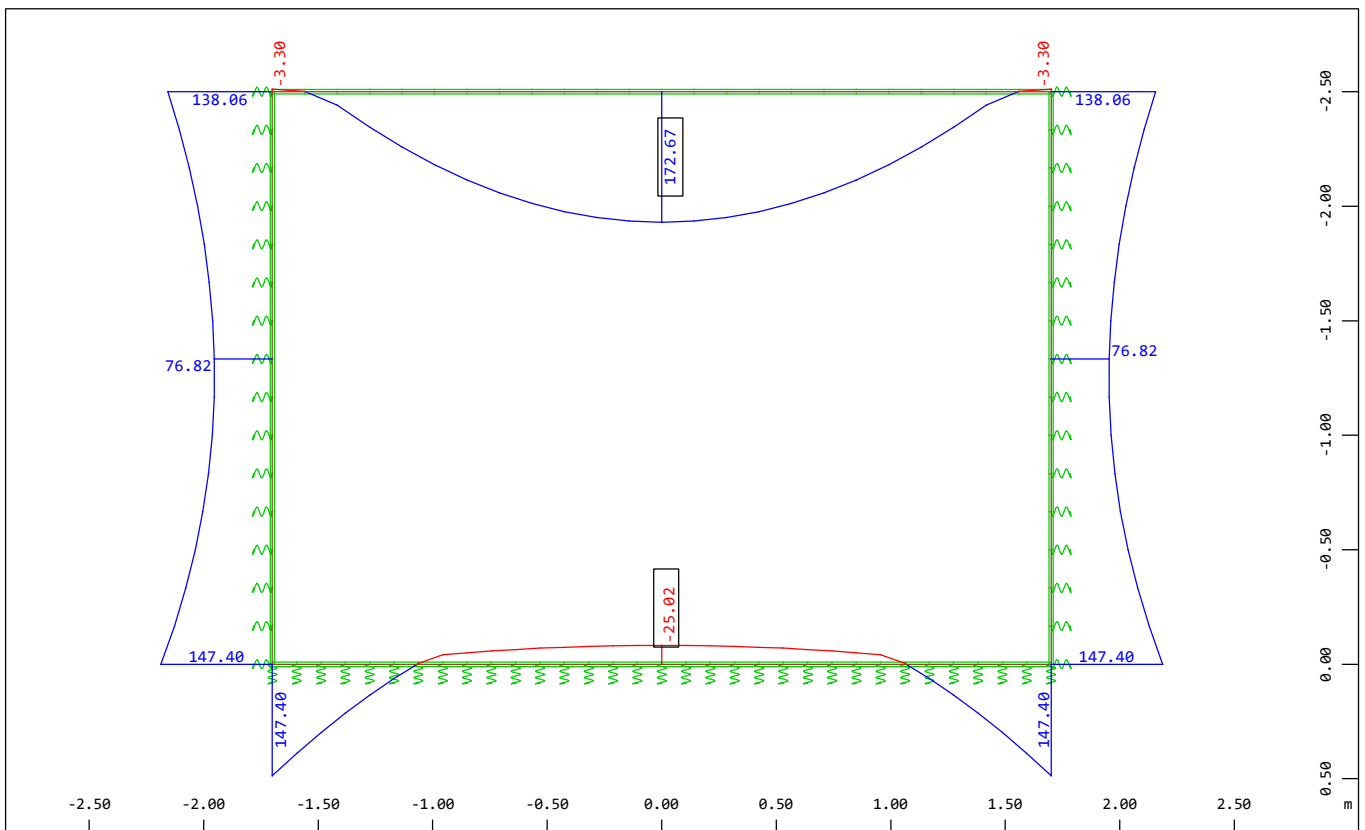
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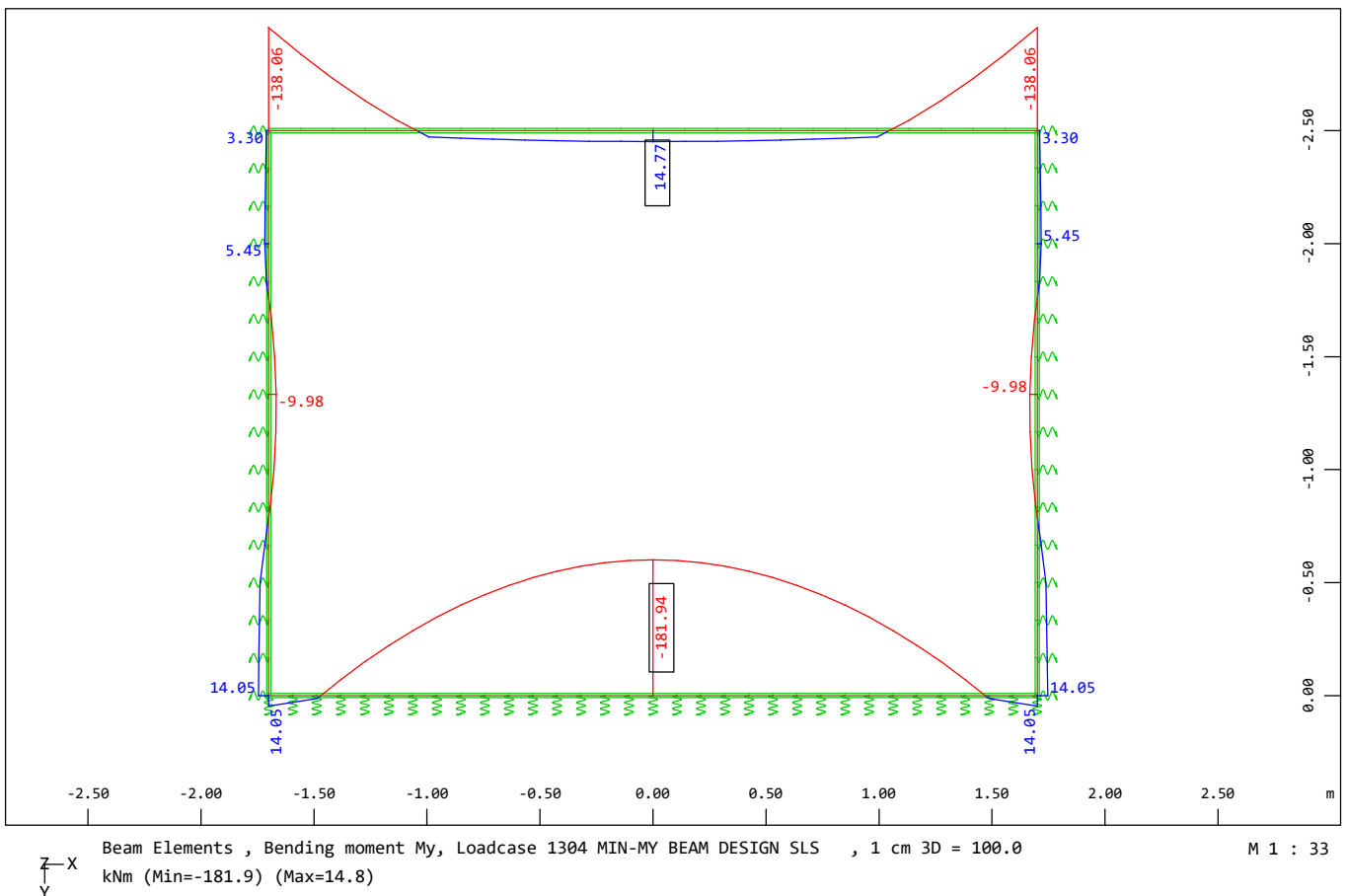
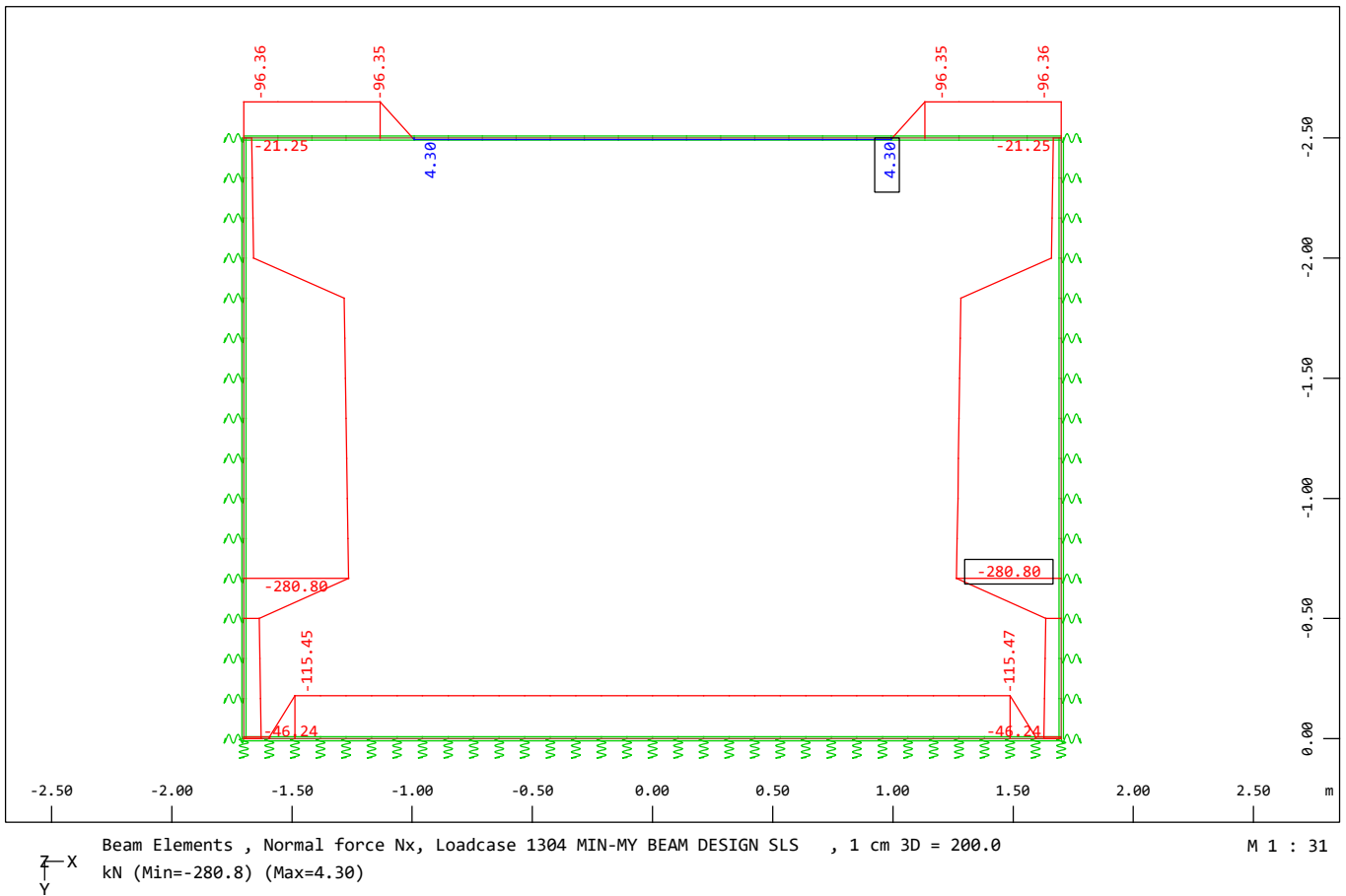


Beam Elements , Normal force Nx, Loadcase 1303 MAX-MY BEAM DESIGN SLS , 1 cm 3D = 200.0 M 1 : 31
kN (Min=-287.5) (Max=4.30)

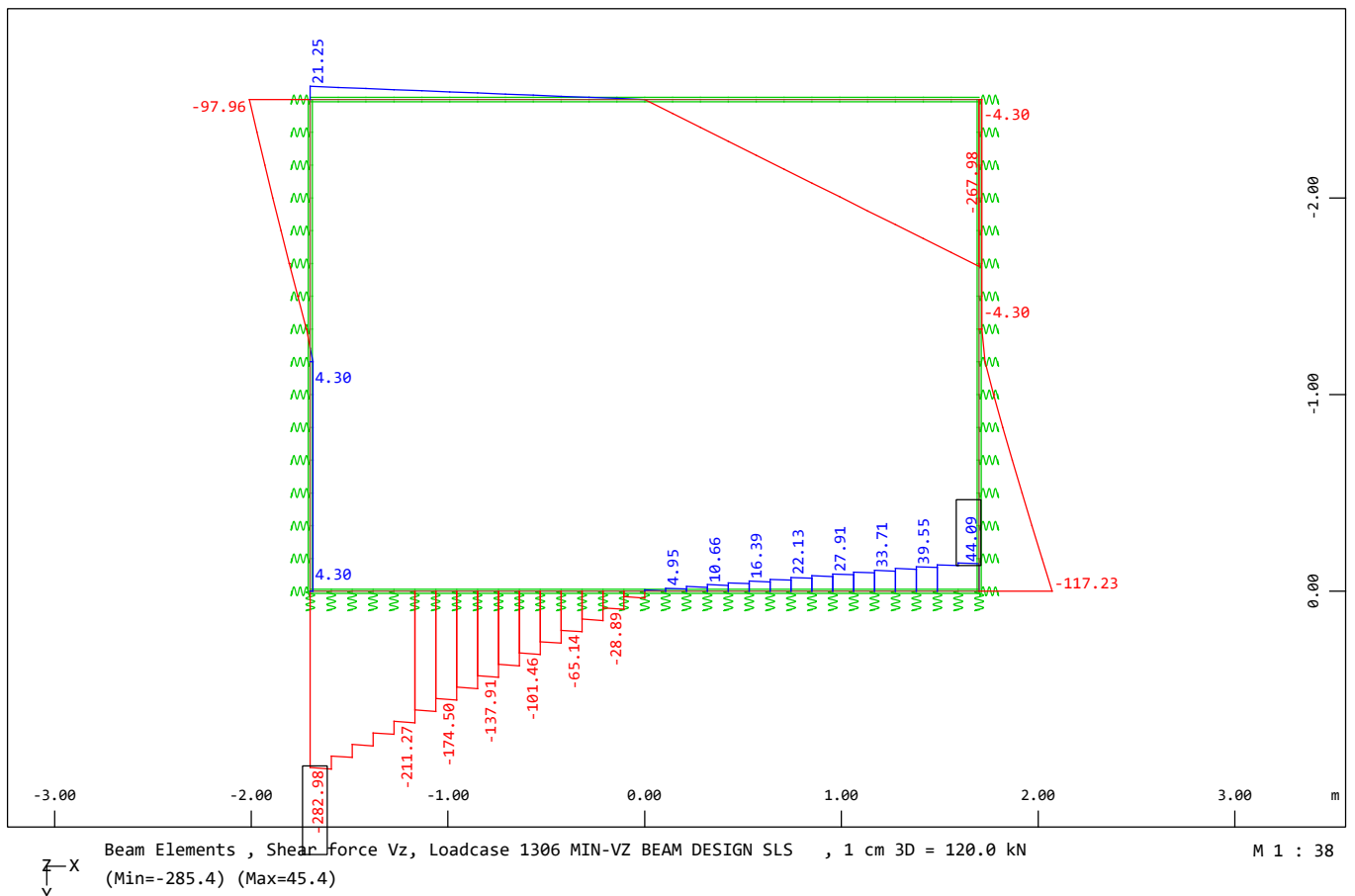
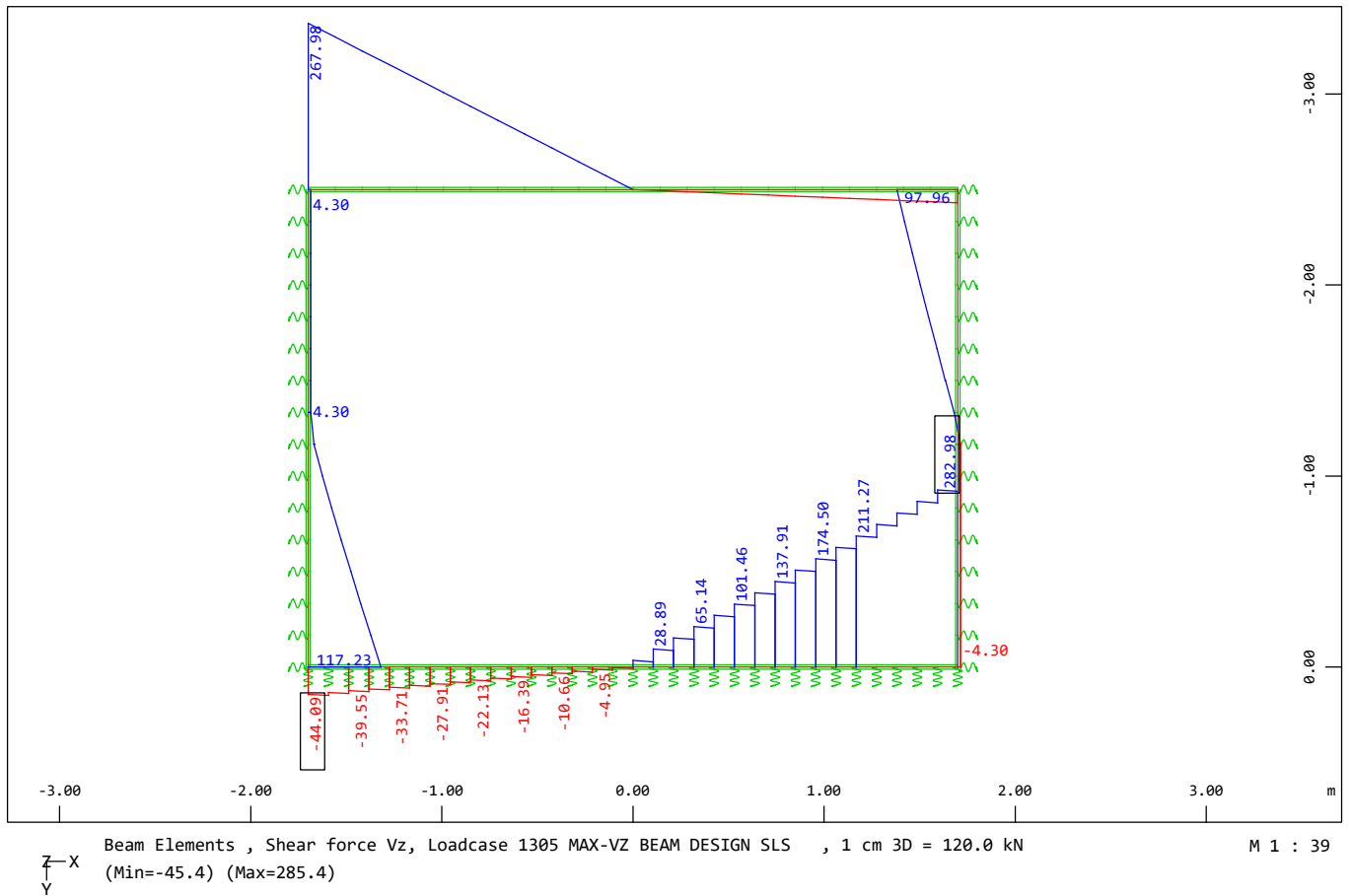


Beam Elements , Bending moment My, Loadcase 1303 MAX-MY BEAM DESIGN SLS , 1 cm 3D = 100.0 M 1 : 33
kNm (Min=-25.0) (Max=172.7)

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Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 1

Design for Ultimate Loads - EuroNorm EN 1992-1-1:2004 Concrete Structures

Safety factors	$\gamma\text{-c,t}$	$\gamma\text{-c,c}$	$\gamma\text{-c,s}$	$\gamma\text{-s,s}$	$\gamma\text{-s,p}$	$\gamma\text{-s}$	Uniaxial bending
Strain limits	$\epsilon\text{-c1}$	$\epsilon\text{-c2}$	$\epsilon\text{-s1}$	$\epsilon\text{-s2}$	$\epsilon\text{-z1}$	$\epsilon\text{-z2}$	CTRL-options
	1.50	1.50	1.50	1.15	1.15	1.00	
	-3.50	-2.00 ¹	$\delta = 1.00^2$	45.00	-3.50	20.00	PIIA = 7
¹ Strain limits will be adopted to active stress strain definitions of material							
² Value is obtained from maximum height of compression zone based on the redistribution grade δ (EN 1992-1-1, 5.5)							
$\gamma\text{-c,t}$	global safety factor for concrete in bending			$\gamma\text{-s,p}$	global safety factor for active reinforcements		
$\gamma\text{-c,c}$	global safety factor for concrete in compression			$\gamma\text{-s}$	global safety factor for structural steel		
$\gamma\text{-c,s}$	global safety factor for concrete in shear			$\epsilon\text{-c1}$	strain limit for compression of concrete		
$\gamma\text{-s,s}$	global safety factor for passive reinforcements			$\epsilon\text{-c2}$	strain limit for centric compression of concrete		
$\epsilon\text{-s1}$	strain limit for a selected x/d ratio triggering symmetric reinforcements						
$\epsilon\text{-s2}$	strain limit for tension respective hardening of reinforcements						
$\epsilon\text{-z1}$	incremental strain limit for tendons in compression						
$\epsilon\text{-z2}$	incremental strain limit for tendons in tension						

Parameters for reinforcements

Minimum reinforcement for beams	Minimum reinforcement for columns	Compressive Member Limits e/h	Compressive Member Limits N/Npl	Minimum reinforcement of the required section	Maximum reinforcements
0.13 [o/o]	0.20 [o/o]	3.50 ¹	0.0010 ¹	0.00 [o/o] 0.10*Ned/fyd	8.00 [o/o]
¹ A beam is taken as compressive member if the eccentricity e/h is less and the compressive force is larger than these limits					

Tensile forces in the longitudinal reinforcements due to shear are NOT accounted for.
Material of sections uses Ultimate Limit strain-stress law with individual safety factors
Material of reinforcements uses Ultimate Limit strain-stress law with individual safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.500	-16.67	-2.00	0.00	0.00	$f_{c,t} = 0.00$	
2	0	1.150	-500.00	-75.00	500.00	75.00		
11	0	1.500	-13.33	-2.00	0.00	0.00	$f_{c,t} = 0.00$	

Shear Design

Design for shear Eurocode EN 1992 (2004)

Mat	f-cd [MPa]	τ -rd [MPa]	σ -cv [MPa]	σ -ct [MPa]	σ -cv+t [MPa]	f-yd [MPa]
1	16.67	0.12	9.00	9.00	9.00	
2						434.78
11	13.33	0.12	7.36	7.36	7.36	
f-cd design strength of concrete						
τ -rd design value of the shear capacity of the concrete						
σ -cv maximum allowable compressive stress for transverse shear						
σ -ct maximum allowable compressive stress for torsional shear						
σ -cv+t maximum allowable compressive stress						
f-yd design strength of transverse reinforcements						

Minimum shear factor or tan of inclination of compressive struts 0.40 / 1.00

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Tolerance for exceeding maximum shear or principal compression stress 0.0200

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
102	0.000	1	0.19	9.46	0.450		6.67	2.80			
102	0.106	1	0.17	8.39	0.537		5.59	2.80			
103	0.000	1	0.17	8.39	0.537		5.59	2.80			
103	0.106	1	0.22	11.18	0.537		5.59	5.59			
104	0.000	1	0.22	11.18	0.537		5.59	5.59			
104	0.106	1	0.22	11.18	0.537		5.59	5.59			
105	0.000	1	0.22	11.18	0.537		5.59	5.59			
105	0.106	1	0.22	11.18	0.537		5.59	5.59			
106	0.000	1	0.22	11.18	0.537		5.59	5.59			
106	0.106	1	0.17	8.39	0.537		2.80	5.59			
107	0.000	1	0.17	8.39	0.537		2.80	5.59			
107	0.106	1	0.18	8.97	0.537		2.80	6.18			
108	0.000	1	0.18	8.97	0.450		2.80	6.18			
108	0.106	1	0.20	10.21	0.450		2.80	7.41			
109	0.000	1	0.20	10.21	0.450		2.80	7.41			
109	0.106	1	0.17	8.52	0.450			8.52			
110	0.000	1	0.17	8.52				8.52			
110	0.106	1	0.19	9.49				9.49			
111	0.000	1	0.19	9.49				9.49			
111	0.106	1	0.21	10.32				10.31			
112	0.000	1	0.21	10.32				10.31			
112	0.106	1	0.22	11.00				10.99			
113	0.000	1	0.22	11.00				10.99			
113	0.106	1	0.23	11.53				11.52			
114	0.000	1	0.23	11.53				11.52			
114	0.106	1	0.24	11.91				11.91			
115	0.000	1	0.24	11.91				11.91			
115	0.106	1	0.24	12.14				12.13			
116	0.000	1	0.24	12.14				12.13			
116	0.106	1	0.24	12.21				12.21			
117	0.000	1	0.24	12.21				12.21			
117	0.106	1	0.24	12.14				12.13			
118	0.000	1	0.24	12.14				12.13			
118	0.106	1	0.24	11.91				11.91			
119	0.000	1	0.24	11.91				11.91			
119	0.106	1	0.23	11.53				11.52			
120	0.000	1	0.23	11.53				11.52			
120	0.106	1	0.22	11.00				10.99			
121	0.000	1	0.22	11.00				10.99			
121	0.106	1	0.21	10.32				10.31			
122	0.000	1	0.21	10.32				10.31			
122	0.106	1	0.19	9.49				9.49			
123	0.000	1	0.19	9.49				9.49			
123	0.106	1	0.17	8.52				8.52			
124	0.000	1	0.17	8.52	0.450			8.52			
124	0.106	1	0.20	10.21	0.450		2.80	7.41			
125	0.000	1	0.20	10.21	0.450		2.80	7.41			
125	0.106	1	0.18	8.97	0.450		2.80	6.18			
126	0.000	1	0.18	8.97	0.537		2.80	6.18			
126	0.106	1	0.17	8.39	0.537		2.80	5.59			
127	0.000	1	0.17	8.39	0.537		2.80	5.59			
127	0.106	1	0.22	11.18	0.537		5.59	5.59			
128	0.000	1	0.22	11.18	0.537		5.59	5.59			
128	0.106	1	0.22	11.18	0.537		5.59	5.59			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
129	0.000	1	0.22	11.18	0.537		5.59	5.59			
129	0.106	1	0.22	11.18	0.537		5.59	5.59			
130	0.000	1	0.22	11.18	0.537		5.59	5.59			
130	0.106	1	0.17	8.39	0.537		5.59	2.80			
131	0.000	1	0.17	8.39	0.537		5.59	2.80			
131	0.106	1	0.19	9.46	0.450		6.67	2.80			
202	0.000	2	0.25	10.09			7.95	2.15			
202	0.167	2	0.22	8.65			6.51	2.15			
203	0.000	2	0.22	8.65			6.51	2.15			
203	0.167	2	0.19	7.53			5.38	2.15			
204	0.000	2	0.19	7.53			5.38	2.15			
204	0.167	2	0.17	6.67			4.53	2.15			
205	0.000	2	0.17	6.67			4.53	2.15			
205	0.167	2	0.16	6.44			4.29	2.15			
206	0.000	2	0.16	6.44			4.29	2.15			
206	0.167	2	0.16	6.44			4.29	2.15			
207	0.000	2	0.16	6.44			4.29	2.15			
207	0.167	2	0.16	6.44			4.29	2.15			
208	0.000	2	0.16	6.44			4.29	2.15			
208	0.167	2	0.16	6.44			4.29	2.15			
209	0.000	2	0.16	6.44			4.29	2.15			
209	0.167	2	0.16	6.44			4.29	2.15			
210	0.000	2	0.16	6.44			4.29	2.15			
210	0.167	2	0.16	6.44			4.29	2.15			
211	0.000	2	0.16	6.44			4.29	2.15			
211	0.167	2	0.17	6.84			4.69	2.15			
212	0.000	2	0.17	6.84			4.69	2.15			
212	0.167	2	0.19	7.73			5.59	2.15			
213	0.000	2	0.19	7.73			5.59	2.15			
213	0.167	2	0.22	8.90			6.76	2.15			
214	0.000	2	0.22	8.90			6.76	2.15			
214	0.167	2	0.26	10.44			8.30	2.15			
302	0.000	2	0.26	10.44			8.30	2.15			
302	0.167	2	0.22	8.90			6.76	2.15			
303	0.000	2	0.22	8.90			6.76	2.15			
303	0.167	2	0.19	7.73			5.59	2.15			
304	0.000	2	0.19	7.73			5.59	2.15			
304	0.167	2	0.17	6.84			4.69	2.15			
305	0.000	2	0.17	6.84			4.69	2.15			
305	0.167	2	0.16	6.44			4.29	2.15			
306	0.000	2	0.16	6.44			4.29	2.15			
306	0.167	2	0.16	6.44			4.29	2.15			
307	0.000	2	0.16	6.44			4.29	2.15			
307	0.167	2	0.16	6.44			4.29	2.15			
308	0.000	2	0.16	6.44			4.29	2.15			
308	0.167	2	0.16	6.44			4.29	2.15			
309	0.000	2	0.16	6.44			4.29	2.15			
309	0.167	2	0.16	6.44			4.29	2.15			
310	0.000	2	0.16	6.44			4.29	2.15			
310	0.167	2	0.16	6.44			4.29	2.15			
311	0.000	2	0.16	6.44			4.29	2.15			
311	0.167	2	0.17	6.67			4.53	2.15			
312	0.000	2	0.17	6.67			4.53	2.15			
312	0.167	2	0.19	7.53			5.38	2.15			
313	0.000	2	0.19	7.53			5.38	2.15			
313	0.167	2	0.22	8.65			6.51	2.15			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Longitudinal Reinforcements - Design case No. 1

Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
314	0.000	2	0.22	8.65			6.51	2.15			
314	0.167	2	0.25	10.09			7.95	2.15			
402	0.000	3	0.17	8.60	0.537		2.80	5.81			
402	0.142	3	0.22	11.18	0.537		5.59	5.59			
403	0.000	3	0.22	11.18	0.537		5.59	5.59			
403	0.142	3	0.22	11.18	0.537		5.59	5.59			
404	0.000	3	0.22	11.18	0.537		5.59	5.59			
404	0.142	3	0.22	11.18	0.537		5.59	5.59			
405	0.000	3	0.22	11.18	0.537		5.59	5.59			
405	0.142	3	0.17	8.51	0.537		5.72	2.80			
406	0.000	3	0.17	8.51	0.537		5.72	2.80			
406	0.142	3	0.20	10.01	0.450		7.22	2.80			
407	0.000	3	0.20	10.01	0.450		7.22	2.80			
407	0.142	3	0.17	8.54			8.54				
408	0.000	3	0.17	8.54			8.54				
408	0.142	3	0.19	9.64			9.64				
409	0.000	3	0.19	9.64			9.64				
409	0.142	3	0.21	10.51			10.50				
410	0.000	3	0.21	10.51			10.50				
410	0.142	3	0.22	11.13			11.12				
411	0.000	3	0.22	11.13			11.12				
411	0.142	3	0.23	11.50			11.49				
412	0.000	3	0.23	11.50			11.49				
412	0.142	3	0.23	11.62			11.62				
413	0.000	3	0.23	11.62			11.62				
413	0.142	3	0.23	11.50			11.49				
414	0.000	3	0.23	11.50			11.49				
414	0.142	3	0.22	11.13			11.12				
415	0.000	3	0.22	11.13			11.12				
415	0.142	3	0.21	10.51			10.50				
416	0.000	3	0.21	10.51			10.50				
416	0.142	3	0.19	9.64			9.64				
417	0.000	3	0.19	9.64			9.64				
417	0.142	3	0.17	8.54			8.54				
418	0.000	3	0.17	8.54			8.54				
418	0.142	3	0.20	10.01	0.450		7.22	2.80			
419	0.000	3	0.20	10.01	0.450		7.22	2.80			
419	0.142	3	0.17	8.51	0.537		5.72	2.80			
420	0.000	3	0.17	8.51	0.537		5.72	2.80			
420	0.142	3	0.22	11.18	0.537		5.59	5.59			
421	0.000	3	0.22	11.18	0.537		5.59	5.59			
421	0.142	3	0.22	11.18	0.537		5.59	5.59			
422	0.000	3	0.22	11.18	0.537		5.59	5.59			
422	0.142	3	0.22	11.18	0.537		5.59	5.59			
423	0.000	3	0.22	11.18	0.537		5.59	5.59			
423	0.142	3	0.17	8.60	0.537		2.80	5.81			

Note: Layer includes reinforcements for torsion if followed by T

Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
Asl total longitudinal reinforcement
vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

Shear Reinforcements per Cutted Part of Section - Design case No. 1

Beam	x[m]	SNo	Asl-Mt [cm ² /m]	As/s [cm ² /m]	As/s-1 [cm ² /m]
102	0.000	1	0.00		9.14
102	0.106	1	0.00		9.22

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Shear Reinforcements per Cutted Part of Section - Design case No. 1

Beam	x[m]	SNo	Asl-Mt [cm ² /m]	As/s [cm ² /m]	As/s-1 [cm ² /m]
103	0.000	1	0.00		8.50
103	0.106	1	0.00		8.58
104	0.000	1	0.00		7.86
104	0.106	1	0.00		7.94
105	0.000	1	0.00		7.22
105	0.106	1	0.00		7.30
106	0.000	1	0.00		6.59
106	0.106	1	0.00		6.67
107	0.000	1	0.00		5.95
107	0.106	1	0.00		6.03
108	0.000	1	0.00		5.32
108	0.106	1	0.00		5.40
109	0.000	1	0.00		4.65
109	0.106	1	0.00		4.77
124	0.000	1	0.00		4.77
124	0.106	1	0.00		4.65
125	0.000	1	0.00		5.40
125	0.106	1	0.00		5.32
126	0.000	1	0.00		6.03
126	0.106	1	0.00		5.95
127	0.000	1	0.00		6.67
127	0.106	1	0.00		6.59
128	0.000	1	0.00		7.30
128	0.106	1	0.00		7.22
129	0.000	1	0.00		7.94
129	0.106	1	0.00		7.86
130	0.000	1	0.00		8.58
130	0.106	1	0.00		8.50
131	0.000	1	0.00		9.22
131	0.106	1	0.00		9.14
402	0.000	3	0.00		8.49
402	0.142	3	0.00		7.72
403	0.000	3	0.00		7.72
403	0.142	3	0.00		6.95
404	0.000	3	0.00		6.95
404	0.142	3	0.00		6.18
405	0.000	3	0.00		6.18
405	0.142	3	0.00		5.41
406	0.000	3	0.00		5.41
406	0.142	3	0.00		4.63
407	0.000	3	0.00		4.63
418	0.142	3	0.00		4.63
419	0.000	3	0.00		4.63
419	0.142	3	0.00		5.41
420	0.000	3	0.00		5.41
420	0.142	3	0.00		6.18
421	0.000	3	0.00		6.18
421	0.142	3	0.00		6.95
422	0.000	3	0.00		6.95
422	0.142	3	0.00		7.72
423	0.000	3	0.00		7.72
423	0.142	3	0.00		8.49

Asl-Mt nominal longitudinal reinforcement per circumference of
 equivalent section due to torsion
 As/s area of transverse reinforcements
 As/s-1 total transverse reinforcement per layer and cutted element

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ (ΑΣΤΟΧΙΑΣ + ΣΕΙΣΜΙΚΩΝ)

Maximum Utilisation Level

	N	Vy	Vz	My	Mz	Mtp	Mts	Mb	Ncr	SCL	Total
	$\sigma-x$	$\sigma+x$	τ	$\sigma-v$	$\sigma-s$	$\sigma-dyn$	As-l	As-v	crack	c/t	
Section 1	0.000	0.000	0.323	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Πυθμένα	0.000	0.000	0.000	0.323	-	-	1.000	1.000	-	-	
Section 2	0.000	0.000	0.106	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Τοίχοι	0.000	0.000	0.000	0.000	-	-	1.000	-	-	-	
Section 3	0.000	0.000	0.298	0.000	0.000	0.000	0.000	0.000	-	-	1.000
Πλάκα Οροφής	0.000	0.000	0.000	0.298	-	-	1.000	1.000	-	-	
Total	0.000	0.000	0.323	0.000	0.000	0.000	0.000	0.000	-	-	1.000
	0.000	0.000	0.000	0.323	-	-	1.000	1.000	-	-	
N normal force Vy,Vz shear force My,Mz bending Mtp,Mts torsion (p)rimary and (s)econdary Mb warping moment Ncr flexural buckling SCL cross-section class $\sigma-x$ longitud. compressive stress $\sigma+x$ longitud. tensile stress τ shear stress $\sigma-v$ von Mises stress $\sigma-s$ stress in reinforcements $\sigma-dyn$ stress range As-l longitudinal reinforcements As-v transverse reinforcements crack crack width c/t stress dependant utilisation level (see AQB Manual 2.3.2) Total most unfavorable utilisation for all checks											

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Default design code is EuroNorm EN 1992-1-1:2004 Concrete Structures (Europe) V 2018
Structure and Tab.7.1N: AN (Buildings)

Selected Beam Elements

Selection	NoA	NoE	x[m]	Type
BEAM	102	131		
BEAM	202	214		
BEAM	302	314		
BEAM	402	423		
NoA,NoE range of element numbers				
x[m] x-ordinate of beam section or station on axis				
Type element type				

Reinforcement will be accounted for sectional values as defined in AQUA
Reinforcements saved as Design case No. 2
Reinforcements superposed with existing Design case No. 1

Nonlinear Stresses

Parameters for Nonlinear Stresses

Iteration for all forces and moments
Interaction thin walled normal- and shearstress via Prandtl flow rule
Design against cracks according to EuroNorm EN 1992-1-1:2004 Concrete Structures
Limits for the effective zone h-min= 0.0 h-max= 800.0 [mm]
Design values of crack width 0.200 [mm]
Coefficient kt of load duration (EN 1992-1-1 Eq. 7.9) 0.40
Material of sections uses Serviceability strain-stress law without safety factors
Material of reinforcements uses Serviceability strain-stress law without safety factors

Applied material properties

Mat	Temp Lev.	Safety factor [-]	Max.compr stress [MPa]	at strain [o/oo]	Max.tens stress [MPa]	at strain [o/oo]	Tension-stiffening [MPa]	Bond factor [-]
1	0	1.000	-33.00	-2.07	0.00	0.00	fc,t = 0.00	
2	0	1.000	-575.00	-75.00	575.00	75.00		0.80
11	0	1.000	-28.00	-1.97	0.00	0.00	fc,t = 0.00	

Maximum Stresses and Checked Limits

Mat	Check or Criterion		Value	Limit	Unit	Level	LC	Beam	x[m]
1	Longitud. compressive stress	σ-x	-11.45		MPa		428	214	0.167
	Longitud. tensile stress	σ+x	0.00		MPa		427	109	0.000
2	Longitud. compressive stress	σ-x	-20.88		MPa		427	116	0.106
	Longitud. tensile stress	σ+x	196.41		MPa		427	113	0.106

Check for crack width passed with additional reinforcements✓

Stiffness is not saved in database

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
102	0.000	1	0.33	16.42	0.450		13.62	2.80			
102	0.106	1	0.27	13.48	0.537		10.69	2.80			
103	0.000	1	0.27	13.48	0.537		10.69	2.80			
103	0.106	1	0.27	13.29	0.537		7.70	5.59			
104	0.000	1	0.27	13.29	0.537		7.70	5.59			
104	0.106	1	0.22	11.18	0.537		5.59	5.59			
105	0.000	1	0.22	11.18	0.537		5.59	5.59			
105	0.106	1	0.27	13.63	0.537		5.59	8.04			
106	0.000	1	0.27	13.63	0.537		5.59	8.04			
106	0.106	1	0.26	13.15	0.537		2.80	10.35			
107	0.000	1	0.26	13.15	0.537		2.80	10.35			
107	0.106	1	0.30	15.10	0.537		2.80	12.31			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
108	0.000	1	0.30	15.10	0.450		2.80	12.31			
108	0.106	1	0.34	16.78	0.450		2.80	13.99			
109	0.000	1	0.34	16.78	0.450		2.80	13.99			
109	0.106	1	0.31	15.40	0.450			15.40			
110	0.000	1	0.31	15.40				15.40			
110	0.106	1	0.33	16.63				16.62			
111	0.000	1	0.33	16.63				16.62			
111	0.106	1	0.35	17.64				17.64			
112	0.000	1	0.35	17.64				17.64			
112	0.106	1	0.37	18.47				18.46			
113	0.000	1	0.37	18.47				18.46			
113	0.106	1	0.38	19.22				19.22			
114	0.000	1	0.38	19.22				19.22			
114	0.106	1	0.40	19.98				19.98			
115	0.000	1	0.40	19.98				19.98			
115	0.106	1	0.41	20.44				20.43			
116	0.000	1	0.41	20.44				20.43			
116	0.106	1	0.41	20.59				20.59			
117	0.000	1	0.41	20.59				20.59			
117	0.106	1	0.41	20.44				20.43			
118	0.000	1	0.41	20.44				20.43			
118	0.106	1	0.40	19.98				19.98			
119	0.000	1	0.40	19.98				19.98			
119	0.106	1	0.38	19.22				19.22			
120	0.000	1	0.38	19.22				19.22			
120	0.106	1	0.37	18.47				18.46			
121	0.000	1	0.37	18.47				18.46			
121	0.106	1	0.35	17.64				17.64			
122	0.000	1	0.35	17.64				17.64			
122	0.106	1	0.33	16.63				16.62			
123	0.000	1	0.33	16.63				16.62			
123	0.106	1	0.31	15.40				15.40			
124	0.000	1	0.31	15.40	0.450			15.40			
124	0.106	1	0.34	16.78	0.450		2.80	13.99			
125	0.000	1	0.34	16.78	0.450		2.80	13.99			
125	0.106	1	0.30	15.10	0.450		2.80	12.31			
126	0.000	1	0.30	15.10	0.537		2.80	12.31			
126	0.106	1	0.26	13.15	0.537		2.80	10.35			
127	0.000	1	0.26	13.15	0.537		2.80	10.35			
127	0.106	1	0.27	13.63	0.537		5.59	8.04			
128	0.000	1	0.27	13.63	0.537		5.59	8.04			
128	0.106	1	0.22	11.18	0.537		5.59	5.59			
129	0.000	1	0.22	11.18	0.537		5.59	5.59			
129	0.106	1	0.27	13.29	0.537		7.70	5.59			
130	0.000	1	0.27	13.29	0.537		7.70	5.59			
130	0.106	1	0.27	13.48	0.537		10.69	2.80			
131	0.000	1	0.27	13.48	0.537		10.69	2.80			
131	0.106	1	0.33	16.42	0.450		13.62	2.80			
202	0.000	2	0.40	15.86			13.71	2.15			
202	0.167	2	0.35	14.12			11.98	2.15			
203	0.000	2	0.35	14.12			11.98	2.15			
203	0.167	2	0.32	12.60			10.46	2.15			
204	0.000	2	0.32	12.60			10.46	2.15			
204	0.167	2	0.28	11.12			8.97	2.15			
205	0.000	2	0.28	11.12			8.97	2.15			
205	0.167	2	0.24	9.70			7.56	2.15			

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

Beam	x[m]	SNo	ρ [o/o]	As1 [cm2]	vm [m]	As1-0 [cm2]	As1-1 [cm2]	As1-2 [cm2]	As1-3 [cm2]	As1-4 [cm2]	As1-5 [cm2]
206	0.000	2	0.24	9.70			7.56	2.15			
206	0.167	2	0.22	8.74			6.59	2.15			
207	0.000	2	0.22	8.74			6.59	2.15			
207	0.167	2	0.21	8.23			6.09	2.15			
208	0.000	2	0.21	8.23			6.09	2.15			
208	0.167	2	0.21	8.21			6.06	2.15			
209	0.000	2	0.21	8.21			6.06	2.15			
209	0.167	2	0.22	8.67			6.53	2.15			
210	0.000	2	0.22	8.67			6.53	2.15			
210	0.167	2	0.24	9.63			7.48	2.15			
211	0.000	2	0.24	9.63			7.48	2.15			
211	0.167	2	0.28	11.08			8.94	2.15			
212	0.000	2	0.28	11.08			8.94	2.15			
212	0.167	2	0.32	12.67			10.52	2.15			
213	0.000	2	0.32	12.67			10.52	2.15			
213	0.167	2	0.36	14.32			12.17	2.15			
214	0.000	2	0.36	14.32			12.17	2.15			
214	0.167	2	0.41	16.26			14.11	2.15			
302	0.000	2	0.41	16.26			14.11	2.15			
302	0.167	2	0.36	14.32			12.17	2.15			
303	0.000	2	0.36	14.32			12.17	2.15			
303	0.167	2	0.32	12.67			10.52	2.15			
304	0.000	2	0.32	12.67			10.52	2.15			
304	0.167	2	0.28	11.08			8.94	2.15			
305	0.000	2	0.28	11.08			8.94	2.15			
305	0.167	2	0.24	9.63			7.48	2.15			
306	0.000	2	0.24	9.63			7.48	2.15			
306	0.167	2	0.22	8.67			6.53	2.15			
307	0.000	2	0.22	8.67			6.53	2.15			
307	0.167	2	0.21	8.21			6.06	2.15			
308	0.000	2	0.21	8.21			6.06	2.15			
308	0.167	2	0.21	8.23			6.09	2.15			
309	0.000	2	0.21	8.23			6.09	2.15			
309	0.167	2	0.22	8.74			6.59	2.15			
310	0.000	2	0.22	8.74			6.59	2.15			
310	0.167	2	0.24	9.70			7.56	2.15			
311	0.000	2	0.24	9.70			7.56	2.15			
311	0.167	2	0.28	11.12			8.97	2.15			
312	0.000	2	0.28	11.12			8.97	2.15			
312	0.167	2	0.32	12.60			10.46	2.15			
313	0.000	2	0.32	12.60			10.46	2.15			
313	0.167	2	0.35	14.12			11.98	2.15			
314	0.000	2	0.35	14.12			11.98	2.15			
314	0.167	2	0.40	15.86			13.71	2.15			
402	0.000	3	0.30	15.24	0.537		2.80	12.44			
402	0.142	3	0.29	14.44	0.537		5.59	8.85			
403	0.000	3	0.29	14.44	0.537		5.59	8.85			
403	0.142	3	0.22	11.18	0.537		5.59	5.59			
404	0.000	3	0.22	11.18	0.537		5.59	5.59			
404	0.142	3	0.30	14.88	0.537		9.29	5.59			
405	0.000	3	0.30	14.88	0.537		9.29	5.59			
405	0.142	3	0.29	14.65	0.537		11.86	2.80			
406	0.000	3	0.29	14.65	0.537		11.86	2.80			
406	0.142	3	0.34	16.76	0.450		13.97	2.80			
407	0.000	3	0.34	16.76	0.450		13.97	2.80			
407	0.142	3	0.31	15.66			15.66				

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
 - ΑΓΩΓΟΣ Α3 -
 ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ (ΣΥΝΔΥΑΣΜΩΝ ΛΕΙΤΟΥΡΓΙΚΟΤΗΤΑΣ)

Longitudinal Reinforcements - Design case No. 2

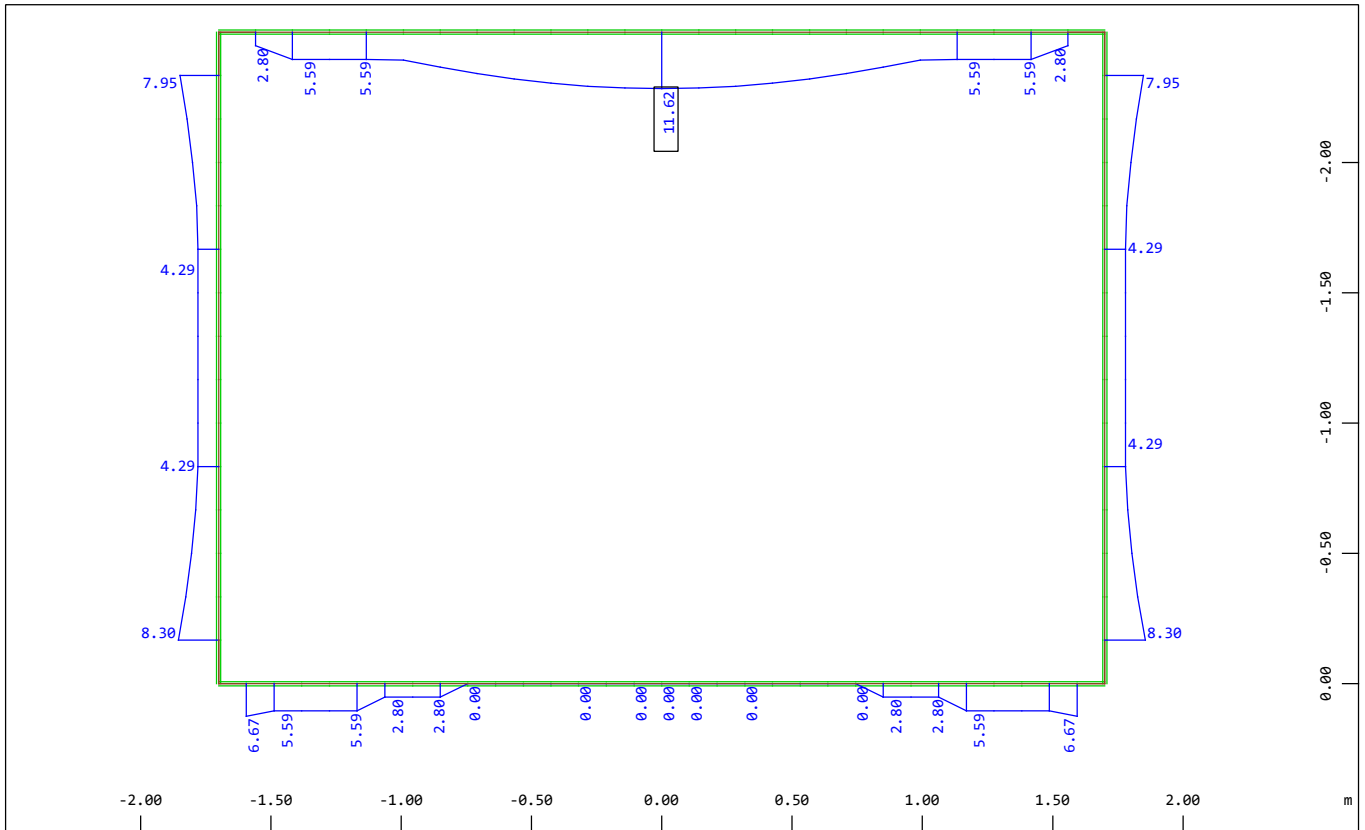
Beam	x[m]	SNo	ρ [o/o]	Asl [cm ²]	vm [m]	Asl-0 [cm ²]	Asl-1 [cm ²]	Asl-2 [cm ²]	Asl-3 [cm ²]	Asl-4 [cm ²]	Asl-5 [cm ²]
408	0.000	3	0.31	15.66			15.66				
408	0.142	3	0.34	17.04			17.04				
409	0.000	3	0.34	17.04			17.04				
409	0.142	3	0.36	18.09			18.09				
410	0.000	3	0.36	18.09			18.09				
410	0.142	3	0.38	18.84			18.83				
411	0.000	3	0.38	18.84			18.83				
411	0.142	3	0.39	19.47			19.46				
412	0.000	3	0.39	19.47			19.46				
412	0.142	3	0.39	19.72			19.71				
413	0.000	3	0.39	19.72			19.71				
413	0.142	3	0.39	19.47			19.46				
414	0.000	3	0.39	19.47			19.46				
414	0.142	3	0.38	18.84			18.83				
415	0.000	3	0.38	18.84			18.83				
415	0.142	3	0.36	18.09			18.09				
416	0.000	3	0.36	18.09			18.09				
416	0.142	3	0.34	17.04			17.04				
417	0.000	3	0.34	17.04			17.04				
417	0.142	3	0.31	15.66			15.66				
418	0.000	3	0.31	15.66			15.66				
418	0.142	3	0.34	16.76	0.450		13.97	2.80			
419	0.000	3	0.34	16.76	0.450		13.97	2.80			
419	0.142	3	0.29	14.65	0.537		11.86	2.80			
420	0.000	3	0.29	14.65	0.537		11.86	2.80			
420	0.142	3	0.30	14.88	0.537		9.29	5.59			
421	0.000	3	0.30	14.88	0.537		9.29	5.59			
421	0.142	3	0.22	11.18	0.537		5.59	5.59			
422	0.000	3	0.22	11.18	0.537		5.59	5.59			
422	0.142	3	0.29	14.44	0.537		5.59	8.85			
423	0.000	3	0.29	14.44	0.537		5.59	8.85			
423	0.142	3	0.30	15.24	0.537		2.80	12.44			

Note: Layer includes reinforcements for torsion if followed by T

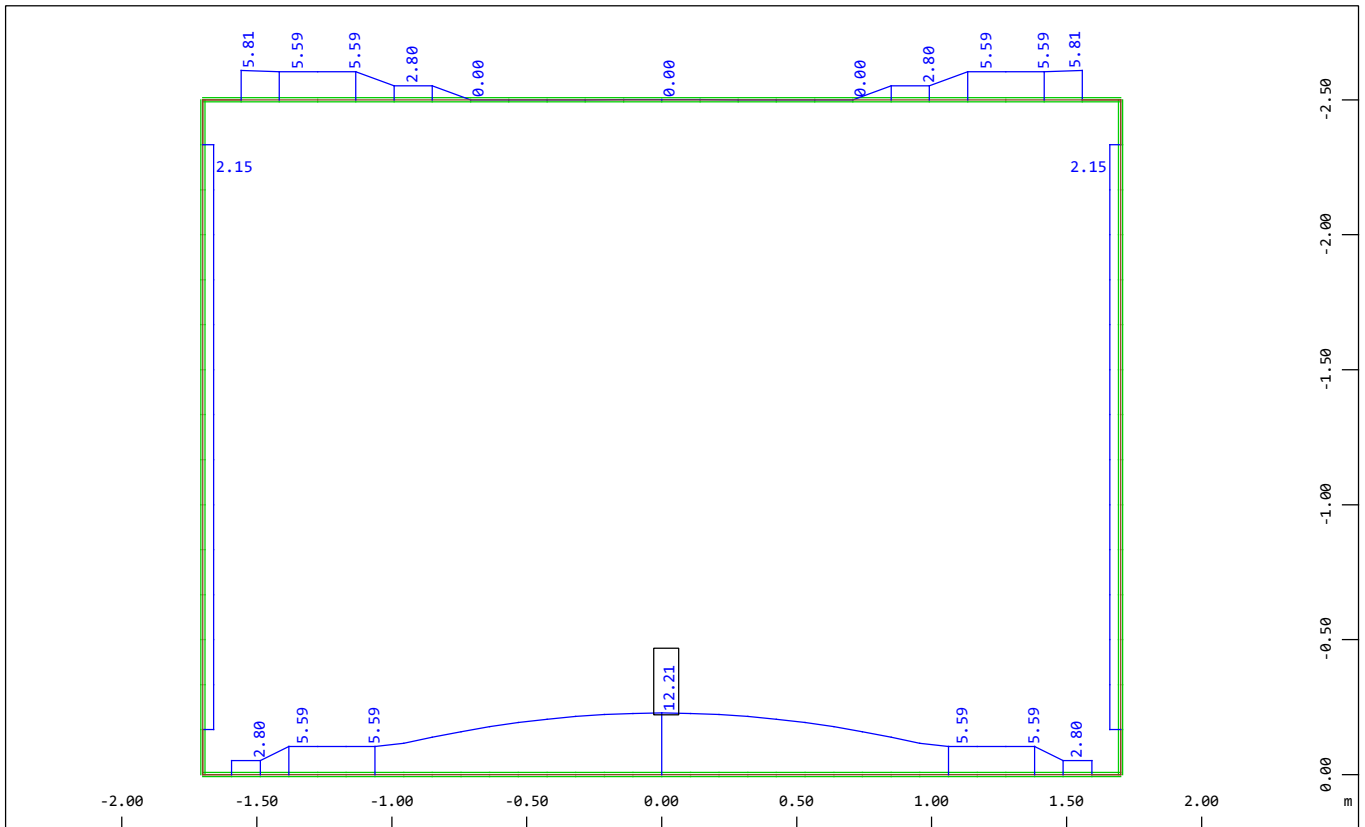
Note: Layer has only compression reinforcements if followed by a quote

ρ geometric part of reinforcements
 Asl total longitudinal reinforcement
 vm shift rule of longitudinal reinforcement (0.0 if already included by normal force)
 Asl-0,Asl-1,Asl-2,Asl-3,Asl-4,Asl-5 longitudinal reinforcement per layer

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΣΤΑΣΙΟΛΟΓΗΣΗ ΣΥΝΔΥΑΣΜΩΝ ΣΧΕΔΙΑΣΜΟΥ

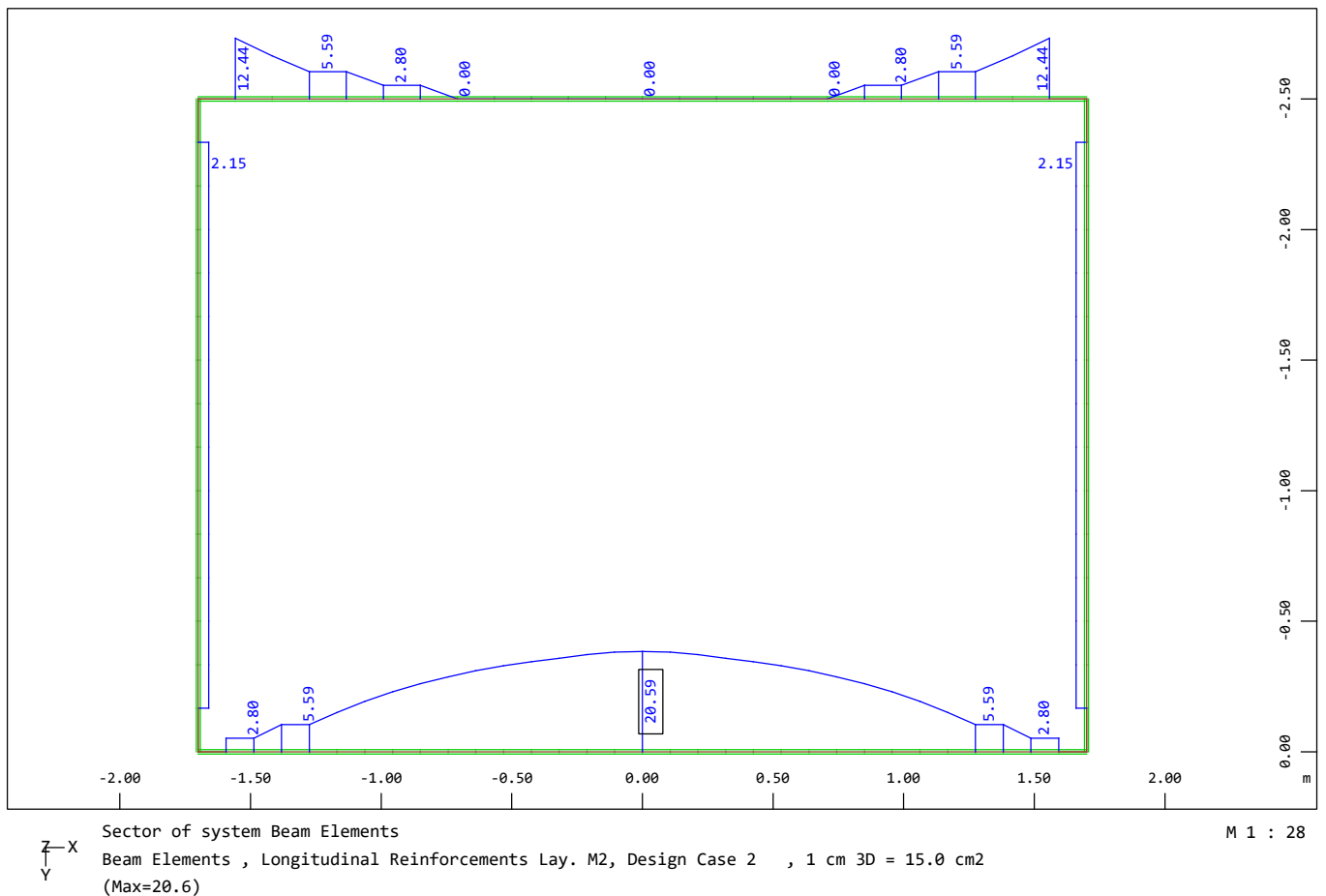
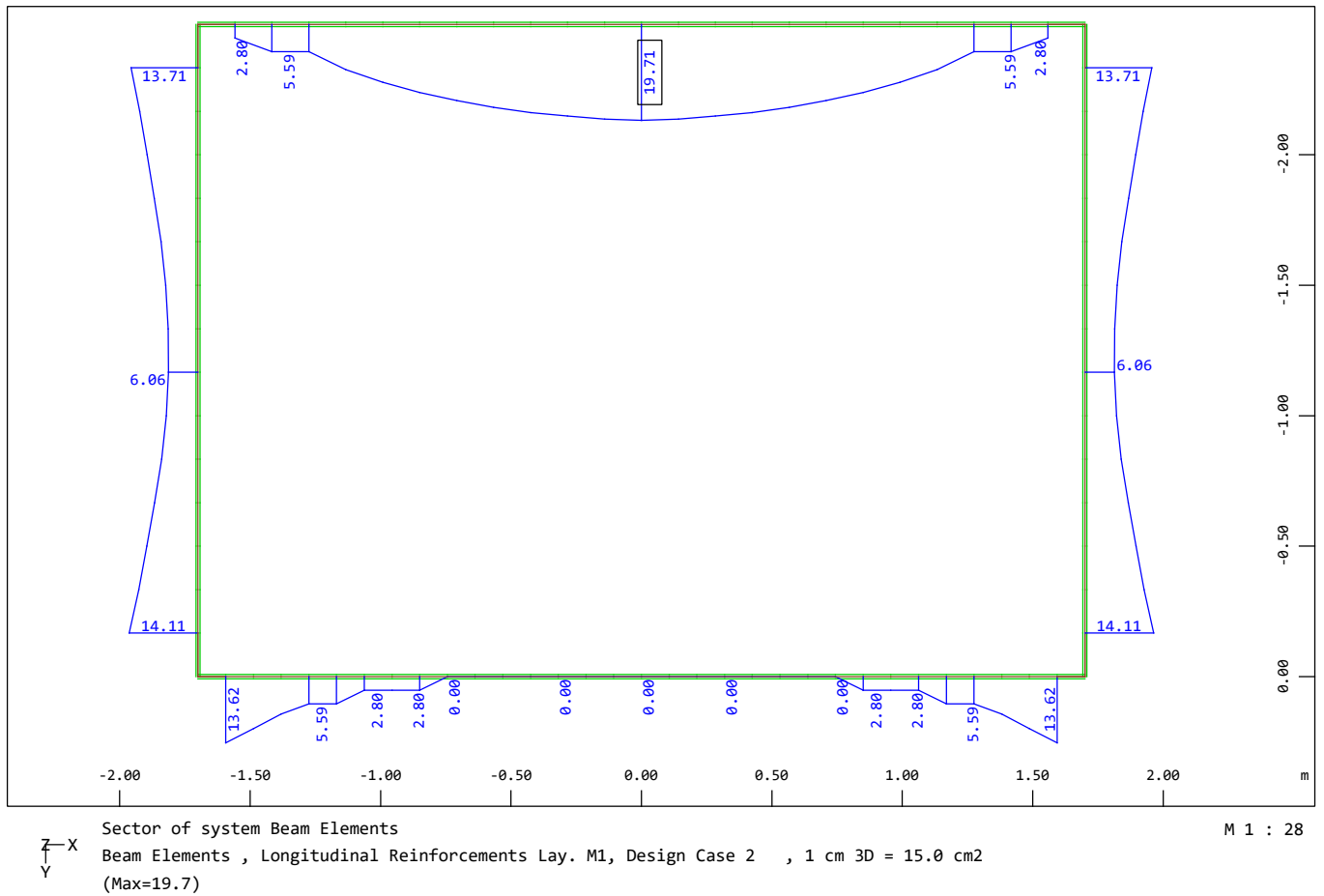


Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M1, Design Case 1 , 1 cm 3D = 15.0 cm2
(Max=11.6)

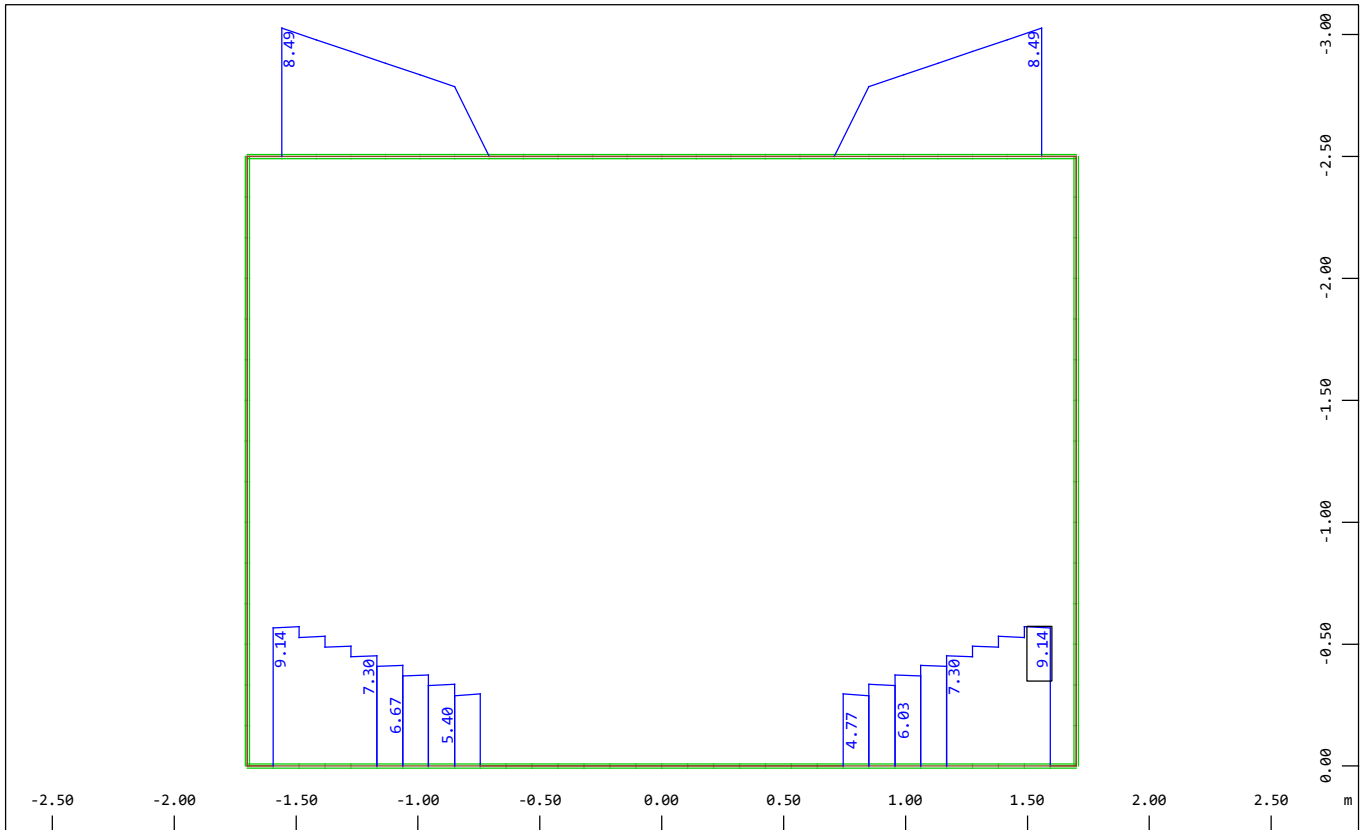


Sector of system Beam Elements
Beam Elements , Longitudinal Reinforcements Lay. M2, Design Case 1 , 1 cm 3D = 15.0 cm2
(Max=12.2)

ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΕΛΕΓΧΟΣ ΕΥΡΟΥΣ ΡΩΓΜΩΝ



ΣΤΑΤΙΚΗ ΜΕΛΕΤΗ ΑΓΩΓΟΥ ΟΜΒΡΙΩΝ ΡΕΜΑΤΟΣ ΛΑΓΚΑΔΑΣ ΠΟΛΗΣ ΜΥΤΙΛΗΝΗΣ
- ΑΓΩΓΟΣ Α3 -
ΑΠΑΙΤΟΥΜΕΝΟΙ ΟΠΛΙΣΜΟΙ - ΔΙΑΤΜΗΣΗΣ



Z-X
Y

Sector of system Beam Elements
Shear reinforcements (maximum), Design Case 2 , (1 cm 3D = unit) Beam Elements (Unit=5.00
cm²/m) (Max=9.22)

M 1 : 31

ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟ

Μυτιλήνη, Αύγουστος 2019

Ο Συντάξας

Ο ΠΡΟΪΣΤΑΜΕΝΟΣ ΤΜΗΜΑΤΟΣ ΜΕΛΕΤΩΝ
ΚΑΤΑΣΚΕΥΗΣ & ΕΠΙΒΛΕΨΗΣ ΕΡΓΩΝ ΔΕΥΑΛ

Μυτιλήνη, 07-08-2019

ΘΕΩΡΗΘΗΚΕ

Ο ΔΙΕΥΘΥΝΤΗΣ ΤΕΧΝ. ΥΠΗΡ. ΔΕΥΑΛ

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