

# VYHLIDKA

## Data - Bars

Bar	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)	Type
1	N/A	N/A	N/A	N/A	N/A	N/A	
201	3421	3422	100x180	C24	3,52	0,0	
202	3421	3423	100x180	C24	4,55	0,0	
217	3445	3446	100x180	C24	3,52	0,0	
218	3445	3447	100x180	C24	4,55	0,0	
219	3448	3449	100x180	C24	3,52	0,0	
220	3448	3450	100x180	C24	4,55	0,0	
221	3451	3452	100x180	C24	3,52	0,0	
222	3451	3453	100x180	C24	4,55	0,0	
223	3454	3455	100x180	C24	3,52	0,0	
224	3454	3456	100x180	C24	4,55	0,0	
225	3457	3458	100x180	C24	3,52	0,0	
226	3457	3459	100x180	C24	4,55	0,0	
227	3460	3461	100x180	C24	3,52	0,0	
228	3460	3462	100x180	C24	4,55	0,0	
229	3463	3464	100x180	C24	3,52	0,0	
230	3463	3465	100x180	C24	4,55	0,0	
233	3467	3468	100x180	C24	3,26	0,0	
234	3469	3470	100x180	C24	3,26	0,0	
235	3471	3472	100x180	C24	3,26	0,0	
236	3473	3474	100x180	C24	3,26	0,0	
237	3475	3476	100x180	C24	3,26	0,0	
238	3477	3478	100x180	C24	3,26	0,0	
239	3479	3480	100x180	C24	3,26	0,0	
240	3481	3482	100x180	C24	3,26	0,0	
241	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## Data - Sections

Section name	Bar list	AX (mm2)	AY (mm2)	AZ (mm2)
100x180	1 201 202 217to230 233to241	18000	15000	15000
Section name	IX (mm4)	IY (mm4)	IZ (mm4)	
100x180	39138215	48600000	15000000	

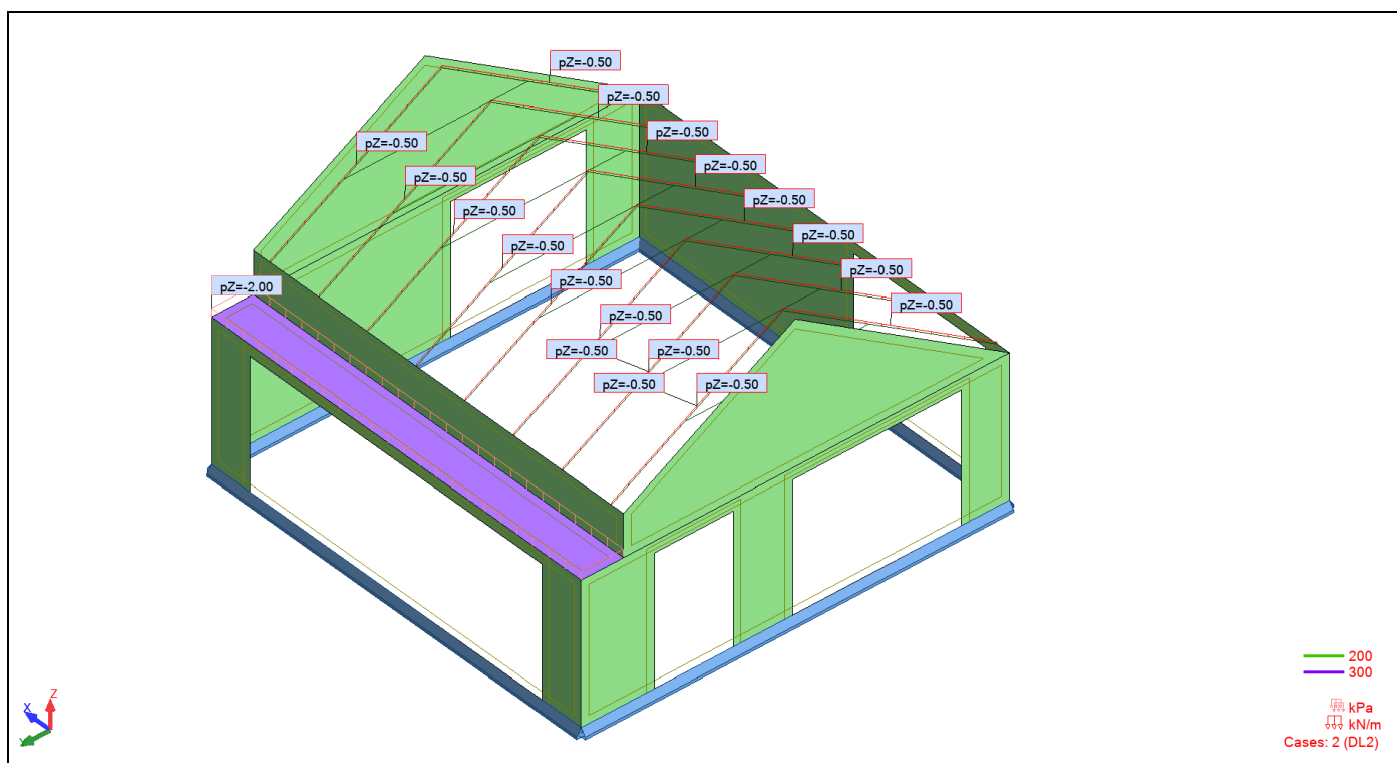
## Data - Materials

	Material	E (MPa)	G (MPa)	NI	LX (1/°C)	RO (kN/m3)	Re (MPa)
1	C25/30	31000,00	12916,67	0,20	0,00	24,53	25,00
2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

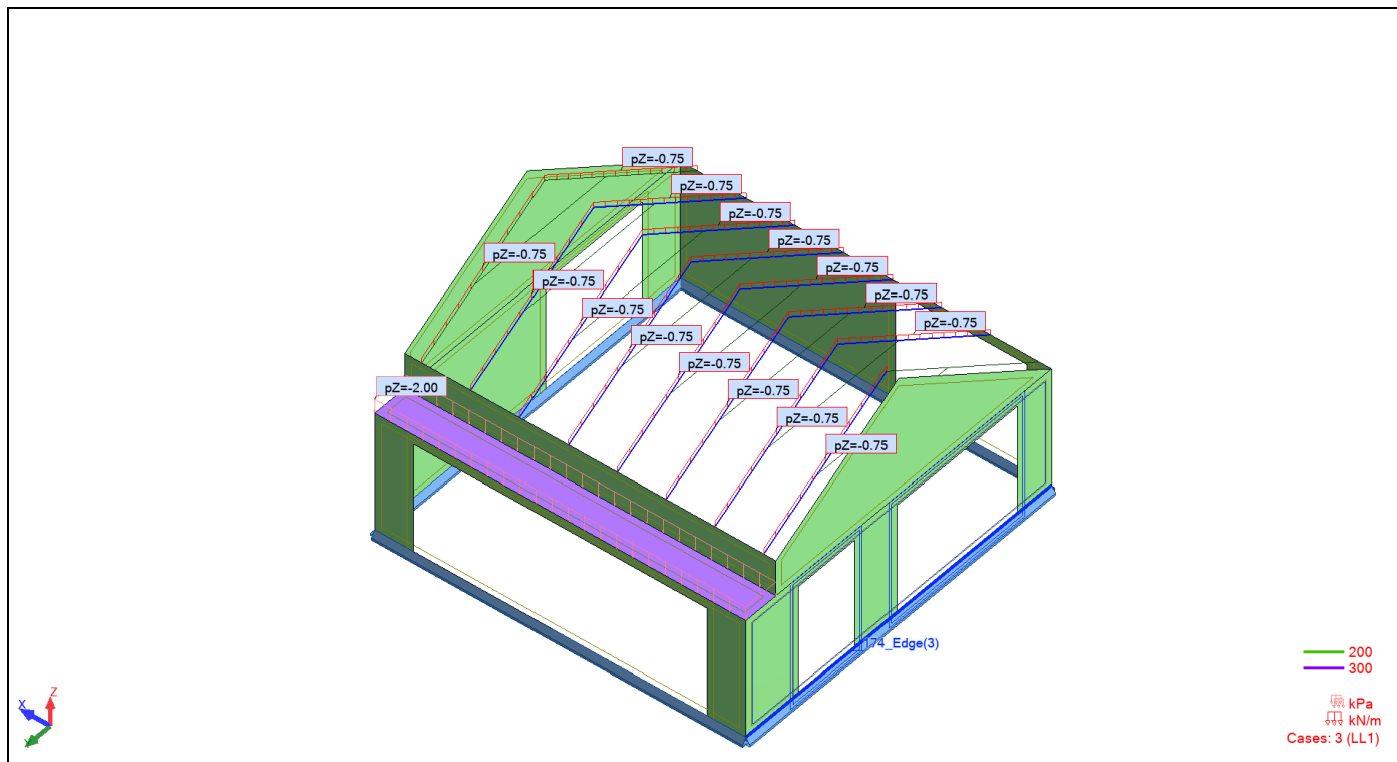
## Data - Supports

Support name	List of nodes														
Pinned	112 115to117 126to128 143 144 186 189 190 232 240 242to245 254 258 259 275 277														
Support name	List of edges										List of objects			Support conditions	
Pinned	174_EDGE(3) 176_EDGE(2) 177_EDGE(2) 179_EDGE(4)													UX UY UZ	

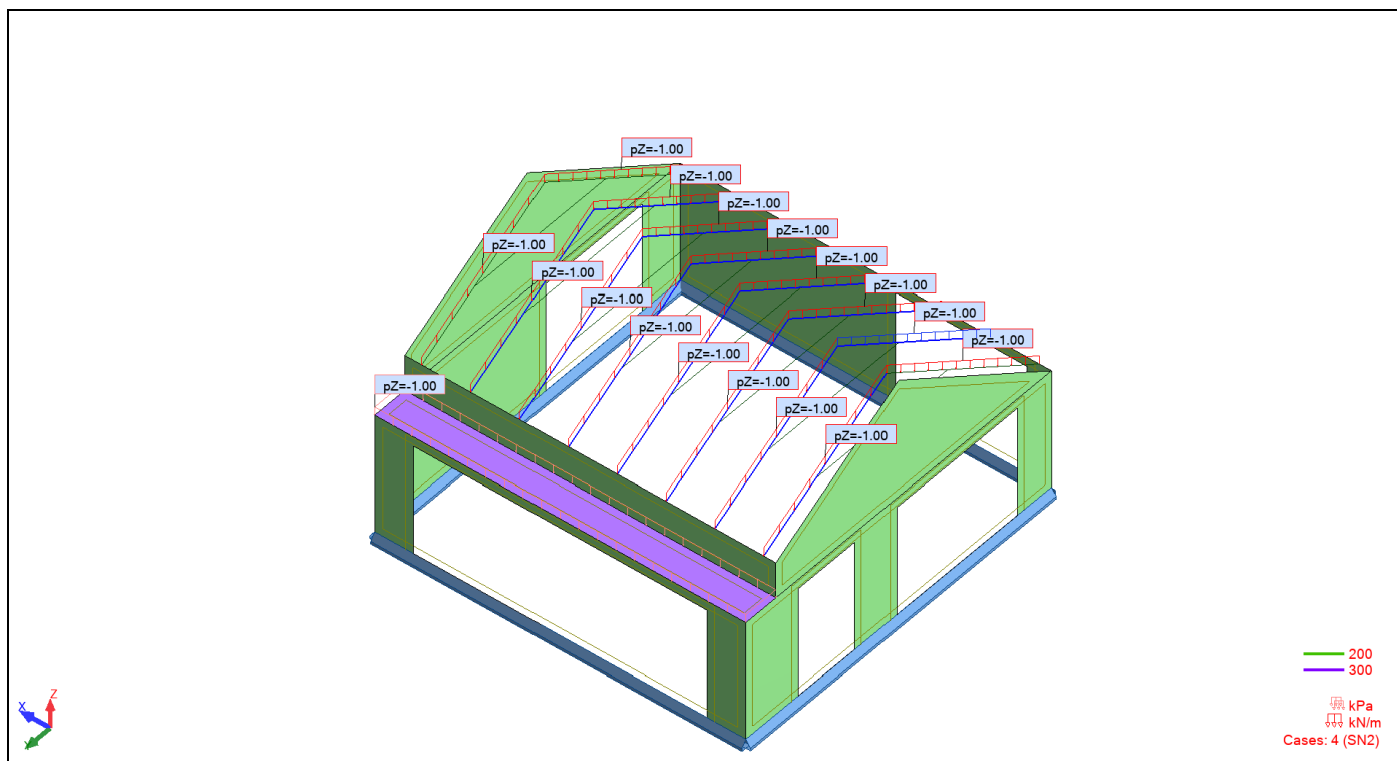
## DL 2



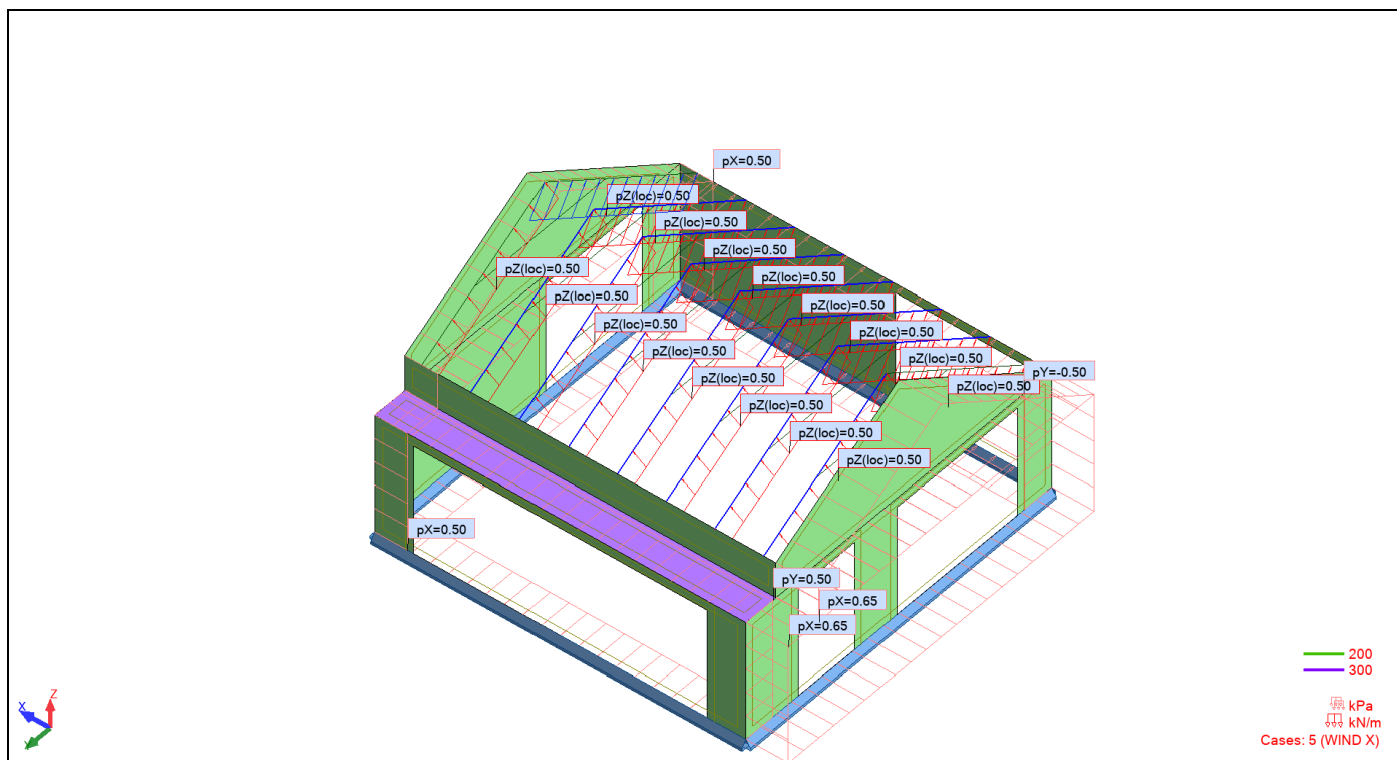
## LL 1



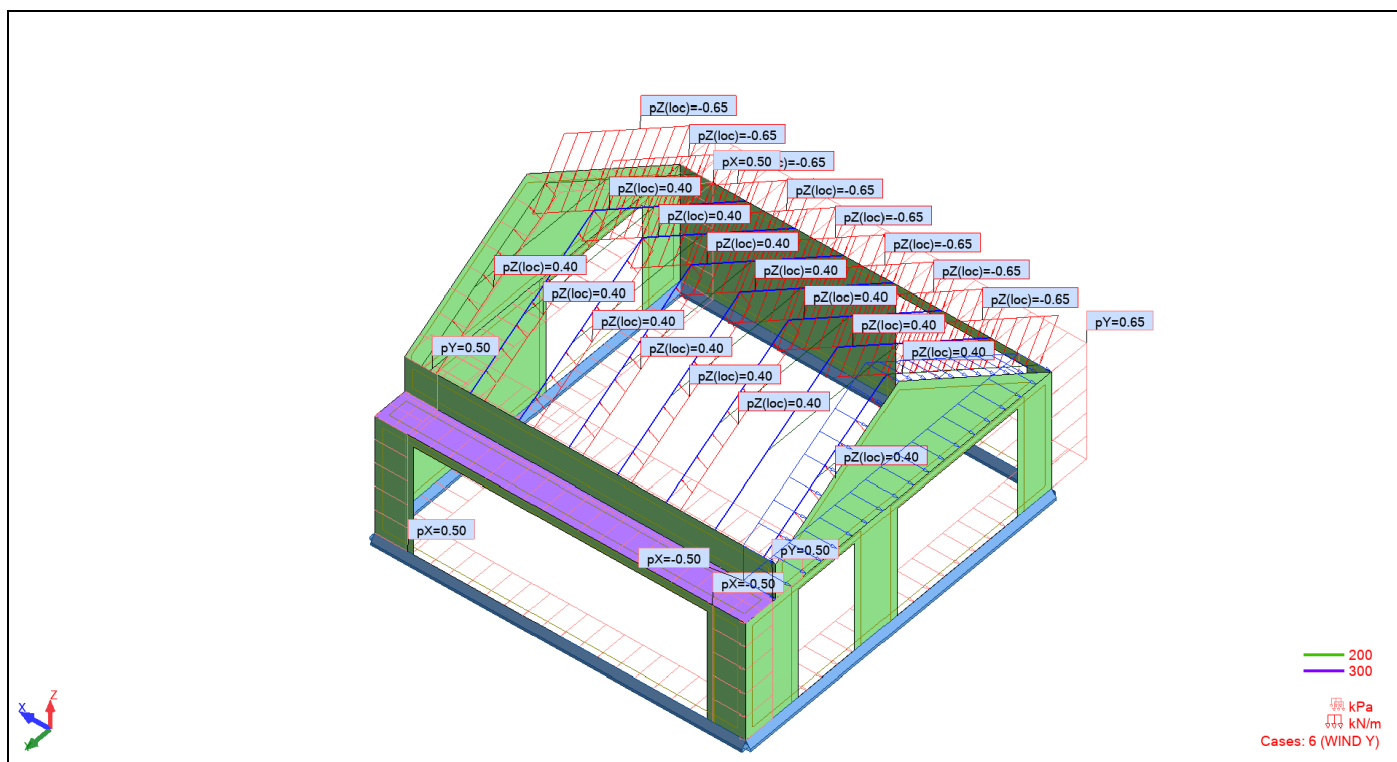
## SN 1



## WIND X



## WIND Y



## Loads - Cases

Case	Label	Case name
1	DL1	DL1
2	DL2	DL2
3	LL1	LL1
4	SN2	SN2
5	WIND X	WIND X
6	WIND Y	WIND Y
7		ULS
8		ULS+
9		ULS-
10		SLS
11		SLS+
12		SLS-

Case	Nature	Analysis type
1	Structural	Static - Linear
2	Non-structural	Static - Linear
3	Category A	Static - Linear
4	Snow H	Static - Linear
5	wind	Static - Linear
6	wind	Static - Linear
7		Static - Linear
8		Static - Linear
9		Static - Linear
10		Static - Linear
11		Static - Linear
12		Static - Linear

## Loads - Values

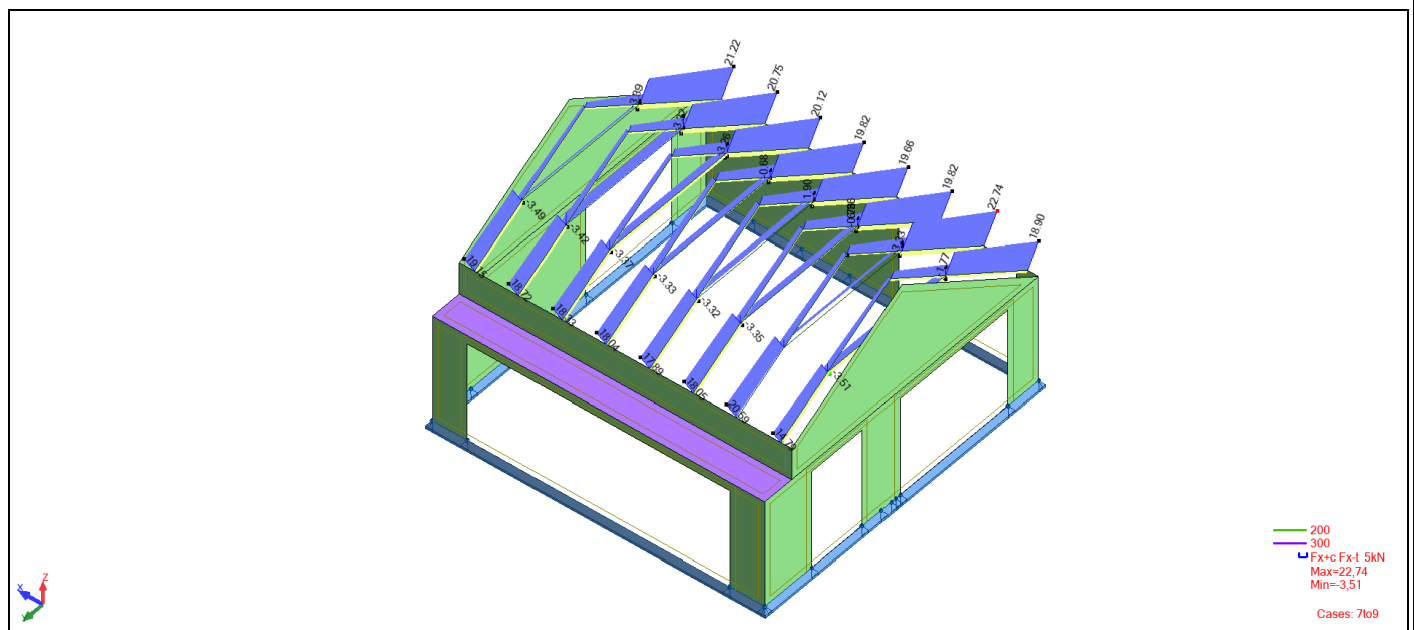
Case	Load type	List	Load values
1	self-weight	174 176 177 179 195 196 198 199 2-01 202 217to230 233to240	PZ Negative Factor=1,00
2	(FE) linear on edges		PZ=-10,00(kN/m)
2	(FE) uniform		PZ=-2,00(kN/m2)
2	(FE) uniform		PZ=-60,00(kN/m2)
2	(FE) planar		PY1=10,00(kN/m2) PY2=10,00(kN/m2) PY3=30,00(kN/m2) N1X=0,0(m) N1Y=0,0(m) N1Z=0,0(m) N2X=7,60(m) N2Y=-0,0(m) N2Z=0,0(m) N3X=7,60(m) N3Y=0,0(m) N3Z=-2,75(-m)
2	(FE) planar		PY1=10,00(kN/m2) PY2=10,00(kN/m2) PY3=30,00(kN/m2) N1X=0,0(m) N1Y=15,00(m) N1Z=0,0(m) N2X=0,0(m) N2Y=-6,05(m) N2Z=0,0(m) N3X=0,0(m) N3Y=6,05(m) N3Z=-2,-75(m)
2	(FE) planar		PX1=10,00(kN/m2) PX2=10,00(kN/m2) PX3=30,00(kN/m2) N1X=0,0(m) N1Y=15,00(m) N1Z=0,0(m) N2X=0,0(m) N2Y=-6,05(m) N2Z=0,0(m) N3X=0,0(m) N3Y=6,05(m) N3Z=-2,-75(m)
2	(FE) planar		PX1=-10,00(kN/m2) PX2=-10,00(kN/m2) PX3=-30,00(kN/m2) N1X=7,60(m) N1Y=0,0(m) N1Z=0,0(m) N2X=7,60(m) N2Y=15,00(m) N2Z=0,0(m) N3X=7,60(m) N3Y=15,00(m) N3Z=-2,75(m)
2	uniform load	201 217	PZ=-0,50(kN/m)
2	uniform load	201 202 217to230	PZ=-0,50(kN/m)
2	(FE) uniform	199	PZ=-2,00(kN/m2)

Case	Load type	List	Load values
3	(FE) linear on edges		PZ=-5,00(kN/m)
3	(FE) uniform		PZ=-1,00(kN/m2)
3	(FE) uniform	199	PZ=-2,00(kN/m2)
3	uniform load	201 217to230	PZ=-0,75(kN/m)
4	(FE) uniform		PZ=-1,00(kN/m2)
4	(FE) linear on edges		PZ=-5,00(kN/m)
4	uniform load	201 202 217to230	PZ=-1,00(kN/m)
4	(FE) uniform	199	PZ=-1,00(kN/m2)
5	(FE) uniform		PX=0,65(kN/m2)
5	(FE) uniform		PX=0,50(kN/m2)
5	(FE) uniform		PY=0,50(kN/m2)
5	(FE) uniform		PY=-0,50(kN/m2)
5	(FE) uniform	174 198	PX=0,65(kN/m2)
5	(FE) uniform	179 196	PX=0,50(kN/m2)
5	(FE) uniform	176	PY=0,50(kN/m2)
5	(FE) uniform	177	PY=-0,50(kN/m2)
5	uniform load	201 202 217to230	PZ=0,50(kN/m) local
6	(FE) uniform		PY=0,50(kN/m2)
6	(FE) uniform		PX=0,50(kN/m2)
6	(FE) uniform		PX=-0,50(kN/m2)
6	(FE) uniform		PY=0,65(kN/m2)
6	(FE) uniform	177	PY=0,65(kN/m2)
6	(FE) uniform	176 195	PY=0,50(kN/m2)
6	(FE) uniform	179 196	PX=0,50(kN/m2)
6	(FE) uniform	174 198	PX=-0,50(kN/m2)
6	uniform load	202	PZ=-0,65(kN/m) local
6	uniform load	218to230By2	PZ=-0,65(kN/m) local
6	uniform load	201 218to230	PZ=0,40(kN/m) local

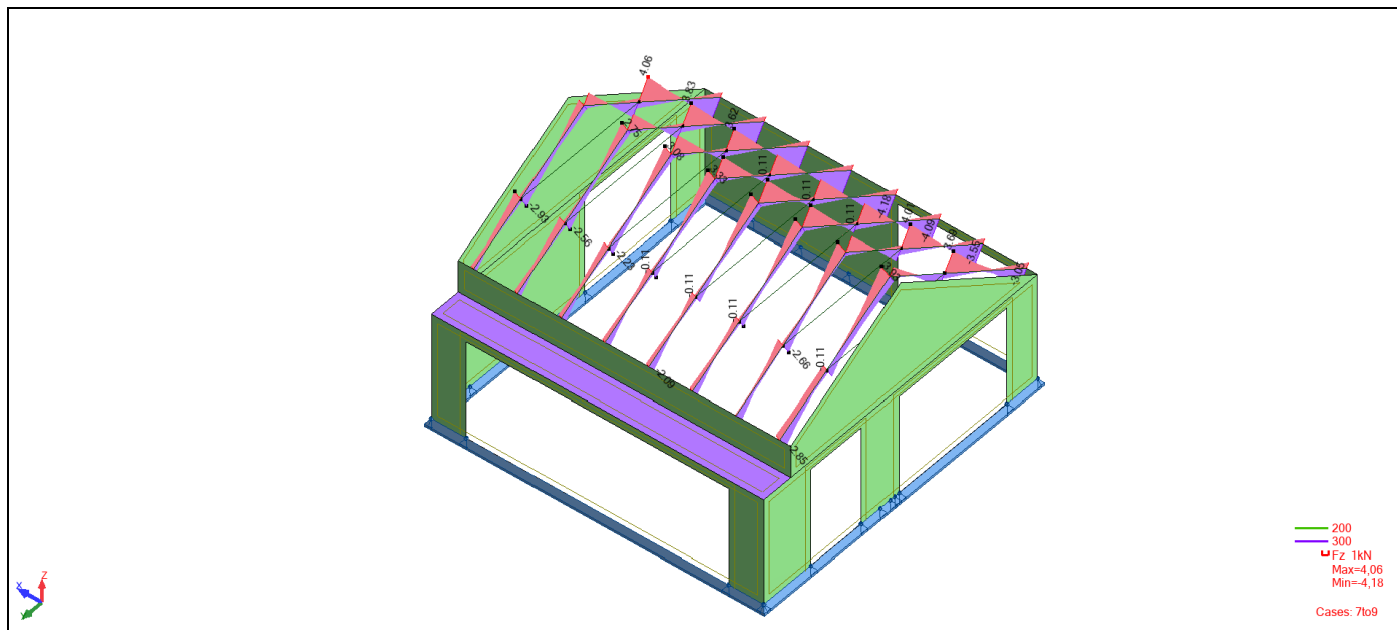
## Combinations

Combinations	Name	Analysis type	Combination type	Case nature	Definition
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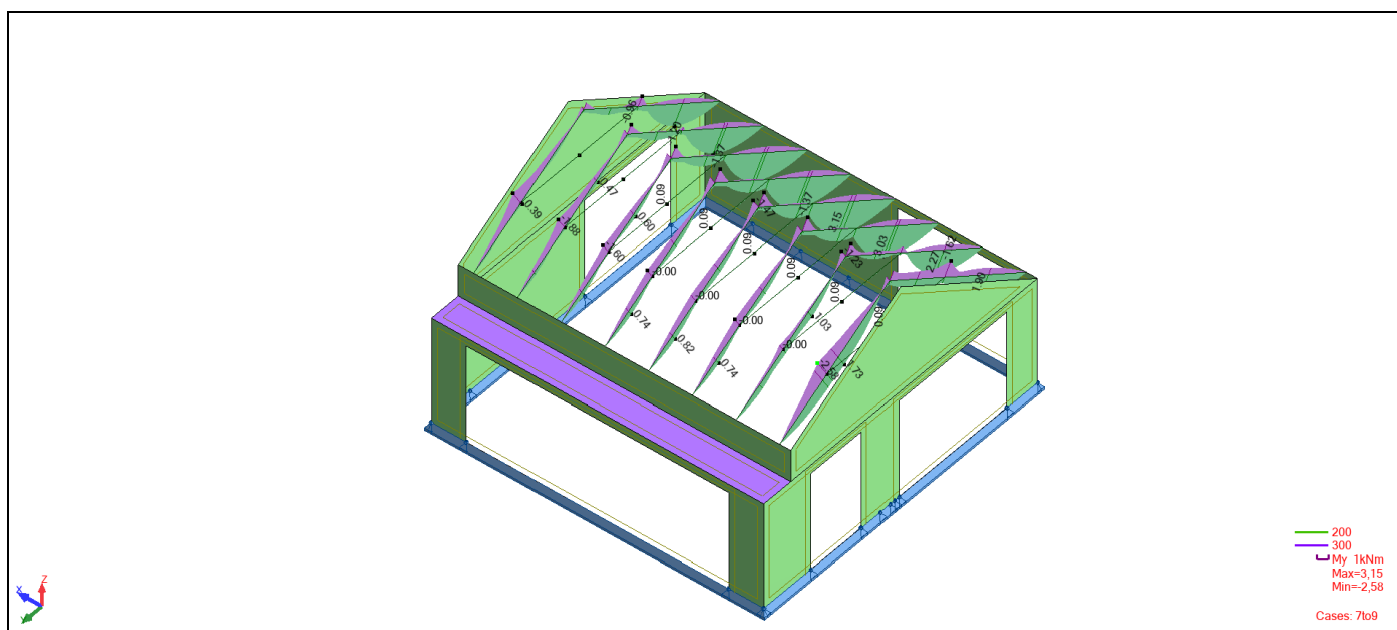
## View - FX; 2



## View - FZ; 2



## View - MY; 1



## Member Forces ULS: envelope

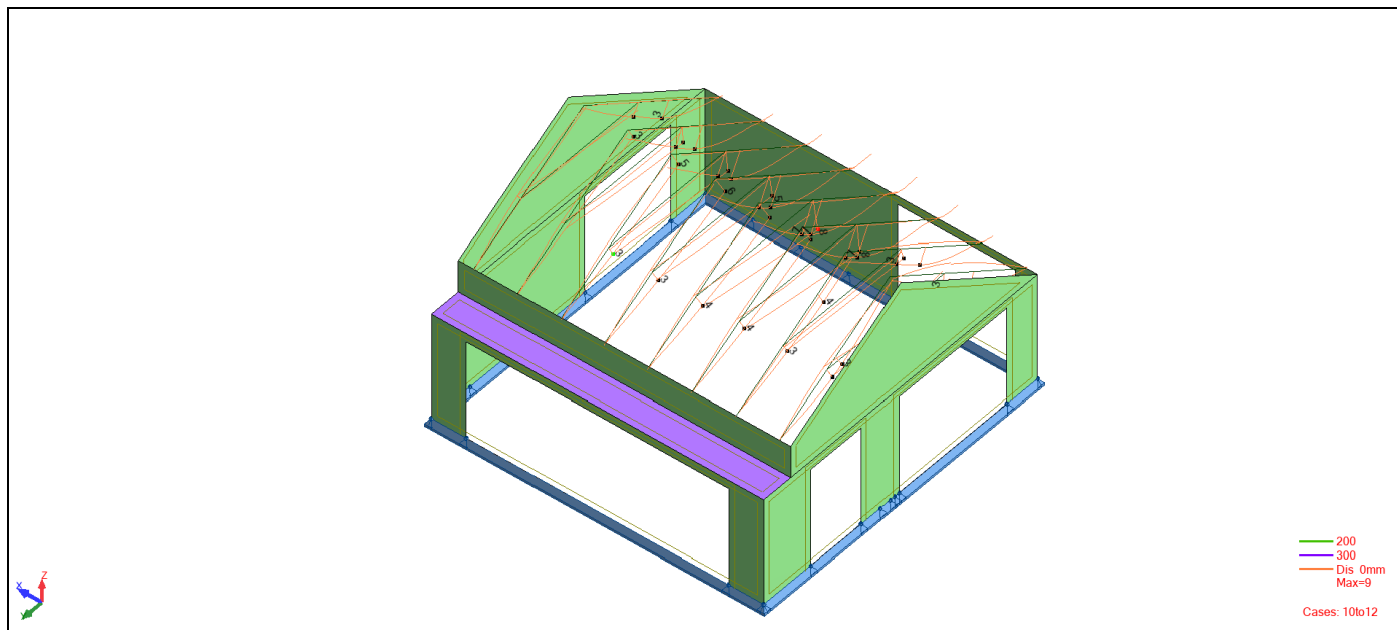
Bar	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
<b>1 / MAX</b>	N/A	N/A	N/A	N/A	N/A	N/A
Node	0	0	0	0	0	0
Case	1	1	1	1	1	1
<b>1 / MIN</b>	N/A	N/A	N/A	N/A	N/A	N/A
Node	0	0	0	0	0	0
Case	1	1	1	1	1	1
<b>201 / MAX</b>	20,45	0,00	3,91	0,00	0,38	0,00
Node	3422	3422	3421	3421	3421	3421
Case	ULS/30	ULS/12	ULS/6	ULS/62	ULS/3	ULS/8
<b>201 / MIN</b>	-3,44	-0,00	-2,84	-0,00	-0,96	-0,00
Node	3422	3421	3422	3421	3421	3422
Case	ULS/19	ULS/9	ULS/4	ULS/18	ULS/6	ULS/12
<b>202 / MAX</b>	19,72	0,00	2,01	0,00	0,38	0,00
Node	3423	3423	3421	3421	3421	3423
Case	ULS/30	ULS/18	ULS/21	ULS/51	ULS/3	ULS/6
<b>202 / MIN</b>	-3,30	-0,00	-3,05	-0,00	-0,96	-0,00
Node	3423	3423	3423	3421	3421	3421
Case	ULS/19	ULS/6	ULS/21	4	ULS/6	ULS/18
<b>217 / MAX</b>	21,58	0,00	3,81	0,00	0,20	0,00
Node	3446	3446	3445	3445	3445	3446
Case	ULS/30	ULS/39	ULS/6	4	ULS/19	ULS/37
<b>217 / MIN</b>	-3,36	-0,00	-2,38	-0,00	-1,21	-0,00
Node	3446	3445	3446	3445	3445	3446
Case	ULS/19	ULS/23	ULS/6	ULS/51	ULS/6	ULS/39
<b>218 / MAX</b>	22,80	0,00	2,80	0,00	0,20	0,00
Node	3447	3447	3445	3445	3445	3447
Case	ULS/30	5	ULS/30	ULS/9	ULS/19	ULS/6
<b>218 / MIN</b>	-3,21	-0,00	-3,54	-0,00	-1,21	-0,00
Node	3447	3447	3447	3445	3445	3447
Case	ULS/19	ULS/6	ULS/30	6	ULS/6	ULS/19
<b>219 / MAX</b>	18,58	0,00	3,31	0,00	0,33	0,00
Node	3449	3449	3448	3448	3448	3448
Case	ULS/30	ULS/30	ULS/6	5	ULS/3	ULS/6
<b>219 / MIN</b>	-3,28	-0,00	-1,97	-0,00	-1,36	-0,00
Node	3449	3448	3449	3448	3448	3449
Case	ULS/19	5	ULS/6	ULS/30	ULS/6	ULS/30
<b>220 / MAX</b>	20,05	0,00	3,62	0,00	0,33	0,00
Node	3450	3448	3448	3448	3448	3450
Case	ULS/6	4	ULS/30	5	ULS/3	ULS/44
<b>220 / MIN</b>	-3,12	-0,00	-4,09	-0,00	-1,36	-0,00
Node	3450	3450	3450	3448	3448	3448
Case	ULS/19	ULS/25	ULS/30	ULS/30	ULS/6	ULS/43
<b>221 / MAX</b>	18,44	0,00	3,45	0,0	0,34	0,00
Node	3452	3452	3451	3452	3451	3452
Case	ULS/30	ULS/6	ULS/6	1	ULS/3	ULS/51
<b>221 / MIN</b>	-3,25	-0,00	-2,09	-0,00	-1,46	-0,00
Node	3452	3452	3452	3451	3451	3452
Case	ULS/19	ULS/18	ULS/6	ULS/9	ULS/6	ULS/49
<b>222 / MAX</b>	19,88	0,00	3,79	0,00	0,34	0,00
Node	3453	3451	3451	3451	3451	3453
Case	ULS/6	ULS/64	ULS/30	ULS/50	ULS/3	ULS/54
<b>222 / MIN</b>	-3,09	-0,00	-4,17	-0,00	-1,46	-0,00
Node	3453	3453	3453	3451	3451	3453



Bar	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
<b>Case</b>	ULS/19	ULS/12	ULS/30	4	ULS/6	ULS/56
<b>223 / MAX</b>	18,59	0,00	3,32	0,00	0,34	0,00
<b>Node</b>	3455	3455	3454	3454	3454	3455
<b>Case</b>	ULS/30	5	ULS/6	ULS/6	ULS/3	ULS/6
<b>223 / MIN</b>	-3,26	-0,00	-1,97	-0,00	-1,36	-0,00
<b>Node</b>	3455	3455	3455	3454	3454	3454
<b>Case</b>	ULS/19	ULS/6	ULS/6	5	ULS/6	ULS/9
<b>224 / MAX</b>	20,05	0,00	3,61	0,00	0,34	0,00
<b>Node</b>	3456	3456	3454	3454	3454	3456
<b>Case</b>	ULS/6	ULS/16	ULS/30	5	ULS/3	ULS/49
<b>224 / MIN</b>	-3,10	-0,00	-4,09	-0,00	-1,36	-0,00
<b>Node</b>	3456	3456	3456	3454	3454	3456
<b>Case</b>	ULS/19	ULS/49	ULS/30	ULS/6	ULS/6	ULS/16
<b>225 / MAX</b>	18,87	0,00	3,07	0,00	0,33	0,00
<b>Node</b>	3458	3458	3457	3457	3457	3458
<b>Case</b>	ULS/30	5	ULS/6	ULS/6	ULS/3	ULS/56
<b>225 / MIN</b>	-3,29	-0,00	-1,76	-0,00	-1,18	-0,00
<b>Node</b>	3458	3458	3458	3457	3457	3457
<b>Case</b>	ULS/19	ULS/4	ULS/6	5	ULS/6	ULS/6
<b>226 / MAX</b>	20,37	0,00	3,28	0,00	0,33	0,00
<b>Node</b>	3459	3459	3457	3457	3457	3459
<b>Case</b>	ULS/6	ULS/6	ULS/30	5	ULS/3	ULS/19
<b>226 / MIN</b>	-3,14	-0,00	-3,93	-0,00	-1,18	-0,00
<b>Node</b>	3459	3459	3459	3457	3457	3459
<b>Case</b>	ULS/19	ULS/18	ULS/30	ULS/6	ULS/6	ULS/25
<b>227 / MAX</b>	19,24	0,00	2,73	0,00	0,31	0,00
<b>Node</b>	3461	3460	3460	3460	3460	3461
<b>Case</b>	ULS/30	ULS/23	ULS/6	ULS/9	ULS/3	ULS/12
<b>227 / MIN</b>	-3,34	-0,00	-1,48	-0,00	-0,94	-0,00
<b>Node</b>	3461	3461	3461	3460	3460	3460
<b>Case</b>	ULS/19	ULS/21	ULS/6	6	ULS/6	ULS/16
<b>228 / MAX</b>	20,80	0,00	2,84	0,00	0,31	0,00
<b>Node</b>	3462	3462	3460	3460	3460	3462
<b>Case</b>	ULS/6	ULS/1	ULS/30	5	ULS/3	ULS/65
<b>228 / MIN</b>	-3,20	-0,00	-3,72	-0,00	-0,94	-0,00
<b>Node</b>	3462	3462	3462	3460	3460	3462
<b>Case</b>	ULS/19	ULS/65	ULS/30	ULS/4	ULS/6	ULS/31
<b>229 / MAX</b>	19,65	0,00	2,36	0,00	0,29	0,00
<b>Node</b>	3464	3463	3463	3463	3463	3464
<b>Case</b>	ULS/30	ULS/61	ULS/6	ULS/6	ULS/3	ULS/66
<b>229 / MIN</b>	-3,41	-0,00	-1,33	-0,00	-0,67	-0,00
<b>Node</b>	3464	3464	3463	3463	3463	3464
<b>Case</b>	ULS/19	ULS/21	ULS/3	5	ULS/6	ULS/55
<b>230 / MAX</b>	21,28	0,00	2,35	0,00	0,29	0,00
<b>Node</b>	3465	3465	3463	3463	3463	3463
<b>Case</b>	ULS/6	ULS/6	ULS/30	ULS/19	ULS/3	ULS/43
<b>230 / MIN</b>	-3,27	-0,00	-3,49	-0,00	-0,67	-0,00
<b>Node</b>	3465	3465	3465	3463	3463	3465
<b>Case</b>	ULS/19	6	ULS/30	ULS/6	ULS/6	ULS/6
<b>233 / MAX</b>	8,02	0,00	0,14	0,0	0,00	0,00
<b>Node</b>	3467	3467	3467	3467	3468	3468
<b>Case</b>	ULS/31	ULS/19	ULS/32	1	ULS/32	ULS/31
<b>233 / MIN</b>	-2,88	-0,00	-0,14	0,0	-0,00	-0,00
<b>Node</b>	3467	3467	3468	3467	3468	3468
<b>Case</b>	ULS/19	ULS/31	ULS/31	1	ULS/26	ULS/19
<b>234 / MAX</b>	7,67	0,00	0,14	0,0	0,00	0,00

Bar	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
Node	3469	3469	3469	3469	3470	3470
Case	ULS/40	ULS/59	ULS/40	1	ULS/40	ULS/16
234 / MIN	-1,98	-0,00	-0,14	0,0	0,0	-0,00
Node	3469	3469	3470	3469	3469	3470
Case	5	ULS/16	ULS/16	1	1	ULS/59
235 / MAX	7,65	0,00	0,14	0,0	0,00	0,00
Node	3471	3471	3471	3471	3472	3472
Case	ULS/62	ULS/62	ULS/13	1	ULS/40	ULS/13
235 / MIN	-2,51	-0,00	-0,14	0,0	-0,00	-0,00
Node	3471	3471	3472	3471	3472	3472
Case	ULS/19	ULS/13	ULS/13	1	ULS/19	ULS/62
236 / MAX	7,72	0,00	0,14	0,0	0,00	0,0
Node	3473	3473	3473	3473	3474	3473
Case	ULS/40	ULS/42	ULS/40	1	ULS/40	1
236 / MIN	-2,55	-0,00	-0,14	0,0	-0,00	-0,00
Node	3473	3473	3474	3473	3474	3474
Case	ULS/19	4	ULS/42	1	ULS/19	ULS/42
237 / MAX	8,35	0,0	0,14	0,0	0,00	0,00
Node	3475	3475	3475	3475	3476	3476
Case	ULS/40	1	ULS/40	1	ULS/40	ULS/60
237 / MIN	-2,66	-0,00	-0,14	0,0	-0,00	0,0
Node	3475	3475	3476	3475	3476	3475
Case	ULS/19	ULS/60	ULS/60	1	ULS/19	1
238 / MAX	9,18	0,00	0,14	0,0	0,00	0,00
Node	3477	3477	3477	3477	3478	3478
Case	ULS/40	ULS/3	ULS/40	1	ULS/40	ULS/1
238 / MIN	-2,82	-0,00	-0,14	0,0	-0,00	-0,00
Node	3477	3477	3478	3477	3478	3478
Case	ULS/19	ULS/1	ULS/1	1	ULS/19	ULS/3
239 / MAX	9,11	0,00	0,14	0,0	0,00	0,00
Node	3479	3479	3479	3479	3480	3480
Case	ULS/10	4	ULS/8	1	ULS/8	ULS/1
239 / MIN	-2,30	-0,00	-0,14	0,0	-0,00	-0,00
Node	3479	3479	3480	3479	3480	3480
Case	5	ULS/1	ULS/1	1	ULS/24	ULS/10
240 / MAX	9,78	0,00	0,14	0,0	0,00	0,00
Node	3481	3481	3481	3481	3482	3482
Case	ULS/6	6	ULS/13	1	ULS/3	ULS/6
240 / MIN	-2,35	-0,00	-0,14	0,0	-0,00	0,0
Node	3481	3481	3482	3481	3482	3481
Case	5	ULS/6	ULS/6	1	ULS/48	1
241 / MAX	N/A	N/A	N/A	N/A	N/A	N/A
Node	0	0	0	0	0	0
Case	1	1	1	1	1	1
241 / MIN	N/A	N/A	N/A	N/A	N/A	N/A
Node	0	0	0	0	0	0
Case	1	1	1	1	1	1

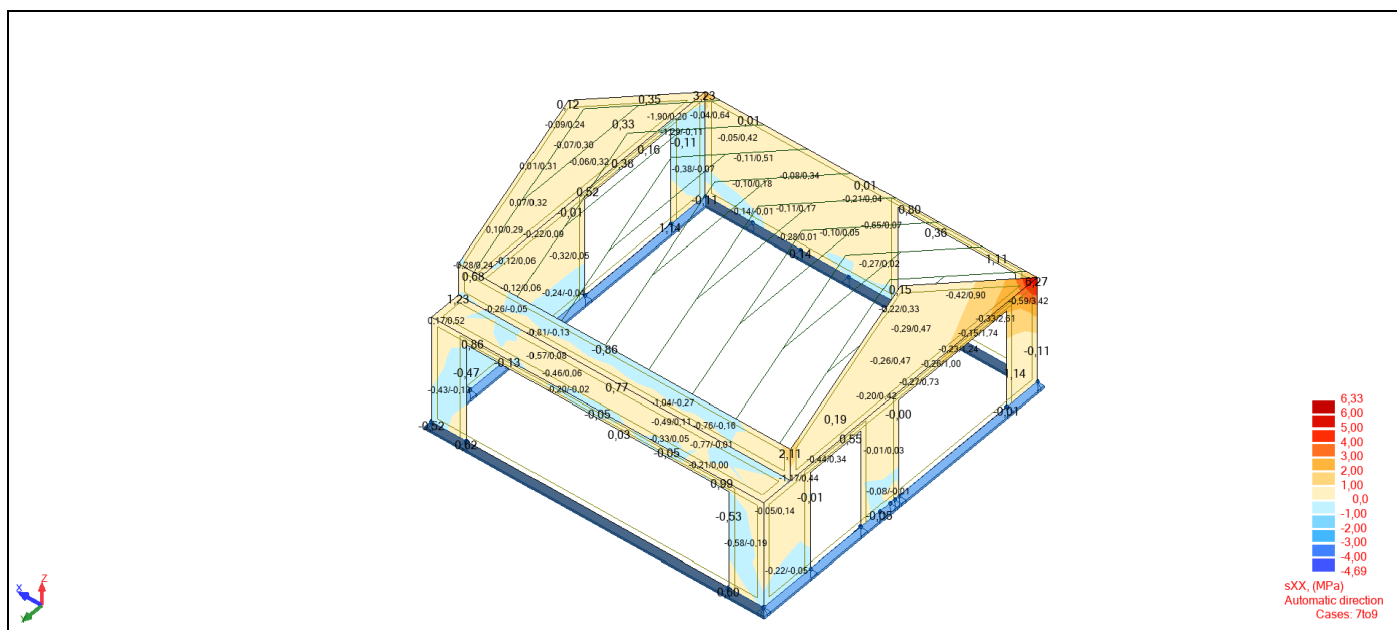
## View - Exact deformation(s);



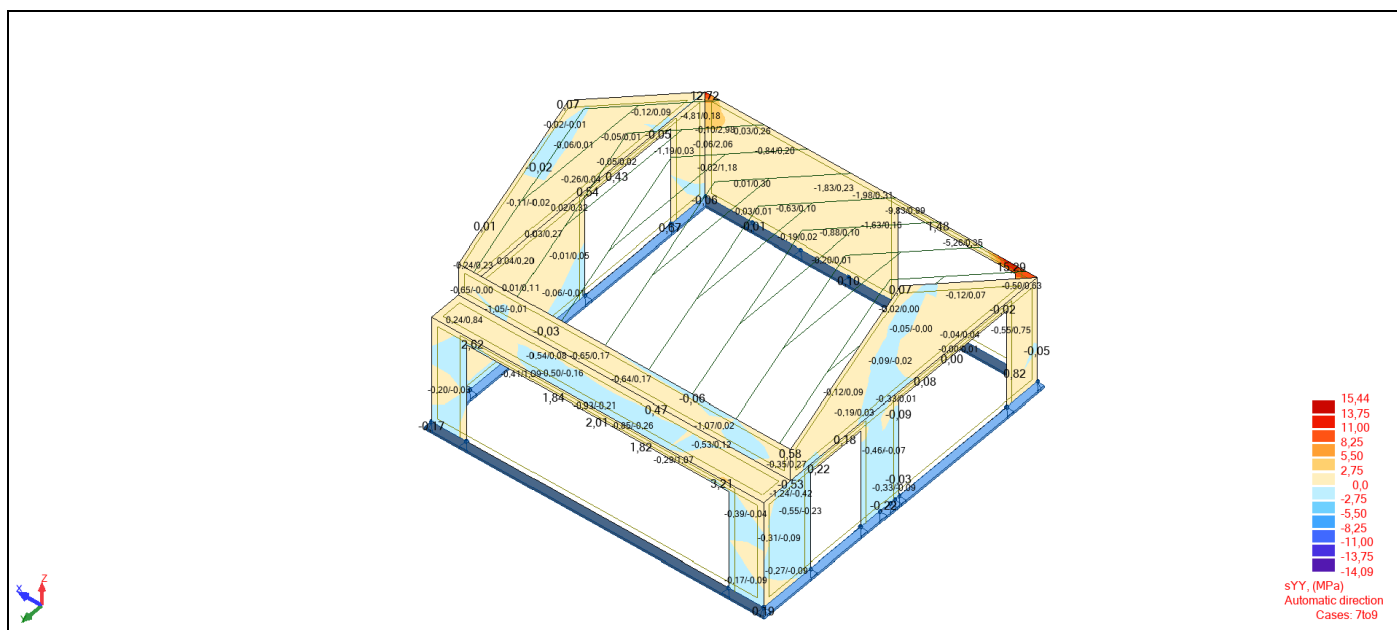
## Displacements SLS: global extremes

	UX (mm)	UY (mm)	UZ (mm)	RX (Rad)	RY (Rad)	RZ (Rad)
<b>MAX</b>	1	2	3	0,003	0,000	0,002
<b>Node</b>	3413	3481	3482	232	210	3462
<b>Case</b>	SLS/7	6	6	SLS/3	SLS/15	SLS/3
<b>MIN</b>	-1	-6	-8	-0,002	-0,001	-0,003
<b>Node</b>	3448	217	3471	3421	3469	209
<b>Case</b>	SLS/15	SLS/3	SLS/15	SLS/5	SLS/15	SLS/3

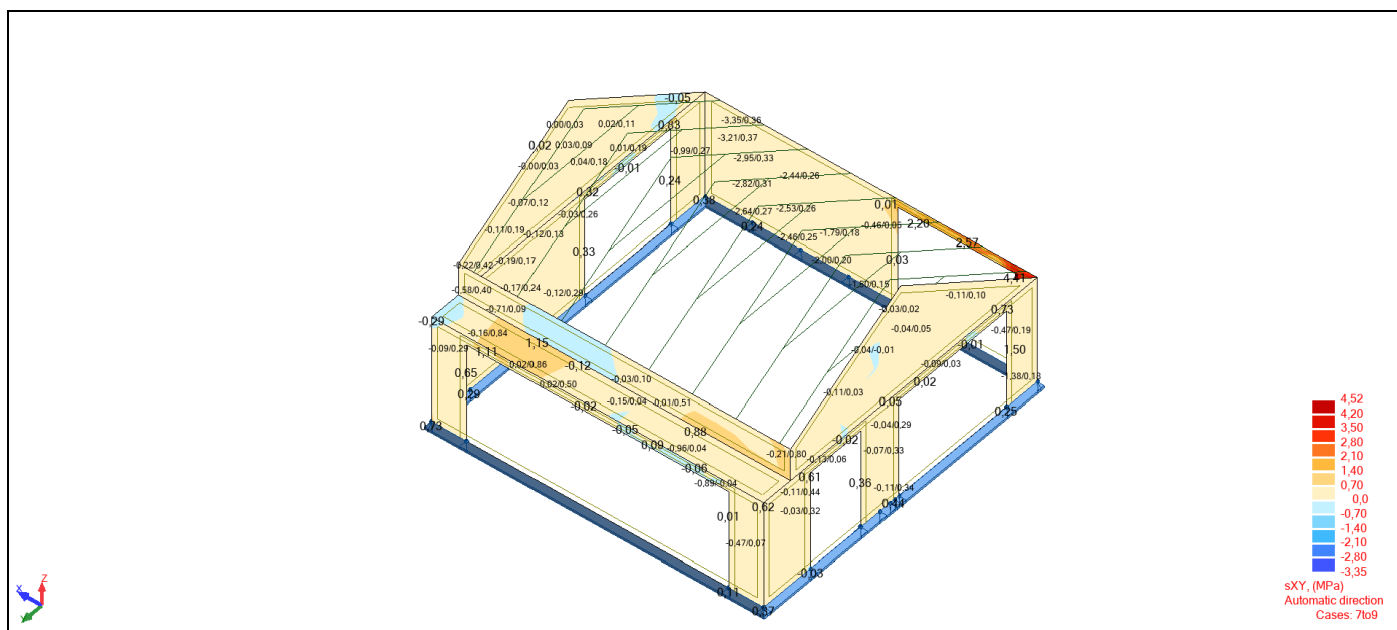
## View - sXX (MPa) Layer Upper Automatic direction Cases: 7to9 (+) 1



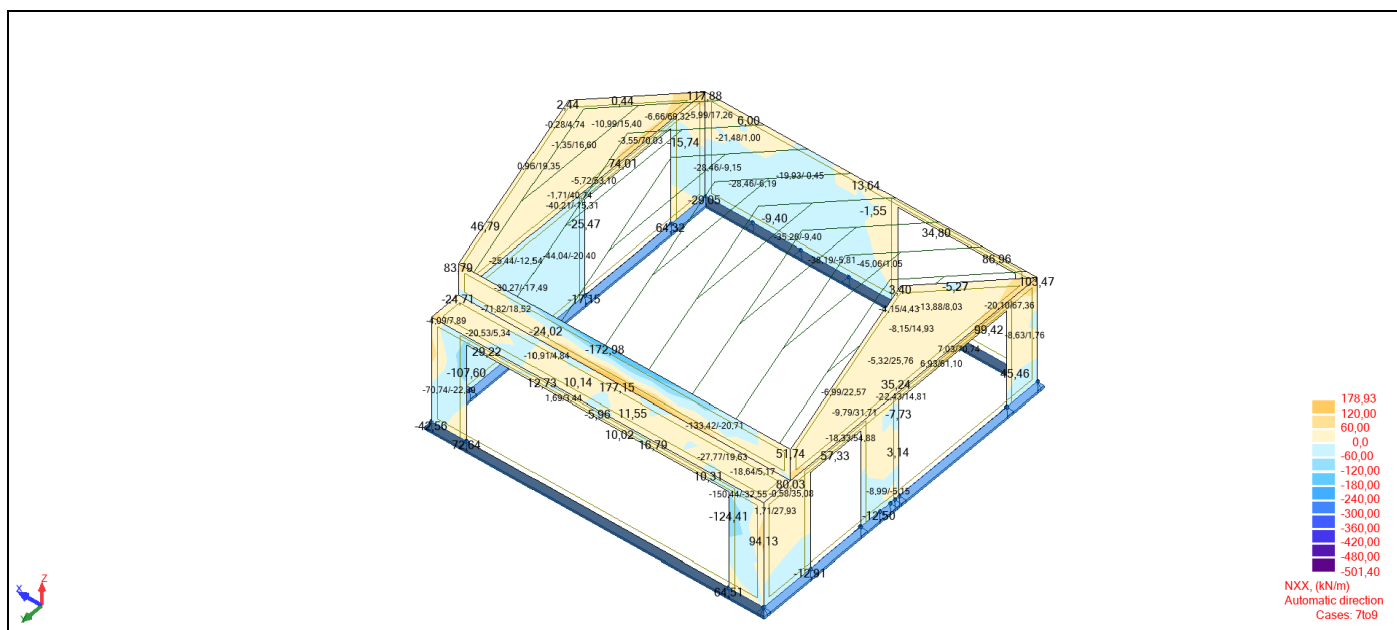
## View - sYY (MPa) Layer Upper Automatic direction Cases: 7to9 (+) 1



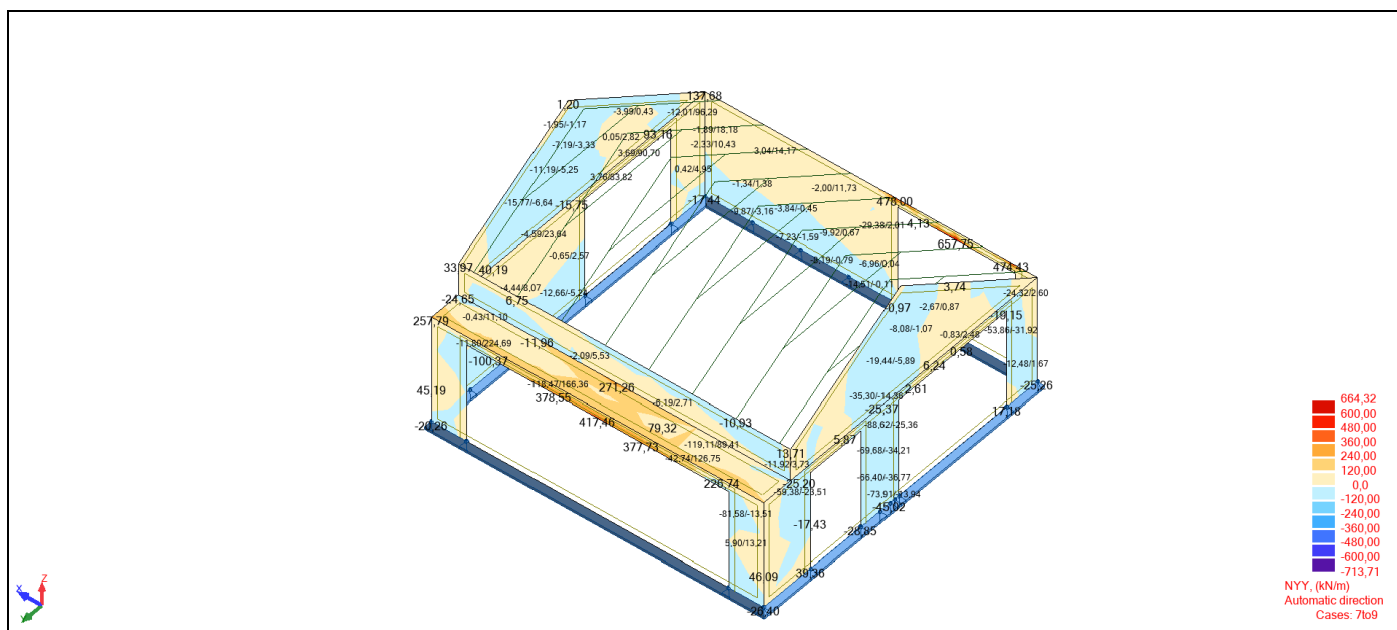
## View - sXY (MPa) Layer Upper Automatic direction Cases: 7to9 (+) 1



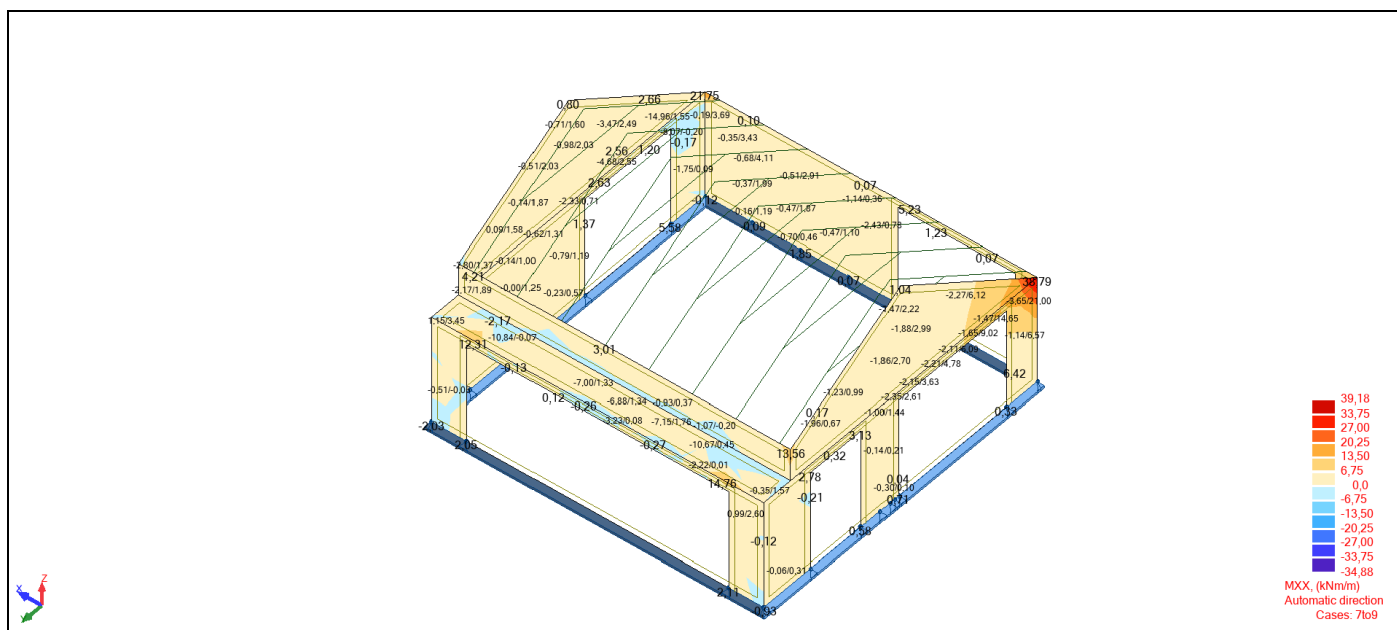
## View - NXX (kN/m) Automatic direction Cases: 7to9 (+) 1



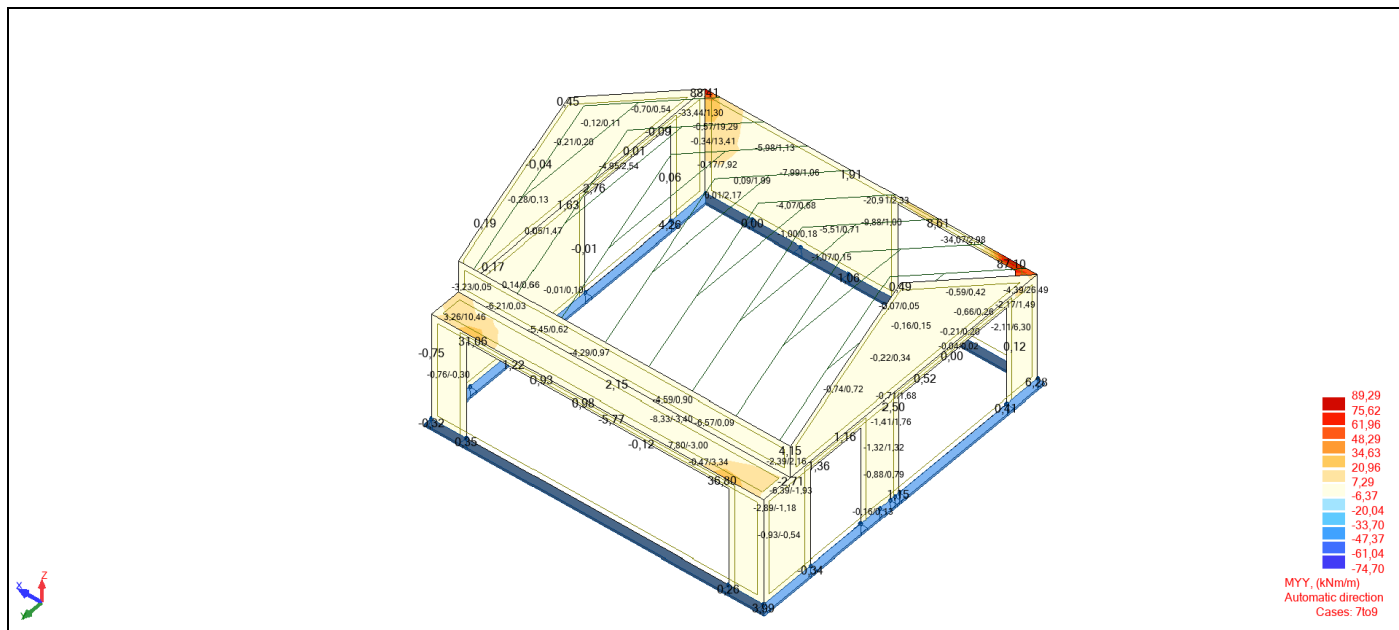
## View - NYY (kN/m) Automatic direction Cases: 7to9 (+) 1



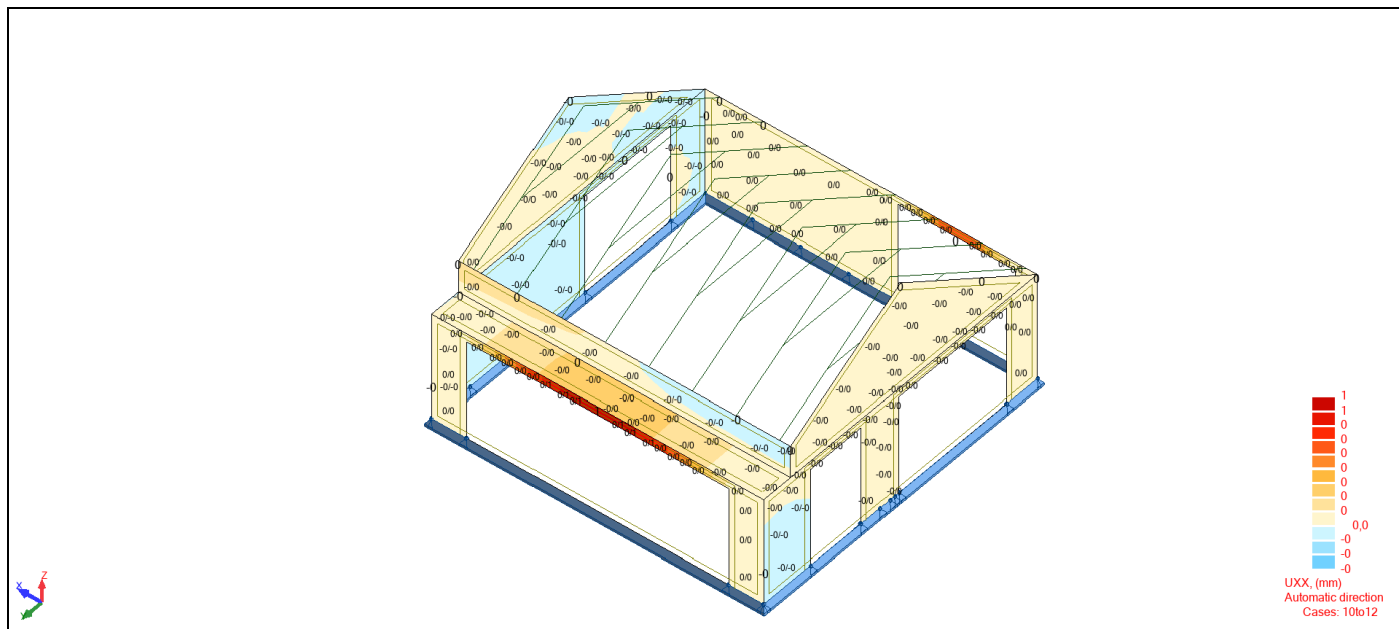
## View - MXX (kNm/m) Automatic direction Cases: 7to9 (+) 1



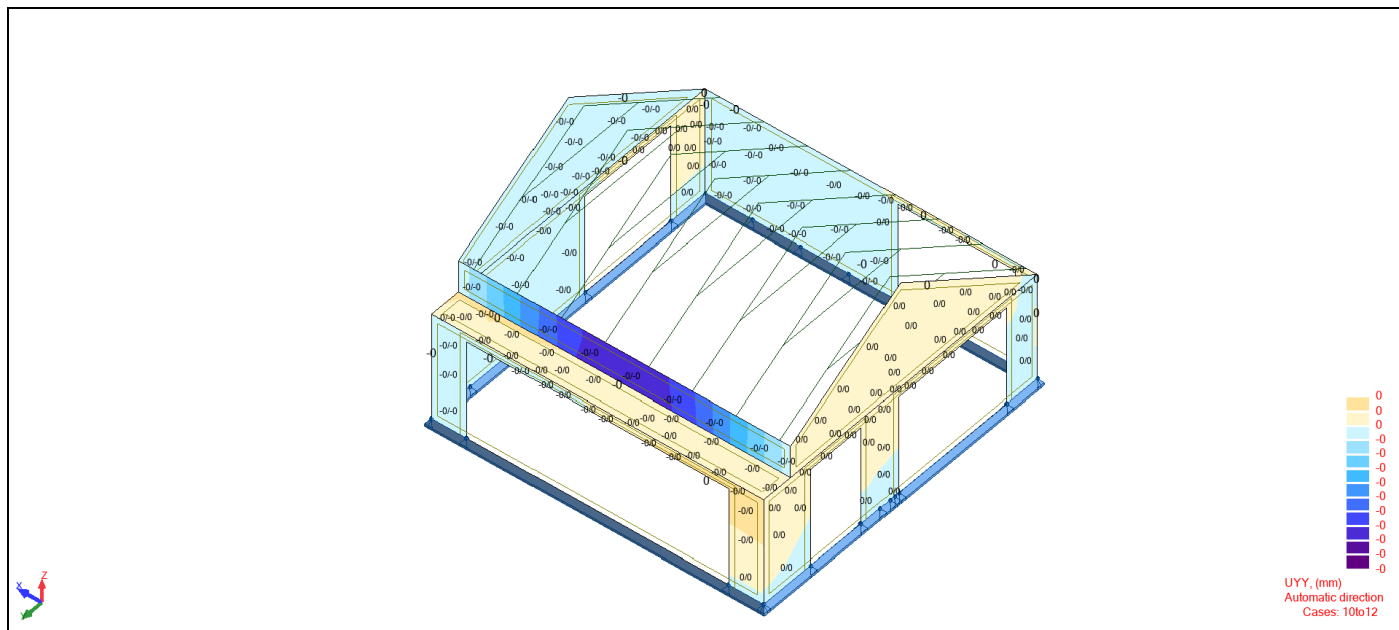
## View - MYY (kNm/m) Automatic direction Cases: 7to9 (+) 1



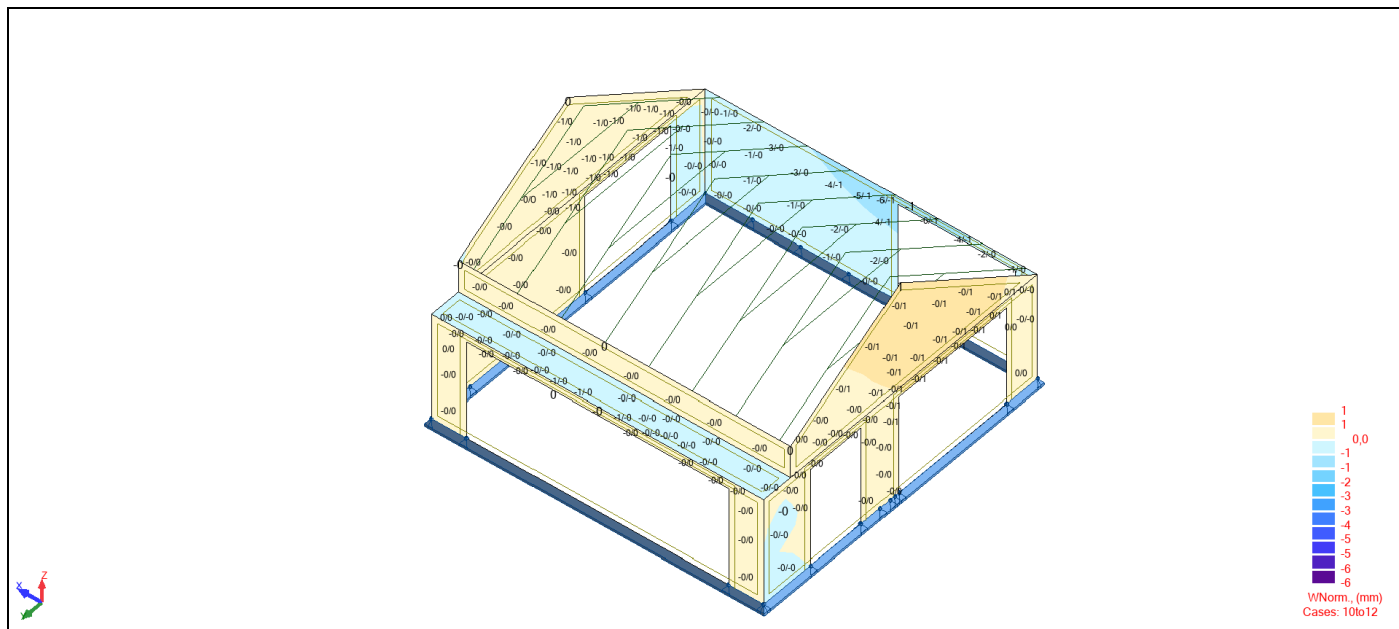
## View - UXX (mm) Automatic direction Cases: 10to12 (+) 1



## View - UYY (mm) Automatic direction Cases: 10to12 (+) 1

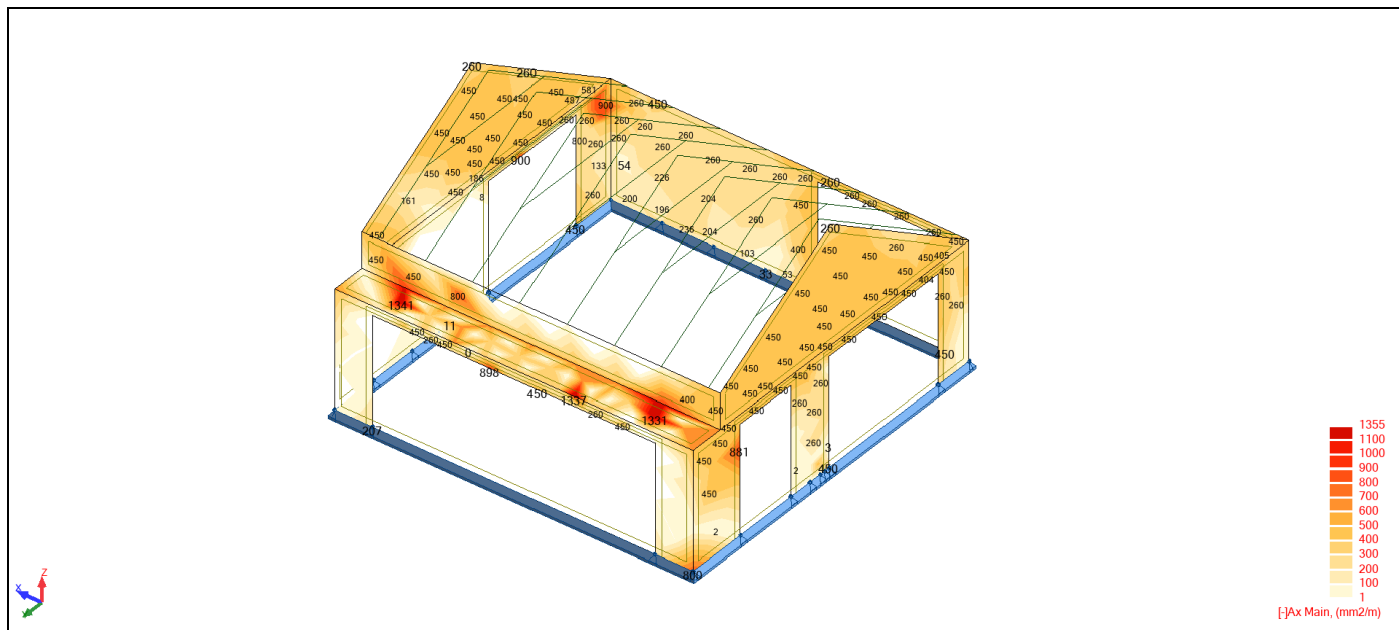


## View - WNorm. (mm) Cases: 10to12 (+) 1

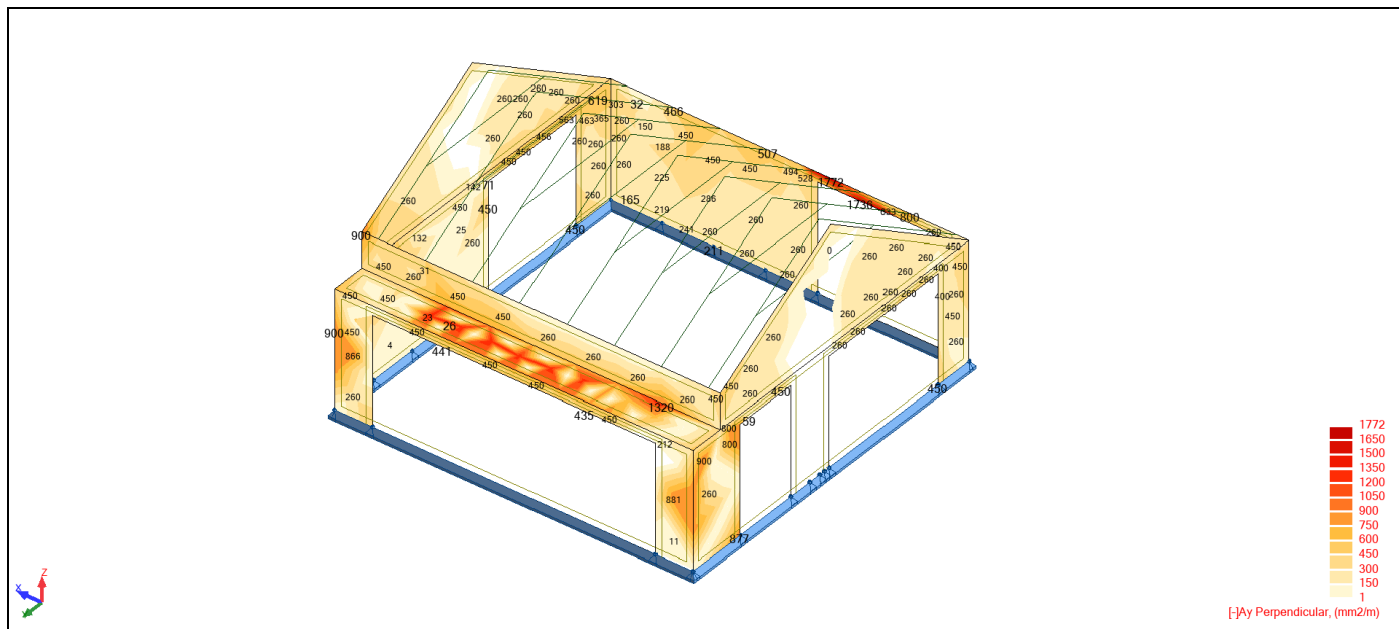




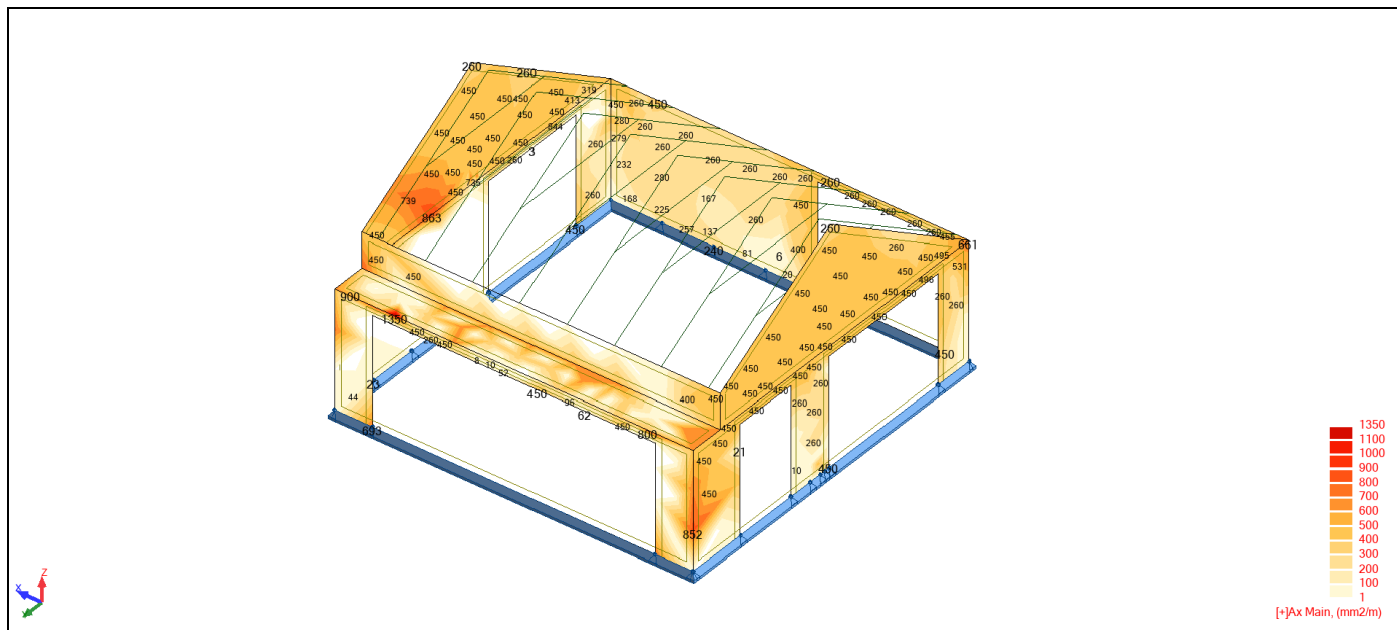
## View - [-]Ax Main (mm<sup>2</sup>/m) 1



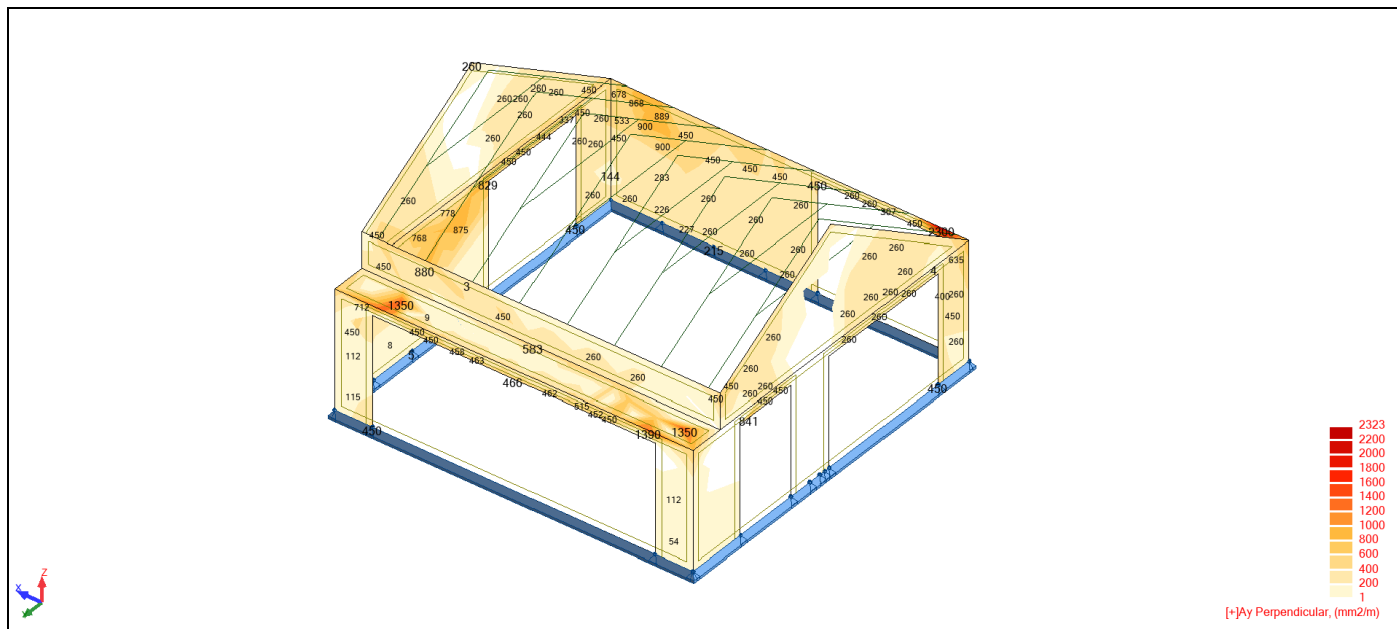
## View - [-]Ay Perpendicular (mm<sup>2</sup>/m) 1



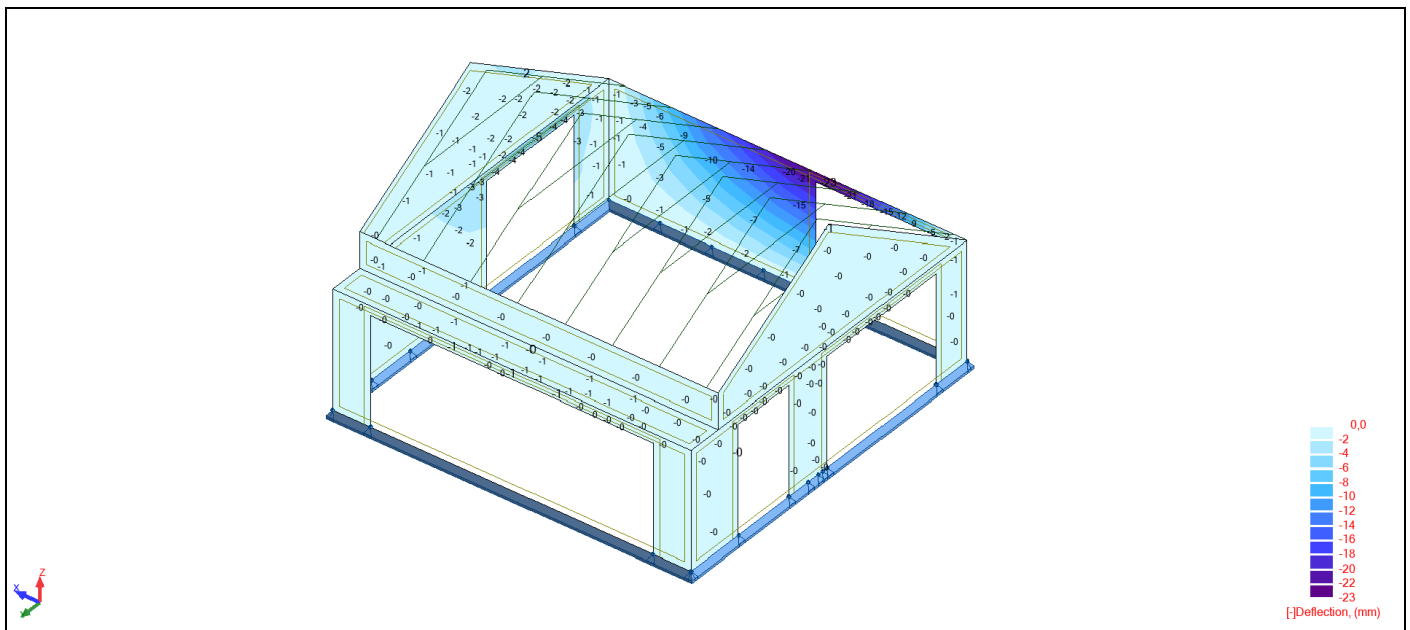
## View - [+]Ax Main (mm2/m) 1



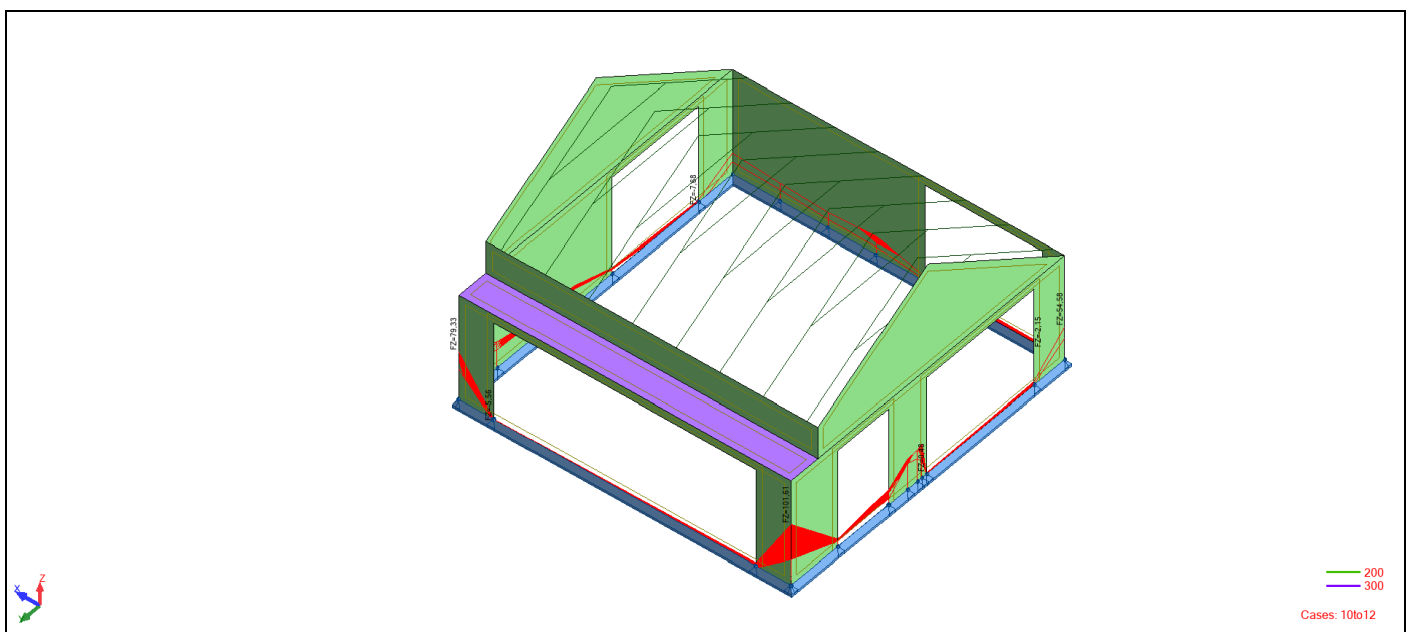
## View - [+]Ay Perpendicular (mm2/m) 1



## View - [-]Deflection (mm) 1



## View - Reaction forces(kN,kN/m);



## Reactions ULS: global extremes

	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)	MY (kNm)	MZ (kNm)
<b>MAX</b>	46,37	32,00	150,30	0,00	0,00	0,00
<b>Node</b>	115	116	115	116	245	232
<b>Case</b>	ULS/30	ULS/6	ULS/30	ULS/30	ULS/6	ULS/38
<b>MIN</b>	-39,84	-40,77	-30,46	-0,00	-0,00	-0,00
<b>Node</b>	190	115	189	115	189	242
<b>Case</b>	ULS/6	ULS/30	ULS/57	ULS/6	ULS/12	ULS/6