

ELAMU JA GARAAZI TÖÖPROJEKT

Harju maakond, Rae vald, Lagedi alevik



Projekti staadium

TP-Tööprojekt

Tellijä

Projekteerija

Diplomeeritud ehitusinsener , tase 7

REGISTRIKOOD:

Juuni 2022



1 Üldine informatsioon

1.1 Objekti andmed

Tüüp: Puitelement hoone
Nimi:
Kood:
Aadress: Harju maakond, Rae vald, Lagedi alevik,
Klient:

1.2 Projekteerija, tootja

Projekteerija:

2 Konstruktsioon

2.1 Normdokumendid

- EVS-EN 1990:2002 Eurokoodeks – Ehituskonstruktsioonide projekteerimise alused
- EVS-EN 1991-1-1:2002 Eurokoodeks 1: Ehituskonstruktsioonide koormused - Osa 1-1: Üldkoormused – Mahukaalud, omakaalud, hoonete kasuskoormused
- EVS-EN 1991-1-3:2006 Eurokoodeks 1: Ehituskonstruktsioonide koormused - Osa 1-3: Üldkoormused - Lumekoormus
- EVS-EN 1991-1-4:2005 Eurokoodeks 1: Ehituskonstruktsioonide koormused - Osa 1-4: Üldkoormused - Tuulekoormus
- EVS-EN 1995-1-1:2005 Eurokoodeks 5: Puitkonstruktsioonide projekteerimine - Osa 1-1: Üldist- Üldreeglid ja reeglid hoonete projekteerimiseks
- Muud asjakohased standardid ja hea ehitustava



Sisukord:

1. Spetsifikatsioonid

- Materjali spetsifikatsioonid
- Elementide spetsifikatsioonid
- Plekkide spets 1-2
- Kaldu profiilid
- A-U muudetud spets

2. Arhitektuursed joonised

- Plaanid
- Fassaadi vaated

3. Standardised sõlmilahendused

- Sõlmede joonised
- Lõiked

4. Tehnilised joonised

- Vundamendi plaan 1-2
- Raami paigaldus 1-4
- Aluspuu plaan 1-2
- Elementide asetus plaanil, 1 korrus
- 3D-plaanid
- Sein IW111
- Sauna konsool 1-4
- Vahelaetala
- Vahelae elemendid
- Elementide asetus plaanil, 2 korrus
- 3D-plaanid
- Tala pärlini all
- Pärlinite plaan, 3D
- Katuseelemendid, 3D
- Konsooli katus
- Garaazi aluspuu plaan
- Garaazi seinte plaan
- Garaazi katus
- Parapet
- A-U uuendatud spets
- Terrass
- Fassaadi jaotis 1-2

5. Lisajoonised

- Välisseina elementide joonised – EW
- Siseseinte elementide joonised - IW
- Vahelae elementide joonised – CE
- Katuse elementide joonised – RE



Spetsifikatsioonid

hide

TAB katagooria	Karkass/S heeting	Tüüp	Pos	Kululiik	Kululiigi nimetus	Materjali markeering	Mõõdud			Kogus			γ	Kokku	Pakkimine	CNC	Tellija	Värvimine/ viimistlus	Kommentaar
							B [mm]	H [mm]	L [mm]	m	m²	pc	%						
Column1	Column1s						Column3	Column6		Column10	Column11	Column12							
EW	Karkass	EW			Karkass/roovid/latid	S2S 45x45	45	45		62			10%	68		Element		#N/A	
		EW			Karkass/roovid/latid	S2S 45x45	45	45		50			10%	55		Kaasa		#N/A	Raami vaheline seinaos
EW	Karkass	EW	SP-1		Karkass	SHP 45x120 C24	45	120		28			10%	31		Element		#N/A	Kaldulatt SP-1, vt joonist
EW	Karkass	EW	SP-1		Karkass	SHP 45x120 C24	45	120		7			10%	8		Kaasa		#N/A	Kaldulatt SP-1, vt joonist
EW	Karkass	EW	SP-2		Karkass	SHP 45x80 C24	45	80		8			10%	9		Element		#N/A	Kaldulatt SP-2, vt joonist
EW	Karkass	EW			Karkass	SHP 45x95 C24	45	95		6			10%	7		Element	x	#N/A	
		EW			Karkass	SHP 45x95 C24	45	95		30			110%	63		Kaasa		#N/A	
EW	Karkass	EW			Karkass	SHP 45x120 C24	45	120		10			10%	11		Element	x	#N/A	
EW	Karkass	EW	50			Terastala HEB 120	120	120	3208			1		1		Element		#N/A	Vaata tööjoonist
EW	Karkass	EW			Karkass	SHP 45x145 C24	45	145		25			10%	28		Element	x	#N/A	
EW	Karkass	EW			Karkass	SHP 45x195 C24	45	195		26			10%	29		Element	x	#N/A	
EW	Karkass	EW			Karkass	SHP 45x245 C24	45	245		819			10%	901		Element	x	#N/A	
		EW			Karkass	SHP 45x245 C24	45	245		65			10%	72		Kaasa		#N/A	Raami vaheline seinaos
EW	Karkass	EW			Karkass	SHP 45x145 C24	45	145		327			10%	360		Element	x	#N/A	Garaaz
EW	Sheeting	EW			Karkass/roovid/latid	S2S 28x70	28	70		620			5%	651		Kaasa		#N/A	Maja kiviroom
EW	Sheeting	EW			Karkass/roovid/latid	S2S 28x70	28	70		230			10%	253		Kaasa		#N/A	Garaazi kiviroom
EW	Sheeting	EW			Karkass/roovid/latid	S2S 28x70	28	70		439			5%	461		Element		#N/A	Tuulutuslatt maja
EW	Sheeting	EW			Karkass/roovid/latid	S2S 28x70	28	70		86			10%	95		Kaasa		#N/A	Tuulutuslatt maja
EW	Sheeting	EW			Karkass/roovid/latid	S2S 28x70	28	70		140			5%	147		Element		#N/A	Garaazi tuulutuslatt
EW	Sheeting	EW			Karkass	SHP 45x125 C24	45	125	3402			1		1		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x135 C24	45	135	2483			1		1		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x145 C24	45	145		5			10%	6		Kaasa		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x195 C24	45	195		15			10%	17		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass/roovid/latid	S2S 45x45	45	45		350			10%	385		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x70 C24	45	70		3			10%	3		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x80 C24	45	80		2			10%	2		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass	SHP 45x95 C24	45	95		90			10%	99		Element		#N/A	Lisasooj.roov
EW	Sheeting	EW			Karkass/roovid/latid	S2S 45x45	45	45		4			10%	4		Element		#N/A	Garaazi parapet
EW	Sheeting	EW			Karkass/roovid/latid	S2S 45x45 AB	45	45		110			10%	121		Kaasa		#N/A	Zalusii - parem kvaliteediga
EW	Sheeting	EW				IMP SHP 45x235 C24	45	235		40			10%	44		Kaasa		#N/A	Maja
EW	Sheeting	EW				IMP SHP 45x135	45	135		23			10%	25		Kaasa		#N/A	Garaaz
EW	Sheeting	EW				OSB3 12x1196x2800	12				6		10%	7		Element		#N/A	Garaazi parapet
EW	Sheeting	EW				OSB3 12x1196x2800	12				155		10%	171		Kaasa		#N/A	Maja sisevooder + sisesekina
EW	Sheeting	EW				OSB3 12x1196x2800	12				55		10%	61		Kaasa		#N/A	Garaazi sisevooder
EW	Sheeting	EW				Norgips GKB 12.5x1200x2700					140		10%	154		Kaasa		#N/A	Maja
EW	Sheeting	EW				Norgips GU9 9.5x1200x2700					170		10%	187		Element		#N/A	Maja
EW	Sheeting	EW				Norgips GU9 9.5x1200x2700					62		10%	68		Element		#N/A	Garaaz
		EW				Norgips GU9 9.5x1200x2700					10		10%	11		Kaasa		#N/A	
EW	Sheeting	EW				Välisvooder UYSK 21x135/145					50		10%	55		Kaasa		#N/A	Woodex 1804 lasuurvärv
EW		EW				Tyvek Solid					250		15%	288		Element		#N/A	
		EW				Tyvek Solid					20		10%	22		Kaasa		#N/A	
EW		EW				SFS 4225					230		15%	265		Element		#N/A	
EW		EW				SFS 4225					15		15%	17		Kaasa		#N/A	

TAB katagooria	Karkass/S heeting	Tüüp	Pos	Kululiik	Kululiigi nimetus	Materjali markeering	Mõõdud			Kogus			γ	Kokku		Pakkimine	CNC	Tellija	Värvimine/ viimistlus	Kommentaar
							B [mm]	H [mm]	L [mm]	m	m²	pc	%							
EW		EW				Foolium sauna					10		10%	11		Element	#N/A			
EW		EW				Paroc Ultra 45					280		10%	308		Element	#N/A		Maja	
EW		EW				Paroc Ultra 100					280		10%	308		Element	#N/A		Maja	
EW		EW				Paroc Ultra 45					53		10%	58		Element	#N/A		Garaaz	
EW		EW				Paroc Ultra 100					53		10%	58		Element	#N/A		Garaaz	
		EW				Paroc Ultra 100					25		10%	28		Kaasa	#N/A			
EW		EW				Paroc Ultra 45					30		0%	30		Kaasa	#N/A			
EW		EW				Siga Wigluw 60				120			10%	132		Element	#N/A		tuuletõkke teipimiseks	
EW		EW				Siga Wigluw 60				200			10%	220		Kaasa	#N/A		tuuletõkke teipimiseks	
EW		EW				Isover SK-C-20-140				40			10%	44		Element	#N/A		Garaaz	
EW		EW				Isover SK-C-20-200				140			10%	154		Element	#N/A		Maja	
		EW				Isover SK-C-20-200				50			10%	55		Kaasa	#N/A			
EW		EW				Isola Museband				65			10%	72		Element	#N/A			
EW		EW				Isola Museband				5			0%	5		Kaasa	#N/A			
EW		EW			Aknad (PVC, teras, alumiinium)	Aknad											#N/A		vt akende spetsifikatsioon	
EW		EW			Välisüksed	Välisüksed											#N/A		vt uste spetsifikatsioon	
EW		EW			Plekid (akna, ukse, katuseplekid)	Akende / uste plekid											#N/A		vt plekkide spetsifikatsioon	
Kinnitustarvik		EW				Kruvi 6x180	6	180				500	0%	500		Kaasa	#N/A			
Kinnitustarvik		EW				Kruvi 6x150	6	150				800	0%	800		Kaasa	#N/A			
Kinnitustarvik		EW				Kruvi 6x120	6	120				200	0%	200		Kaasa	#N/A			
Kinnitustarvik		EW				Betooniankur 6x100	6	100				300		300		Kaasa	#N/A			
Kinnitustarvik		EW				Sokliühend, Tectis 150				80			10%	88		Kaasa	#N/A			
Kinnitustarvik		EW				Sokliühend, Tectis 100				45			10%	50		Kaasa	#N/A			
																	#N/A			
IW	Karkass	IW			Karkass	SHP 45x95 C24				714			10%	785		Element	x	#N/A		
IW	Karkass	IW			Karkass	SHP 45x120 C24				36			10%	40		Element	x	#N/A		
IW	Karkass	IW			Karkass	SHP 45x145 C24				5			10%	6		Element	x	#N/A		
IW	Karkass	IW			Karkass	SHP 45x195 C24				5			10%	6		Element	x	#N/A		
IW	Karkass	IW	1383			Liimpuit 95x160	95	160	2543		1			1		Element	x	#N/A		
IW	Karkass	IW	1436			Liimpuit 95x140	95	140	2453		1			1		Element	x	#N/A		
IW	Karkass	IW	1460			Liimpuit 95x140	95	140	2453		1			1		Element	x	#N/A		
IW	Karkass	IW	1626			Liimpuit 95x200	95	200	3135		1			1		Element	x	#N/A		
IW	Karkass	IW	1382			Liimpuit 120x200	120	200	2543		1			1</						

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TAB katagooria	Karkass/S heeting	Tüüp	Pos	Kululiik	Kululiigi nimetus	Materjali markeering	Mõõdud			Kogus			γ	Kokku		Pakkimine	CNC	Tellija	Värvimine/ viimistlus	Kommentaar
							B [mm]	H [mm]	L [mm]	m	m²	pc	%							
FE	Karkass	CE			Karkass/roovid/latid	S2S 45x45				5			10%	6		Kaasa		#N/A		Tugilatt
FE	Karkass	CE			Karkass/roovid/latid	S2S 45x35				3			10%	3		Kaasa		#N/A		Täitelatt CE105
FE	Karkass	CE				Liimpuit GL28h	45	300	300				10%	330					Element x #N/A	
FE	Karkass	CE			Karkass	SHP 45x95 C24				40			10%	44		Element	x	#N/A		
FE	Karkass	CE			Karkass	SHP 45x95 C24				13			10%	14		Kaasa		#N/A		Tugilatt; CE105
FE	Karkass	CE			Karkass	SHP 45x145 C24				20			10%	22		Element	x	#N/A		
FE	Karkass	CE			Karkass	SHP 45x145 C24				5			10%	6		Kaasa		#N/A		CE105
FE	Karkass	CE			Karkass	SHP 45x105 C24				2			10%	2		Element	x	#N/A		
FE	Karkass	CE			Karkass	SHP 45x195 C24				52			10%	57		Element	x	#N/A		
FE	Karkass	CE	5000		Karkass	SHP 45x245 C24	45	245	2562			2	10%	2		Kaasa		#N/A		Liit-tala, vt "vahelaetala 1"
FE	Karkass	CE	5001		Karkass	SHP 45x143 C24	45	143	1127			2		2		Kaasa		#N/A		Liit-tala, vt "vahelaetala 1"
FE	Karkass	CE	5002			Liimpuit GL28h	39	300	6195			2		2		Kaasa		#N/A		Liit-tala
FE	Karkass	CE	1989			Liimpuit GL28h	80	300	4596			1		1		Element	x	#N/A		
FE	Karkass	CE	1991			Liimpuit GL28h	120	300	1925			1		1		Element	x	#N/A		
FE	Karkass	CE	1990			Liimpuit GL28h	120	300	2770			1		1		Element	x	#N/A		
FE	Karkass	CE	1988			Liimpuit GL28h	140	300	5267			1		1		Element	x	#N/A		
FE	Karkass	CE	1759			Liimpuit GL28h	160	300	4855			1		1		Element	x	#N/A		
FE	Karkass	CE				Met.tuuleside 2x40	2	40	900			4		4		Element		#N/A		CE101
FE	Karkass	CE				Talaking 44x227 (Simpson)	44	227				2		2		Element		#N/A		CE103
FE	Karkass	CE				Vinkel tugevdusega 90x90	90	90				12		12		Element		#N/A		CE105; CE104
FE	Karkass	CE				Vinkel tugevdusega 90x90	90	90				15		15		Kaasa		#N/A		CE104; CE106
FE	Karkass	CE				Rothoblaas BSIS 80x180	80	180				1		1		Element		#N/A		CE0106
FE	Karkass	CE				Rothoblaas BSAS 46x207	46	207				15		15		Element		#N/A		CE0106
FE	Karkass	CE				Rothoblaas BSAS 80x180	80	180				1		1		Element		#N/A		CE0106
FE	Karkass	CE				Rothoblaas BSAS 120x190	120	190				4		4		Element		#N/A		CE0106
FE	Karkass	CE				Rothoblaas BSAS 140x180	140	180				1		1		Element		#N/A		CE0106
FE	Karkass	CE																#N/A		
FE	Sheeting	CE			Karkass/roovid/latid	S2S 28x70				115			10%	127		Element		#N/A		
FE	Sheeting	CE			Karkass/roovid/latid	S2S 28x70				135			10%	149		Kaasa		#N/A		
FE	Sheeting	CE				OSB3 12x1196x2800						3	10%	3		Element		#N/A		CE105
FE	Sheeting	CE				Norgips GU9 9.5x1200x2700						2	10%	2		Kaasa		#N/A		
FE	Sheeting	CE				FORESTIA 22x620x2420 TG4						25	10%	28		Kaasa		#N/A		
FE	Sheeting	CE				FORESTIA 22x620x2420 TG4						75	10%	83		Element		#N/A		
FE	Sheeting	CE				Norgips GKB 12.5x1200x2700						85	10%	94		Kaasa		#N/A		Laeplaat, terve lae kogus
FE	Sheeting	CE				Cembrit Multiforce	12					4	10%	4		Kaasa		#N/A		CE105
FE		CE				SFS 4225						35	10%	39		Element		#N/A		
FE		CE				Tyvek Solid						6	10%	7		Kaasa		#N/A		CE105
FE		CE				Paroc Ultra 100						30	10%	33		Kaasa		#N/A		
FE		CE				Paroc Ultra 100						145	10%	160		Element		#N/A		
FE		CE				Siga Sicrall 60						50	0%	50		Element		#N/A		
FE		CE				Siga Sicrall 60						30	0%	30		Kaasa		#N/A		
FE		CE				Mastiks aurutõkete jaoks						40	10%	44		Kaasa		#N/A		
FE		CE				Isover SK-C-20-200						58	10%	64		Element		#N/A		
FE	Karkass	CE				Vineer talade tugevdamiseks	12	300	500			10		10		Element		#N/A		LISATUDI

TAB kategooria	Karkass/S heeting	Tüüp	Pos	Kululiik	Kululiigi nimetus	Materjali markeering	Mõõdud			Kogus			γ	Kokku	Pakkimine	CNC	Tellija	Värvimine/ viimistlus	Kommentaar
							B (mm)	H (mm)	L (mm)	m	m²	pc							
RE	Karkass	RE			Karkass/roovid/latid	S2S 45x45				446			10%	491		Element	#N/A		
		RE			Karkass/roovid/latid	S2S 45x45				730			10%	803		Kaasa	#N/A		
		RE			Karkass/roovid/latid	S2S 45x45 - kolmnurk				3			10%	3		Kaasa	#N/A		
RE	Karkass	RE				Liimpuit GL24h	42	400		518			10%	570		Element	x	#N/A	
RE	Karkass	RE				39x300 Kerto S	39	300		102			10%	112		Element	x	#N/A	Garaazi sarikad
RE	Karkass	RE			Karkass	SHP 45x95 C24				82			10%	90		Element	x	#N/A	
RE	Karkass	RE			Karkass	SHP 45x145 C24				65			10%	72		Element	x	#N/A	
RE	Karkass	RE			Karkass	SHP 45x153 C24	45	153		35			10%	39		Element	x	#N/A	
RE	Karkass	RE			Karkass	SHP 45x120 C24				55			10%	61		Element	x	#N/A	
RE	Karkass	RE			Karkass	SHP 45x195 C24				250			10%	275		Element	x	#N/A	
RE	Karkass	RE			Karkass	SHP 45x245 C24				50			10%	55		Element	x	#N/A	
RE	Sheeting	RE			Karkass/roovid/latid	S2S 21x95	21	95		40			10%	44		Kaasa	x	#N/A	
RE	Sheeting	RE			Karkass/roovid/latid	S2S 28x70				400			10%	440		Element		#N/A	
RE	Sheeting	RE			Karkass/roovid/latid	S2S 28x70				225			10%	248		Kaasa		#N/A	
RE	Sheeting	RE				Tuulekastilaud					25		10%	28		Kaasa		#N/A	Tuulekastilaud
RE	Sheeting	RE	500			Terastala HEA 340	300	330	12796		1		1	1		Kaasa	#N/A	#N/A	Vaata tööjoonist
RE	Sheeting	RE	501			Terastala HEA 340	300	330	6424		1		1	1		Kaasa	#N/A	#N/A	Vaata tööjoonist
RE	Sheeting	RE	6000			Terastala HEA 200	200	190	2185		1		1	1		Kaasa	#N/A	#N/A	Vaata tööjoonist
RE	Sheeting	RE			Karkass	SHP 45x145 C24	45	145	728		6		6	6		Kaasa	#N/A	#N/A	Liitpost; omavahel liimida+kruvida
RE	Sheeting	RE				OSB3 12x1196x2800										Element	#N/A	#N/A	
RE	Sheeting	RE				OSB3 18x1250x2500 TG4										Element	#N/A	#N/A	
RE	Sheeting	RE				WISA 12x1250x2500 III/III										Element	#N/A	#N/A	
RE	Sheeting	RE				WISA 15x1250x2500 TG4 III/III										Element	#N/A	#N/A	
RE	Sheeting	RE	NBI 1 kiht			Norgips GKB 12.5x1200x2700					160		10%	176		Kaasa	#N/A	#N/A	Laeplaat, terve lae kogus 1-kiht
RE	Sheeting	RE	NBI 1 kiht			Norgips GKB 12.5x1200x2700					30		10%	33		Kaasa	#N/A	#N/A	Garaazi lagi 1-kiht
RE	Sheeting	RE				OSB3 12x1196x2800										Element	#N/A	#N/A	
RE	Sheeting	RE				Norgips GU9 9.5x1200x2700					15		10%	17		Element	#N/A	#N/A	
RE	Sheeting	RE				FORESTIA 22x620x2420 TG4					33		10%	36		Element	#N/A	#N/A	
RE	Sheeting	RE				FORESTIA 22x620x2420 TG4					5		10%	6		Kaasa	#N/A	#N/A	
RE		RE				SIGA Majcoat 150					230		15%	265					

hide

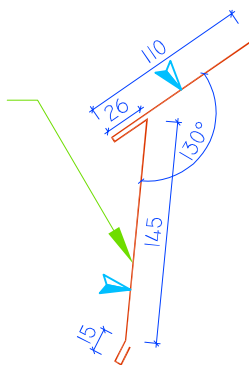
TAB katagooria	Karkass/s heeting	Tüüp	Pos	Kululiik	Kululiigi nimetus	Materjali markeering	Mõõdud			Kogus			γ	Kokku	Pakkimine	CNC	Tellija	Värvimine/ viimistlus	Kommentaar
							B [mm]	H [mm]	L [mm]	m	m²	pc	%						
		TR	1016	P-1		Raami post HEA 200					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1009	PL-1		Plaat					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1006	PL-2		Plaat					4			4		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1000	T-1		Raami tala HEA 200					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1006	PL-5		Plaat					4			4		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1014	T-3		Raami tala HEA 200					1			1		Kaasa	#N/A		Vaata raami jooniseid!
		TR		T-2		Raami tala HEA 140					1			1		Kaasa	#N/A		Vaata raami jooniseid!
		TR		V-1		Vinkel					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1002	P-2		Raami post HEA 120					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1011	PL-6		Plaat					6			6		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1010	PL-7		Plaat					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1013	P-3		Raami post HEA 120					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1022	T-4		Konsooli tala IPE 160					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1021	PL-8		Plaat					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1020	PL-9		Plaat					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1019	T-5		Konsooli post IPE 160					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1018	PL-10		Plaat					2			2		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1012	PL-11		Plaat					4			4		Kaasa	#N/A		Vaata raami jooniseid!
		TR	1017	PL-12		Plaat					4			4		Kaasa	#N/A		Vaata raami jooniseid!
		TR				Poldid + mutrid/seibid; klass 10.9	M16		65		20			20		Kaasa	#N/A		
		TR				Poldid + mutrid/seibid; klass 8.8	M12		62		28			28		Kaasa	#N/A		
		TR				Poldid + mutrid/seibid; klass 8.8	M8		50		8			8		Kaasa	#N/A		
		TR				Rothoblaas KOP 8x120	M8		120		8			8		Kaasa	#N/A		Konsooli kinnitus
		TR				Rothoblaas KOP 8x160	M8		160		4			4		Kaasa	#N/A		Konsooli kinnitus
		TR				Puit raami külge	25	45/70		35			10%	39		Kaasa	#N/A		
		TR				Puit raami külge	45	170		35			10%	39		Kaasa	#N/A		
		TR				Puit raami külge	45	245		35			10%	39		Kaasa	#N/A		
		TR				Puit raami külge	30	45		8			10%	9		Kaasa	#N/A		
		TR				TAPCON XTREM HFL max. anchorage	10		160/105-75		12			12			#N/A		Vundasse kinnitus
																#N/A			
TE ja BE	Karkass	TE				IMP SHP 45x45	45	45		20			10%	22		Kaasa	#N/A		Tugilatt
TE ja BE	Karkass	TE				IMP SHP 45x145	45	145		70			10%	77		Kaasa	x	#N/A	Talad
TE ja BE	Karkass	TE				IMP SHP 28x95	28	95		220			10%	242		Kaasa	#N/A		
TE ja BE	Karkass	TE		0		Vinkle C4-klass	60	60			12			12		Kaasa	#N/A		
TE ja BE	Karkass	TE		0		Betooniankur 6x100	6	100			12			12		Kaasa	#N/A		
TE ja BE	Karkass	TE		0		Talaking	91	144			1			1		Kaasa	#N/A		
																#N/A			
			PL-1			Räästaplekk			2000		24			24		Kaasa	#N/A		
			PL-2			Parapeti plekk			2000		11			11		Kaasa	#N/A	Garaaz	
			PL-3			Katteplekk			2000		7			7		Kaasa	#N/A		
			PL-4			Liiteplekk			2000		4			4		Kaasa	#N/A		
			PL-5			Liiteplekk			2000		2			2		Kaasa	#N/A		
			PL-6			Katteplekk			2000		2			2		Kaasa	#N/A		
			PL-7			Katteplekk			2000		2			2		Kaasa	#N/A		
			PL-8			Räästaplekk			2000		3			3		Kaasa	#N/A	Garaaz	
	A-U				Pöselaud	Pöselaud	20	80		60			10%	66		Kaasa	#N/A		
	A-U				Pöselaud	Pöselaud	20	120		90			10%	99		Kaasa	#N/A		
	A-U				Teip sees	Siga Covrum 12/48				180			10%	198		Kaasa	#N/A		
	A-U				Teip väljas	Fentrim IS 75mm				180			10%	198		Kaasa	#N/A		
	A-U				Fassaadikivi SEIN	MONIER Turmalin					254		15%	292,1		Kaasa	#N/A	see on NETO pind!	
	A-U				Fassaadikivi KATUS	MONIER Turmalin					215		15%	247,25		Kaasa	#N/A	see on NETO pind!	

ELEMENDID

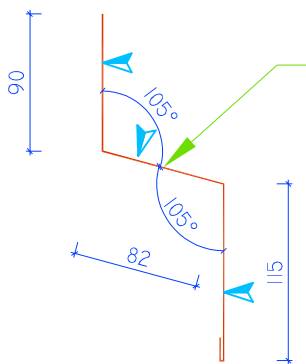
Group	ELEMENT	Laius (max)	Kõrgus	Paksus	Kogus	Pind	Volume	Mass	Uks/aken
Vahelagi\CE	CE101	2543	8629	362,5	1	m²	m³	kg	
Vahelagi\CE	CE102	2045	8629	363	1	17,64	6,40	0	
Vahelagi\CE	CE103	2560	8629	363	1	22,09	8,01	0	
Vahelagi\CE	CE104	3245	5345	363	1	17,34	6,29	0	
Vahelagi\CE	CE105	1335	2746	333	1	3,67	1,22	0	
Vahelagi\CE	CE106	2990	5345	363	1	15,98	5,79	0	
Vahelagi\CE	CE107	3062	1747	208	1	5,35	1,11	0	
EW1\1 korrus	EW101	2235	4625	408	1	10,34	4,22	568	
EW1\1 korrus	EW102	2700	4625	408	1	12,49	5,09	687	
EW1\1 korrus	EW103	2500	4625	408	1	11,56	4,72	636	JAH
EW1\1 korrus	EW104	1900	4625	408	1	8,79	3,59	483	JAH
EW1\1 korrus	EW105	2820	4625	408	1	13,04	5,32	717	JAH
EW1\1 korrus	EW106	7152	2538	444	1	18,15	8,06	998	JAH
EW1\1 korrus	EW107	8704	2538	408	1	22,09	9,01	1215	
EW1\1 korrus	EW108	6472	2538	444	1	16,43	7,29	903	JAH
EW1\1 korrus	EW109	5320	2538	444	1	13,50	5,99	743	JAH
EW1\1 korrus	EW110	2590	4625	444	1	11,98	5,32	659	JAH
EW1\1 korrus	EW111	2235	4625	408	1	10,34	4,22	568	
EW1\1 korrus	EW112	2700	4625	408	1	12,49	5,09	687	
EW1\Konsool	EW113	1283	1893	444	1	2,43	1,08	134	JAH
EW1\Konsool	EW114	2621	1893	380	1	4,96	1,89	273	
EW1\Konsool	EW115	1283	1893	444	1	2,43	1,08	134	JAH
EW1\2 korrus	EW201	7152	1820	444	1	13,02	5,78	716	JAH
EW1\2 korrus	EW202	8704	2832	444	1	24,65	10,94	1356	JAH
EW1\2 korrus	EW203	11812	1820	435	1	21,50	9,34	1182	JAH
EW1\2 korrus	EW301	6287	2201	380	1	13,84	5,26	761	
GARAAZ\EW	EW401	6414	3131	263	1	20,08	5,28	1105	
GARAAZ\EW	EW402	5114	3131	263	1	16,01	4,21	881	JAH
GARAAZ\EW	EW403	6414	3131	299	1	20,08	6,00	1105	JAH
GARAAZ\EW	EW404	5114	3131	299	1	16,01	4,79	881	
GARAAZ\EW	EW405	6493	355	273	1	2,31	0,63	127	
GARAAZ\EW	EW406	6493	355	273	1	2,31	0,63	127	
GARAAZ\EW	EW407	5271	355	273	1	1,87	0,51	103	

Group	ELEMENT	Laius (max)	Kõrgus	Paksus	Kogus	Pind	Volume	Mass	Uks/aken
VahelagilCE	CE101	2543	8629	362,5	1	m²	m³	kg	
IW1\1 korrus	IW101	2316	2543	129	1	5,89	0,76	59	
IW1\1 korrus	IW102	3451	2533	129	1	8,74	1,12	87	
IW1\1 korrus	IW103	1445	2543	120	1	3,67	0,44	37	
IW1\1 korrus	IW104	2427	2543	120	1	6,17	0,74	62	
IW1\1 korrus	IW105	820	2533	120	1	2,08	0,25	21	
IW1\1 korrus	IW106	1691	2533	120	1	4,28	0,51	43	
IW1\1 korrus	IW107	1905	2533	120	1	4,82	0,58	48	
IW1\1 korrus	IW108	3985	2543	145	1	10,13	1,47	101	
IW1\1 korrus	IW109	4700	2543	120	1	11,95	1,43	120	
IW1\1 korrus	IW110	971	2543	129	1	2,47	0,32	25	
IW1\1 korrus	IW111	4603	2543	120	1	11,70	1,40	117	
IW1\1 korrus	IW112	1789	2400	120	1	4,29	0,52	43	
IW1\2 korrus	IW201	2847	4033	120	1	11,48	1,38	115	
IW1\2 korrus	IW202	8044	2700	120	1	21,72	2,61	217	
IW1\2 korrus	IW203	4707	2700	120	1	12,71	1,53	127	
IW1\2 korrus	IW204	1799	3673	120	1	6,61	0,79	66	
IW1\2 korrus	IW205	2207	4286	120	1	9,46	1,14	95	
IW1\2 korrus	IW206	3060	3365	120	1	10,30	1,24	103	
IW1\2 korrus	IW207	3145	3970	120	1	12,49	1,50	125	
IW1\2 korrus	IW208	4622	3095	120	1	14,31	1,72	143	
IW1\2 korrus	IW209	1257	3927	120	1	4,93	0,59	49	
IW1\2 korrus	IW301	4907	1604	120	1	7,87	0,94	79	
IW1\2 korrus	IW302	3139	1604	120	1	5,04	0,60	50	
KTUS-ELEMENTIRE	RE101	3055	5461	564	1	16,68	9,41	0	
KTUS-ELEMENTIRE	RE102	3055	5461	564	1	16,68	9,41	0	
KTUS-ELEMENTIRE	RE103	2800	5461	564	1	15,29	8,62	0	
KTUS-ELEMENTIRE	RE104	2800	5461	564	1	15,29	8,62	0	
KTUS-ELEMENTIRE	RE105	2600	5461	564	1	14,20	8,01	0	
KTUS-ELEMENTIRE	RE106	2600	5461	564	1	14,20	8,01	0	
KTUS-ELEMENTIRE	RE107	2880	5461	564	1	15,73	8,87	0	
KTUS-ELEMENTIRE	RE108	2880	5461	564	1	15,73	8,87	0	
KTUS-ELEMENTIRE	RE109	2880	5461	564	1	15,73	8,87	0	
KTUS-ELEMENTIRE	RE110	2920	5461	564	1	15,95	8,99	0	
KTUS-ELEMENTIRE	RE111	2353	5461	564	1	12,85	7,25	0	
KTUS-ELEMENTIRE	RE112	2353	5461	564	1	12,85	7,25	0	
KTUS-ELEMENTIRE	RE113	2792	5461	559	1	15,24	8,53	0	
KTUS-ELEMENTIRE	RE114	2792	5461	559	1	15,24	8,53	0	
KTUS-ELEMENTIRE	RE115	1123	2786	537	1	3,13	1,68	0	
GARAAZIKatus	RE201	2320	5039	482	1	11,69	5,64	0	
GARAAZIKatus	RE202	2320	5039	452	1	11,69	5,29	0	
GARAAZIKatus	RE203	2131	5039	423	1	10,74	4,54	0	

Räästaplekk PL-1
RR23 tumehall

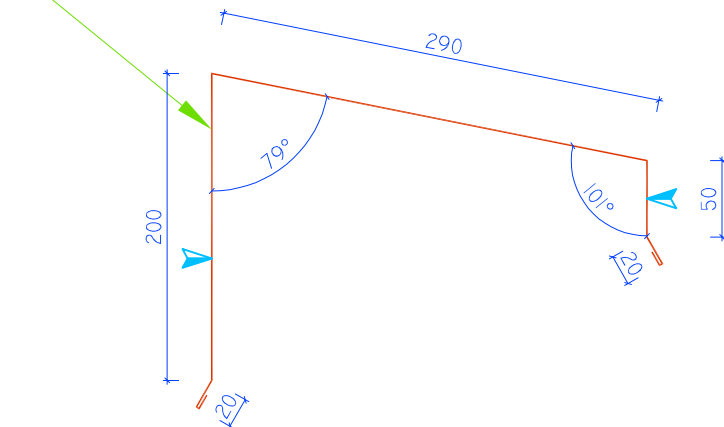


Liiteplekk PL-4;
RR23 tumehall, Sauna konsool

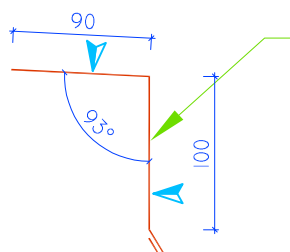


PL-1	Räästaplekk	2000	24	Kaasa
PL-2	Parapeti plekk	2000	11	Kaasa
PL-3	Katteplekk	2000	7	Kaasa
PL-4	Liiteplekk	2000	4	Kaasa
PL-5	Liiteplekk	2000	2	Kaasa
PL-6	Katteplekk	2000	2	Kaasa
PL-7	Katteplekk	2000	2	Kaasa
PL-8	Räästaplekk	2000	3	Kaasa

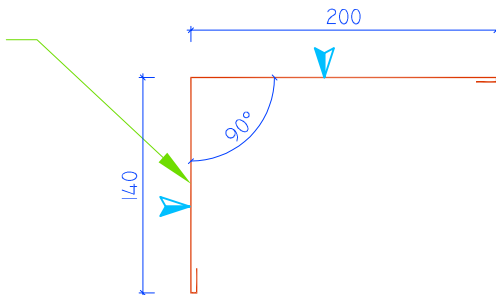
Parapeti plekk
PL-2
RR23 tumehall



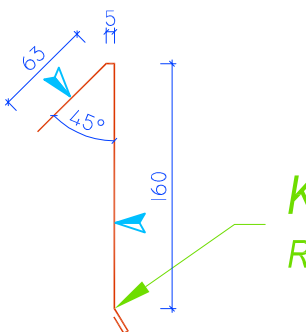
Katteplekk PL-5;
RR23 tumehall, Sauna konsool



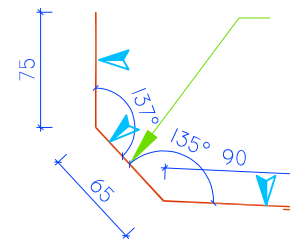
Katteplekk PL-3
RR23 tumehall



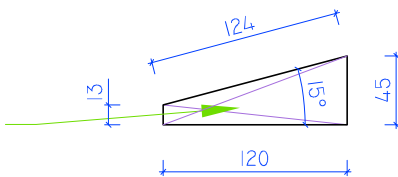
Katteplekk PL-6
RR23 tumehall, Sauna konsool



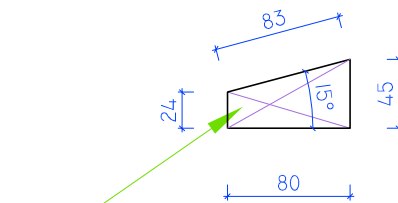
Liiteplekk PL-7
RR23 tumehall, Sauna konsool



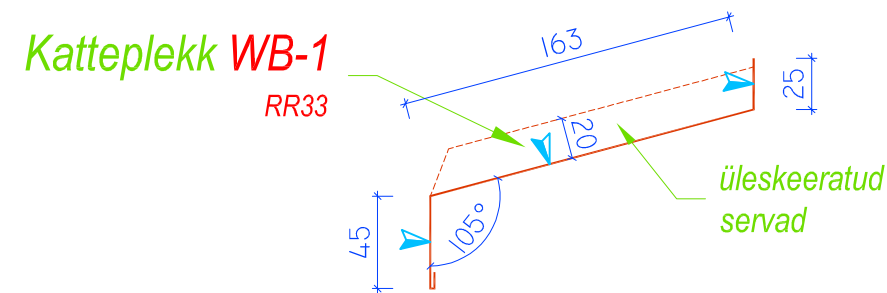
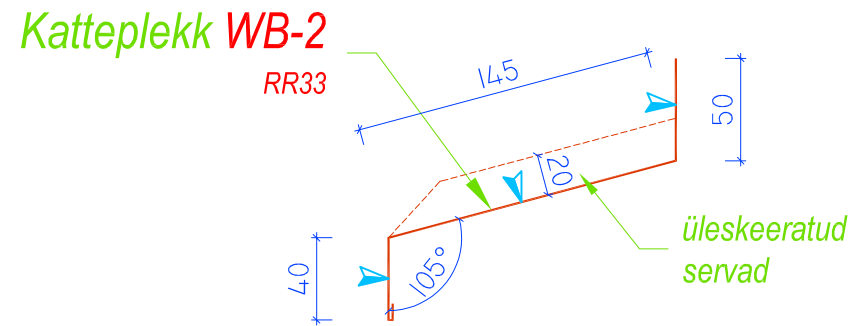
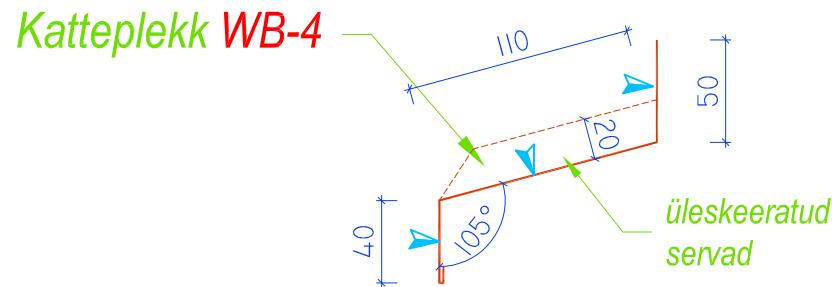
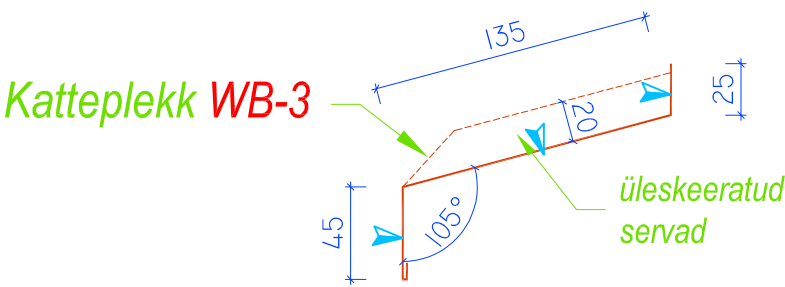
Kalduprofiil SP-1
45x120 mm



Kalduprofiil SP-2
45x80 mm



NB!
• Materjal $t = \min 0,6\text{mm}$
• ➤ NK - nähtav külg



Profiil WB-1 -akende all (kivi fassaad)

Ava tähis	Kogus	Pleki laius	Värv	B	H	15 Ava	Tolerants
	tk	mm		mm	mm	mm	mm
A-1	1	1027	RAL7015 (darkgrey)	1000	2300	1030	3
A-2	1	2027	RAL7015 (darkgrey)	2000	1700	2030	3
A-4	2	627	RAL7015 (darkgrey)	600	1000	630	3
A-6	1	1827	RAL7015 (darkgrey)	1800	700	1830	3
A-8	1	3477	RAL7015 (darkgrey)	3450	2975	3480	3
A-9	1	3477	RAL7015 (darkgrey)	3450	2975	3480	3
A-12-13	3	1157	RAL7015 (darkgrey)	1130	1150	1160	3

Profiil WB-2 -akende peal (kivi fassaad)

Ava tähis	Kogus	Pleki laius	Värv	B	H	15 Ava	Tolerants
	tk	mm		mm	mm	mm	mm
A-1	1	1027	RAL7015 (darkgrey)	1000	2300	1030	3
A-2	1	2027	RAL7015 (darkgrey)	2000	1700	2030	3
A-3	1	3027	RAL7015 (darkgrey)	3000	2300	3030	3
A-4	2	572	RAL7015 (darkgrey)	545	1000	575	3
A-6	1	1827	RAL7015 (darkgrey)	1800	700	1830	3
A-8	1	3477	RAL7015 (darkgrey)	3450	2975	3480	3
A-9	1	3477	RAL7015 (darkgrey)	3450	2975	3480	3
VU-1	1	2377	RAL7015 (darkgrey)	2350	2100	2380	3
VU-2	1	827	RAL7015 (darkgrey)	800	2100	830	3
VU-4	1	1027	RAL7015 (darkgrey)	1000	2100	1030	3
VU-5	1	3527	RAL7015 (darkgrey)	3500	2700	3530	3

Profiil WB-3 -akende all (puitvooder)

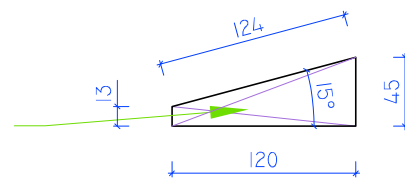
Ava tähis	Kogus	Pleki laius	Värv	B	H	15 Ava	Tolerants
	tk	mm		mm	mm	mm	mm
A-5	3	827		800	2500	830	3
A-7	1	1027		1000	1000	1030	3
A-10-11	2	3305		3278	3648	3308	3

Profiil WB-4 -akende peal (puitvooder)

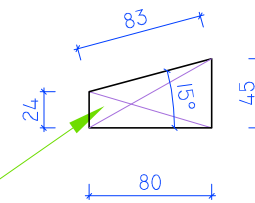
Ava tähis	Kogus	Pleki laius	Värv	B	H	15 Ava	Tolerants
	tk	mm		mm	mm	mm	mm
A-5	3	827		800	2500	830	3
A-7	1	1027		1000	1000	1030	3
VU-3	2	3305		3278	2724	3308	3

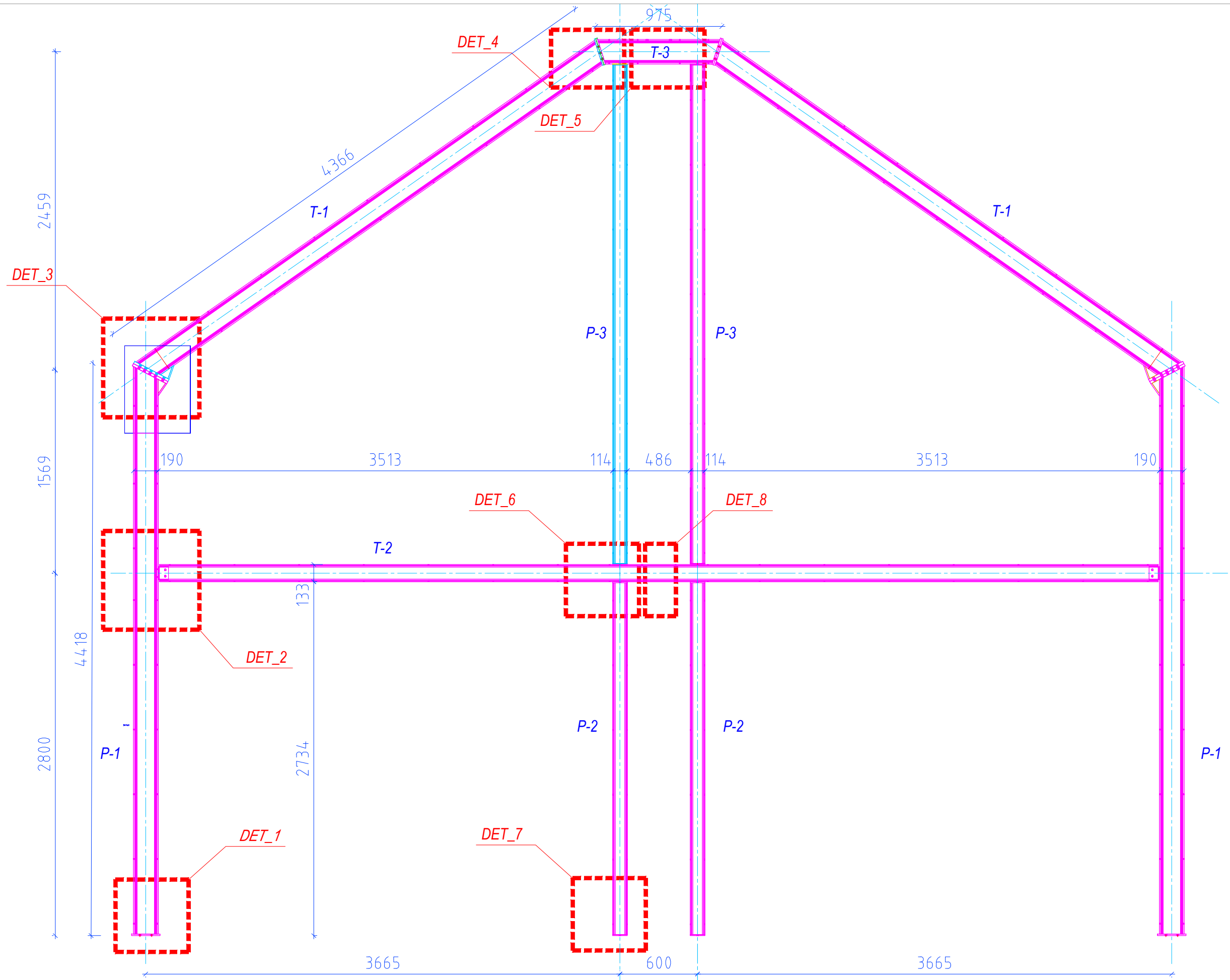
- NB!
- Materjal t = min 0,6mm
 - ➤ NK - nähtav külg

Kalduprofiil SP-1
45x120 mm



Kalduprofiil SP-2
45x80 mm

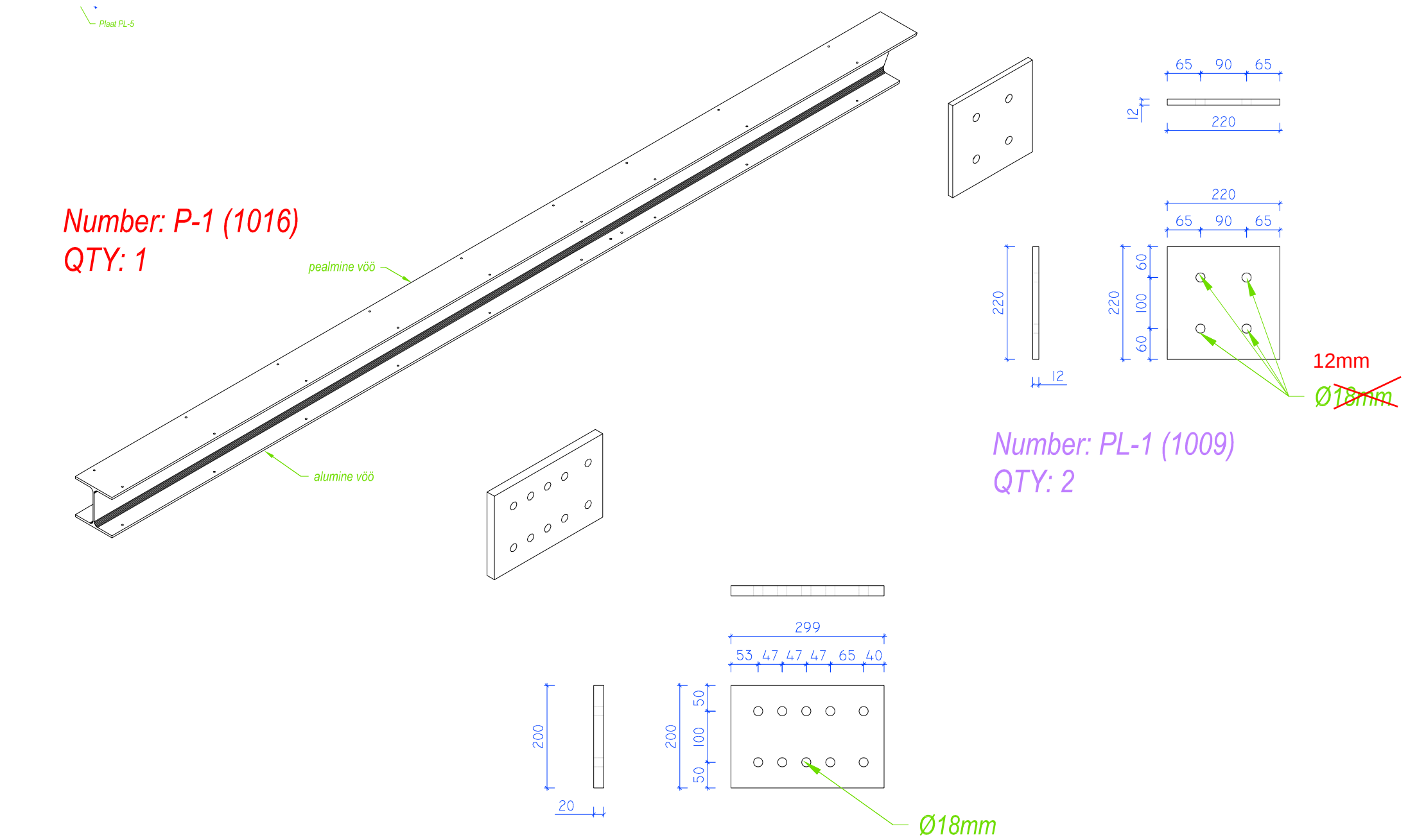
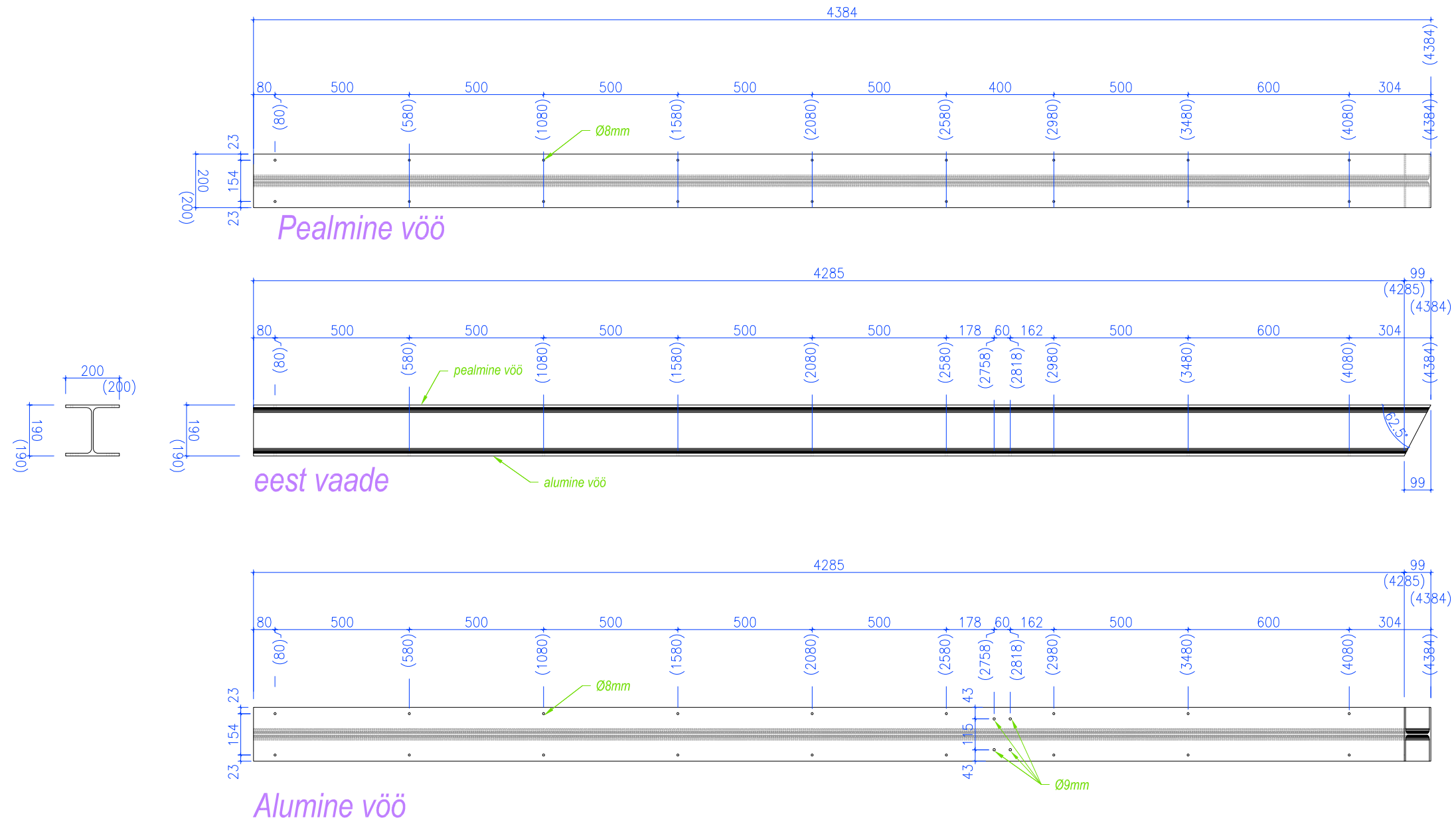




Kõikide terasdetailide klass on
S 355

Ühenduspoldid M8mm (8.8)
L=50mm (8tk)+seibid

Ühenduspoldid M16mm (10.9)
L=65mm (20tk)+seibid
Ühenduspoldid M12mm (8.8)
L=50mm (28tk)+seibid;

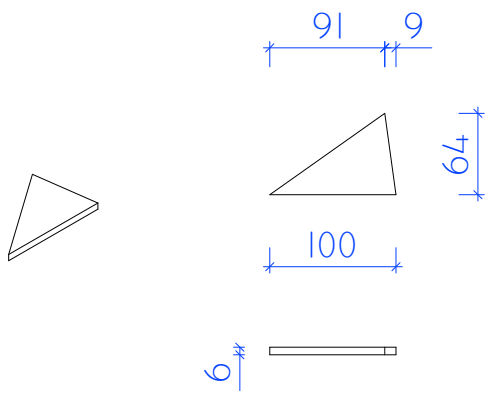


MÄRKUSED:

- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

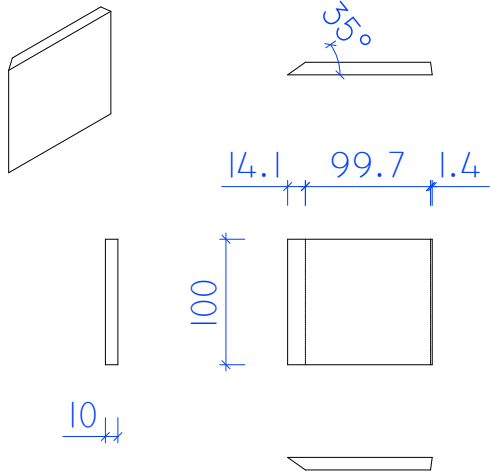
Post P-1; 2tk
HEA 200

Kõikide terasdetailide klass on
S 355



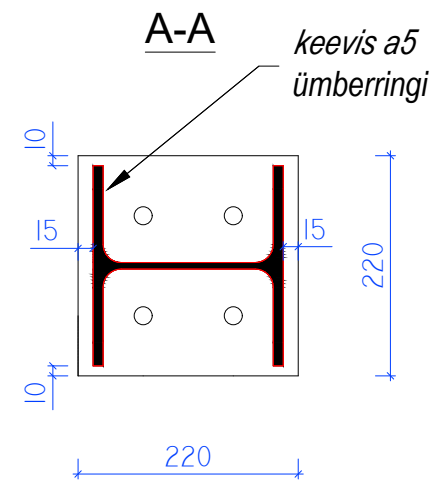
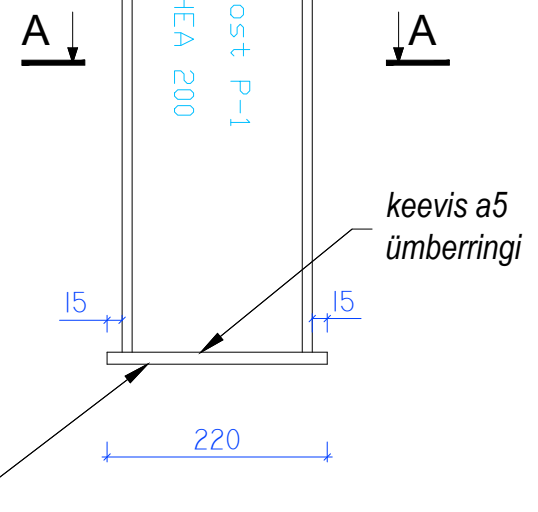
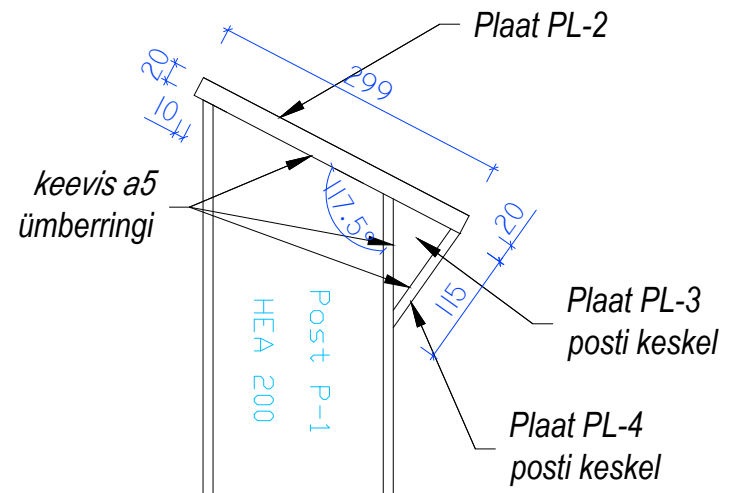
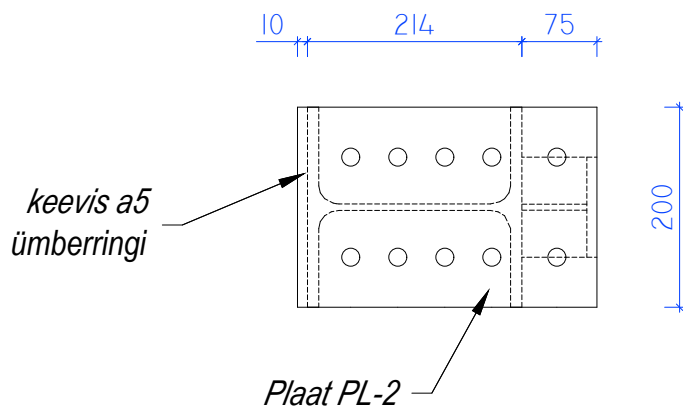
Number: PL-3 (1004)

QTY: 4



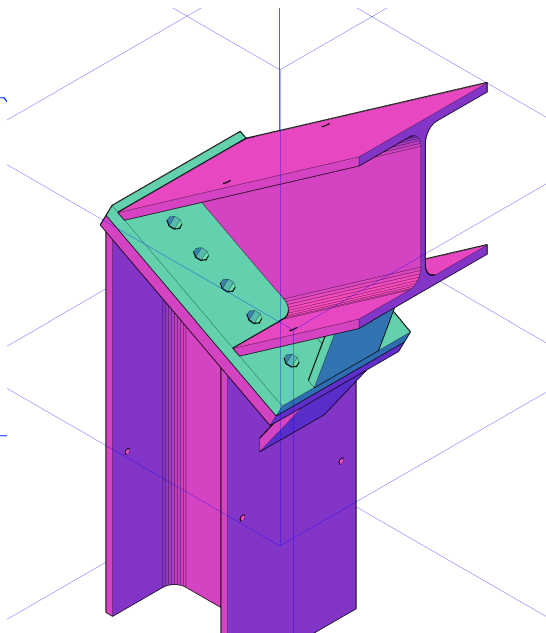
Number: PL-4 (1005)

QTY: 4



Plaat PL-2

Post P-1



Post P-1

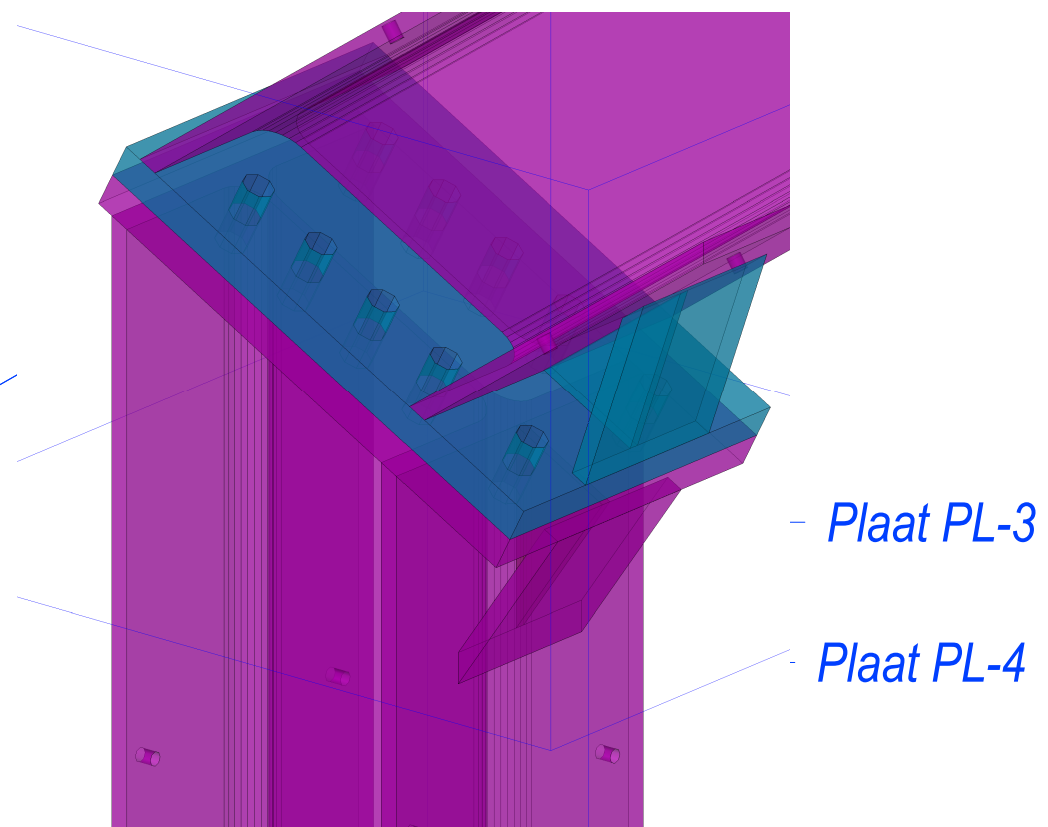
Plaat PL-2

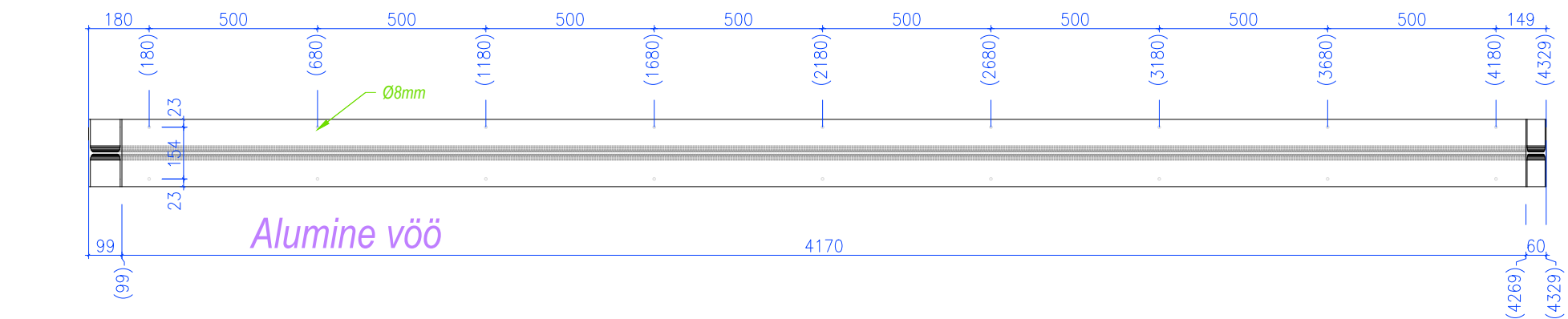
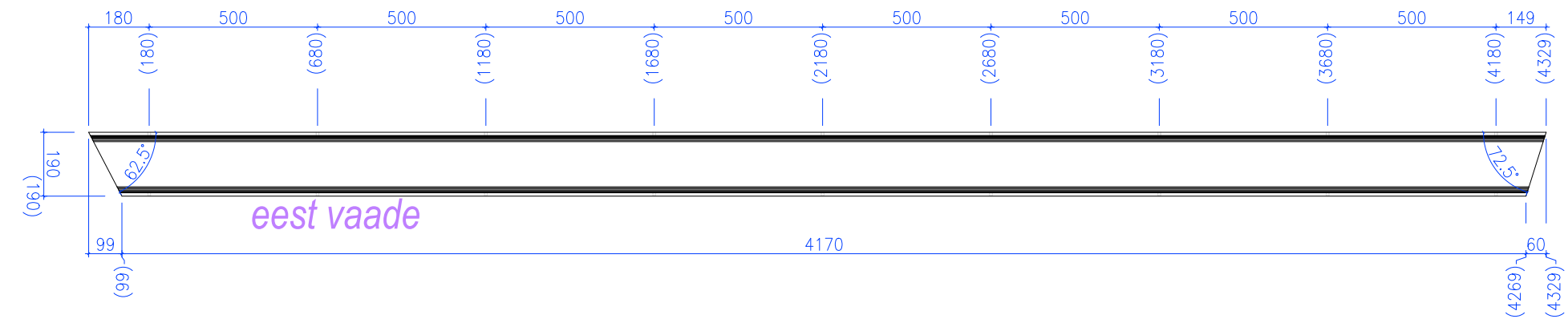
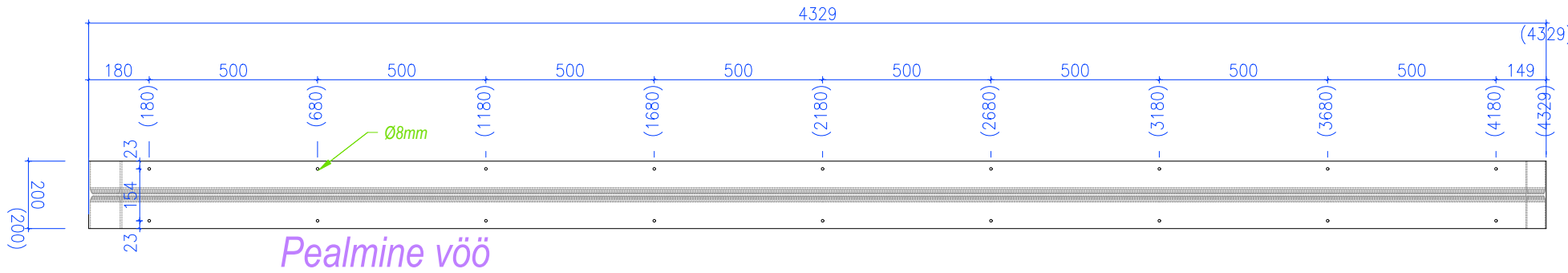
Plaat PL-1

- MÄRKUSED:
- KÕIK KEEVISED a5
 - KESKKONNA SAASTEKLASS C-3
 - KRUNTIDA
 - PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

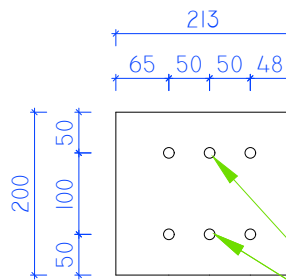
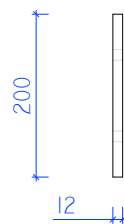
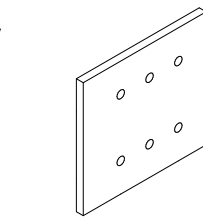
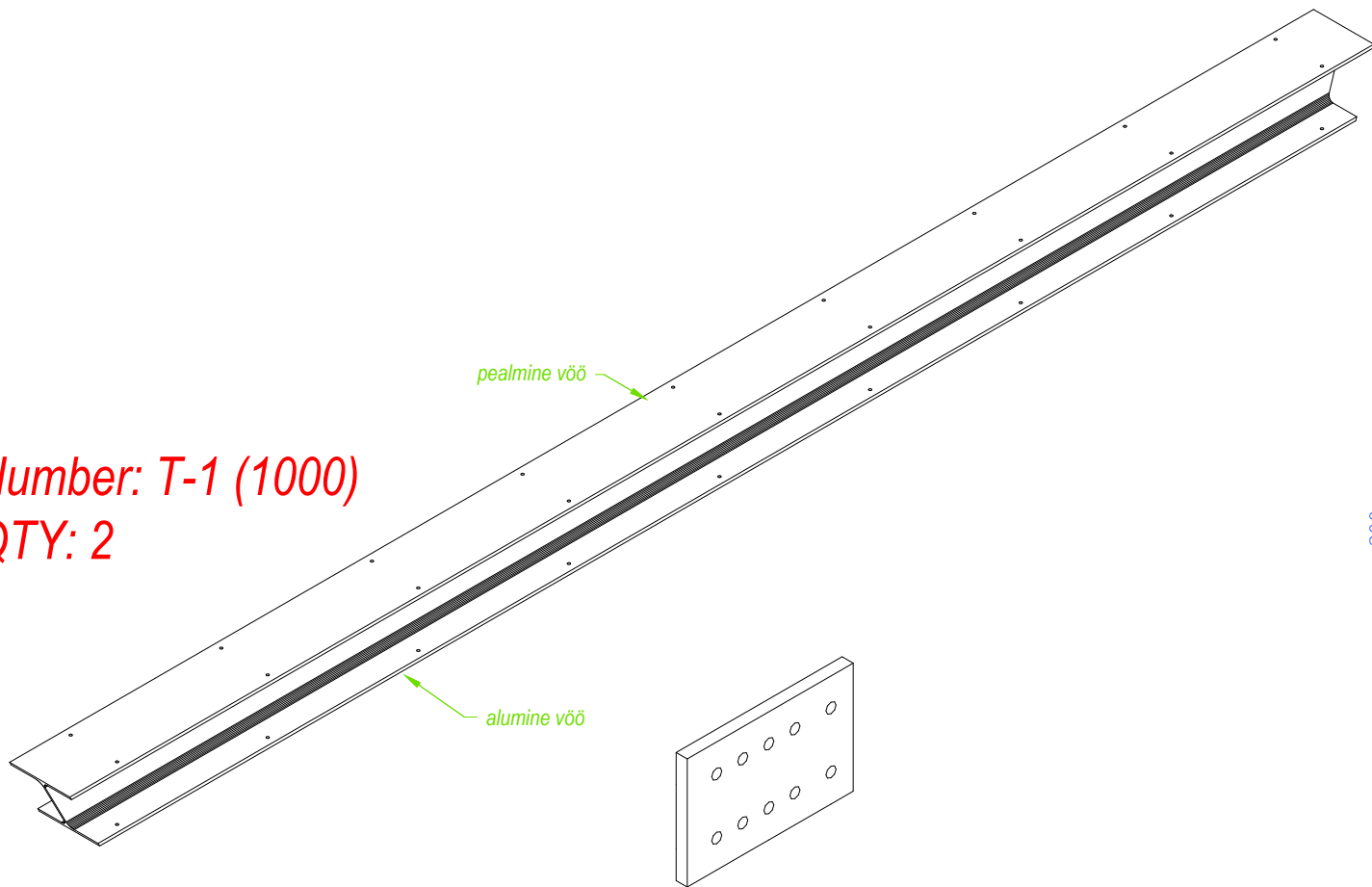
Post P-1; 2tk
HEA 200

Kõikide terasdetailide klass on
S 355



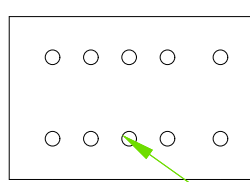
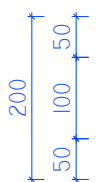
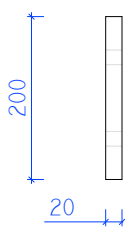
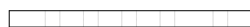
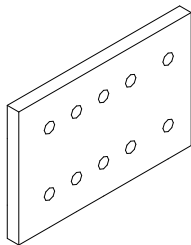


Number: T-1 (1000)
QTY: 2



Ø13mm

Number: PL-5 (1003)
QTY: 4



Ø18mm

Number: PL-2 (1006)
QTY: 4

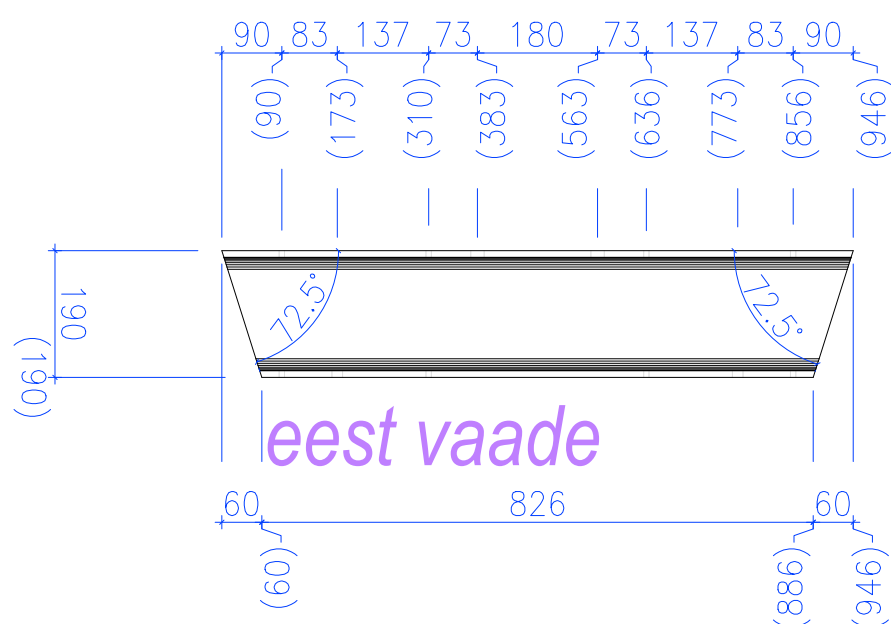
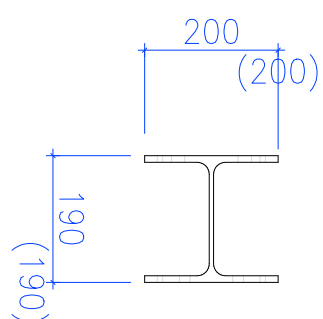
MÄRKUSED:

- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

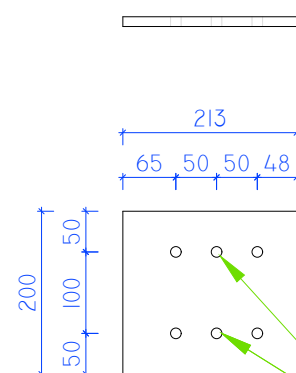
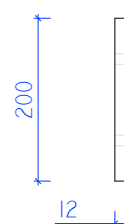
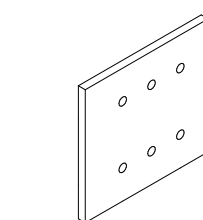
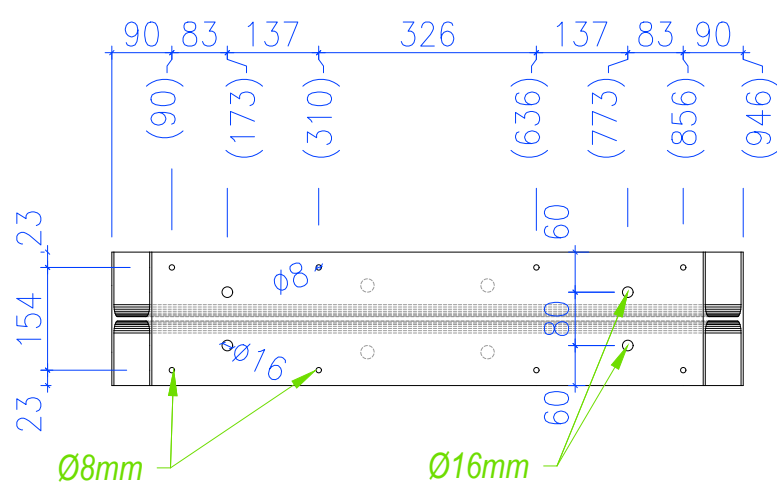
Tala T-1; 2tk
HEA 200

Kõikide terasdetailide klass on
S 355

QTY: 1



Alumine vöö



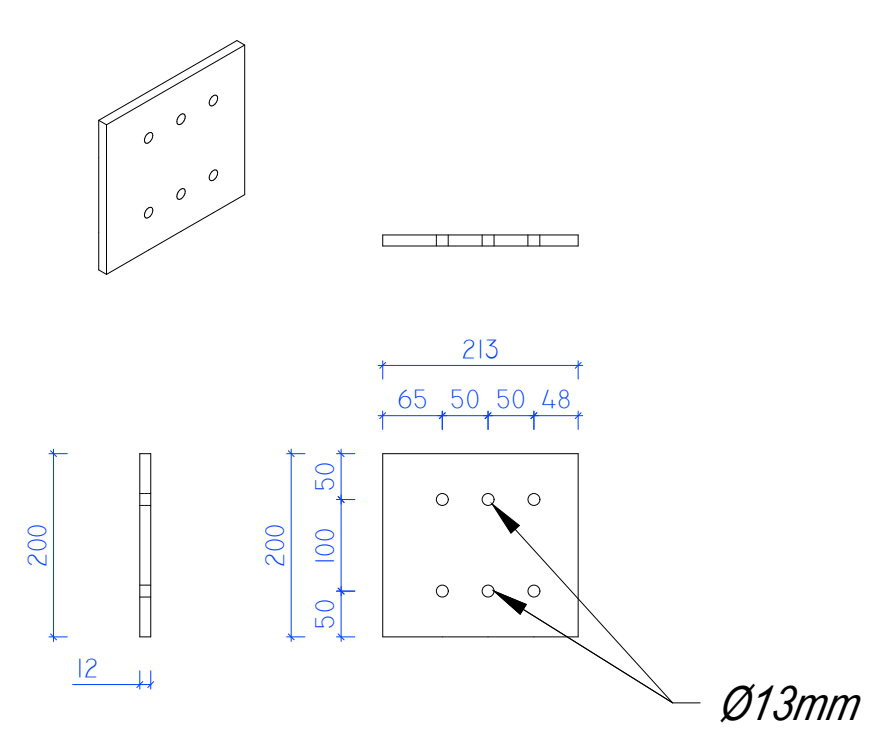
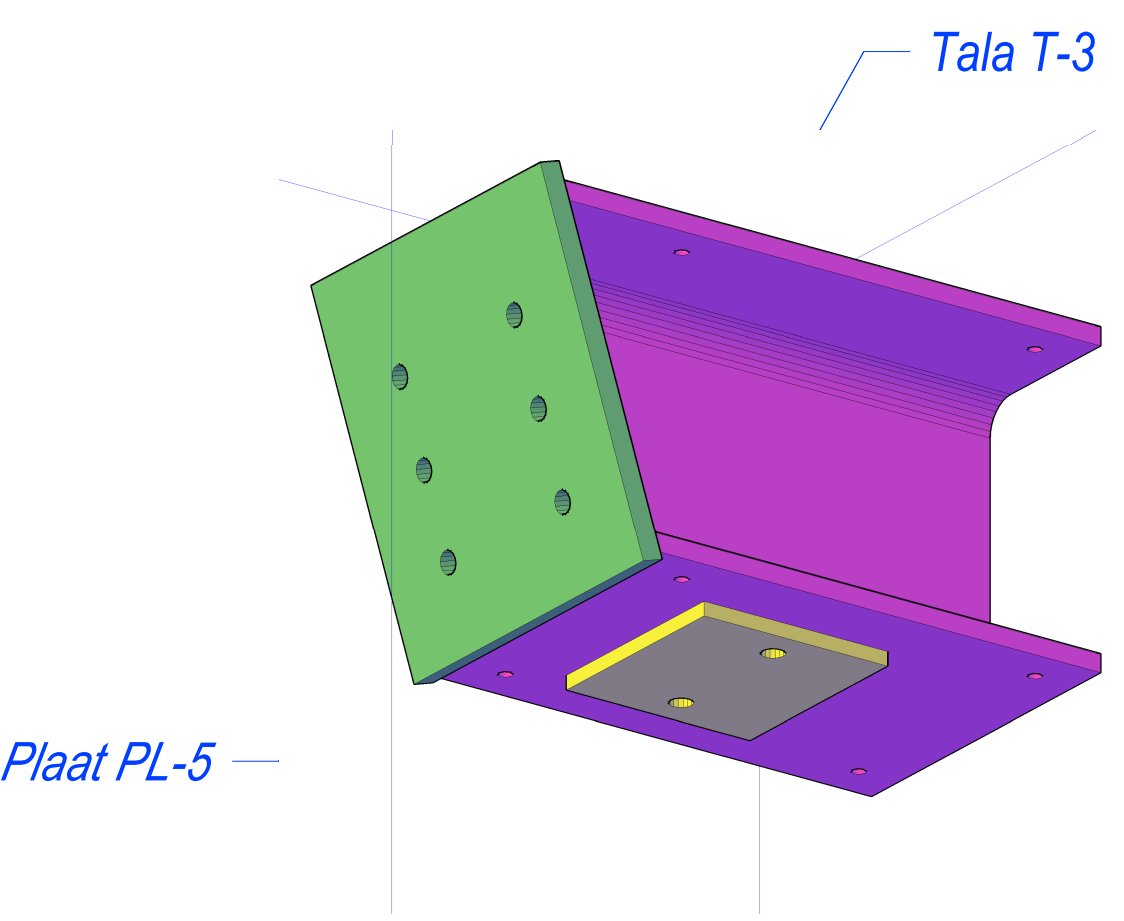
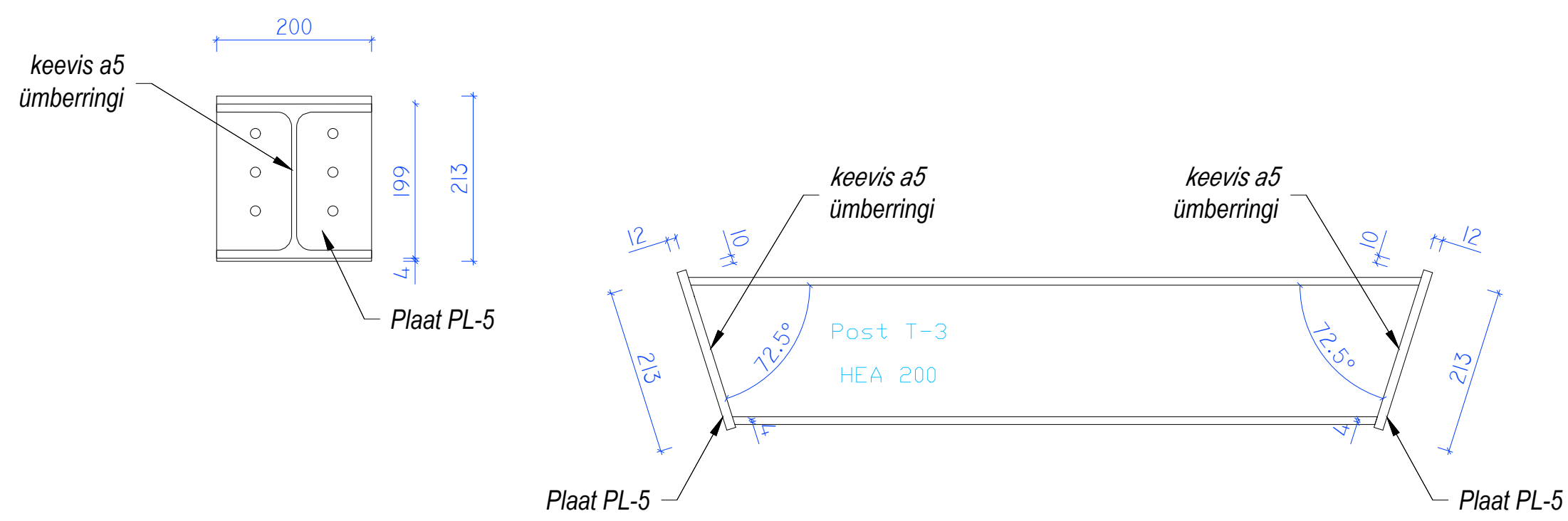
Ø13mm

Number: PL-5 (1003)
QTY: 4

- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

Tala T-3; 1tk
HEA 200

Kõikide terasdetailide klass on
S 355

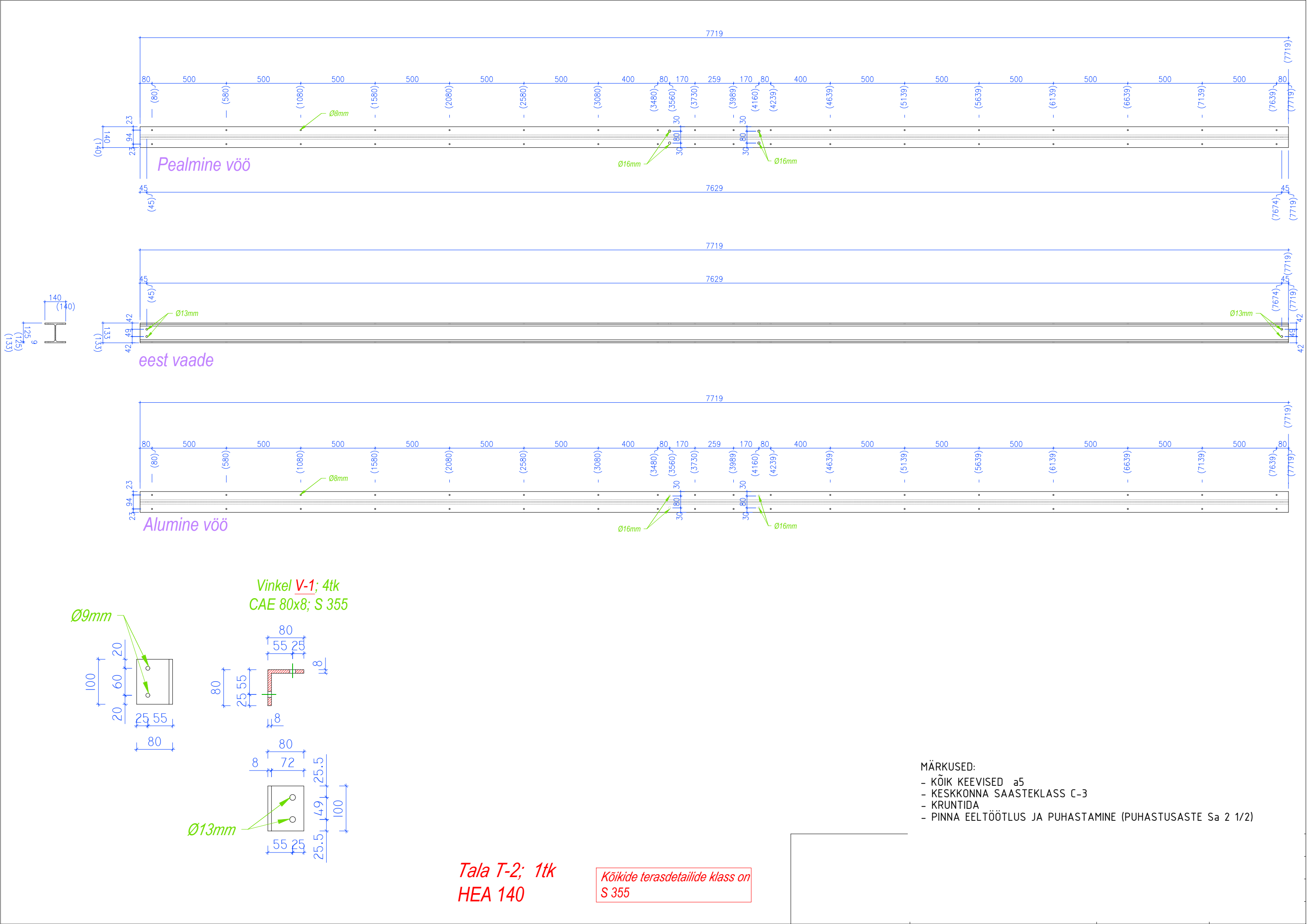


Number: PL-5 (1003)
QTY: 4

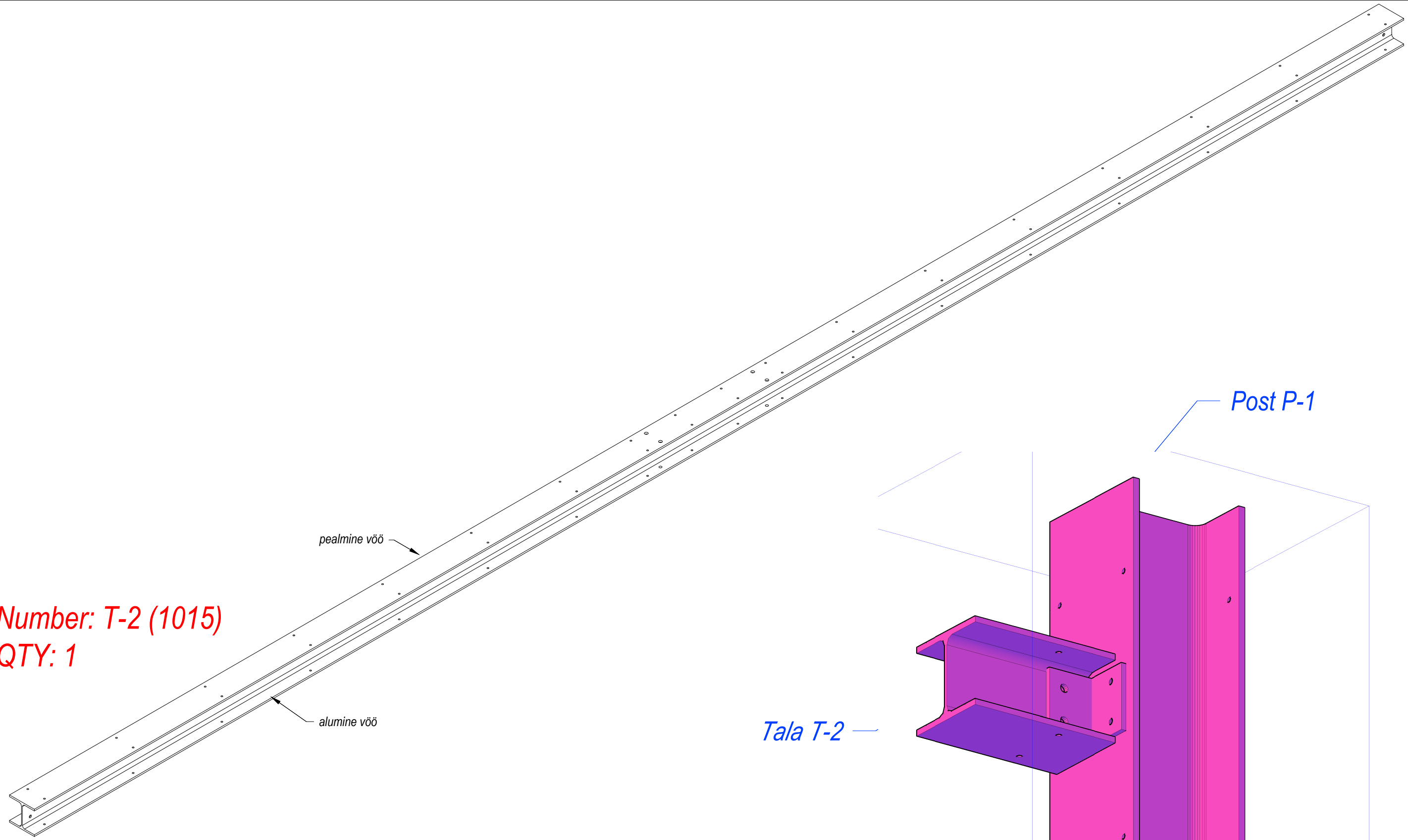
MÄRKUSED:
- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

Tala T-3; 1tk
HEA 200

Kõikide terasdetailide klass on
S 355

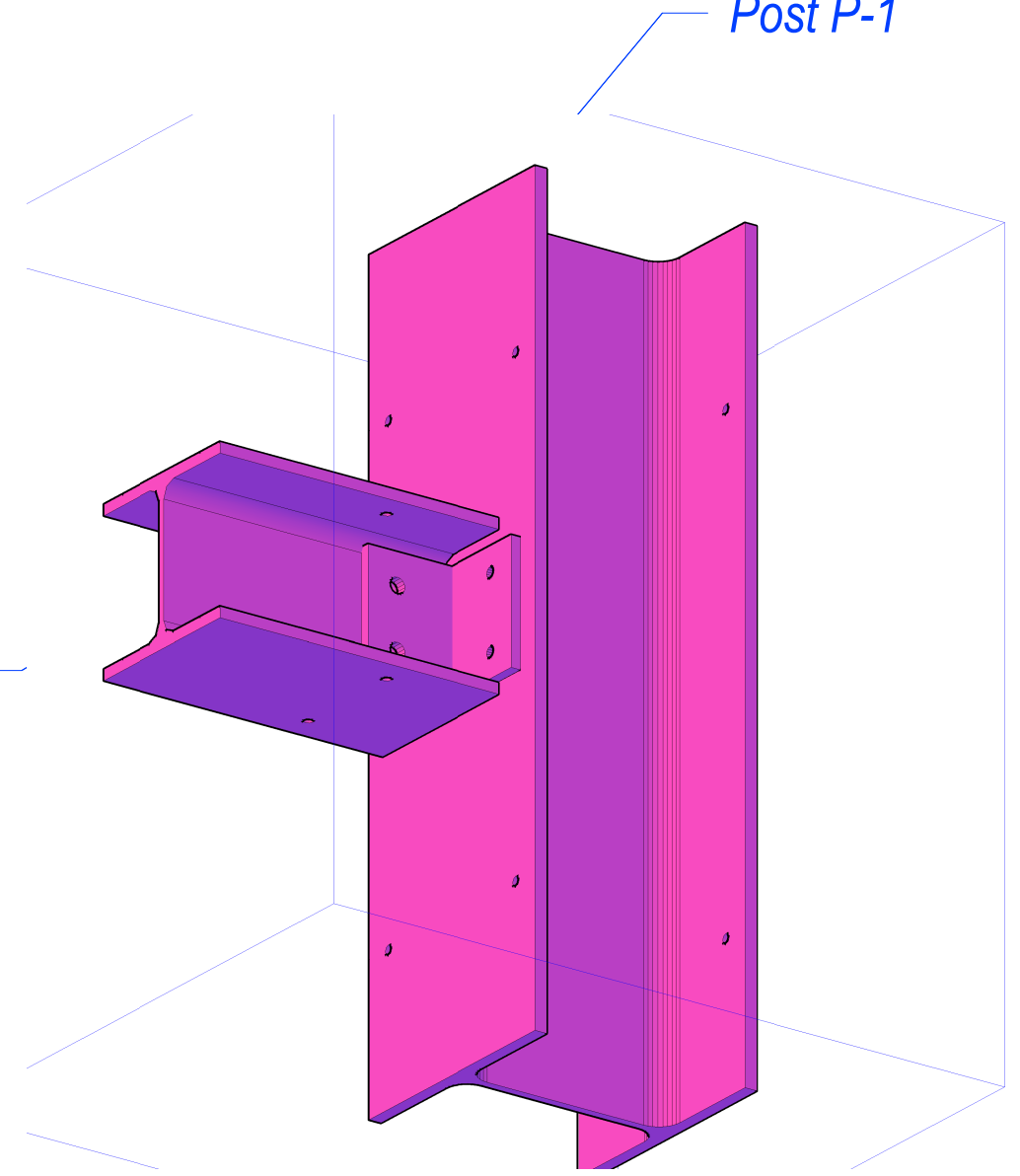


Number: T-2 (1015)
QTY: 1



Tala T-2

Post P-1

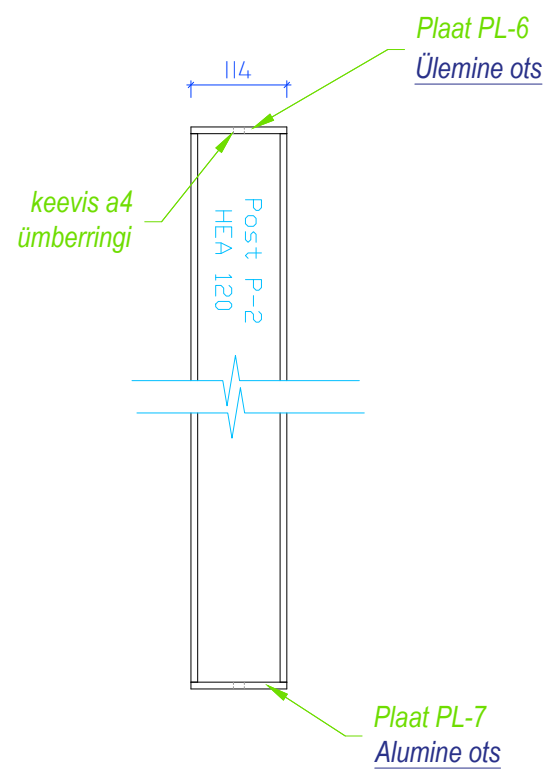
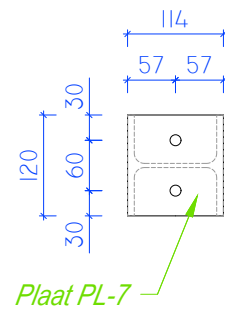
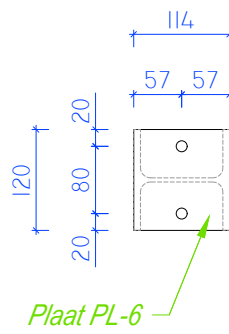
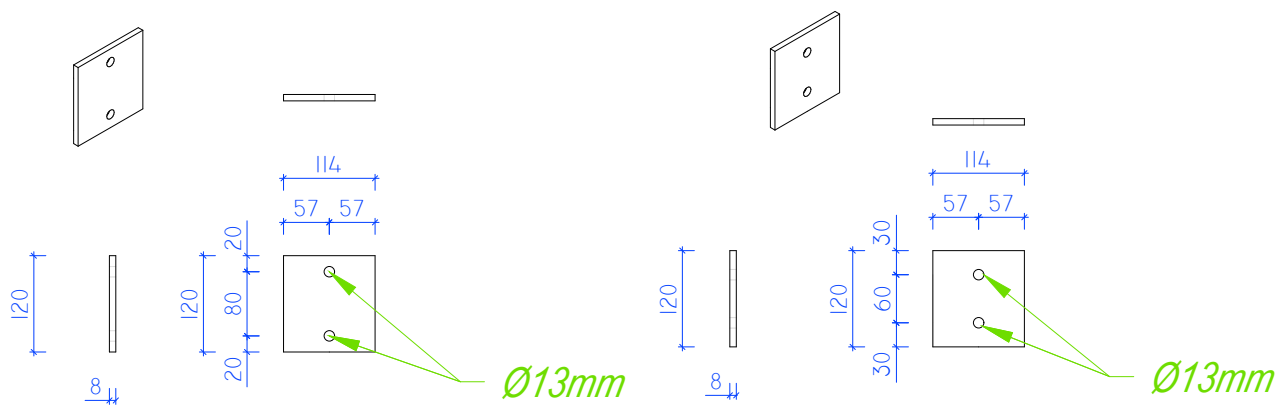
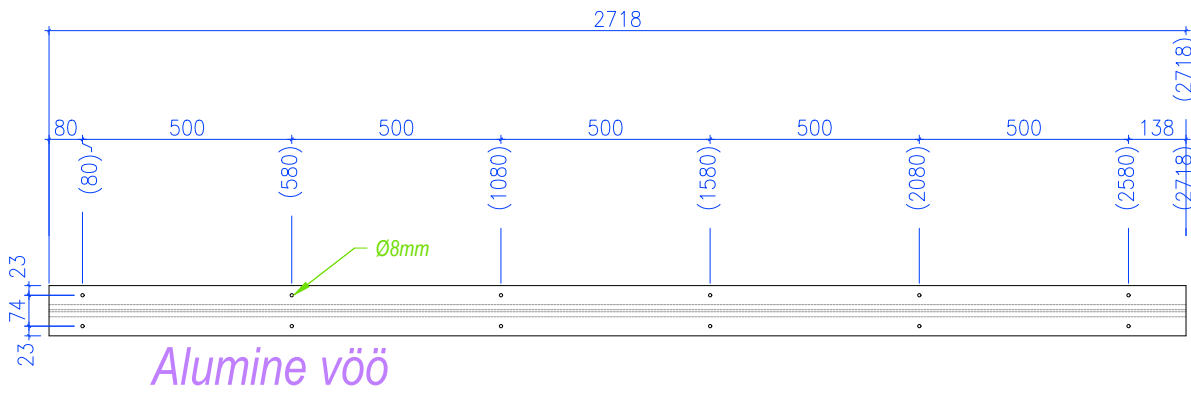
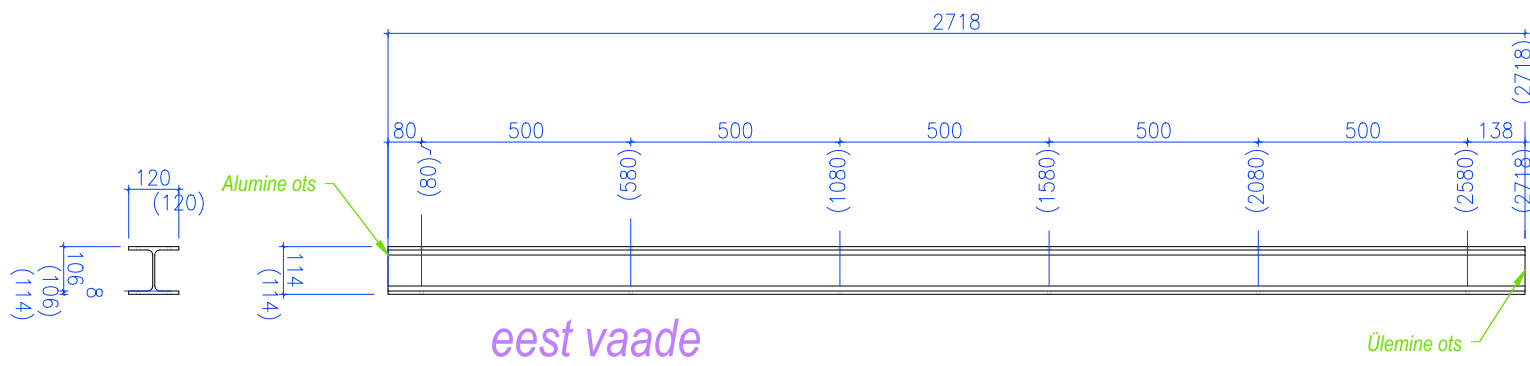
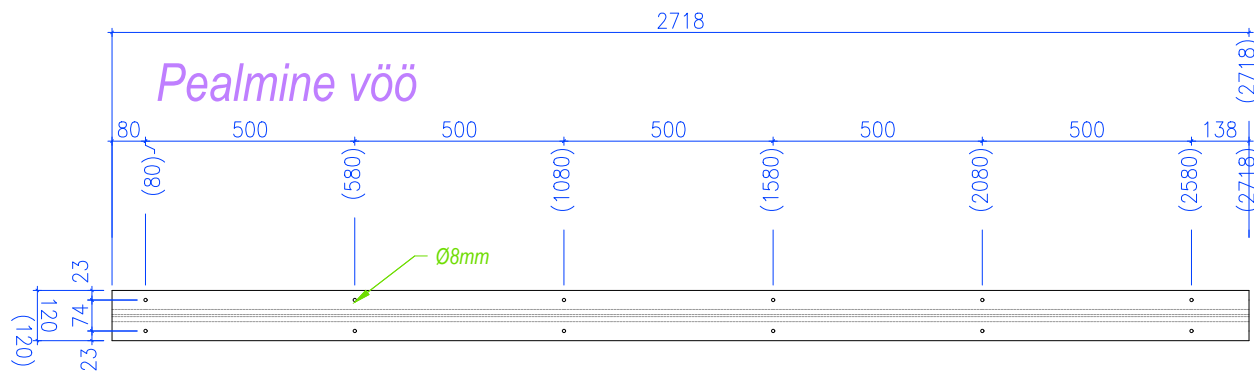
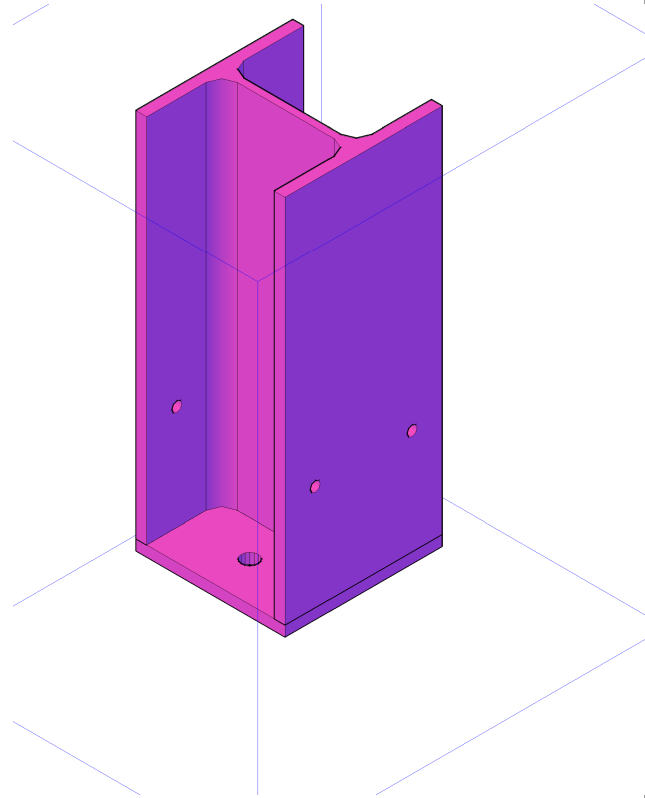
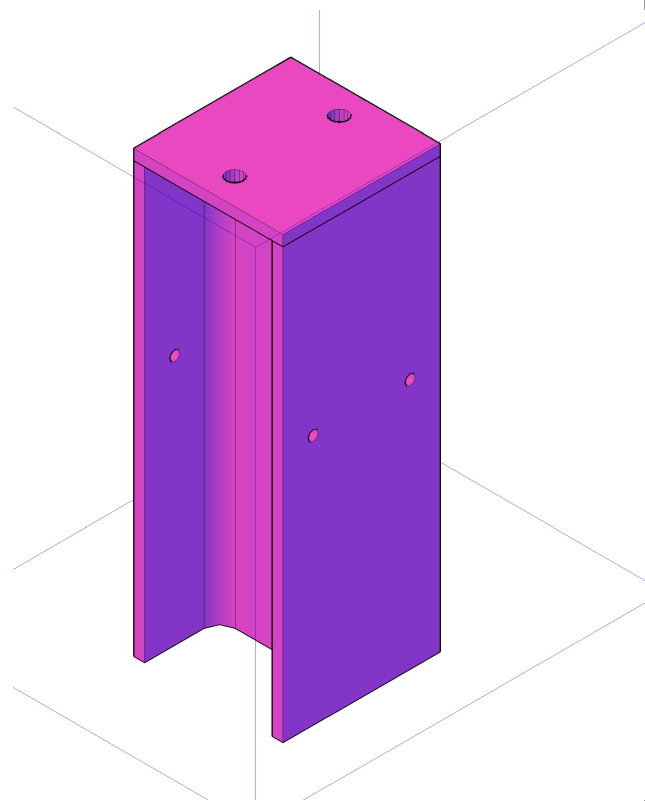
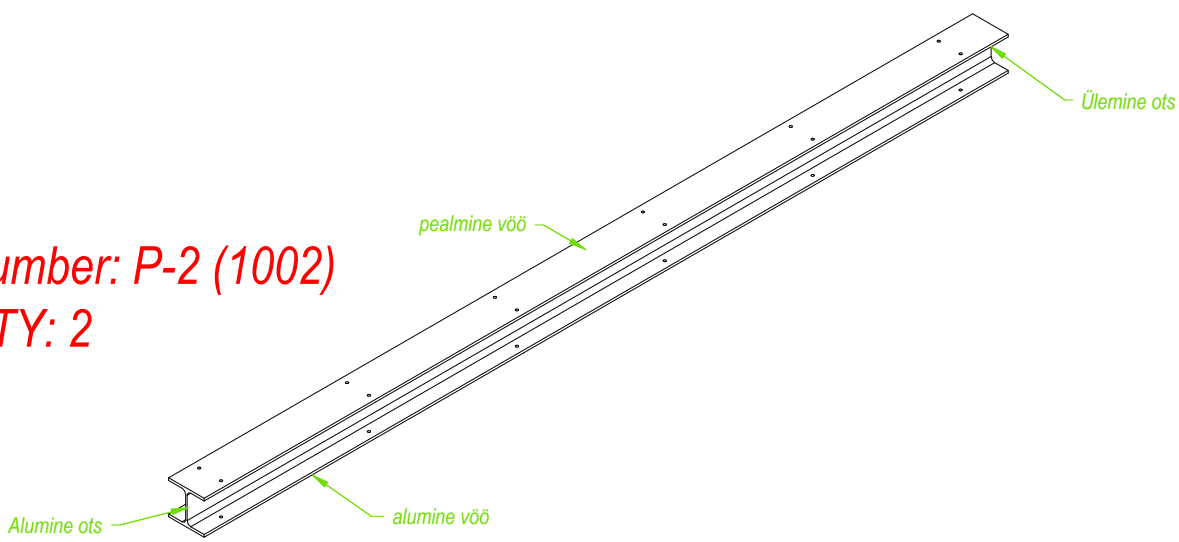


- MÄRKUSED:
- KÕIK KEEVISED a5
 - KESKKONNA SAASTEKLASS C-3
 - KRUNTIDA
 - PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

Tala T-2; 1tk
HEA 140

Kõikide terasdetailide klass on
S 355

Number: P-2 (1002)
QTY: 2



Number: PL-6 (1011)
QTY: 6

Number: PL-7 (1010)
QTY: 2

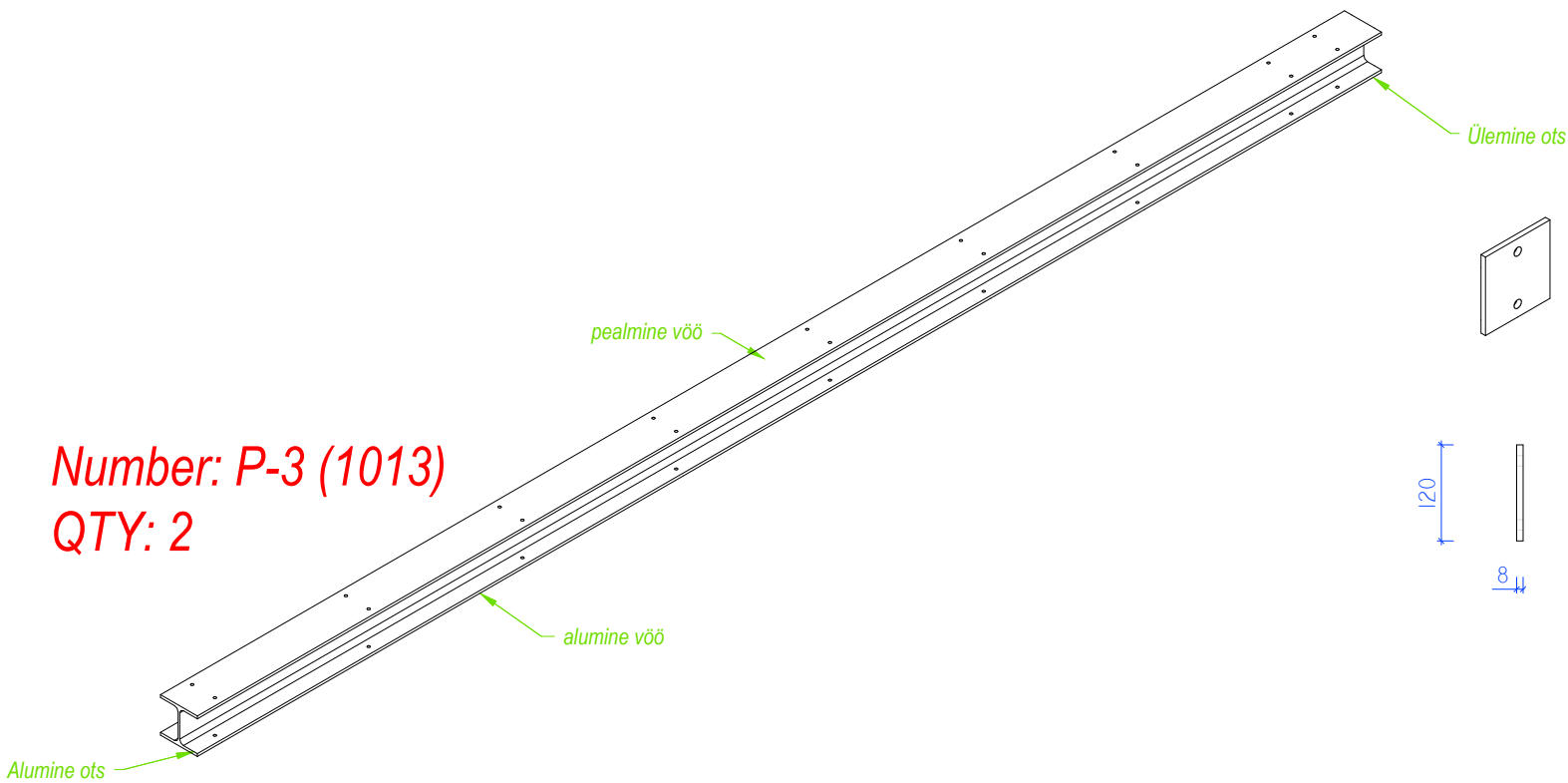
MÄRKUSED:

- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

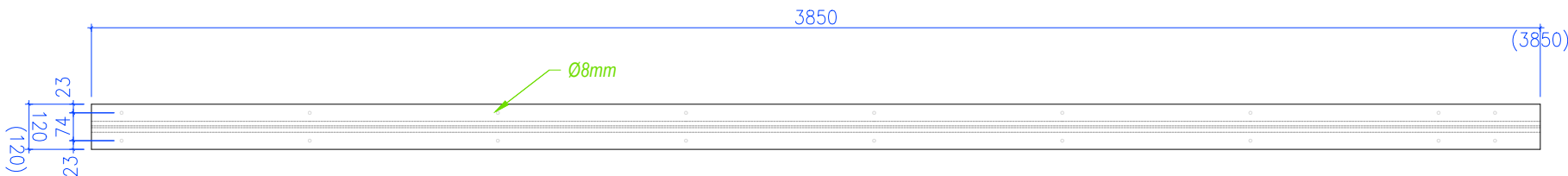
Post P-2; 2tk
HEA 120

Kõikide terasdetailide klass on S 355

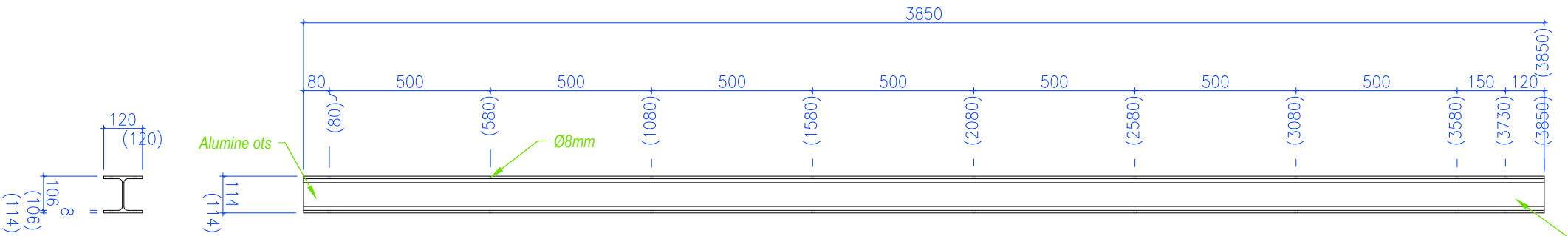
Number: P-3 (1013)
QTY: 2



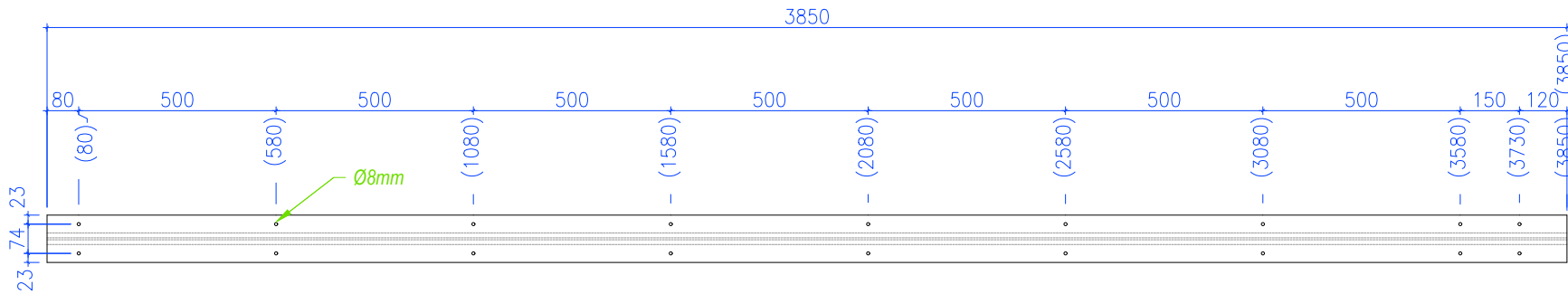
Number: PL-6 (1011)
QTY: 6



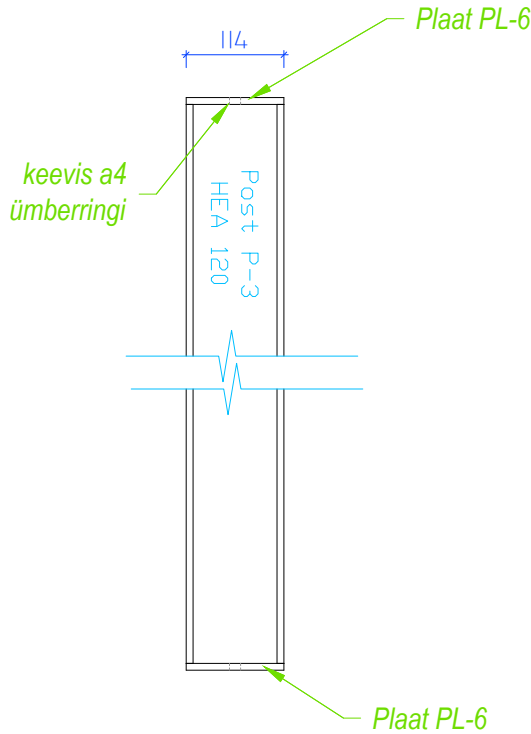
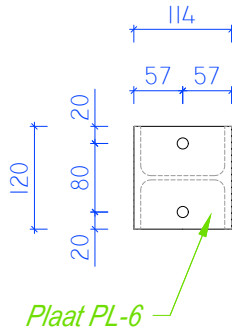
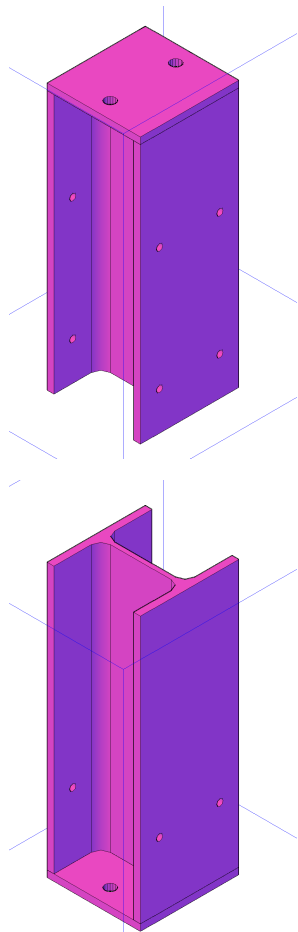
Pealmine vöö



eest vaade



Alumine vöö



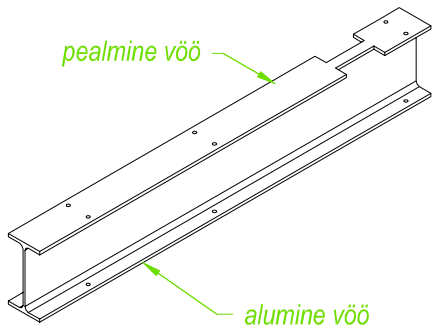
MÄRKUSED:

- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

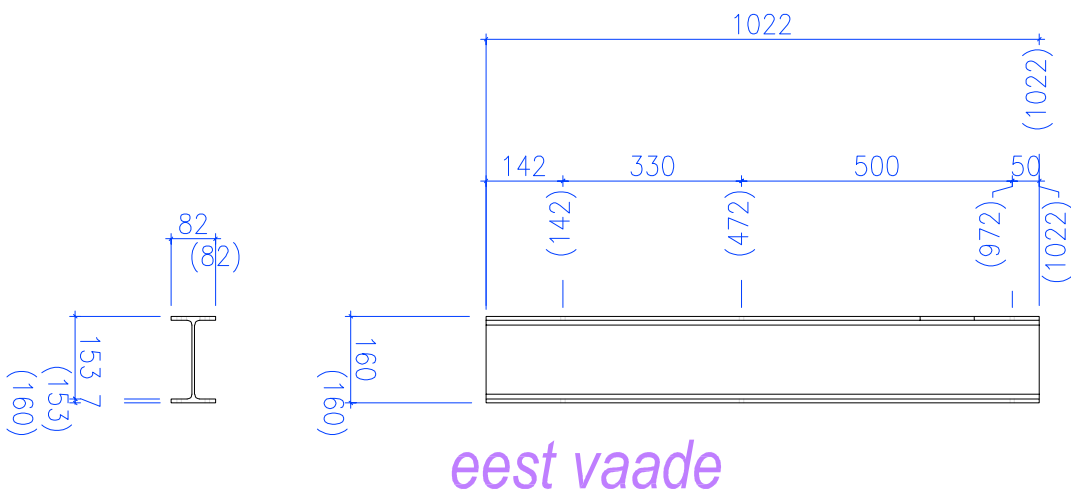
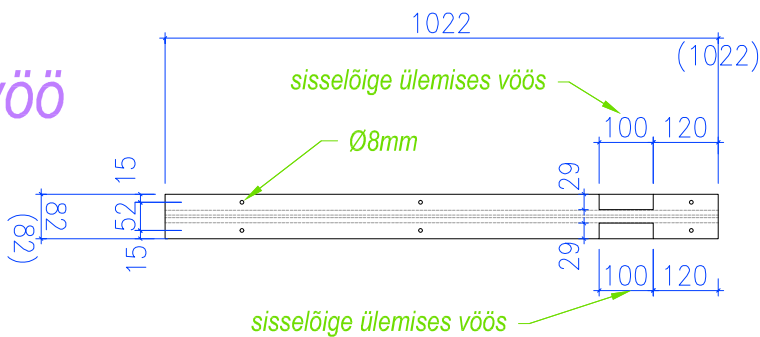
Post P-3; 2tk
HEA 120

Kõikide terasdetailide klass on
S 355

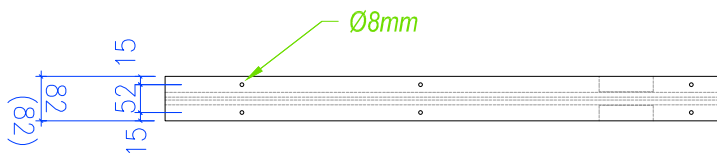
Number: T-4 (1022)
QTY: 2



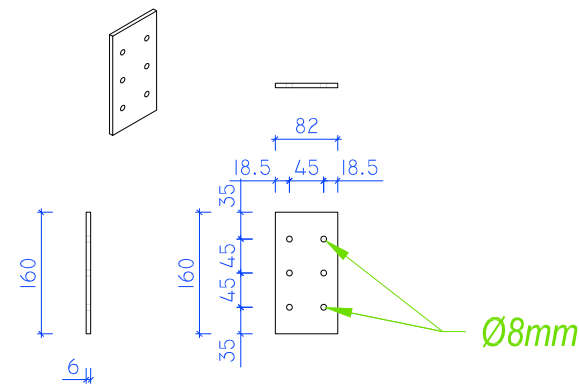
Pealmine vöö



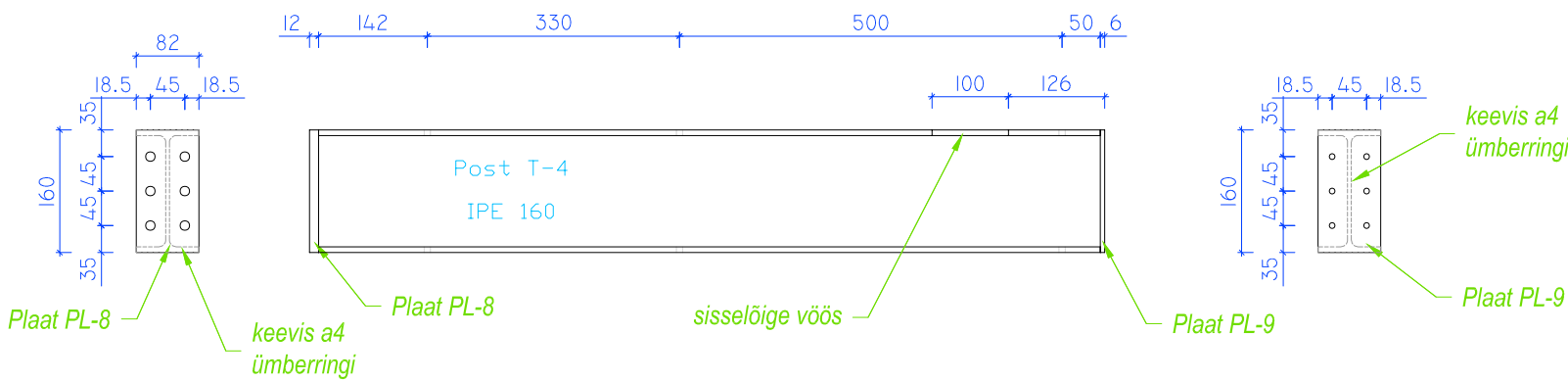
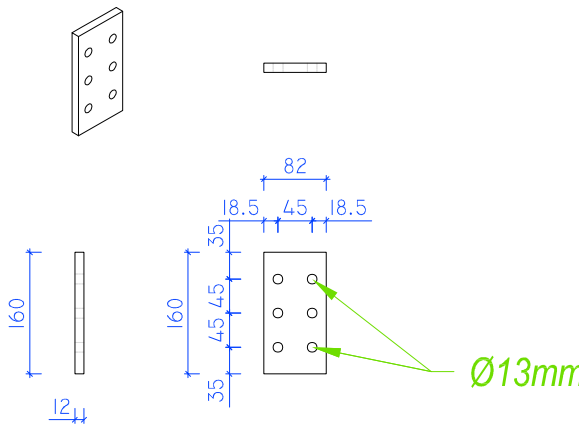
Alumine vöö



Number: PL-9 (1020)
QTY: 2



Number: PL-8 (1021)
QTY: 2



Plaat PL-8

Plaat PL-9

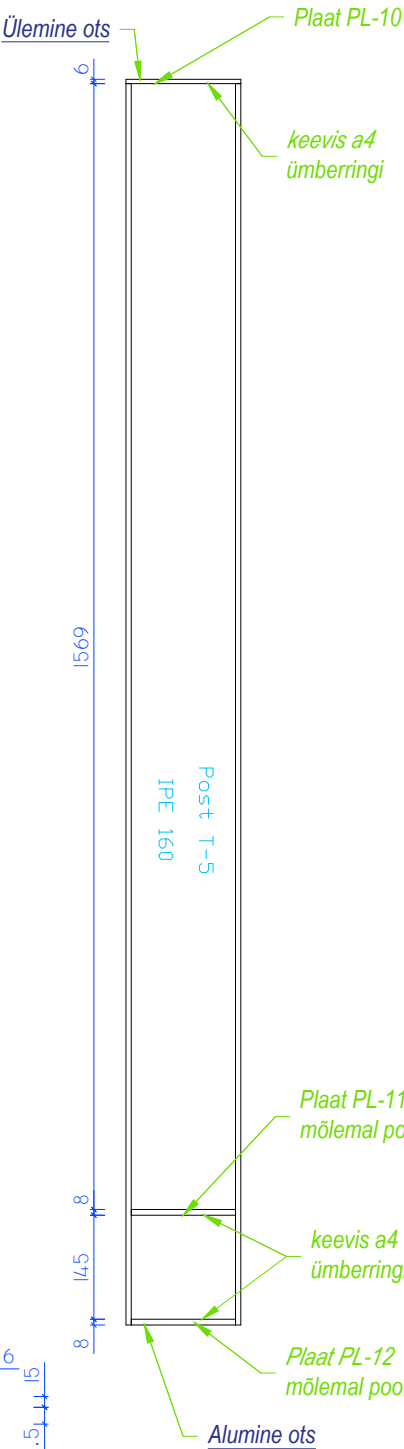
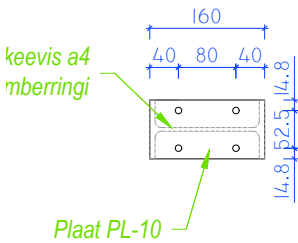
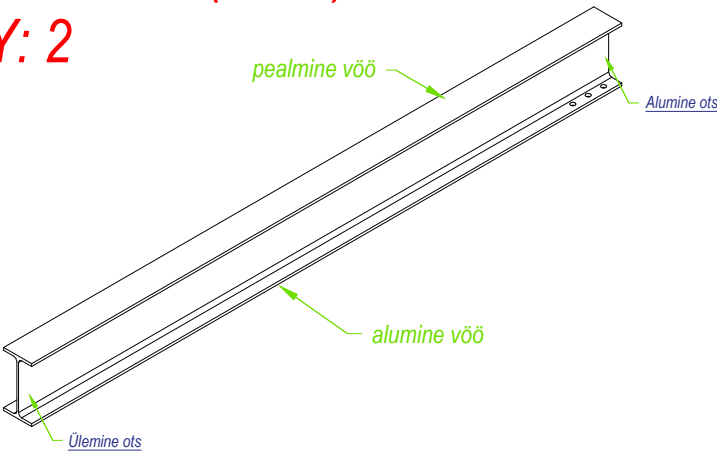
MÄRKUSED:

- KÕIK KEEVISED a5, kui ei ole märgitud teisiti
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

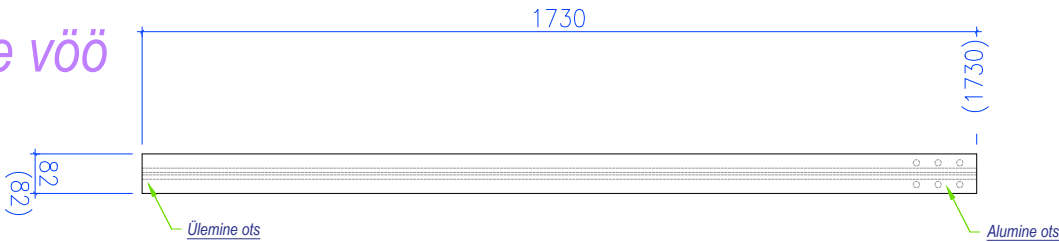
Tala T-4; 2tk
IPE 160

Kõikide terasdetailide klass on
S 355

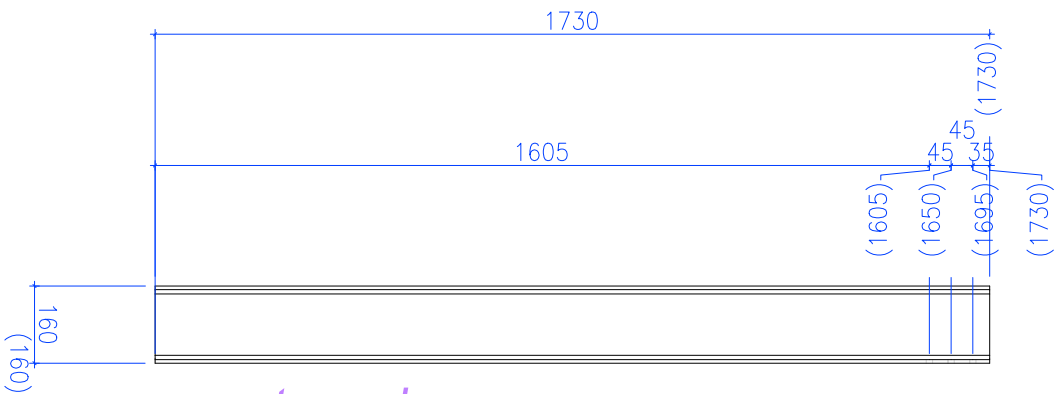
Number: T-5 (1019)
QTY: 2



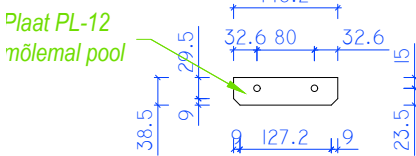
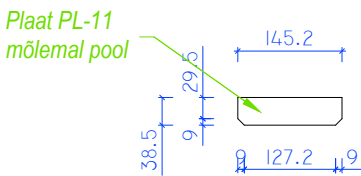
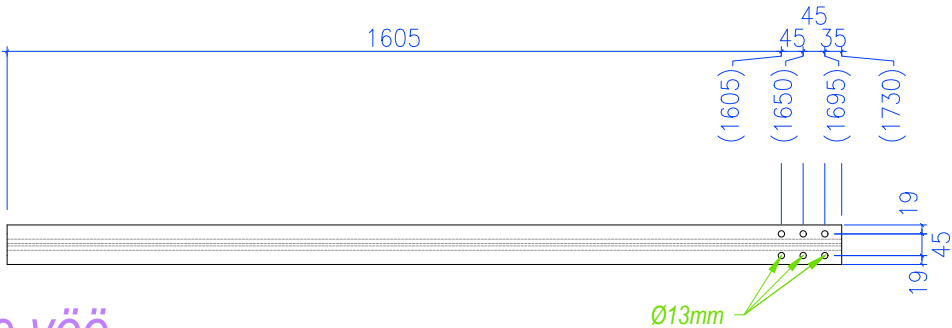
Pealmine vöö



eest vaade



Alumine vöö

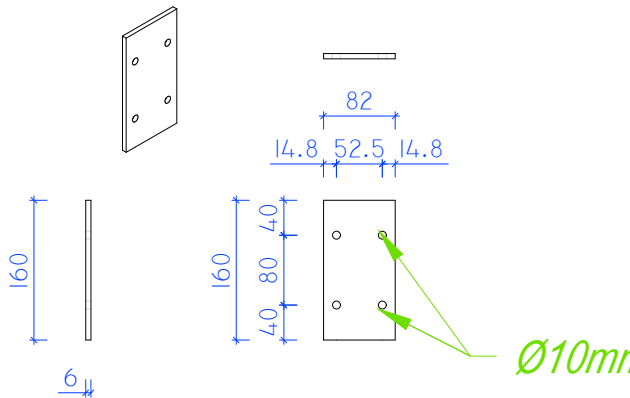


Plaat PL-11 mõlemal pool

keevis a4 ümberringi

Plaat PL-12 mõlemal pool

Alumine ots

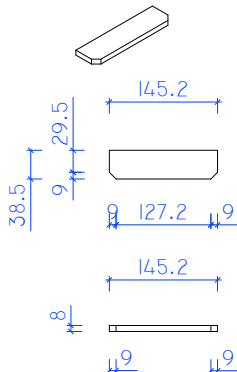


Number: PL-10 (1018)
QTY: 2

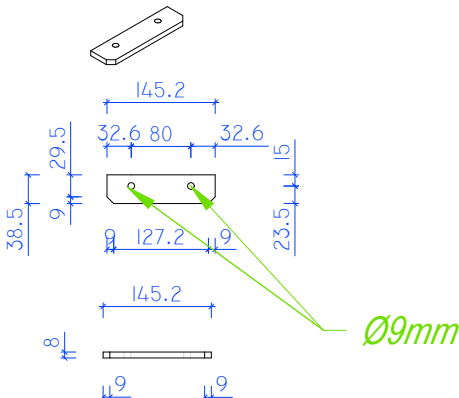
Plaat PL-10

Plaat PL-11

Plaat PL-12



Number: PL-11 (1012)
QTY: 4



Number: PL-12 (1017)
QTY: 4

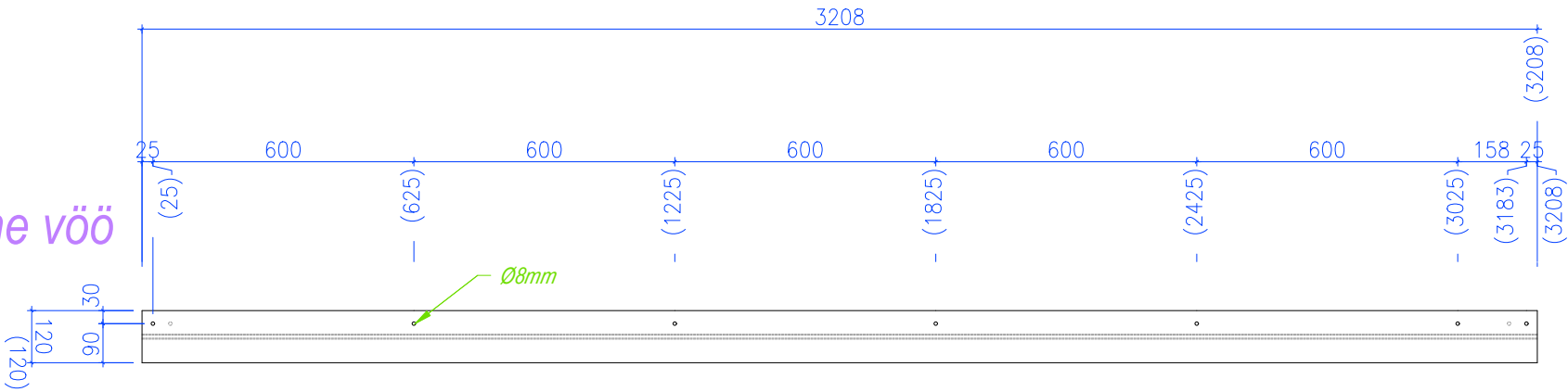
MÄRKUSED:

- KÕIK KEEVISED a5, kui ei ole märgitud teisiti
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

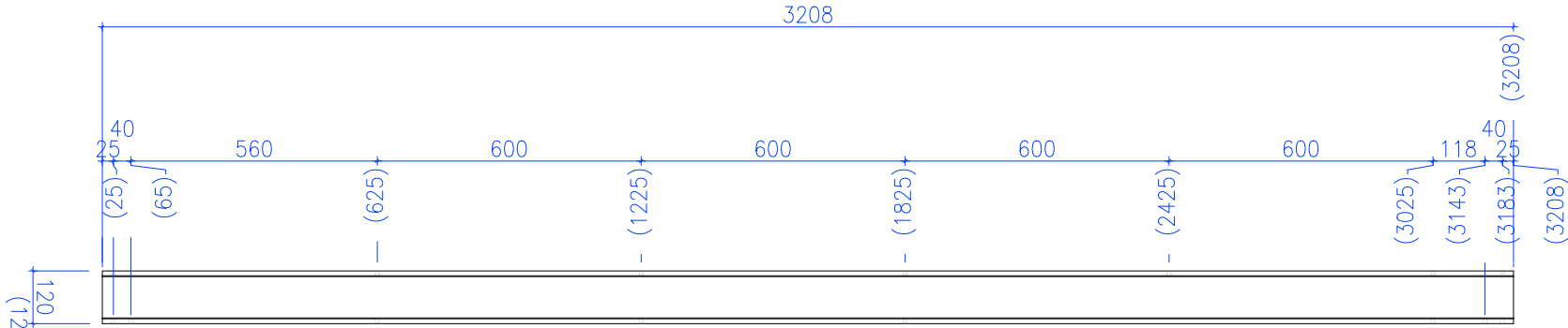
Tala T-5; 2tk
IPE 160

Kõikide terasdetailide klass on
S 355

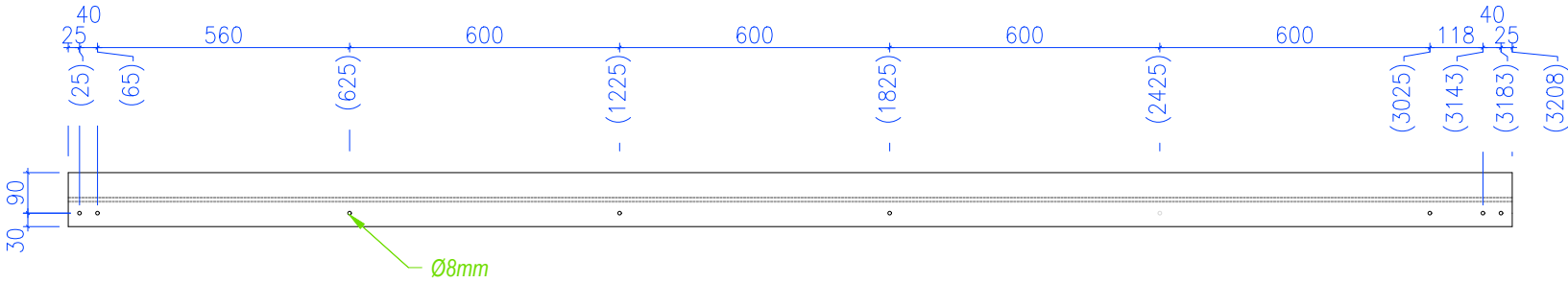
Pealmine vöö



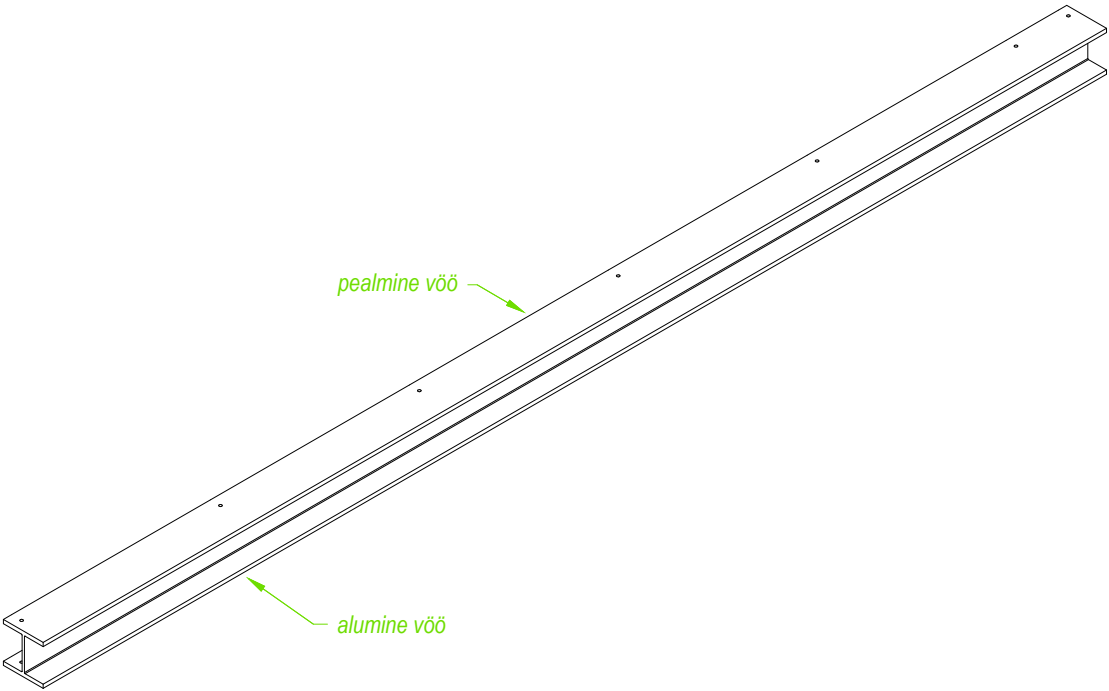
eest vaade



Alumine vöö



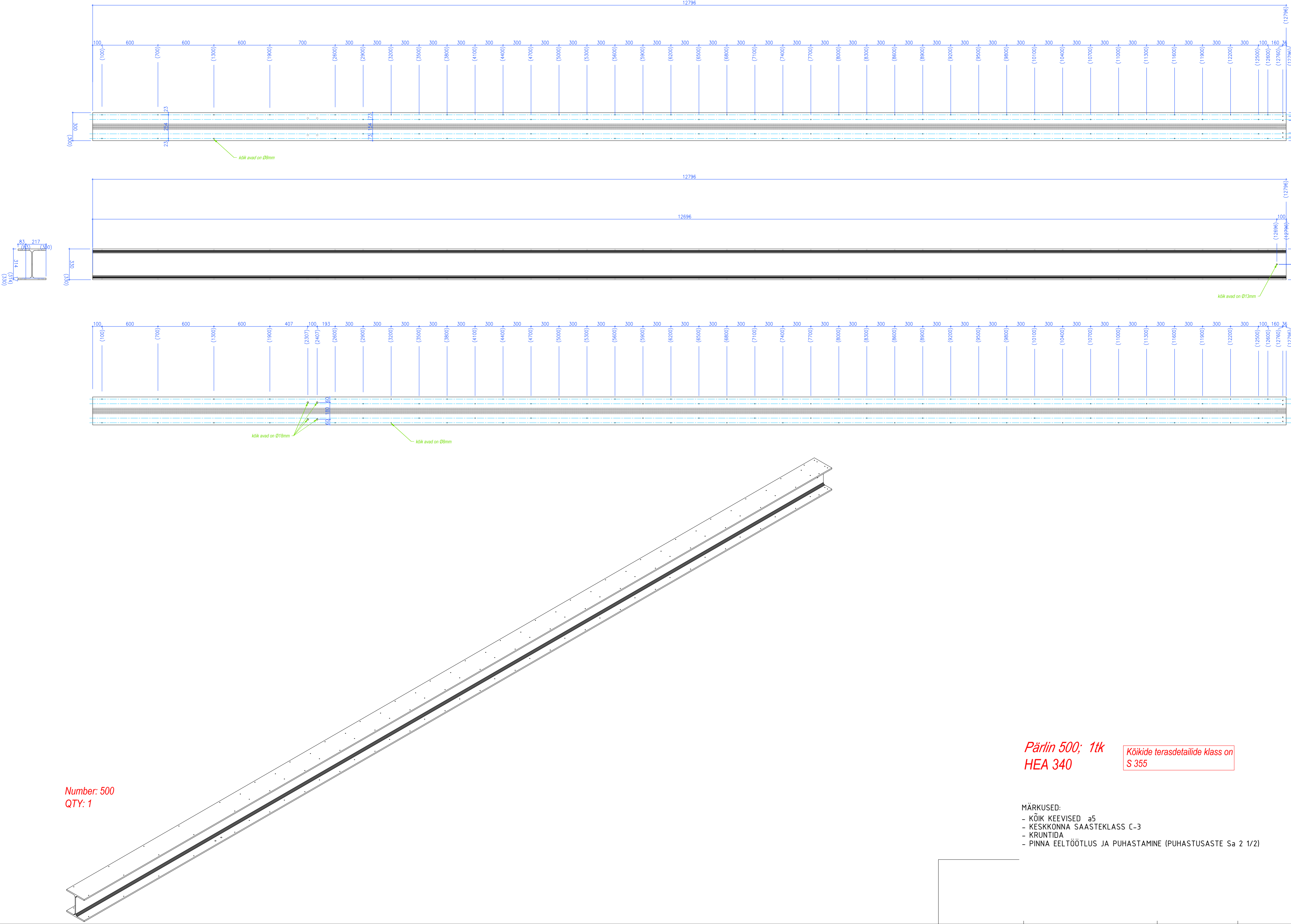
Number: 050
QTY: 1



Tala 050; 1tk
HEB 120

Kõikide terasdetailide klass on
S 355

- MÄRKUSED:
- KÕIK KEEVISED a5
 - KESKKONNA SAASTEKLASS C-3
 - KRUNTIDA
 - PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)



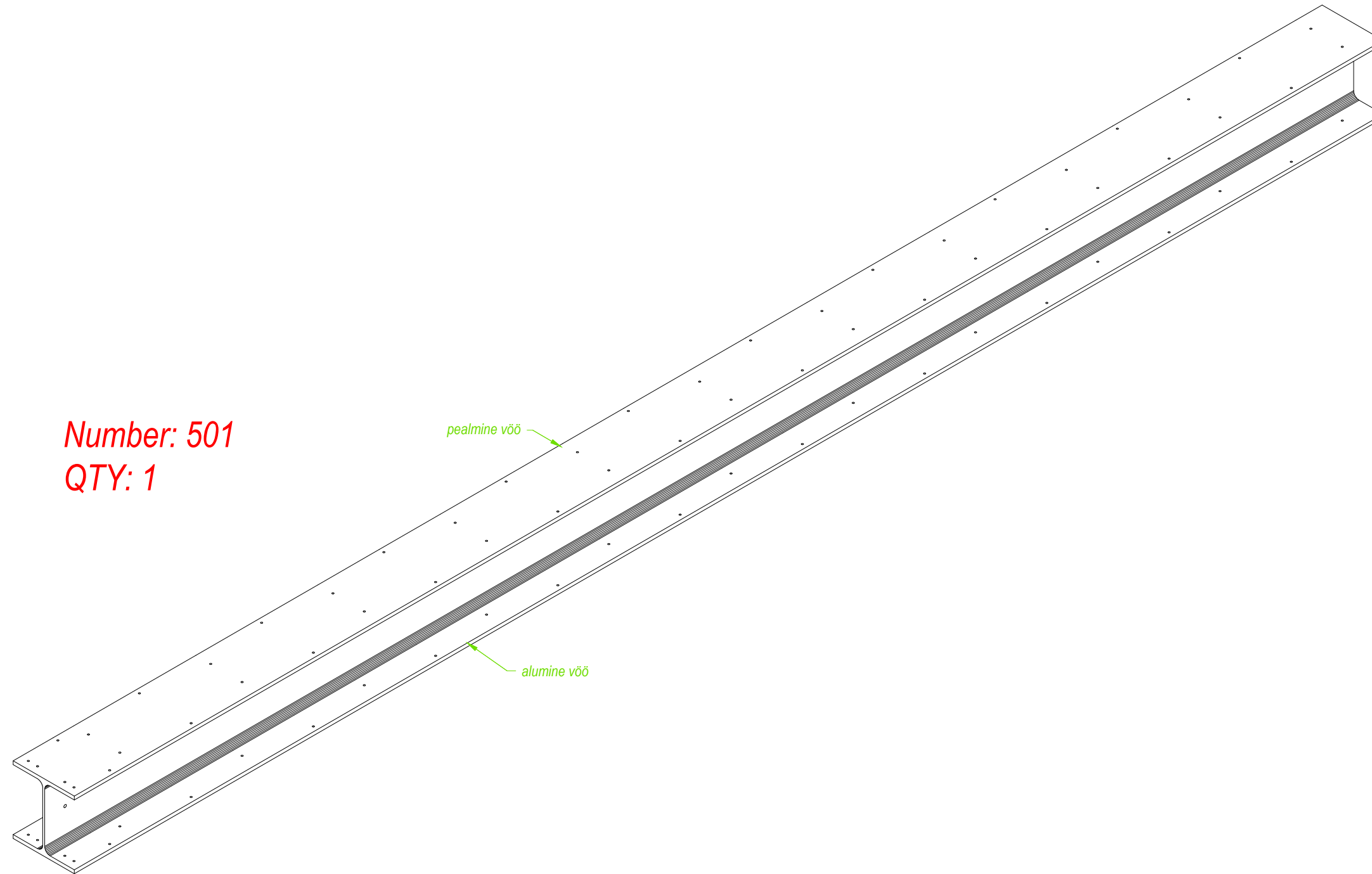
Number: 500
QTY: 1

Pärilin 500; 1tk
HEA 340

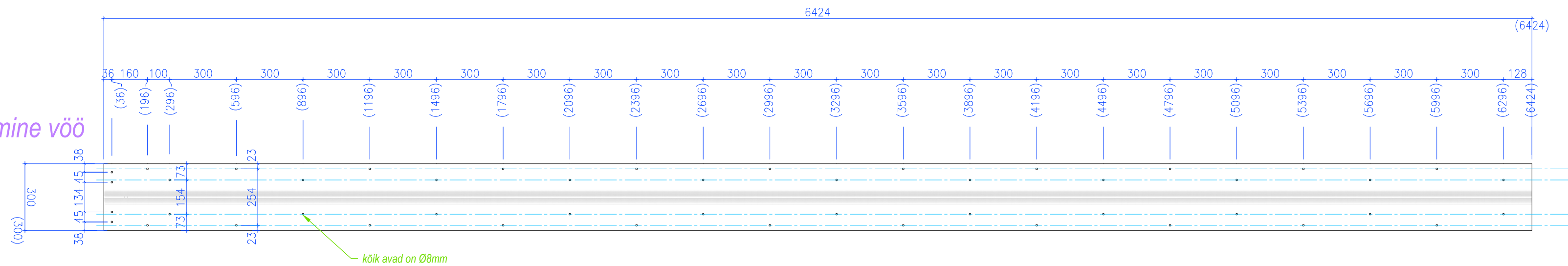
Kõikide terasdetailide klass on
S 355

MÄRKUSED:
- KÕIK KEEVISED a5
- KESKKONNA SAASTEKLASS C-3
- KRUNTIDA
- PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

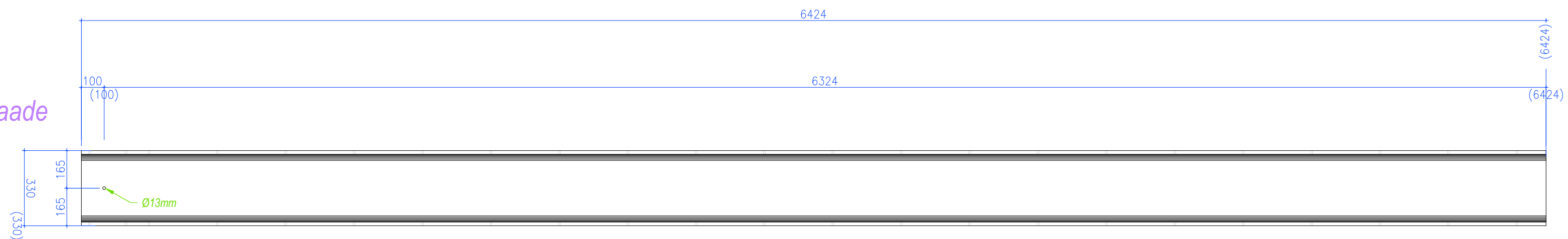
Number: 501
QTY: 1



Pealmine vöö



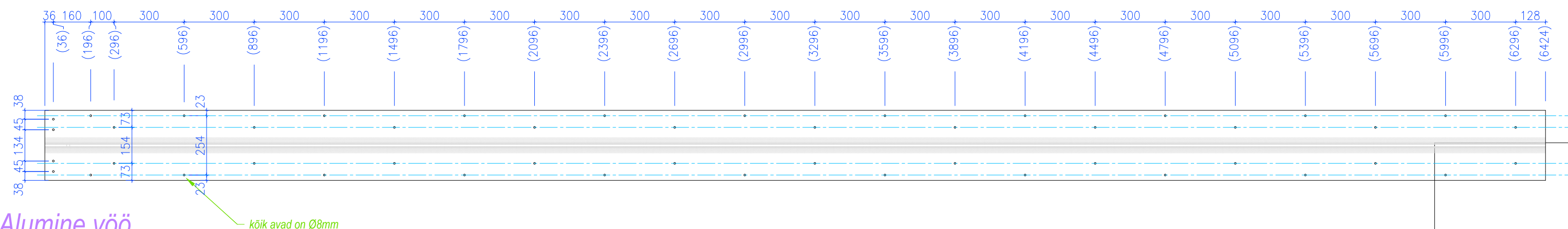
eest vaade

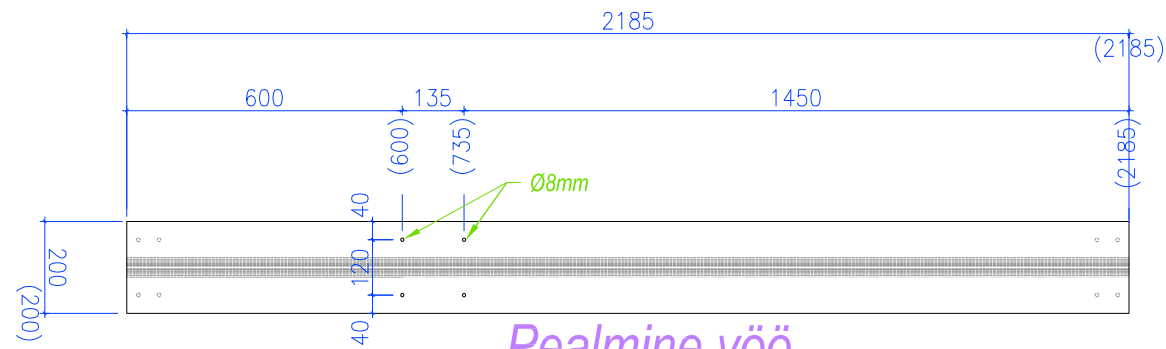
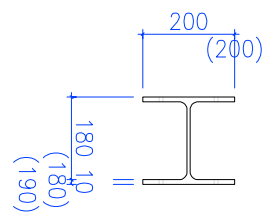


Pärlin 501; 1tk
HEA 340

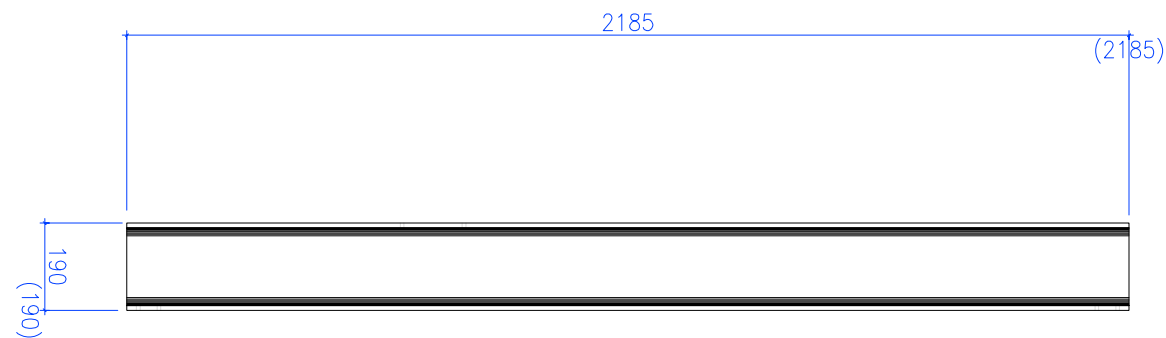
Kõikide terasdetailide klass on S 355

Alumine vöö

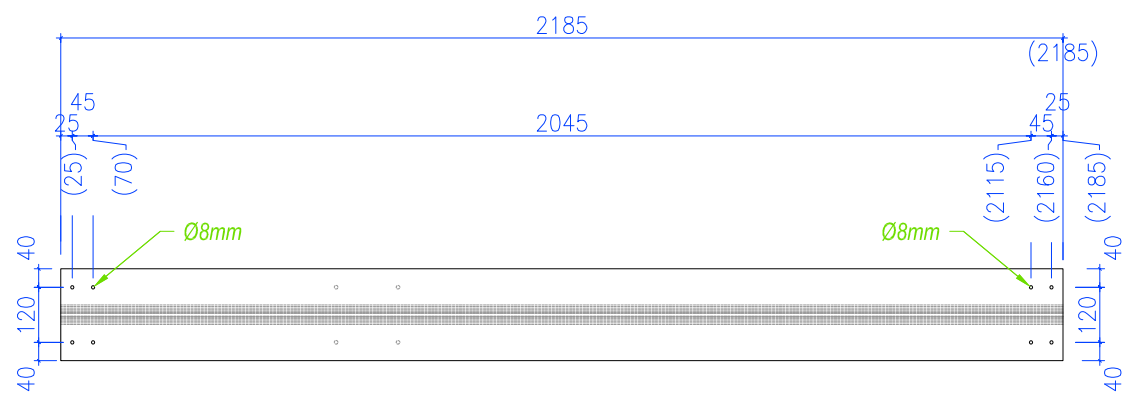




Pealmine vöö

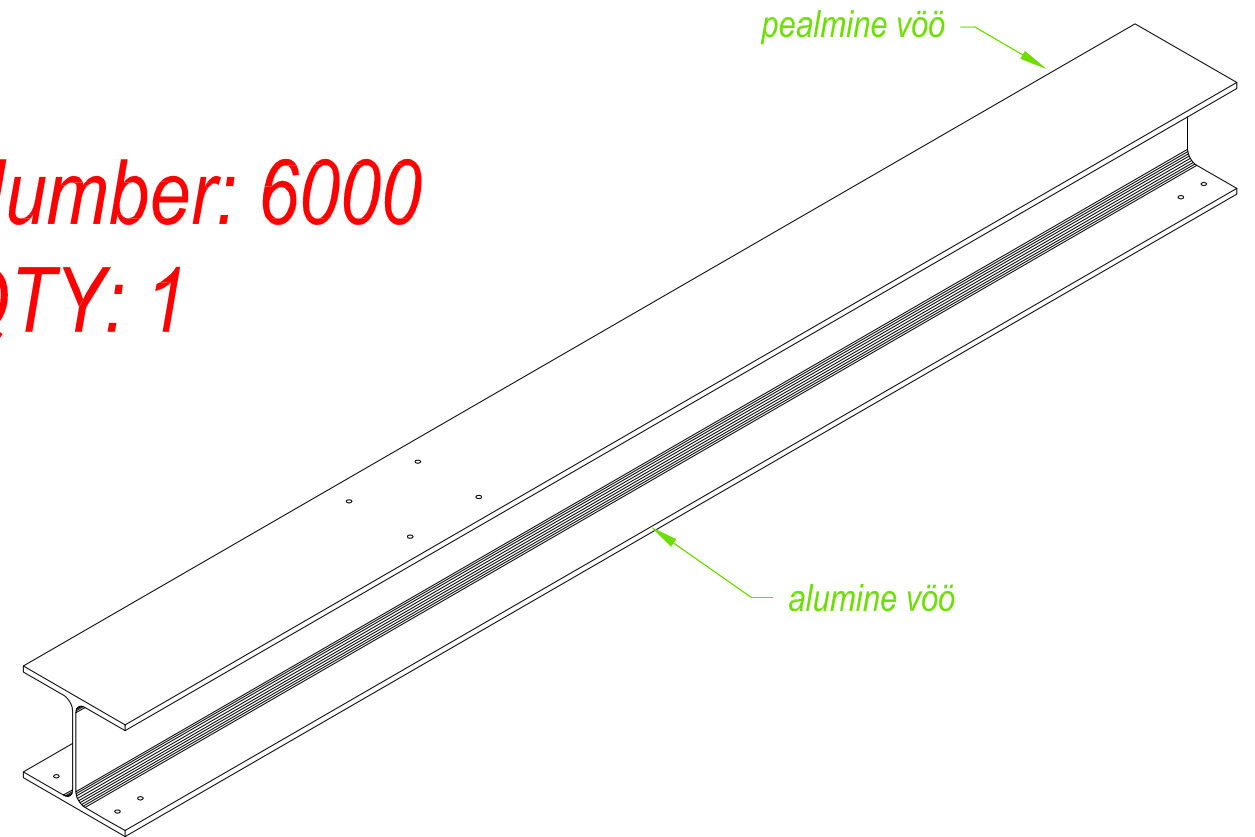


eest vaade



Alumine vöö

Number: 6000
QTY: 1

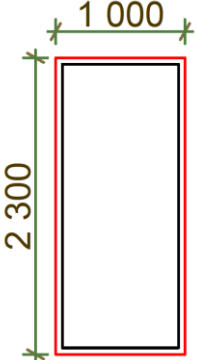
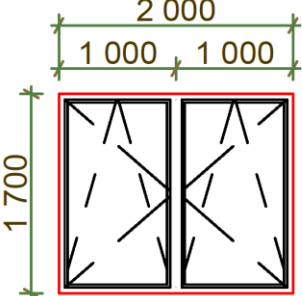
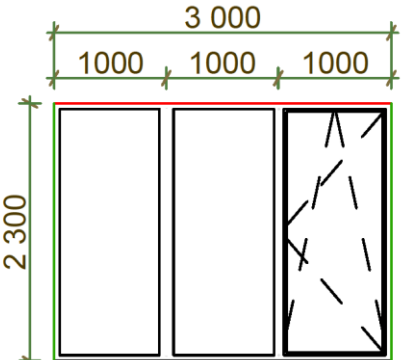


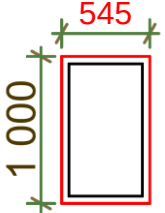
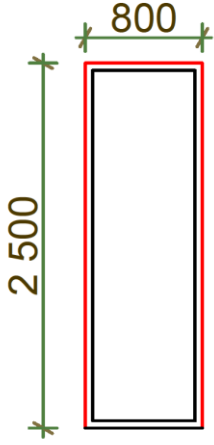
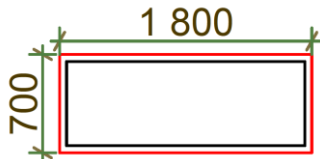
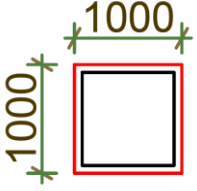
Tala 6000; 1tk
HEA 200

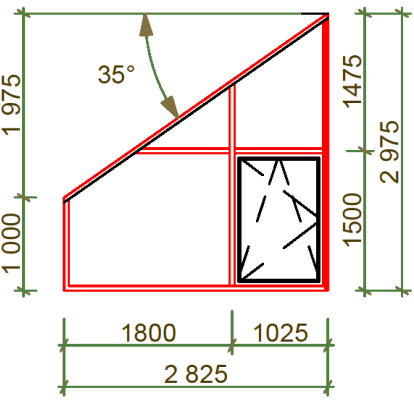
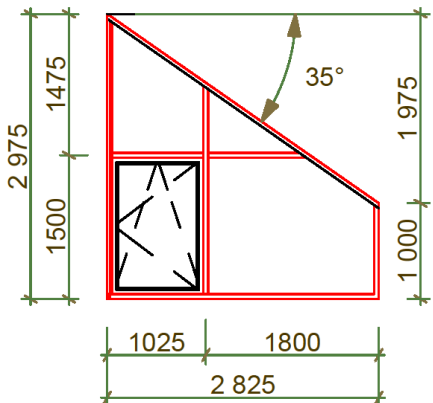
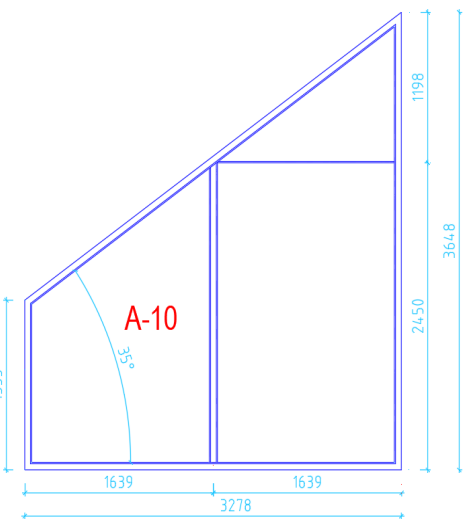
Kõikide terasdetailide klass on
S 355

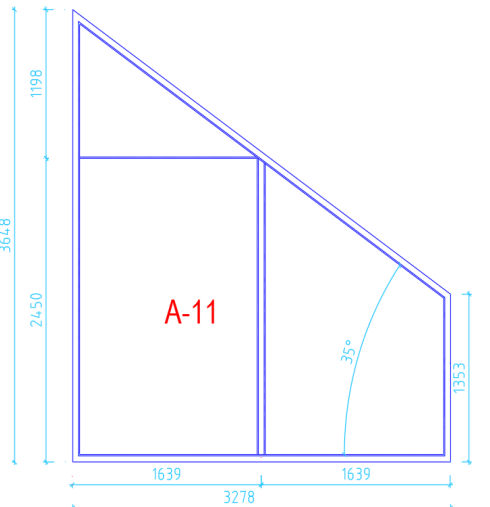
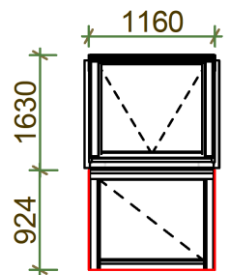
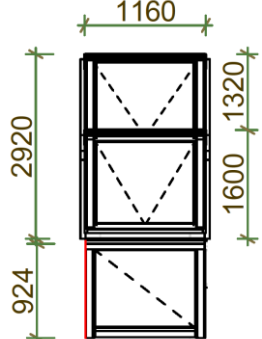
- MÄRKUSED:
- KÕIK KEEVISED a5
 - KESKKONNA SAASTEKLASS C-3
 - KRUNTIDA
 - PINNA EELTÖÖTLUS JA PUHASTAMINE (PUHASTUSASTE Sa 2 1/2)

AR.2.01 AKENDE SPETSIFIKATSIOON

1	ESKIIS 2	AVA MÕÕT Aknaava seinas (l x h) mm 3	KOGUS 4	5	MÄRKUS 6
A - 1		1000x2300	I korr.-1 tk. 1 aken mitteavatav	1 tk.	Mitteavatav aken. Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176 EI 30
A - 2		2000x1700	I korr.-1 tk. .	1 tk.	Pöördavatav aken. Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176 EI 30
A - 3		3000x2300	I korr.- 1tk. .	1 tk.	2 akent Mitteavatav, 1 avatav klaasrõdu-uks. (paremakäeline avatavus) Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176 EI 30

A - 4		545x1000	I korr.- 2tk.	2 tk.	Mitteavatav aken. Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176
A - 5		800x2500	I korr.- 3tk.	3 tk.	Mitteavatav aken. Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176
A - 6		1800x700	I korr.- 1tk.	1 tk.	Mitteavatav aken. Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176 (garaazi aken)
A - 7		1000x1000	I korr.- 1tk.	1 tk.	Mitteavatav aken. Raam:-väljast - seest tumehall Klaaspakett 4SKN176 (garaazi aken)

A – 8		2825x2975	II korr.- 1tk.	1 tk.	Kolmnurkne aken, Kolm klaasi osa kinnised, üks osa avatav (vasakukäeline avatavus) Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176
A – 9		2825x2975	II korr.- 1tk.	1 tk.	Kolmnurkne aken, Kolm klaasi osa kinnised, üks osa avatav (paremakäeline avatavus) Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176
A – 10		3278x3648	II korr.- 1tk.	1 tk.	Kolmnurkne aken, Mitteavatav aken, kolme klaasiga Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176

A – 11		3278x3648	II korr.- 1tk.	1 tk.	Kolmnurkne aken, Mitteavatav aken, kolme klaasiga Raam:- seest valge, väljast tumehall Klaaspakett 4SKN176
A – 12		1160x1630 + 1160x 924 (mõõdud täpsustada kohapeal)	II korr.- 2tk.	2 tk.	Katuseaken, Alumina pool mitteavatav, Ülemine pool avatav Raam:- seest valge, väljast tumehall
A – 13		1160x2920 + 1160x 924 (mõõdud täpsustada kohapeal)	II korr.- 1tk.	1 tk.	Katuseaken, Alumina pool mitteavatav, Ülemine pool avatav Raam:- seest valge, väljast tumehall

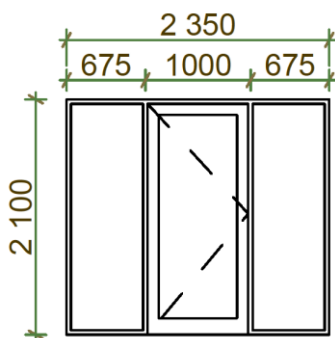
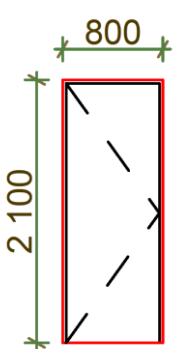
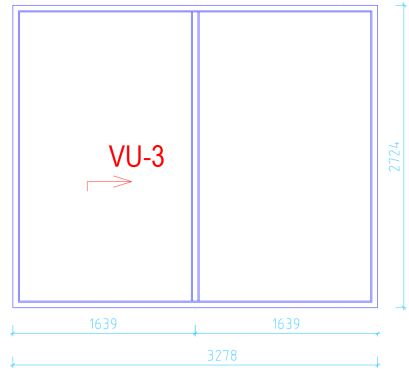
MÄRKUS :

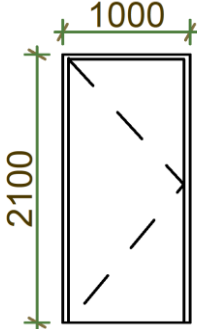
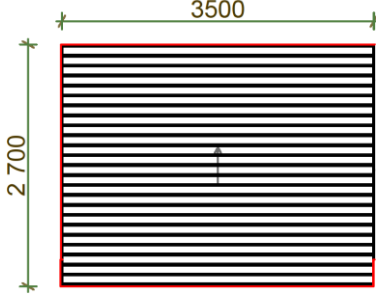
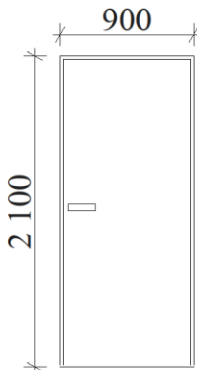
NB! JOONISED ON KOOSTATUD HINNAPAKKUMISEKS!

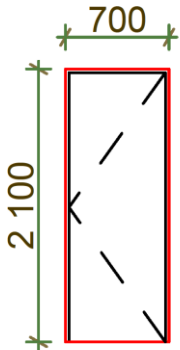
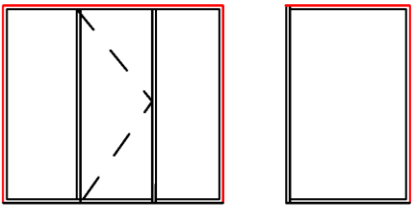
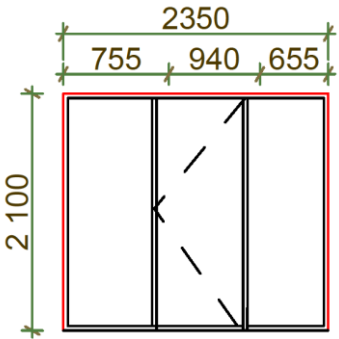
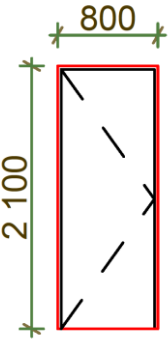
JOONISED ON KOOSTATUD VAATEGA VÄLJASTPOOLT SISSE.

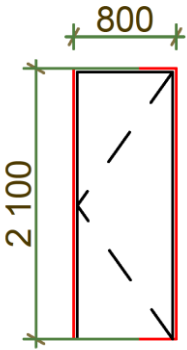
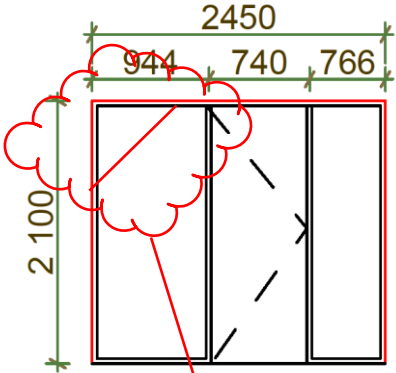
KÕIKIDE AKENDE AVATAVUS JA SUUNAD TÄPSUSTADA TELLIJAGA.

USTE SPETSIFIKATSIOON

1	ESKIIS	AVA MÕÖT- Ukseava sein 3 (l x h) mm	KOGUS	5	MÄRKUS
VU-1		2350x2100	I korr.-1 tk. 1 tk vasaku- käeline	1 tk.	Klaas-välisuks, kahel pool mitteavatavad klaasid Klaaspakett 4SKN176 Raami Toon: seest valge, väljast tumehall Varustatud uksekingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom
VU-2		800x2100	I korr.-1 tk. 1 tk vasaku- käeline	1 tk.	Puit-välisuks Toon: tumehall . Turvalukuga. Varustatud uksekingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom
VU-3		3278x2724	I korr.- 2tk.	2 tk.	Klaas-lükanduks, teine pool klaasist mitteavatav. Raam:-seest valge, väljast tumehall Klaaspakett 4SKN176

VU-4		1000x2100	I korr.-1 tk. Garaaž 1 tk vasaku- käeline	1 tk.	Välisuks, garaaziuks Toon: tumehall Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom
VU-5		3500x2700	I korr.-1 tk. garaaz	1 tk.	Automaatselt avatav garaaziuks Toon: tumehall Tõstemehhanismiga, puldiga avatav.
U-1		900x2100	I korr.-2 tk II korr.-3 tk. . 1 tk parema- Käeline 4 tk vasaku- käeline	5 tk.	Sile siseuks, Tubades lävepakuga. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom . Toon täpsustada tellijaga
U-2		900x2100	I korr.-1 tk. 1 tk vasaku- käeline	1 tk.	Niiskuskindel uks Sile siseuks, Tuulutatava lävepakuga. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Seest liblikaga. Toon täpsustada tellijaga

U-3		700x2100	I korr.-1 tk. 1 tk vasaku-käeline	1 tk.	Sile wc siseuks Tuulutatava lävepakuga. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Lukustus Ühel pool liblikaga Toon täpsustada tellijaga
U-4		Võtta mõõdud kohapeal	I korr.-1tk. 1 tk vasaku-käeline	1tk.	Klaasist saunasein. Nurgaga Keskel saunauks, külgedel klaasid. Enne valmistamist võtta mõõdud kohapeal.
U-5		2350x2100	I korr.-1tk. 1 tk parema-käeline	1tk.	Klaasist esiku sein. Keskel uks, külgedel klaasid. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Enne valmistamist võtta mõõdud kohapeal.
U-6		800x2100	II korr.-1 tk. 1 tk vasaku-käeline	1 tk.	Sile wc siseuks Tuulutatava lävepakuga. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Ühel pool liblikaga Toon täpsustada tellijaga

U-7		800x2100	II korr.-1 tk. 1 tk parema- käeline	1 tk.	Sile wc siseuks Tuulutatava lävepakuga. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Ühel pool liblikaga Toon täpsustada tellijaga
U-8		2450x2100	II korr.-1tk. 1 tk vasaku- käeline	1tk.	Klaasist vannitoa sein. Keskel uks, külgedel klaasid. Varustatud ukselingiga, võtmega lukustatava lukuga. Lukusüdamik Assa Basic 1301 matt kroom Ühel pool liblikaga Enne valmistamist võtta mõõdud kohapeal.

kuna see nurk jooksed katuse kaldu osasse sisse, siis soovitus uks tellida peale elementide paigaldust!

MÄRKUS :

NB! JOONISED ON KOOSTATUD HINNAPAKKUMISEKS!

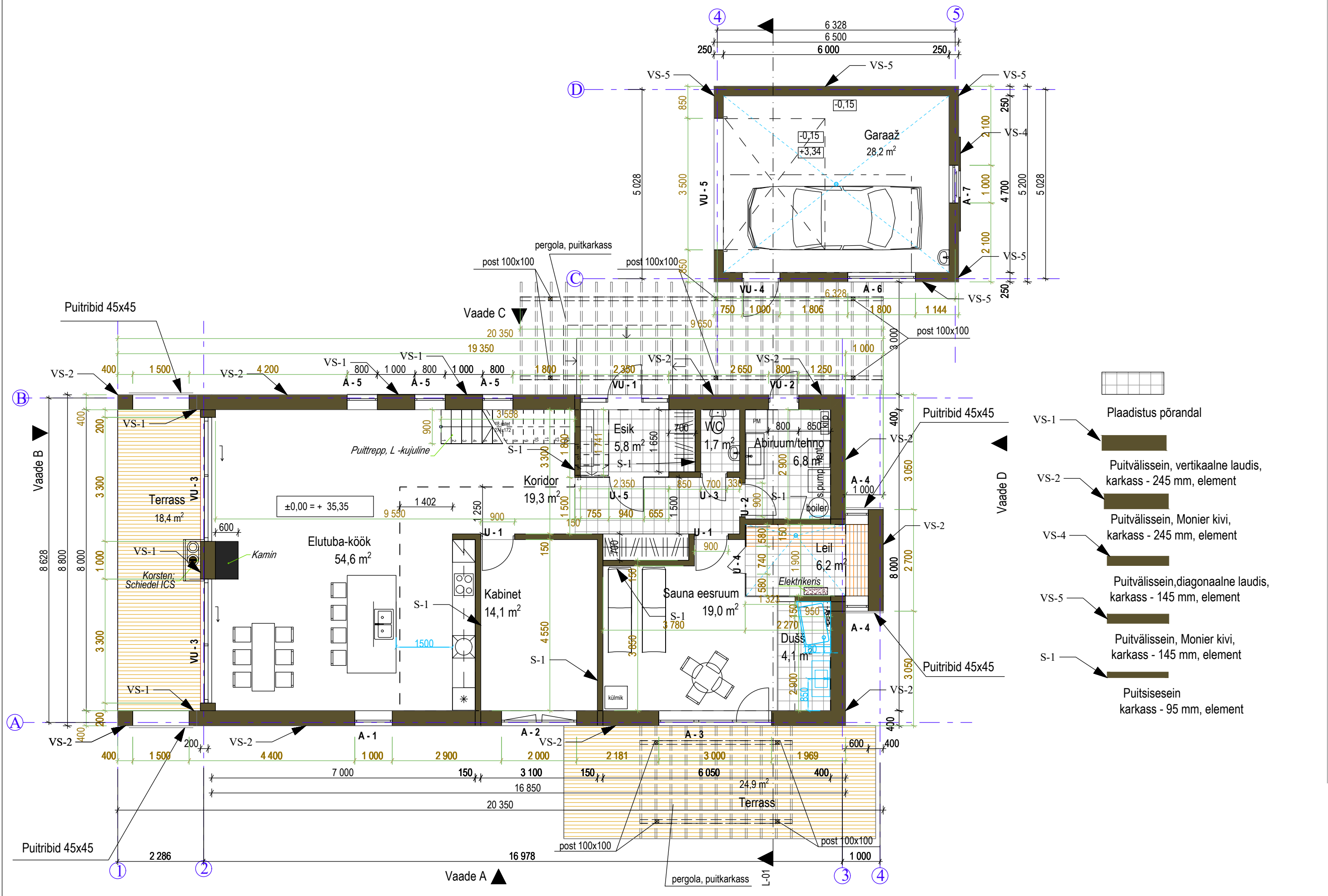
AVADE MÕÕDUD TULEB ENNE TEOSTAMIST TÄPSUSTADA KOHA PEAL!

JOONISED ON KOOSTATUD VAATEGA VÄLJASTPOOLT SISSE.

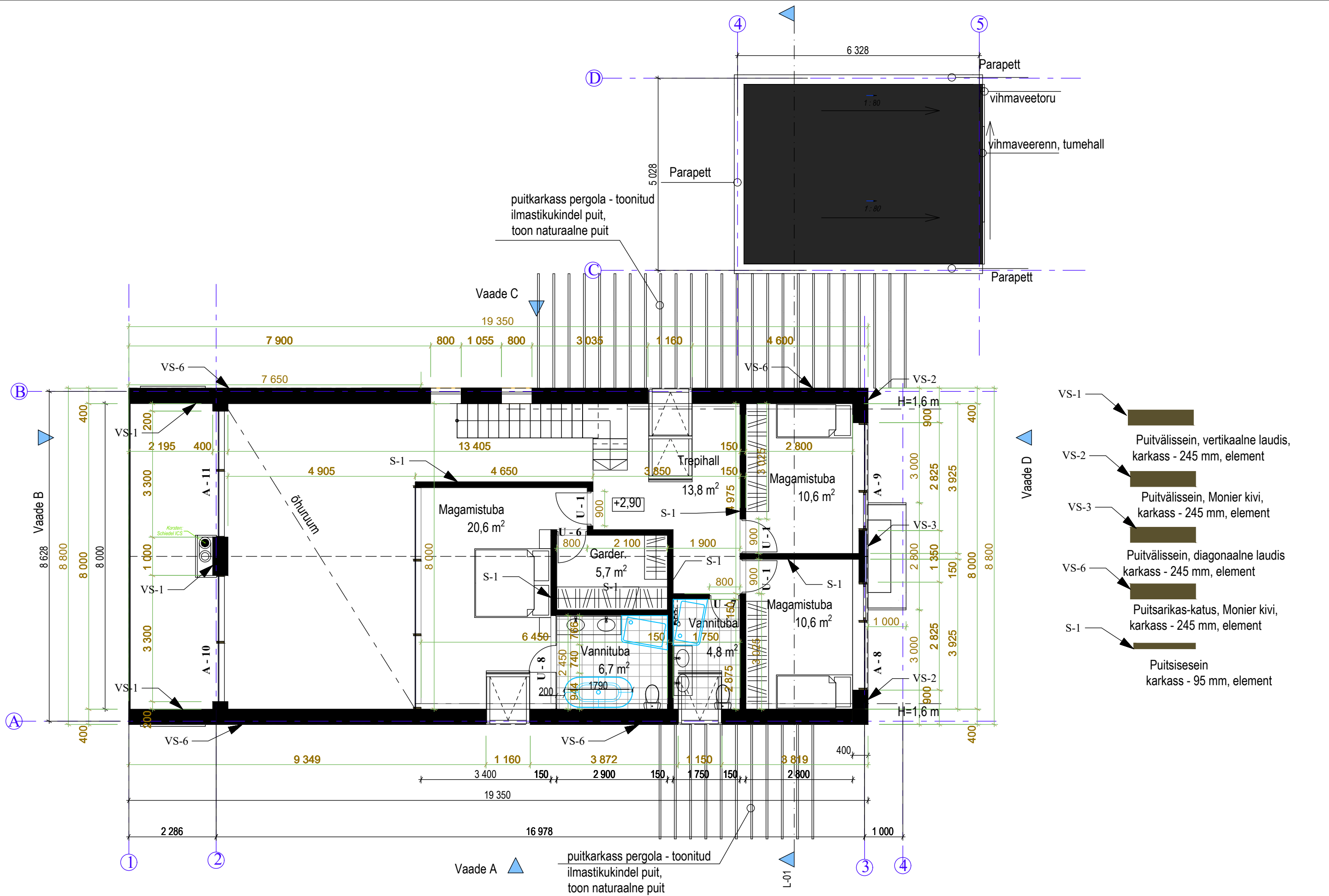
KÕIKIDE USTE AVATAVUS JA SUUNAD TÄPSUSTADA TELLIJAGA.

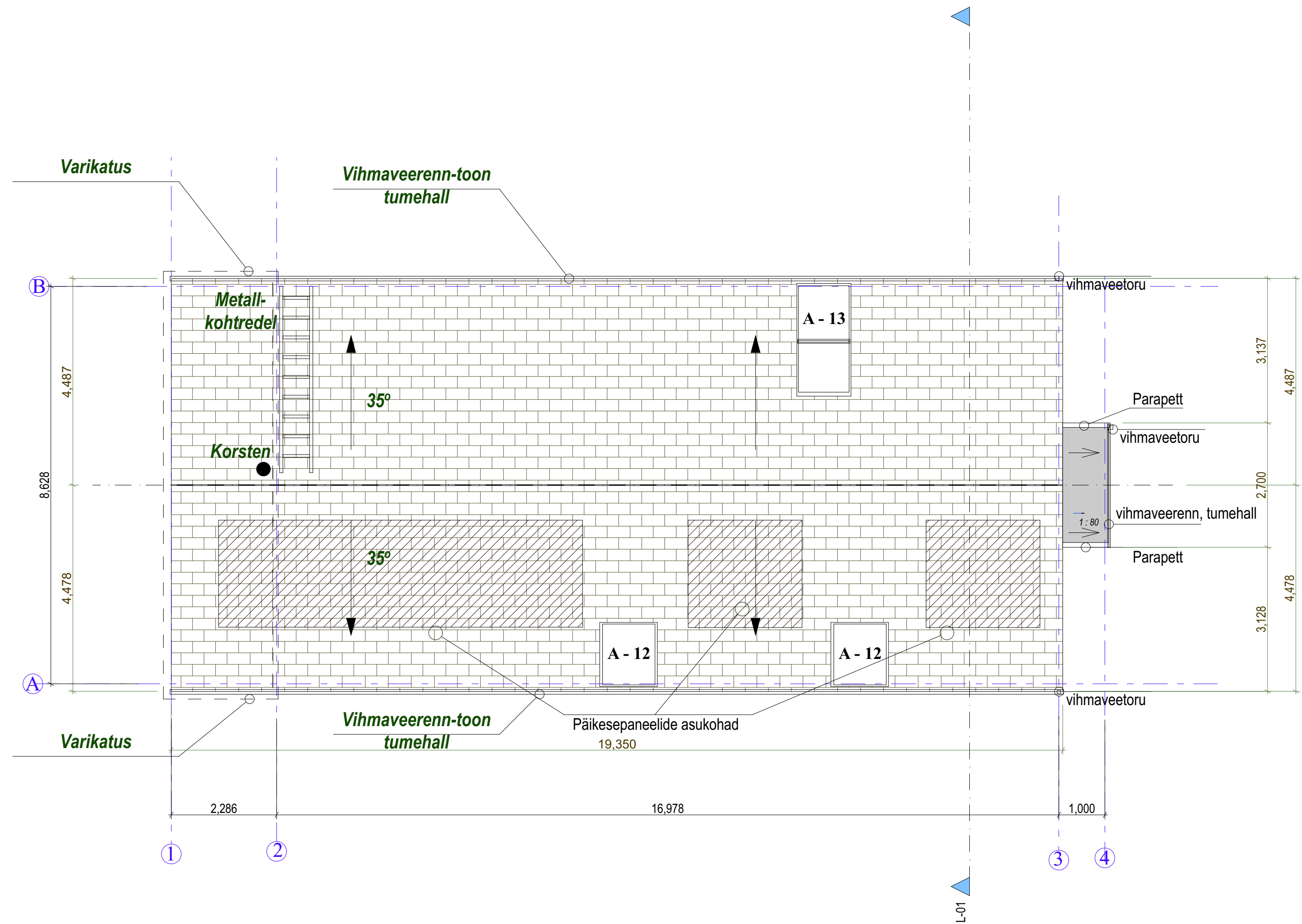


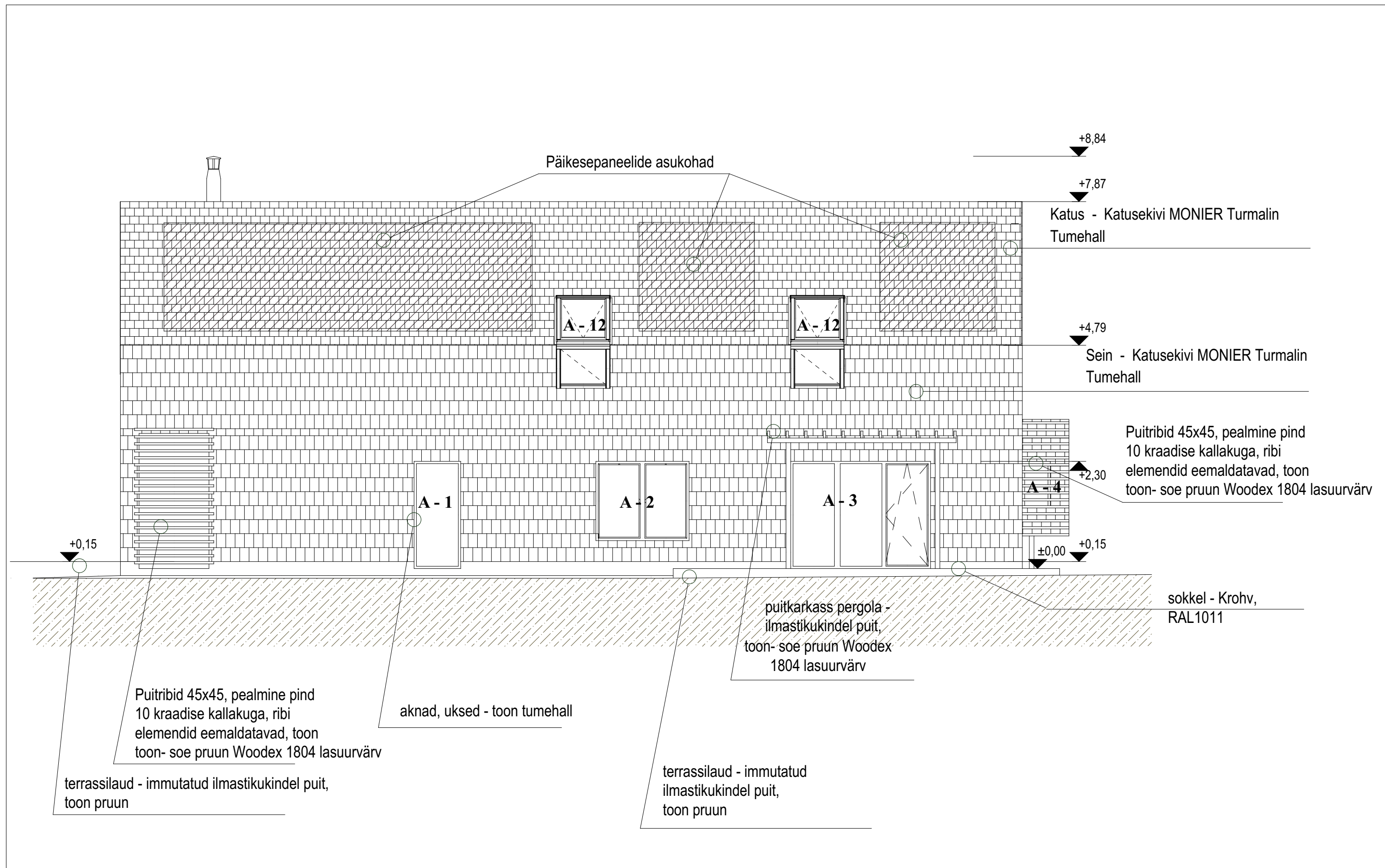
Arhitektuursed joonised

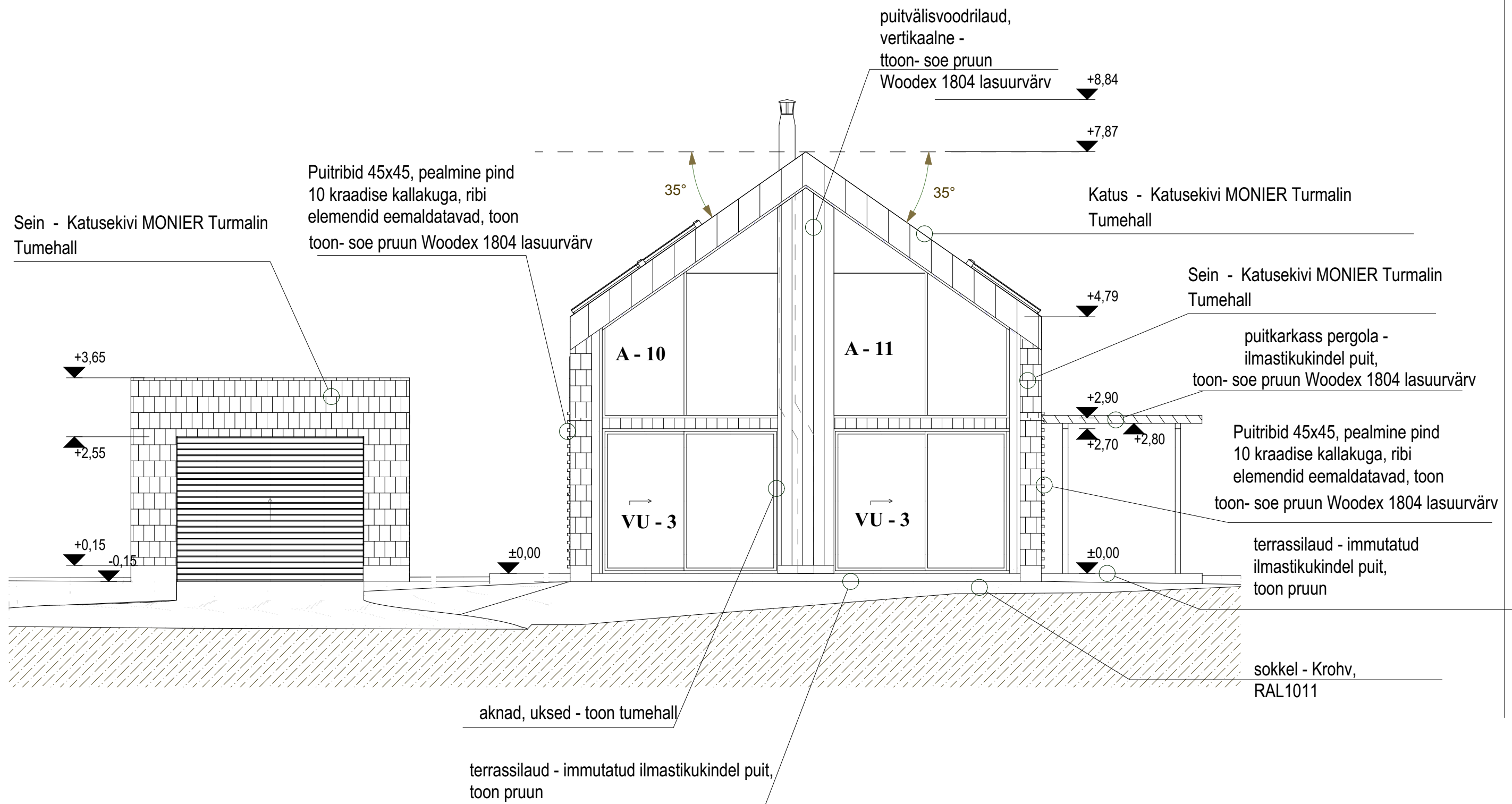


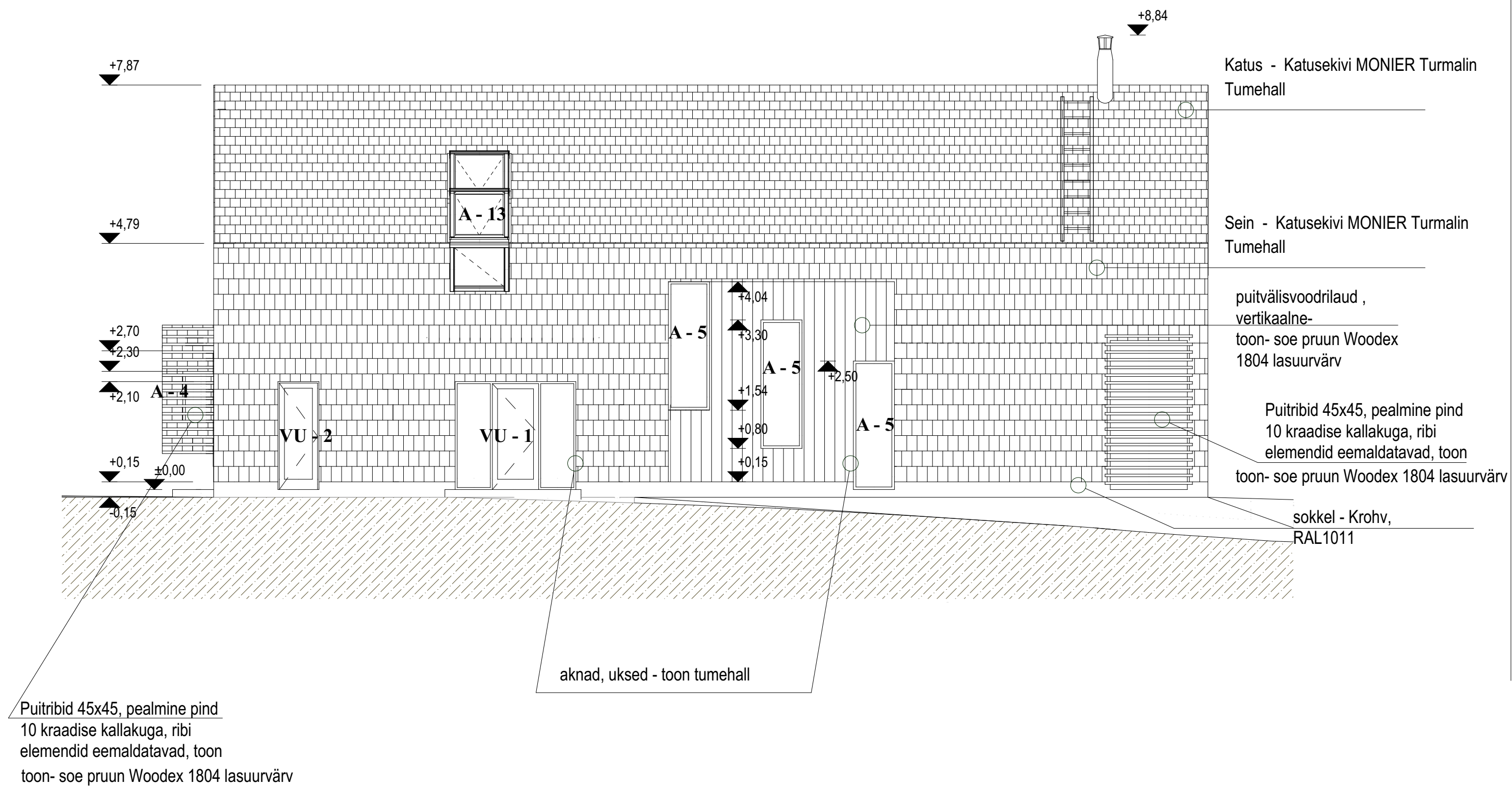
- Plaadistus põrandal
- Puitvälissein, vertikaalne laudis, karkass - 245 mm, element
- Puitvälissein, Monier kivi, karkass - 245 mm, element
- Puitvälissein, diagonaalne laudis, karkass - 145 mm, element
- Puitvälissein, Monier kivi, karkass - 145 mm, element
- Puitsisein karkass - 95 mm, element

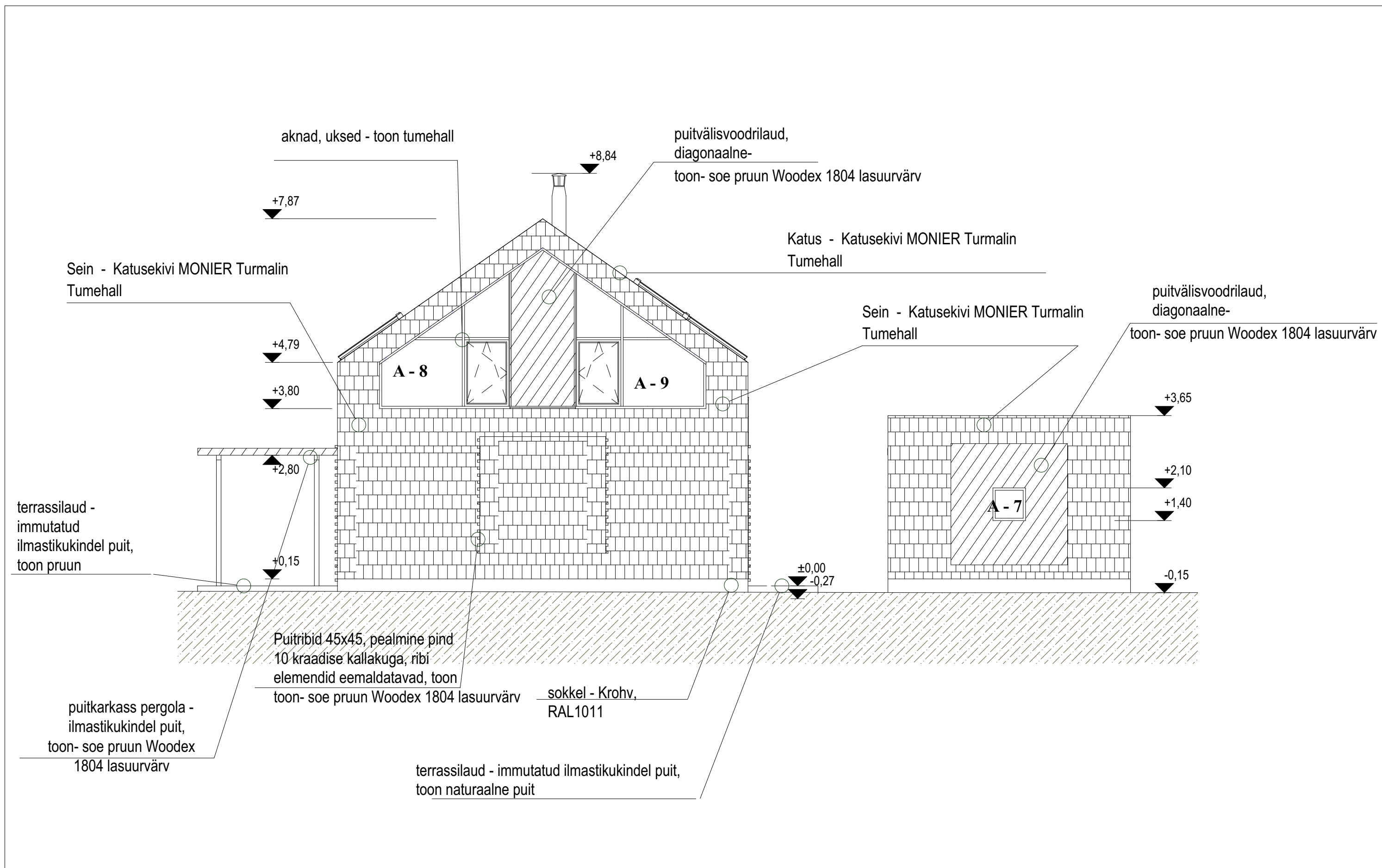














Standardised sõlmlahendused

VÄLISSEIN EW

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

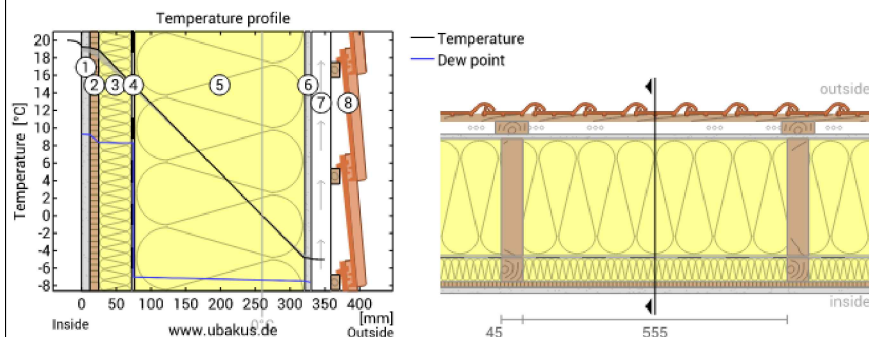
Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

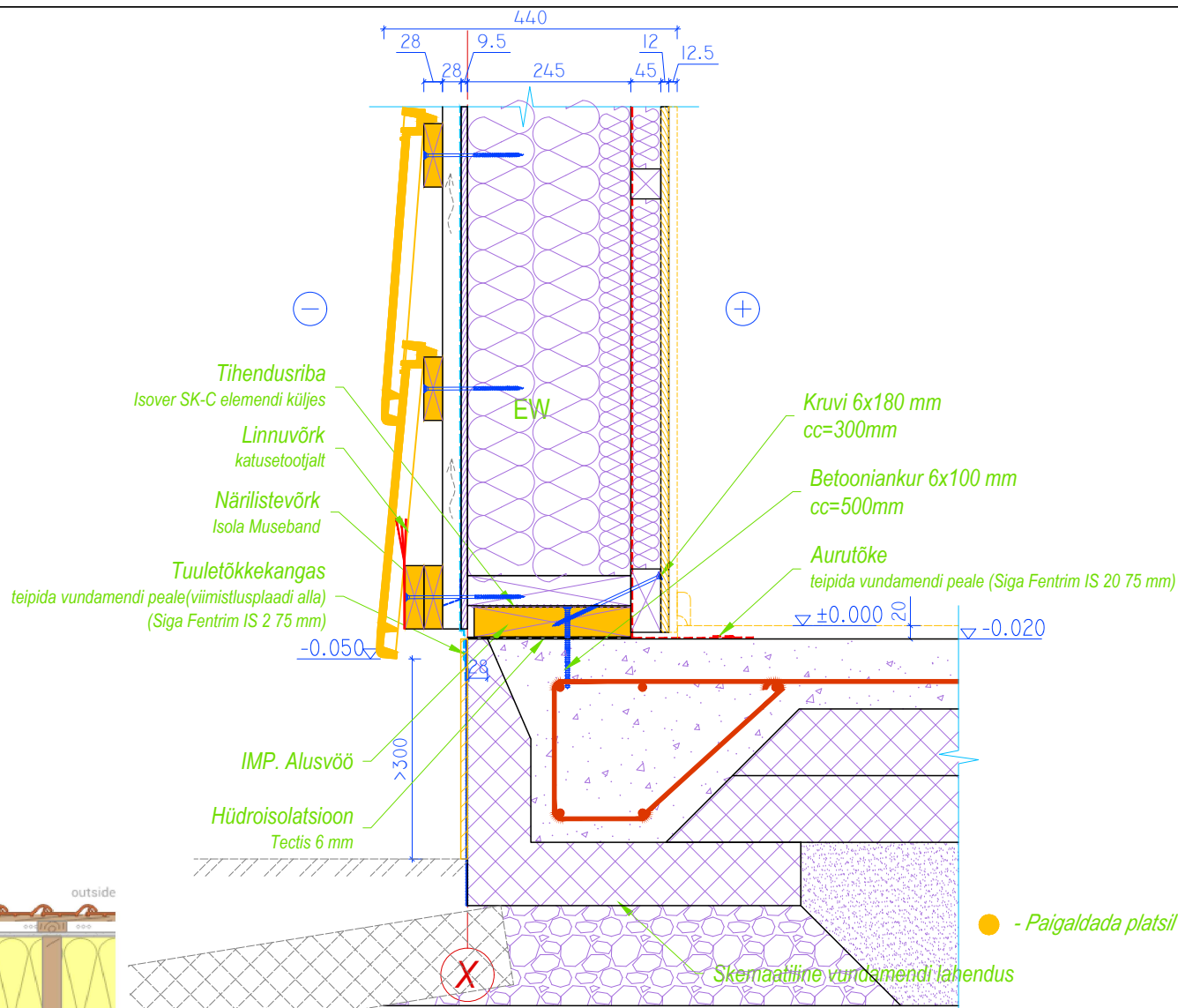
Kipsplaat 12,5mm

EW1, $U=0,14 \text{ W/(m}^2\text{K)}$

Temperature profile



- | | | |
|--------------------------------|-----------------------------------|---------------------------------|
| ① Rajasil HP (12,5 mm) | ④ Foil, PE | ⑦ Rear ventilated level (28 mm) |
| ② OSB/3 (12 mm) | ⑤ Rockwool, stone wool (245 mm) | ⑧ Roofing tiles (50 mm) |
| ③ Rockwool, stone wool (50 mm) | ⑥ Knauf Ausbauplatte GKF (9,5 mm) | |



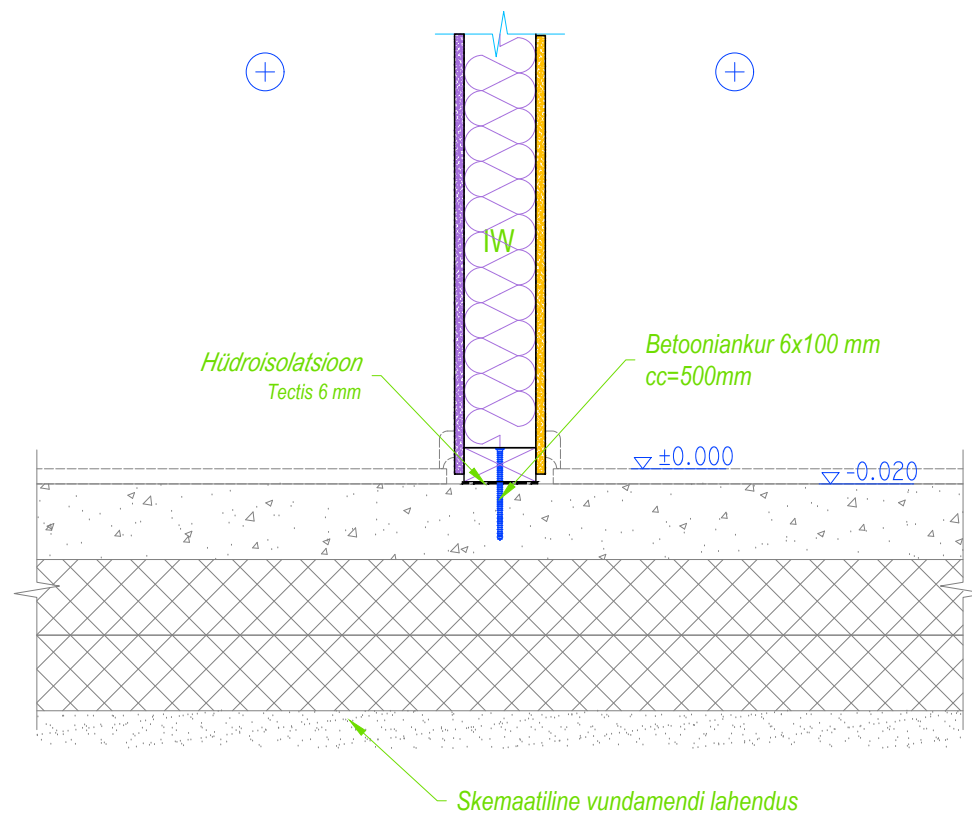
● - Paigaldada platsil

SISESEIN IW

Kipsplaat 12,5 mm

Karkass 45x95 c/c 600 mm + Paroc extra 100 mm

Kipsplaat 12,5 mm



● - Paigaldada platsil

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatti 28x95 mm, c/c 600 mm

Tuuletökkekangas Tyvek Solid

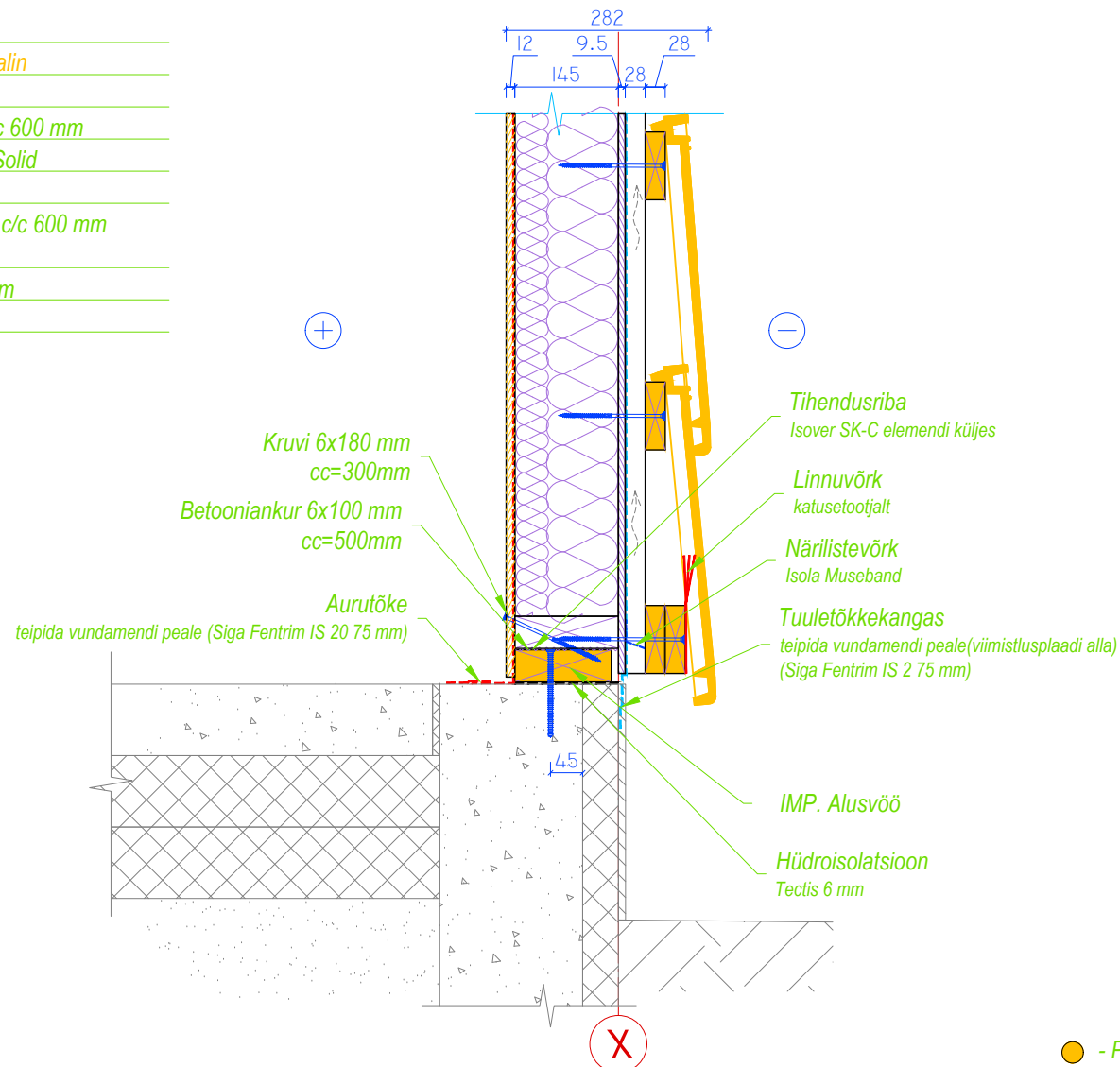
Tuuletökkekipis 9,5mm

C24 Karkass 45x145 mm, c/c 600 mm

Paroc eXtra 150 mm

Aurutõke SFS 4225 0,2 mm

OSB 12mm



VAHELAGE CE1

Põrandaviimistlus 20mm

Kipsbetoon 50mm

Hüdroisolatsioon

Puitlaastplaat 22mm (Forestia)

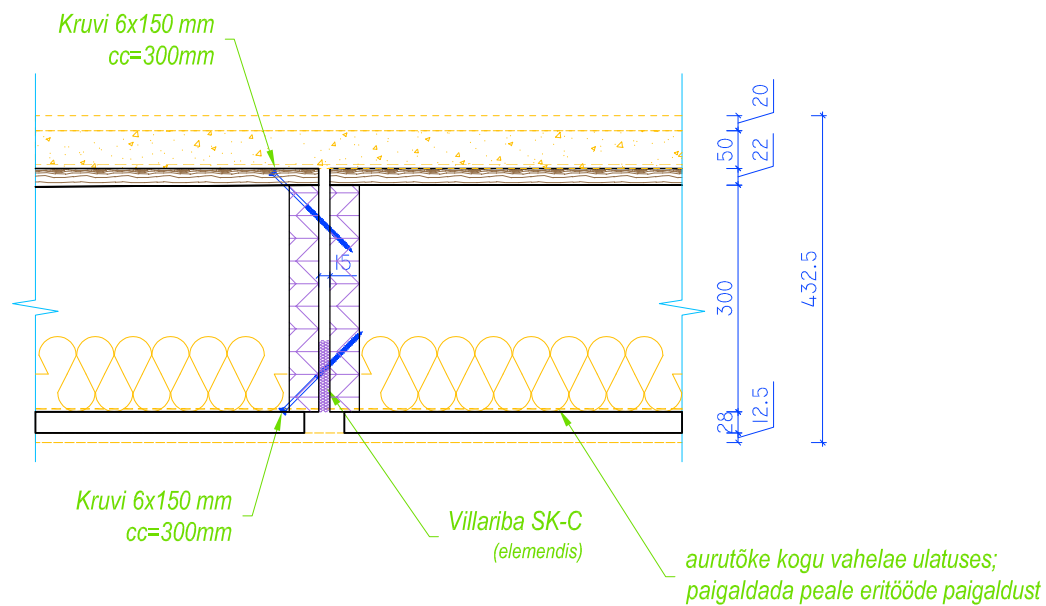
KertoS Karkass 39x300, c/c=400mm /

Mineraalvill Paroc Extra 100 mm

Aurutõkkele SFS4225

Laeroov S2S 28x70mm, c/c=400mm

Kipsplaat 12,5mm



● - Paigaldada platsil

VAHELAGI CE1

Põrandaviimistlus 20mm

Kipsbetoon 50mm

Hüdroisolatsioon

Puitlaastplaat 22mm (Forestia)

GL24h Karkass 42x300, c/c=400mm /

Mineraalvill Paroc Extra 100 mm

Aurutõkkeile SFS4225

Laeroov S2S 28x70mm, c/c=400mm

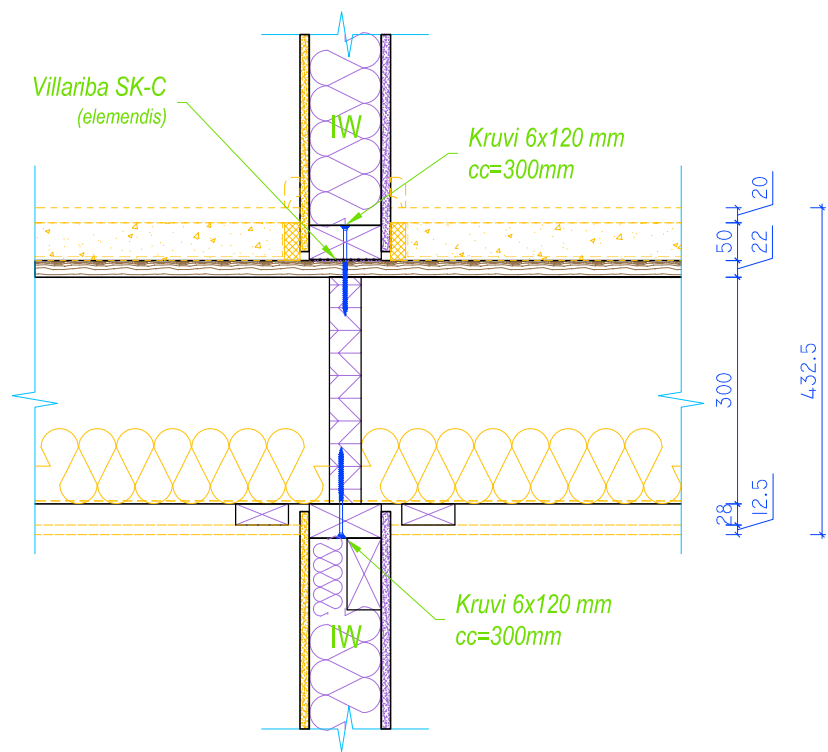
Kipsplaat 12,5mm

SISESEIN IW

Kipsplaat 12,5 mm

Karkass 45x95 c/c 600 mm + Paroc extra 100 mm

Kipsplaat 12,5 mm



● - Paigaldada platsil

Vihmavee süsteem
paigaldada platsil;
<https://www.toode.ee/juhendid/paigaldusjuhised/umar-vihmaveesusteem/>

Kasutatud standard mõõtudega
latte; ühte jämedamat eriprofiili jällegi
kehvem kinnitada (läheb massiivseks)
Muidugi annab teha eriprofiili,
kuidas teeme?

Räästaplekk PL-1

Rennikandur
Kompakt (Steel.ee)

28x70 + 45x45
vihmaveetoru akndja

Tuulet.kangas

1. teipida Siga Wigluv 60
2. Mastiks elementide vahel

Kruvi 6x150 mm
cc=300mm

Aurutõkke ülekatttega ühendus
Teipida Siga Sicrall 60

Nurgaplekk 50x50

Kruvi 6x180 mm
cc=300mm

Tihendusvill
Isover SK-C elementis

KATUS RE

Katusekivi MONIER Turmalin

Roov 45x45mm cc=355-380

Tuulutustlatt 45x45mm

Siga naelutus-teip lattide all

Hingav aluskate Siga Majcoat 150, teibitud

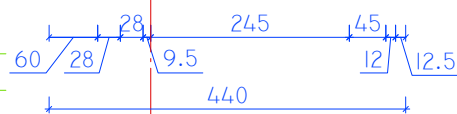
Sarikas 42x400mm GL24h c/c 600mm

Paroc eXtra 400 mm

Aurutõke SFS 4225 0,2 mm

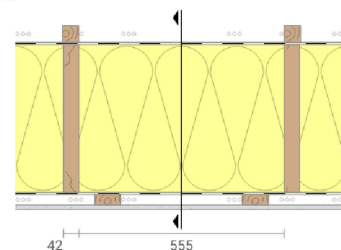
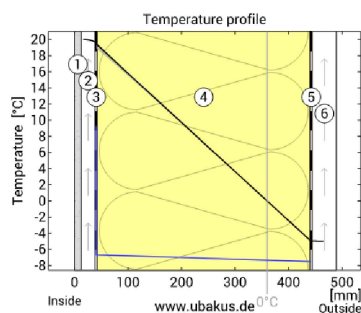
Hor.roov 28x70 mm c/c 400mm

Kipsplaat 12,5mm



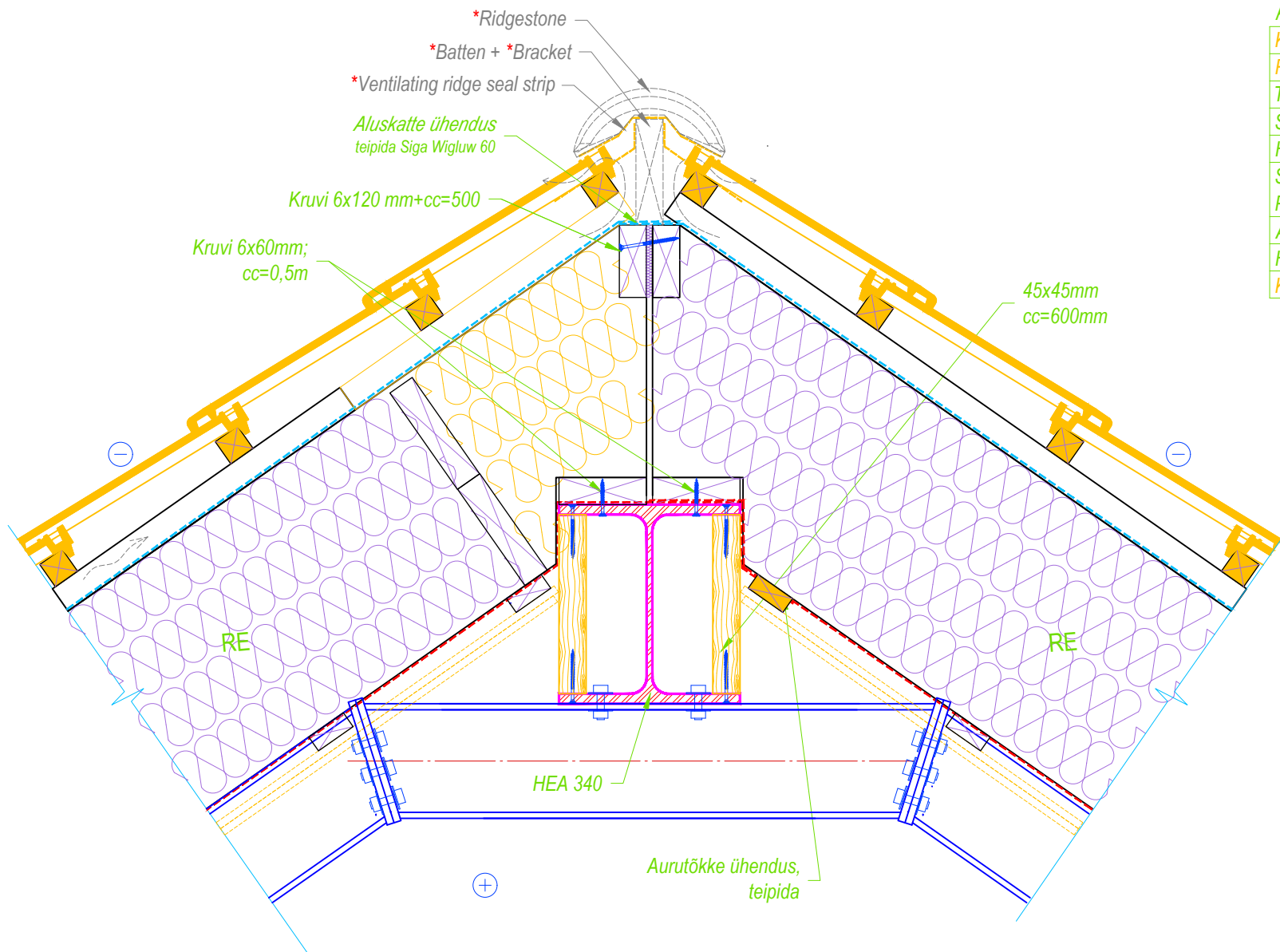
Timo roof RO, U=0,10 W/(m²K)

Temperature profile



● - Paigaldada platsil

- ① Knauf Ausbauplatte GKF (12,5 mm)
- ② Rear ventilated level (28 mm)
- ③ Foil, PE
- ④ Rockwool, stone wool (400 mm)
- ⑤ SIGA Majcoat 150
- ⑥ Rear ventilated level (45 mm)



KATUS RE

Katusekivi MONIER Turmalin

Roov 45x45mm cc=355-380

Tuulutuslatt 45x45mm

Siga naelutus-teip lattide all

Hingav aluskate Siga Majcoat 150, teibitud

Sarikas 42x400mm GL24h c/c 600mm

Paroc eXtra 400 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 28x70 mm c/c 400mm

Kipsplaat 12,5mm

KATUSE_ELEMENT RE2 - garaaz

Murukatuse kihid ~130mm

2x Protan SE (Tarrapolar ja Pintapolar)

Forestia 22 mm

Vent.latt kaldu 45x45...145, c/c 400 mm

Siga nail sealing tape under laths

Hingav aluskate Siga Majcoat 150, taped

GL24h Sarikad 42x300 c/c 600 mm/

Paroc eXtra 250 mm

Aurutöke SFS 4225 0,2 mm

Laeroov 28x70 c/c 400 mm

OSB 12mm

Kruvi 6x150 mm
cc=300mm

Tuulet.kanga-aluskatte ühendus
teipida Siga Wigluw 60
ülekatte min. 150 mm

VÄLISSEIN EW 2

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutustlatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

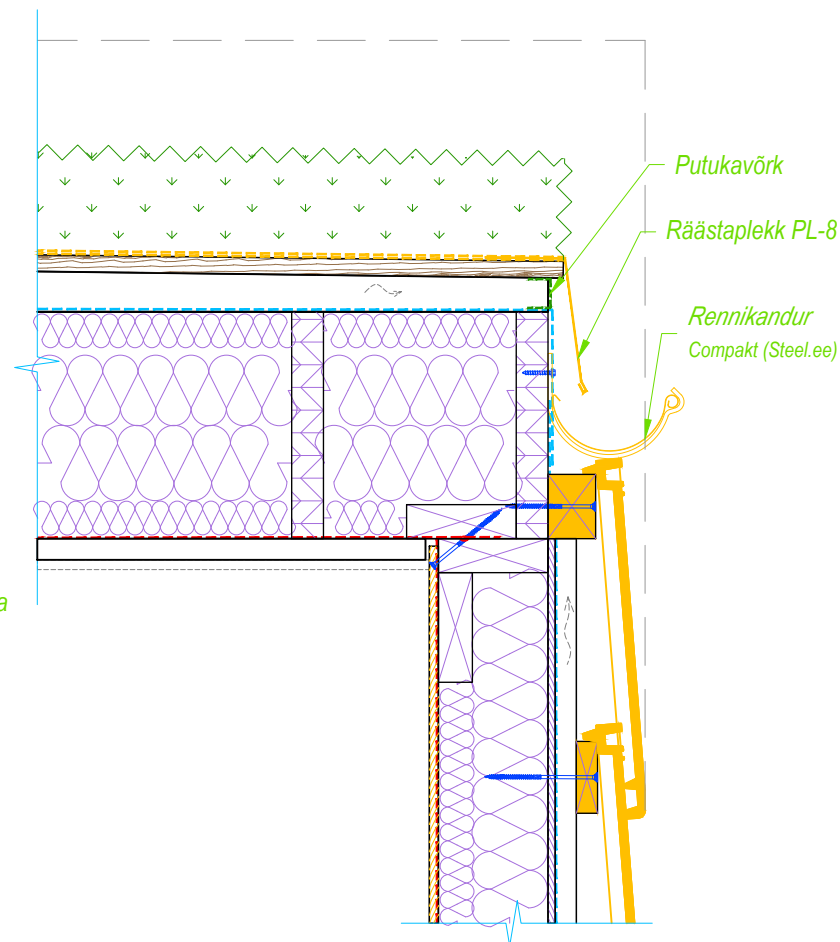
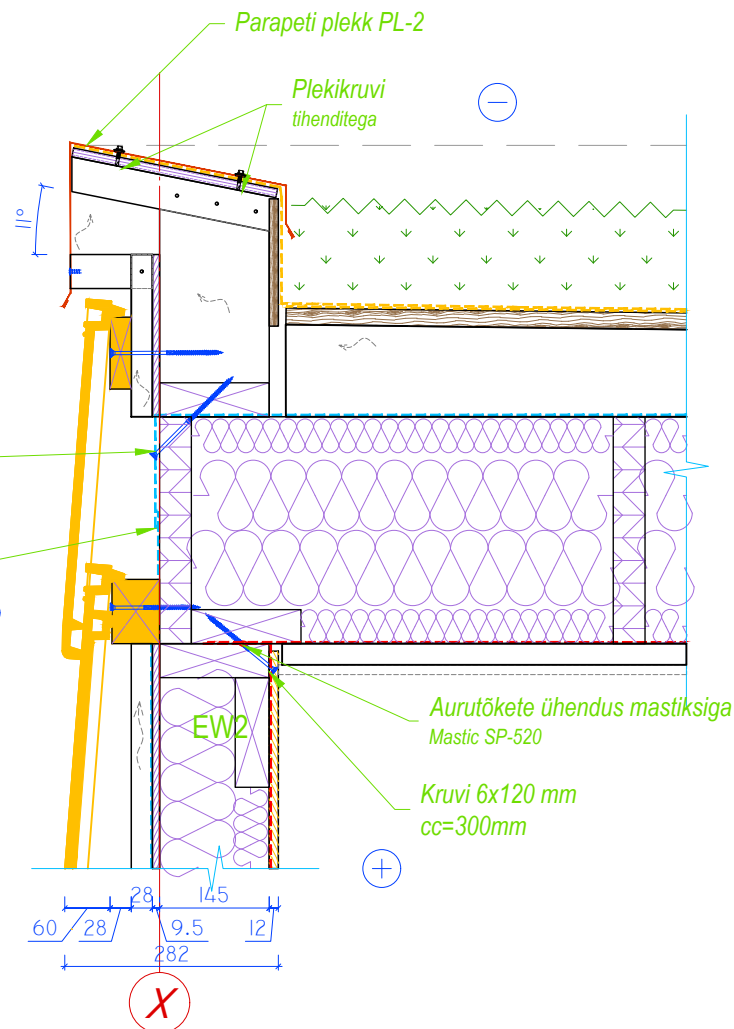
Tuuletõkkekips 9,5mm

C24 Karkass 45x145 mm, c/c 600 mm

Paroc eXtra 150 mm

Aurutöke SFS 4225 0,2 mm

OSB 12mm



KATUS RE

Katusekivi MONIER Turmalin

Roov 45x45mm cc=355-380

Tuulutusslatt 45x45mm

Siga naelutus-teip lattide all

Hingav aluskate Siga Majcoat 150, teibitud

Sarikas 42x400mm GL24h c/c 600mm

Paroc eXtra 400 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 28x70 mm c/c 400mm

Kipsplaat 12,5mm

Katteplekk, kuna see pind on
päris lai, siis soovitav oleks
see teha valtsiga, et lainetama
ei jääks
variant oleks siia panna ka mingi viimistlusplaat?

Tuulekastilaud
UYSK 21x135/145 mm ???, sama mis seinä vooder

Putukavõrk
Tuuletõkke-kanga ühendus
teipida Siga Wigluw 60

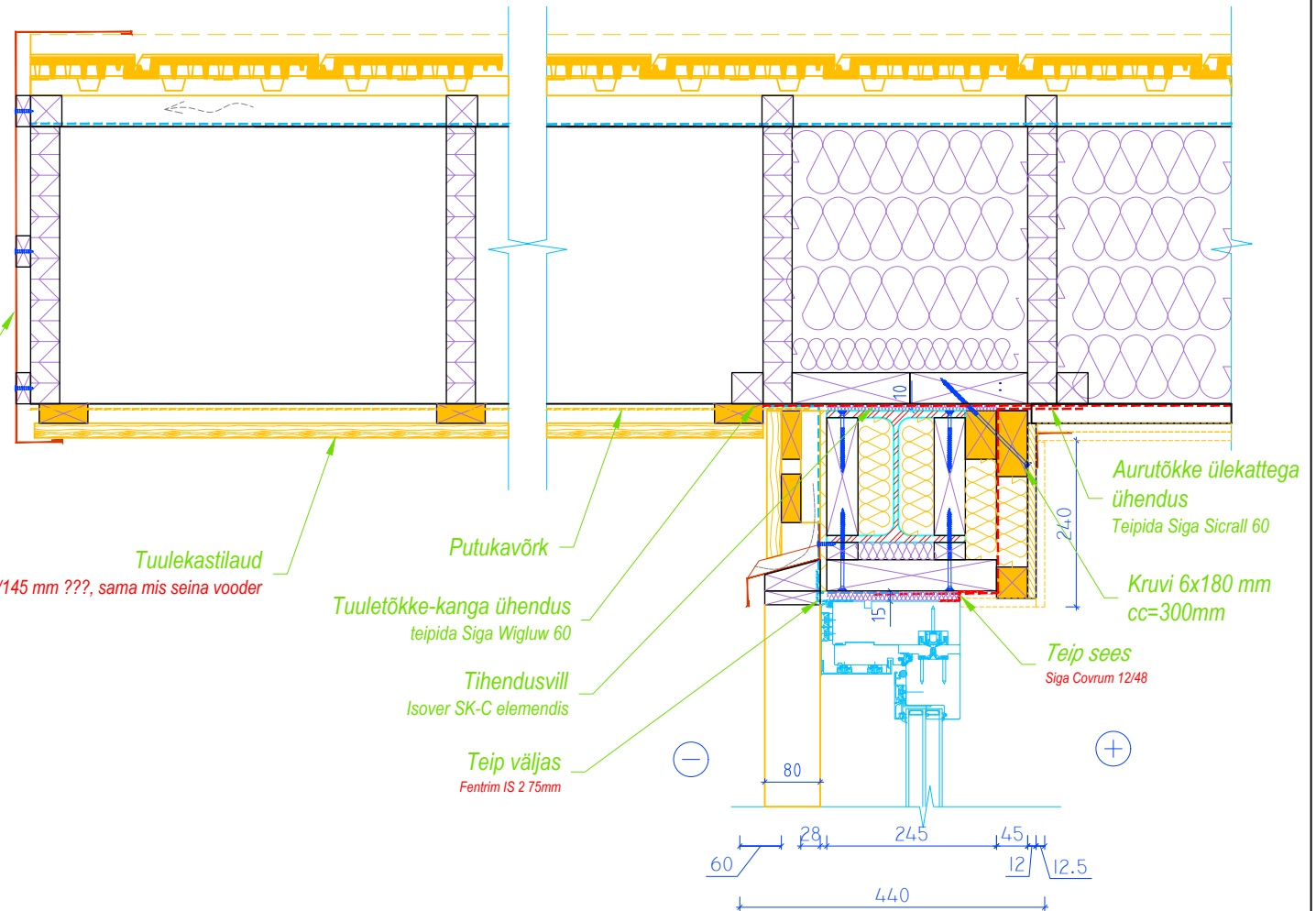
Tihendusvill
Isover SK-C elemendis

Teip väljas
Fentrim IS 2 75mm

Aurutõkke ülekatttega
ühendus
Teipida Siga Sicrall 60

Kruvi 6x180 mm
cc=300mm

Teip sees
Siga Covrum 12/48



KATUS RE

Katusekivi MONIER Turmalin

Roov 45x45mm cc=355-380

Tuulutusslatt 45x45mm

Siga naelutus-teip lattide all

Hingav aluskate Siga Majcoat 150, teibitud

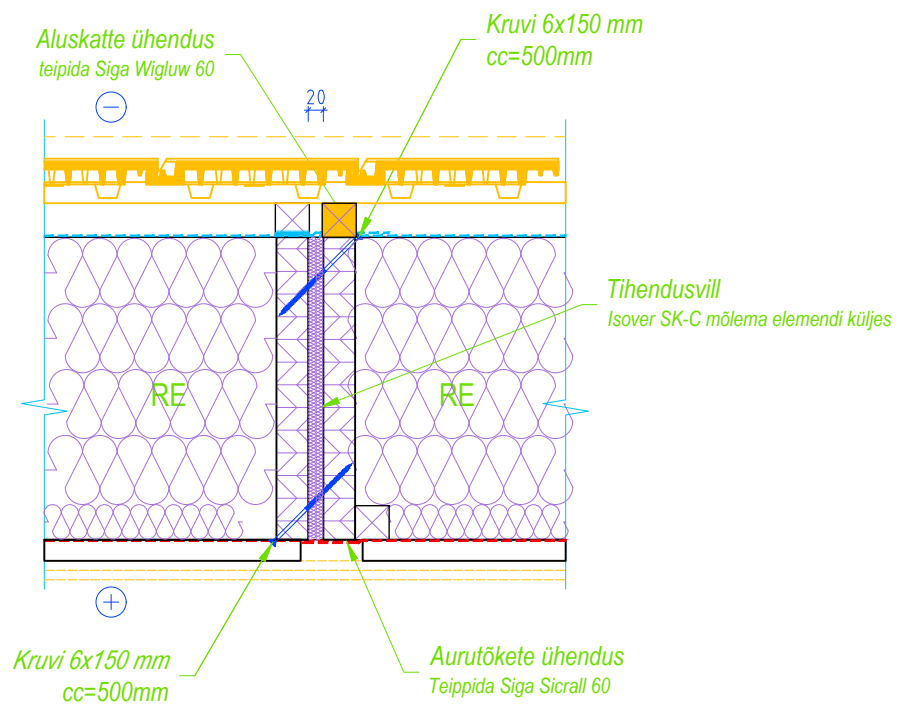
Sarikas 42x400mm GL24h c/c 600mm

Paroc eXtra 400 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 28x70 mm c/c 400mm

Kipsplaat 12,5mm



VÄLISSEIN EW 1

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

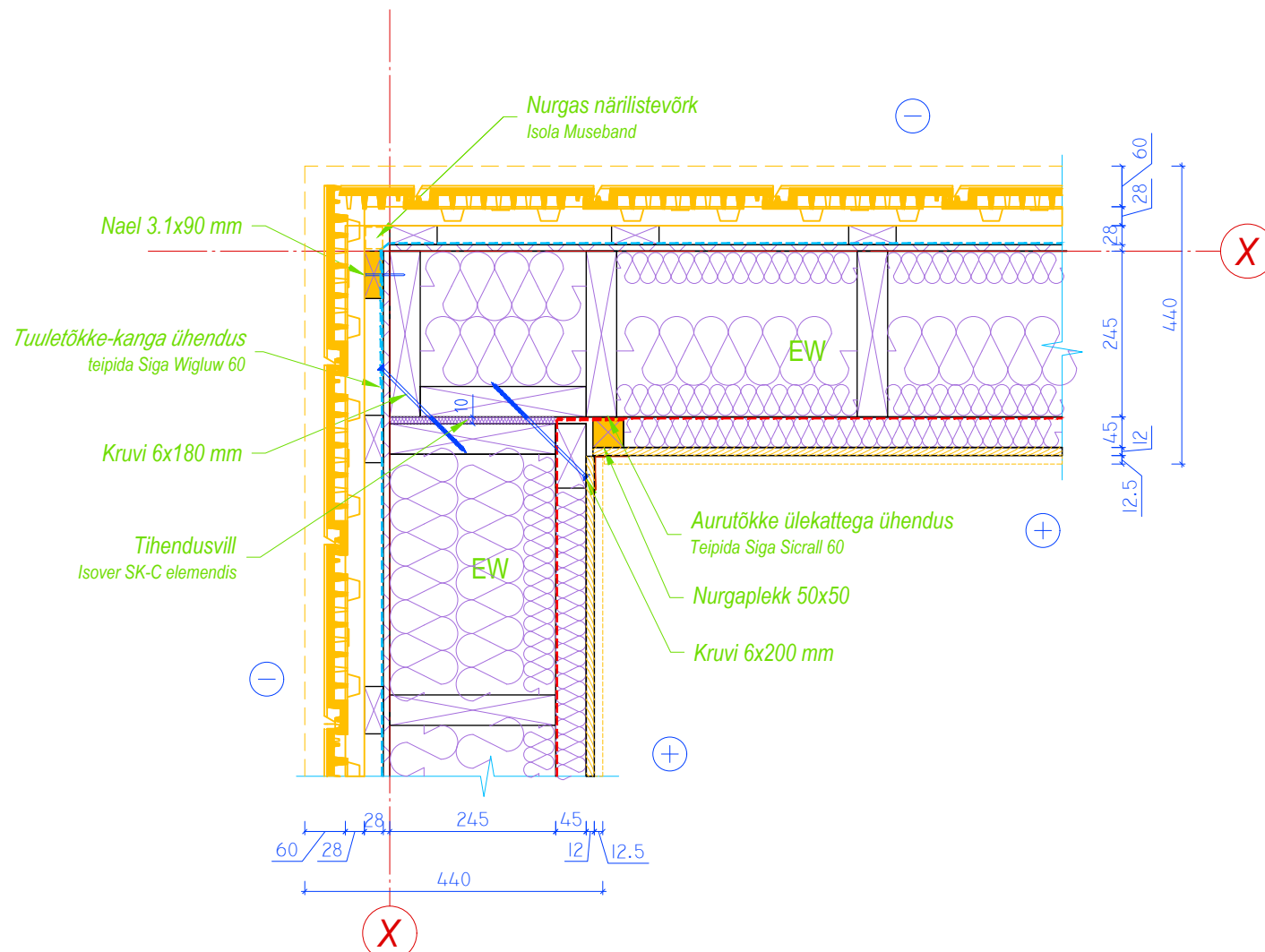
Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

Kipsplaat 12,5mm



● - Paigaldada platsil

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatti 28x95 mm, c/c 600 mm

Tuuletökkekangas Tyvek Solid

Tuuletökkekipis 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

Paroc eXtra 250 mm

Aurutōke SFS 4225 0,2 mm

Hor.roov 45x45 mm / Paroc eXtra 45 mm

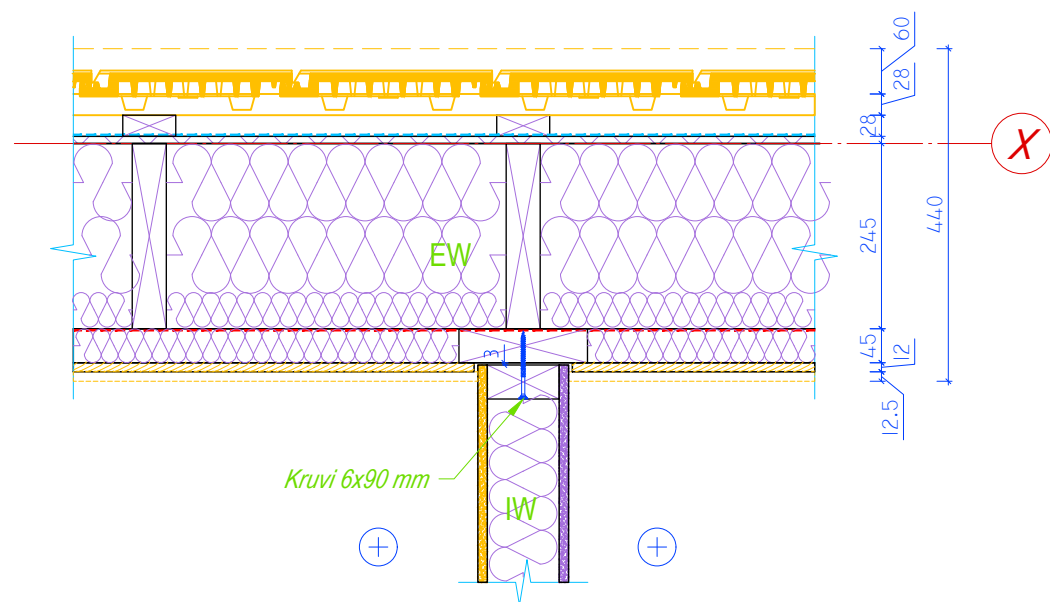
OSB 12mm

Kipsplaat 12,5mm

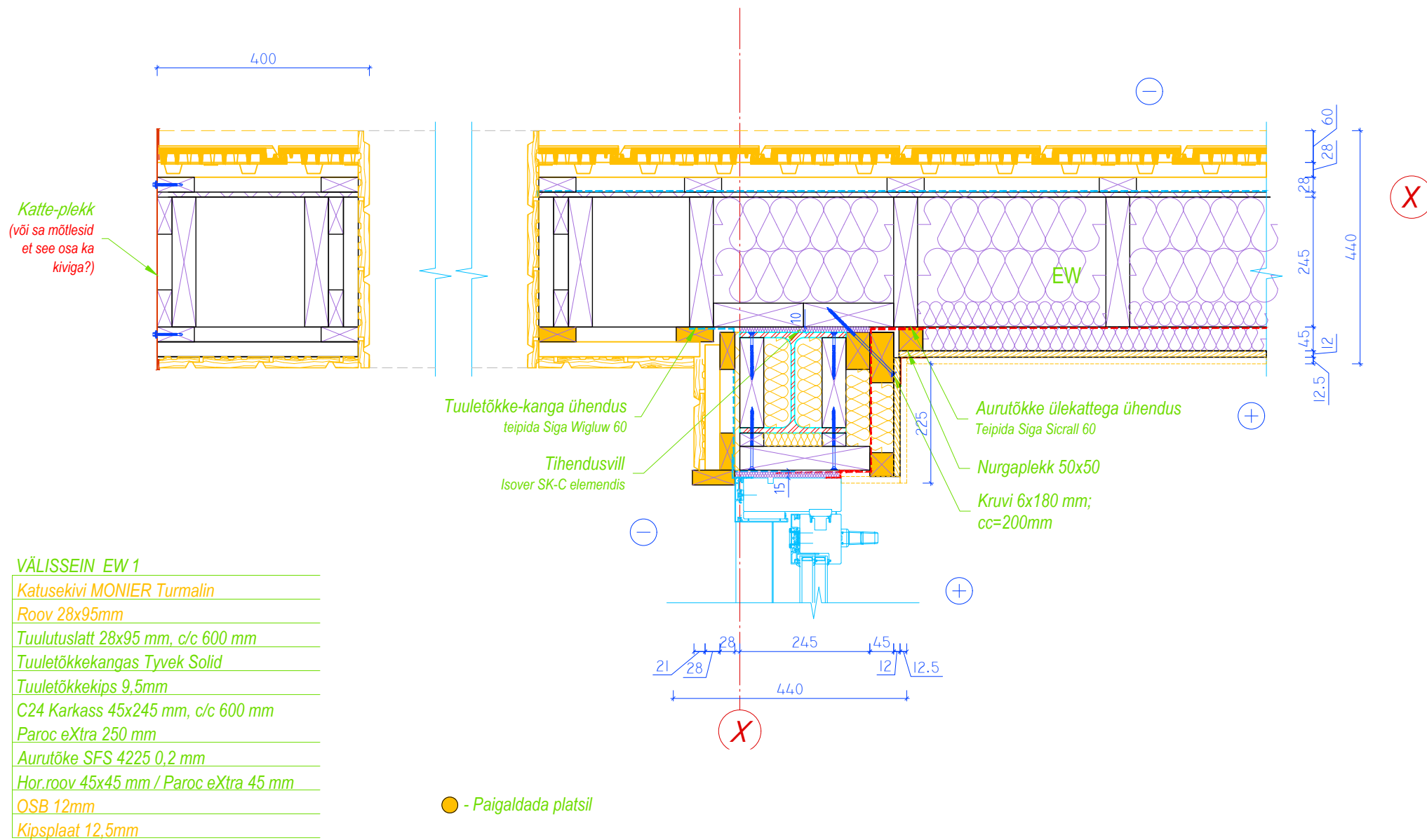
Kipsplaat 12,5 mm

Karkass 45x95 c/c 600 mm + Paroc extra 100 mm

Kipsplaat 12,5 mm



● - Paigaldada platsil



VÄLISSEIN EW 1

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutusslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

Kipsplaat 12,5mm

VÄLISSEIN EW 2

Vert.voodrilaud UYSK 21x135/145 mm

Roov 28x95mm

Tuulutusslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

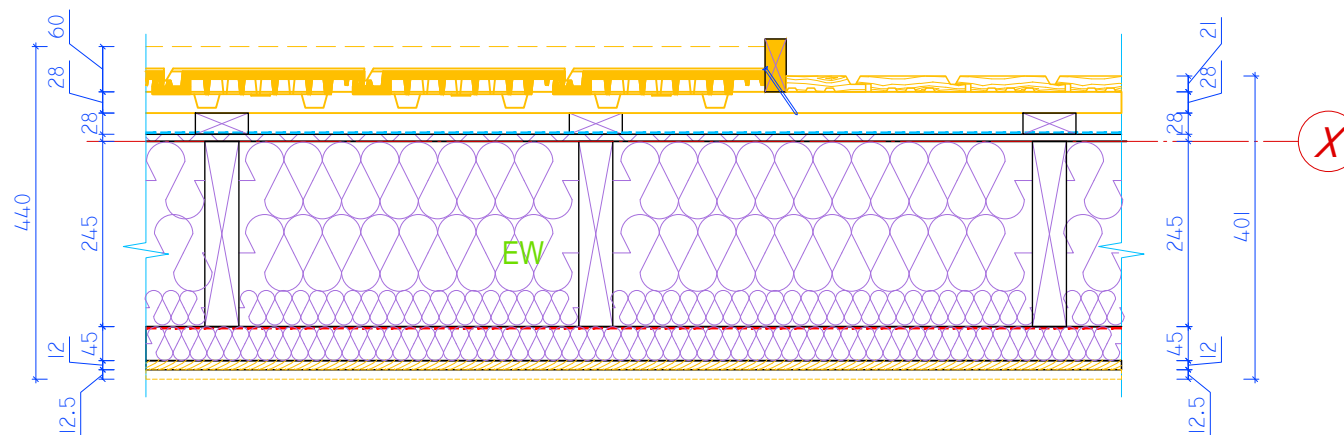
Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

Kipsplaat 12,5mm



● - Paigaldada platsil

VÄLISSEIN EW 2 - garaaz

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

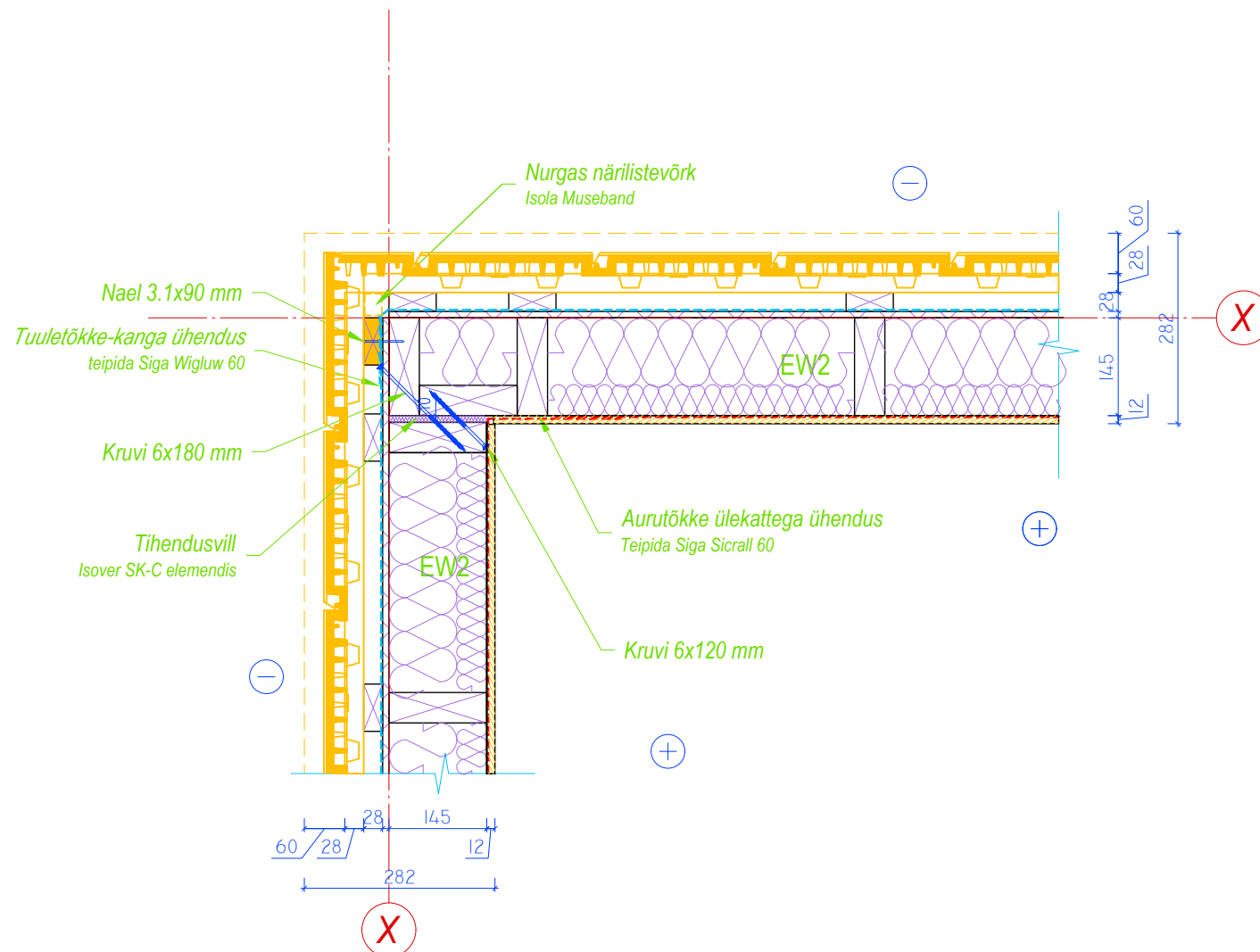
Tuuletõkkekips 9,5mm

C24 Karkass 45x145 mm, c/c 600 mm

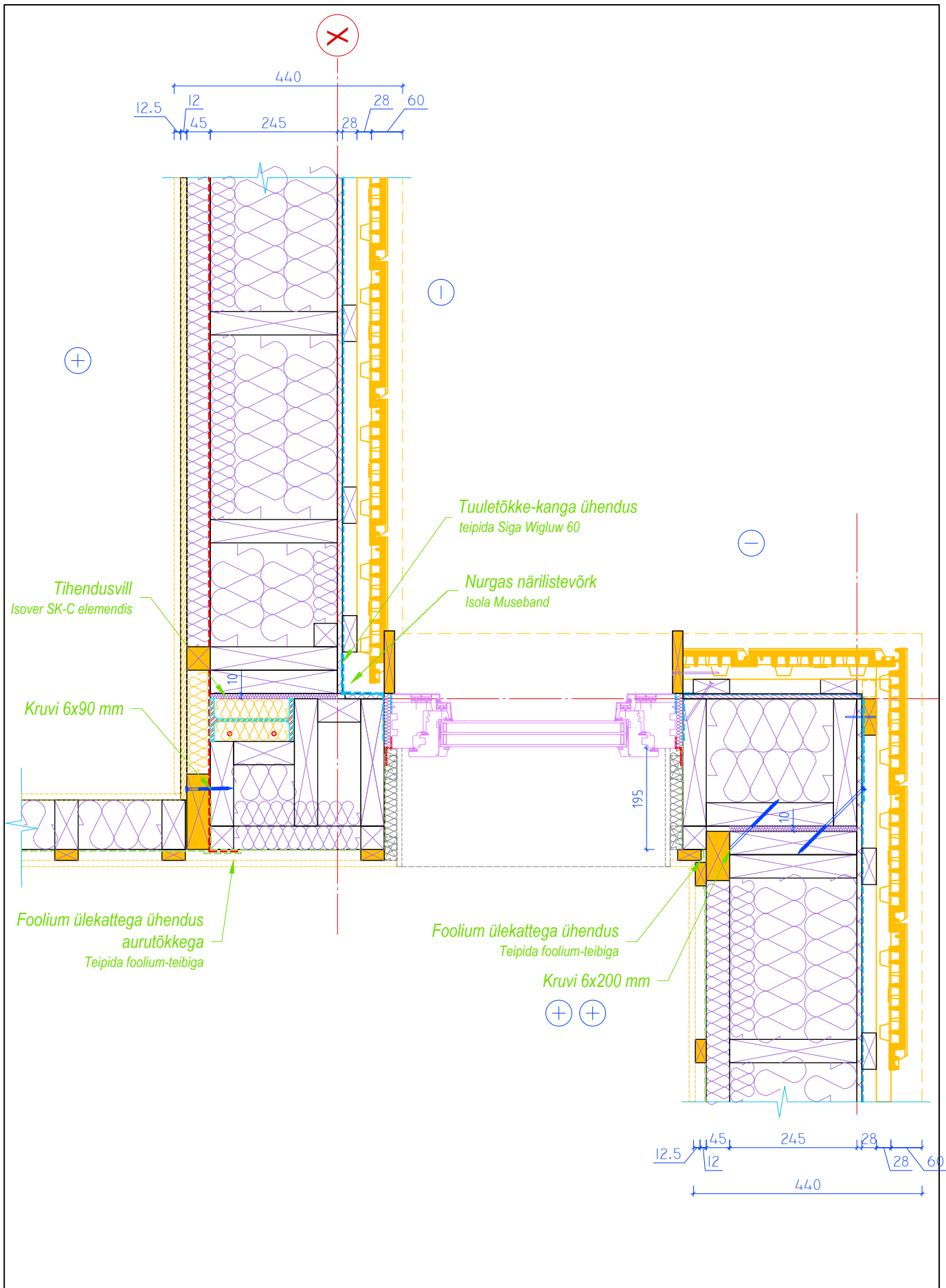
Paroc eXtra 150 mm

Aurutõke SFS 4225 0,2 mm

OSB 12mm



● - Paigaldada platsil



VÄLISSEIN EW 1

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutustlatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

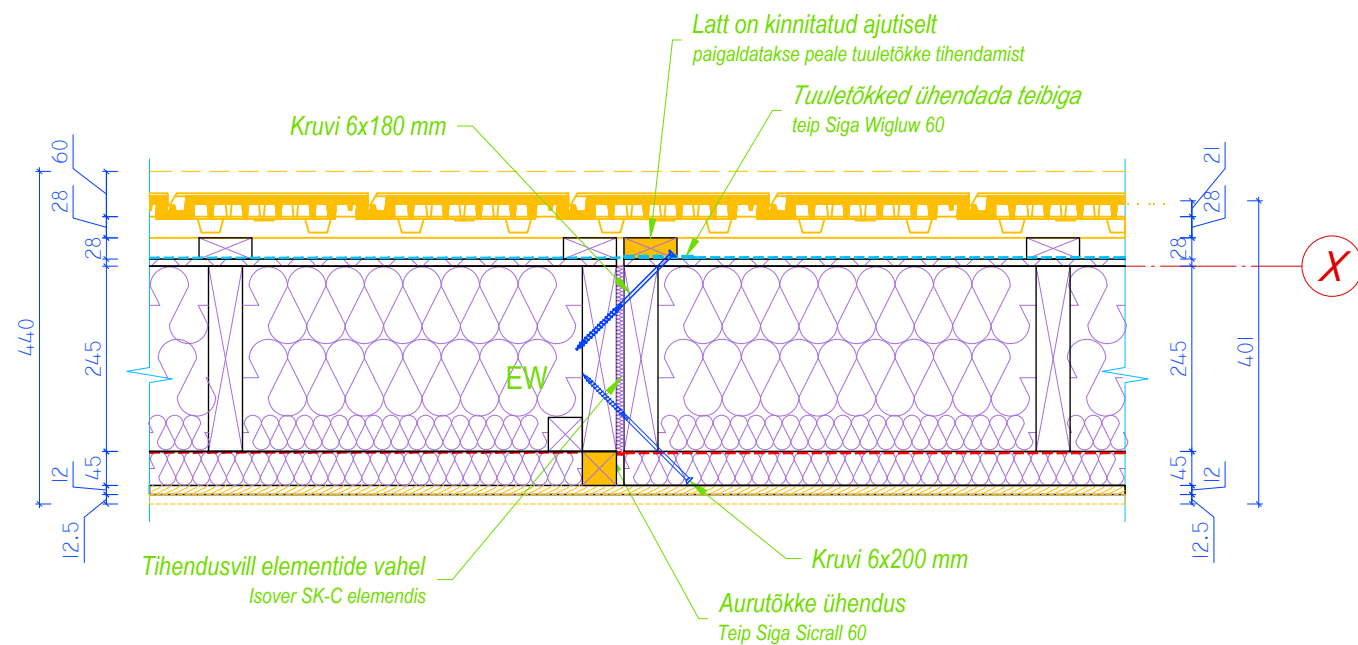
Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

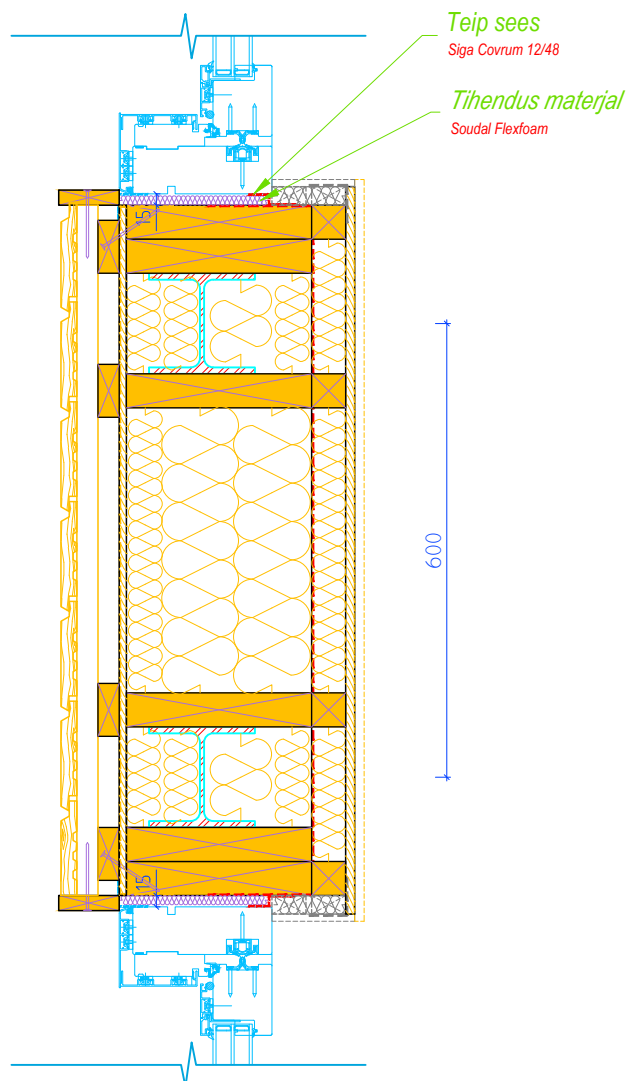
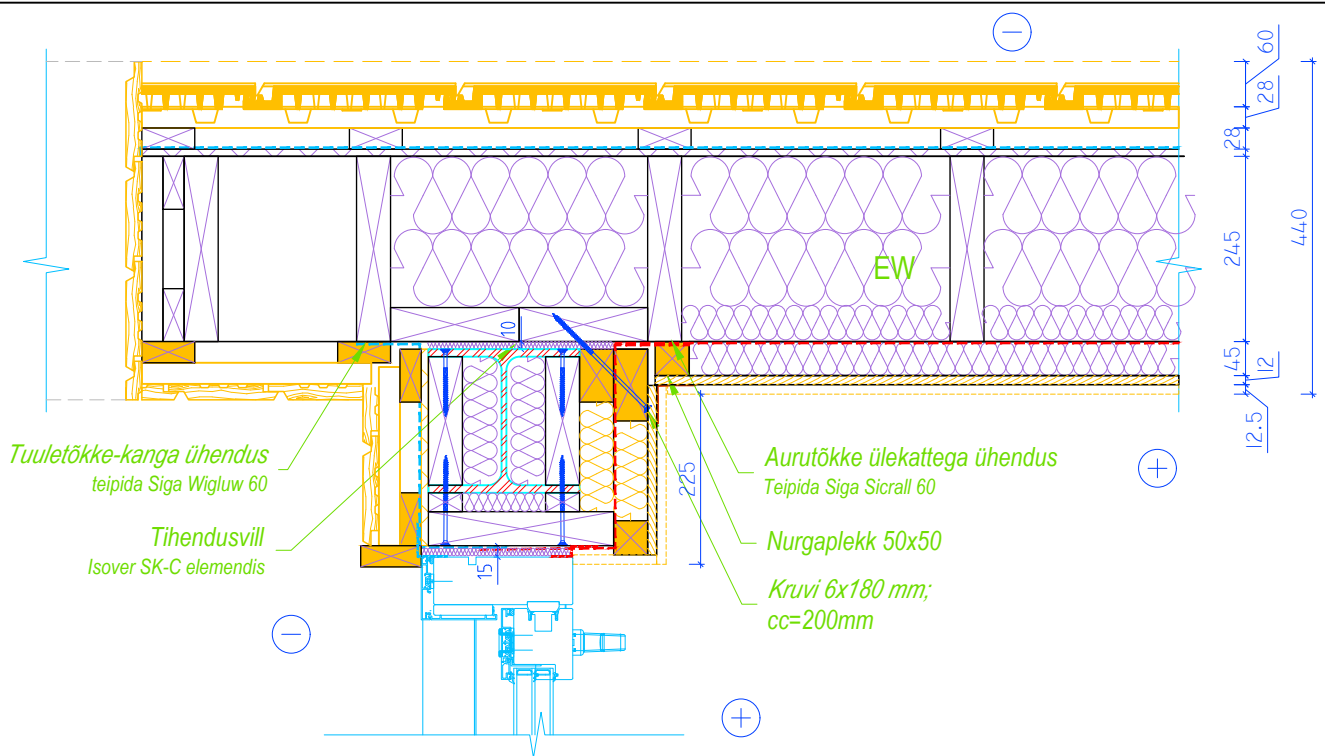
Hor.roov 45x45 mm / Paroc eXtra 45 mm

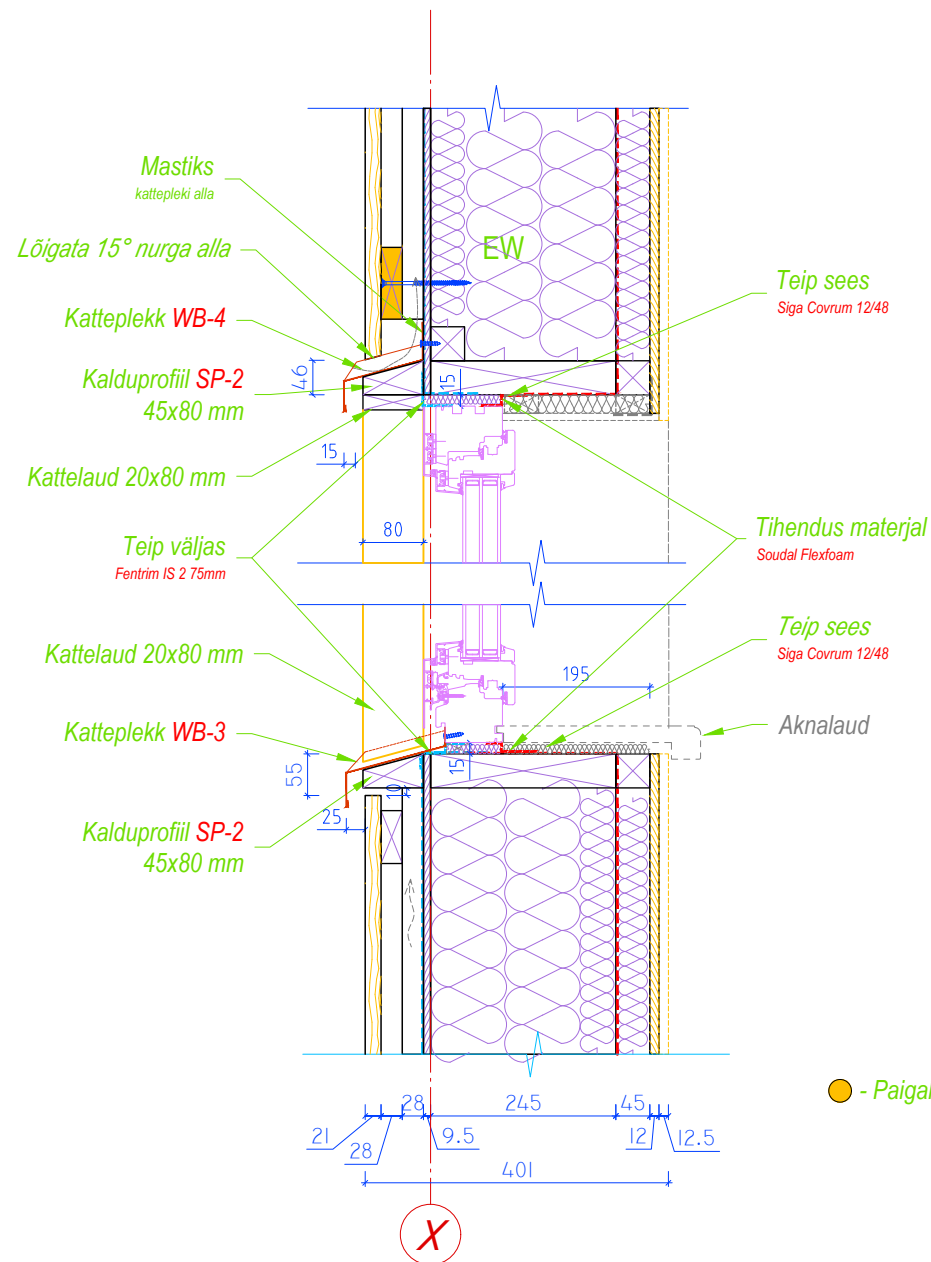
OSB 12mm

Kipsplaat 12,5mm



- - Installed on site
- - Not in delivery
- * - Not in delivery





● - Paigaldada platsil

VÄLISSEIN EW 2

Vert.voodrilaud UYSK 21x135/145 mm

Roov 28x95mm

Tuulutuslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

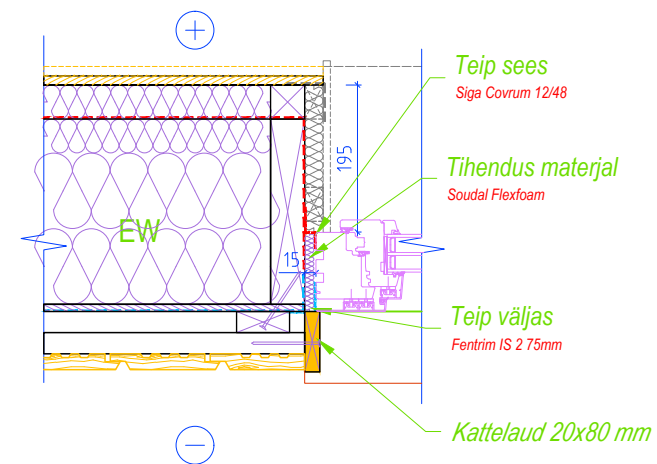
Paroc eXtra 250 mm

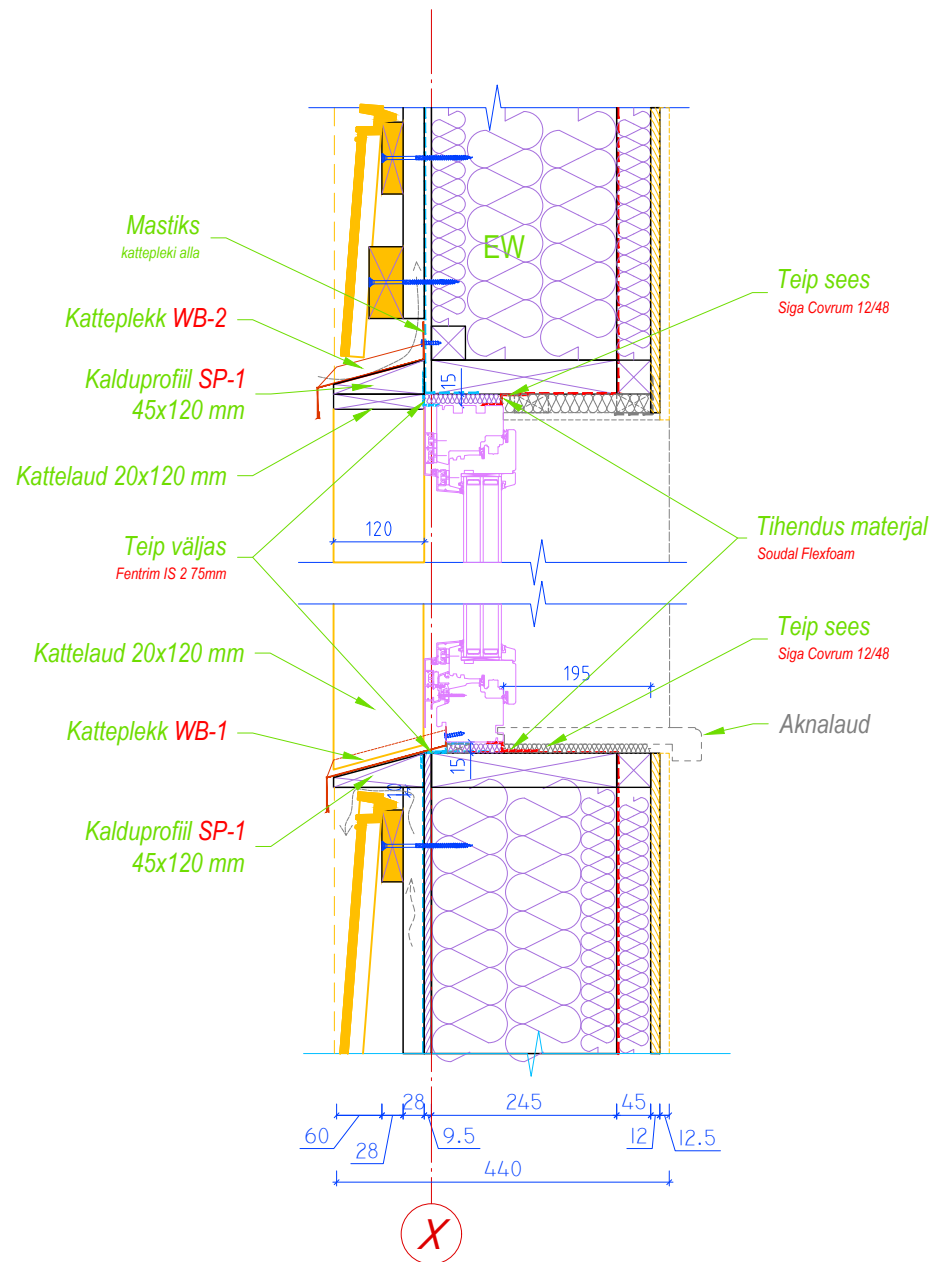
Aurutõke SFS 4225 0,2 mm

Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

Kipsplaat 12,5mm





VÄLISSEIN EW 1

Katusekivi MONIER Turmalin

Roov 28x95mm

Tuulutuslatt 28x95 mm, c/c 600 mm

Tuuletõkkekangas Tyvek Solid

Tuuletõkkekips 9,5mm

C24 Karkass 45x245 mm, c/c 600 mm

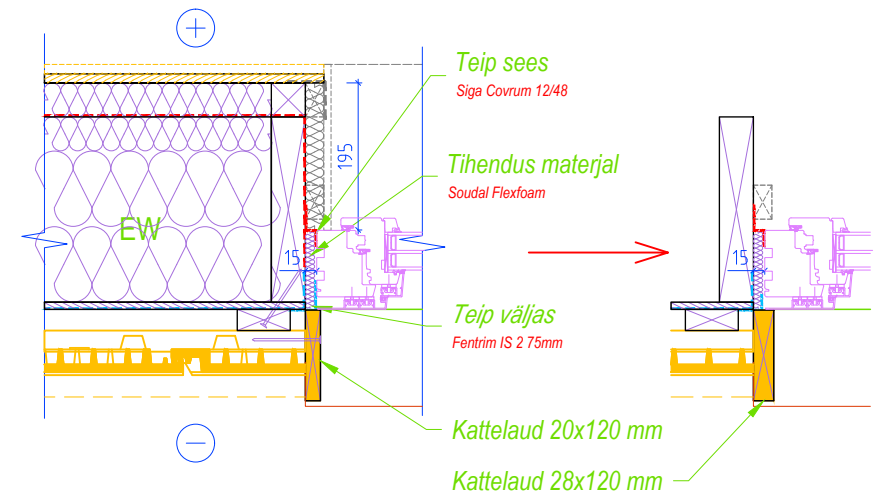
Paroc eXtra 250 mm

Aurutõke SFS 4225 0,2 mm

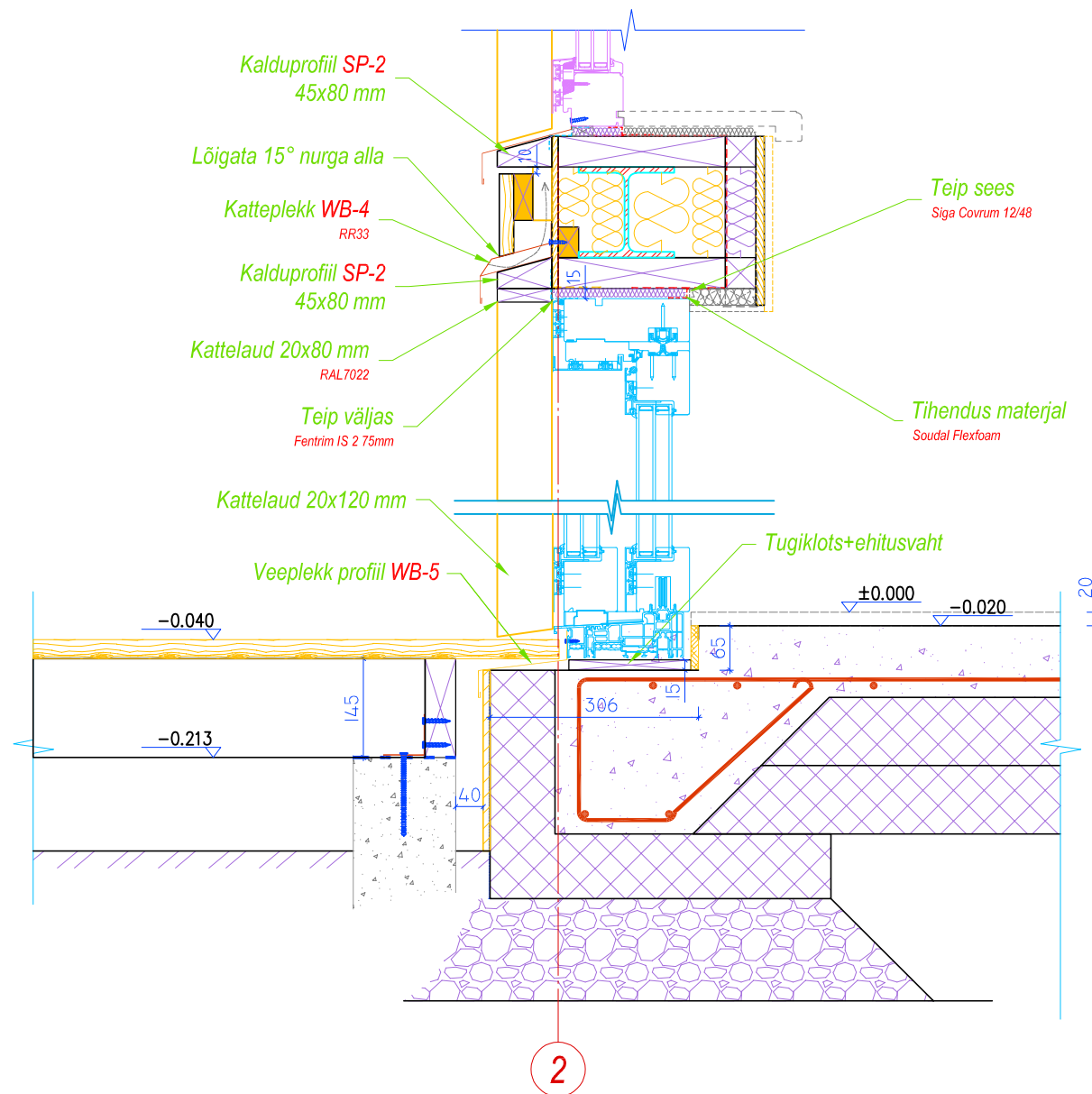
Hor.roov 45x45 mm / Paroc eXtra 45 mm

OSB 12mm

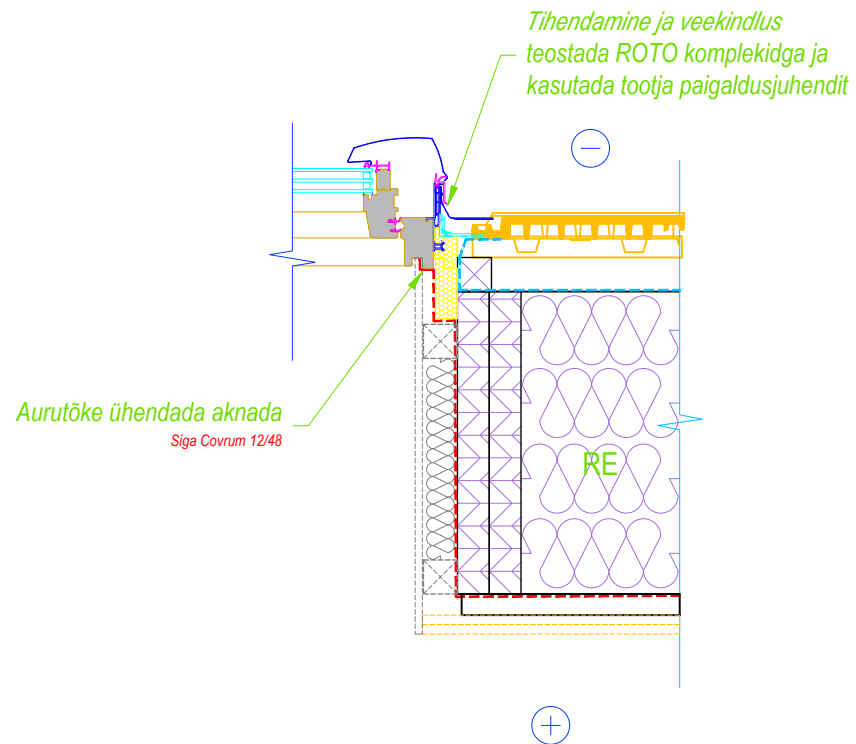
Kipsplaat 12,5mm



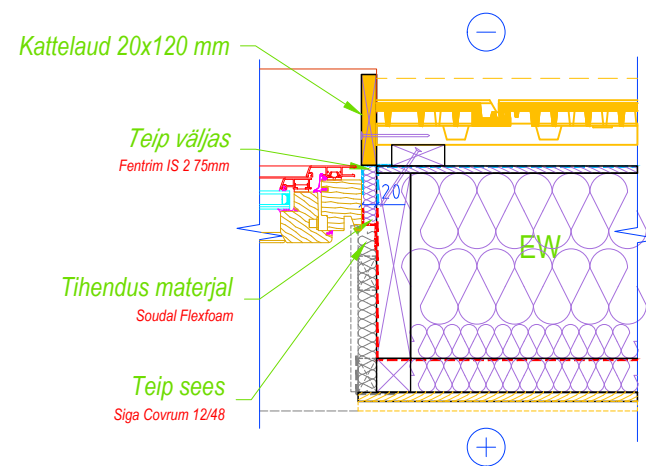
● - Paigaldada platsil

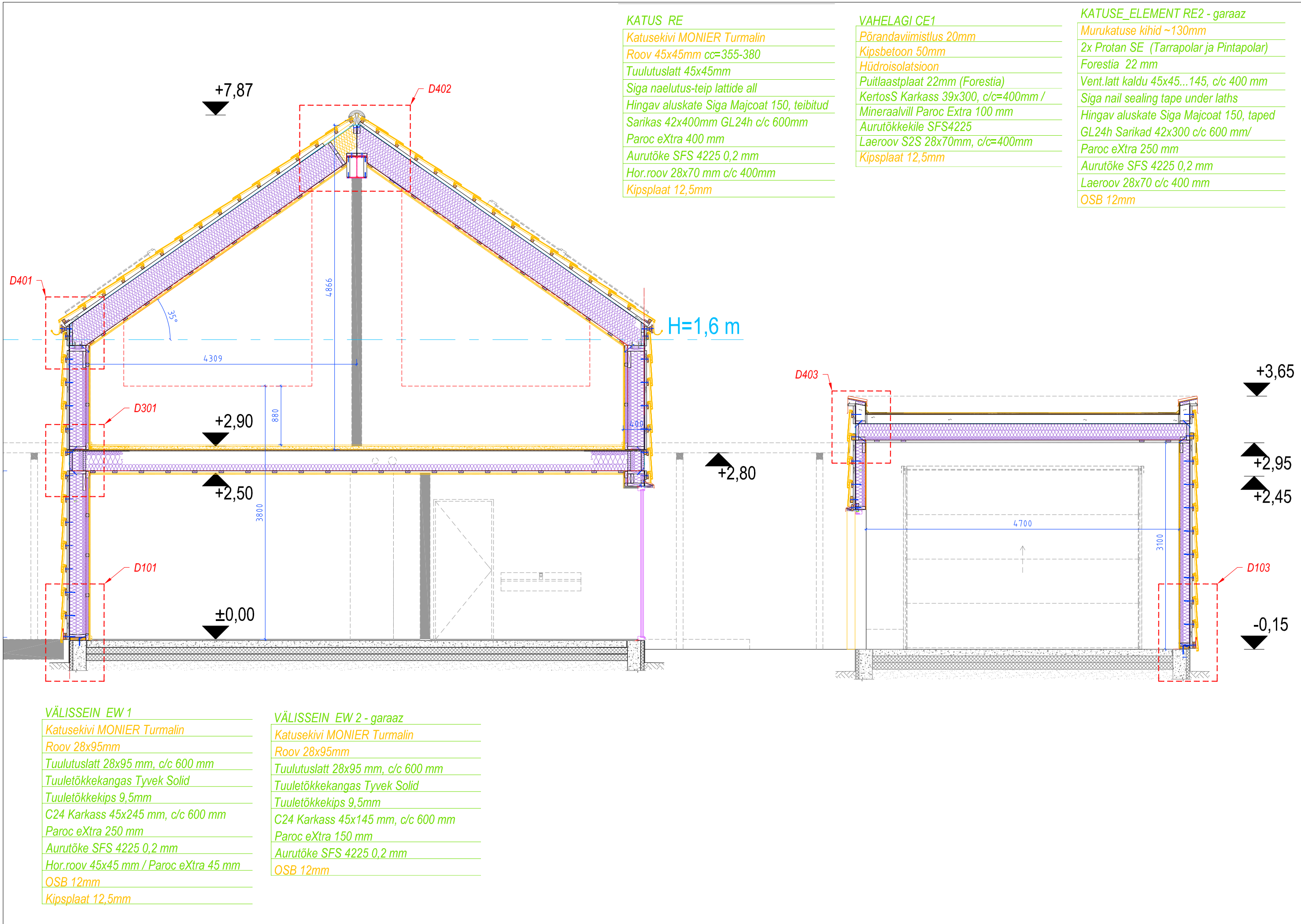


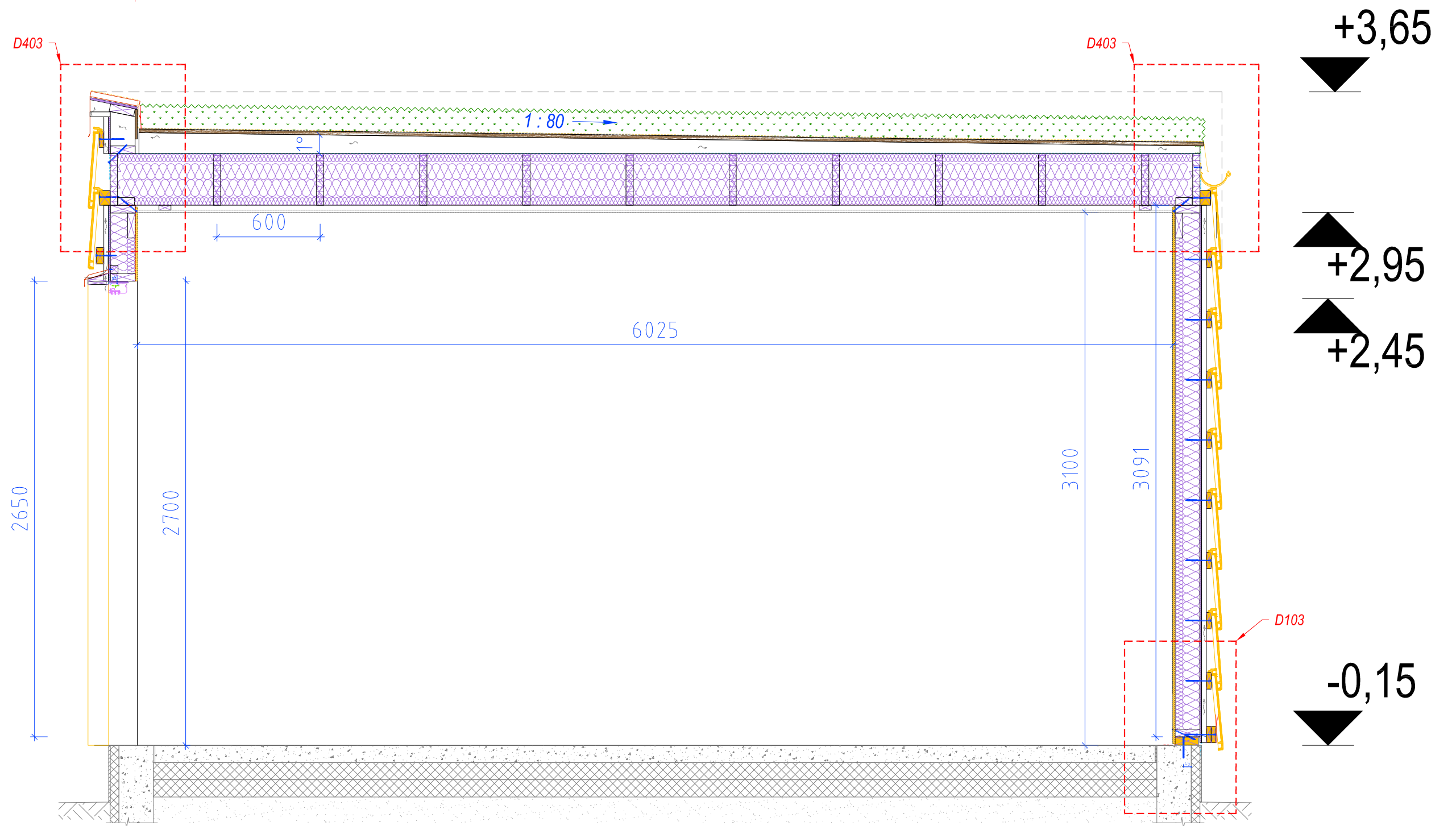
Hor.lõige katuse kohalt

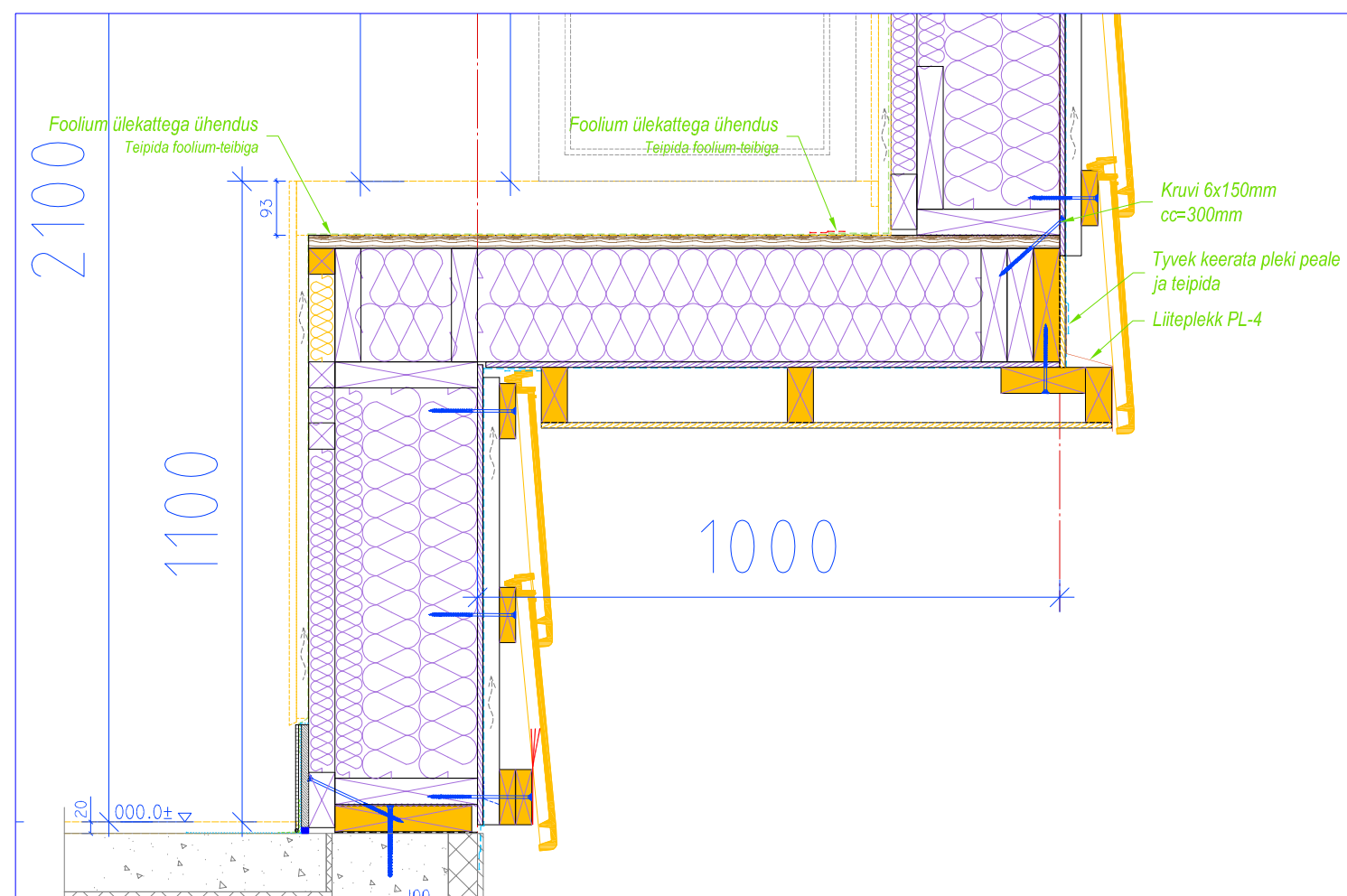
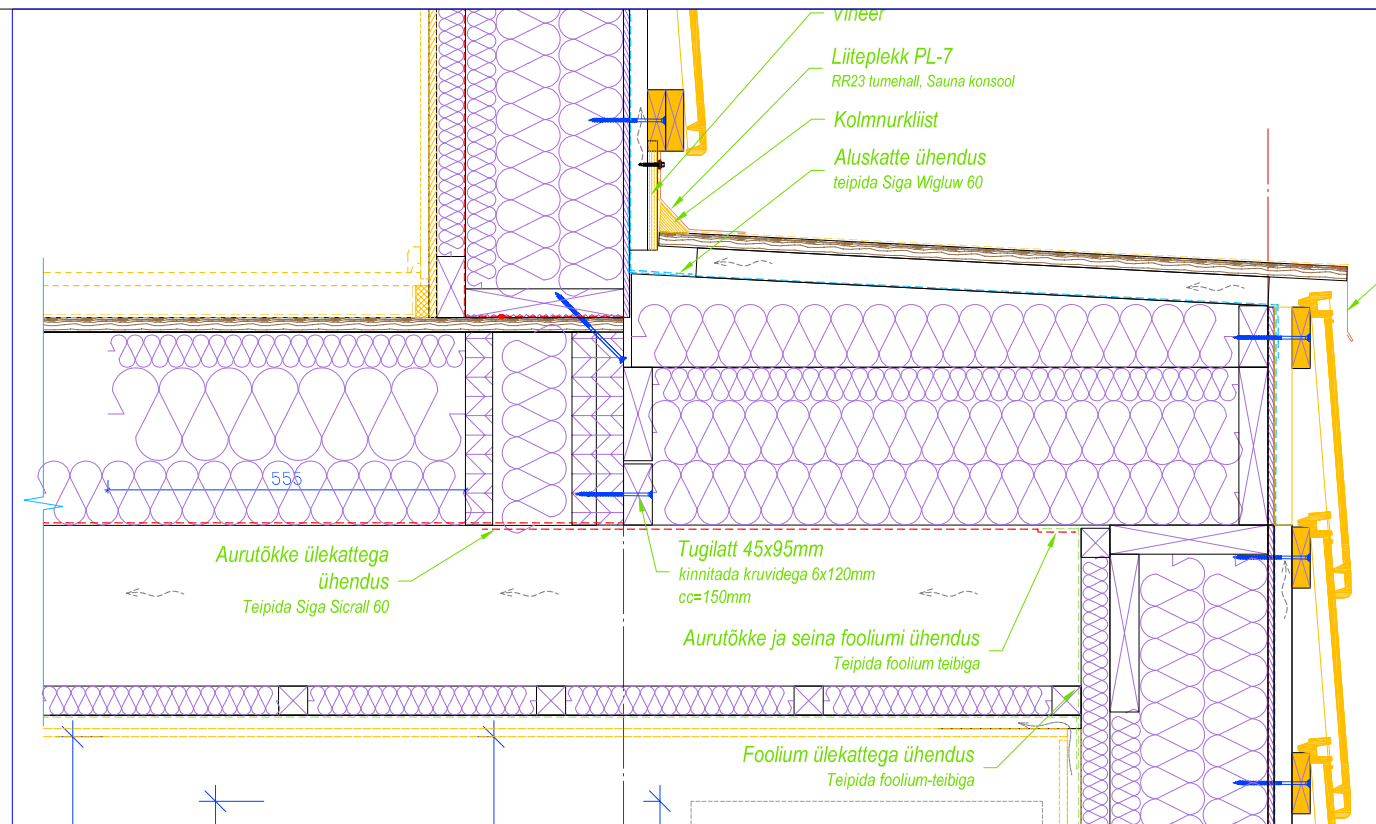
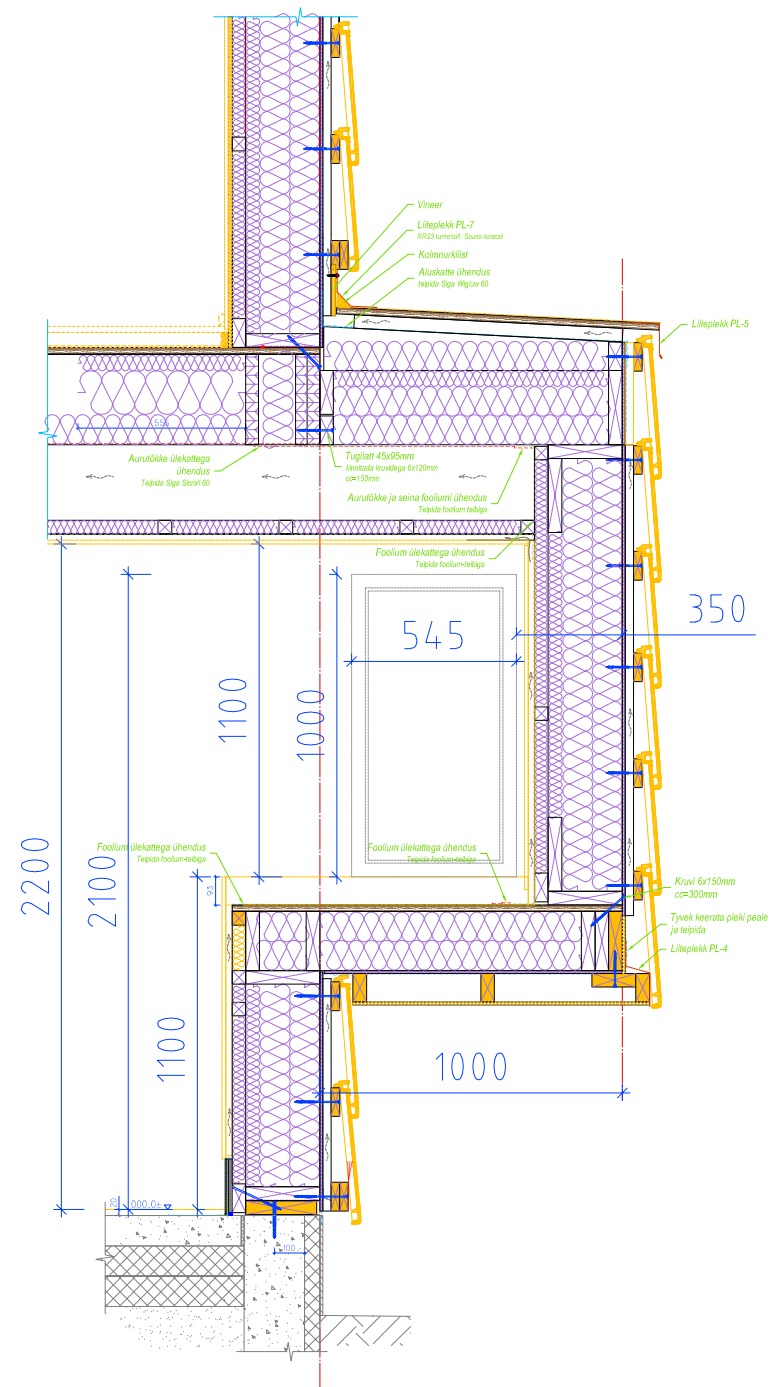


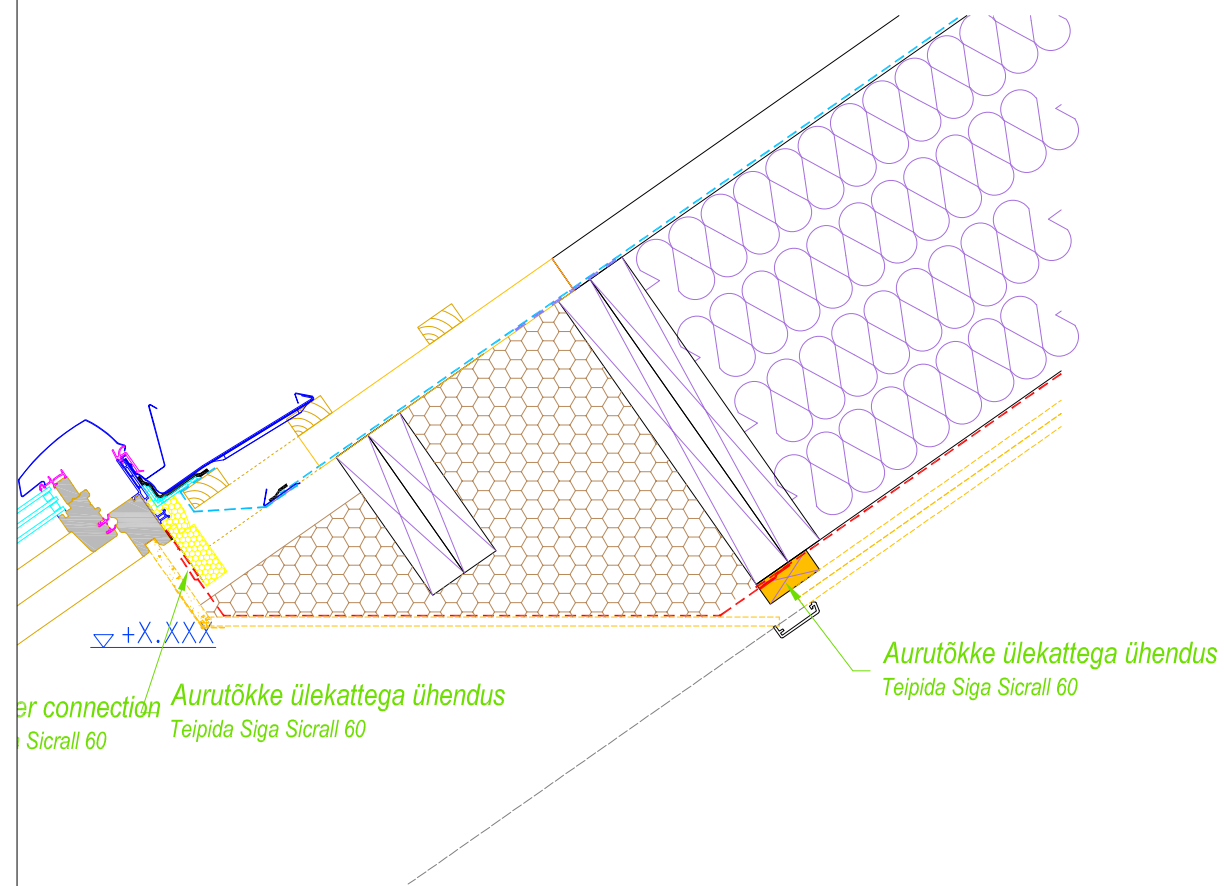
Hor.lõige välisseina kohalt







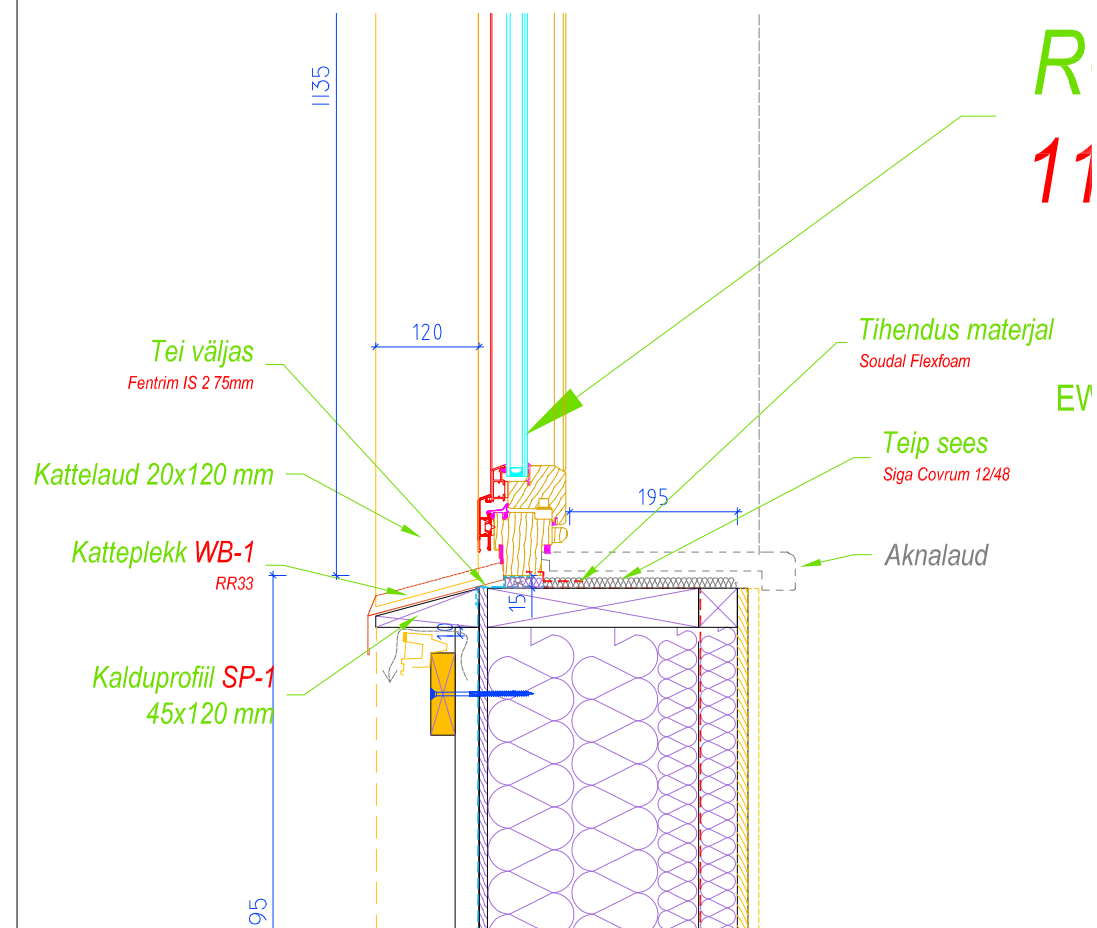




er connection
Sicrall 60

Aurutõkke ülekatttega ühendus
Teipida Siga Sicrall 60

Aurutõkke ülekatttega ühendus
Teipida Siga Sicrall 60



R
11

EV

Tei väljas
Fentrim IS 2 75mm

Kattelaud 20x120 mm

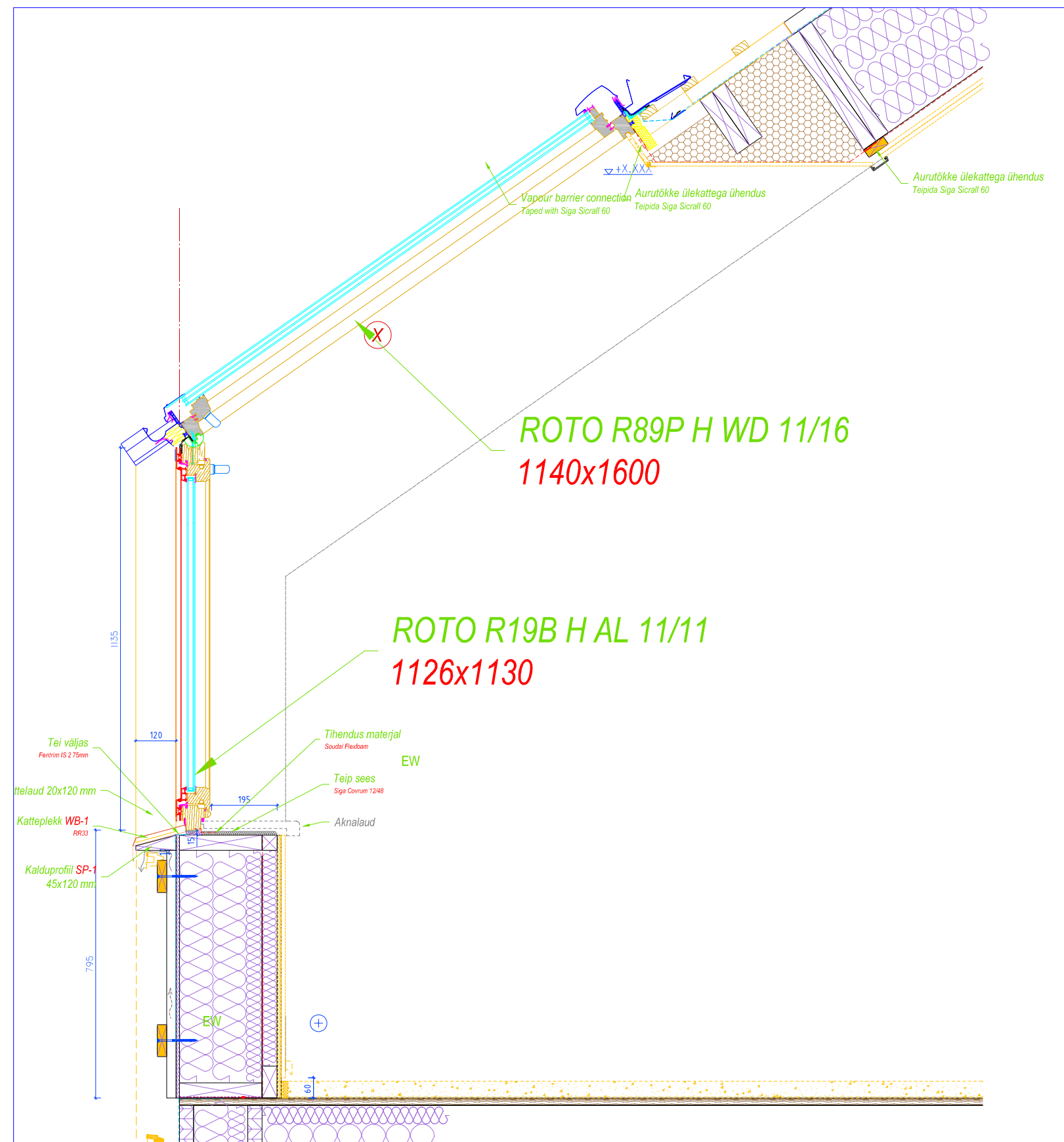
Katteplekk WB-1
RR33

Kalduprofiil SP-1
45x120 mm

Tihendus materjal
Soudal Flexfoam

Teip sees
Siga Covrum 12/48

Aknalaud



ROTO R89P H WD 11/16
1140x1600

ROTO R19B H AL 11/11
1126x1130

Tei väljas
Fentrim IS 2 75mm

Kattelaud 20x120 mm

Katteplekk WB-1
RR33

Kalduprofiil SP-1
45x120 mm

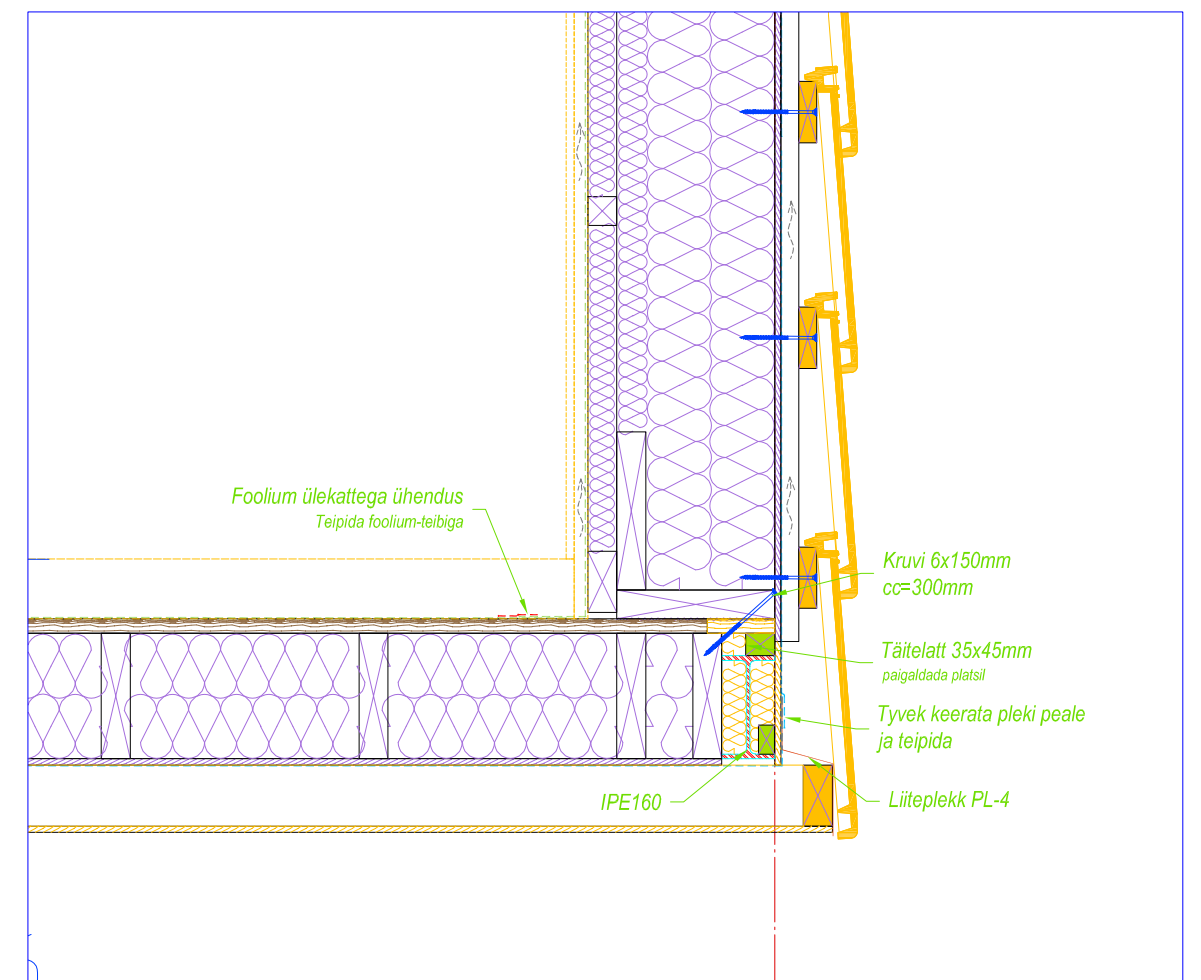
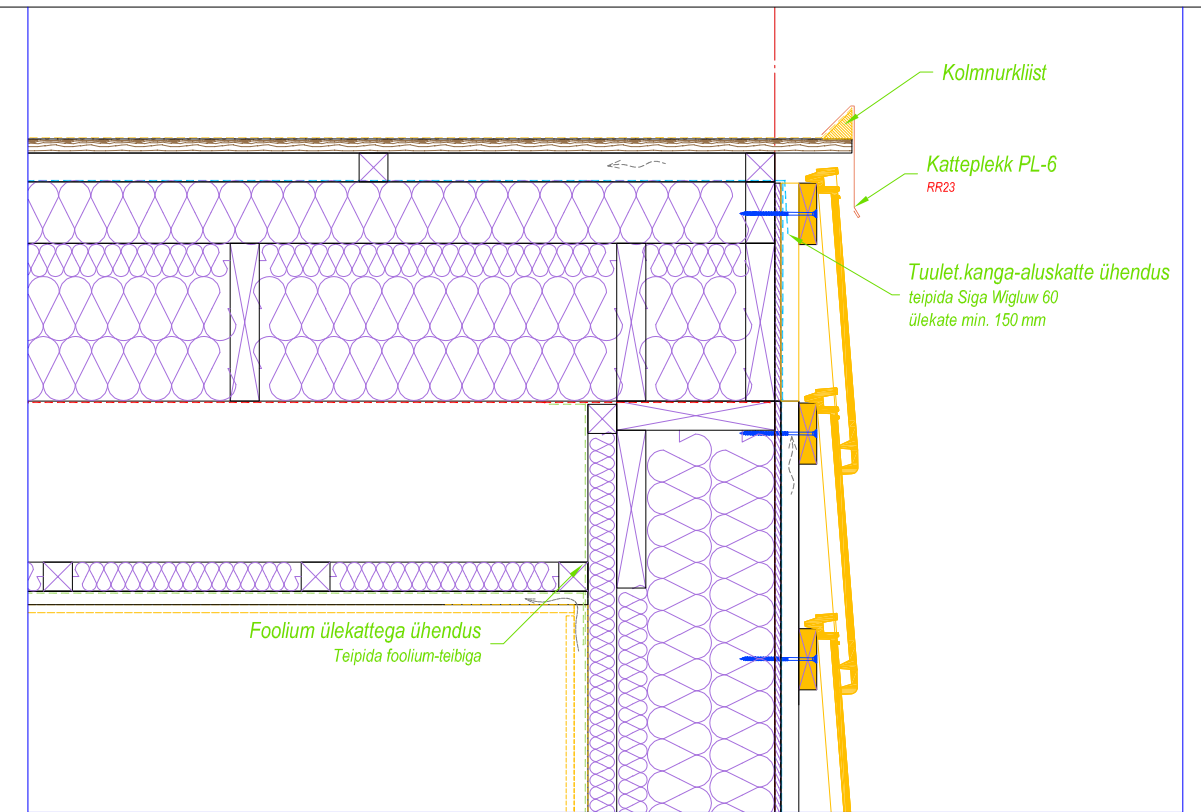
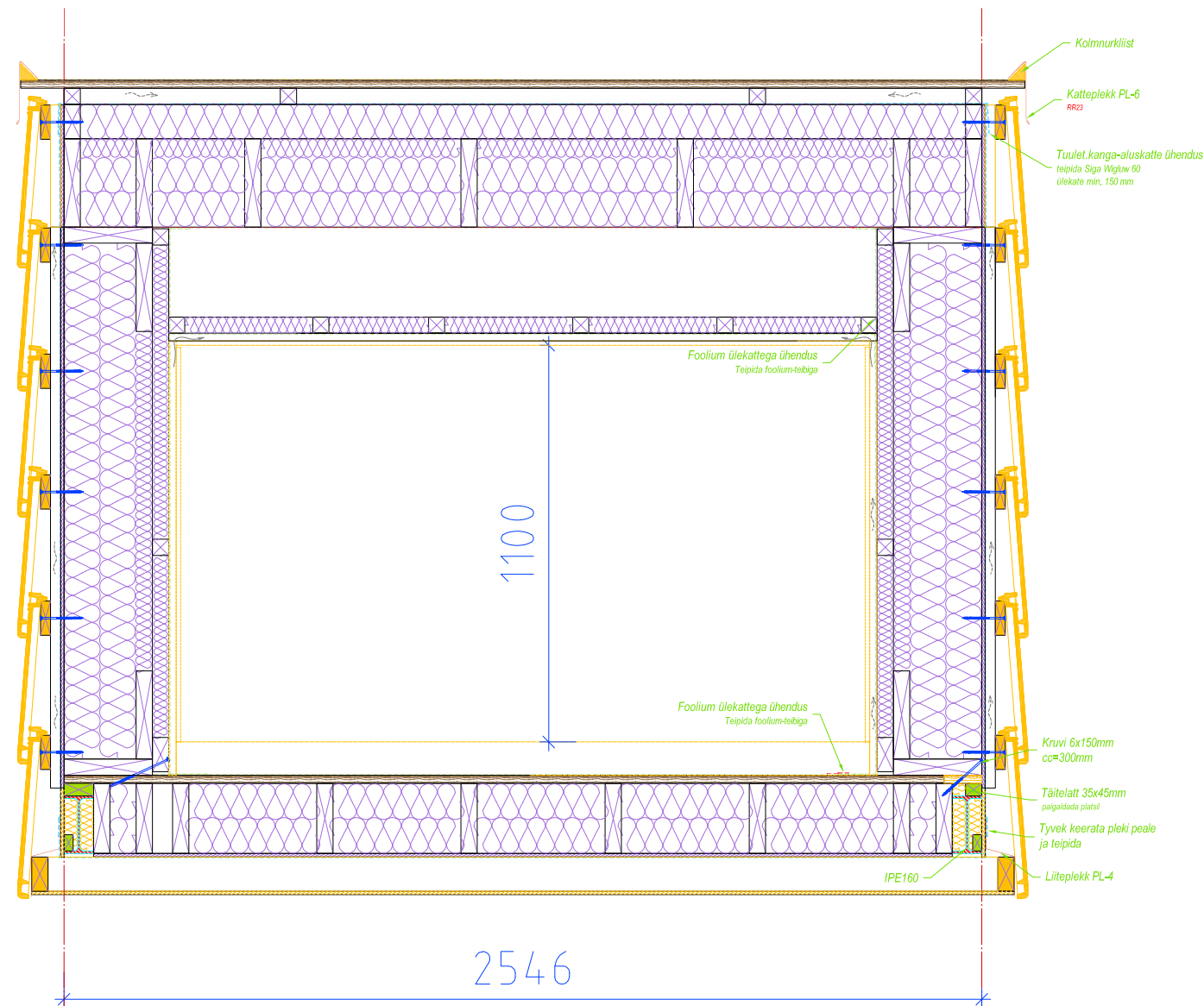
Tihendus materjal
Soudal Flexfoam

Teip sees
Siga Covrum 12/48

Aknalaud

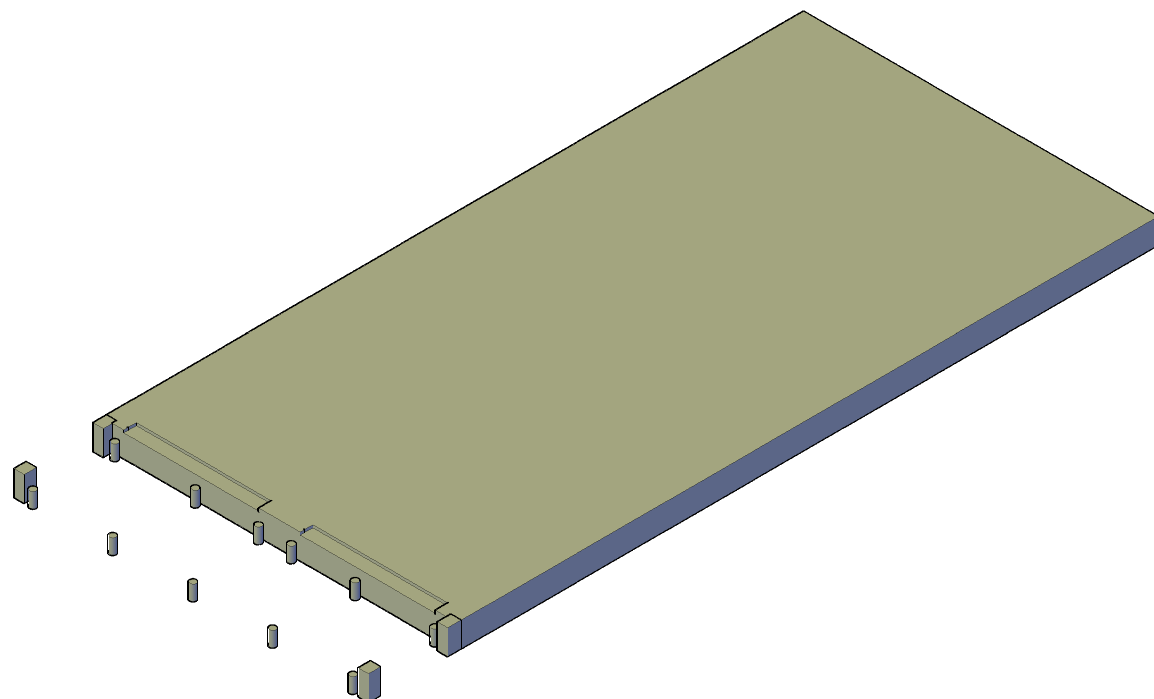
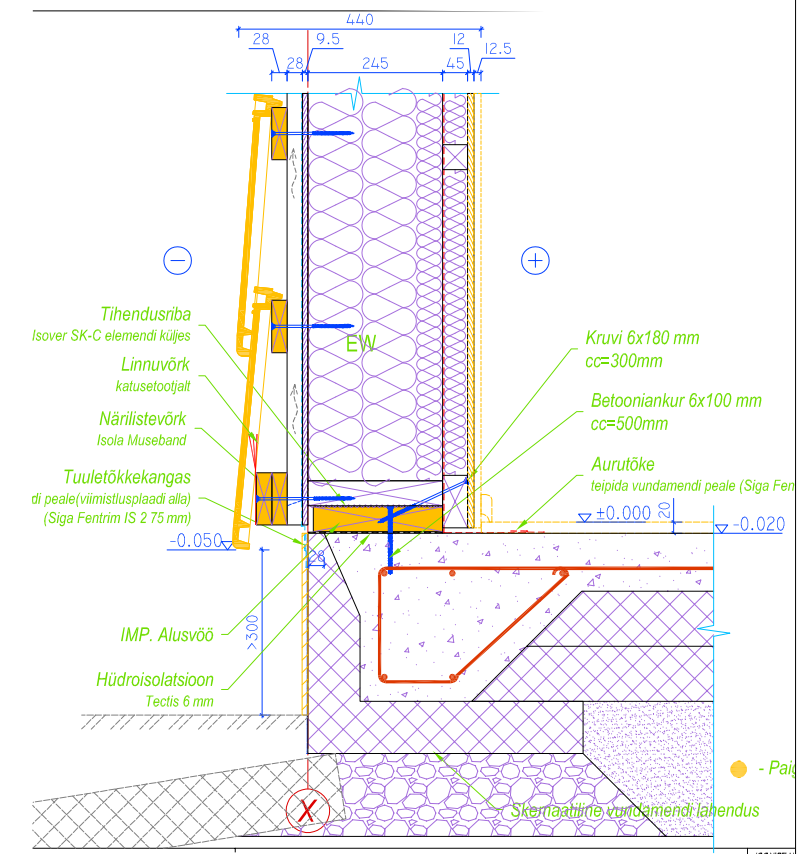
EW

+



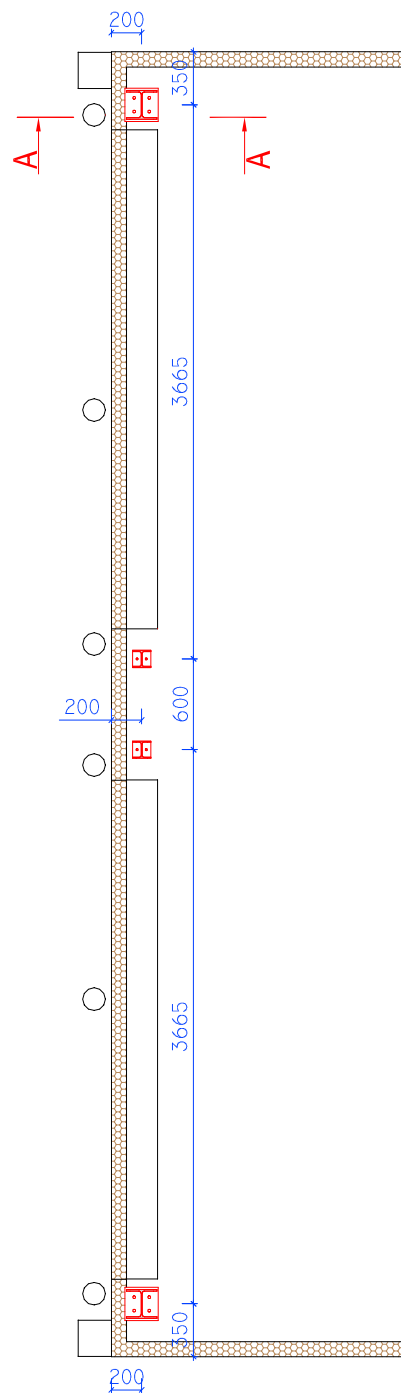


Tehnilised joonised

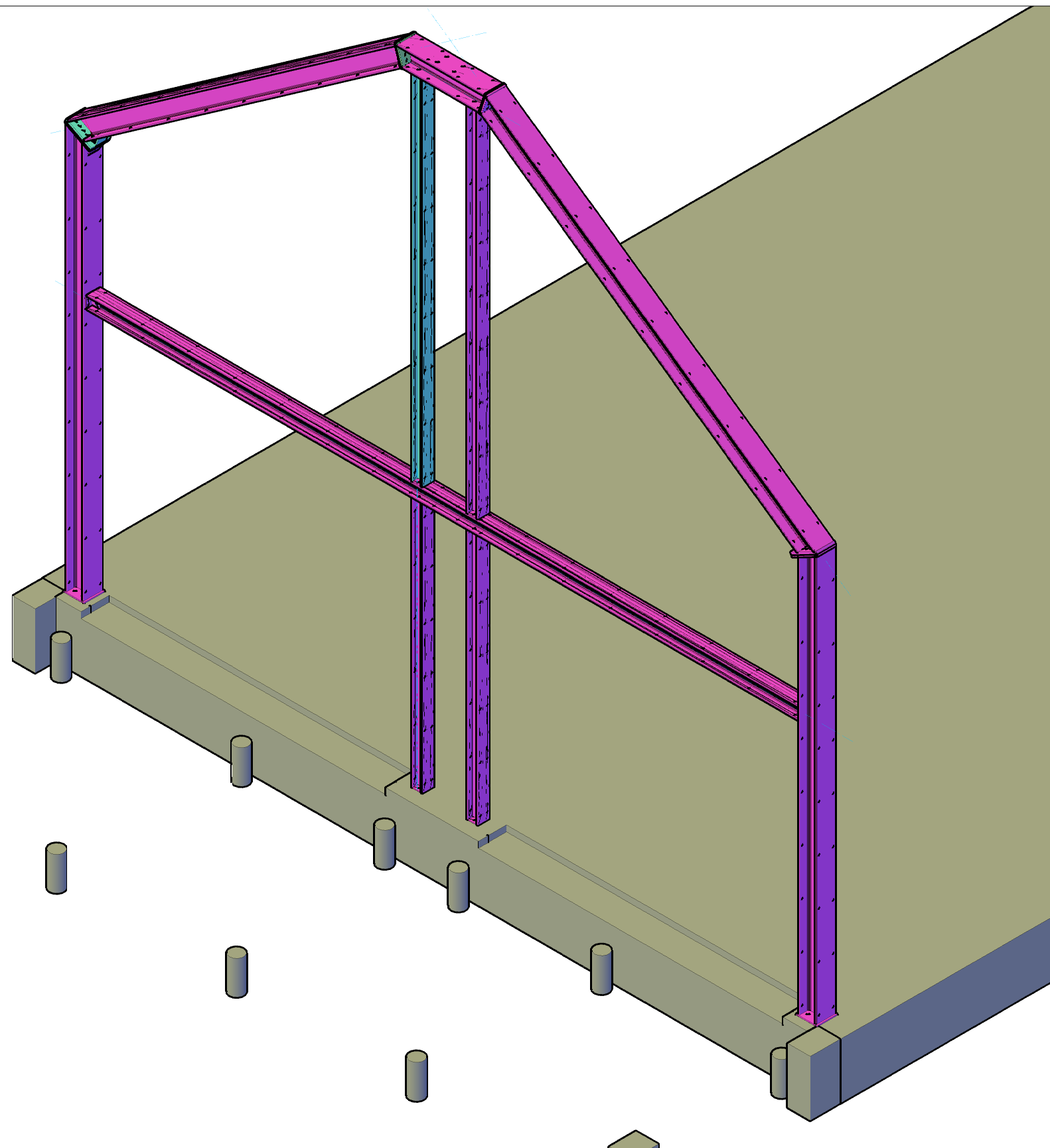
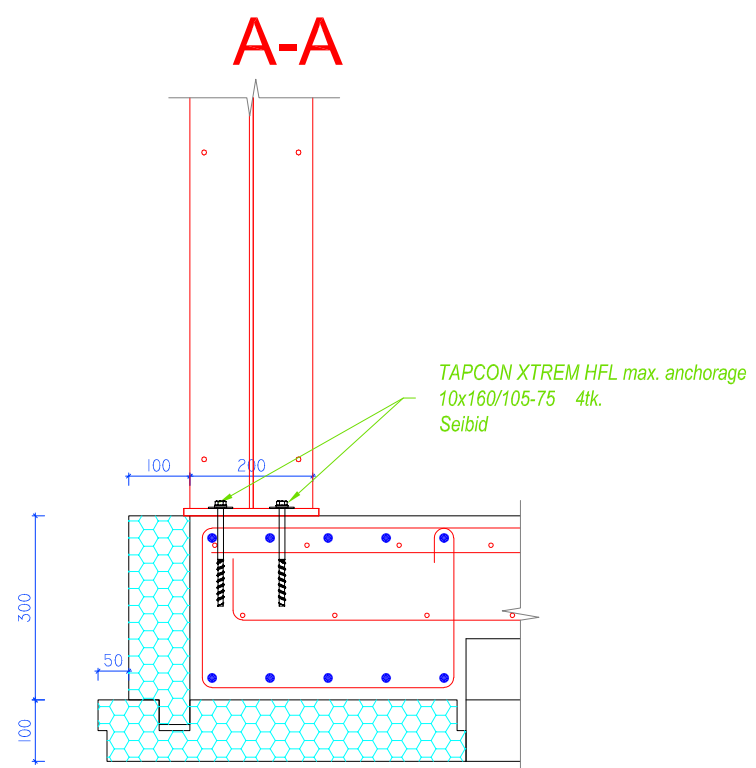


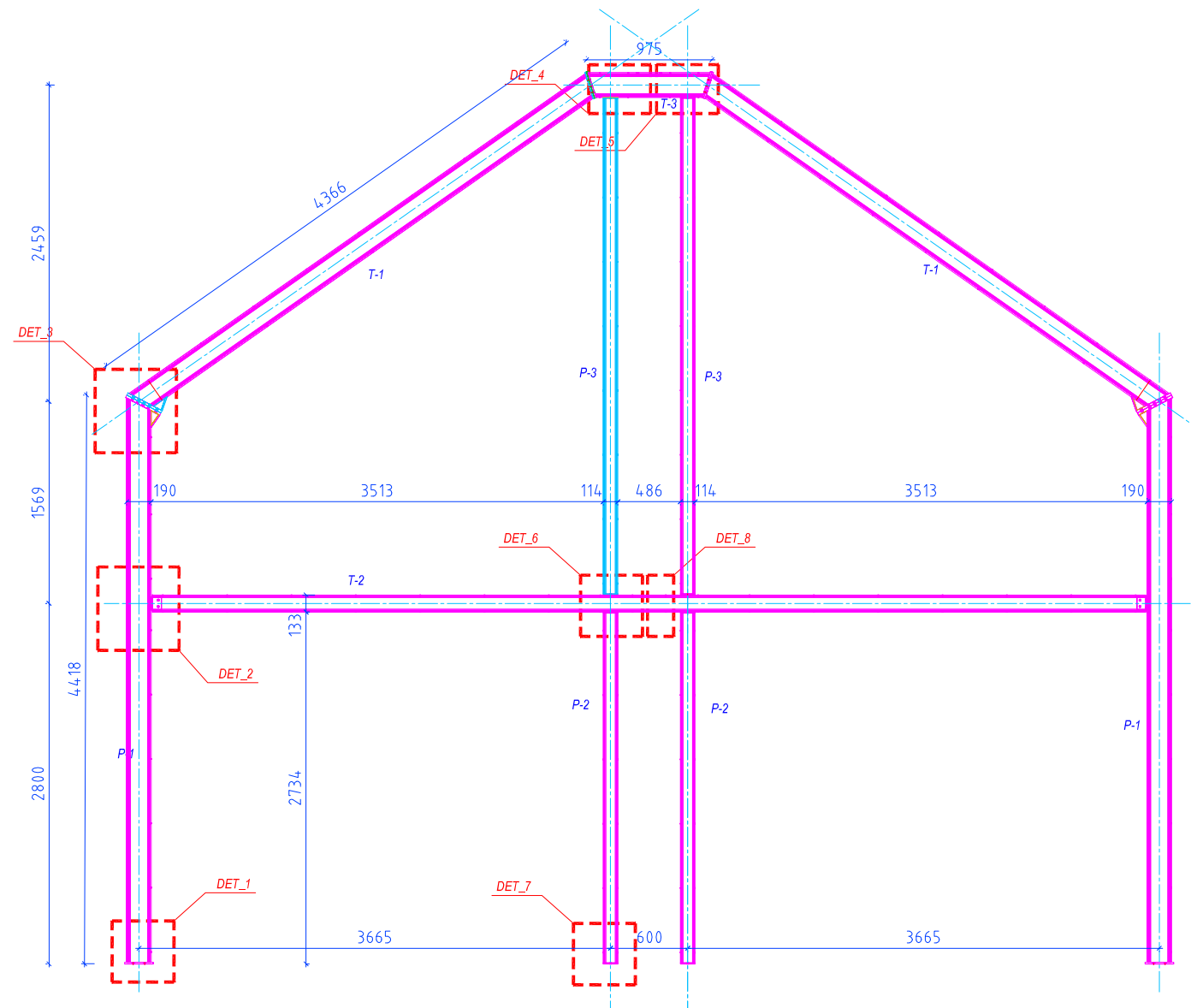


1. Plaadi pealispinna kõrgus -0,02=35,43 m; postide Ø150 mm pealispinna kõrgused -0,213 m (plastik terrassijalg).
2. Mõõdud antud EPS L-ploki välisserva (ilma sokliplaadita).
3. Betooni tugevusklass C25/30, põrandaplaadi alla paigaldada polüetüleenile paksusega 0,2 mm, servad kinni teipida, ülekate min 200 mm.
4. Armatuuri tugevusklass B500B.
5. Vundamendi keskkonnaklass XC2, armatuuri nimikaitsekiht 35 mm.
6. Armatuuri ülekattepikkus ja ankurduspikkus 40x varda läbimõõt (Ø16-640 mm, Ø8-320 mm, Ø6-240 mm).
7. Tasasustolerants klass A
8. Vundamendi ehitamise ajal tuleb süvendisse valgunud põhjavesi ja sademevesi süvendist ära juhtida ja hoida kaevik kuivana!
9. Mullatöödega ei tohi rikkuda looduslikku pinnasestruktuuri süvendis. Kui mullatööde käigus pinnas kobestub, tuleb see asendada tihendatud killustikalusega!
10. Mullatööde teostus peab vastama Maa RYL 2010 nõuetele ja muudele kehtivatele standarditele.

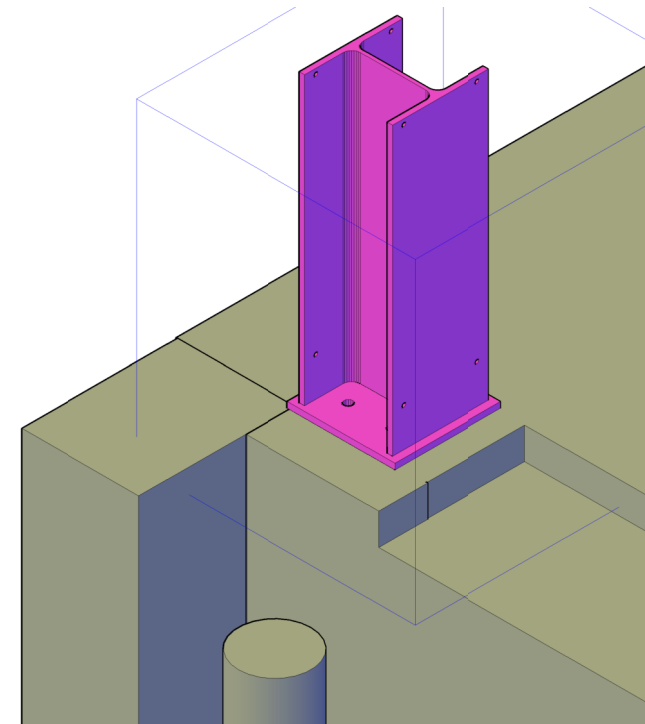


Mõõdud on natud terasraami postide tsentrisse!

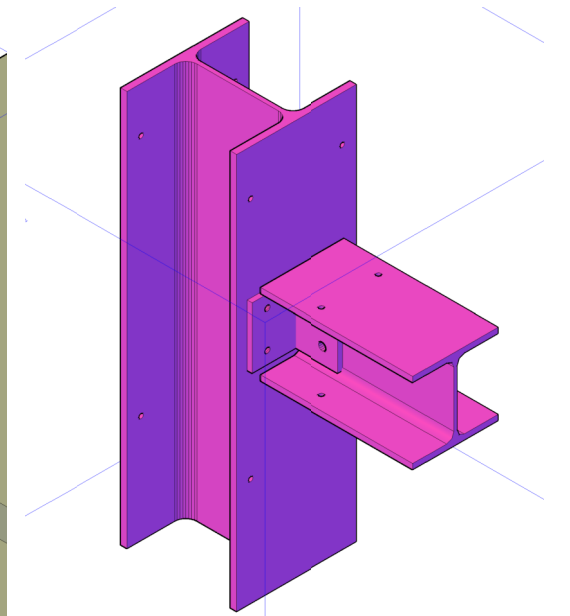




DET_1

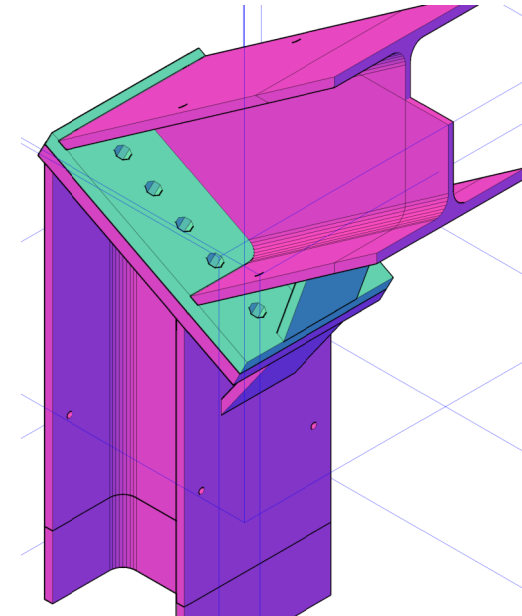


DET_2



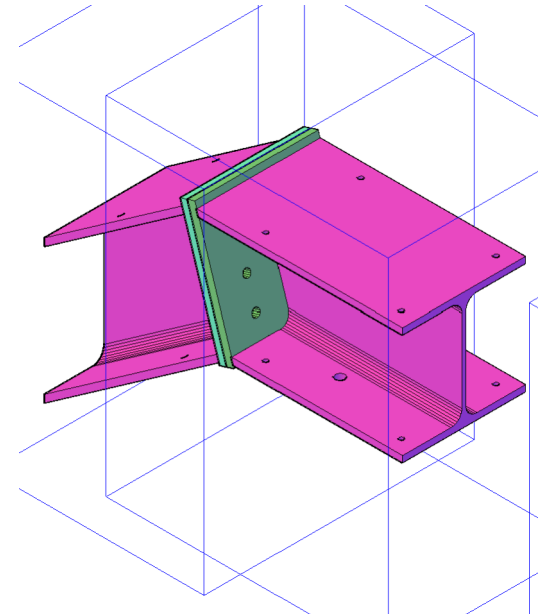
Polt M8 (8.8) 4tk +
Polt M12 (8.8) 2tk;
+ seibid

DET_3



Liites on TAPCON XTREM HFL max. anchorage
10x160/105-75 4tk.
Seibid

DET_4



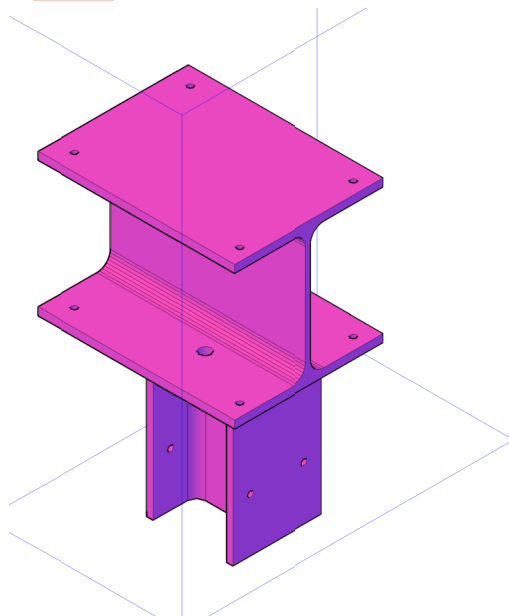
Polt M16 (10.9) 10tk +
seibid

Ühenduspoldid M18mm (8.8)
L=65mm (20tk)+seibid
Ühenduspoldid M16mm (8.8)
L=50mm (6tk)+seibid;
L=65mm (3tk)+seibid

Polt M12 (8.8) 6tk +
seibid

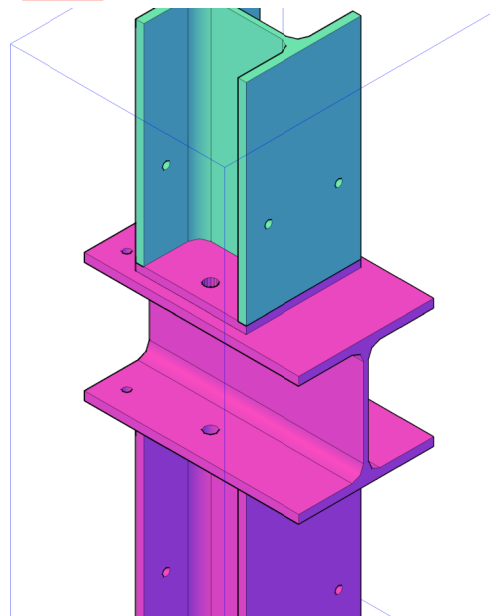
Kõikide terasdetailide klass on
S 355

DET_5

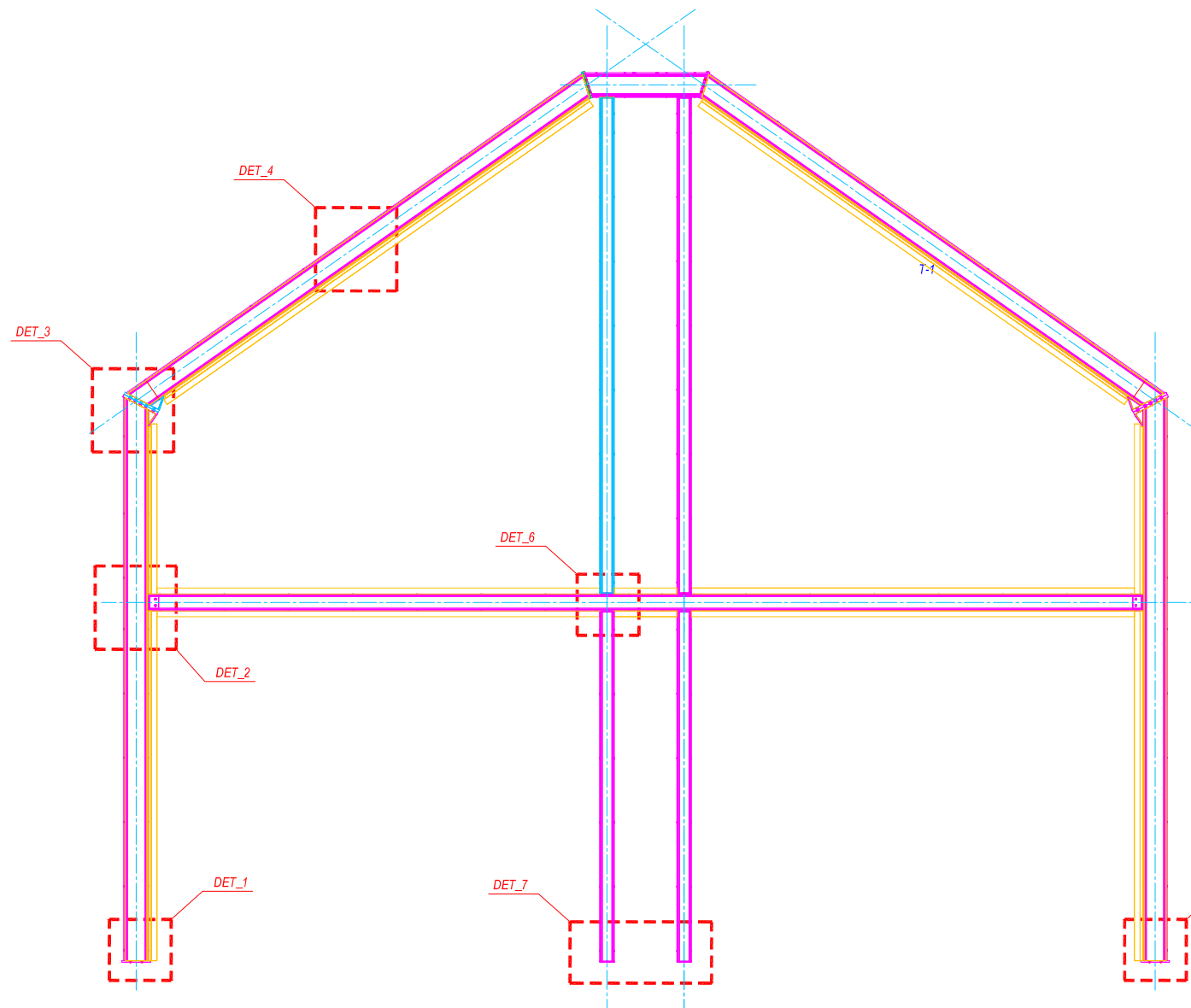


Polt M12 (8.8) 2tk +
seibid

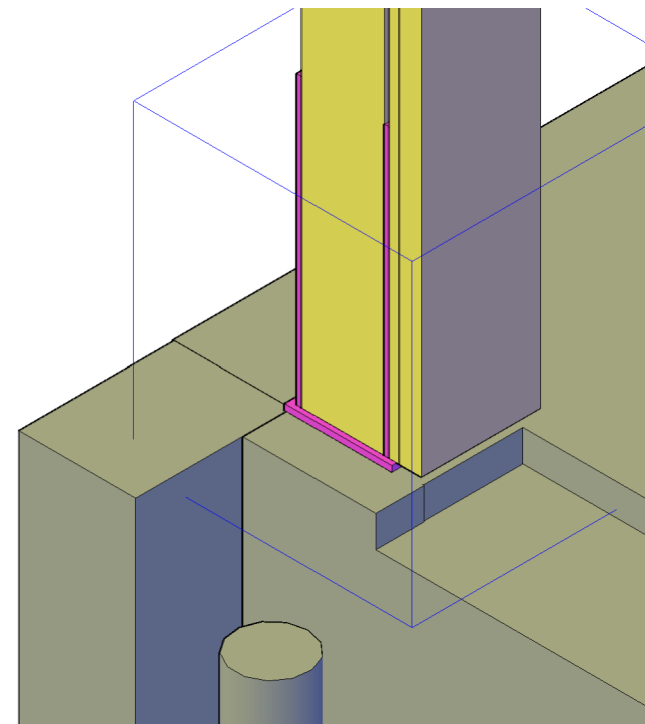
DET_6



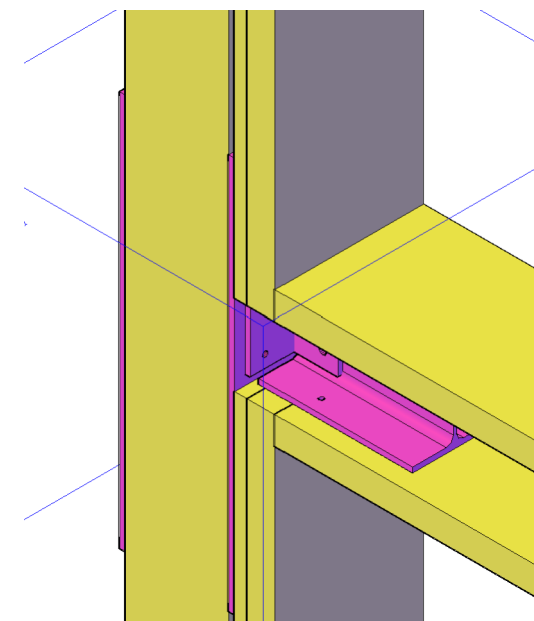
Polt M12 (8.8) 4tk +
seibid



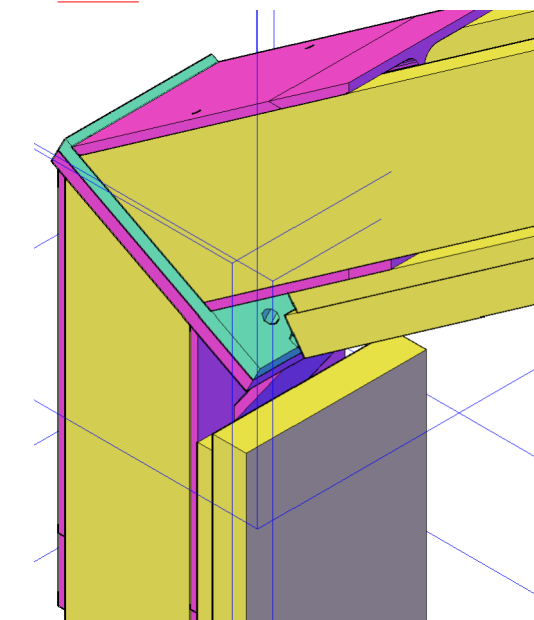
DET_1



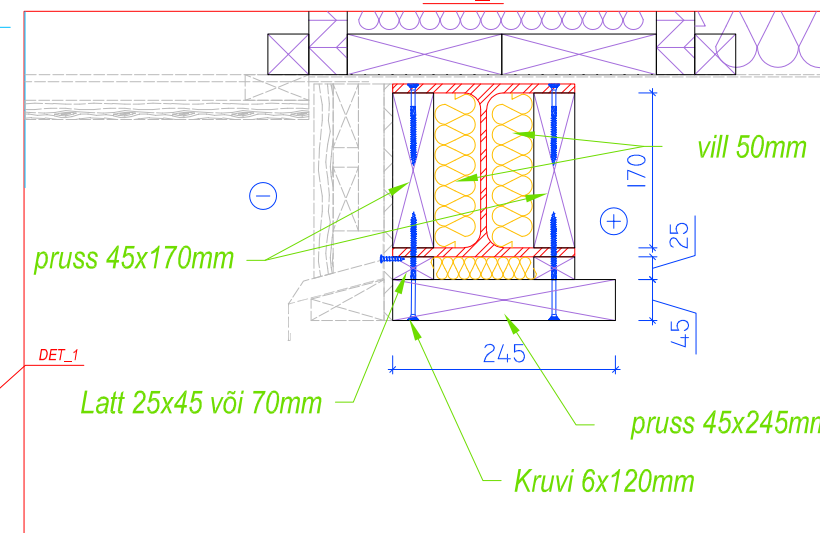
DET_2



DET_3

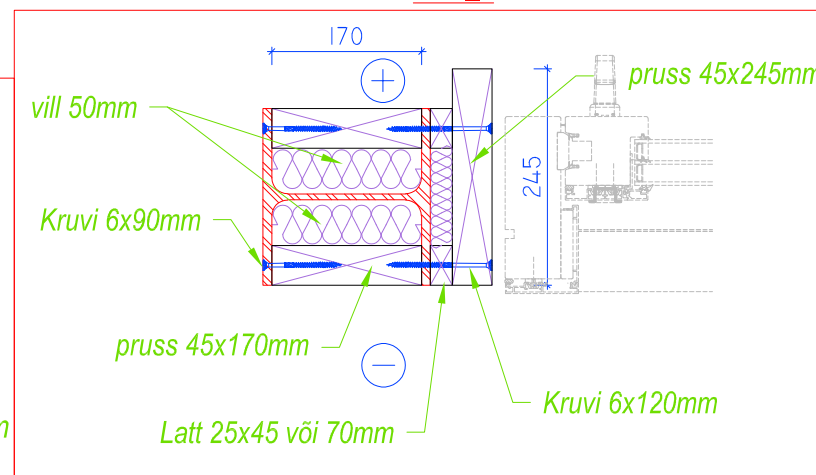


DET_4

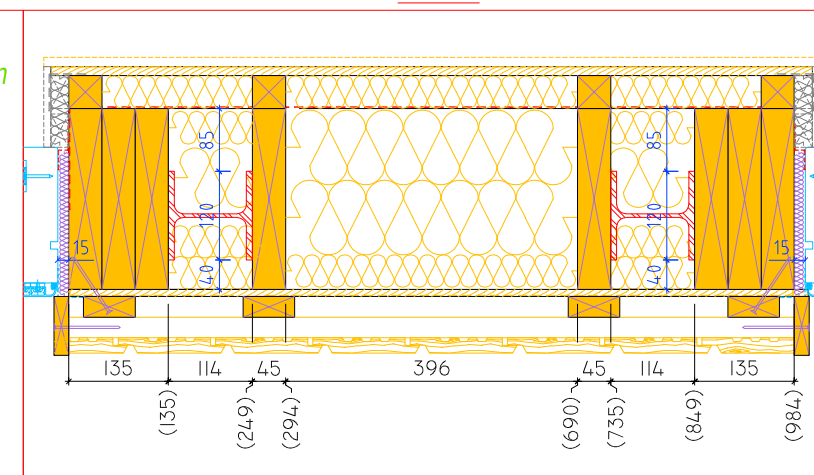


DET_1

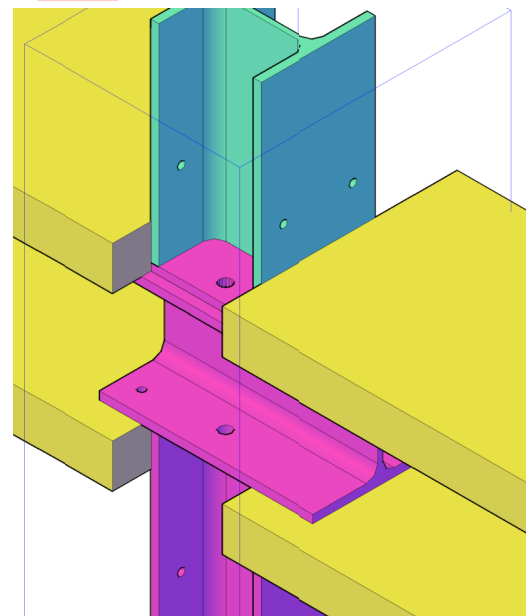
DET_1



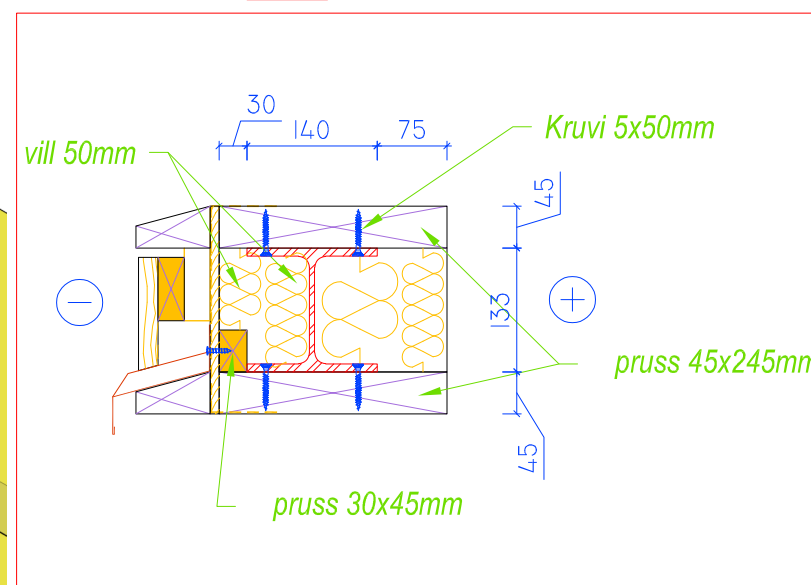
DET_7

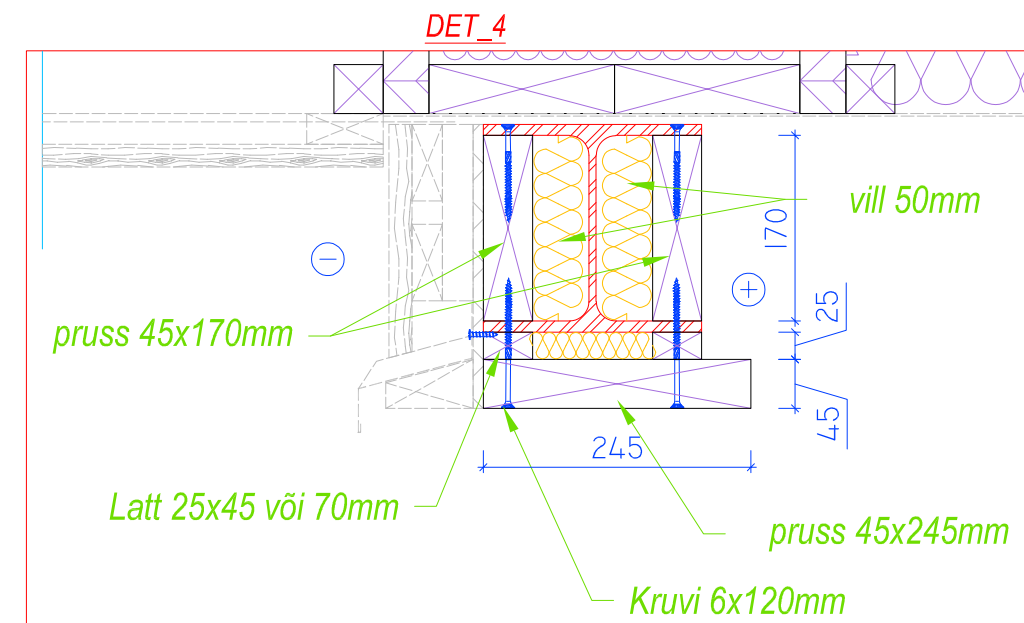
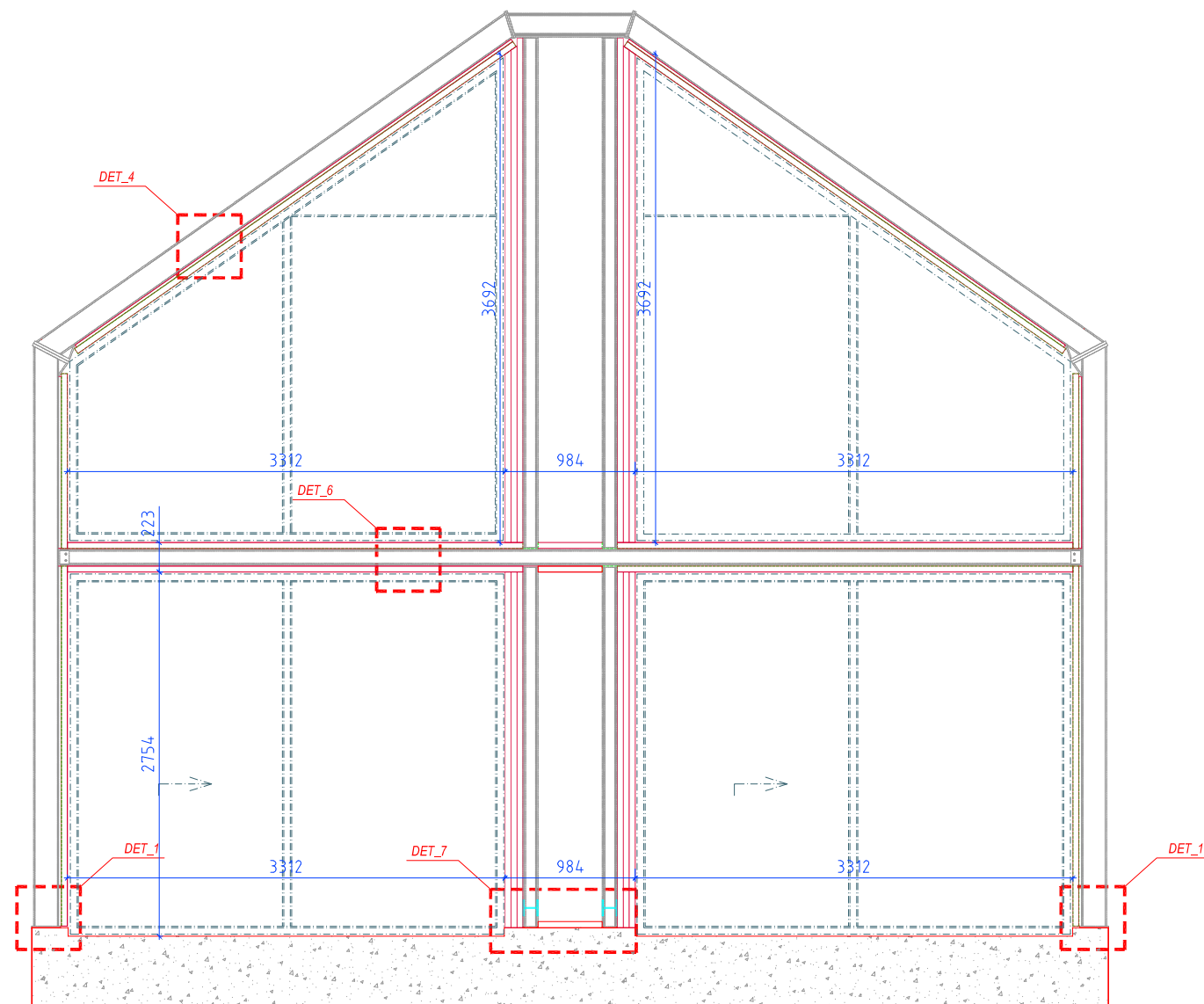


DET_6

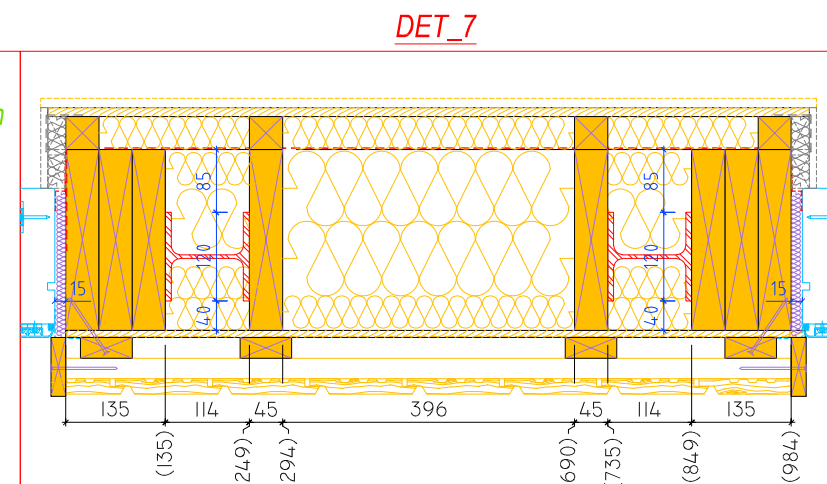
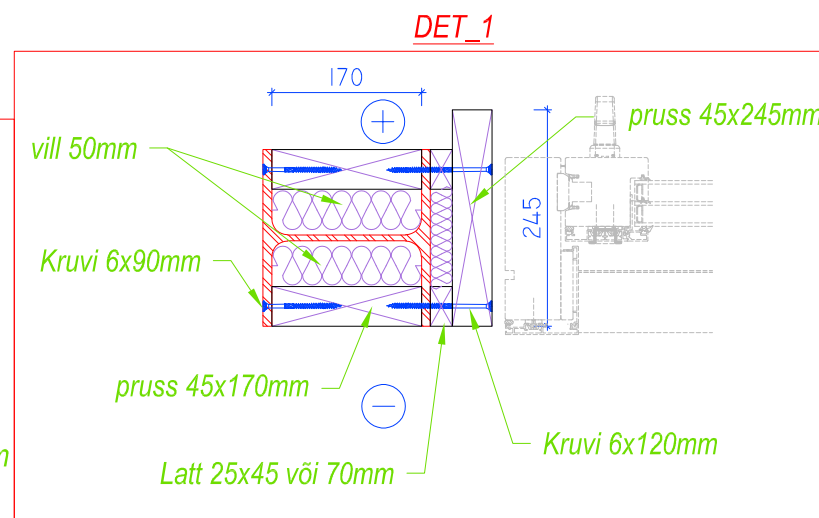
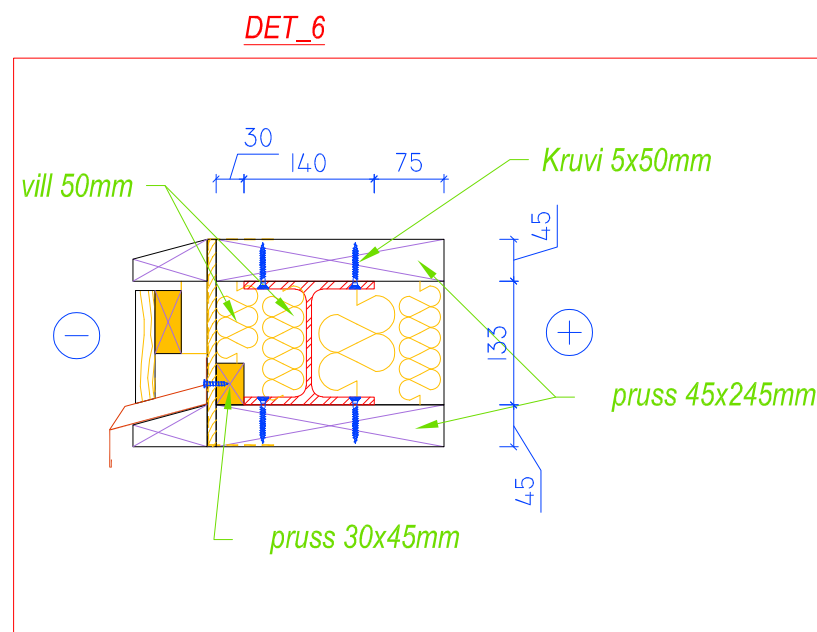


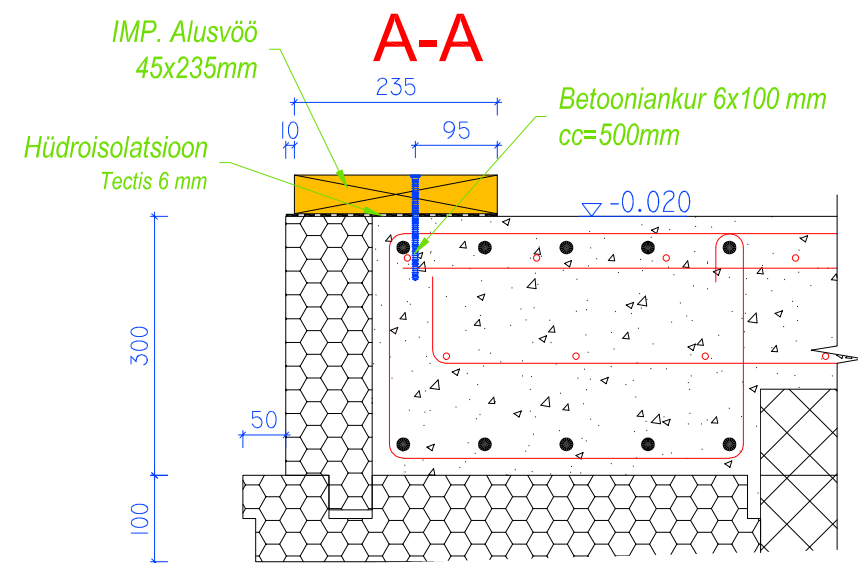
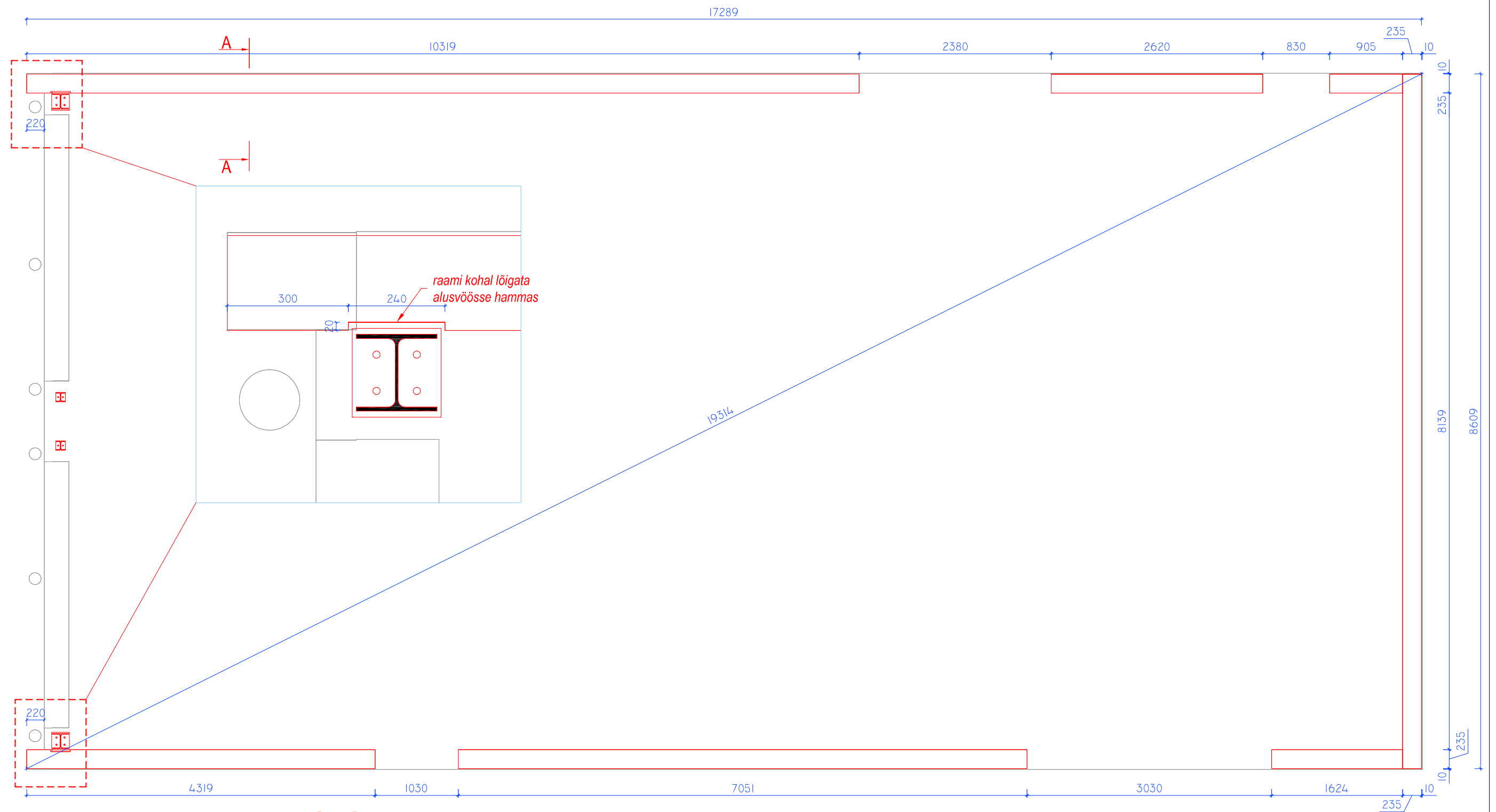
DET_6

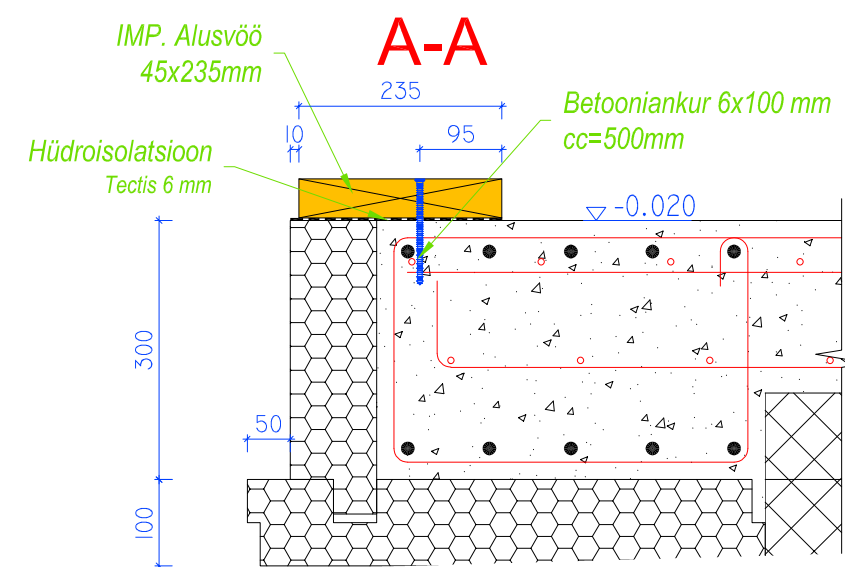
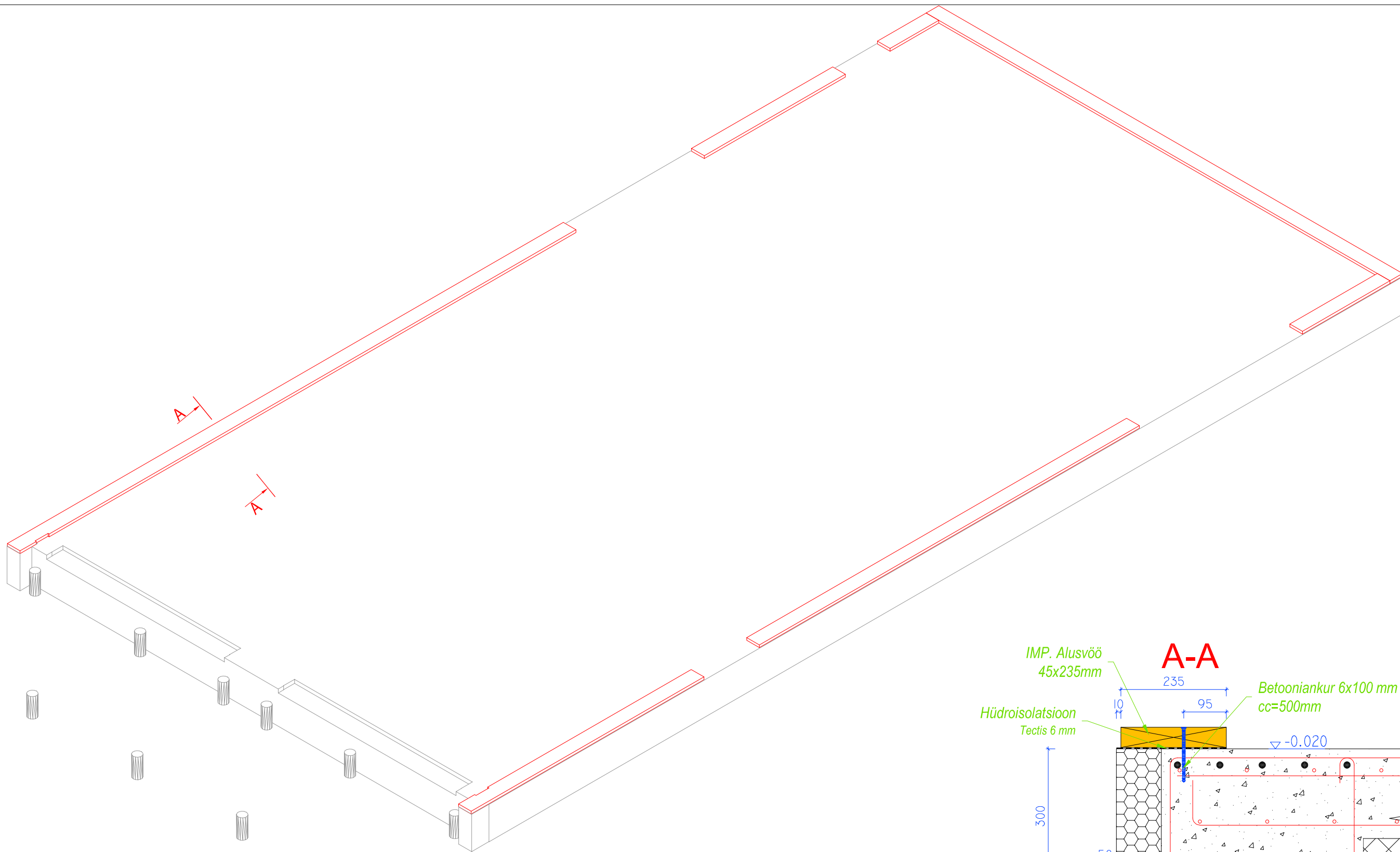


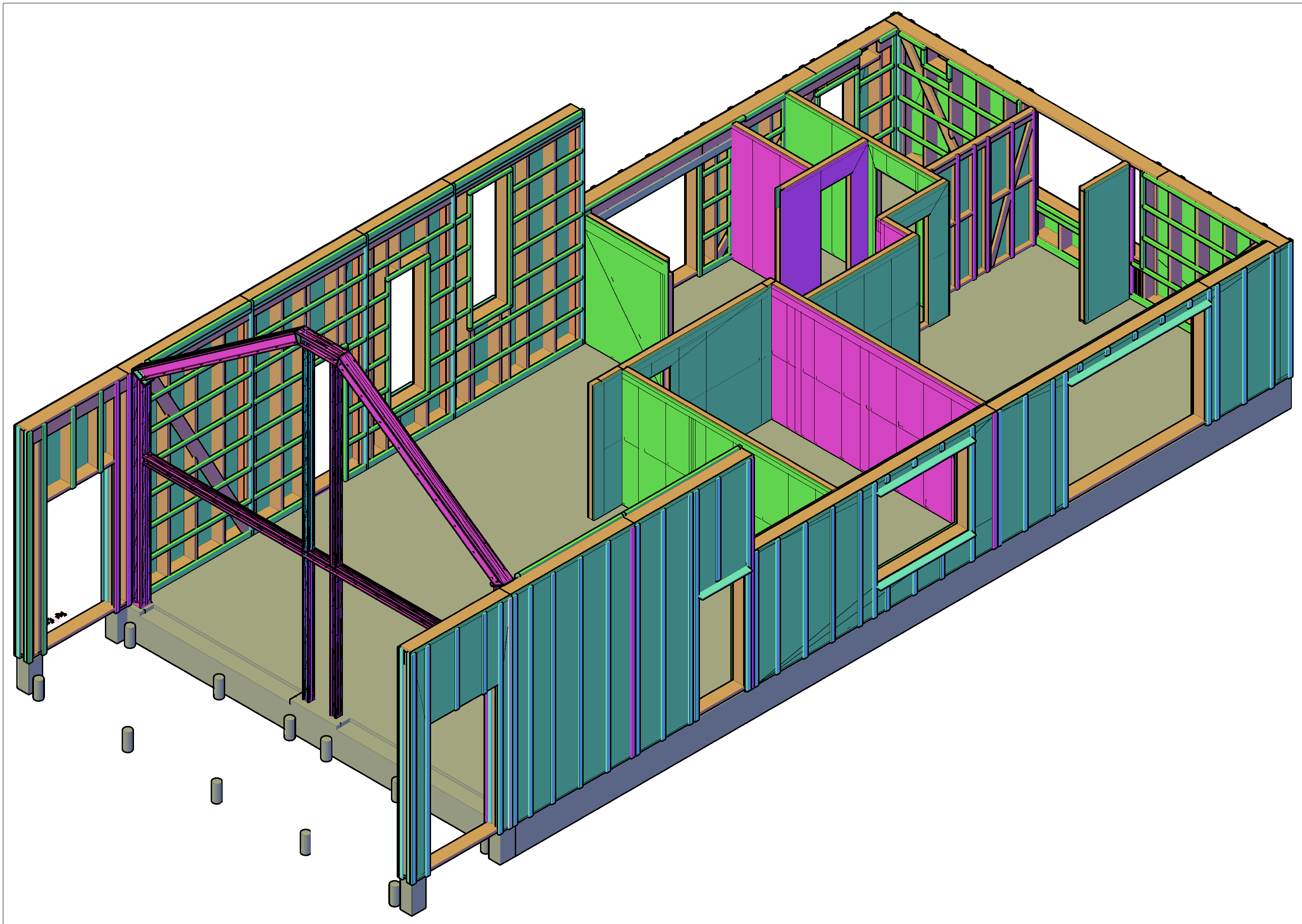


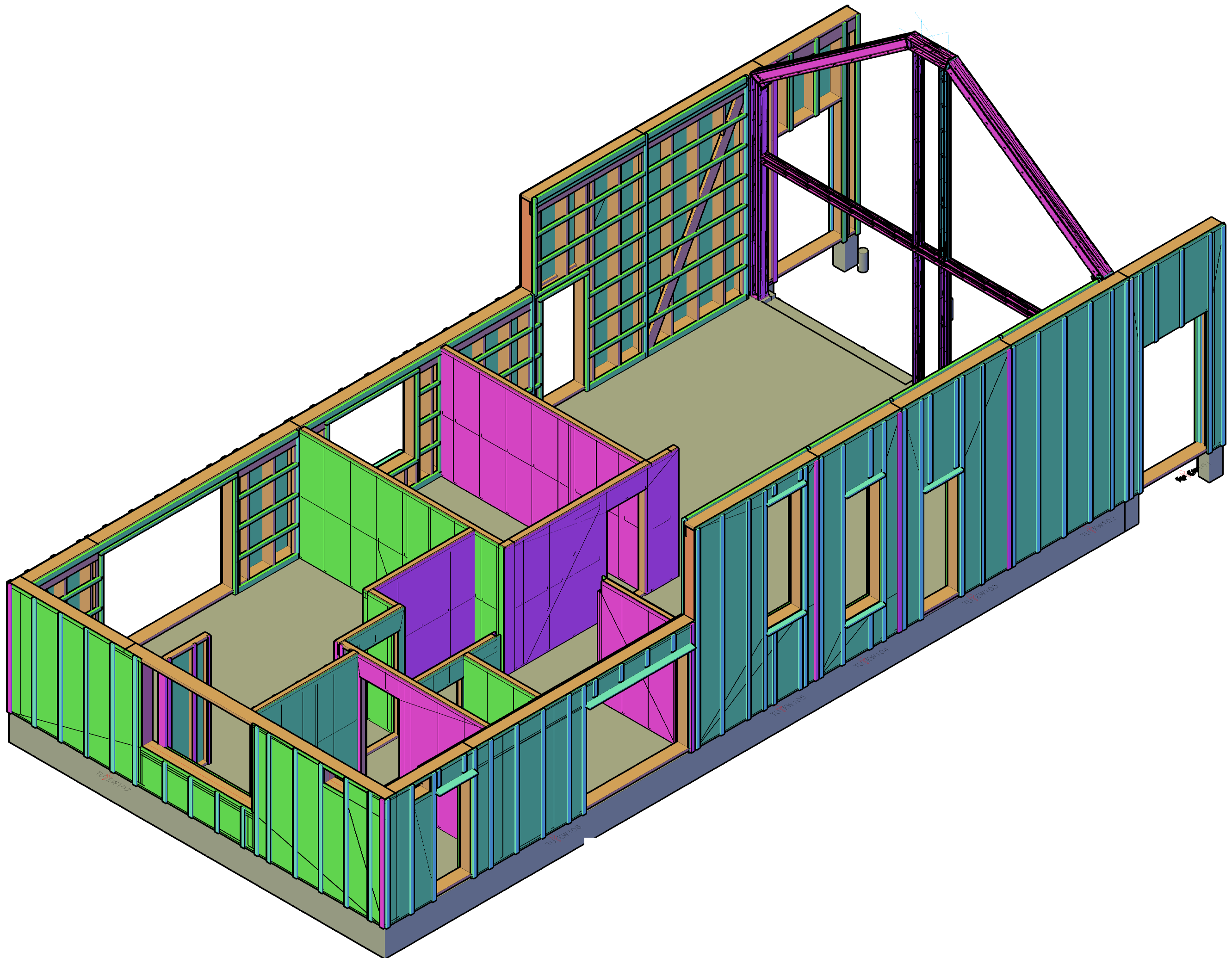
Puhtad mõõdud puitosade vahel!
Oluline, avatäidete mahutamise
seisukohalt!

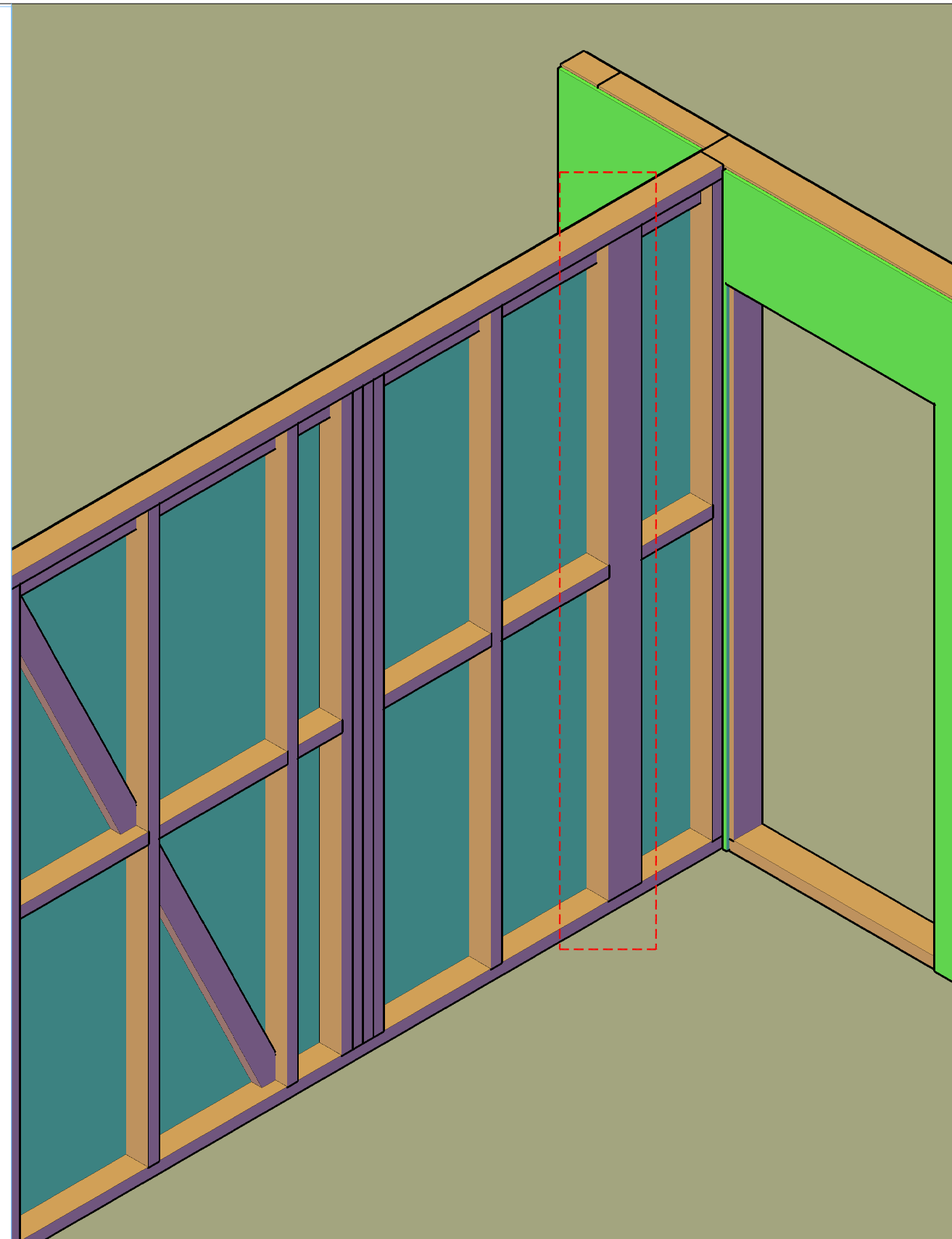
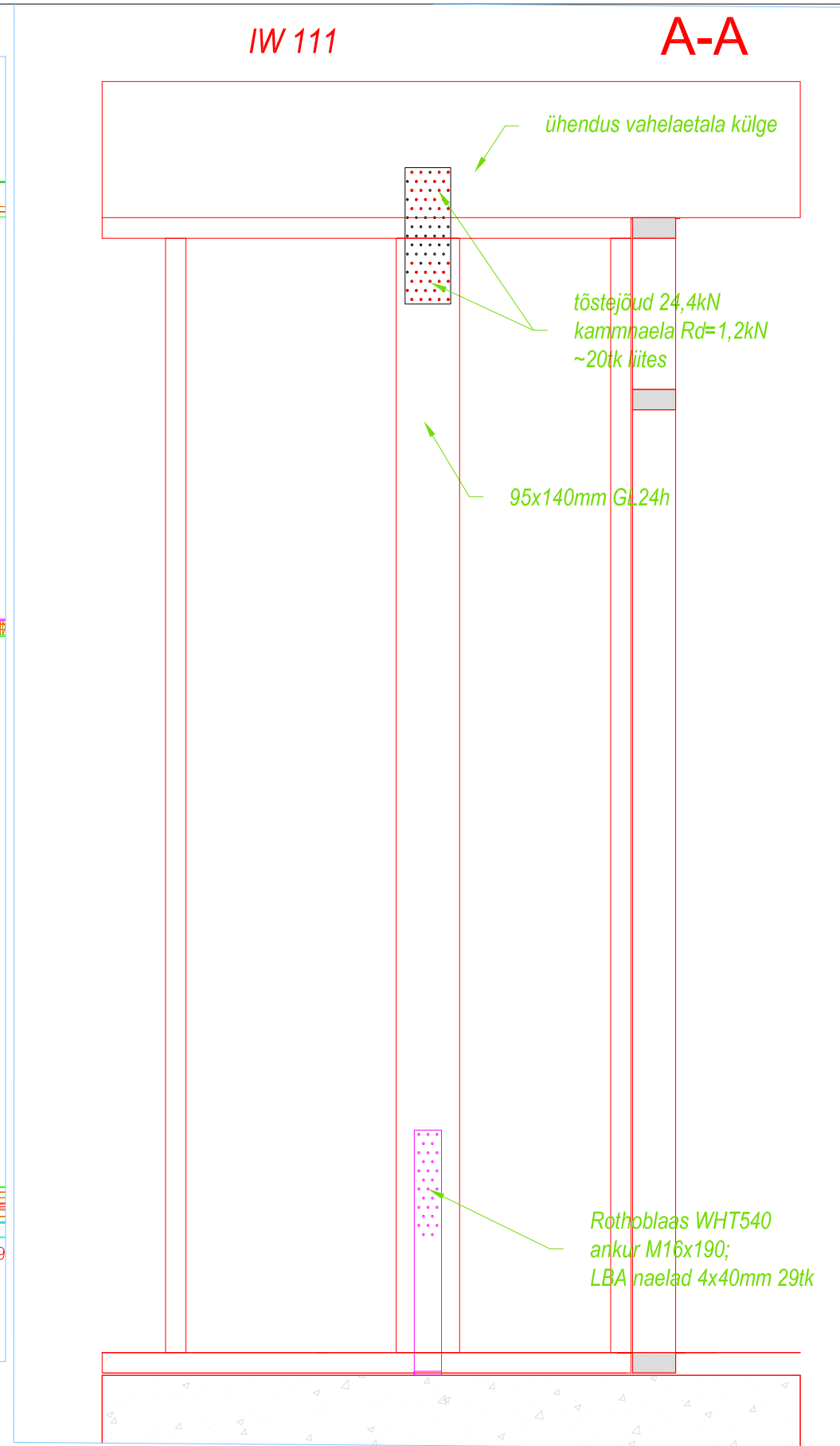
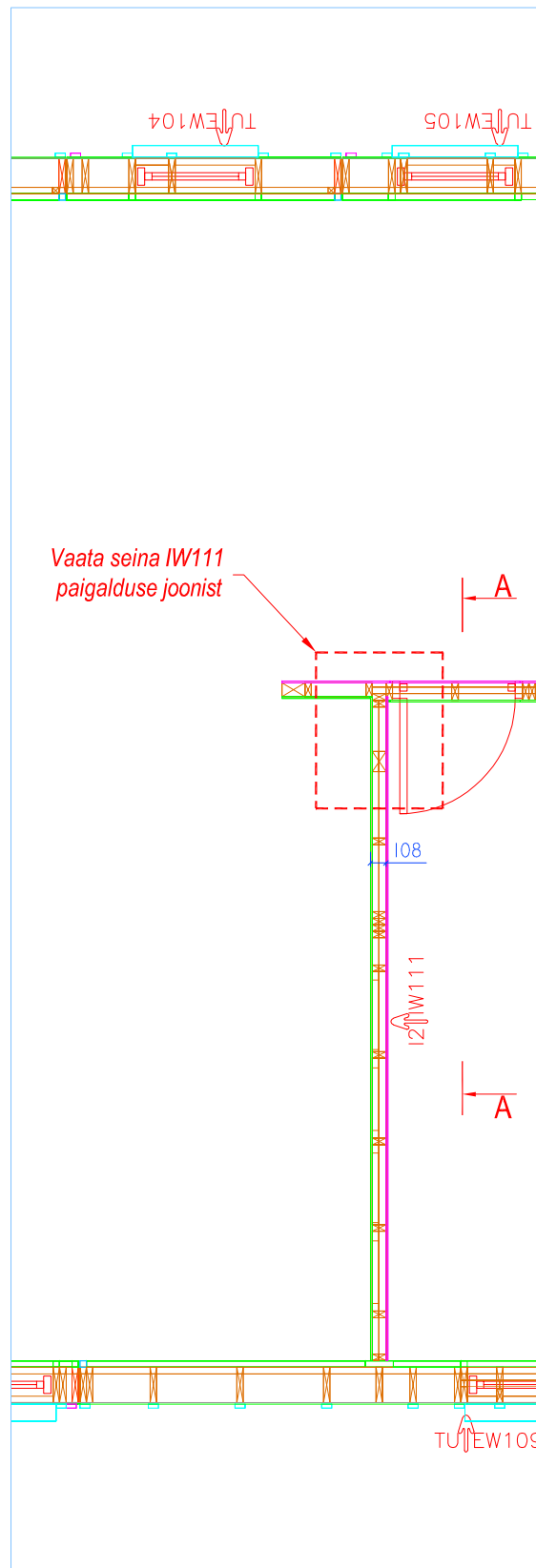


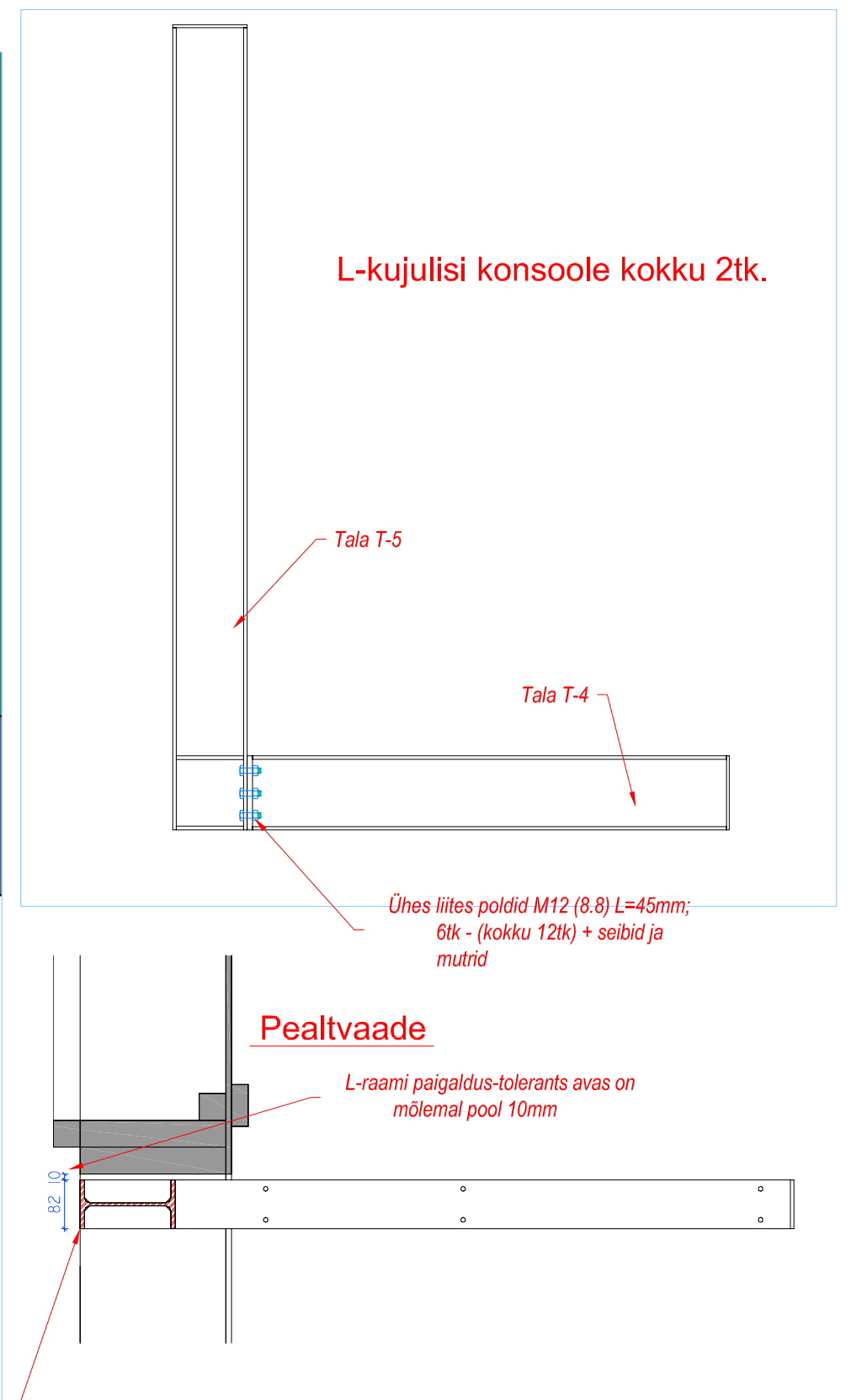
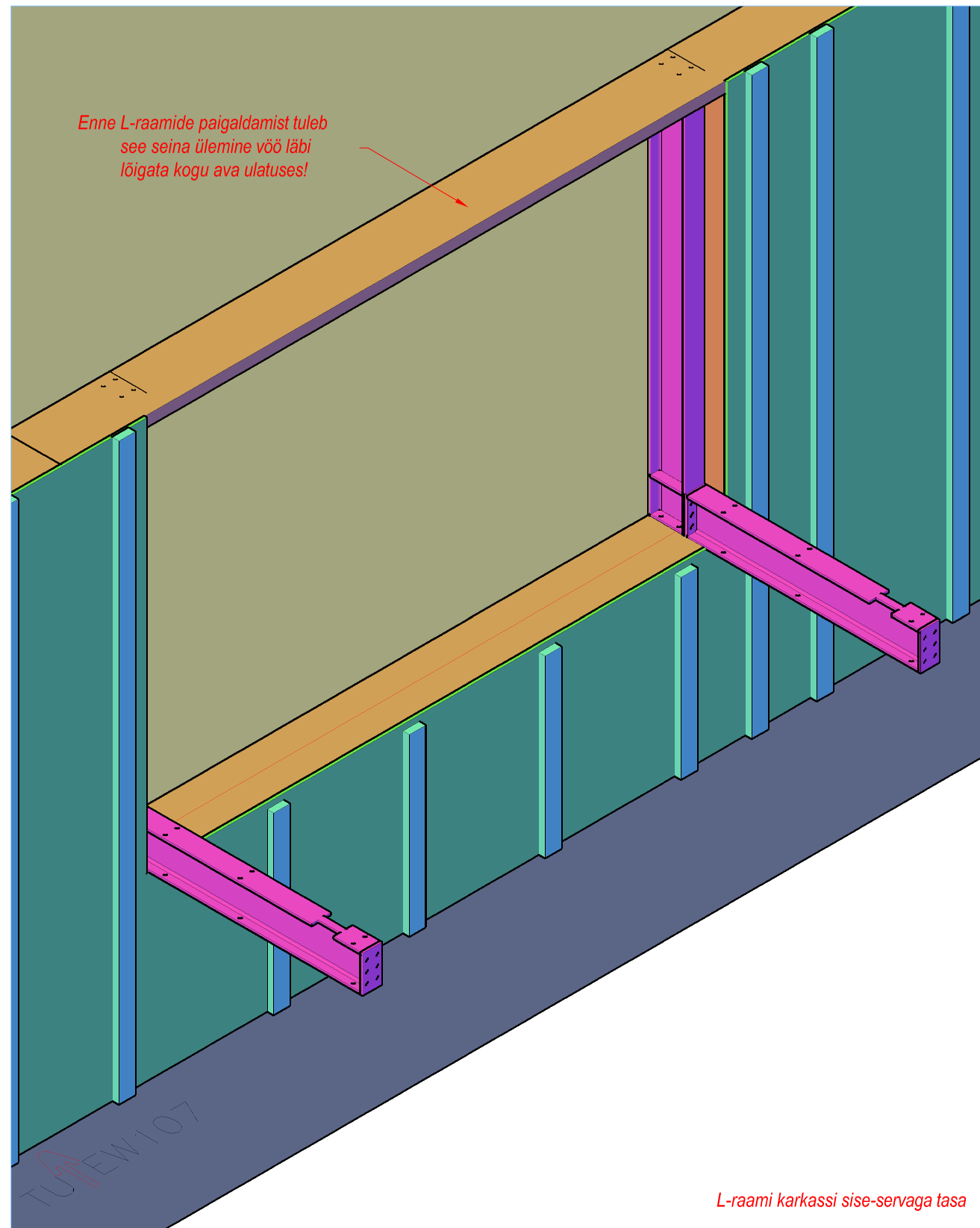
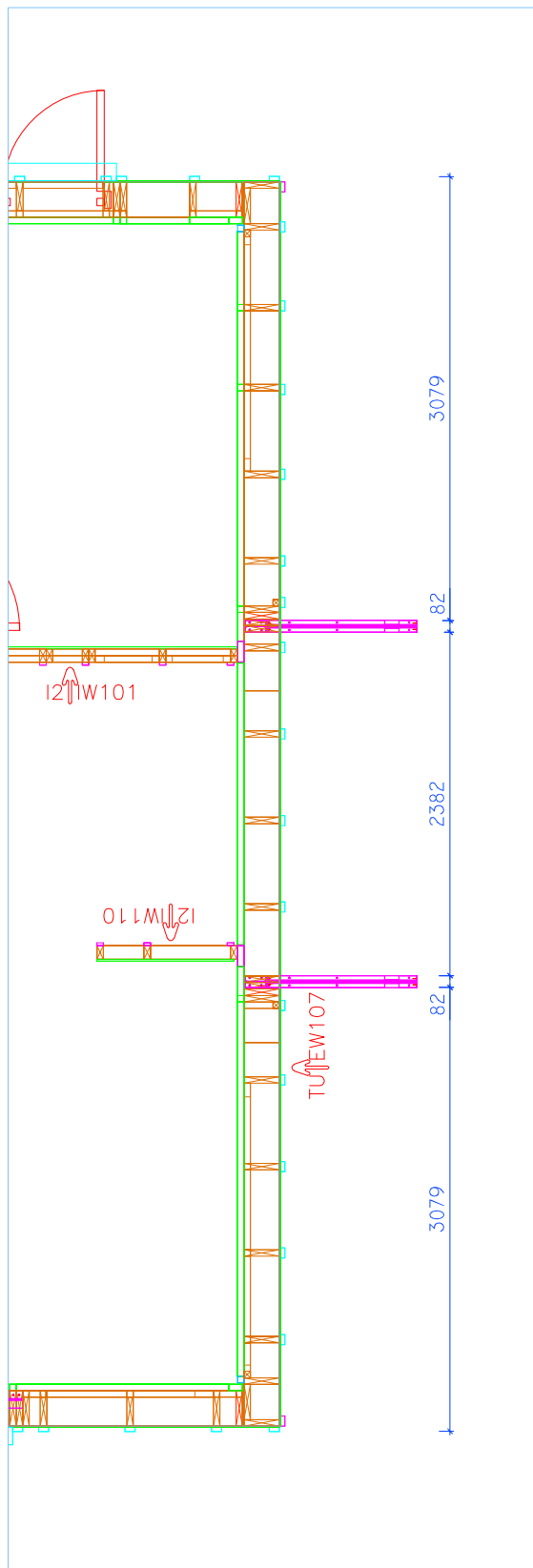


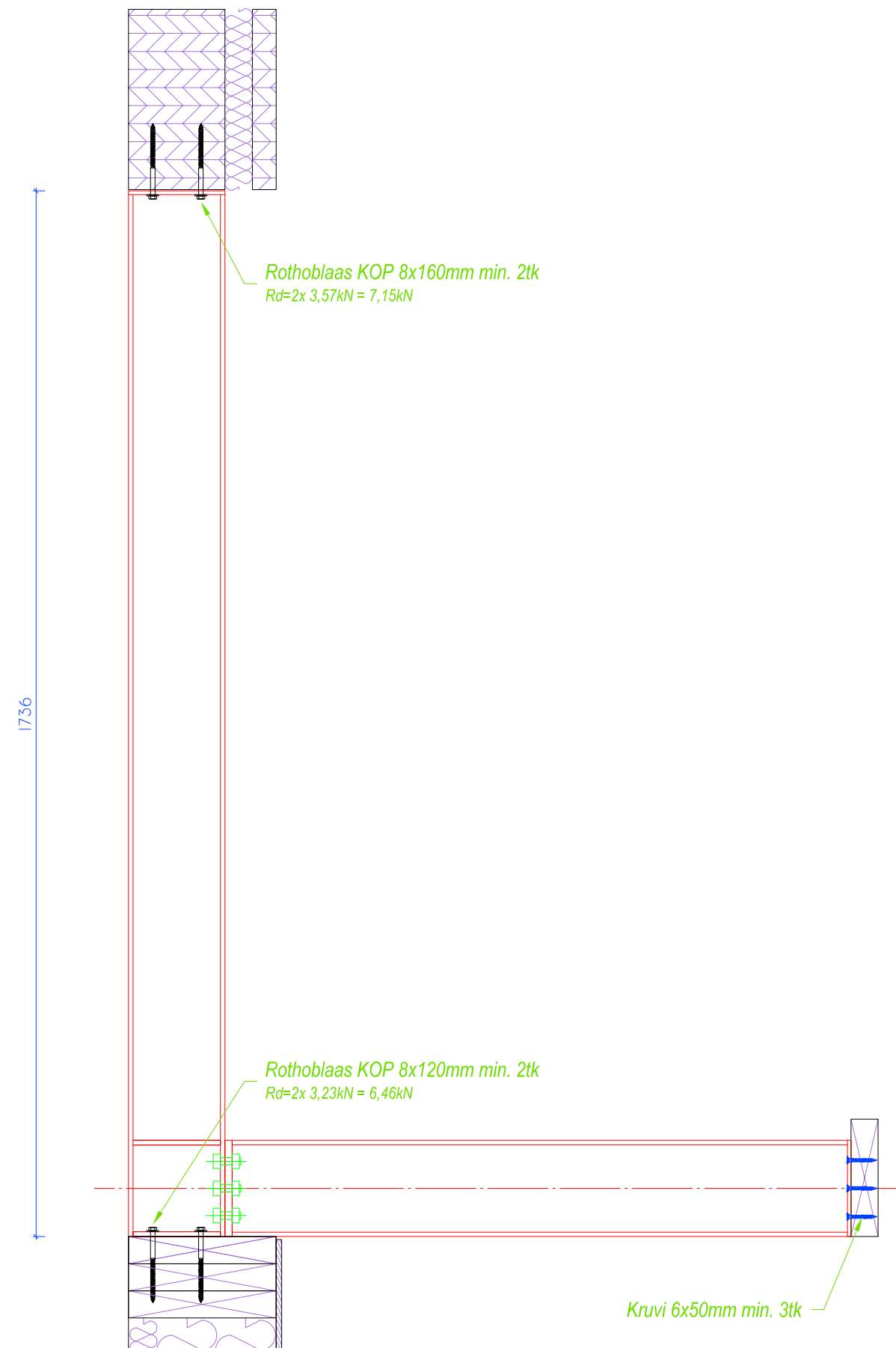
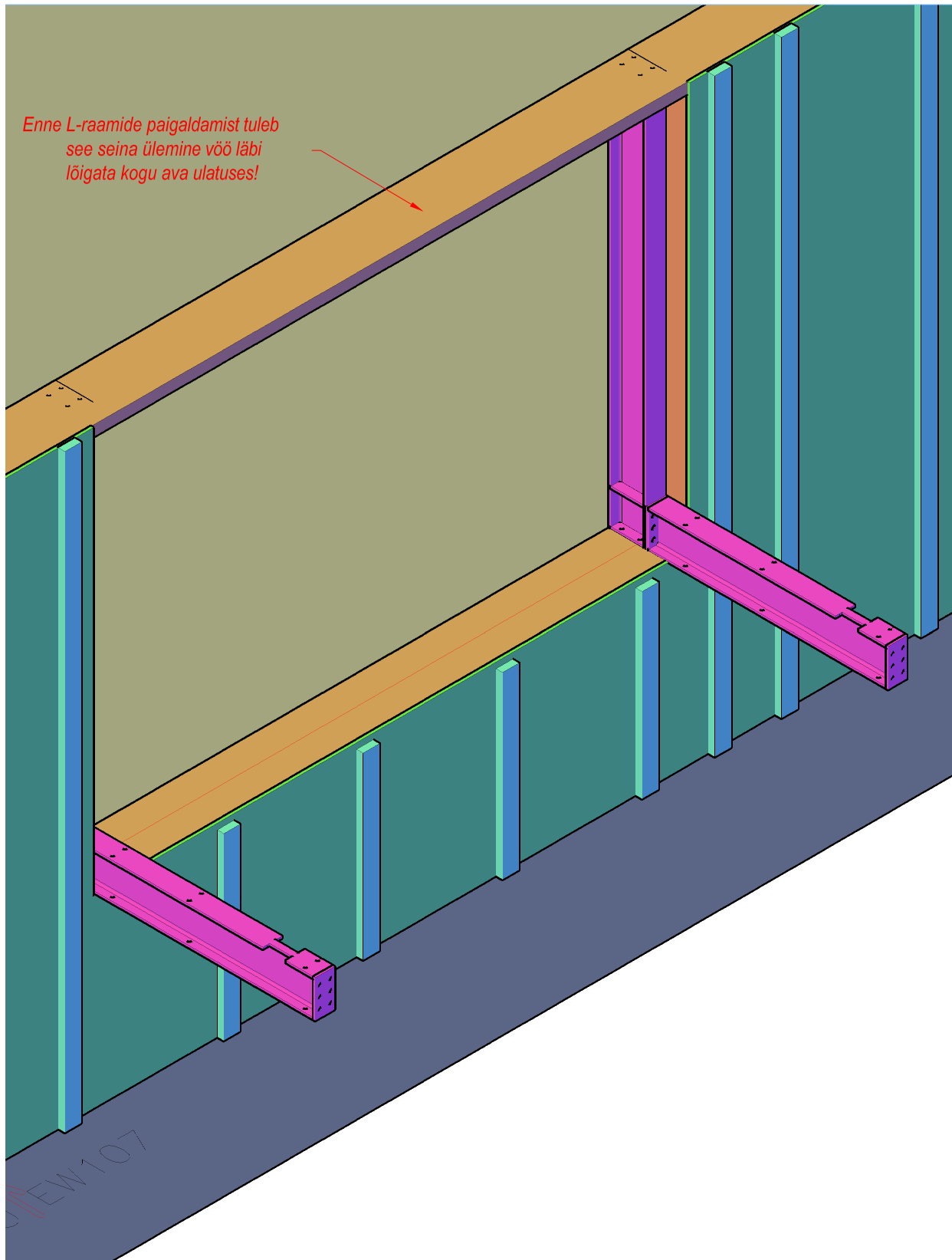


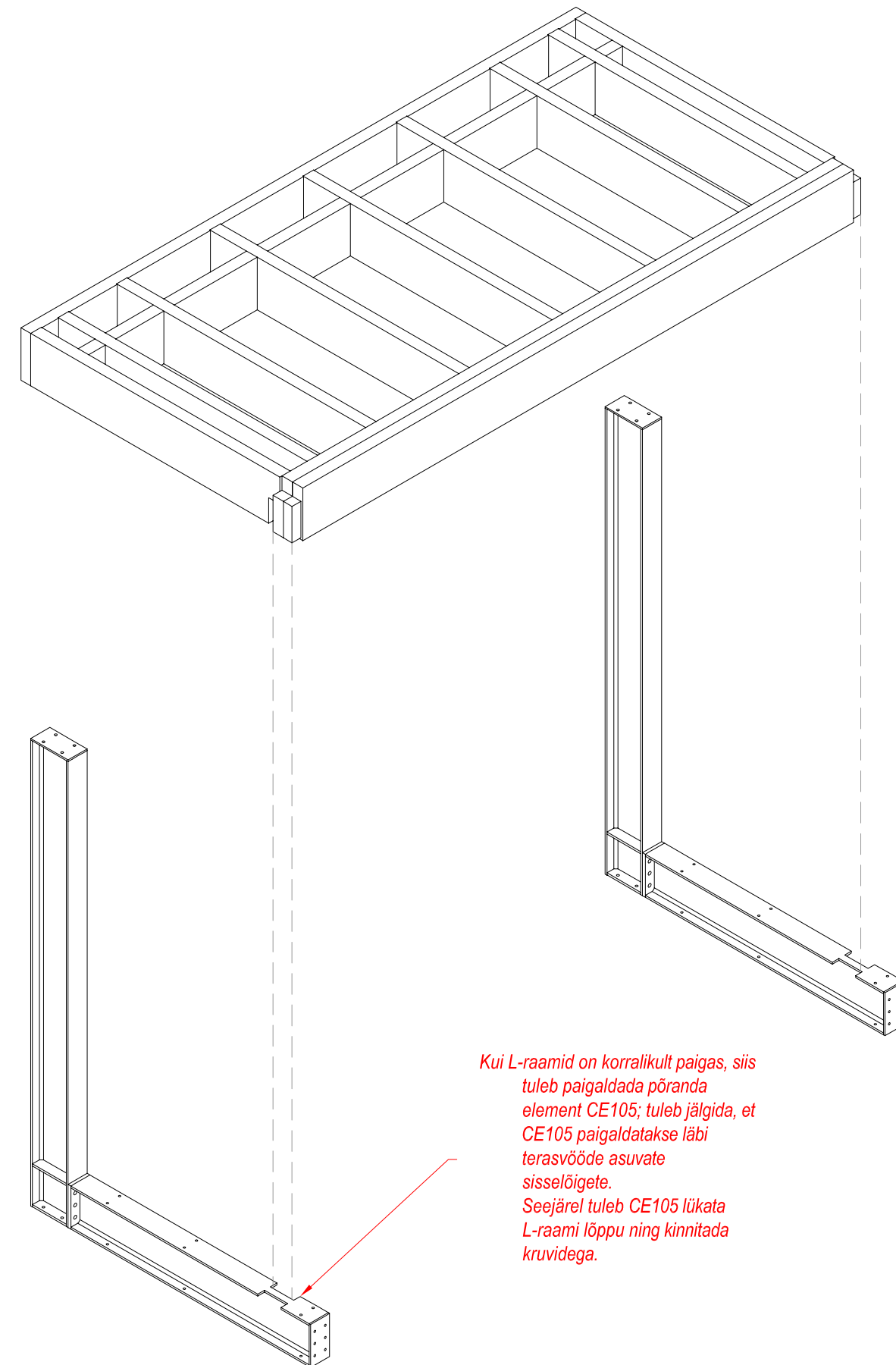
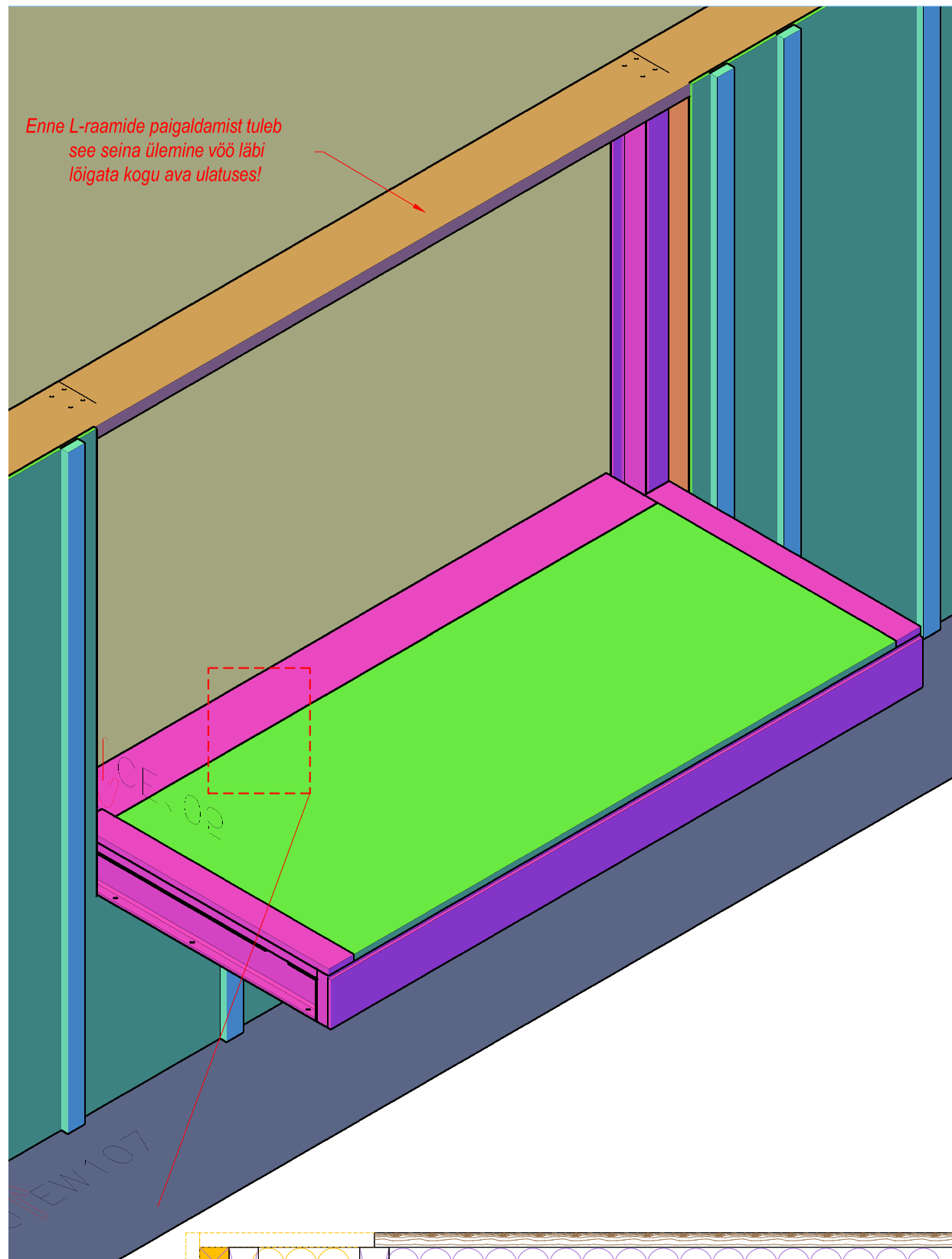




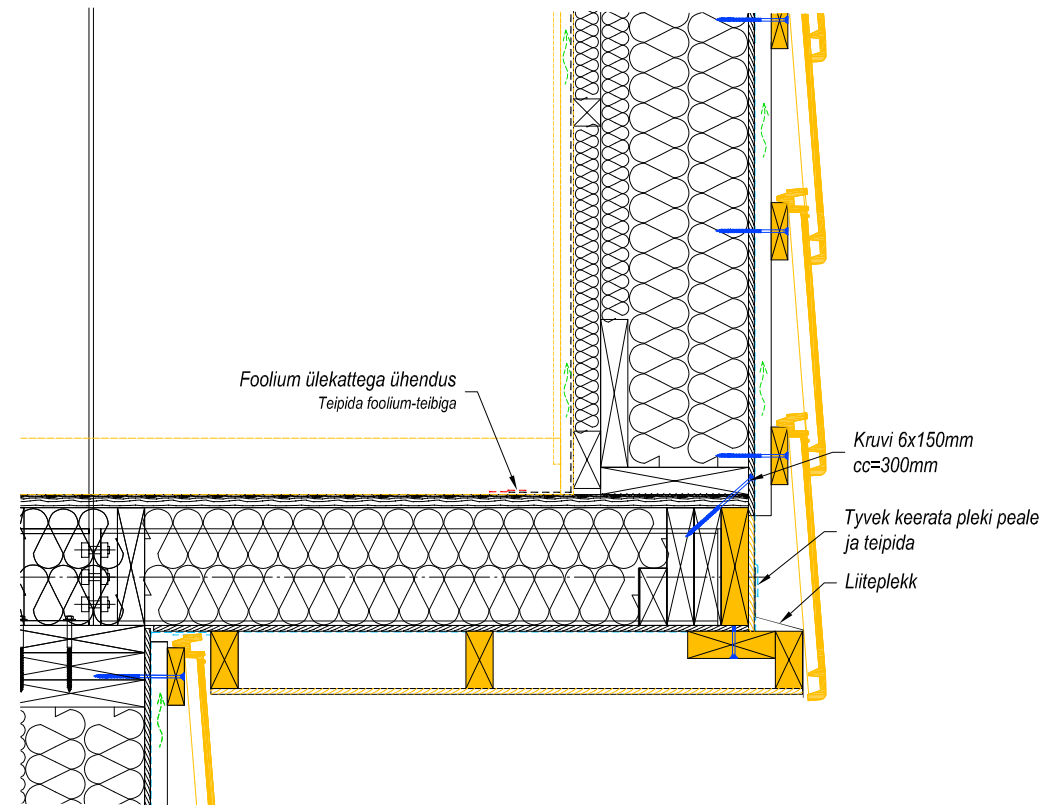




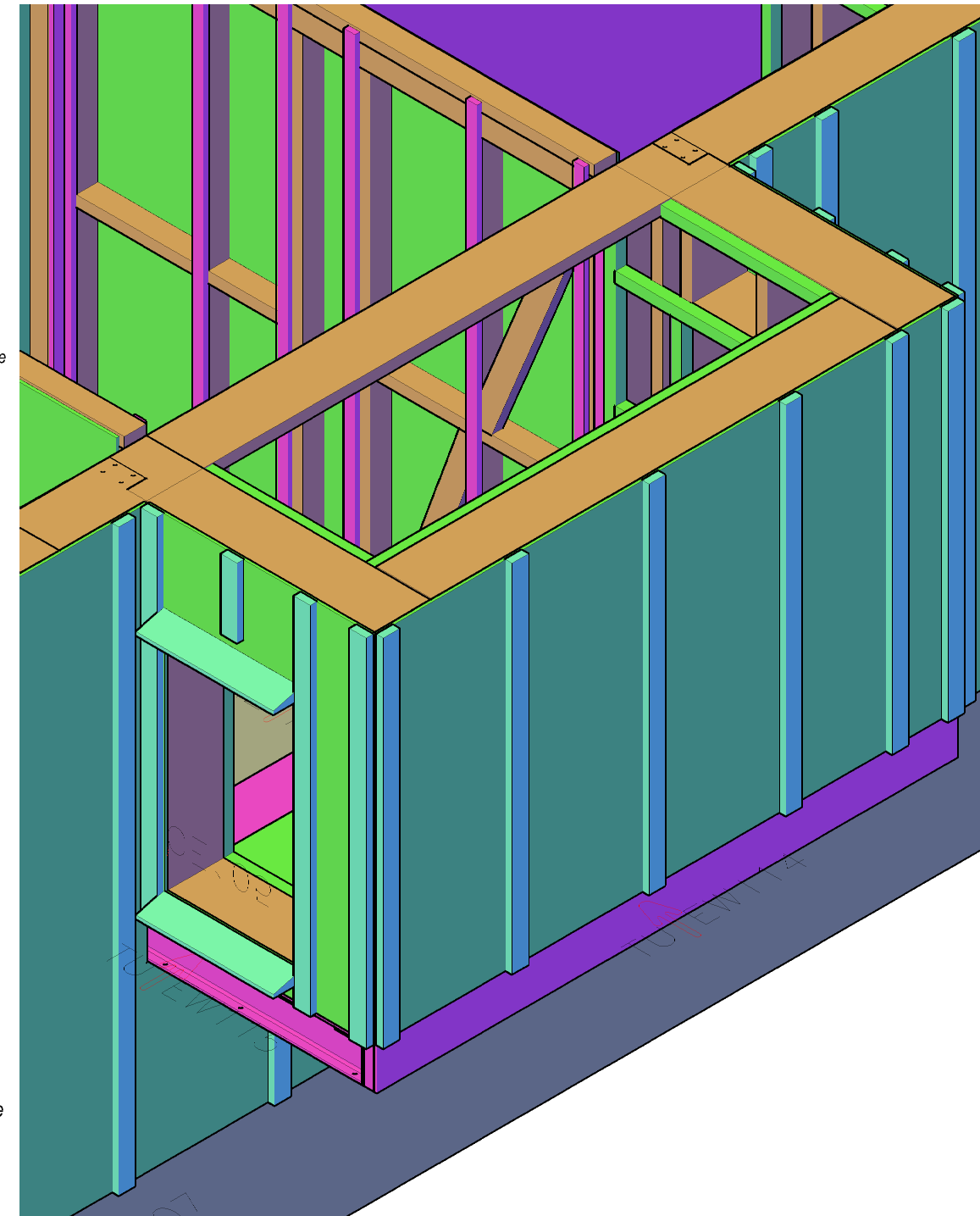
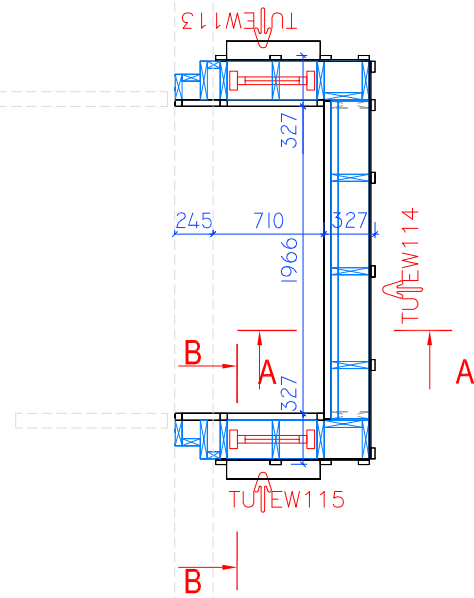
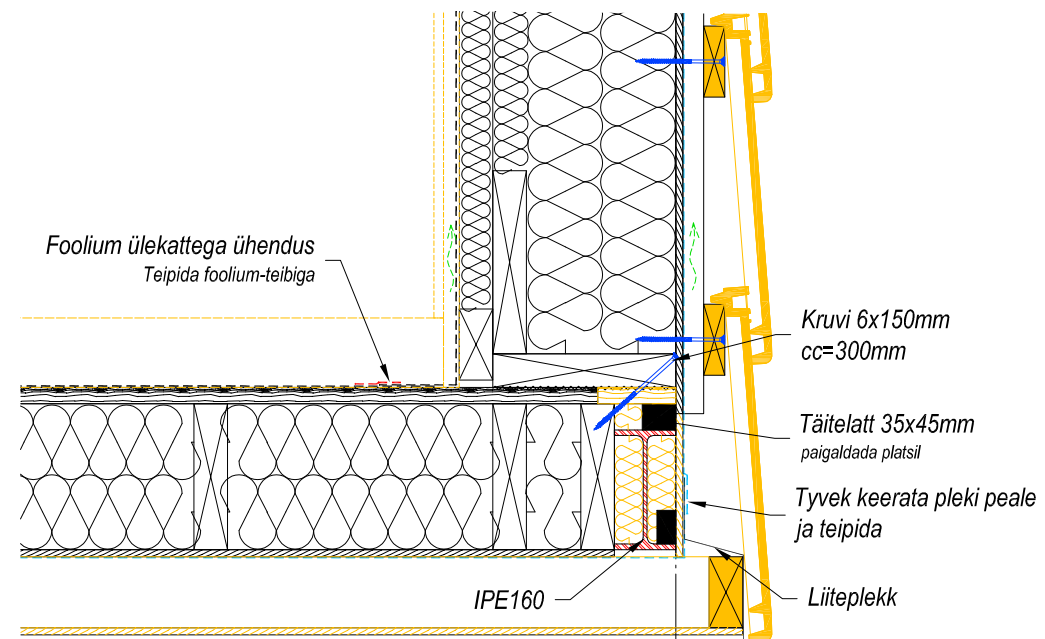




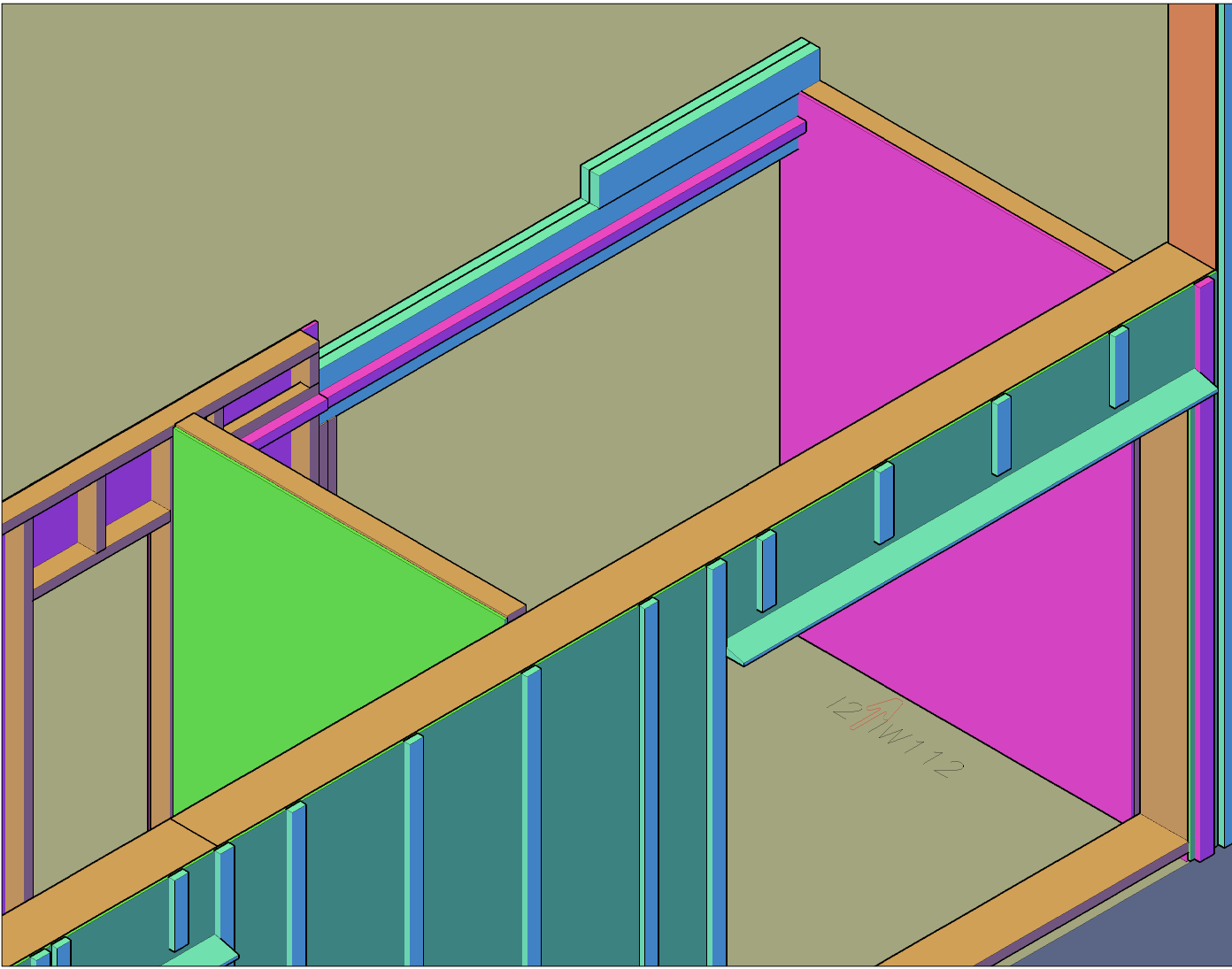
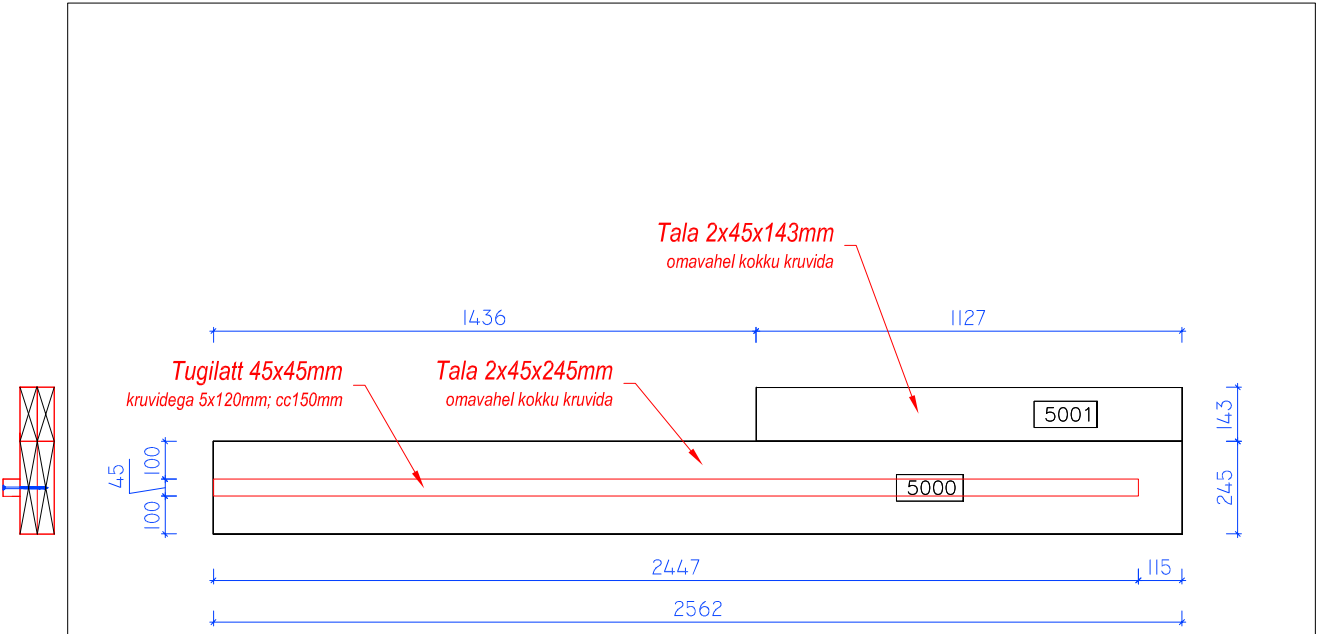
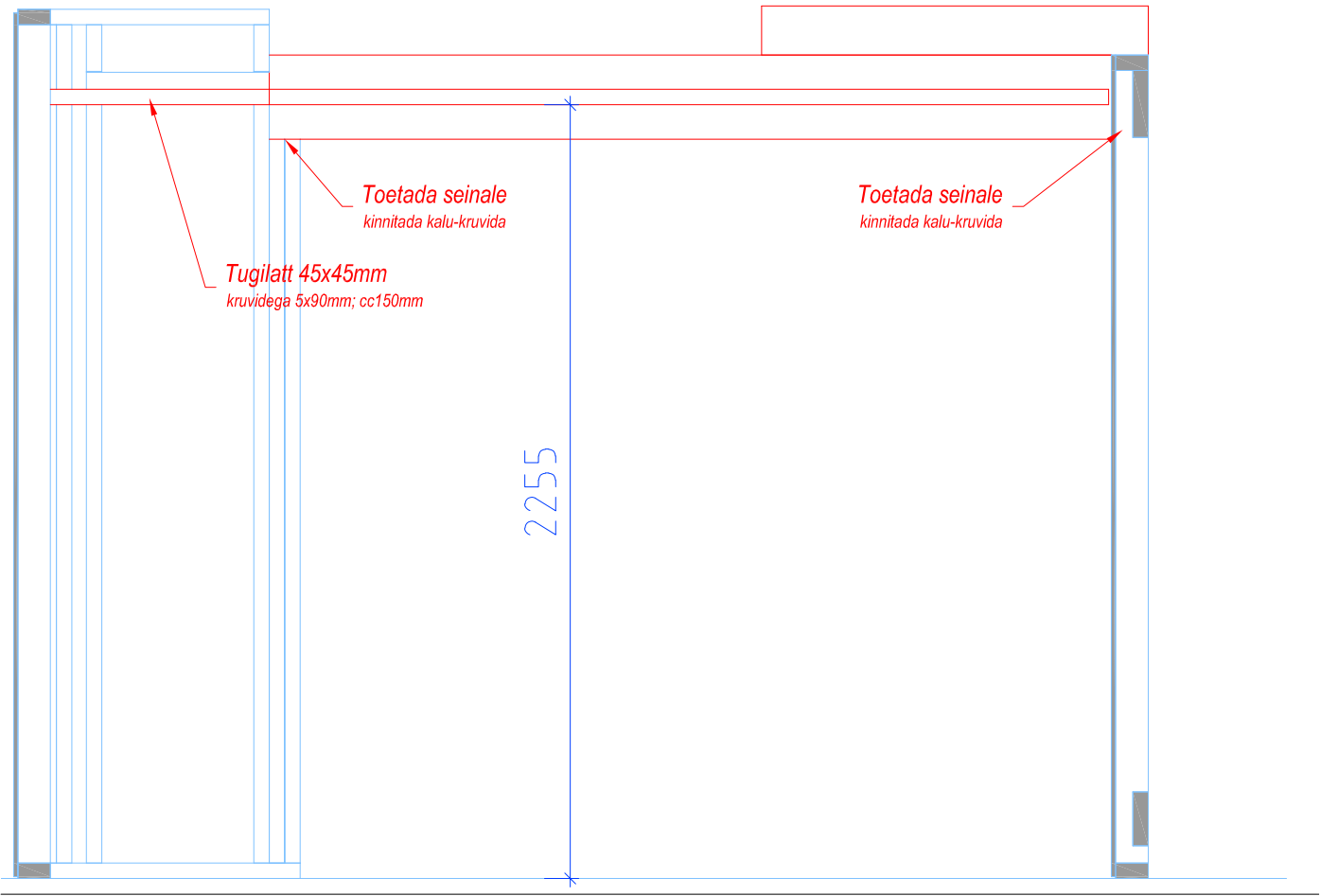
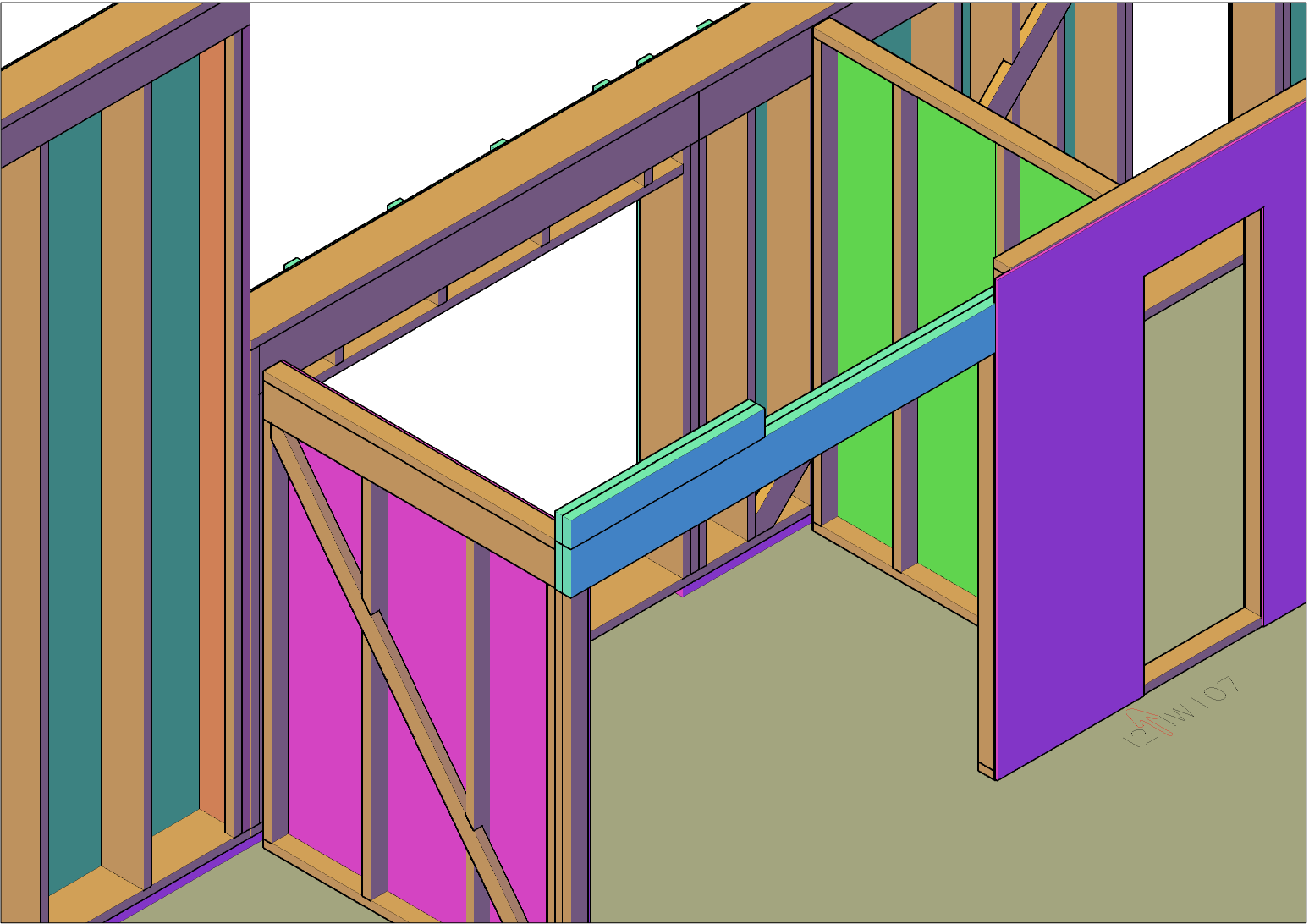
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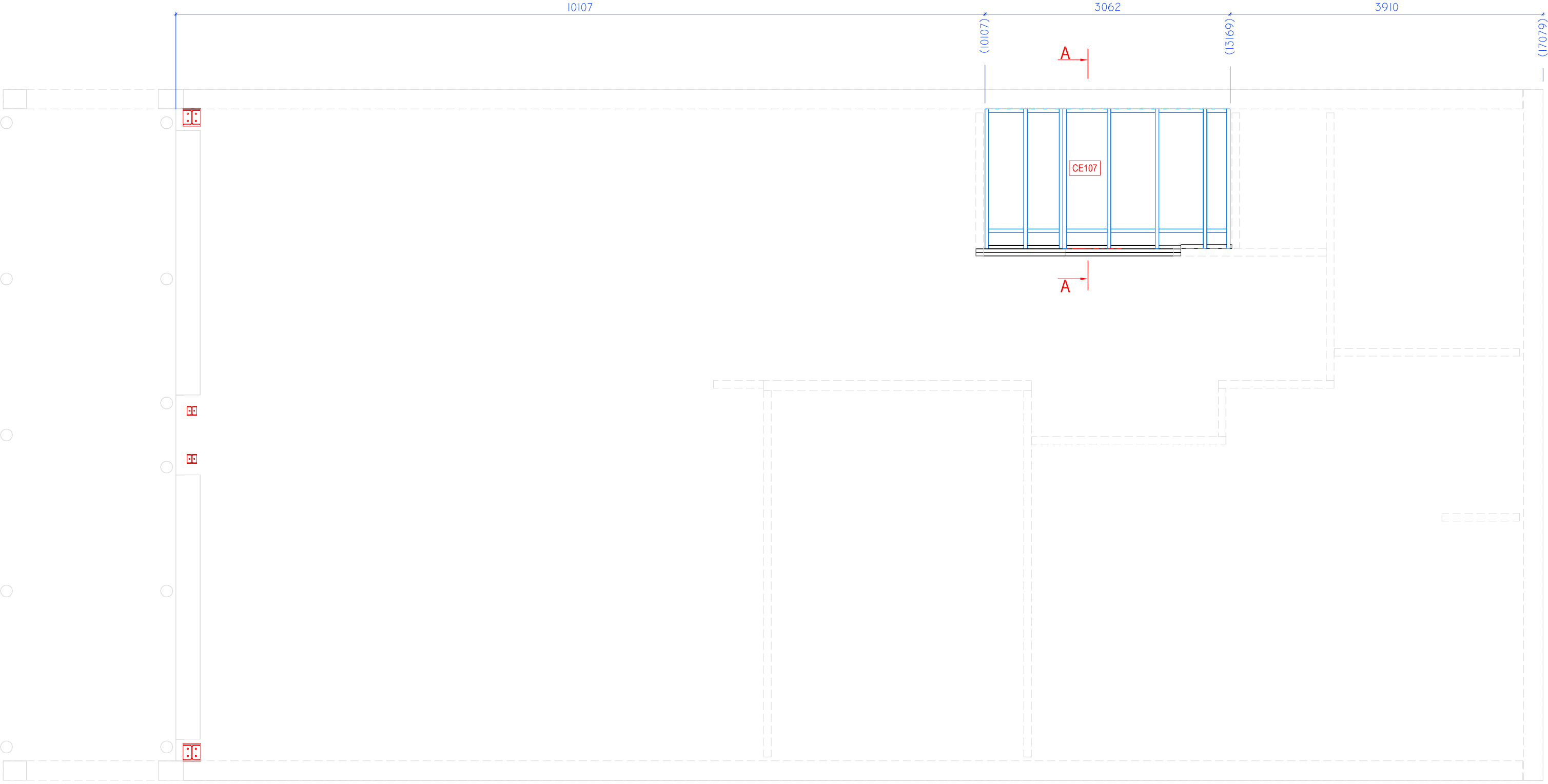


B-B



Möödud on natud elementide küljes olevatest kihtidest!

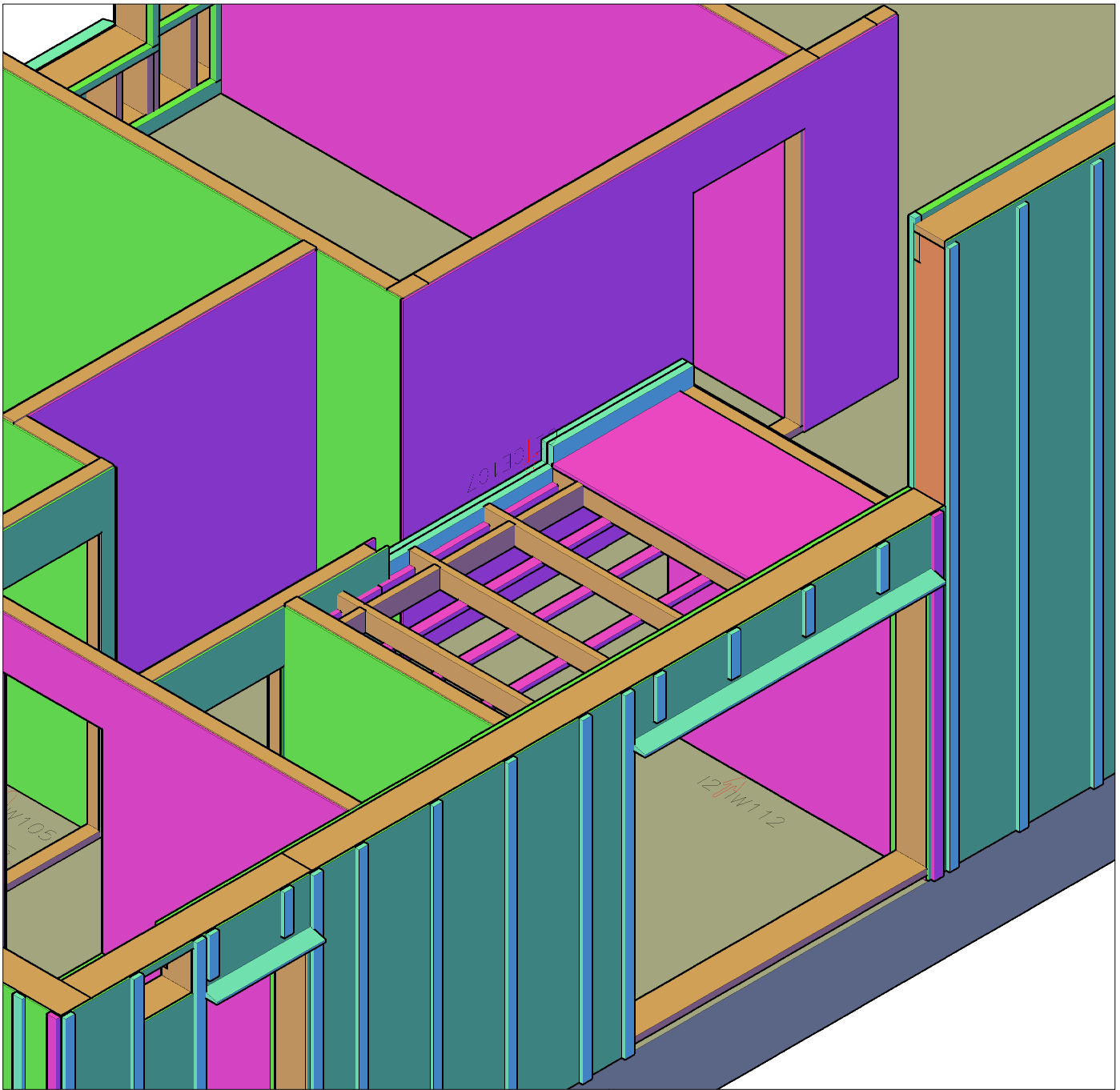
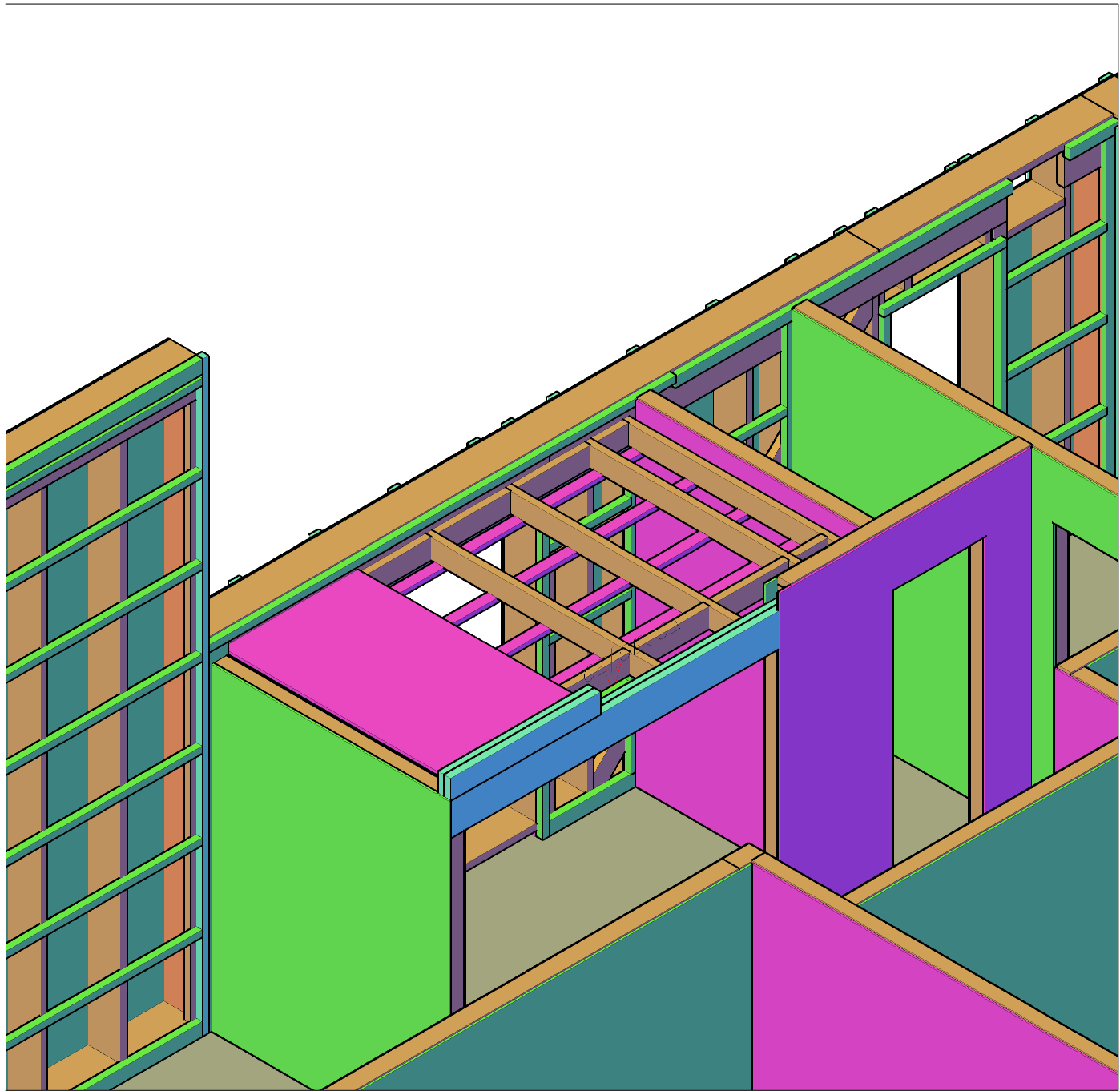


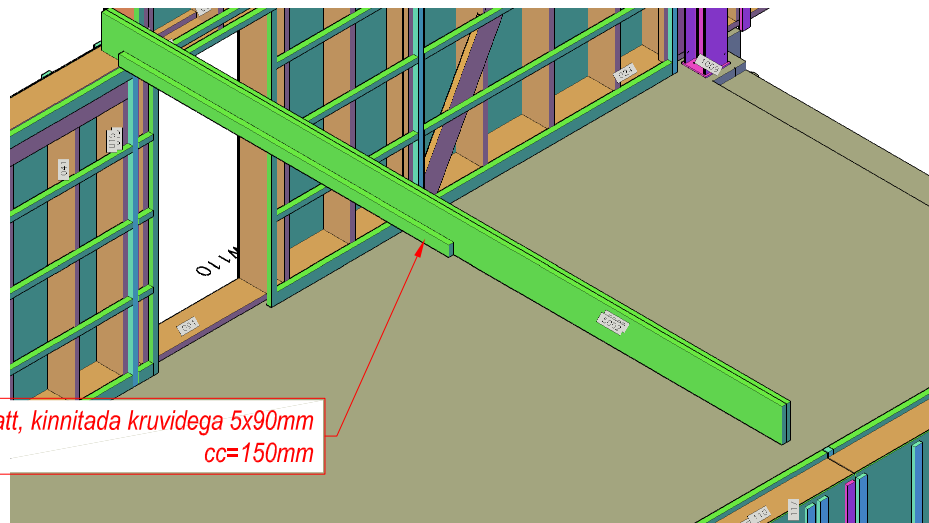
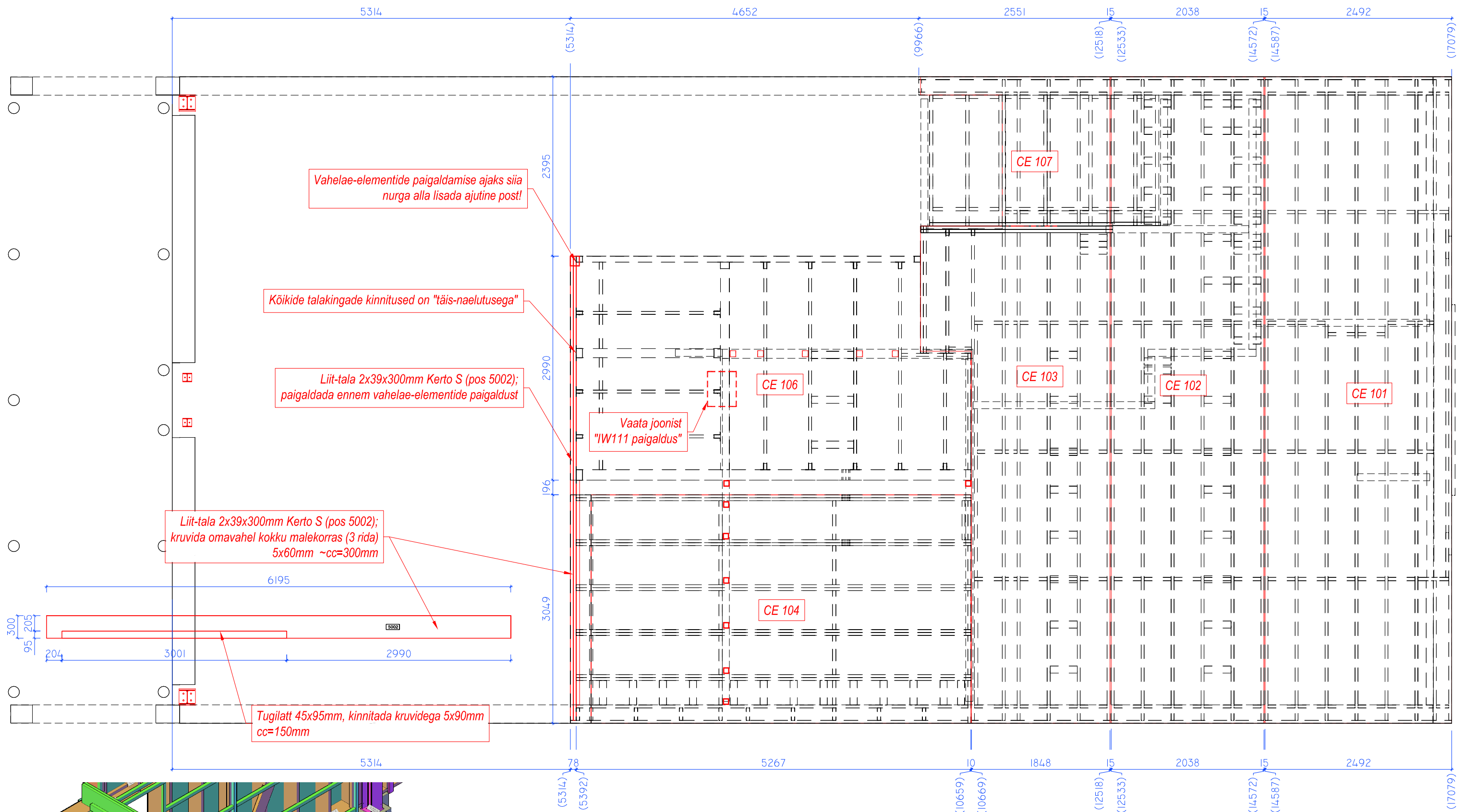


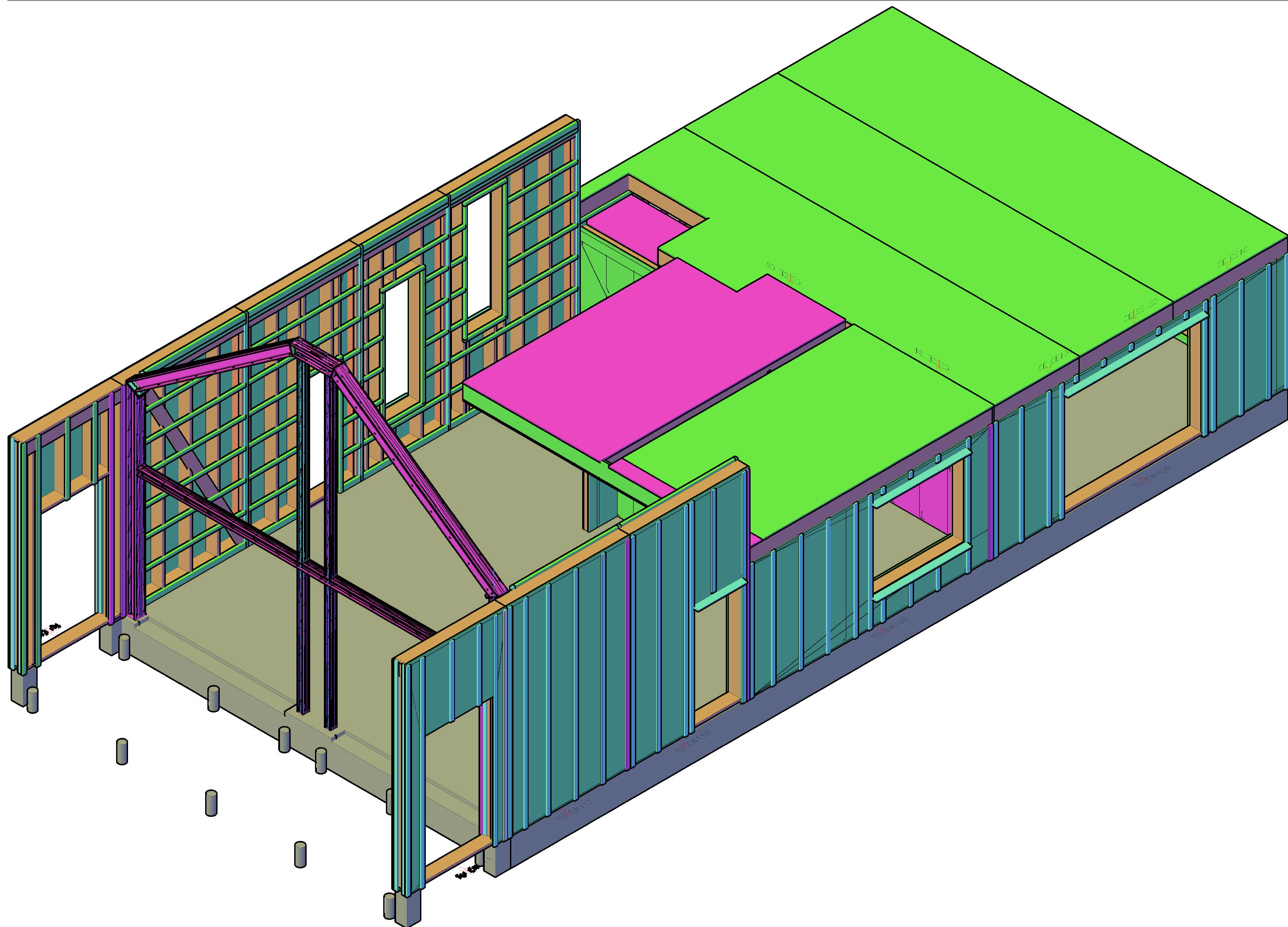
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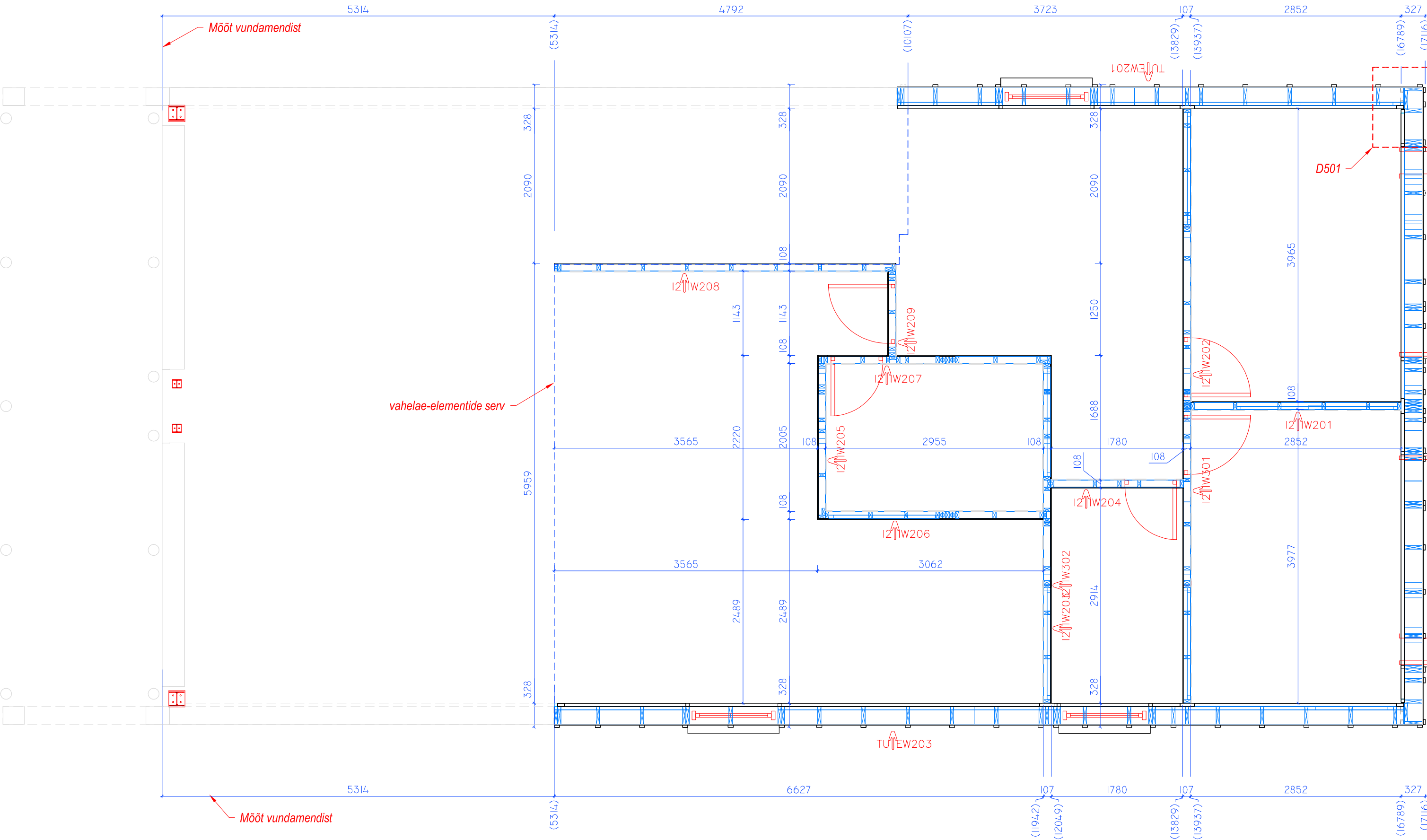


Mõõdud on natud elementide küljes olevatest kihtidest!

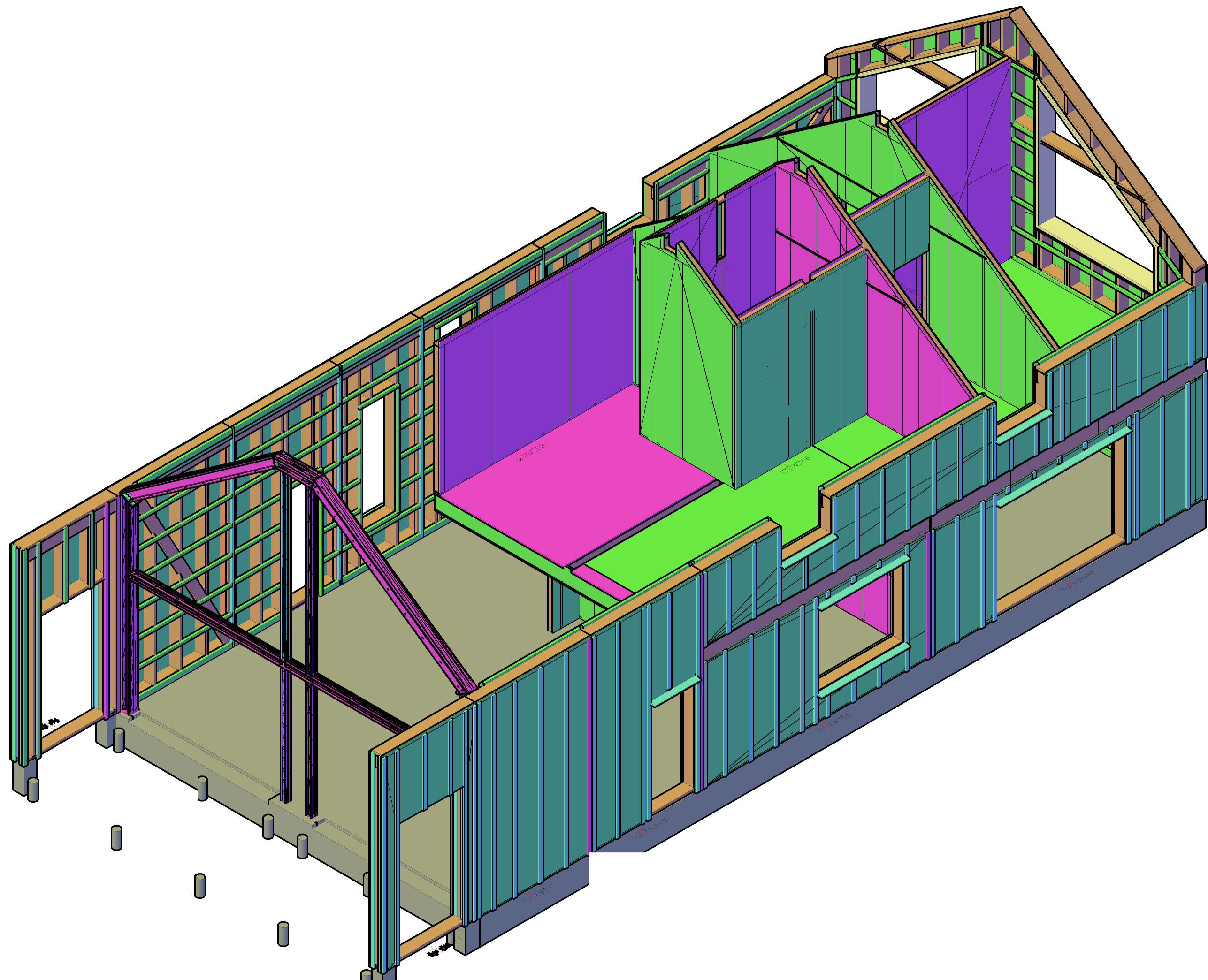


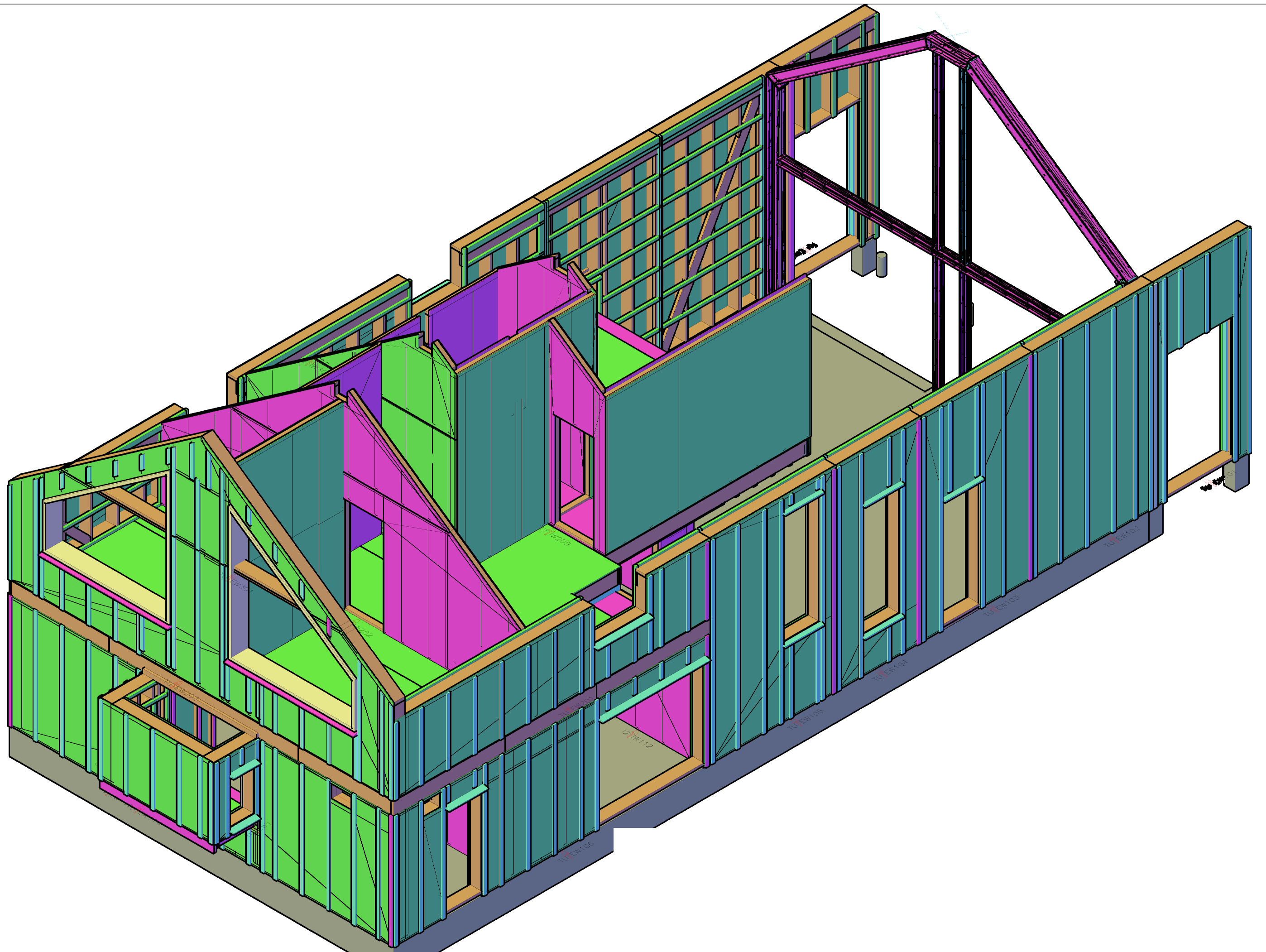


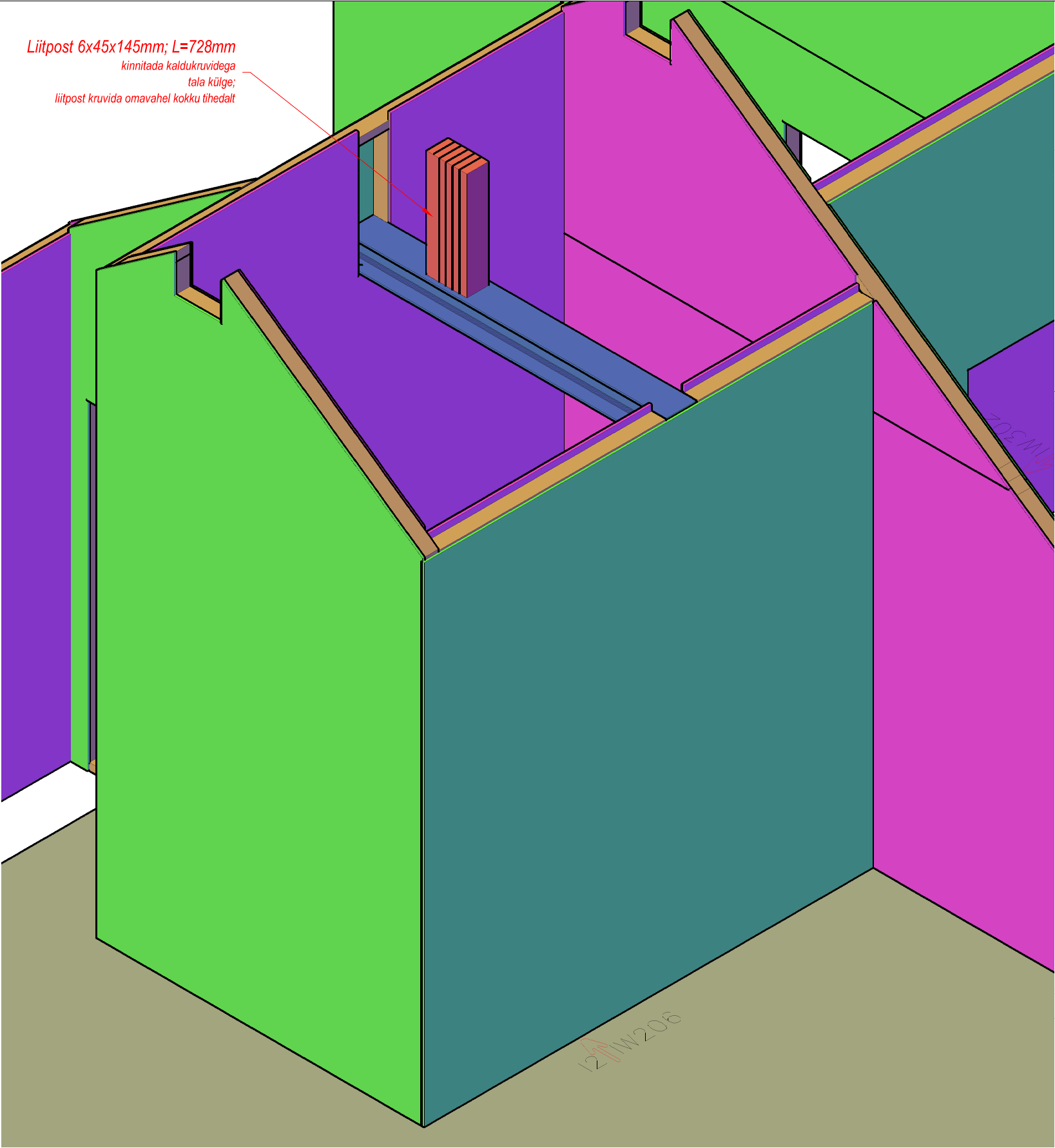




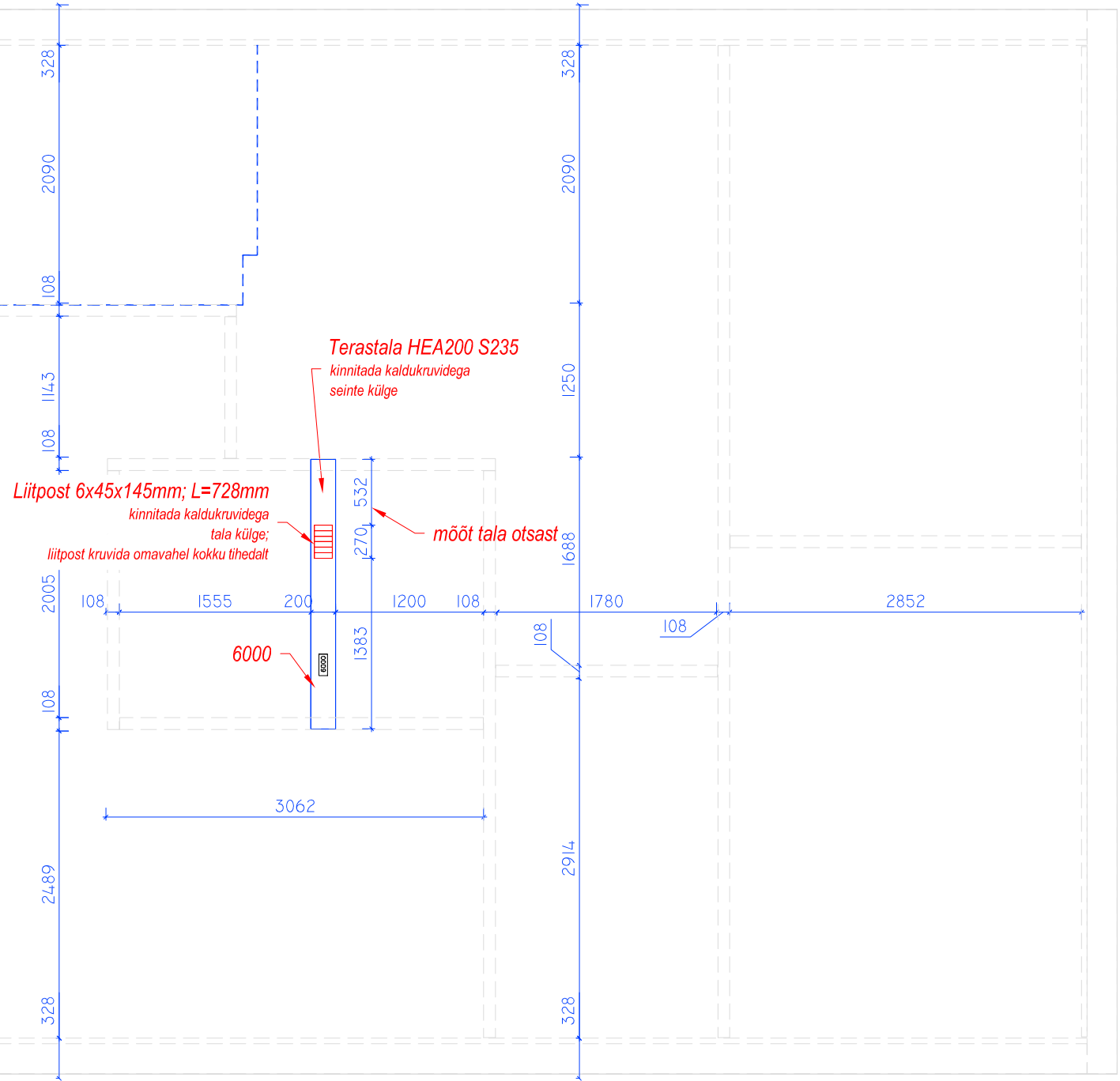
Mõõdud on natud elementide küljes olevatest kihtidest!



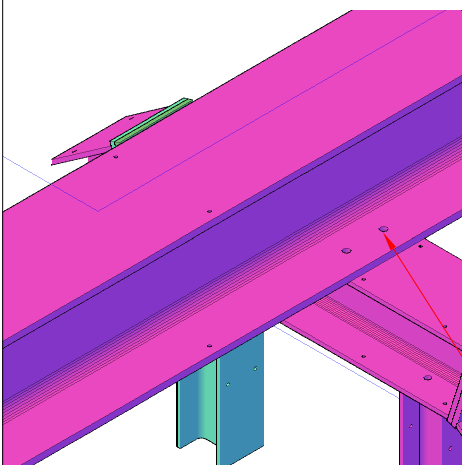
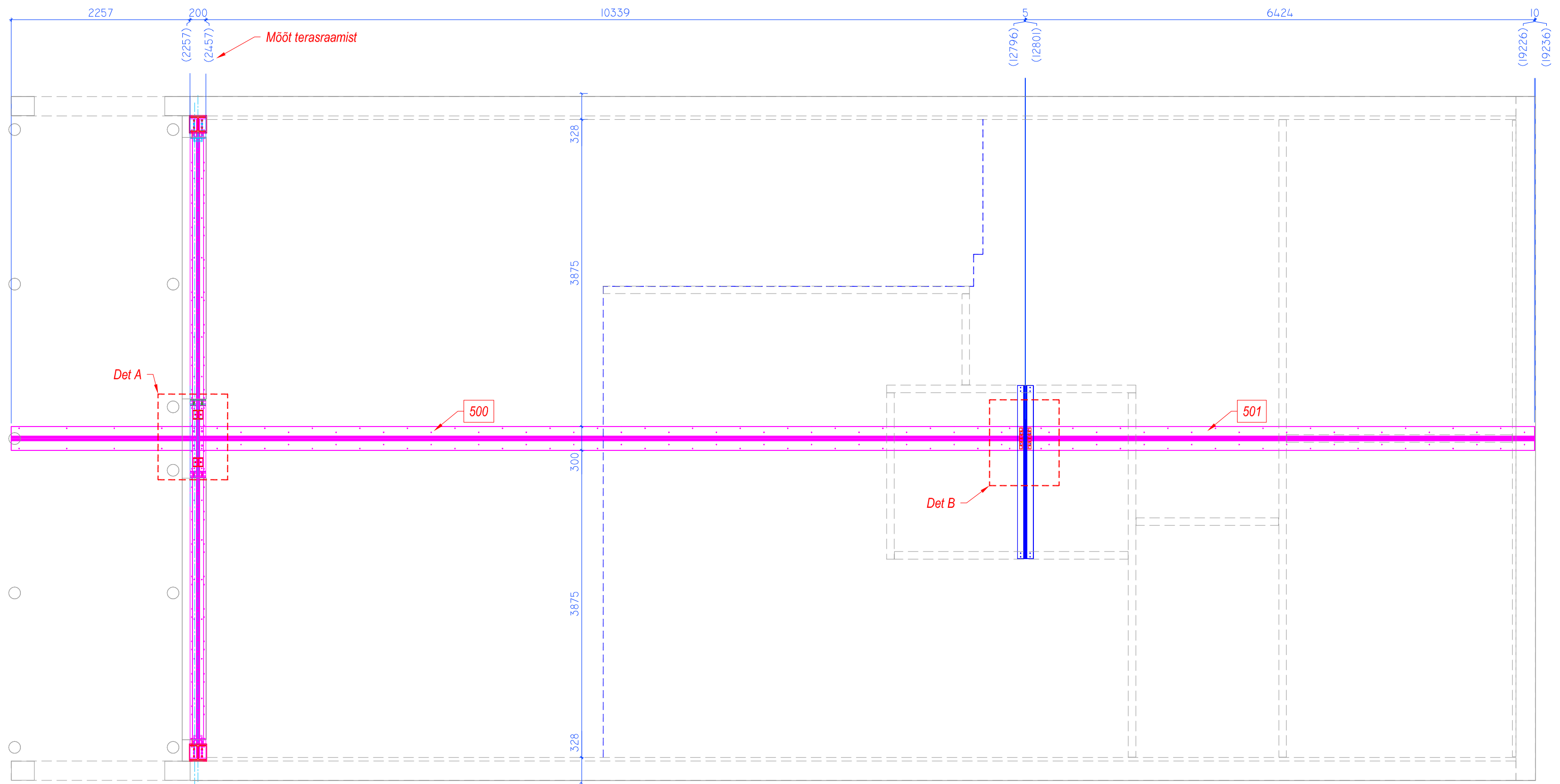




Liitpost 6x45x145mm; L=728mm
kinnitada kaldukruvidega
tala külge;
liitpost kruvida omavahel kokku tihedalt

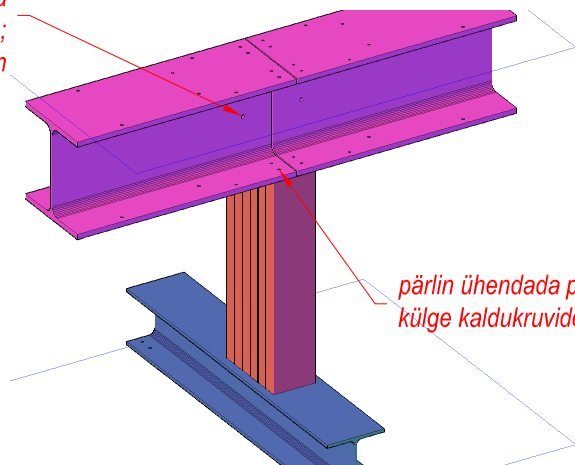


Mõõdud on natud elementide küljes olevatest kihtidest!

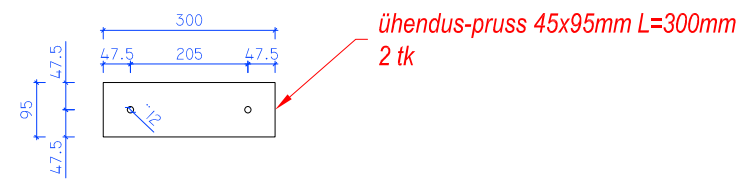


pärilin ühendada omavahel
mõlemalt poolt terastala
vööd prussiga 45x95mm L=300mm;
2x polt M12 L=~150mm

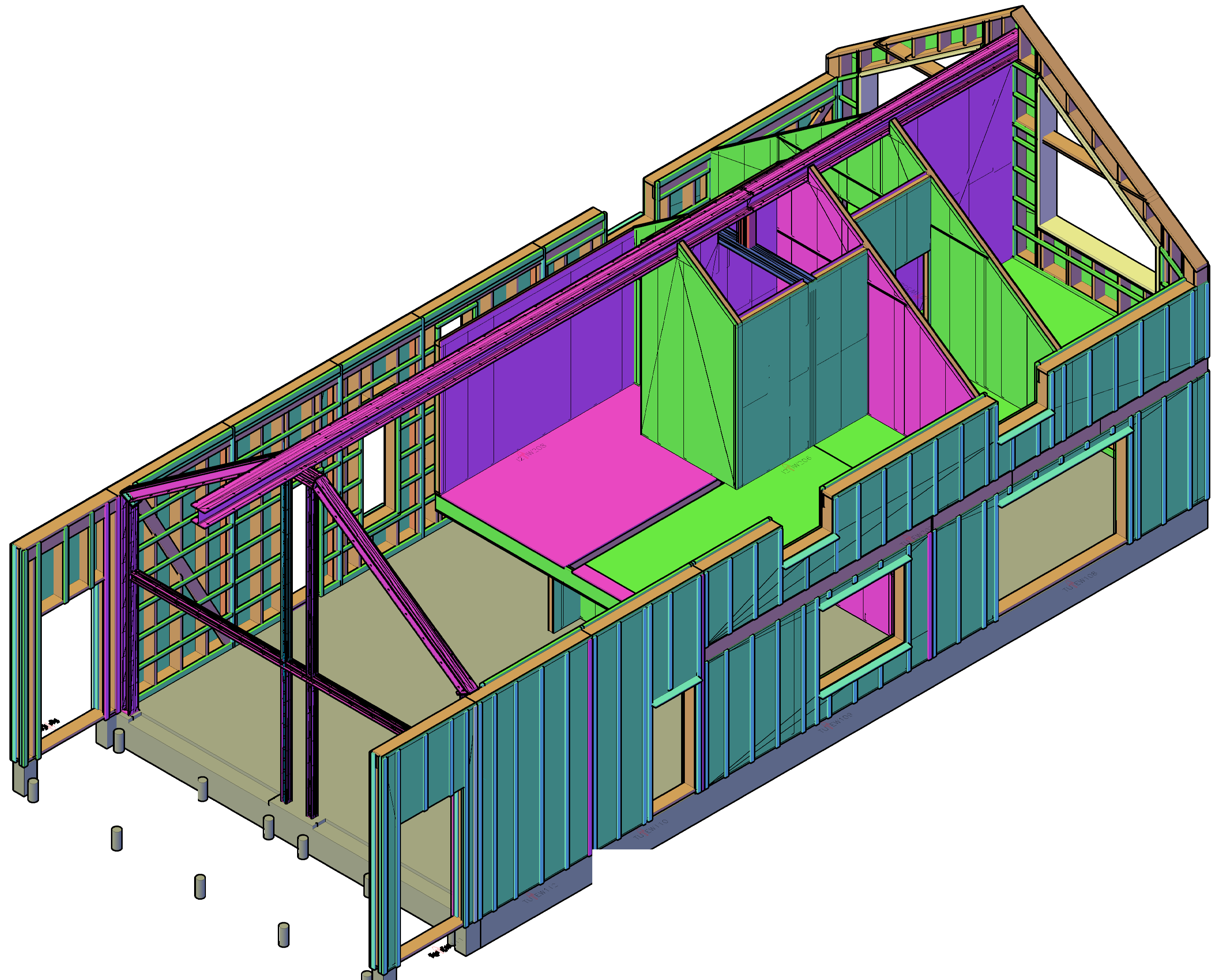
- pärilin kinnitada poltidega terasraami külge;
4x polt M16

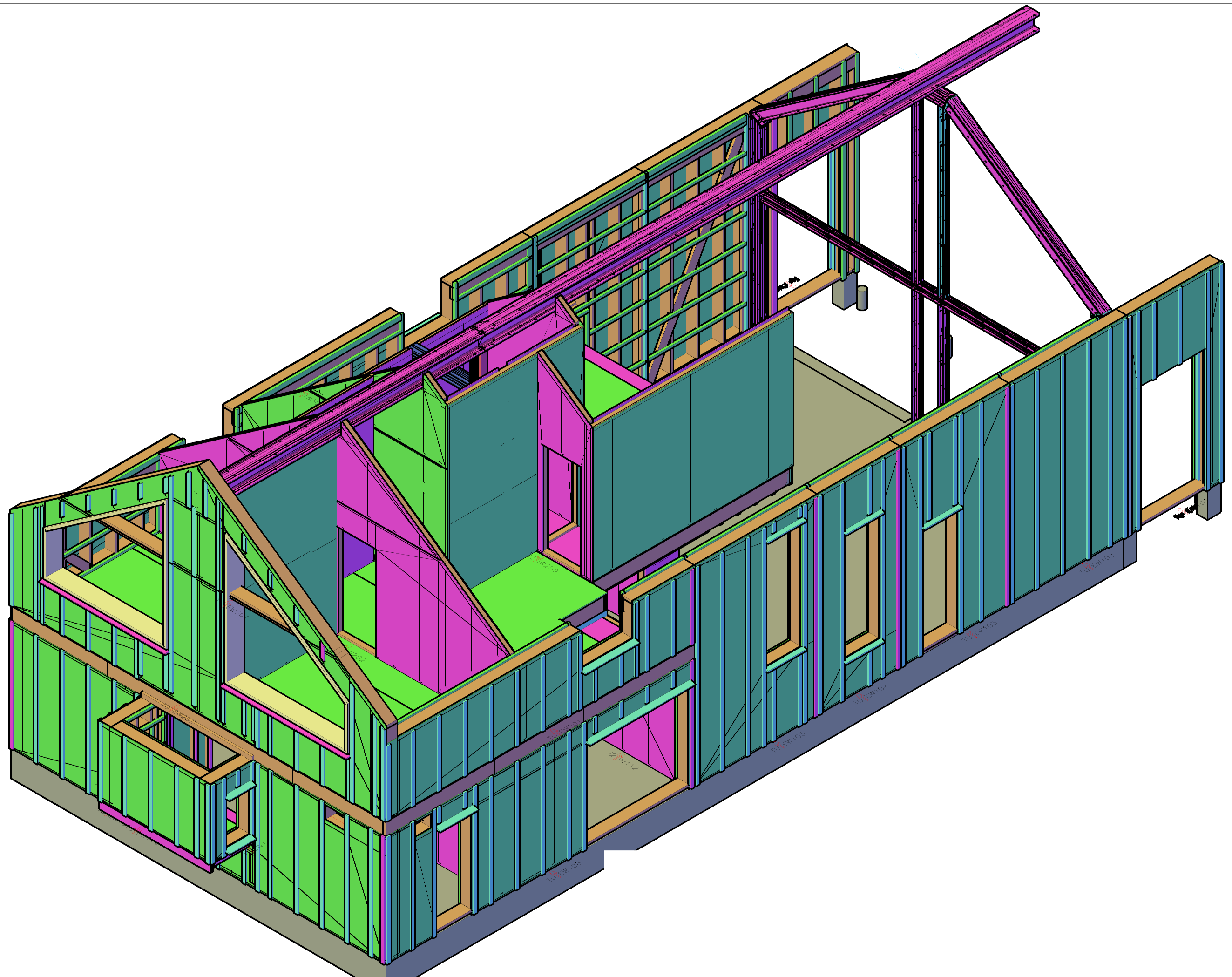


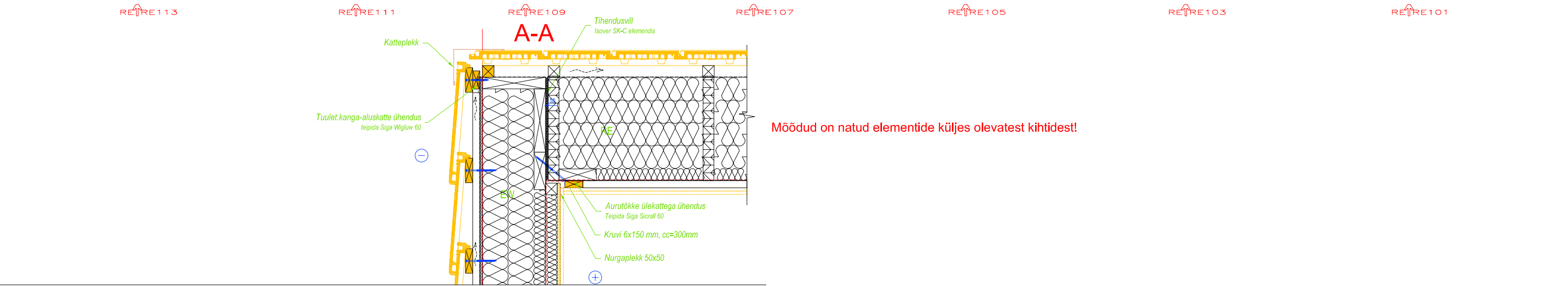
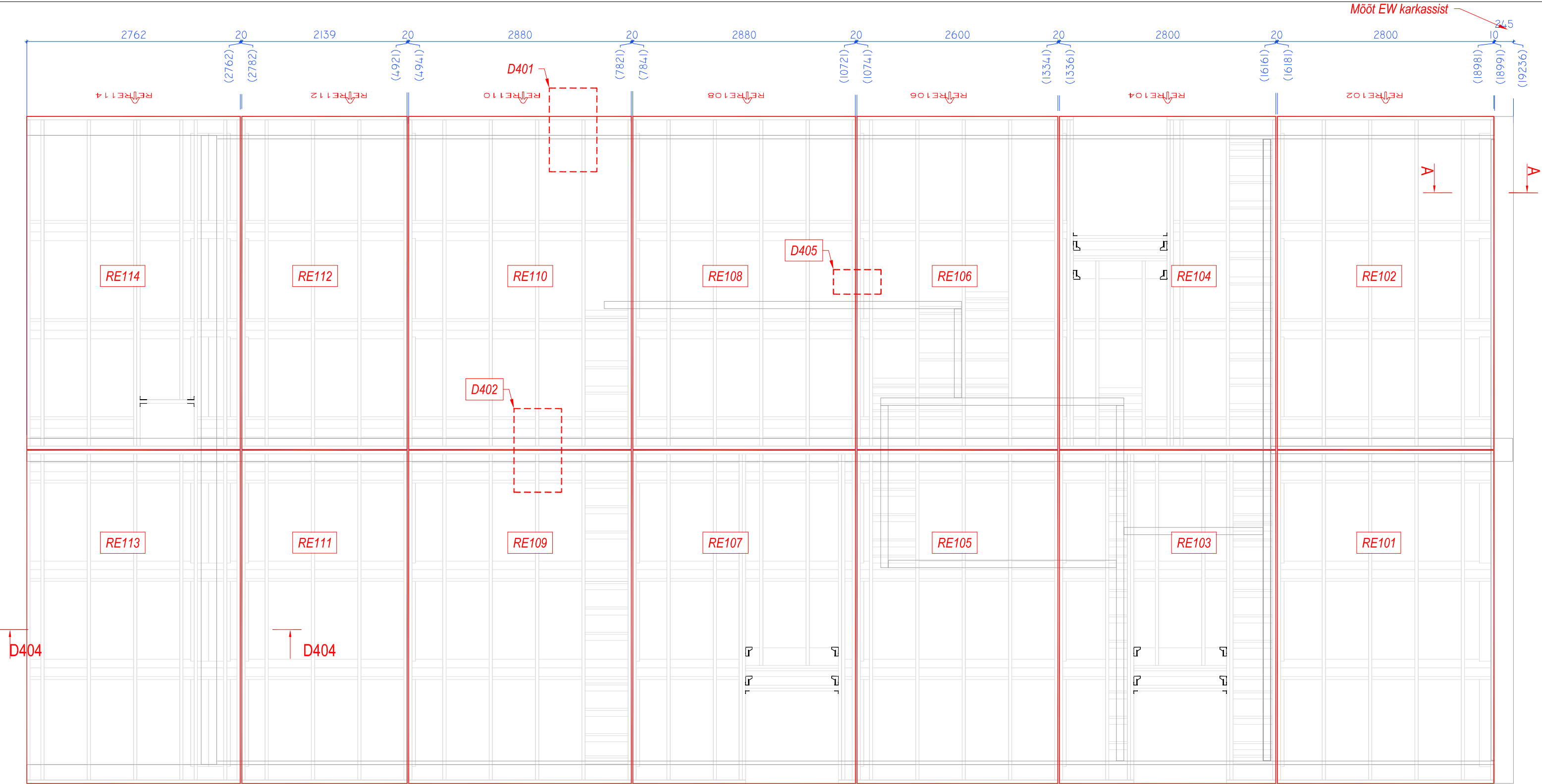
pärilin ühendada posti
külge kaldukruvidega

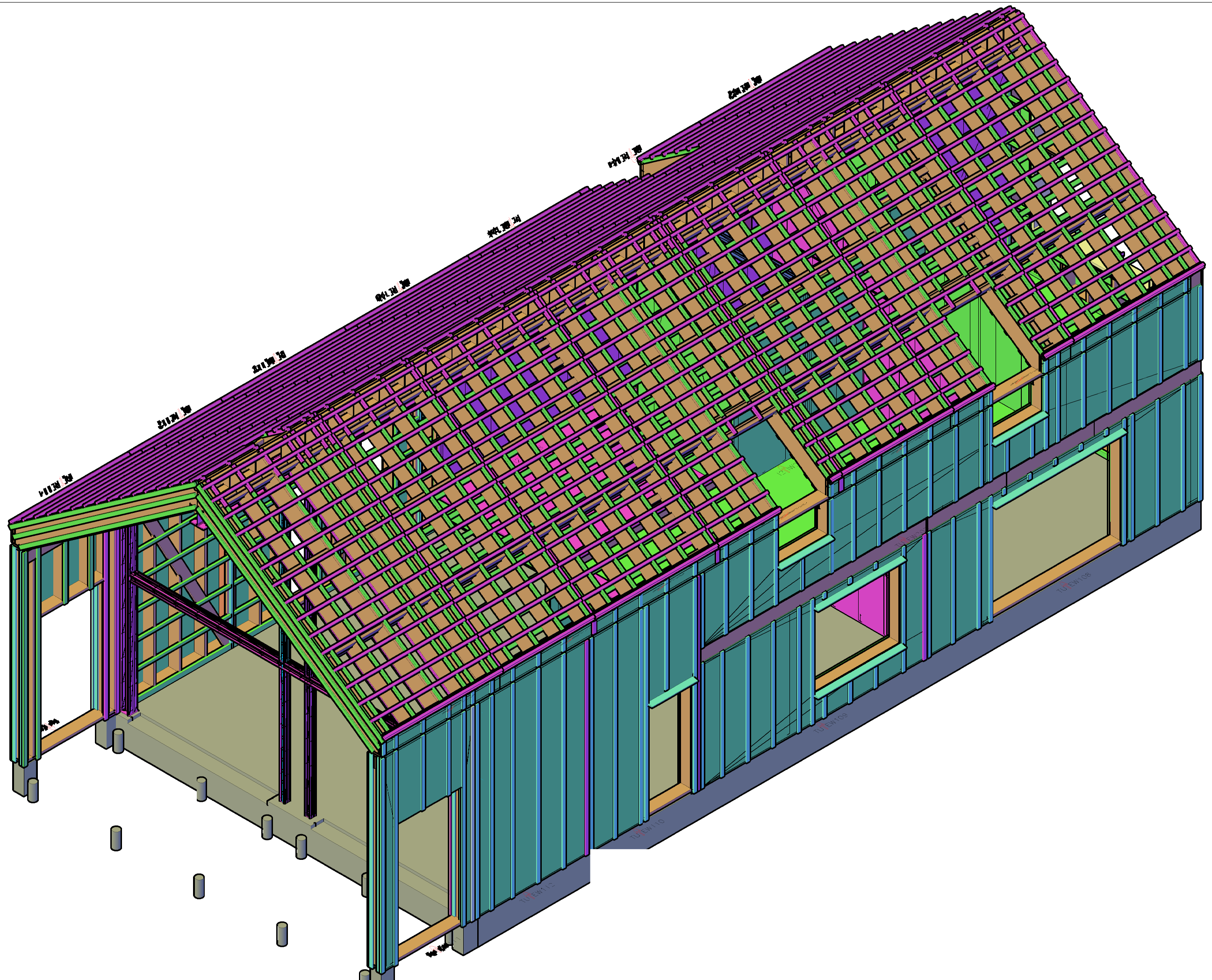


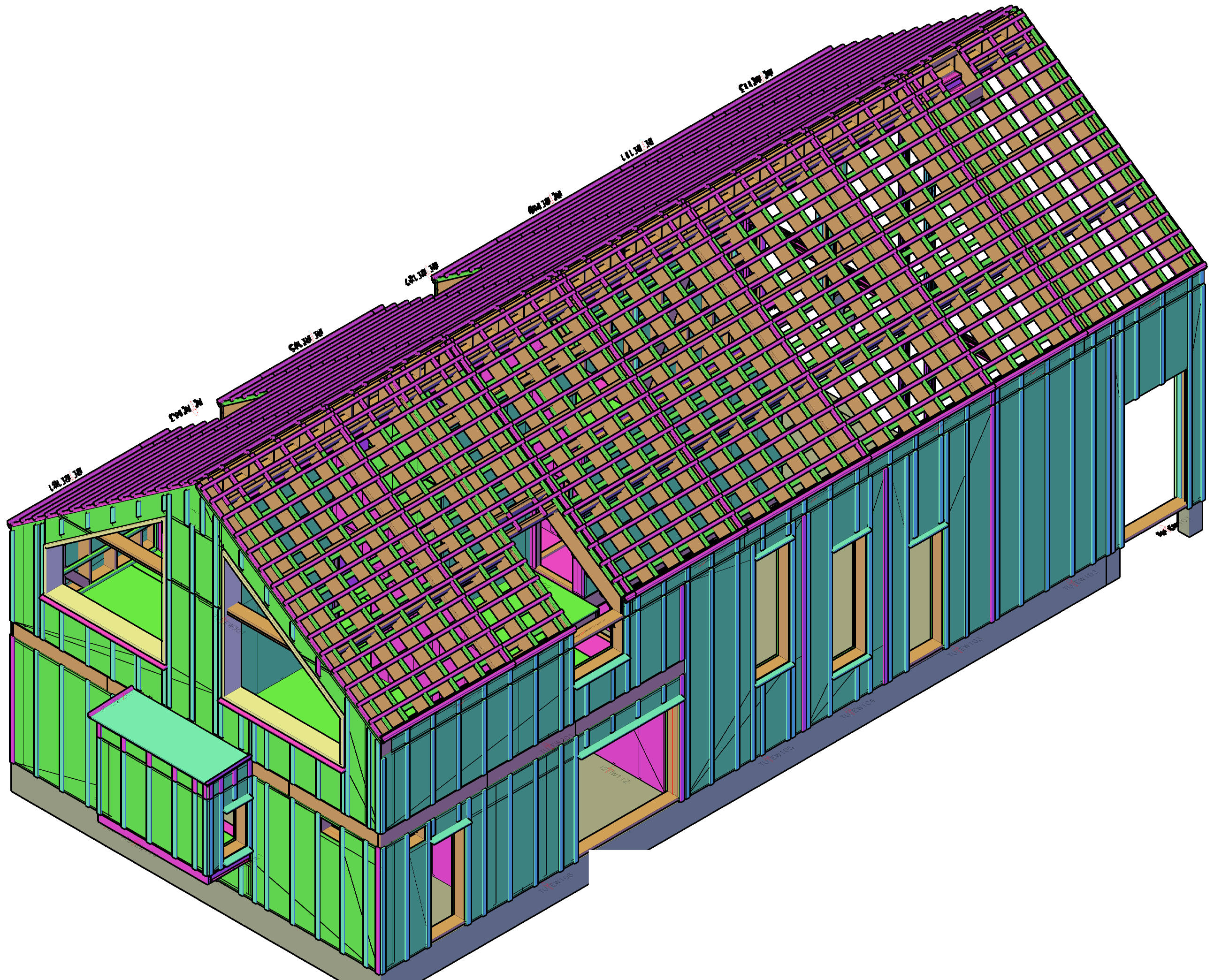
Mõõdud on natud elementide küljes olevatest kihtidest!



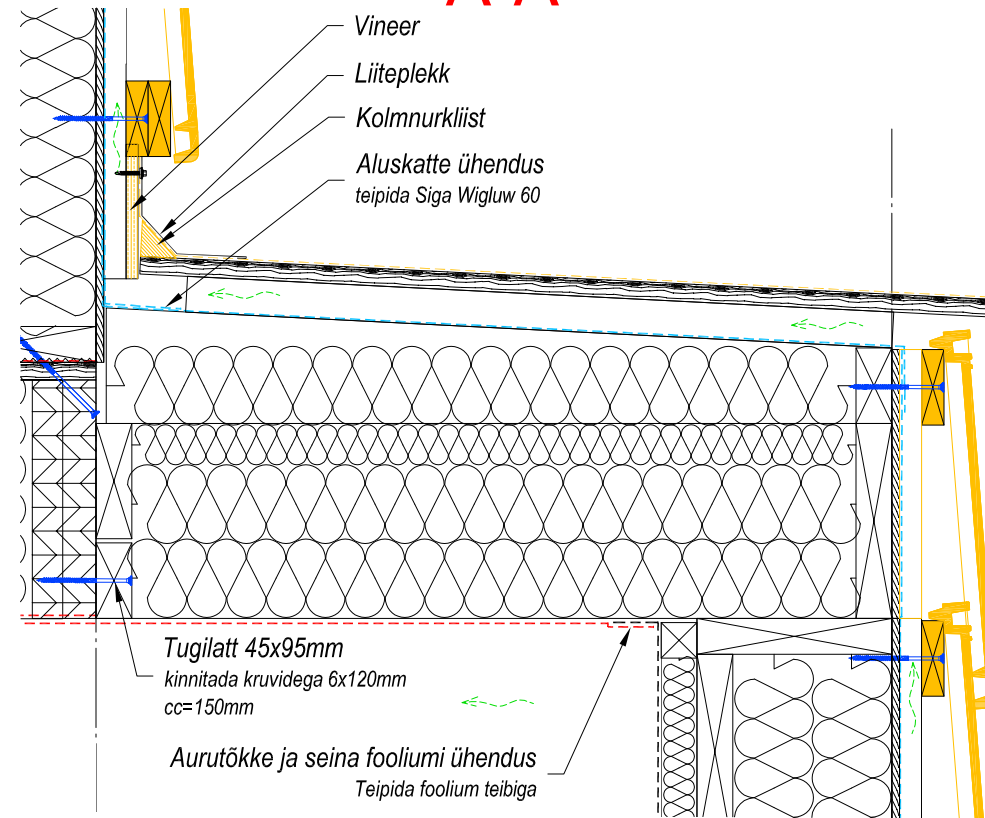




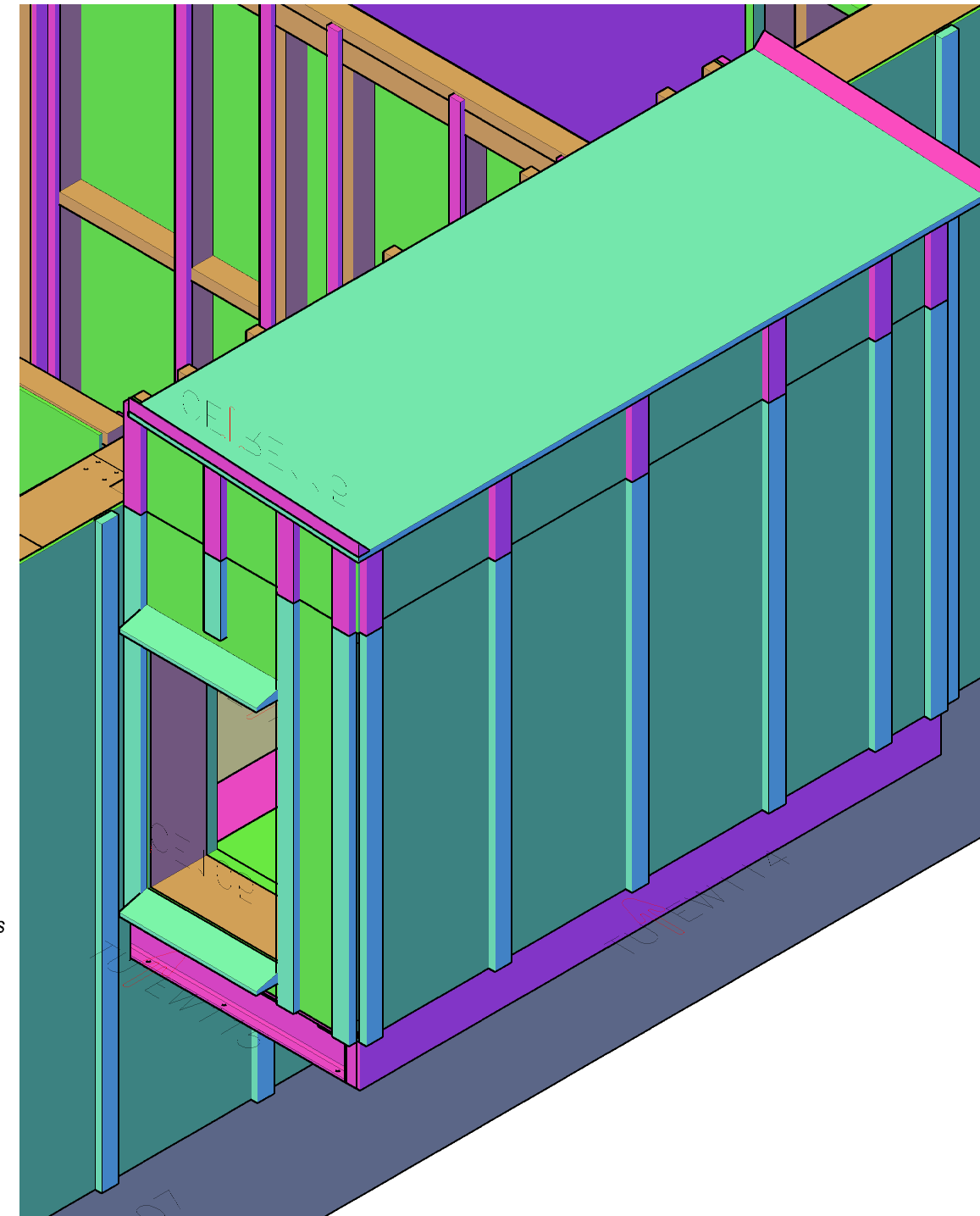
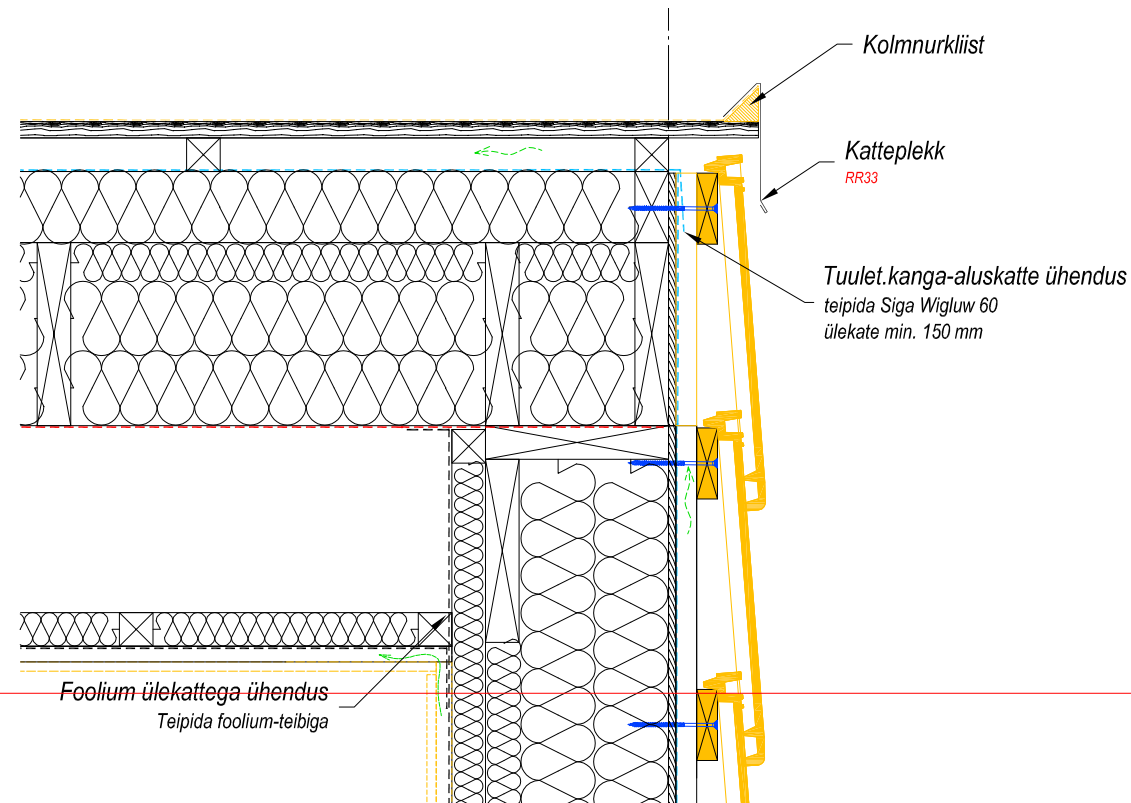




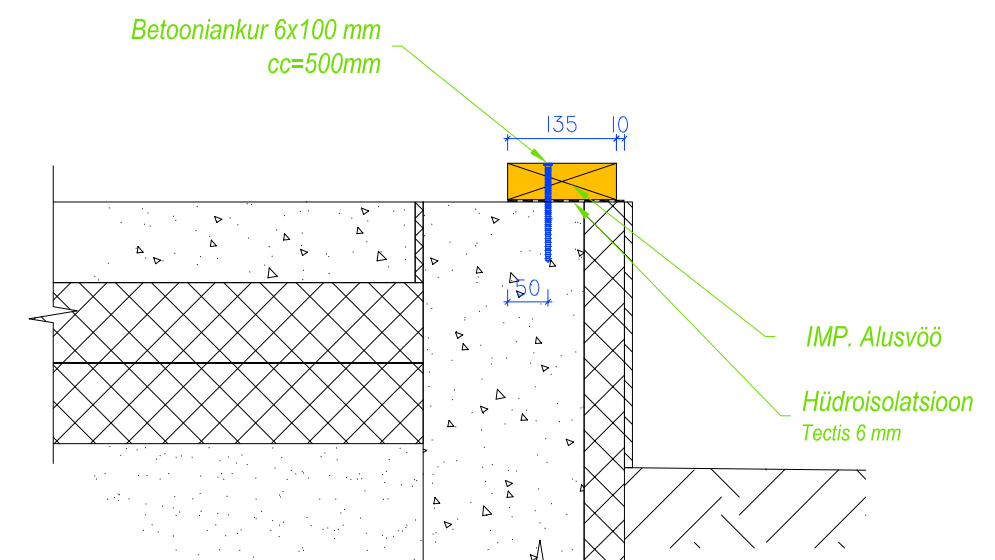
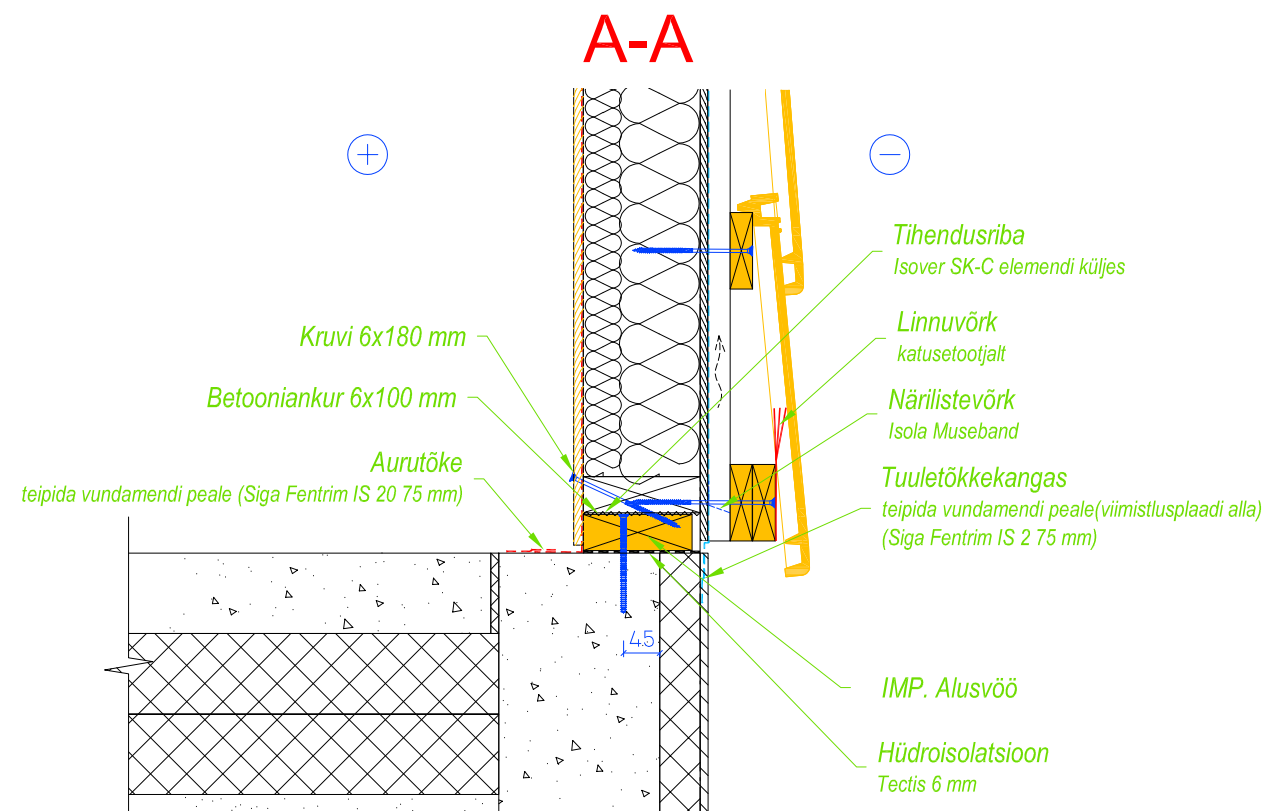
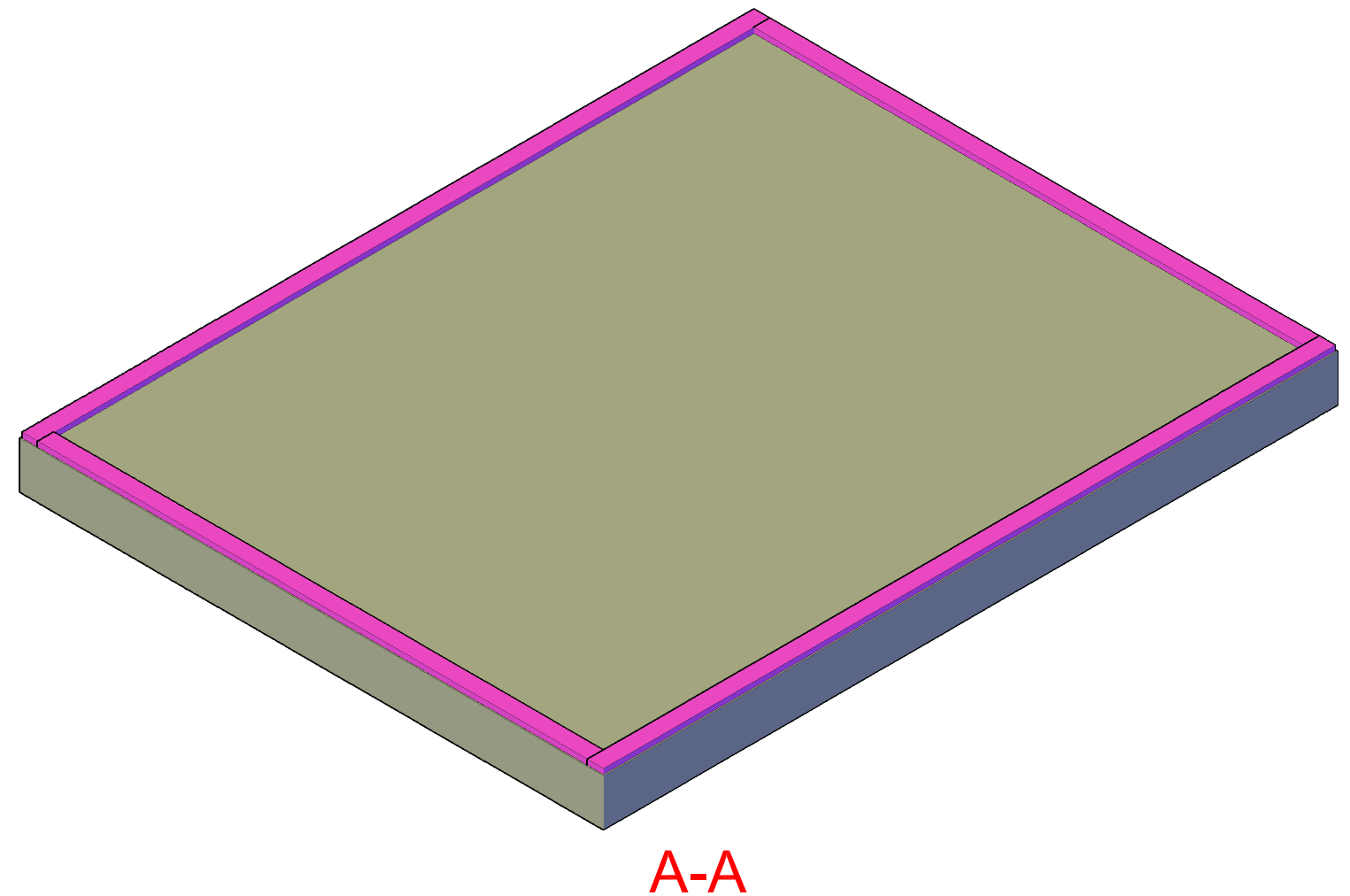
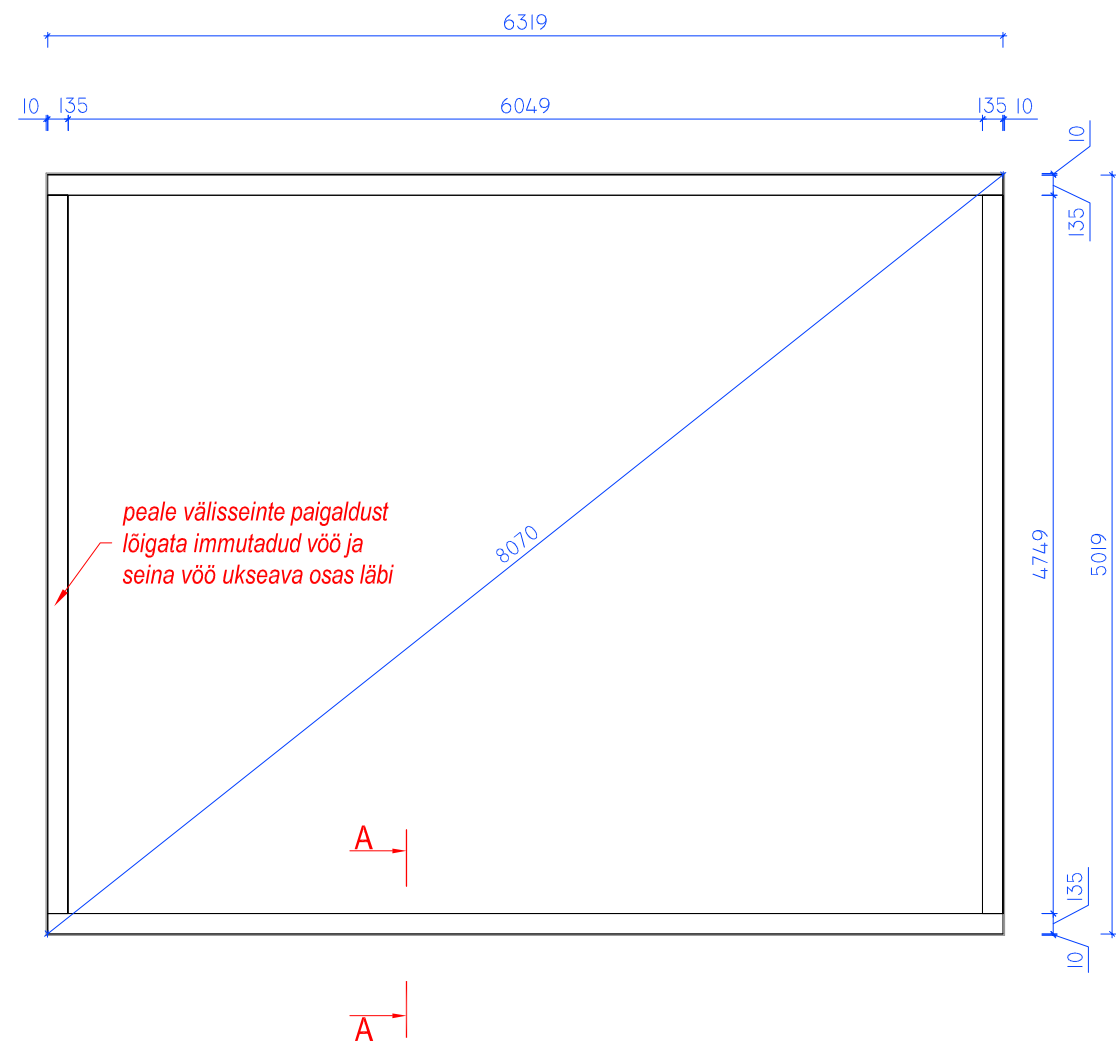
A-A

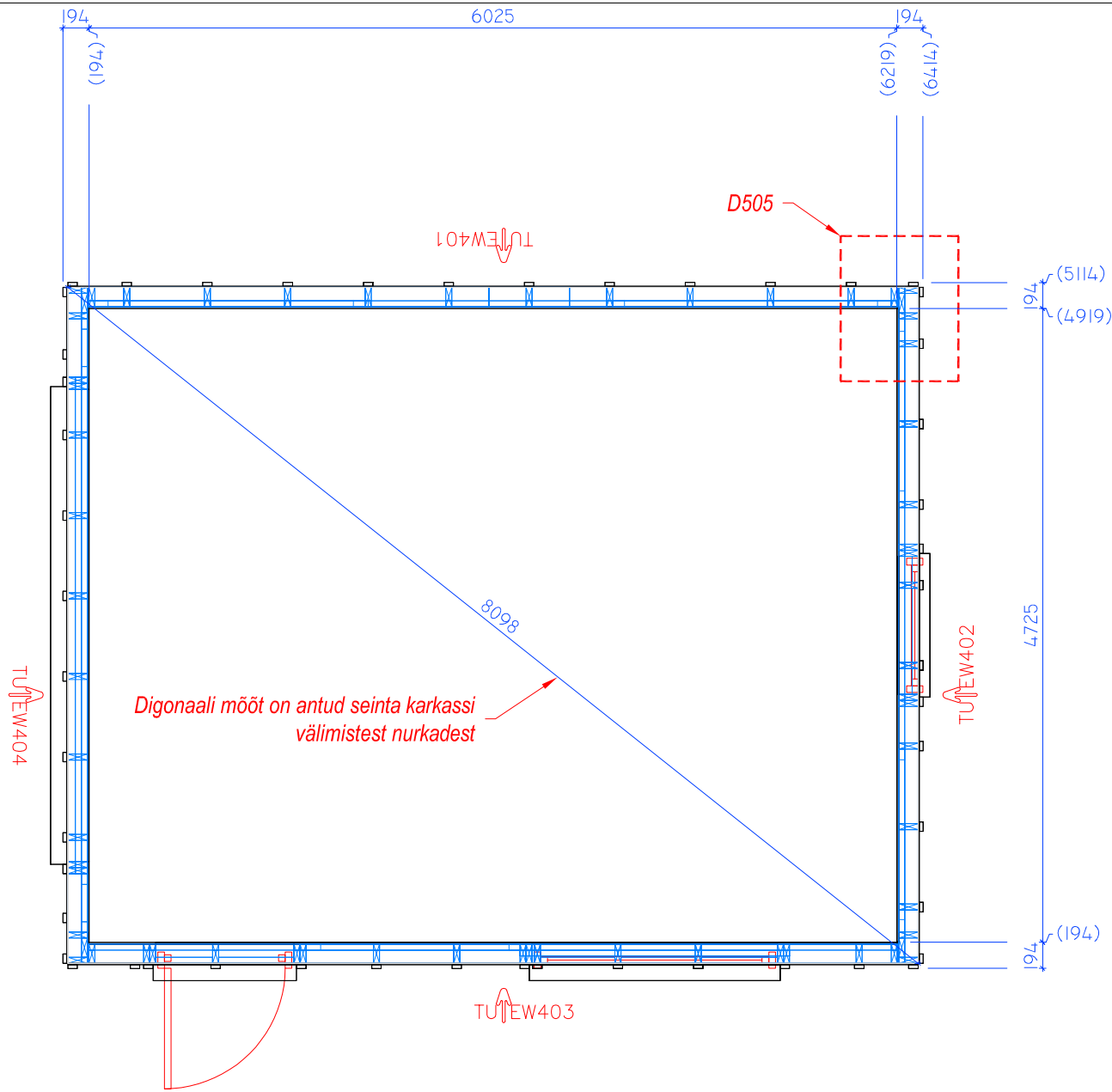


B-B

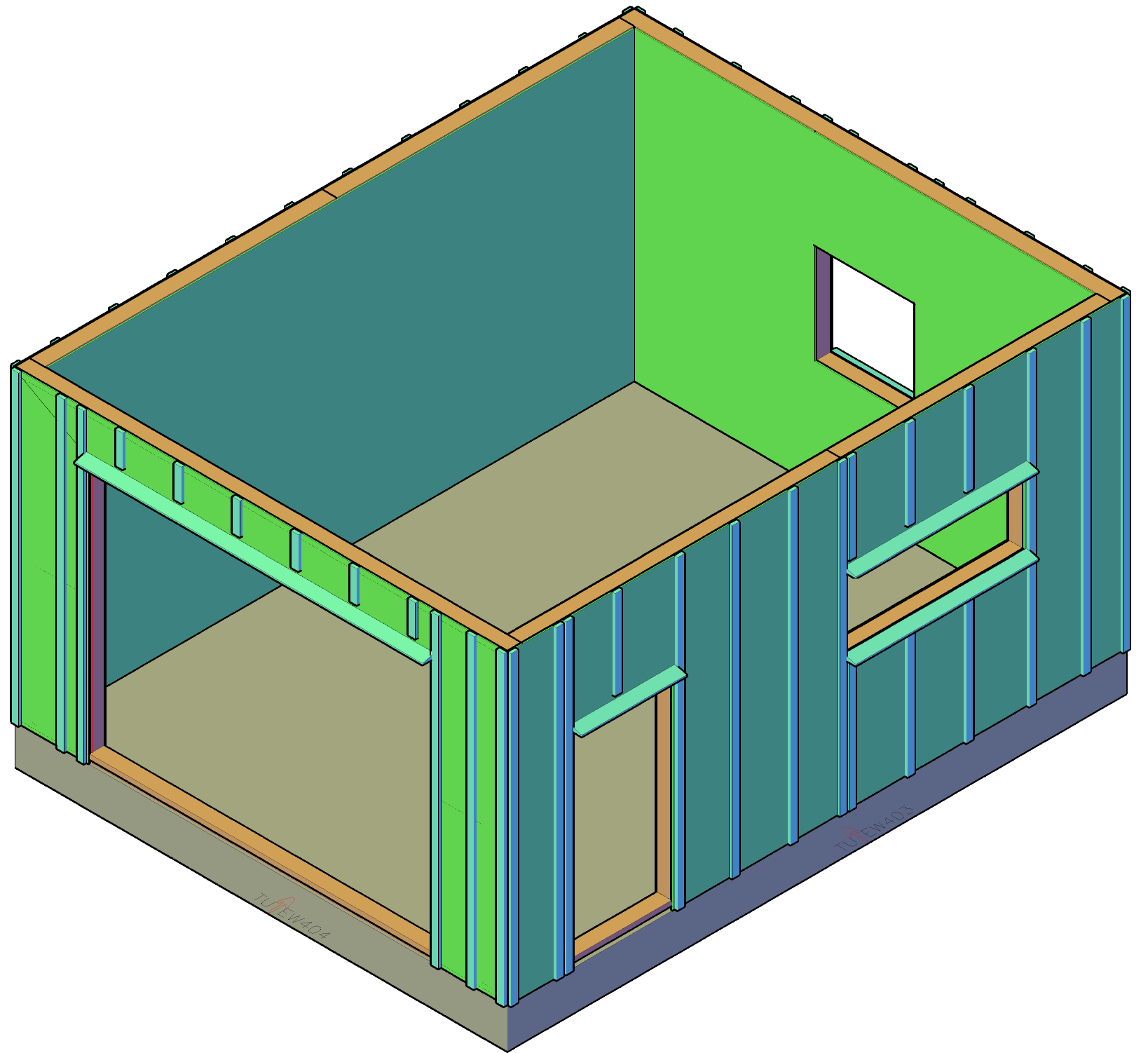
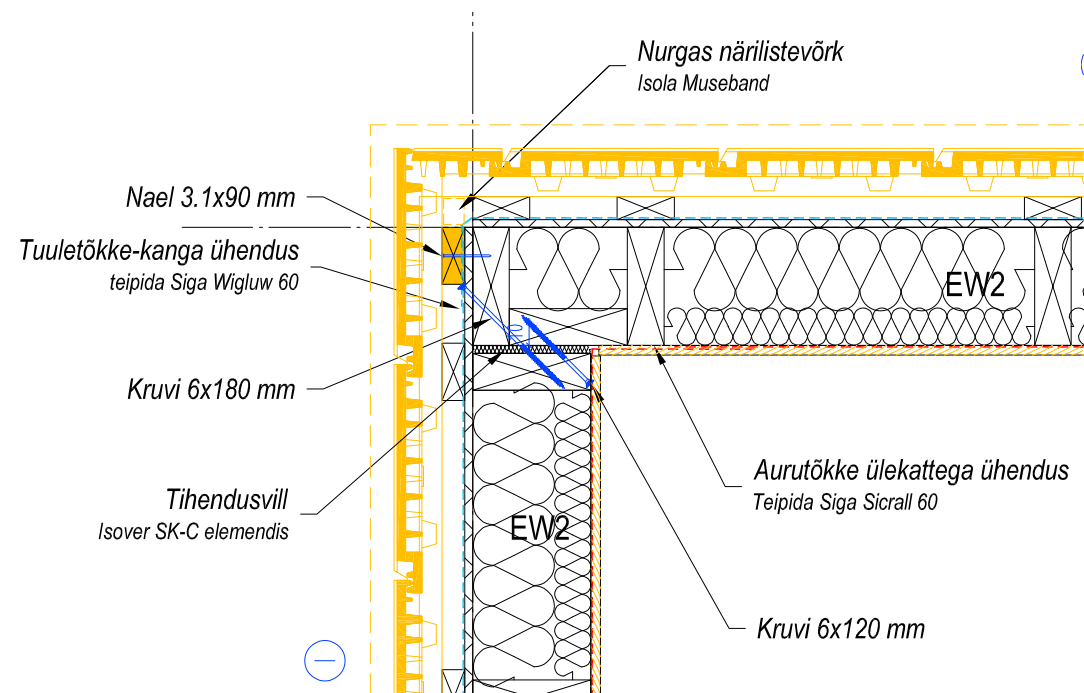


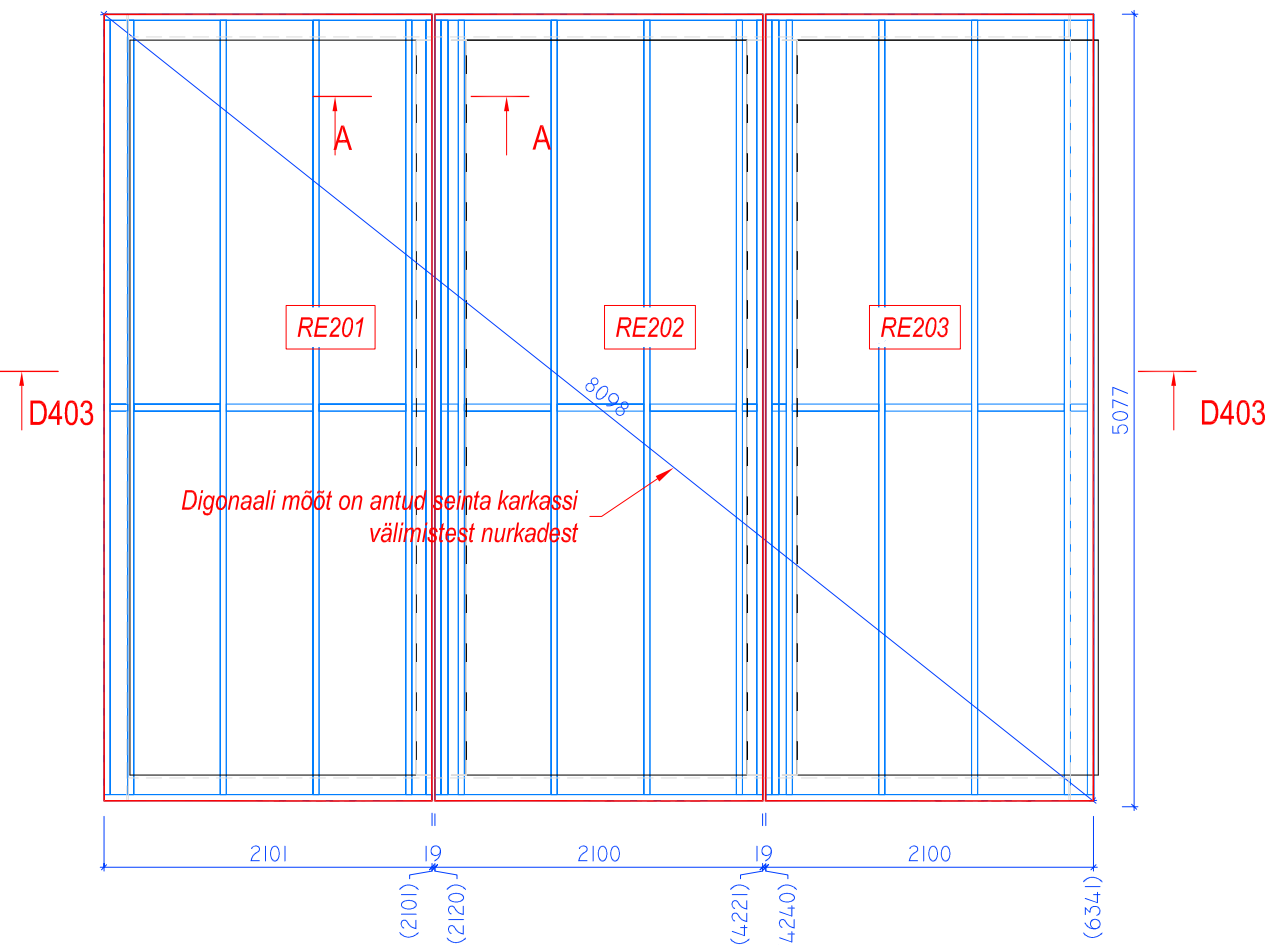
Möödud on natud elementide küljes olevatest kihtidest!



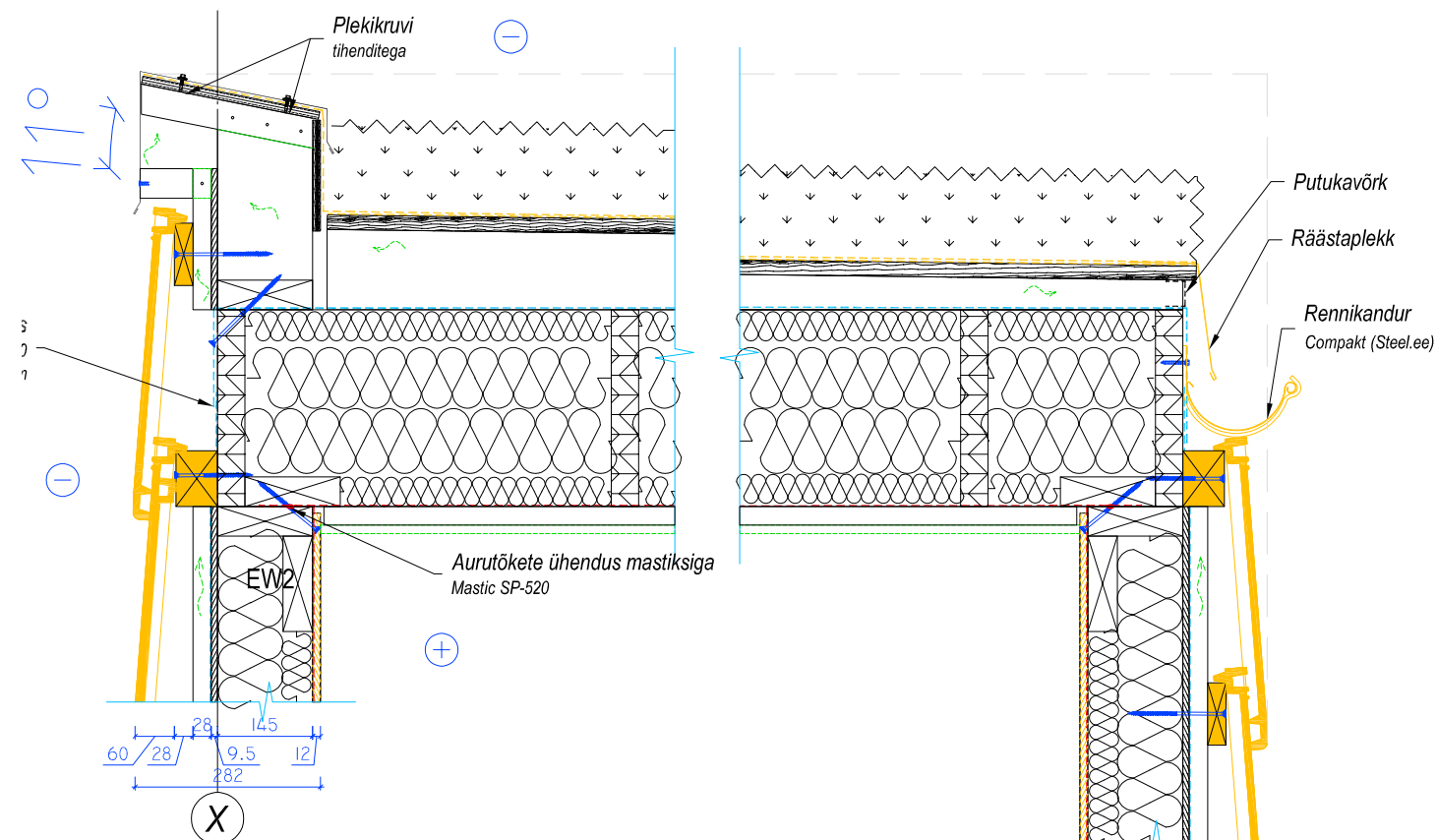


D 505

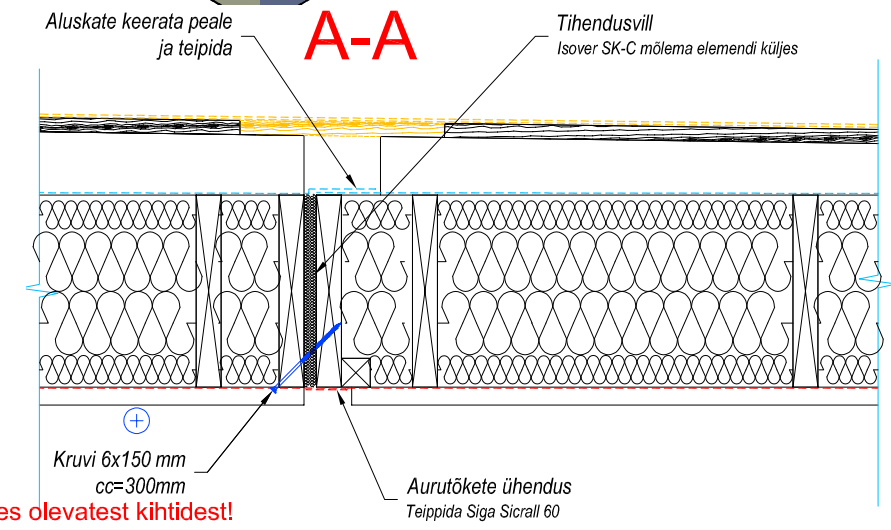
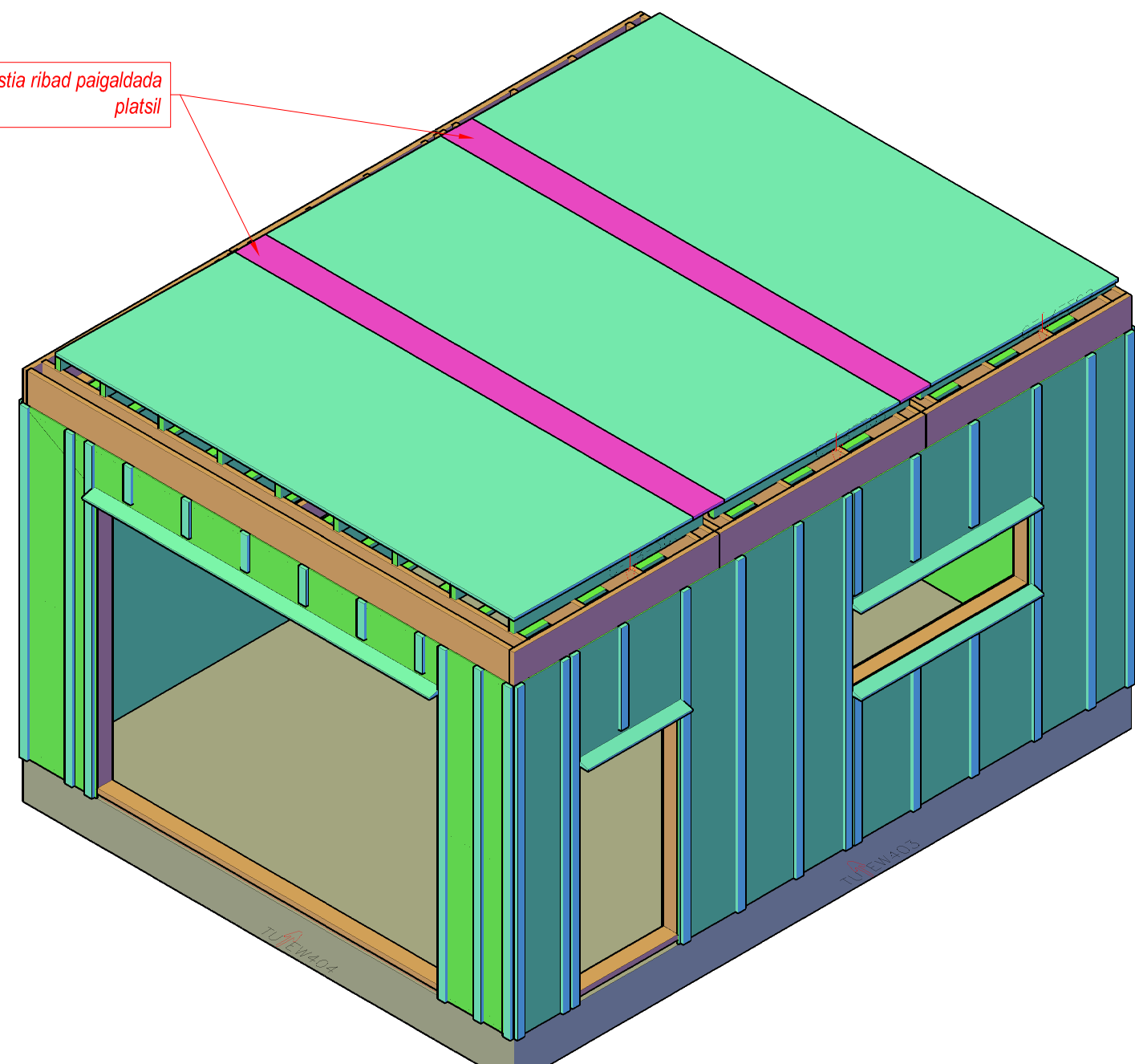




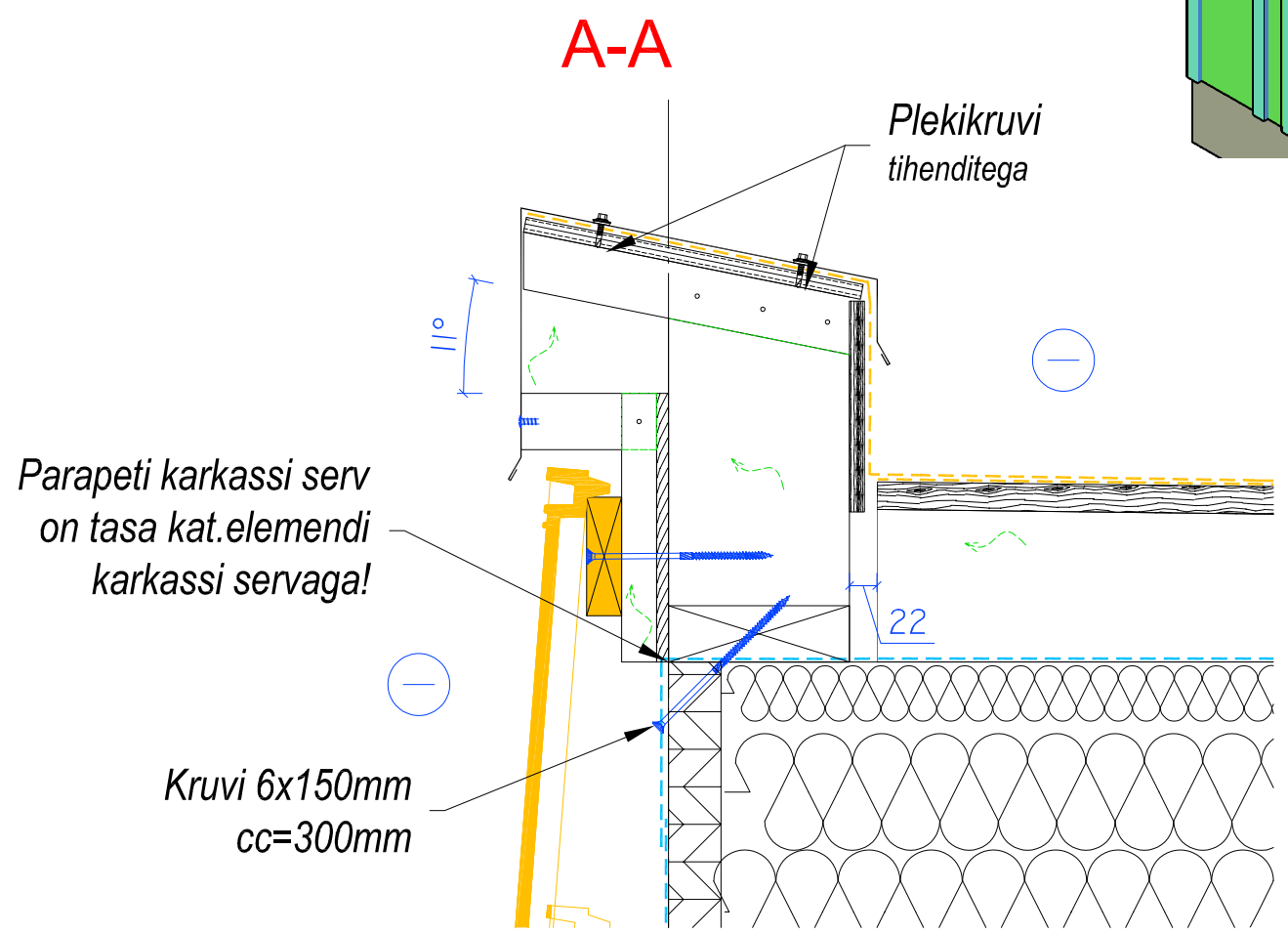
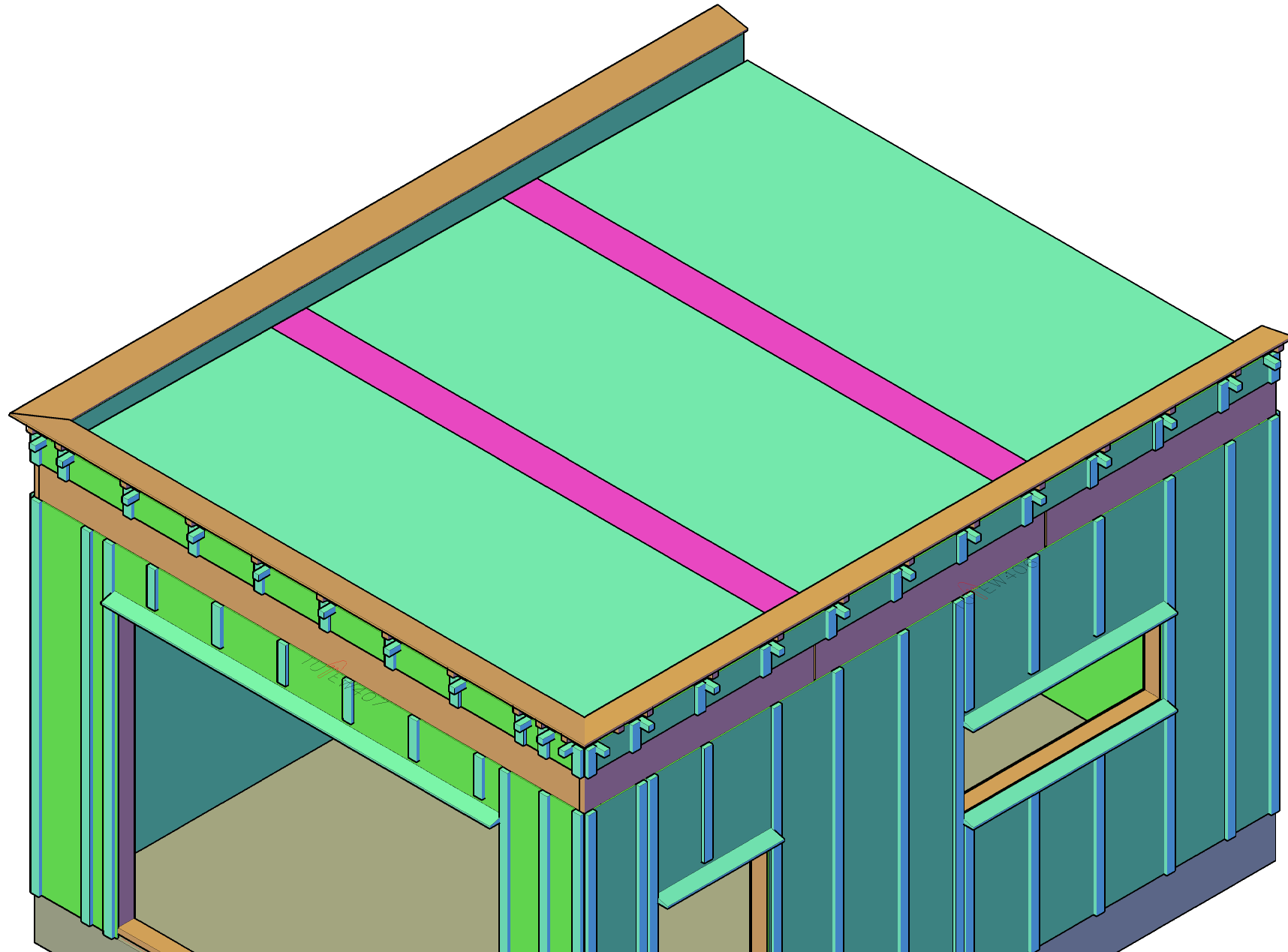
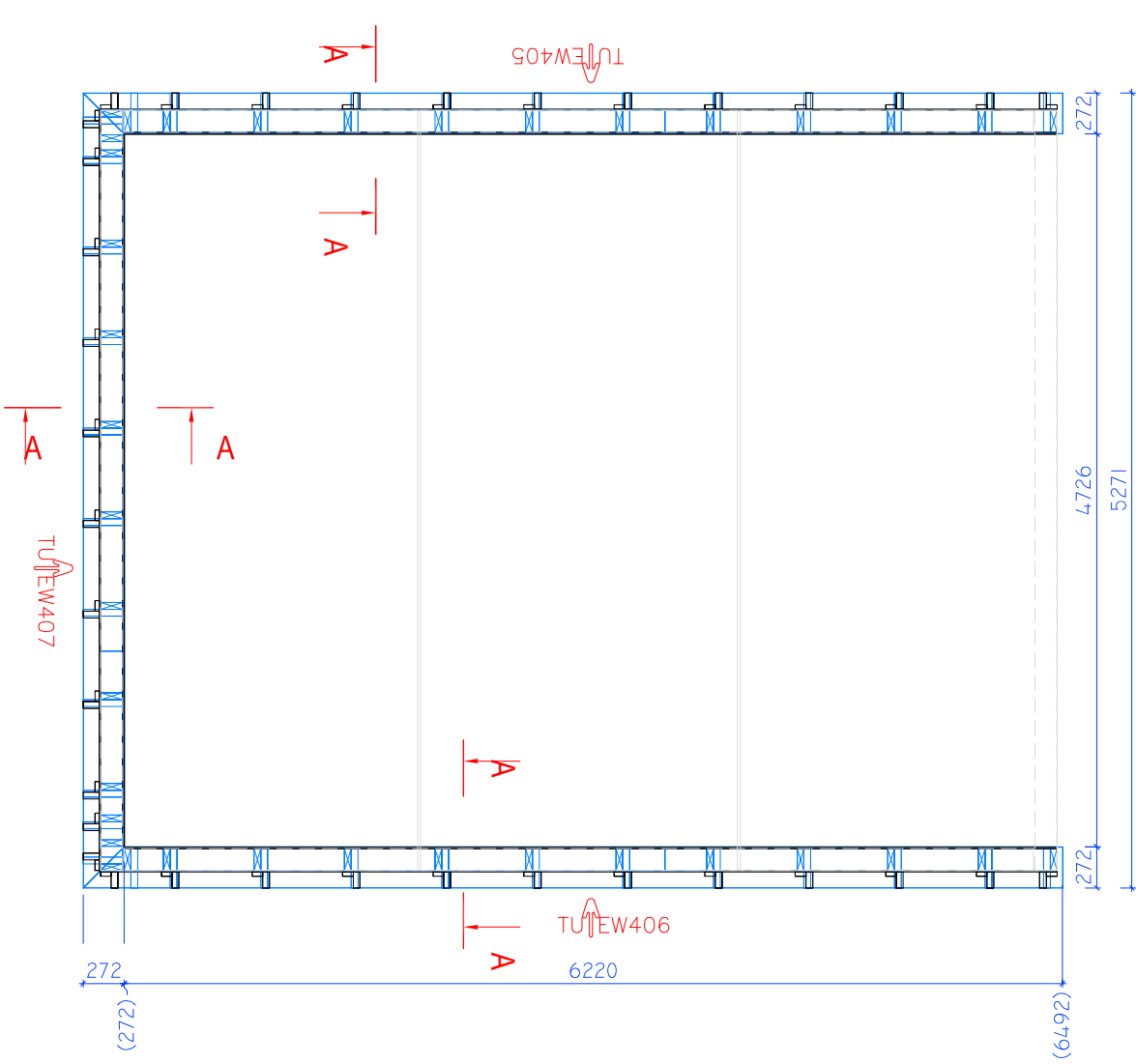
D 403



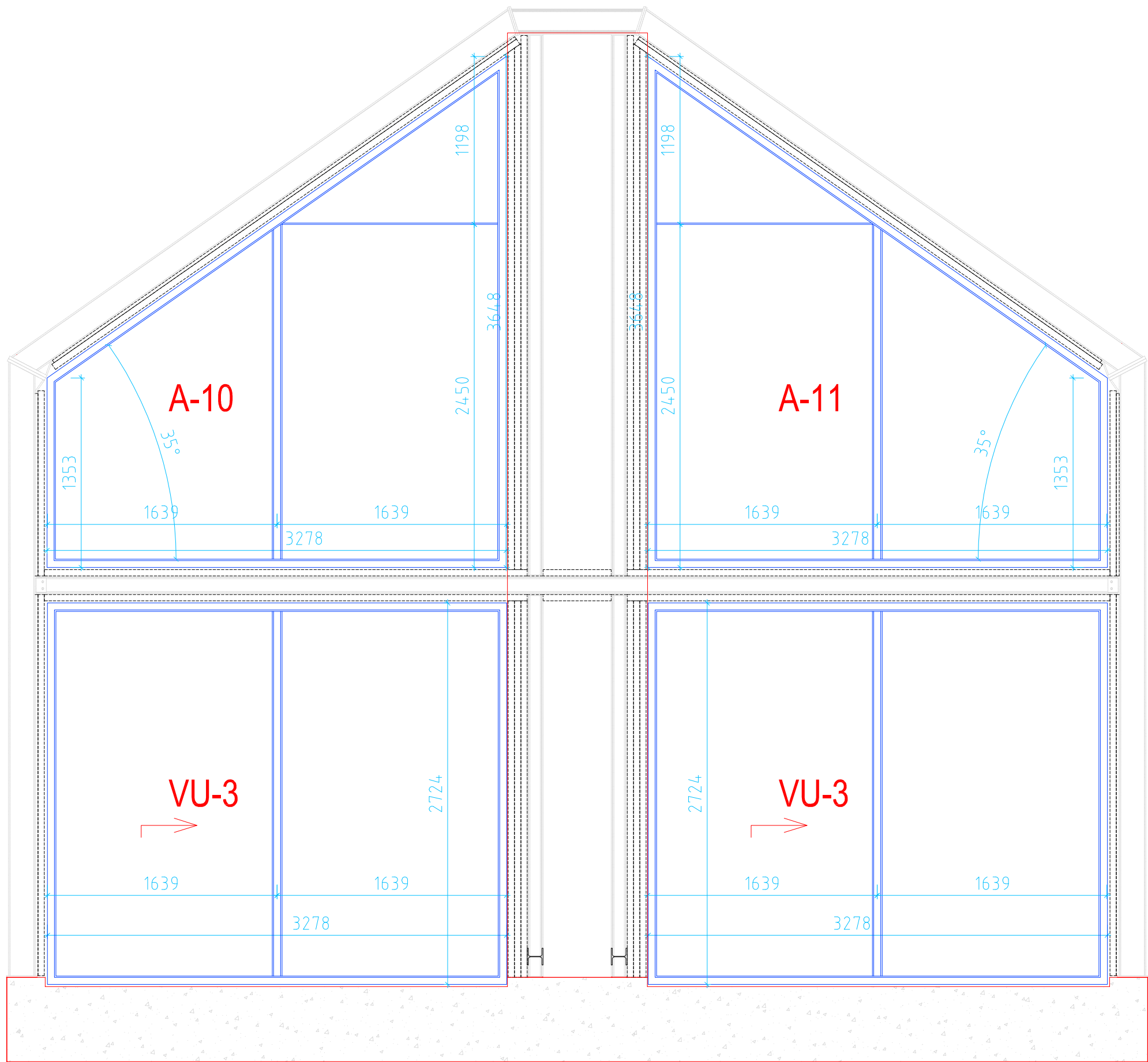
Need Forestia ribad paigaldada platsil



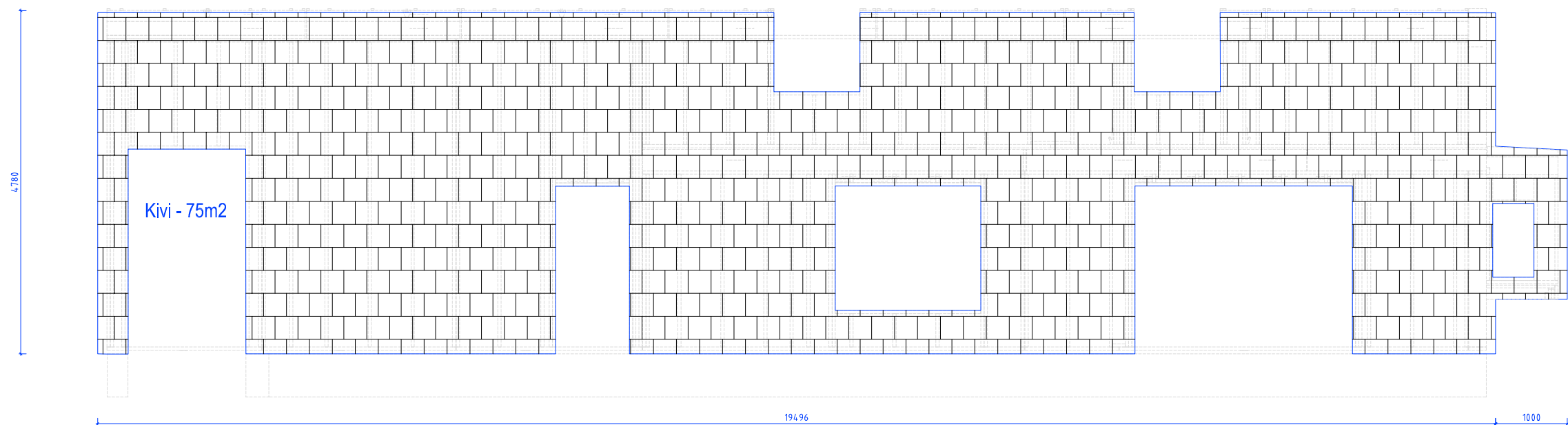
Möödud on natud elementide küljes olevatest kihtidest!



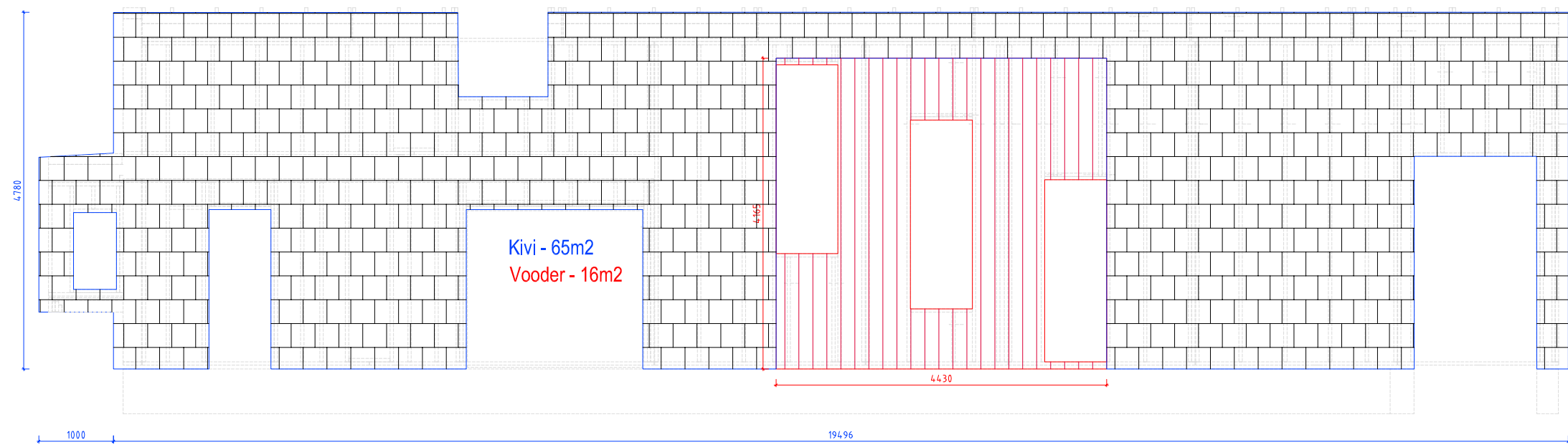
Mõõdud on natud elementide küljes olevatest kihtidest!



VAADE A



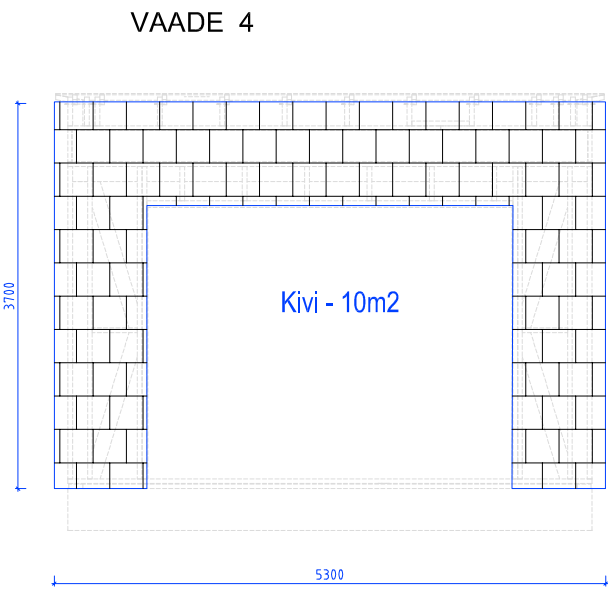
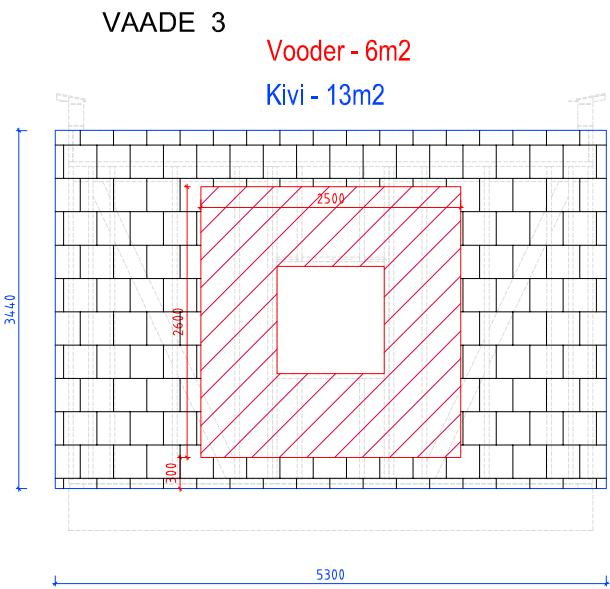
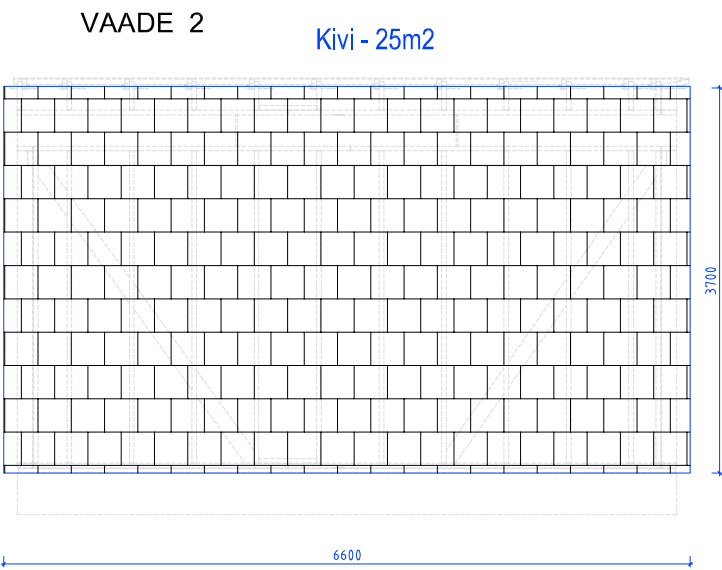
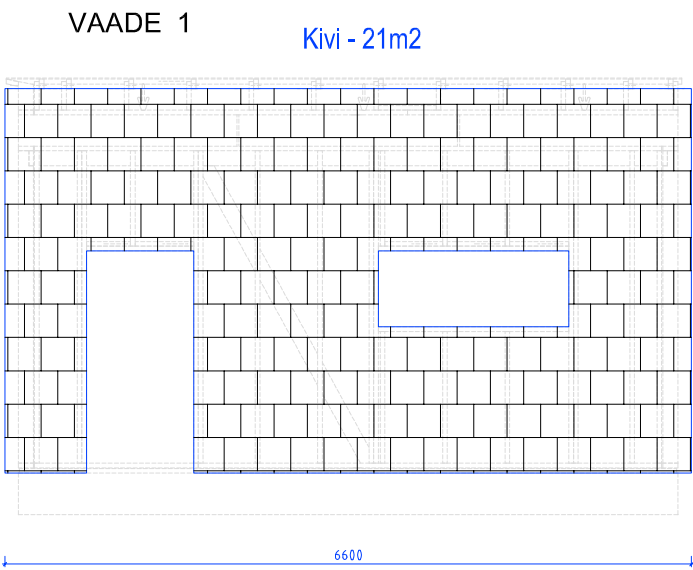
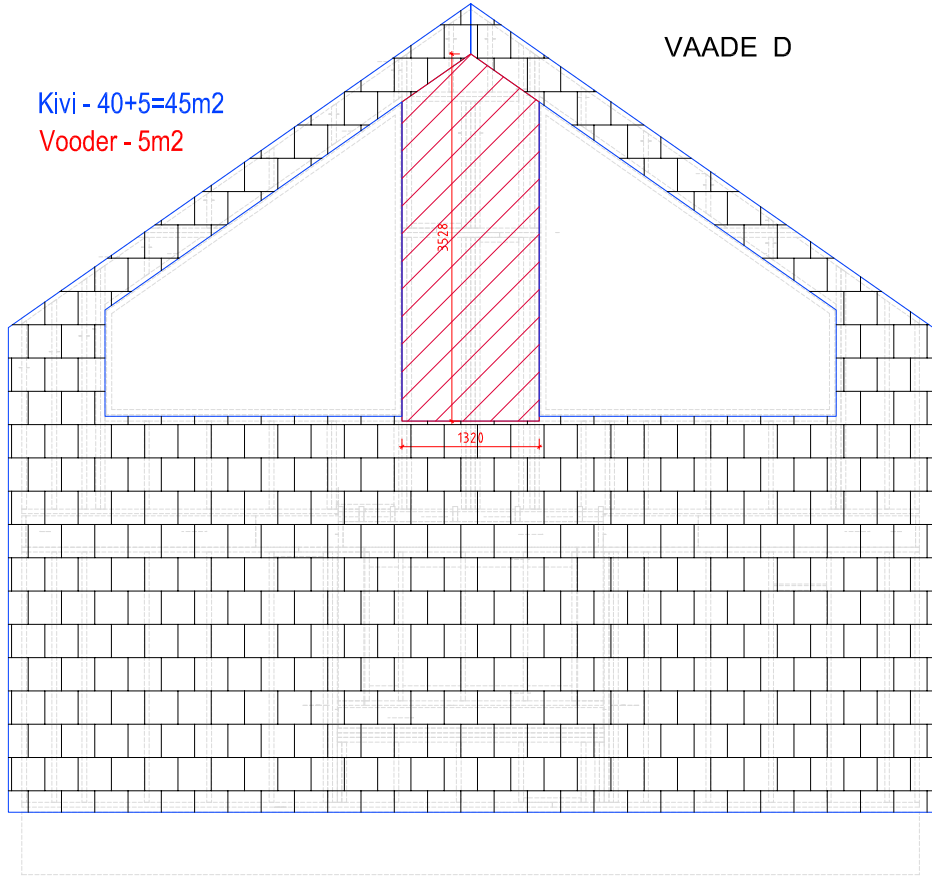
VAADE C



Antud mõõdud on soovituslikult, tuleb lähtuda reaalsest olukorrast platsil!
Vaiadusel tuleb kasutada voodrilaua ja fassaadikivi kinnitamiseks lisa nuiu



- puitvoodriga osa



 - puitvoodriga osa

Antud mõõdud on soovituslikult, tuleb lähtuda reaalsest olukorrast platsil!
Vajadusel tuleb kasutada voodrilaua ja fassaadikivi kinnitamiseks lisa puitu