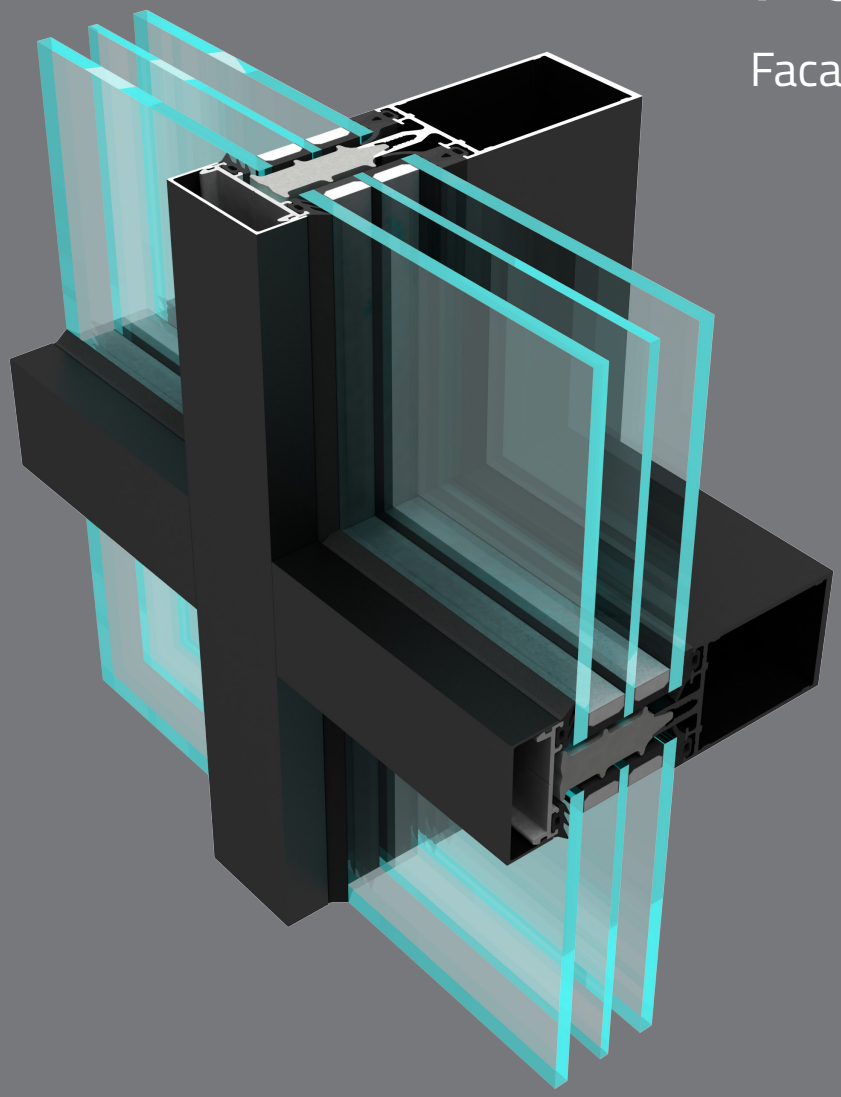
PURSO®

Fasadsystem

P50L
P60L

Facades



PURSO® Premium Partner in Building

Fasadsystem

P50L, P60L

Facade systems

Tillämpning
- Isolerat fasadsystem i aluminium

Detaljer
- Fönster och dörrar från Purso kan monteras i fasadsystemet på ett enkelt sätt.
- Pulverlackat eller anodiserat ytskikt för det enkla underhållets skull.
- Nya profilformer kan tas fram på kort tid vid behov till en låg kostnad.
- P50L/P60L är helt återvinningsbar.
- Minimalt med underhåll krävs.
- Hög motståndskraft mot vädrets makter.
- CE märkning enligt EN 13830
- Uppfyller skyddsklass RC2 & RC3 enligt EN 1627.

P50L fasadsystem
- Profilbredd 50mm
- Profildjup mellan 5..250 mm.
- Plats för glaspaket mellan 20..62 mm
- Profilens u-värde startar på låga 0,65 W/m^{2}K.
- Brandklassat i EI-30 och EI-60.

P60L fasadsystem
- Profilbredd 60 mm.
- Profildjup upp till 250 mm.
- Plats för glaspaket 20..62 mm
- Går att kombinera med P50L.

Applications
- Thermal insulated facade system

Features
- Doors and windows from PURSO system can be easily mounted to P50L facade system
- Powder coated or anodized surface treatment.
- New profile shapes can be produced quickly when necessary with low costs
- Completely recyclable
- Minimal care and maintanance required
- High resistance to any weather conditions
- CE marking according to standard EN 13830
- Burglar resistance in accordance with EN 1627: Class RC2, RC3

P50L facade system
- Frame width 50 mm
- Frame depths up to 250 mm
- Thickness of IGU 20..62 mm
- Frame Uf-value starting from 0.65 W/m^{2}K
- EI30/EI60 Fire resistant facade

P60L facade system
- Frame width 60 mm
- Frame depths up to 250 mm
- Thickness of IGU 20..62 mm
- Can use with P50L facade system

P50L/ P60L FASADER
P50L/ P60L FACADES

P50L Fasad 1
P50L facade

Vinterträdgårdar 2
Bay window

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Infoga dörrar och fönster i P50L 4
Joining windows and door to P50L series

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Lap joint

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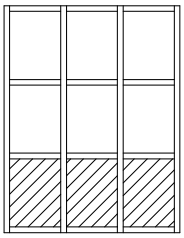
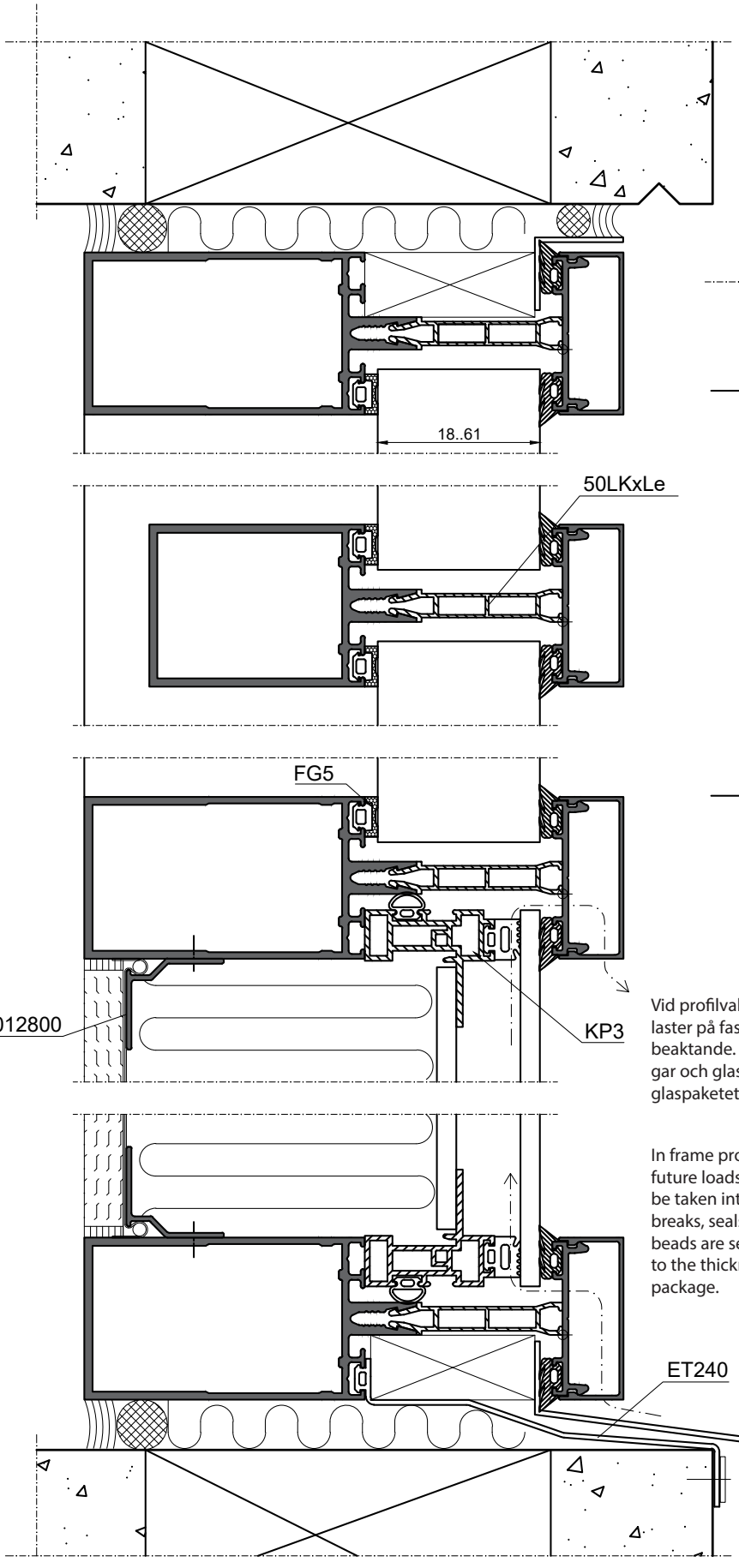
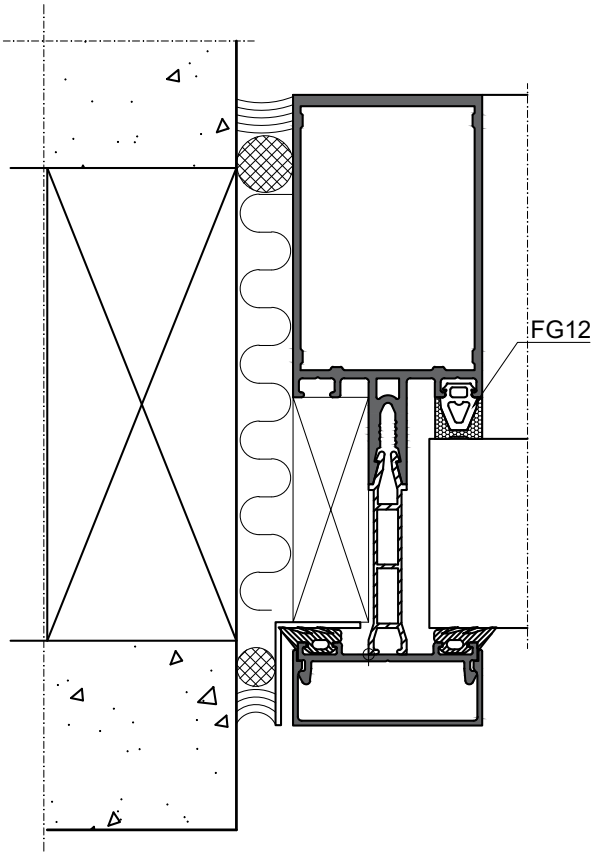
Glazing bead

CE-märkning av P50L fasadsystem 15
CE marking of Purso P50L facade systems

P50L FASAD
P50L FACADE

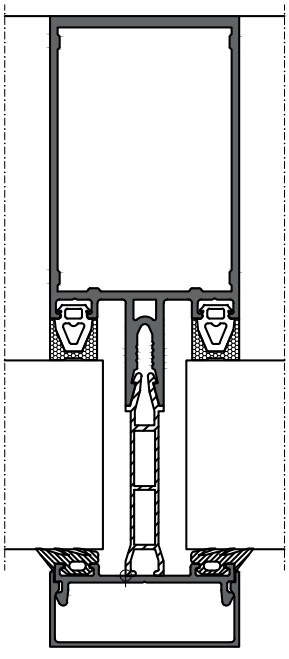




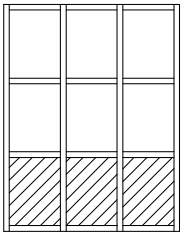


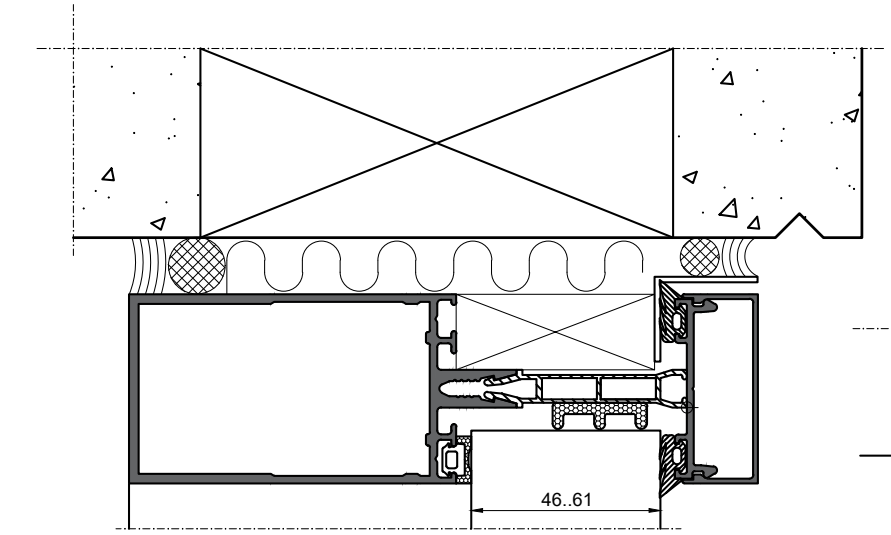
Vid profilval måste framtida laster på fasadsystemet tas i beaktande. Isolatorer, tätningar och glaslister väljs efter glaspaketets tjocklek.

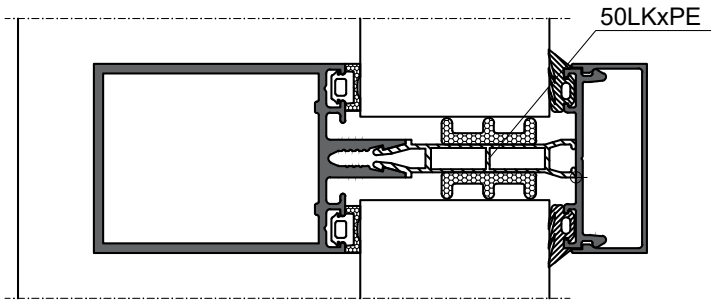
In frame profile selection, the future loads on the frame must be taken into account. Thermal breaks, seals and glazing beads are selected according to the thickness of the glass package.

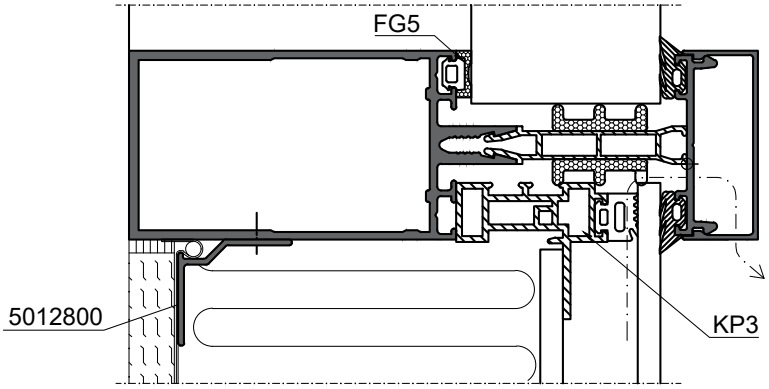


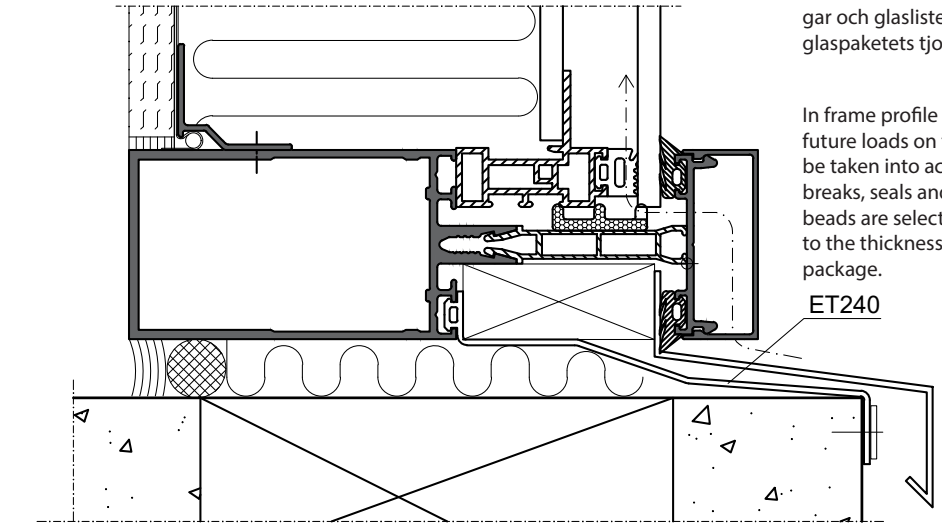
P50LP FASAD
P50LP FACADE

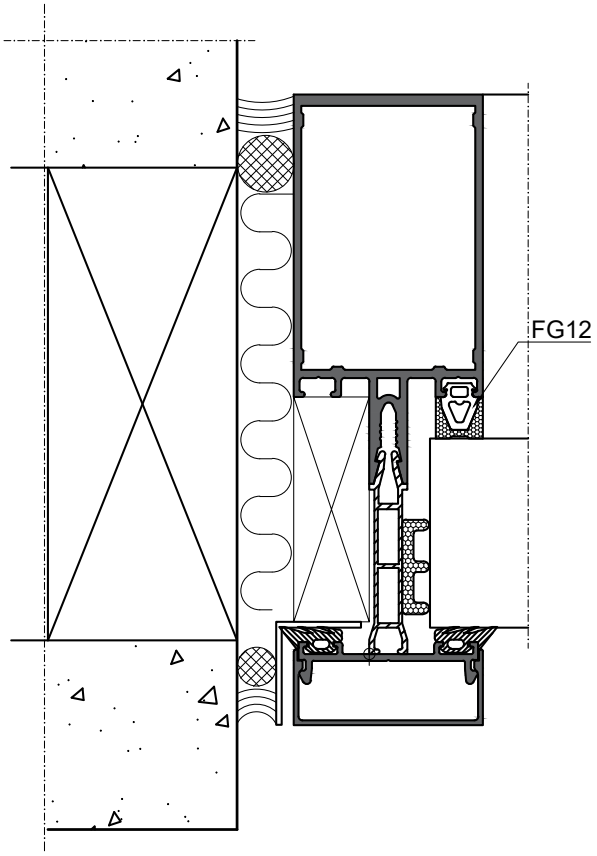


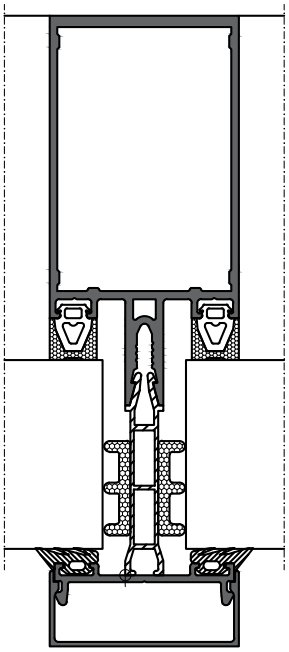












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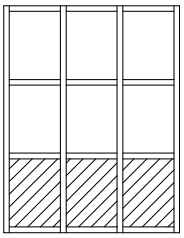
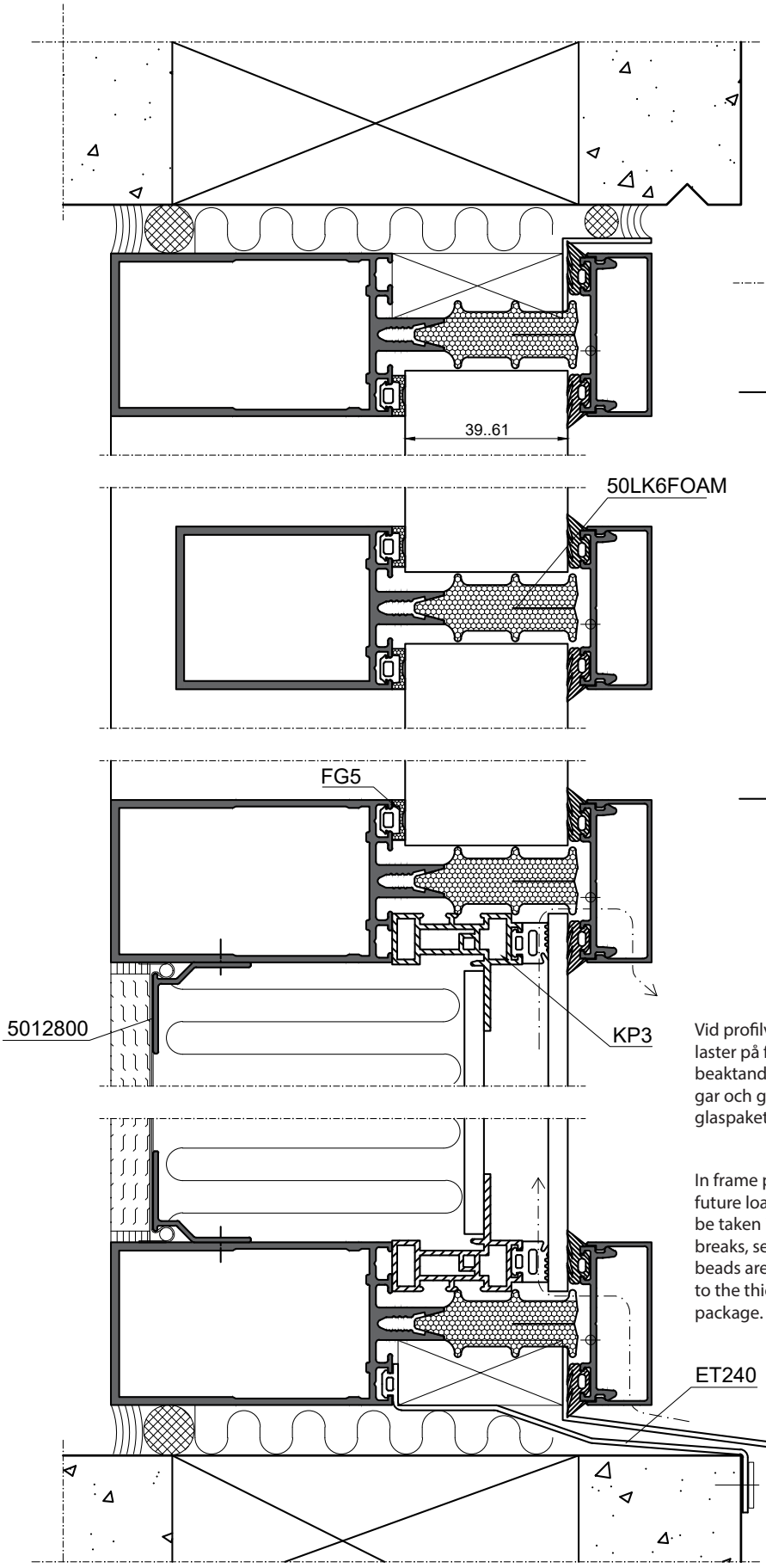
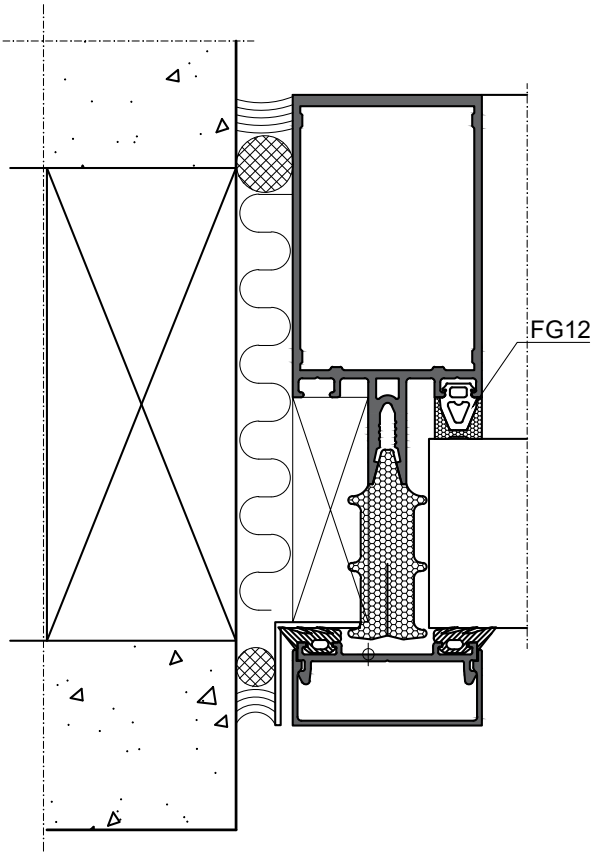
P50LPE FASAD
P50LPE FACADE







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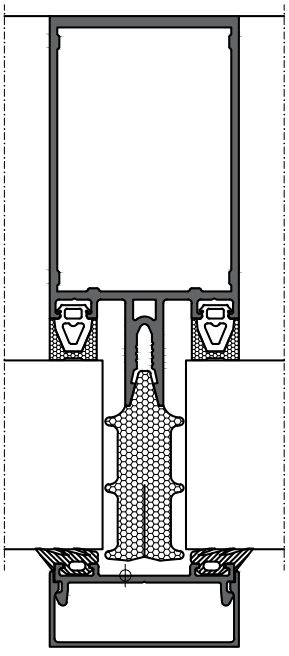
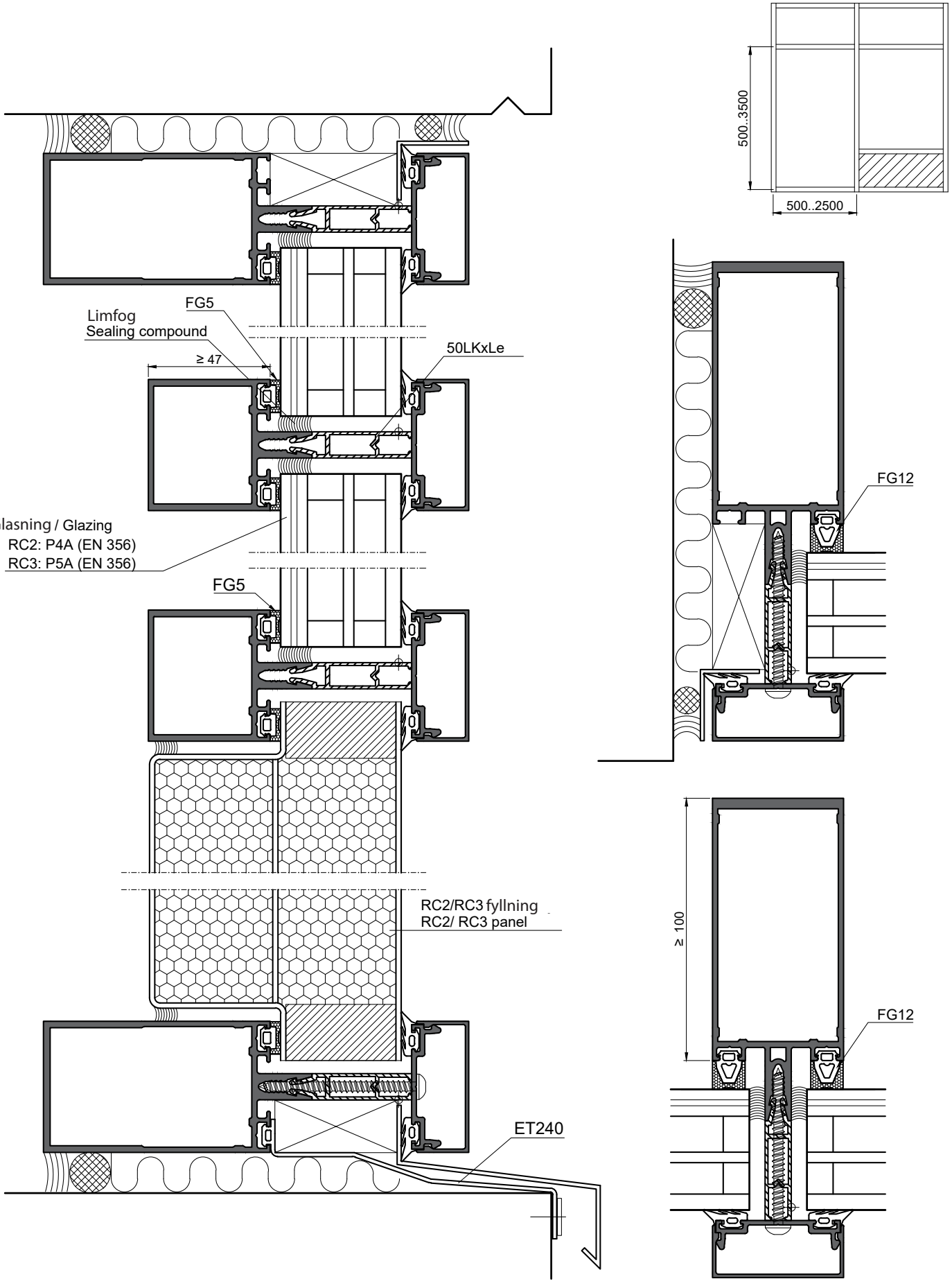
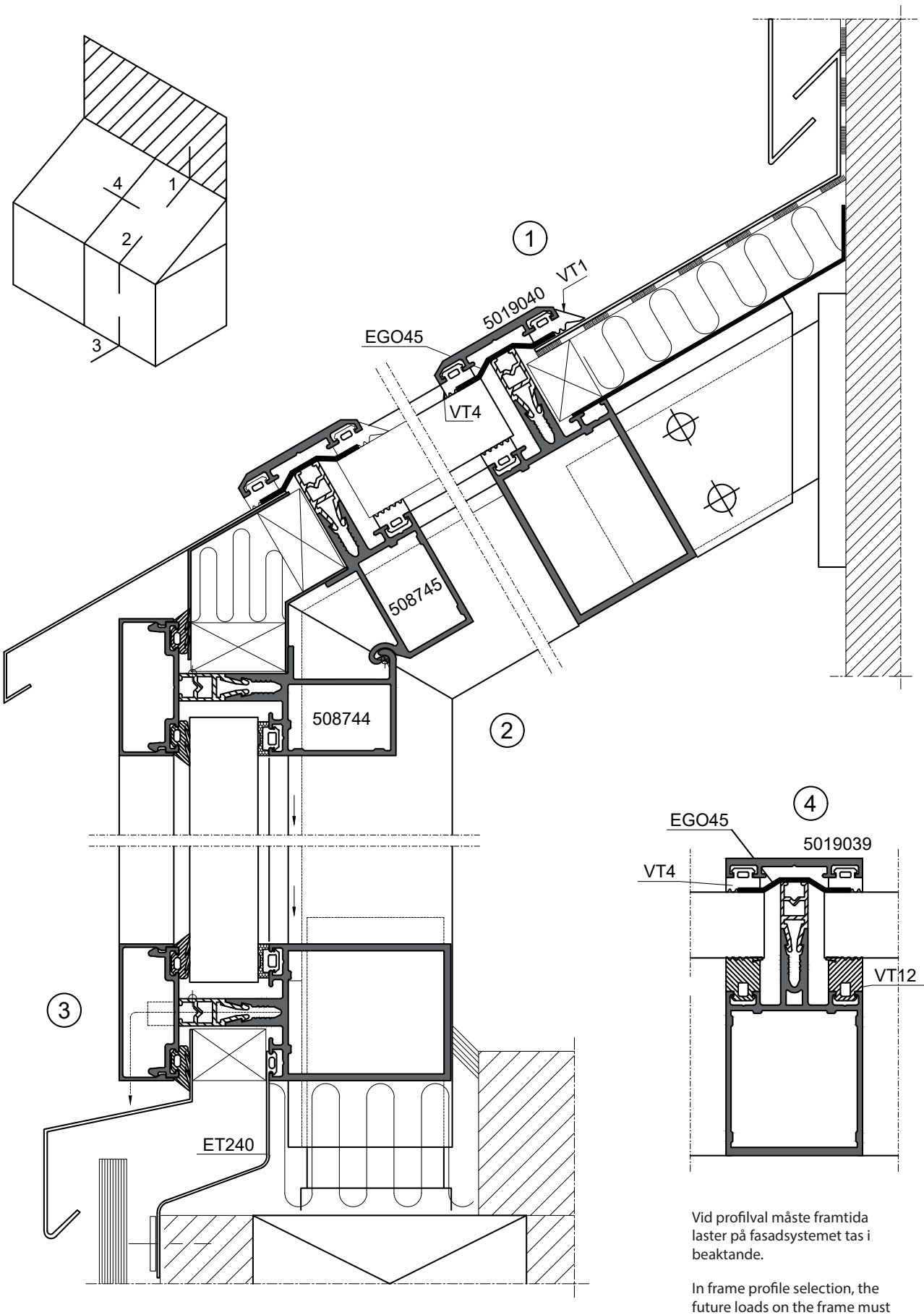


P50L RC2/ RC3 FASAD
P50L RC2/RC3 FACADE



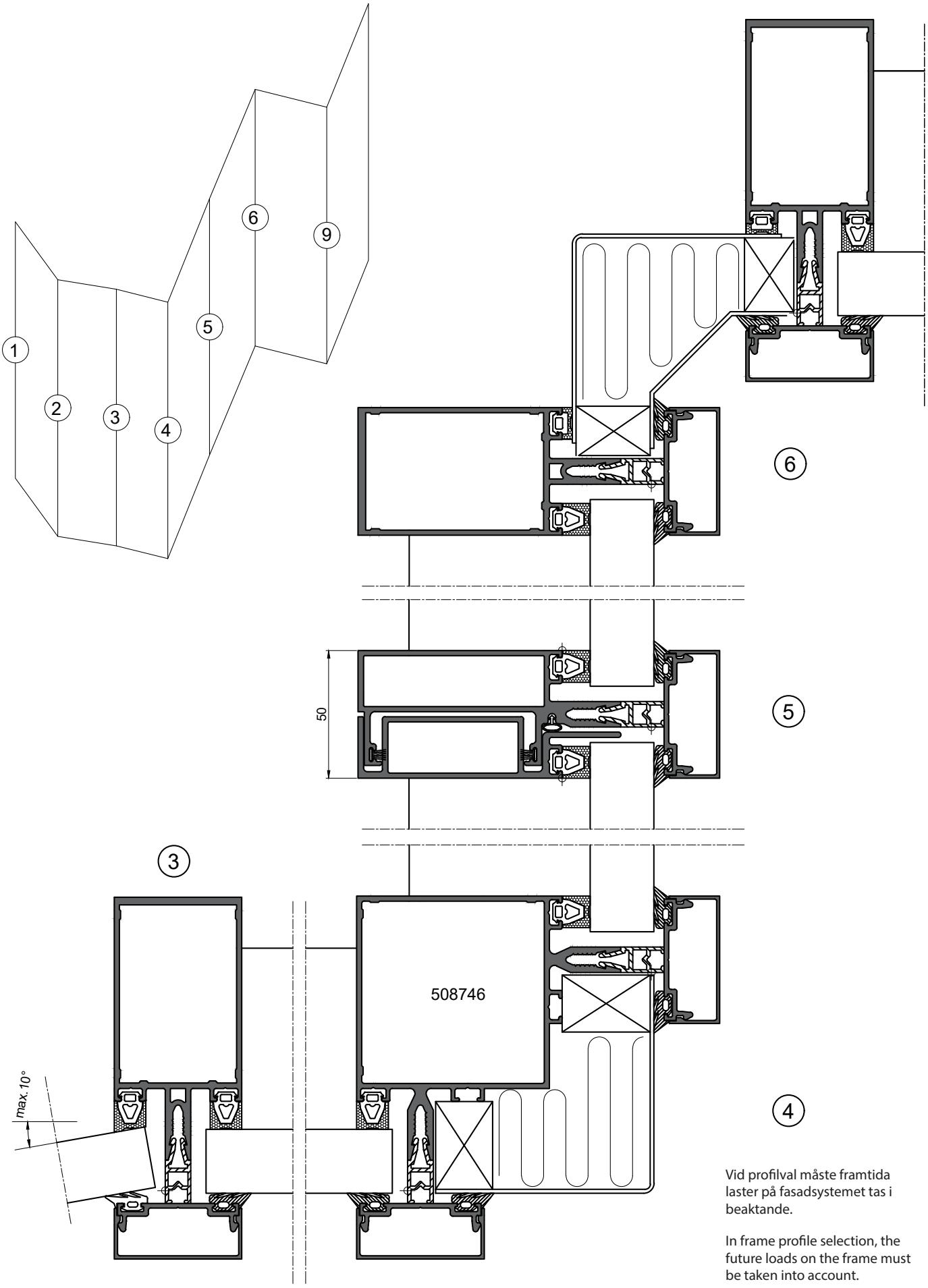
VINTERTRÄDGÅRDAR
BAY WINDOW



Vid profilval måste framtida laster på fasadsystemet tas i beaktande.

In frame profile selection, the future loads on the frame must be taken into account.

HÖRNEXEMPEL
CORNER EXAMPLES



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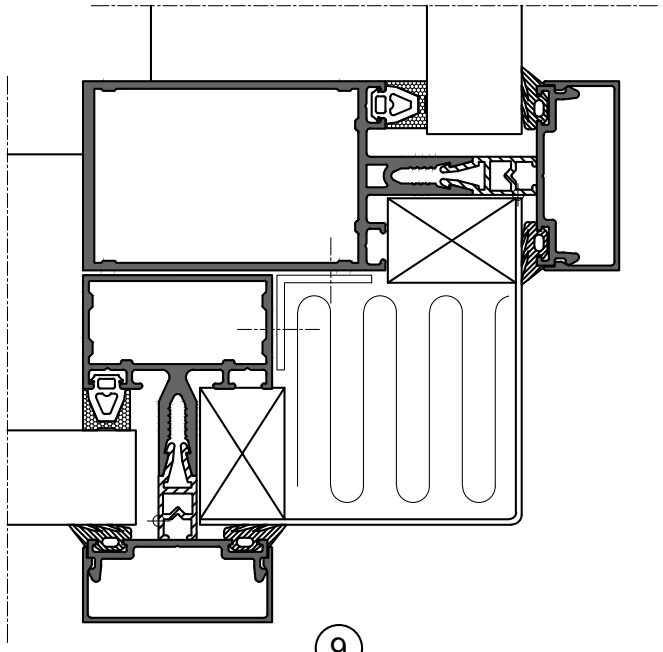
CORNER EXAMPLES



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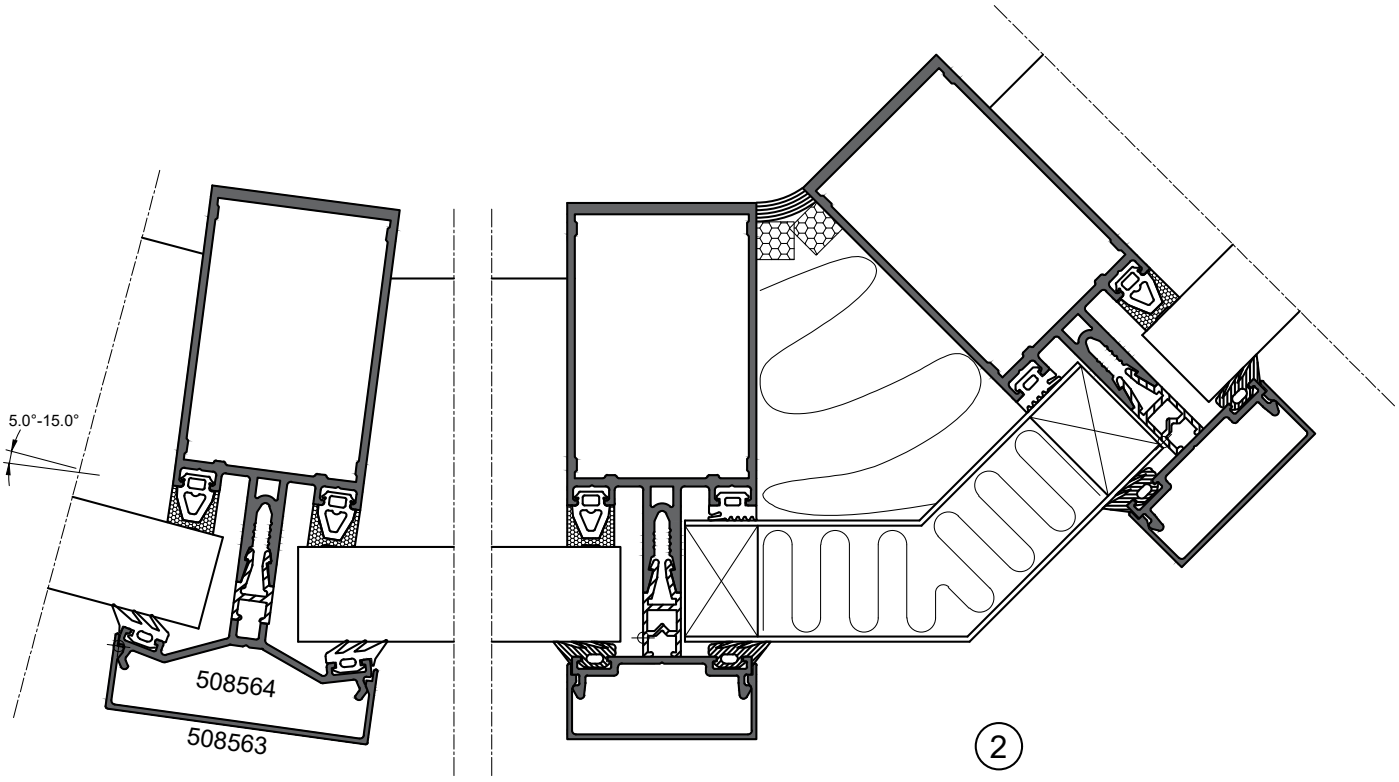
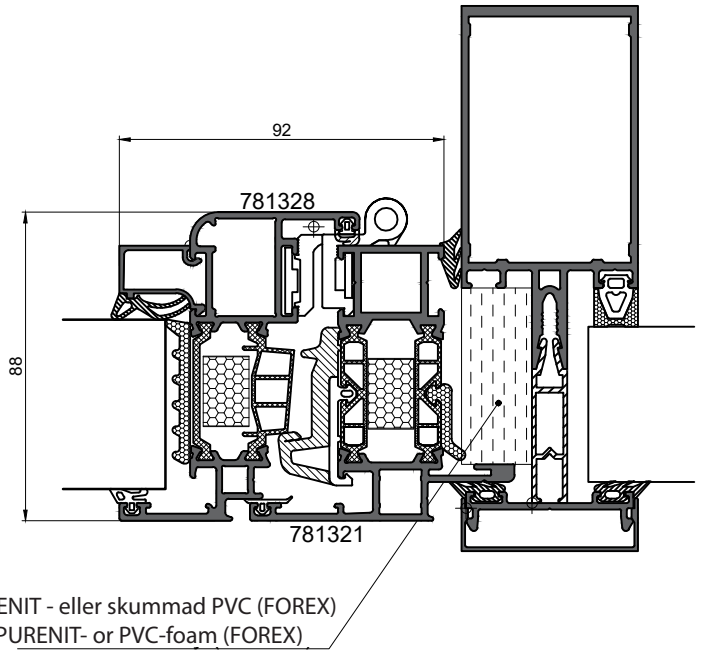


1

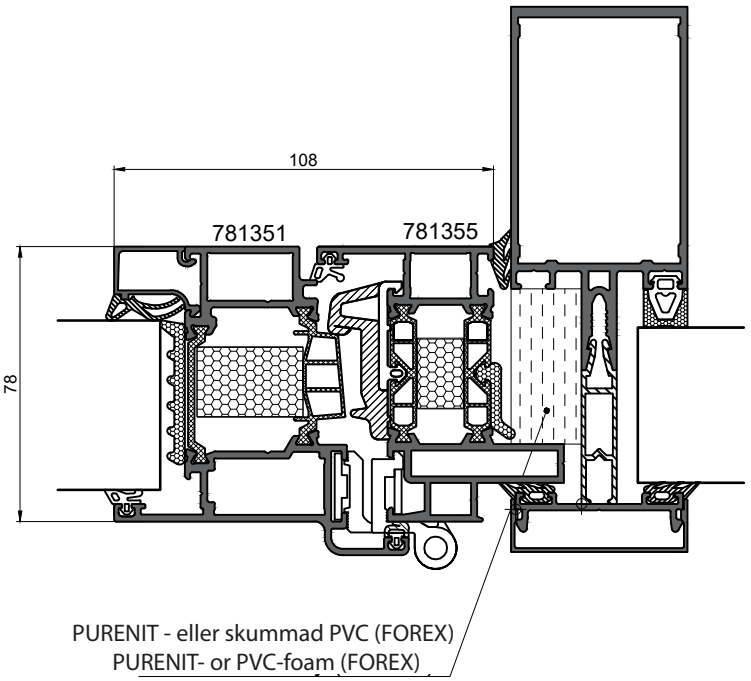
2

INFOGA FÖNSTER I FASAD P50L
JOINING WINDOW TO P50L-SERIE

INFOGA INÅTGÅENDE LK78X FÖNSTER I P50L SERIEN.
JOINING LK78X INWARD OPENING WINDOW TO P50L SERIE

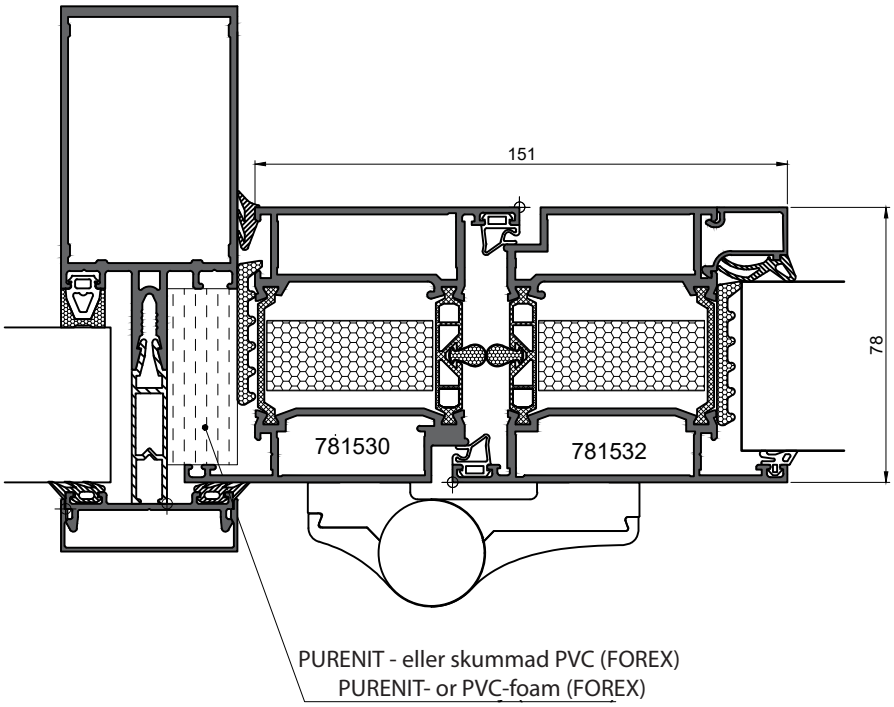


INFOGA UTÅTGÅENDE LK78X FÖNSTER I P50L SERIEN.
JOINING LK78X OUTWARD OPENING WINDOW TO P50L SERIE

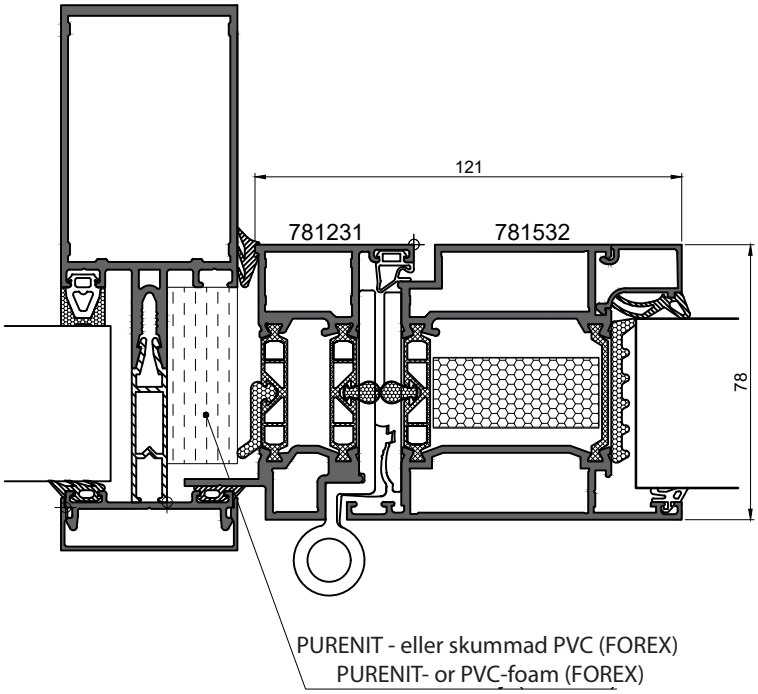


INFOGA DÖRR LK78 I FASAD P50L
JOINING LK78 DOOR TO P50L-SERIE

INFOGA DÖRR LK78X I P50L-SERIEN
JOINING LK78 DOOR TO P50L SERIE

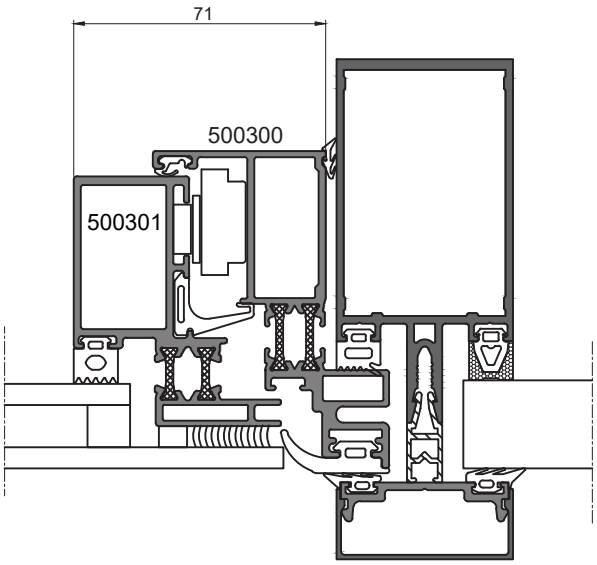


INFOGA DÖRR LK78X I P50L-SERIEN
JOINING LK78 DOOR TO P50L SERIE

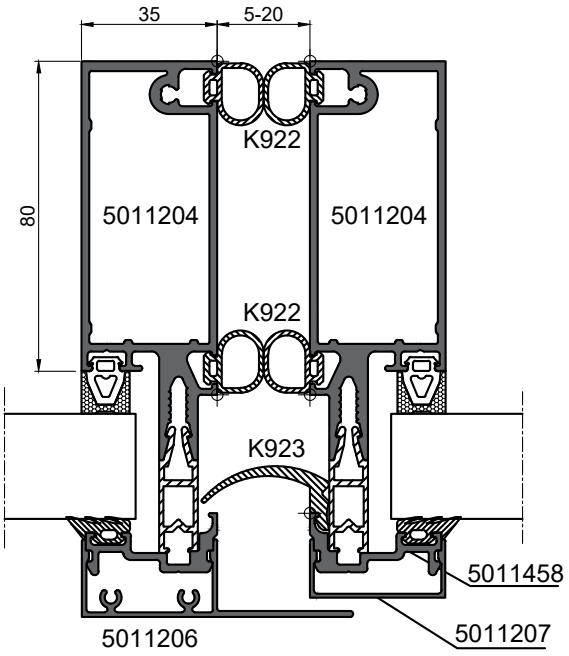


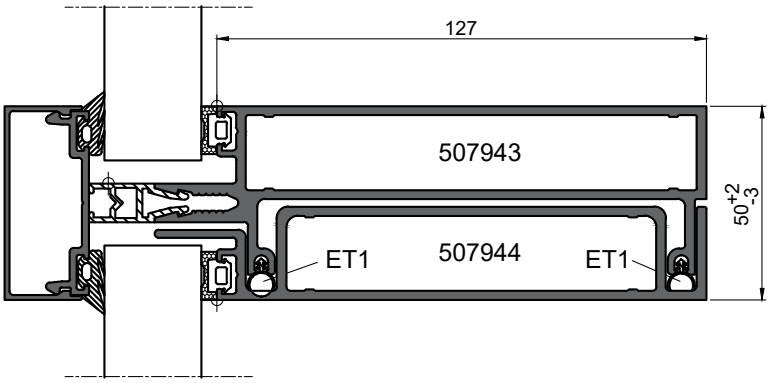
INFOGA FÖNSTER P50S I FASAD P50L
JOINING P50S WINDOW TO P50L-SERIE

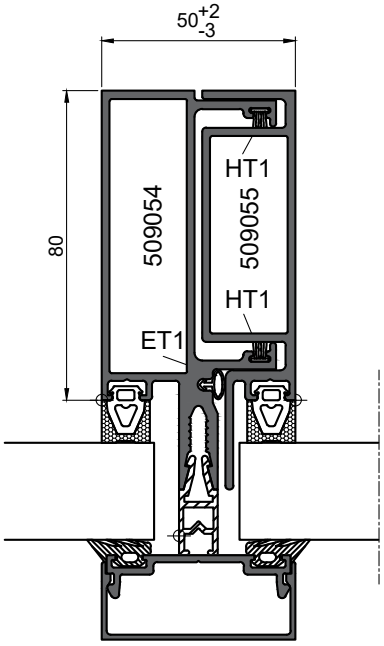
INFOGA FÖNSTER P50S I P50L-SERIEN
JOINING P50S WINDOW TO P50L SERIE



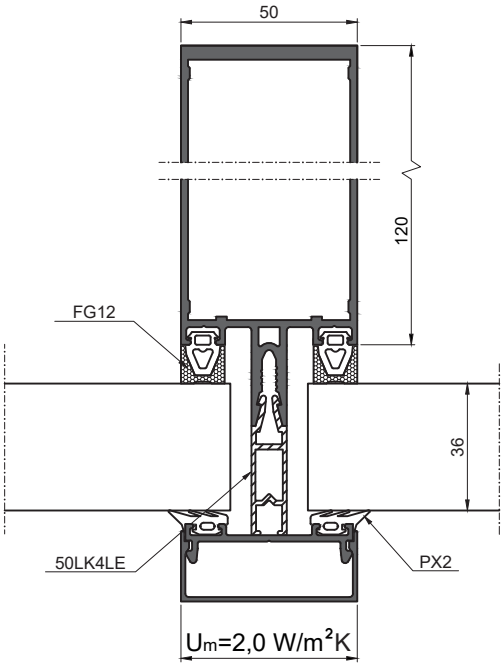
EXEMPEL PÅ EXPANSIONSPROFILER
EXAMPLES OF EXPANSION PROFILES



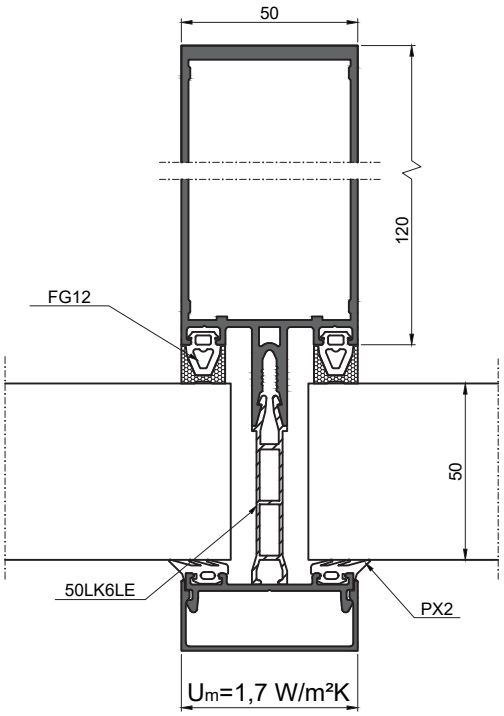




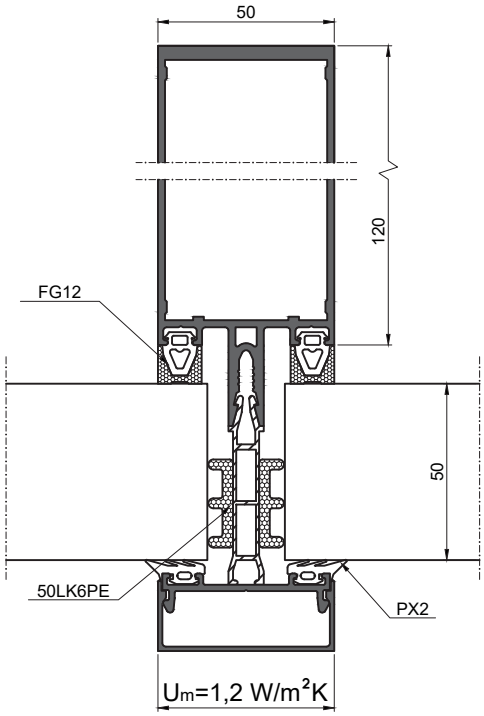
BERÄKNING AV U_m-VÄRDEN
CALCULATIONS OF U_m-VALUES



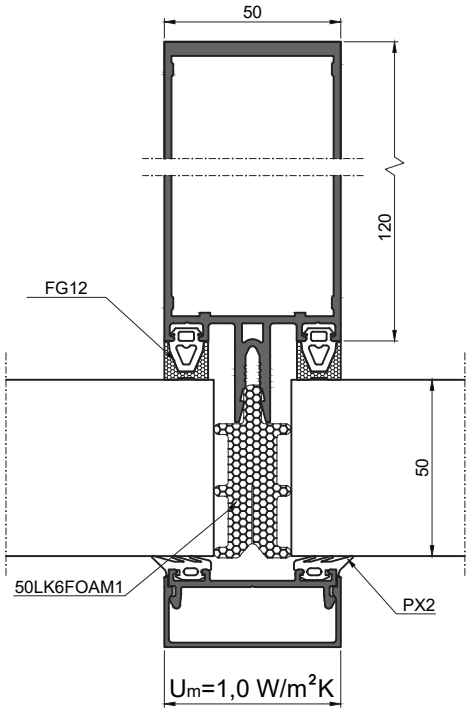
P50L



P50L



P50LP



P50LPE

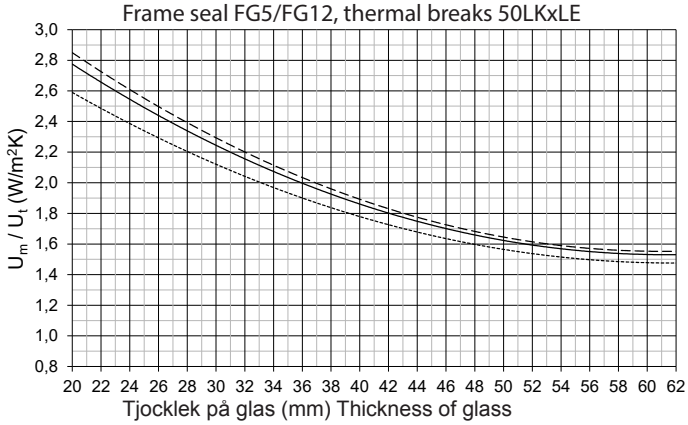
Den termiska transmissionen av profiler, Ut,m, beräknat enligt EN ISO 10077-2:2012 och EN 13947. Skruvarnas inverkan är inkluderad.

The thermal transmittance of the frame, Ut,m , calculated accordance with EN ISO 10077-2:2012 and EN 13947. The screw influence is included.

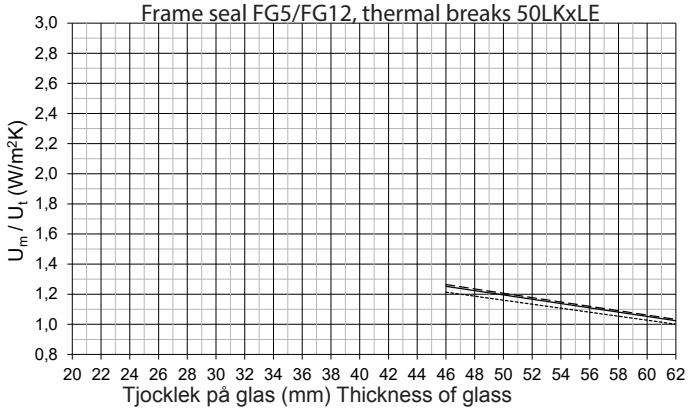
$U_{m,t}$ TRANSMITTANS FÖR POSTER /SPRÖJS
$U_{m,t}$ THERMAL TRANSMITTANCE OF THE MULLION/TRANSOM

Den termiska transmittansen för profiler $U_{t,m}$ beräknat enligt standard EN ISO 10077-2:2012 och EN 13947. Skruvarnas påverkar är medräknad.
The thermal transmittance of the frame, $U_{t,m}$, calculated accordance with EN ISO 10077-2:2012 and EN 13947. The screw influence is included.

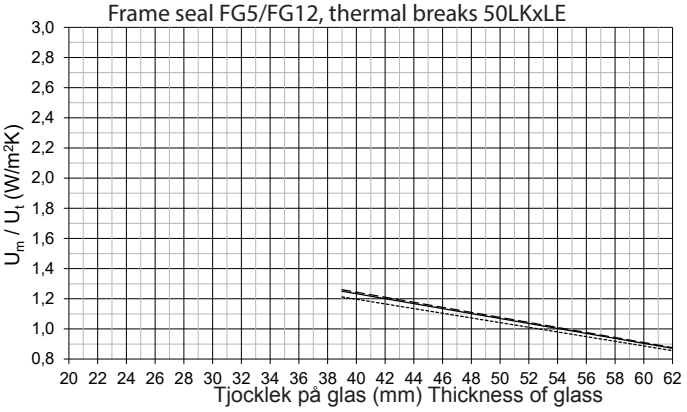
U_m-/U_t-värden för profiler i P50L systemet
U_m-/U_t-values of frames in P50L system
Tätningar FG5/FG12, isolersteg 50LKxLE
Frame seal FG5/FG12, thermal breaks 50LKxLE



U_m-/U_t-värden för profiler i P50LP systemet
U_m-/U_t-values of frames in P50LP system
Tätningar FG5/FG12, isolersteg 50LKxLE
Frame seal FG5/FG12, thermal breaks 50LKxLE



U_m-/U_t-värden för profiler i P50LPE systemet
U_m-/U_t-values of frames in P50LPE system
Tätningar FG5/FG12, isolersteg 50LKxLE
Frame seal FG5/FG12, thermal breaks 50LKxLE



Frame profile
507597 (200mm)/ 5013031 (207mm)
506608 (120mm)/ 507668 (127mm)
506604 (40mm)/ 507822 (47mm)

Linjär thermisk transmittans $\Psi_{m,g}$ ja $\Psi_{t,g}$
The linear thermal transmittance $\Psi_{m,g}$ ja $\Psi_{t,g}$

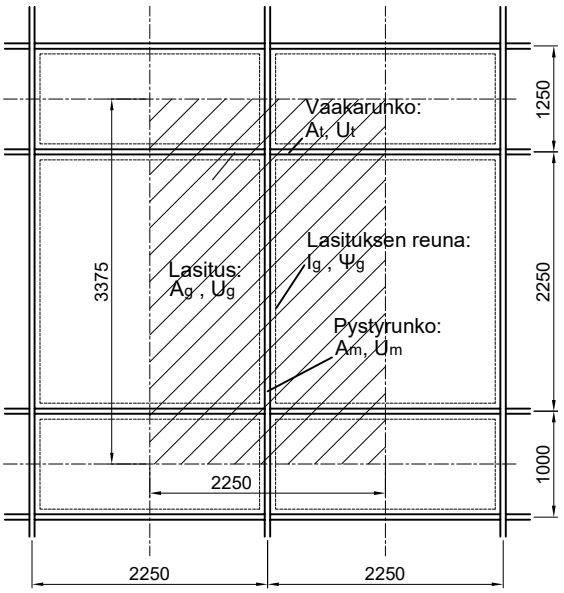
Linjära värden för thermisk transmittans $\Psi_{m,g}$ ja $\Psi_{t,g}$ enligt standard EN 13947.
The linear thermal transmittance values $\Psi_{m,g}$ and $\Psi_{t,g}$ (EN 13947)

Profildjup Depth of the frame	Glaskassett/ IGU			
	Obelagt glas Uncoated		Lågemissionsglas Low emissivity glass	
	Normal spacer Normal spacer	Varm kant Warm edge spacer	Normal spacer Normal spacer	Varm kant Warm edge spacer
≤ 100 mm	0,13	0,09	0,17	0,11
≤ 200 mm	0,15	0,10	0,19	0,12

Värden för Ψm,g and Ψt,g definieras enligt standard EN ISO 10077-2:2012 för Purso P50L, P50LP och P50LPE systemen.
Values for Ψm,g and Ψt,g defined according to standard EN ISO 10077-2:2012 for Purso P50L, P50LP and P50LPE systems.

Spacer Spacer	2-glas (20..36mm) Double glazing	3-glas (36..52mm) Triple glazing
Aluminium t=0,3mm	0,13	0,13
SS/RF t=0,18mm	0,092	0,083
TPS	0,065	0,053

GENOMSNITTLIG THERMISK TRANSMITTANS FÖR FASAD U_{cw}
AVERAGE THERMAL TRANSMITTANCE FOR FACADE U_{cw}
RÄKNEEXEMPEL / CALCULATION EXAMPEL 1.



Den genomsnittliga thermiska tranmittansen för fasaden är beräknad enligt standarden EN 13947. Thermisk tranmittans beräknas genom glasets och profilens yta där man lagt till en parameter gällande linjär ledande effekt.

The average thermal transmittance for the facade Ucw calculated according to the standard EN 13947.
Thermal transmittances for the glazing and frame are emphasised by their surface areas, and a linear additional conductance effect has been added.

$$U_{cw} = \frac{A_g U_g + A_m U_m + A_t U_t + l_g \psi_g}{A_{cw}}$$

1. Profiler / Frame system P50L

Glas: Trippel / triple, tjocklek / thickness: 48mm

Thermisk transmittans / thermal transmittance: U_g: **0.70** W/(m²K)

			Aluminium spacer			TPS spacer		
Horisontell / horizontal	A_t	0,22 m²	U_t	1,7 W/(m²K)	0,37 W/K	U_t	1,7 W/(m²K)	0,37 W/K
Vertikal / vertical	A_m	0,17 m²	U_m	1,7 W/(m²K)	0,29 W/K	U_m	1,7 W/(m²K)	0,29 W/K
Glasning / glazing	A_g	7,20 m²	U_g	0,7 W/(m²K)	5,04 W/K	U_g	0,7W/(m²K)	5,04 W/K
Övriga parametrar glasning Additional conductance of glazing	l_g	15,4 m	ψ_g	0,13 W/(mK)	2,00 W/K	ψ_g	0,053 W/(m²K)	0,82 W/K
Total	∑A	7,59 m²		∑	7,70 W/K		∑	6,52 W/K
			U_{cw}: 7,70/ 7,59 = 1,01 W/(m²K)			U_{cw}: 6,52 / 7,59 = 0,86 W/(m²K)		
				U_{cw} = 1,01W/(m²K)			**U_{cw} = 0,86 W/(m²K)**	

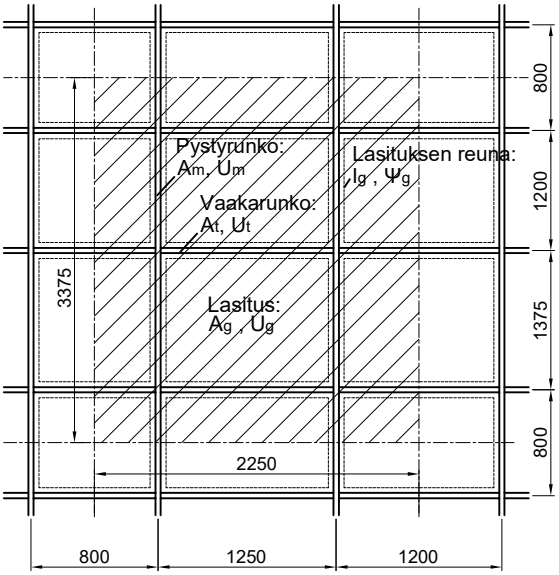
2. Profiler / Frame system P50LP

Glas: Trippel / triple, tjocklek / thickness: 48mm

Thermisk transmittans / thermal transmittance: U_g **0.50** W/(m²K)

			Aluminium spacer			TPS spacer		
Horisontell / horizontal	A_t	0,22 m²	U_t	1,2 W/(m²K)	0,26 W/K	U_t	1,2 W/(m²K)	0,26 W/K
Vertikal / vertical	A_m	0,17 m²	U_m	1,2 W/(m²K)	0,20 W/K	U_m	1,2 W/(m²K)	0,20 W/K
Glasning / glazing	A_g	7,20 m²	U_g	0,5 W/(m²K)	3,60 W/K	U_g	0,5W/(m²K)	3,60 W/K
Övriga parametrar glasning Additional conductance of glazing	l_g	15,4 m	ψ_g	0,13 W/(mK)	2,00 W/K	ψ_g	0,053 W/(m²K)	0,82 W/K
Total	∑A	7,59 m²		∑	6,06 W/K		∑	4,88 W/K
			U_{cw}: 6,06 / 7,59 = 0,80 W/(m²K)			U_{cw}: 4,88 / 7,59 = 0,64 W/(m²K)		
				U_{cw} = 0,80 W/(m²K)			**U_{cw} = 0,64 W/(m²K)**	

GENOMSNITTLIG THERMISK TRANSMITTANS FÖR FASAD U_{cw}
AVERAGE THERMAL TRANSMITTANCE FOR FACADE U_{cw}
RÄKNEEXEMPEL / CALCULATION EXAMPEL 2.



Den genomsnittliga thermiska tranmittansen för fasaden är beräknad enligt standarden EN 13947. Thermisk tranmittans beräknas genom glasets och profilens yta där man lagt till en parameter gällande linjär ledande effekt.

The average thermal transmittance for the facade Ucw calculated according to the standard EN 13947.
Thermal transmittances for the glazing and frame are emphasised by their surface areas, and a linear additional conductance effect has been added.

$$U_{cw} = \frac{A_g U_g + A_m U_m + A_t U_t + l_g \psi_g}{A_{cw}}$$

1. Profiler / Frame system P50L

Glas: Trippel / triple, tjocklek / thickness: 48mm

Thermisk transmittans / thermal transmittance: U_g: **0.70** W/(m²K)

			Aluminium spacer			TPS spacer		
Horisontell / horizontal	A_t	0,32 m²	U_t	1,7 W/(m²K)	0,54 W/K	U_t	1,7 W/(m²K)	0,54 W/K
Vertikal / vertical	A_m	0,34 m²	U_m	1,7 W/(m²K)	0,58 W/K	U_m	1,7 W/(m²K)	0,58 W/K
Glasning / glazing	A_g	6,93 m²	U_g	0,7 W/(m²K)	4,84 W/K	U_g	0,7 W/(m²K)	4,84 W/K
Övriga parametrar glasning Additional conductance of glazing	l_g	25,8 m	ψ_g	0,13 W/(mK)	3,35 W/K	ψ_g	0,053 W/(m²K)	1,37 W/K
Total	∑A	7,59 m²		∑	9,31 W/K		∑	7,133 W/K
			U_{cw}: 9,31 / 7,59 = 1,23 W/(m²K)			U_{cw}: 7,33 / 7,59 = 0,97 W/(m²K)		
					U_{cw} = 1,23 W/(m²K)			**U_{cw} = 0,97 W/(m²K)**

2. Profiler / Frame system P50LP

Glas: Trippel / triple, tjocklek / thickness: 48mm

Thermisk transmittans / thermal transmittance: U_g **0.50** W/(m²K)

			Aluminium spacer			TPS spacer		
Horisontell / horizontal	A_t	0,32 m²	U_t	1,2 W/(m²K)	0,38 W/K	U_t	1,2W/(m²K)	0,38 W/K
Vertikal / vertical	A_m	0,34 m²	U_m	1,2 W/(m²K)	0,41 W/K	U_m	1,2 W/(m²K)	0,41 W/K
Glasning / glazing	A_g	6,93 m²	U_g	0,5 W/(m²K)	3,47 W/K	U_g	0,5 W/(m²K)	3,47 W/K
Övriga parametrar glasning Additional conductance of glazing	l_g	25,8 m	ψ_g	0,13 W/(mK)	3,35 W/K	ψ_g	0,053 W/(m²K)	1,37 W/K
Total	∑A	7,59 m²		∑	7,61 W/K		∑	5,63 W/K
			U_{cw}: 7,61 / 7,59 = 1,00 W/(m²K)			U_{cw}: 5,63 / 7,59 = 0,74 W/(m²K)		
					U_{cw} = 1,00 W/(m²K)			**U_{cw} = 0,74 W/(m²K)**

EGENSKAPER/ KLASSIFICERING ENLIGT EN 13830
PROPERTIES/ CLASSIFICATION ACCORDANCE TO EN 13830

Egenskaper **Properties**	**P50L** Fasad/ Facade systems		
Brandklass (E / EI) **Fire resistance (E / EI)** **(EN 13501-2)**	**o↔i EI60** [1)]		
Vattentäthet **Watertightness** **(EN 12154)**	**RE1050**		
Motstånd mot egenvikt **Resistance to its own dead loads**	Enligt projektets dokumentation Declared value according to project		
Vindlaster tålighet **Wind load resistance** **(EN 12179)**	Deklarerat projektvärde (≤ 2 kN/m²) Declared value according to project (≤ 2 kN/m²)		
Ljudisolering luftburet ljud [3)] **Direct airborne sound insulation** [3)] **(EN ISO 717-1)**	**R_w** 42dB [4)]	**R_w+C** 40dB [4)]	**R_w+C_{tr}** 37dB [4)]
Thermisk transmittans (U_{CW}) [3)] **Thermal transmittance (U_{CW})** [3)] **(EN 13947)**	Deklarerat projektvärde (W/m²K) Declared value according to project (W/m²K)		
Permeabilitet luft **Air permeability** **(EN 12152)**	**AE1050**		

NOTERA! Värden i tabellen avser testade element.
[1)] Brandklass P50L EI30/EI60
[3)] Projektvärden presenteras separat
[4)] Glas / fyllning, se produktpass för P50L

NOTE! Values in the table apply for tested elements
[1)] Fire resistans facade system P50L EI30/EI60
[3)] Values according to project are declared separately
[4)] Glass/ Infill panel, see P50L-Product pass

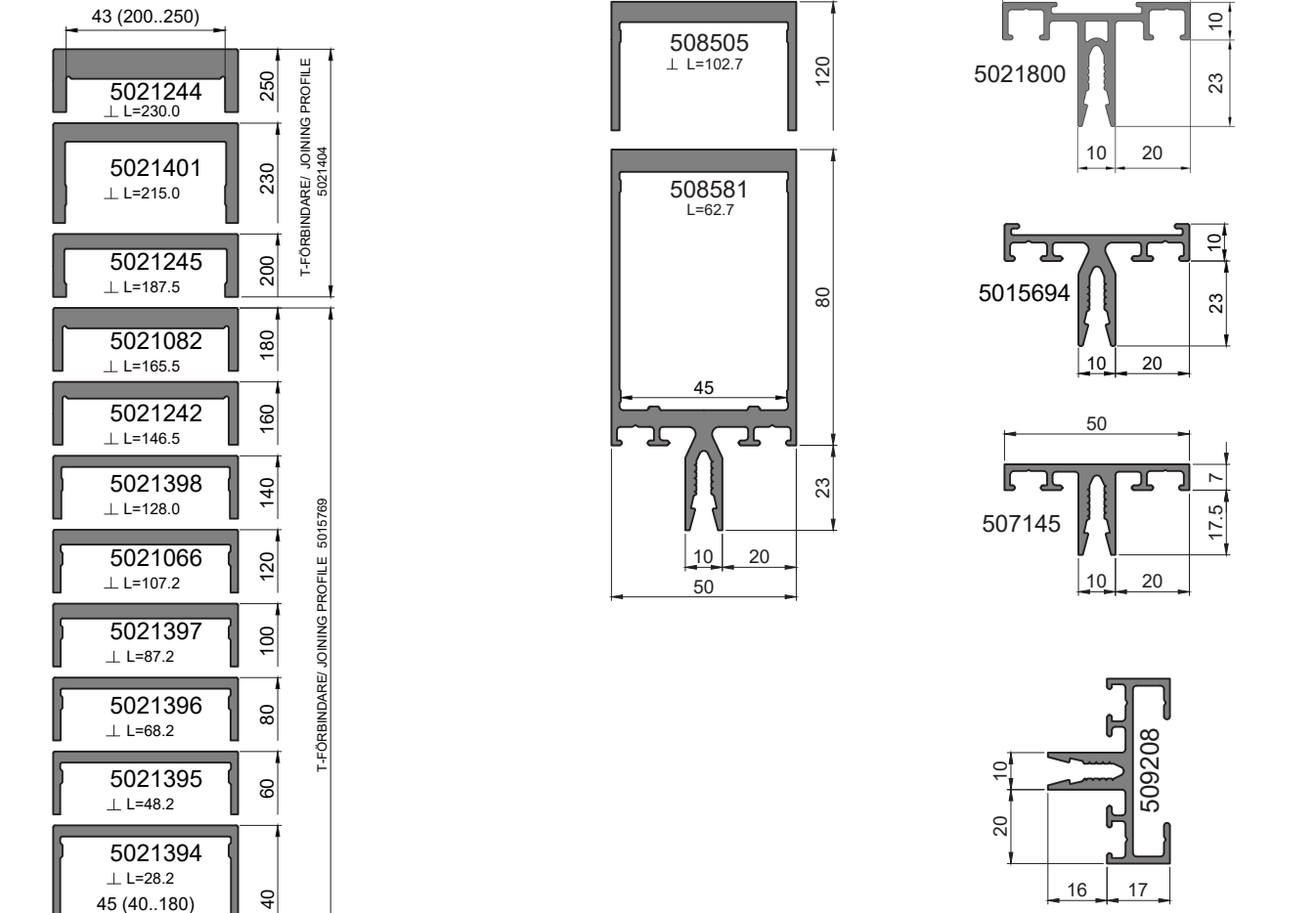
EGENSKAPER/ KLASSIFICERING ENLIGT EN 1627
PROPERTIES/ CLASSIFICATION ACCORDANCE TO EN 1627

Egenskaper **Properties**	**P50L RC2/RC3** Facade systems
Säkerhetsklass **Burglar resistance** **(EN 1627)**	**RC2, RC3** [1)]

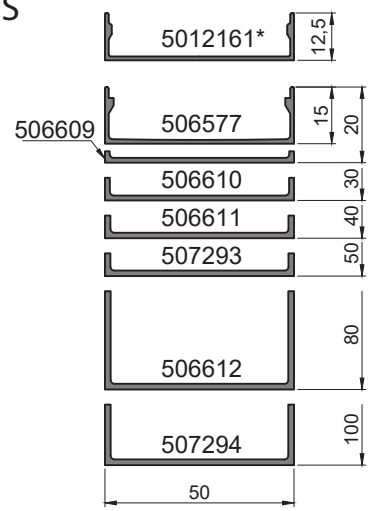
NOTERA!Värden i tabellen avser testade element.
[1)] Säkerhetsklass fasadsystem P50L RC2/RC3

NOTE! Values in the table apply for tested elements
[1)] Burglar resistance facade systems P50L RC2/ RC3

STOMPROFILER
FRAME PROFILES



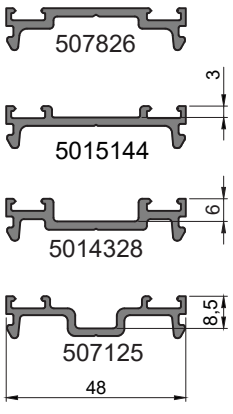
TÄCKLOCK
COVER STRIPS



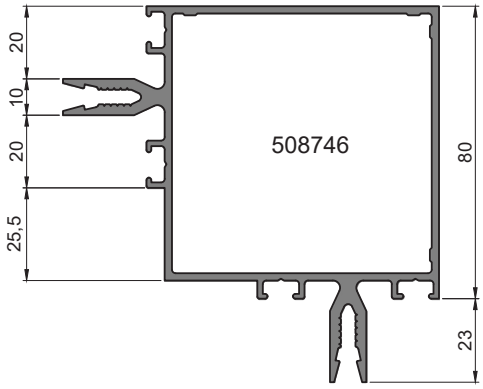
* Täcklock 5012161 är ej kompatibel med glaslister 507125 och 506578.

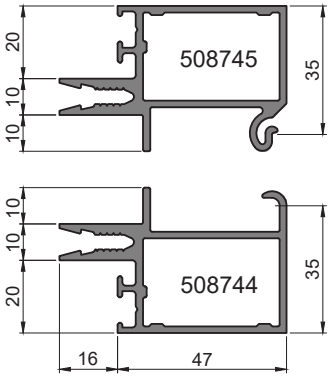
* Glazing capping 5012161 is not compatible with glazing beads 507125 and 506578.

GLASLISTER
GLAZING BEADS

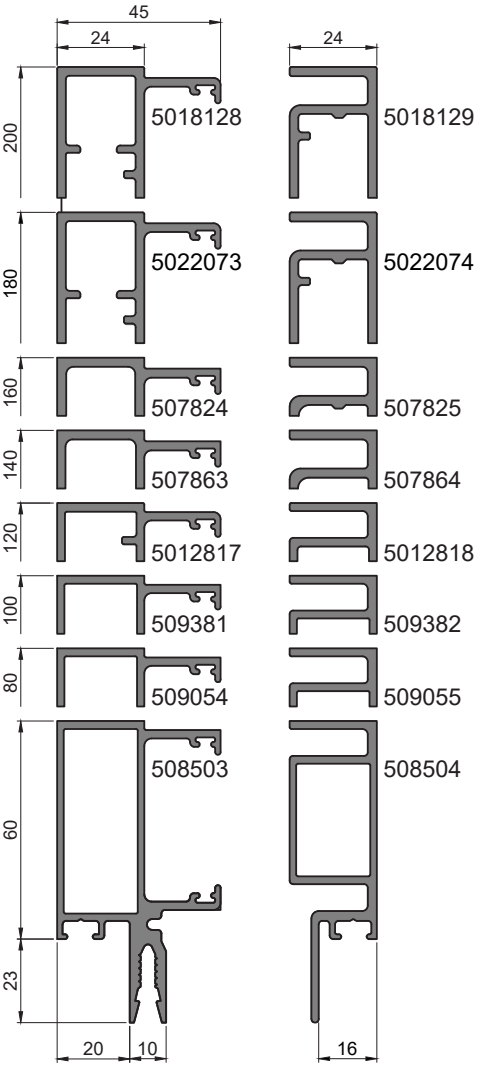


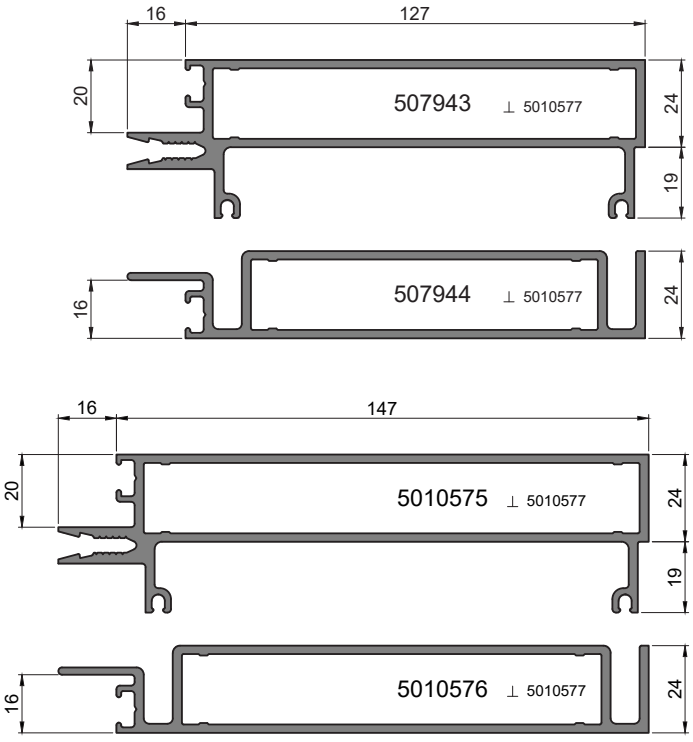
STOMPROFILER
FRAME PROFILES



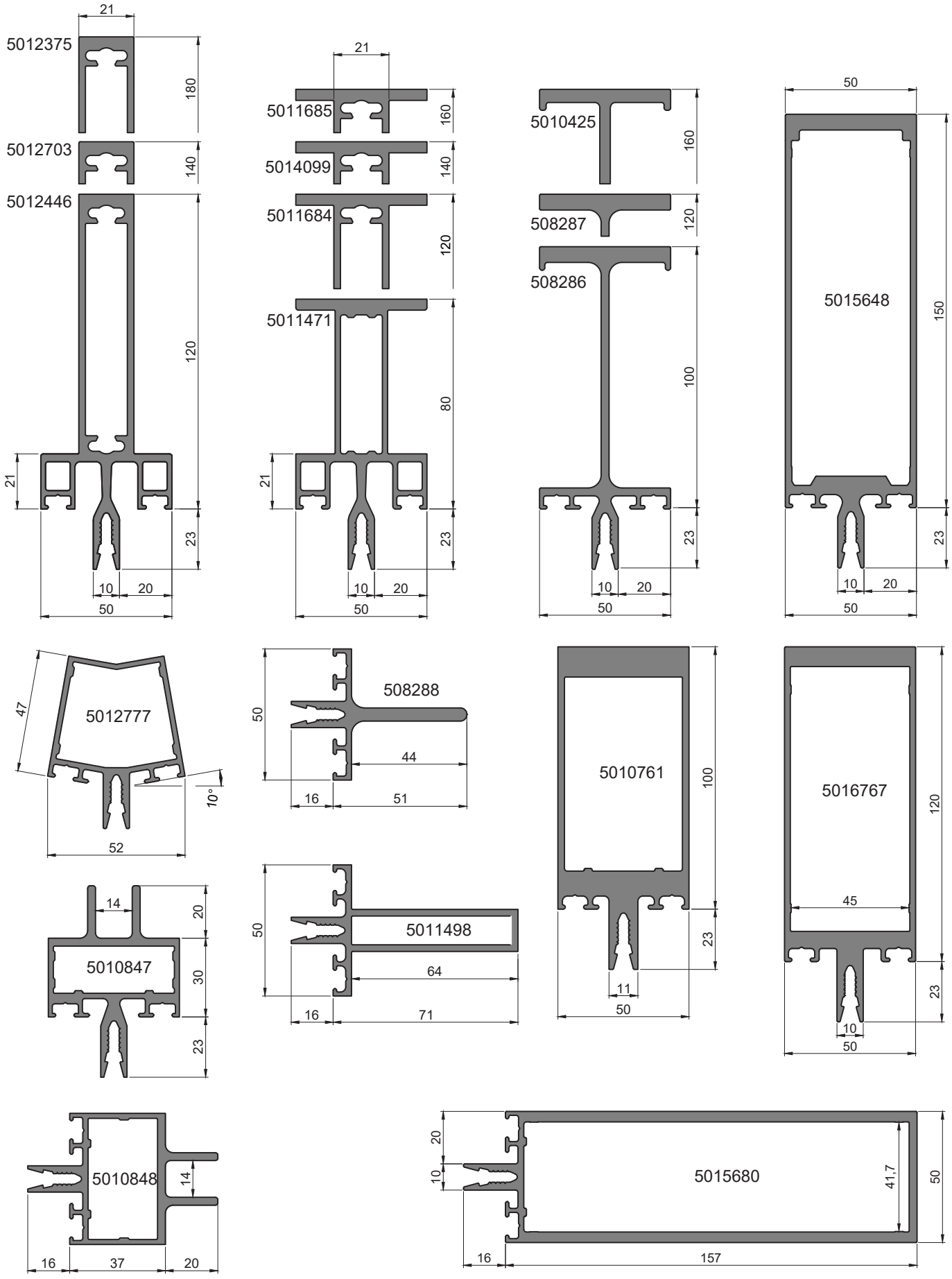


EXPANSIONSPROFILER
EXPANSION PROFILES

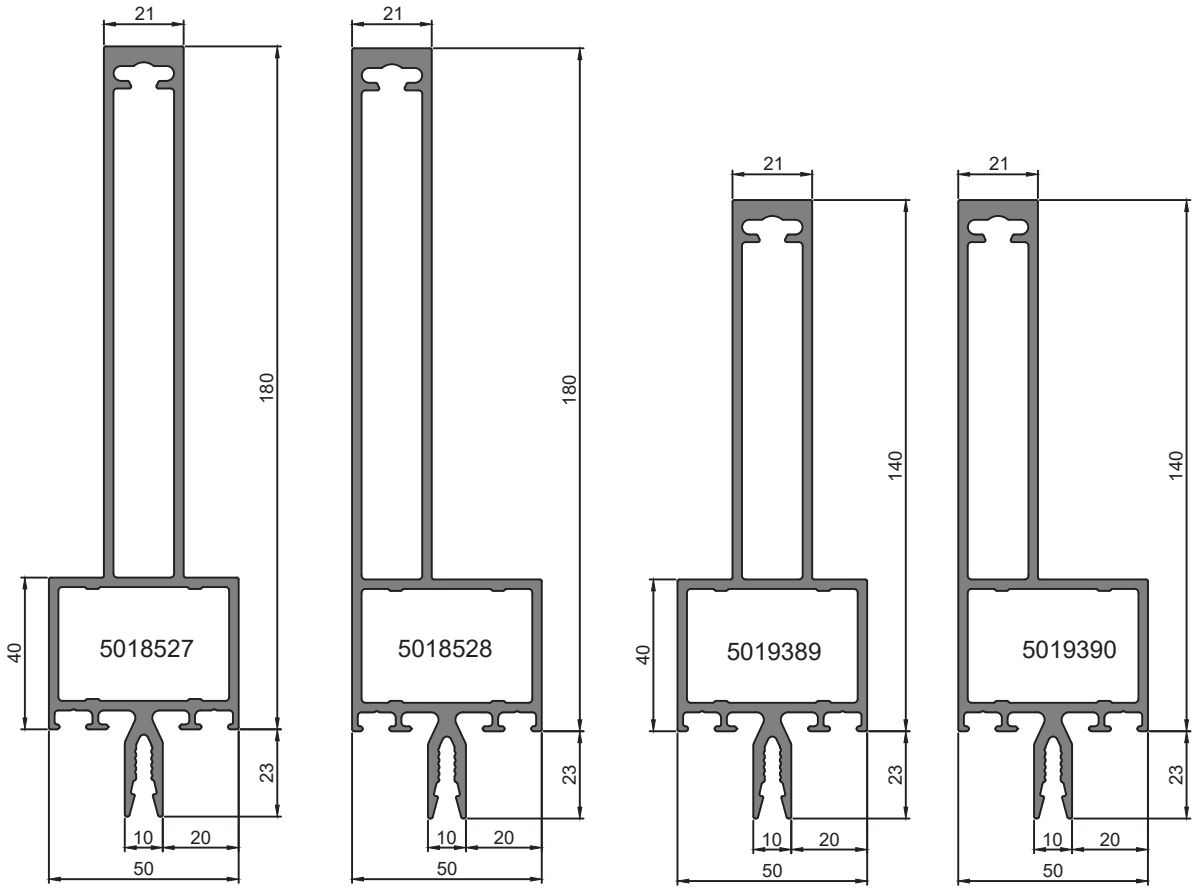




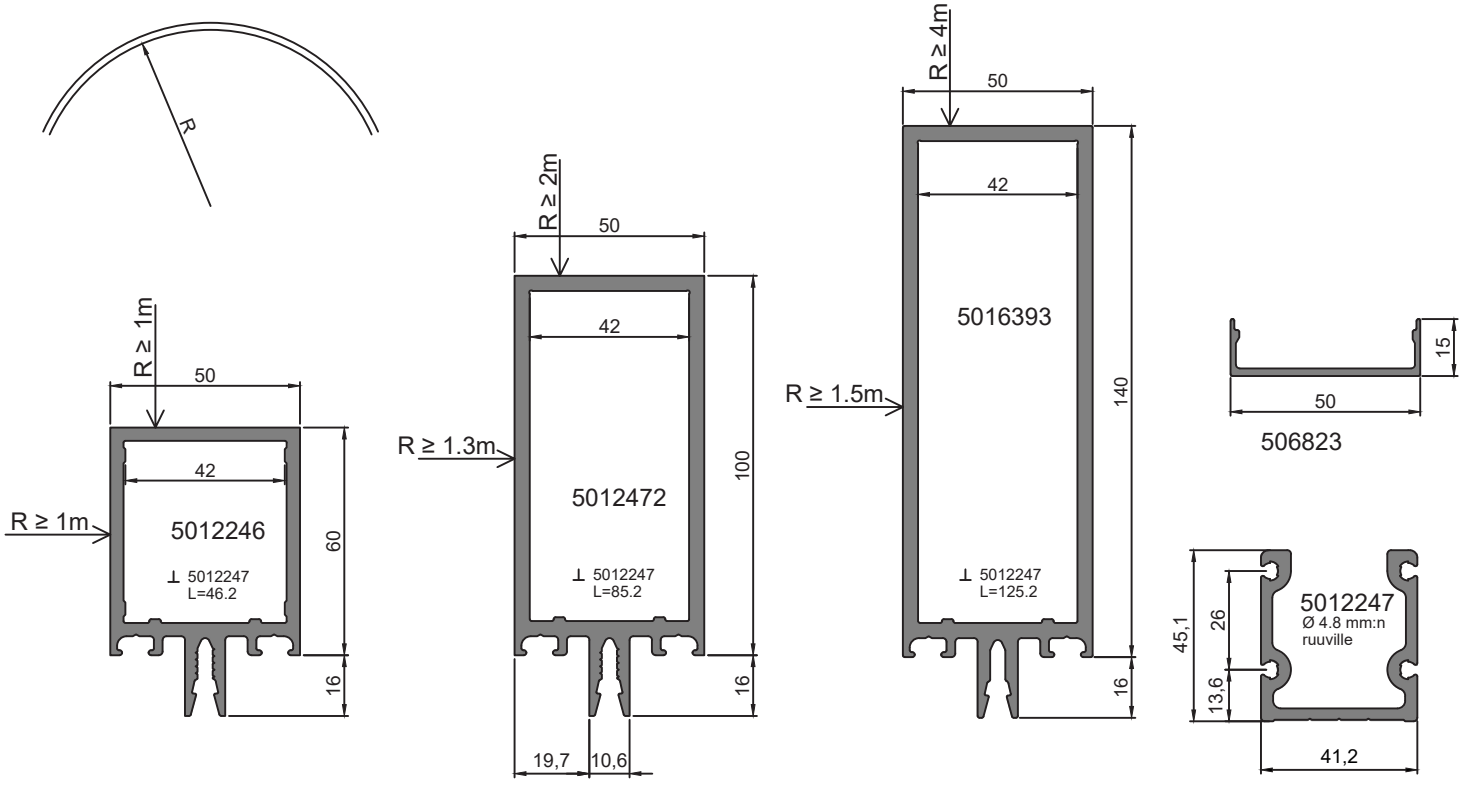
SPECIALPROFILER
SPECIAL FRAME PROFILES



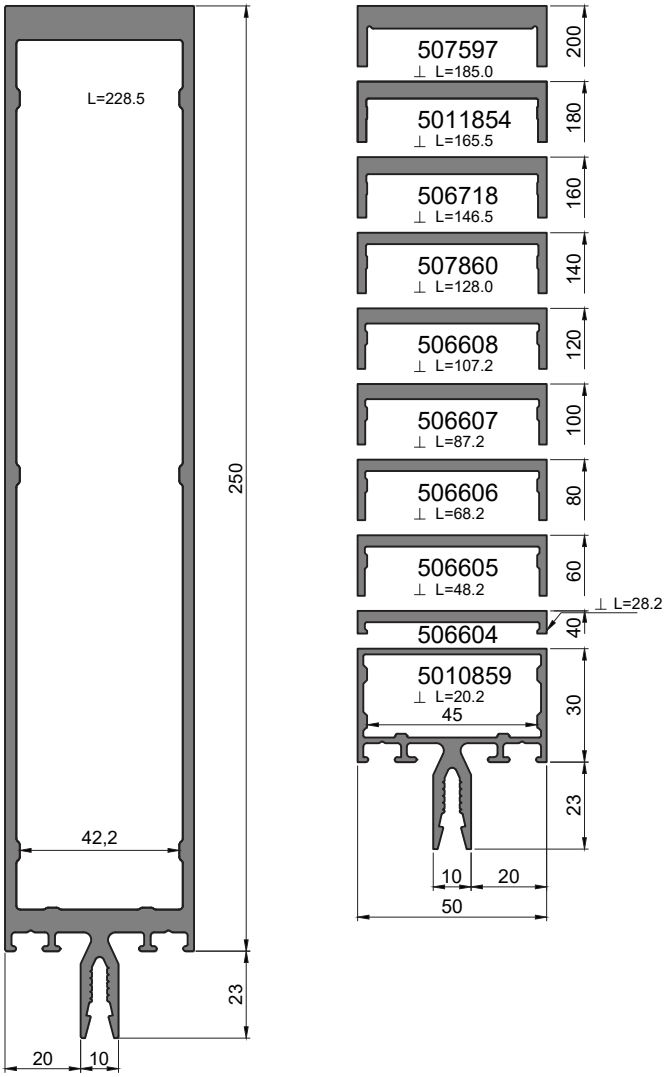
SPECIALPROFILER
SPECIAL FRAME PROFILES

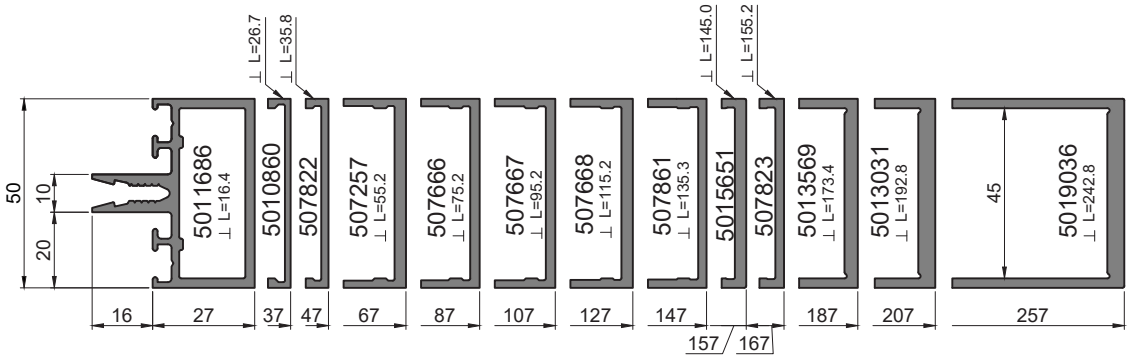


BÖJBARA PROFILER
BEND PROFILES

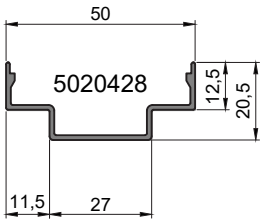


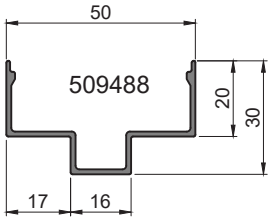
SPECIALPROFILER
SPECIAL FRAME PROFILES

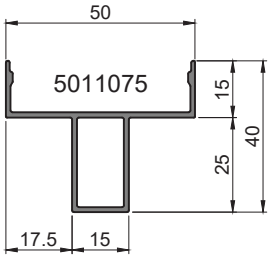


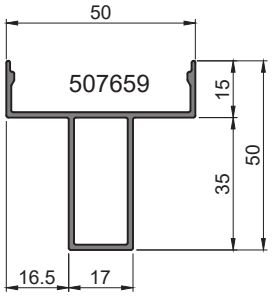


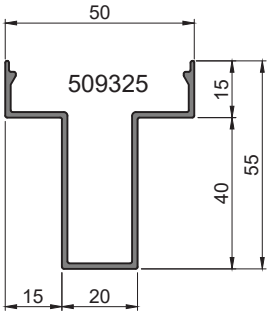
SPECIALTÄCKLOCK
SPECIAL COVER STRIPS

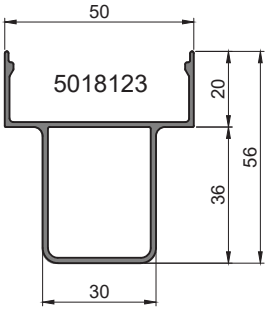


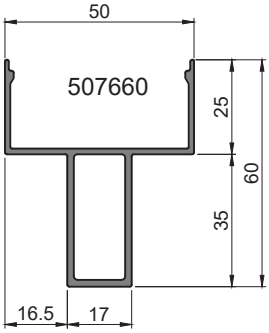


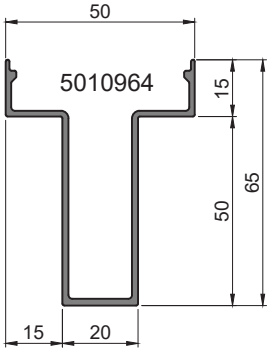


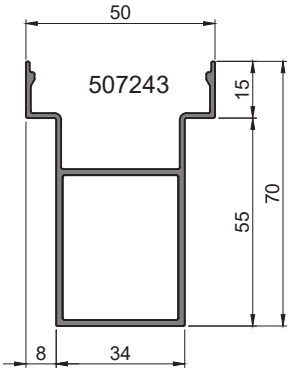


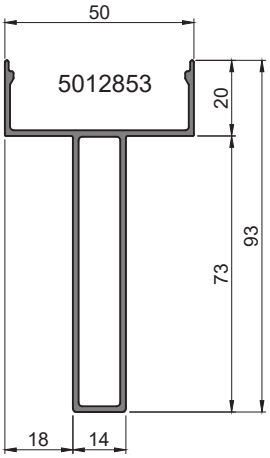


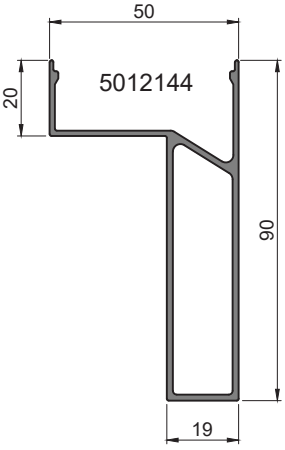


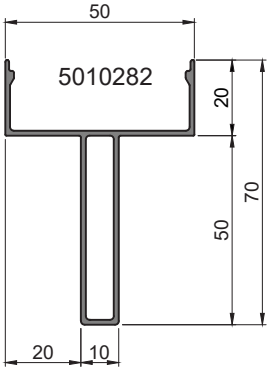


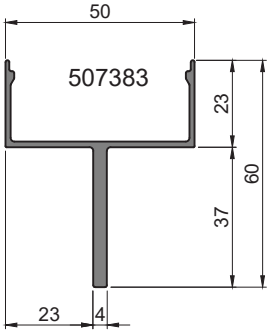


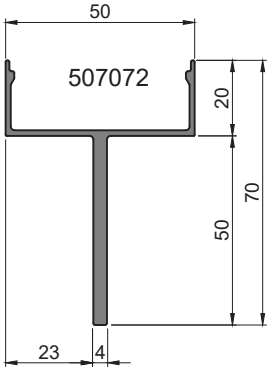




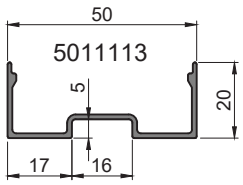


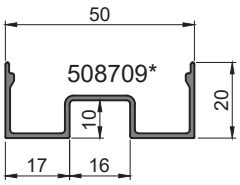


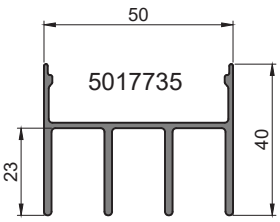


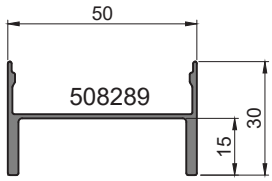


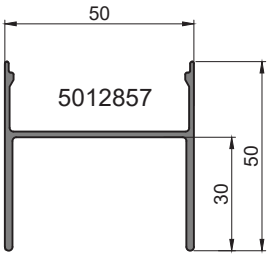
SPECIALTÄCKLOCK
SPECIAL COVER STRIPS

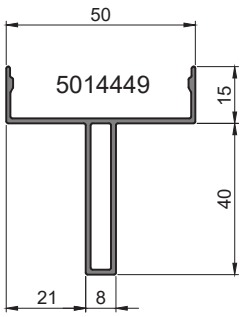


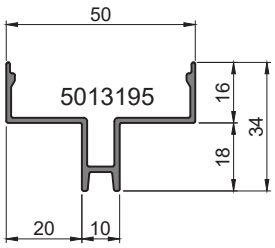


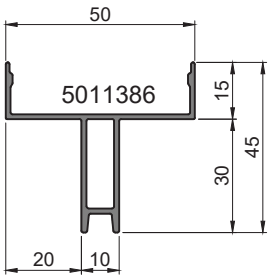


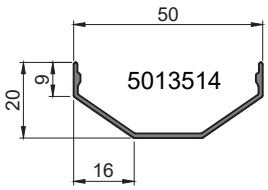


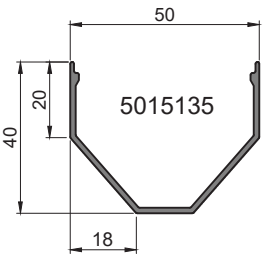


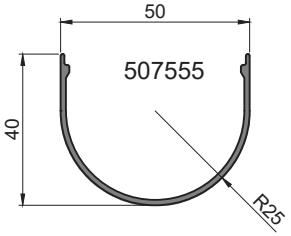


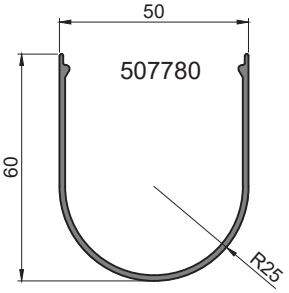


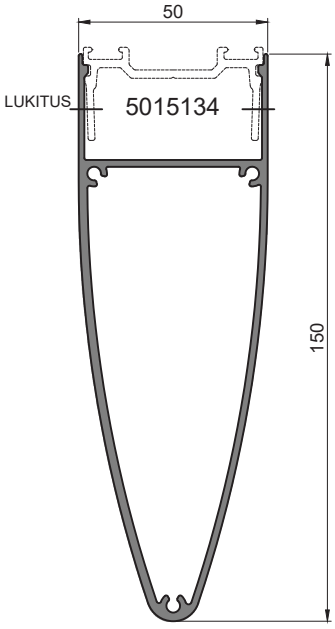


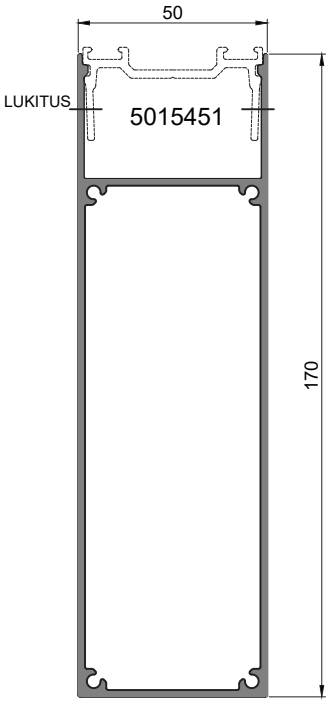


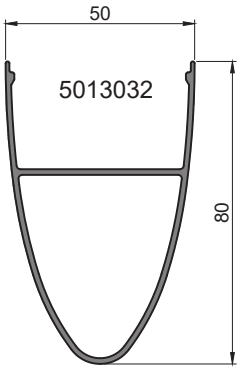


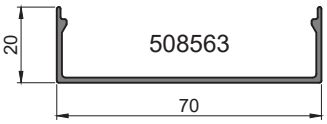


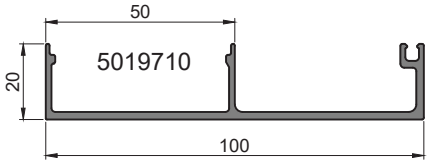


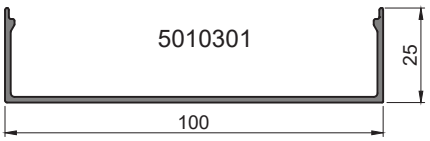








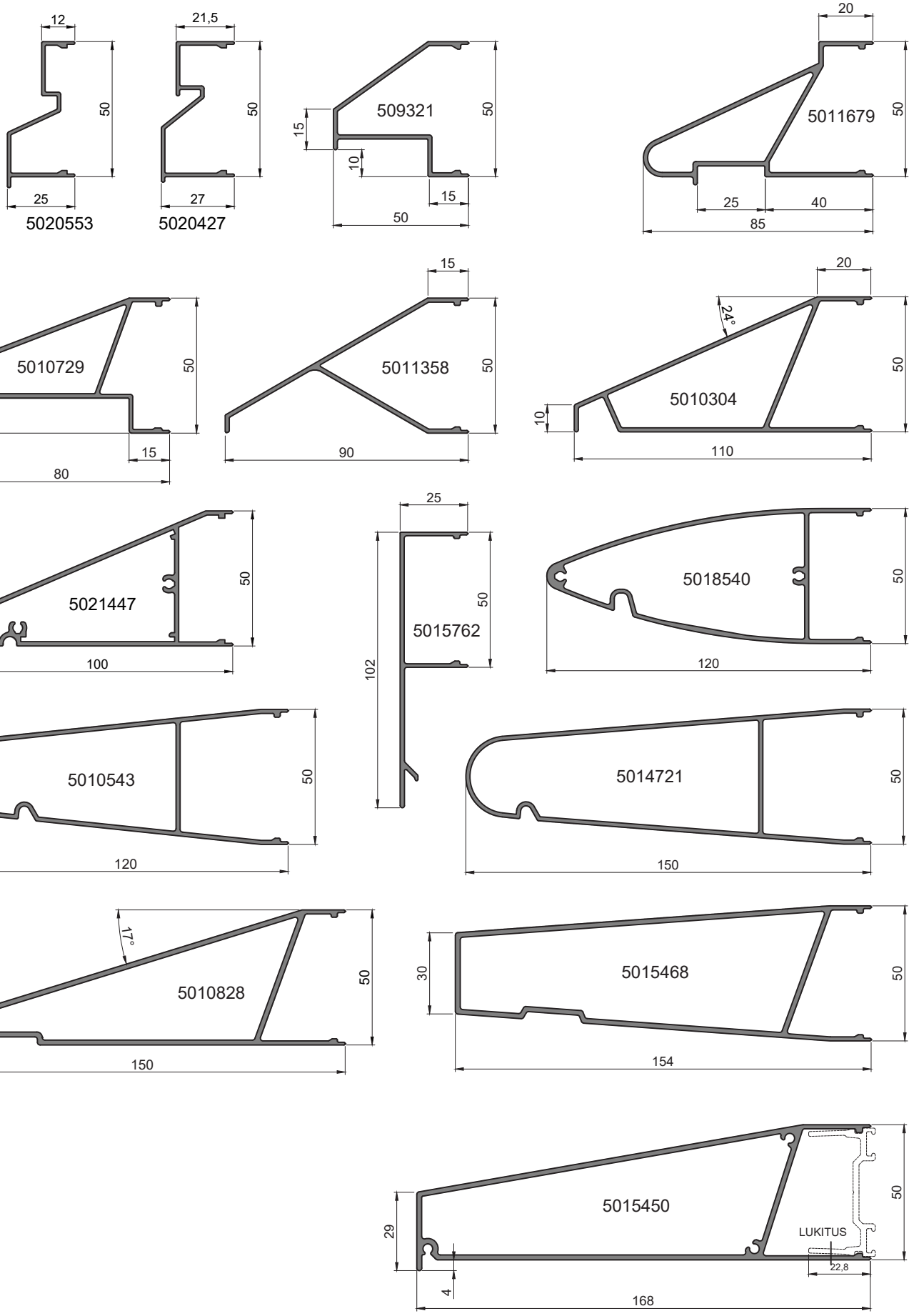




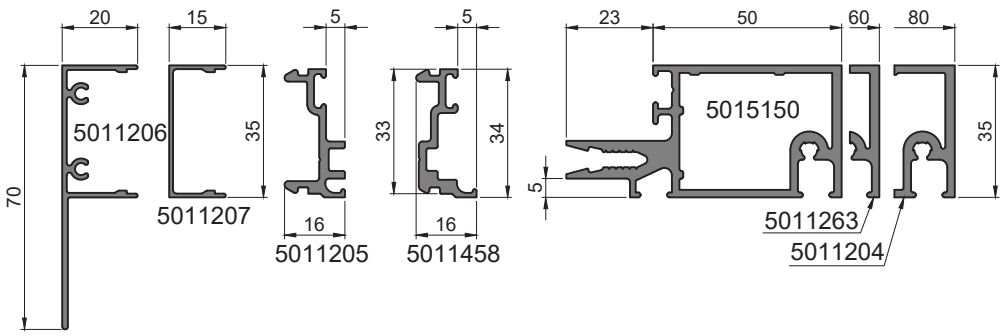
* Täcklock 508709 och 5012521 är ej kompatibla med glaslister 507125, 506578 och 5014328.

* Glazing cappings 508709 and 5012521 are not compatible with glazing beads 507125, 506578 and 5014328.

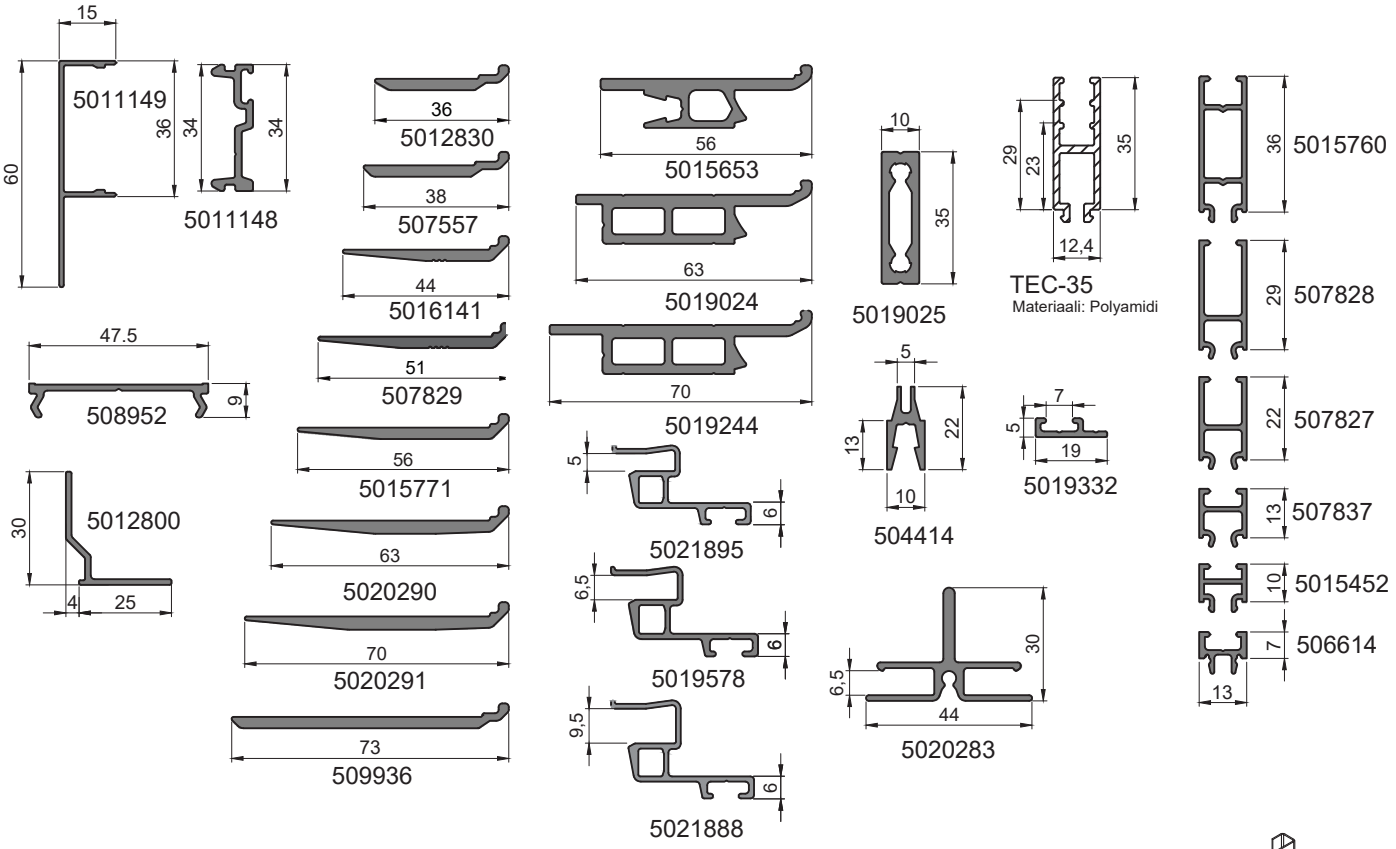
SPECIALTÄCKLOCK
SPECIAL COVER STRIPS

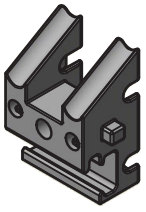


EXPANSIONSPROFILER
EXPANSIONPROFILES

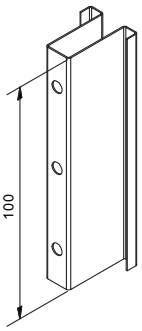


TILLBEHÖR
ACCESSORIES



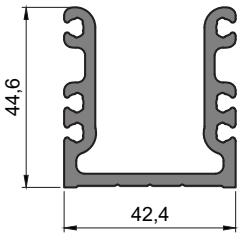


P50LTK10



P50LK2086

FÖRBINDARE
JOINING PROFILES



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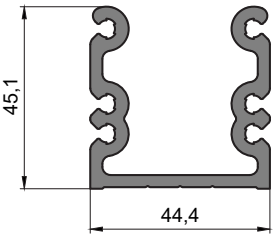
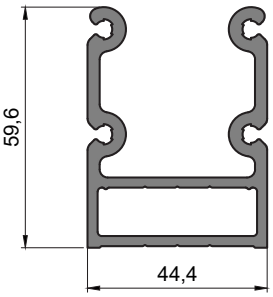


5015769



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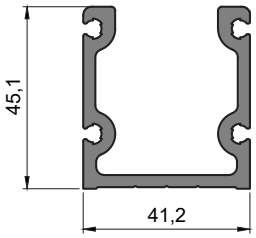

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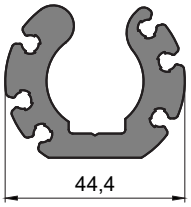

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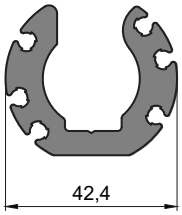

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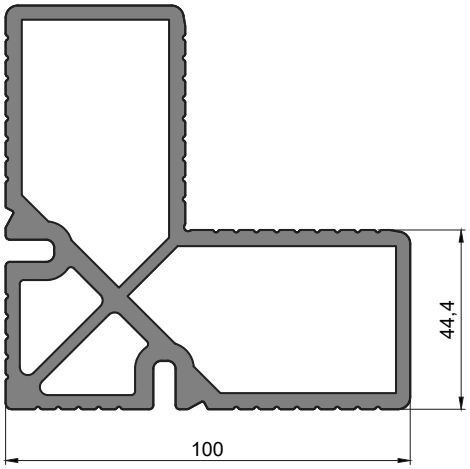

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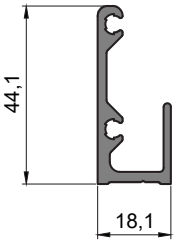

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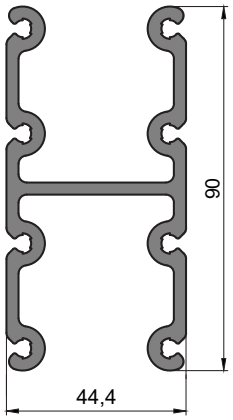

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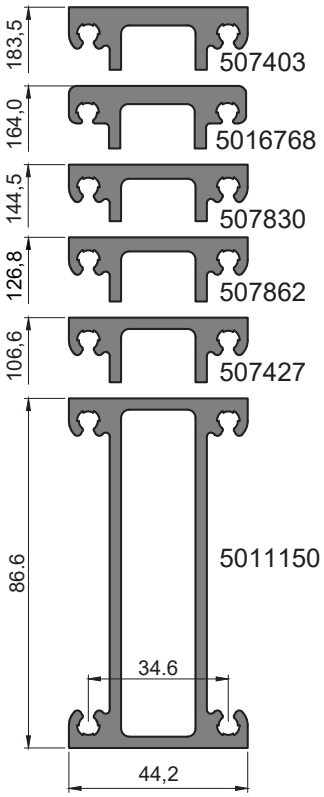

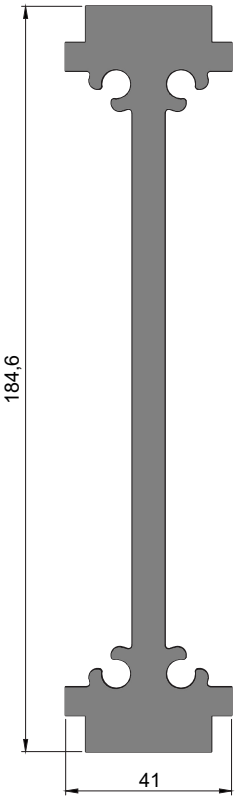

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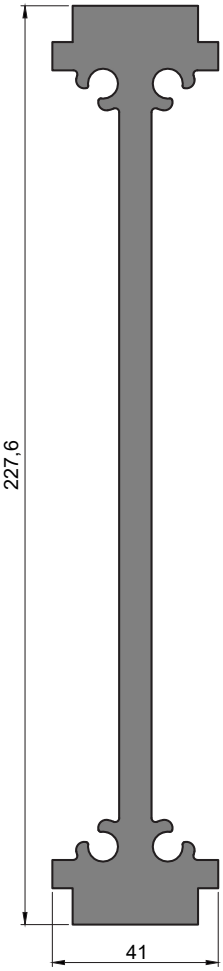
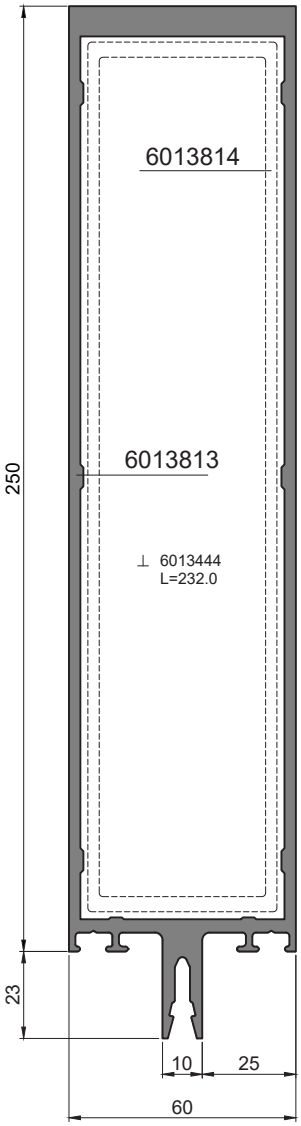
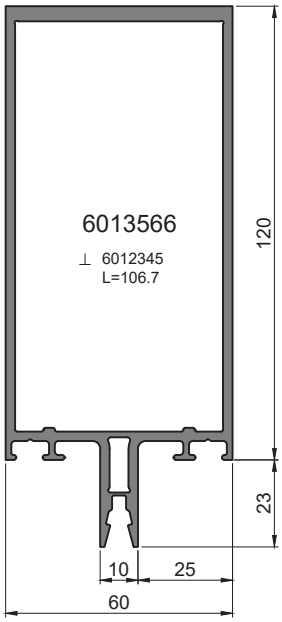
5021402

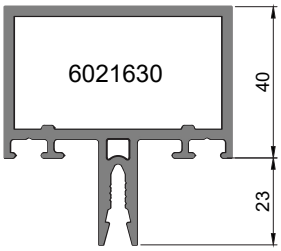


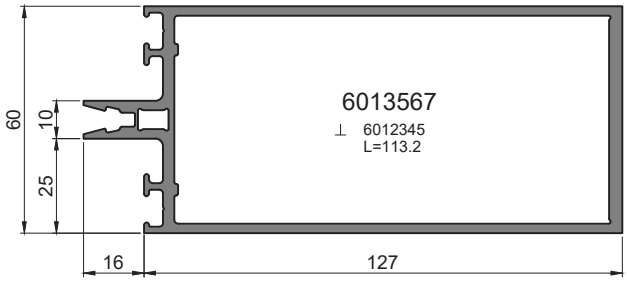
5021520

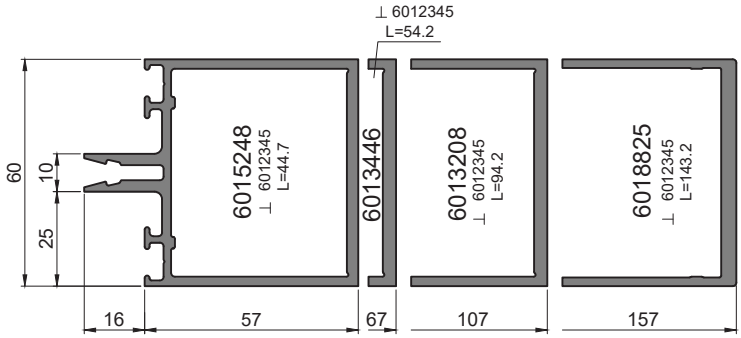
PROFILER
FRAME PROFILES

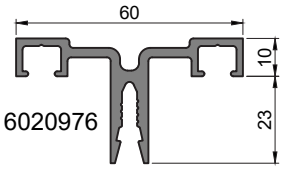


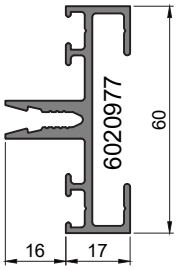




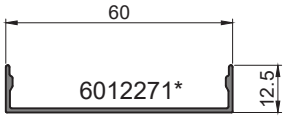


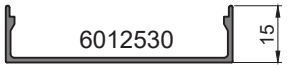


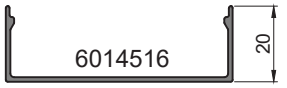


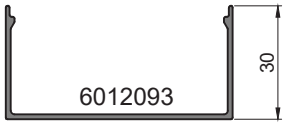


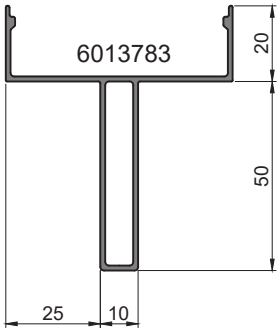
TÄCKLOCK
COVER STRIPS

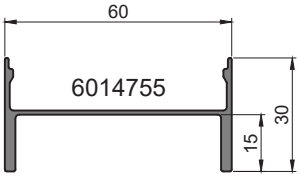


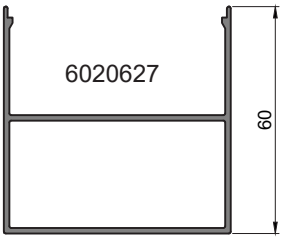


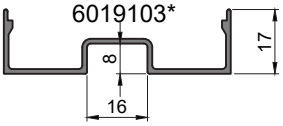


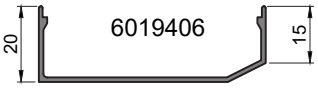






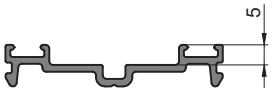


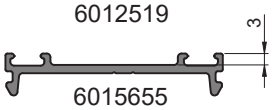


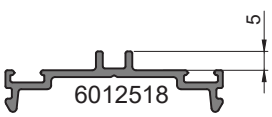


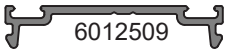
* Täcklock 6012271 är ej kompatibel med glaslist 6012519.

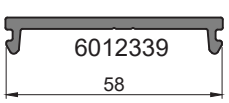
GLASLISTER
GLAZING BEADS

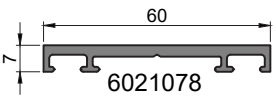




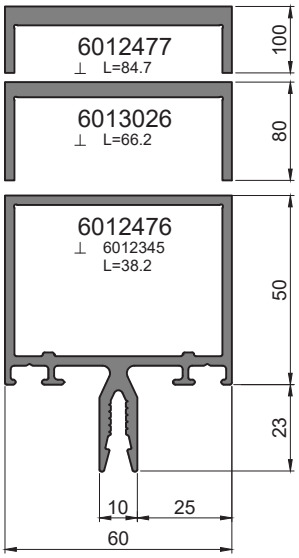




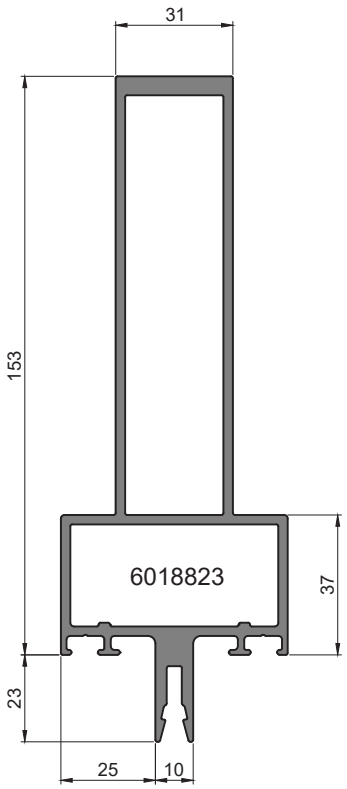


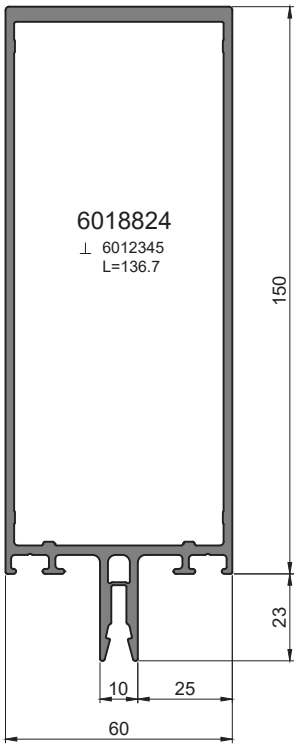


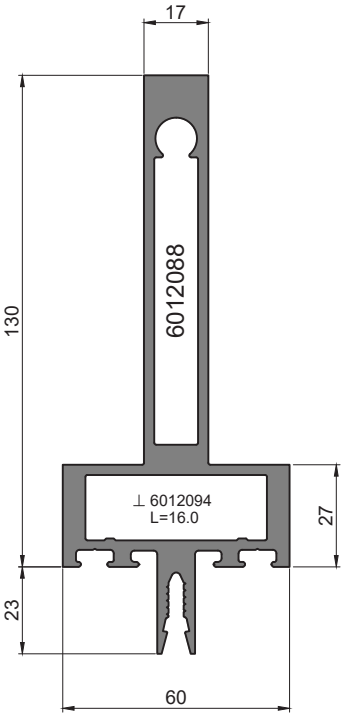
* Glazing capping 6012271 is not compatible with glazing bead 6012519.



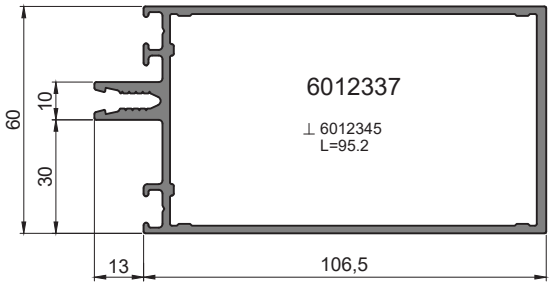
SPECIALPROFILER
SPECIAL FRAME PROFILES

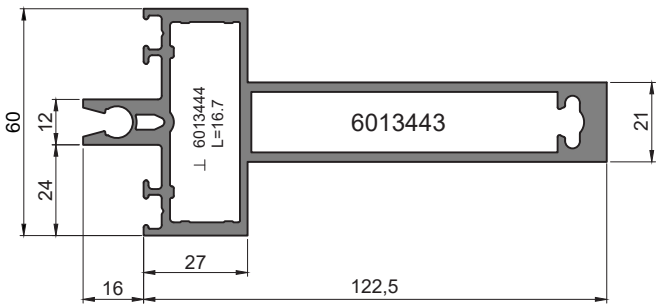


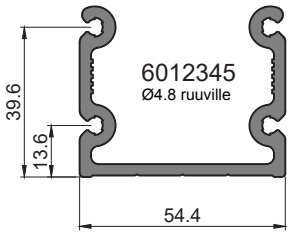


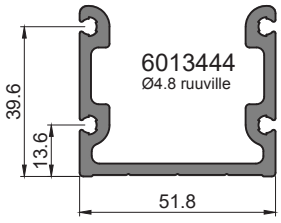


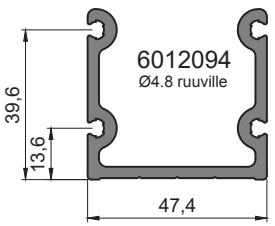
FÖRBINDARE
JOINING PROFILES



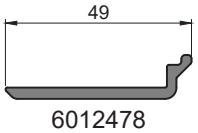


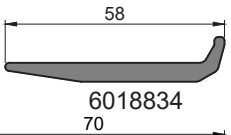


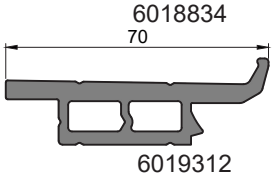


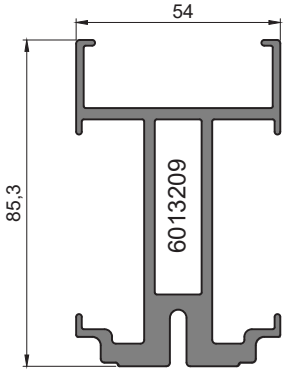


TILLBEHÖR
ACCESSORIES

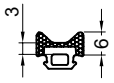




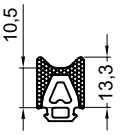




TÄTNINGAR
SEALINGS

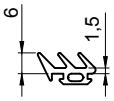


FG5

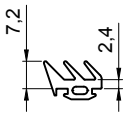


FG12

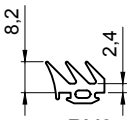
TÄTNINGAR
SEALINGS



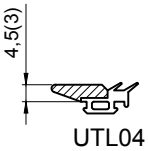
PX1



PX2

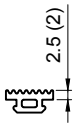


PX3

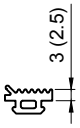


UTL04

SPECIALTÄTNINGAR
SPECIAL SEALINGS



RT25



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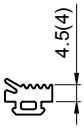
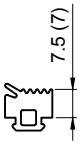
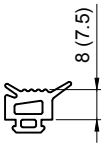


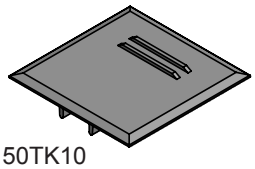
RT50



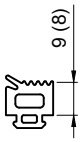
RT75



RT80



50TK10



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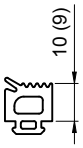

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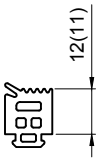

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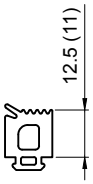
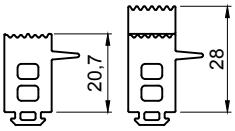
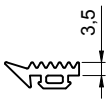


RT125

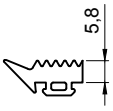
VT12



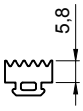
RT27/20 (K2031)
Vid behov, riv av toppdelen
When needed, rip off top part



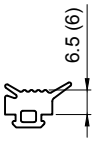
RT2



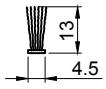
VT1



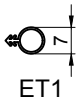
VT4



SG1

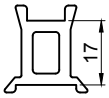


HT1

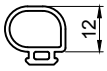


ET1

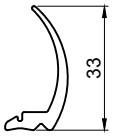
ET2



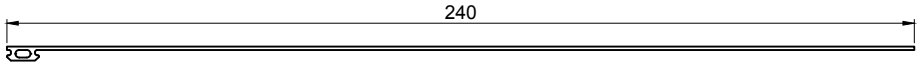
KT1



K922

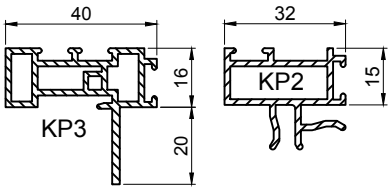


K923

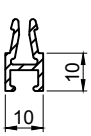


ET240

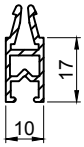
ISOLERSTEG
THERMAL BREAKS



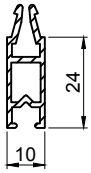
KP3



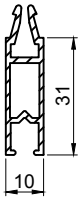
50LK1LE



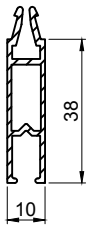
50LK2LE



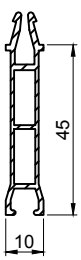
50LK3LE



50LK4LE



50LK5LE



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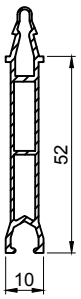
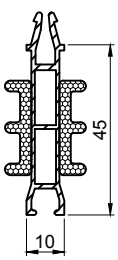


50LK7LE



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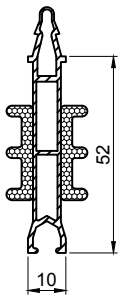

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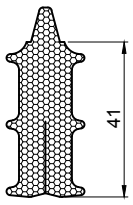
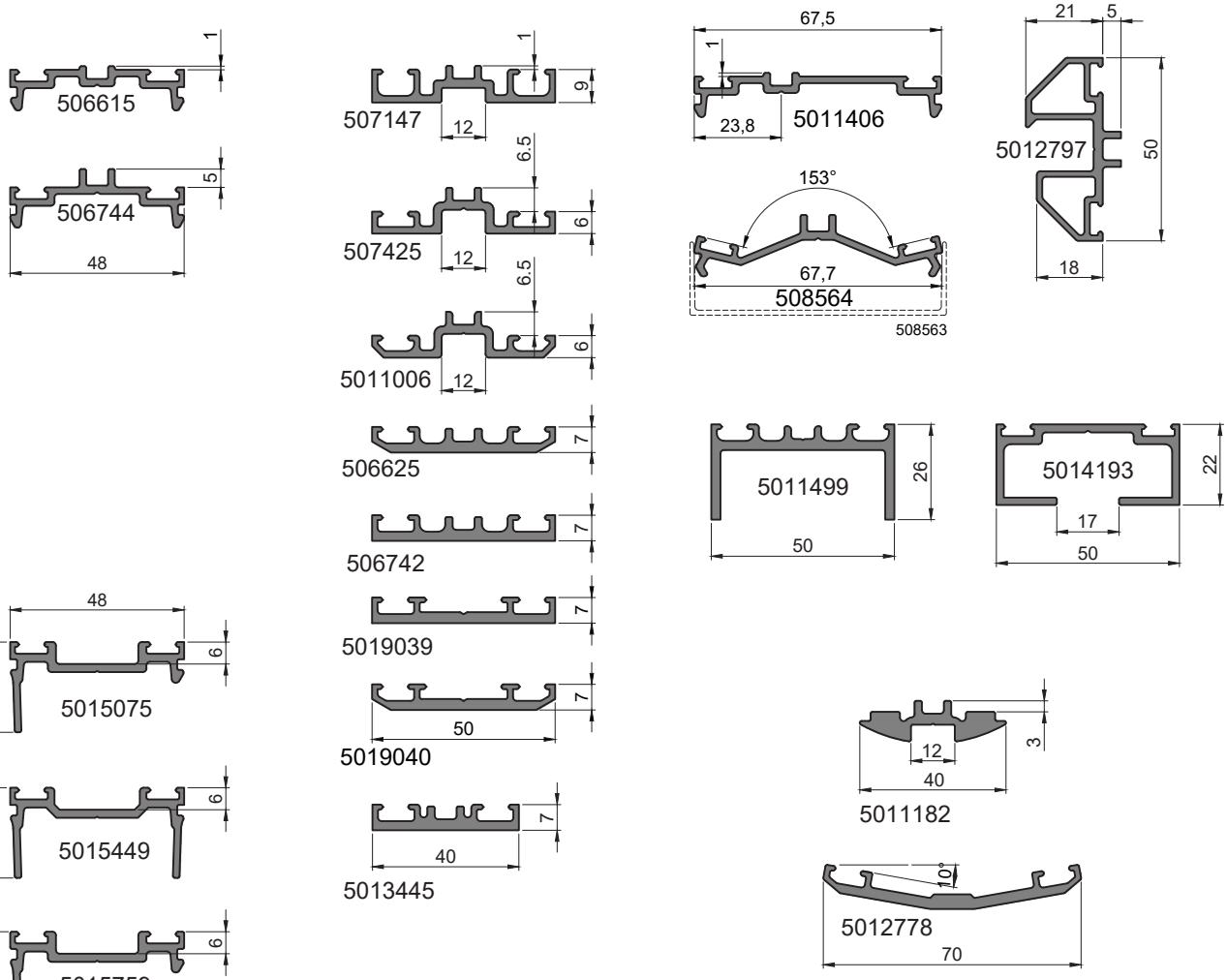
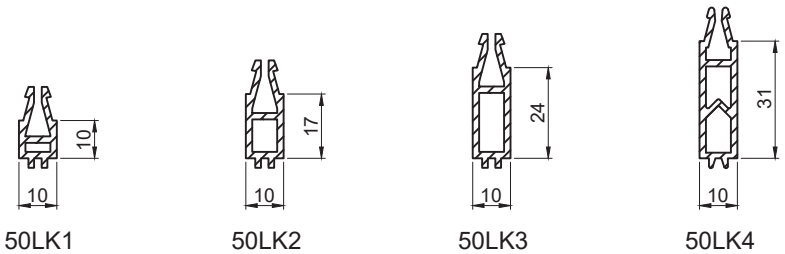


50LK6FOAM

SPECIAL GLASLISTER
SPECIAL GLAZING BEADS

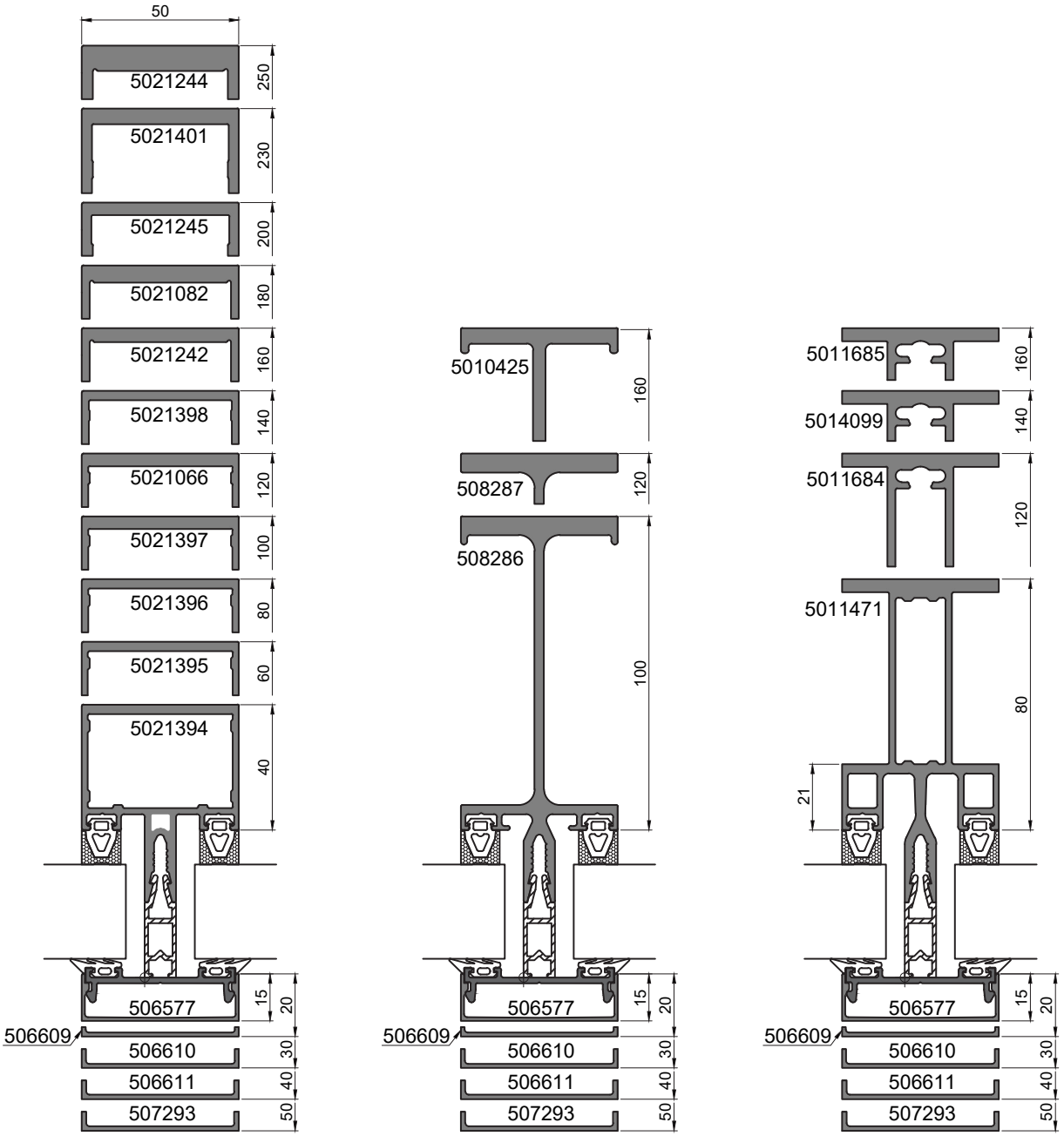


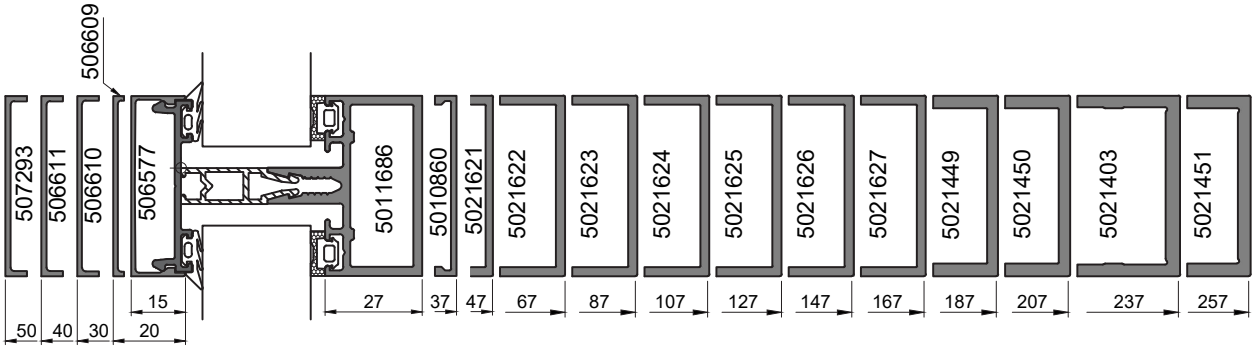
SPECIAL ISOLERSTEG
SPECIAL THERMAL BREAKS



50LK1 50LK2 50LK3 50LK4

PROFILKOMBINATIONER
PROFILE COMBINATIONS

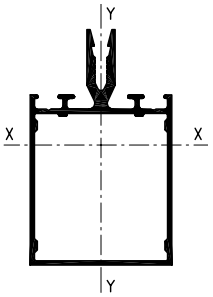




VÄRDEN SNITT FÖR P50L-SERIEN
CROSS-SECTION VALUES OF P50L-SERIES

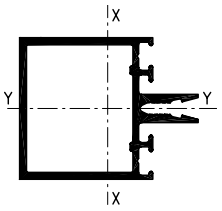
Vertikala profiler **Vertical frame profiles**

Profil Profile		I_x cm^4	W_x cm^3	I_y cm^4	W_y cm^3	A mm^2
507145	7	1,1	0,6	3,6	1,4	262
506603	10	2,4	1,1	4,9	2,0	315
5015694	10	2,2	1,0	4,6	1,8	307
5010859	30	9,1	3,0	9,6	3,8	429
5021394	40	19,7	5,3	14,0	5,6	562
5021395	60	44,2	9,6	18,4	7,3	638
5021396	80	82,3	15,0	23,6	9,4	734
508581	80	114,7	19,6	29,1	11,6	1010
5021397	100	147,9	22,0	29,0	11,6	860
5021066	120	227,9	30,2	33,5	13,4	962
508505	120	279,6	37,1	39,2	15,7	1186
5021398	140	296,1	35,5	39,9	16,0	1023
5021242	160	478,0	49,2	50,7	20,3	1287
5021082	180	668,3	60,8	57,1	22,8	1432
5021245	200	874,0	75,7	71,8	28,7	1551
5021401	230	1372,8	104,9	87,0	34,8	2041
5021244	250	2011,1	137,6	94,6	37,8	2345



Horisontella profiler **Horizontal frame profiles**

Profil Profile		I_x cm^4	W_x cm^3	I_y cm^4	W_y cm^3	A mm^2
509208	17	1,8	0,9	6,9	2,8	320
5011686	27	5,9	2,3	9,8	3,9	422
5010860	37	9,7	3,5	10,7	4,3	412
5021621	47	19,2	5,7	16,5	6,6	548
5021622	67	46,3	10,6	22,5	9,0	670
5021623	87	84,5	15,8	26,2	10,5	733
5021624	107	137,5	21,9	30,8	12,3	813
5021625	127	207,6	28,7	36,2	14,5	908
5021626	147	297,1	36,3	42,1	16,8	1011
5021627	167	408,7	44,7	48,3	19,3	1123
5021449	187	644,6	61,8	64,3	25,7	1462
5021450	207	861,9	75,3	74,9	30,0	1668
5021403	237	1286,5	98,9	88,2	35,3	1947
5021451	257	1597,6	114,7	101,1	40,4	2180



VÄRDEN SNITT FÖR P50L-SERIEN
CROSS-SECTION VALUES OF P50L-SERIES

Specialprofiler **Special frame profiles**

Profil Profile		I_x cm^4	W_x cm^3	I_y cm^4	W_y cm^3	A mm^2
506604	40	19,8	5,3	14,0	5,6	570
5010847	50	21,2	5,6	14,1	5,7	716
506605	60	44,5	9,7	18,4	7,4	646
5012246	60	47,3	11,4	27,9	11,1	872
506606	80	82,5	15,0	23,4	9,4	734
5011471	80	99,5	17,4	15,7	6,3	982
508746	80	98,3	16,6	98,3	16,6	963
506607	100	148,2	22,1	28,9	11,6	860
508286	100	175,9	24,9	11,7	4,7	932
5012472	100	172,4	28,3	47,3	18,9	1274
5012446	120	208,2	27,8	14,2	5,7	1157
506608	120	222,5	29,0	33,5	13,4	940
508287	120	258,0	32,3	11,0	4,4	980
5011684	120	262,7	35,1	18,2	7,3	1262
5016767	120	330,2	43,1	41,8	16,7	1364
507860	140	296,6	35,5	39,8	15,9	1023
5012703	140	300,9	34,7	15,0	6,0	1241
5014099	140	379,8	45,3	19,0	7,6	1362
5019389	140	291,4	34,6	20,1	8,0	1201
5019390	140	290,0	34,5	27,7	8,4	1201
5016393	140	396,5	49,5	64,2	25,7	1595
5015648	150	511,4	56,6	49,1	19,6	1433
506718	160	458,9	46,7	47,5	19,0	1208
5010425	160	495,6	51,3	11,4	4,6	1222
5011685	160	523,9	56,3	19,9	8,0	1462
5012375	180	569,2	52,2	16,8	6,7	1441
5018527	180	548,5	51,5	21,8	8,7	1401
5018528	180	548,5	51,5	29,0	8,7	1401
5011854	180	666,9	60,6	57,1	22,8	1429
507597	200	878,2	72,4	63,1	25,3	1551
5017234	250	2024,8	138,8	95,0	38,0	2353

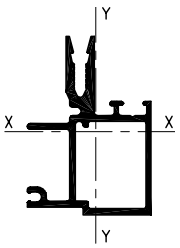
Specialprofil vertikal **Special vertical frame profiles**

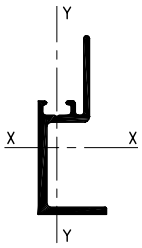
Profil Profile		I_x cm^4	W_x cm^3	I_y cm^4	W_y cm^3	A mm^2
508745	47	16,1	4,8	6,3	3,0	456
508744	47	16,2	4,9	6,1	2,9	445
5012777	47	17,5	5,2	11,5	4,4	487
508288	51	13,4	3,6	3,7	1,5	482
5010848	57	22,1	6,0	13,2	5,3	593
5012246	60	47,3	11,4	27,9	11,1	872
507257	67	48,4	10,9	19,9	8,0	635
5011498	71	38,0	8,1	5,5	2,2	611
507666	87	81,7	15,7	24,5	9,8	700
5012472	100	172,4	28,3	47,3	18,9	1274
507667	107	132,4	21,6	29,1	11,7	780
507668	127	213,7	29,3	35,4	14,2	907
507861	147	281,3	34,0	40,8	16,3	978
5015680	157	458,1	50,6	69,4	27,8	1592
5015651	157	365,4	41,7	45,6	18,2	1092
507823	167	395,0	42,7	47,5	19,0	1101
5013569	187	605,8	58,9	57,4	23,0	1337
5013031	207	833,8	71,8	64,0	25,6	1485
5019036	257	1430,0	101,6	78,1	31,3	1736

VÄRDEN SNITT FÖR P50L-SERIEN
CROSS-SECTION VALUES OF P50L-SERIES

Expansionsprofiler **Expansion profiles**

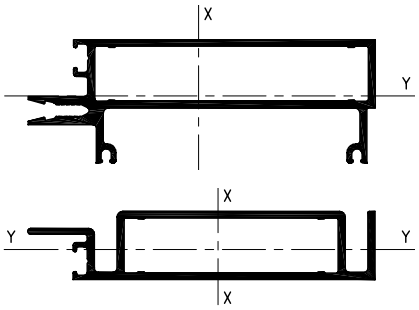
Profil Profile		I_x cm⁴	W_x cm³	I_y cm⁴	W_y cm³	A mm²
5015150	50	27,1	6,7	7,3	3,7	568
508503	60	37,0	8,5	8,9	3,6	592
508504	60	22,4	4,5	3,0	2,3	428
5011263	60	39,7	8,8	8,4	4,3	608
509054	80	71,1	13,5	10,7	4,1	691
509055	80	44,7	7,6	4,1	3,2	520
5011204	80	74,2	13,7	10,6	5,5	688
509381	100	118,0	19,1	12,0	4,5	771
509382	100	77,2	11,2	5,0	4,0	600
5012817	120	191,1	26,5	13,9	5,0	911
5012818	120	128,6	16,2	6,5	5,1	739
507863	140	287,1	35,1	15,8	5,6	1056
507864	140	196,6	21,8	7,8	6,2	861
507824	160	410,4	44,6	17,8	6,2	1210
507825	160	285,6	28,5	9,3	7,5	1004
5022073	180	540,8	53,1	18,9	6,5	1339
5022074	180	381,6	34,6	10,4	8,5	1125
5018128	200	702,3	62,9	20,1	6,9	1435
5018129	200	504,9	42,0	11,5	9,4	1221





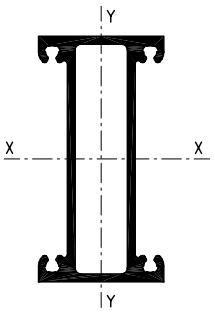
Expansionsprofiler **Expansion profiles**

Profil Profile		I_x cm⁴	W_x cm³	I_y cm⁴	W_y cm³	A mm²
507943	127	198,0	27,8	14,1	5,3	925
507944	127	138,4	17,8	6,9	5,5	766
5010575	147	284,4	34,9	15,4	5,6	1017
5010576	147	205,0	23,4	8,0	6,3	860



Expansionsprofiler **Extension profiles**

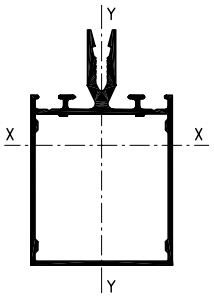
Profil Profile		I_x cm⁴	W_x cm³	I_y cm⁴	W_y cm³	A mm²
5011150	86,6	89,8	20,7	13,5	6,1	853
507427	106,8	149,1	28,0	14,8	6,7	964
507862	126,8	236,4	37,4	16,1	7,3	1101
507830	144,5	328,4	45,4	17,2	7,8	1202
5016768	164,0	481,7	58,7	18,9	8,6	1364
507403	183,5	654,9	71,3	21,1	9,5	1499
5021612	184,6	1099,8	119,1	14,3	7,0	2484
5021402	212,6	1571,9	147,9	14,4	7,0	2708
5021520	227,6	1867,9	164,1	14,5	7,0	2828



VÄRDEN SNITT FÖR P60L-SERIEN
CROSS-SECTION VALUES OF P60L-SERIES

Profiler **Frame profiles**

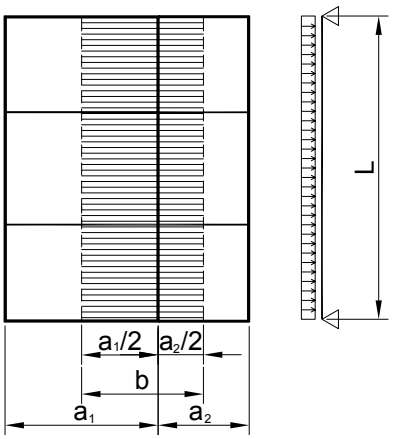
Profil Profile		I_x cm^4	W_x cm^3	I_y cm^4	W_y cm^3	A mm^2
6012476	50	32,4	7,9	28,2	9,4	697
6015248	57	37,8	9,3	31,1	10,4	702
6013446	67	57,6	12,4	35,9	12,0	779
6013026	80	106,6	18,5	43,4	14,5	957
6013209	86	73,6	13,9	18,5	6,8	958
6012477	100	129,9	28,1	53,8	17,9	1140
6012337	107	140,2	23,3	44,1	14,4	812
6013208	107	169,7	25,8	52,5	17,5	979
6013566	120	255,0	32,5	59,4	19,1	1116
6013443	123	228,9	30,7	25,5	8,3	1201
6013567	127	265,7	36,2	62,1	20,7	1123
6012088	130	318,3	38,1	31,8	10,6	1557
6018824	150	422,7	45,9	67,8	22,6	1222
6018823	153	398,8	43,8	35,5	11,8	1338
6018825	157	437,7	48,2	70,2	23,4	1220
6013814	230	1057,8	92,0	82,0	32,8	1732
6013813	250	2062,4	138,5	139,5	46,5	2363
6019515	250	2064,2	142,5	102,2	34,1	2417
6019516	230	885,4	77,0	34,5	20,3	1597

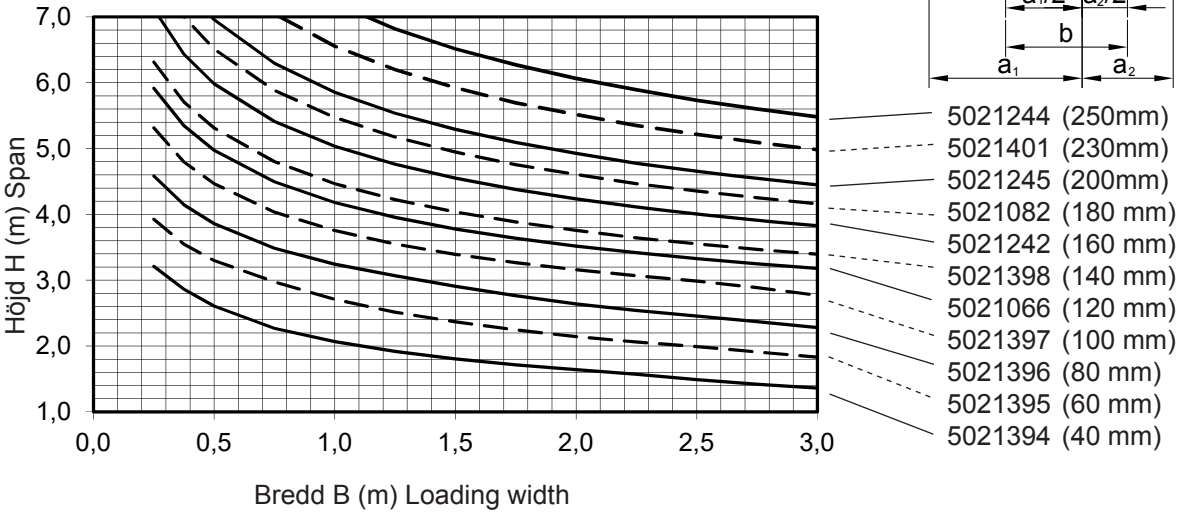


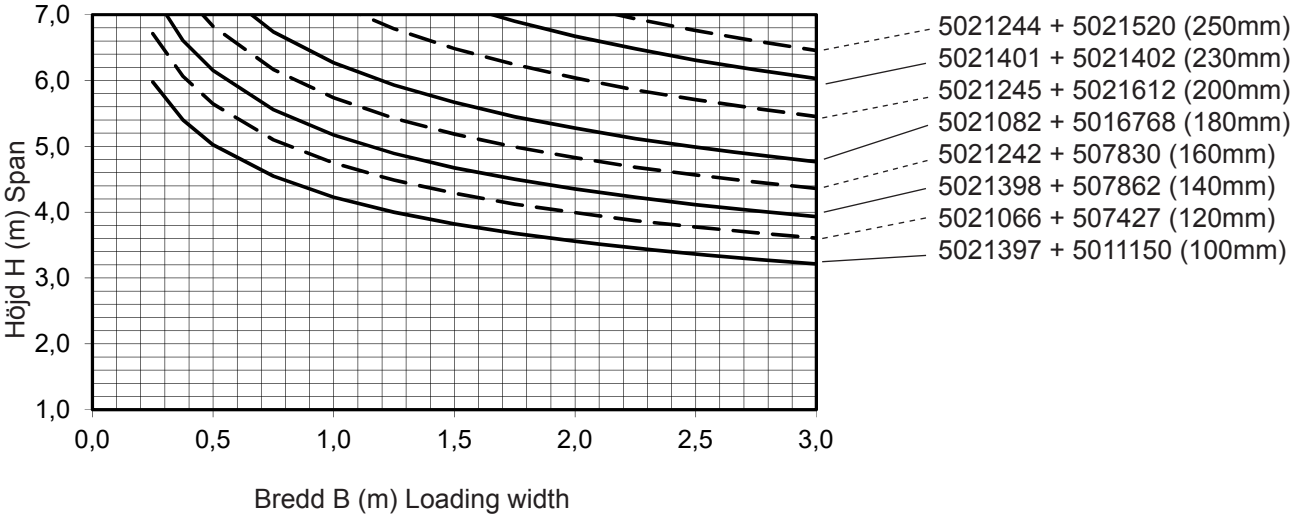
DIMENSIONERING FÖR VINDLASTER
DIMENSIONING OF FRAME FOR WIND LOAD

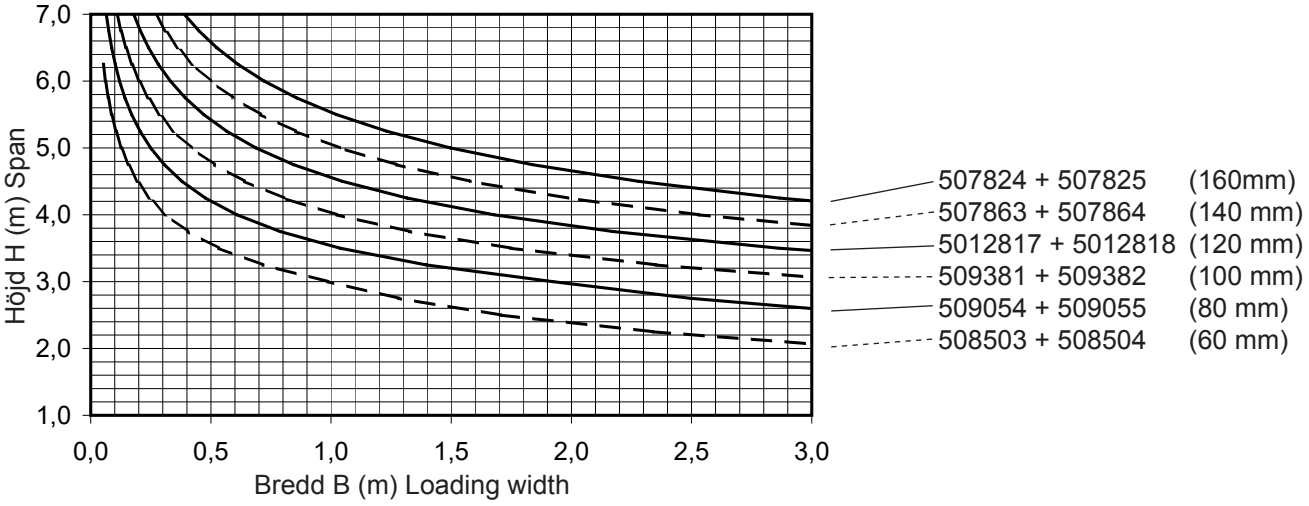
Glasytan är uppdelad enligt tabell.
Glass area is divided to parts in the direction to span.

Max frontallast/ Maximum frontal deflection **L/200 ≤ 15 mm**
(EN 13830:2003)
Vindlast/ Wind load w: 0.6 kN/m²
Preliminär statik/ Preliminary statics

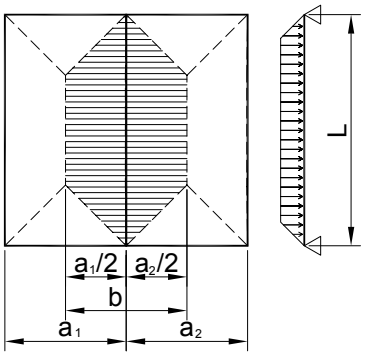






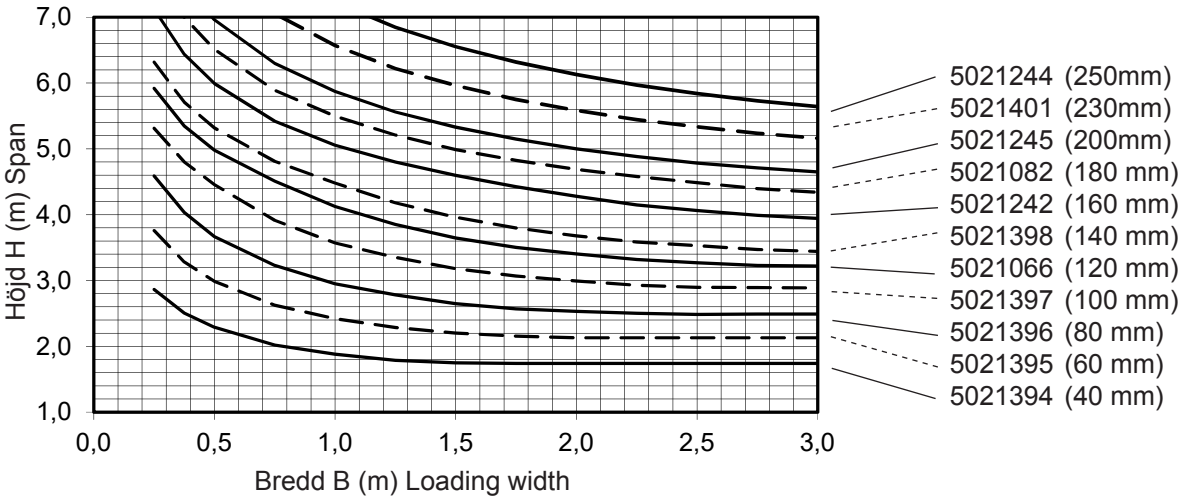


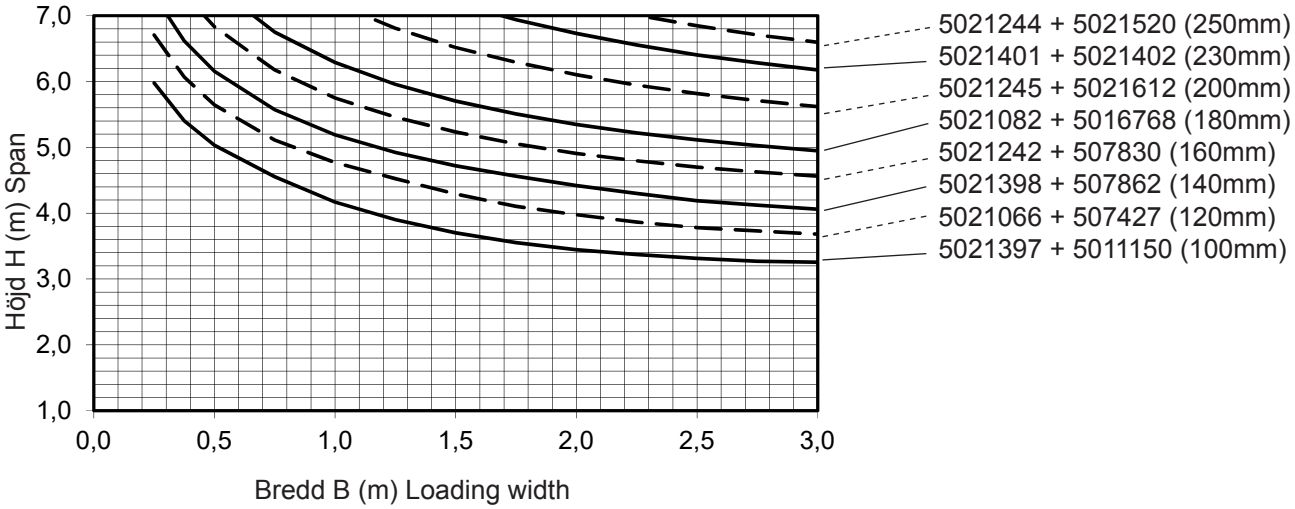
DIMENSIONERING FÖR VINDLASTER
DIMENSIONING OF FRAME FOR WIND LOAD

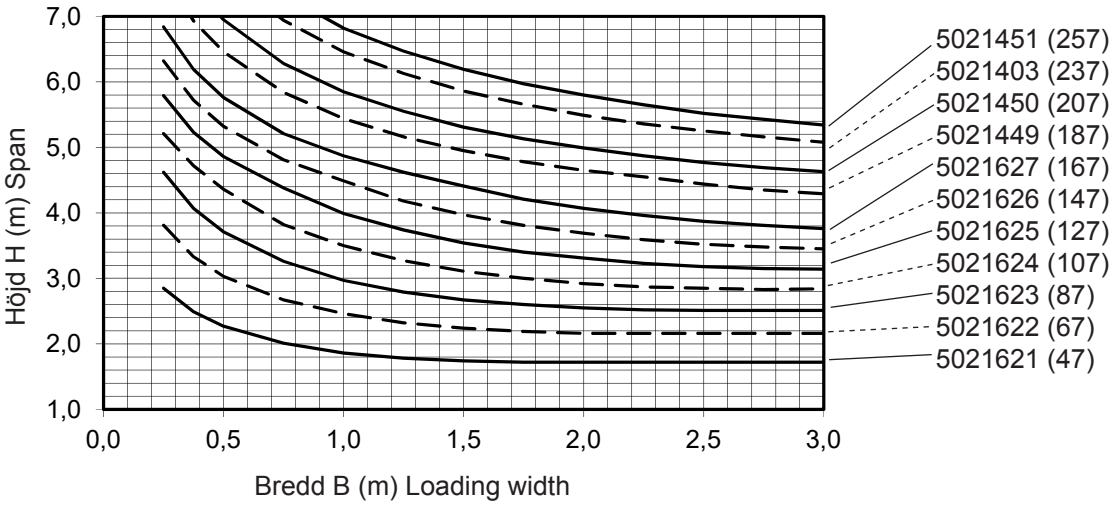


Glasytan är uppdelad enligt tabell.
Glass area is not divided to parts in the direction to span.

Max frontallast/ Maximum frontal deflection **L/300 ≤ 15 mm**
(EN 13830:2003)
Vindlast/ Wind load w: 0.6 kN/m²
Preliminär statik/ Preliminary statics

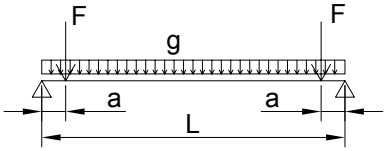




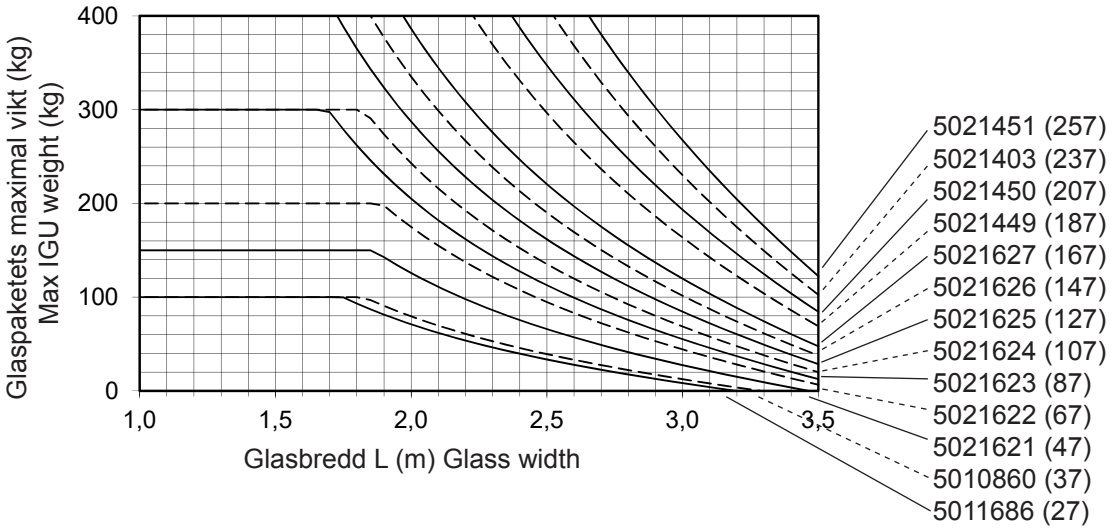


DIMENSIONERING AV HORISONTALPROFIL FÖR GLASVIKT
DIMENSIONING OF HORIZONTAL FRAME FOR GLASS WEIGHT

Maxinal vertikal nedböjning/ Maximum vertical deflection L/500 ≤ 3 mm (EN 13830:2003)
Maximal distans för glaskloss/ Setting block distance a: 100 mm



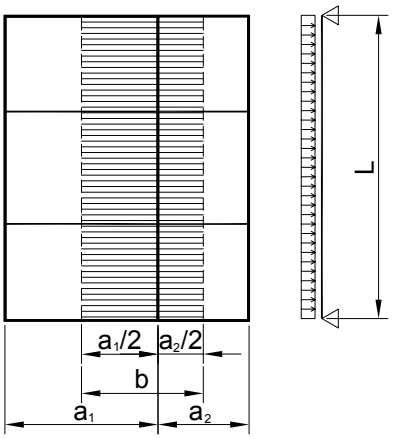
Preliminär statik/ Preliminary statics

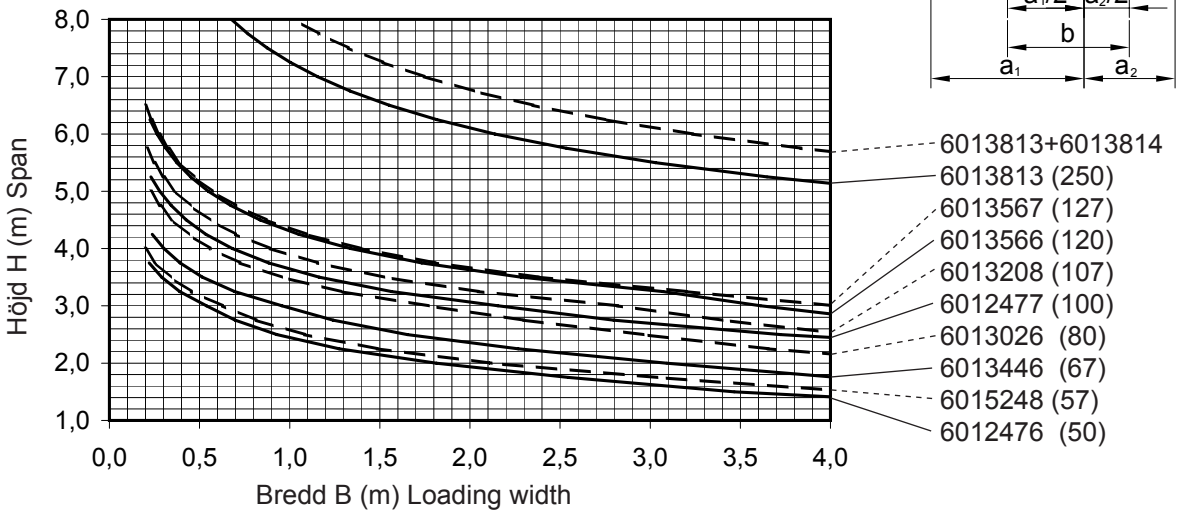


DIMENSIONERING AV PROFILER FÖR VINDLAST
DIMENSIONING OF FRAME FOR WIND LOAD

Glasytan är uppdelad enligt tabell.
Glass area is divided to parts in the direction to span.

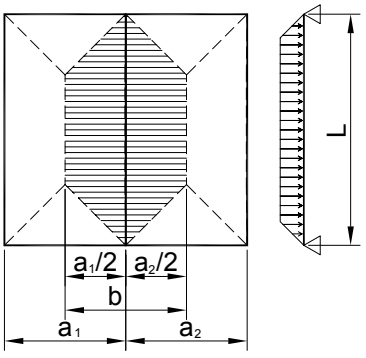
Max frontallast/ Maximum frontal deflection(EN 13830:2003)
Vindlast/ Wind load w: 0.6 kN/m²
Preliminär statik/ Preliminary statics

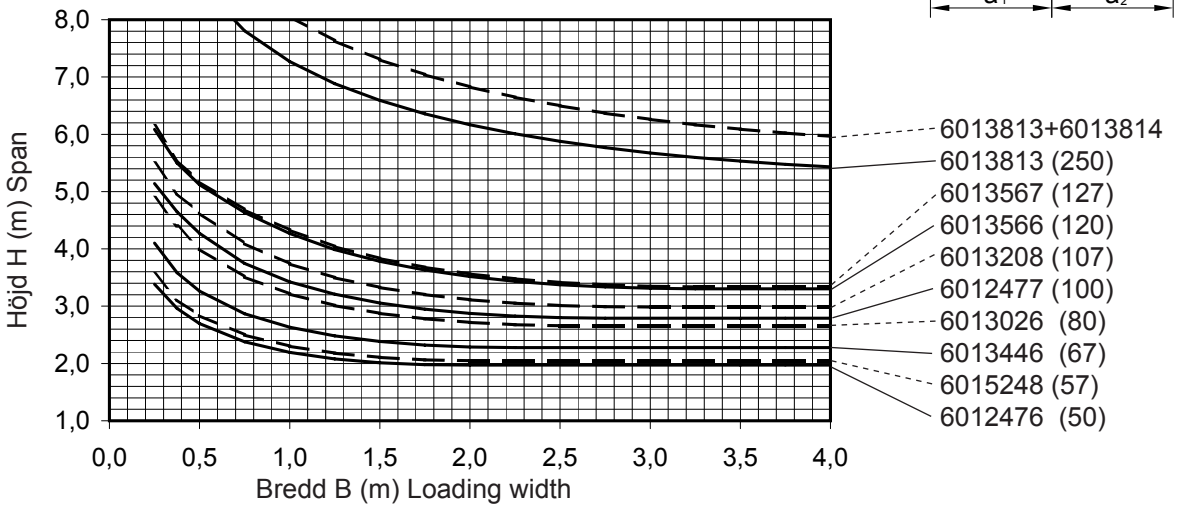




Glasytan är uppdelad enligt tabell.
Glass area is not divided to parts in the direction to span.

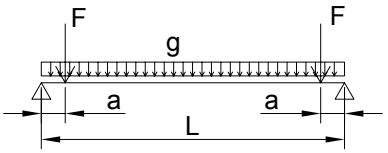
Max frontallast/ Maximum frontal deflection(EN 13830:2003)
Vindlast/ Wind load w: 0.6 kN/m²
Preliminär statik/ Preliminary statics

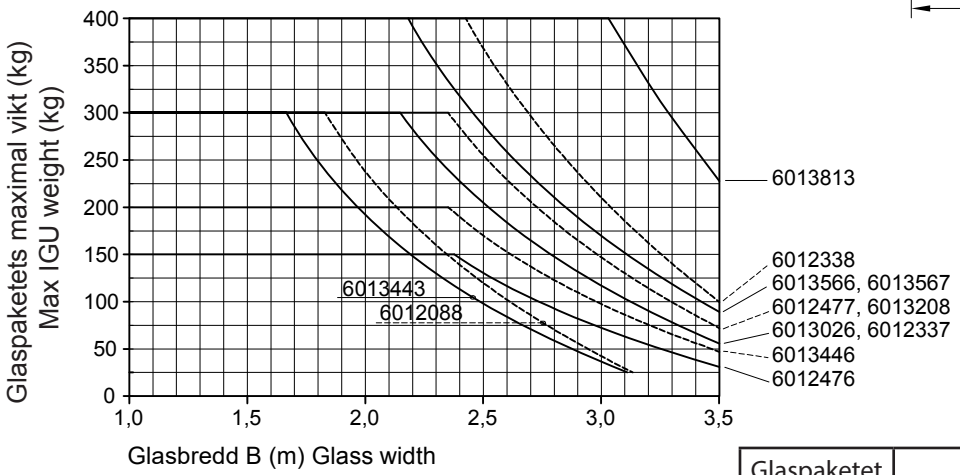




DIMENSIONERING AV HORISONTALPROFIL FÖR GLASVIKT
DIMENSIONING OF HORIZONTAL FRAME FOR GLASS WEIGHT

Maximal vertikal nedböjning/ Maximum vertical deflection L/500 ≤ 3 mm (EN 13830:2003)
Maximal distans för glaskloss/ Setting block distance a: 100 mm

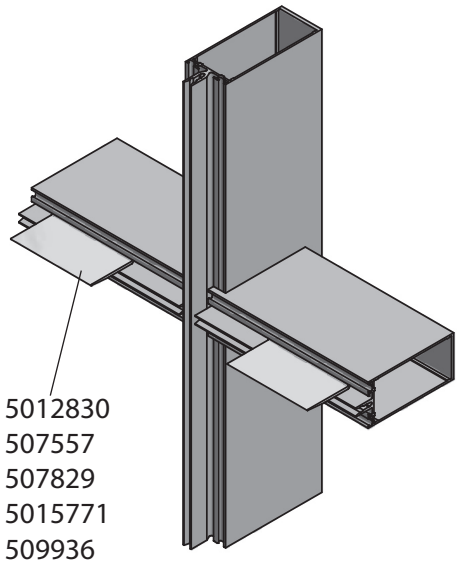


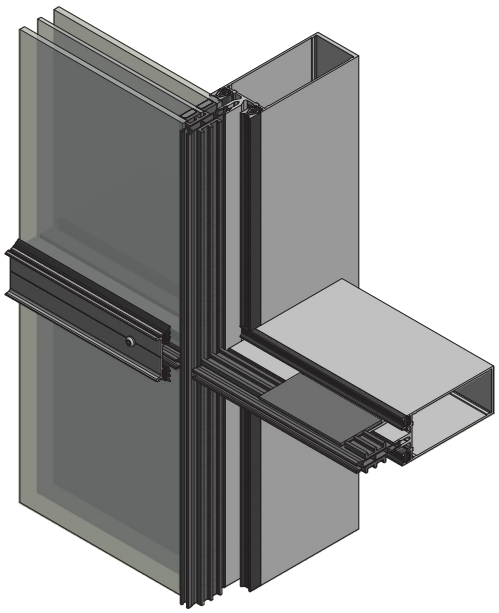


Glaspaketet IGU	kg/m²	Glaspaketet IGU	kg/m²
2K - 4	21	3K - 4	31
-5	26	-5	39
-6	31	-6	47

GLASBÄRARE STANDARD
STANDARD GLAZING SUPPORT

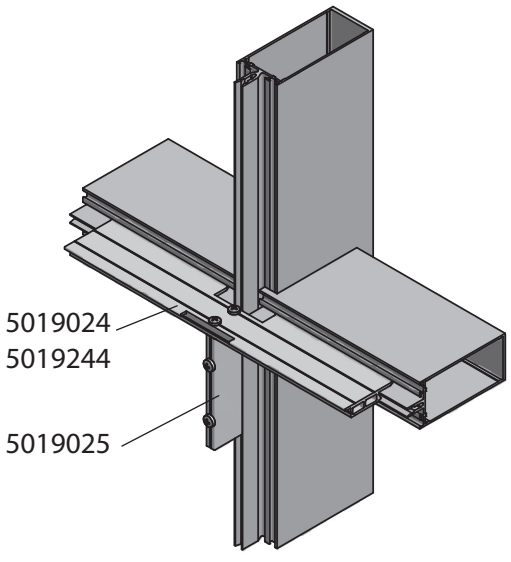
Glaspaketets maximal vikt ≤ 200 kg
IGU load ≤ 200 kg
Se tillverkningsinstruktioner för detaljer om laster.
See fabrication instructions for load details.

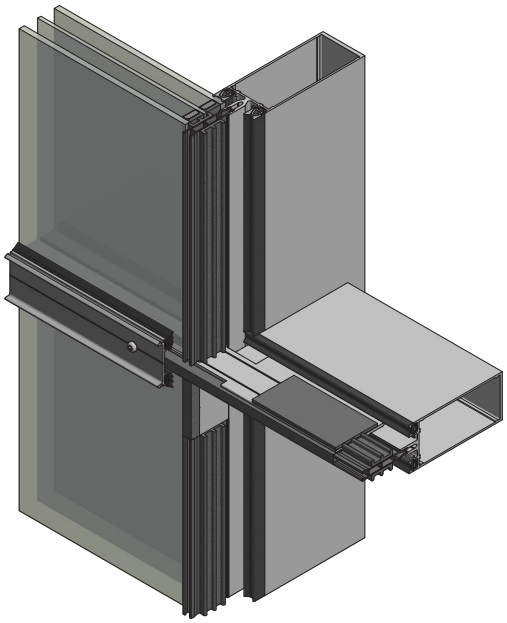




GLASBÄRARE FÖRSTÄRKTA
GLAZING SUPPORTS FOR HIGHER LOAD

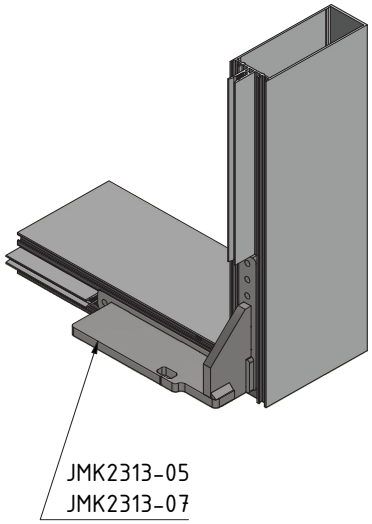
Se tillverkningsinstruktioner för detaljer om laster.
See fabrication instructions for load details.

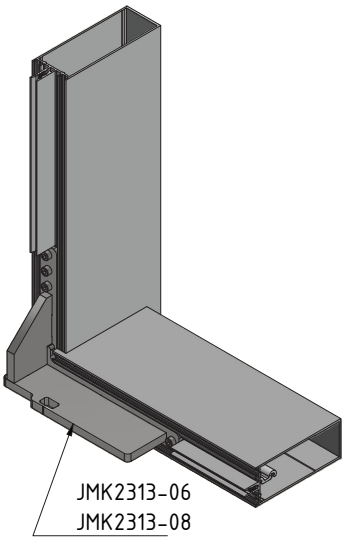




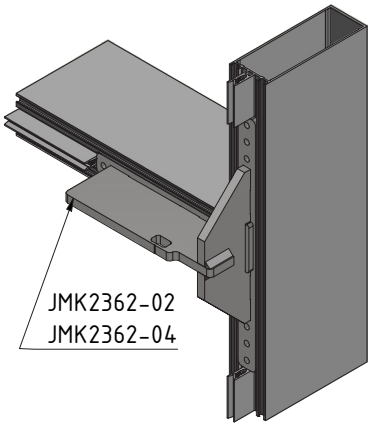
GLASBÄRARE FÖRSTÄRKTA
GLAZING SUPPORTS FOR HIGHER LOAD

Glaspaketets maximal vikt ≤ 400 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 400 kg, see fabrication instructions for load details.

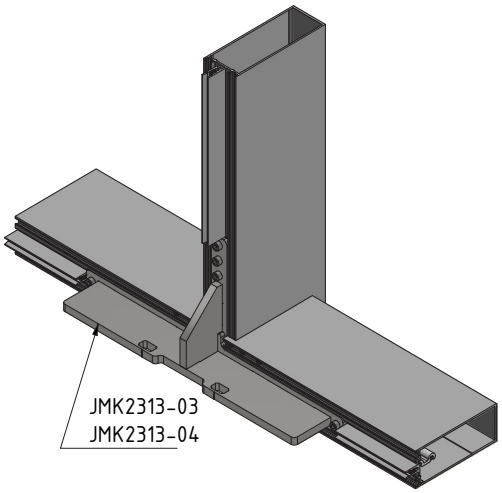


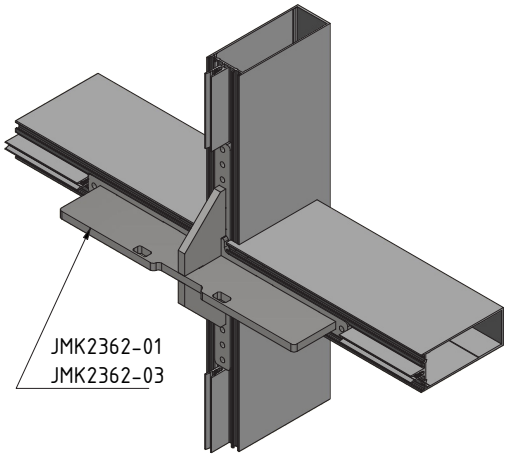


Glaspaketets maximal vikt ≤ 500 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 500 kg, see fabrication instructions for load details.



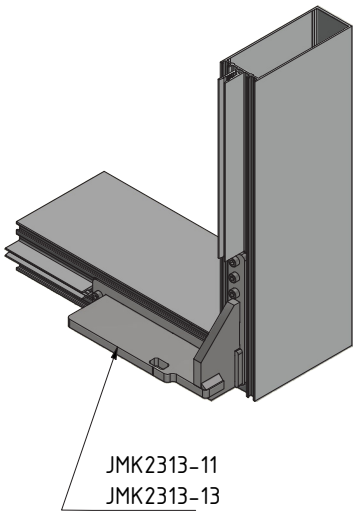
Glaspaketets maximal vikt ≤ 850 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 850 kg, see fabrication instructions for load details.

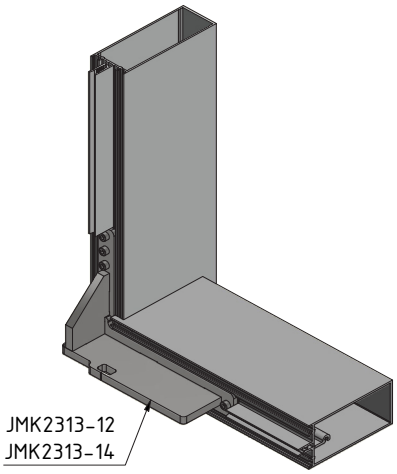




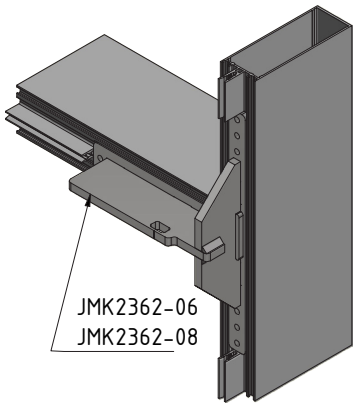
GLASBÄRARE FÖRSTÄRKTA
GLAZING SUPPORTS FOR HIGHER LOAD

Glaspaketets maximal vikt ≤ 500 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 500 kg, see fabrication instructions for load details.

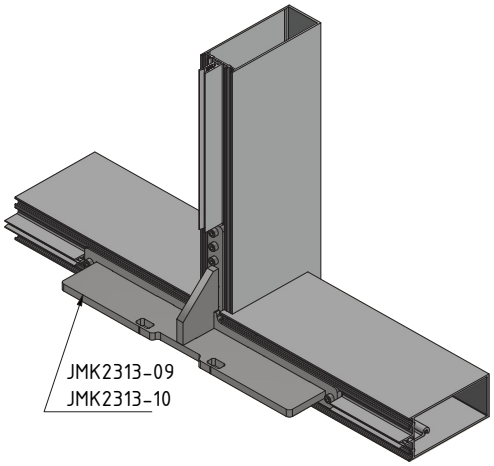


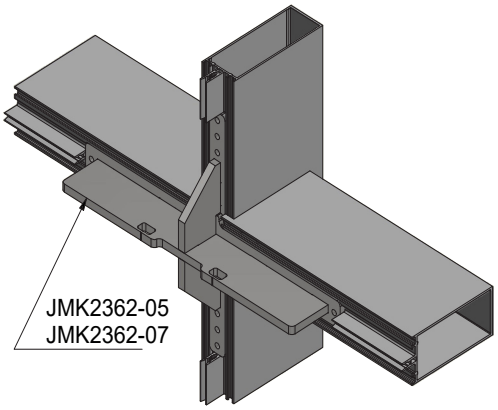


Glaspaketets maximal vikt ≤ 600 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 600 kg, see fabrication instructions for load details.



Glaspaketets maximal vikt ≤ 900 kg, se tillverkningsinstruktioner för detaljer om laster.
IGU load ≤ 900 kg, see fabrication instructions for load details.





DIMENSIONERING AV RAMVERK
Dimensioneringsexempel

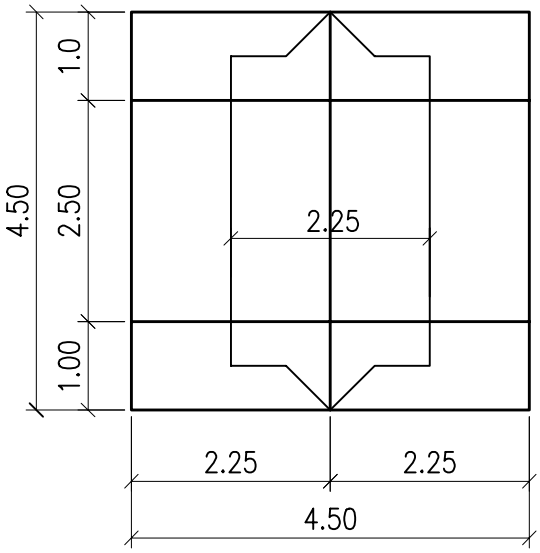
DIMENSIONING OF FRAME
Dimensioning example

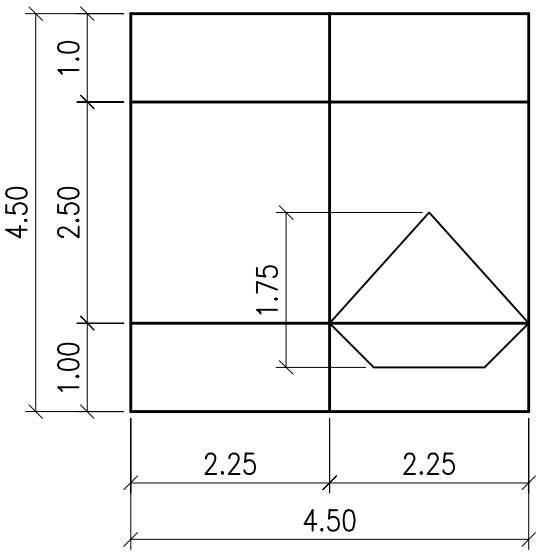
vindlast $w = C_p \times q$

$= 1.0 \times 0.6 = 0.6$ kN/m²

wind load $w = C_p \times q_k$

$= 1.0 \times 0.6 = 0.6$ kN/m²





DIMENSIONERING AV VERTIKAL PROFIL

- höjd 4.5 m
- lastbredd 2.25 m
- dimensioneringssida 13.2

→ vertikal profil 5011854 (180mm)

DIMENSIONERING AV HORISONTALPROFIL

Vindlast:
- bredd 2.20 m
- lastbredd 1.75 m
- profildimensioneringskurva på sida 13.4

→ horisontalprofil 507257 (67mm)

Glasvikt:
- Trippelglas, glaspaketets vikt =
  2.5 x 2.25 x 39 = 220 kg
- dimensioneringstabell för glasvikt sida 13.5

→ horisontalprofil 507668 (127mm)

Horisontalprofilen skall vara
507668 (127mm)

DIMENSIONING OF VERTICAL FRAME PROFIL

- span 4.5 m
- loading widht 2.25 m
- frame dimensioning page 13.2

→ vertical frame profil 5011854 (180mm)

DIMENSIONING OF HORIZONTAL FRAME PROFILE

Wind load:
- span 2.20 m
- loading widht 1.75 m
- frame dimensioning curves page 13.4

→ horizontal frame profil 507257 (67mm)

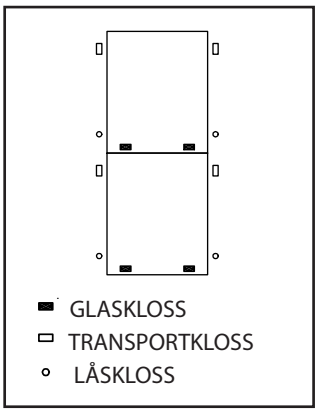
Glass weight:
- 3K-glass, IGU weight =
  2.5 x 2.25 x 39 = 220 kg
- dimensioning table for glass weight, page 13.5

→ horizontal frame profile 507668 (127mm)

Horizontal profile to be
507668 (127mm)

GLASNINGSINSTRUKTIONER FÖR FASAD

Innan glasningen påbörjas, se till att glasfalser, glaslister och glaskassetterna är rena och torra.



Klossning

Typer av klossar

- glasklossar fördelar vikten av glaset till profilerna
- transprtklossen ser till att hålla glaset på plats i ramverket under transport
- låsklossen håller glaset på plats när det är monterat

Glasklossar

Glasklossarna skall vara gjorda av plast (hårdhet 70°-90° Shore A) eller motsvarande och vara motståndskraftiga mot väder och temperaturskiftningar. Glasklossarna skall vara minst 5mm tjock. Om glasbäraren är av aluminium skall glasklossen vara 3mm tjock. Om glasets bredd är under 1500mm skall glasklossarna vara mellan 50-100mm. När bredden är över 1500mm skall glasbärarnas bredd vara 100-150mm.

Glasbärare

Glasbärare väljs utefter glaspaketets tjocklek och vikt enligt tillverkningsinstruktionerna sida 13.6.6.

Lås- och transportklossar

Lås- och transportklossarna skall vara av lämplig tjocklek och får inte påverka funktionen hos glasklossarna.
Dessa klossar är minst 100mm långa och i samma bredd som glasklossen.

Installation of pads

Positioning of bearing, lock and transport pads is shown in the illustration. The pads are placed at a distance of 50 to 100 mm from the corner of the IGU glass element. The pads are to be positioned so that they bear and support the sealedIGU gllazing element through its entire thickness. The pads must not block the ventilation holes of the rebate. When installing lock and transport pads it must be ensured that they do not disturb the function of the bearing pads

Tätning

På båda sidor av glaslisten kommer det att vara cirka 3mm "luft", detta skall fyllas med elastisk fog.

Tätning med EPDM

EPDM-gummit skall kapas med cirka 5mm/m övermått fär att tillåta gummit att dra ihop sig med tiden. Skarvarna skall limmas med elastisk fog typ OTTOSEAL S54.

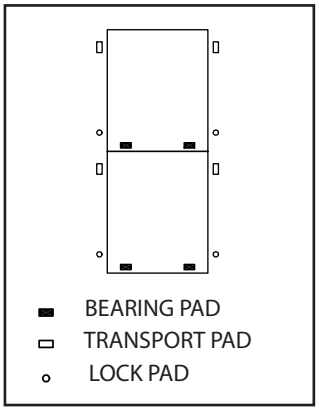
Ventilation och dränage av profil

Klinkade möten

Ventilation och dränage görs genom att vår speciella dräneringsprofil monteras i den övre och den undre delen av de stående profilerna.
I höga fasader skall även dessa dräneringsprofiler monteras på fler ställen. 7 meters intervall är lagom, och de monteras vid de horisontella profilerna. Inga andra ventilation- eller dräneringshål görs. Utrymmet bakom fasadglas ventileras via glaslisten och täcklocken.

GLAZING INSTRUCTIONS FOR FACADE

Before commencing glazing, it must be ensured that glass rebates, glazing beads and glass panes are clean and dry.



Padding

Pad types

- bearing pads that transmit the weight of the pane to the frame
- transport pads that ensure the glass pane remains in place in the window element during transport
- lock pads that hold the pane in place

Bearing pads

Bearing pads are made of plastic (hardness 70°-90° Shore A) or equivalent and have to be resistant to weather and changes in temperature. Bearing pads shall be at least 5 mm thick. If aluminium bearing profile are used, the bearing pads shall be 3 mm thick. The widht of the pads shall be appropriate to support the sealed glazing unit across its entire thickness. If the widht of the glass is under 1500 mm the lenght of the bearing pads are to be 50-100 mm. When the widht of the glass is over 1500 mm the lenght of the bearing pads shall be 100-150 mm.

Bearing profile

IGU glass unit bearing profile selected according IGU element thickness and weight by the manufacturing instructions on page 13.6.

Lock and transport pads

Lock and transport pads shall be of appropriate thickness and must not obstruckt functioning of bearing pads.
Lock and transport pads are at least 100 mm long and as wide as the bearing pads.

Installation of pads

Positioning of bearing, lock and transport pads is shown in the illustration. The pads are placed at a distance of 50 to 100 mm from the corner of the IGU glass element. The pads are to be positioned so that they bear and support the sealedIGU gllazing element through its entire thickness. The pads must not block the ventilation holes of the rebate. When installing lock and transport pads it must be ensured that they do not disturb the function of the bearing pads

Sealing

To the both ends of glazing beads will be reserved an allovance of 3 mm which are filled with elastic sealing compound.

Sealing by sealing strips

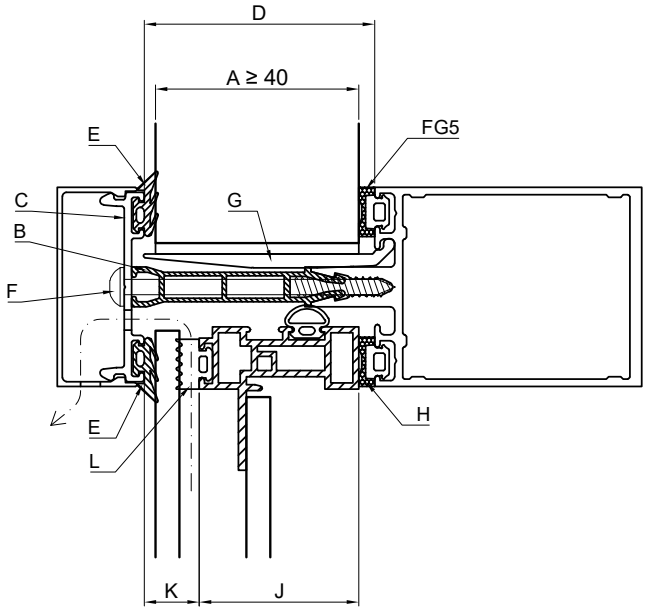
An allovance for shrinkage (ca. 5 mm/m) must be made when cutting the sealing strips. Joints are to be glued and sealed with sealing compound, e.g. OTTOSEAL S54. The sealing strips Purso Oy provides are made of EPDM rubber.

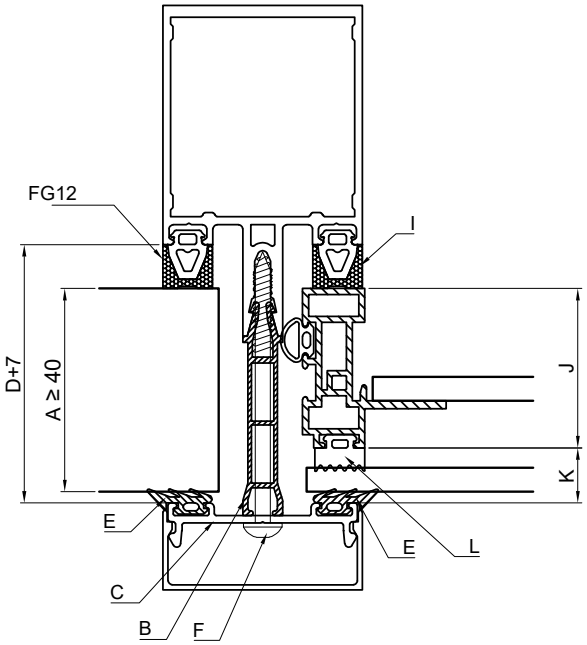
Ventilation and drainage of rebate space

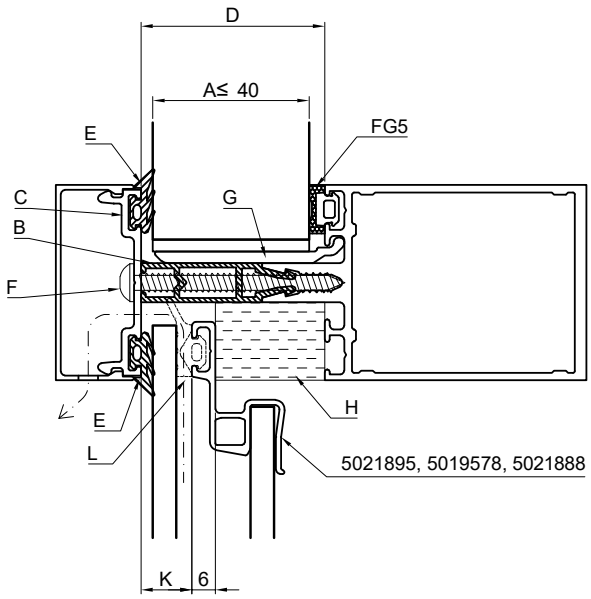
Lap joint

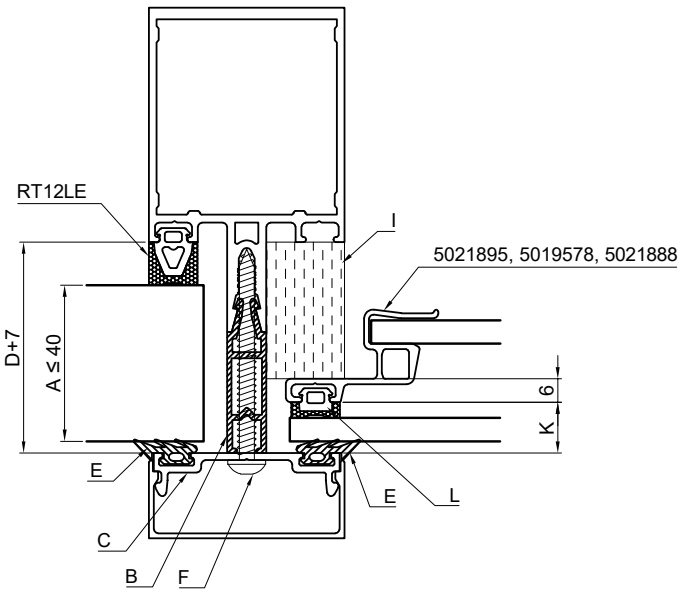
Ventilation and drainage is carried out throuht the drainage flute installed in the upper and lower end of the vertical profile. In high facades there have to be drainage flutes installed also between the ends. These intermediate flutes are installed with 7 m intervals in level with the horizontal profiles. No other ventilation or drainage holes are made. The space behind facade glass is ventilated through holes in the glazing bead and the cover strip.

GLASNINGSINSTRUKTIONER P50L
GLAZING INSTRUCTIONS P50L









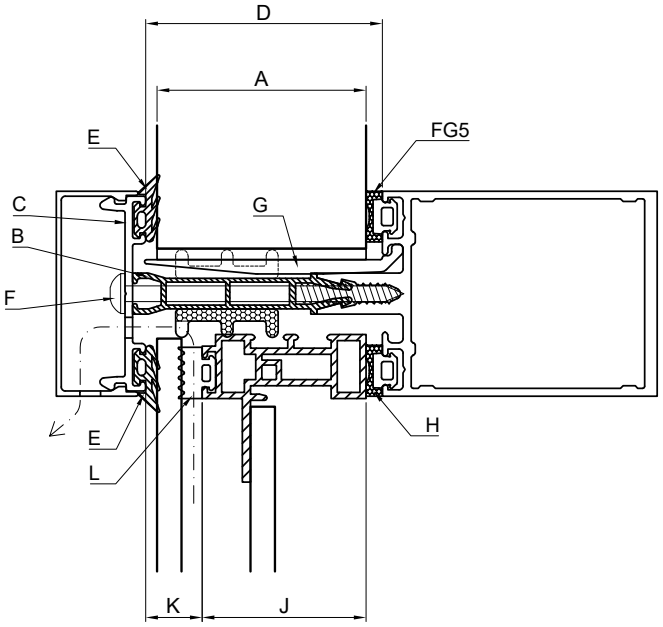
GLASNINGSINSTRUKTIONER P50L
GLAZING INSTRUCTIONS P50L

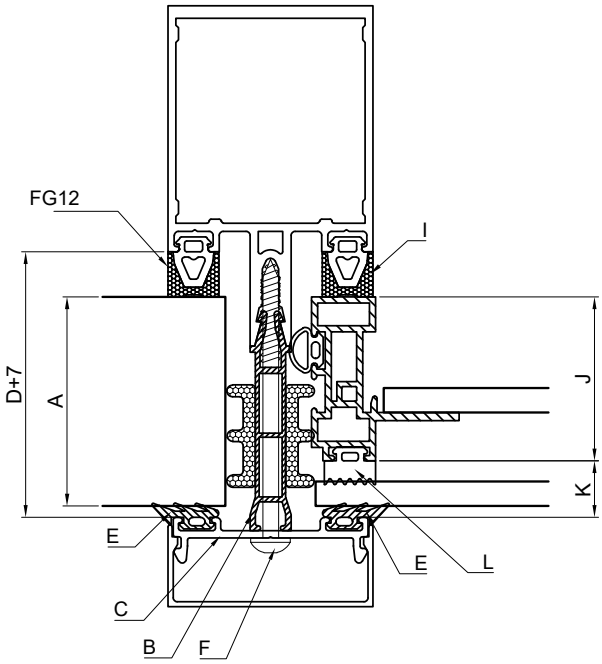
(english version see page 10.1.1.2 in manufacturing manual)

								Fasadglas 6mm					Fasadglas 8mm				
Glastjocklek	Isolersteg	Glaslist	Glasutrymme	Utvändig tätning	Skruv	Glasbärare	Förstärkt glasbärare	Utfyllnadsprofil horisontal	Utfyllnadsprofil verikalt	Hållarprofil	Glasutrymme	Inre tätning	Utfyllnadsprofil horisontal	Utfyllnadsprofil vertikalt	Hållarprofil	Glasutrymme	Inre tätning
A	B	C	D	E	F	G	G	H	I	J	K	L	H	I	J	K	L
18	50LK2LE	5014328	27	PX2	4,8x38	5012830		P-6	P-13	5019578, 5021895, 5021888	15	FG5	P-4	P-11	5019578, 5021895, 5021888	17	FG5
19			27	PX2				P-7	P-14		14		P-5	P-12		16	
20			27	PX1				P-8	P-15		13		P-6	P-13		15	
21		5015144	30	PX2				P-9	P-16		15		P-7	P-14		17	
22			30	PX2				P-10	P-17		14		P-8	P-15		16	
23			30	PX1				P-11	P-18		13		P-9	P-16		15	
24		507826	33	PX2				P-12	P-19		15		P-10	P-17		17	
25			33	PX2				P-13	P-20		14		P-11	P-18		16	
26			33	PX1				P-14	P-21		13		P-12	P-19		15	
25	50LK3LE	5014328	34	PX2	RUUVI4847 (4,8x47)	507557		P-13	P-20	5019578, 5021895, 5021888	15	FG5	P-11	P-18	5019578, 5021895, 5021888	17	FG5
26			34	PX2				P-14	P-21		14		P-12	P-19		16	
27			34	PX1				P-15	P-22		13		P-13	P-20		15	
28		5015144	37	PX2				P-16	P-23		15		P-14	P-21		17	
29			37	PX2				P-17	P-24		14		P-15	P-22		16	
30			37	PX1				P-18	P-25		13		P-16	P-23		15	
31		507826	40	PX2				P-19	P-26		15		P-17	P-24		17	
32			40	PX2				P-20	P-27		14		P-18	P-25		16	
33			40	PX1				P-21	P-28		13		P-19	P-26		15	
32	50LK4LE	5014328	41	PX2	RUUVI4854 (4,8x54)	507829		P-20	P-27	5019578, 5021895, 5021888	15	FG5	P-18	P-25	5019578, 5021895, 5021888	17	FG5
33			41	PX2				P-21	P-28		14		P-19	P-26		16	
34			41	PX1				P-22	P-29		13		P-20	P-27		15	
35		5015144	44	PX2				P-23	P-30		15		P-21	P-28		17	
36			44	PX2				P-24	P-31		14		P-22	P-29		16	
37			44	PX1				P-25	P-32		13		P-23	P-30		15	
38		507826	47	PX2				P-26	P-33		15		P-24	P-31		17	
39			47	PX2				P-27	P-34		14		P-25	P-32		16	
40			47	PX1				P-28	P-35		13		P-26	P-33		15	
39	50LK5LE	5014328	48	PX2	RUUVI4860 (4,8x60)	5015771	5015653		RT75	KP3 sahattu	15	RT50		RT75	KP3 sahattu	15	RT25
40			48	PX2							15	VT4				15	RT30
41			48	PX1							15	SG1				15	RT50
42		5015144	51	PX2							18	RT75				18	VT4
43			51	PX2							18	RT90				18	SG1
44			51	PX1						KP3	11	RT25				18	RT75
45		507826	54	PX2							14	RT30				21	RT90
46			54	PX2							14	RT50			KP3	14	RT25
47			54	PX1							14	VT4				14	RT30
46	50LK6LE	5014328	55	PX2	RUUVI4868 (4,8x68)	5020290	5019024		RT75	KP3	15	RT50		RT75	KP3	15	RT25
47			55	PX2							15	VT4				15	RT30
48			55	PX1							15	SG1				15	RT50
49		5015144	58	PX2				FG5	FG12		14	RT30				18	VT4
50			58	PX2							14	RT50				18	SG1
51			58	PX1							14	VT4	FG5	FG12		14	RT30
52		507826	61	PX2							17	SG1				17	RT50
53			61	PX2							17	RT75				17	VT4
54			61	PX1							17	RT90				17	SG1
53	50LK7LE	5014328	62	PX2	RUUVI4875 (4,8x75)	5020291	5019244	FG5	FG12	KP3	18	RT75	FG5	FG12	KP3	18	VT4
54			62	PX2							18	RT90				18	SG1
55			62	PX1							18	RT100				18	RT75
56		5015144	65	PX2				FG12	506614 + FG12		14	RT30				21	RT90
57			65	PX2							14	RT50	FG12	506614 + FG12		21	RT100
58			65	PX1							14	VT4				14	RT30
59		507826	68	PX2							17	SG1				17	RT50
60			68	PX2							17	RT75				17	VT4
61			68	PX1							17	RT90				17	SG1

GLASNINGSINSTRUKTIONER P50LP
GLAZING INSTRUCTIONS P50LP

(english version see page 10.1.3 in manufacturing manual)

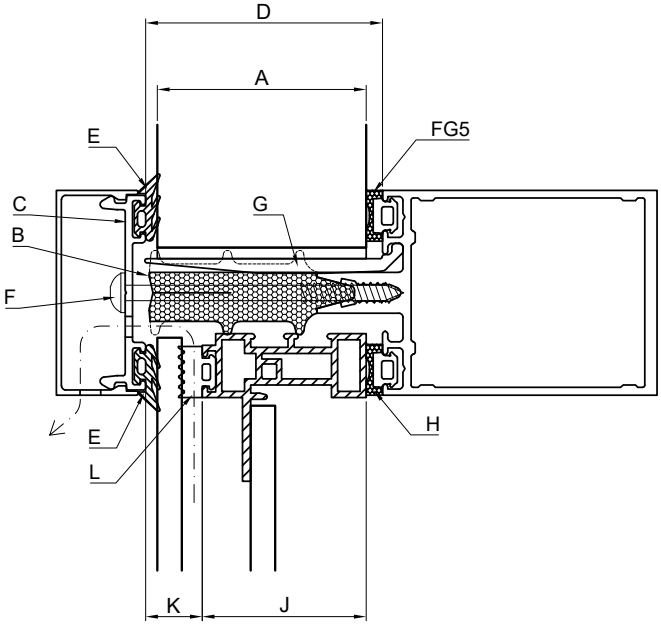


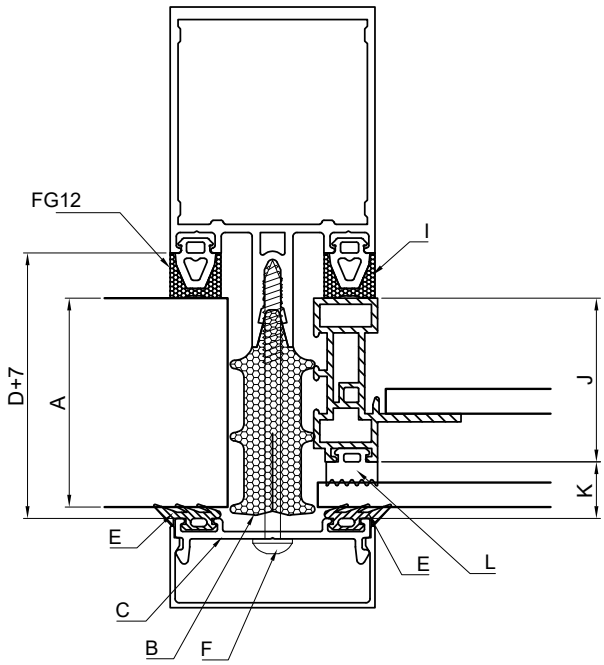


								Fasadglas 6mm					Fasadglas 8mm				
Glastjocklek	Isolersteg	Glaslist	Glasutrymme	Utvändig tätning	Skruv	Glasbärare	Förstärkt glasbärare	Utfyllnadsprofil horisontal	Utfyllnadsprofil verikalt	Hållarprofil	Glasutrymme	Inre tätning	Utfyllnadsprofil horisontal	Utfyllnadsprofil verikalt	Hållarprofil	Glasutrymme	Inre tätning
A	B	C	D	E	F	G	G	H	I	J	K	L	H	I	J	K	L
46	50LK6LP	5014328	55	PX2	RUUVI4868 (4,8x68)	5020290	5019024		RT75	KP3	15	RT50		RT75	KP3	15	RT25
47			55	PX2							15	VT4				15	RT30
48			55	PX1							15	SG1				15	RT50
49		5015144	58	PX2				FG5	FG12		14	RT30				18	VT4
50			58	PX2							14	RT50				18	SG1
51			58	PX1							14	VT4	FG5	FG12		14	RT30
52		507826	61	PX2							17	SG1				17	RT50
53			61	PX2							17	RT75				17	VT4
54			61	PX1							17	RT90				17	SG1
53	50LK7LP	5014328	62	PX2	RUUVI4875 (4,8x75)	5020291	5019244	FG5	FG12	KP3	18	RT75	FG5	FG12	KP3	18	VT4
54			62	PX2							18	RT90				18	SG1
55			62	PX1							18	RT100				18	RT75
56		5015144	65	PX2				FG12	506614 + FG12		14	RT30				21	RT90
57			65	PX2							14	RT50	FG12	506614 + FG12		21	RT100
58			65	PX1							14	VT4				14	RT30
59		507826	68	PX2							17	SG1				17	RT50
60			68	PX2							17	RT75				17	VT4
61			68	PX1							17	RT90				17	SG1

GLASNINGSINSTRUKTIONER P50LPE
GLAZING INSTRUCTIONS P50LPE

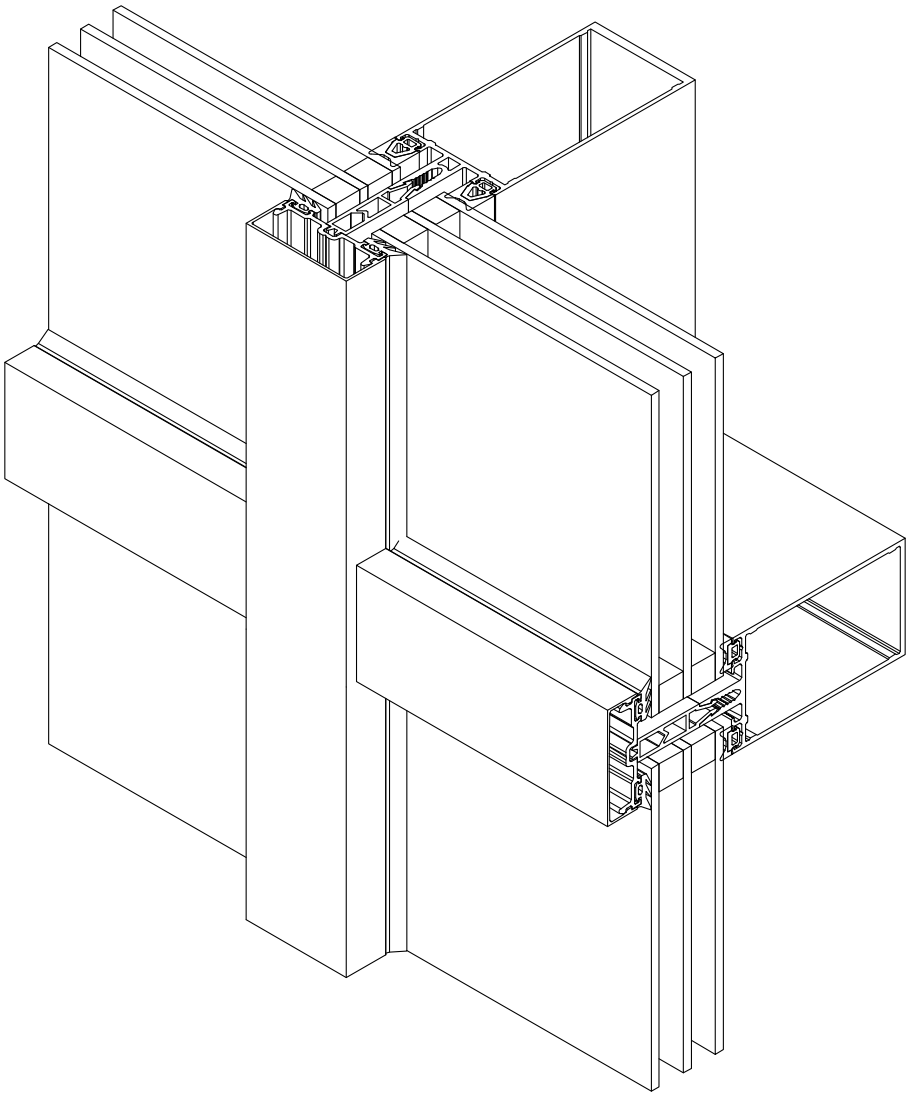
(english version see page 10.1.4 in manufacturing manual)

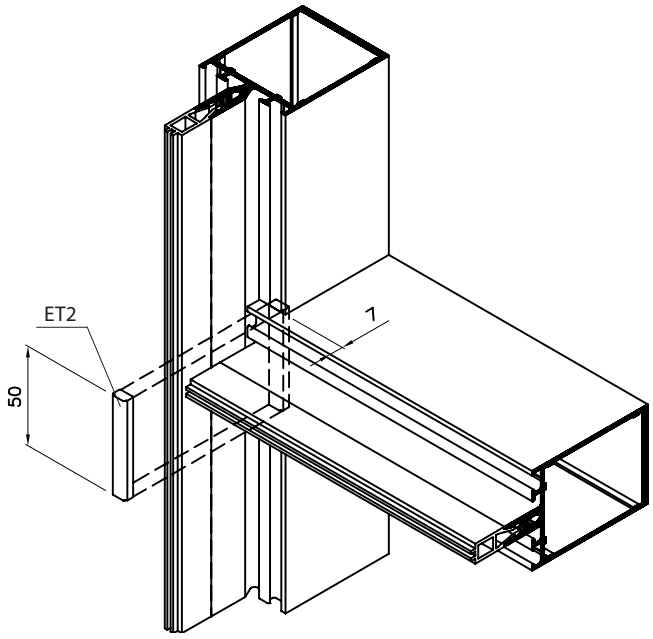




								Fasadglas 6mm					Fasadglas 8mm				
Glastjocklek	Isolersteg	Glaslist	Glasutrymme	Utvändig tätning	Skruv	Glasbärare	Förstärkt glasbärare	Utfyllnadsprofil horisontal	Utfyllnadsprofil verikalt	Hållarprofil	Glasutrymme	Inre tätning	Utfyllnadsprofil horisontal	Utfyllnadsprofil verikalt	Hållarprofil	Glasutrymme	Inre tätning
A	B	C	D	E	F	G	G	H	I	J	K	L	H	I	J	K	L
39	50LK6Foam	5014328	48	PX2	RUUVI4860 (4,8x60)	5015771	5015653		RT75	KP3 sahattu	15	RT50		RT75	KP3 sahattu	15	RT25
40			48	PX2							15	VT4				15	RT30
41			48	PX1							15	SG1				15	RT50
42		5015144	51	PX2							18	RT75				18	VT4
43			51	PX2							18	RT90				18	SG1
44			51	PX1						KP3	11	RT25				18	RT75
45		507826	54	PX2							14	RT30				21	RT90
46			54	PX2							14	RT50			KP3	14	RT25
47			54	PX1							14	VT4				14	RT30
46	50LK6Foam	5014328	55	PX2	RUUVI4868 (4,8x68)	5020290	5019024		RT75	KP3	15	RT50		RT75	KP3	15	RT25
47			55	PX2							15	VT4				15	RT30
48			55	PX1							15	SG1				15	RT50
49		5015144	58	PX2				FG5	FG12		14	RT30				18	VT4
50			58	PX2							14	RT50				18	SG1
51			58	PX1							14	VT4	FG5	FG12		14	RT30
52		507826	61	PX2							17	SG1				17	RT50
53			61	PX2							17	RT75				17	VT4
54			61	PX1							17	RT90				17	SG1
53	50LK6Foam	5014328	62	PX2	RUUVI4875 (4,8x75)	5020291	5019244	FG5	FG12	KP3	18	RT75	FG5	FG12	KP3	18	VT4
54			62	PX2							18	RT90				18	SG1
55			62	PX1							18	RT100				18	RT75
56		5015144	65	PX2				FG12	506614 + FG12		14	RT30				21	RT90
57			65	PX2							14	RT50	FG12	506614 + FG12		21	RT100
58			65	PX1							14	VT4				14	RT30
59		507826	68	PX2							17	SG1				17	RT50
60			68	PX2							17	RT75				17	VT4
61			68	PX1							17	RT90				17	SG1

KLINKADE MÖTEN
LAP JOINT

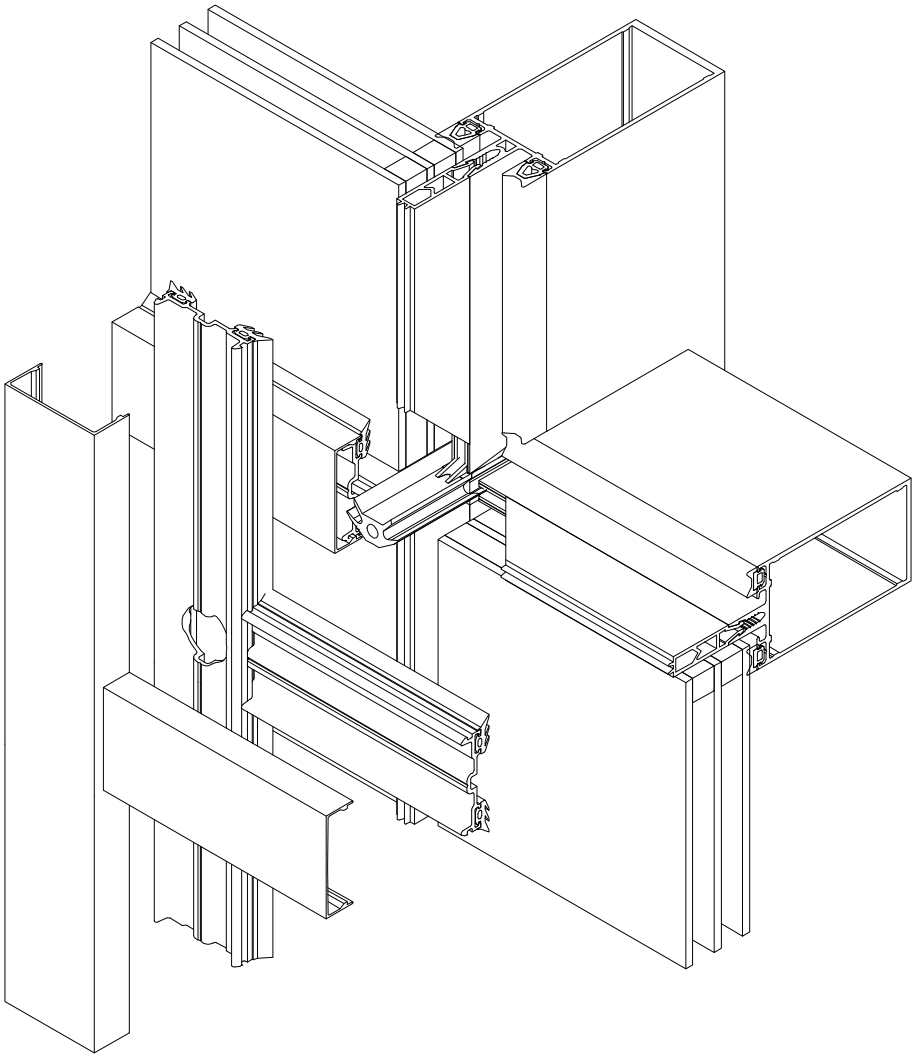




Den horisontella profilen möter den vertikala i ett klinkad möte. Det förseglas med tätning ET2 eller tätningsmassa.

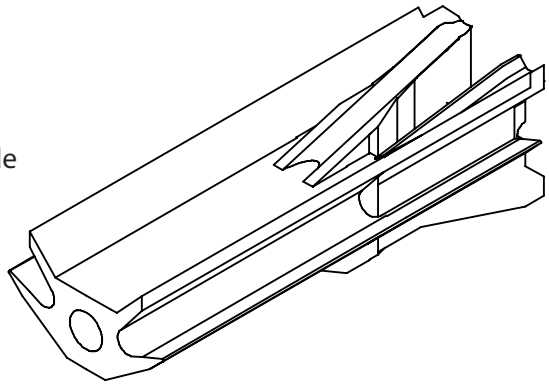
The horizontal profile is fixed to the vertical with a overlap joint. The joint is sealed with sealing ET2 or sealing compound.

KLINKADE MÖTEN
LAP JOINT



VENTILATION AV GLASFALS VID ANVÄNDNING AV ISOLERGLAS

Ventilation utförs genom att en ventilationsprofil fästs i skärningspunkten mellan de vertikala profilerna och de horisontella profilerna, förutom fasadens underkantl höga partier skall det sitta ventilation med max cc7000mm och i höjd med de horisontella profilerna.

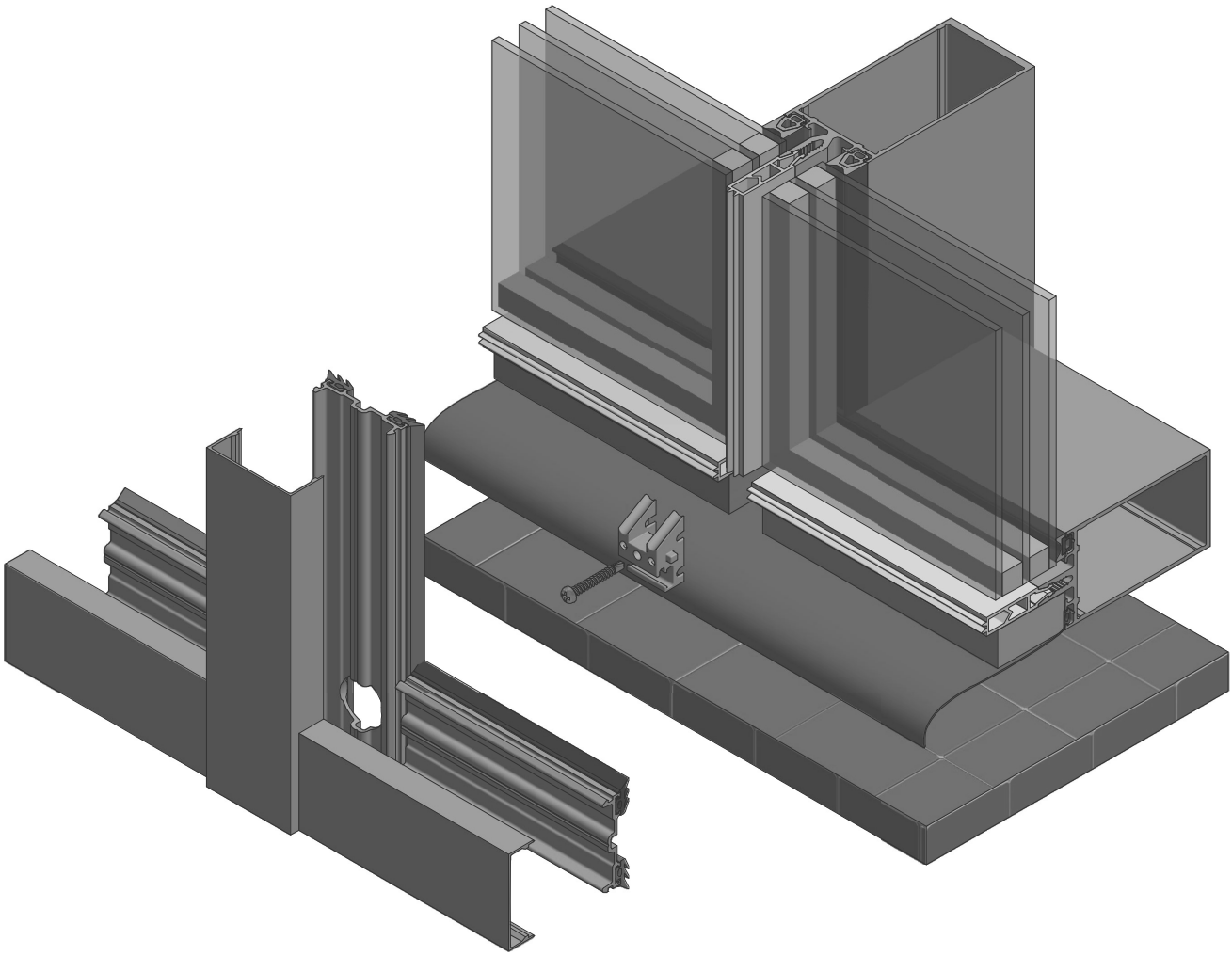


50KOURU2

VENTILATION OF REBATE SPACE WHEN USING INSULATING GLASS

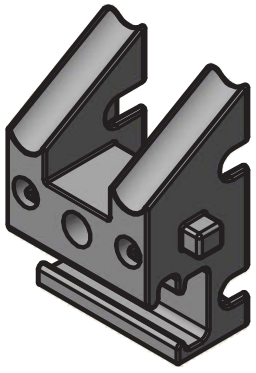
The ventilation is made in the cross section of each vertical and horizontal profile, except the in the bottom part, by means a drainage flute. In high facades the drainade flute is installed with max. 7 m intervals in level with the horizontal profile.

FÖRSEGLA DEN NEDRE DELEN AV FASADPARTIET
SEALING THE LOWER PART OF THE FACADE STRUCTURE



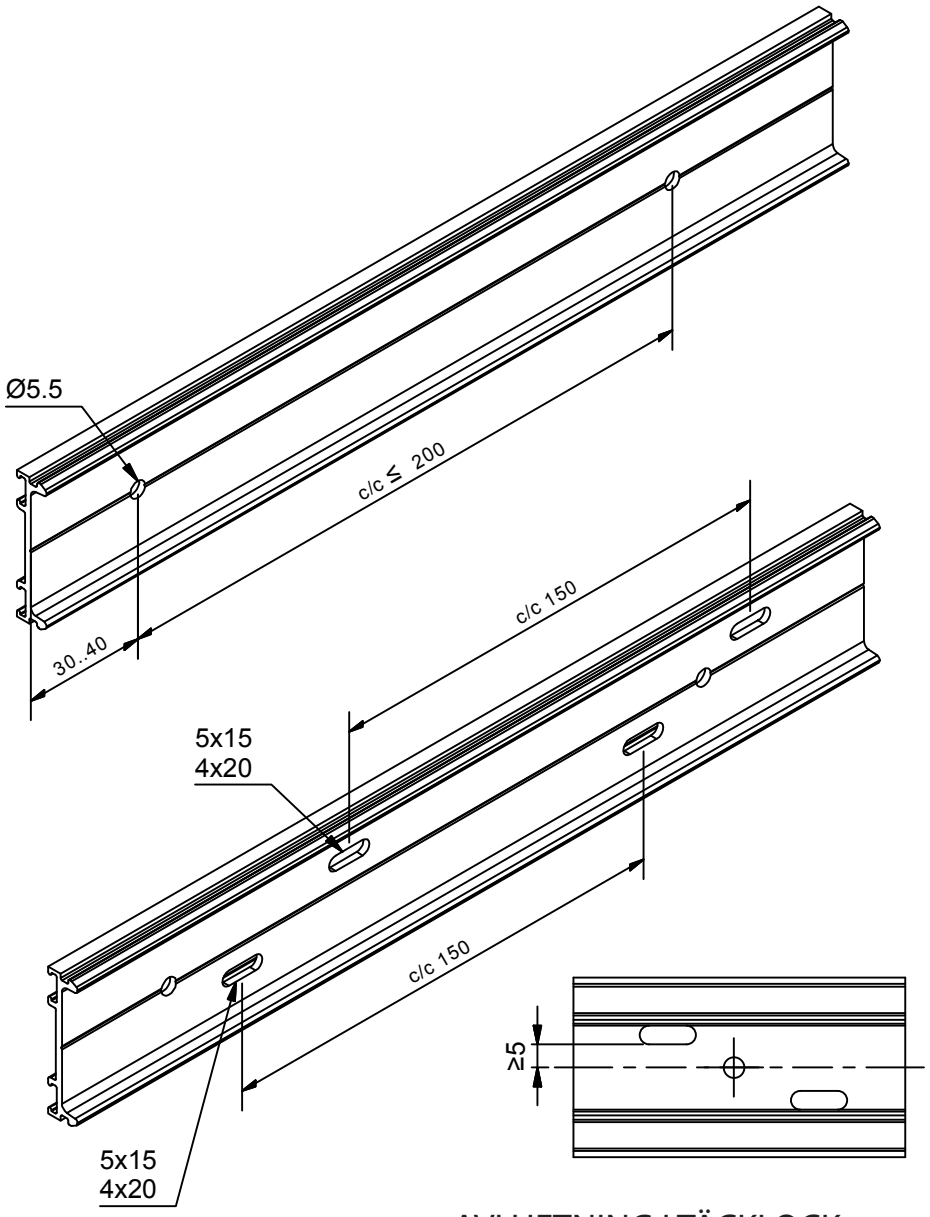
Tätning av den nedre delen av fasad görs med tätningsbit. Tätningsmassa måste placera bakom tätningsbit.

The sealing of the lower part of the facade is done with sealing piece. Sealing compound must be put behind the sealing piece.



P50LTK10

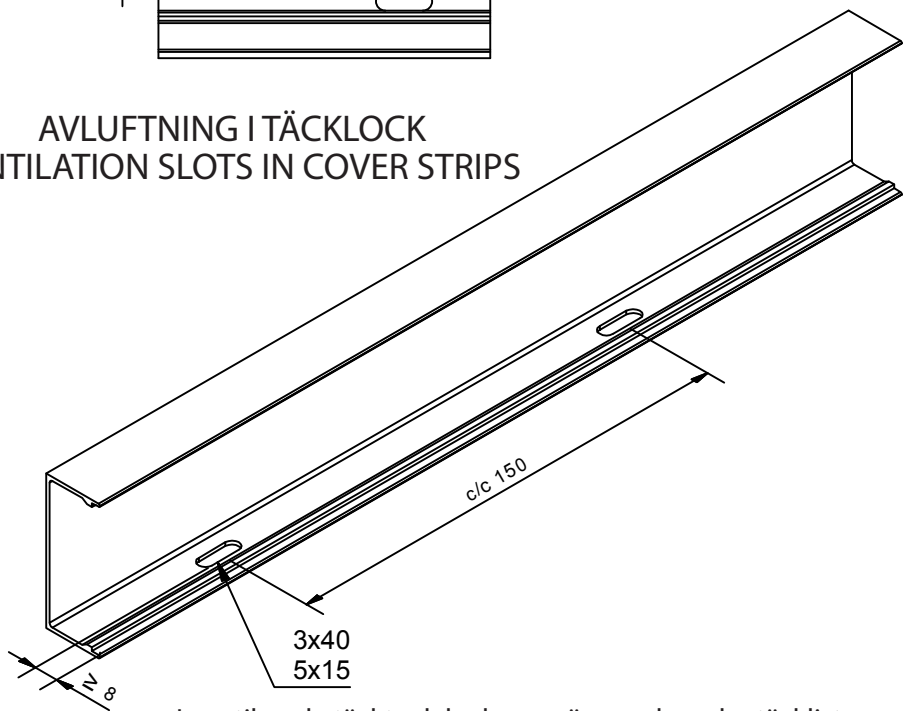
INFÄSTNINGS- OCH VENTILATIONSHÅL I GLASLISTEN
FIXING AND VENTILATION HOLES IN PRESSURE PLATE



Fästhål:
Ø5.5 mm från 40 mm från ändarna med 200 mm indelning.
Glasningsskruvar Ø4.8 mm rostfri plåtskruv med cylindriskt eller sexkantigt huvud

Ventilations- och avvattningshål
Vid isolerruta behövs inga ventilationshål i glaslister eftersom
stommen har gjorts med omlottskarvar.
Vid den täckta delen görs 5x15 mm hål med 150 mm delning för ventilation i den täckta delens neder- och överkant.

AVLUFTNING I TÄCKLOCK
VENTILATION SLOTS IN COVER STRIPS



I ventilerade täckta delar borras övre och nedre täcklistens hål på undersidan från och med 55 mm från ändarna med 150 mm:s delning.

CE MÄRKNING AV PURSO P50L FASADSYSTEM ENLIGT PRODUKTSTANDARD EN 13830:2003

CE märkning av byggnadsprodukter

CE märkning är ett EU gemensamt system för att certifiera sina byggnadsprodukter.
Genom att CE märka sina produkter visar tillverkarna att man följer den spplicerbara harmoniserade produktstandarden eller så kan man intyga detta med ett typgodkännande.
Standarden för byggnader och byggelement definieras på en nationell nivå.

Produktstandard EN 13830:2003 krav för fasader:

Motstånd mot vindlaster:
Facades shall be rigid enough to withstand planned wind loads and transfer them back onto the building frame.
The maximum allowed deflection of frames is L/200 or up to 15 mm.
The allowed deflection on glass panes is L/300. (The product standard does not require this; it is a recommendation from specialty glass industry.)

Egenlast:
Fasaden skall motstå sin egenvikt och fördela den till byggnadsstommen.
Maximal nedböjning av de horisontella profilerna pga vikten av profil/glas är L/500 eller upp till 3 mm.

Lufttäthet:
Lufttätheten gällande fasader testas enligt Standard EN 12153.
Standarden är baserad på Standard EN 12152.
Purso P50L fasadsystem följer kraven enligt klassen AE1050.

Vattentäthet:
Vattentätheten gällande fasader testas enligt Standard EN 12155.
Standarden är baserad på Standard EN 12154.
Purso P50L fasadsystem följer kraven enligt klassen RE1050.

Horisontella laster:
Fasader skall stå emot de olika horisontella lasterna dom utsätts för.
Rörelser i byggnaden och thermiska rörelser:
Designen av fasaden skall tillåta rörelser i byggnadsstommen samt thermiska rörelser.

Thermisk transmittans
Den thermiska transmittans coefficienten U_{cw} för fasader skall definieras enligt Standard EN 13947.
Följande faktorer påverkar thermisk transmittans:
- Storlek på konstruktionen (aluminium).
- U_g värdet på glas samt dess distanslist.
- Eventuella fyllningar och dörrar.

Övriga vanliga efterfrågade specifikationer:

- Isolering för luftburet ljud
- Motståndskraft mot yttre påverkan
- Motståndskraft mot brand

CE märkningsrelaterade krav att beakta i Purso P50 fasadsystem

- De maximalt tillåtna statikavvikelserna gällande vindlast följer Standard EN 13830:2003.
- Överlappande möten post/spröjs skall användas.
- Tätningar FG5 och FG12 skall användas.

Tillverkarens skall bifoga följande:

- Egenkontroll (FPC)
- Prestandadeklaration (DoP)
- CE märkning skall fästas på partiet.

En uppdaterad version av produktstandarden EN 13830 har blivit publicerad: EN 13830:2015. Dock, eftersom den inte har publicerats i "Official Journal of the European Union" så kan den inte användas för CE märkning (30 mars 2019).
En av uppdateringarna i den nya standarden avser mindre hårda krav på avvikelser i statiken.

CE MARKING OF PURSO P50L FACADE SYSTEMS IN ACCORDANCE WITH PRODUCT STANDARD EN 13830:2003

CE marking of construction products

CE marking is a common EU-wide system for certifying the characteristics of construction products.
By CE marking, a manufacturer declares that their product complies with the applicable harmonised product standard or with a European Technical Approval.
The standards applicable for buildings and building elements are defined on a national level.

Product Standard EN 13830:2003 requirements for facades:

Resistance to wind load:
Facades shall be rigid enough to withstand planned wind loads and transfer them back onto the building frame.
The maximum allowed deflection of frames is L/200 or up to 15 mm.
The allowed deflection on glass panes is L/300. (The product standard does not require this; it is a recommendation from specialty glass industry.)

Resistance to dead weight:
The facade shall withstand its dead weight load and transfer it onto the building frame.
The maximum allowed deflection of horizontal frames due to the weight of the structures (e.g. glass weight) is L/500 or up to 3 mm.

Air permeability:
The air permeability of facades is tested in accordance with Standard EN 12153. The classification is based on Standard EN 12152.
Purso P50L facade systems comply with air permeability class AE1050 requirements.

Watertightness:
The watertightness of facades is tested in accordance with Standard EN 12155. The classification is based on Standard EN 12154.
Purso P50L facade systems comply with watertightness class RE1050 requirements.

Resistance to horizontal loads:
Facades shall withstand the variable horizontal loads they are subjected to.
Building movement and thermal movement:
Facade design shall take into account structural thermal movement and building movement.

Thermal transmittance:
The thermal transmittance coefficient U_{cw} of facades shall be defined in accordance with Standard EN 13947.
The following factors influence thermal transmittance:
- The distribution and size of aluminium frames.
- The U_g value of glass and the type of strip.
- Possible filling pieces and opening doors.

Other characteristics commonly required from facades:

- Airborne sound insulation
- Resistance to impact
- Resistance to fire

CE marking-related requirements to take into account in the Purso P50L facade design

- The maximum allowed deflection caused due to the wind load complies with Standard EN 13830:2003.
- Lap joint technique shall be used.
- Frame sealings FG5 and FG12.

Manufacturer's actions:

- Factory production control (FPC)
- Declaration of performance (DoP)
- The manufacturer must attach the CE mark.

An updated version of Product standard EN 13830 has been published: EN 13830:2015. However, as it has not yet been published in the Official Journal of the European Union, it cannot be used in CE marking (as of 30 March 2019). One of the updates in the new standard version concerns less strict deflection conditions.

TEKNISK INFORMATION

03/2019

Profiler

- Aluminiumlegering vanligvis EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- Thermiska krypningar skapat av temperaturförändringar måste beaktas i fasadens design
- Den thermiska expansionscoefficiensen för aluminium är $24x10^{-6}$/K
- Formtolerans på profiler enligt EN 755-9 eller EN 12020-2
- Legeringen är utmärkt för anodisering
- Profilerna levereras i längder om 6,6 m, andra längder levereras på beställning

Ytbehandling

Anodisering

Anodisering är en elektrokemisk metod för att öka tjockleken på det naturliga oxidlagret av aluminium. Anodisering skapar en hård yta tålig mot mekaniskt slitage med utmärkta egenskaper mot väder och vind.

Pulverlack

När man pulverlackar så applicerar man ett pulver som tränger in i aluminiumets porer som man sedan smälter i en ugn till en slät och tålig yta. Innan lackning så förbehandlas profilerna för att säkerställa hållbarheten. Normalt lackas profilerna i RAL-kulörer, dock så går det bra att erhålla lack i andra färgskalor.

Tätningar

Material: EPDM-gummi
Colour: Svart

TECHNICAL INFORMATION

Profiles

- Aluminium alloy usually EN-AW 6063 T5
  $Rp_{p0,2}$ min = 130 N/mm²
  R_m min = 175 N/mm²
  E = 70000 N/mm²
- Thermal transitions caused by changes in temperature must be taken into account in the design
- Thermal expansion coefficient of aluminium is $24x10^{-6}$/K
- Shape tolerances of profiles according to EN 755-9 or EN 12020-2
- Alloy is well suited for anodizing
- Delivery length of profiles normally 6,6 m, other lengths available on request

Surface treatment

Anodizing

Anodizing is an electrochemical method for increasing the thickness of the natural oxide layer of aluminium. Anodizing forms a hard, mechanical wear-resistant surface with excellent weather resistance.

Powder Coating

In powder coating the powder is injected into the surface of the profiles, which then is melted in a furnace into a durable and smooth surface. Before painting, the profiles are pre-processed, in order to ensure the endurance of the coating. Normally profiles are painted with RAL color shades, but other colors are also possible.

Gaskets

Material: EPDM-rubber
Colour: black

Valmistus, myynti ja tekninen neuvonta
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