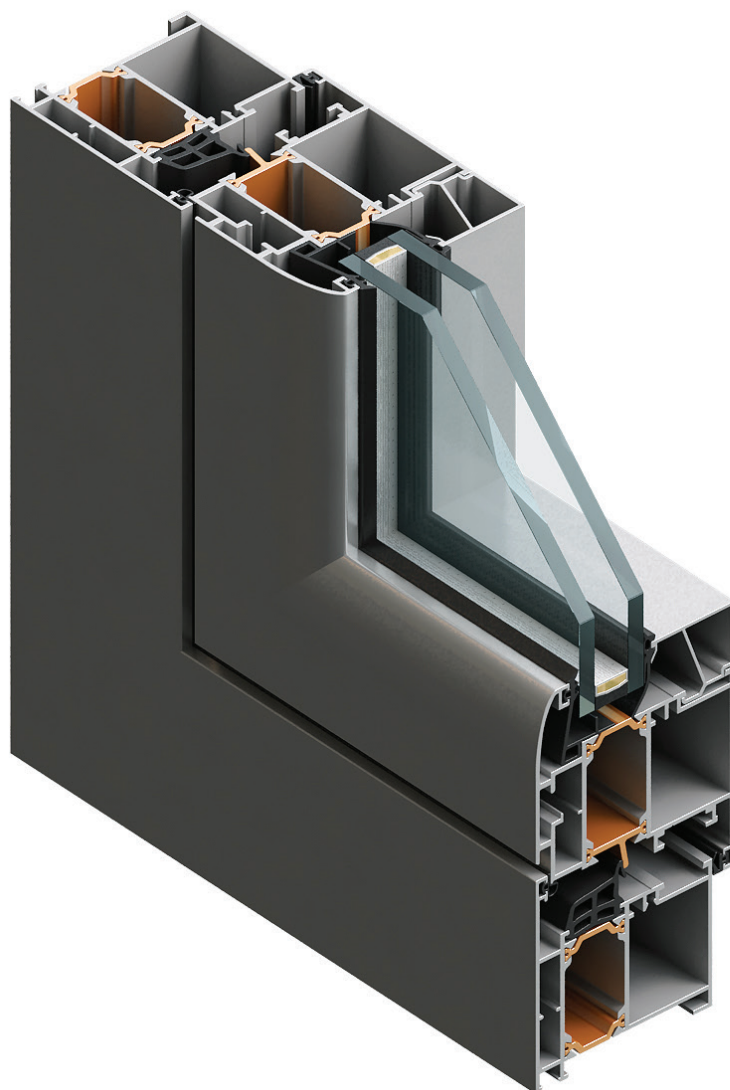


FEAL



TERM0 65

PROZORI I VRATA
WINDOWS AND DOORS

Knjiga A / *Book A*

SADRŽAJ CONTENT

01	ZNAČAJKE SISTEMA	203.01.000-007
01	SYSTEM CHARACTERISTICS	203.01.000-007
02	ISPITIVANJA I CERTIFIKATI	203.02.000-024
02	TESTING AND CERTIFICATES	203.02.000-024
03	PROFILI	203.03.000-063
03	PROFILES	203.03.000-063
04	PRIKAZ STAKLJENJA	203.04.000-007
04	GLAZING	203.04.000-007
05	PRESJECI	203.05.000-157
05	CROSS SECTION	203.05.000-157

Značajke sistema

System characteristics

OPIS SISTEMA:

Sistem TERMO 65 se koristi za izradu prozora (otvaranje unutra i vani), vrata (otvaranje unutra i vani) i fiksnih stijena.

To je sistem profila s prekinutim termičkim mostom, osnovne ugradbene dubine dovratnika 65 i 73 mm. Pored osnovne varijante dovratnika/krila s ravnim linijama, moguće su izvedbe dovratnika/krila i sa zaobljenim vanjskim linijama.

Prekid termičkog mosta se postiže poliamidnim trakama širine 22 mm.

Radi dodatnog poboljšanja termičkih karakteristika profila, u komore se ugrađuju profili od XPS -a (ekstrudirani polistiren - $\lambda=0.035 \text{ W/m}^2\text{K}$) i takvi profili dobivaju u nazivu slovo F.

Brtvljenje je izvedeno brtvama EPDM kvalitete.

Mogući tipovi otvaranja su: otklopno, zaokretno, zaokretno otvaranje vani, zaokretno oko srednje ose, otklopno-zaokretno, vrata s otvaranjem prema unutra i vani.

Sistem je kompatibilan sa fasadnim sistemima 50FK/FS i 60K/S.

Mogućnost odabira profila sa žlijebom 16/13.

Okov koji se ugrađuje u sistem je standardni za eurožlijeb 15/20 i za žlijeb 16/13.

Karakteristike sistema:

-materijal.....	EN AW-6060
-max.masa krila.....	130 kg
-moguća debljina ispune.....	9-59 mm
-zrakopropusnost.....	EN 12207 (klasa 4)
-vodonepropusnost.....	EN 12208 (klasa E900)
-zaštita od buke.....	DIN 4109 (Rw=38 dB)
-protuprovalnost.....	EN 1627 (RC2, RC3)
-proračun U_w koeficijenta.....	DIN EN ISO 10077-2 ($\geq 1,3 \text{ Wm}^2/\text{K}$)
-otpornost na udar vjetra.....	EN 12210 (klasa C4/B4)
-materijal za brtvljenje (EPDM).....	DIN 7863
-površinska obrada.....	DIN 17611
-kontrola kvalitete.....	DIN EN ISO 9001

SYSTEM DESCRIPTION:

The system TERMO 65 is used for production the windows (inward and outward opening), doors (inward and outward opening) and fixed glass wall.

It is a profiles system with thermal break, basic mounting depth of the frame 65 and 73 mm.

In addition to the basic variant of the frame /sash with flat lines, it is possible performance frame/sash with the rounded outside lines.

The thermal bridge break is achieved with polyamide strips of 22 mm width.

Because of additional improvement of thermal characteristics the profiles, in the chamber stick in XPS -a (extruded polystyrene - $\lambda=0.035 \text{ W/m}^2\text{K}$) and that profiles are given the name F.

The sealing are made with the gasket EPDM quality .

Possible types of opening: tilt, turn, turn outward opening, turn around middle axis, tilt and turn, door with outward and inward opening.

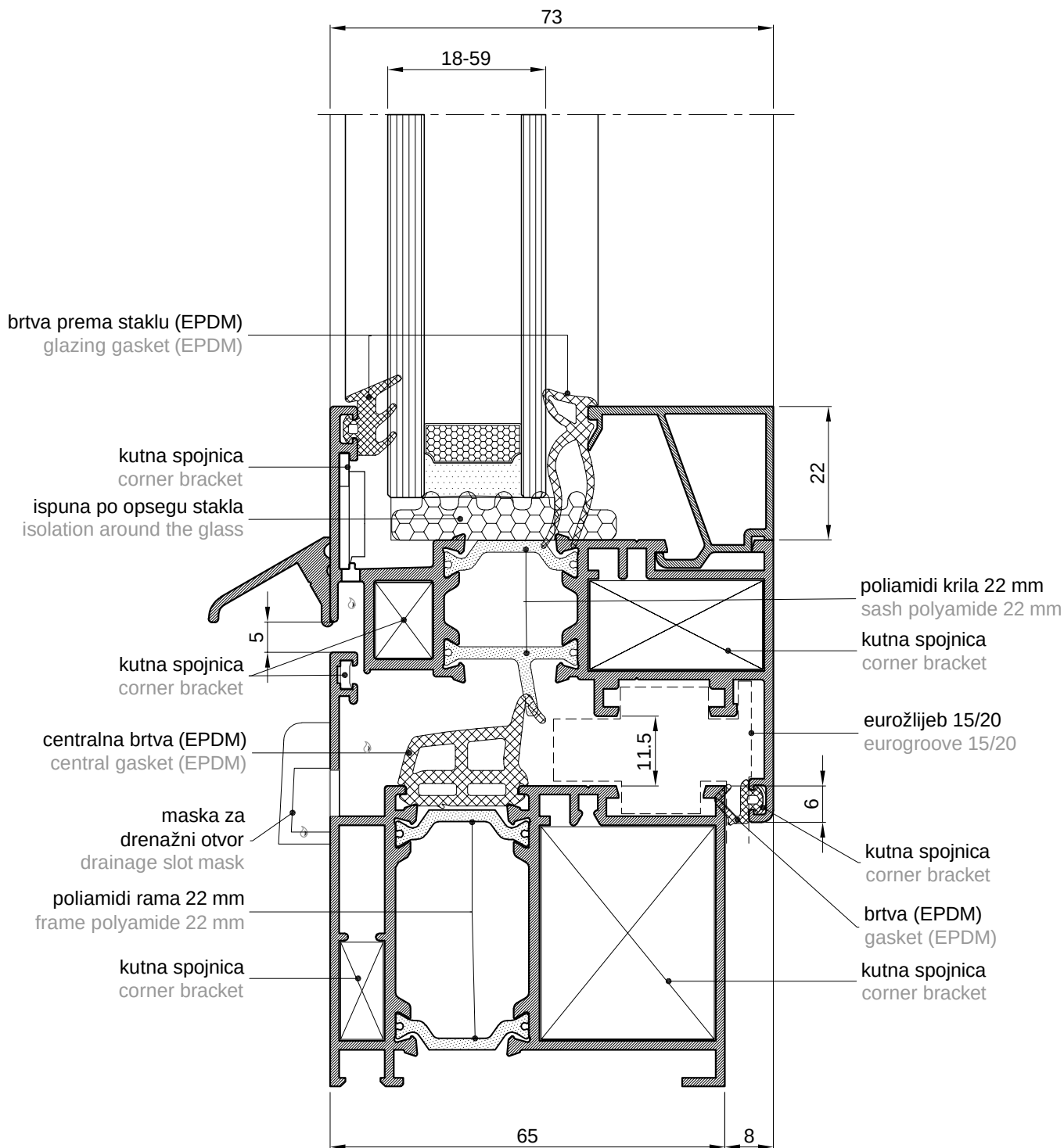
System is compatible with facade systems 50FK/KS i 60K/S.

Possibility selection the profile with groove 16/13.

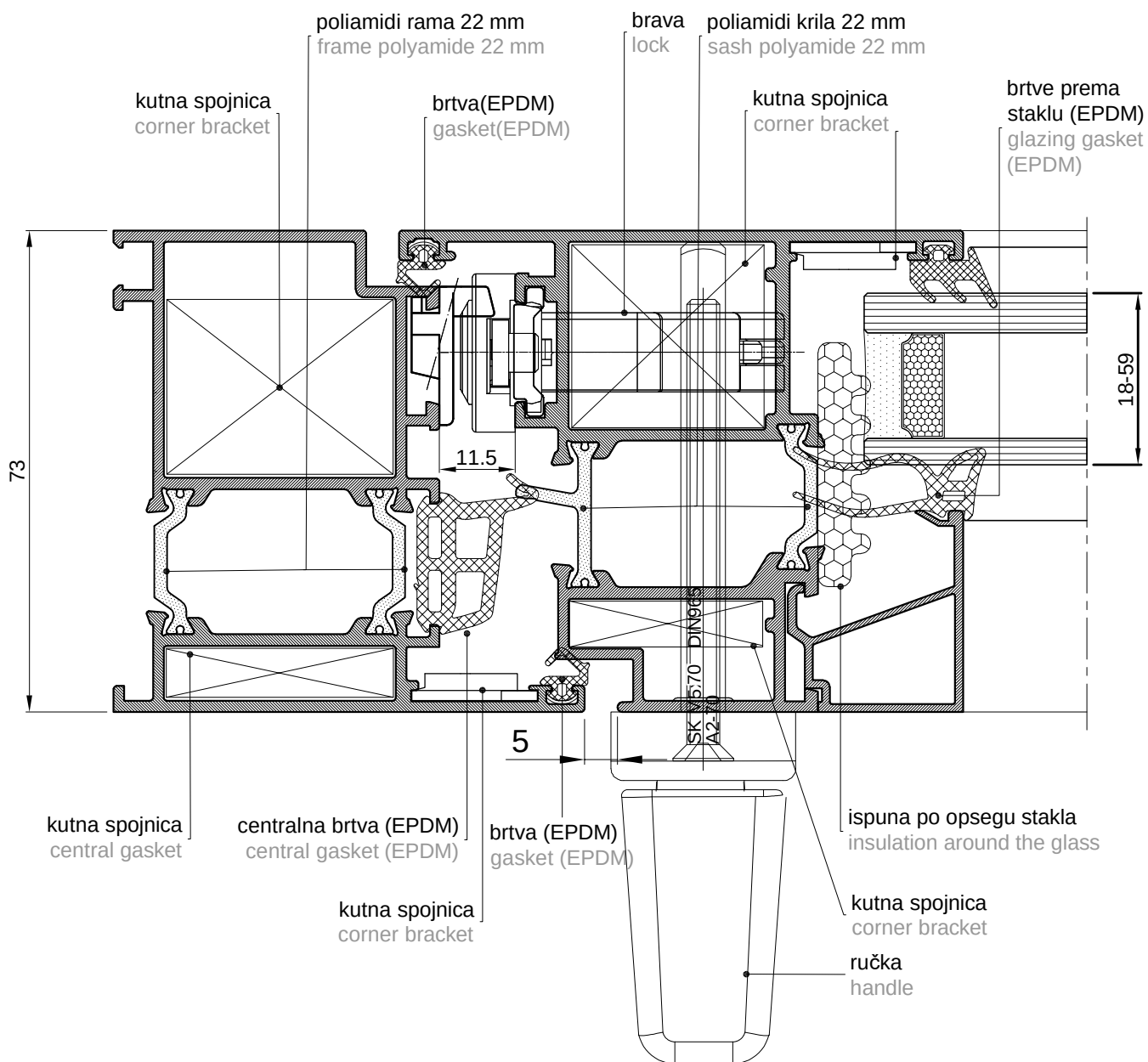
The hardware which are installation in the this system is standard for euro grove and for groove 16/13.

System characteristics:

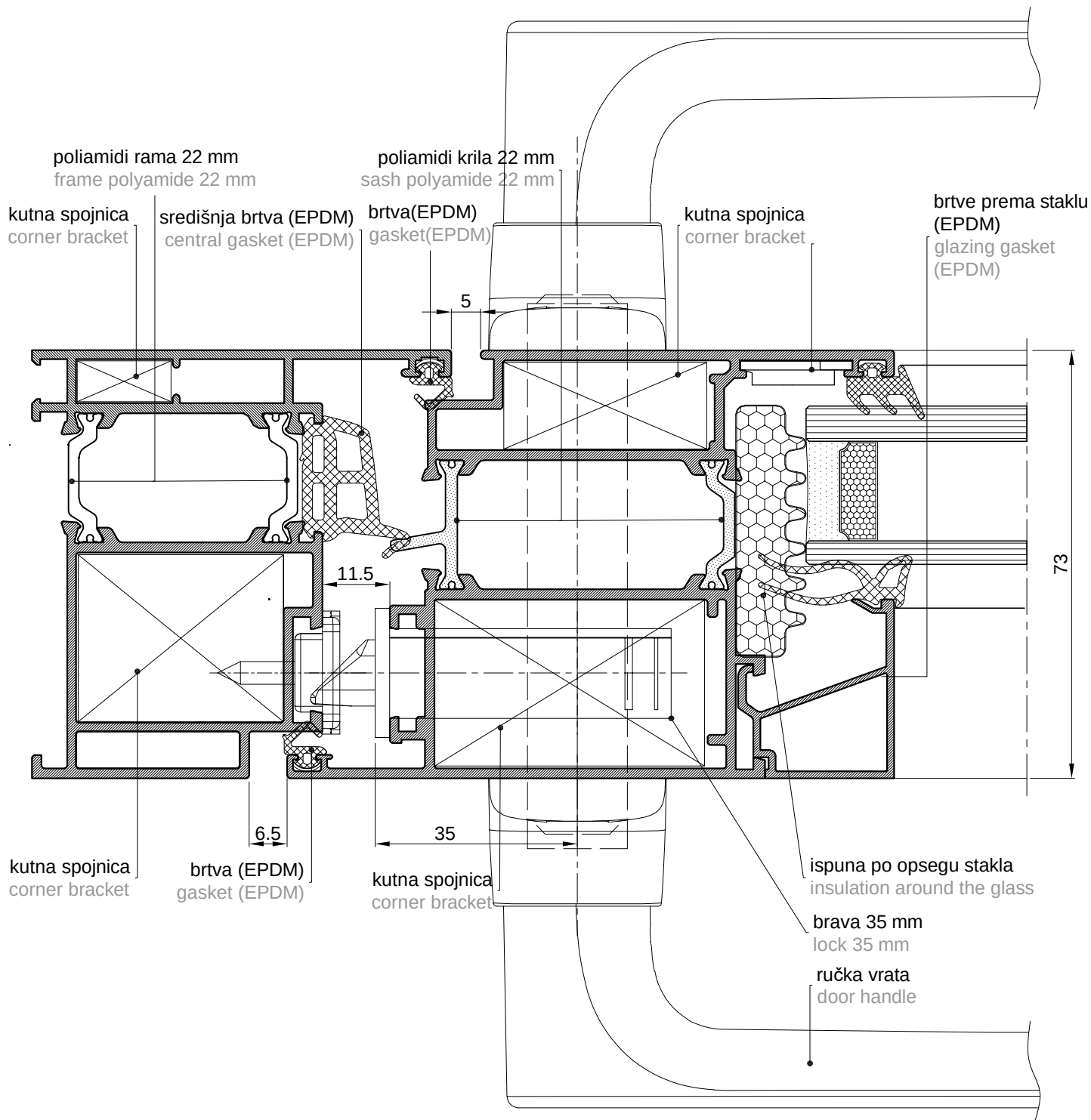
-material.....	EN AW-6060
-mass OZ sash.....	130 kg
-possible infill depth.....	9-59 mm
-air permeability.....	EN 12207 (class 4)
-watertightness.....	EN 12208 (class E900)
-airborne sound insulation.....	DIN 4109 (Rw=38 dB)
-protection against burglary.....	EN 1627 (RC2, RC3)
- U_w calculation.....	DIN EN ISO 10077-2 ($\geq 1,4 \text{ Wm}^2/\text{K}$)
-wind resistance.....	EN 12210 (class C4/B4)
-sealing material (EPDM).....	DIN 7863
-surface processing.....	DIN 17611
-quality control.....	DIN EN ISO 9001



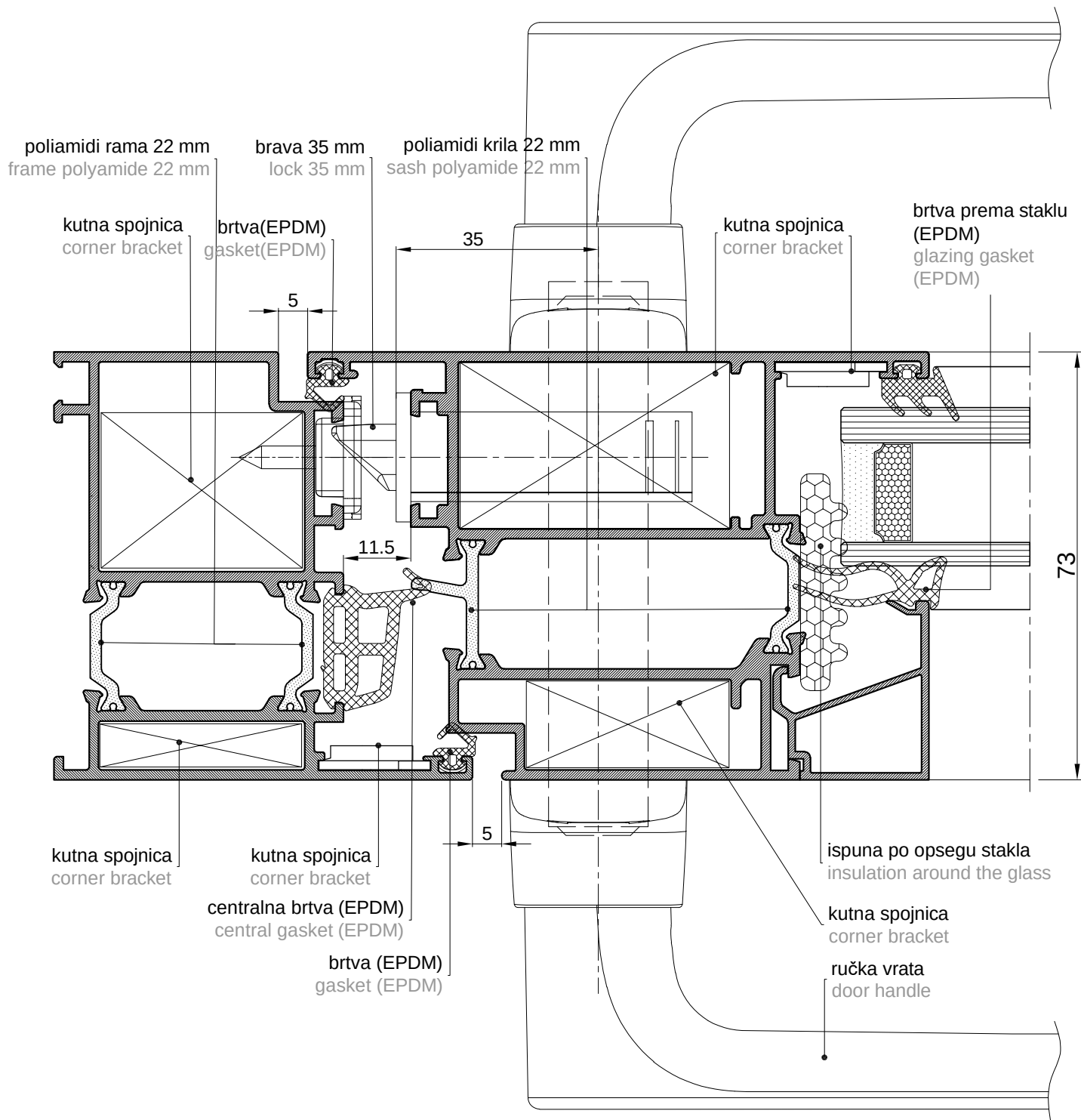
Sistem ravnih linija prozora Straight lines window system



Sistem ravnih linija vrata Straight lines door system



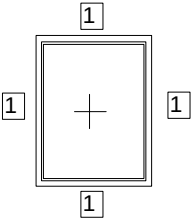
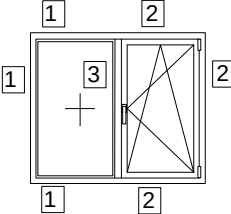
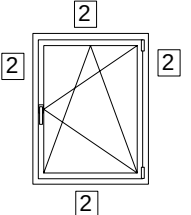
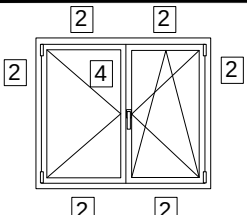
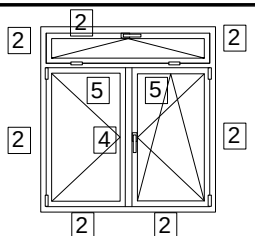
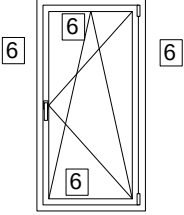
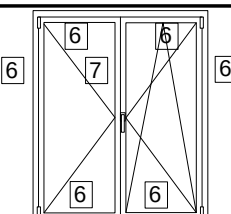
Sistem ravnih linija vrata Straight lines door system



Ispitivanja i certifikati

Testing and certificates

ISPITIVANJA I CERTIFIKATI TESTING AND CERTIFICATES							
Vrsta ispitivanja Type of test	Jednokr. prozor Single window	Dvokr. prozor Double window	Dvokr. prozor s nadsvjetlom Double window with vent.	Prozor, otv. oko srednje vodor. ose Window, horizontal pivot opening	Jed.balk.vrata Single balcony door	Dvo.balk. vrata Double balcony door	Jedokr. prozor s fiksnim dijelom Single window with fixed part
Zrakopropusnost Air permeability EN12207	class 4	class 4	class 4	class 3	class 4	class 4	class 4
Vodonepropusnost Watertightness EN 12208	E900	9A	9A	E900	8A	9A	8A
Vjetronepropusnost Resistance to wind EN 12210	C4/B4	C4/B4	C4/B4	C4/B4	C4/B4	C3/B3	C5/B5
Buka Rw Airborne sound reduction EN ISO 717-1	38 dB						
Protuprovalnost Protection against burglary EN 1627	RC2, RC3	RC2			RC2		
Otpornost na istezanje, torziju... Resistance at strain, torsion...	+				+		
Pendtl test Impact resistance test EN 13049	4						
Toplinska provodljivost prozora, u skladu s EN ISO 10077-1, je Uw=1.4 [W/m²K] Thermal transmittance of windows, in accordance with EN ISO 10077-1, Uw=1.4 [W/m²K]							

		Uf1 W/m2K	Uf2 W/m2K	Uf3 W/m2K	Uf4 W/m2K	Uf5 W/m2K	Uf6 W/m2K	Uf7 W/m2K	Ug W/m2K	Uw W/m2K
	-fiksno -fixed field (1230x1480)	2.1 * 2.7							0,7 1,1	≥1.1 * ≥1,2 ≥1,4 * ≥1,5
	-otkl.-zaok. s fiks. dijelom -tilt & turn with fixed field (1600x1480)	2.1 * 2.7	2.5 * 2.9	2.4 * 2.7					0,7 1,1	≥1.3 * ≥1.4 ≥1.6 * ≥1.7
	-otklopno -zaokretno - tilt & turn window (1230x1480)		2.5 * 2.9						0,7 1,1	≥1.4 * ≥1.5 ≥1.6 * ≥1.8
	-dvokrilno otklopno -zaokretno -double sash tilt & turn window (1600x1480)		2.5 * 2.9		2.7 * 2.9				0,7 1,1	≥1.5 * ≥1.6 ≥1.7 * ≥1.9
	-dvokrilno otkl. -zaok. s nadsvijetlom -double sash tilt & turn with overhead op. (1600x1980)		2.5 * 2.9		2.7 * 2.9	2.5 * 2.8			0,7 1,1	≥1.5 * ≥1.7 ≥1.8 * ≥1.9
	-balkonska vrata -balcony door (1100x2200)						2.3 * 2.8		0,7 1,1	≥1.3 * ≥1.5 ≥1.6 * ≥1.8
	-dvokrilna balkonska vrata -double balcony door (1600x2200)						2.3 * 2.8	2.4 * 2.9	0,7 1,1	≥1.4 * ≥1.6 ≥1.7 * ≥1.9

* Uf i Uw izračuni bez XPS ispuna u profilima

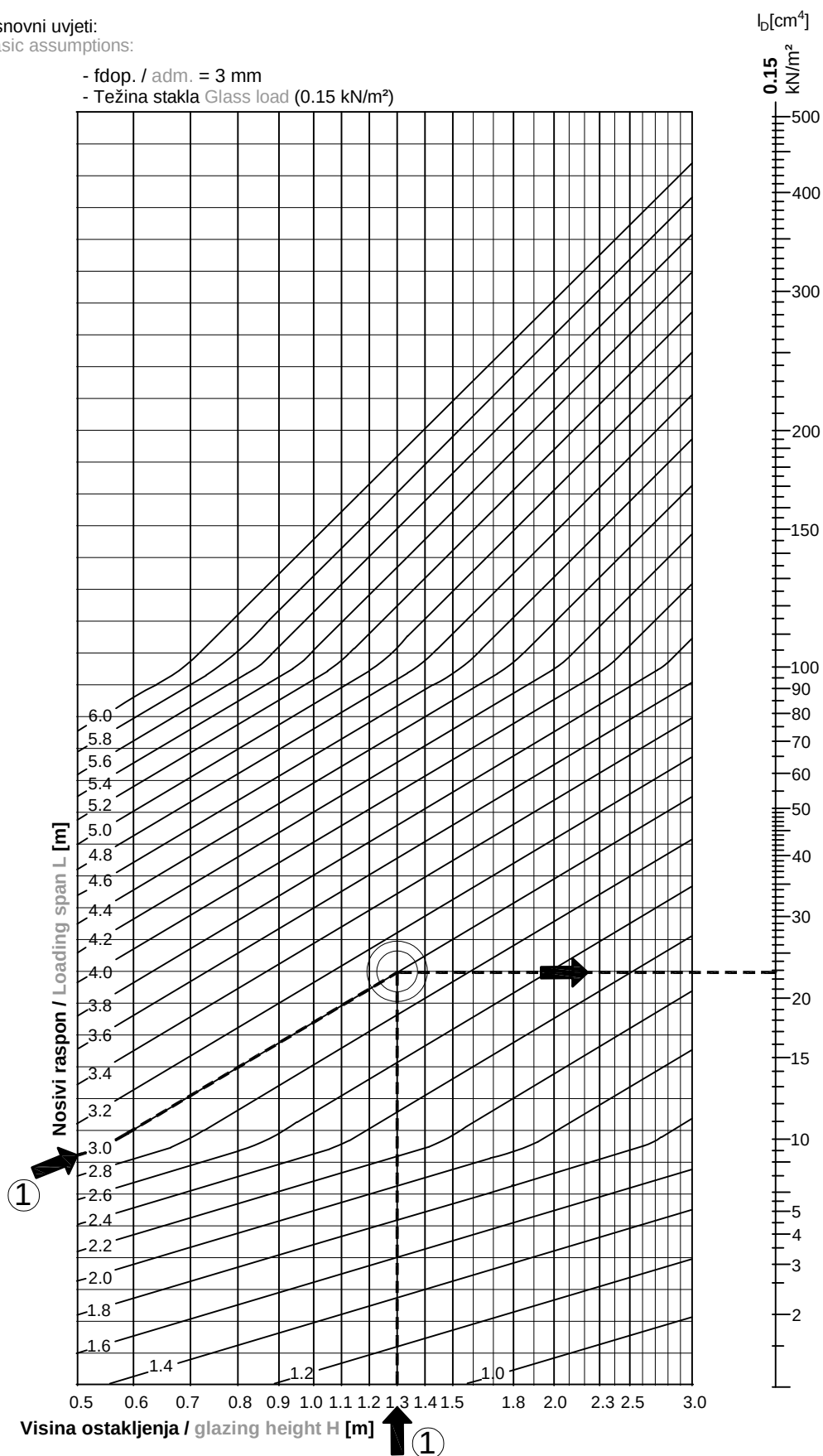
* Uf i Uw calculations without XPS isolation in the profiles

Proračun koeficijenta prolaza topline
Calculation of thermal transmittance<http://termika.feal.ba/>

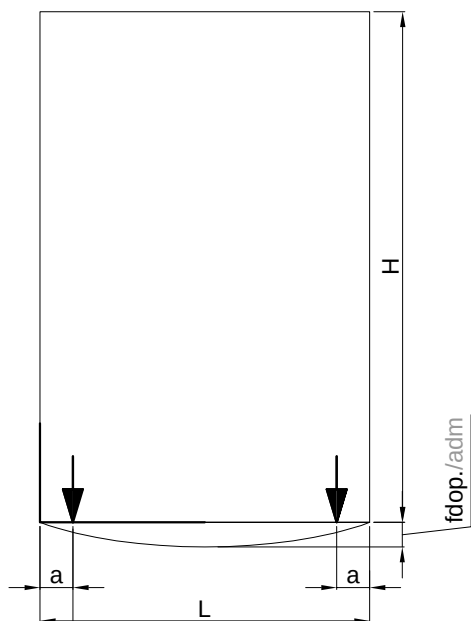
Statički dijagram težina stakla Structural diagram glass load

Osnovni uvjeti:
Basic assumptions:

- fdop. / adm. = 3 mm
- Težina stakla Glass load (0.15 kN/m²)



Statički dijagram težina stakla Structural diagram glass load



1. Ulazni podaci / Input data:

Širina raspona / Load span:

L = 3.00 m

Visina ostakljenja / Glazing height:

H = 1.30 m

Debljina ostakljenja / Glazing thickness:

D = 20 mm*

* uzima se u obzir samo debljina staklenih ploha
* only glass pane thickness is calculated

2. Određivanje potrebnog momenta I_y pod jediničnim opt. 0.15 kN/m²
Determination of required moment I_y under unit load 0.15 kN/m²za / for q_s 0.15 kN/m² $I_{y0.15} = 23 \text{ cm}^4$ (1) dijagram / diagram3. Određivanje potrebnog momenta I_x pod opterećenjem na objektu
Determination of required moment I_x under load on the building

Debljina stakla Glass thickness D=20 mm ==> K=3.33

Potrebni / required $I_y = K_{20} \cdot I_{y0.15} = (3.33) \cdot 23 \text{ cm}^4 = 77 \text{ cm}^4$ 

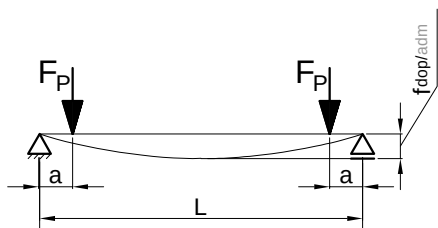
Vlastita težina profila nije uzeta u opterećenje !
The dead weight of the profile is not considered !

4. Odabrati profil iz tablice
Select the profile from the table

Statičke jednadžbe

Structural formulas

Nosac na dva oslonca / Beam on 2 supports



a = 150 mm fiksno / fixed

$$F = \frac{H \cdot L}{2} \cdot q_s$$

$$I_y = \frac{F \cdot a}{24 \cdot E \cdot f_{dop./adm.}} \cdot (3 \cdot L^2 - 4 a^2)$$

I_y (cm⁴) = Moment inercije / Moment of inertia
 F_P (kN) = Pojedinačno opterećenje / Single load
 a (cm) = Udaljenost oslonca / Support distance
 H (cm) = Visina stakla / Pane height
 L (cm) = Širina raspona / Load span
 q_s (kN/cm²) = Težina stakla / Glass weight
 $f_{dop./adm.}$ (cm) = dop.progib / adm. deflection

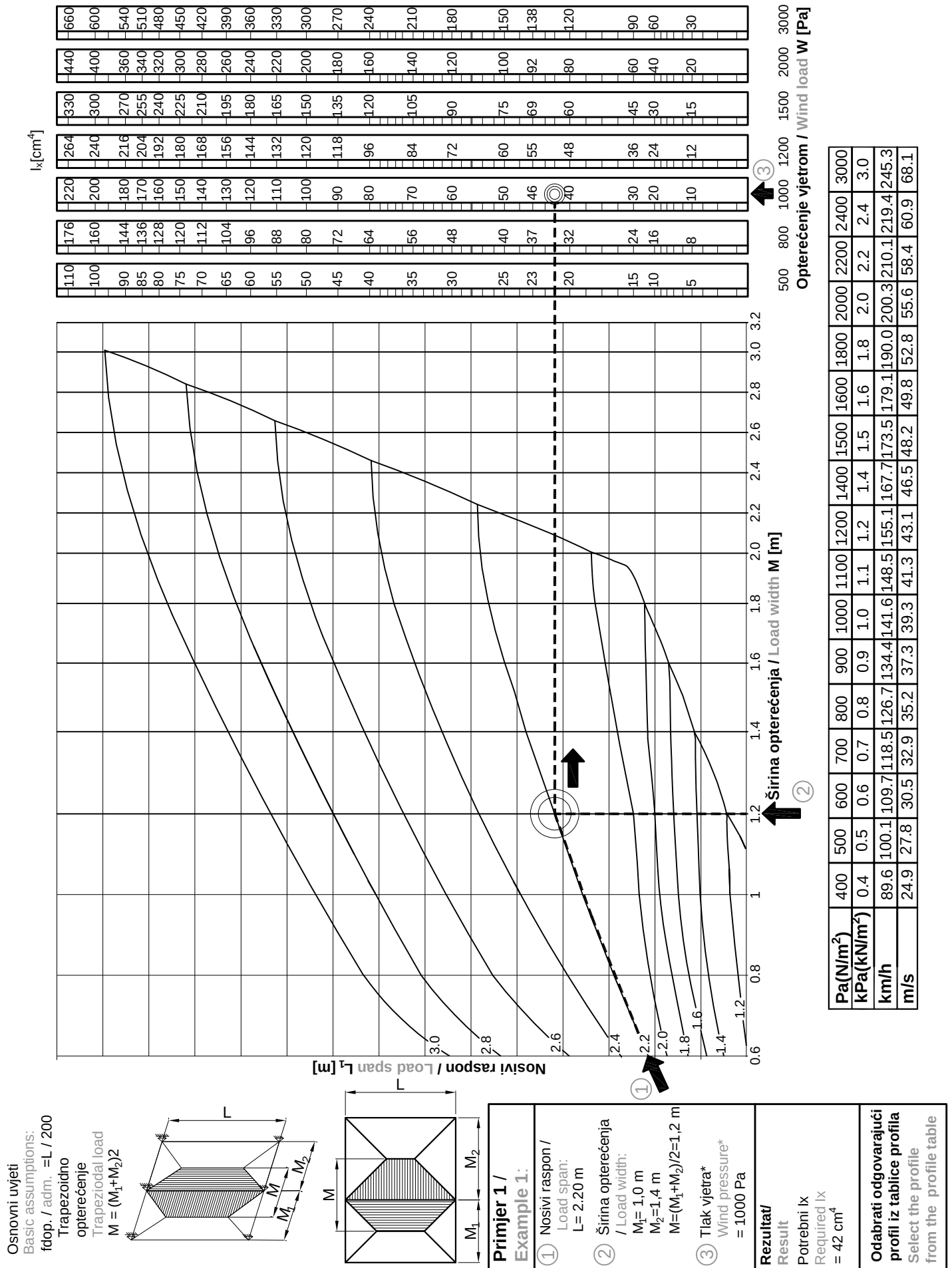
Tablica 1. Težina stakla
Table 1. Glass weight

Koeficijent K Coefficient K	1	1.33	1.66	2	2.33	2.66	3	3.33	3.66	4	4.33	4.66	5	5.33	5.66	6	6.33	6.66	7	7.33	7.66	8
kN/m ²	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25
kg/m ²	15	20	25	30	35	40	45	50	55	60	65	70	80	85	90	95	100	105	110	115	120	125
Deblj. stakla (mm) D Glass thick. (mm) D	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48

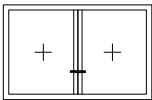
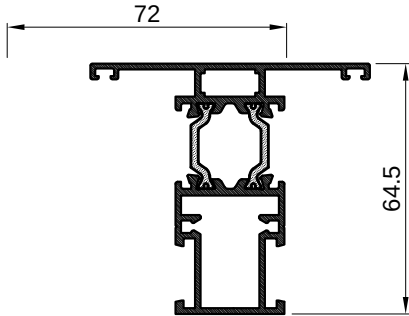
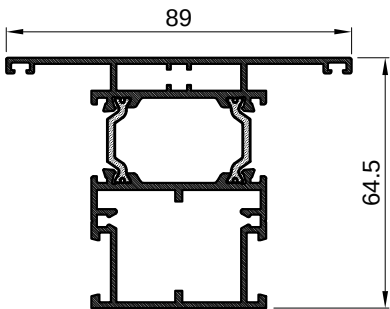
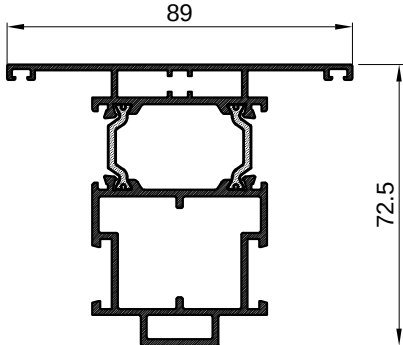
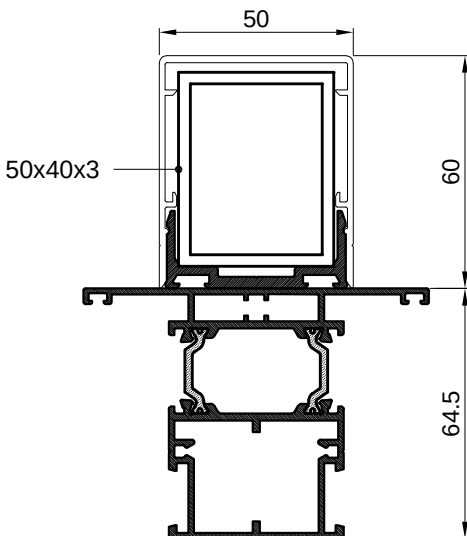


Statički dijagram -opterećenje vjetrom Structural diagram of wind load

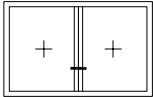
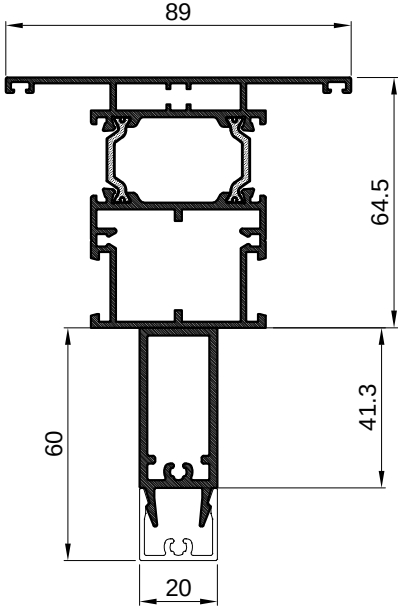
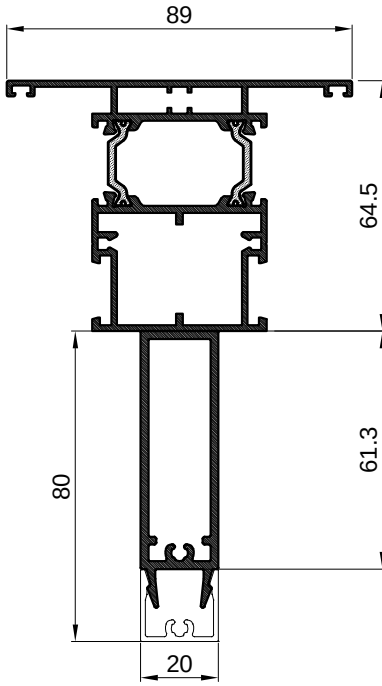
Trokutasto i trapezoidno opterećenje Triangular and trapezoidal load



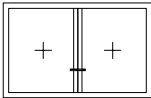
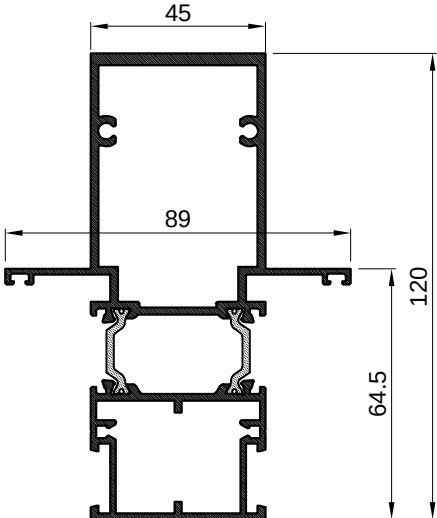
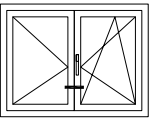
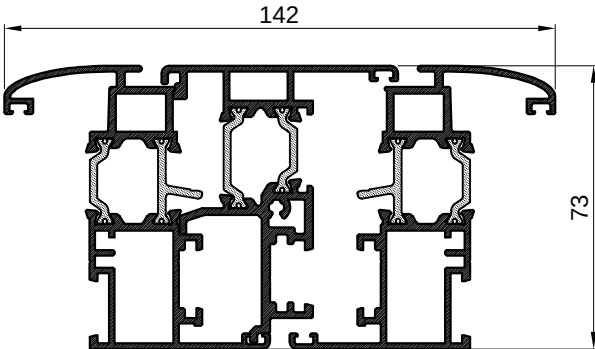
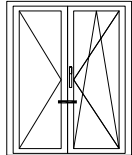
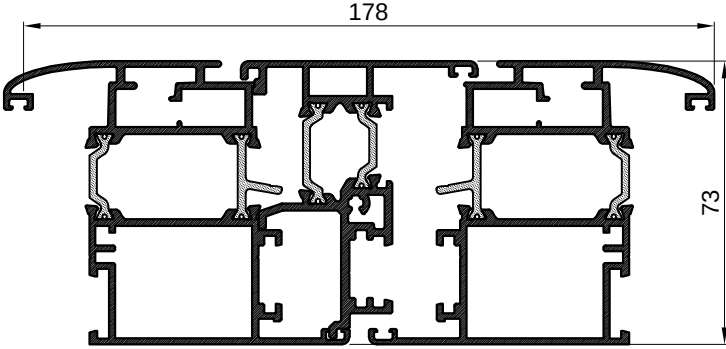
Vrijednosti momenta inercije
Moment of inertia values

Tip otvaranja Opening type	Izgled View	Profili Profiles	I_x (cm ⁴)
		FT-0205	17.78
		FT-0206	23.18
		FT-0276	30.71
		FT-0206+ čel.profil 50x40x3	111.76

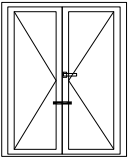
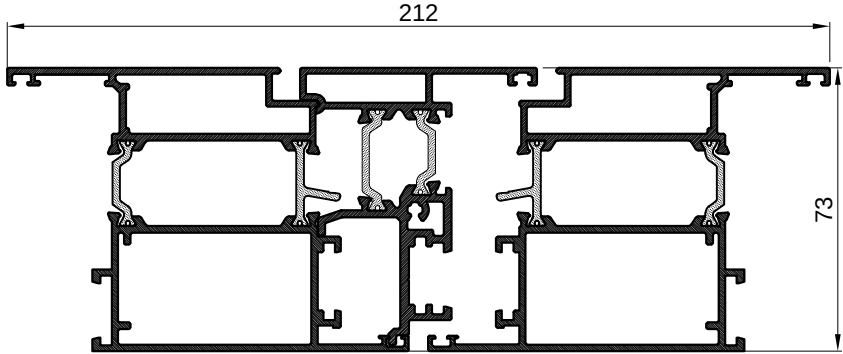
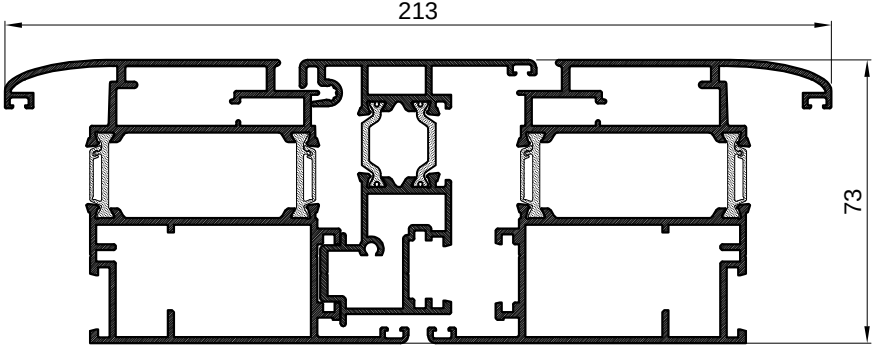
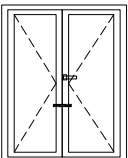
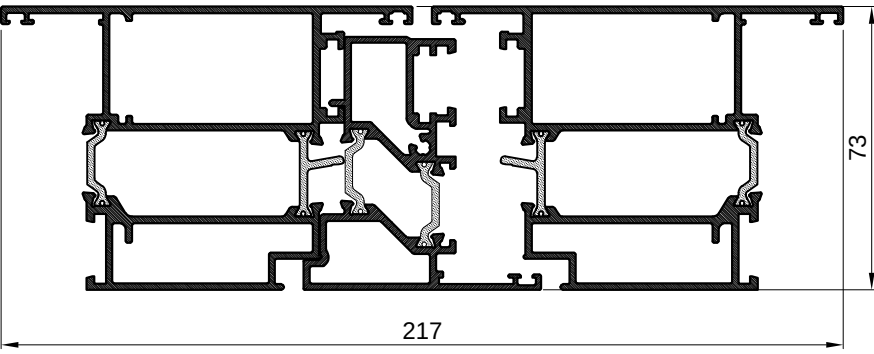
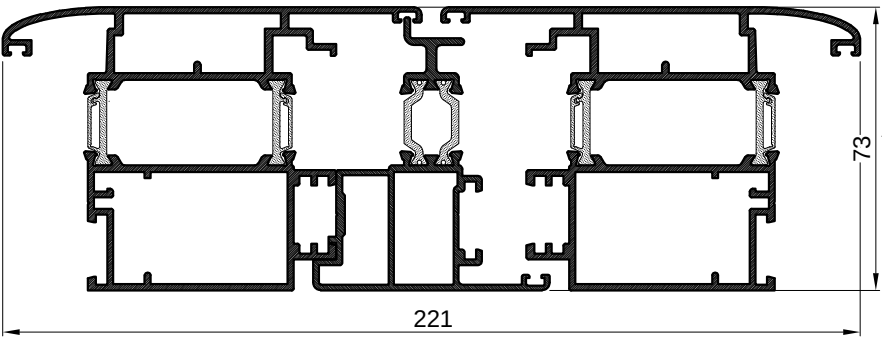
Vrijednosti momenta inercije
Moment of inertia values

Tip otvaranja Opening type	Izgled View	Profili Profiles	I_x (cm ⁴)
		FT-0206 i F-1634	92.47
		FT-0206 i NP-4183	142.36

Vrijednosti momenta inercije Moment of inertia values

Tip otvaranja Opening type	Izgled View	Profil Profiles	I_x (cm ⁴)
		FT-0209	108.01
		(FT-0286 i FT-0203) + FT-0203	66.68
		(FT-0286 i FT-0204) + FT-0204	86.35

Vrijednosti momenta inercije
Moment of inertia values

Tip otvaranja Opening type	Izgled View	Profil Profiles	I_x (cm ⁴)
		(FT-0277 i FT-0275) + FT-0275	96.78
		(FT-0211-A i FT-0218) + FT-0218	101.38
		FT-2281 + FT-0279	101.85
		(FT-0213-A i FT-0219) + FT-0219	98.86

PREPORUKE ZA ODABIR PROFILA KRILA OVISNO O VELIČINI KRILA
RECOMMENDATIONS FOR SELECTION OF SASH PROFILE BASED ON THE SASH SIZE

Grupa A - profili krila za prozore

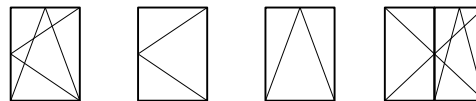
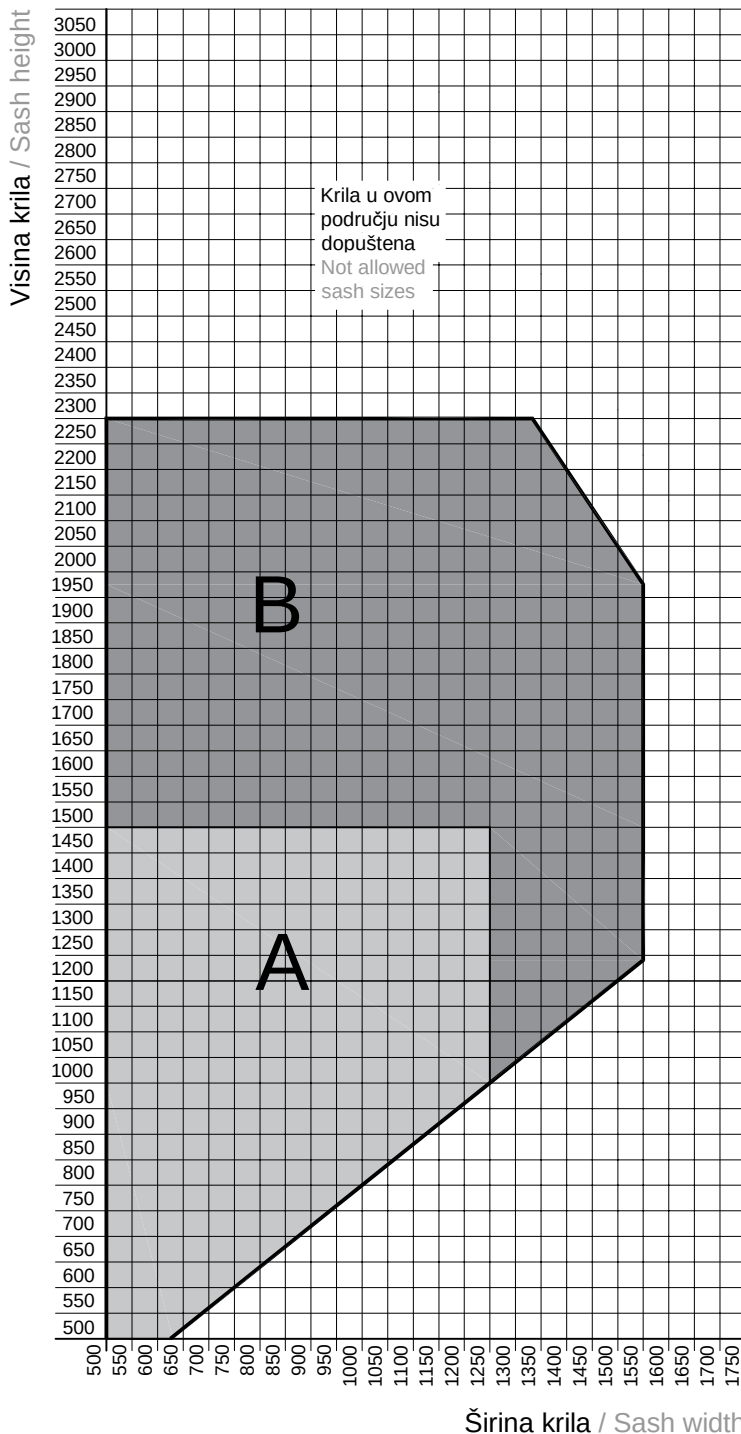
Grupa B - profili krila za prozore i balkonska vrata

Group A - sash profiles for windows

Group B - sash profiles for windows and balcony doors

Dijagram veličina krila ovisan o geometriji profila krila

Sash size diagram based on the sash profile geometry



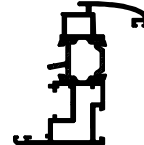
Grupa A

A ≤ 90 kg

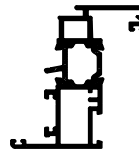
FT-0203



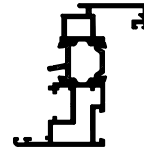
FT-0236



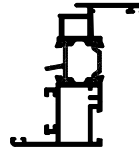
FT-0221



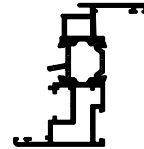
FT-0239



FT-0295



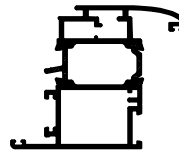
FT-0296



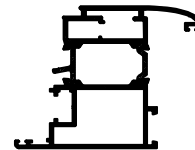
Grupa B

B ≤ 180 kg

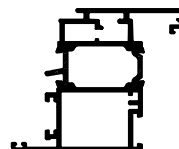
FT-0204



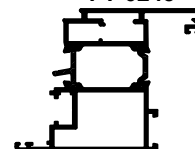
FT-0244



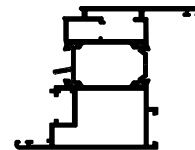
FT-0230



FT-0246



FT-1610

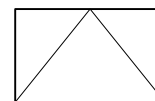


Prije konačnog odabira profila i dimenzija krila uzeti u obzir i ograničenja primjene okova prema preporuci proizvođača okova. Za izradu krila čije dimenzije se nalaze van graničnih dimenzija u dijagramu, staklo obavezno zalijepiti za profil krila (preporuke za lijepljenje /Knjiga B/ str. 203.11.009).

Before choosing the profile and sash dimensions, take into account the limitations of the application of hardware as recommended by the manufacturer of the hardware! To make sashes whose dimensions are outside the limits indicated in the diagram, the glass must be glued to the sash profile (recommendations for gluing /Book B/ page 203.11.009).

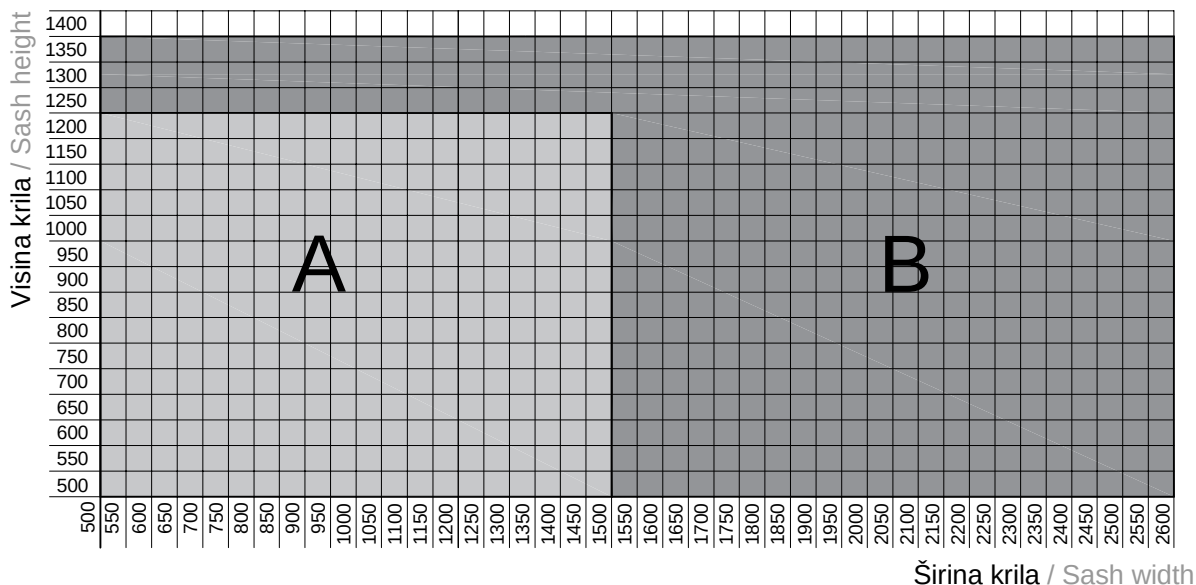
PREPORUKE ZA ODABIR PROFILA KRILA OVISNO O VELIČINI KRILA
RECOMMENDATIONS FOR SELECTION OF SASH PROFILE BASED ON THE SASH SIZE

Grupa A i B - profili krila za prozore
Group A and B - sash profiles for windows



Nadsvjetlo
Top light

Dijagram veličina krila ovisan o geometriji profila krila
Sash size diagram based on the sash profile geometry



Grupa A	
A ≤ 90 kg	
FT-0203	FT-0236
FT-0221	FT-0239
FT-0295	FT-0296

Grupa B	
B ≤ 170 kg	
FT-0204	FT-0244
FT-0230	FT-0246
	FT-1610



Prije konačnog odabira profila i dimenzija krila uzeti u obzir i ograničenja primjene okova prema preporuci proizvođača okova. Za izradu krila čije dimenzije se nalaze van graničnih dimenzija u dijagramu, staklo obavezno zalijepiti za profil krila (preporuke za lijepljenje /Knjiga B/ str. 203.11.009).

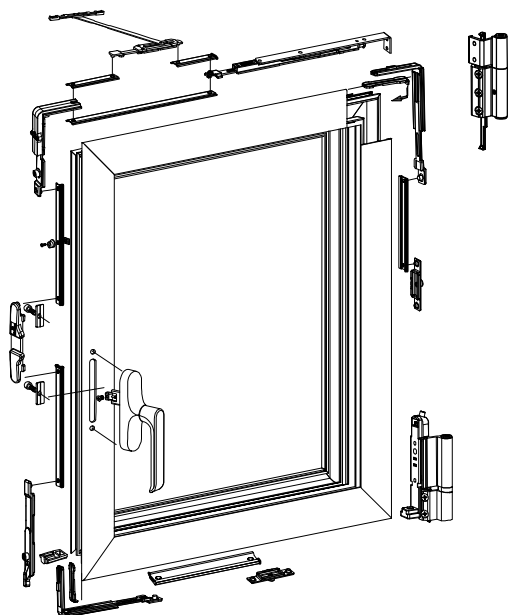
Before choosing the profile and sash dimensions, take into account the limitations of the application of hardware as recommended by the manufacturer of the hardware! To make sashes whose dimensions are outside the limits indicated in the diagram, the glass must be glued to the sash profile (recommendations for gluing /Book B/ page 203.11.009).

134.026.xx - OTKLOPNO-ZAOKRETNI MEHANIZAM - STUBLINA (4135.00)

134.026.xx - TILT-TURN MECHANISM - STUBLINA (4135.00)

Maksimalna težina krila 100 kg
Maximum sash weight 100 kg
Tablica nosivosti za:
Table of loads:

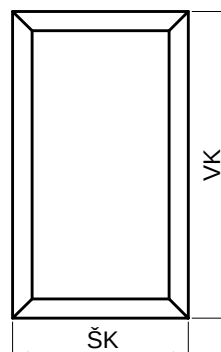
4135.00
4136.00
4137.00



Debljina stakla (mm)
Glass thickness (mm)

2400	38	31	27	23	20	18	16	15	14	13	12	11	10
2300	38	34	28	25	21	19	17	15	14	13	12	11	10
2200	38	33	30	25	22	20	18	16	15	14	13	11	10
2100	38	35	31	23	23	21	19	17	16	14	13	12	11
2000	38	38	33	28	25	22	20	18	16	15	14	12	11
1900	38	38	34	30	26	23	20	19	17	16	15	14	13
1800	38	38	38	31	27	24	21	20	18	16	15	14	13
1700	38	38	38	33	29	26	23	21	18	17	16	16	14
1600	38	38	38	35	31	27	25	22	20	18	16	15	13
1500	38	38	38	38	33	29	26	24	21	18	17	15	13
1400	38	38	38	38	35	31	27	25	22	21	17	16	13
1300	38	38	38	38	38	34	31	25	25	21	18	15	13
1200	38	38	38	38	38	35	33	29	25	21	18	15	13
1100	38	38	38	38	38	38	33	29	25	21	18	15	12
1000	38	38	38	38	38	38	33	29	25	21	18	13	10
900	38	38	38	38	38	38	33	29	21	19	15	11	8
800	38	38	38	38	38	38	31	25	20	15	10	8	x
700	38	38	38	38	38	33	31	24	18	13	x	x	x
600	38	38	38	38	38	33	31	21	x	x	x	x	x
500	38	38	38	38	38	29	x	x	x	x	x	x	x
465	38	38	38	38	38	x	x	x	x	x	x	x	x
VK(mm) SK(mm)	425	535	600	700	800	900	1000	1100	1200	1300	1400	1500	1600

X Neizvedivo / Unfeasible

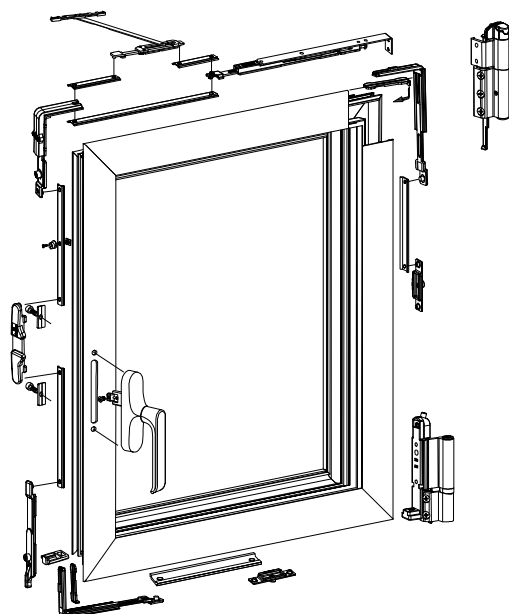


Debljina stakla
Glass thickness

mm	kg/m ²
6	15
8	20
10	25
12	30
14	35
16	40
18	45
20	50
22	55
24	60
26	65
28	70
30	80
32	85
34	90
36	95
38	100
40	105
42	110
44	115
46	120
48	125

Maksimalna težina krila 130 kg
Maximum sash weight 130 kg
Tablica nosivosti za:
Table of loads:

4135.00U
4136.00U
4137.00U

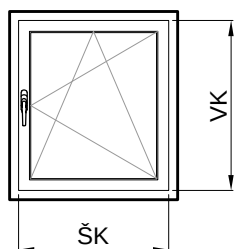


Debljina stakla (mm)
Glass thickness (mm)

2400	48	38	34	29	26	23	21	19	17	16	15	14	13
2300	48	40	36	31	27	24	21	20	18	17	15	14	13
2200	48	42	37	32	28	25	22	20	19	17	16	15	14
2100	48	44	39	34	29	26	24	21	20	18	17	16	15
2000	48	46	41	35	31	27	25	22	21	19	18	16	15
1900	48	48	43	37	33	29	26	24	22	20	19	17	16
1800	48	48	46	39	34	30	27	25	23	21	20	18	17
1700	48	48	48	42	36	32	29	26	24	22	21	19	18
1600	48	48	48	44	39	34	31	28	26	24	22	21	18
1500	48	48	48	47	41	37	33	30	27	25	24	21	18
1400	48	48	48	48	44	39	35	32	29	27	24	21	18
1300	48	48	48	48	48	42	38	35	32	27	24	21	18
1200	48	48	48	48	48	46	41	37	32	27	24	21	18
1100	48	48	48	48	48	48	45	37	32	27	24	20	16
1000	48	48	48	48	48	48	42	37	32	27	24	18	14
900	48	48	48	48	48	48	42	37	29	25	20	14	10
800	48	48	48	48	48	48	40	34	24	18	15	10	x
700	48	48	48	48	48	42	40	30	22	16	8	x	x
600	48	48	48	48	48	41	40	28	15	x	x	x	x
500	48	48	48	48	48	36	32	x	x	x	x	x	x
465	48	48	48	48	48	x	x	x	x	x	x	x	x
VK(mm) SK(mm)	425	535	600	700	800	900	1000	1100	1200	1300	1400	1500	1600

X Neizvedivo / Unfeasible

☒ Neizvedivo / Unfeasible

SKRIVENI OTKLOPNO-ZAKRETNI MEHANIZAM - GIESSE CHIC 3D STANDARD
CONCEALED TILT-TURN MECHANISM - GIESSE CHIC 3D STANDARD

Maksimalna
težina krila **100 kg**
Maximum
sash weight **100 kg**

		Maksimalna debljina stakla (mm) Maximum glass thickness (mm)										
2500	33	27	23	20	18	16	15	14	13	12	11	
2400	33	27	23	20	18	16	15	14	13	12	11	
2300	34	28	24	21	19	17	16	14	13	12	11	
2200	36	30	25	22	20	18	16	15	14	13	12	
2100	37	31	27	23	21	19	17	16	14	13	12	
2000	39	33	28	25	22	20	18	16	15	14	13	
1900	41	34	30	26	23	21	19	17	16	15	14	
1800	44	36	31	27	24	22	20	18	17	16	15	
1700	46	38	33	29	26	23	21	19	18	16	15	
1600	49	41	35	31	27	25	22	20	19	17	15	
1500	50	44	37	33	29	26	24	22	20	17	15	
1400	50	47	40	35	31	28	25	23	20	17	15	
1300	50	50	43	38	34	30	27	24	20	17	15	
1200	50	50	47	41	36	33	28	24	20	17	15	
1100	50	50	50	45	40	34	28	24	20	17	x	
1000	50	50	50	49	42	34	28	24	20	x	x	
900	50	50	50	50	42	34	28	24	x	x	x	
800	50	50	50	50	42	34	28	x	x	x	x	
700	50	50	50	50	42	34	x	x	x	x	x	
600	Vk(mm) Šk(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500
445		x Neizvedivo / Unfeasible										

		Maksimalna težina krila (kg) Maximum sash weight (kg)												
2500	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100	100	100	98	
1600	100	100	100	100	100	100	100	100	100	100	99	92		
1500	100	100	100	100	100	100	100	100	100	100	93	87		
1400	100	100	100	100	100	100	100	100	93	87	81			
1300	100	100	100	100	100	100	100	94	87	80	75			
1200	100	100	100	100	100	100	95	87	80	74	69			
1100	100	100	100	100	100	95	87	79	73	68	x			
1000	100	100	100	100	96	87	79	72	67	x	x			
900	100	100	100	98	87	78	71	65	x	x	x			
800	100	100	99	87	77	69	63	x	x	x	x			
700	100	100	87	76	67	61	x	x	x	x	x			
600	Vk(mm) Šk(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500		
445		x Neizvedivo / Unfeasible												

Maksimalna debljina stakla (mm)
Maximum glass thickness (mm)

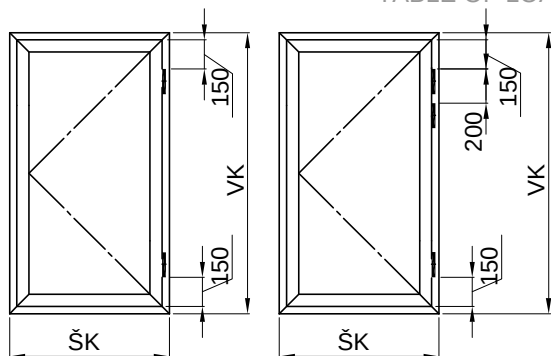
2800	40	33	29	25	22	20	18	17	15	14	x	x
2700	42	35	30	26	23	21	19	18	16	15	x	x
2600	45	37	32	28	25	22	20	19	17	16	15	x
2500	49	41	35	31	27	25	22	20	19	18	16	15
2400	49	41	35	31	27	25	22	20	19	18	16	15
2300	51	43	37	32	28	26	23	21	20	18	17	16
2200	54	45	38	33	30	27	24	22	21	19	18	17
2100	56	47	40	35	31	28	25	23	22	20	19	18
2000	59	49	42	37	33	29	27	25	23	21	20	18
1900	60	52	44	39	34	31	28	26	24	22	21	19
1800	60	55	47	41	36	33	30	27	25	23	22	20
1700	60	58	49	43	38	35	31	29	27	25	23	20
1600	60	60	53	46	41	37	33	31	28	26	23	20
1500	60	60	56	49	44	39	36	33	30	26	23	20
1400	60	60	60	53	47	42	38	35	30	26	23	20
1300	60	60	60	57	50	45	41	35	30	26	23	20
1200	60	60	60	60	55	49	42	35	30	26	23	x
1100	60	60	60	60	59	51	42	35	30	26	x	x
1000	60	60	60	60	60	51	42	35	30	x	x	x
900	60	60	60	60	60	51	42	35	x	x	x	x
800	60	60	60	60	60	51	42	x	x	x	x	x
700	60	60	60	60	60	51	x	x	x	x	x	x
600	Vk(mm) Šk(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500
470		x Neizvedivo / Unfeasible										

Maksimalna
težina krila **150 kg**
Maximum
sash weight **150 kg**

Maksimalna težina krila (kg)
Maximum sash weight (kg)

2800	143	143	143	143	143	143	143	143	143	143	x	x
2700	145	145	145	145	145	145	145	145	145	145	x	x
2600	148	148	148	148	148	148	148	148	148	148	148	x
2500	150	150	150	150	150	150	150	150	150	150	150	150
2400	150	150	150	150	150	150	150	150	150	150	150	150
2300	150	150	150	150	150	150	150	150	150	150	150	150
2200	150	150	150	150	150	150	150	150	150	150	150	150
2100	150	150	150	150	150	150	150	150	150	150	150	150
2000	150	150	150	150	150	150	150	150	150	150	150	150
1900	150	150	150	150	150	150	150	150	150	150	150	150
1800	150	150	150	150	150	150	150	150	150	150	150	146
1700	150	150	150	150	150	150	150	150	150	150	147	138
1600	150	150	150	150	150	150	150	150	150	148	138	130
1500	150	150	150	150	150	150	150	150	150	139	130	122
1400	150	150	150	150	150	150	150	150	140	130	121	113
1300	150	150	150	150	150	150	150	140	130	120	112	105
1200	150	150	150	150	150	150	141	130	120	111	104	x
1100	150	150	150	150	150	143	130	119	110	102	x	x
1000	150	150	150	150	144	130	118	108	100	x	x	x
900	150	150	150	146	130	117	106	97	x	x	x	x
800	150	150	148	130	115	104	94	x	x	x	x	x
700	150	150	130	113	101	91	x	x	x	x	x	x
600	Vk(mm) Šk(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500
470		x Neizvedivo / Unfeasible										

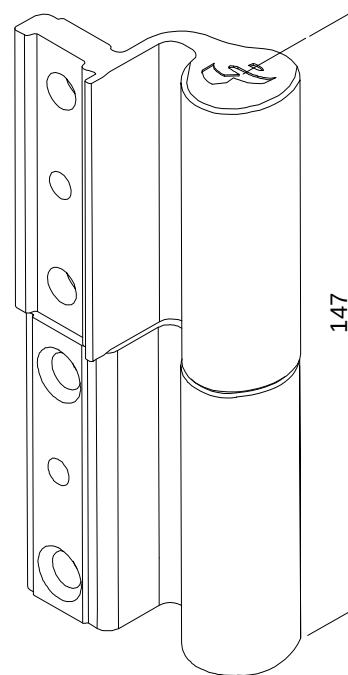
- TABLICE NOSIVOSTI ŠARKI - TABLE OF LOADS FOR HINGES



Napomena: Ukoliko se ugrade tri spojnice po preporuci, nosivost se uvećava za 10%.
Note: If three hinges are used as recommended, the load capability is increased 10%

Tablica nosivosti šarke 114.001.xx (Stublina)
Table of loads for hinges 114.001.xx (Stublina)

2800	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	80 90	71 80	67 76	62 70
2700	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	76 86	67 76	62 70	58 66
2600	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	80 90	71 80	67 76	58 66	57 63
2500	90 100	90 100	90 100	90 100	90 100	90 100	90 100	90 100	76 86	67 76	62 70	58 66	55 61
2400	90 100	90 100	90 100	90 100	90 100	90 100	80 90	71 80	65 72	58 66	56 62	54 60	
2300	90 100	90 100	90 100	90 100	90 100	90 100	74 82	67 76	62 70	57 64	54 60	52 59	
2200	90 100	90 100	90 100	90 100	90 100	80 90	71 80	62 70	58 66	56 62	51 58	49 56	
2100	90 100	90 100	90 100	90 100	90 100	74 82	65 72	58 66	56 62	51 58	49 56	47 52	
2000	90 100	90 100	90 100	90 100	80 90	69 78	62 70	56 62	54 60	50 57	47 52	45 50	
1900	90 100	90 100	90 100	90 100	71 80	62 70	58 66	54 60	49 56	47 52	45 50		
1800	90 100	90 100	90 100	80 90	67 76	58 66	54 60	51 58	49 56	47 52	45 50		
1700	90 100	90 100	90 100	71 80	62 70	57 64	51 58	49 56	47 52	45 50			
1600	90 100	90 100	76 85	65 72	58 66	54 60	49 56	47 52	45 50				
1500	90 100	90 100	70 79	58 66	54 60	50 57	48 53	45 50					
1400	90 100	76 86	62 70	56 62	51 58	47 52	45 50						
1300	90 100	68 75	58 66	54 60	49 55	46 50							
VK	ŠK	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800



114.001.xx

A (kg)



B (kg)

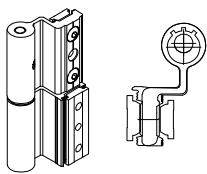
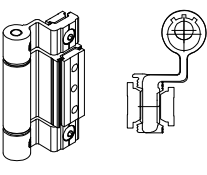
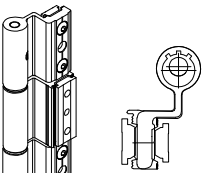
A - javna upotreba s dvije šarke

A - public use with two hinges

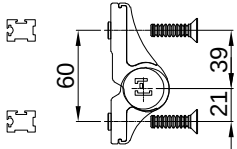
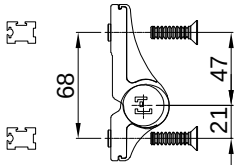
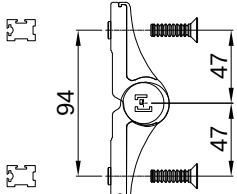
B - privatna upotreba s dvije šarke

B - private use with two hinges

- TABLICE NOSIVOSTI ŠARKI
- TABLE OF LOADS FOR HINGES

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Nosivost Load	
			2 šarke 2 hinges	3 šarke 3 hinges
114.004.01 02 03		- Dvodijelna šarka-EURO ŽLIJEB - Oznaka proizvođača Stublina: 2024.00 - Boje: 01- bijela; 02 - siva;03 - crna - Two-part hinge-EURO GROOVE - Manufacturer code Stublina: 2024.00 - Color: 01- white; 02 - gray; 03 - black	Javna upotreba Public use	
			70 kg	85 kg
			Privatna upotreba Private use	
			80 kg	100 kg
114.005.01 02 03		- Trodijelna šarka-EURO ŽLIJEB - Oznaka proizvođača Stublina: 2129.00 - Boje: 01- bijela; 02 - siva;03 - crna - Three-part hinge-EURO GROOVE - Manufacturer code Stublina: 2129.00 - Color: 01- white; 02 - gray; 03 - black	Javna upotreba Public use	
			90 kg	95 kg
			Privatna upotreba Private use	
			90 kg	100 kg
114.006.01 02 03		- Trodijelna šarka-EURO ŽLIJEB - Oznaka proizvođača Stublina: 2124.00 - Boje: 01- bijela; 02 - siva;03 - crna - Three-part hinge-EURO GROOVE - Manufacturer code Stublina: 2124.00 - Color: 01- white; 02 - gray; 03 - black	Javna upotreba Public use	
			100 kg	105 kg
			Privatna upotreba Private use	
			100 kg	110 kg

- TABLICE NOSIVOSTI ŠARKI
- TABLE OF LOADS FOR HINGES

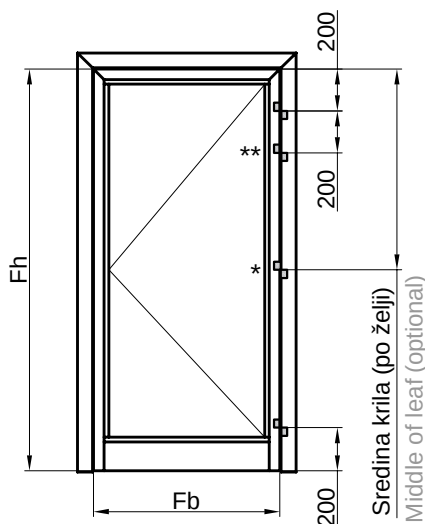
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Nosivost Load (2 šarke 2 hinges)
113.008.01 02 03		- Dvodijelna šarka OSNO 60 - Oznaka proizvođača ALU-B: Max3D 60 - Boje: 01- bijela; 02 - siva; 03 - crna - Two-part hinge AXIS 60 - Manufacturer code ALU-B: Max3D 60 - Color: 01- white; 02 - gray; 03 - black	120 kg
113.009.01 02 03		- Dvodijelna šarka OSNO 68 - Oznaka proizvođača ALU-B: Max3D 68 - Boje: 01- bijela; 02 - siva; 03 - crna - Two-part hinge AXIS 68 - Manufacturer code ALU-B: Max3D 68 - Color: 01- white; 02 - gray; 03 - black	120 kg
113.011.01 02 03		- Dvodijelna šarka OSNO 94 - Oznaka proizvođača ALU-B: Max3D 94 - Boje: 01- bijela; 02 - siva; 03 - crna - Two-part hinge AXIS 94 - Manufacturer code ALU-B: Max3D 94 - Color: 01- white; 02 - gray; 03 - black	120 kg

Preporuke za ugradnju šarki

Recommendations for montage of the hinges

Fh = Visina krila
Leaf height

Fb = Širina krila
Leaf width



EN 1935:2002 Annex E

Zatvarači vrata povećavaju opterećenje na šarke i njihov stupanj trošenja. Za zatvarače bez prigušenja otvaranja efektivna masa vrata je 20% veća od stvarne mase vrata. Za zatvarače s prigušenjem otvaranja efektivna masa vrata je 75% veća od stvarne mase vrata.

* Dodatna šarka za bolje brtvljenje preporučuje se za visine krila iznad 2200 mm.

** Na vratima s ugrađenim zatvaračem kao i na vratima za javnu upotrebu potrebno je koristiti najmanje tri šarke.

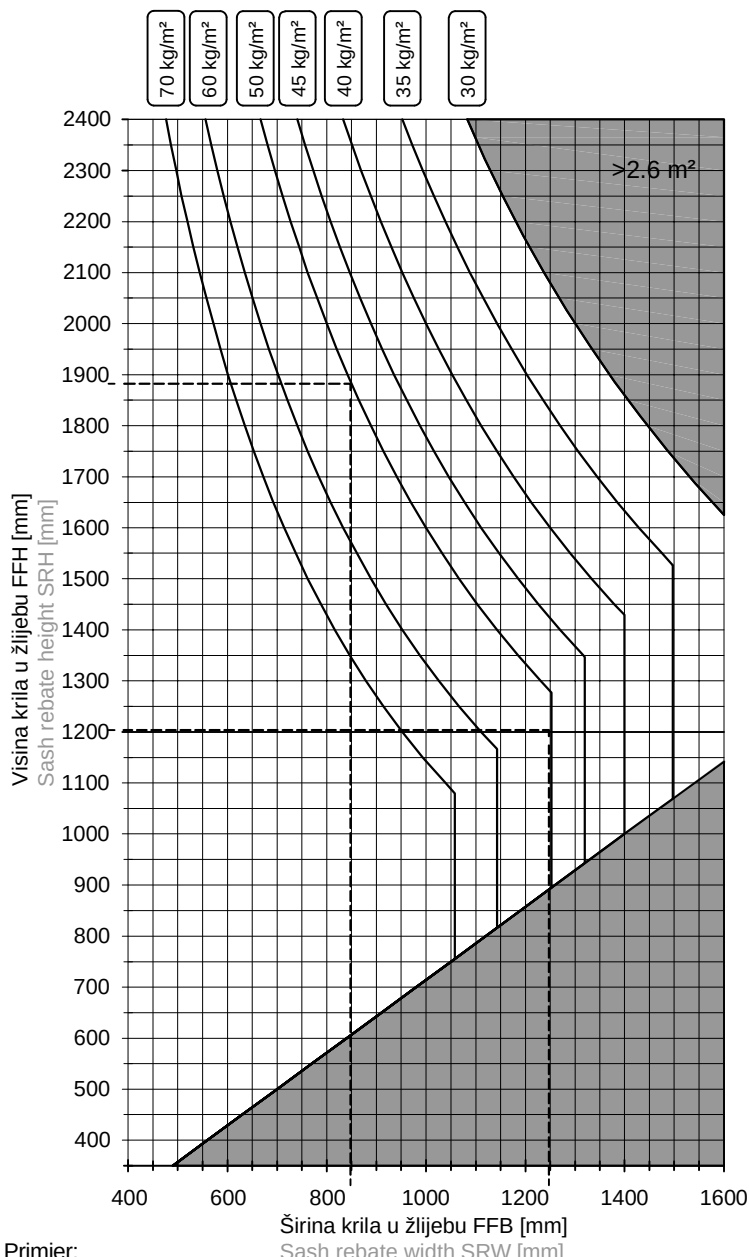
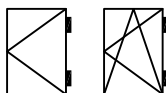
Door closers increase the loading on door hinges and their rate of wear. For door closers without backcheck the effective door mass is 20 % greater than the actual door mass. For back-check closers the effective door mass is calculated to be 75% greater.

* Additional door hinge for better sealing pressure is recommended for leaf height over 2200 mm.

** Doors fitted with door closers as well as doors for public use should use at least three hinges.

Dijagram primjene UNI-JET C za težine krila do 80 kg

Težine ispune



Primjer:

Težina ispune = 50 kg/m²

Kod širine krila u žlijebu FFB od 850 mm dobivamo maksimalnu visinu krila u žlijebu FFH od 1880 mm.

Kod visine krila u žlijebu FFH od 1200 mm dobivamo maksimalnu širinu krila u žlijebu FFB od 1250 mm.

Napomena:

Dozvoljene su dimenzije krila koje se nalaze samo lijevo od krivulje težina. Nedoželjene dimenzije su sivo zatamnjene. Ovaj dijagram primjene je važeći samo u vezi sa pripadajućim crtežom 0-44708.

Example :

Infill weight = 50 kg/m²

With a SRW = 850 mm, the max. SRH = 1880 mm.

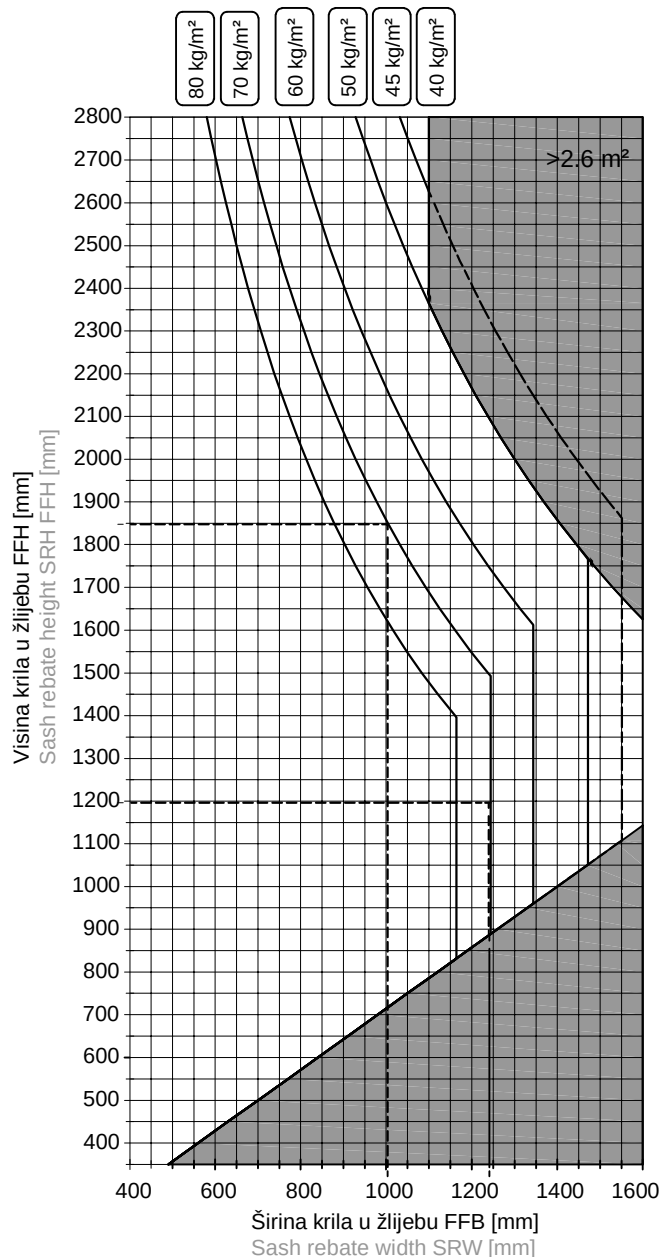
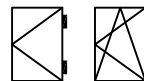
With a SRH = 1200 mm, the max. SRW = 1250 mm

Remark

Only sash formats to the left of the respective glass weight graph are permissible. The unauthorized dimensions are gray dimmed. This application diagram is valid only in conjunction the corresponding installation drawing 0-44708.

Dijagram primjene UNI-JET C za težine krila do 130 kg

Težine ispune



Primjer:

Težina ispune = 70 kg/m²

Kod širine krila u žlijebu FFB od 1000 mm dobivamo maksimalnu visinu krila u žlijebu FFH od 1850 mm.

Kod visine krila u žlijebu FFH od 1200 mm dobivamo maksimalnu širinu krila u žlijebu FFB od 1240 mm.

Napomena:

Dozvoljene su dimenzije krila koje se nalaze lijevo od krivulje težina.

Nedoželjene dimenzije su sivo zatamnjene. Ovaj dijagram primjene je važeći samo u vezi sa pripadajućim crtežom 0-44708.

Example

Infill weight = 70 kg/m²

With a SRW = 1000 mm, the max. SRH = 1850 mm.

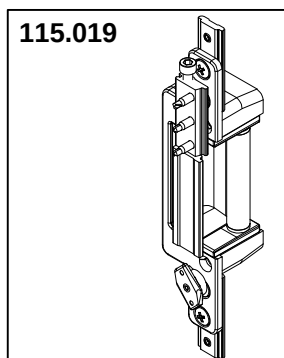
With a SRH = 1200 mm, the max. SRW = 1240 mm.

Remark

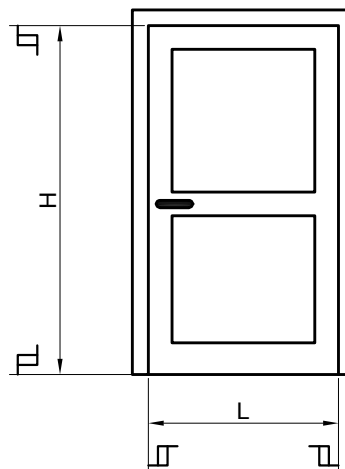
Only sash formats to the left of the respective glass weight graph are permissible. The unauthorized dimensions are gray dimmed. This application diagram is valid only in conjunction with the corresponding installation drawing 0-44708.

SKRIVENA ŠARKA GIESSE -115.019 - KOEFICIJENT SMANJENJA MASE VRATA (CRP) OVISNO O DIMENZIJAMA KRILA

CONCEALED DOOR HINGE GIESSE -115.019 - DOOR WEIGHT REDUCTION COEFFICIENT (CRP) AS A FUNCTION OF LEAF SIZES



- Skrivena šarka GIESSE za vrata - otvaranje unutra
- Concealed door hinge GIESSE - inward opening



Koeficijent smanjenja težine (CRP)
Weight reduction coefficient (CRP)

X - dimenzije koje nisu dopuštene
X - Not possible dimensions

	3000	1	1	1	1	1	1	1	1	0.93	0.84	0.76	
	2900	1	1	1	1	1	1	1	1	0.88	0.80	0.74	
	2800	1	1	1	1	1	1	1	0.93	0.83	0.76	0.71	
	2700	1	1	1	1	1	1	1	0.88	0.79	0.72	0.68	
	2600	1	1	1	1	1	1	0.93	0.83	0.75	0.69	0.65	
	2500	1	1	1	1	1	1	0.87	0.78	0.71	0.67	0.63	
	2400	1	1	1	1	1	0.93	0.81	0.74	0.68	0.64	0.61	
	2300	1	1	1	1	1	0.85	0.76	0.70	0.65	0.61	0.59	
Primjer →	2200	1	1	1	1	1	0.91	0.80	0.72	0.67	0.63	0.59	0.57
	2100	1	1	1	1	0.85	0.75	0.68	0.64	0.60	0.57	0.55	
	2000	1	1	1	1	0.91	0.79	0.71	0.65	0.61	0.58	0.55	0.53
	1900	1	1	1	1	0.83	0.73	0.67	0.62	0.58	0.56	0.53	0.52
	1800	1	1	1	0.90	0.77	0.69	0.63	0.59	0.56	0.54	0.52	x
	1700	1	1	1	0.82	0.71	0.65	0.60	0.57	0.54	0.52	x	x
	1600	1	1	0.89	0.75	0.67	0.61	0.57	0.54	0.52	x	x	x
	1500	1	1	0.80	0.69	0.63	0.58	0.55	0.52	x	x	x	x
↑ H	1400	1	0.88	0.73	0.64	0.59	0.55	0.52	x	x	x	x	x
	1300	1	0.78	0.67	0.60	0.56	0.52	x	x	x	x	x	x
	1200												
	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
						</							

Za dobivanje dozvoljene najveće težine krila (P) pomnožite vrijednost Pmax odabranu u tablici maksimalne nosivosti (str. 203.02.021, tablica 1) s koeficijentom smanjenja težine (CRP) koji odgovara veličini krila (Širina W x Visina H)

Primjer:

W x H = 1200 x 2200 mm (bez zatvarača)

CRP = 0,91

Pstvarno = 128 kg

Pmax = 135 kg (iz tablice 1: 120kg < Pstvarno ≤ 135kg, Pmax=135)

P = Pmax x CRP = 135 kg x 0,91 = 122 kg

Najveća dopuštena težina krila za zadane dimenzije iznosi 122 kg.

Potrebne 3 šarke (iz tablice 2 na stranici 203.02.021)

To obtain allowed leaf maximum weight (P) multiply the Pmax value chosen in the Maximum load chart (p. 203.02.021 table 1) with the weight reduction coefficient (CRP) corresponding to the leaf size (W x H).

Example:

W x H = 1200 x 2200 mm (without door closer)

CRP = 0,91

Preal = 128 kg

Pmax = 135 kg (from table 1: 120kg < Preal ≤ 135 kg, Pmax=135)

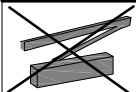
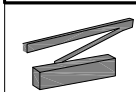
P = Pmax x CRP = 135kg x 0,91 = 122 kg

The maximum permitted leaf weight for the given dimensions is 122 kg

3 hinges required (from table 2 on page 203.02.021)

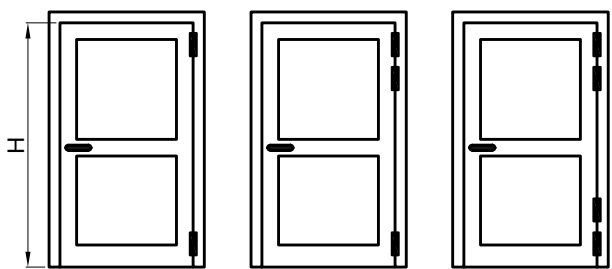
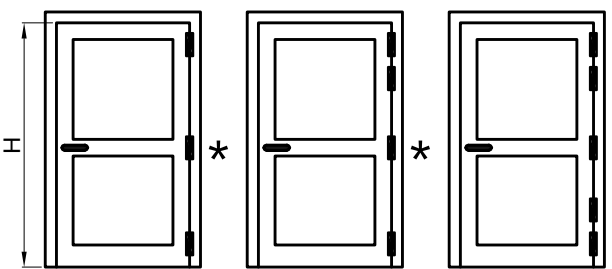
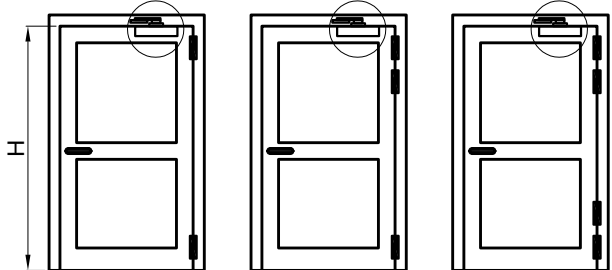
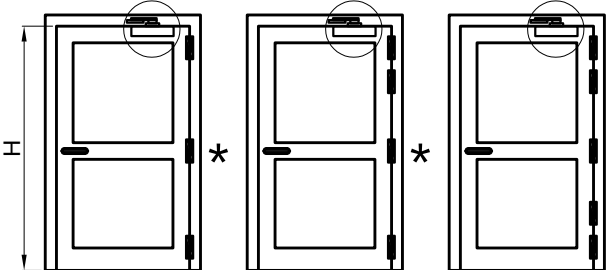
TABLICE ZA SKRIVENU ŠARKU GIESSE -115.019
TABLES FOR CONCEALED DOOR HINGE -115.019

Tablica 1 Table 1

Tablica odabira koeficijenta P_{max} ovisno o stvarnoj težini krila ($P_{stvarno}$), slučaj bez zatvarača Table for selecting the P_{max} coefficient depending on the actual weight (P_{real}) of the leaf, case without a door closer	Tablica odabira koeficijenta P_{max} ovisno o stvarnoj težini krila ($P_{stvarno}$), slučaj sa zatvaračem Table for selecting the P_{max} coefficient depending on the actual weight (P_{real}) of the leaf, case with a door closer
$P_{stvarno} (P_{real}) \leq 120\text{kg}, \rightarrow P_{max} = 120\text{ kg}$	$P_{stvarno} (P_{real}) \leq 100\text{kg}, \rightarrow P_{max} = 100\text{ kg}$
$120\text{ kg} < P_{stvarno} (P_{real}) \leq 135\text{kg}, \rightarrow P_{max} = 135\text{ kg}$	$100\text{ kg} < P_{stvarno} (P_{real}) \leq 120\text{kg}, \rightarrow P_{max} = 120\text{ kg}$
$135\text{ kg} < P_{stvarno} (P_{real}) \leq 150\text{kg}, \rightarrow P_{max} = 150\text{ kg}$	$120\text{ kg} < P_{stvarno} (P_{real}) \leq 135\text{kg}, \rightarrow P_{max} = 135\text{ kg}$
	

Tablica 2 Table 2

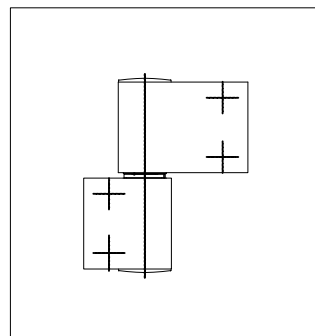
- TABLICA POVEZANOSTI NOSIVOSTI, VISINE I POTREBNOG BROJA GIESSE SKRIVENIH ŠARKI
- TABLE OF RELATIONSHIP BETWEEN LOAD CAPACITY, HEIGHT AND NECESSARY NUMBER OF GIESSE CONCEALED HINGES

Upotreba bez zatvarača Usage without door closer	
$H < 2500$	$H \geq 2500$
 120 kg 135 kg 150 kg	 120 kg 135 kg 150 kg ★ Preporuka Recommended
Upotreba sa zatvaračem Usage with door closer	
$H < 2500$	$H \geq 2500$
 100 kg 120 kg 135 kg	 100 kg 120 kg 135 kg ★ Preporuka Recommended

TÜRBAND 4 DVODIJELNE ŠARKE (M901_XXXX-M949_XXXX)

TÜRBAND 4 AT TWO-PIECE HINGE (M901_XXXX-M949_XXXX)

3000	180	180	180	180	180	180	180	180	180
2900	180	180	180	180	180	180	180	180	180
2800	180	180	180	180	180	180	180	180	180
2700	180	180	180	180	180	180	180	180	175
2600	180	180	180	180	180	180	170	165	
2500	180	180	180	180	180	175	170	165	155
2400	180	180	180	180	175	170	160	155	150
2300	180	180	180	175	165	160	155	145	140
2200	180	175	170	165	155	150	145	140	135
2100	180	165	160	155	150	140	135	130	125
2000									
	1000	1050	1100	1150	1200	1250	1300	1350	1400
									1450

Visina krila
Leaf heightŠirina krila
Leaf width

Napomene proizvođača šarki (Dr. Hahn):

Svi podaci vrijede ako su zadovoljeni uvjeti pravilne montaže (gornja šarka 150 mm od vrha krila, donja 200 mm od dna krila), za korištenje dvije šarke kod srednje ili niskofrekventne upotrebe.

Za primjenu na vratima sa zatvaračem, automatskim vratima ili kod visokofrekventne upotrebe (na javnim objektima), preporučuje se montaža treće šarke 150 mm ispod gornje.

Gore navedene težine ne smiju se prekoračiti!

Hinges manufacturer remarks (Dr. Hahn):

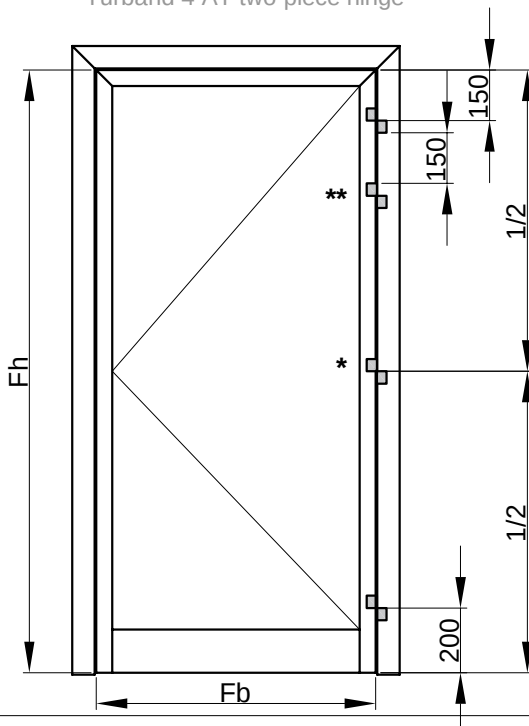
All data is only valid if the minimum distances of the hinges is guaranteed (leaf height, minus 150 mm for upper hinge, minus 200 mm for lower hinge), for the use of 2 hinges and medium or low frequency of use.

For applications with door closers, automatic doors or high frequency of use (for example public buildings), we recommend the installation of a third hinge 150 mm below the upper hinge.

The above mentioned weights shall not be exceeded!

Preporuke za ugradnju Dr. Hahn Türband 4 AT šarki

Recommendations for montage of the Dr. Hahn Türband 4 AT hinges

Türband 4 AT dvodijelna šarka
Türband 4 AT two-piece hinge

* Dodatna šarka za bolje brtvljenje preporučuje se za visine krila iznad 2200 mm.

** Na vratima s ugrađenim zatvaračem kao i na vratima za javnu upotrebu potrebno je koristiti najmanje tri šarke.

* Additional door hinge for better sealing pressure is recommended for leaf height over 2200 mm.

** Doors fitted with door closers as well as doors for public use should use at least three hinges.

Napomena:

Ne podmazivati, čahure su napravljene od PVC-a koji ne zahtijeva održavanje!

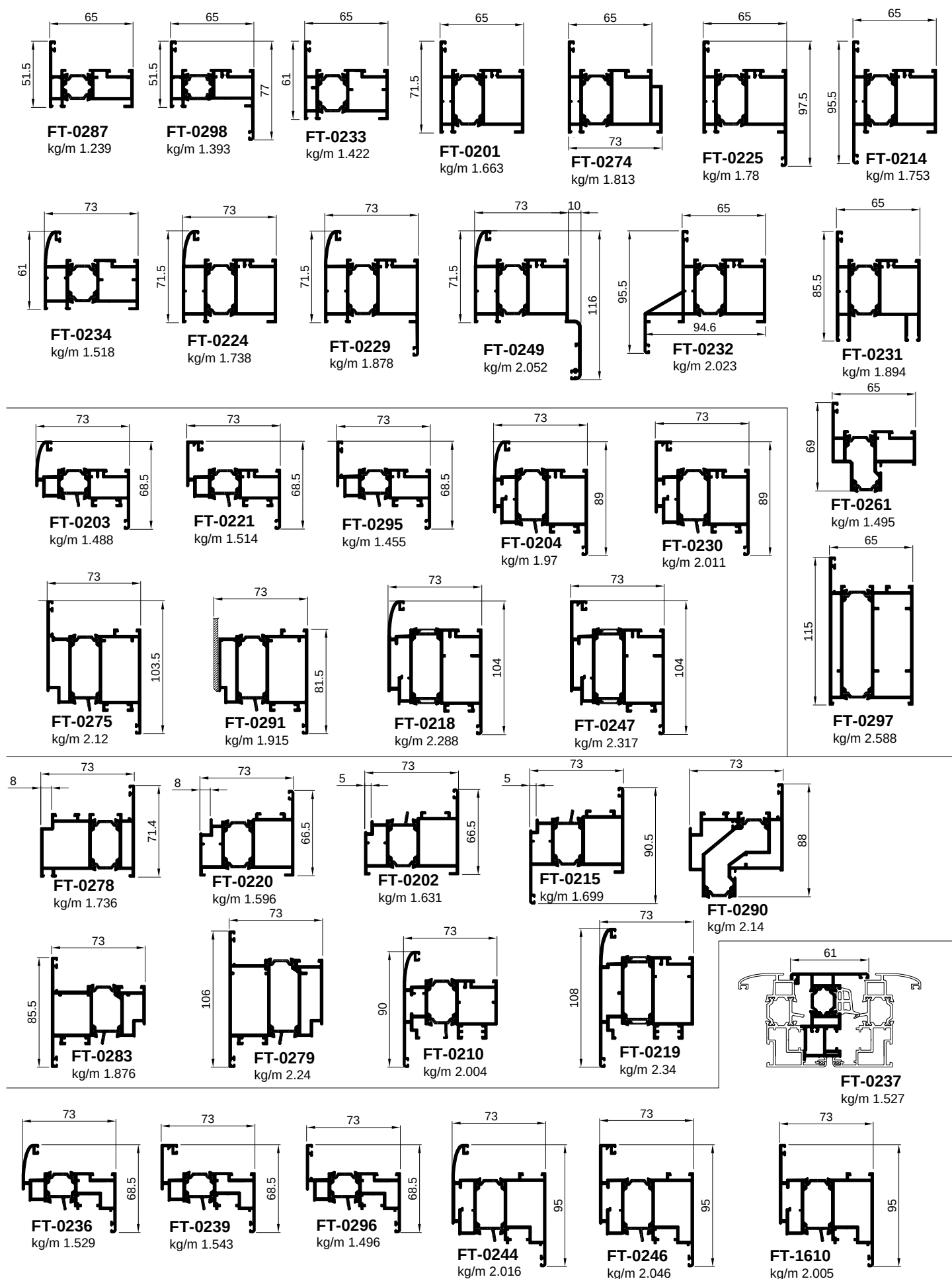
Remark:

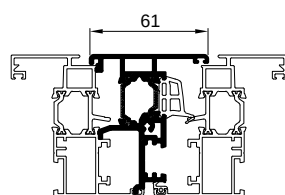
Bearing bushes made of maintenance-free PVC - do not lubricate!

Fh = Visina krila
Leaf height

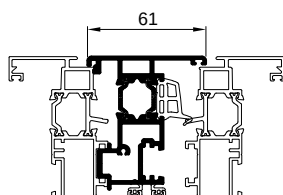
Fb = Širina krila
Leaf width

Profili Profiles

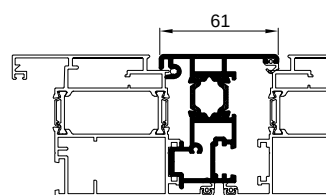




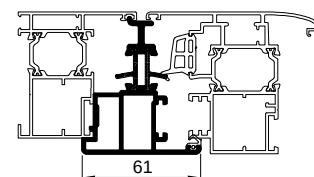
FT-0286
kg/m 1.503



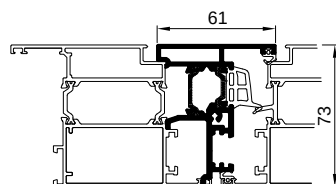
FT-0211
kg/m 1.453



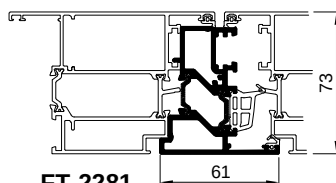
FT-0211-A
kg/m 1.492



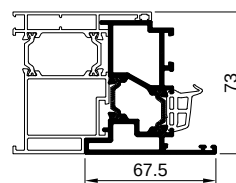
FT-0213
kg/m 1.342



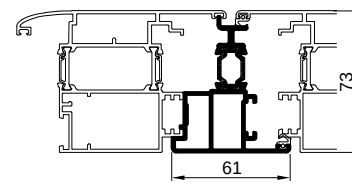
FT-0277
kg/m 1.451



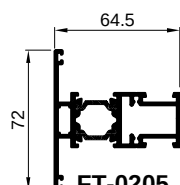
FT-2281
kg/m 1.522



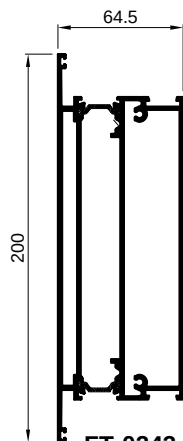
FT-2280
kg/m 1.574



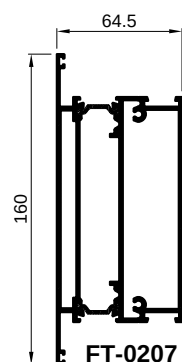
FT-0213-A
kg/m 1.326



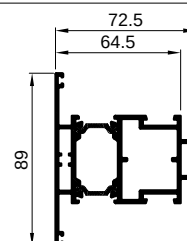
FT-0205
kg/m 1.425



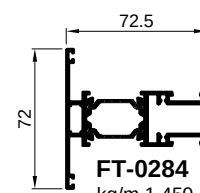
FT-0243
kg/m 4.239



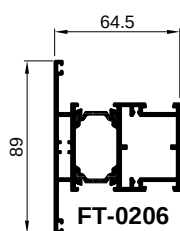
FT-0207
kg/m 3.437



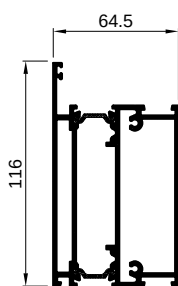
FT-1614
kg/m 1.294



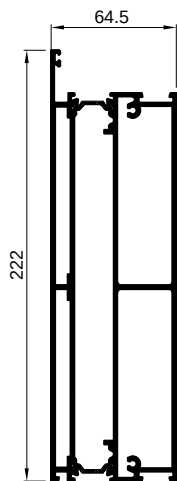
FT-0284
kg/m 1.450



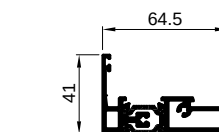
FT-0206
kg/m 1.789



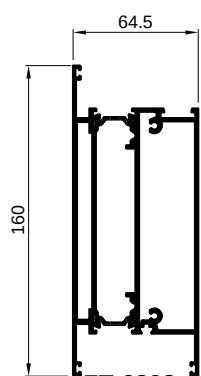
FT-0265
kg/m 2.769



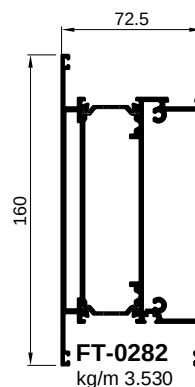
FT-0264
kg/m 5.353



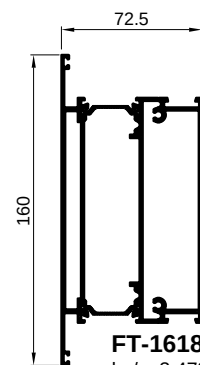
FT-1621
kg/m 1.740



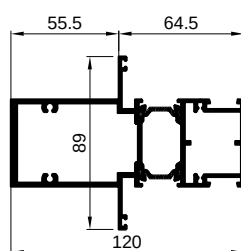
FT-0208
kg/m 3.508



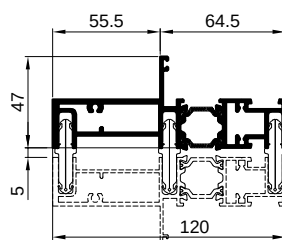
FT-0282
kg/m 3.530



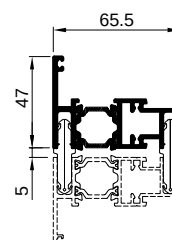
FT-1618
kg/m 3.479



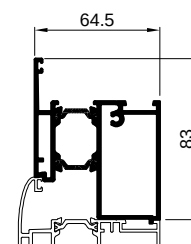
FT-0209
kg/m 2.679



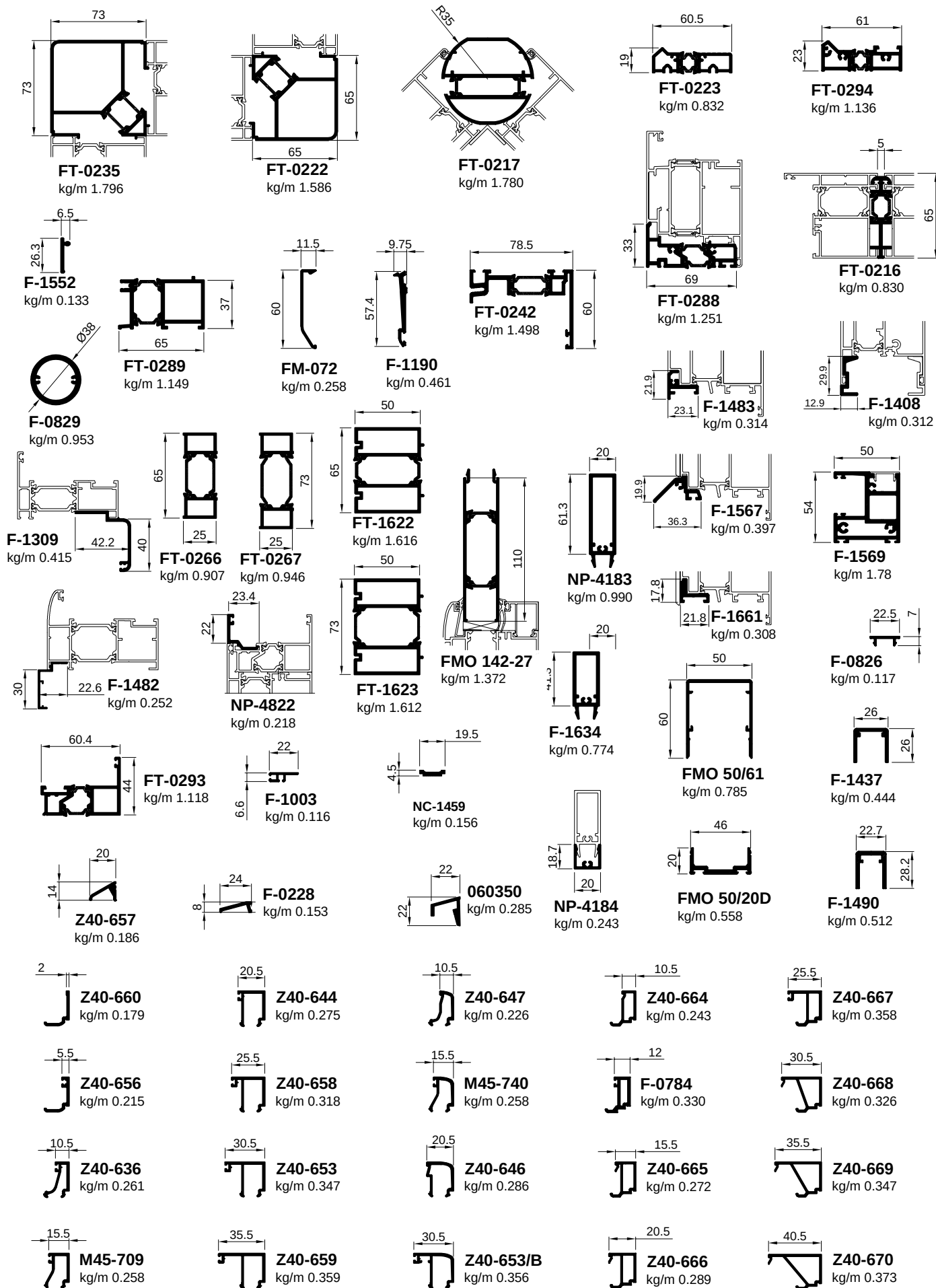
FT-0226
kg/m 2.027

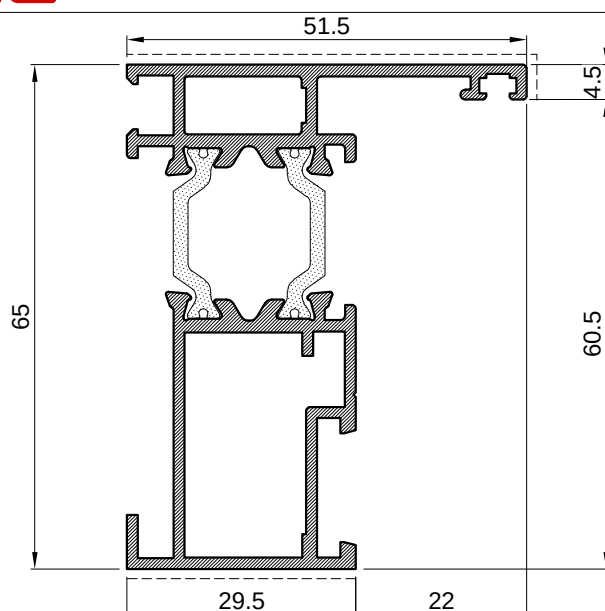


FT-0227
kg/m 1.311

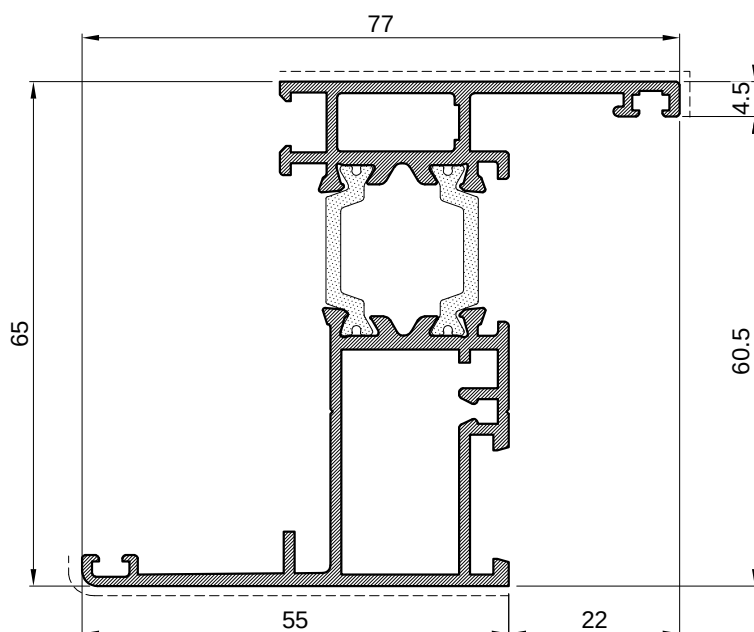


FT-0228
kg/m 1.775

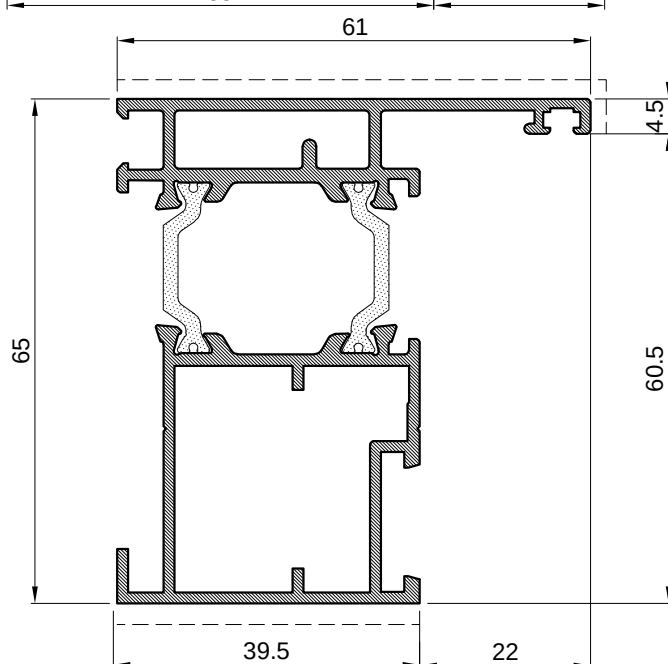




Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0287	
Težina Weight	kg/m	1.239
Opseg Perimeter	mm	336
Moment inercije Moment of inertia	I _x (cm ⁴)	16.49
	I _y (cm ⁴)	5.68
	W _x (cm ³)	5.89
	W _y (cm ³)	1.73
L	mm	6500

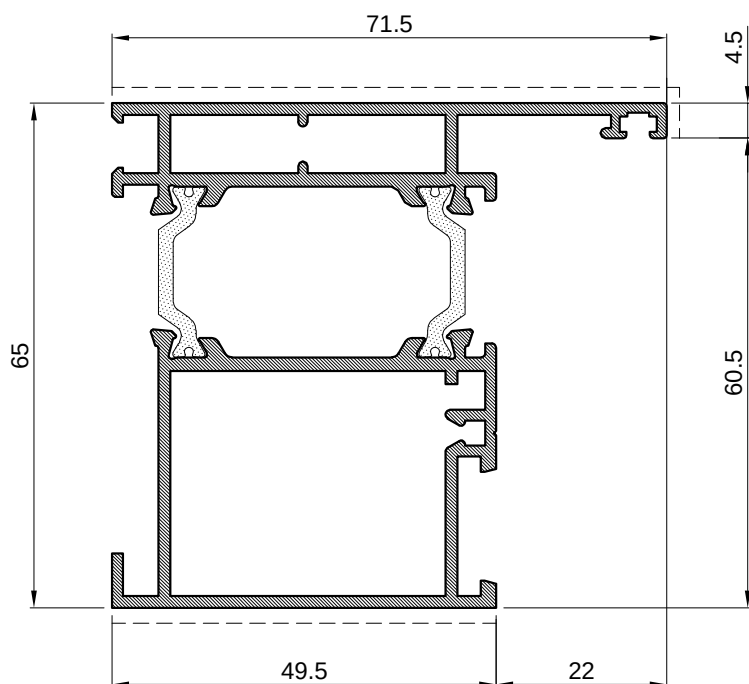


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0298	
Težina Weight	kg/m	1.393
Opseg Perimeter	mm	397
Moment inercije Moment of inertia	I _x (cm ⁴)	20.5
	I _y (cm ⁴)	10.17
	W _x (cm ³)	8.13
	W _y (cm ³)	2.47
L	mm	6500

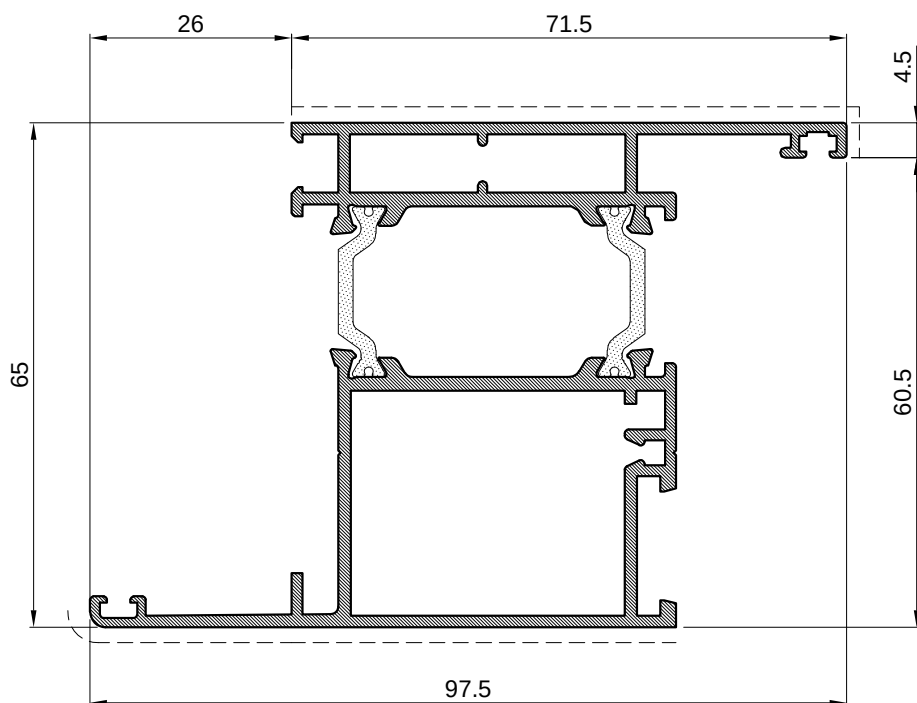


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0233	
Težina Weight	kg/m	1.422
Opseg Perimeter	mm	345
Moment inercije Moment of inertia	I _x (cm ⁴)	19.36
	I _y (cm ⁴)	10.38
	W _x (cm ³)	6.84
	W _y (cm ³)	2.77
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

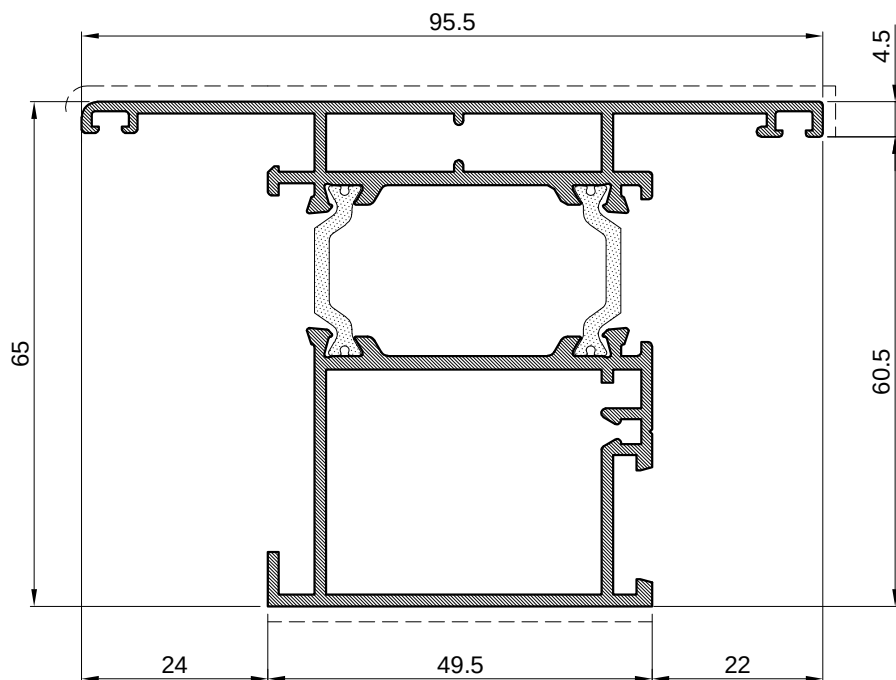


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0201	
Težina Weight	kg/m	1.663
Opseg Perimeter	mm	371
Moment inercije Moment of inertia	I _x (cm ⁴)	22.59
	I _y (cm ⁴)	18.71
	W _x (cm ³)	8
	W _y (cm ³)	4.41
L	mm	6500

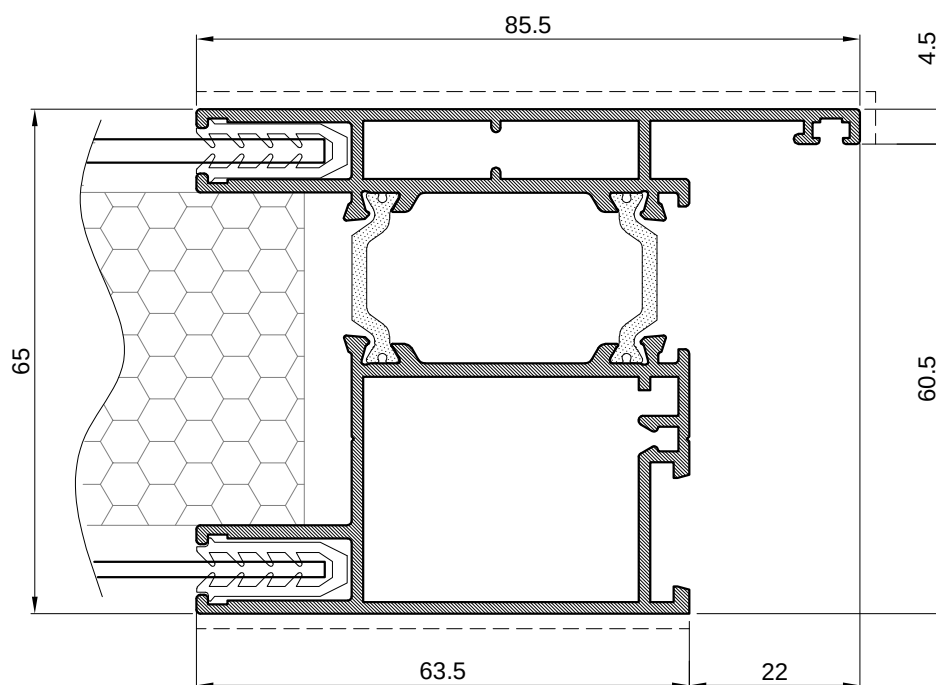


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0225	
Težina Weight	kg/m	1.78
Opseg Perimeter	mm	433
Moment inercije Moment of inertia	I _x (cm ⁴)	27.03
	I _y (cm ⁴)	26.92
	W _x (cm ³)	10.4
	W _y (cm ³)	5.2
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

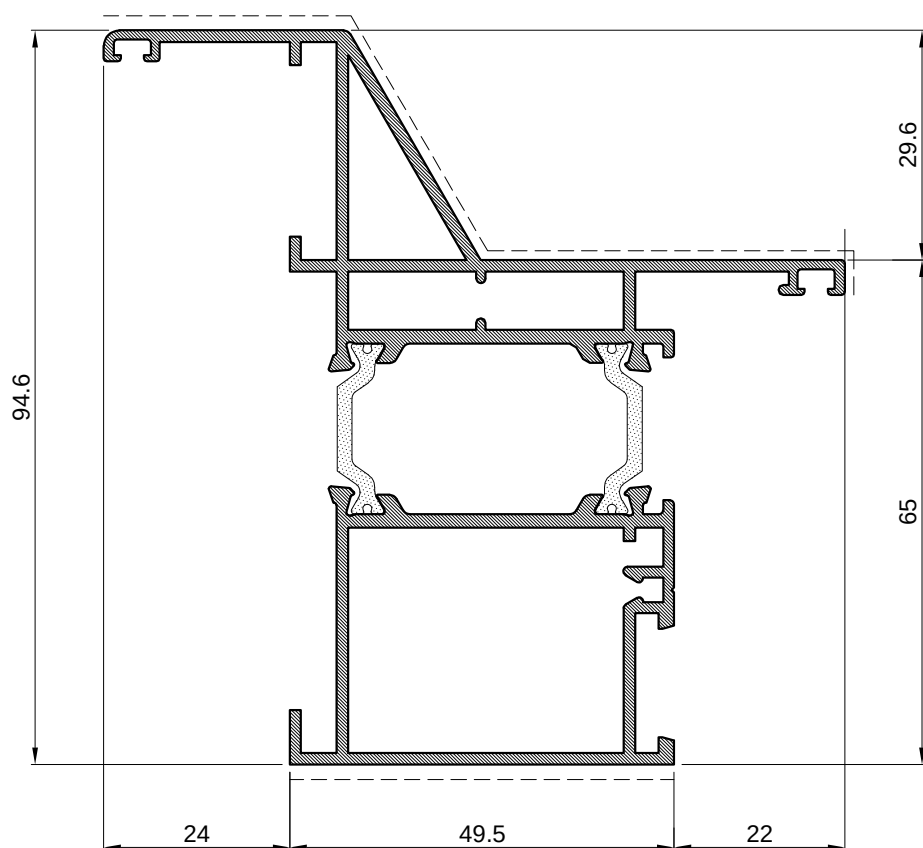


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0214	
Težina Weight	kg/m	1.753
Opseg Perimeter	mm	427
Moment inercije Moment of inertia	Ix (cm ⁴)	24.44
	Iy (cm ⁴)	25.45
	Wx (cm ³)	8.32
	Wy (cm ³)	5.08
L	mm	6500

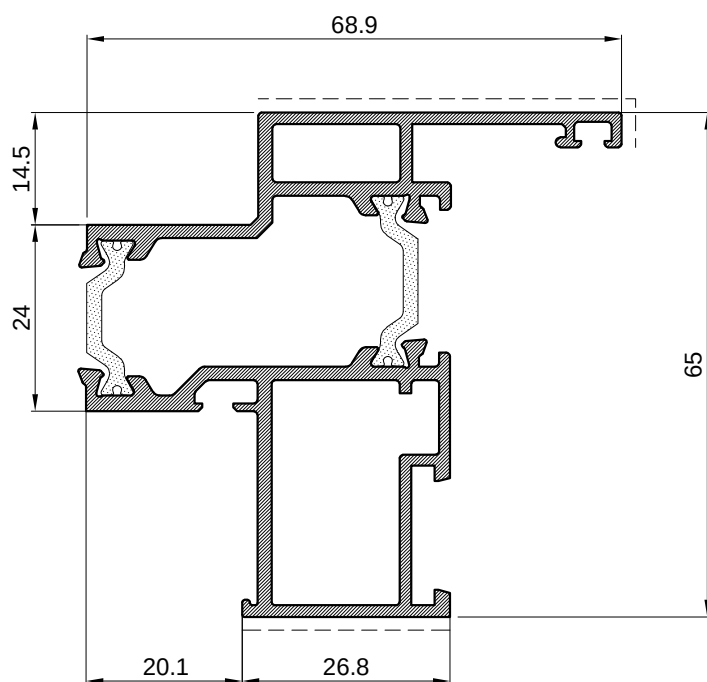


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0231	
Težina Weight	kg/m	1.894
Opseg Perimeter	mm	491
Moment inercije Moment of inertia	Ix (cm ⁴)	27.86
	Iy (cm ⁴)	29.33
	Wx (cm ³)	10.16
	Wy (cm ³)	6.15
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

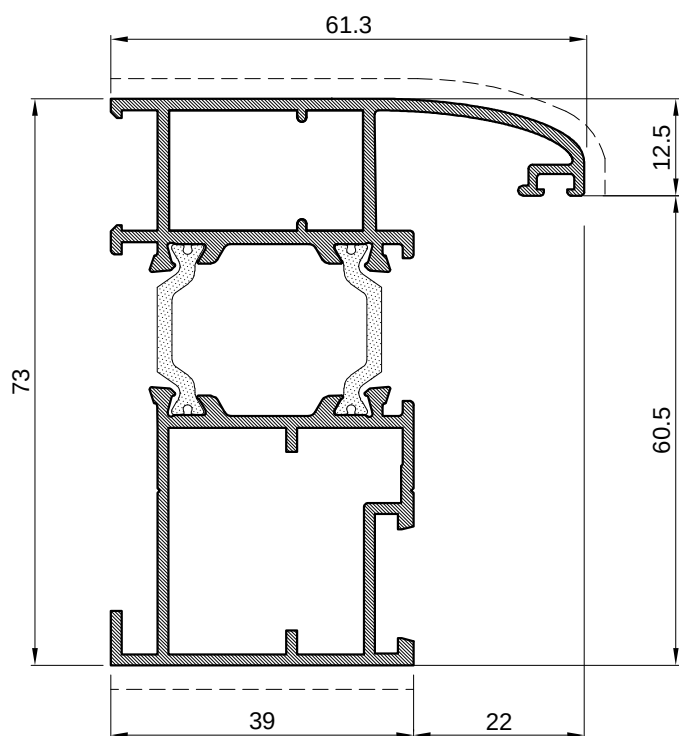


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0232	
Težina Weight	kg/m	2.023
Opseg Perimeter	mm	489
Moment inercije Moment of inertia	Ix (cm ⁴)	44.23
	Iy (cm ⁴)	27.83
	Wx (cm ³)	12.14
	Wy (cm ³)	5.81
L	mm	6500

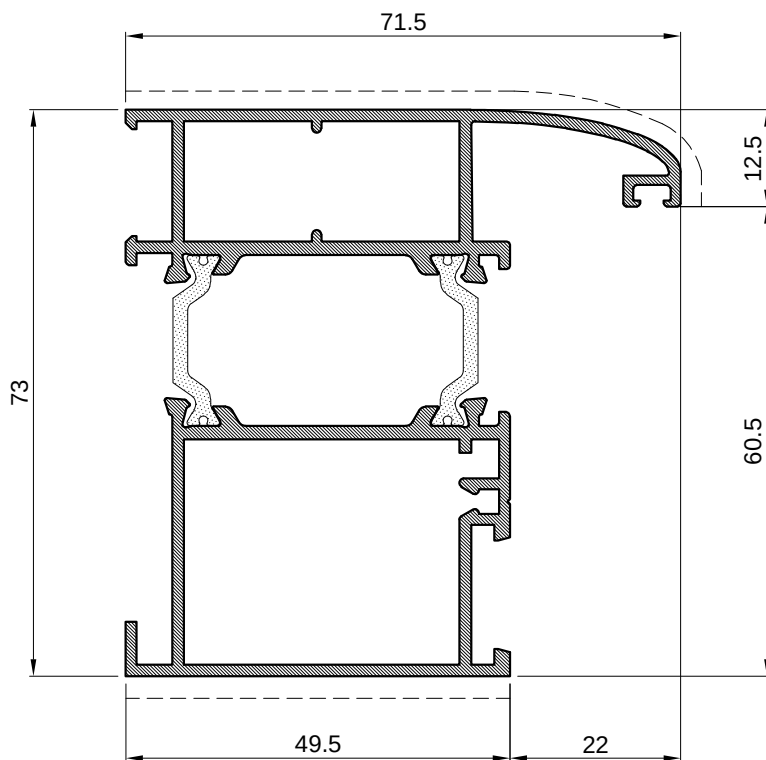


Profil rama u fasadi Frame profile in facade		
Art.Br. Art.Nr.	FT-0261	
Težina Weight	kg/m	1.495
Opseg Perimeter	mm	361
Moment inercije Moment of inertia	Ix (cm ⁴)	16.41
	Iy (cm ⁴)	12.38
	Wx (cm ³)	5.83
	Wy (cm ³)	3.22
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

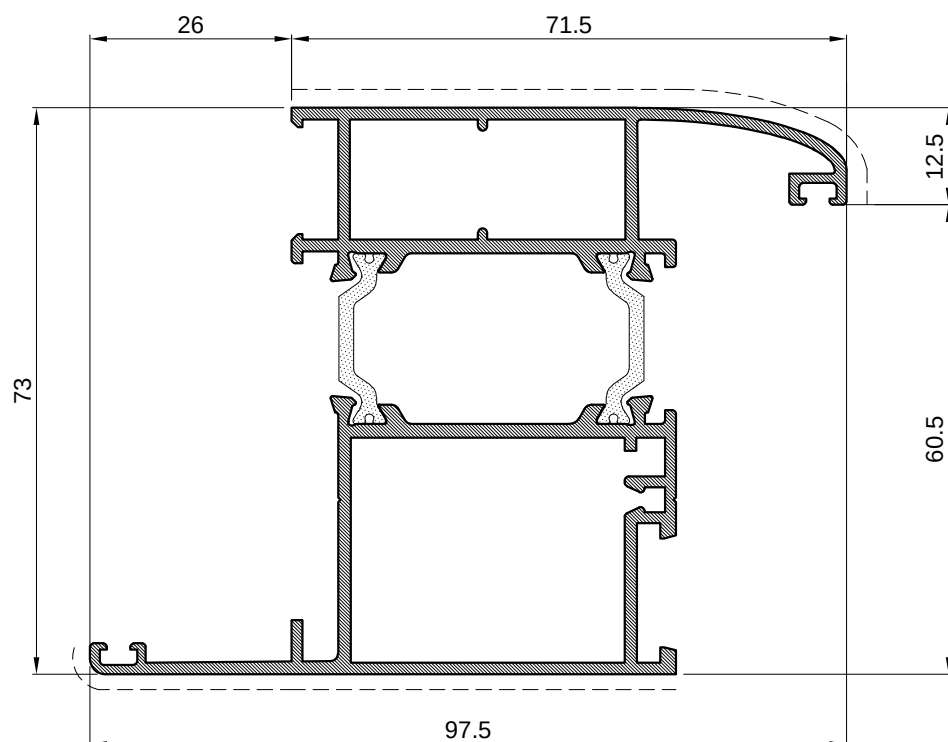


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0234	
Težina Weight	kg/m	1.52
Opseg Perimeter	mm	376
Moment inercije Moment of inertia	I _x (cm ⁴)	24.37
	I _y (cm ⁴)	12.22
	W _x (cm ³)	7.91
	W _y (cm ³)	3.32
L	mm	6500

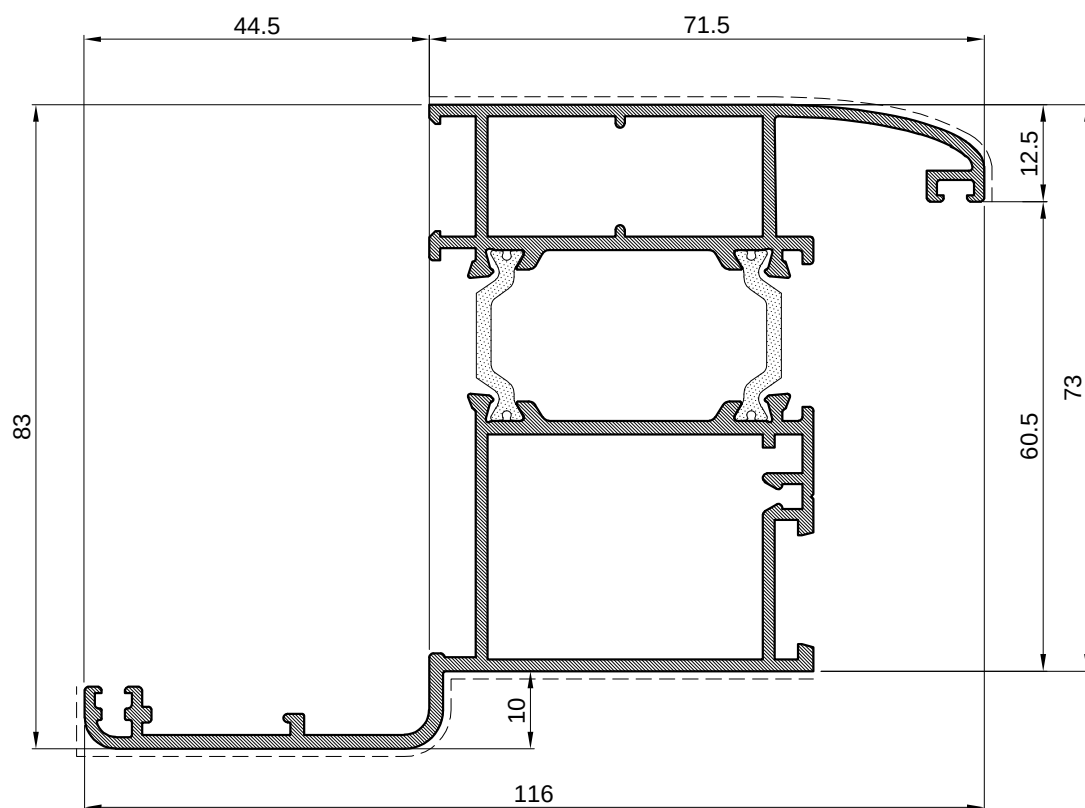


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0224	
Težina Weight	kg/m	1.744
Opseg Perimeter	mm	408
Moment inercije Moment of inertia	I _x (cm ⁴)	28.24
	I _y (cm ⁴)	21.25
	W _x (cm ³)	9.25
	W _y (cm ³)	5.08
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

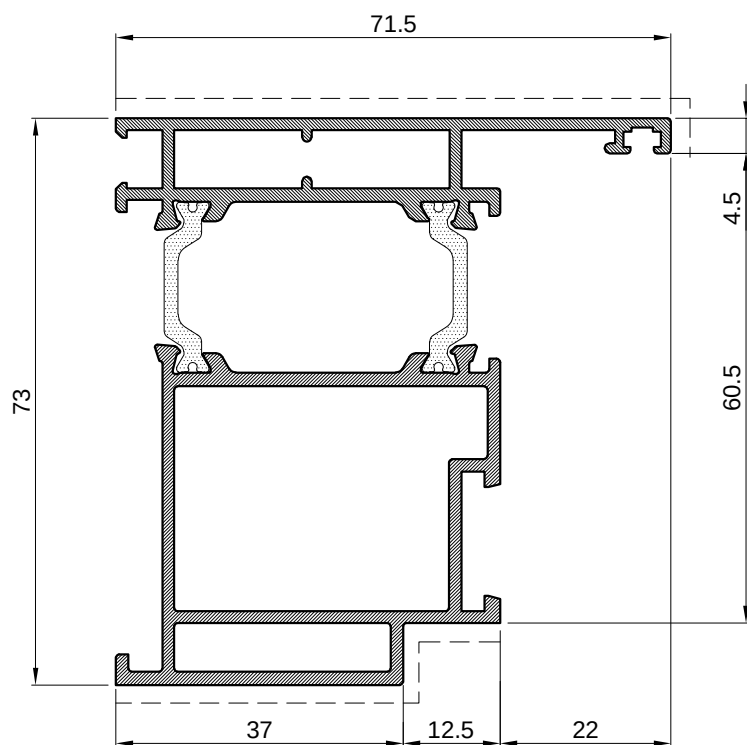


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0229	
Težina Weight	kg/m	1.882
Opseg Perimeter	mm	461
Moment inercije Moment of inertia	Ix (cm4)	33.45
	Iy (cm4)	29.72
	Wx (cm3)	11.86
	Wy (cm3)	5.66
L	mm	6500

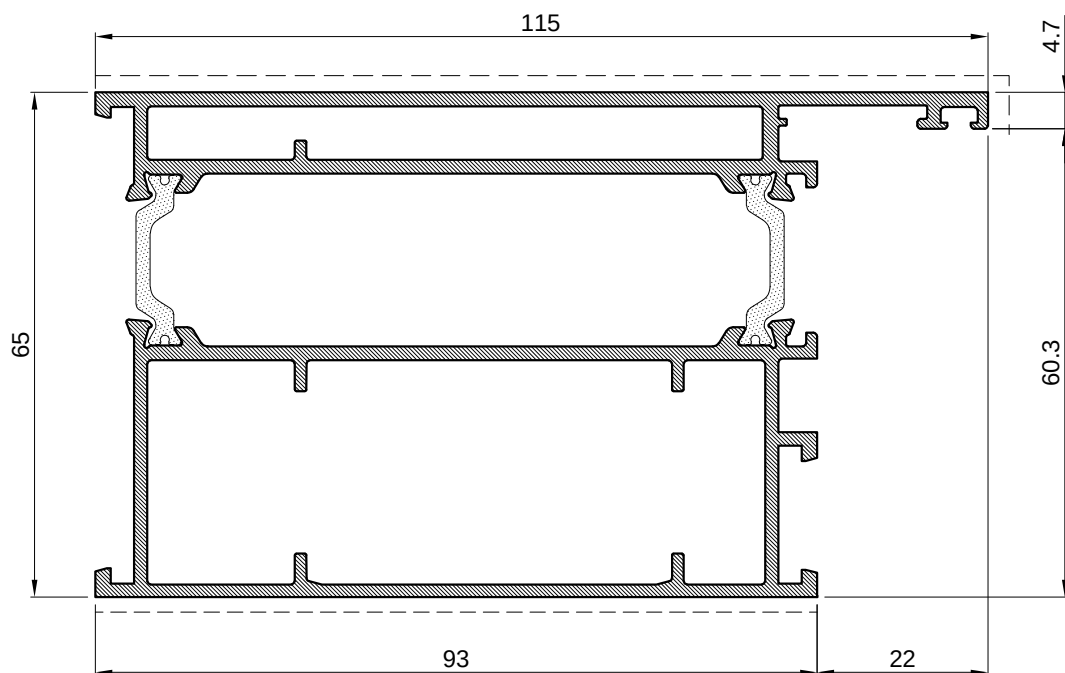


Profil rama Frame profile		
Br.Br.	FT-0249	
Težina Težina	kg/m	2.052
Opseg Perimeter	mm	540
Moment inercije Moment inercije	Ix (cm4)	45.75
	Iy (cm4)	50.35
	Wx (cm3)	14.11
	Wy (cm3)	7.68
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

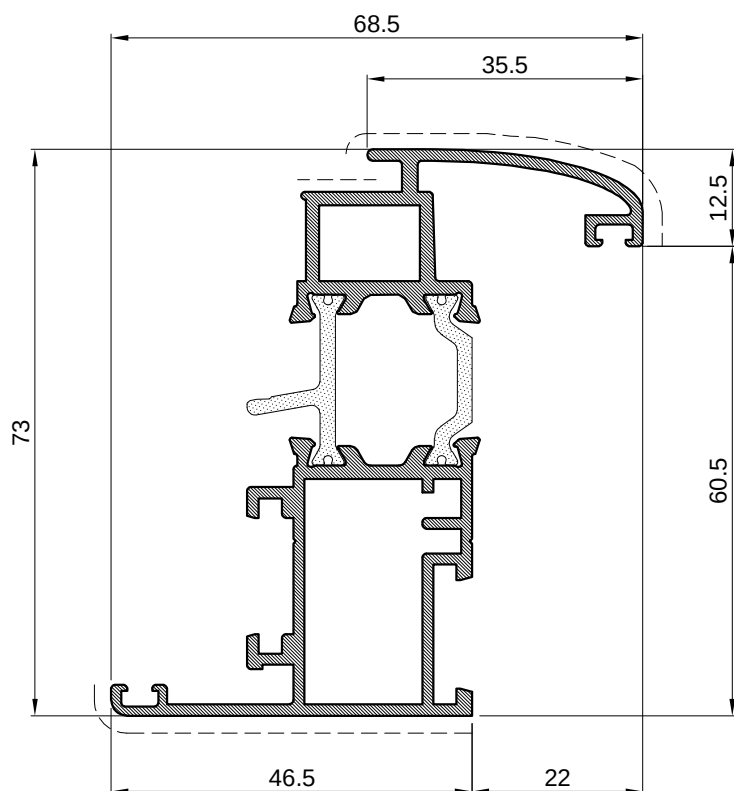


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0274	
Težina Weight	kg/m	1.813
Opseg Perimeter	mm	379
Moment inerције Moment of inertia	I _x (cm ⁴)	32.54
	I _y (cm ⁴)	19.52
	W _x (cm ³)	10.57
	W _y (cm ³)	4.5
L	mm	6500

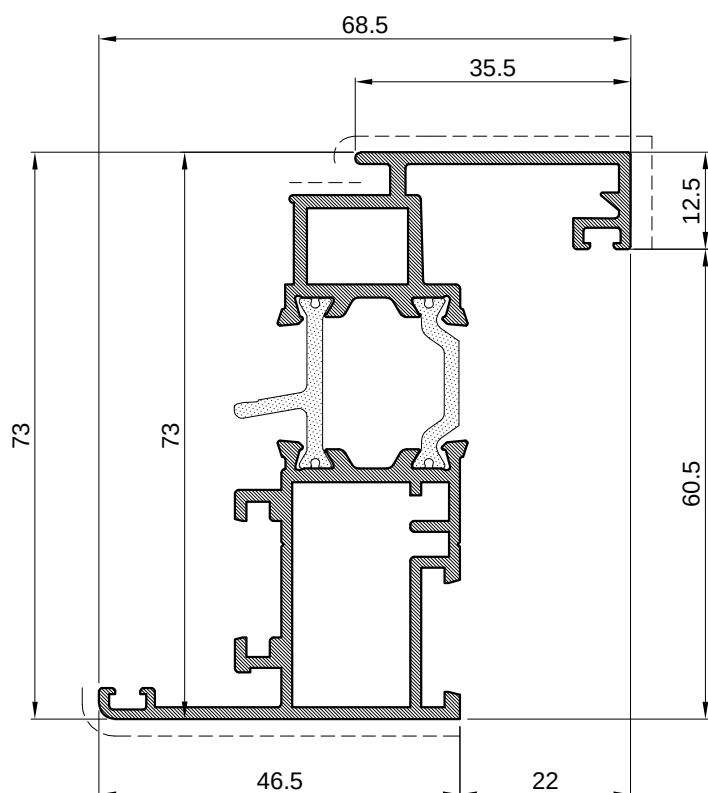


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0297	
Težina Weight	kg/m	2.588
Opseg Perimeter	mm	445
Moment inercije Moment of inertia	I _x (cm ⁴)	39.01
	I _y (cm ⁴)	94.25
	W _x (cm ³)	13.7
	W _y (cm ³)	14.82
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

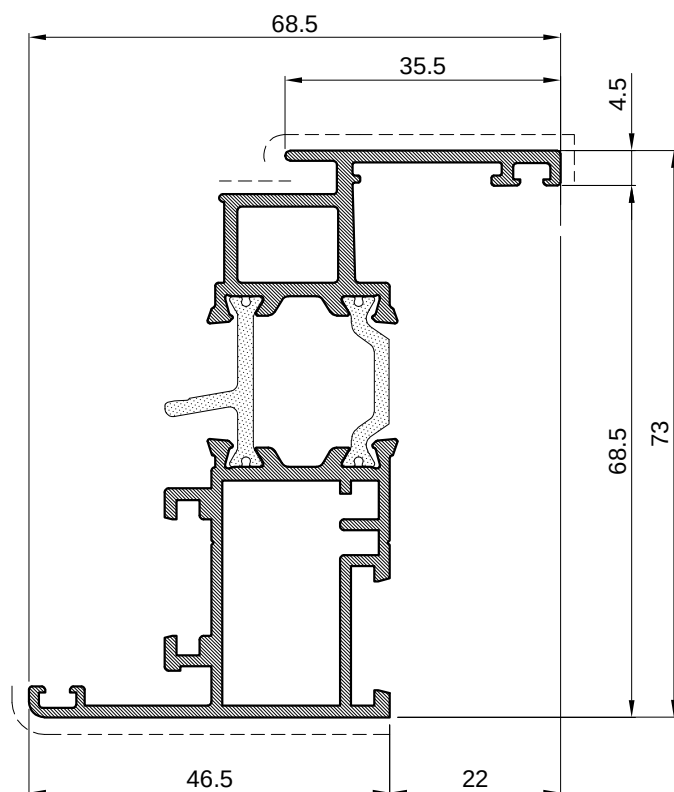


Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0203	
Težina Weight	kg/m	1.488
Opseg Perimeter	mm	421
Moment inerције Moment of inertia	I _x (cm ⁴)	23.56
	I _y (cm ⁴)	9.02
	W _x (cm ³)	8.51
	W _y (cm ³)	2.58
L	mm	6500



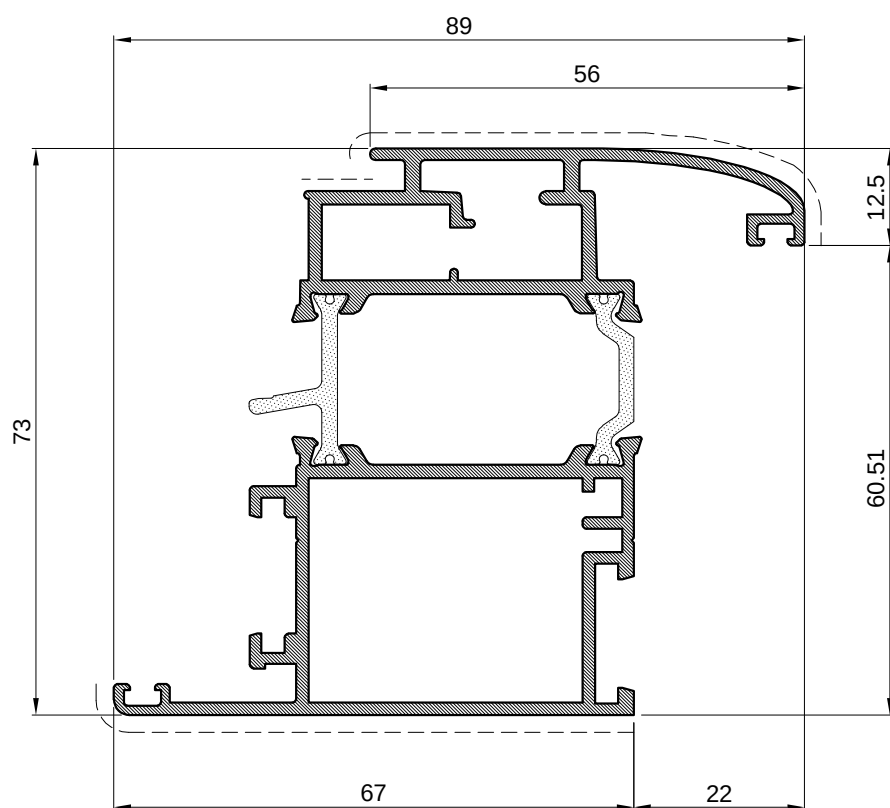
Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0221	
Težina Weight	kg/m	1.514
Opseg Perimeter	mm	431
Moment inerције Moment of inertia	I _x (cm ⁴)	24.65
	I _y (cm ⁴)	10.17
	W _x (cm ³)	8.84
	W _y (cm ³)	2.58
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



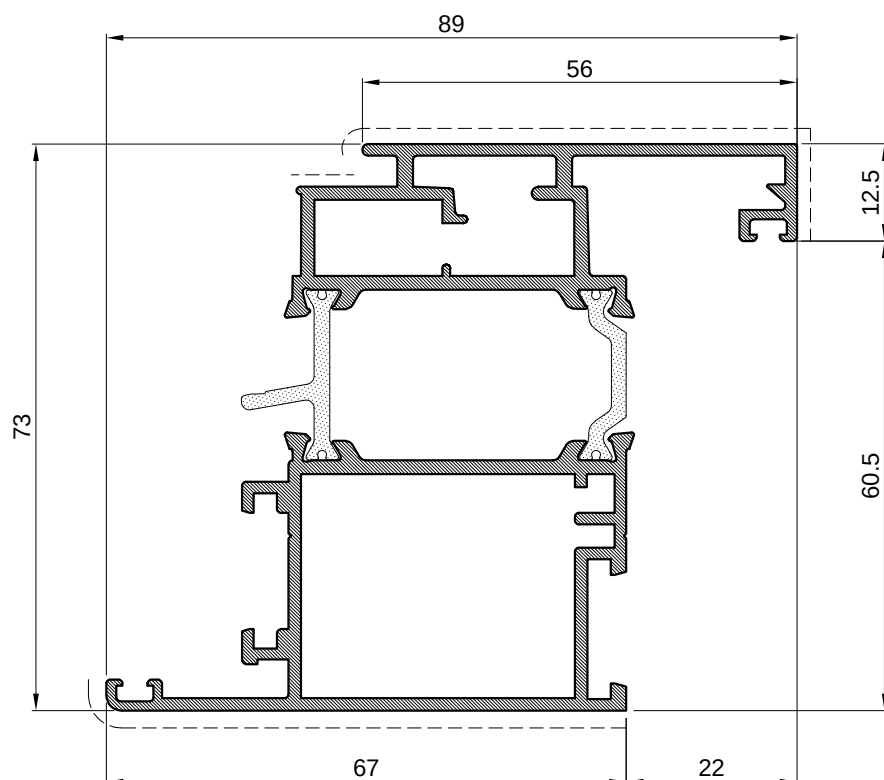
Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0295	
Težina Weight	kg/m	1.455
Opseg Perimeter	mm	412
Moment inercije Moment of inertia	Ix (cm4)	23.8
	Iy (cm4)	8.23
	Wx (cm3)	8.55
	Wy (cm3)	2.38
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
 PROFILE WITH XPS HAVE ENDING „F”



Profil krila Sash profile

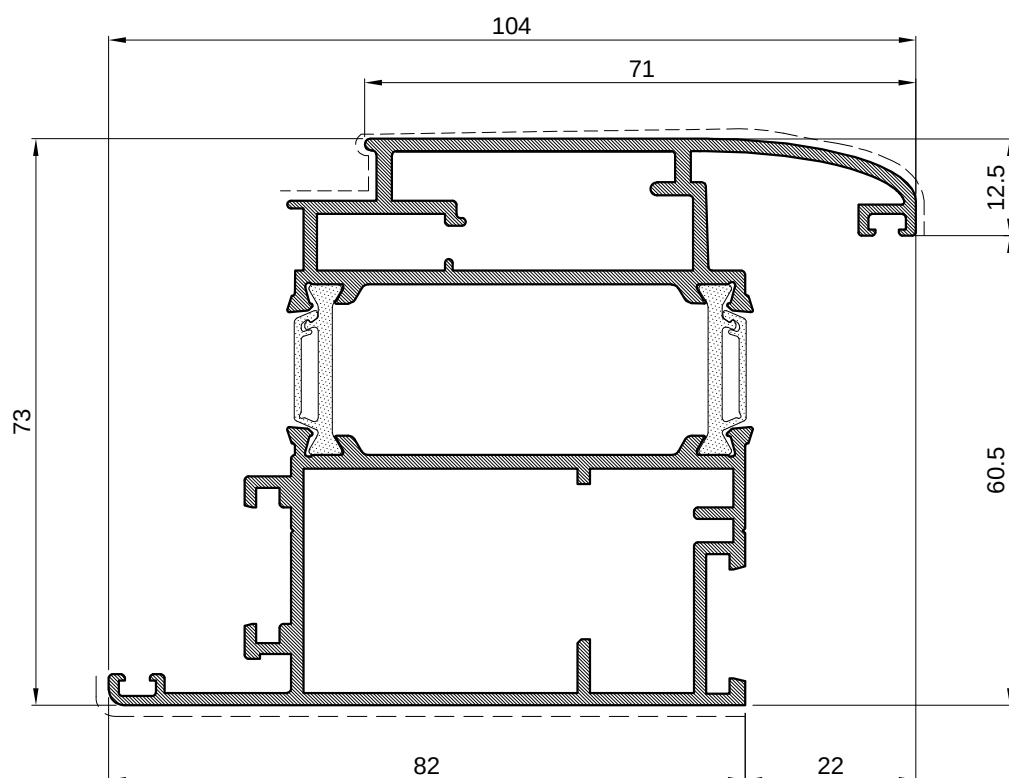
Art.Br. Art.Nr.	FT-0204	
Težina Weight	kg/m	1.97
Opseg Perimeter	mm	463
Moment inercije Moment of inertia	Ix (cm ⁴)	33.51
	Iy (cm ⁴)	26.23
	Wx (cm ³)	11.75
	Wy (cm ³)	5.79
L	mm	6500



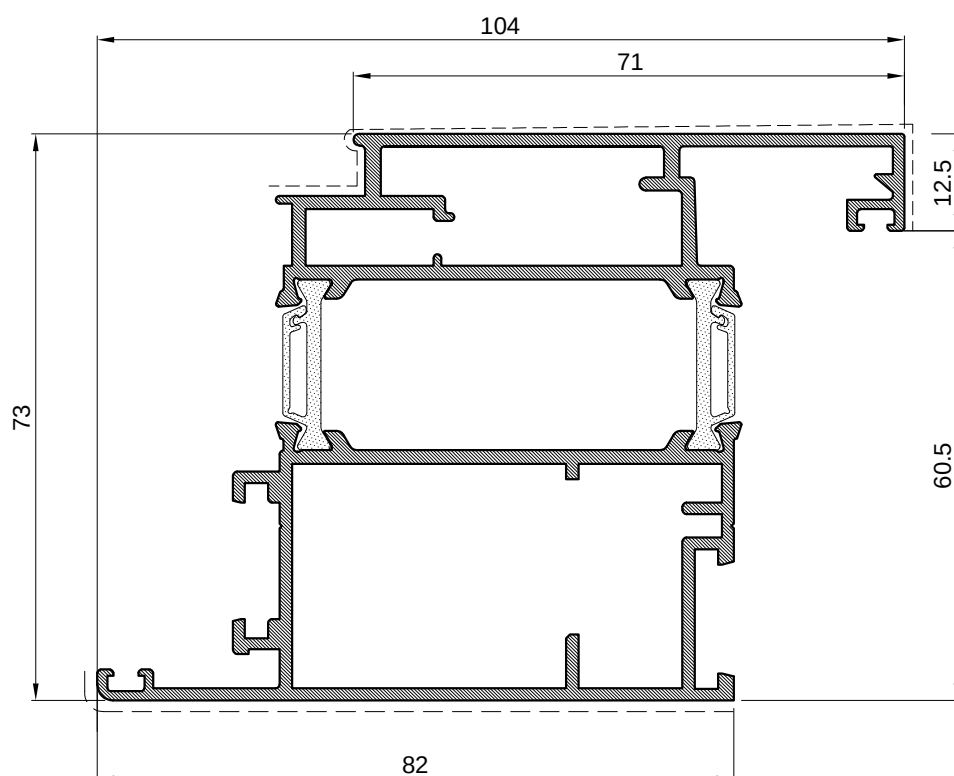
Profil krila Sash profile

Art.Br. Art.Nr.	FT-0230	
Težina Weight	kg/m	2.011
Opseg Perimeter	mm	479
Moment inercije Moment of inertia	Ix (cm ⁴)	34.54
	Iy (cm ⁴)	28.24
	Wx (cm ³)	11.94
	Wy (cm ³)	6.14
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

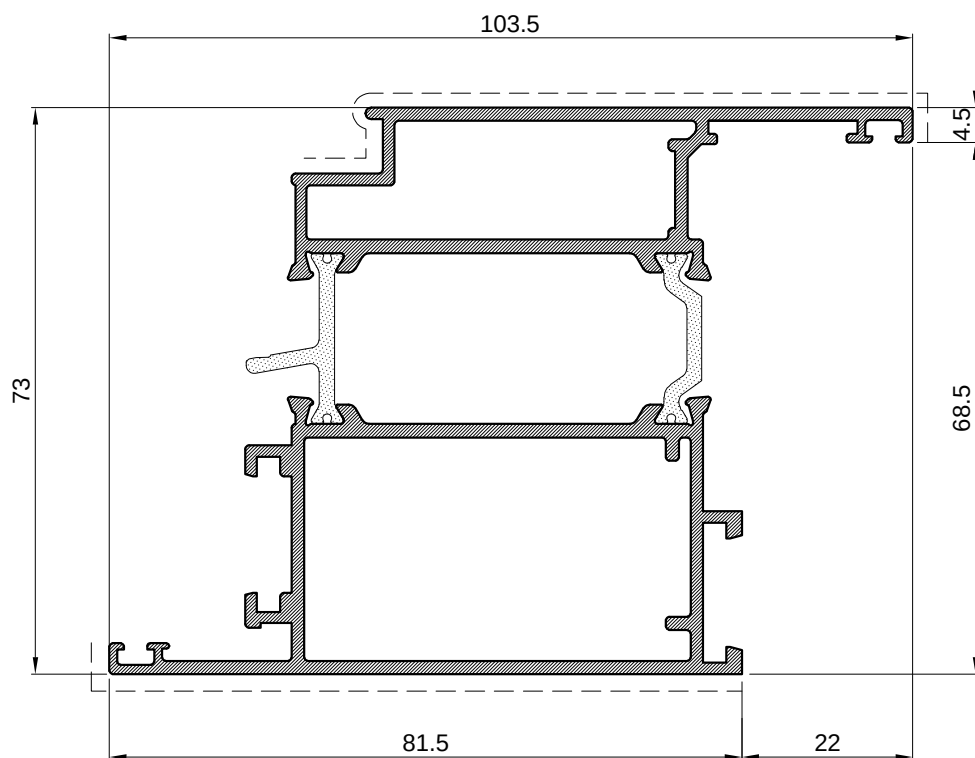


Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0218	
Težina Weight	519	2.288
Opseg Perimeter	mm	484
Moment inercije Moment of inertia	Ix (cm4)	39.85
	Iy (cm4)	47.91
	Wx (cm3)	13.97
	Wy (cm3)	9.07
L	mm	6500

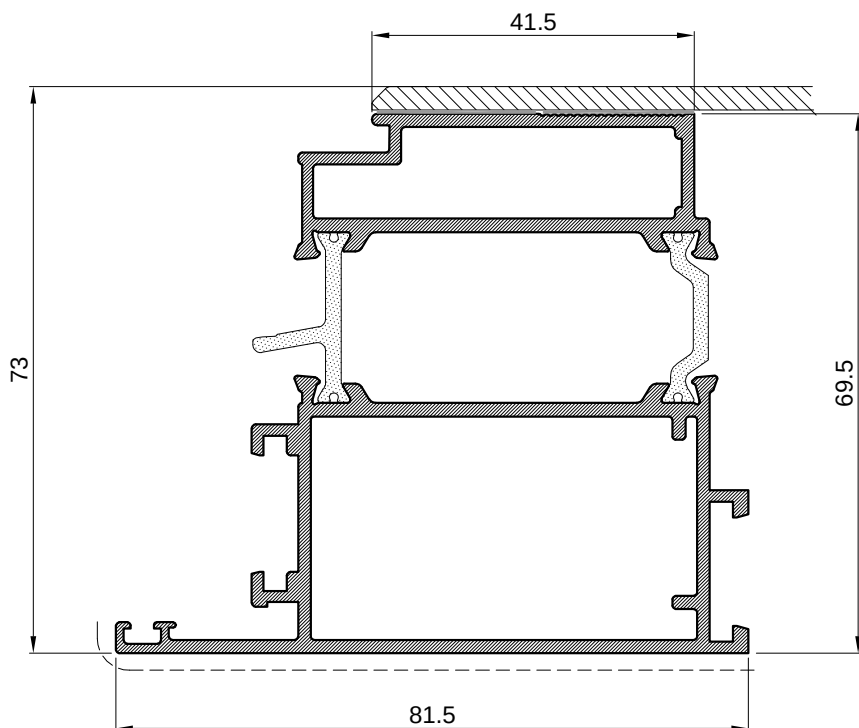


Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0247	
Težina Weight	kg/m	2.317
Opseg Perimeter	mm	472
Moment inercije Moment of inertia	Ix (cm4)	40.94
	Iy (cm4)	50.64
	Wx (cm3)	14.18
	Wy (cm3)	9.46
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

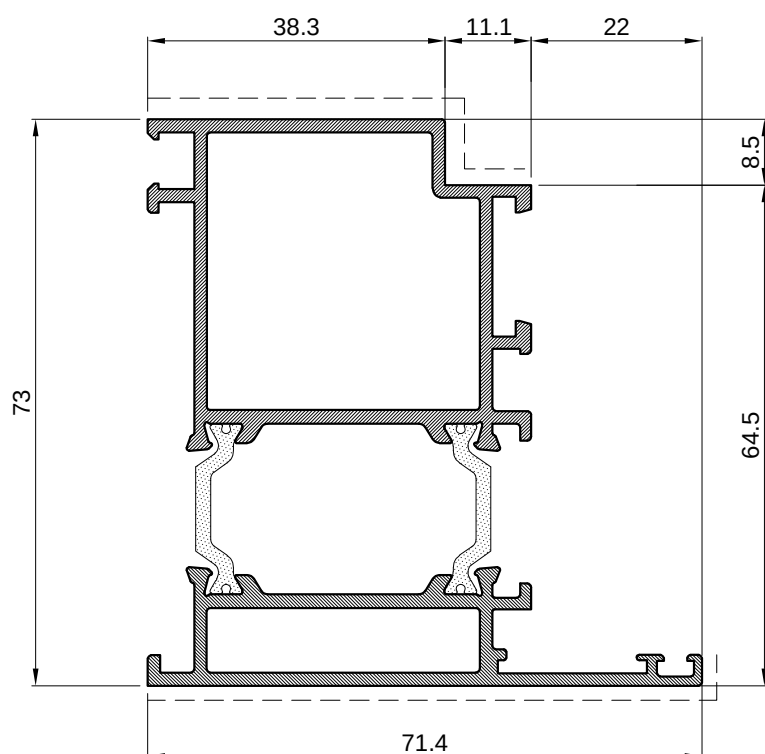


Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0275	
Težina Weight	kg/m	2.12
Opseg Perimeter	mm	499
Moment inercije Moment of inertia	Ix (cm4)	38.51
	Iy (cm4)	42.12
	Wx (cm3)	13.93
	Wy (cm3)	8.05
L	mm	6500



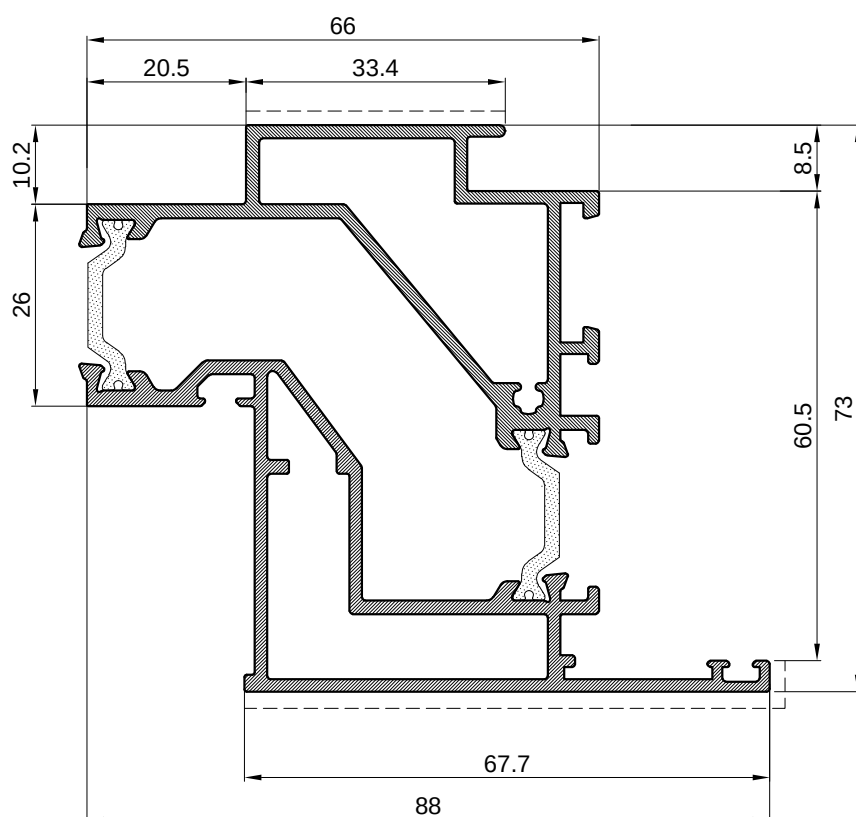
Profil krila Sash profile		
Art.Br. Art.Nr.	FT-0291	
Težina Weight	kg/m	1.915
Opseg Perimeter	mm	371
Moment inercije Moment of inertia	Ix (cm4)	29.68
	Iy (cm4)	30.87
	Wx (cm3)	10.38
	Wy (cm3)	6.52
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Profil rama, otvaranje vani
Frame profile, outward opening

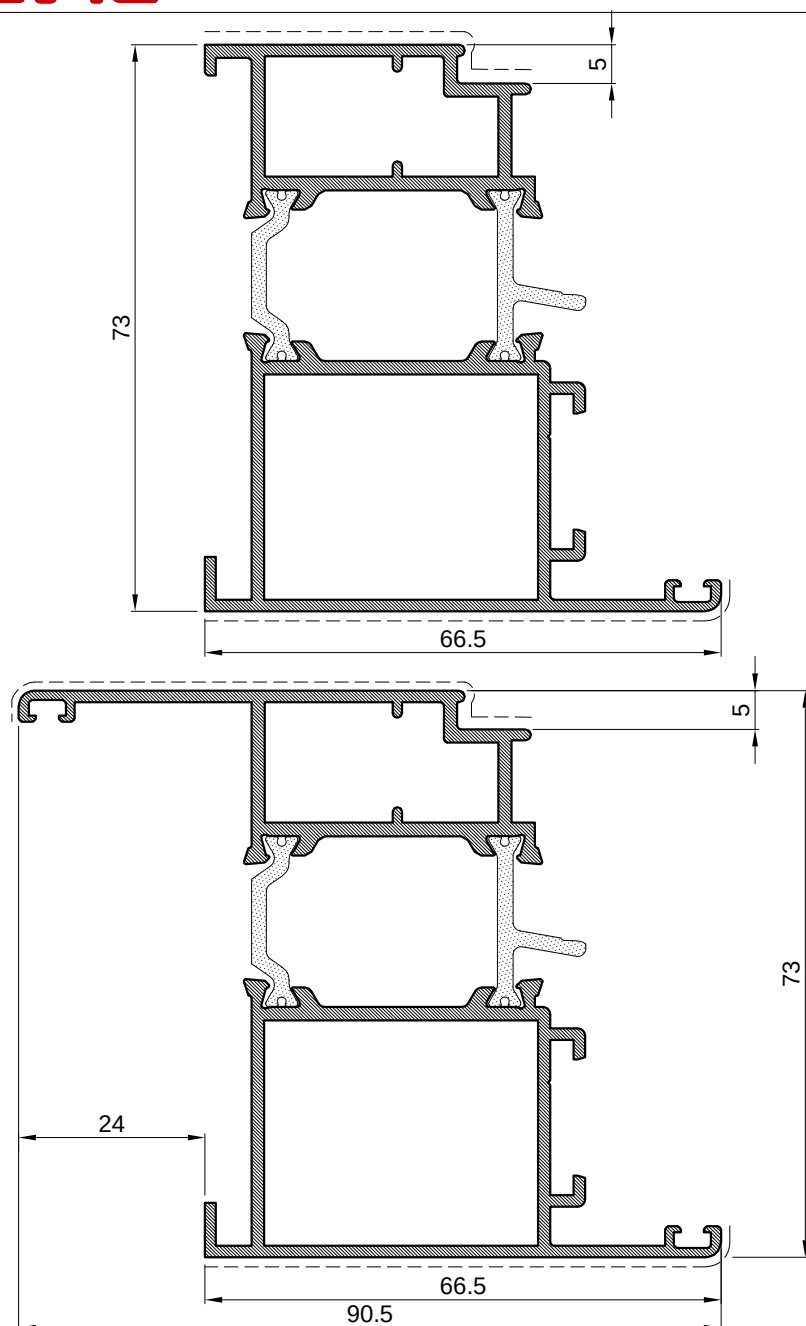
Art.Br. Art.Nr.	FT-0278	
Težina Weight	kg/m	1.736
Opseg Perimeter	mm	387
Moment inerције Moment of inertia	Ix (cm4)	30.15
	Iy (cm4)	18.79
	Wx (cm3)	9.47
	Wy (cm3)	4.35
L	mm	6500



Profil rama u fasadi -otv.vani
Frame profile in
facade-outward opening

Art.Br. Art.Nr.	FT-0290	
Težina Weight	kg/m	2.14
Opseg Perimeter	mm	440
Moment inerције Moment of inertia	Ix (cm4)	34.33
	Iy (cm4)	31.3
	Wx (cm3)	9.01
	Wy (cm3)	6.52
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Profil rama, otvaranje vani
Frame profile, outward opening

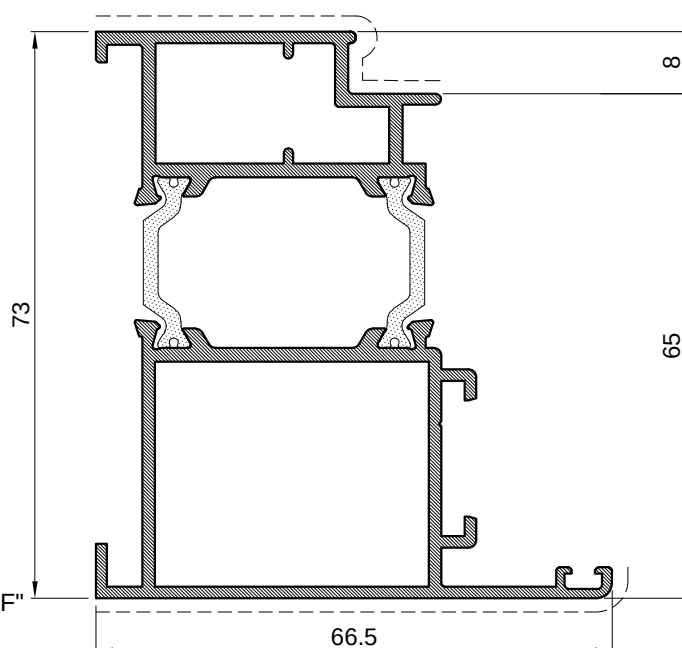
Art.Br. Art.Nr.	FT-0202	
Težina Weight	kg/m	1.631
Opseg Perimeter	mm	373
Moment inercije Moment of inertia	Ix (cm4)	26.71
	Iy (cm4)	14.88
	Wx (cm3)	9.11
	Wy (cm3)	3.7
L	mm	6500

Profil krila-otvaranje vani
Sash profile-outward opening

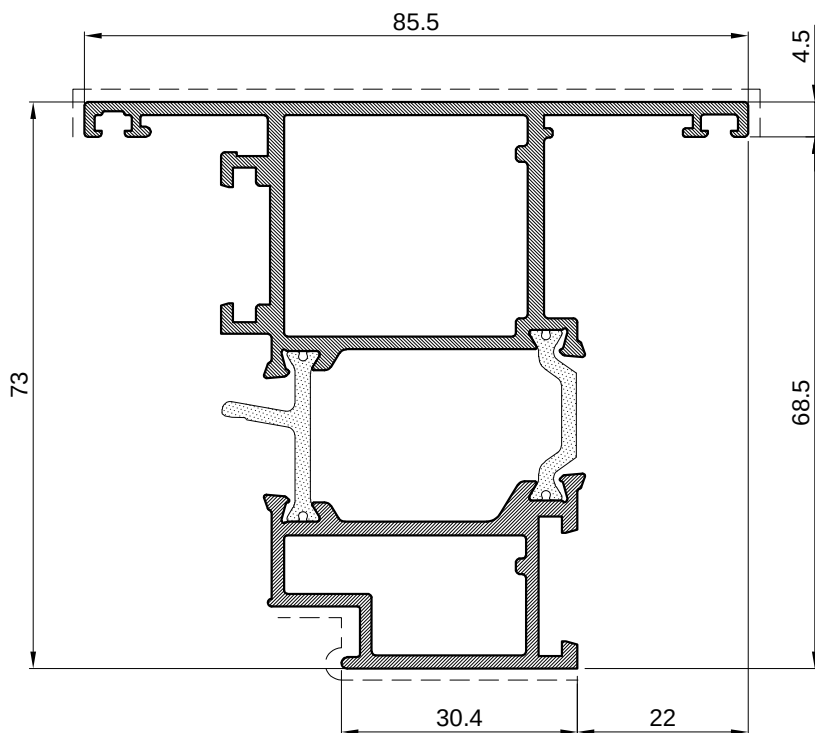
Art.Br. Art.Nr.	FT-0215	
Težina Weight	kg/m	1.699
Opseg Perimeter	mm	430
Moment inercije Moment of inertia	Ix (cm4)	30.2
	Iy (cm4)	20.77
	Wx (cm3)	10.85
	Wy (cm3)	4.36
L	mm	6500

Profil rama-otvaranje vani
Frame profile-outward
opening

Art.Br. Art.Nr.	FT-0220	
Težina Weight	kg/m	1.596
Opseg Perimeter	mm	354
Moment inercije Moment of inertia	Ix (cm4)	26.73
	Iy (cm4)	14.92
	Wx (cm3)	9.14
	Wy (cm3)	3.72
L	mm	6500

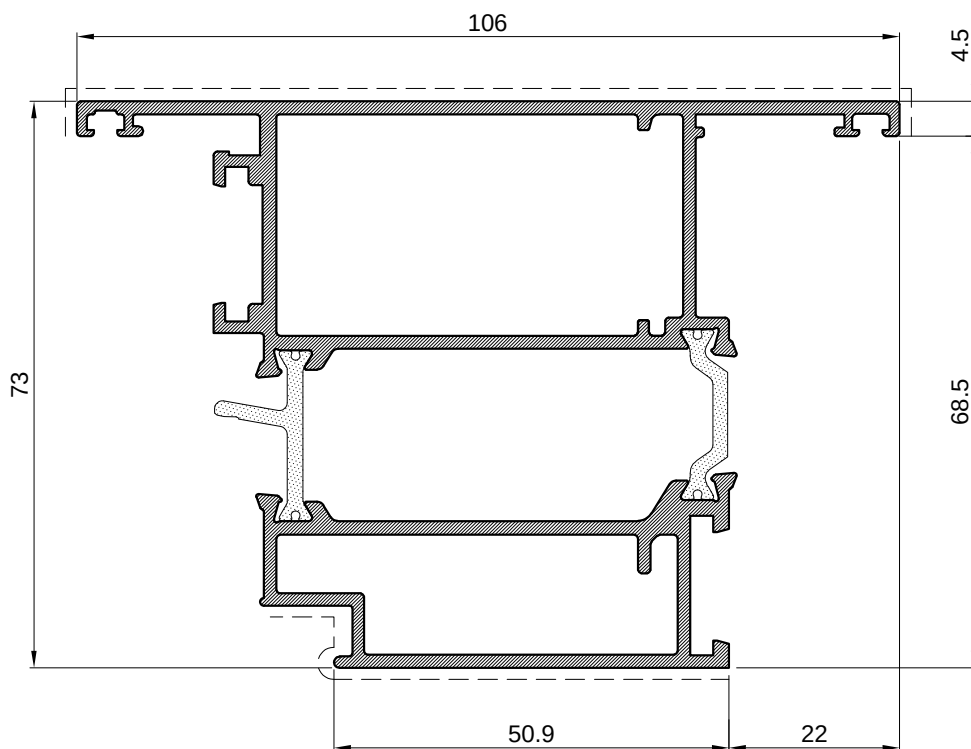


PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Profil krila, otvaranje vani
Sash profile, outward opening

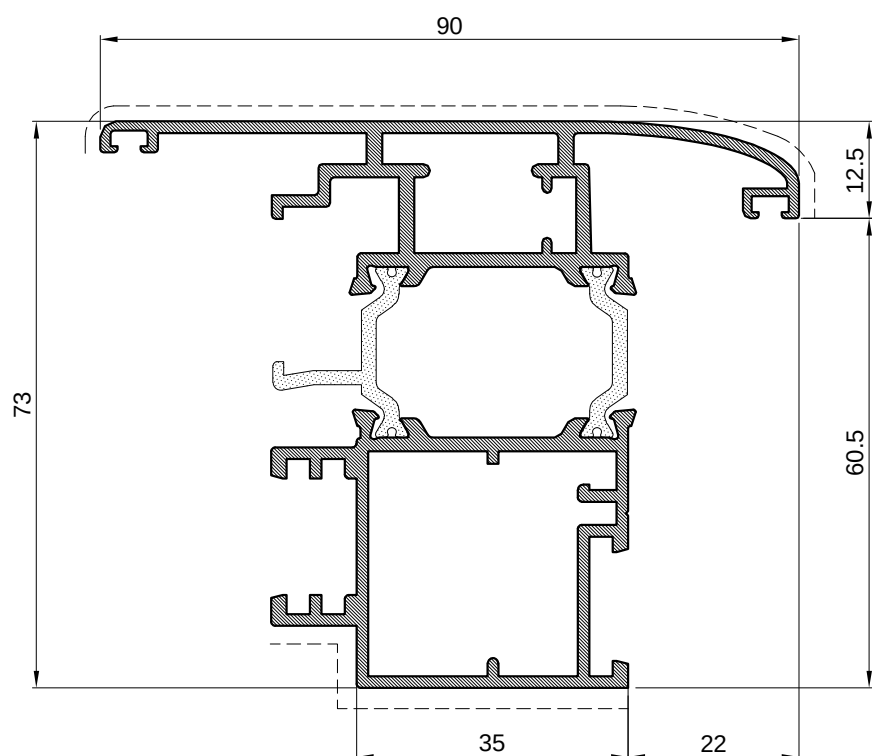
Art.Br. Art.Nr.	FT-0283	
Težina Weight	kg/m	1.876
Opseg Perimeter	mm	422
Moment inerције Moment of inertia	Ix (cm ⁴)	31.49
	Iy (cm ⁴)	21.88
	Wx (cm ³)	9.88
	Wy (cm ³)	5.09
L	mm	6500



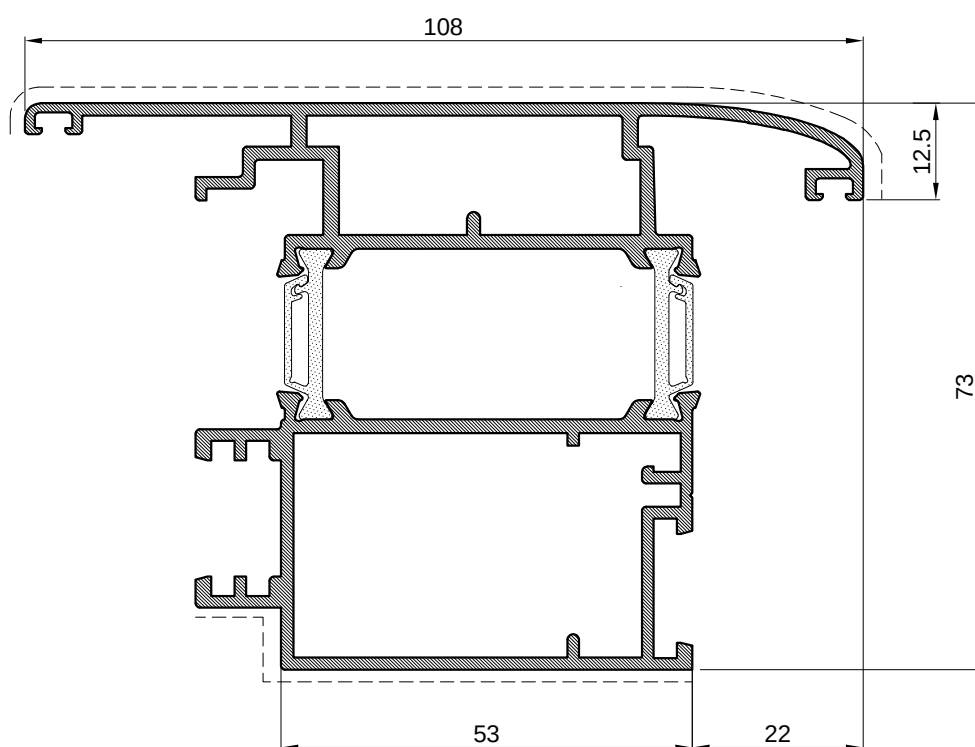
Profil krila, otvaranje vani
Sash profile, outward opening

Art.Br. Art.Nr.	FT-0279	
Težina Weight	kg/m	2.24
Opseg Perimeter	mm	496
Moment inercije Moment of inertia	Ix (cm ⁴)	39.8
	Iy (cm ⁴)	49.66
	Wx (cm ³)	13.12
	Wy (cm ³)	9.3
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

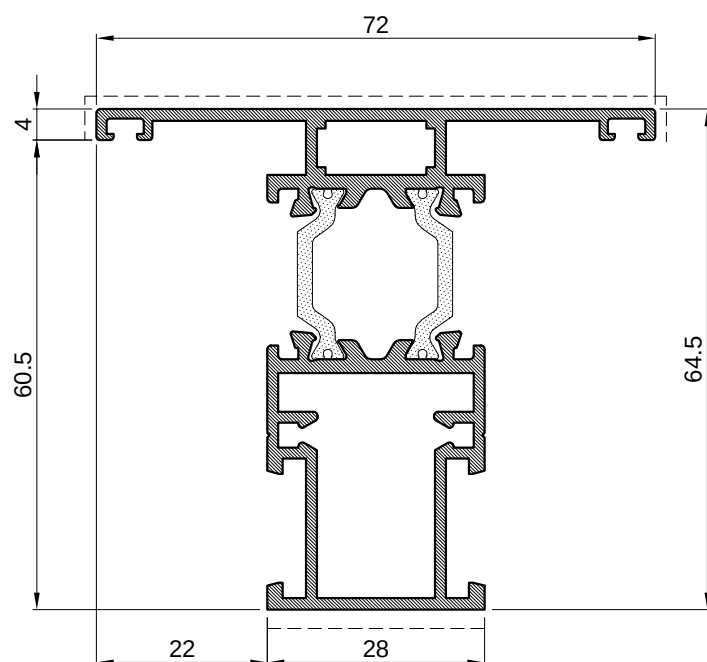


Profil krila-otvaranje vani Sash profile-outward opening		
Art.Br. Art.Nr.	FT-0210	
Težina Weight	kg/m	2.004
Opseg Perimeter	mm	530
Moment inercije Moment of inertia	Ix (cm ⁴)	31.21
	Iy (cm ⁴)	23.21
	Wx (cm ³)	9.66
	Wy (cm ³)	4.93
L	mm	6500

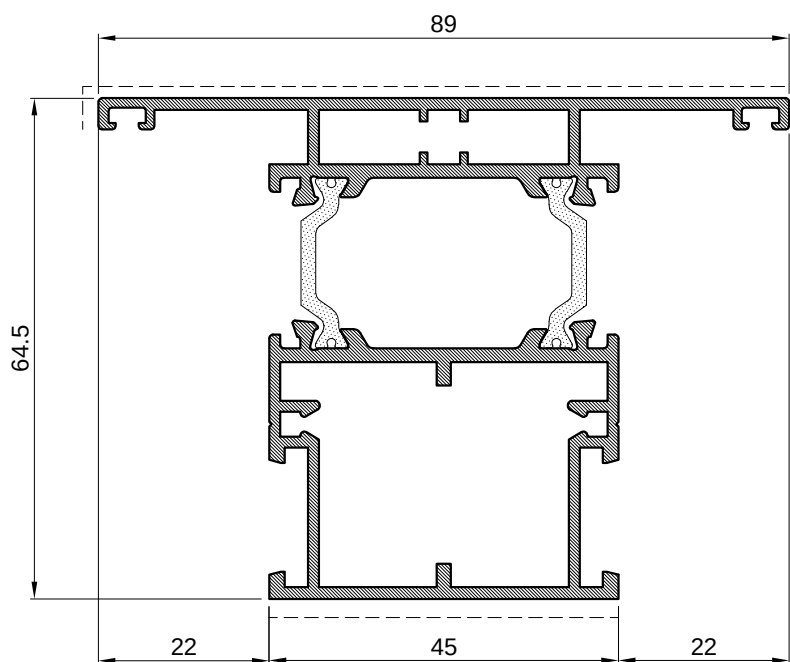


Profil krila-otvaranje vani Sash profile-outside opening		
Art.Br. Art.Nr.	FT-0219	
Težina Weight	kg/m	2.34
Opseg Perimeter	mm	547
Moment inercije Moment of inertia	Ix (cm ⁴)	38.49
	Iy (cm ⁴)	49.45
	Wx (cm ³)	12.06
	Wy (cm ³)	8.82
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

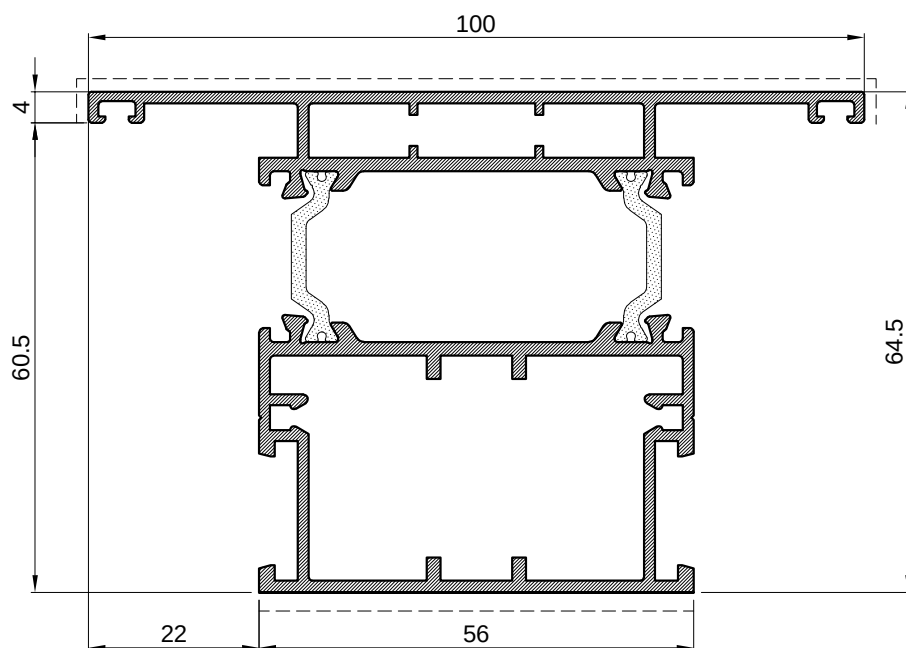


Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0205	
Težina Weight	kg/m	1.425
Opseg Perimeter	mm	379
Moment inercije Moment of inertia	Ix (cm ⁴)	17.78
	Iy (cm ⁴)	8.91
	Wx (cm ³)	6.14
	Wy (cm ³)	2.47
L	mm	6500

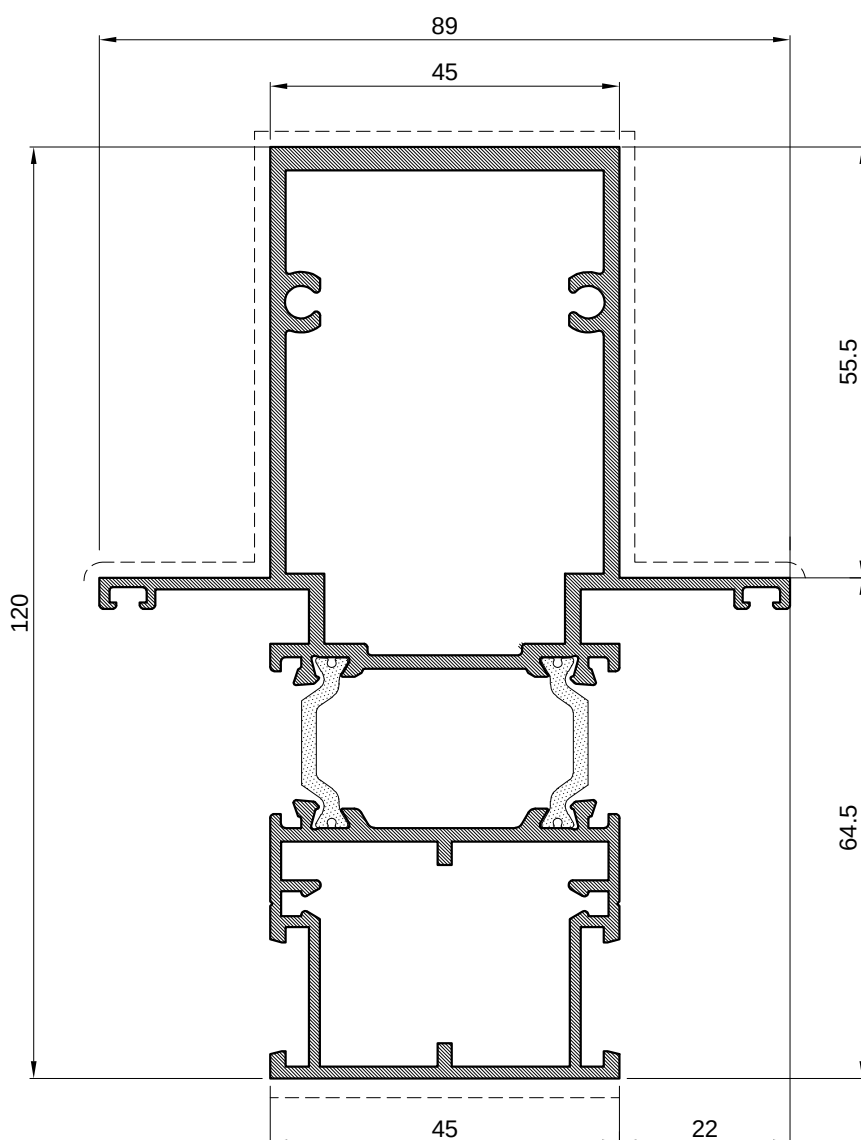


Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0206	
Težina Weight	kg/m	1.789
Opseg Perimeter	mm	410
Moment inercije Moment of inertia	Ix (cm ⁴)	23.17
	Iy (cm ⁴)	21.51
	Wx (cm ³)	8.05
	Wy (cm ³)	4.83
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

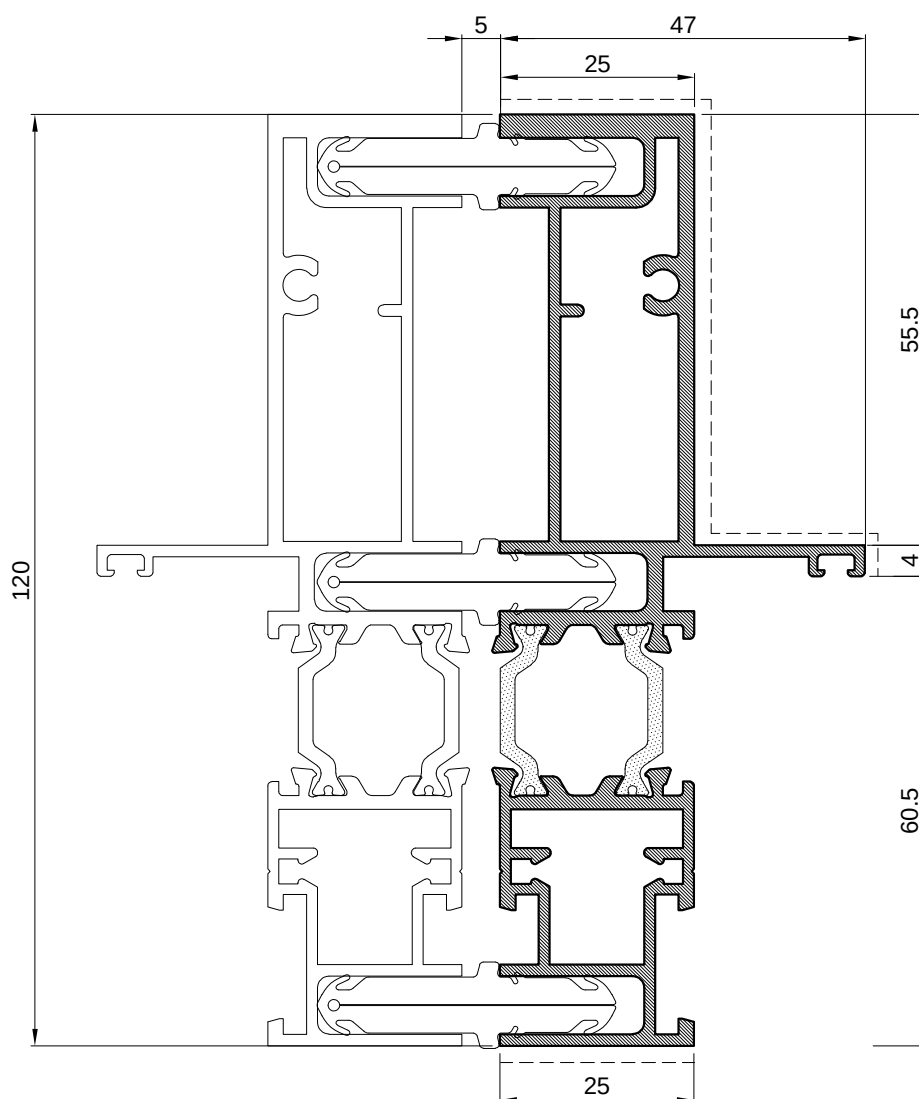


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	FT-2620	
Težina Weight	kg/m	1.977
Opseg Perimeter	mm	554
Moment inerције Moment of inertia	I _x (cm ⁴)	26.8
	I _y (cm ⁴)	34.03
	W _x (cm ³)	9.37
	W _y (cm ³)	6.81
L	mm	6500



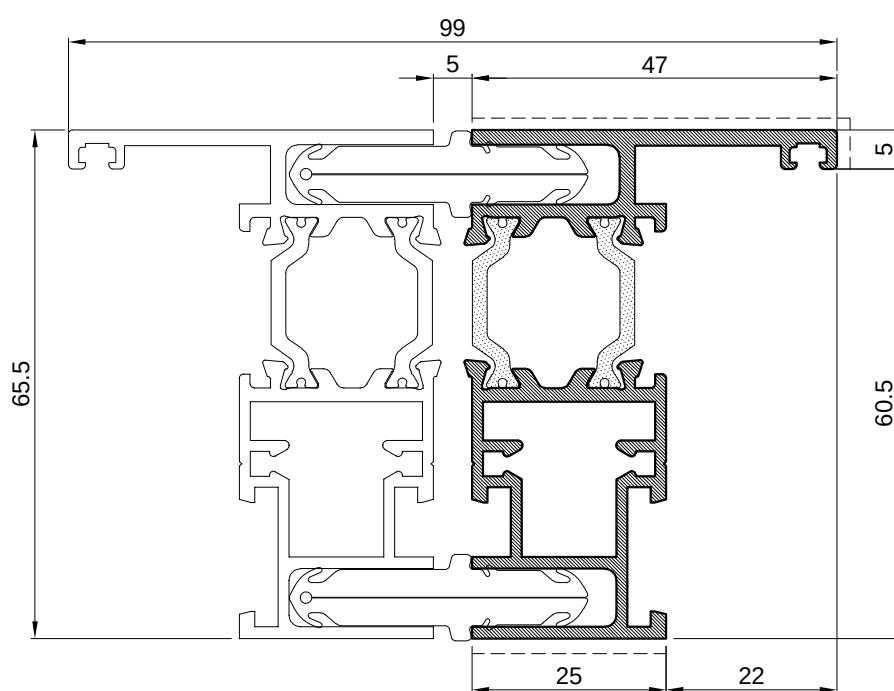
Profil ojačane prečke Window mullion reinforcement		
Art.Br. Art.Nr.	FT-0209	
Težina Weight	kg/m	2.679
Opseg Perimeter	mm	520
Moment inerције Moment of inertia	I _x (cm ⁴)	108
	I _y (cm ⁴)	34.73
	W _x (cm ³)	21.62
	W _y (cm ³)	7.8
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Vezni profil s ojačanjem
Connection profile-reinforcement

Art.Br. Art.Nr.	FT-0226	
Težina Weight	kg/m	2.027
Opseg Perimeter	mm	516
Moment inercije Moment of inertia	Ix (cm ⁴)	80.44
	Iy (cm ⁴)	6.66
	Wx (cm ³)	16.34
	Wy (cm ³)	2.1
L	mm	6500



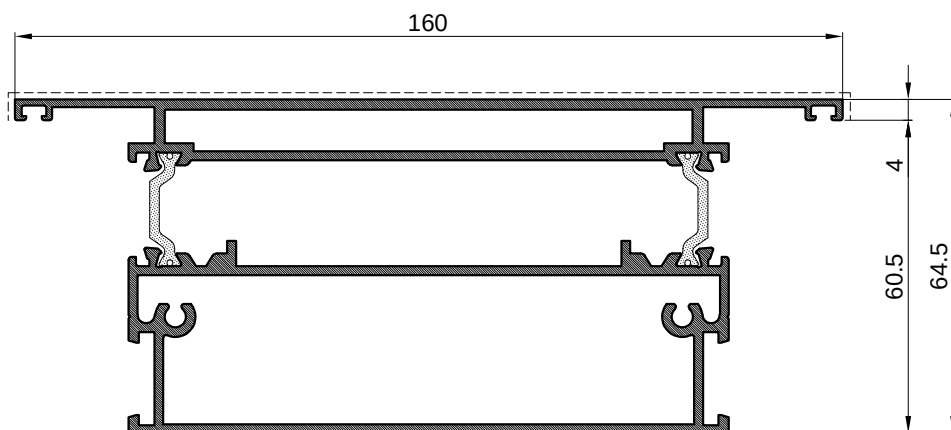
Vezni profil
Connection profile

Art.Br. Art.Nr.	FT-0227	
Težina Weight	kg/m	1.311
Opseg Perimeter	mm	386
Moment inercije Moment of inertia	Ix (cm ⁴)	16.5
	Iy (cm ⁴)	5.42
	Wx (cm ³)	6
	Wy (cm ³)	1.73
L	mm	6500

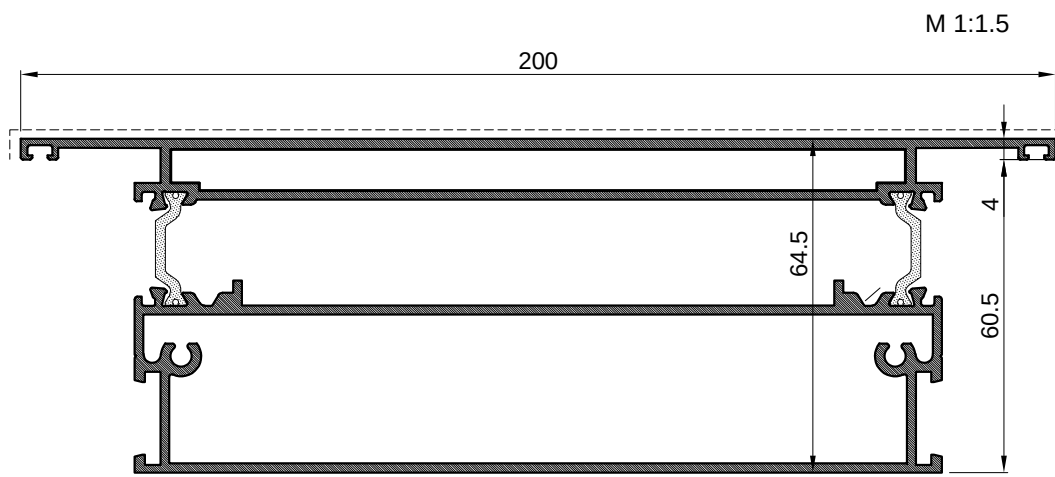
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

M 1:1.5

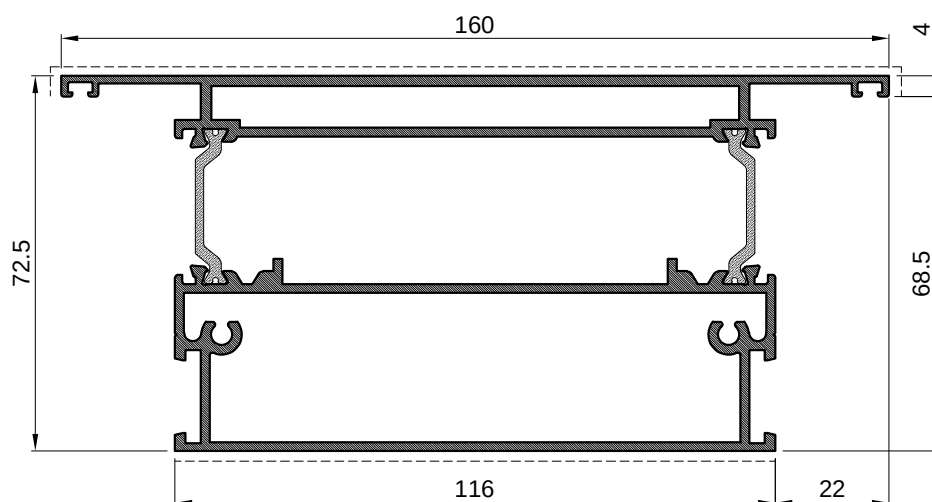
Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0207	
Težina Weight	kg/m	3.45
Opseg Perimeter	mm	559
Moment inerције Moment of inertia	I _x (cm ⁴)	48.28
	I _y (cm ⁴)	209.94
	W _x (cm ³)	16.84
	W _y (cm ³)	26.24
L	mm	6500



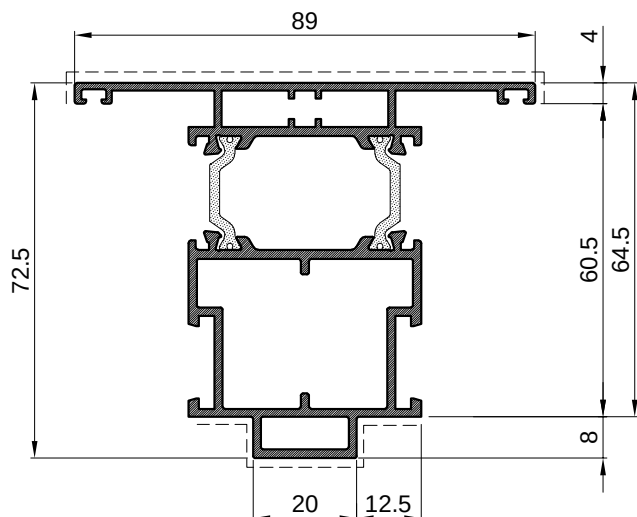
Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0243	
Težina Weight	kg/m	4.239
Opseg Perimeter	mm	677
Moment inerције Moment of inertia	I _x (cm ⁴)	62.88
	I _y (cm ⁴)	450.12
	W _x (cm ³)	21.93
	W _y (cm ³)	45.01
L	mm	6500



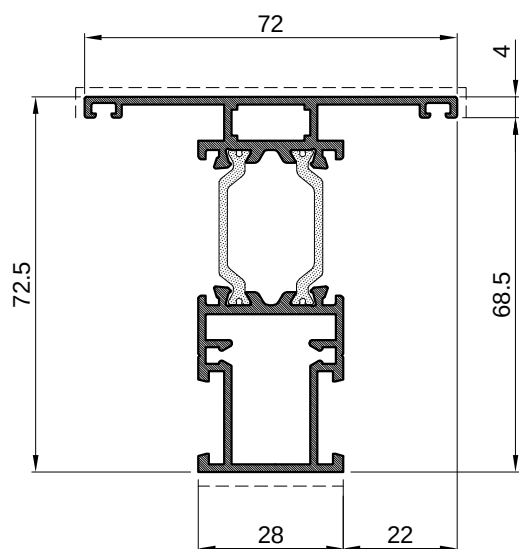
Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-1618	
Težina Weight	kg/m	3.479
Opseg Perimeter	mm	581
Moment inerције Moment of inertia	I _x (cm ⁴)	63.36
	I _y (cm ⁴)	209.98
	W _x (cm ³)	20.53
	W _y (cm ³)	26.25
L	mm	6500



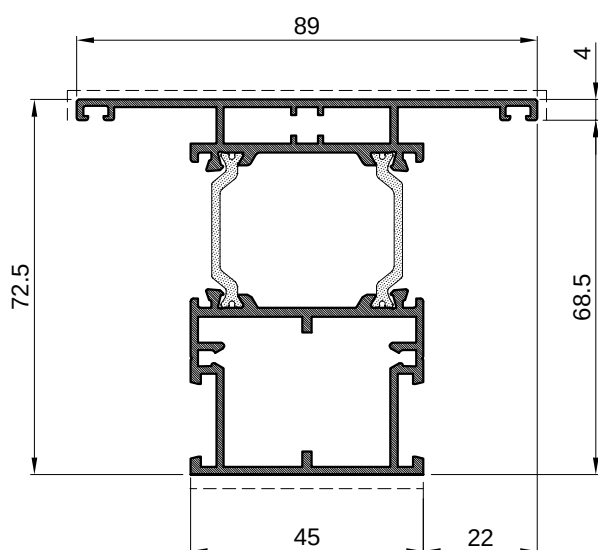
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0276	
Težina Weight	kg/m	1.876
Opseg Perimeter	mm	454
Moment inerције Moment of inertia	I _x (cm ⁴)	30.71
	I _y (cm ⁴)	21.67
	W _x (cm ³)	9.5
	W _y (cm ³)	4.83
L	mm	6500

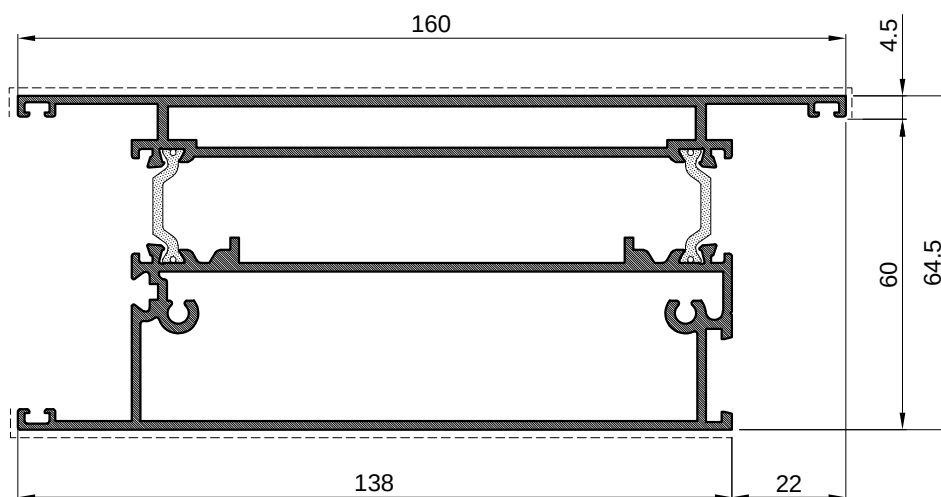


Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-0284	
Težina Weight	kg/m	1.450
Opseg Perimeter	mm	392
Moment inercije Moment of inertia	I _x (cm ⁴)	23.66
	I _y (cm ⁴)	8.91
	W _x (cm ³)	7.59
	W _y (cm ³)	2.48
L	mm	6500

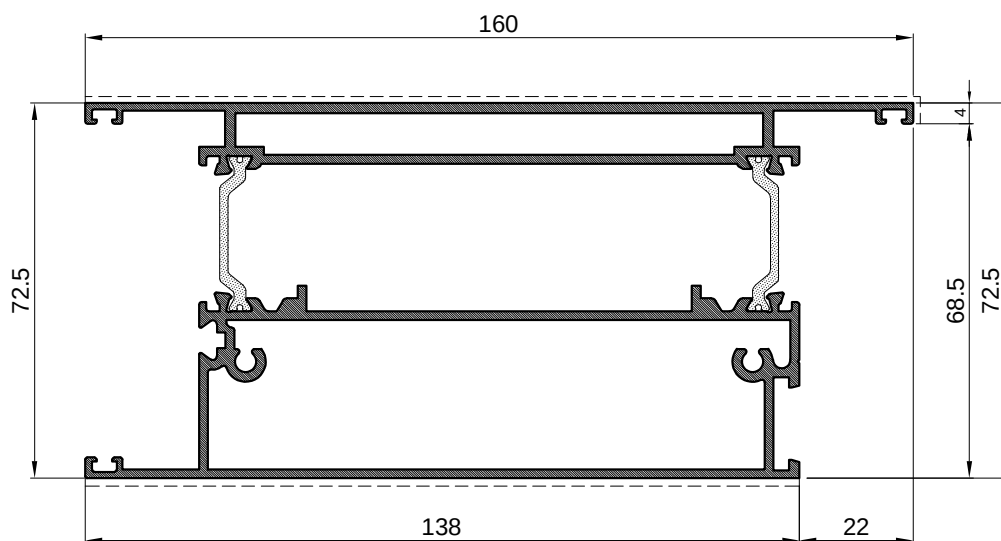


Profil prečke Window mullion profile		
Art.Br. Art.Nr.	FT-1621	
Težina Weight	kg/m	1.740
Opseg Perimeter	mm	480
Moment inercije Moment of inertia	I _x (cm ⁴)	30.64
	I _y (cm ⁴)	21.51
	W _x (cm ³)	9.88
	W _y (cm ³)	4.83
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

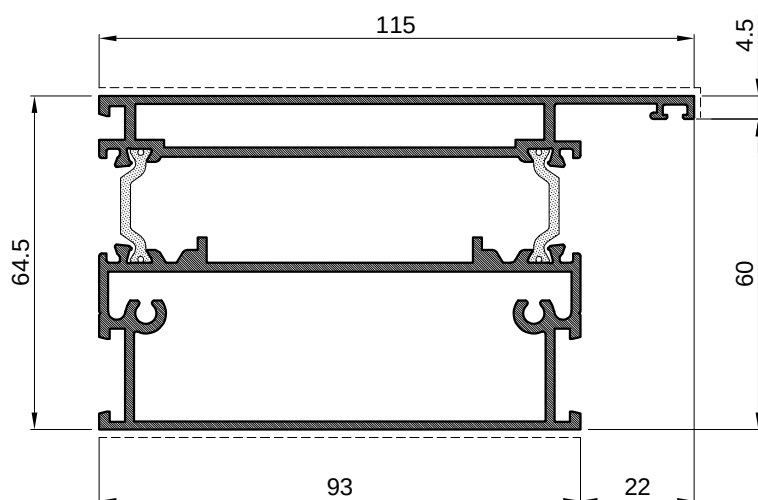
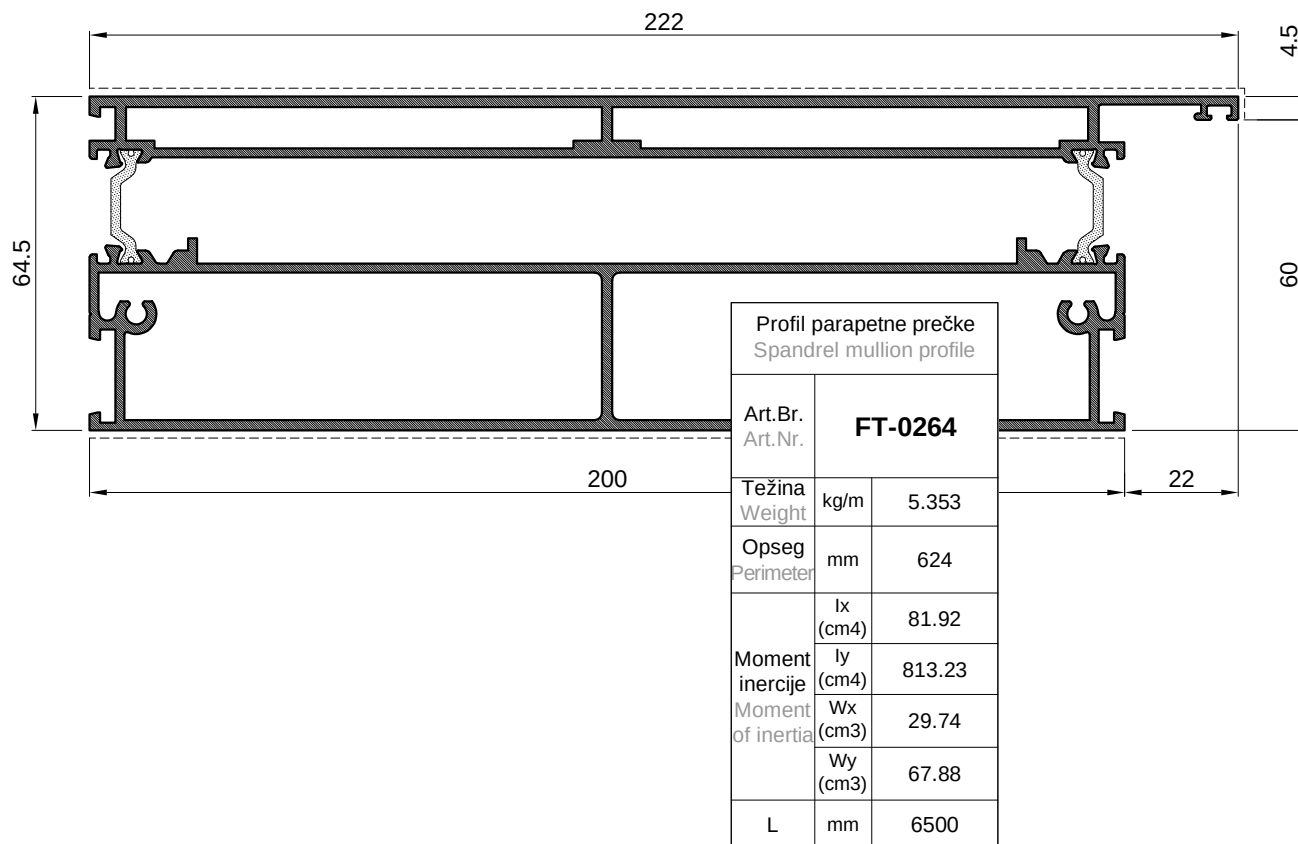


Profil parapetne prečke Spandrel mullion profile		
Art.Br. Art.Nr.	FT-0208	
Težina Weight	kg/m	3.508
Opseg Perimeter	mm	626
Moment inercije Moment of inertia	Ix (cm ⁴)	52.07
	Iy (cm ⁴)	230.02
	Wx (cm ³)	18.7
	Wy (cm ³)	27.94
L	mm	6500



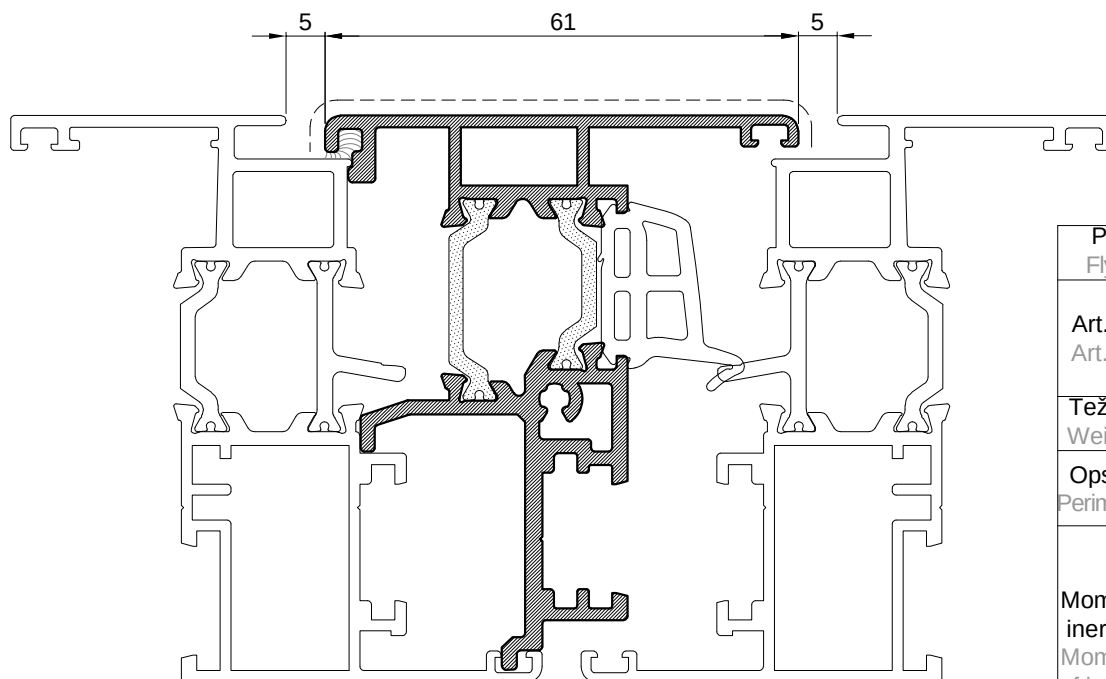
Profil parapetne prečke Spandrel mullion profile		
Art.Br. Art.Nr.	FT-0282	
Težina Weight	kg/m	3.53
Opseg Perimeter	mm	642
Moment inercije Moment of inertia	Ix (cm ⁴)	67.89
	Iy (cm ⁴)	230
	Wx (cm ³)	22.64
	Wy (cm ³)	27.94
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

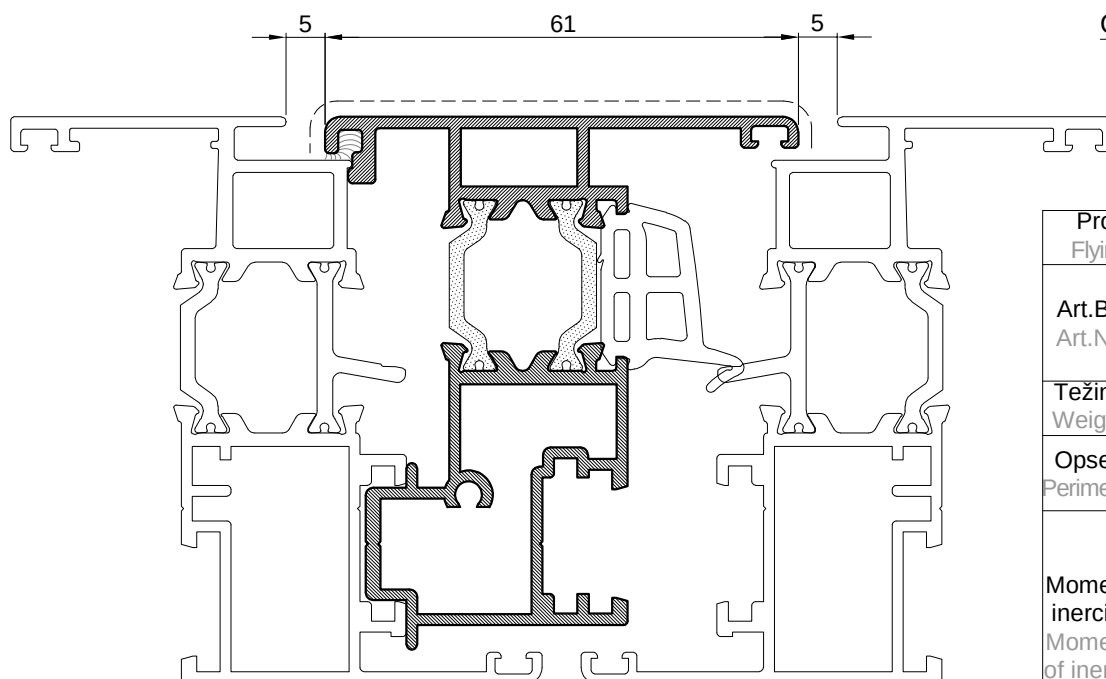


Profil parapetne prečke Spandrel mullion profile		
Art.Br. Art.Nr.	FT-0265	
Težina Weight	kg/m	2.769
Opseg Perimeter	mm	410
Moment inercije Moment of inertia	Ix (cm4)	37.23
	Iy (cm4)	109.23
	Wx (cm3)	13.45
	Wy (cm3)	16.51
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

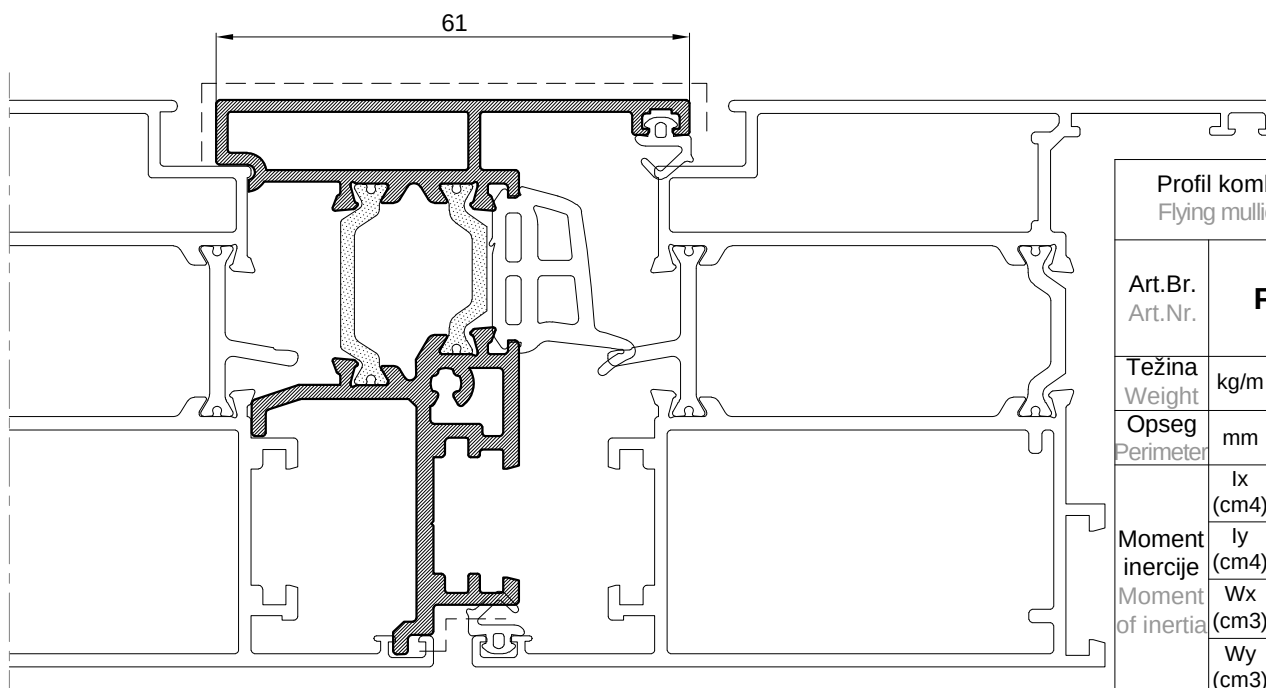


Profil komb.-za prozor Flying mullion-for window		
Art.Br. Art.Nr.	FT-0286	
Težina Weight	kg/m	1.503
Opseg Perimeter	mm	384
Moment inercije Moment of inertia	Ix (cm4)	17.13
	Iy (cm4)	6.51
	Wx (cm3)	5.22
	Wy (cm3)	1.94
L	mm	6500

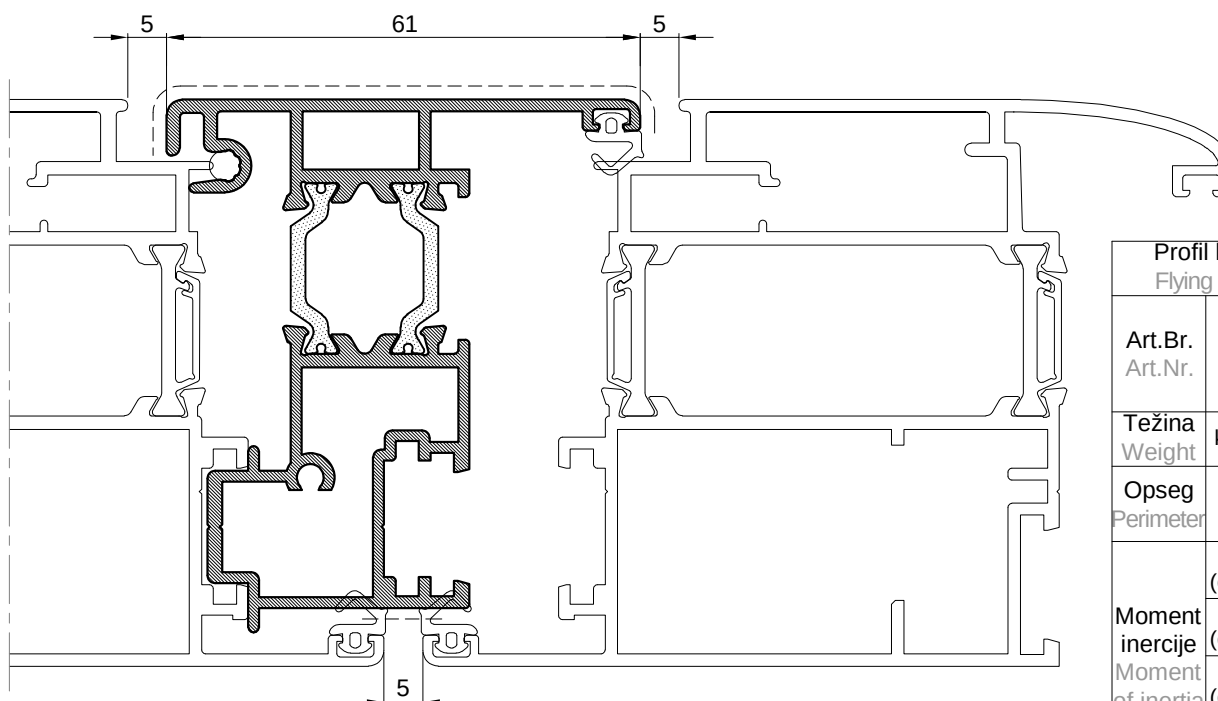
OPCIJA

Profil komb.-za prozor Flying mullion-for window		
Art.Br. Art.Nr.	FT-0211	
Težina Weight	kg/m	1.453
Opseg Perimeter	mm	375
Moment inercije Moment of inertia	Ix (cm4)	20.07
	Iy (cm4)	7.81
	Wx (cm3)	6.83
	Wy (cm3)	2.17
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

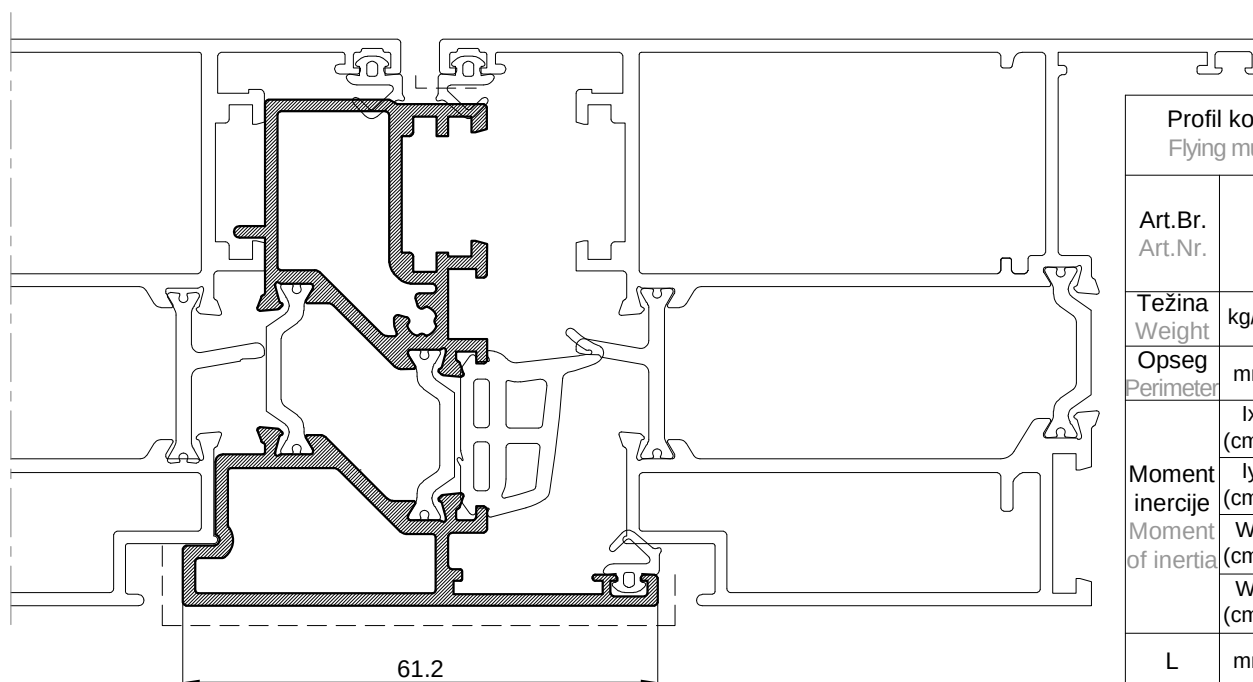


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	FT-0277	
Težina Weight	kg/m	1.451
Opseg Perimeter	mm	423
Moment inercije Moment of inertia	Ix (cm4)	17.43
	Iy (cm4)	4.58
	Wx (cm3)	5.28
	Wy (cm3)	2.23
L	mm	6500

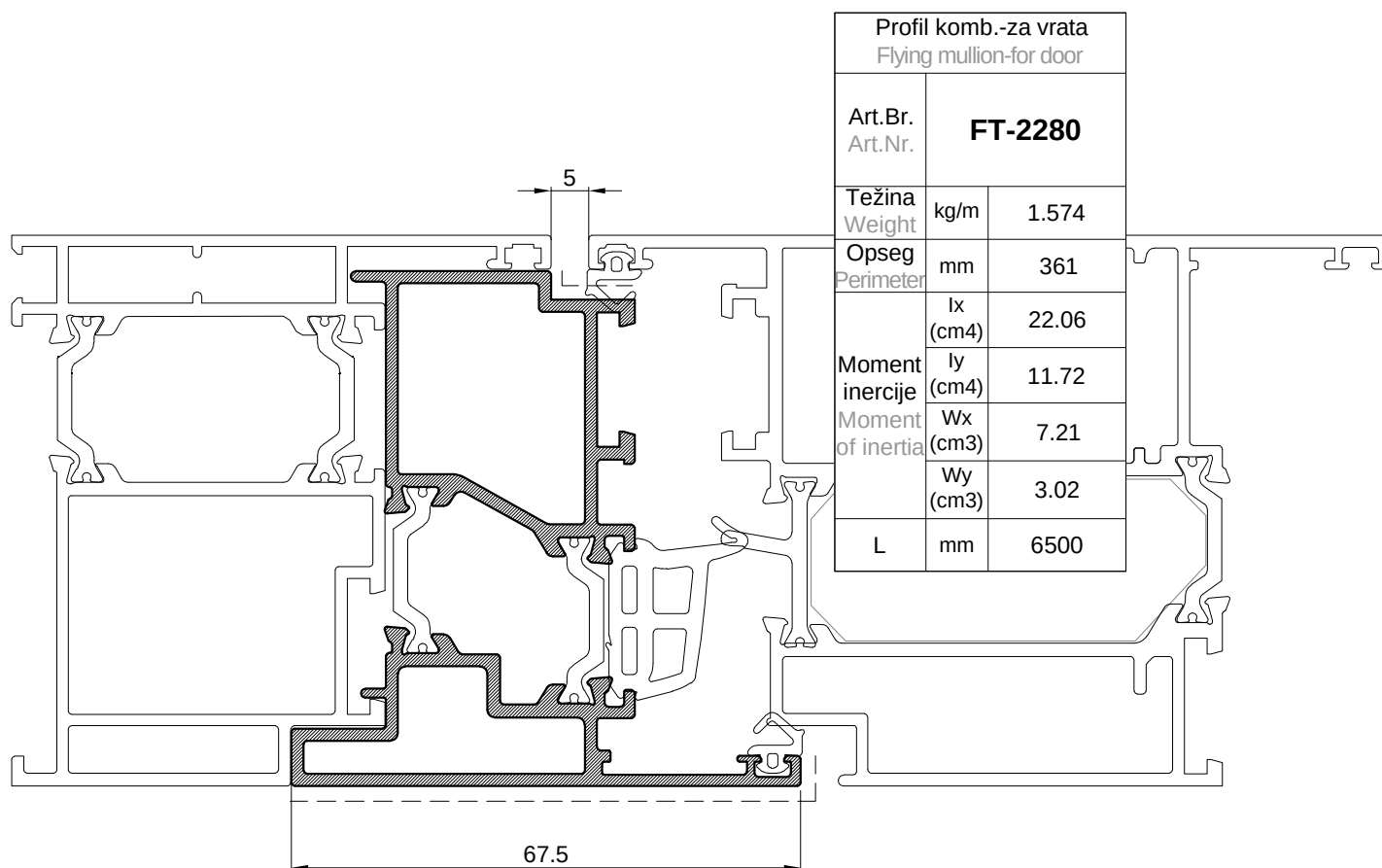


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	FT-0211-A	
Težina Weight	kg/m	1.492
Opseg Perimeter	mm	410
Moment inercije Moment of inertia	Ix (cm4)	20.4
	Iy (cm4)	8.59
	Wx (cm3)	6.62
	Wy (cm3)	2.34
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

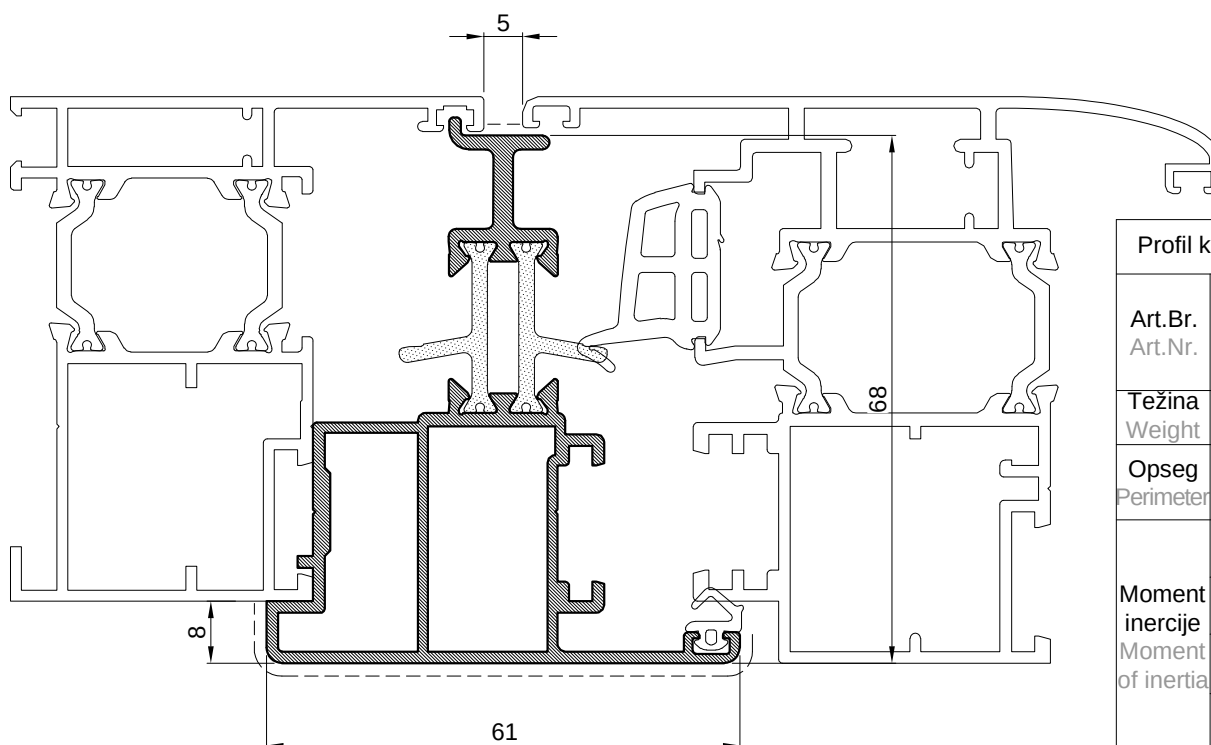


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	FT-2281	
Težina Weight	kg/m	1.522
Opseg Perimeter	mm	356
Moment inercije Moment of inertia	I _x (cm ⁴)	18.57
	I _y (cm ⁴)	8.73
	W _x (cm ³)	6.66
	W _y (cm ³)	2.4
L	mm	6500



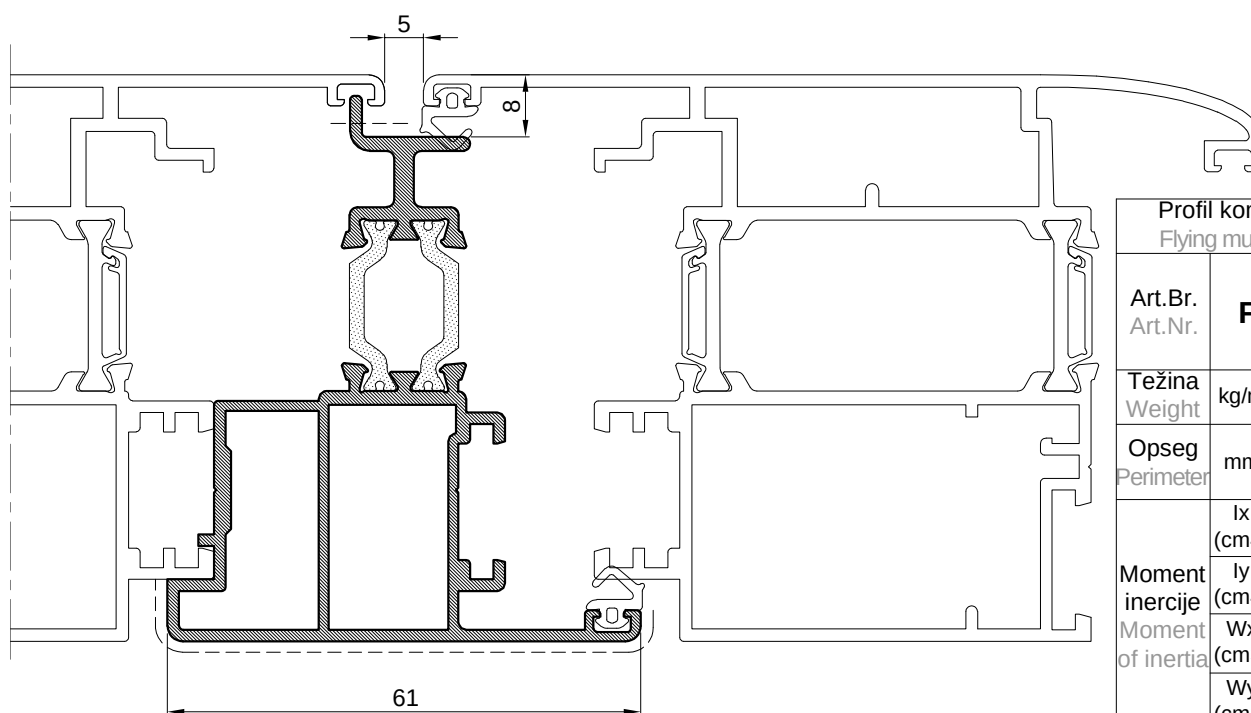
Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	FT-2280	
Težina Weight	kg/m	1.574
Opseg Perimeter	mm	361
Moment inercije Moment of inertia	I _x (cm ⁴)	22.06
	I _y (cm ⁴)	11.72
	W _x (cm ³)	7.21
	W _y (cm ³)	3.02
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



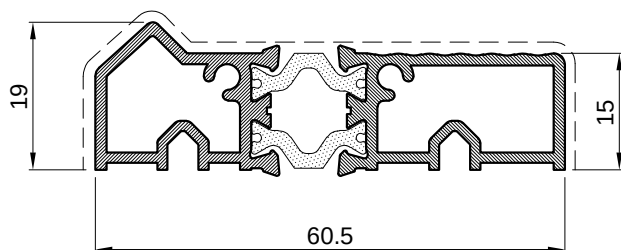
Profil komb. Flying mullion

Art.Br. Art.Nr.	FT-0213	
Težina Weight	kg/m	1.342
Opseg Perimeter	mm	376
Moment inercije Moment of inertia	Ix (cm ⁴)	15.81
	Iy (cm ⁴)	18.16
	Wx (cm ³)	4.45
	Wy (cm ³)	2.38
L	mm	6500

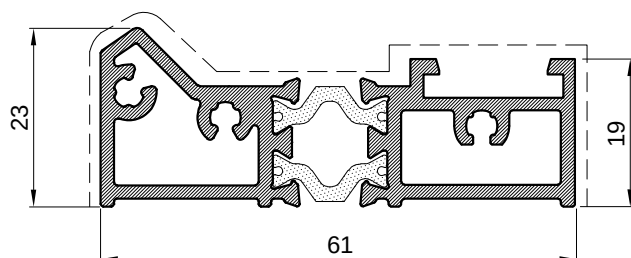
Profil komb.-za vrata
Flying mullion-for door

Art.Br. Art.Nr.	FT-0213-A	
Težina Weight	kg/m	1.326
Opseg Perimeter	mm	333
Moment inercije Moment of inertia	Ix (cm ⁴)	15.6
	Iy (cm ⁴)	8.21
	Wx (cm ³)	4.39
	Wy (cm ³)	2.4
L	mm	6500

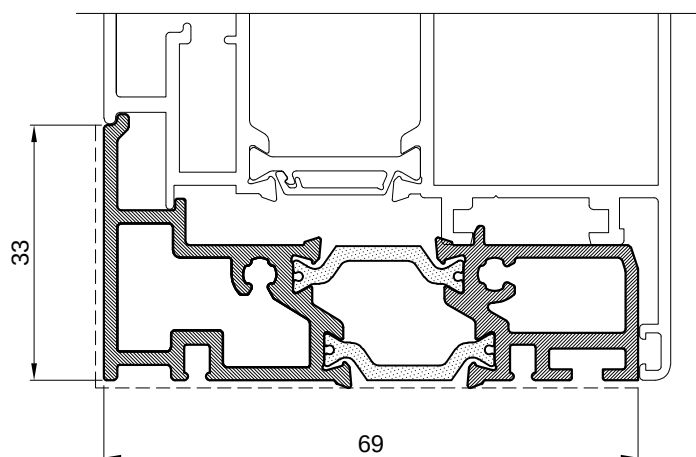
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



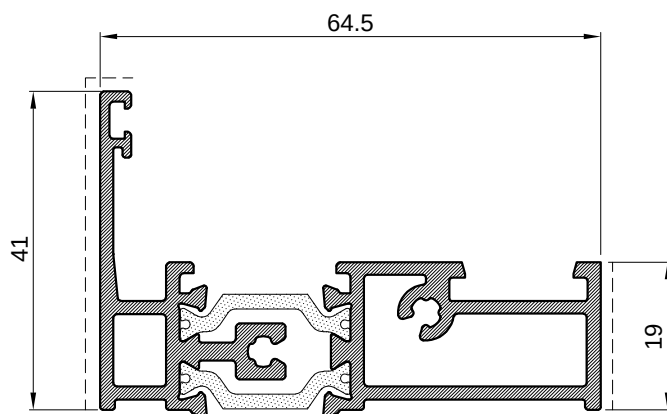
Profil praga Threshold profile		
Art.Br. Art.Nr.	FT-0223	
Težina Weight	kg/m	0.847
Opseg Perimeter	mm	175
L	mm	6500



Profil praga Threshold profile		
Art.Br. Art.Nr.	FT-0294	
Težina Weight	kg/m	1.136
Opseg Perimeter	mm	206
L	mm	6500

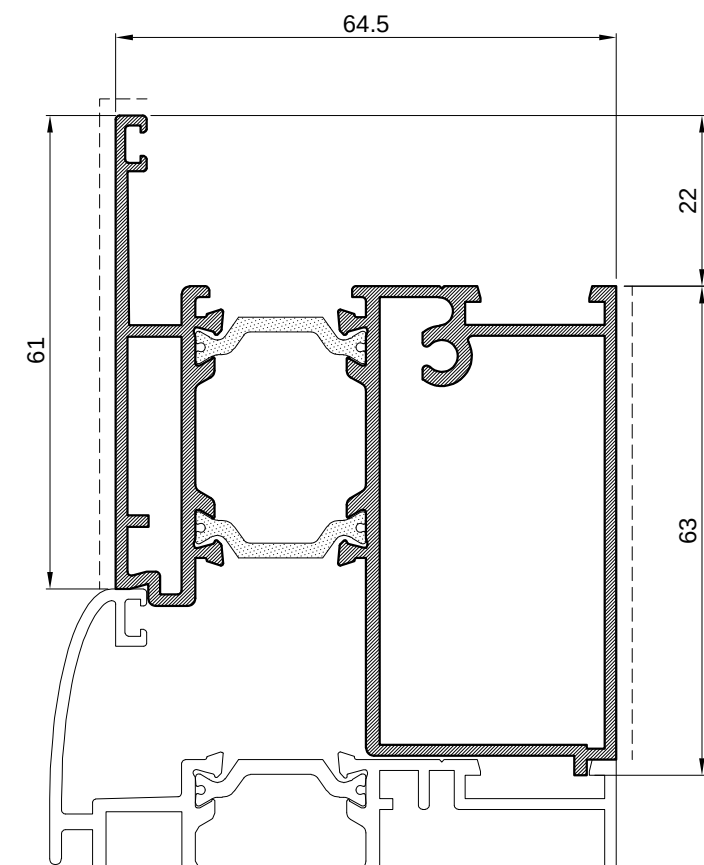


Profil parapeta Spandrel profile		
Art.Br. Art.Nr.	FT-0288	
Težina Weight	kg/m	1.251
Opseg Perimeter	mm	260
L	mm	6500

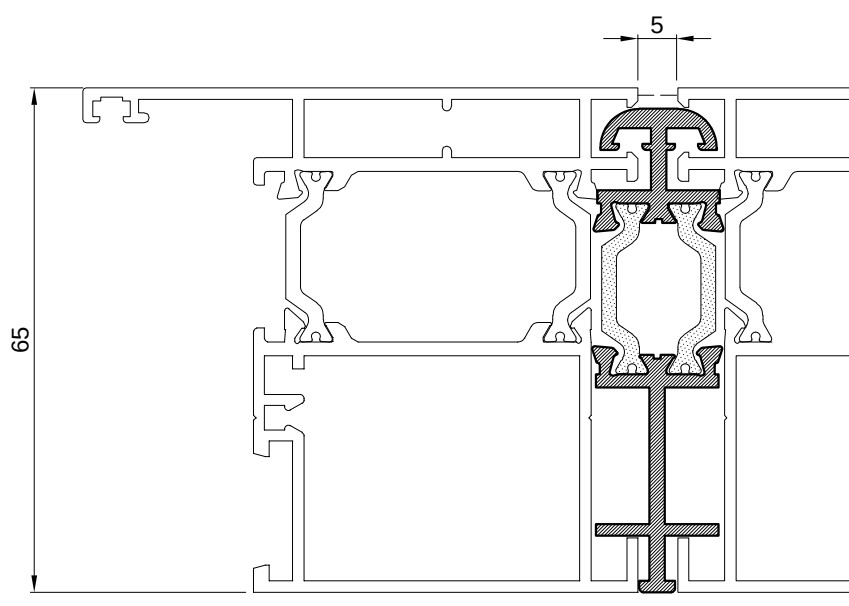


Profil praga Threshold profile		
Art.Br. Art.Nr.	FT-1614	
Težina Weight	kg/m	1.294
Opseg Perimeter	mm	256
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

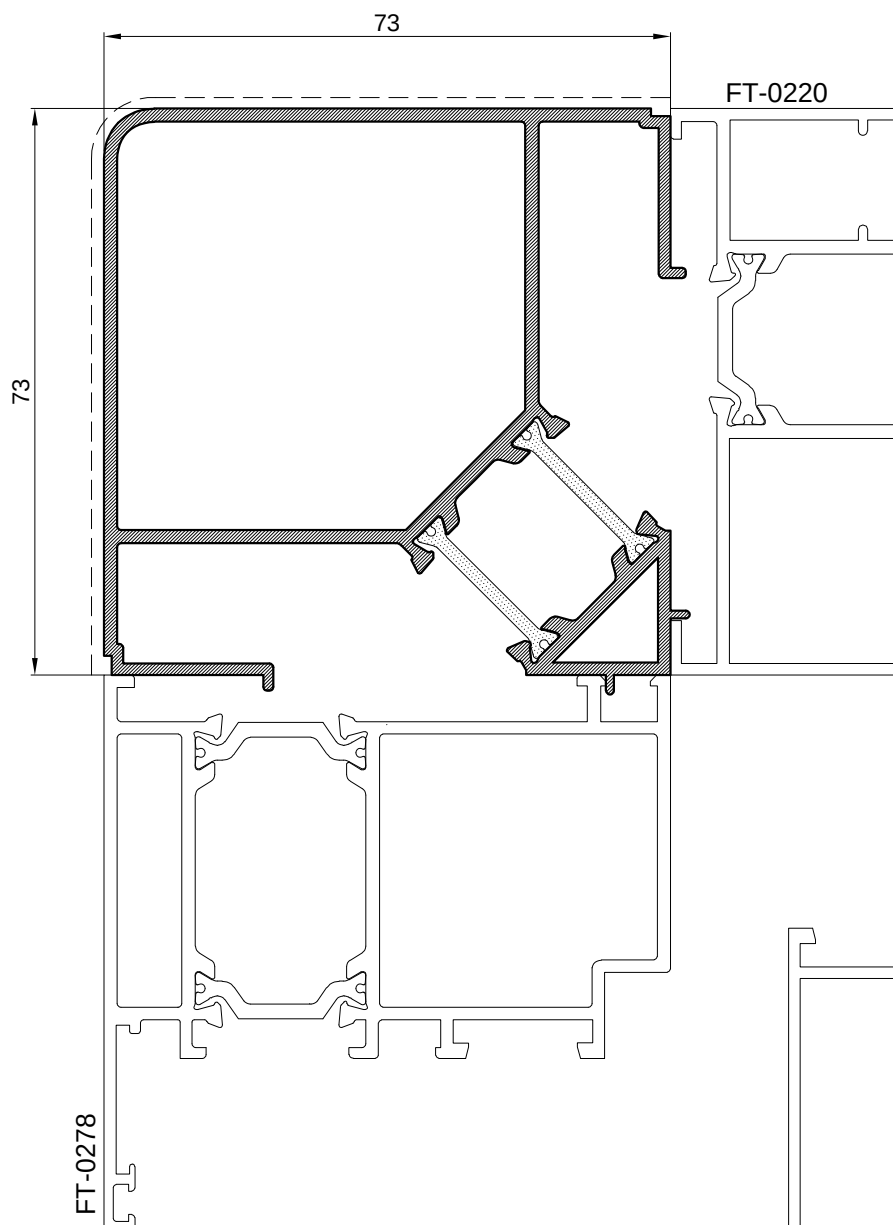


Parapetni profil Spandrel profile		
Art.Br. Art.Nr.	FT-0228	
Težina Weight	kg/m	1.775
Opseg Perimeter	mm	371
Moment inercije Moment of inertia	I _x (cm ⁴)	24.74
	I _y (cm ⁴)	22.75
	W _x (cm ³)	5.58
	W _y (cm ³)	8.62
L	mm	6500



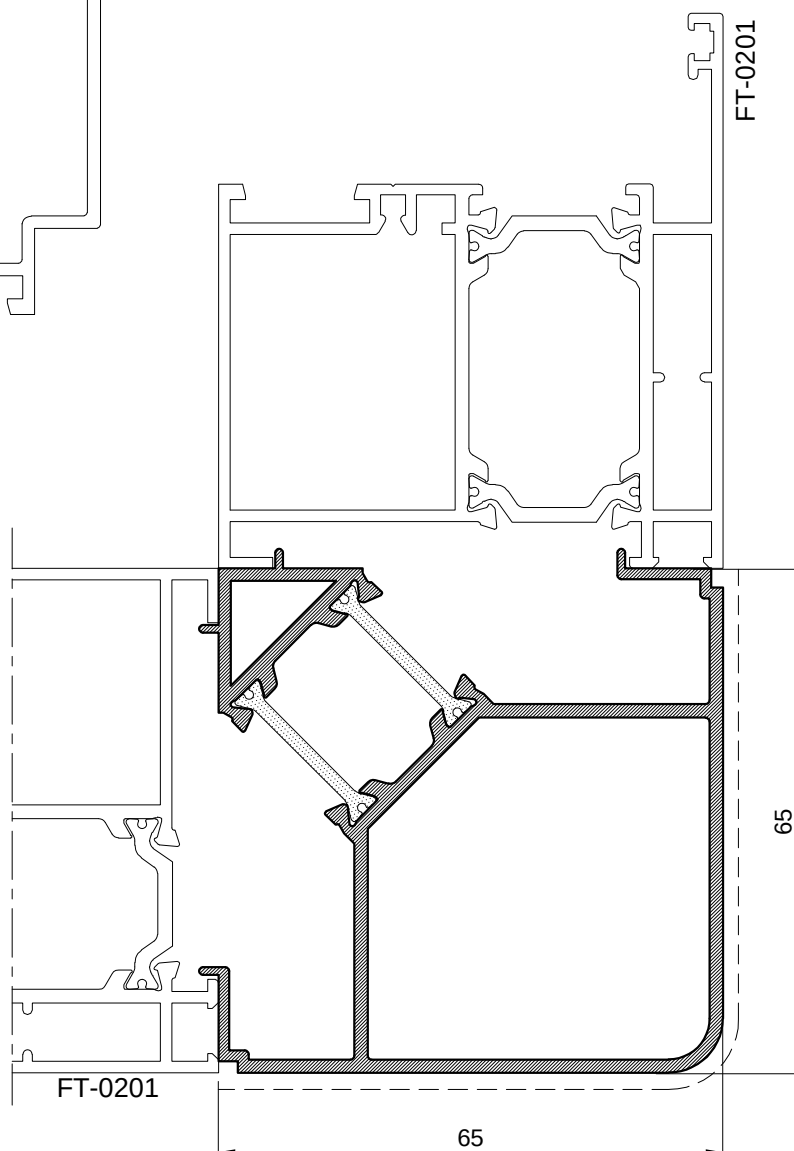
Vezni profil Connection profile		
Art.Br. Art.Nr.	FT-0216	
Težina Weight	kg/m	0.78
Opseg Perimeter	mm	248
Moment inercije Moment of inertia	I _x (cm ⁴)	6.96
	I _y (cm ⁴)	0.39
	W _x (cm ³)	2.69
	W _y (cm ³)	0.45
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

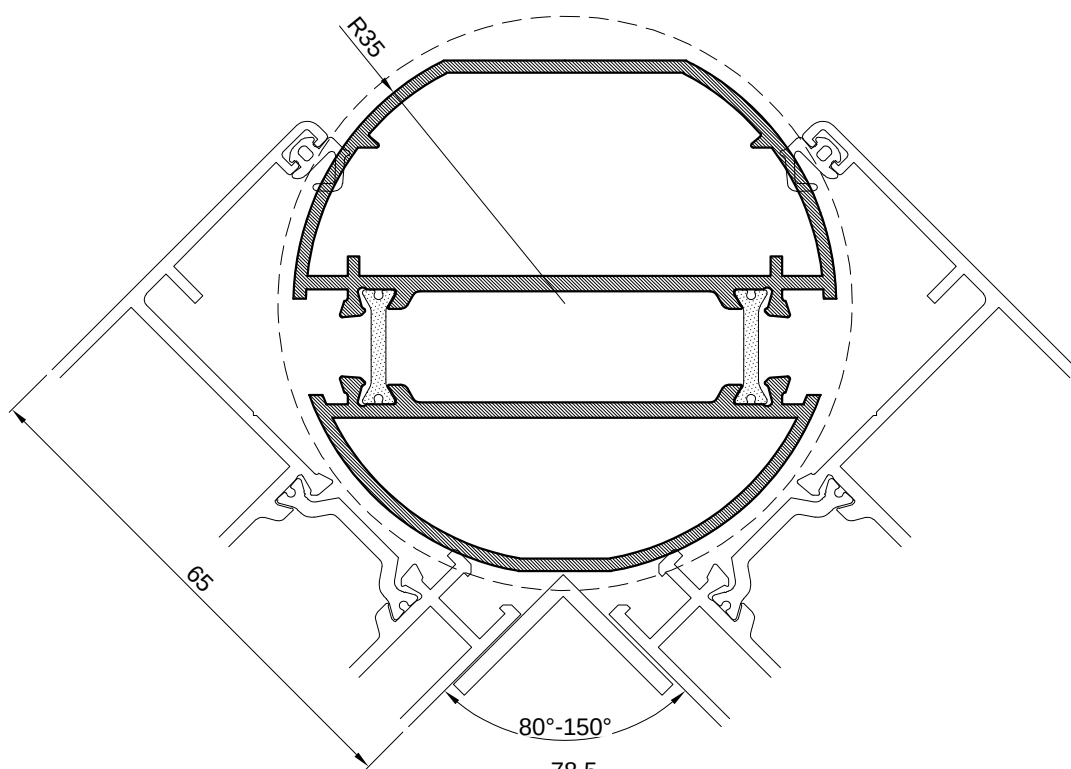


Profil za kut 90° Profile for corner 90°		
Art.Br. Art.Nr.	FT-0235	
Težina Weight	kg/m	1.81
Opseg Perimeter	mm	448
Moment inerције Moment of inertia	Ix (cm4)	39.33
	Iy (cm4)	42.91
	Wx (cm3)	11.34
	Wy (cm3)	11.34
L	mm	6500

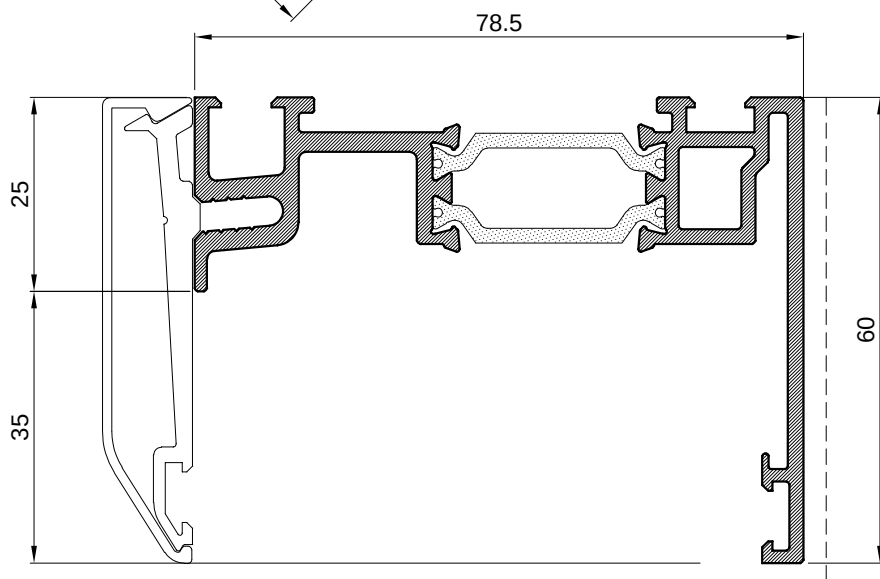
Profil za kut 90° Profile for corner 90°		
Art.Br. Art.Nr.	FT-0222	
Težina Weight	kg/m	1.604
Opseg Perimeter	mm	390
Moment inerције Moment of inertia	Ix (cm4)	25.78
	Iy (cm4)	28.54
	Wx (cm3)	8.31
	Wy (cm3)	8.31
L	mm	6500



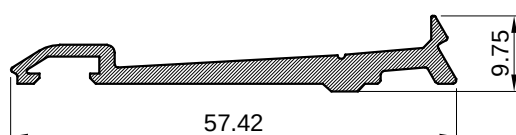
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



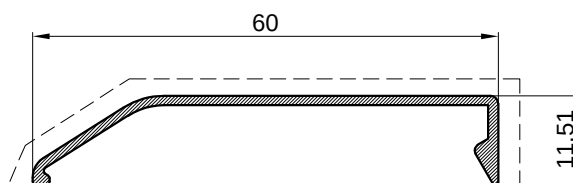
Profil za promjenjivi kut Profile for changeable corner		
Art.Br. Art.Nr.	FT-0217	
Težina Weight	kg/m	1.780
Opseg Perimeter	mm	269
Moment inercije Moment of inertia	Ix (cm ⁴)	16.92
	Iy (cm ⁴)	27.48
	Wx (cm ³)	6.4
	Wy (cm ³)	7.85
L	mm	6500



Profil za ugradnju Installation profile		
Art.Br. Art.Nr.	FT-0242	
Težina Weight	kg/m	1.498
Opseg Perimeter	mm	444
L	mm	6500

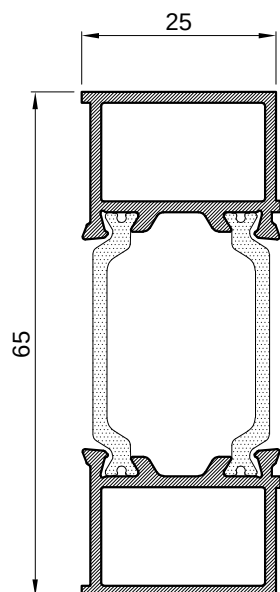


Profil za ugradnju Installation profile		
Art.Br. Art.Nr.	F-1190	
Težina Weight	kg/m	0.461
Opseg Perimeter	mm	145
L	mm	6500

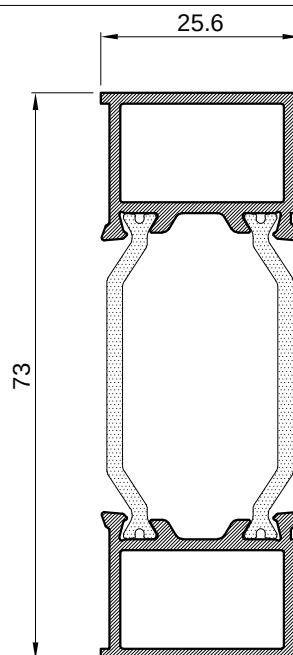


Profil za ugradnju Installation profile		
Art.Br. Art.Nr.	FM-072	
Težina Weight	kg/m	0.258
Opseg Perimeter	mm	152
L	mm	6500

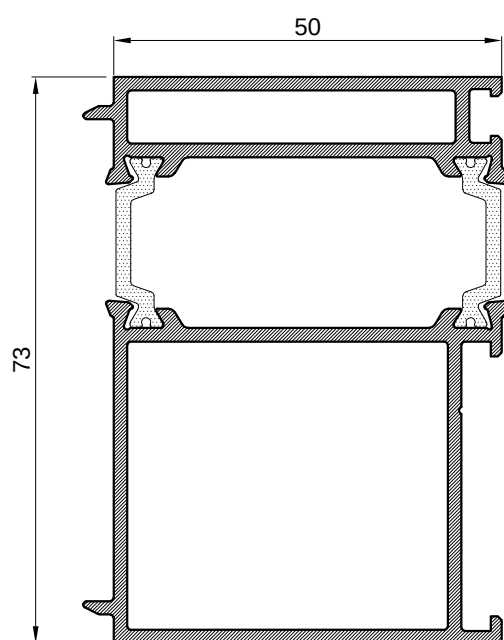
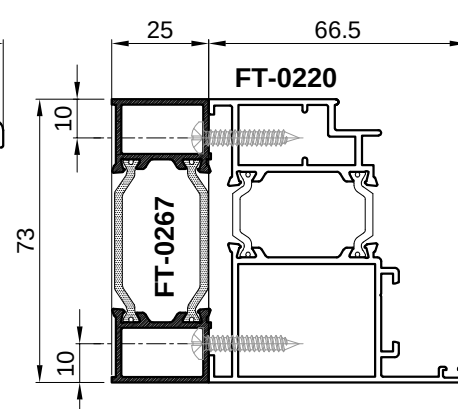
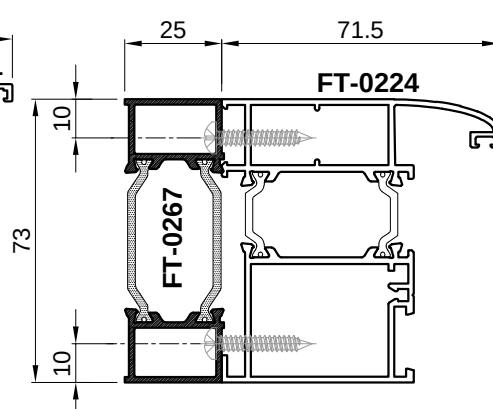
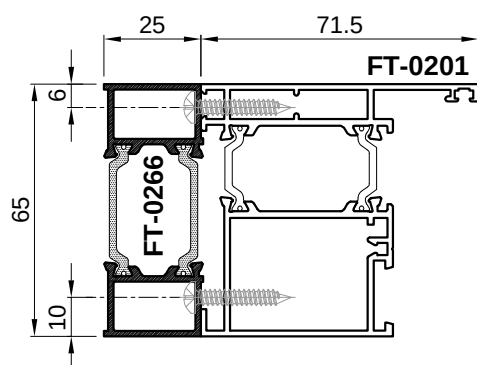
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



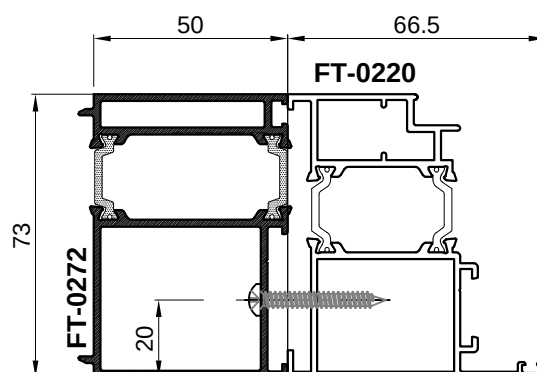
Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	FT-0266	
Težina Weight	kg/m	0.907
Opseg Opseg	mm	196
Moment inercije Moment of inertia	Ix (cm ⁴)	10.08
	Iy (cm ⁴)	2.02
	Wx (cm ³)	4.59
	Wy (cm ³)	1.56
L	mm	6500



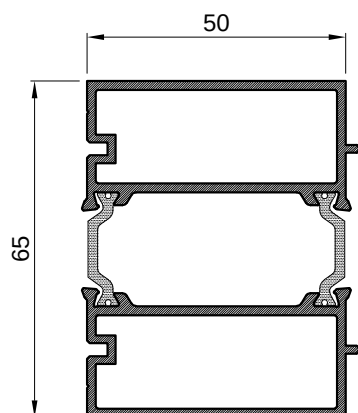
Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	FT-0267	
Težina Weight	kg/m	0.946
Opseg Opseg	mm	212
Moment inercije Moment of inertia	Ix (cm ⁴)	14.46
	Iy (cm ⁴)	2.02
	Wx (cm ³)	5.52
	Wy (cm ³)	1.56
L	mm	6500



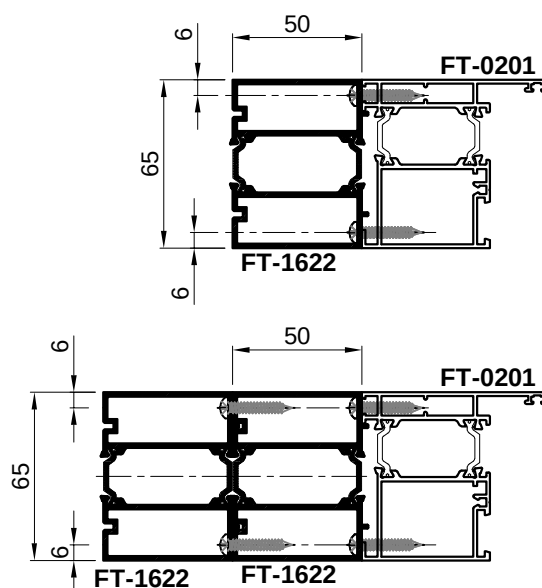
Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	FT-0272	
Težina Weight	kg/m	1.693
Opseg Opseg	mm	289
Moment inercije Moment of inertia	Ix (cm ⁴)	29.92
	Iy (cm ⁴)	18.21
	Wx (cm ³)	9.51
	Wy (cm ³)	6.5
L	mm	6500



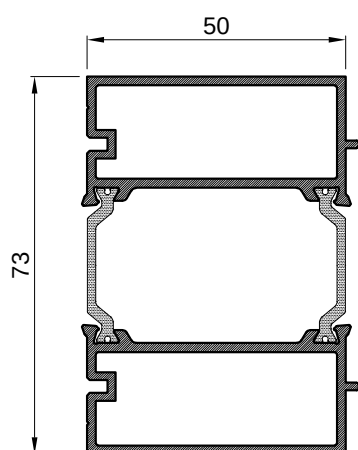
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



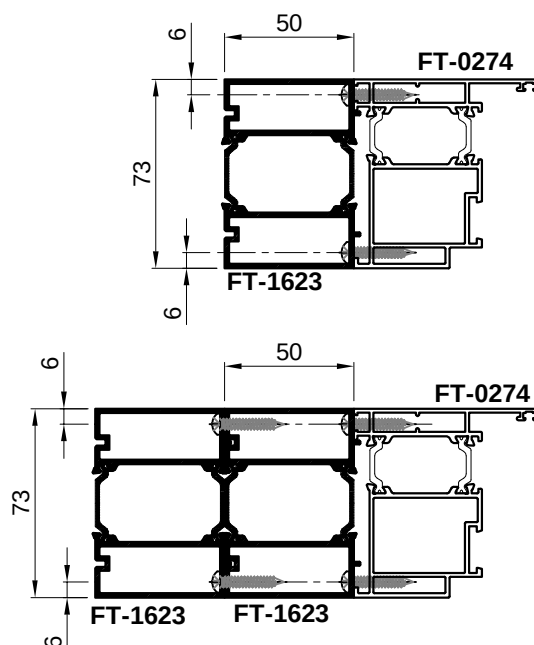
Profil za proširenje rama Frame extension profile		
Art.br Art.nr.	FT-1622	
Težina Weight	kg/m	1.616
Opseg Perimeter	mm	260
Moment inercije Moment of inertia	I _x (cm ⁴)	20.38
	I _y (cm ⁴)	18.15
	W _x (cm ³)	8.37
	W _y (cm ³)	6.5
L	mm	6500



Primjenjivo i za profile:
FT-0287
FT-0233
FT-0297

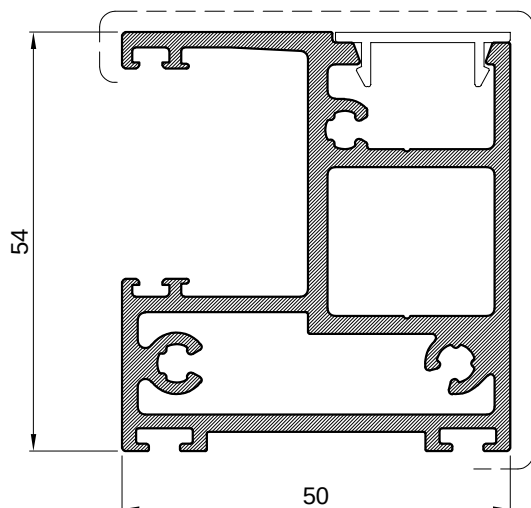


Profil za proširenje rama Frame extension profile		
Art.br Art.nr.	FT-1623	
Težina Weight	kg/m	1.612
Opseg Perimeter	mm	291
Moment inercije Moment of inertia	I _x (cm ⁴)	27.26
	I _y (cm ⁴)	18.15
	W _x (cm ³)	10.15
	W _y (cm ³)	6.5
L	mm	6500

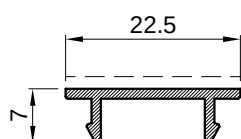


Primjenjivo i za profile:
FT-0224
FT-0234
FT-0278
FT-0220

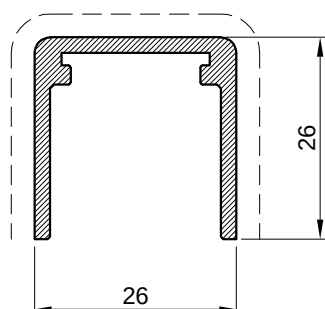
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK „F”
PROFILE WITHOUT XPS DO NOT HAVE ENDING „F”



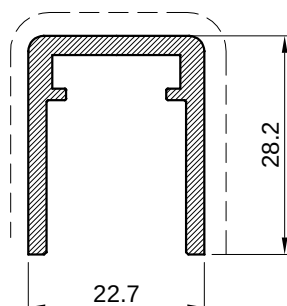
Profil francuskog balkona French balcony profile		
Art.Br. Art.Nr.	F-1569	
Težina Weight	kg/m	1.78
Opseg Perimeter	mm	357
L	mm	6500



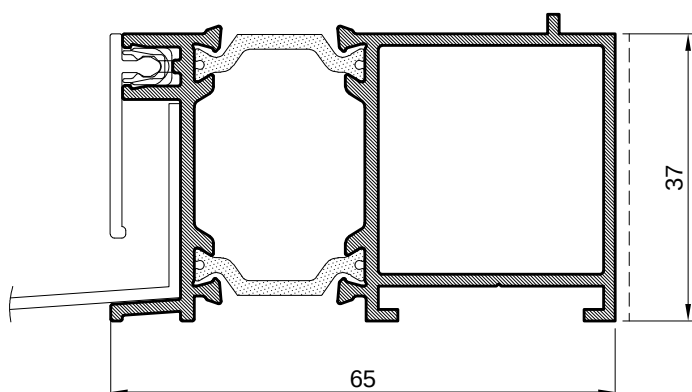
Pokrivni profil Cover profile		
Art.Br. Art.Nr.	F-0826	
Težina Weight	kg/m	0.117
Opseg Perimeter	mm	70
L	mm	6500



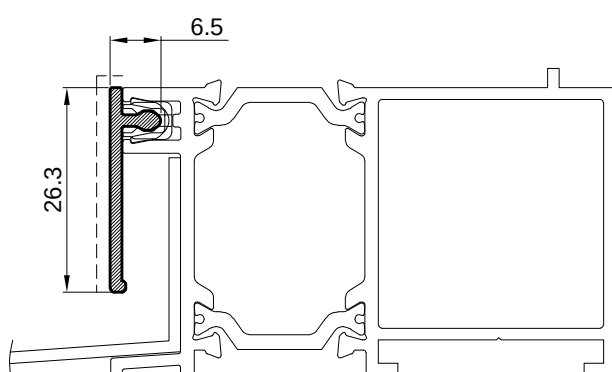
Profil rukovata za 1010.4 Handrail profile for 1010.4		
Art.Br. Art.Nr.	F-1437	
Težina Weight	kg/m	0.444
Opseg Perimeter	mm	154
L	mm	6500



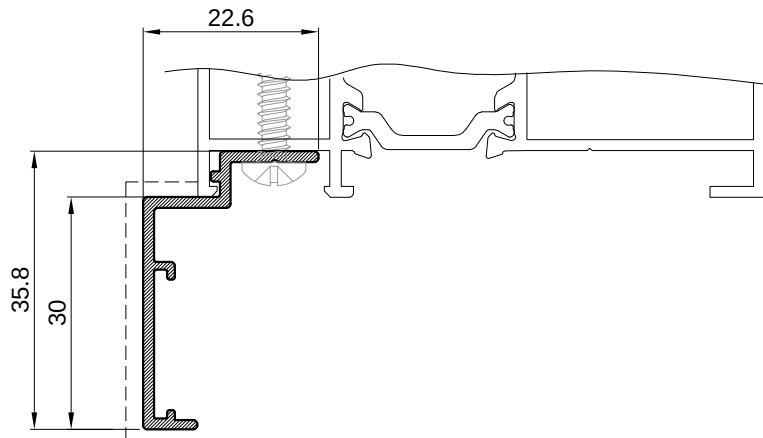
Profil rukovata za 88.4 Handrail profile for 88.4		
Art.Br. Art.Nr.	F-1490	
Težina Weight	kg/m	0.512
Opseg Perimeter	mm	158
L	mm	6500



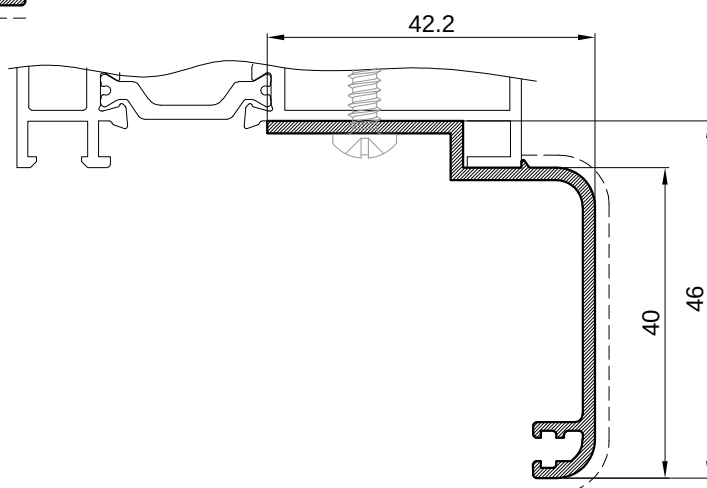
Profil za ugradnju Installation profile		
Art.Br. Art.Nr.	FT-0289	
Težina Weight	kg/m	1.149
Opseg Perimeter	mm	271
Moment inerције Moment of inertia	Ix (cm4)	6.57
	Iy (cm4)	16.6
	Wx (cm3)	3.28
	Wy (cm3)	4.97
L	mm	6500



Profil Profile		
Art.Br. Art.Nr.	F-1552	
Težina Weight	kg/m	0.133
Opseg Perimeter	mm	66
L	mm	6500



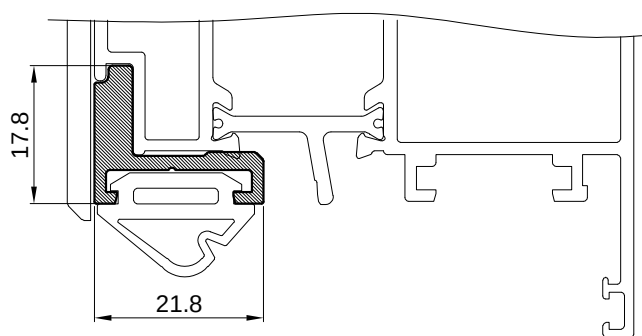
Profil Profile		
Art.Br. Art.Nr.	F-1482	
Težina Weight	kg/m	0.252
Opseg Perimeter	mm	137
L	mm	6500



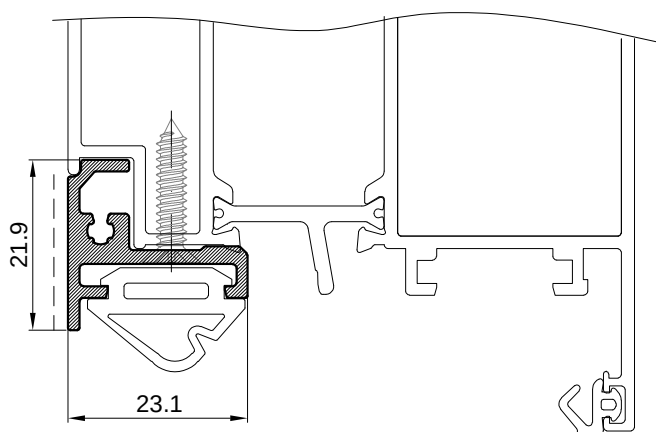
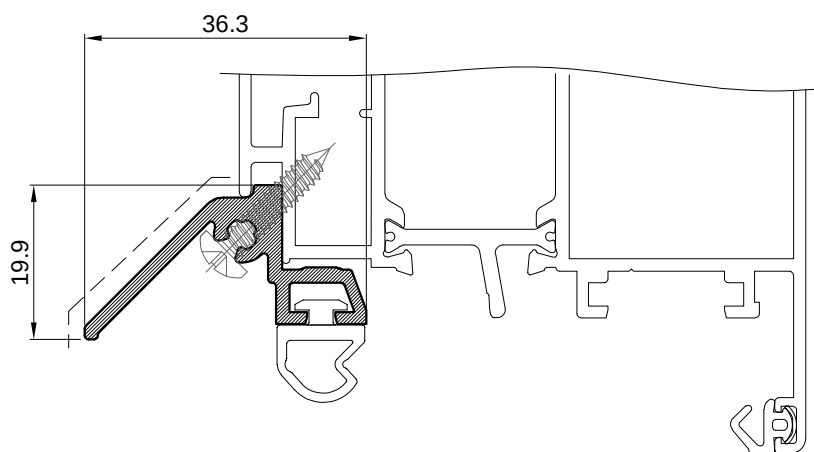
Profil Profile		
Art.Br. Art.Nr.	F-1309	
Težina Weight	kg/m	0.415
Opseg Perimeter	mm	200
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

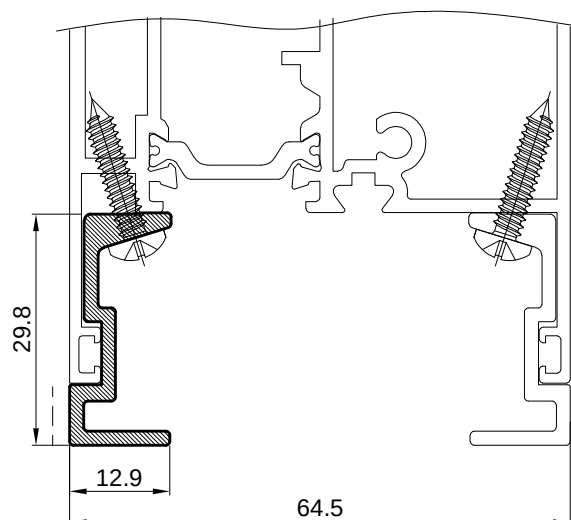
Profile Profile		
Art.Br. Art.Nr.	F-1661	
Težina Weight	kg/m	0.308
Opseg Perimeter	mm	94
L	mm	6500



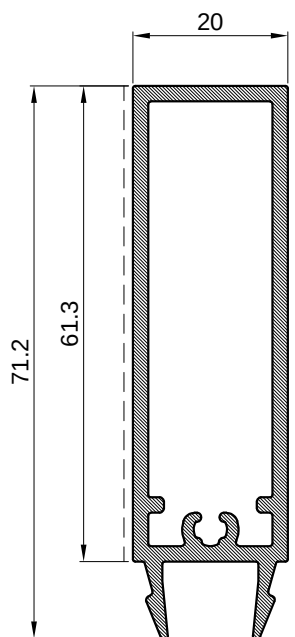
Profile Profile		
Art.Br. Art.Nr.	F-1567	
Težina Weight	kg/m	0.397
Opseg Perimeter	mm	146
L	mm	6500



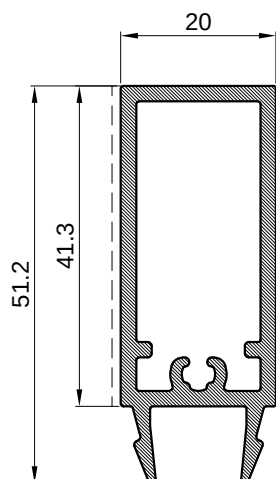
Profile Profile		
Art.Br. Art.Nr.	F-1483	
Težina Weight	kg/m	0.314
Opseg Perimeter	mm	127
L	mm	6500



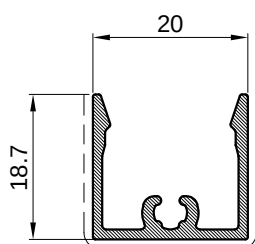
Profile Profile		
Art.Br. Art.Nr.	F-1408	
Težina Weight	kg/m	0.312
Opseg Perimeter	mm	112
L	mm	6500



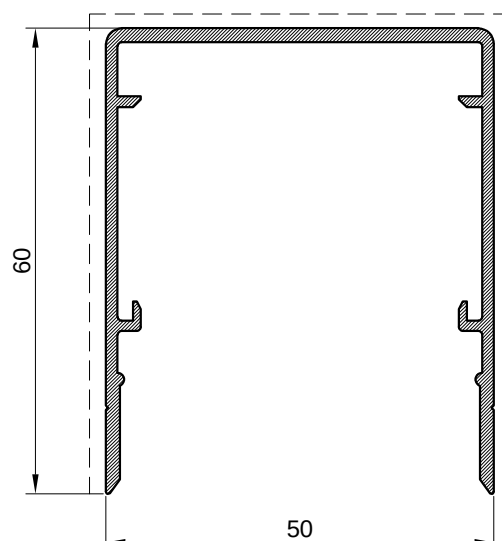
Profil ojačanja prečke Window crossbar reinforcement		
Art.Br. Art.Nr.	NP-4183	
Težina Weight	kg/m	0.990
Opseg Perimeter	mm	200
Moment inercije Moment of inertia	Ix (cm4)	18.21
	Iy (cm4)	2.34
	Wx (cm3)	5.11
	Wy (cm3)	2.34
L	mm	6500



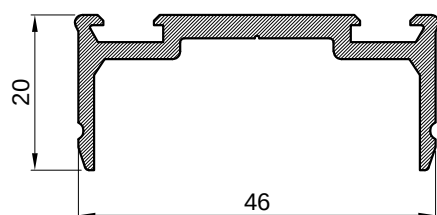
Profil ojačanja prečke Window crossbar reinforcement		
Art.Br. Art.Nr.	F-1634	
Težina Weight	kg/m	0.774
Opseg Perimeter	mm	160
Moment inercije Moment of inertia	Ix (cm4)	7.06
	Iy (cm4)	1.69
	Wx (cm3)	2.69
	Wy (cm3)	1.69
L	mm	6500



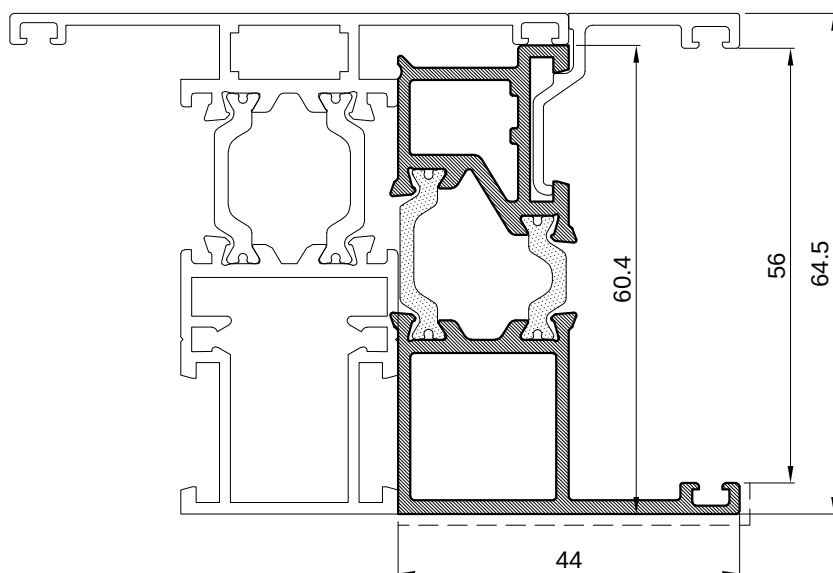
Maska profila ojačanja Reinforcement profile mask		
Art.Br. Art.Nr.	NP-4184	
Težina Weight	kg/m	0.243
Opseg Perimeter	mm	129
L	mm	6500



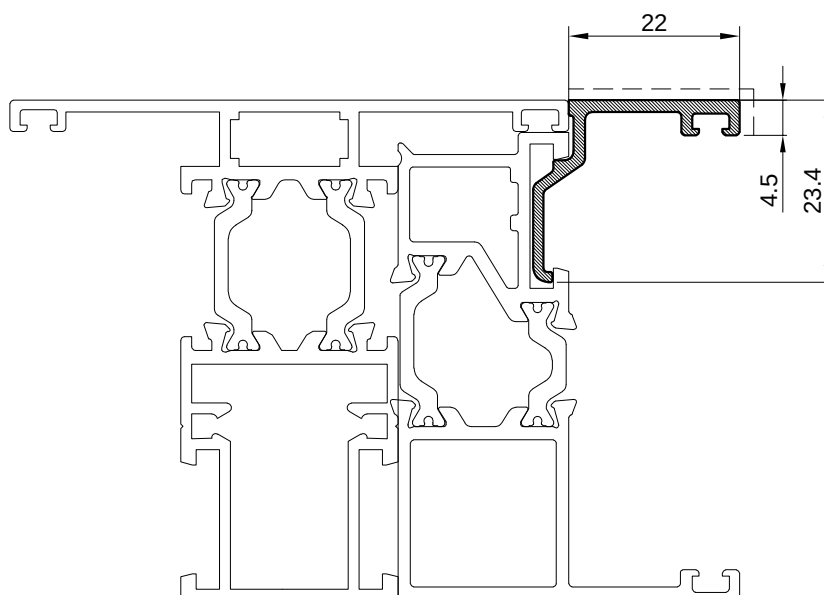
Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/20D	
Težina Weight	kg/m	0.558
Opseg Perimeter	mm	185
L	mm	6500



Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/61	
Težina Weight	kg/m	0.785
Opseg Perimeter	mm	365
L	mm	6500



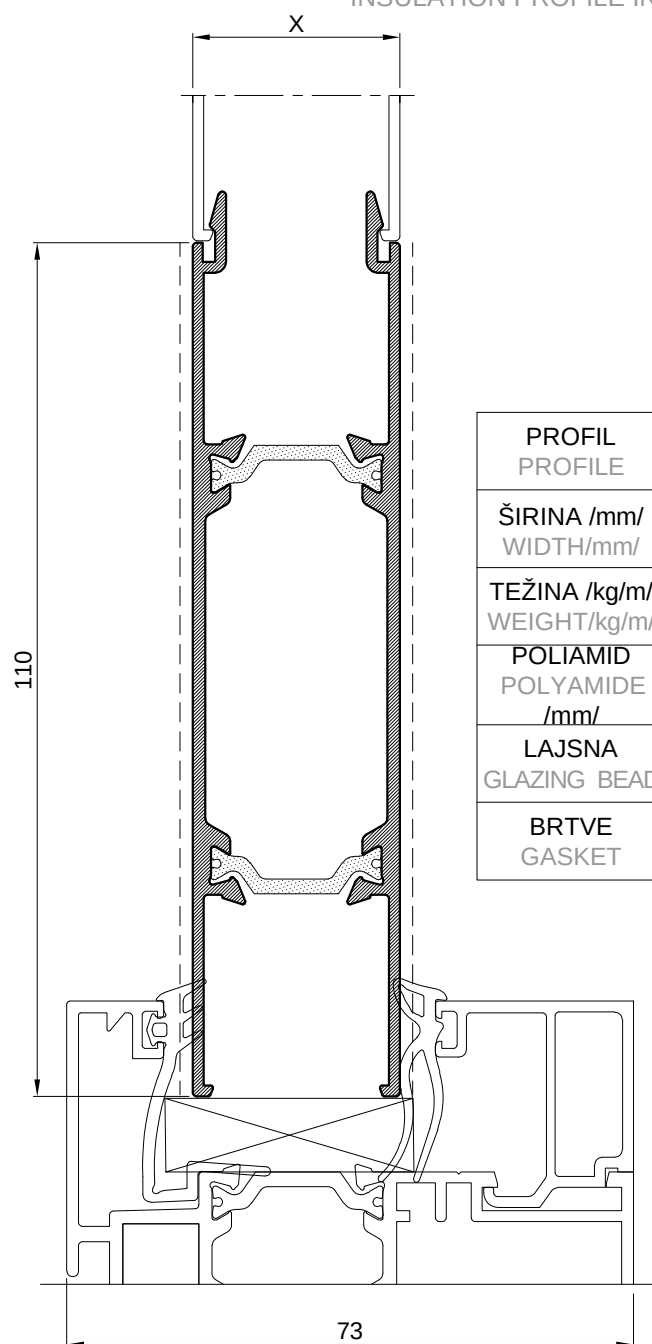
Profil rama Frame profile		
Art.Br. Art.Nr.	FT-0293	
Težina Weight	kg/m	1.118
Opseg Perimeter	mm	270
Moment inercije Moment of inertia	Ix (cm ⁴)	17.97
	Iy (cm ⁴)	4.04
	Wx (cm ³)	6.06
	Wy (cm ³)	1.34
L	mm	6500



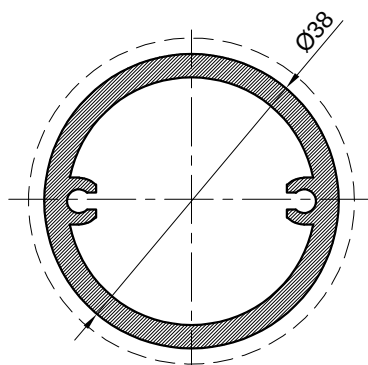
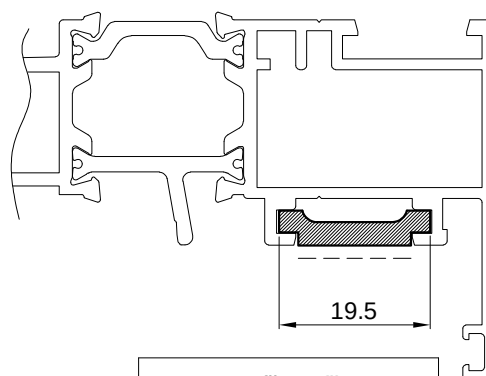
Profil Profile		
Art.Br. Art.Nr.	NP-4822	
Težina Weight	kg/m	0.218
Opseg Perimeter	mm	134
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

PROFIL ISPUNE U OVISNOSTI O ŠIRINI POLIAMIDA
INSULATION PROFILE IN DEPENDING ON THE POLYAMIDE WIDTH



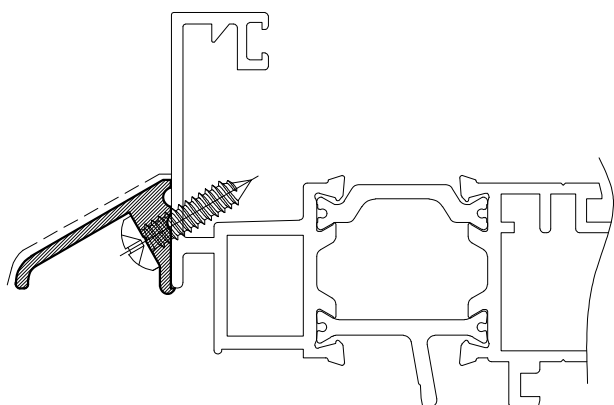
PROFIL PROFILE	FT-0142-39	FT-0142-35	FT-0142-33	FT-0142-27	FT-0142
ŠIRINA /mm/ WIDTH/mm/	38.7	34.7	32.7	26.7	19.5
TEŽINA /kg/m/ WEIGHT/kg/m/	1.437	1.423	1.413	1.372	1.28
POLIAMID POLYAMIDE /mm/	34	30	28	22	14.8
LAJSNA GLAZING BEAD	Z40-664 (10.5 mm)	Z40-665 (15.5 mm)	Z40-666 (20.5 mm)	Z40-667 (25.5 mm)	Z40-668 (30.5 mm)
BRTVE GASKET	328.004 i 311.005	328.004 i 311.004	328.004 i 311.003	328.004 i 311.004	328.004 i 311.004



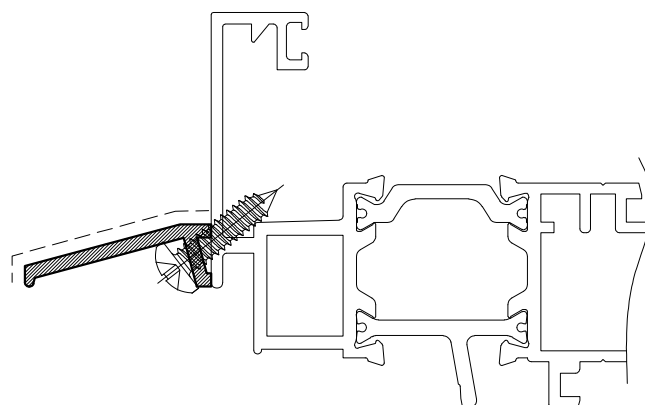
Profil rukohvata vrata Door handle profile		
Art.Br. Art.Nr.	F-0829	
Težina Weight	kg/m	0.953
Opseg Perimeter	mm	119
L	mm	6500

Profil Profile		
Art.Br. Art.Nr.	NC-1459	
Težina Weight	kg/m	0.156
Opseg Perimeter	mm	49
L	mm	6500

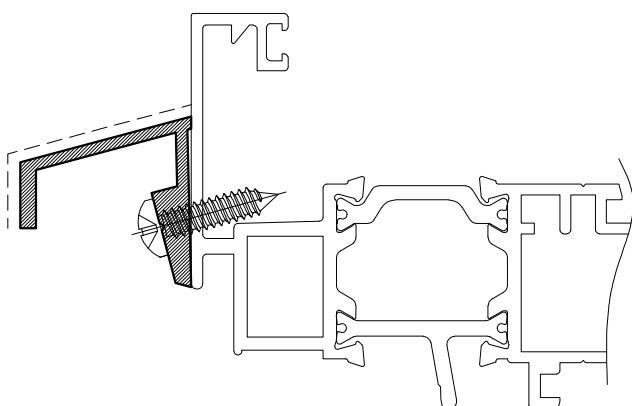
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



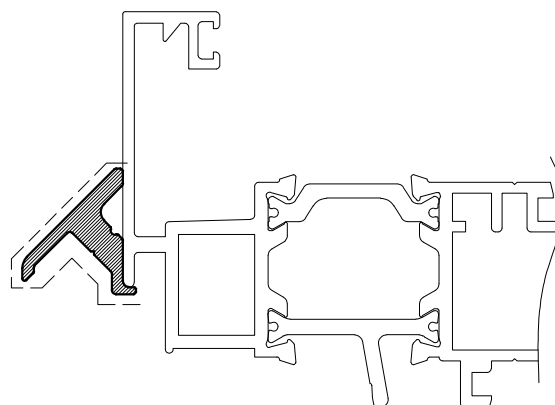
Profil Profile		
Art.Br. Art.Nr.	Z40-657	
Težina Weight	kg/m	0.186
Opseg Perimeter	mm	73
L	mm	6500



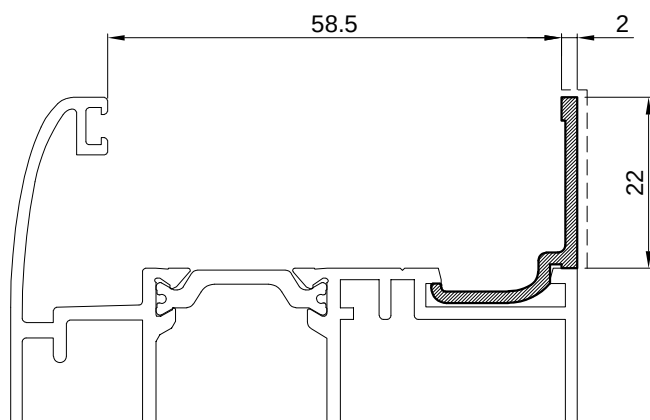
Profil Profile		
Art.Br. Art.Nr.	F-0228	
Težina Weight	kg/m	0.153
Opseg Perimeter	mm	68
L	mm	6500



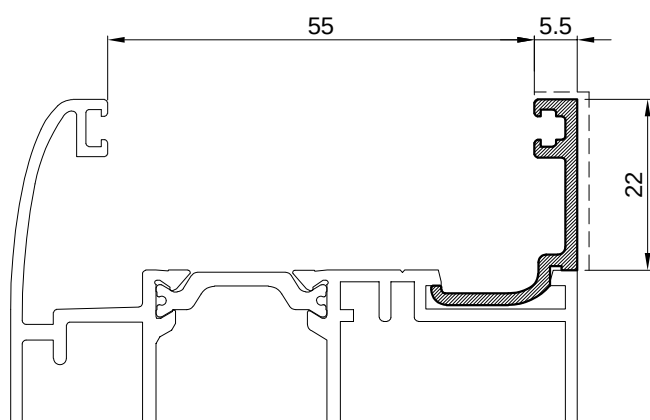
Profil Profile		
Art.Br. Art.Nr.	060350	
Težina Weight	kg/m	0.285
Opseg Perimeter	mm	107
L	mm	6500



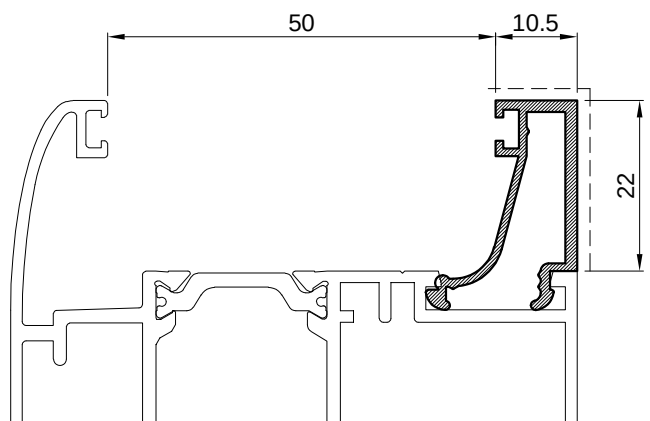
Profil okapnice Drip cap profile		
Art.Br. Art.Nr.	F-1842	
Težina Weight	kg/m'	0.181
Opseg Perimeter	mm	63
L	mm	6500



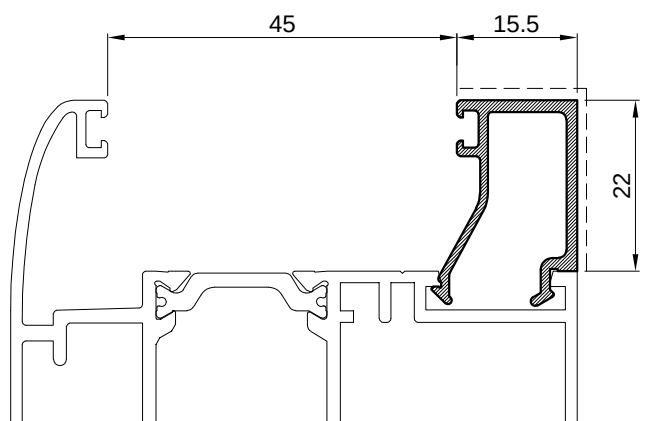
Profil Profile		
Art.Br. Art.Nr.	Z40-660	
Težina Weight	kg/m	0.179
Opseg Perimeter	mm	89
L	mm	6500



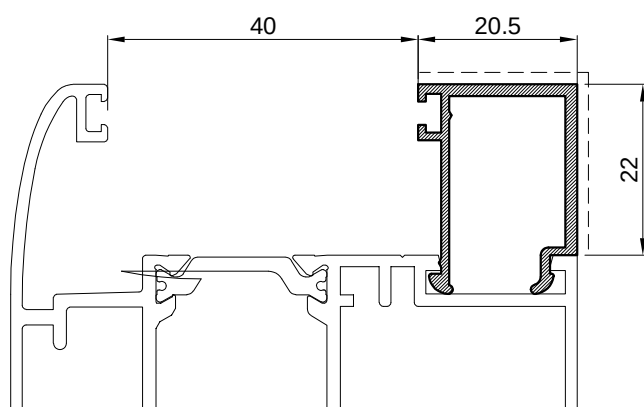
Profil Profile		
Art.Br. Art.Nr.	Z40-656	
Težina Weight	kg/m	0.215
Opseg Perimeter	mm	107
L	mm	6500



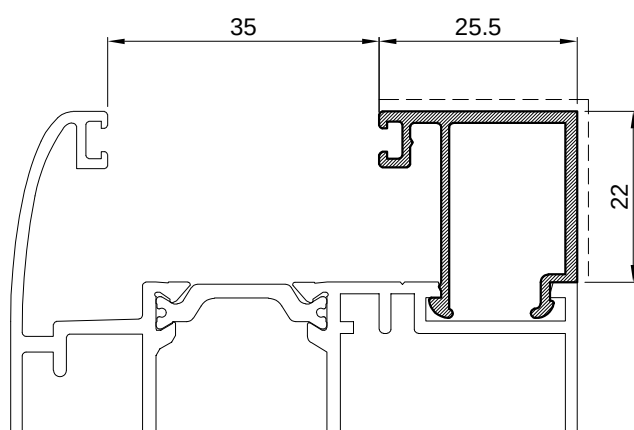
Profil Profile		
Art.Br. Art.Nr.	Z40-636	
Težina Weight	kg/m	0.261
Opseg Perimeter	mm	158
L	mm	6500



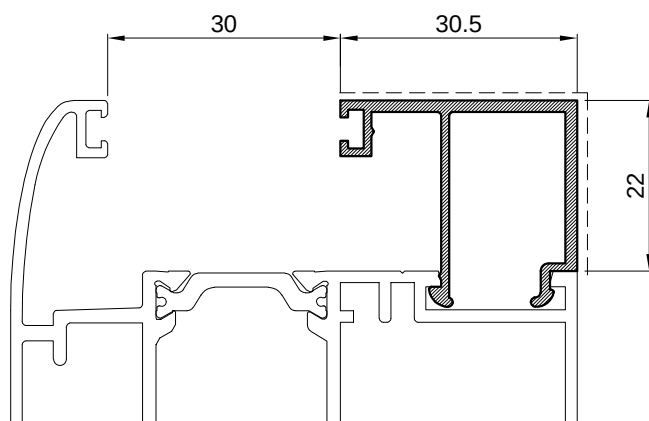
Profil Profile		
Art.Br. Art.Nr.	M45-709	
Težina Weight	kg/m	0.258
Opseg Perimeter	mm	153
L	mm	6500



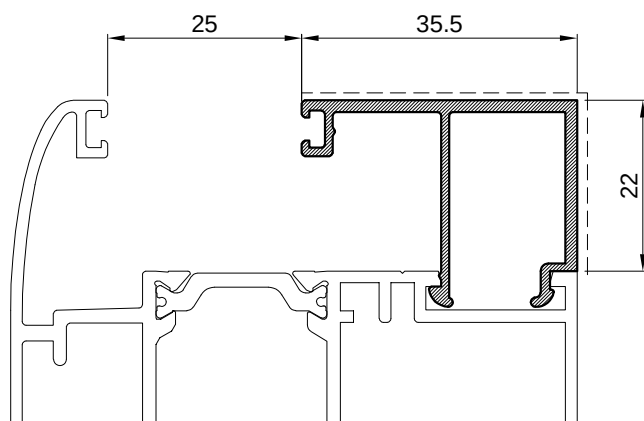
Profil Profile		
Art.Br. Art.Nr.	Z40-644	
Težina Weight	kg/m	0.275
Opseg Perimeter	mm	166
L	mm	6500



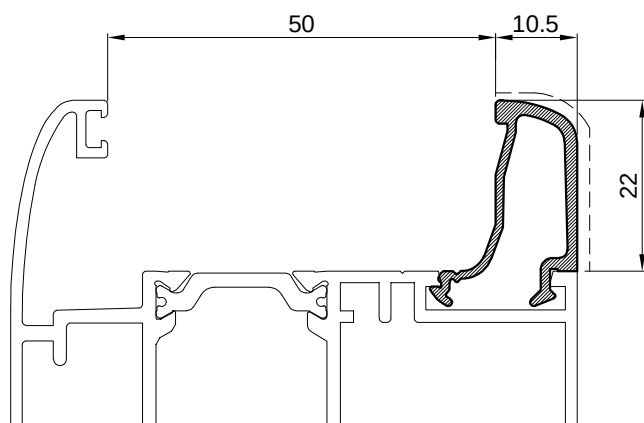
Profil Profile		
Art.Br. Art.Nr.	Z40-658	
Težina Weight	kg/m	0.318
Opseg Perimeter	mm	184
L	mm	6500



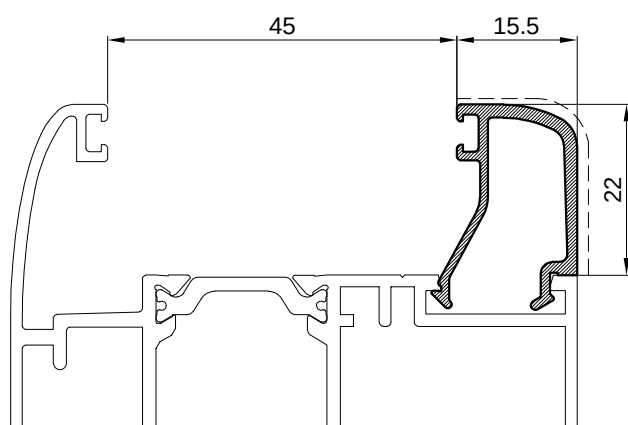
Profil Profile		
Art.Br. Art.Nr.	Z40-653	
Težina Weight	kg/m	0.347
Opseg Perimeter	mm	196
L	mm	6500



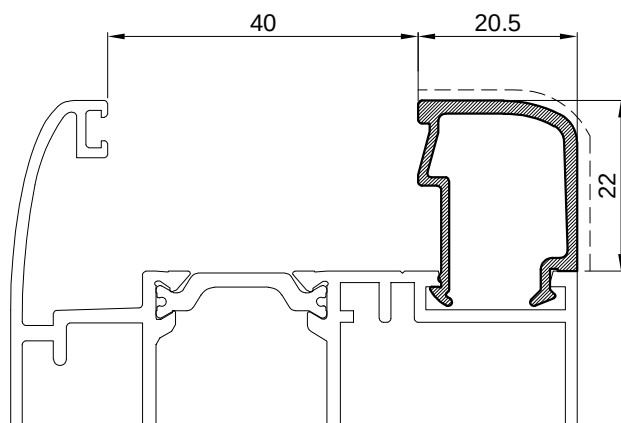
Profil Profile		
Art.Br. Art.Nr.	Z40-659	
Težina Weight	kg/m	0.359
Opseg Perimeter	mm	204
L	mm	6500



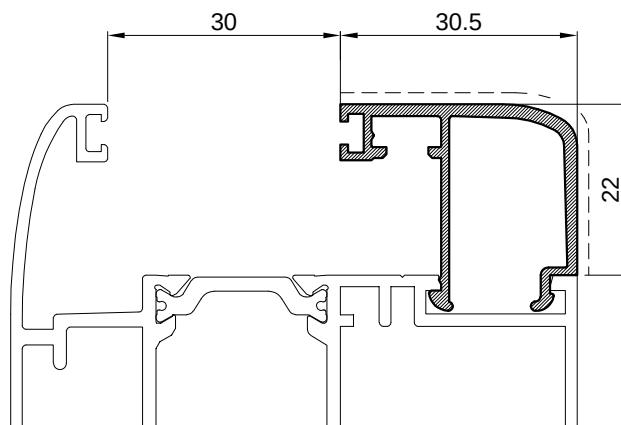
Profil Profile		
Art.Br. Art.Nr.	Z40-647	
Težina Weight	kg/m	0.226
Opseg Perimeter	mm	138
L	mm	6500



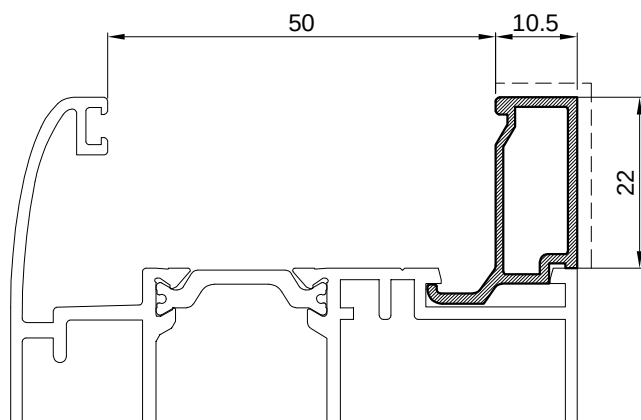
Profil Profile		
Art.Br. Art.Nr.	M45-740	
Težina Weight	kg/m	0.258
Opseg Perimeter	mm	148
L	mm	6500



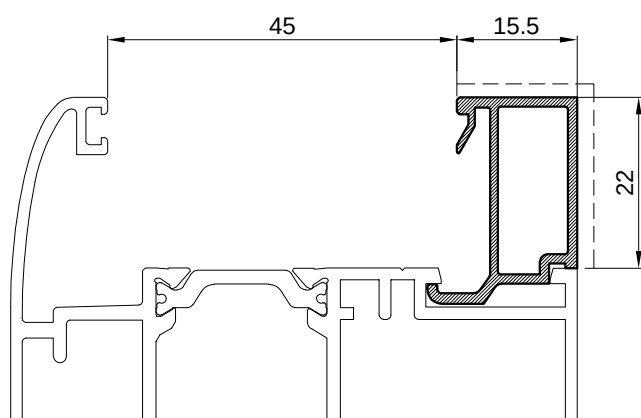
Profil Profile		
Art.Br. Art.Nr.	Z40-646	
Težina Weight	kg/m	0.286
Opseg Perimeter	mm	154
L	mm	6500



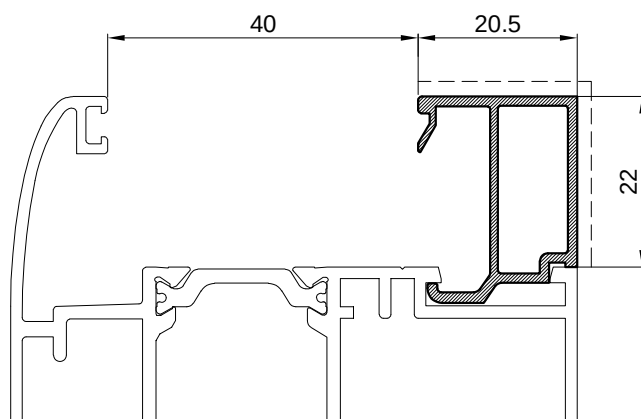
Profil Profile		
Art.Br. Art.Nr.	Z40-653/B	
Težina Weight	kg/m	0.356
Opseg Perimeter	mm	197
L	mm	6500



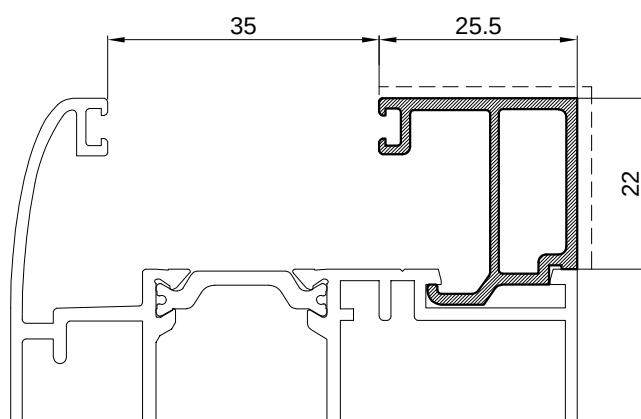
Profil Profile		
Art.Br. Art.Nr.	Z40-664	
Težina Weight	kg/m	0.243
Opseg Perimeter	mm	93
L	mm	6500



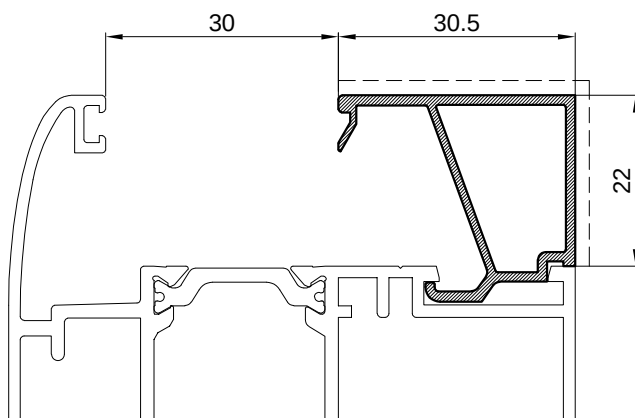
Profil Profile		
Art.Br. Art.Nr.	Z40-665	
Težina Weight	kg/m	0.272
Opseg Perimeter	mm	112
L	mm	6500



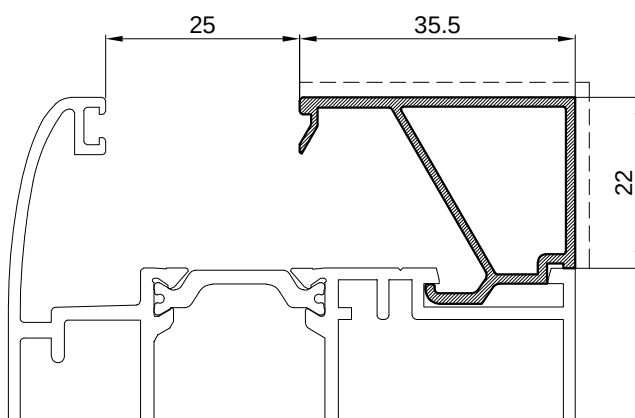
Profil Profile		
Art.Br. Art.Nr.	Z40-666	
Težina Weight	kg/m	0.289
Opseg Perimeter	mm	122
L	mm	6500



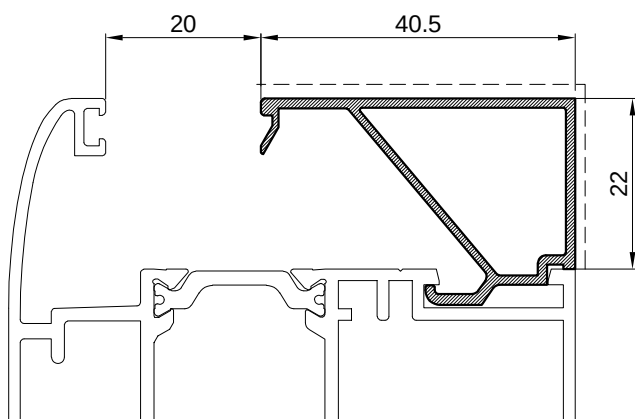
Profil Profile		
Art.Br. Art.Nr.	Z40-667	
Težina Weight	kg/m	0.358
Opseg Perimeter	mm	139
L	mm	6500



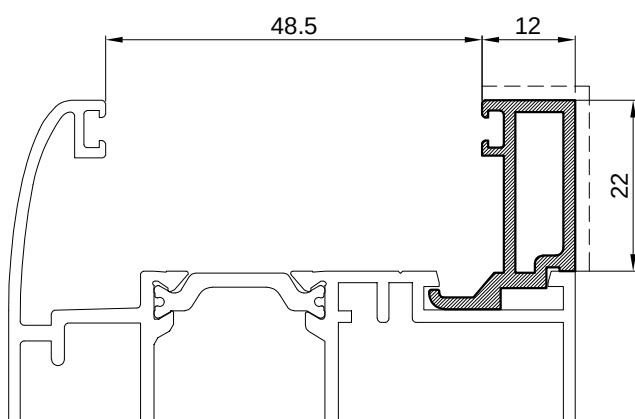
Profil Profile		
Art.Br. Art.Nr.	Z40-668	
Težina Weight	kg/m	0.326
Opseg Perimeter	mm	135
L	mm	6500



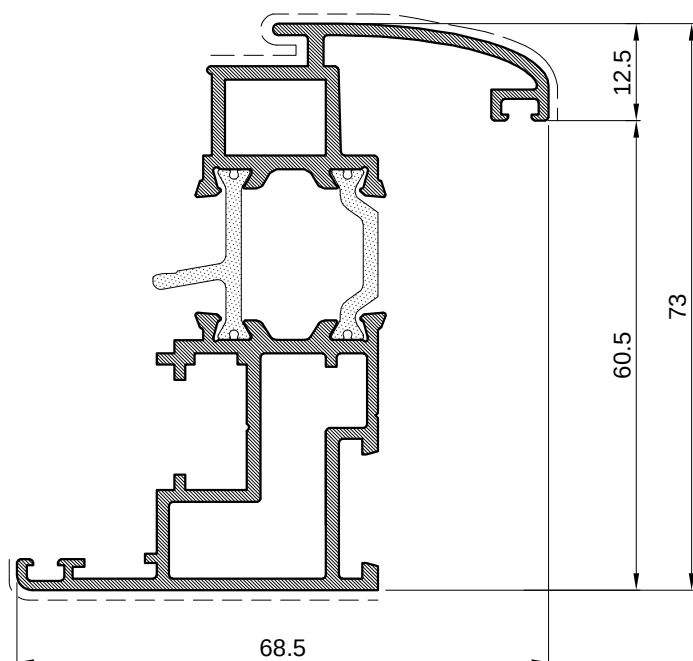
Profil Profile		
Art.Br. Art.Nr.	Z40-669	
Težina Weight	kg/m	0.347
Opseg Perimeter	mm	143
L	mm	6500



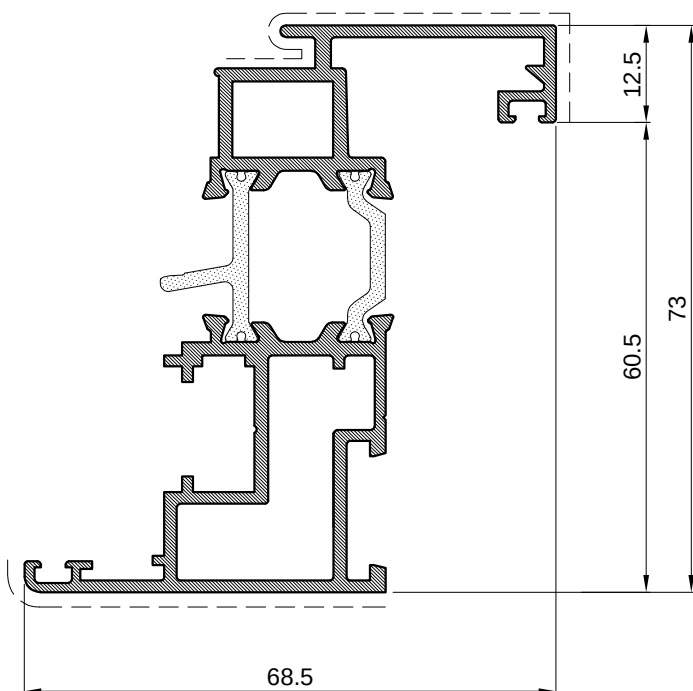
Profil Profile		
Art.Br. Art.Nr.	Z40-670	
Težina Weight	kg/m	0.373
Opseg Perimeter	mm	150
L	mm	6500



Profil Profile		
Art.Br. Art.Nr.	F-0784	
Težina Weight	kg/m	0.330
Opseg Perimeter	mm	105
L	mm	6500

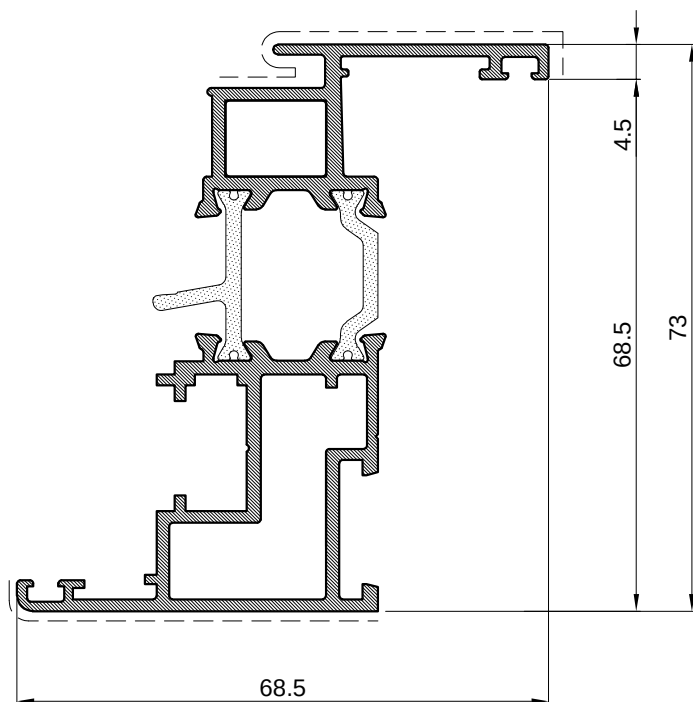


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	FT-0236	
Težina Weight	kg/m	1.529
Opseg Perimeter	mm	420
Moment inercije Moment of inertia	I _x (cm ⁴)	24.16
	I _y (cm ⁴)	9.06
	W _x (cm ³)	8.57
	W _y (cm ³)	2.59
L	mm	6500



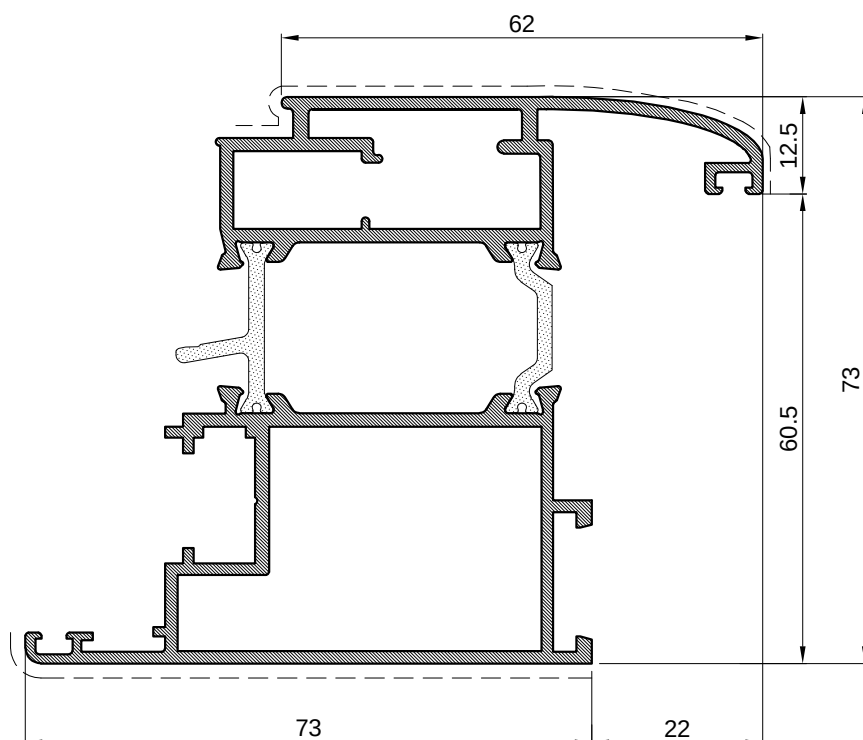
Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	FT-0239	
Težina Weight	kg/m	1.543
Opseg Perimeter	mm	415
Moment inercije Moment of inertia	I _x (cm ⁴)	25.27
	I _y (cm ⁴)	10.24
	W _x (cm ³)	9.17
	W _y (cm ³)	2.87
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”

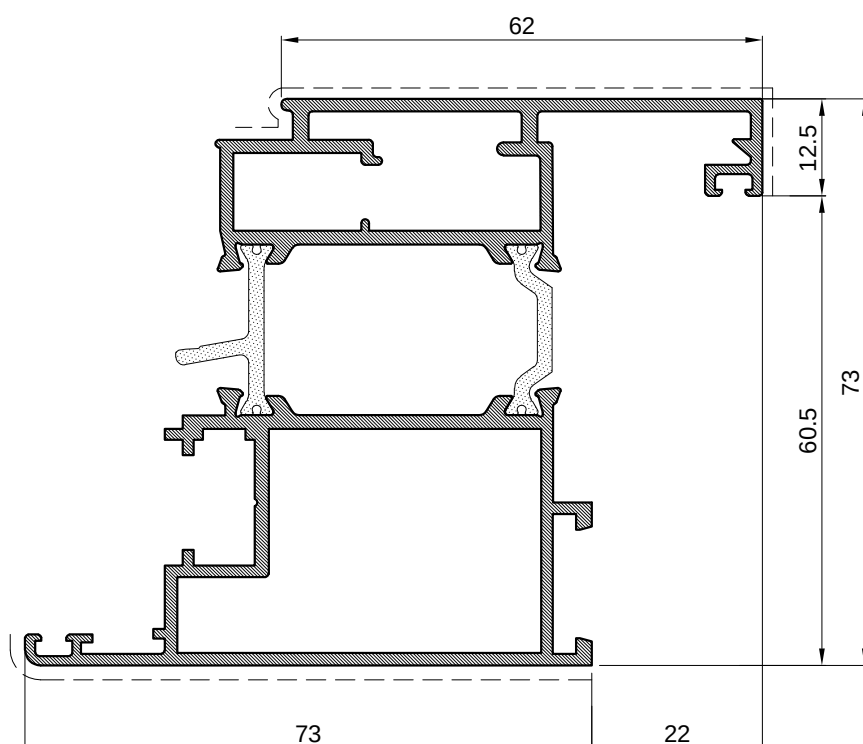


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	FT-0296	
Težina Weight	kg/m	1.496
Opseg Perimeter	mm	429
Moment inercije Moment of inertia	Ix (cm ⁴)	23.8
	Iy (cm ⁴)	8.23
	Wx (cm ³)	8.55
	Wy (cm ³)	2.38
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
 PROFILE WITH XPS HAVE ENDING „F”

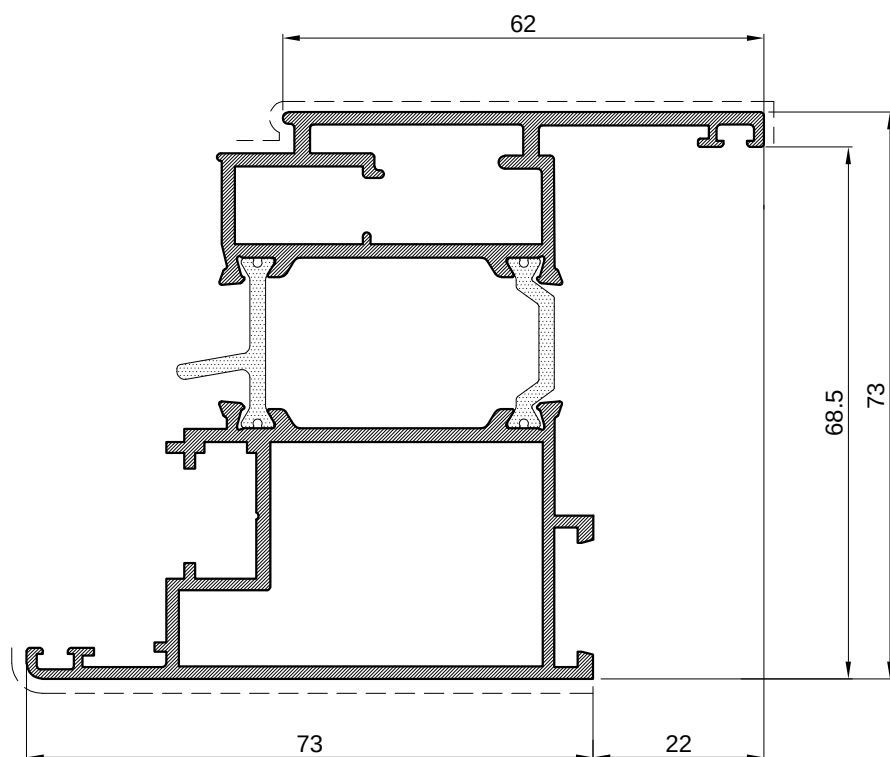


Profil krila prozora Window sash profile		
Art.Br. Art.Nr.	FT-0244	
Težina Weight	kg/m	2.016
Opseg Perimeter	mm	471
Moment inerције Moment of inertia	Ix (cm ⁴)	35.39
	Iy (cm ⁴)	31.4
	Wx (cm ³)	12.39
	Wy (cm ³)	6.56
L	mm	6500



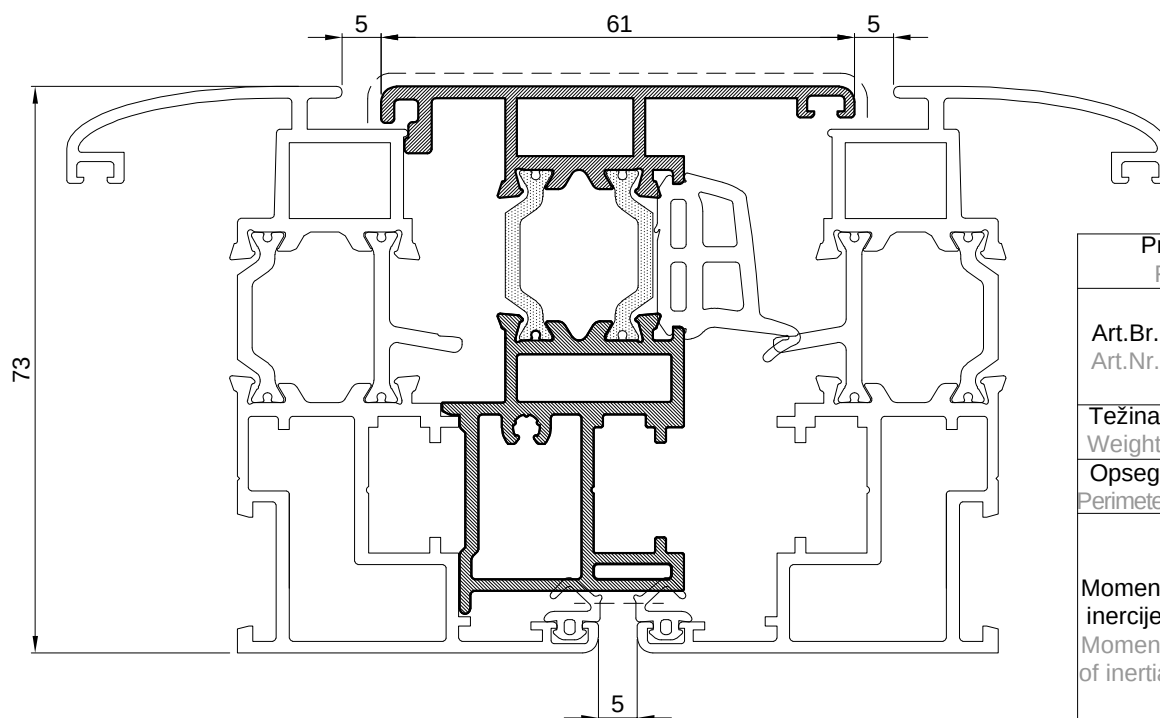
Profil krila prozora Window sash profile		
Art.Br. Art.Nr.	FT-0246	
Težina Weight	kg/m	2.046
Opseg Perimeter	mm	476
Moment inercije Moment of inertia	Ix (cm ⁴)	36.46
	Iy (cm ⁴)	33.81
	Wx (cm ³)	12.59
	Wy (cm ³)	7.06
L	mm	6500

PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
PROFILE WITH XPS HAVE ENDING „F”



Profil krila prozora Window sash profile		
Art.Br. Art.Nr.	FT-1610	
Težina Weight	kg/m	2.005
Opseg Perimeter	mm	446
Moment inercije Moment of inertia	Ix (cm ⁴)	35.7
	Iy (cm ⁴)	29.46
	Wx (cm ³)	12.52
	Wy (cm ³)	6.08
L	mm	6500

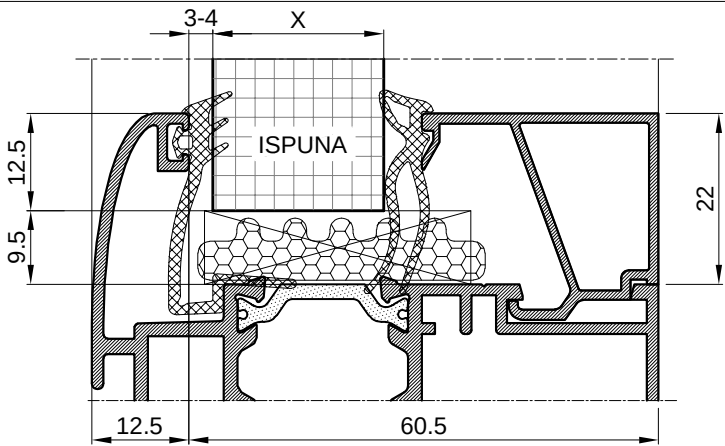
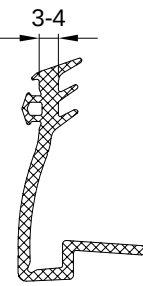
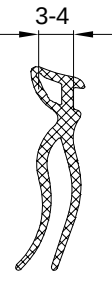
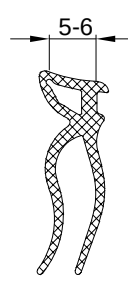
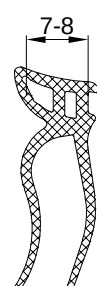
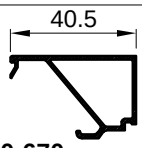
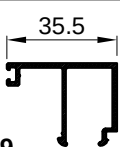
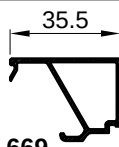
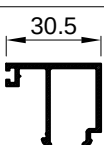
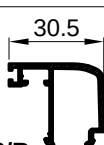
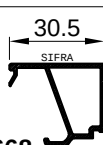
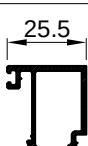
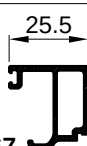
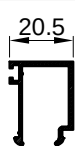
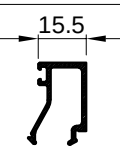
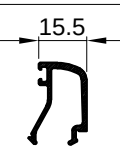
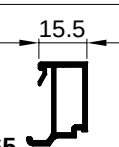
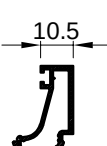
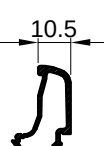
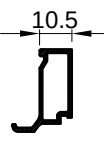
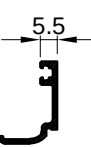
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
 PROFILE WITH XPS HAVE ENDING „F”

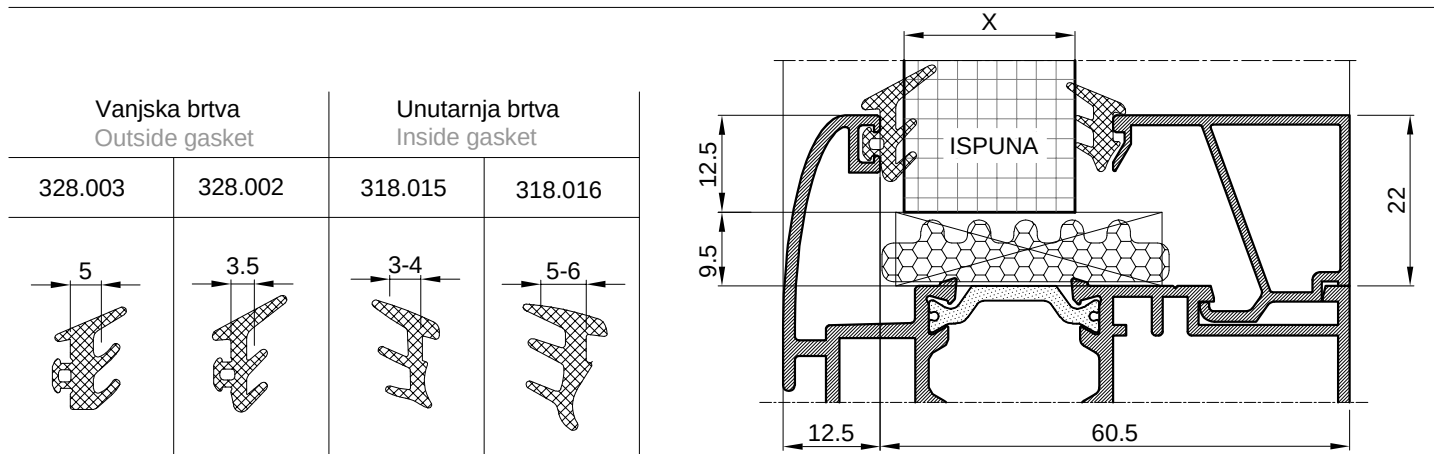


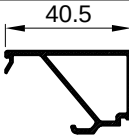
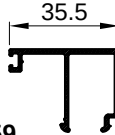
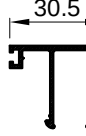
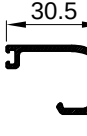
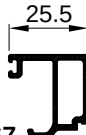
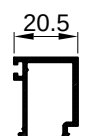
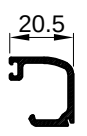
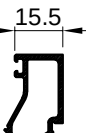
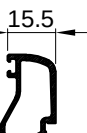
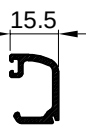
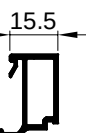
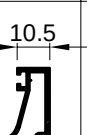
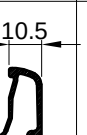
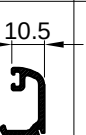
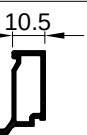
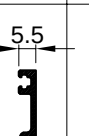
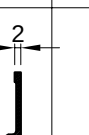
Profil kombatute Flying mullion		
Art.Br. Art.Nr.	FT-0237	
Težina Weight	kg/m	1.527
Opseg Perimeter	mm	350
Moment inercije Moment of inertia	Ix (cm4)	19.69
	Iy (cm4)	7.33
	Wx (cm3)	6.91
	Wy (cm3)	2.07
L	mm	6500

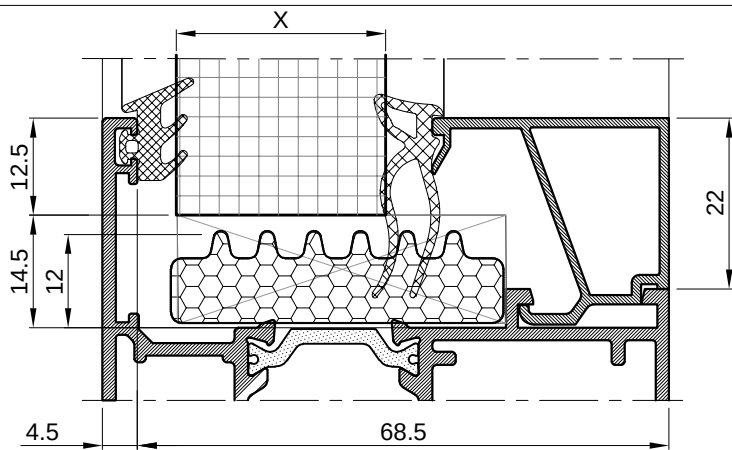
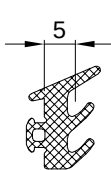
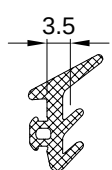
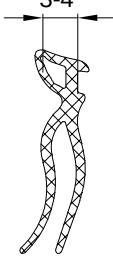
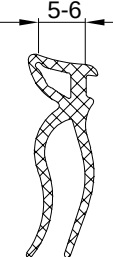
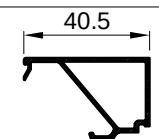
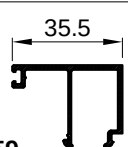
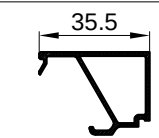
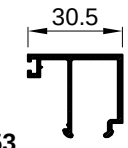
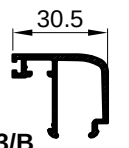
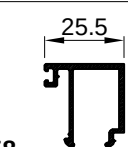
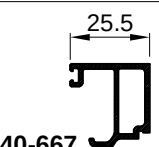
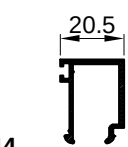
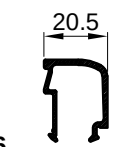
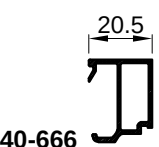
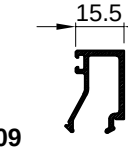
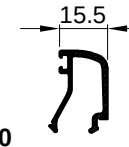
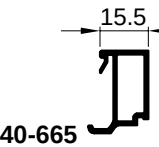
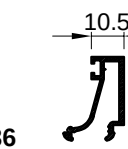
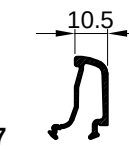
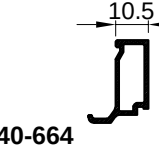
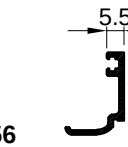
PROFIL SA XPS ISPUNOM U NAZIVU IMA NASTAVAK „F”
 PROFILE WITH XPS HAVE ENDING „F”

Prikaz stakljenja Glazing

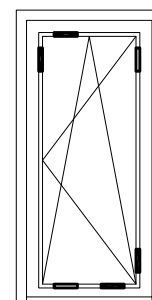
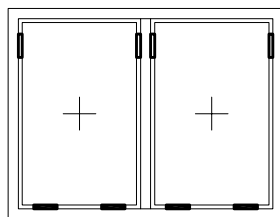
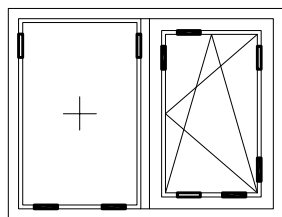
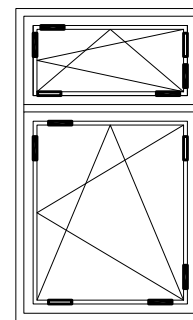
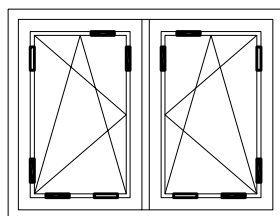
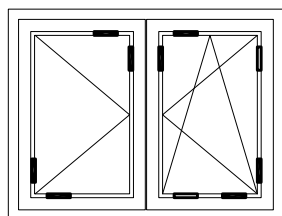
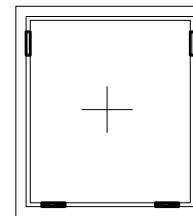
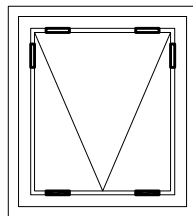
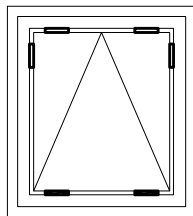
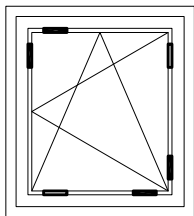
Vanjska brtva Outside gasket		Unutarnje brtve Inside gasket				
328.004	311.003	311.004	311.005			
						
Ispuna X Fillings X	Vanjska brtva Outside gas.	Unutar. brtva Inside gasket	LAJSNE ZA STAKLO GLAZING BEADS			
9	328.004	311.005				
10-11	328.004	311.004				
12-13	328.004	311.003			Z40-670	
14	328.004	311.005				
15-16	328.004	311.004			Z40-669	
17-18	328.004	311.003				
19	328.004	311.005				
20-21	328.004	311.004			Z40-668	
22-23	328.004	311.003				
24	328.004	311.005				
25-26	328.004	311.004			Z40-667	
27-28	328.004	311.003				
29	328.004	311.005				
30-31	328.004	311.004			Z40-666	
32-33	328.004	311.003				
34	328.004	311.005				
35-36	328.004	311.004			Z40-665	
37-38	328.004	311.003				
39	328.004	311.005				
40-41	328.004	311.004			Z40-664	
42-43	328.004	311.003				
44	328.004	311.005				
45-46	328.004	311.004				
47-48	328.004	311.003				
49-50	328.004	311.004				
51	328.004	311.003			Z40-660	



Ispuna X Fillings X	Vanjska brtva Outside gas.	Unutar. brtva Inside gasket	LAJSNE ZA STAKLO GLAZING BEADS			
10	328.003	318.016				
11-12	328.003	318.015				
13	328.002	318.015				
14-15	328.003	318.016				
16-17	328.003	318.015				
18	328.002	318.015				
19-20	328.003	318.016				
21-22	328.003	318.015				
23	328.002	318.015				
24-25	328.003	318.016				
26-27	328.003	318.015				
28	328.002	318.015				
29-30	328.003	318.016				
31-32	328.003	318.015				
33	328.002	318.015				
34-35	328.003	318.016				
36-37	328.003	318.015				
38	328.002	318.015				
39-40	328.003	318.016				
41-42	328.003	318.015				
43	328.002	318.015				
44-45	328.003	318.016				
46-47	328.003	318.015				
48	328.002	318.015				
49-50	328.002	318.016				
51	328.002	318.015				

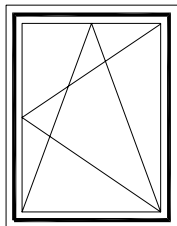
Vanjske brtve Outside gaskets		Unutarnje brtve Inside gaskets				
328.003	328.002	311.003	311.004			
						
Ispuna X Fillings X	Vanjska brtva Outside gas.	Unutar. brtva Inside gasket	LAJSNE ZA STAKLO GLAZING BEADS			
17-18	328.003	311.004			 Z40-670	
19-20	328.003	311.004				
21	328.002	311.003				
22-23	328.003	311.004	 Z40-659		 Z40-669	
24-25	328.003	311.004				
26	328.002	311.003				
27-28	328.003	311.004	 Z40-653	 Z40-653/B	 Z40-668	
29-30	328.003	311.004				
31	328.002	311.003				
32-33	328.003	311.004	 Z40-658		 Z40-667	
34-35	328.003	311.004				
36	328.002	311.003				
37-38	328.003	311.004	 Z40-644	 Z40-646	 Z40-666	
39-40	328.003	311.004				
41	328.002	311.003				
42-43	328.003	311.004	 M45-709	 M45-740	 Z40-665	
44-45	328.003	311.004				
46	328.002	311.003				
47-48	328.003	311.004	 Z40-636	 Z40-647	 Z40-664	
49-50	328.003	311.004				
51	328.002	311.003				
52-53	328.003	311.004	 Z40-656			
54-55	328.003	311.004				
56	328.002	311.003				
57-58	328.002	311.004	 Z40-660			
59	328.002	311.003				

PREPORUKE ZA RASPORED PODMETAČA KOD UGRADNJE ELEMENATA ZA ISPUNU RECOMMENDATION FOR PACKERS PLACEMENT BY INSTALLATION OF FILLINGS



-  nosivi podmetač
support packer
-  odstojni podmetač
distance packer

Materijal podmetača: PVC
Material packers: PVC

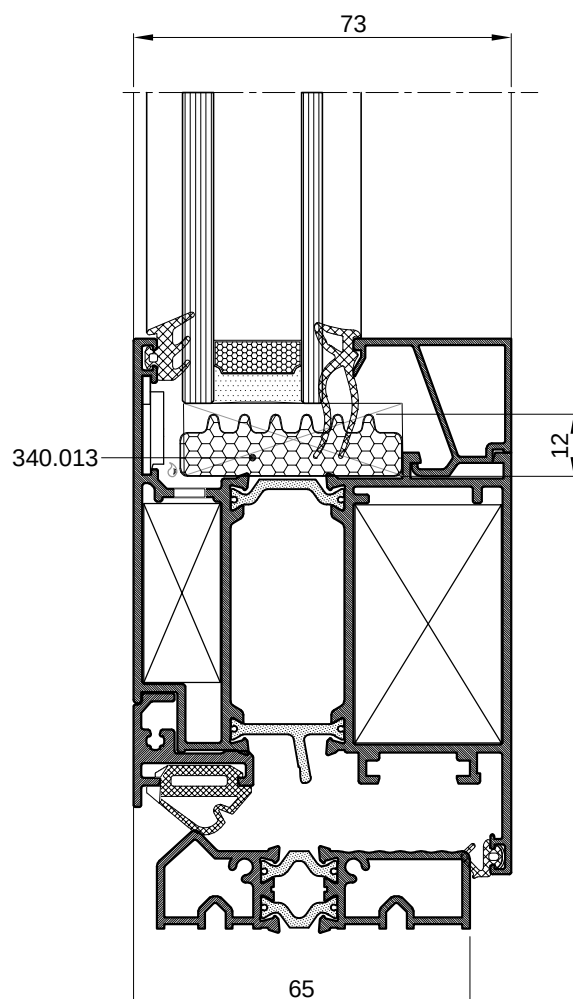
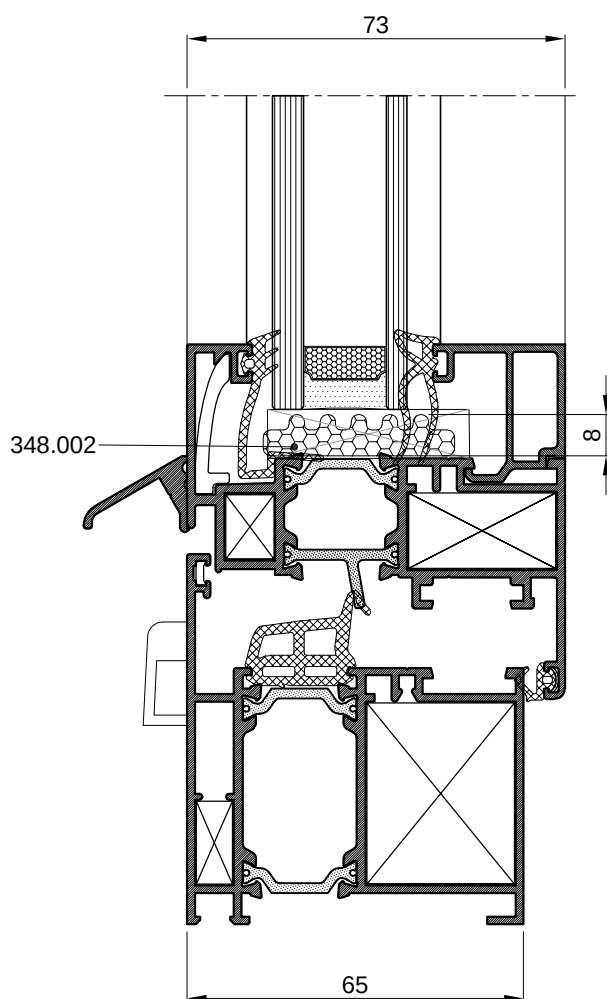


ISPUNA OKO STAKLA

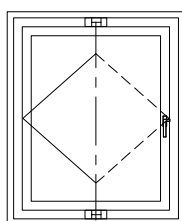
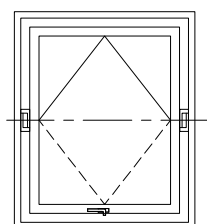
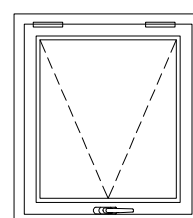
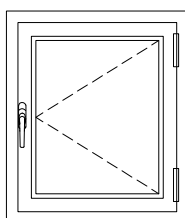
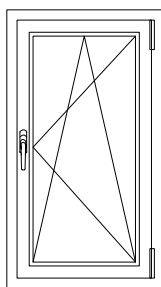
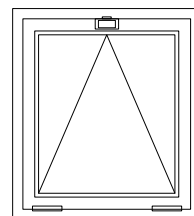
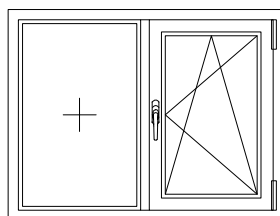
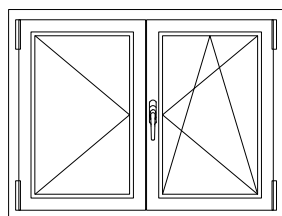
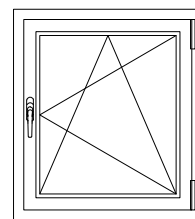
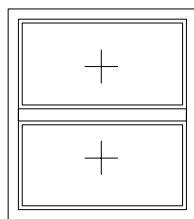
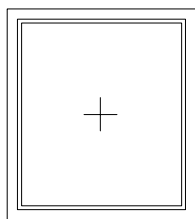
-Radi poboljšanja toplinskih svojstava, u prostor oko stakla se umeću profilirane trake, debljine 8 mm i 12 mm, od termoizolacijskog materijala XPE - $\lambda=0.038 \text{ W/m}^2\text{K}$

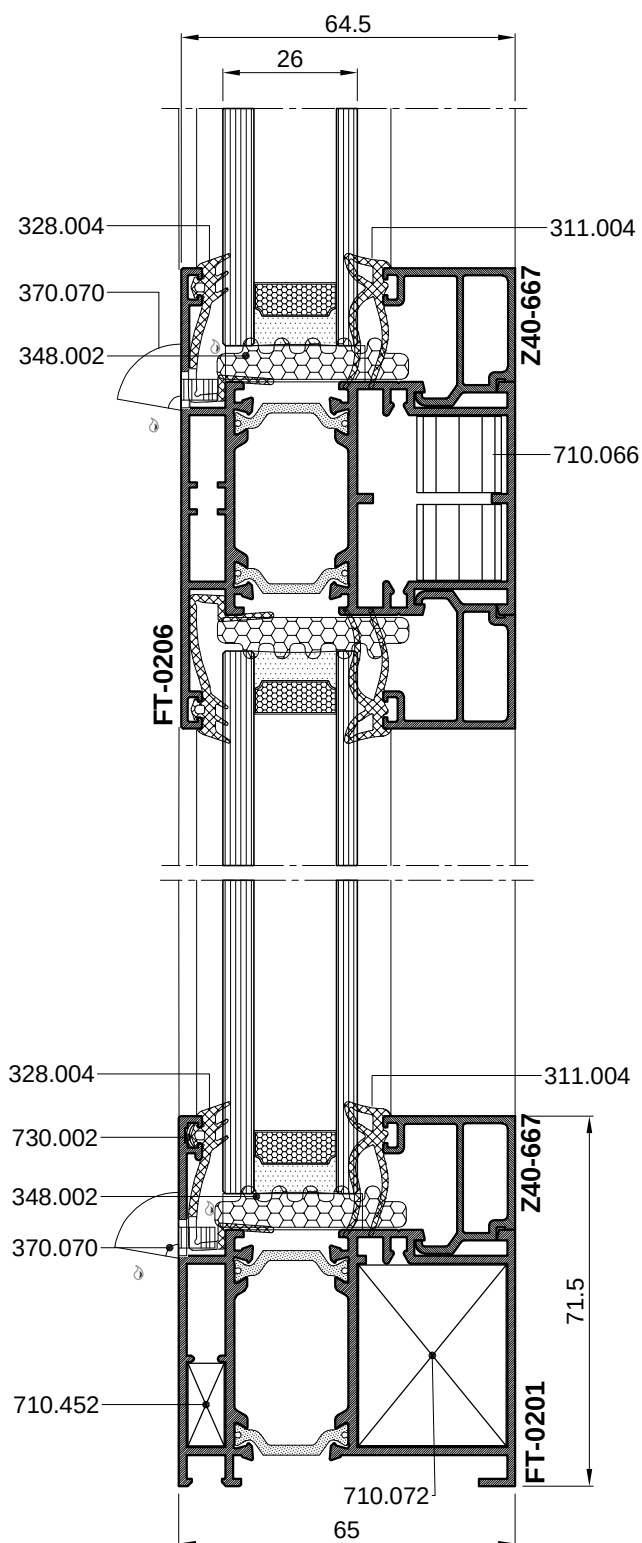
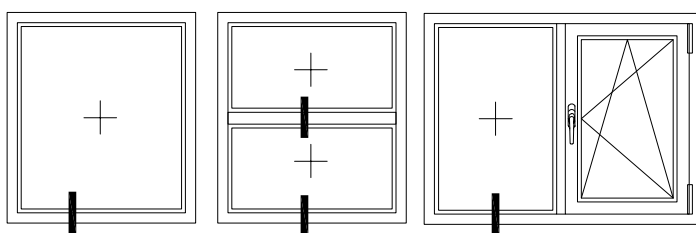
FILLING AROUND THE GLASS

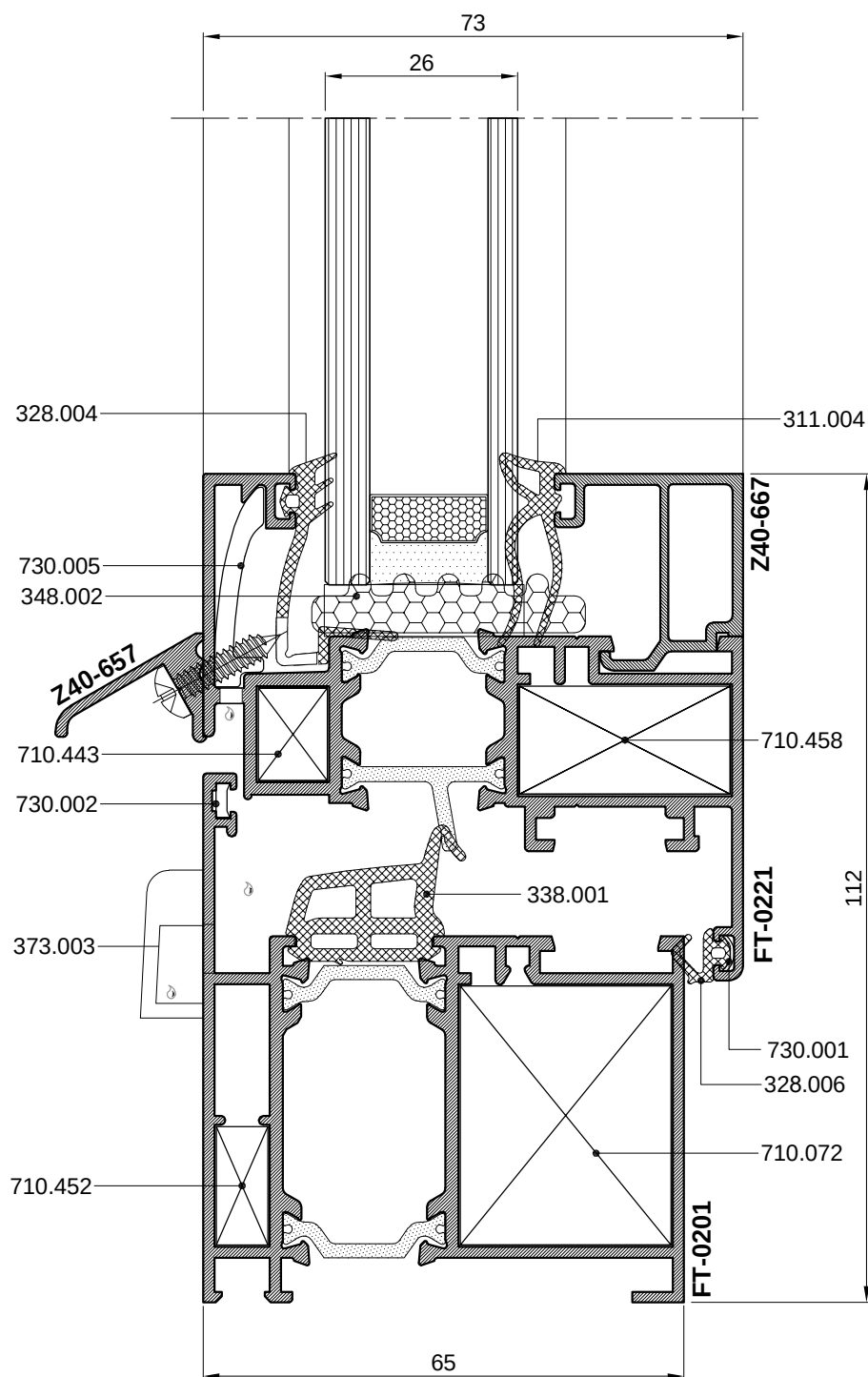
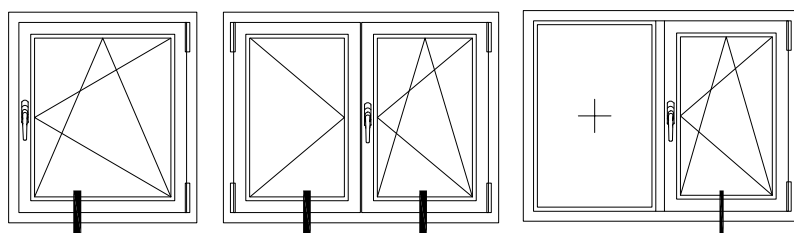
-To improve thermal properties, profiled strips are inserted into the area around the glass, thickness 8 mm and 12 mm, made of thermal insulation material XPE - $\lambda = 0.038 \text{ W / m}^2\text{K}$

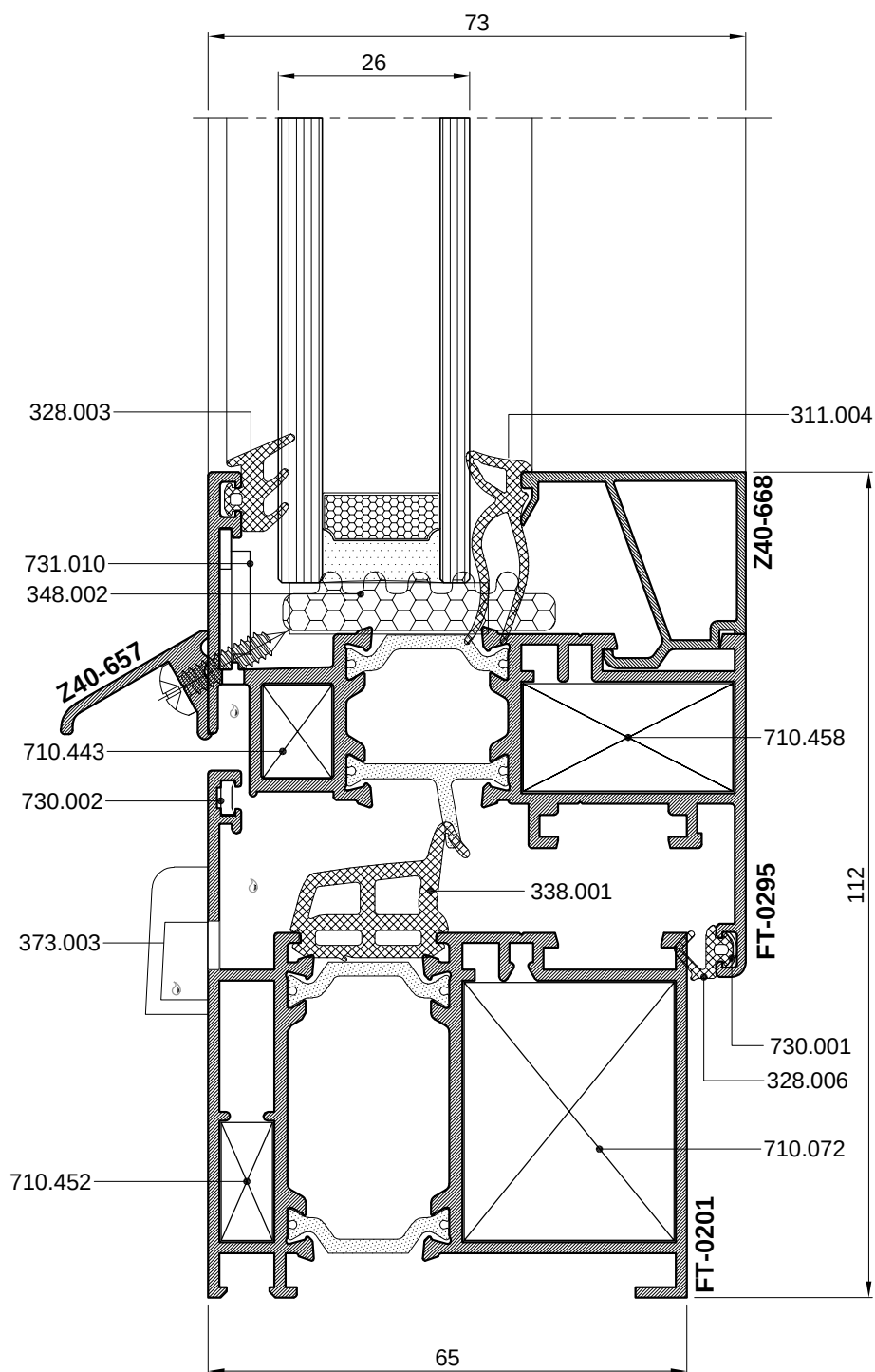
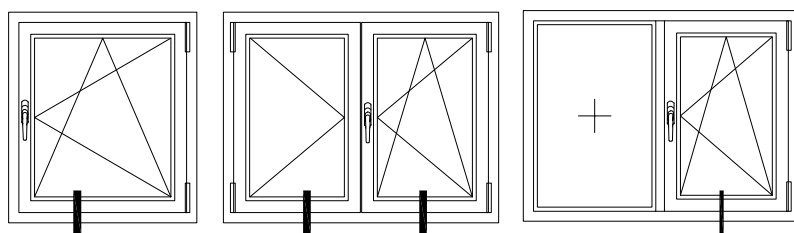


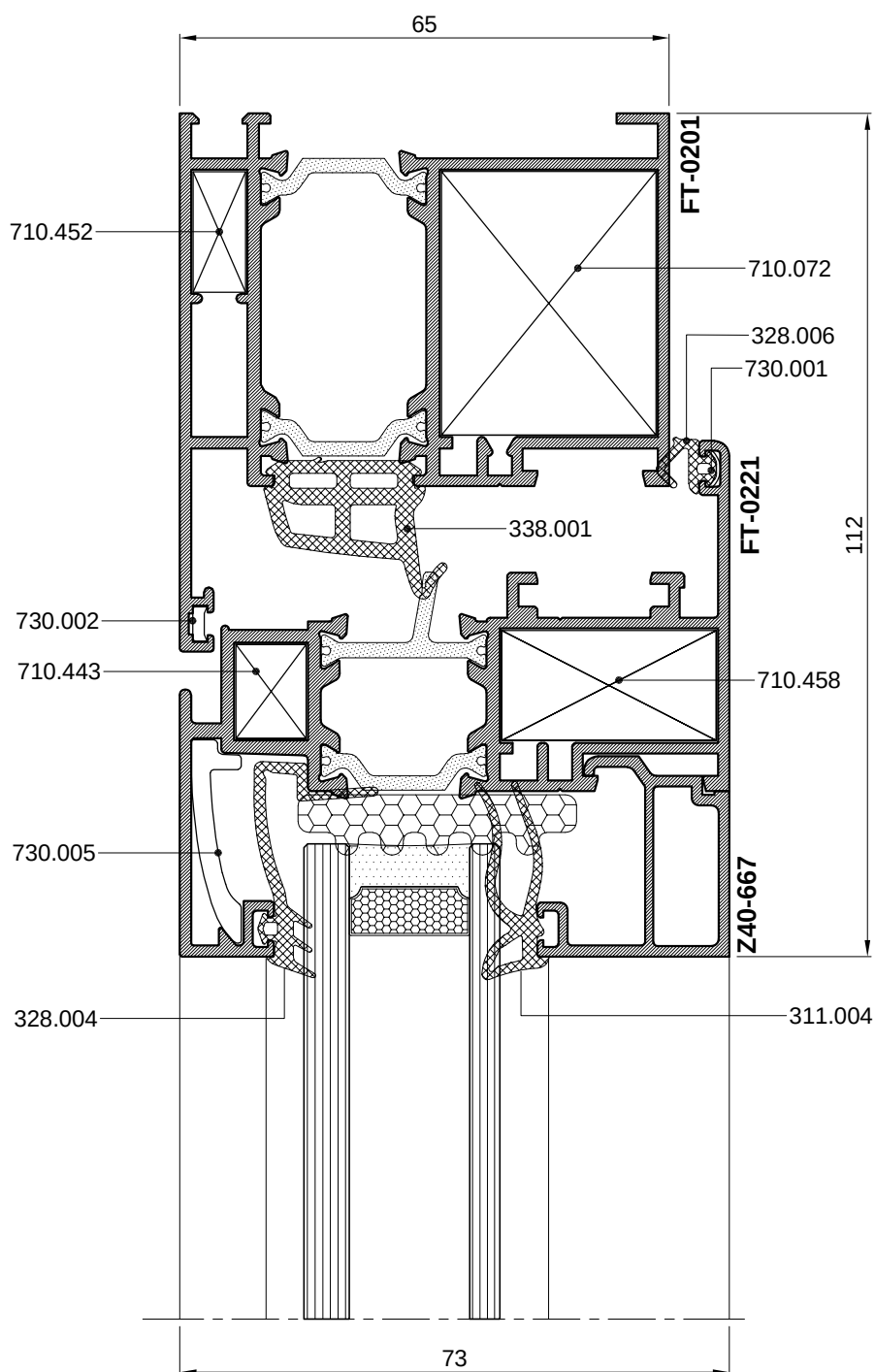
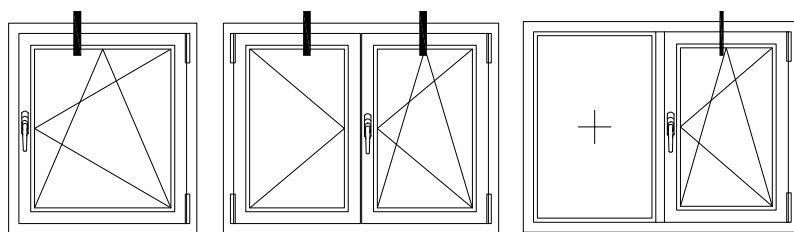
Presjeci Cross section

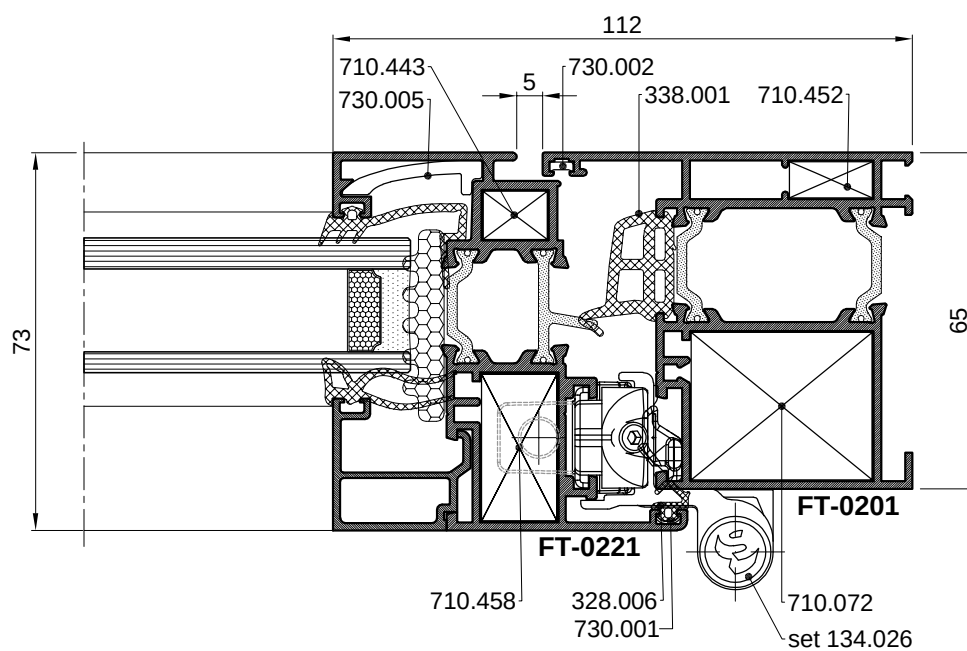
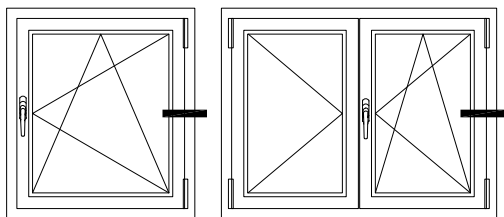




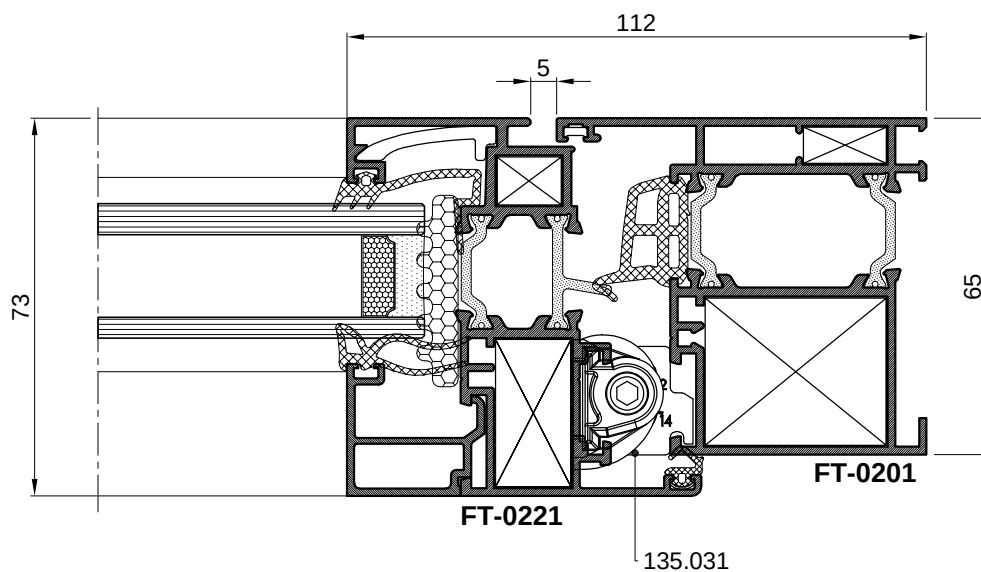


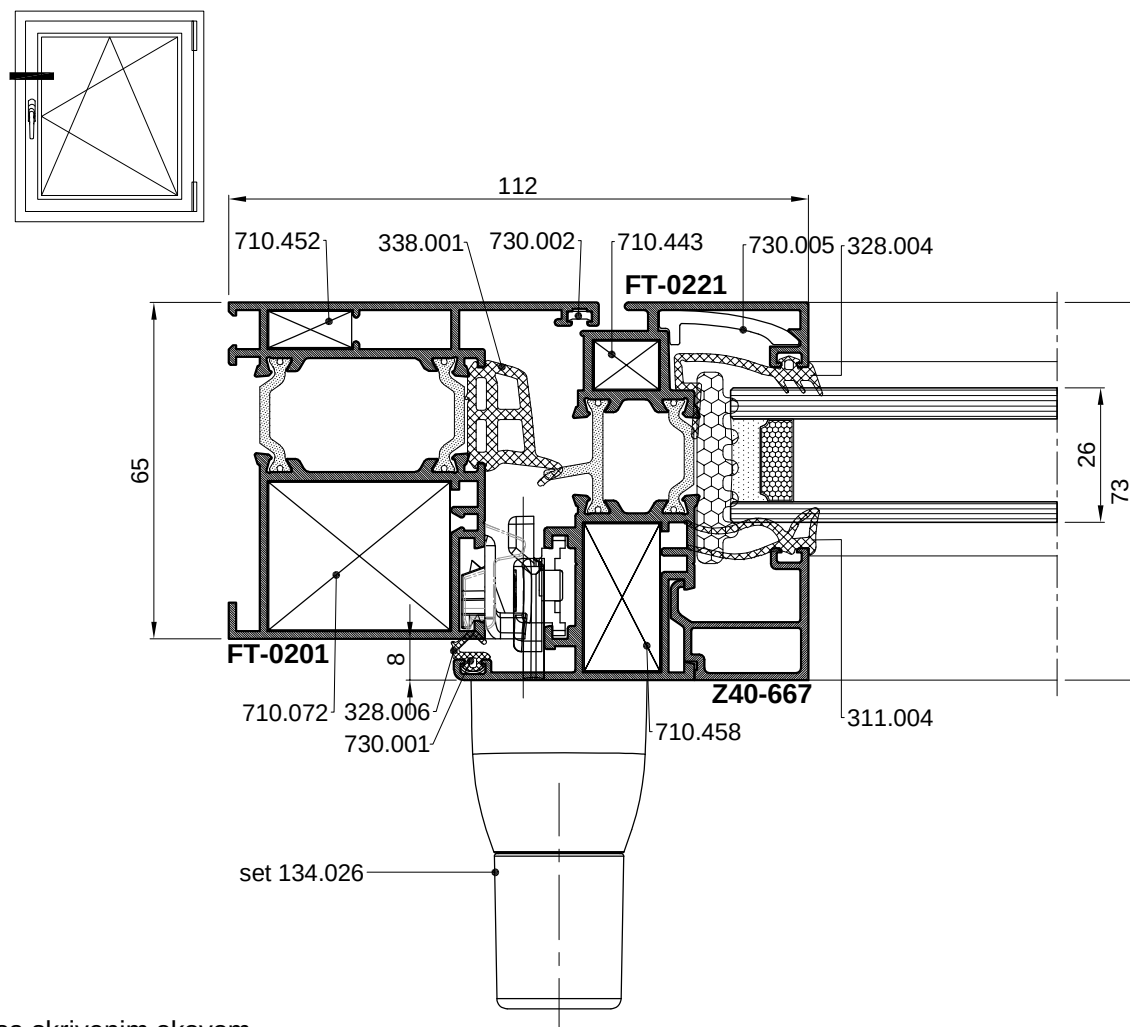






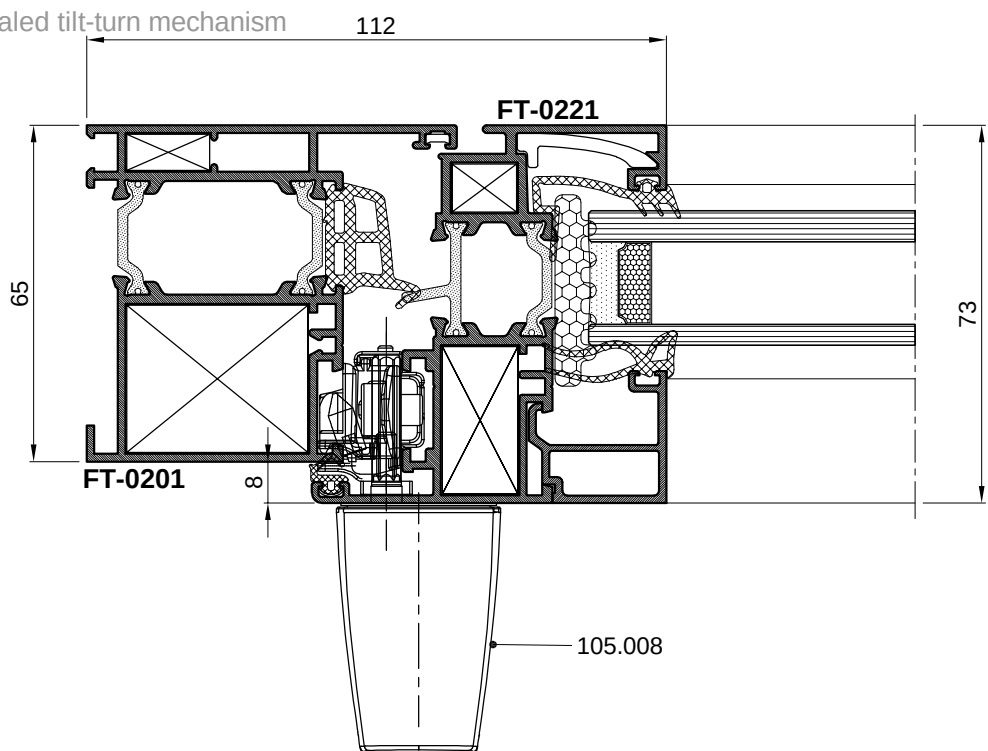
Detalj sa skrivenim okovom
Details with concealed tilt-turn mechanism

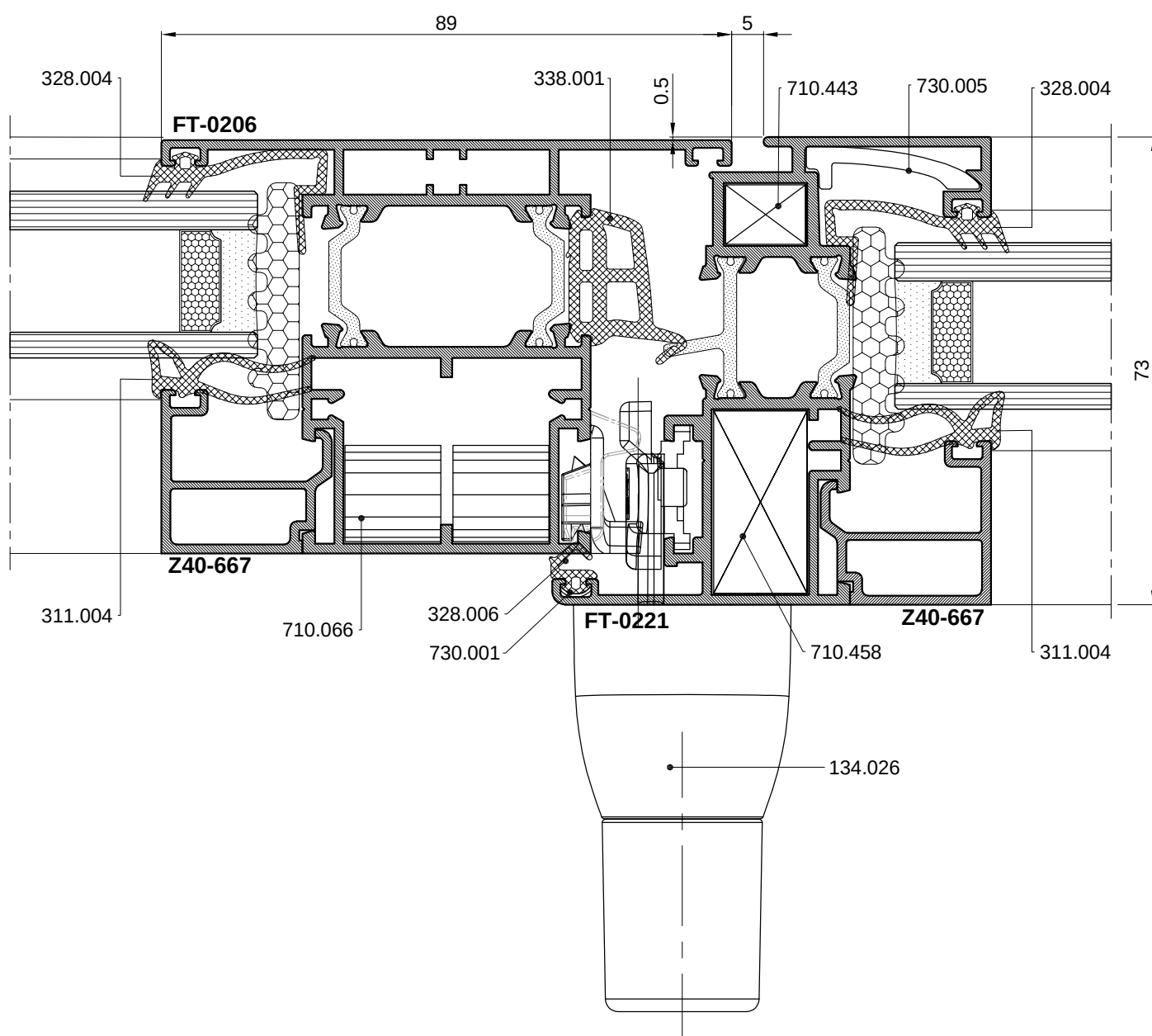
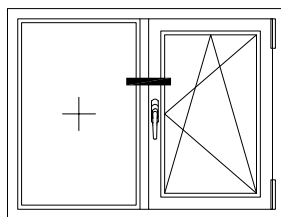


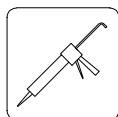
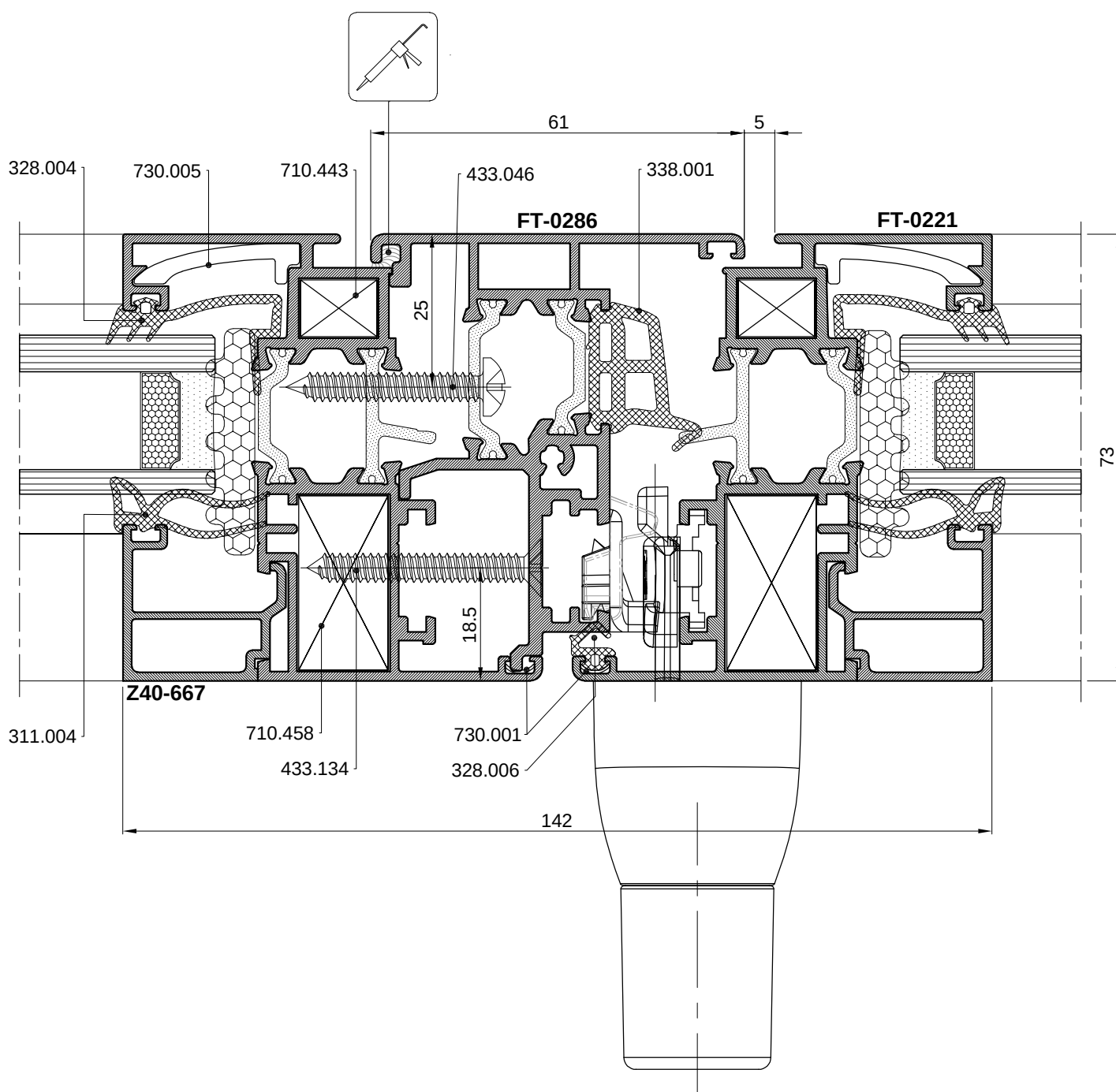
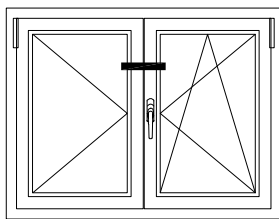


Detalj sa skrivenim okovom

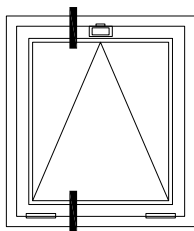
Details with concealed tilt-turn mechanism



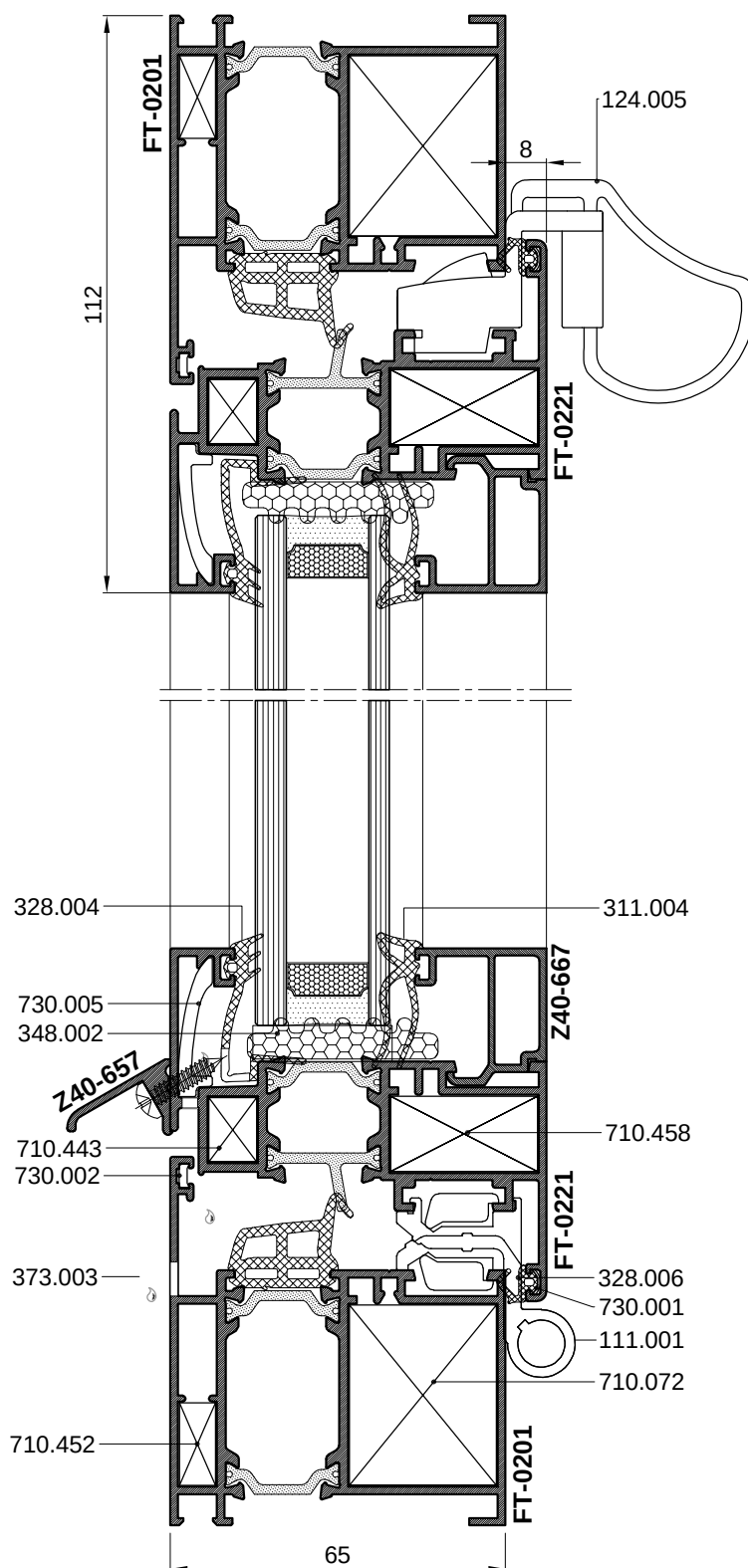


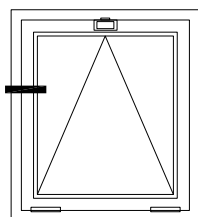


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

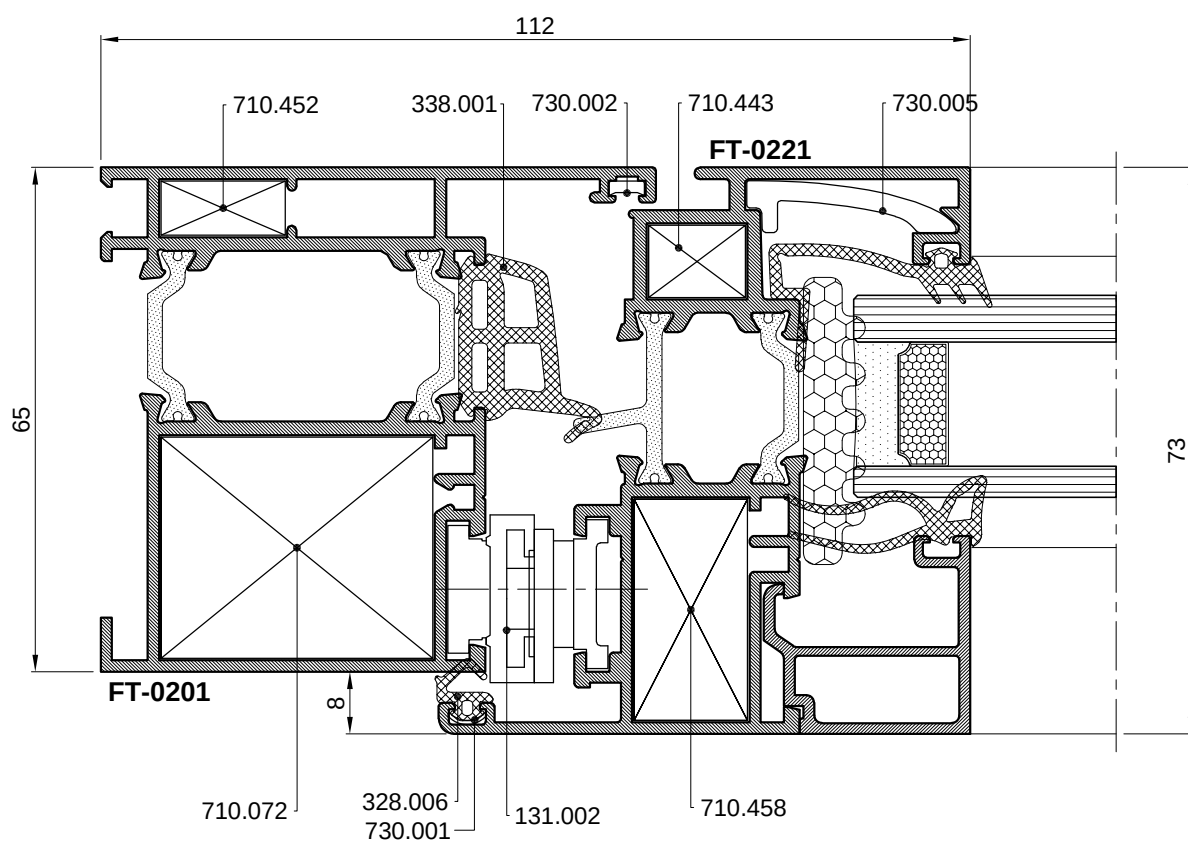


OTKLOPNI PROZOR - VENTUS
s bravicom za zatvaranje (124.005) i škarama (131.002)
TILT WINDOW - VENTUS
with lock for closing - (124.005) and scissors (131.002)

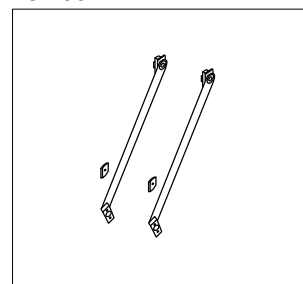


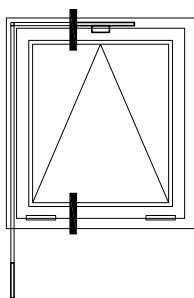


OTKLOPNI PROZOR - VENTUS
s bravicom za zatvaranje (124.005) i škarama (131.002)
TILT WINDOW - VENTUS
with lock for closing - (124.005) and scissors (131.002)

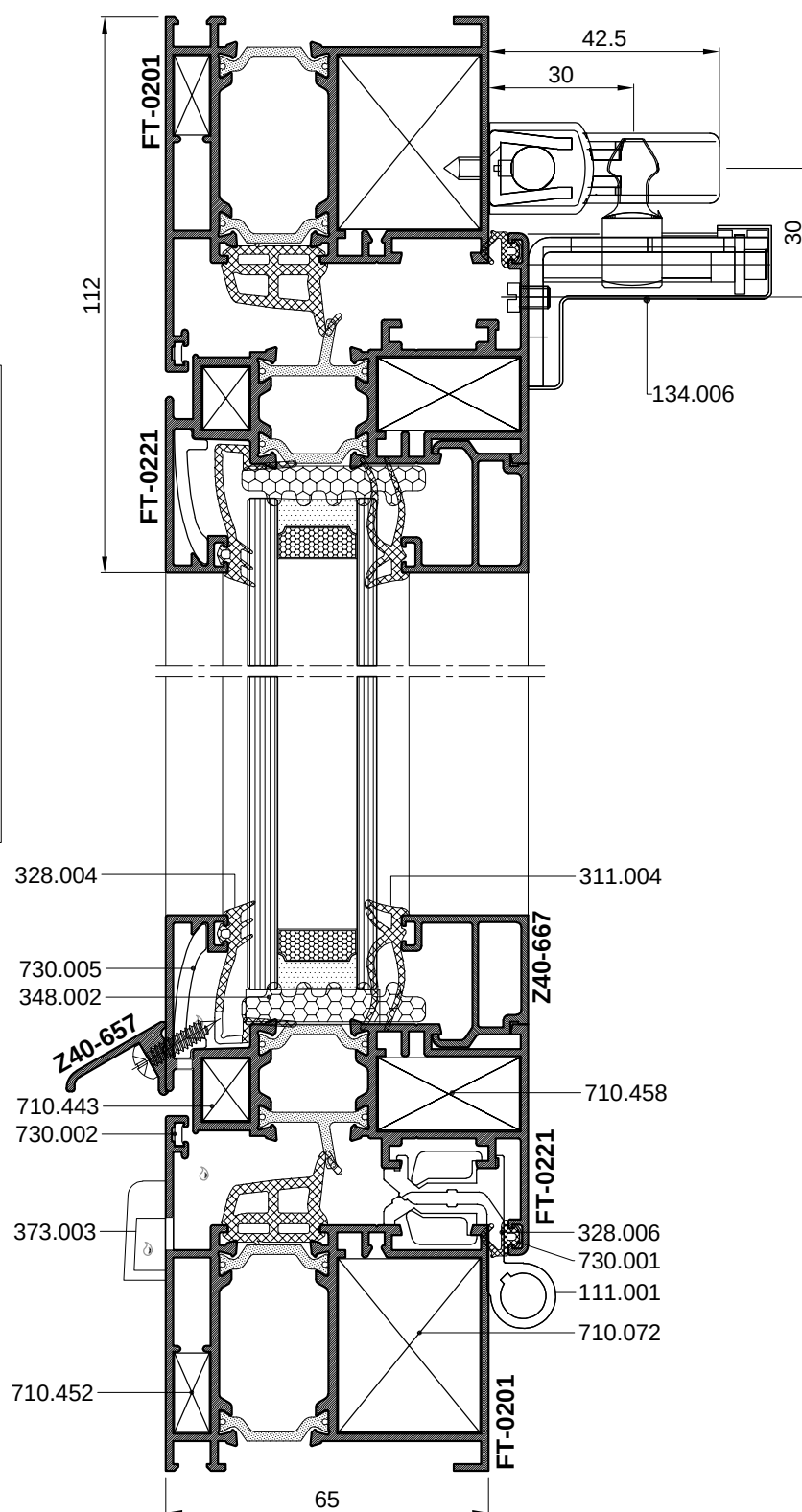
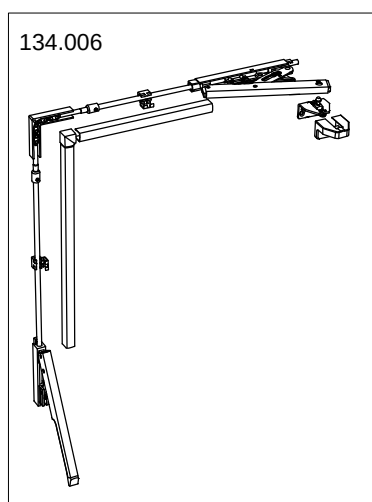


131.002

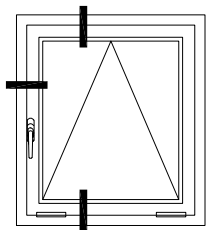




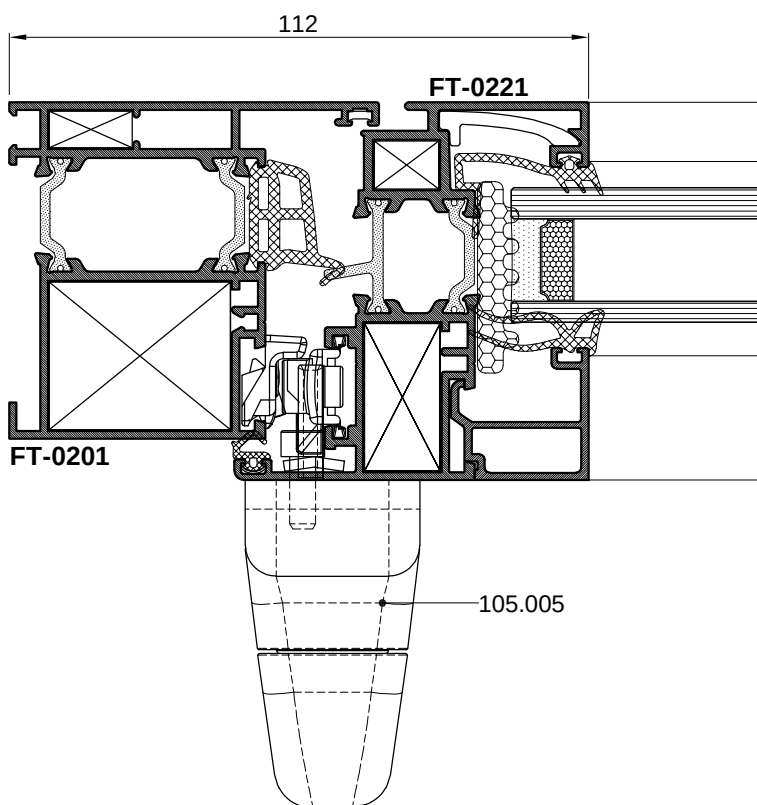
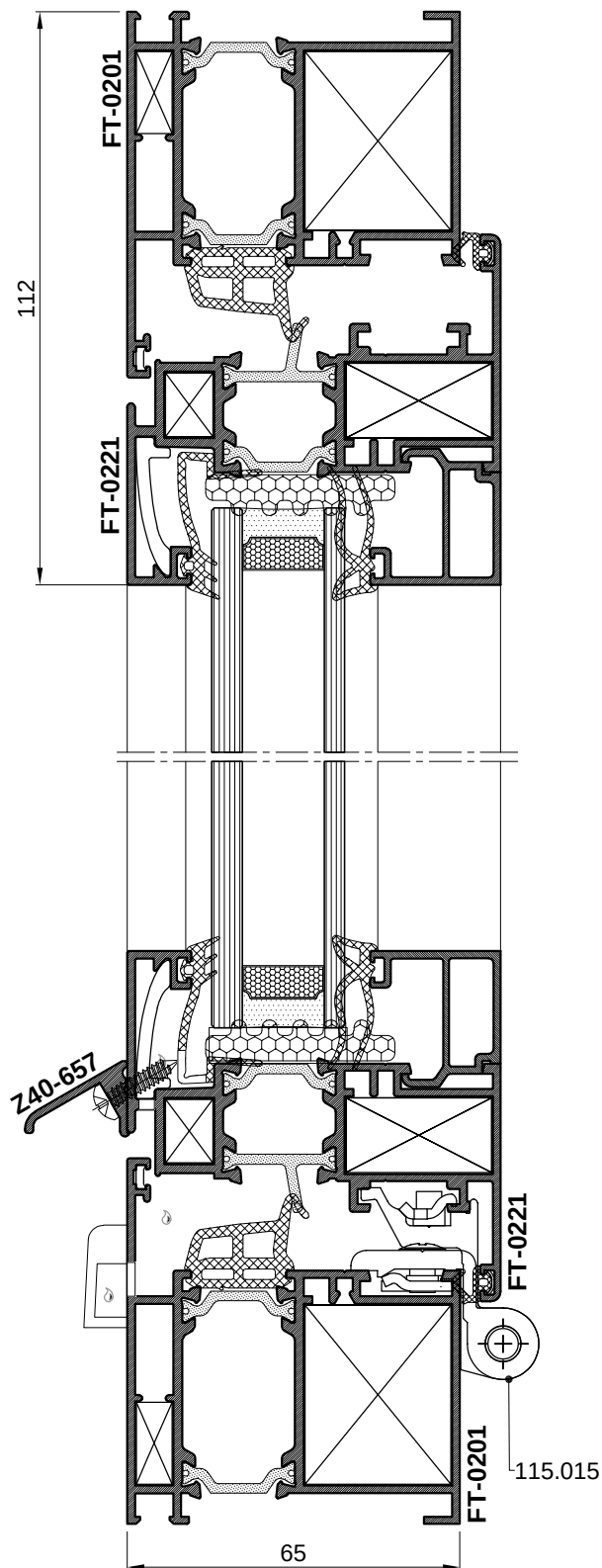
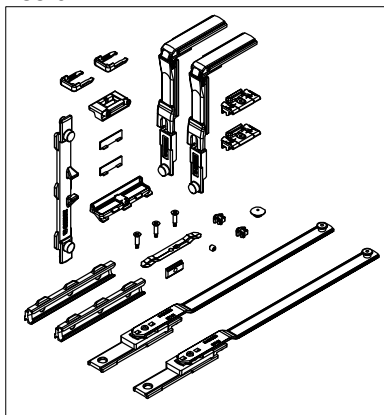
OTKLOPNI PROZOR - VENTUS s ručkom za visinu (134.006)
TILT WINDOW - VENTUS with handle for height (134.006)



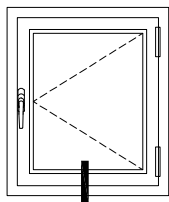
OTKLOPNI PROZOR - VENTUS s ručkom na okomici (135.042)
TILT WINDOW - VENTUS with handle on side (135.042)



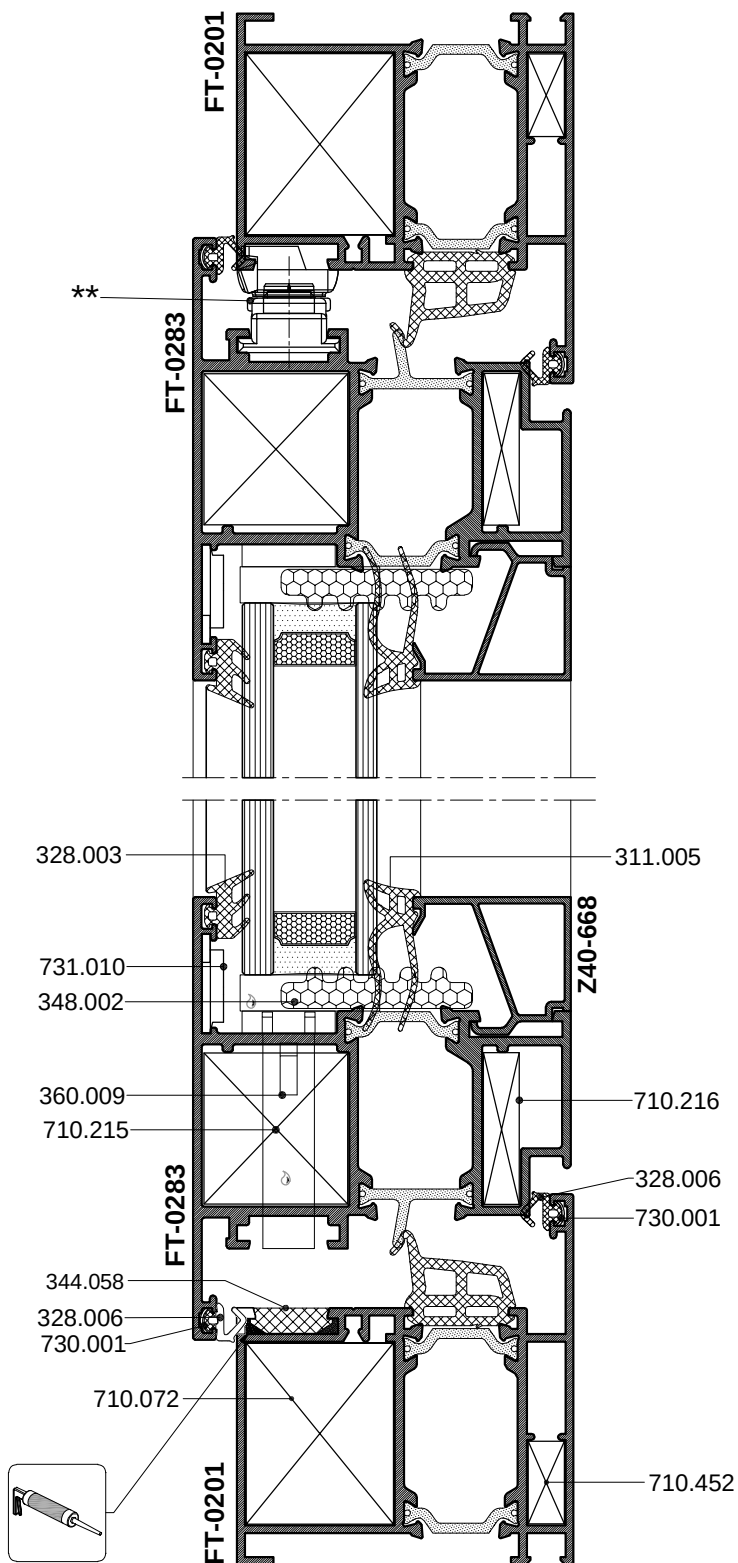
135.042

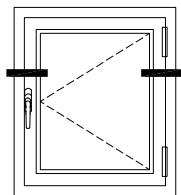


ZAOKRETNI PROZOR - otvaranje vani, zaokretno oko okomite osi
TURN WINDOW - outward opening, turn around the vertical axis

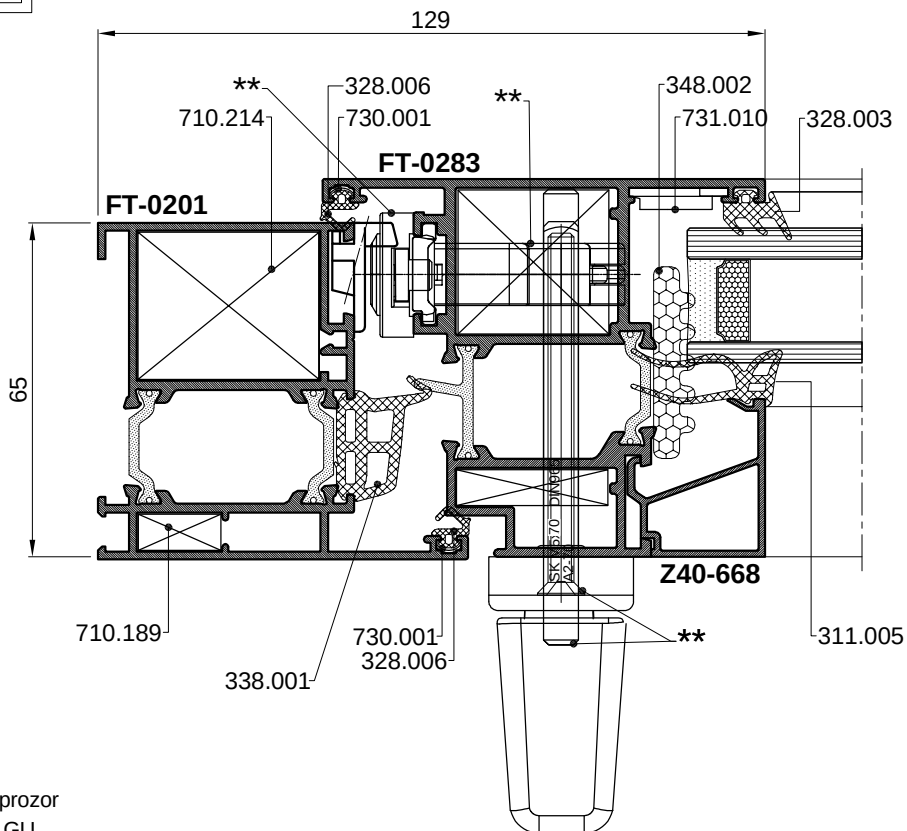


** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outward opening) - GU

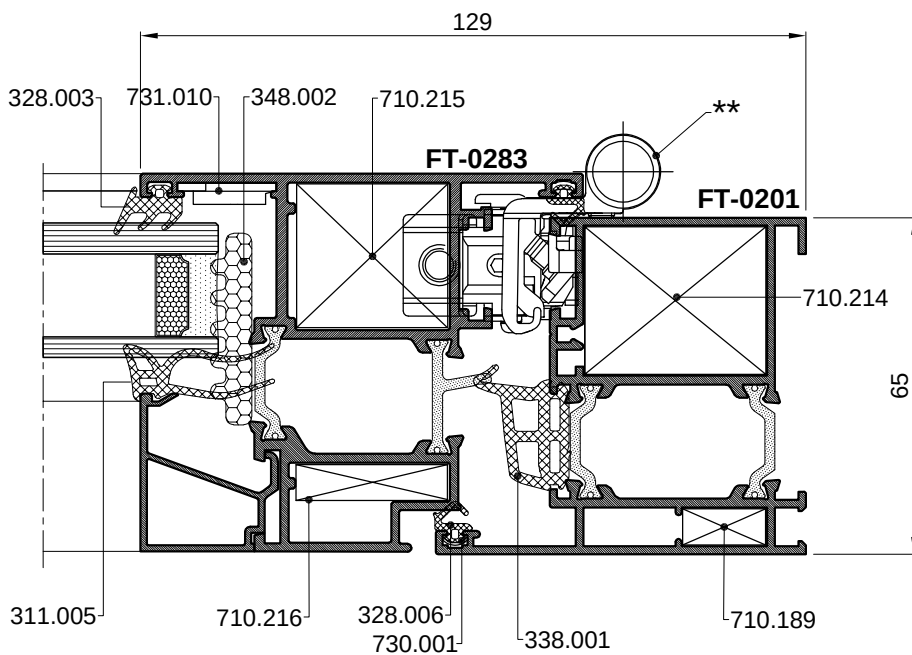


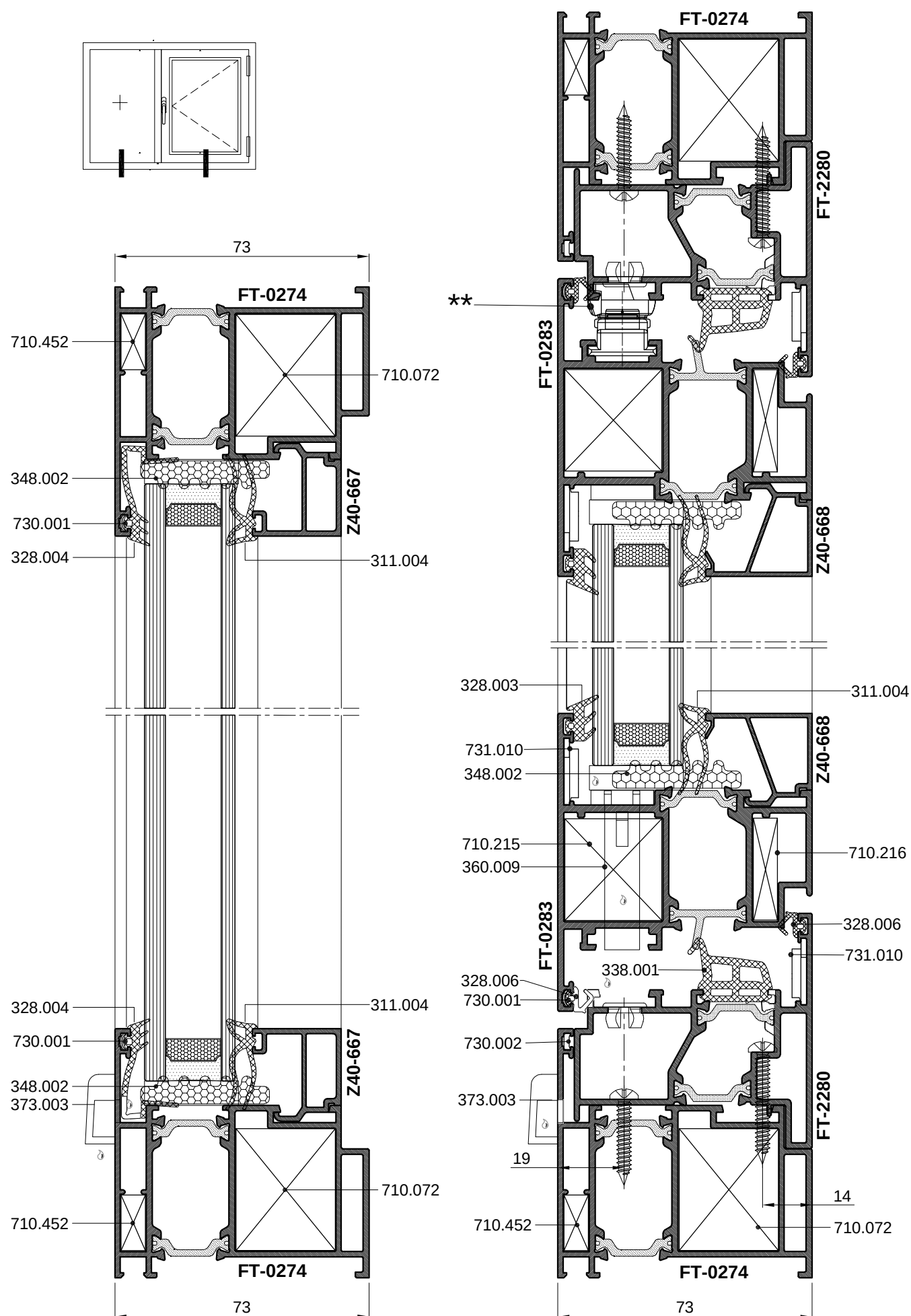


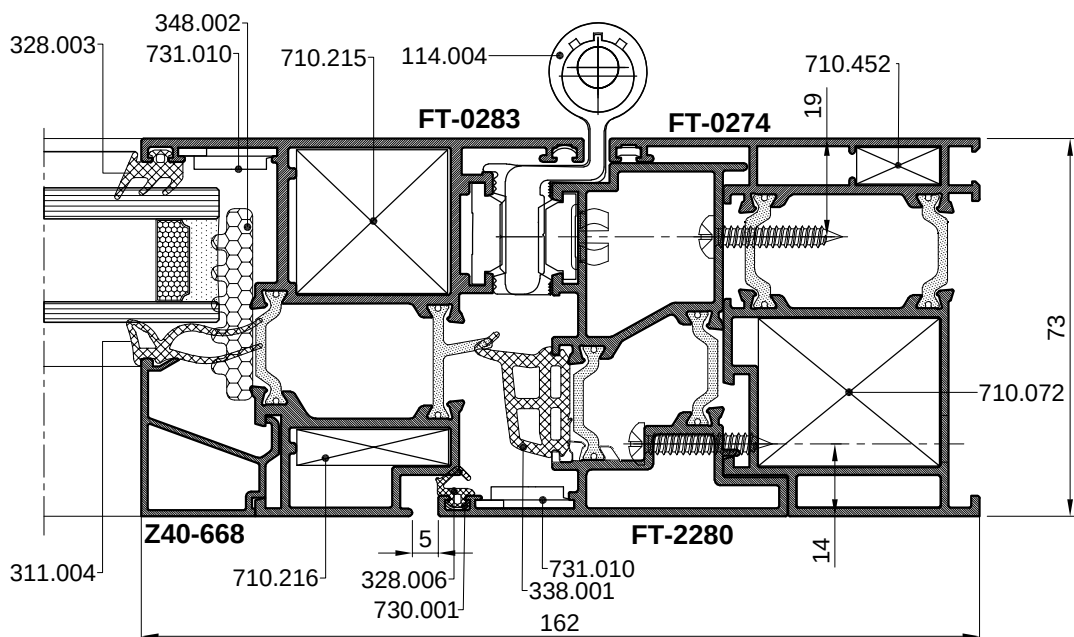
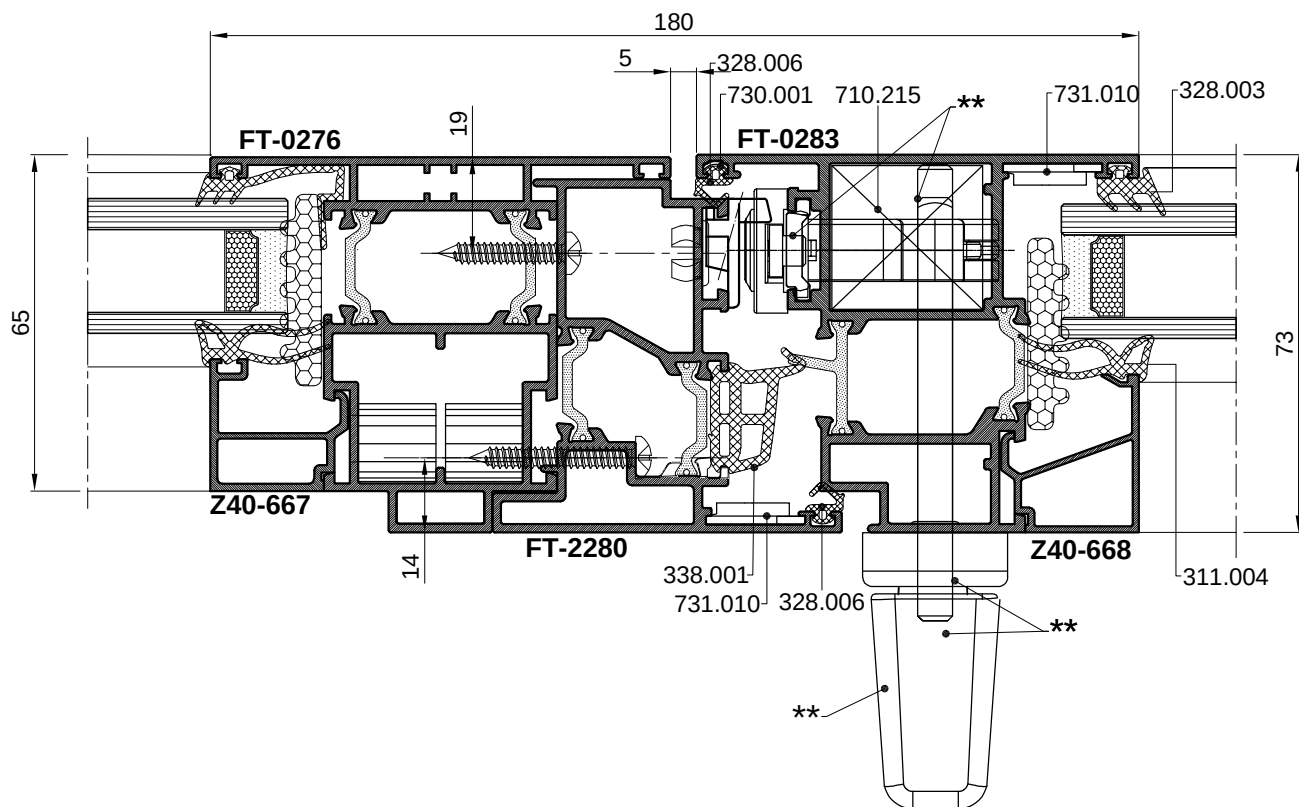
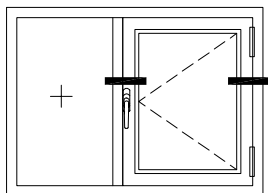
ZAOKRETNI PROZOR - otvaranje vani, zaokretno oko okomite osi
TURN WINDOW - outward opening, turn around the vertical axis

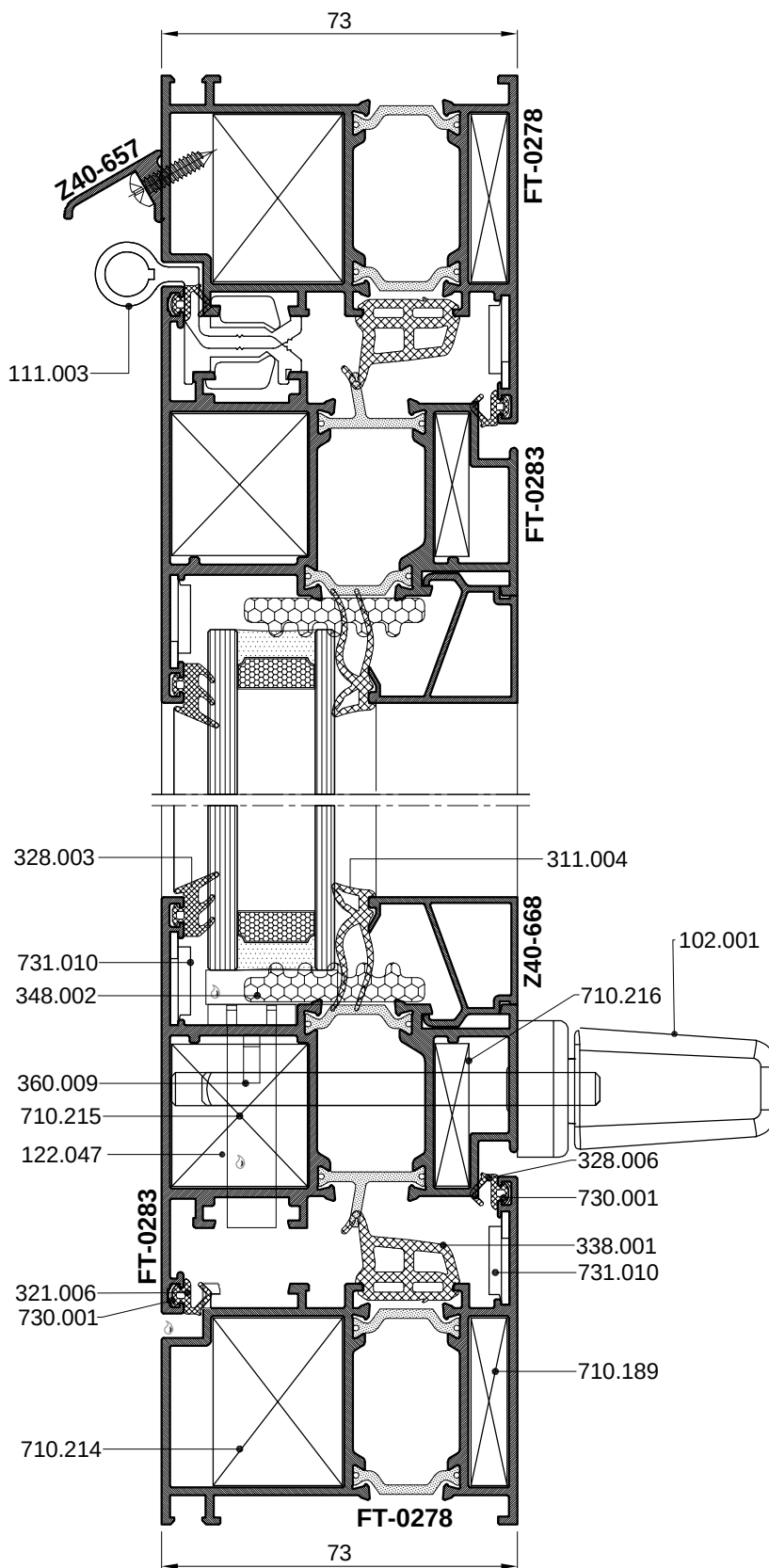
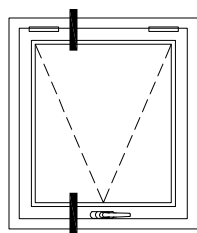


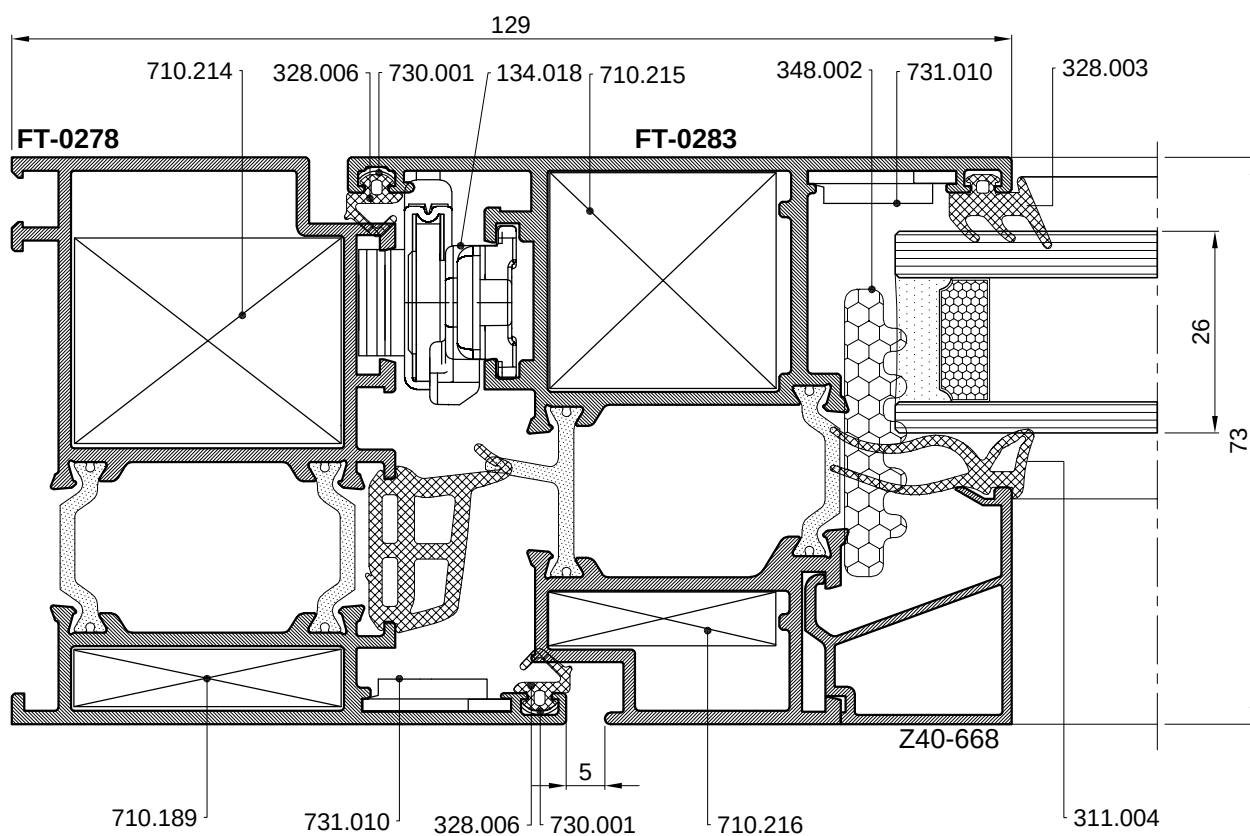
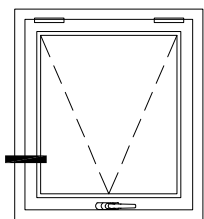
** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outwards opening) - GU

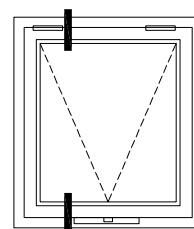
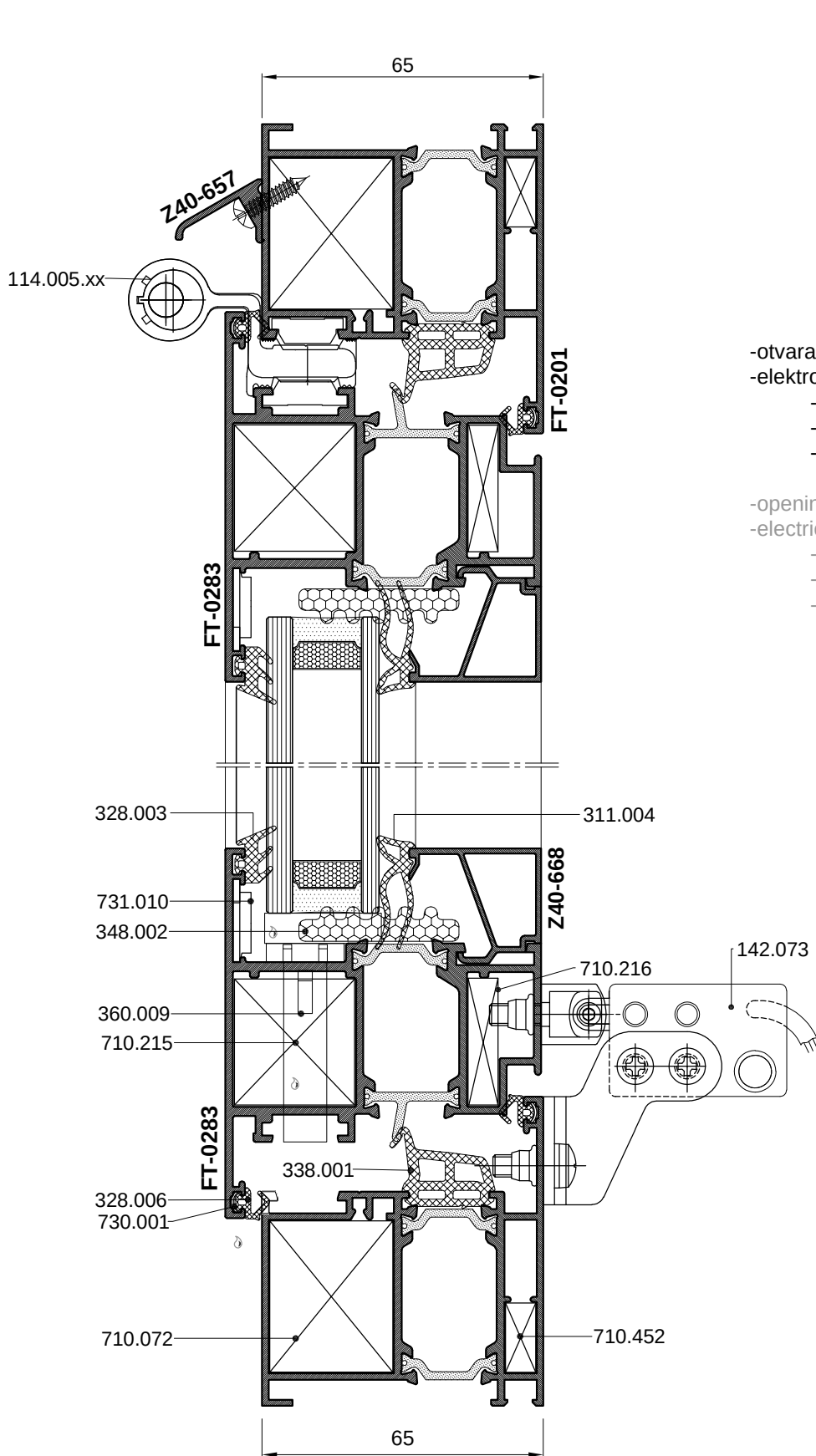






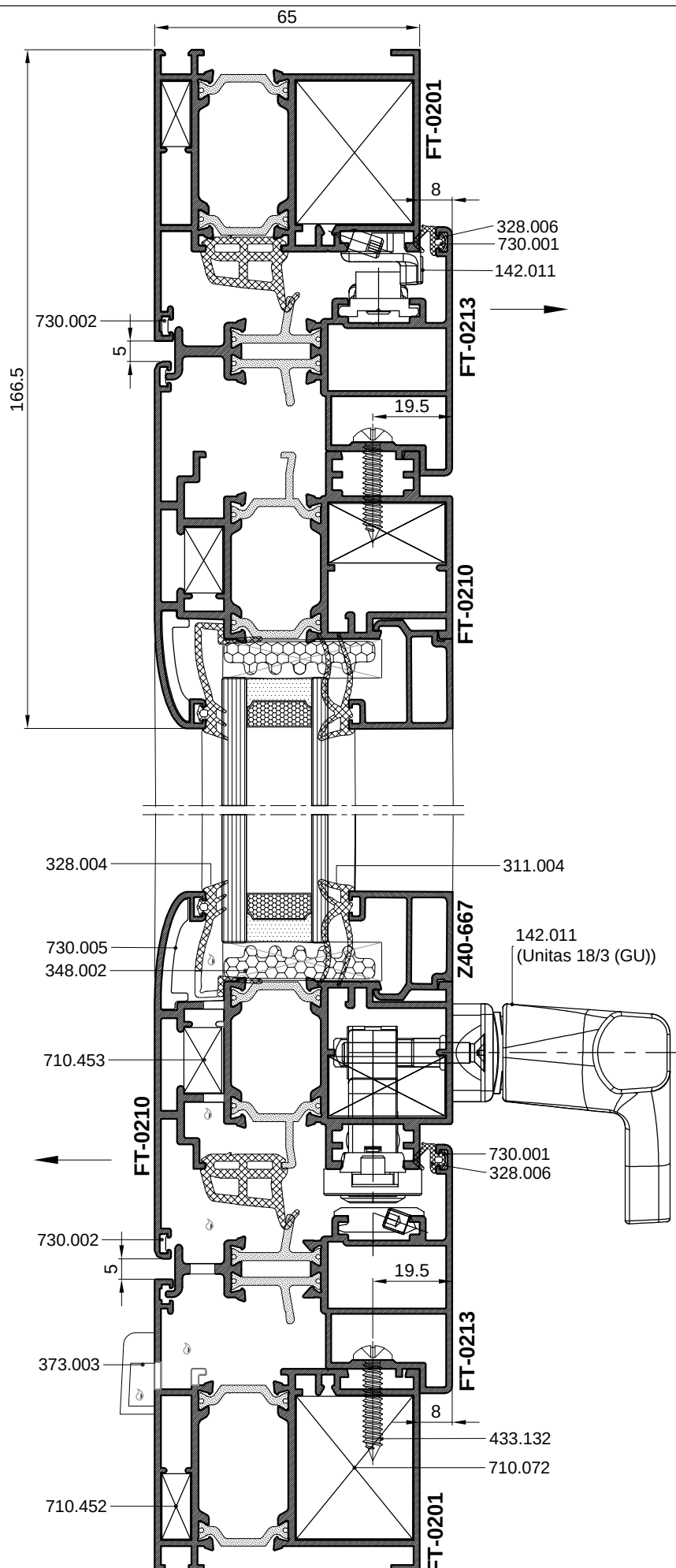
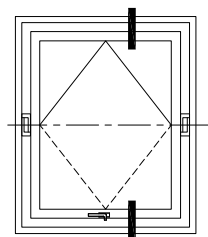


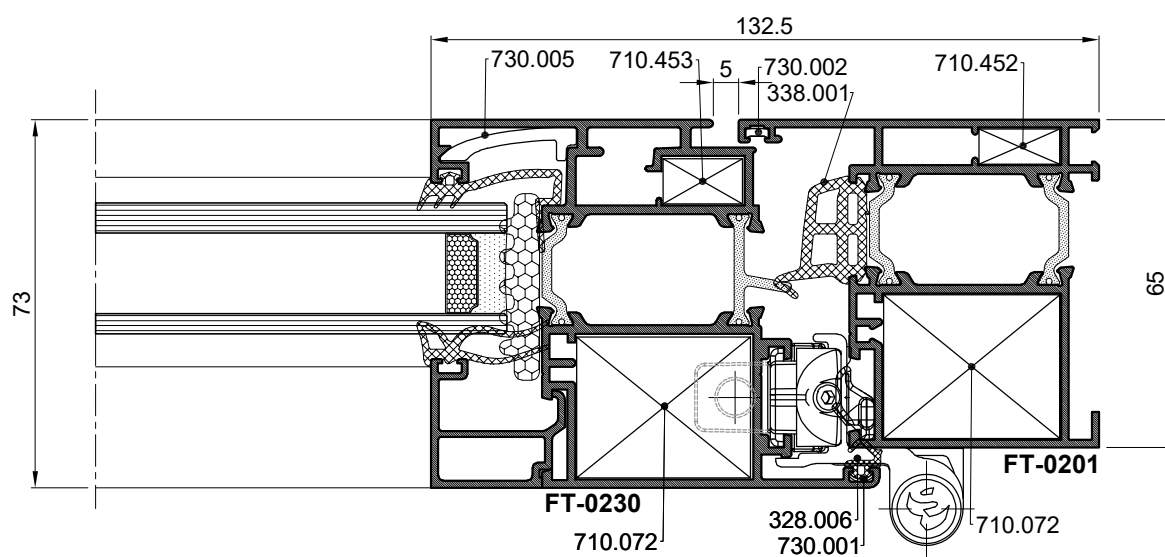
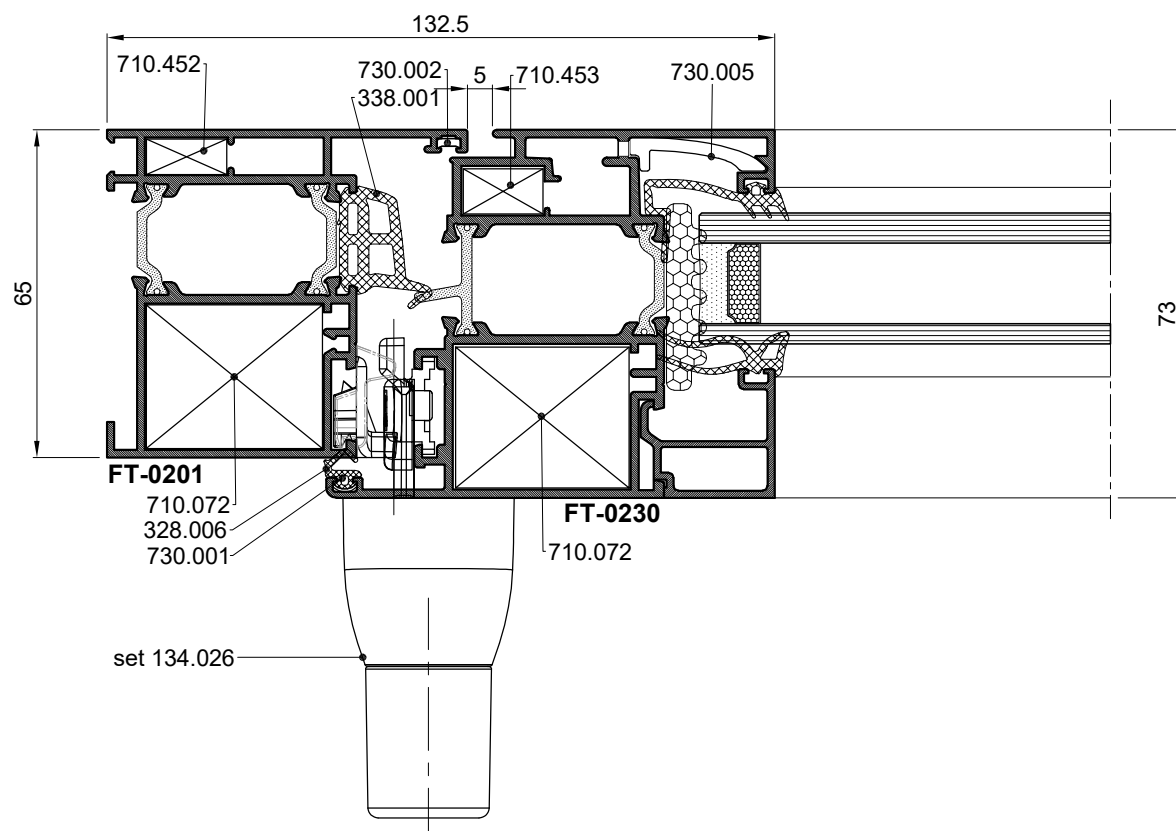
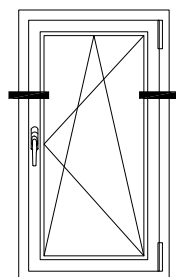


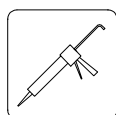
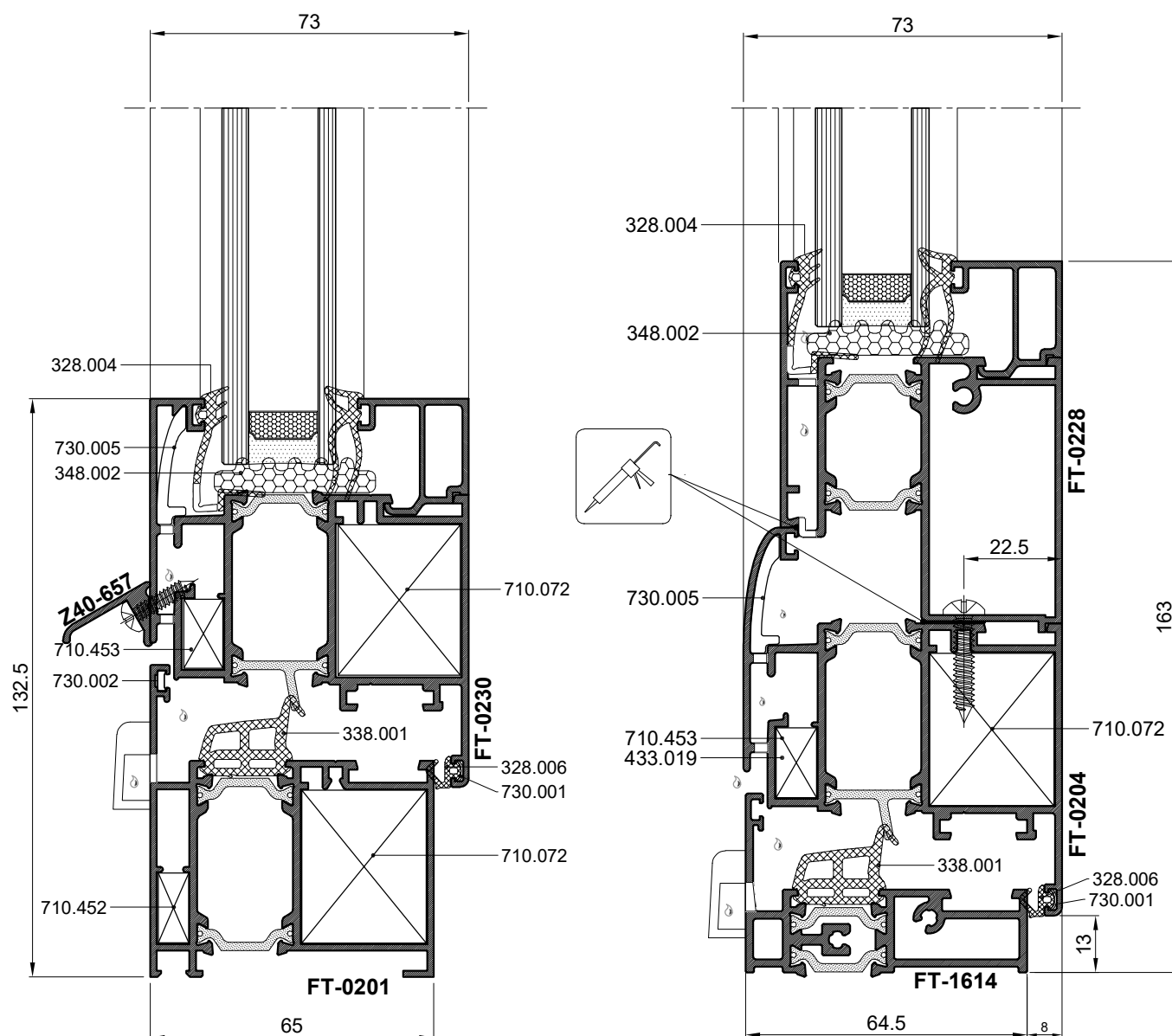
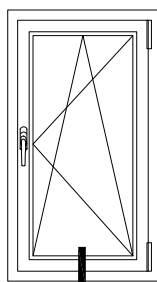


- otvaranje oko gornje ose
- elektromotorni pogon
 - 142.073 - hod motora 200 mm
 - 142.074 - hod motora 300 mm
 - 142.094 - hod motora 400 mm
- opening around the top axis
- electric motor drive
 - 142.073 - stroke length 200 mm
 - 142.074 - stroke length 300 mm
 - 142.094 - stroke length 400 mm

PROZOR - OTVARANJE OKO
SREDNJE VODORAVNE OSE
WINDOW - HORIZONTAL
PIVOT OPENING

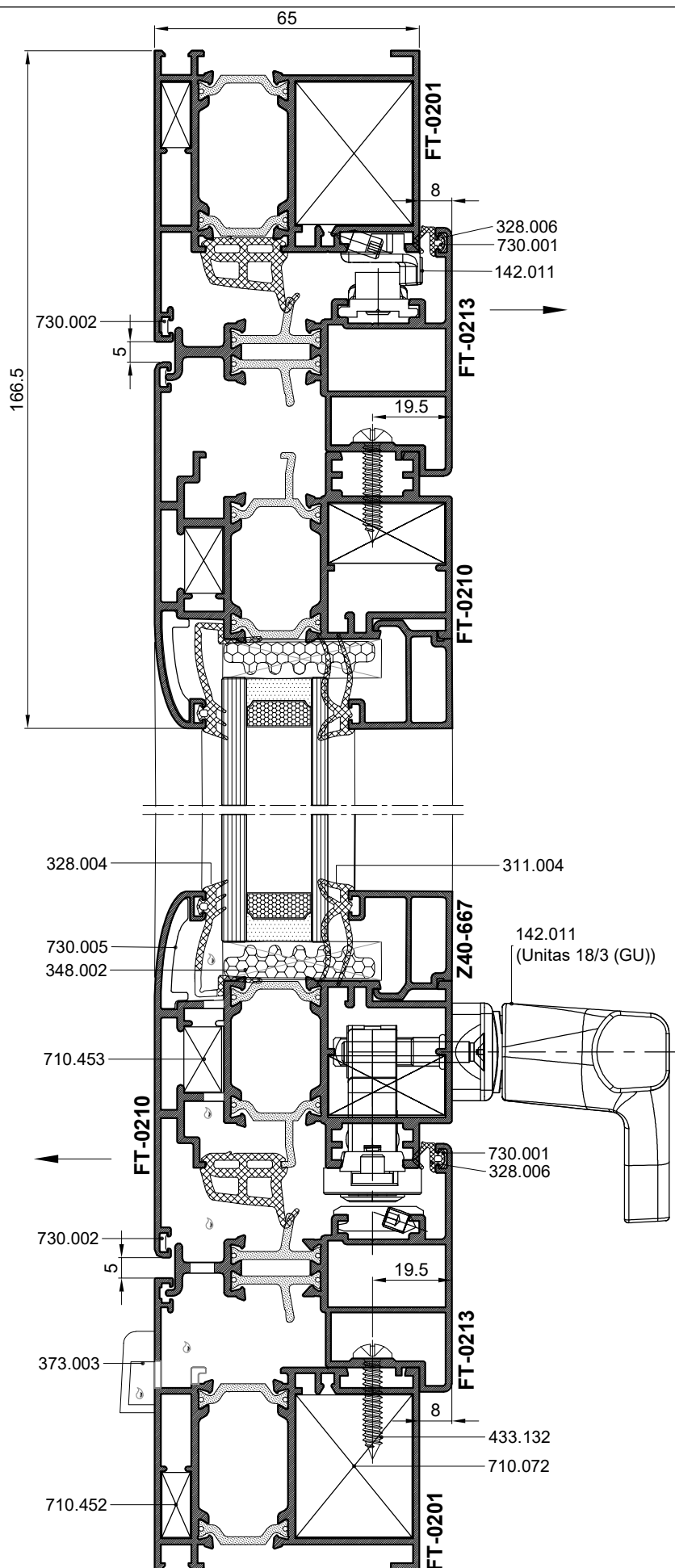
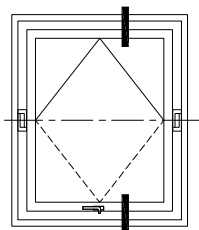


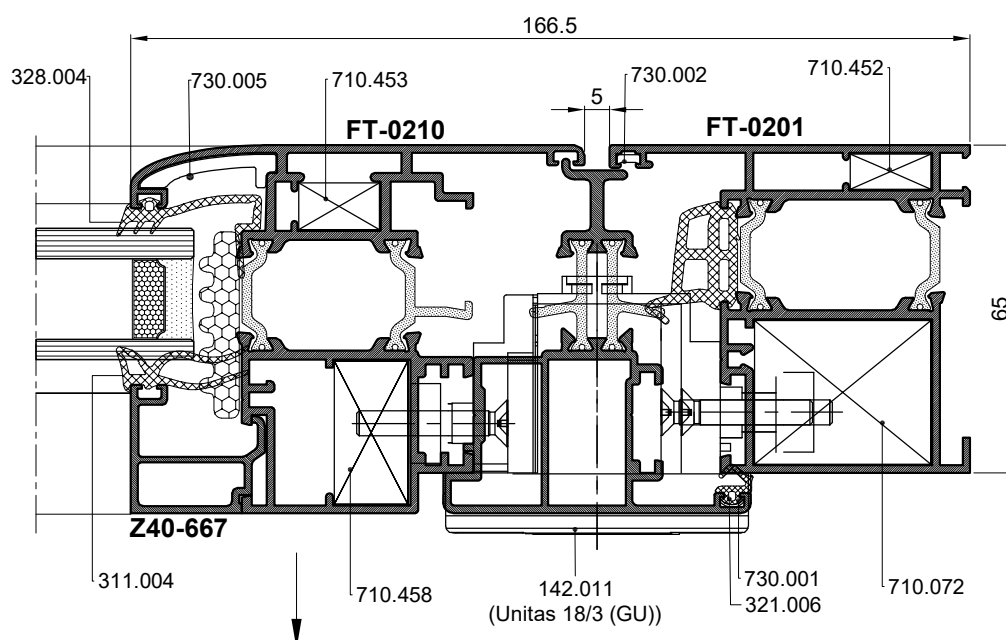
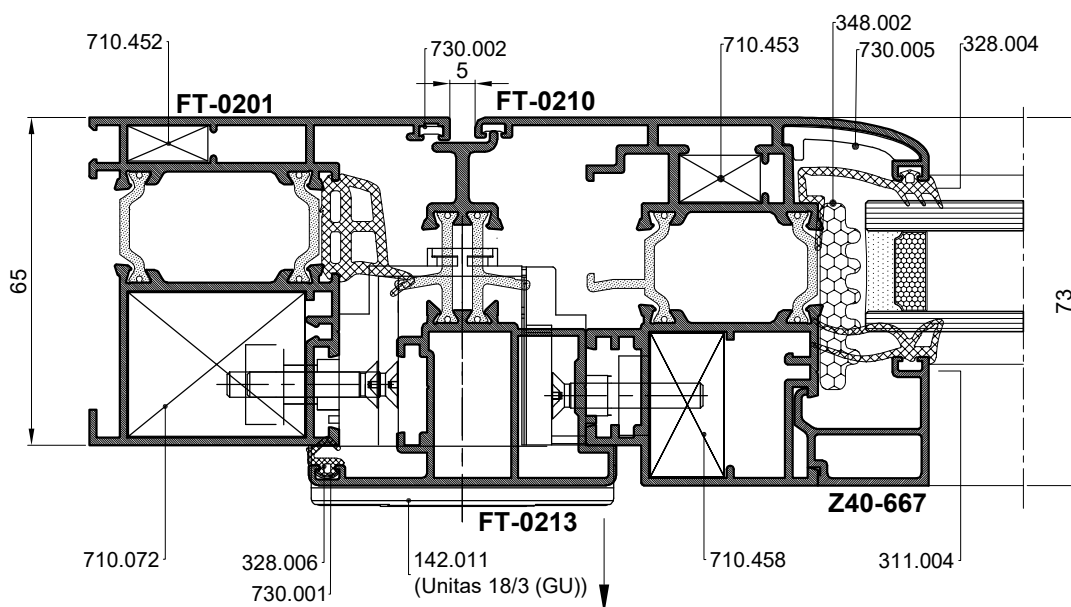
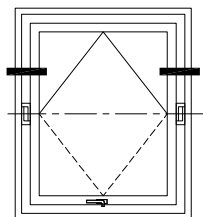


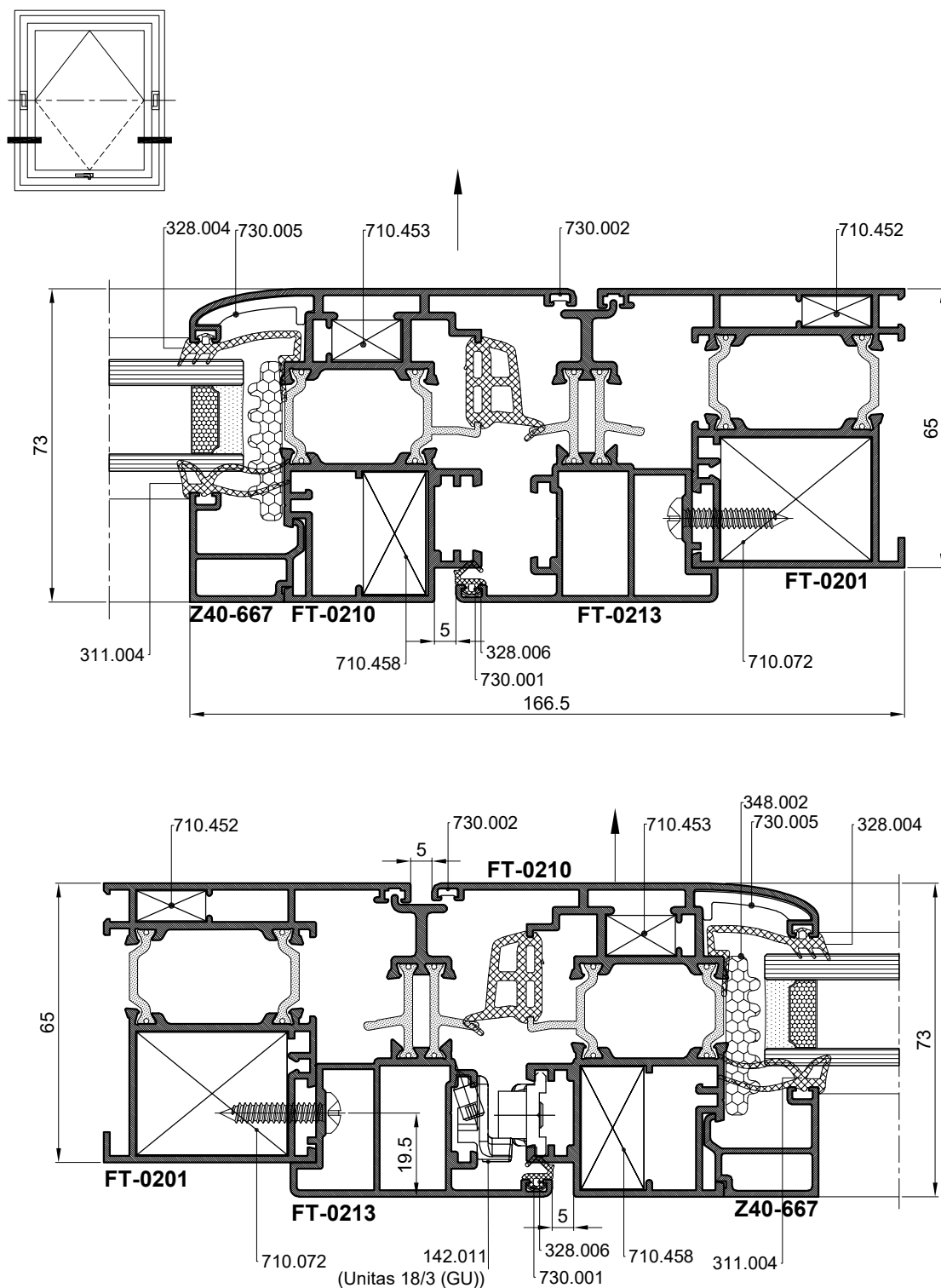


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

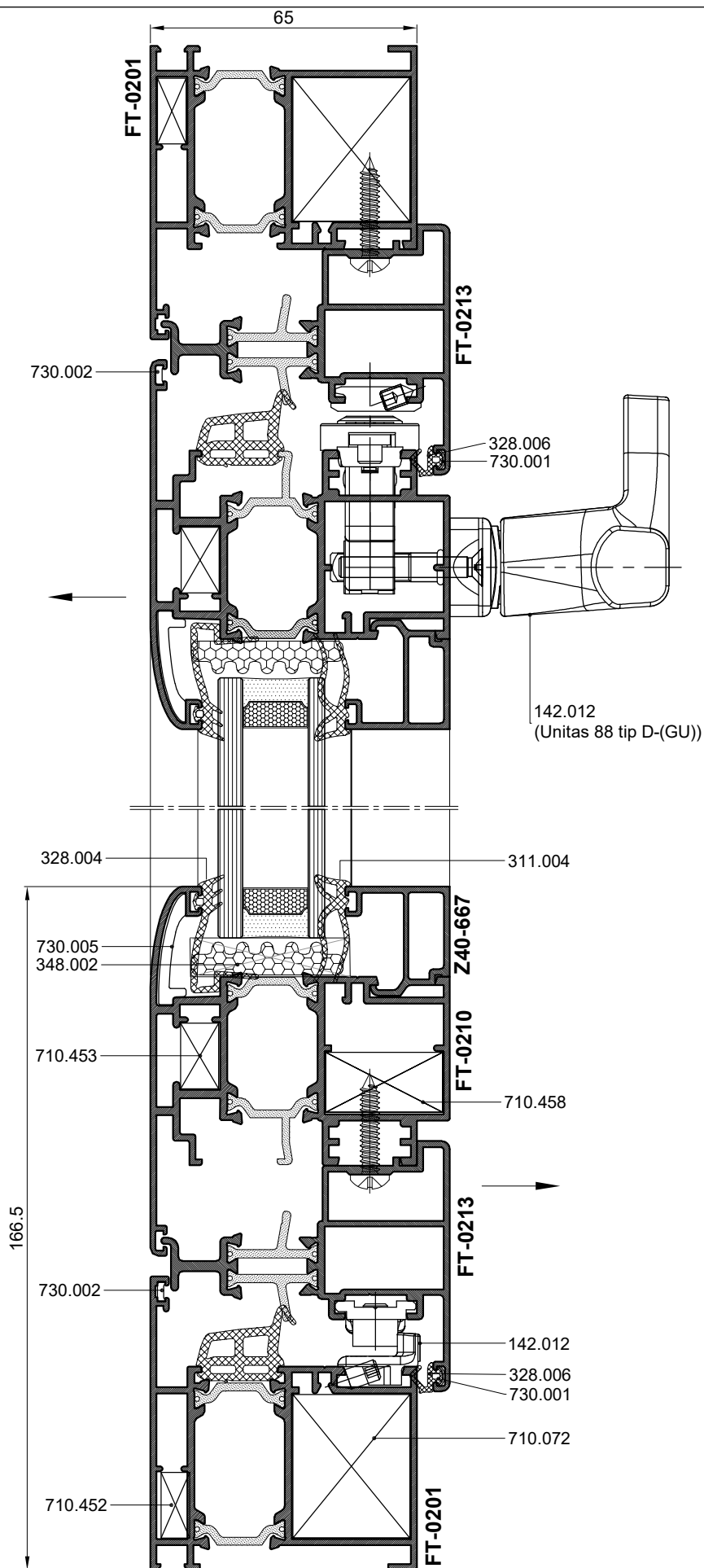
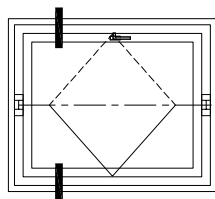
PROZOR - OTVARANJE OKO
SREDNJE VODORAVNE OSE
WINDOW - HORIZONTAL
PIVOT OPENING

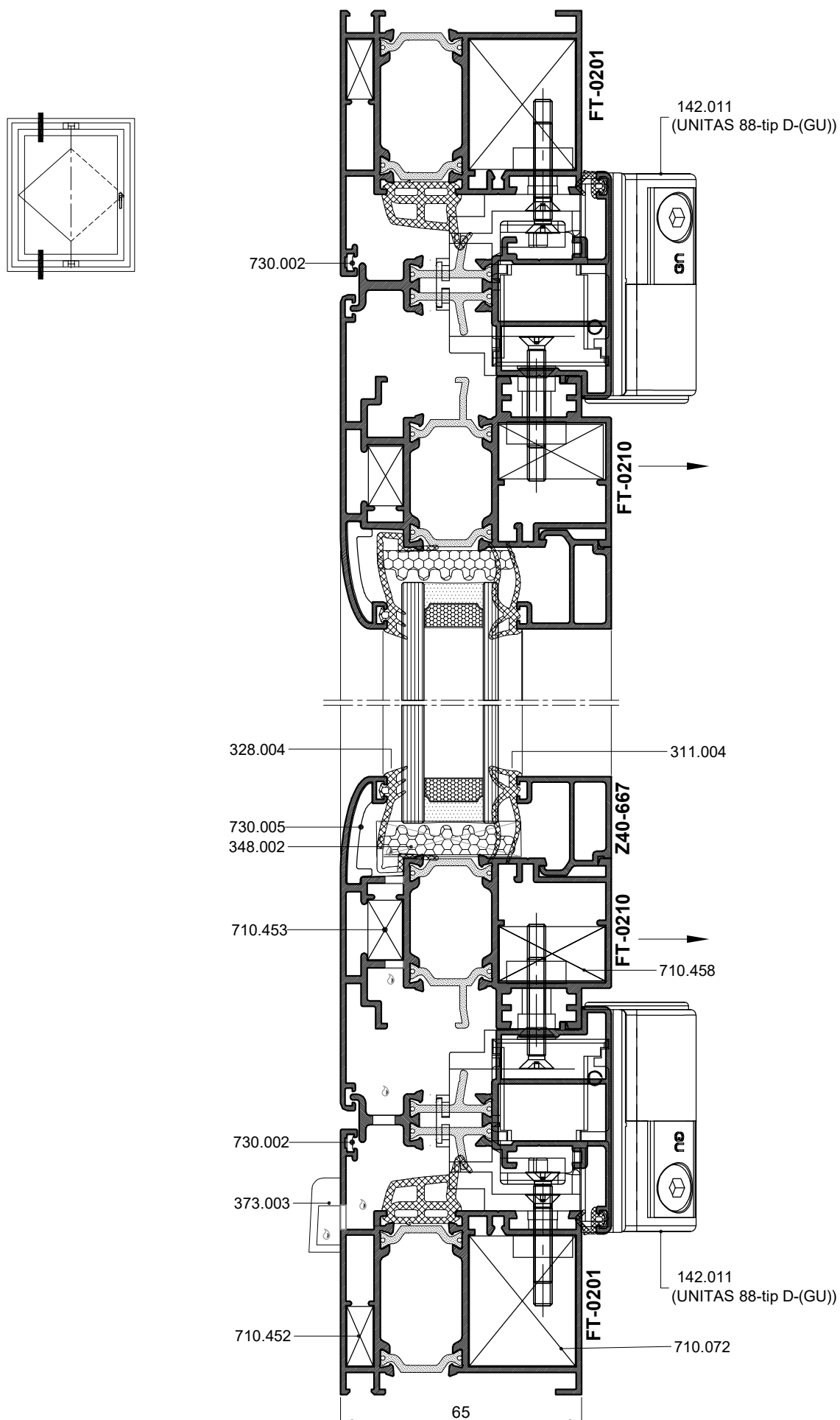


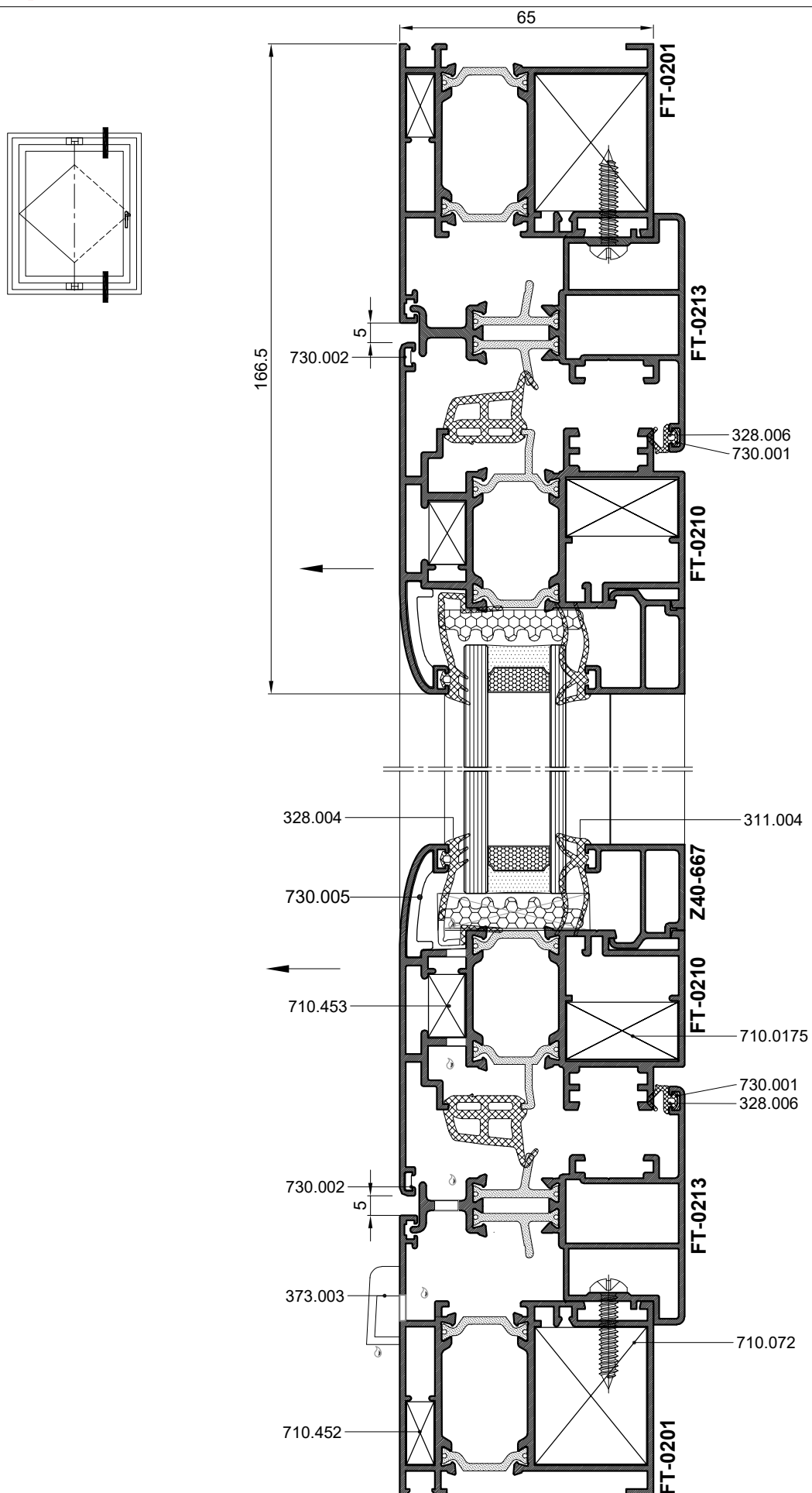


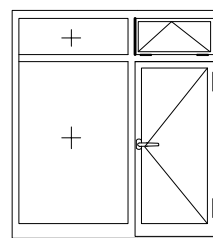
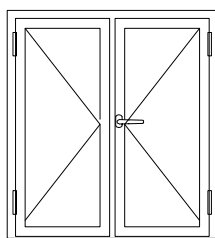
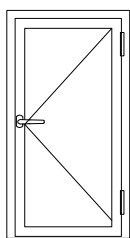


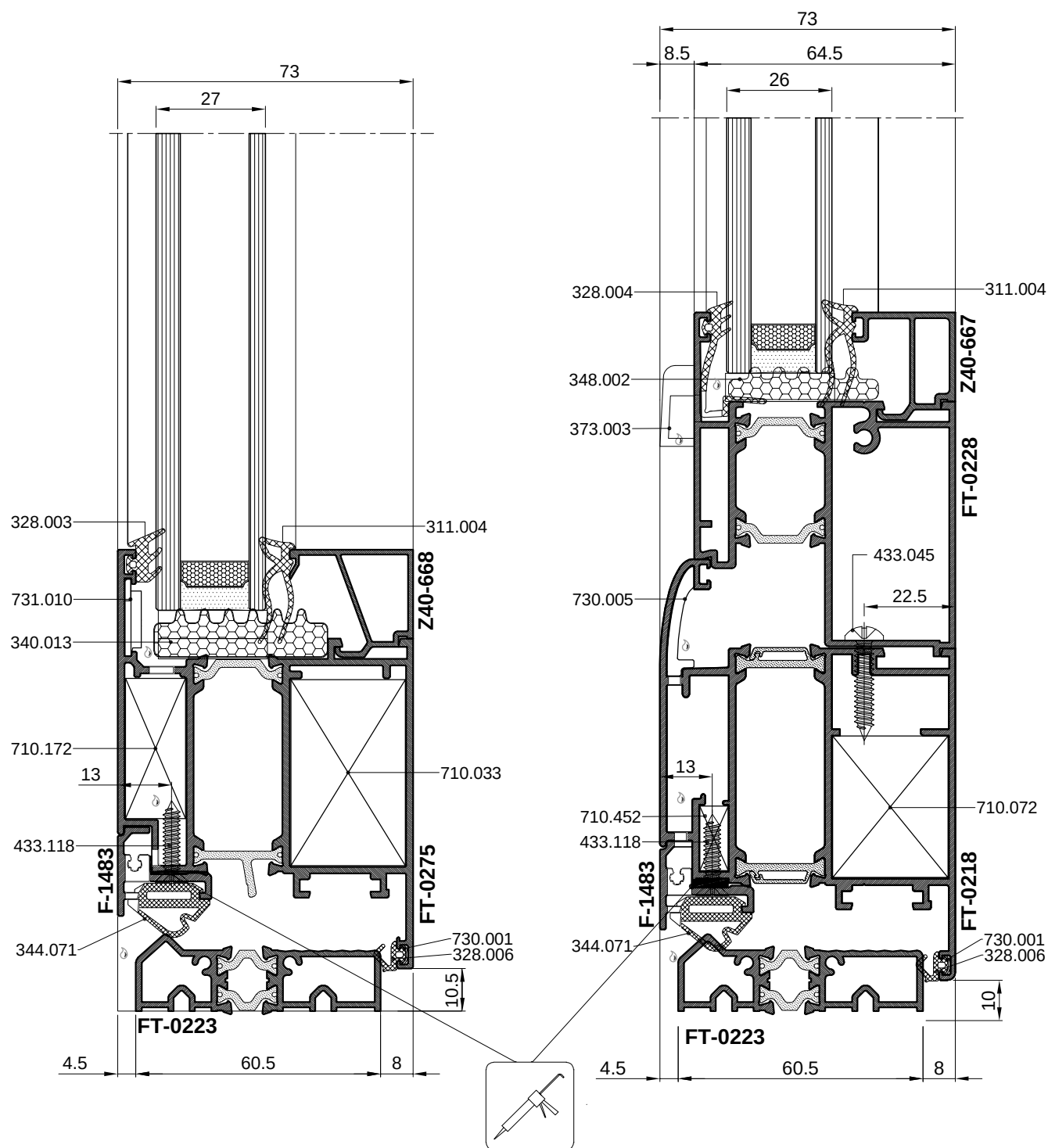
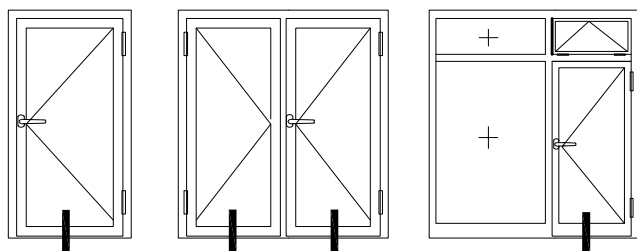
PROZOR - OTVARANJE OKO SREDNJE OKOMITE OSE
WINDOW VERTICAL PIVOT OPENING

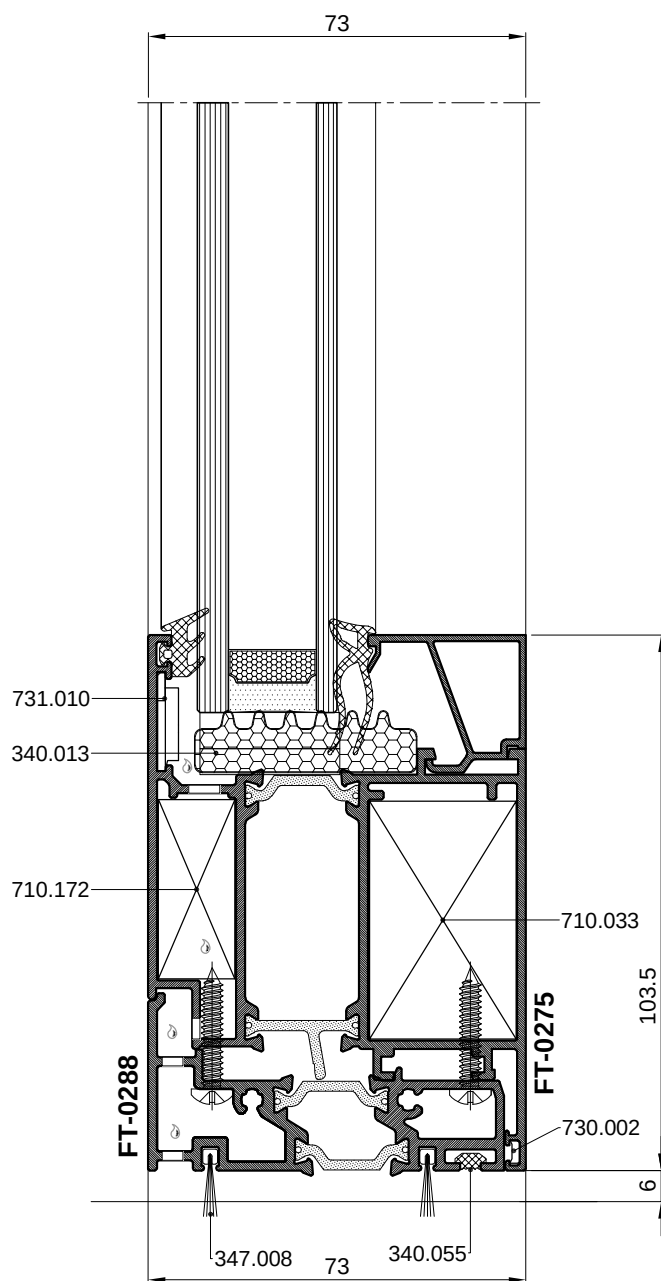
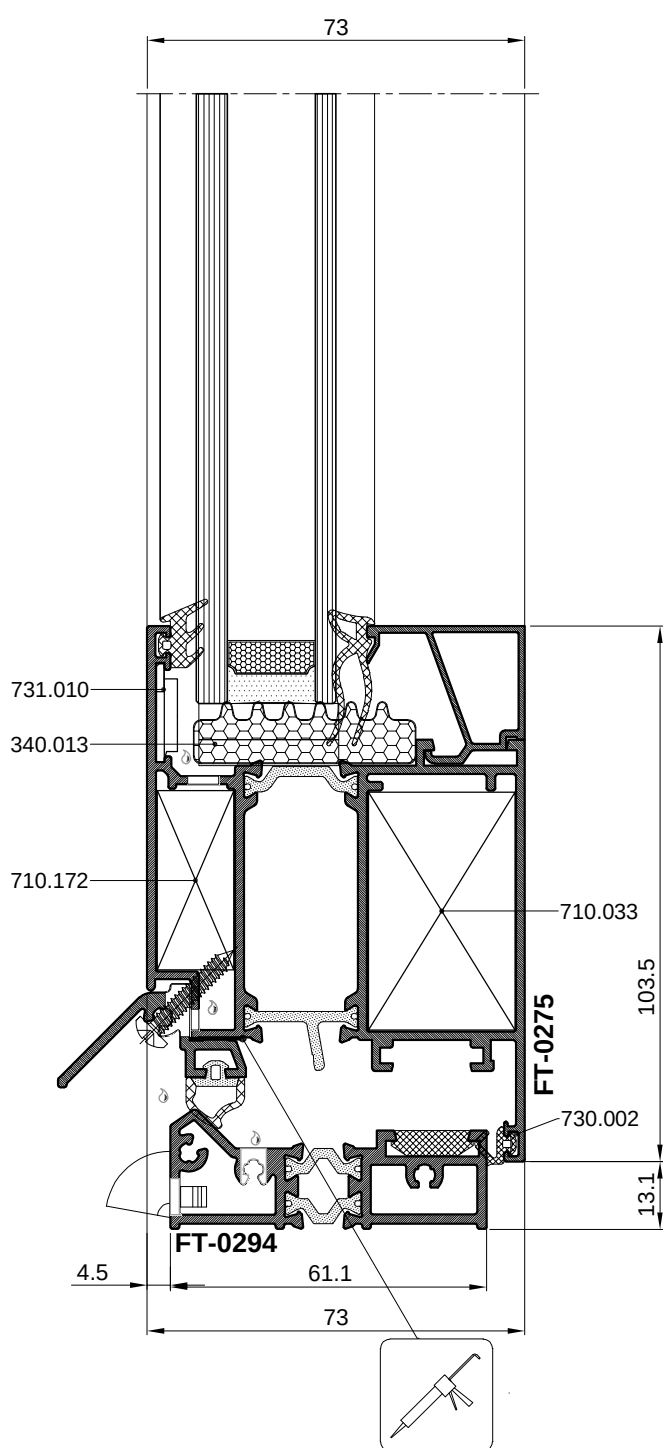
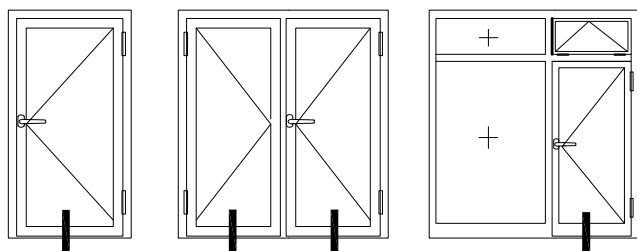




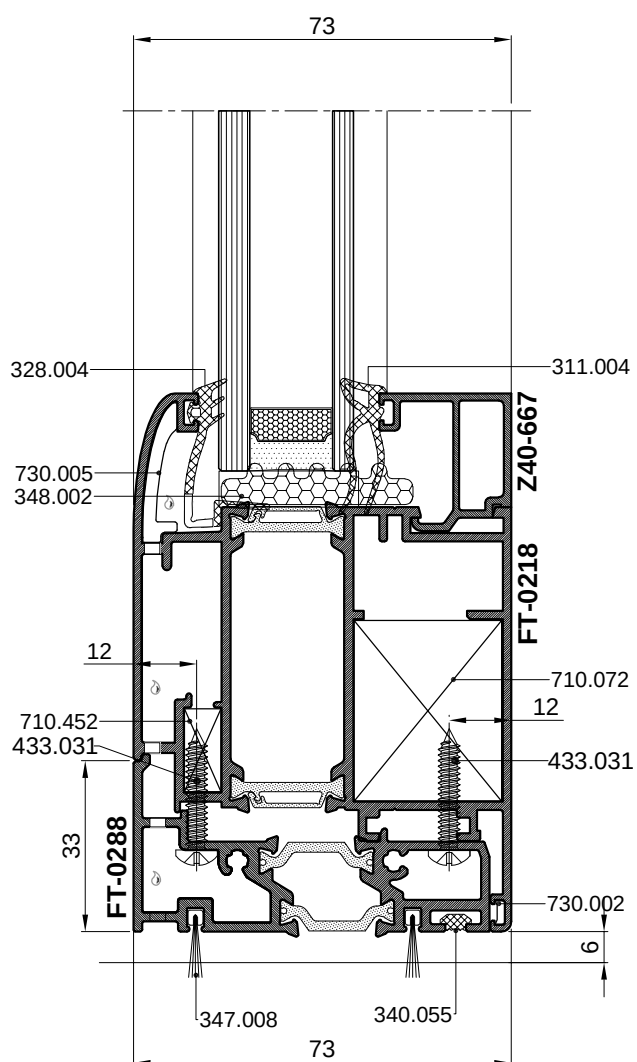
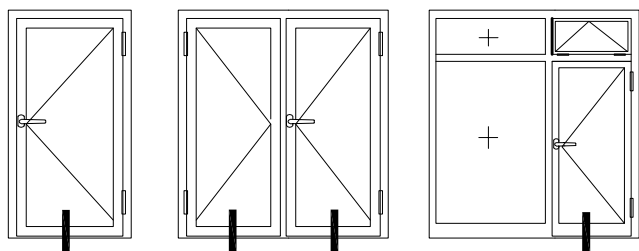


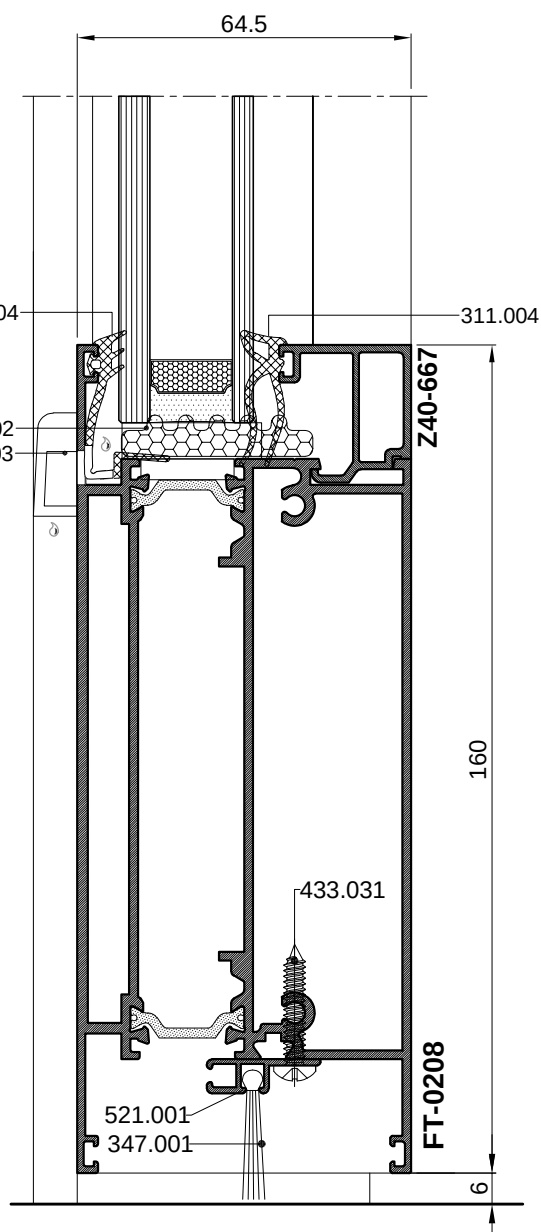
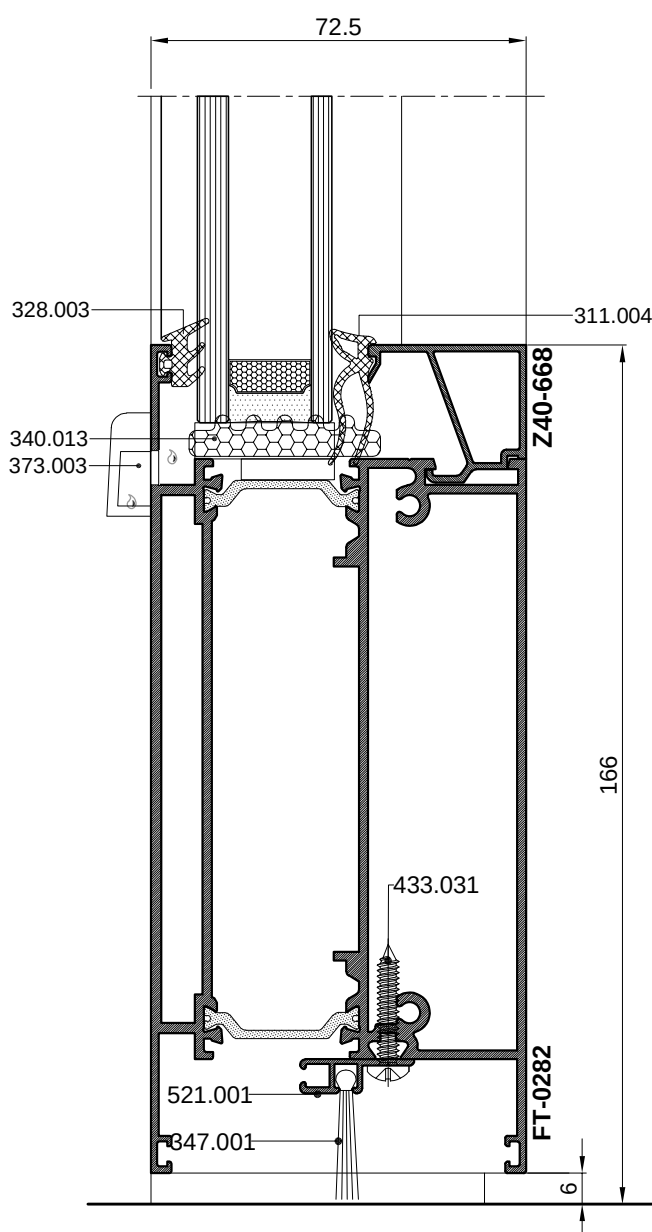
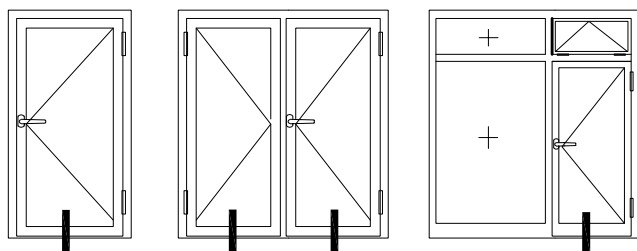


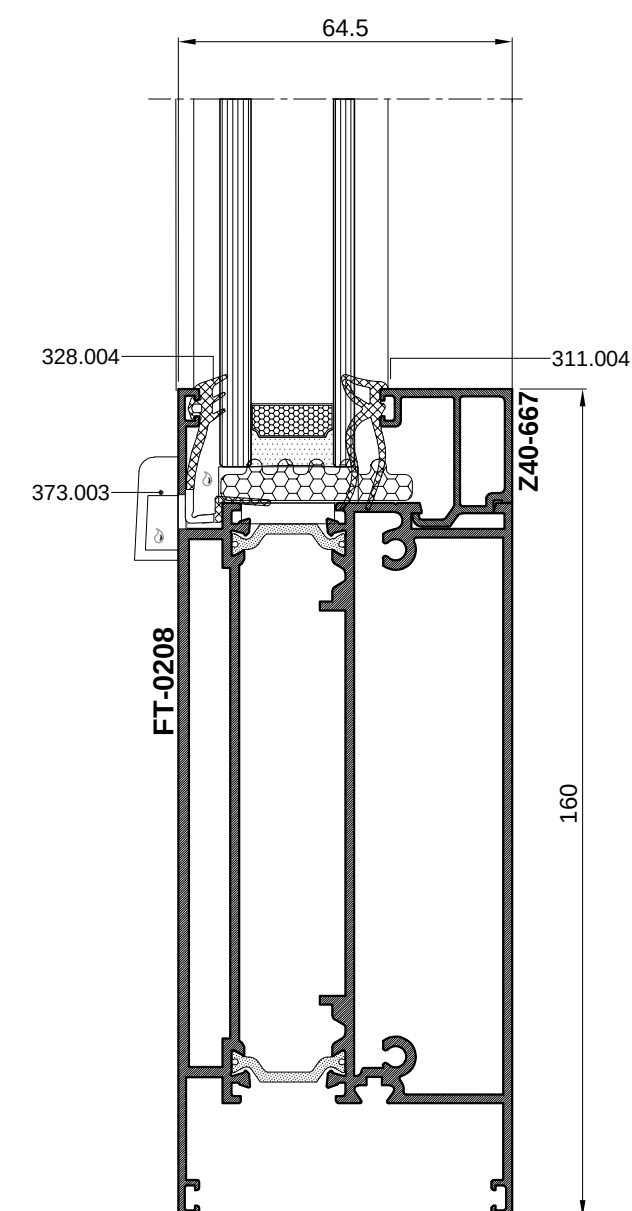
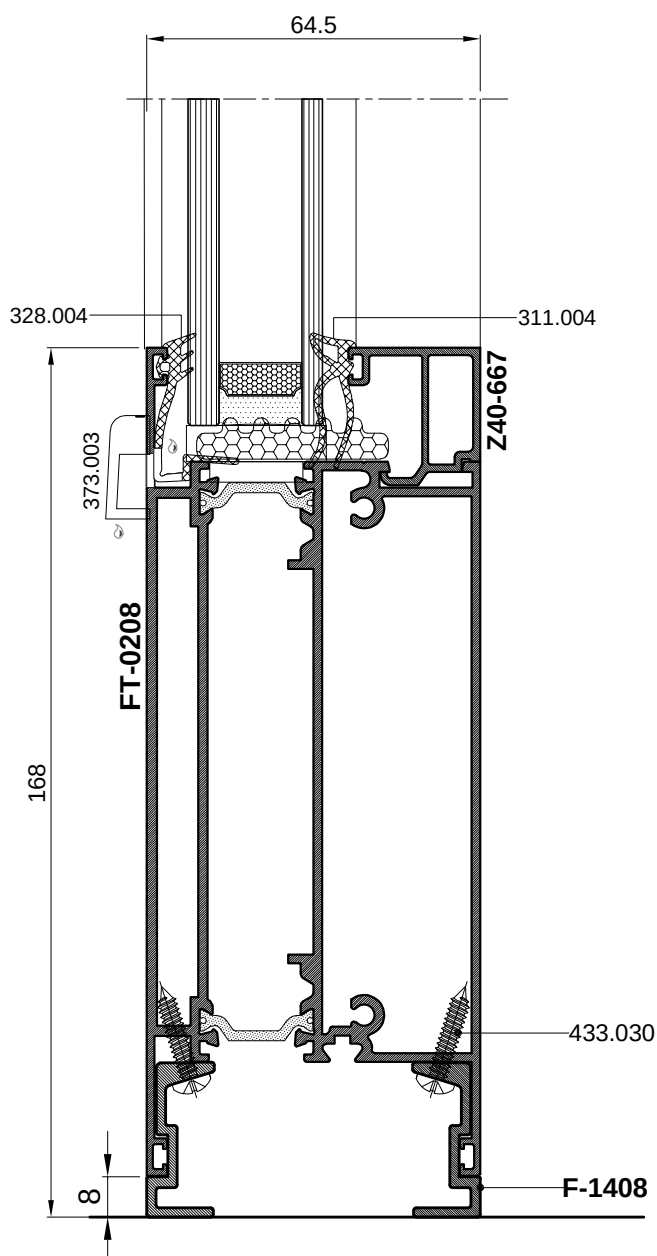
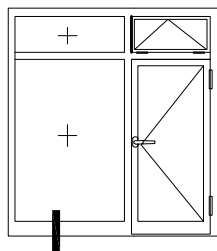


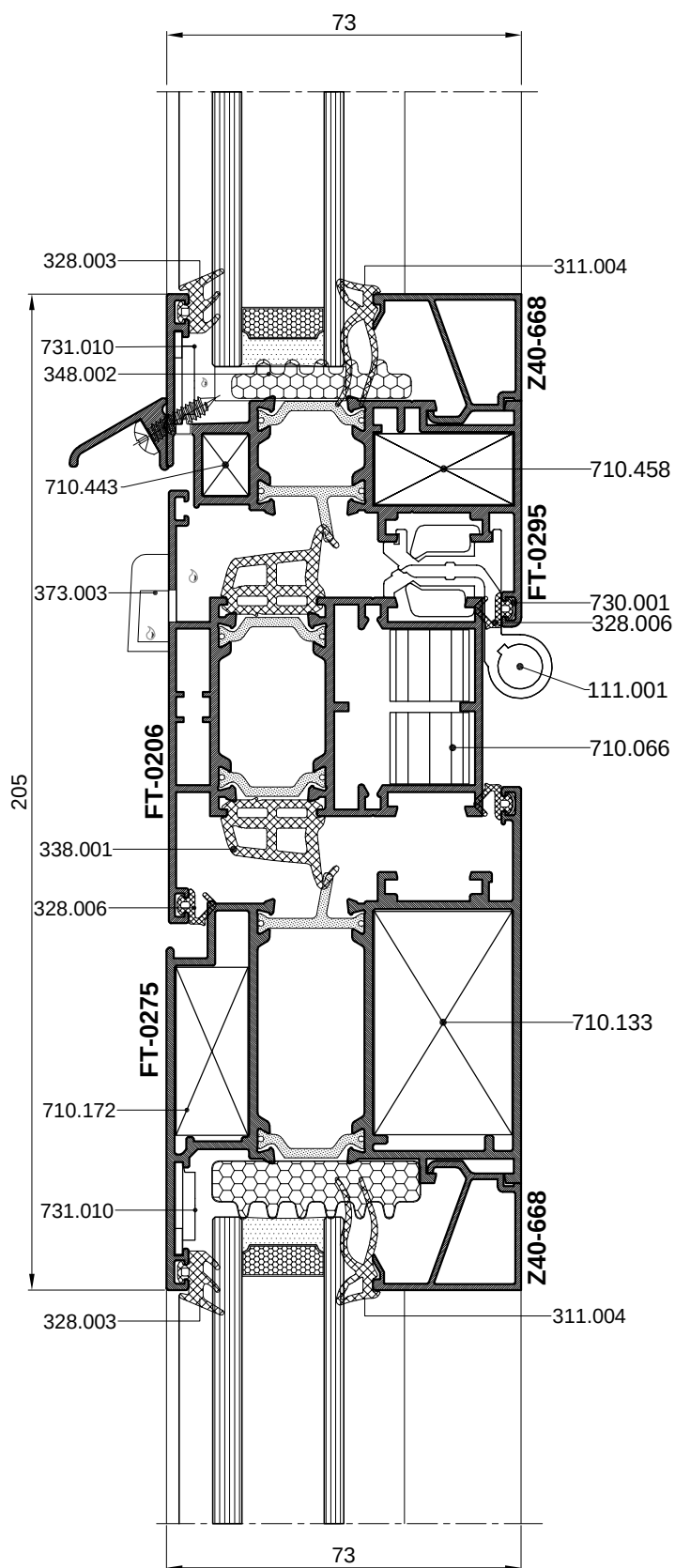
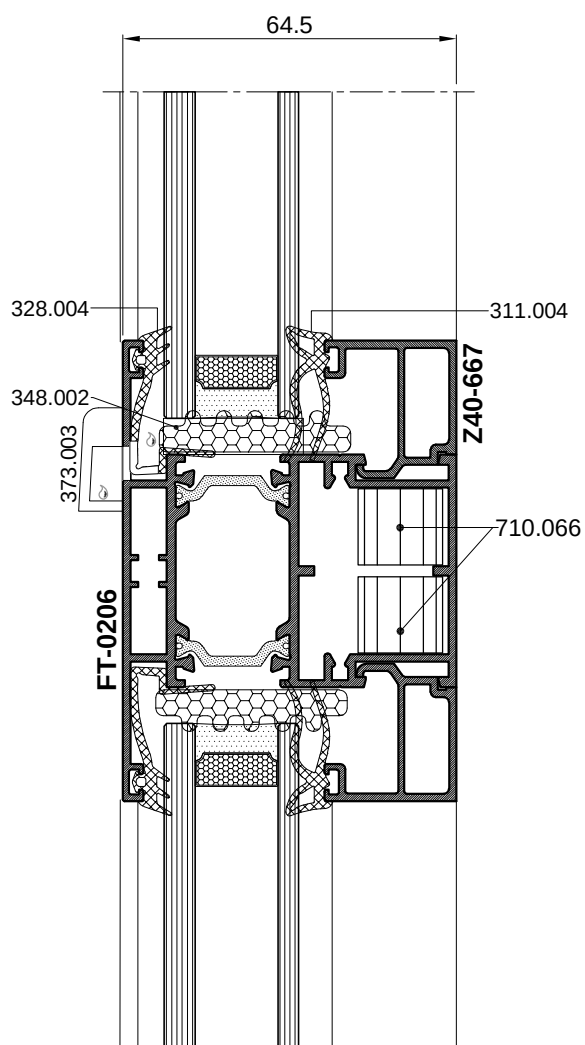
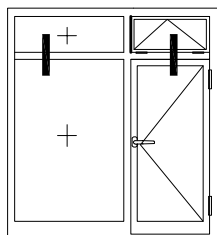


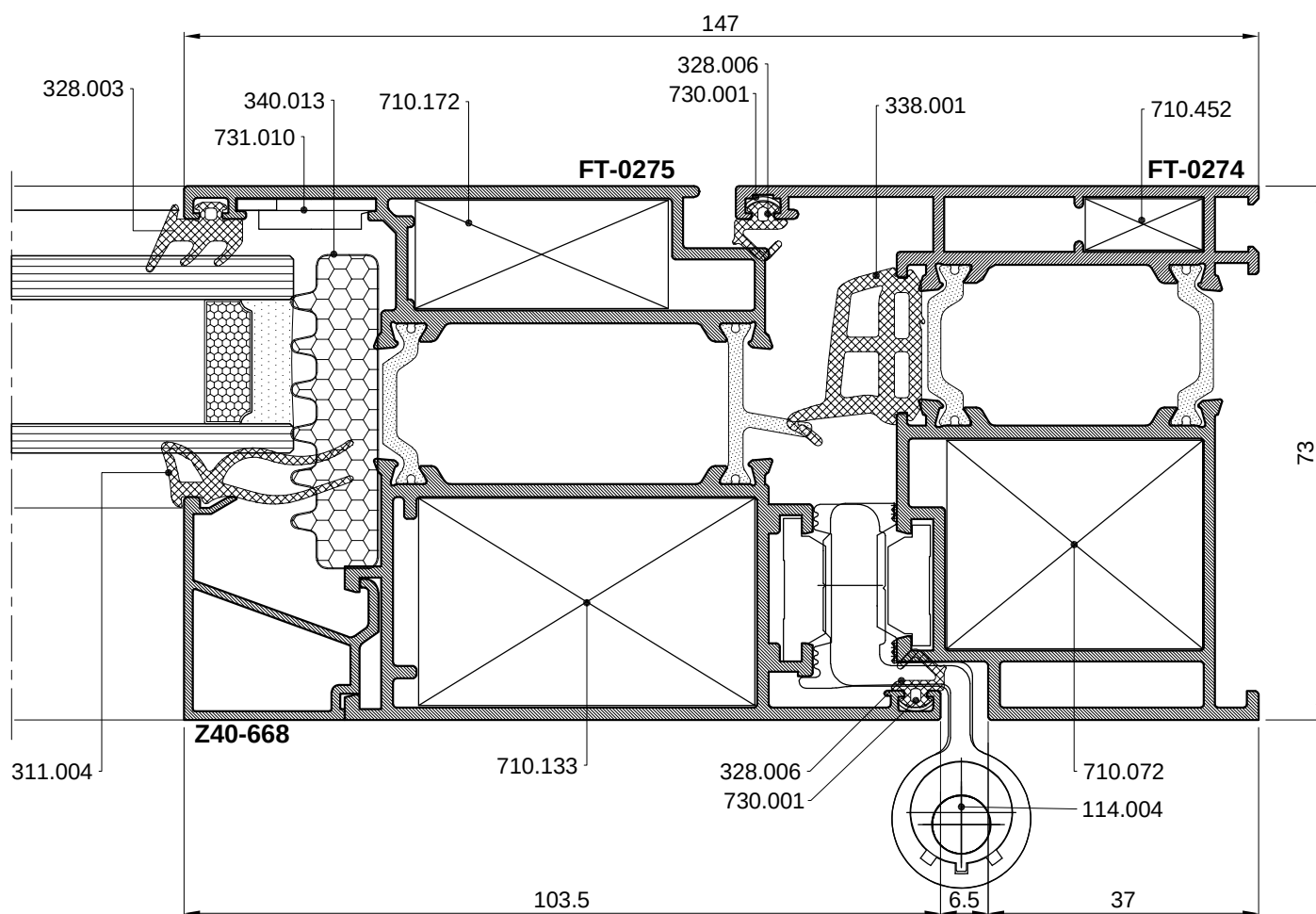
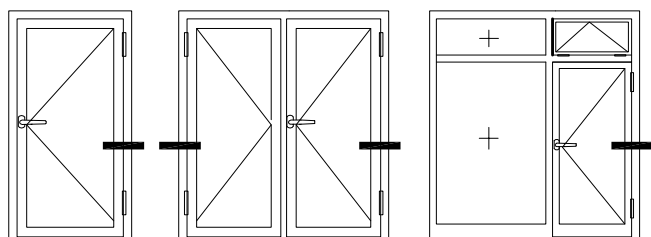
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

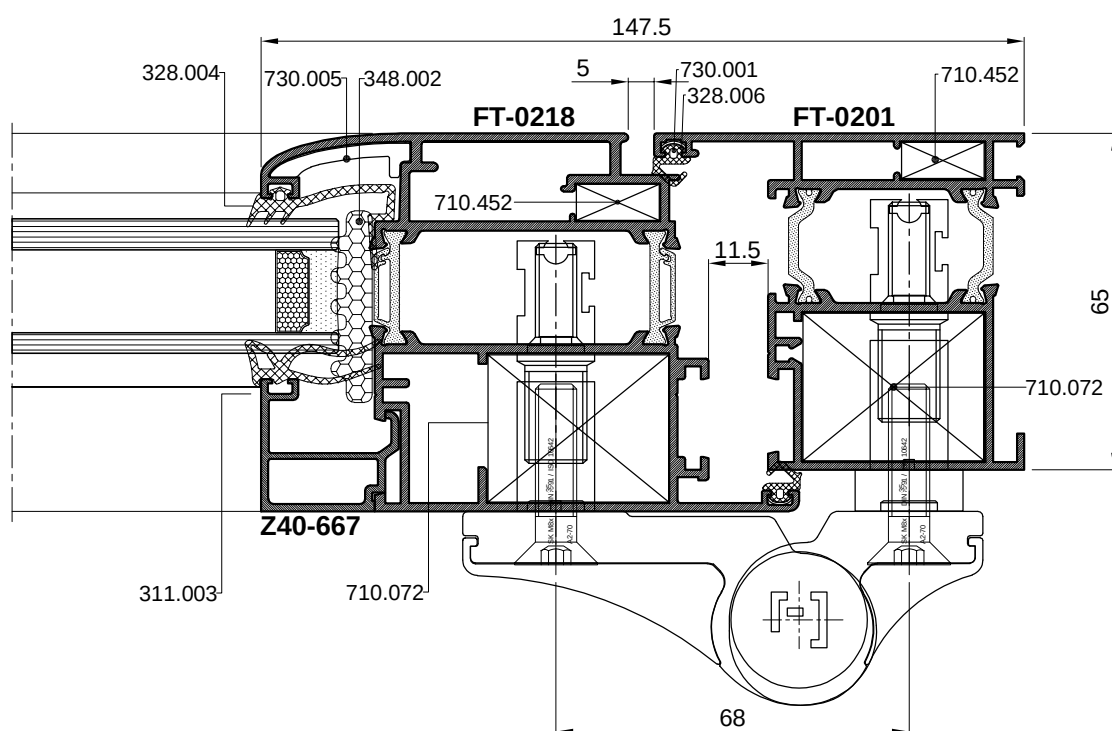
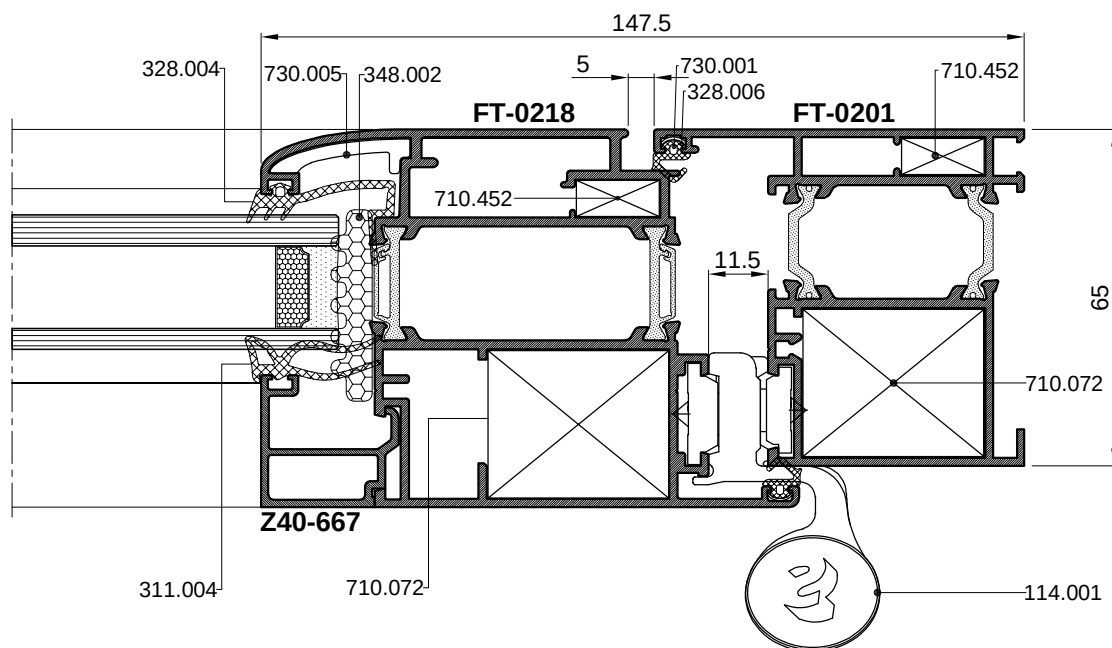
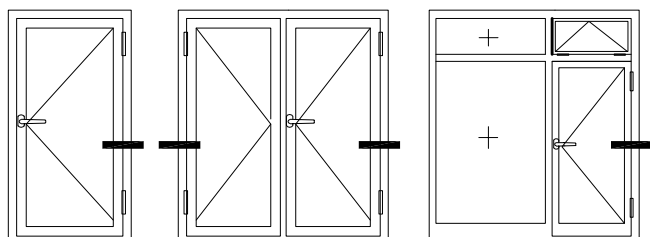


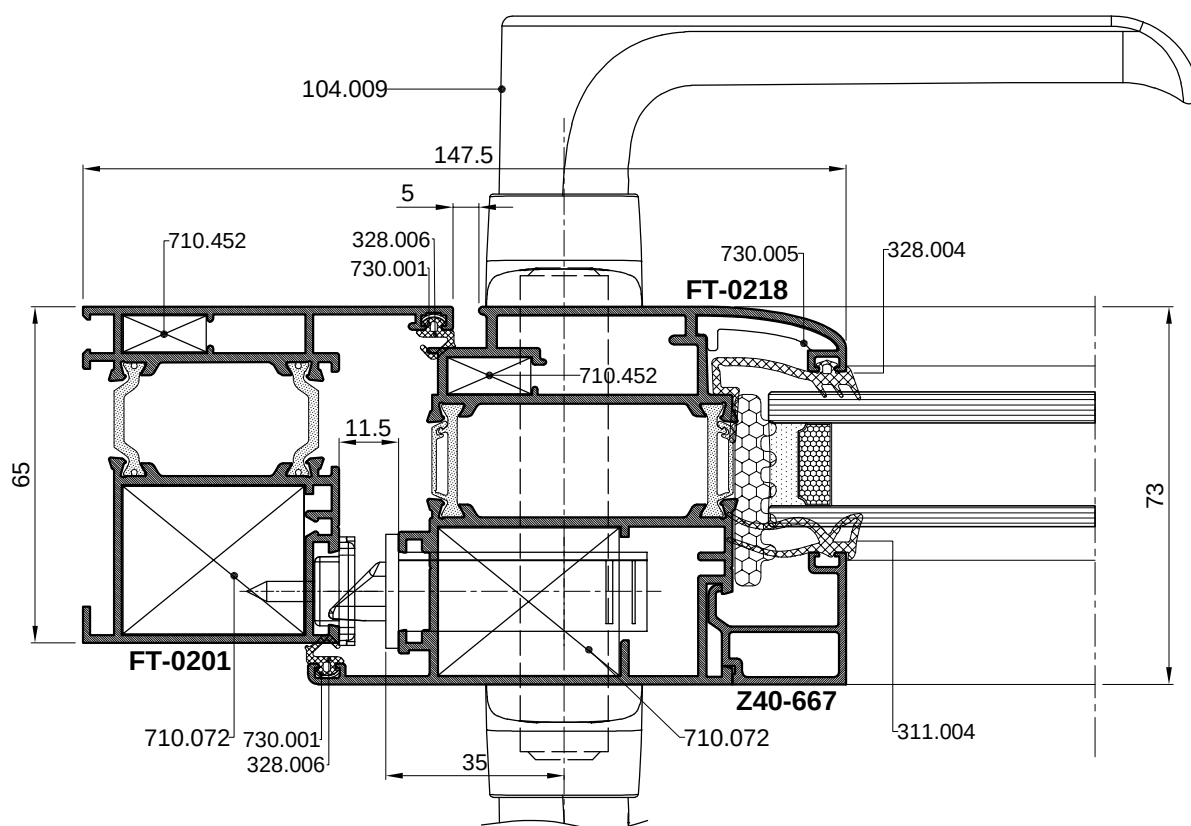
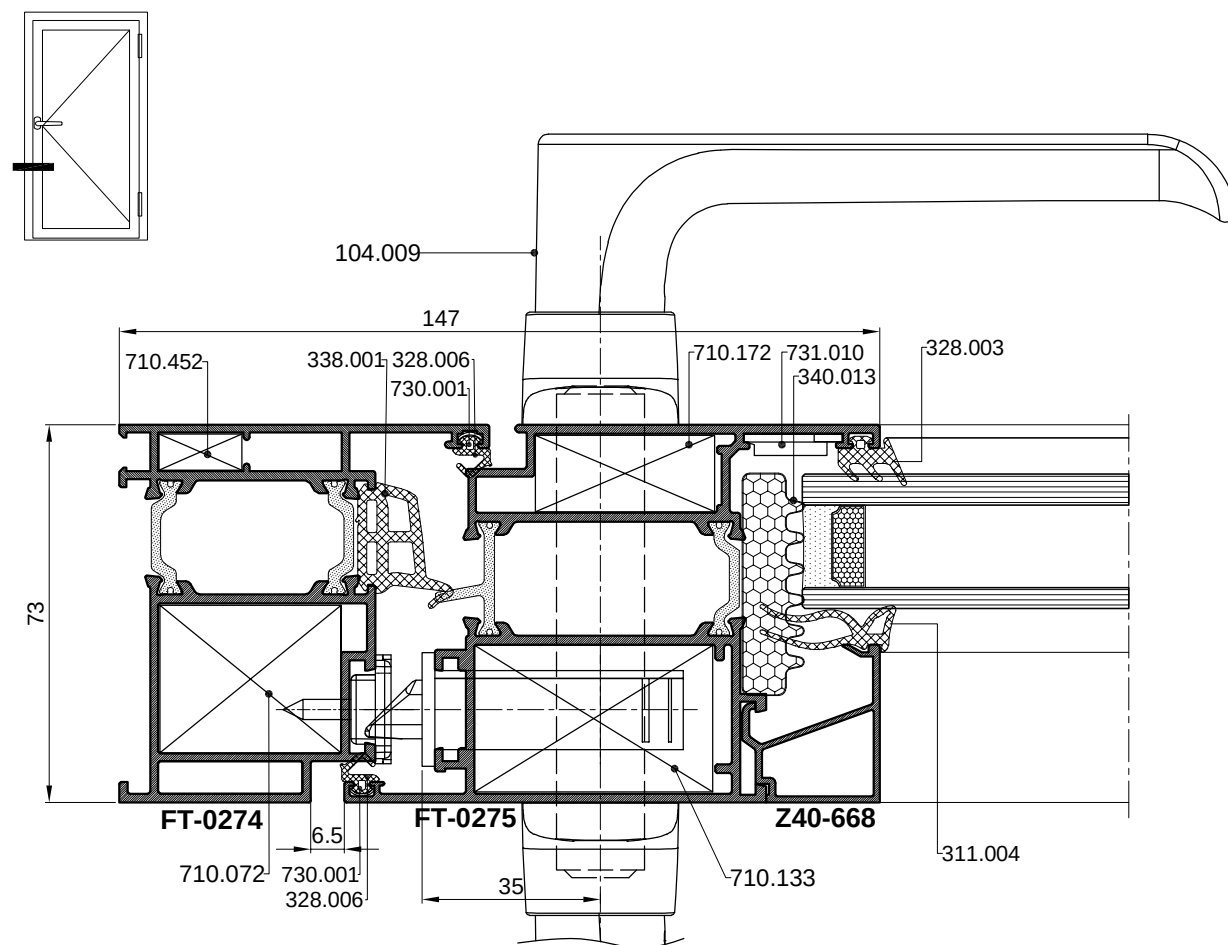


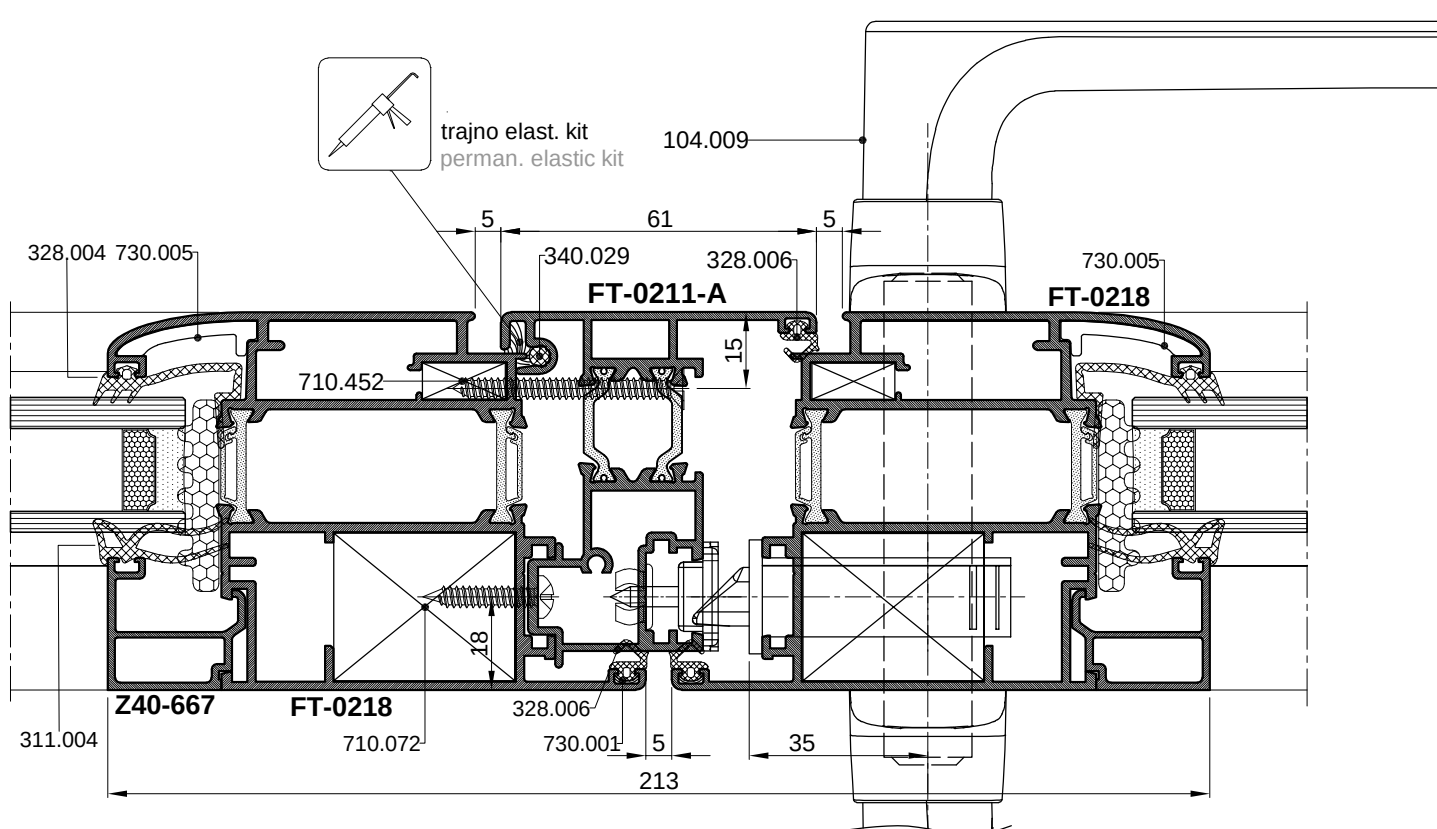
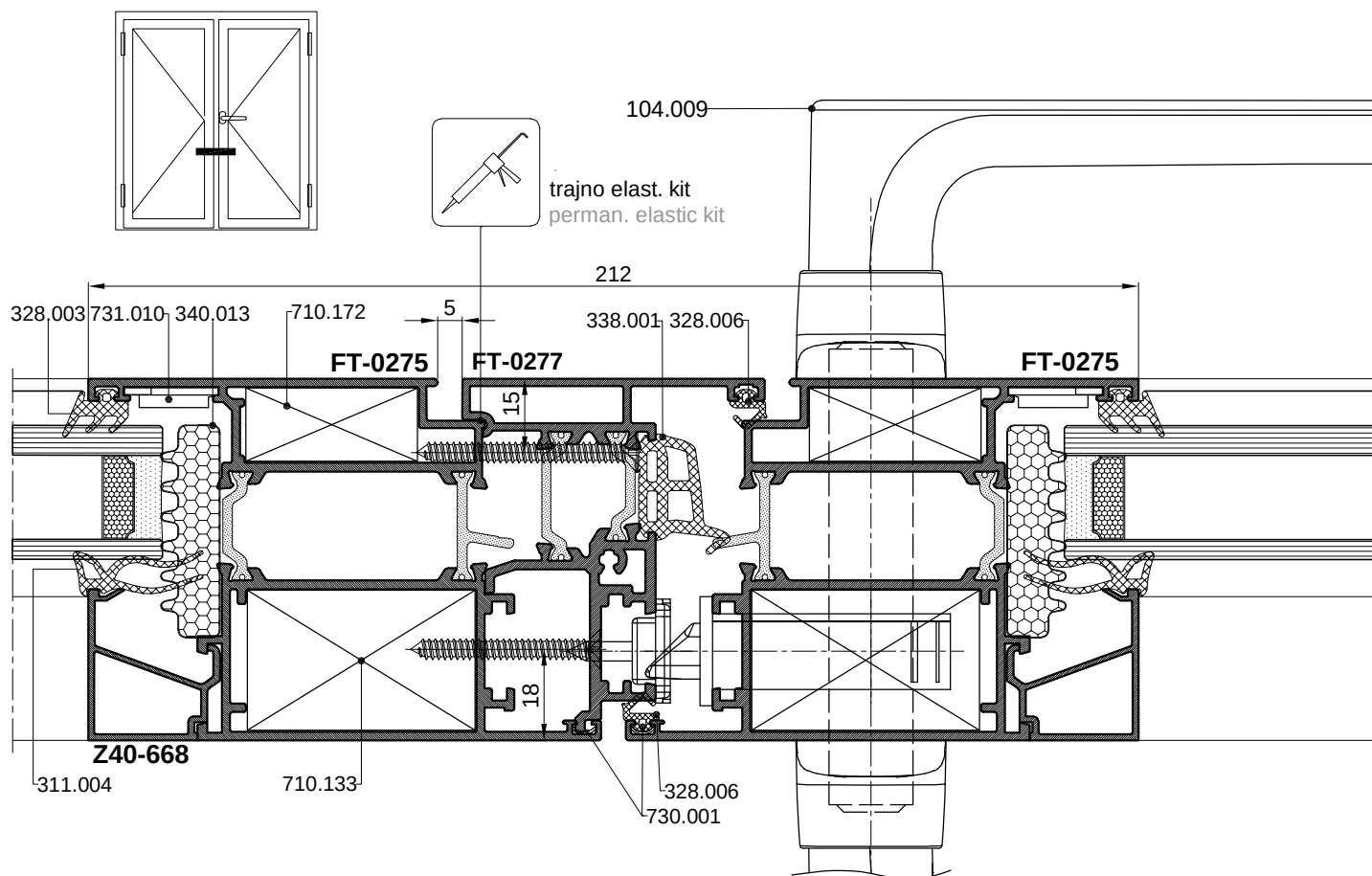


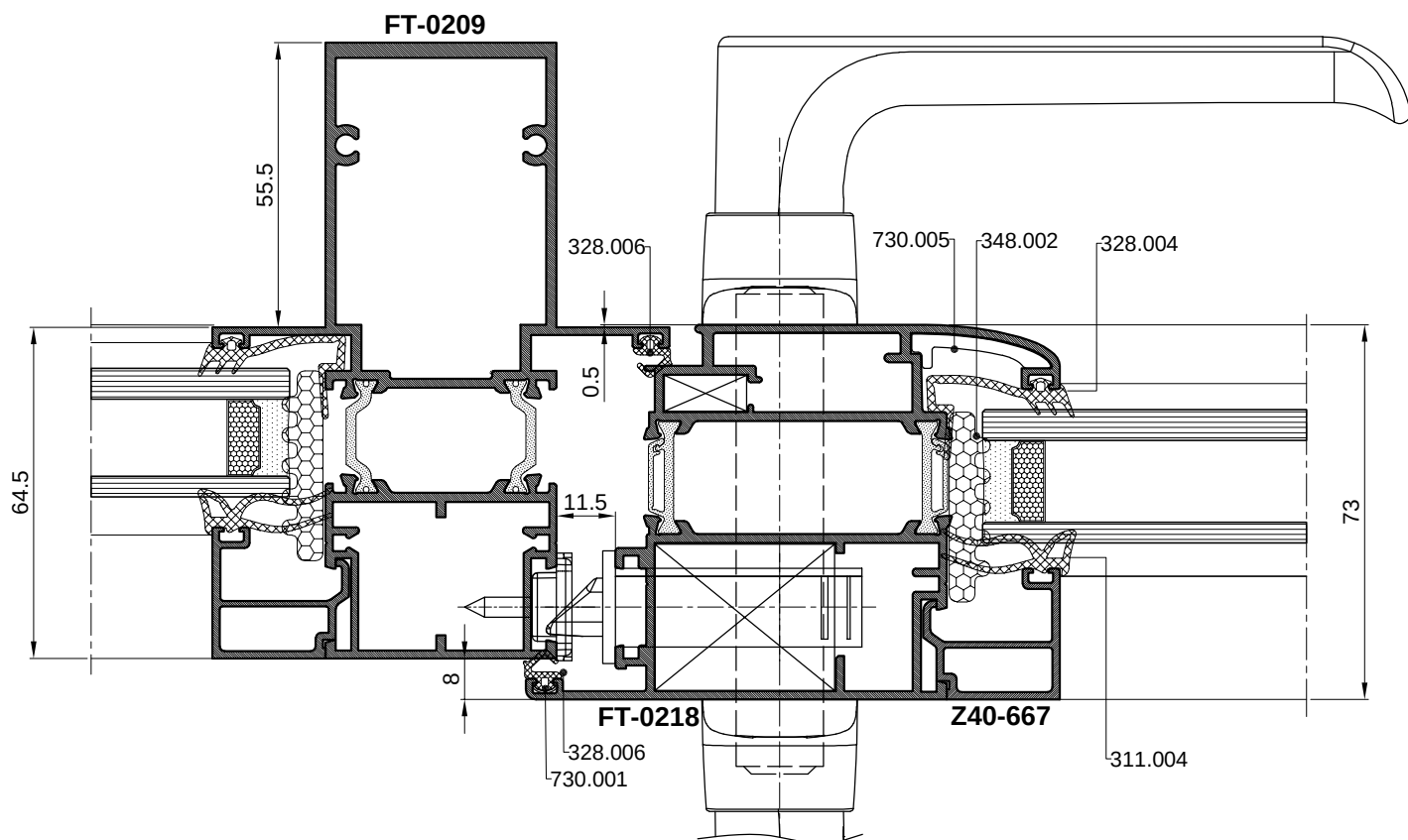
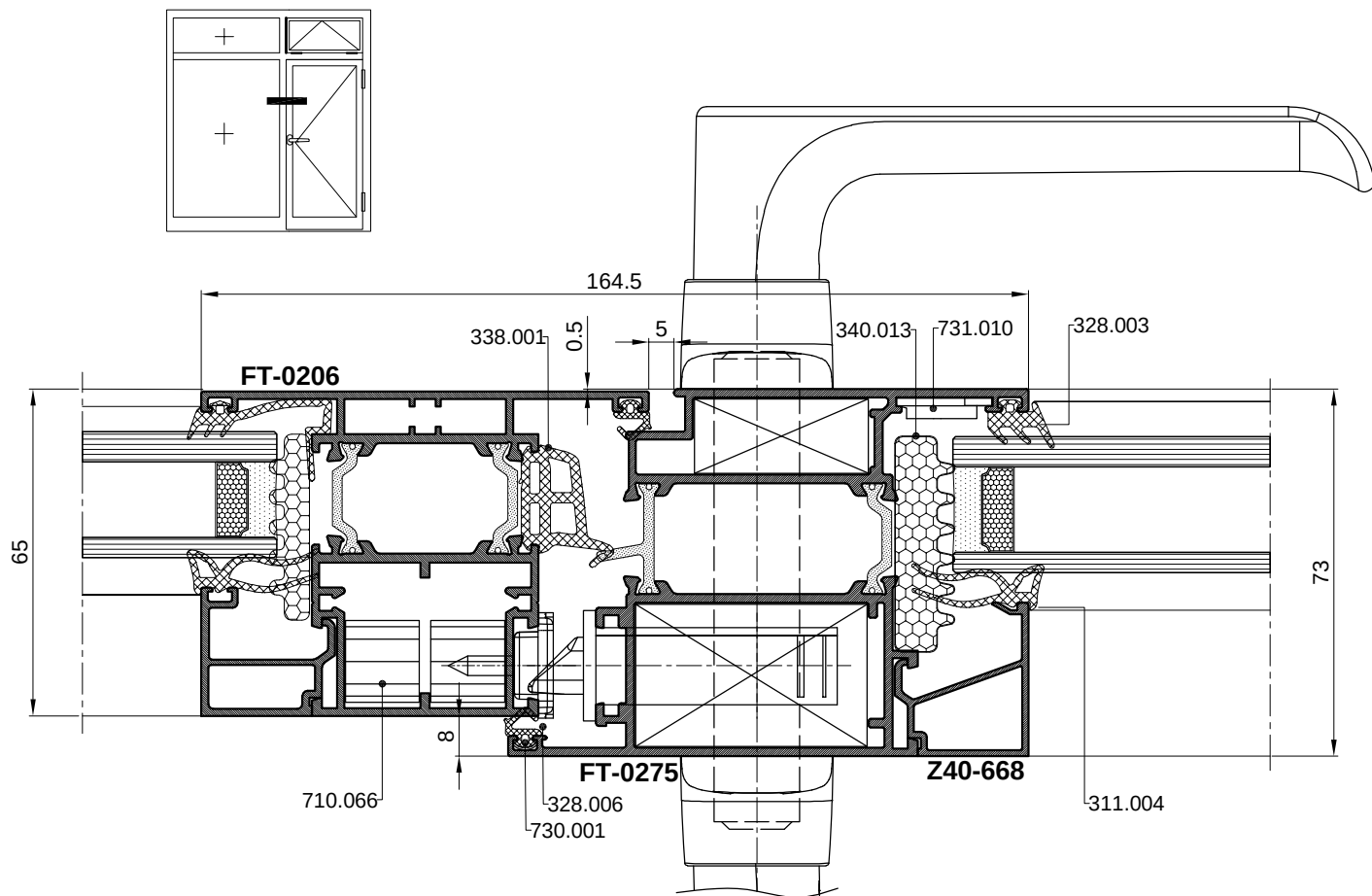




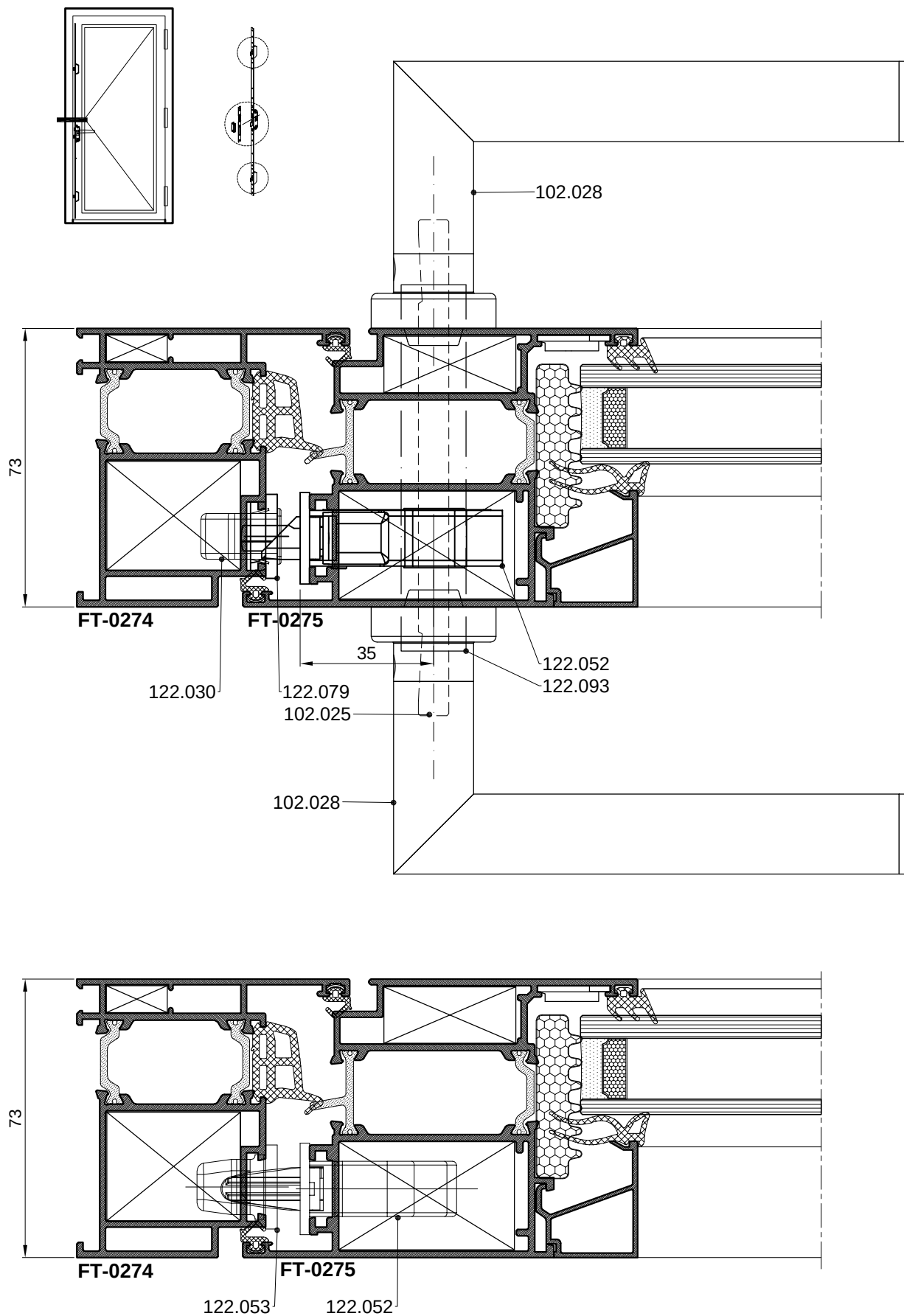




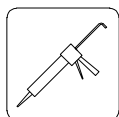
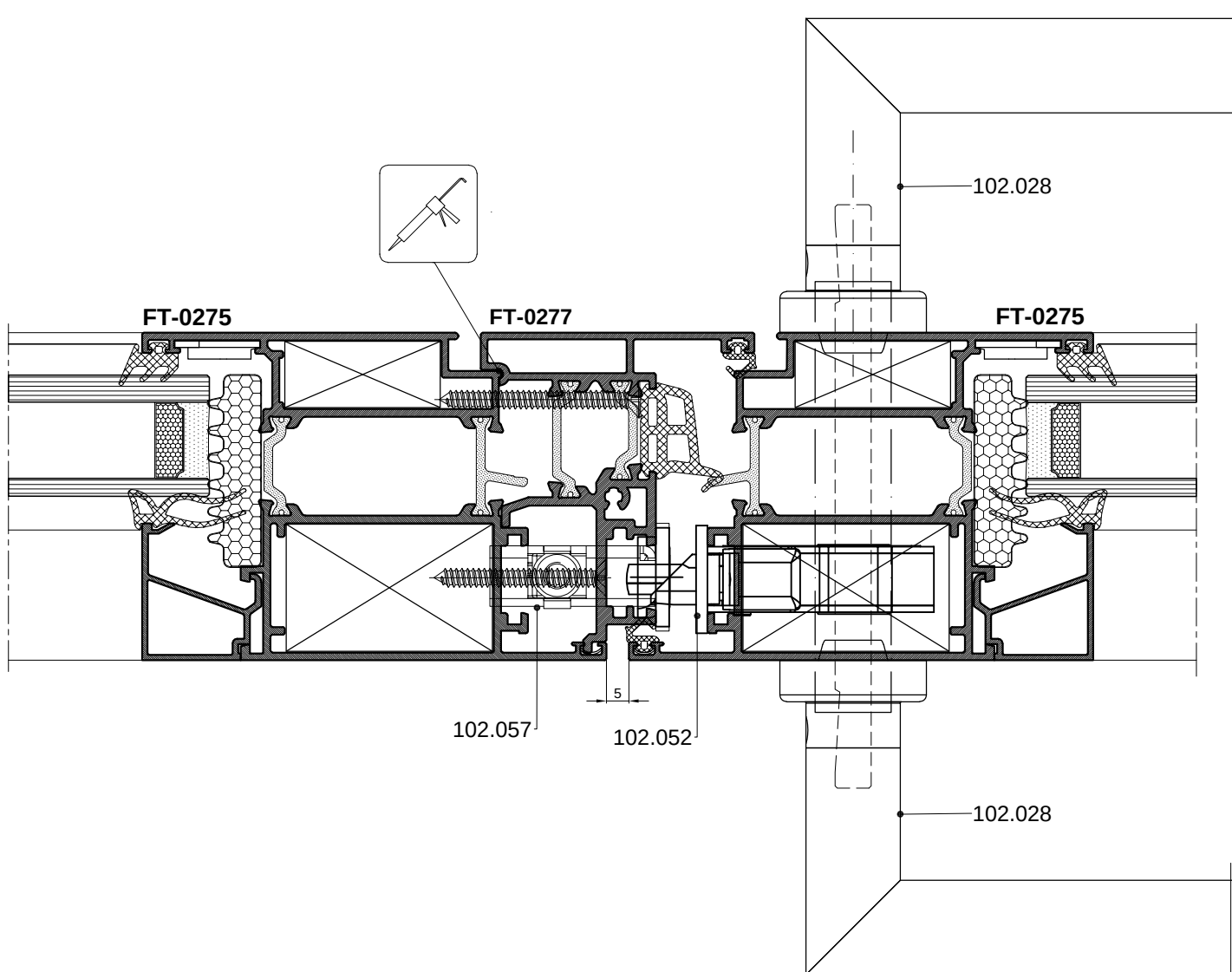
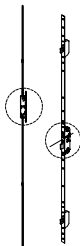
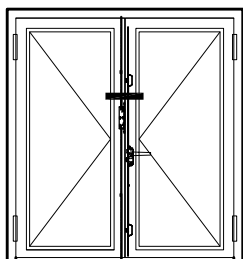




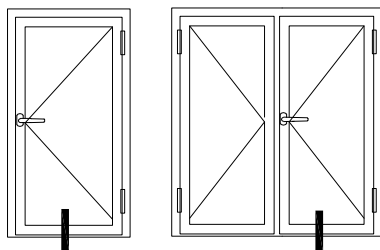
VRATA SA SIG. BRAVOM 35 mm-MR2 (GU)
DOOR WITH SAFETY LOCK 35 mm-MR2 (GU)



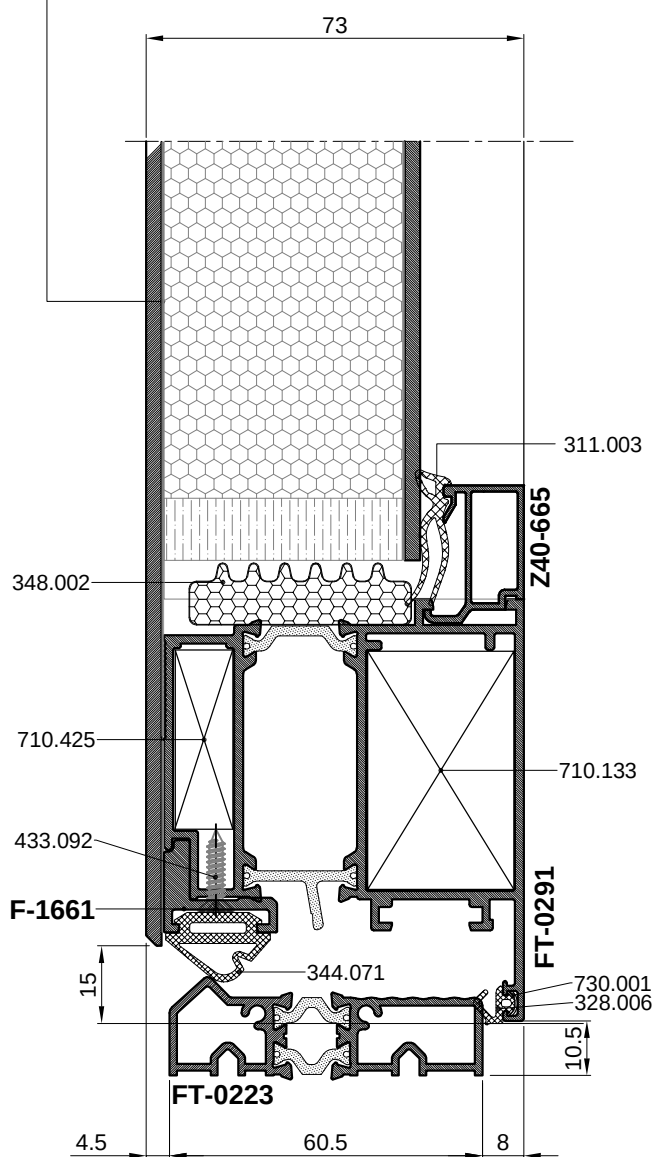
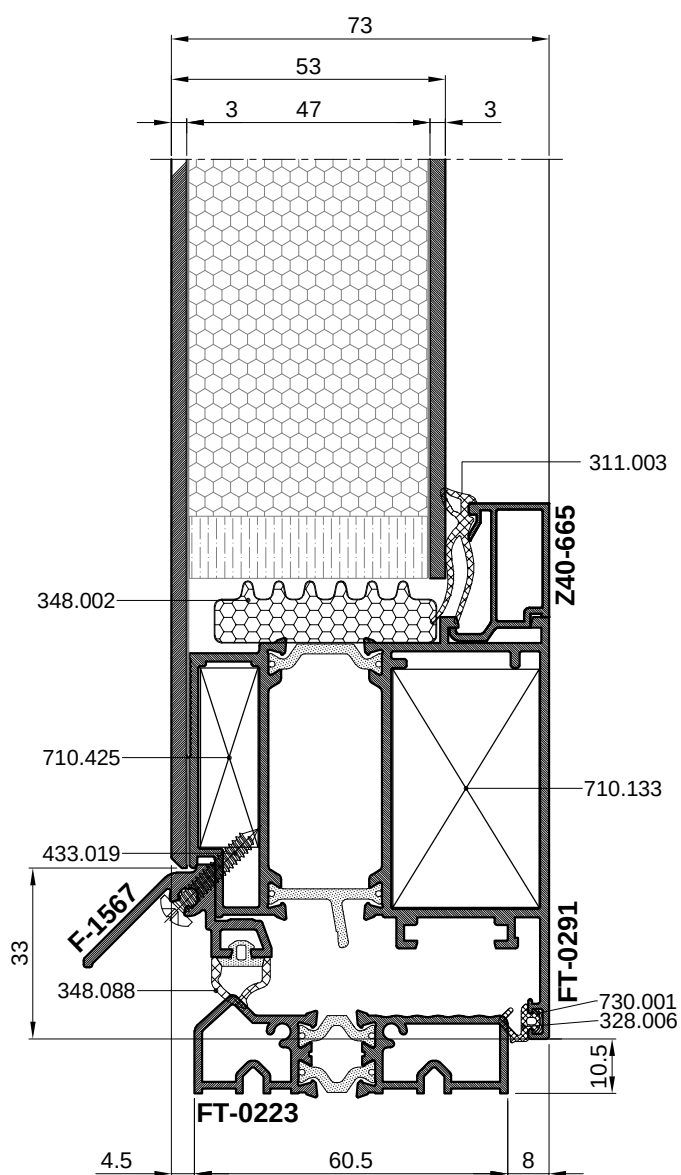
VRATA SA SIG.BRAVOM 35 mm-MR2 (GU)
DOOR WITH SAFETY LOCK 35 mm-MR2 (GU)

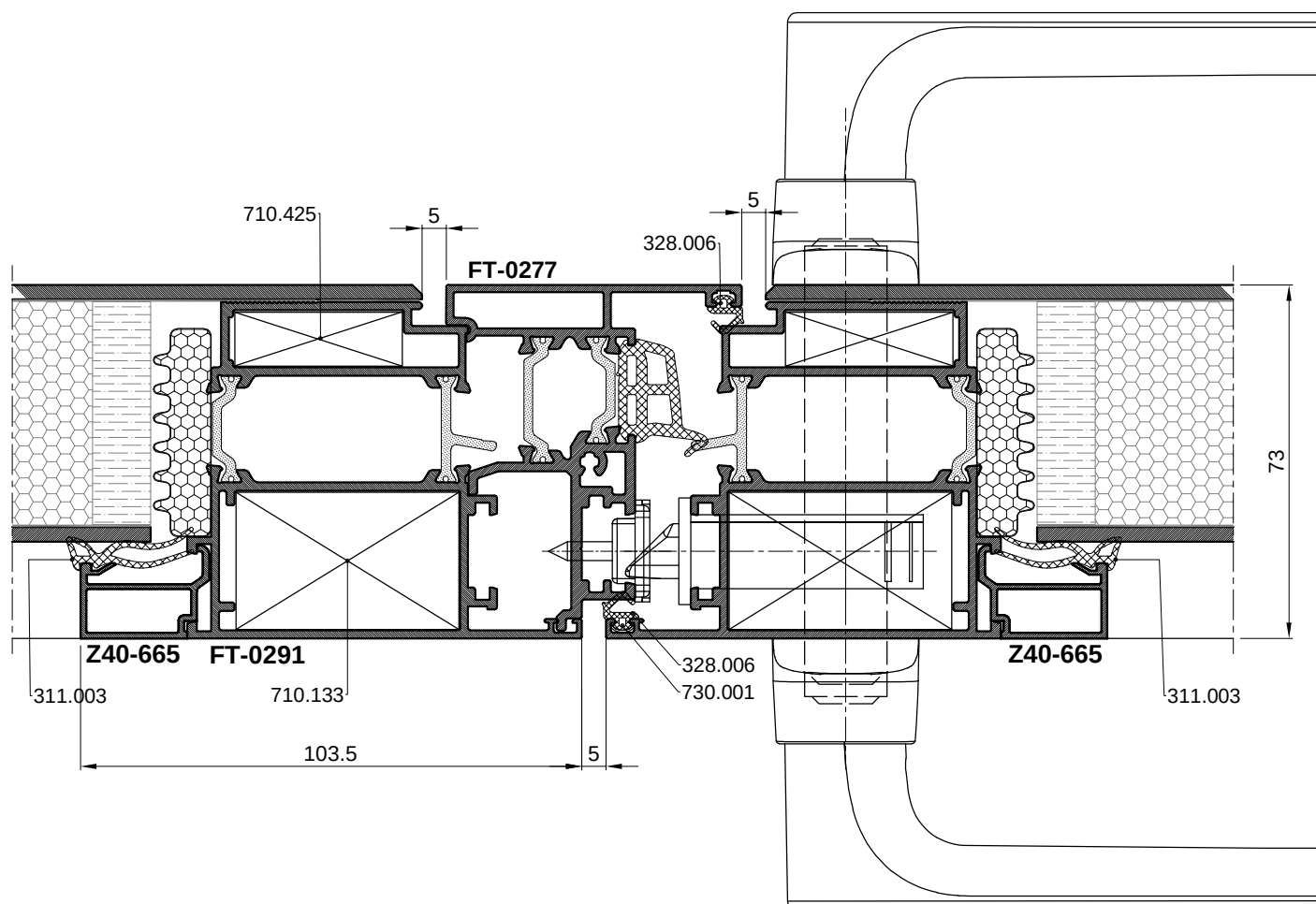
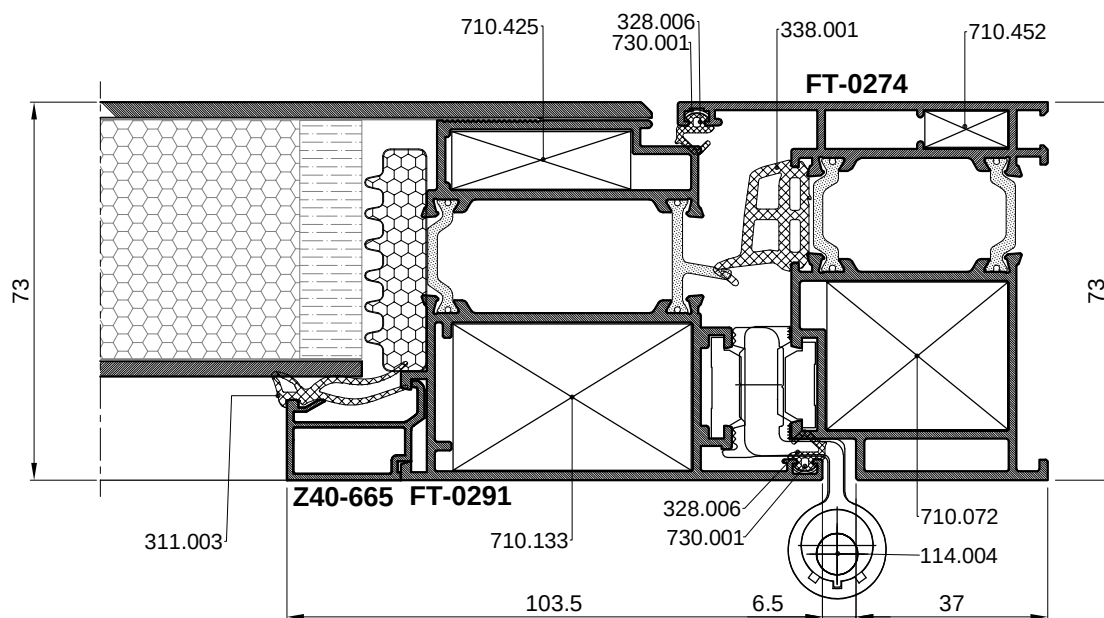
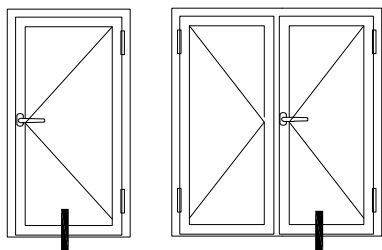


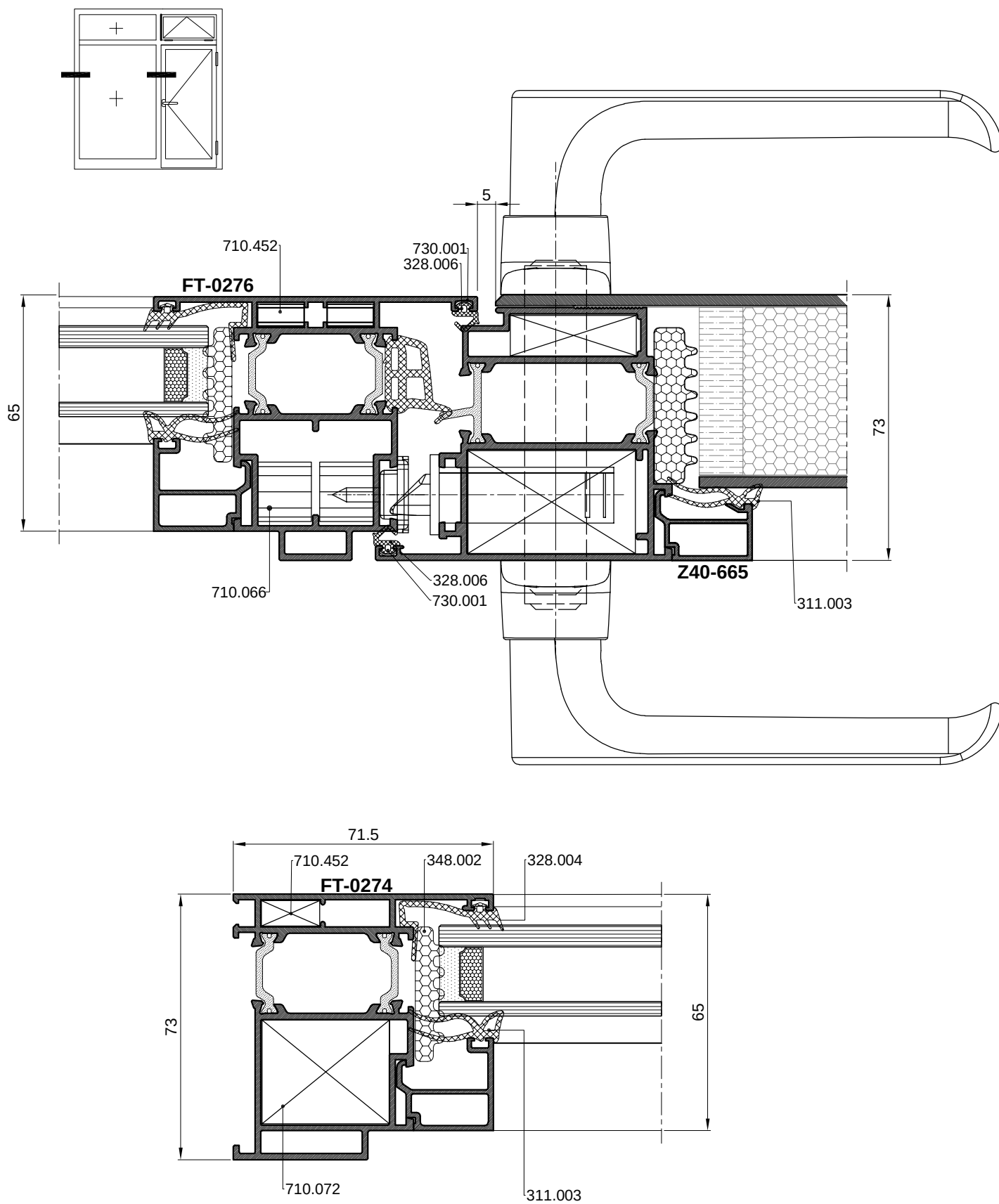
lijepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

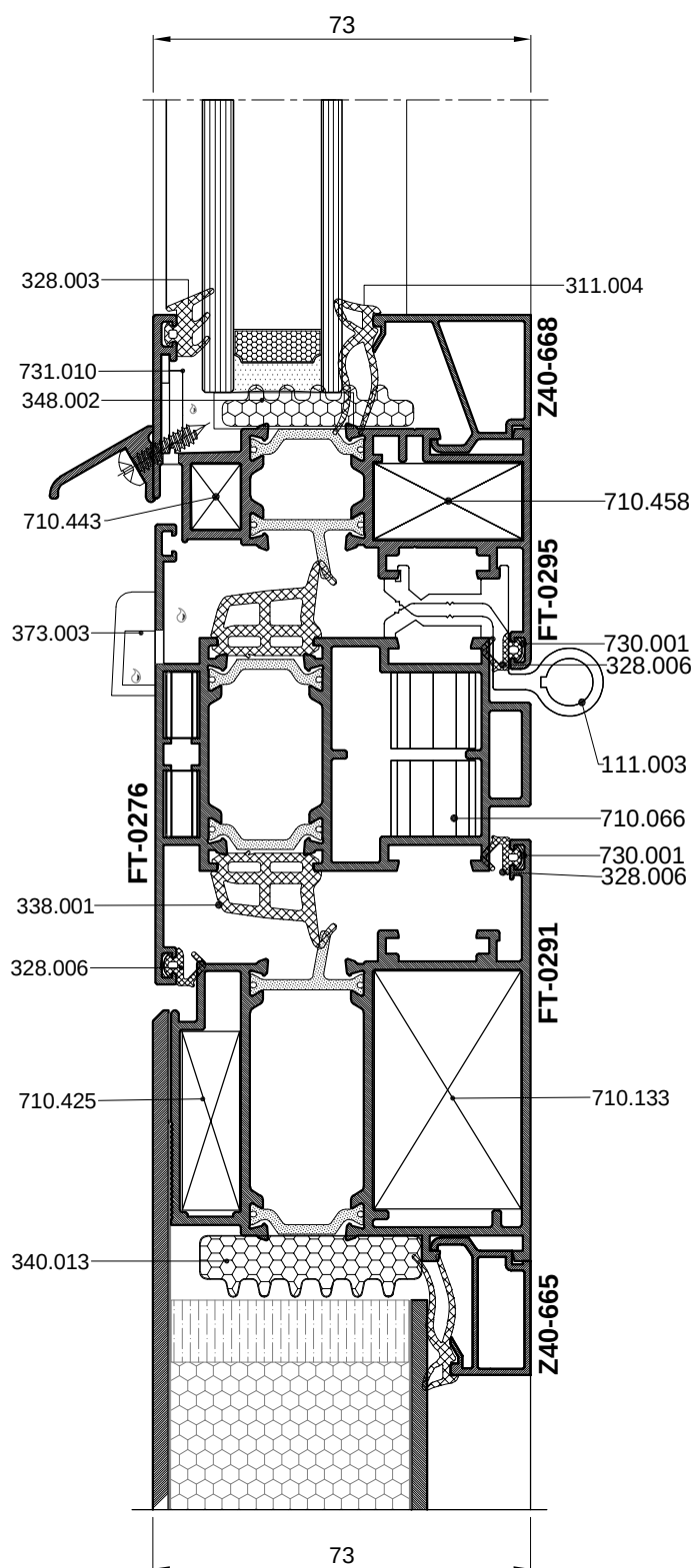
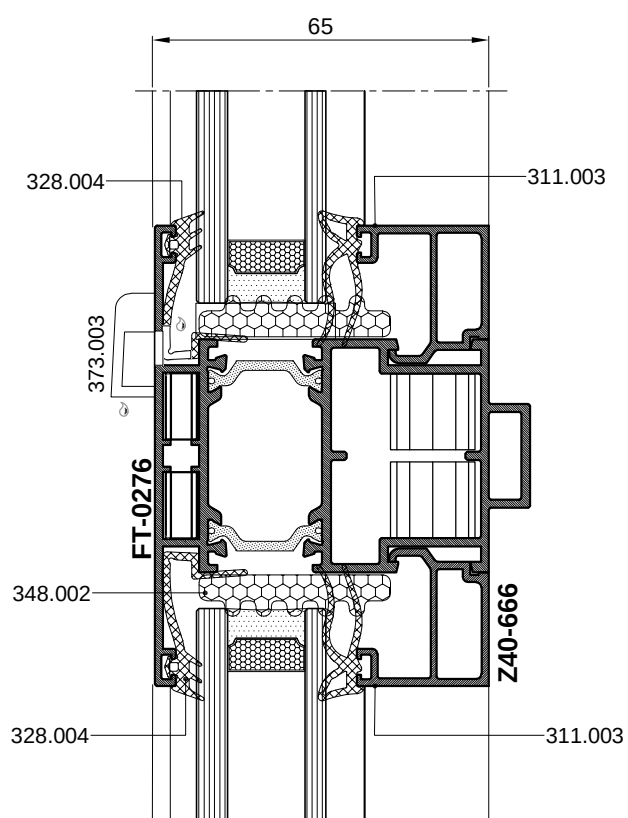
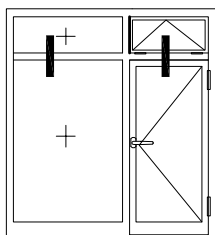


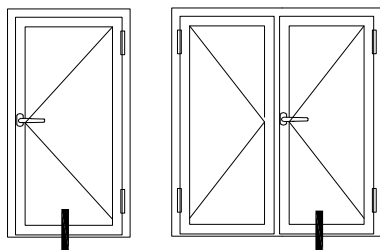
Teroson T-8519-primer-414.001
Teroson MS 9399 -ljepilo-414.002
Teroson T-8519P-primer-414.001
Teroson MS 9399 -adhesive-414.002





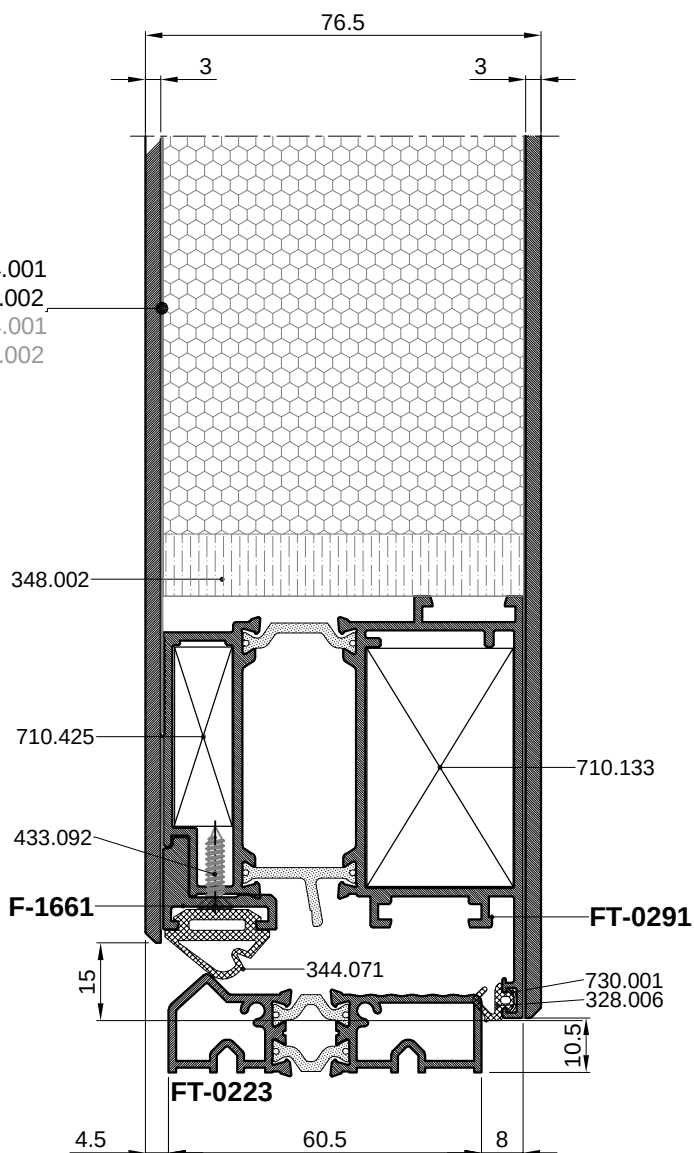


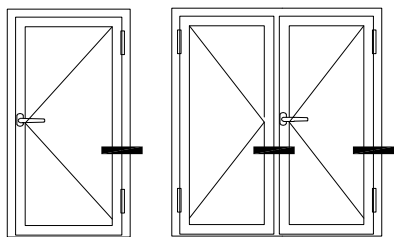




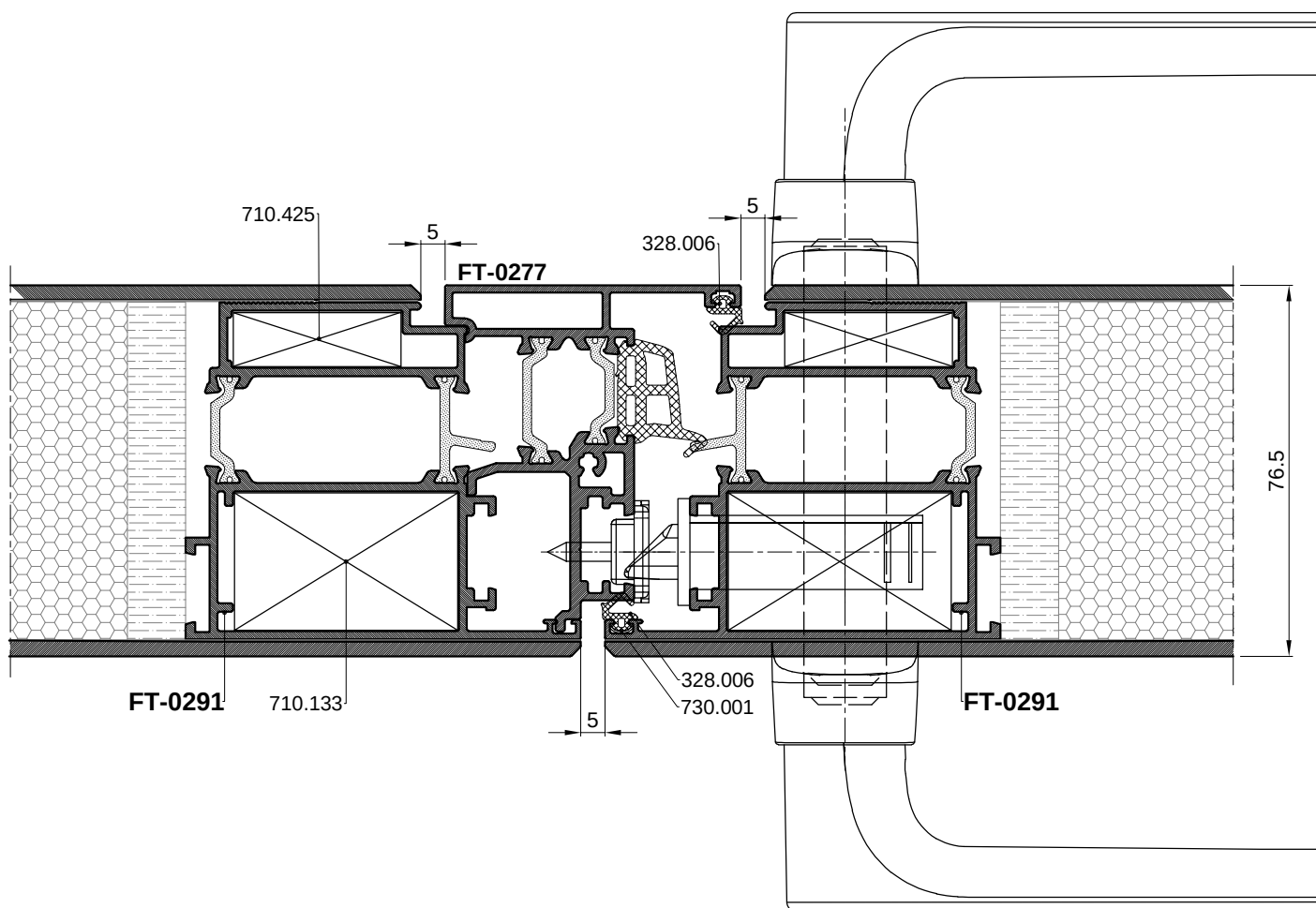
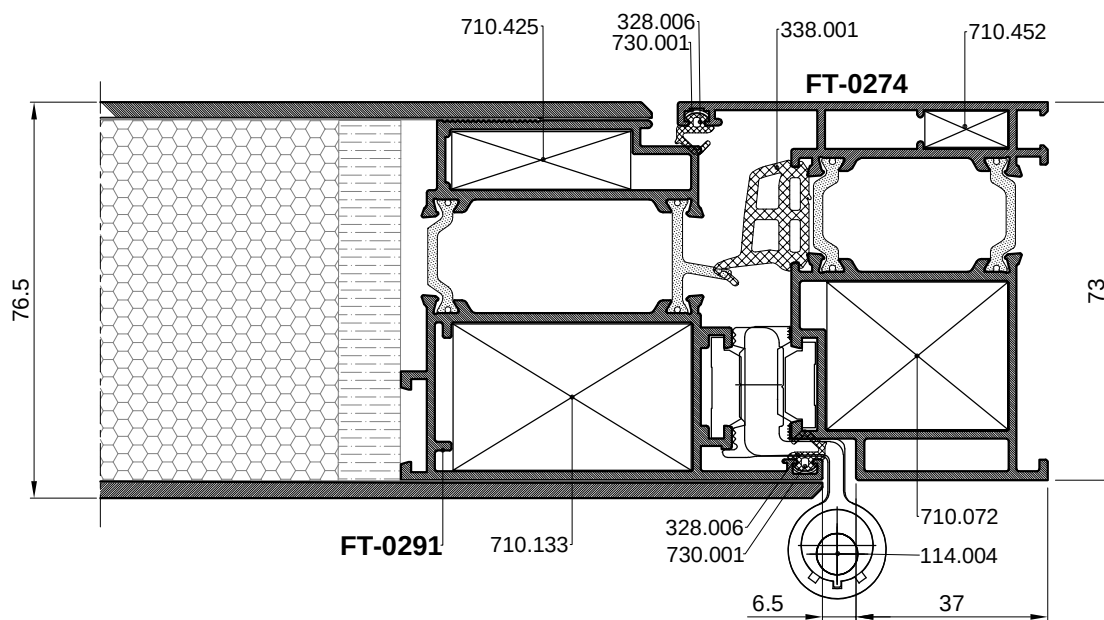
VRATA S OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING

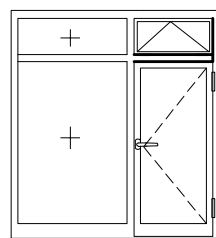
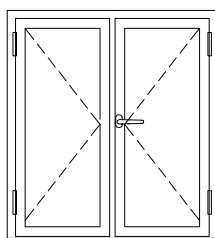
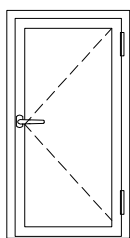
Teroson T-8519-primer-414.001
Teroson MS 9399 -ljepilo-414.002
Teroson T-8519P-primer-414.001
Teroson MS 9399 -adhesive-414.002

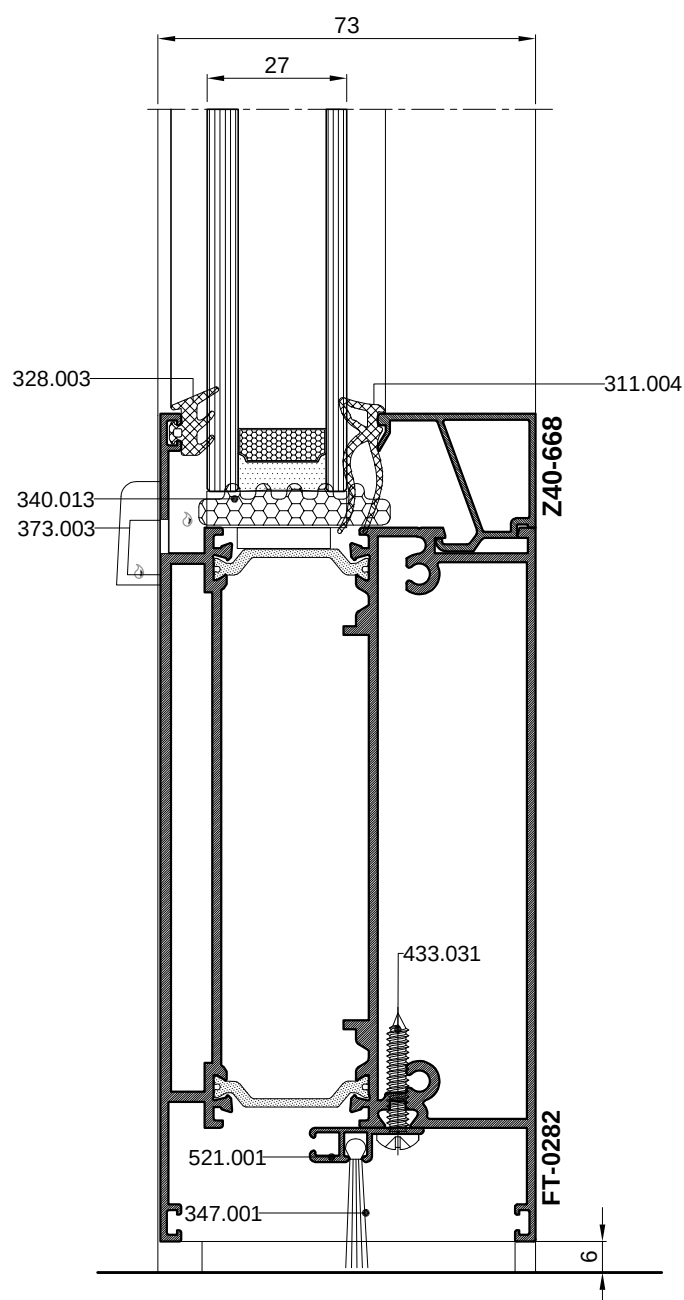
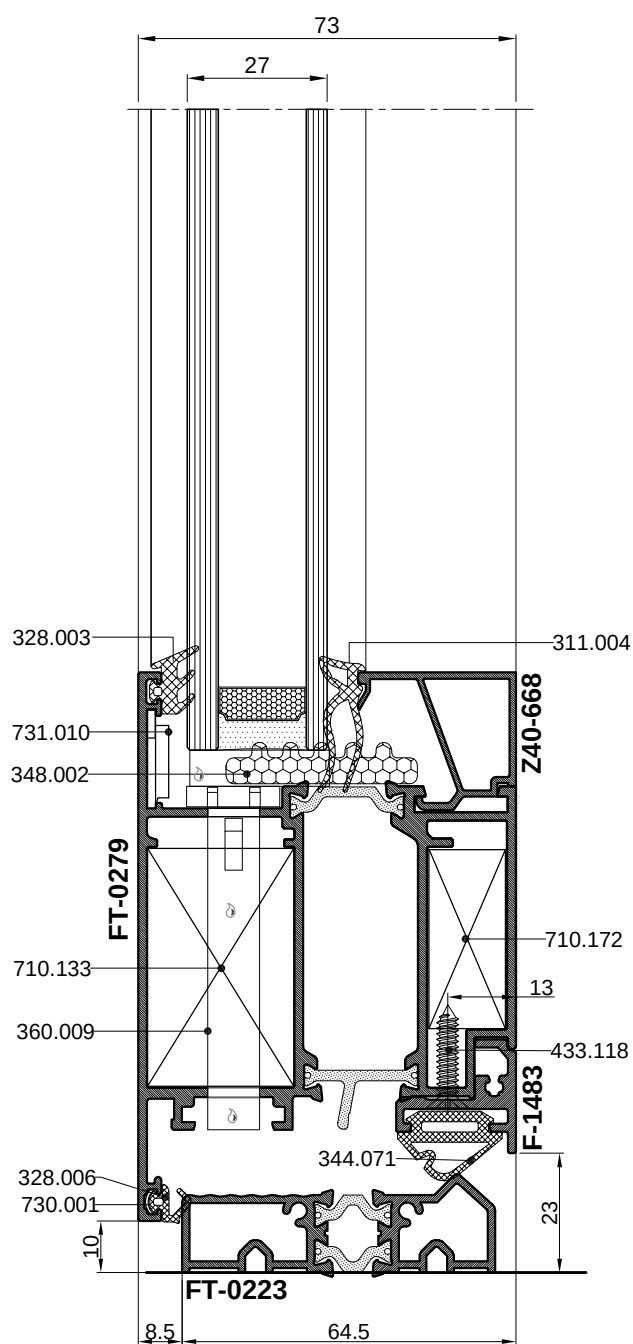
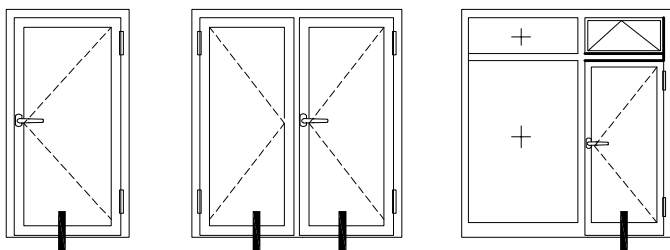


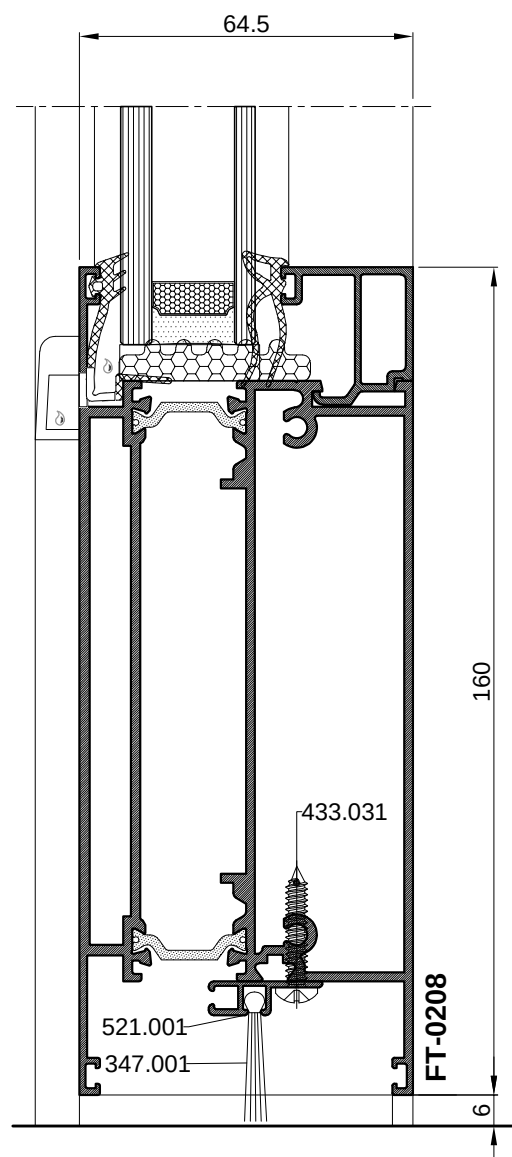
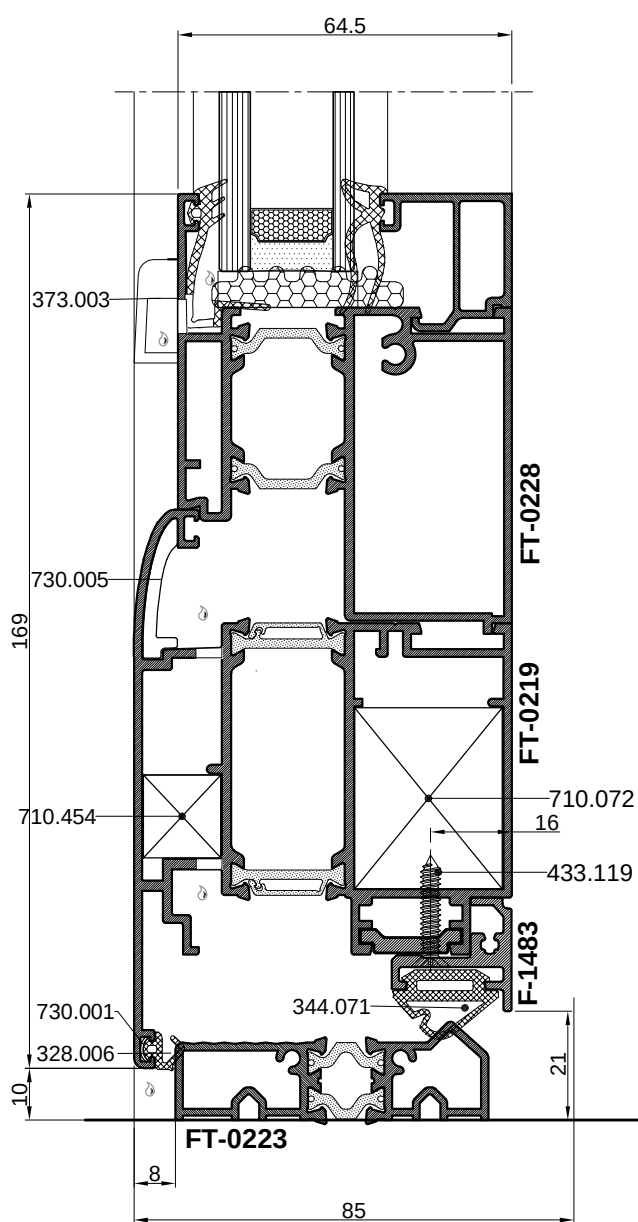
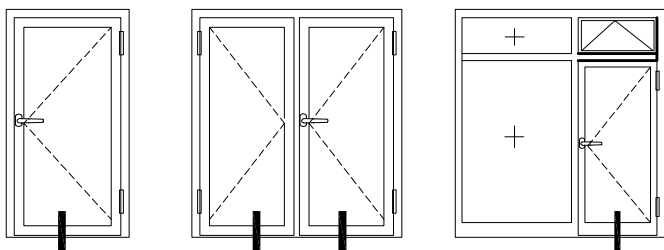


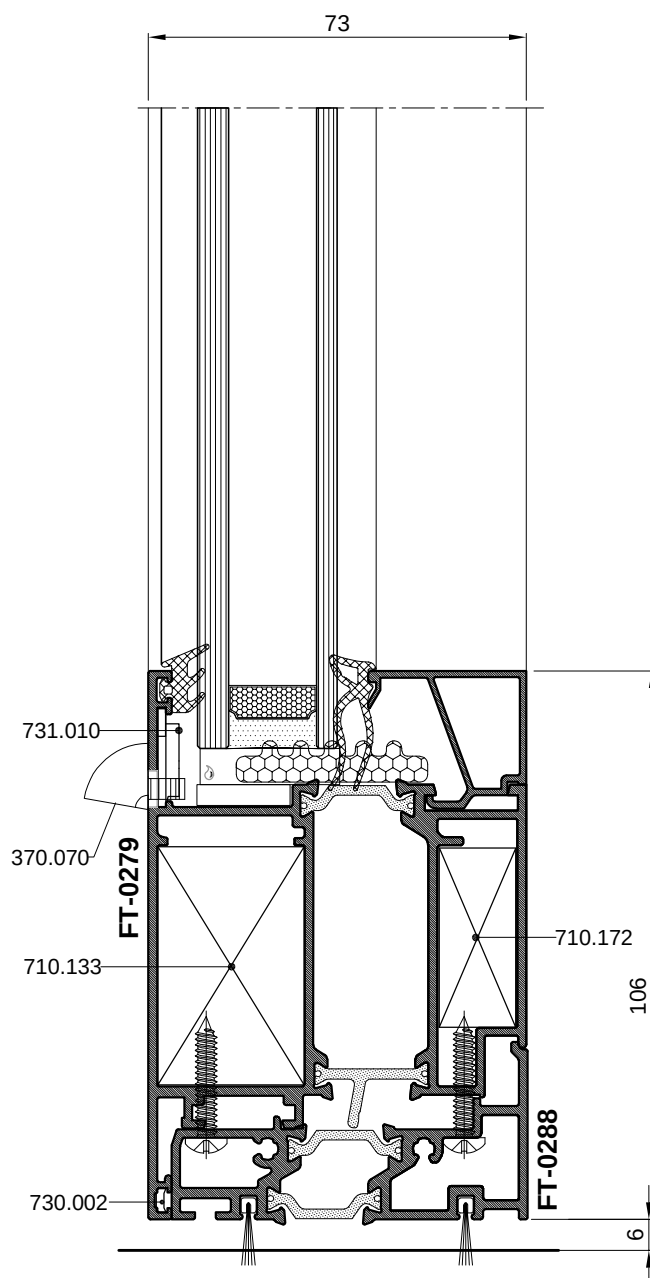
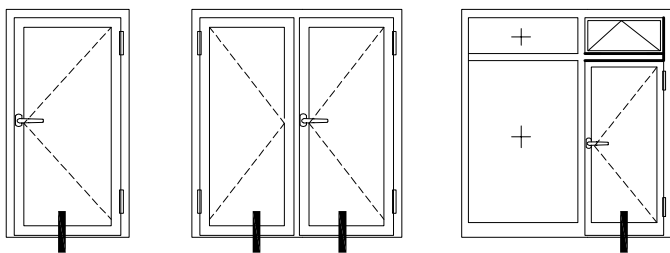
VRATA S OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING

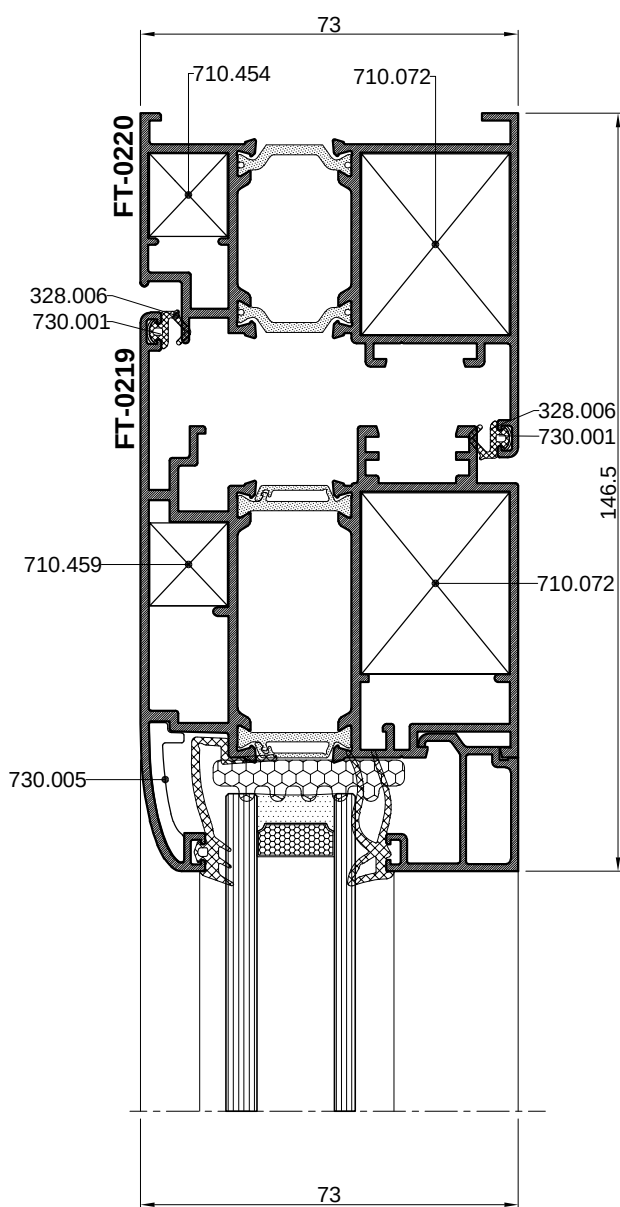
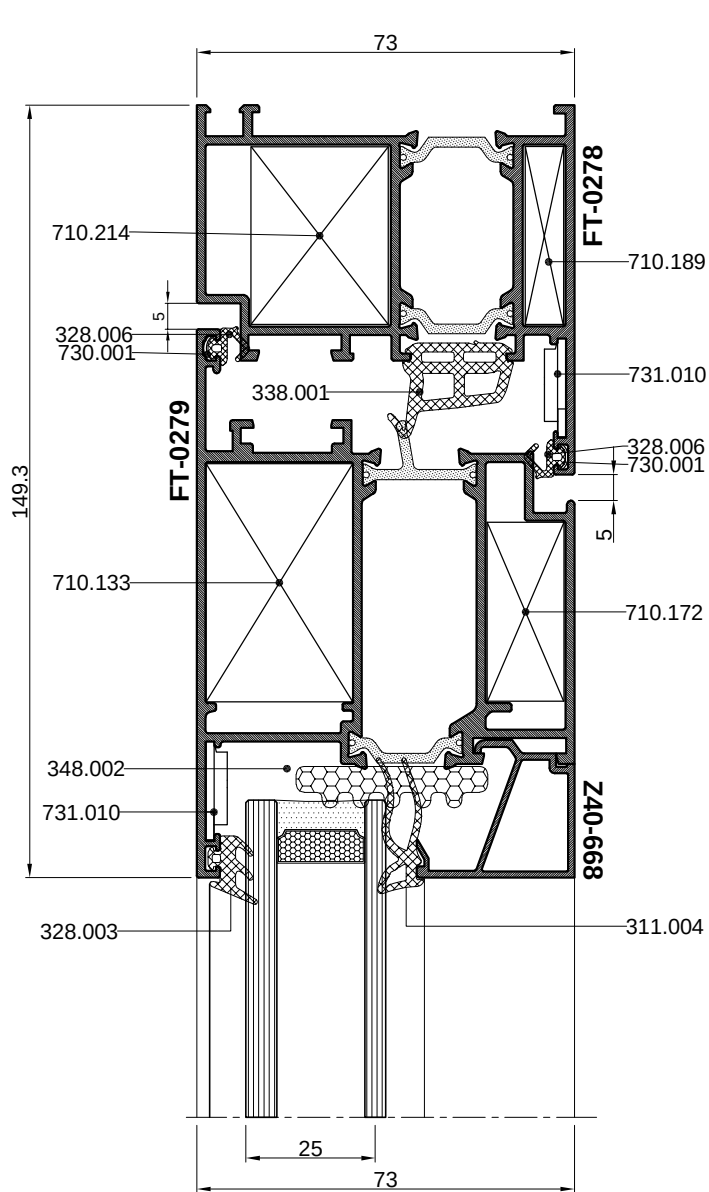
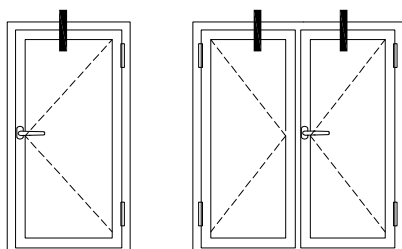


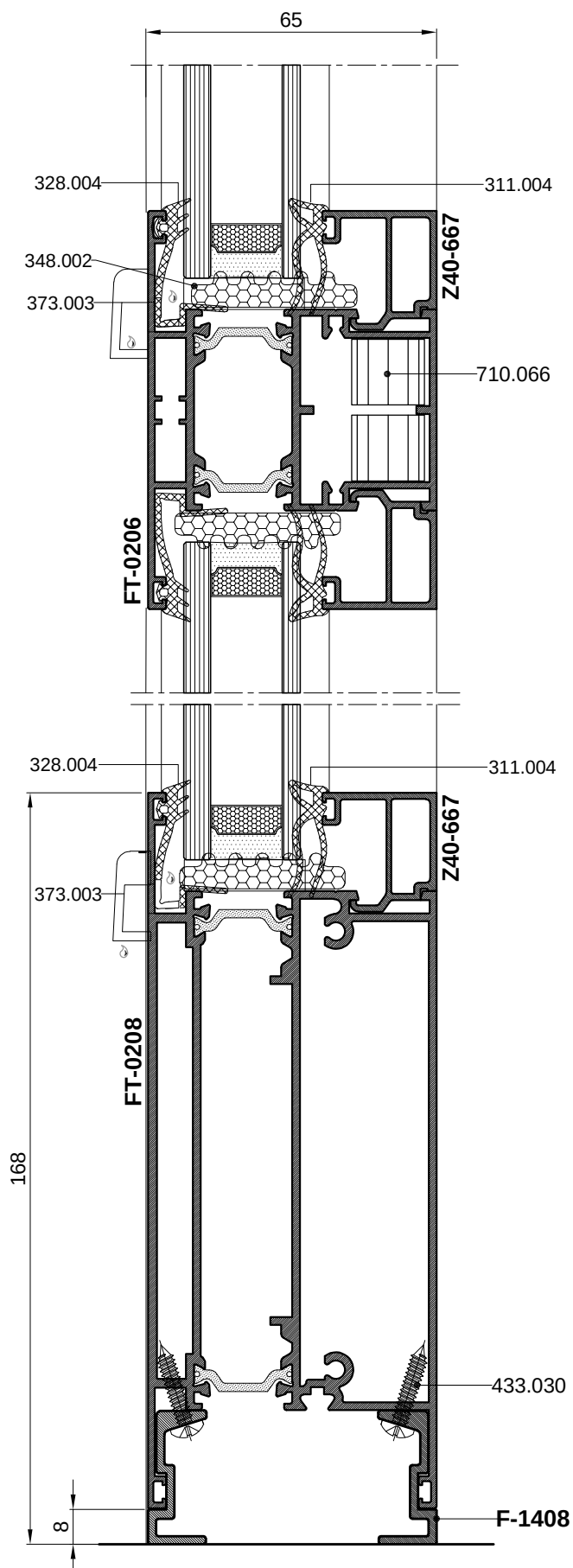
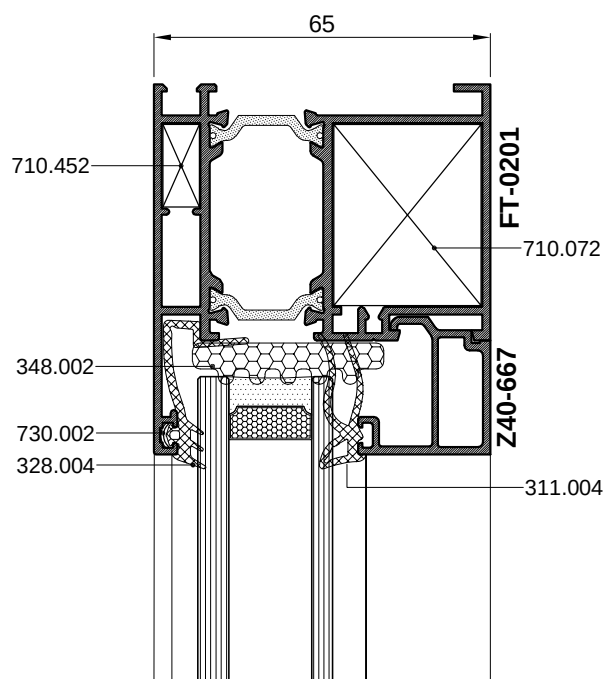
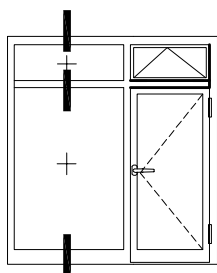


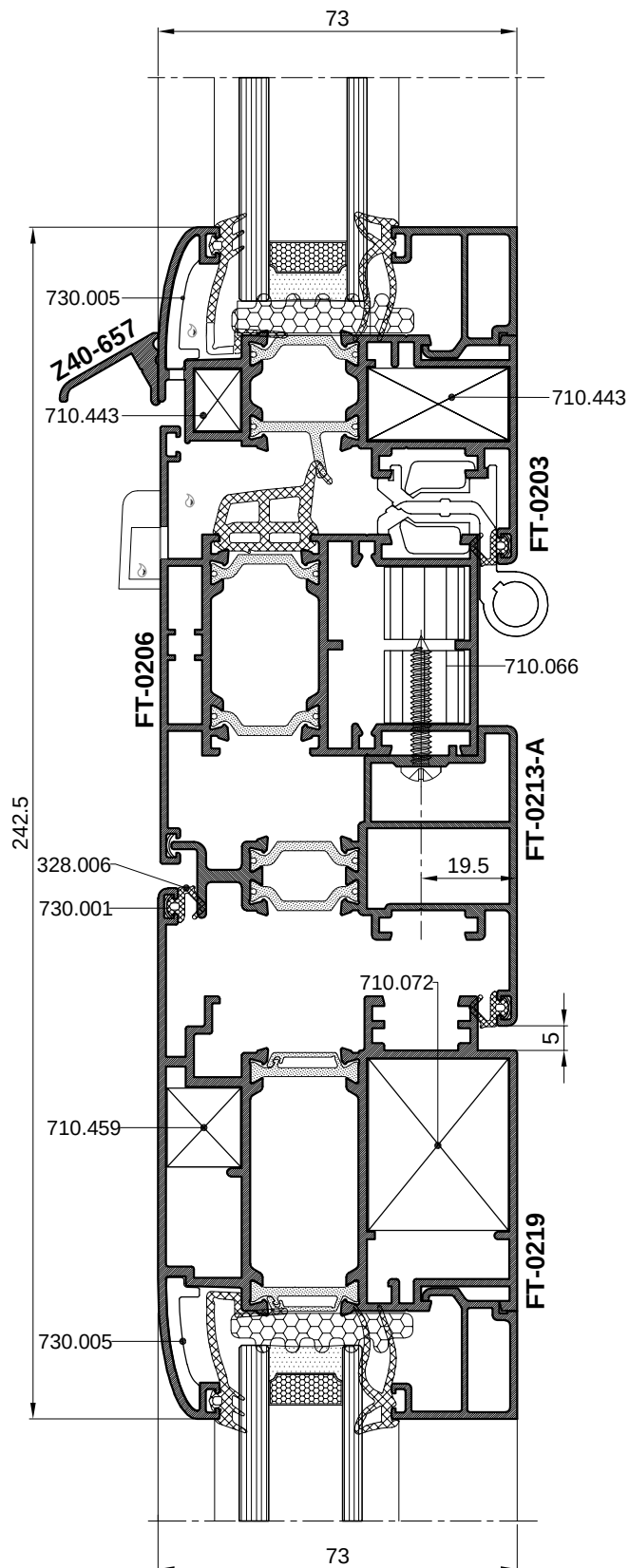
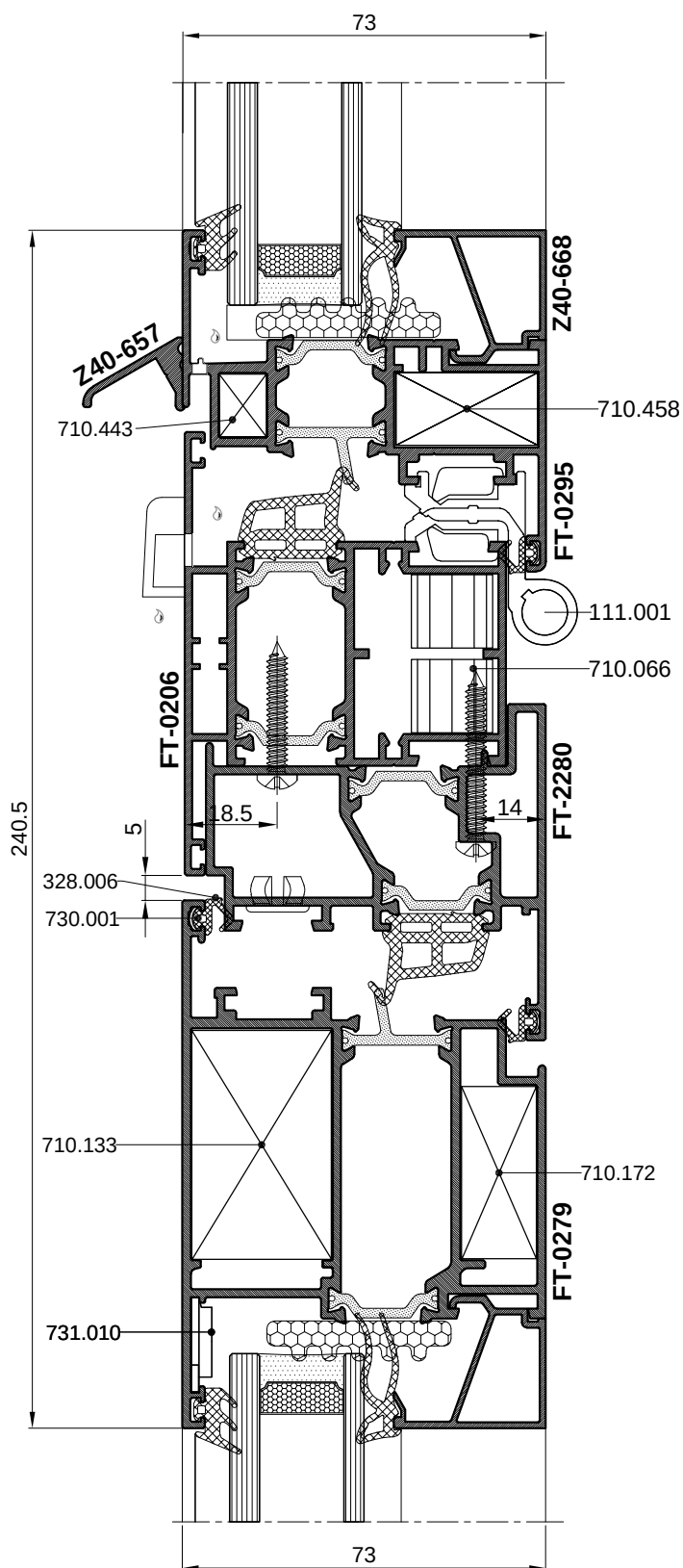
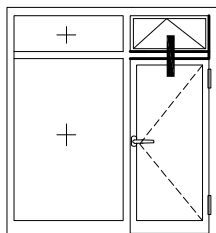


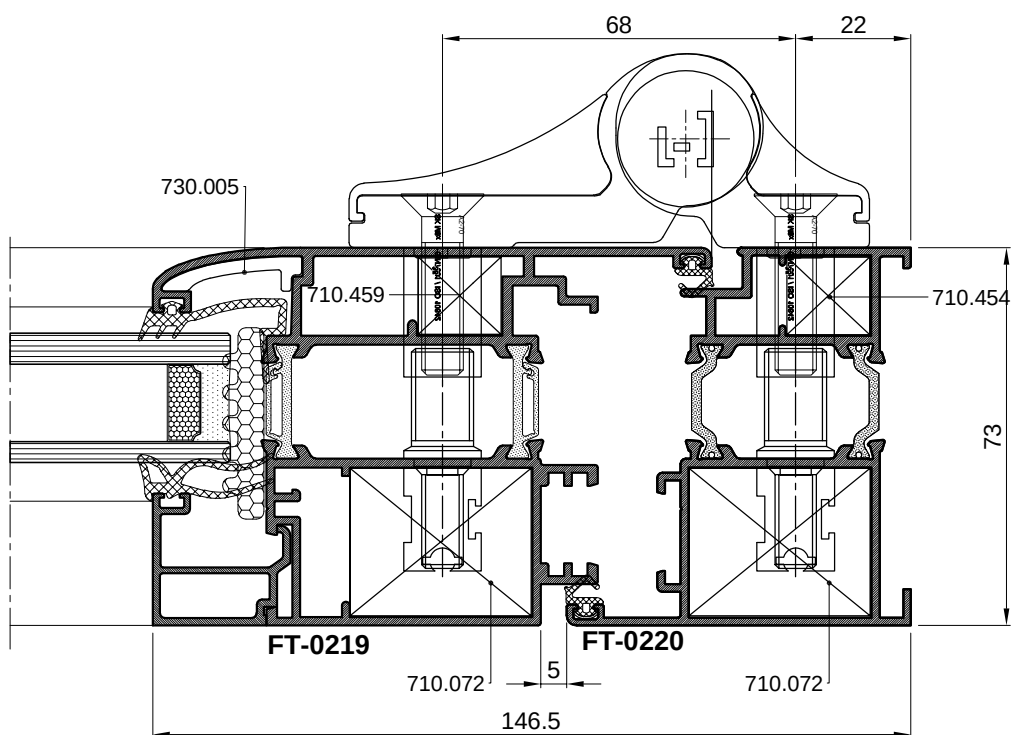
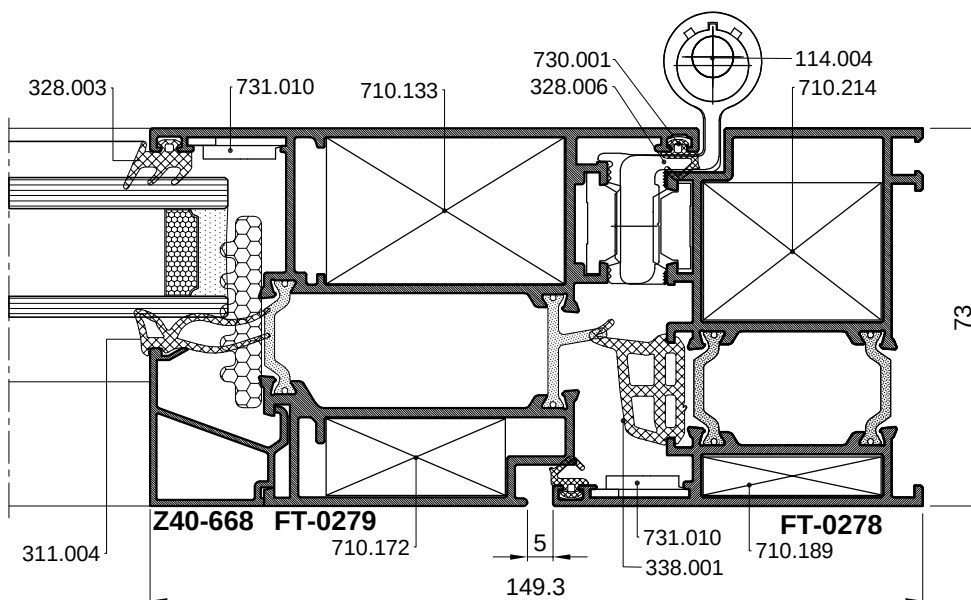
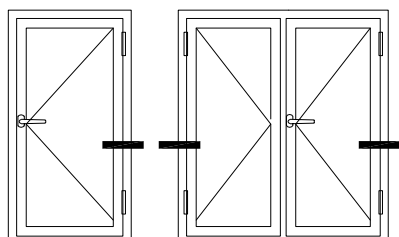


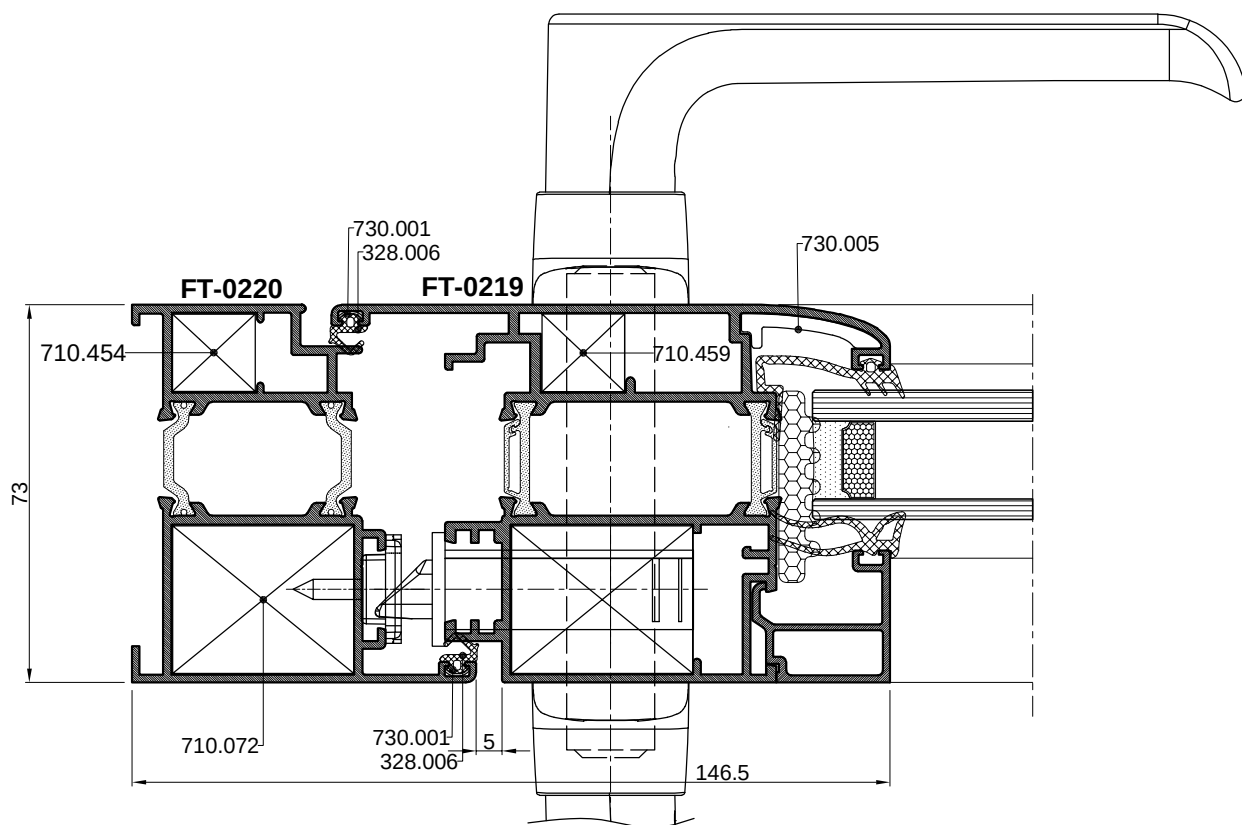
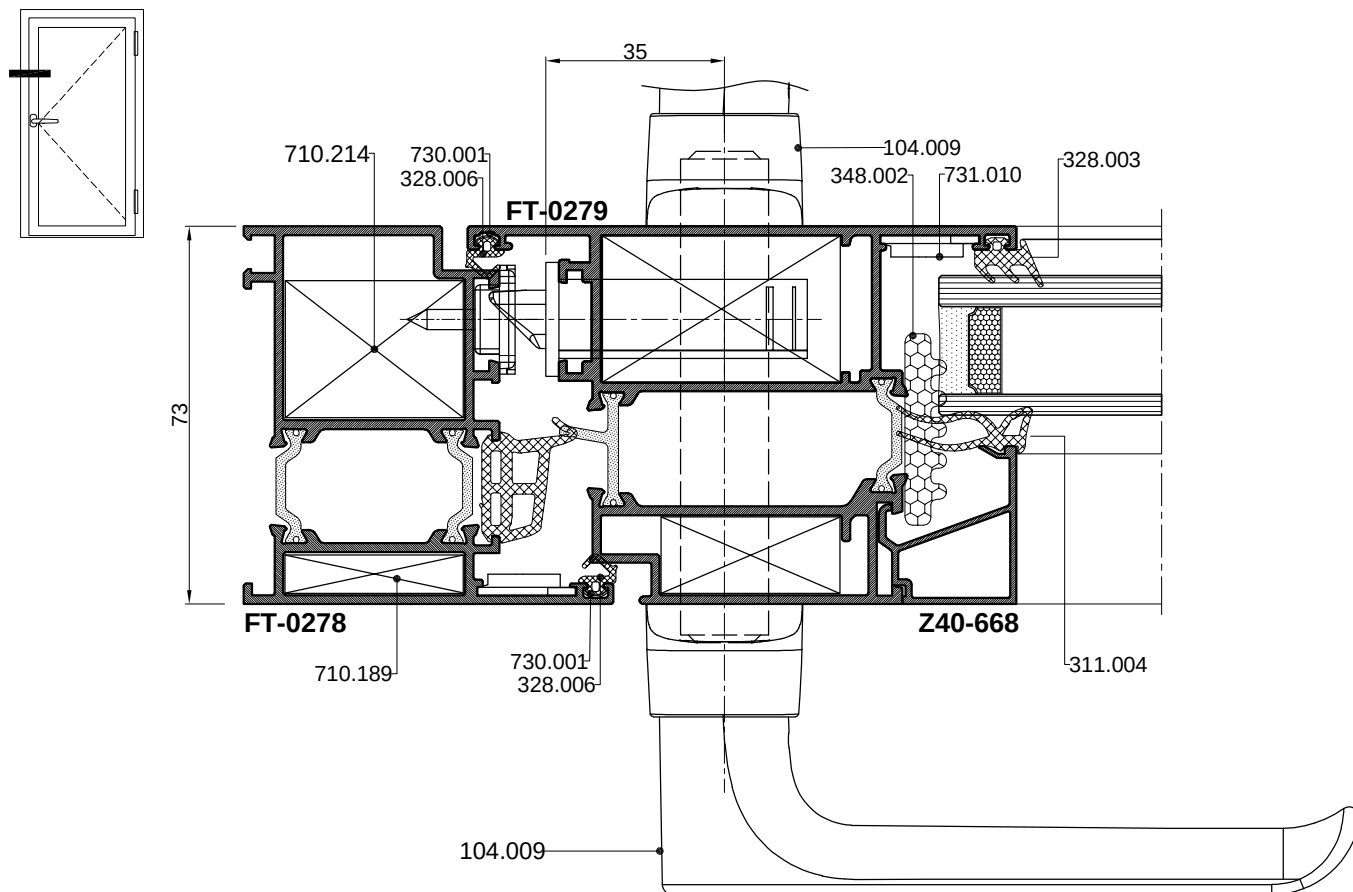


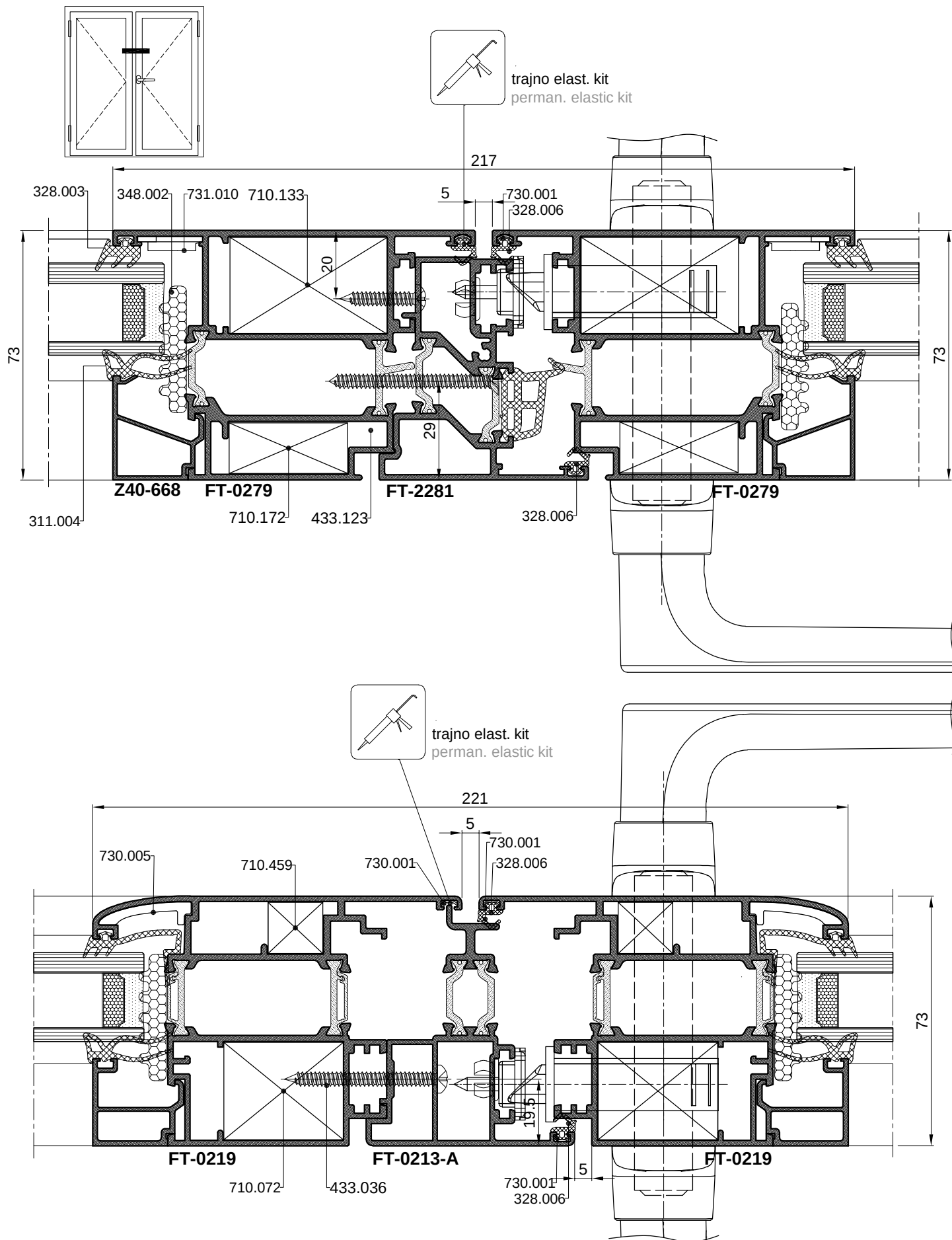


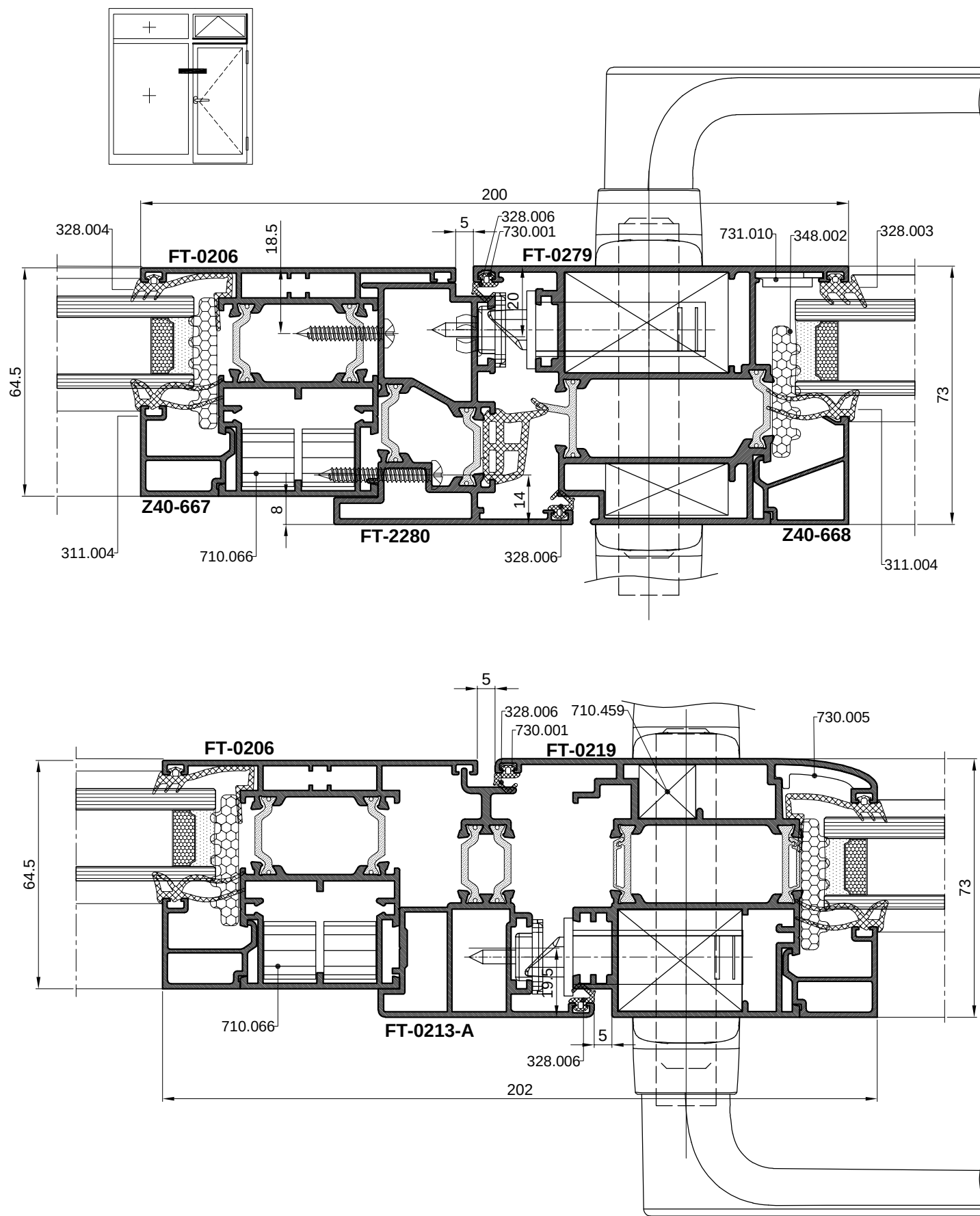


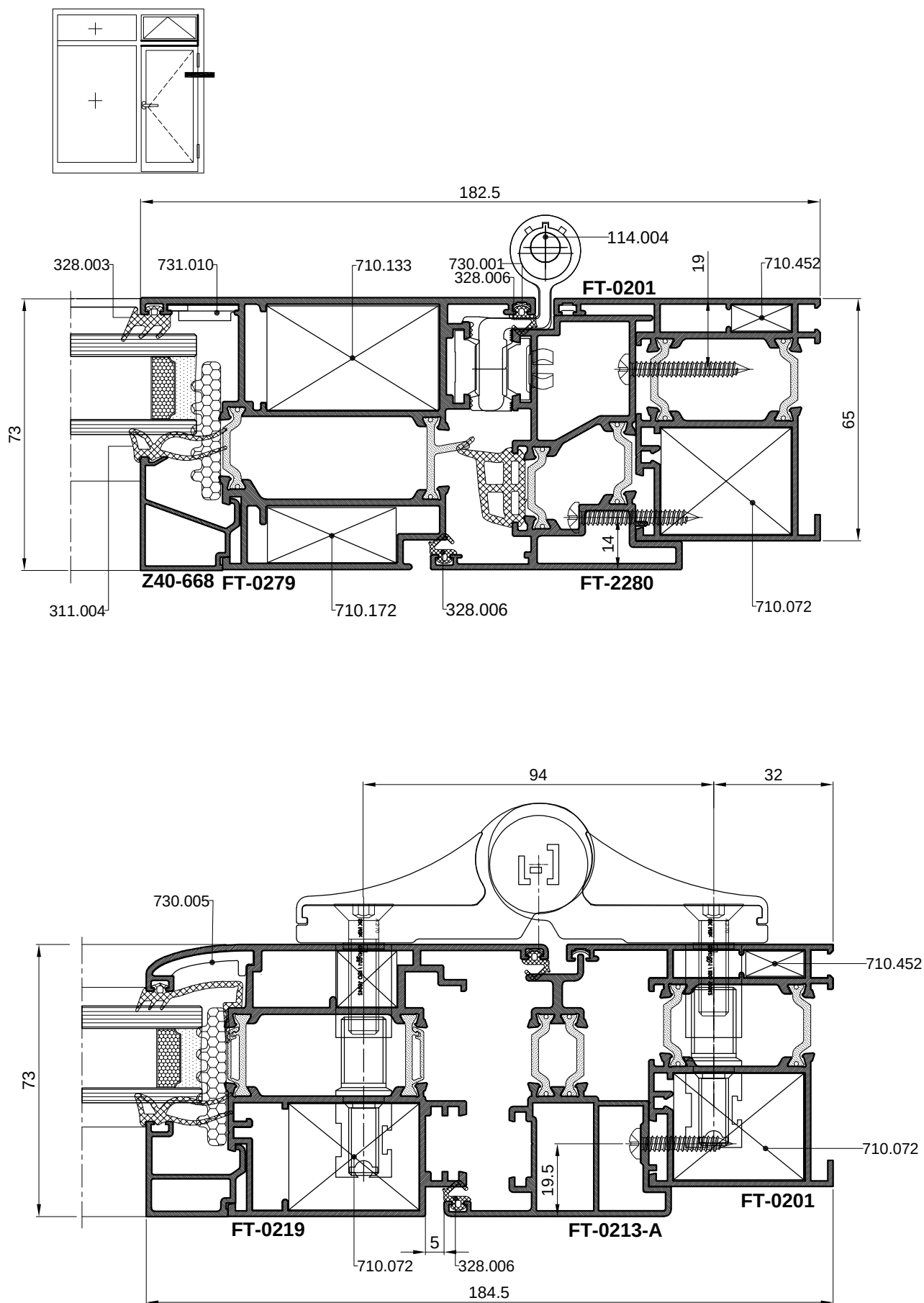




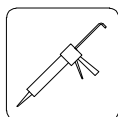
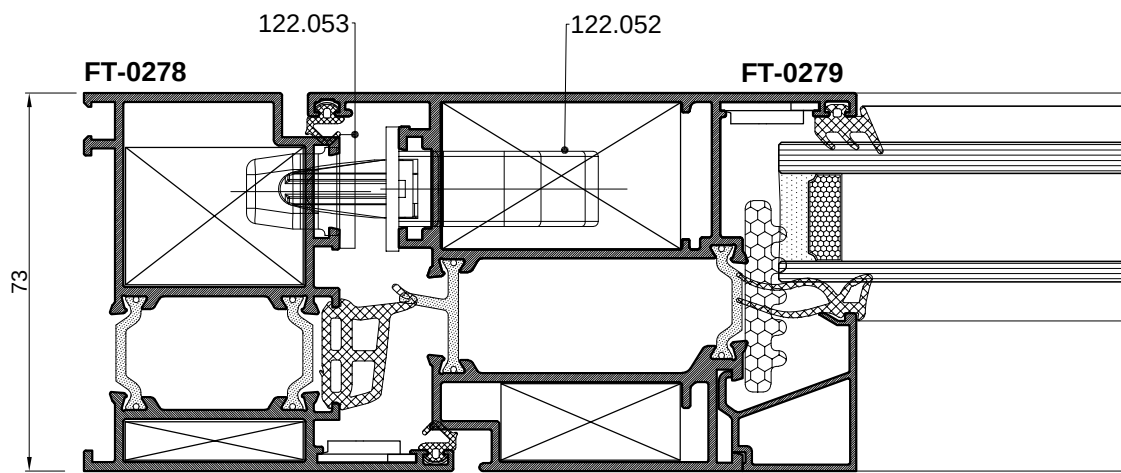
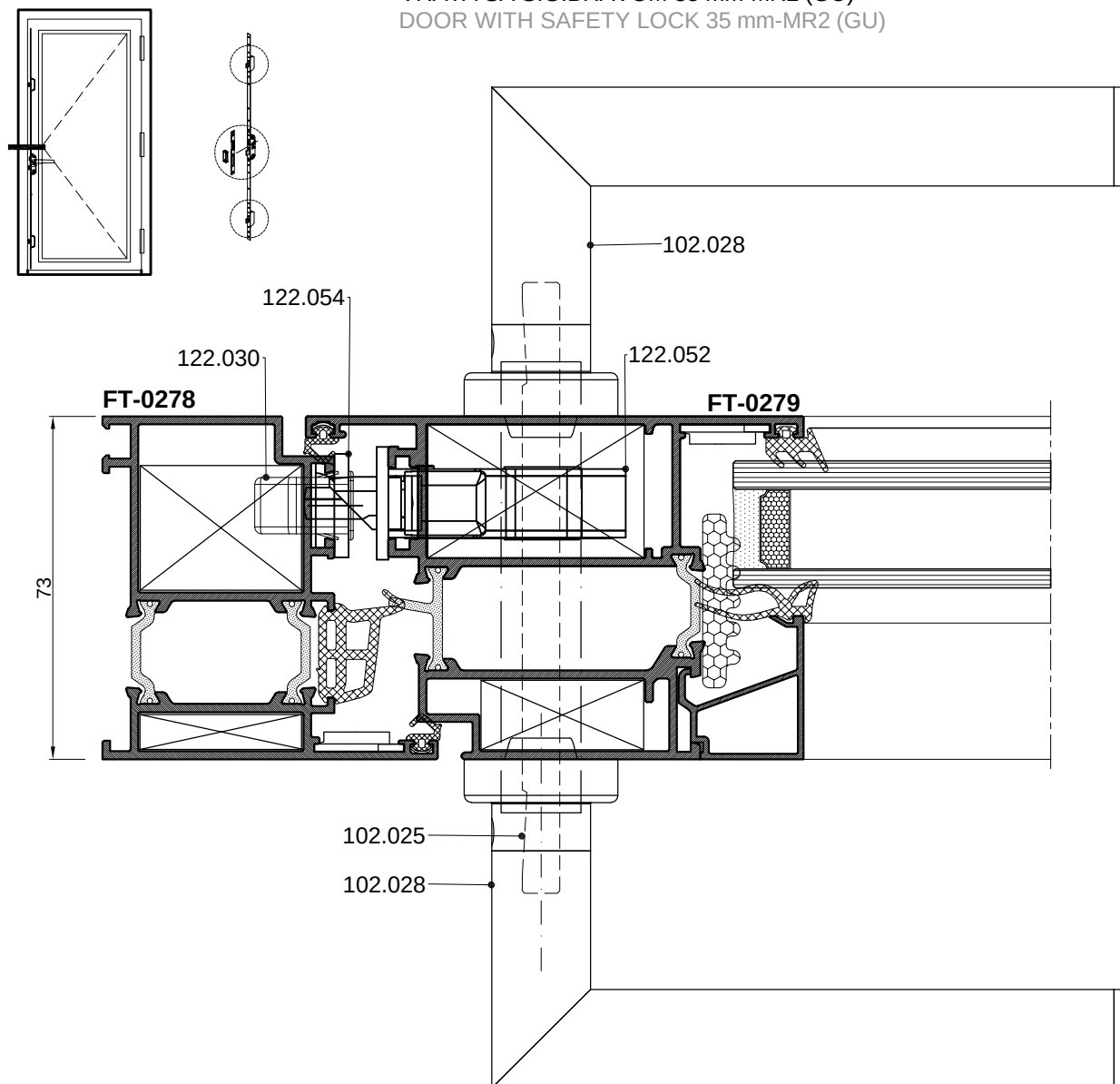






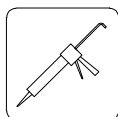
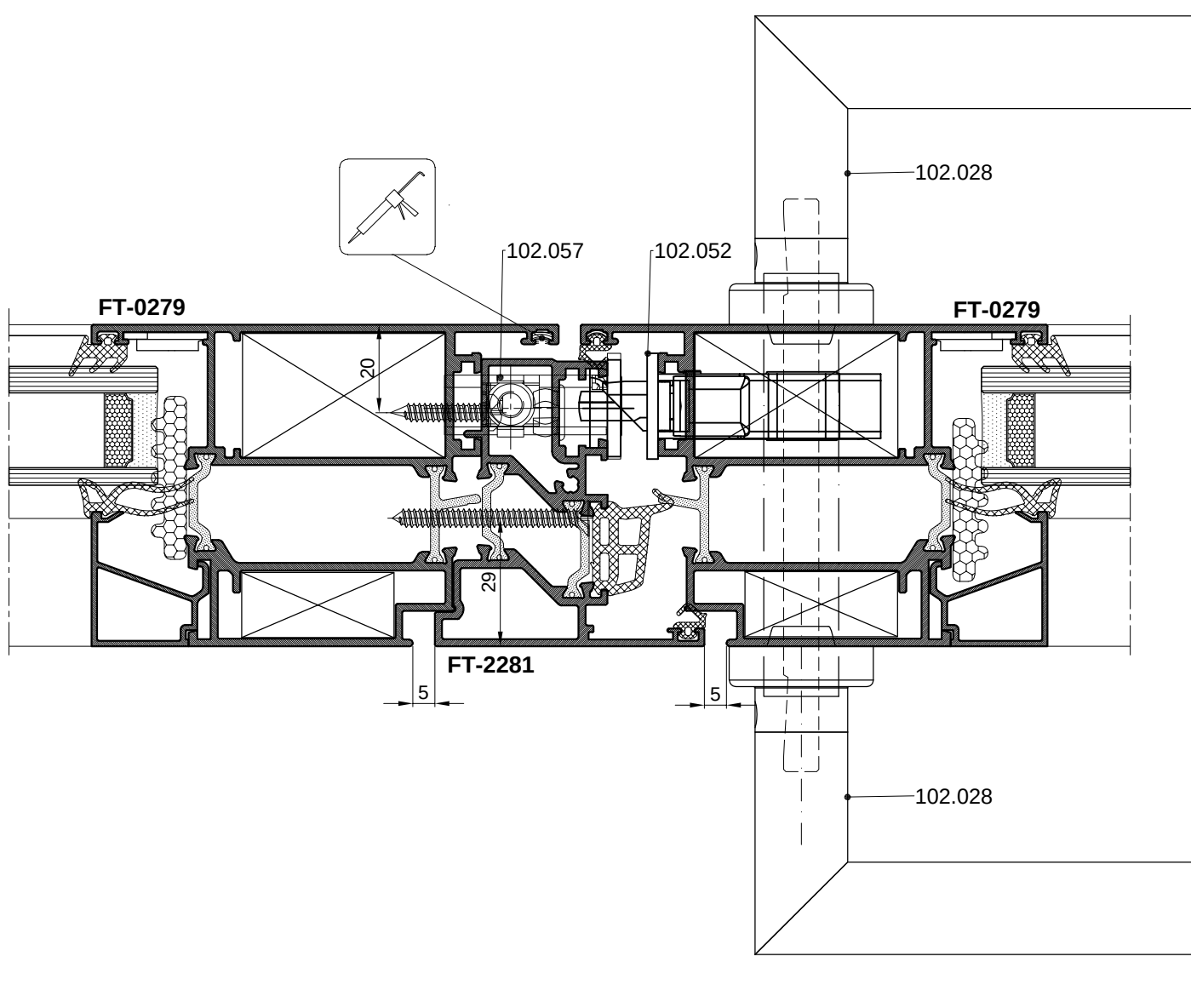
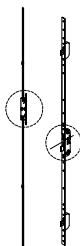
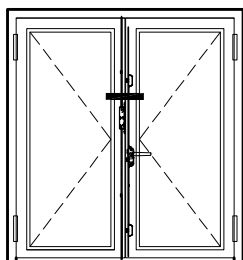


VRATA SA SIG.BRAVOM 35 mm-MR2 (GU)
DOOR WITH SAFETY LOCK 35 mm-MR2 (GU)

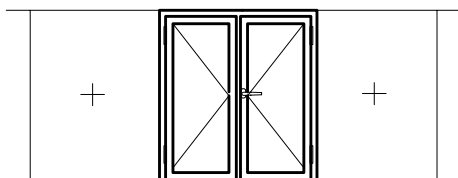
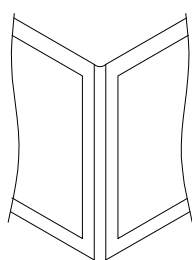
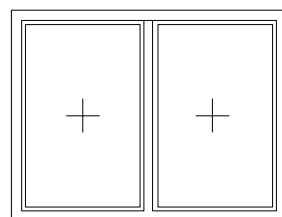
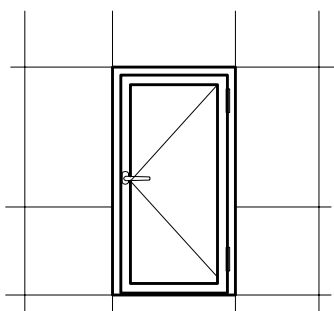
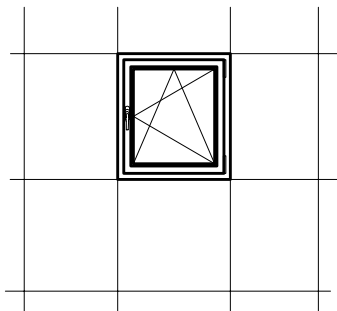


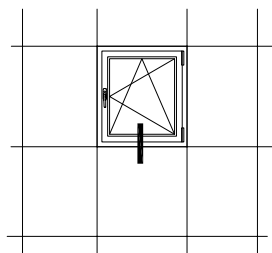
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

VRATA SA SIG. BRAVOM 35 mm-MR2 (GU)
DOOR WITH SAFETY LOCK 35 mm-MR2 (GU)

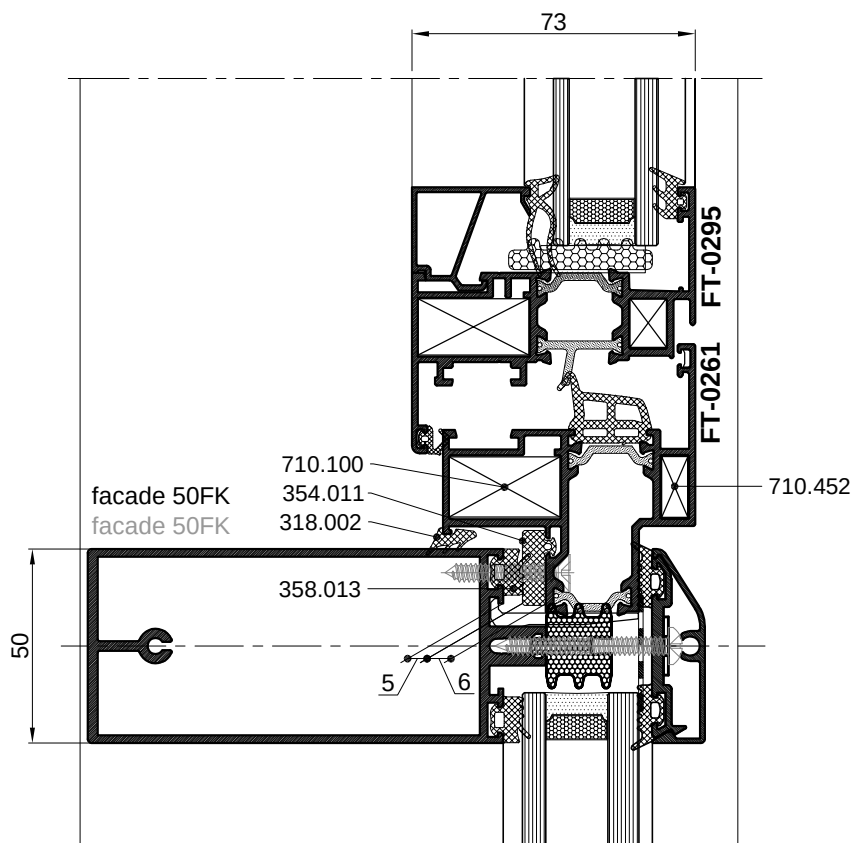
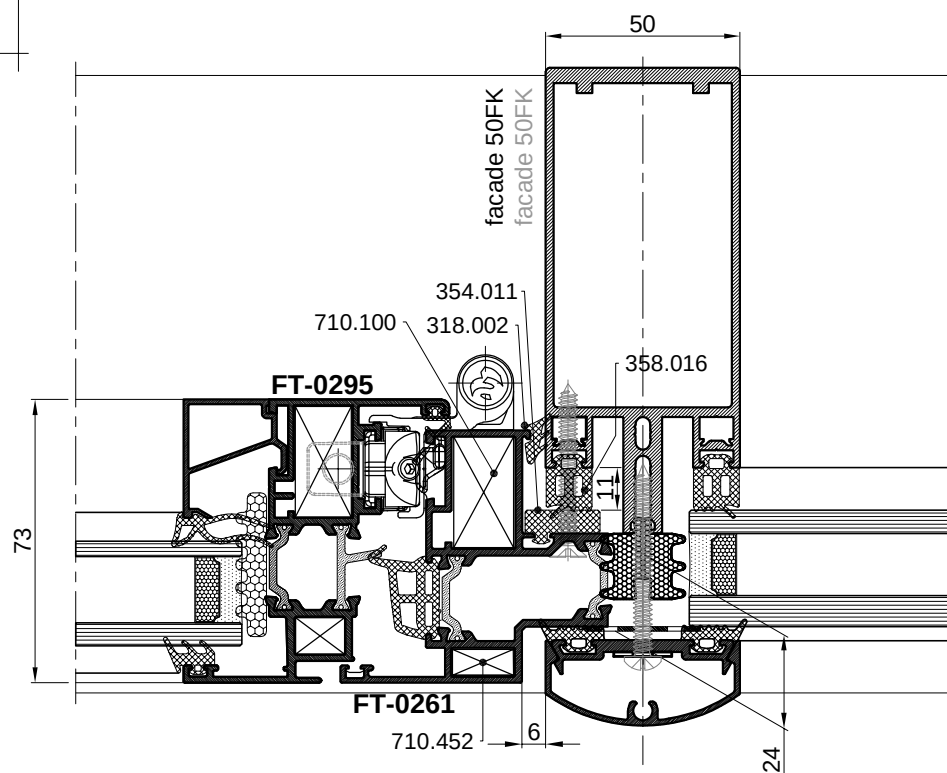


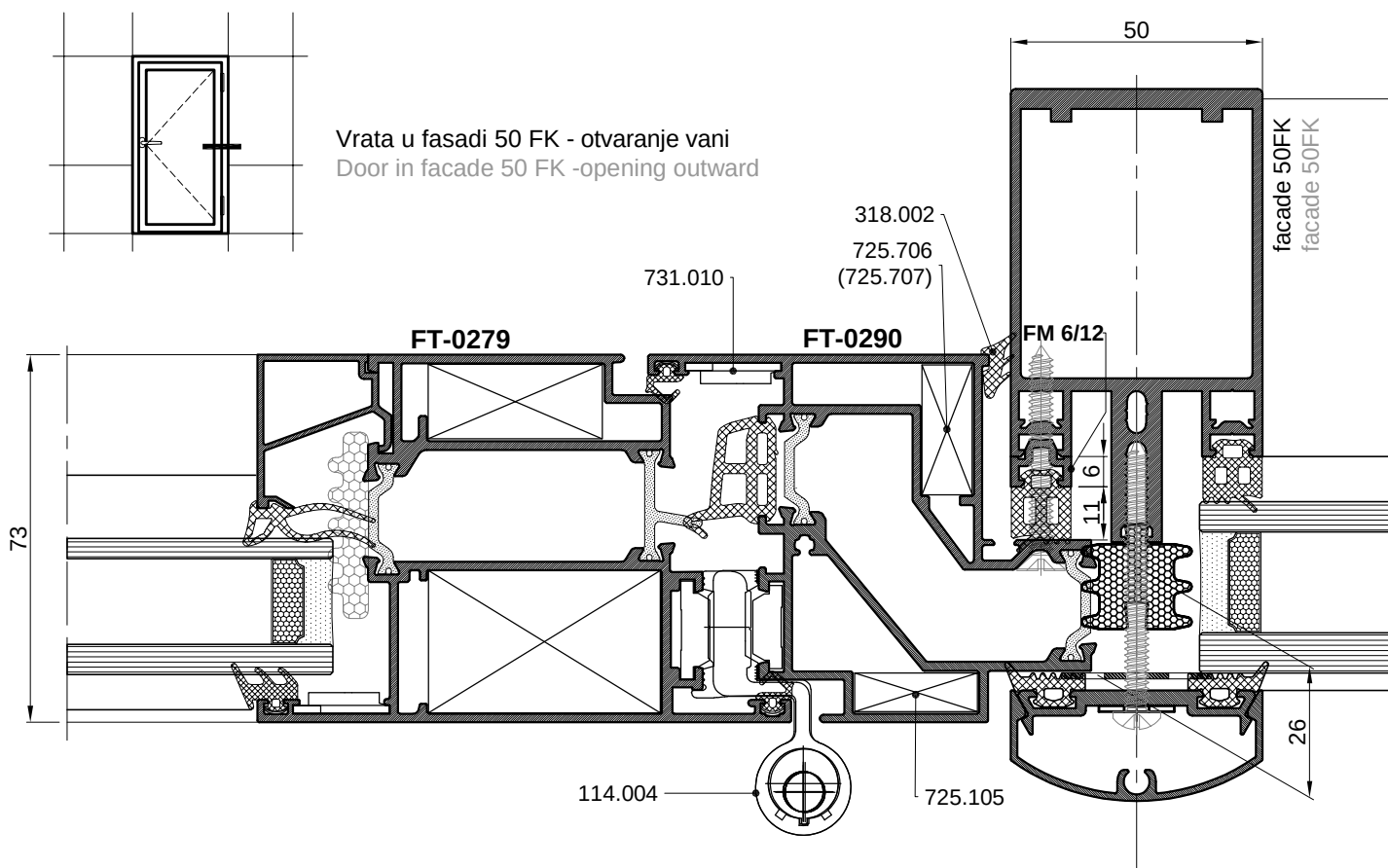
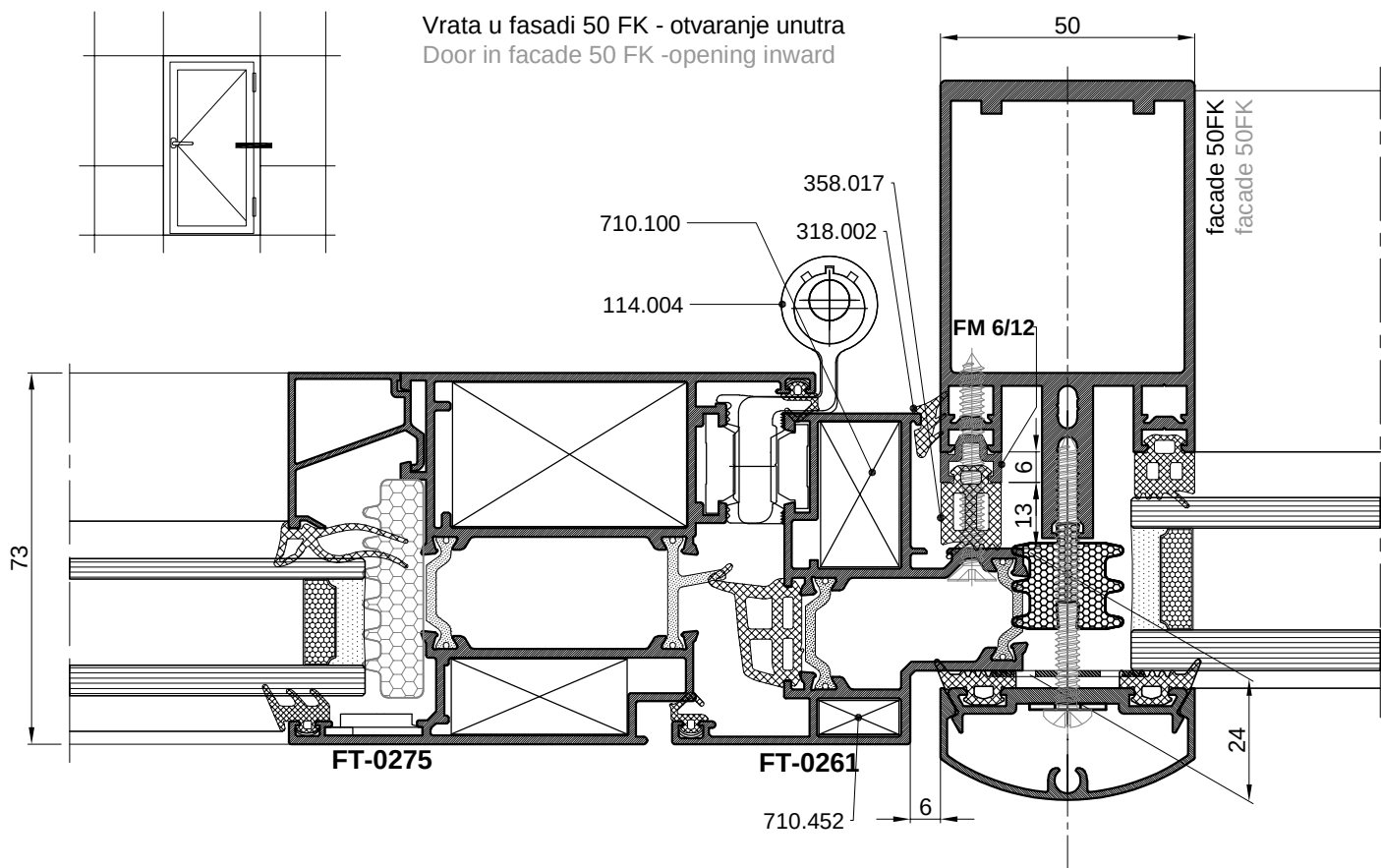
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

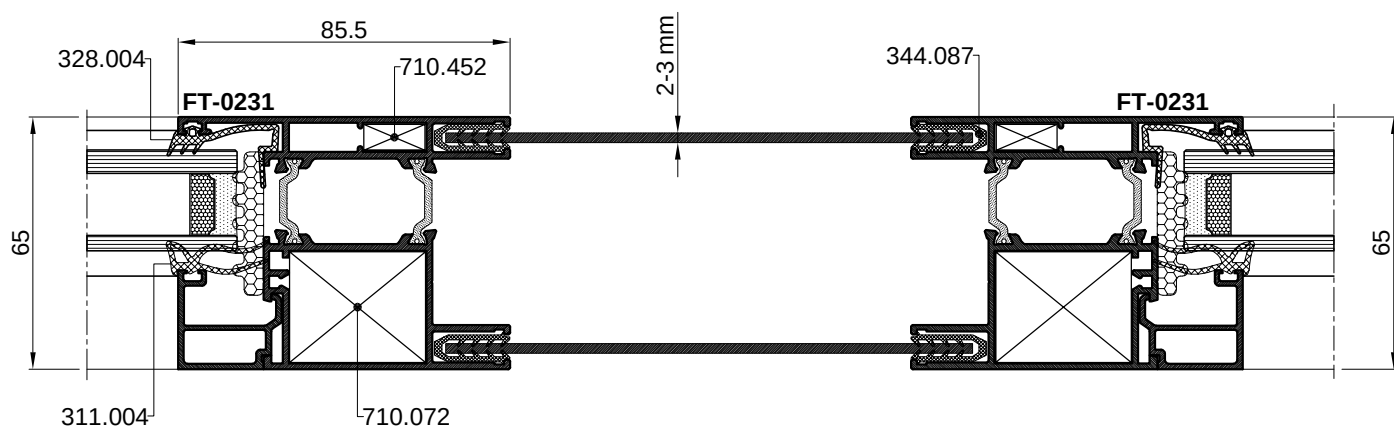
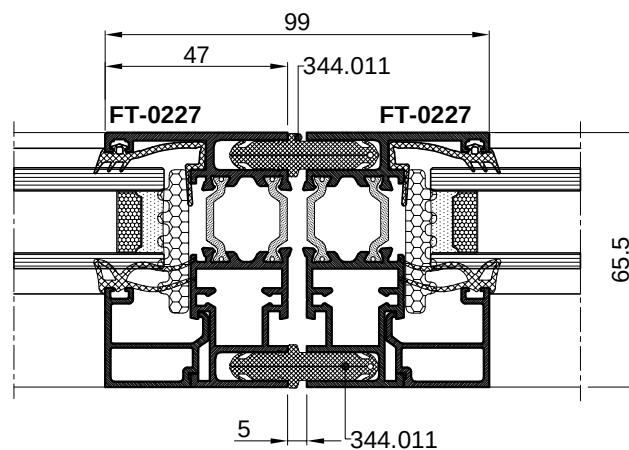
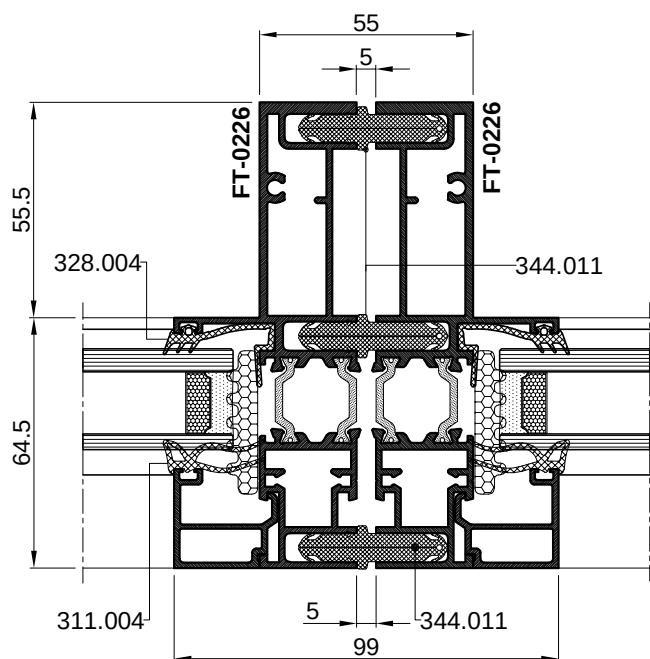
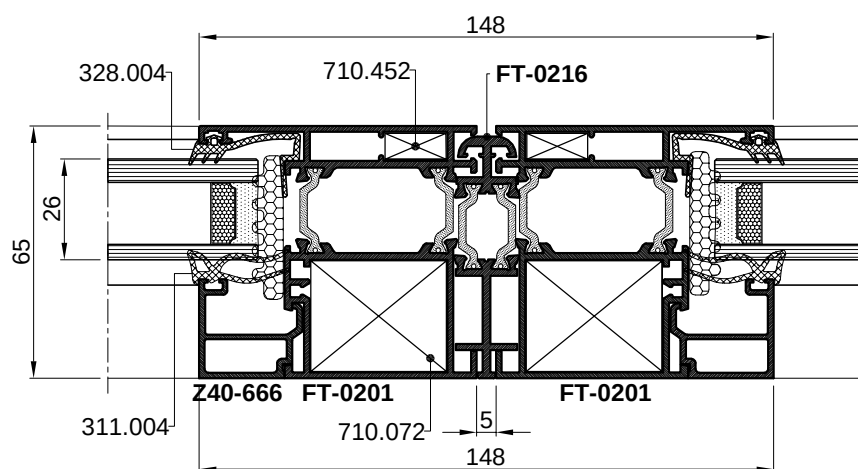
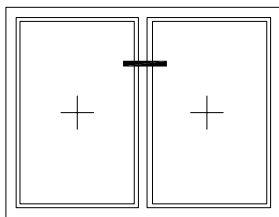


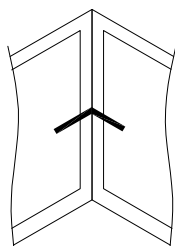


Prozor u fasadi 50 FK
Window in facade 50 FK

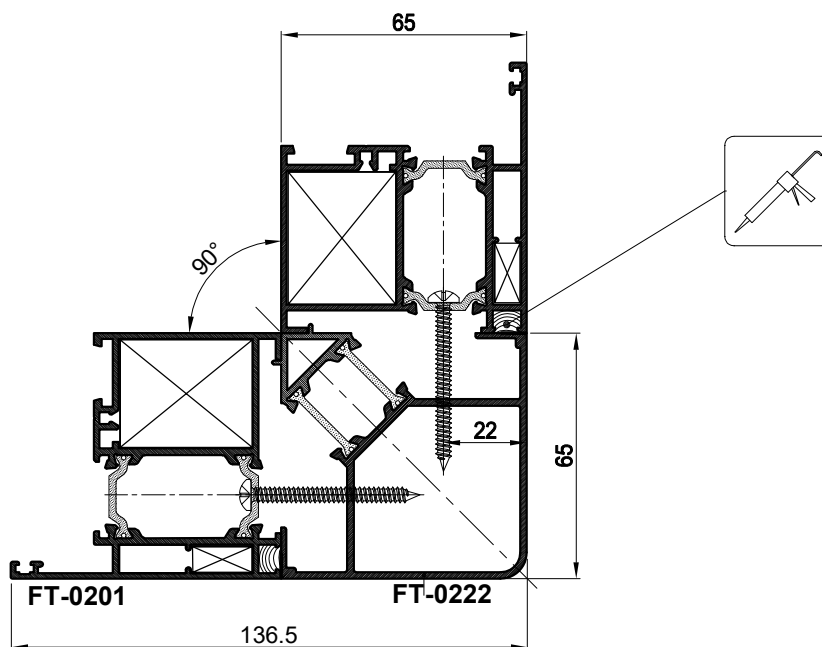




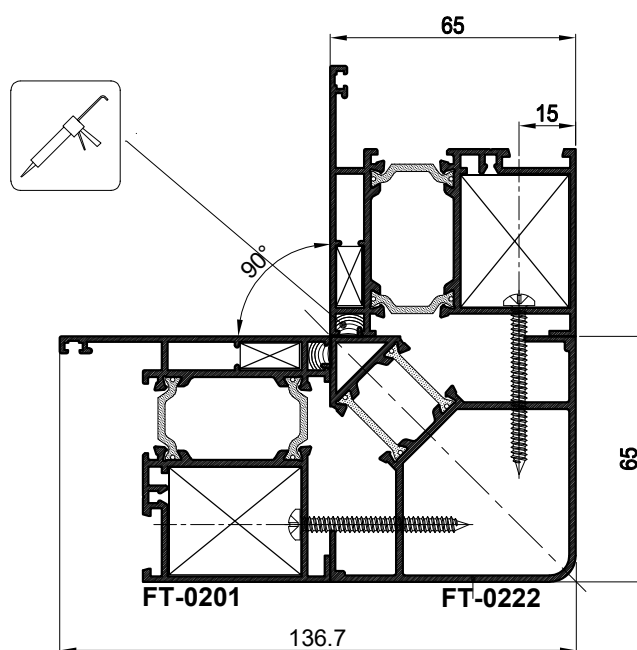




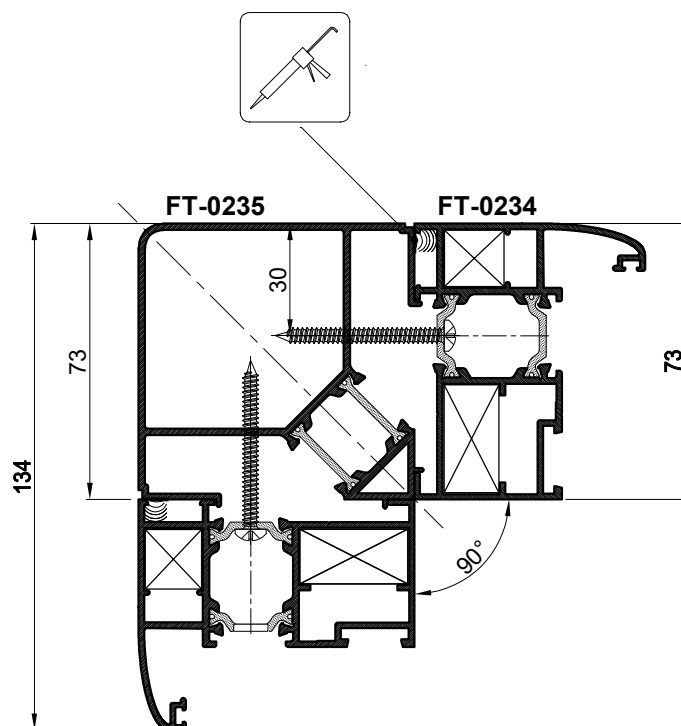
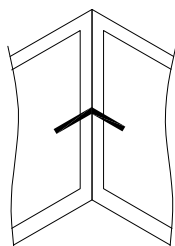
KUT 90° - PREMA VANI
CORNER 90° - TO OUTSIDE



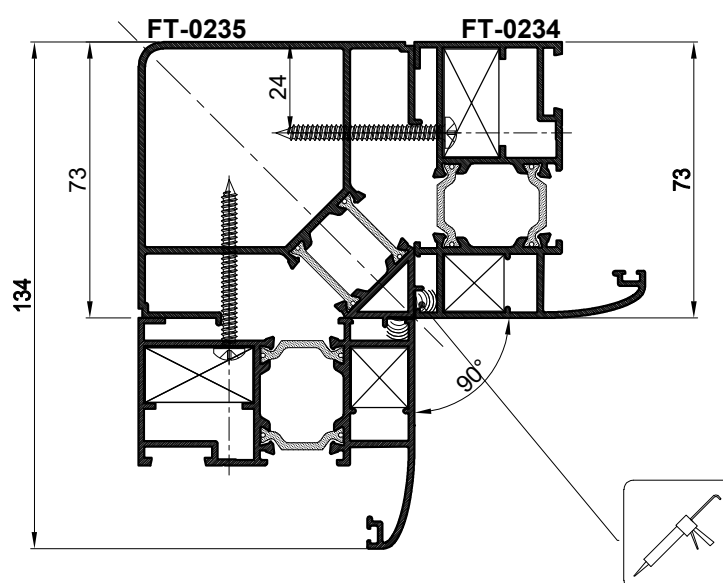
KUT 90° - PREMA UNUTRA
CORNER 90° - TO INSIDE

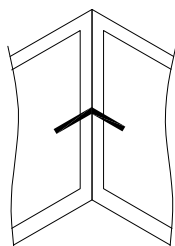


KUT 90° - PREMA VANI
CORNER 90° - TO OUTSIDE

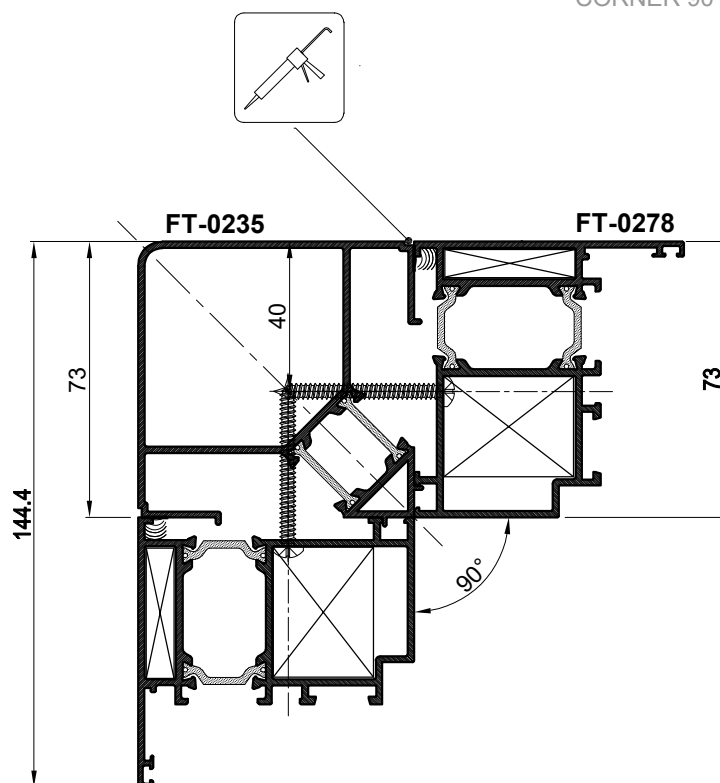


KUT 90° - PREMA UNUTRA
CORNER 90° - TO INSIDE

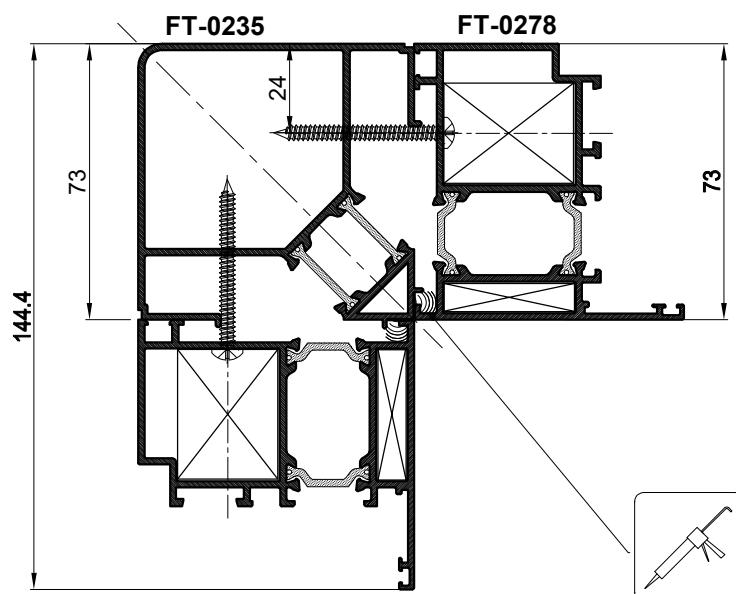


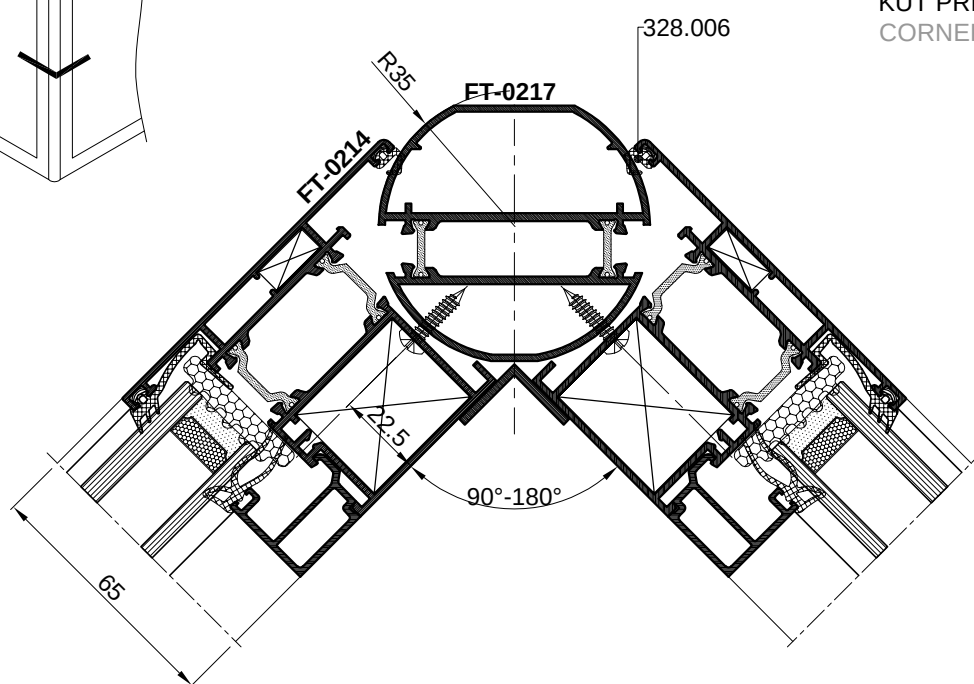
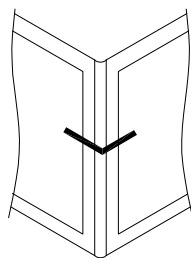


KUT 90° - PREMA VANI
CORNER 90° - TO OUTSIDE

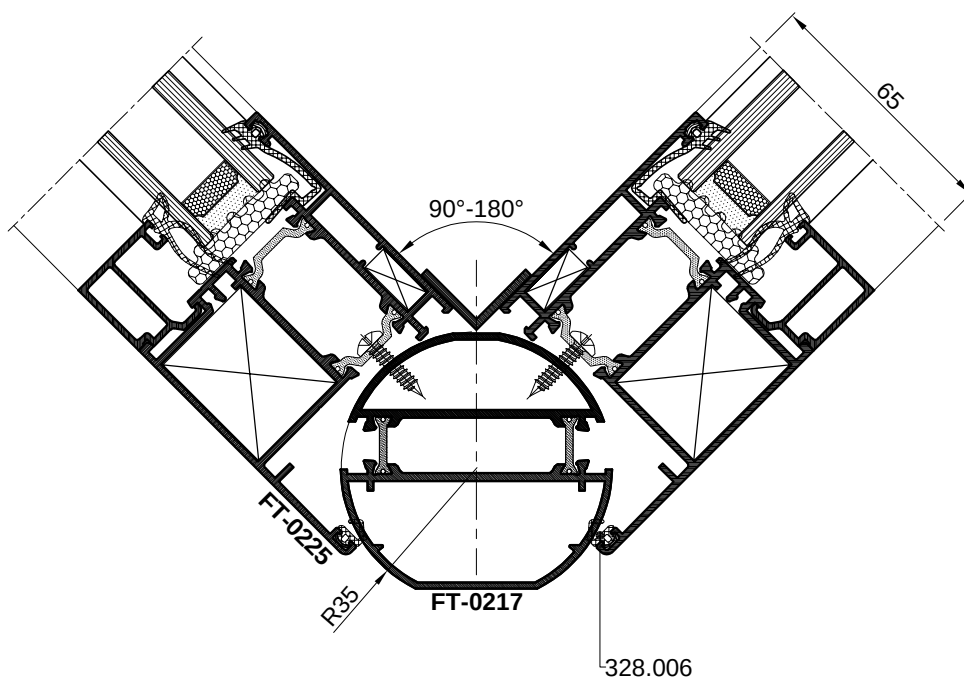


KUT 90° - PREMA UNUTRA
CORNER 90° - TO INSIDE



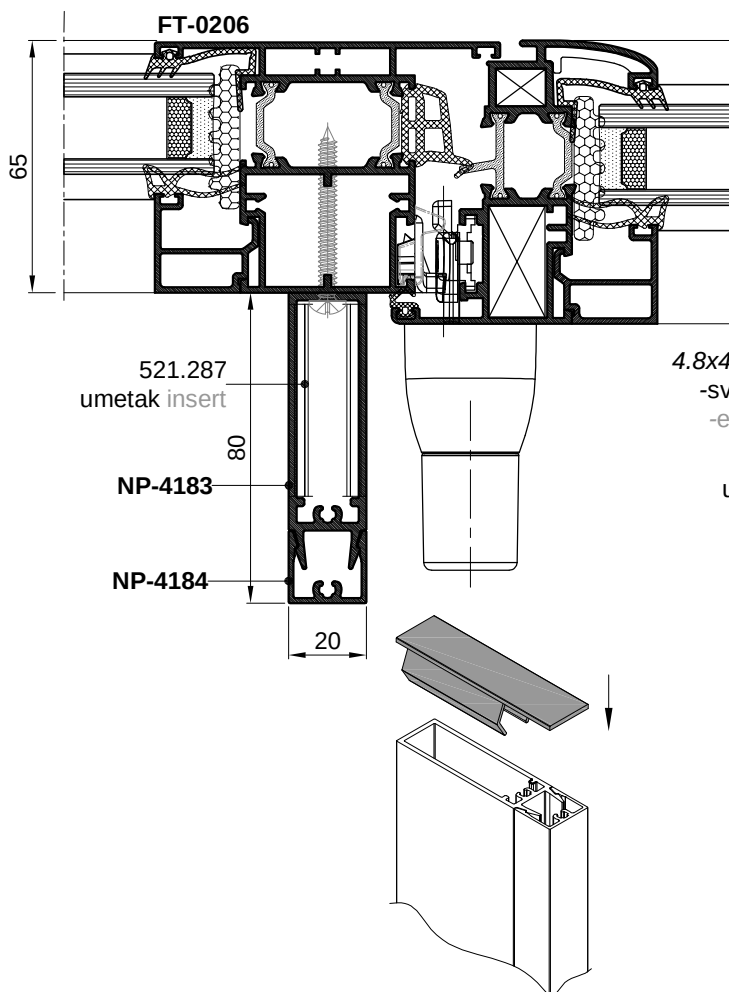


KUT PREMA VANI
CORNER TO OUTSIDE

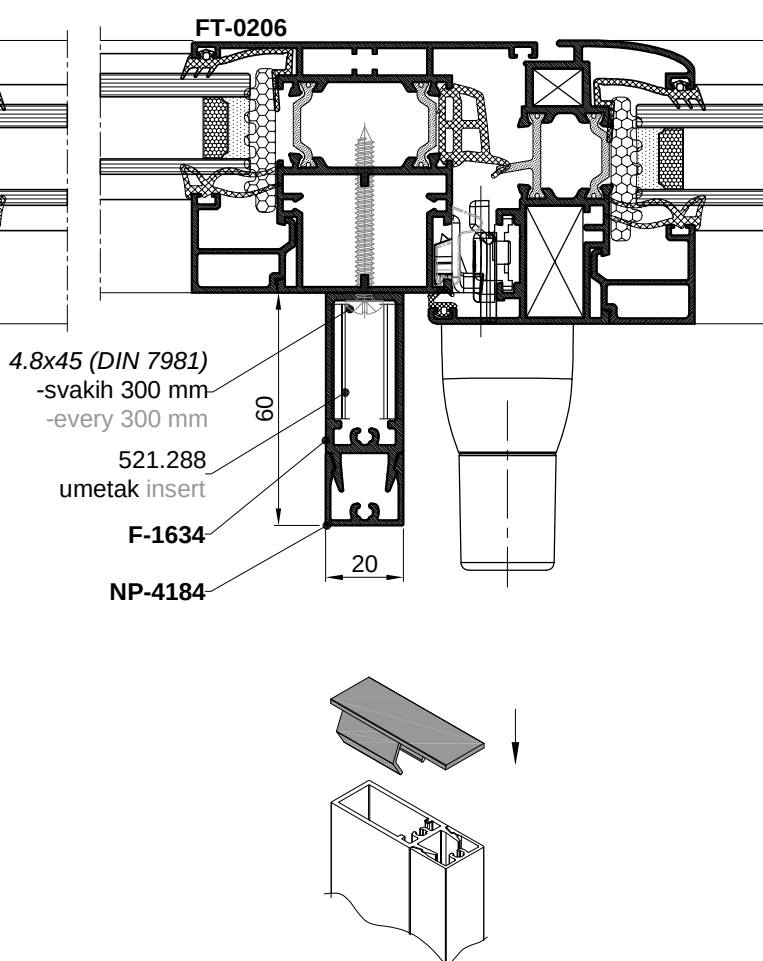


KUT PREMA UNUTRA
CORNER TO INSIDE

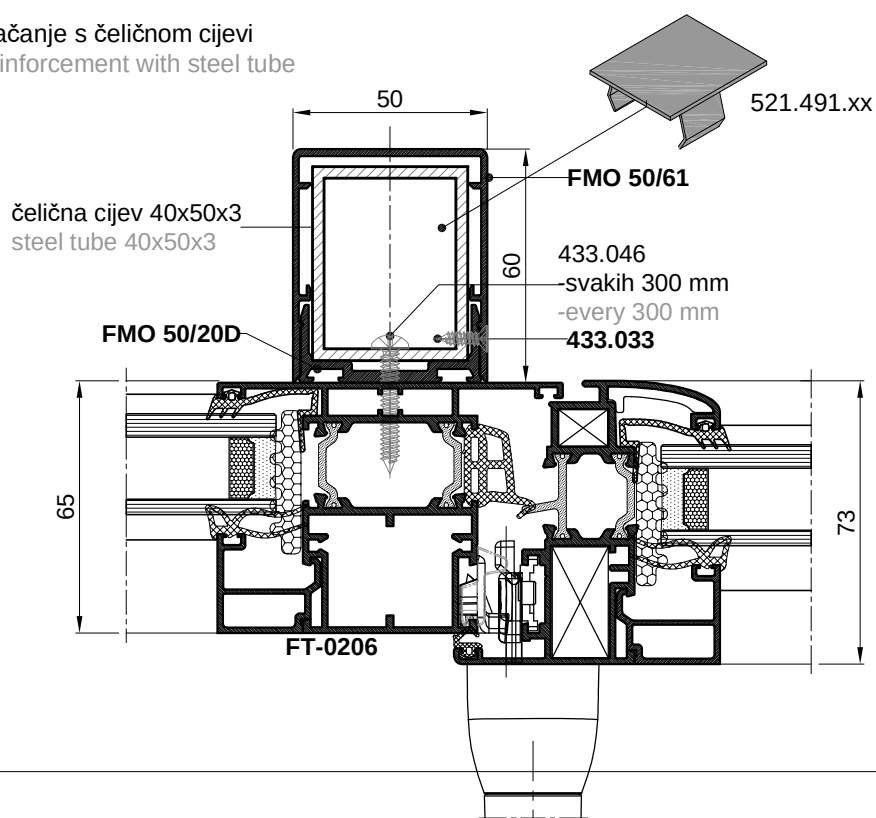
Ojačanje 80 mm
Reinforcement 80 mm



Ojačanje 60 mm
Reinforcement 60 mm

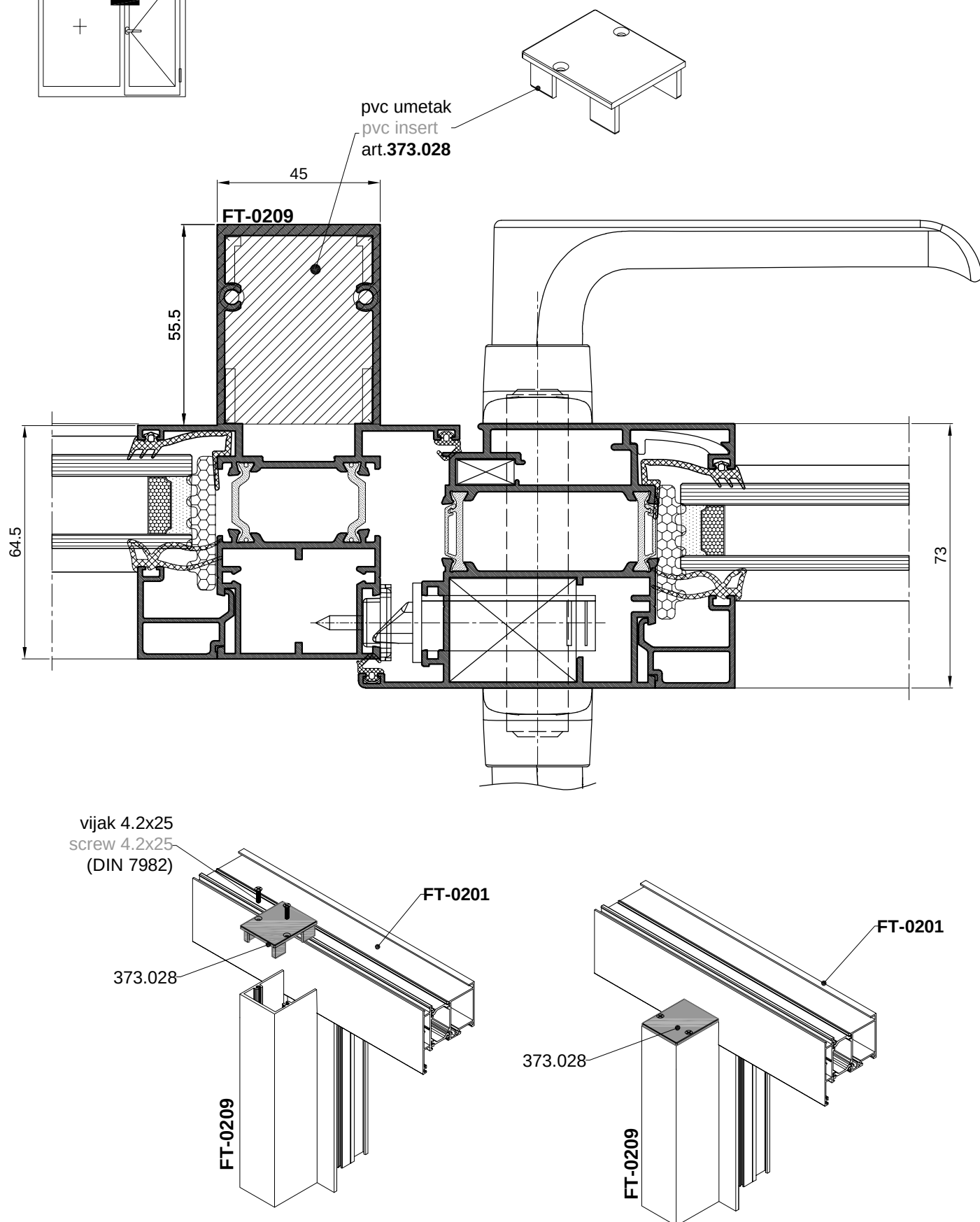


Ojačanje s čeličnom cijevi
Reinforcement with steel tube

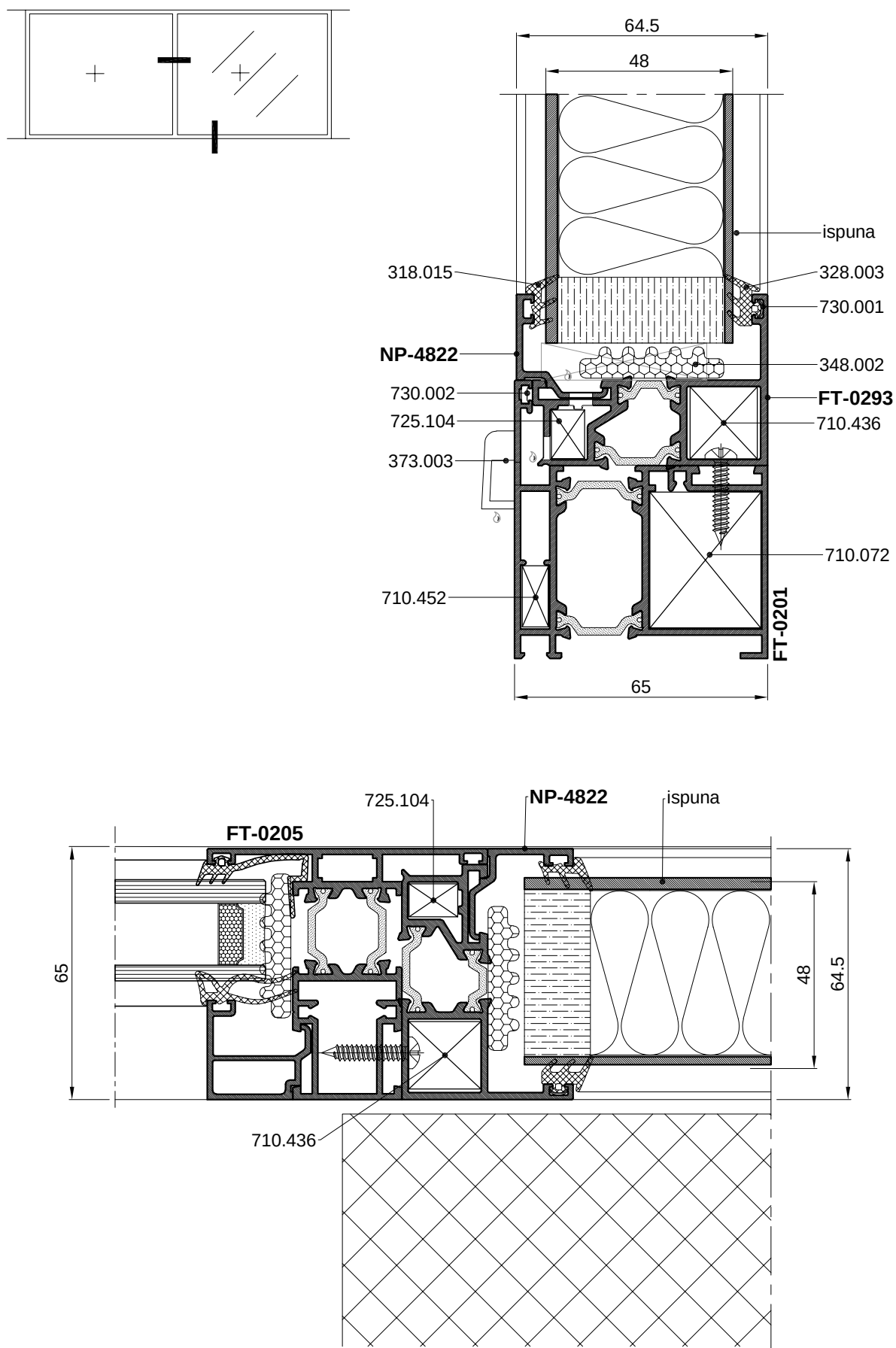


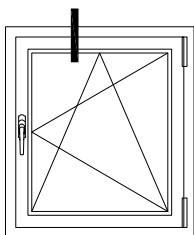
-Profil FMO 50/61 (maska ojačanja) mora biti 50 mm duži od profila ojačanja.
-FMO 50/61 profile (reinforcement mask) must be 50 mm longer than the reinforcement profile.

Ojačani profil FT-0209 s umetkom 373.028
Reinforcement profile FT-0209 with insert 373.028

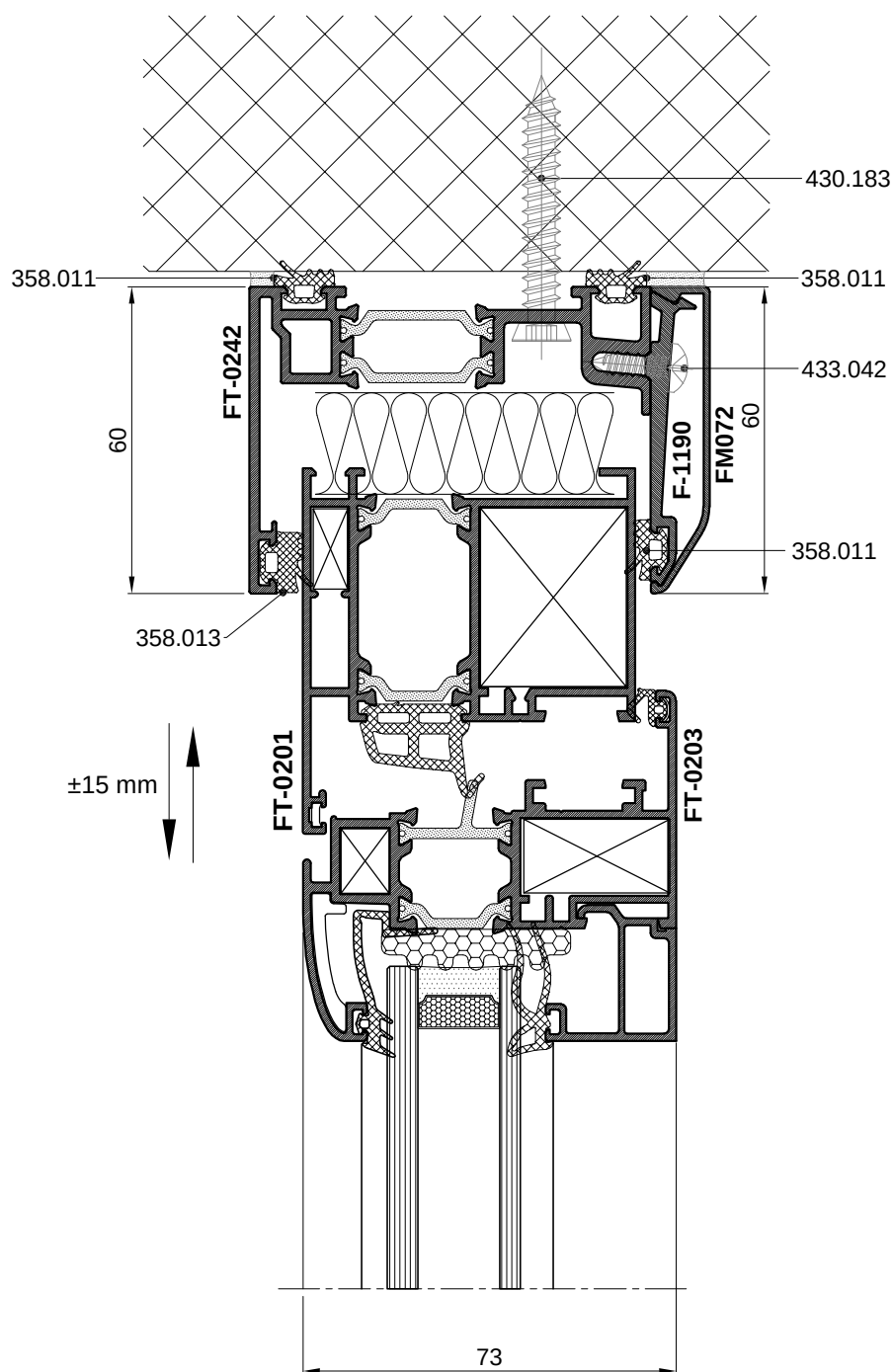


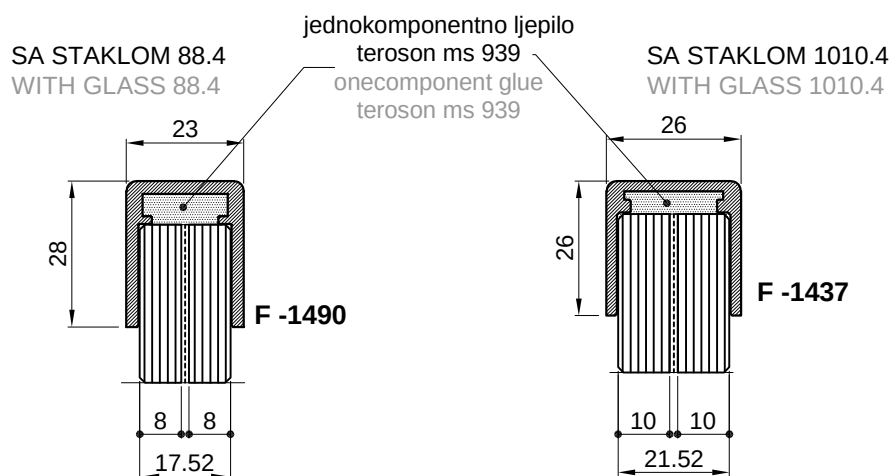
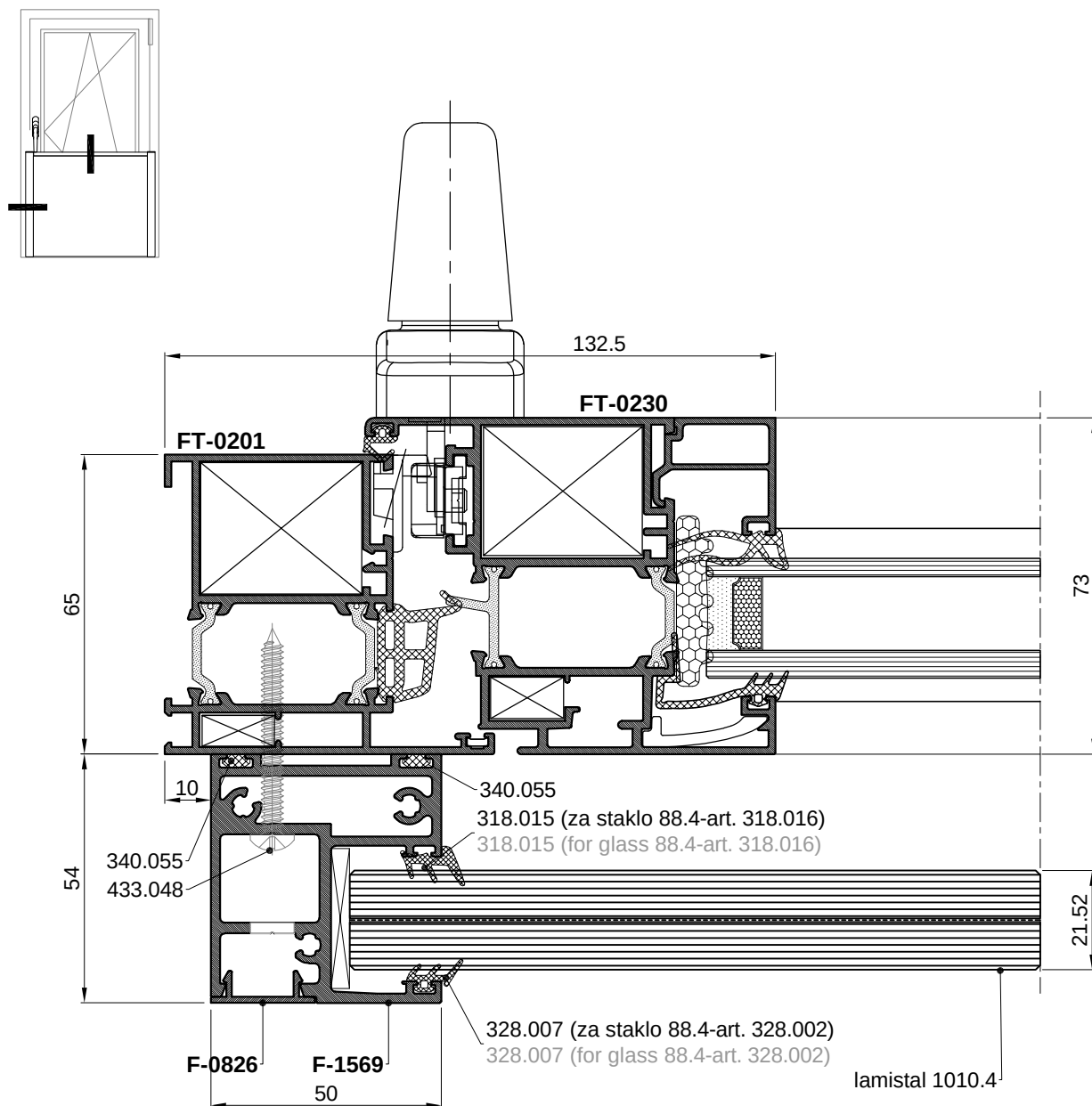
Detalj ostakljivanja s vanjske strane
Detail of glazing on the outside

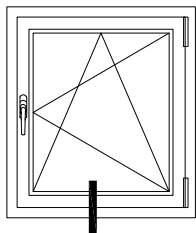




PROFIL ZA UGRADNJU
INSTALLATION PROFILE



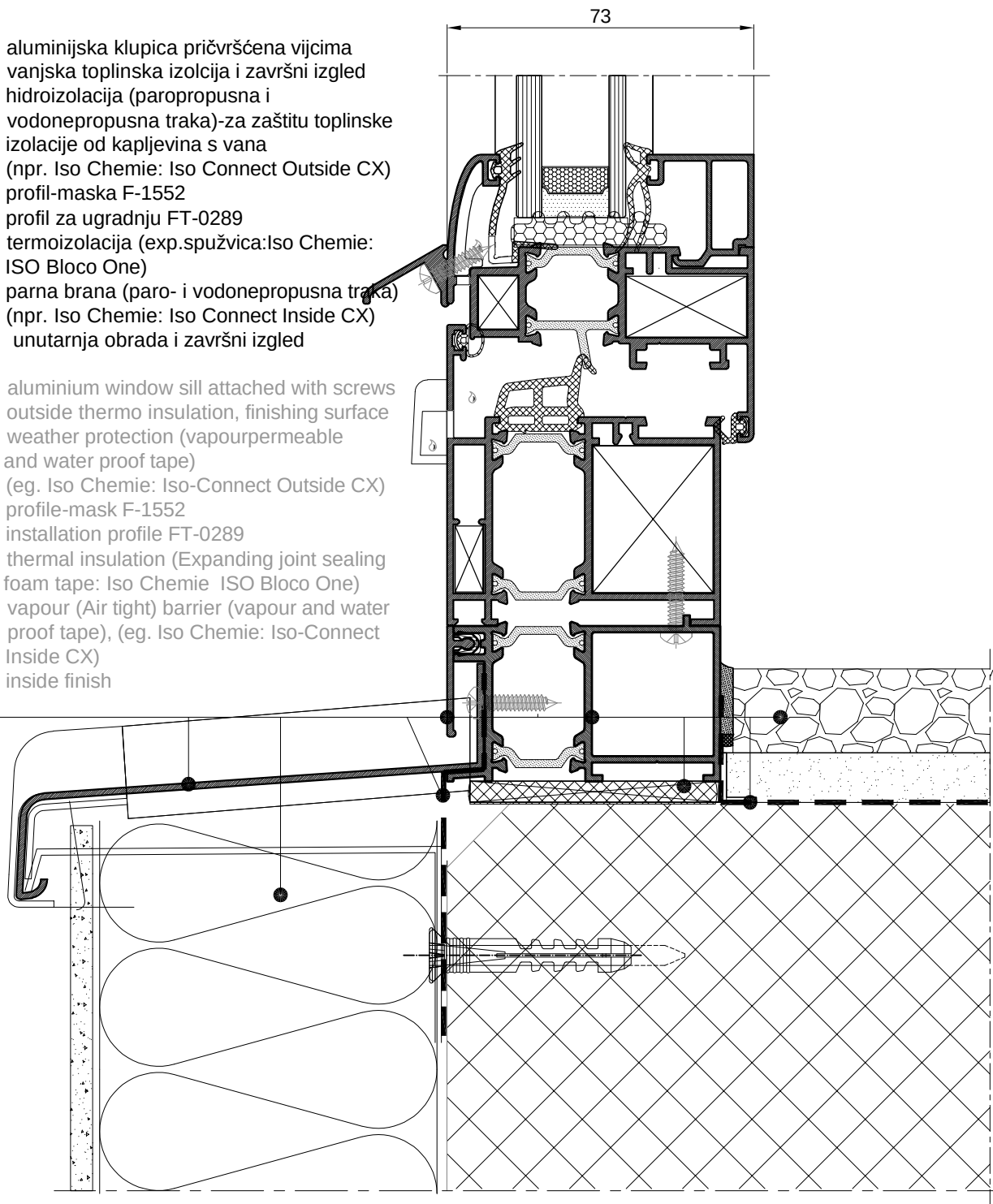


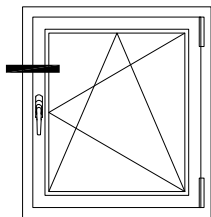


Ugradnja prema RAL standardu
Installation for RAL standards

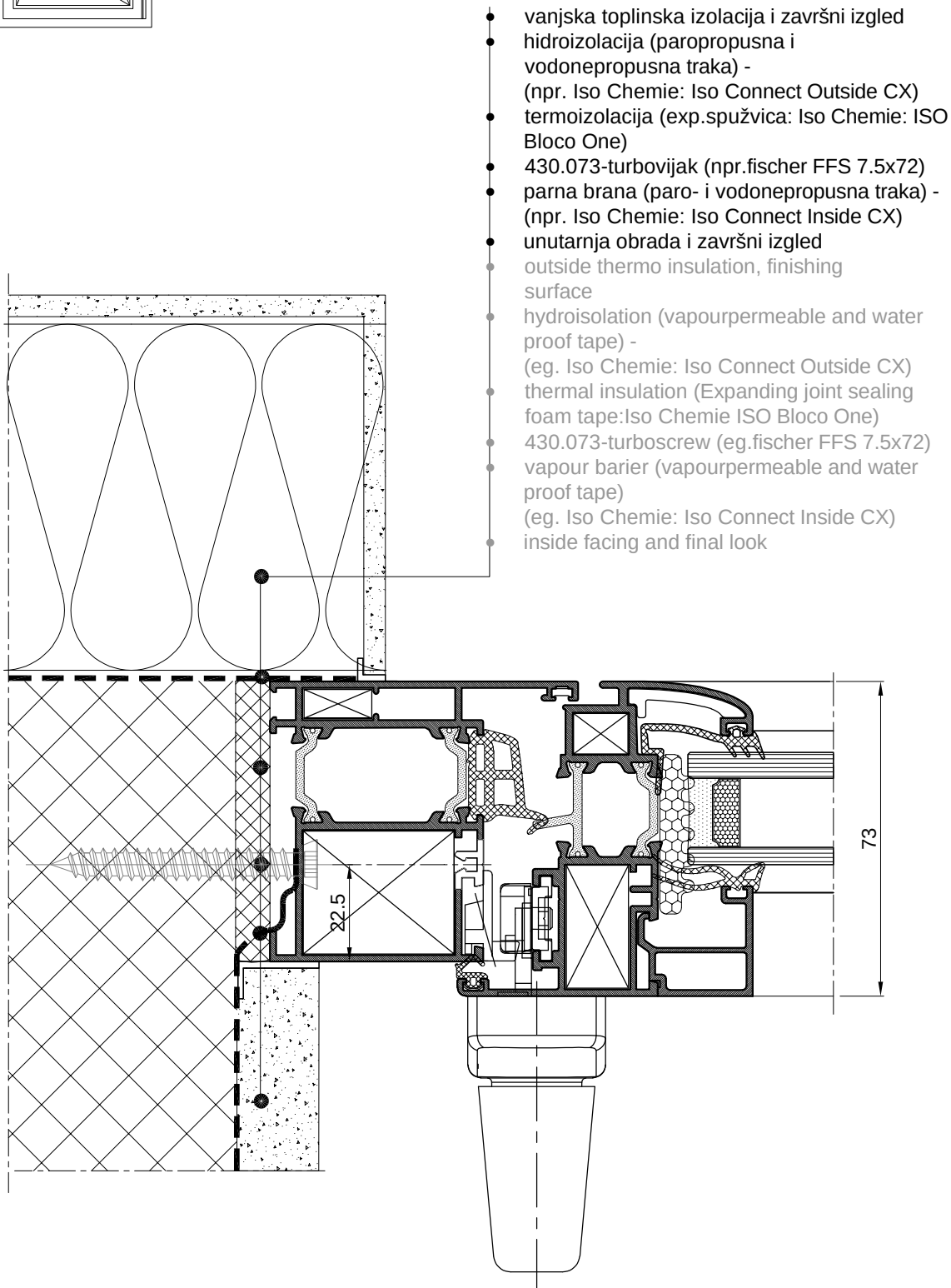
- aluminijska klupica pričvršćena vijcima
- vanjska toplinska izolacija i završni izgled
- hidroizolacija (paropropusna i vodonepropusna traka)-za zaštitu toplinske izolacije od kapljevina s vana (npr. Iso Chemie: Iso Connect Outside CX)
- profil-mask F-1552
- profil za ugradnju FT-0289
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled

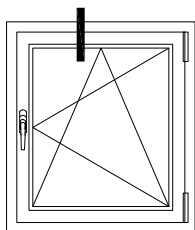
- aluminium window sill attached with screws
- outside thermo insulation, finishing surface
- weather protection (vapourpermeable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- profile-mask F-1552
- installation profile FT-0289
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- inside finish



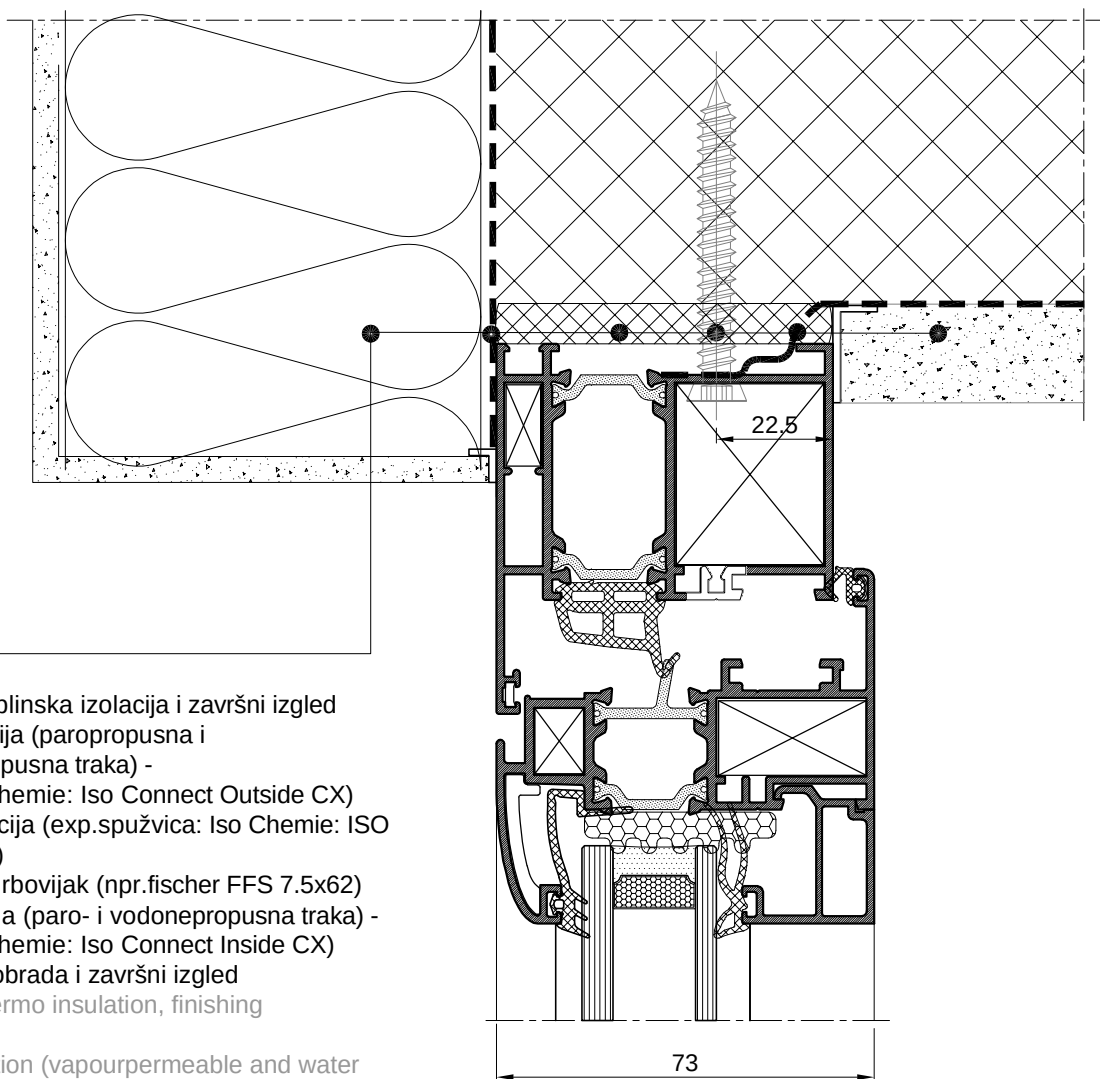


Ugradnja prema RAL standardu
Installation for RAL standards

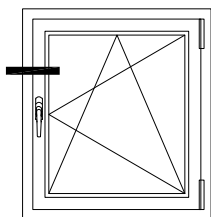




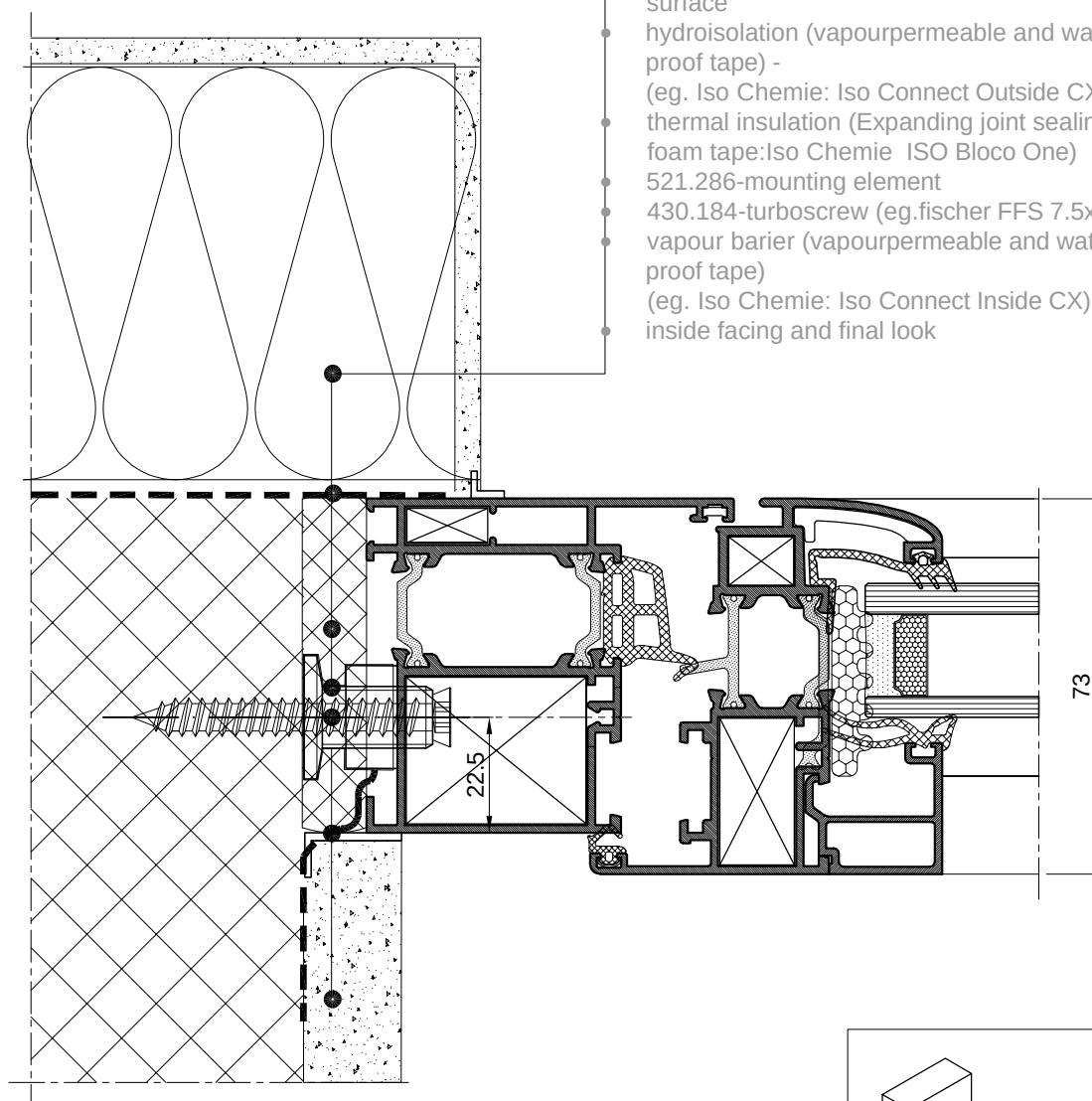
Ugradnja prema RAL standardu
Installation for RAL standards



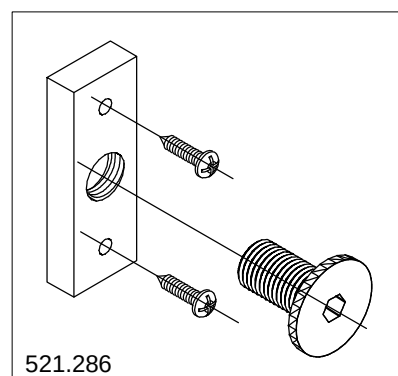
- vanjska toplinska izolacija i završni izgled
- hidroizolacija (paropropusna i vodonepropusna traka) -
(npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- 430.184-turbovijak (npr.fischer FFS 7.5x62)
- parna brana (paro- i vodonepropusna traka) -
(npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled
- outside thermo insulation, finishing surface
- hydroisolation (vapourpermeable and water proof tape)
(eg. Iso Chemie: Iso Connect Outside CX)
- thermal insulation (Expanding joint sealing foam tape:Iso Chemie ISO Bloco One)
- 430.184-turboscrew (eg.fischer FFS 7.5x62)
- vapour barrier(vapourpermeable and water proof tape)
(eg. Iso Chemie: Iso Connect Inside CX)
- inside facing and final look



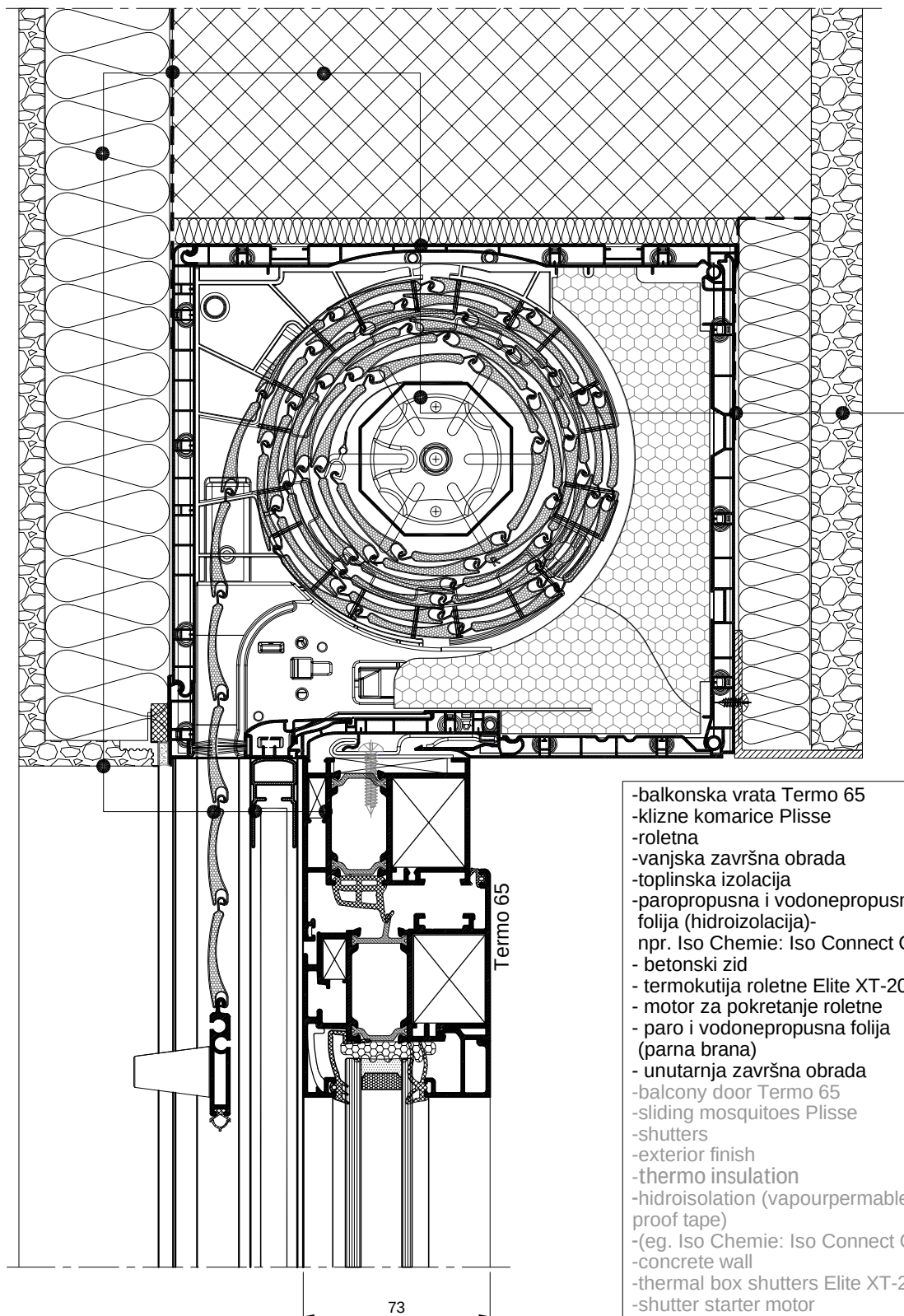
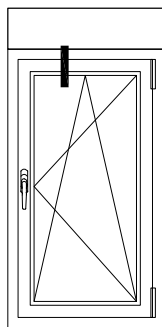
Ugradnja s elementom za ugradnju 521.286
Installation with installation element 521.286



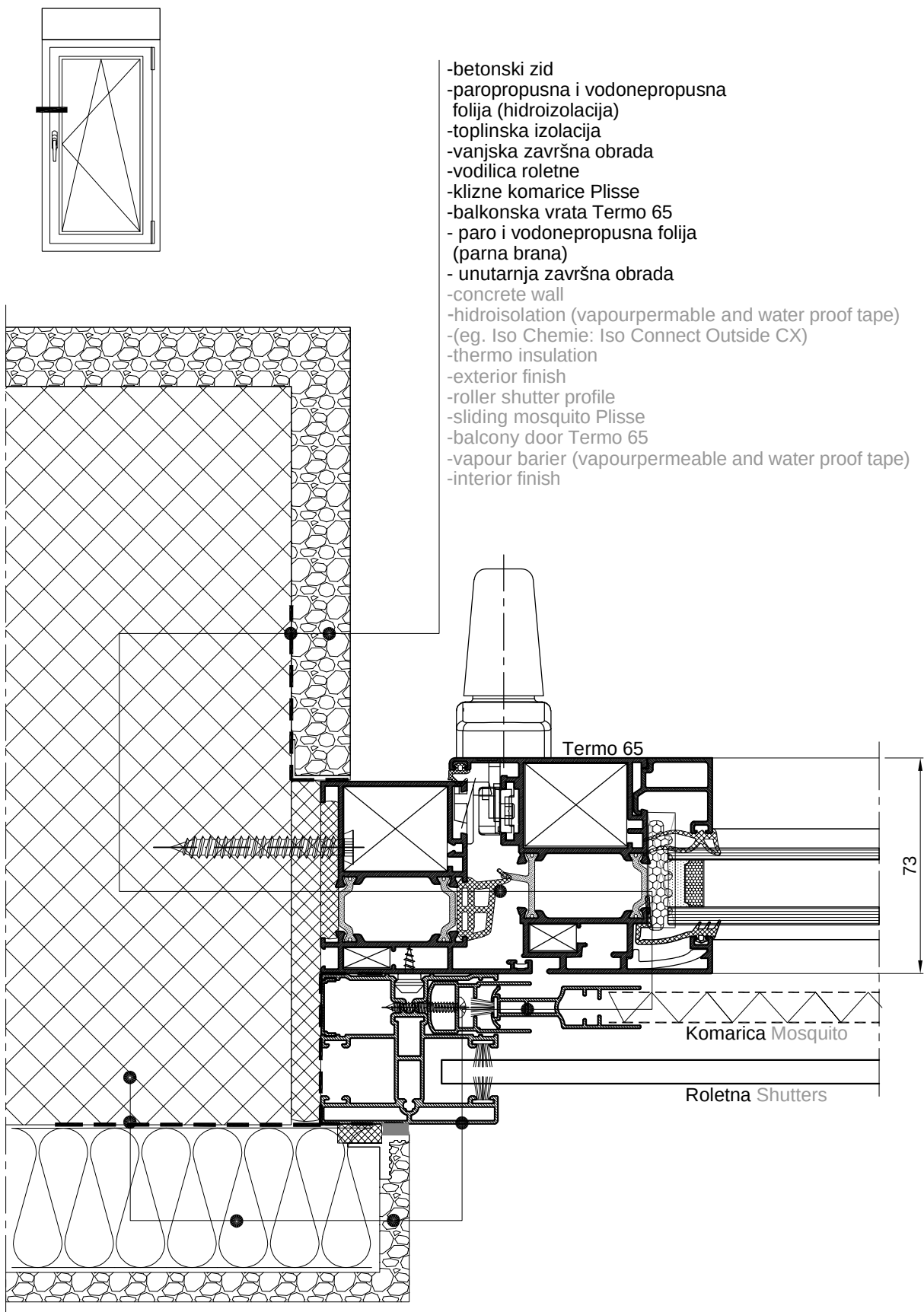
- vanjska toplinska izolacija i završni izgled
- hidroizolacija (paropropusna i vodonepropusna traka) - (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- 521.286-element za ugradnju
- 430.184-turbovijak (npr.fischer FFS 7.5x62)
- parna brana (paro- i vodonepropusna traka) - (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled
- outside thermo insulation, finishing surface
- hydroisolation (vapourpermeable and water proof tape) - (eg. Iso Chemie: Iso Connect Outside CX)
- thermal insulation (Expanding joint sealing foam tape:Iso Chemie ISO Bloco One)
- 521.286-mounting element
- 430.184-turboscrew (eg.fischer FFS 7.5x62)
- vapour barrier (vapourpermeable and water proof tape) (eg. Iso Chemie: Iso Connect Inside CX)
- inside facing and final look



521.286

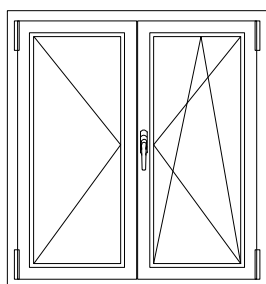
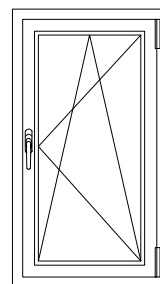
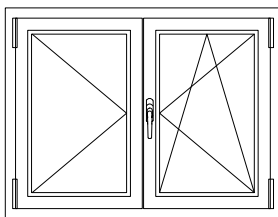
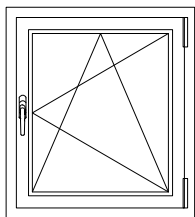


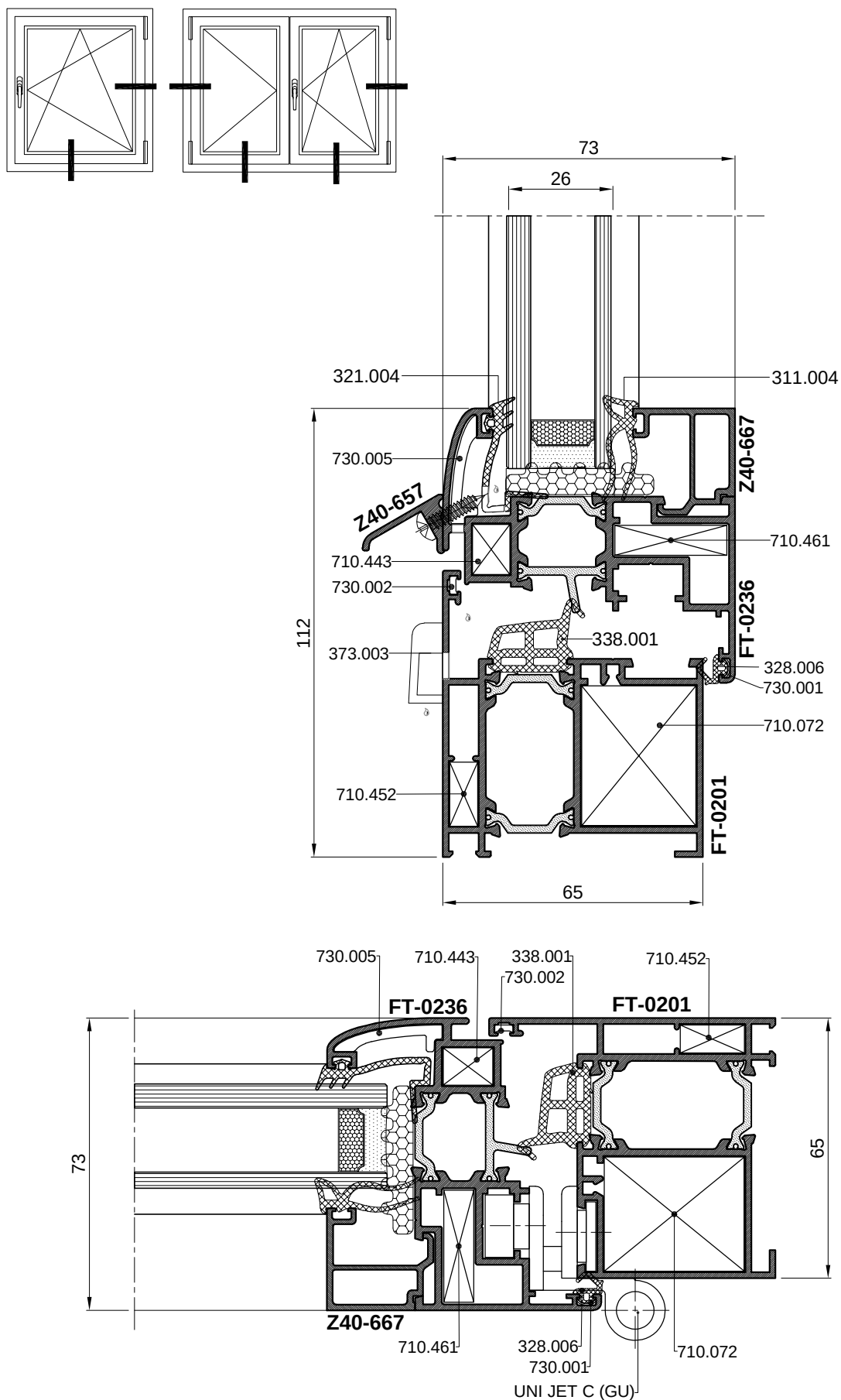
- balkonska vrata Termo 65
- klizne komarice Plisse
- roletna
- vanjska završna obrada
- toplinska izolacija
- paropropusna i vodonepropusna folija (hidroizolacija)-
- npr. Iso Chemie: Iso Connect Outside CX
- betonski zid
- termokutija roletne Elite XT-200x220
- motor za pokretanje roletne
- paro i vodonepropusna folija (parna brana)
- unutarnja završna obrada
- balcony door Termo 65
- sliding mosquitoes Plisse
- shutters
- exterior finish
- thermo insulation
- hidroisolation (vapourpermeable and water proof tape)
- (eg. Iso Chemie: Iso Connect Outside CX)
- concrete wall
- thermal box shutters Elite XT-200x220
- shutter starter motor
- vapour barrier(vapourpermeable and water proof tape)
- interior finish

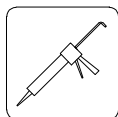
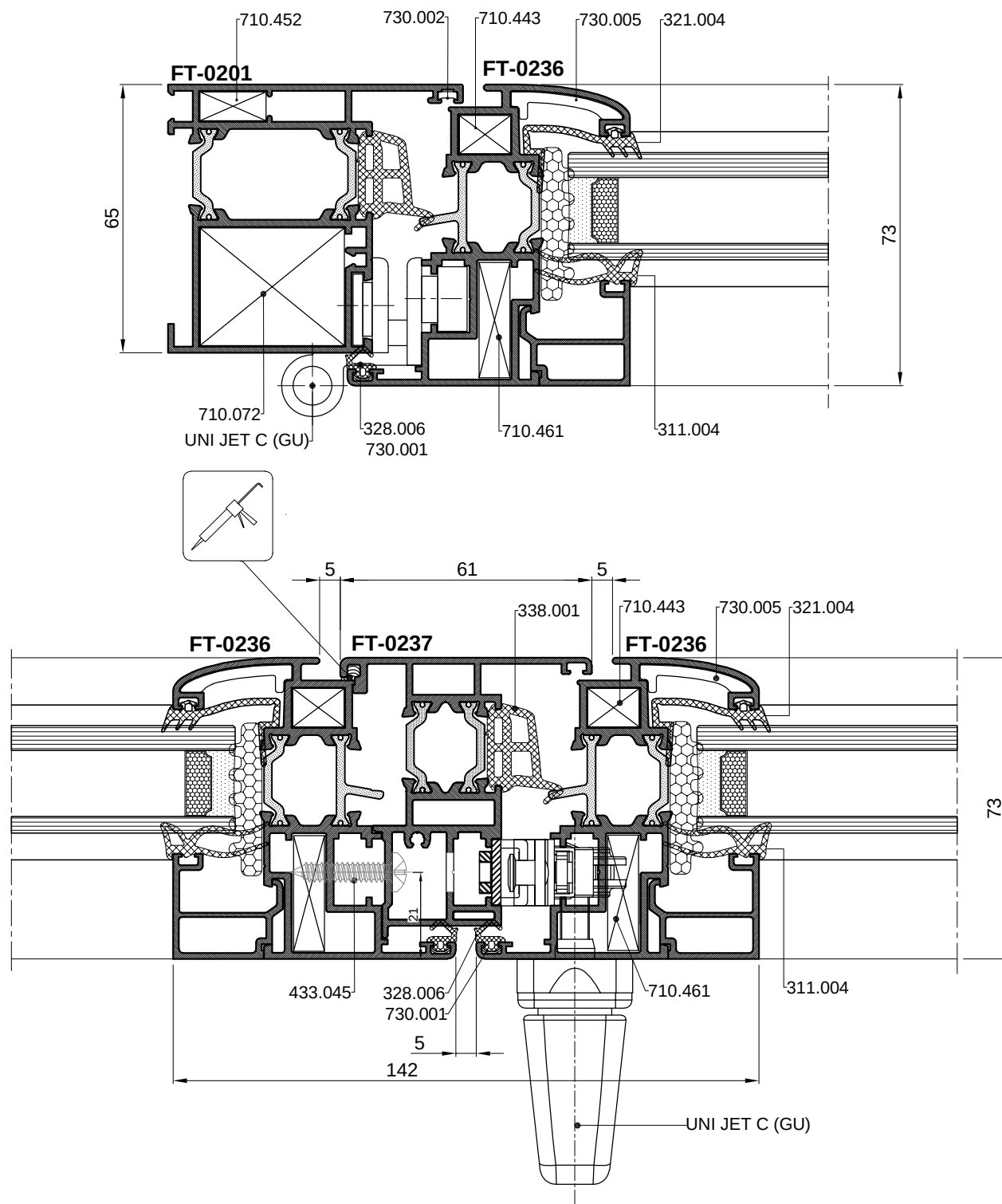
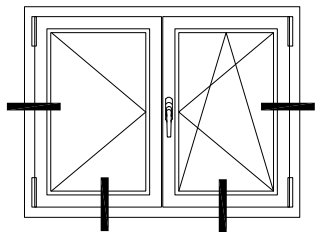


Profili sa žlijebom 16/13

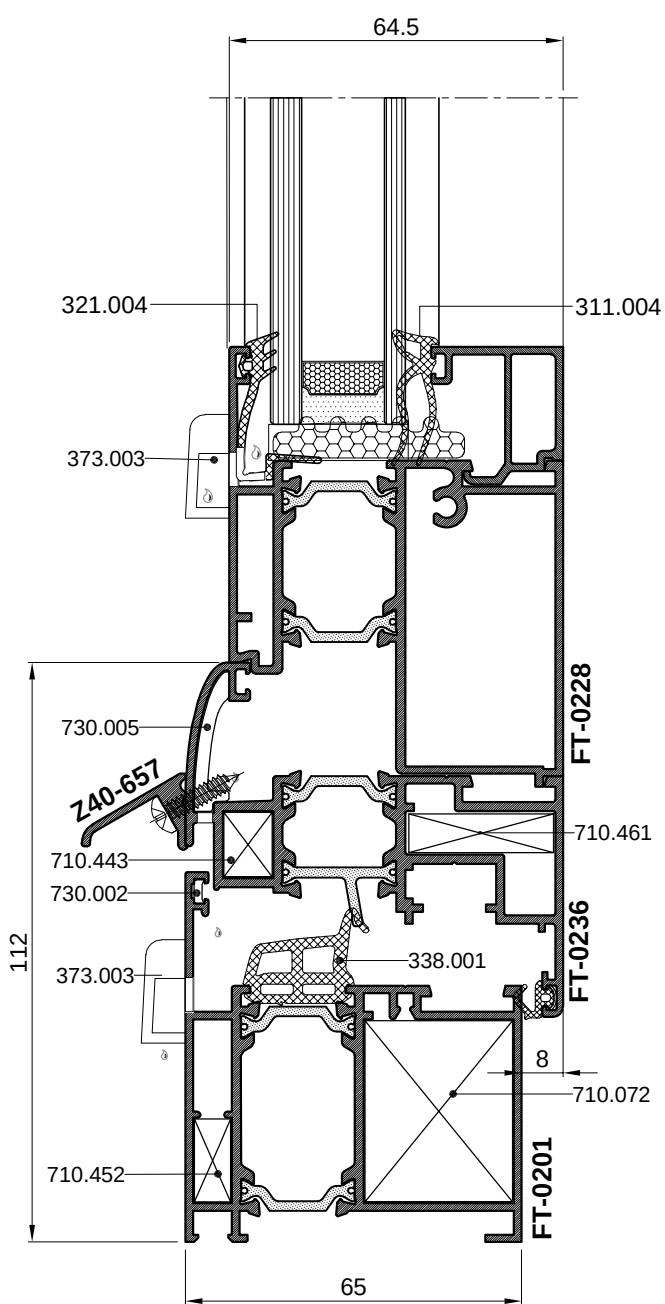
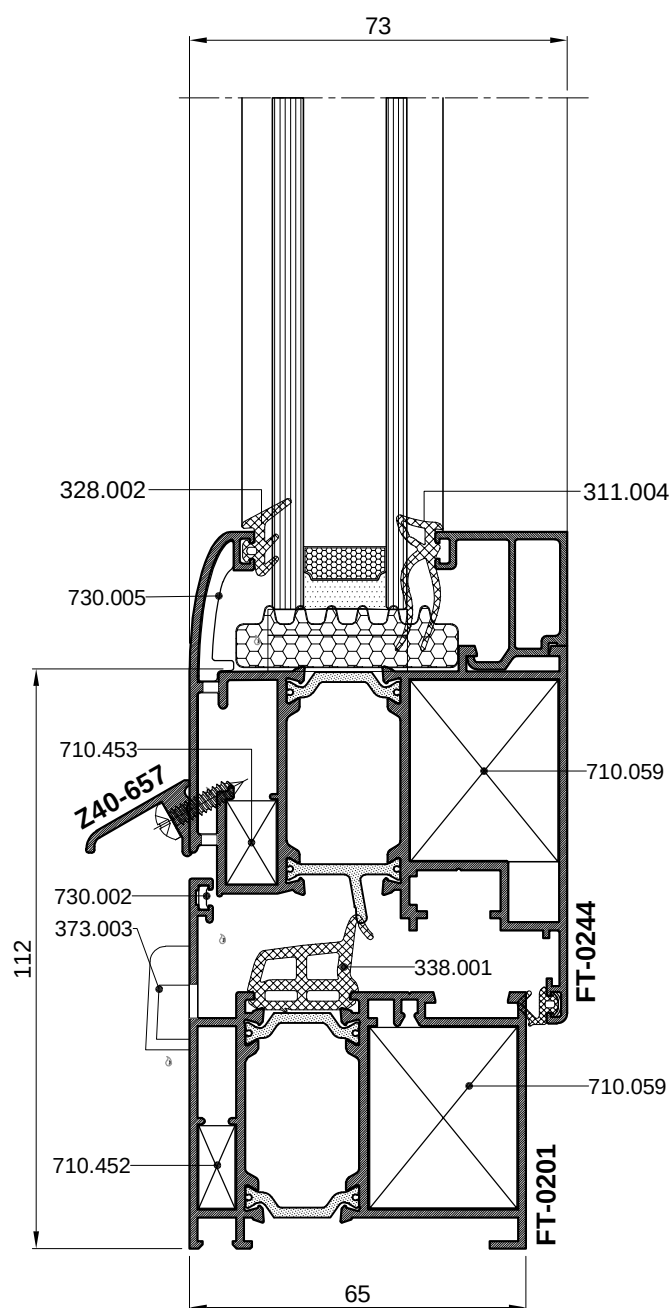
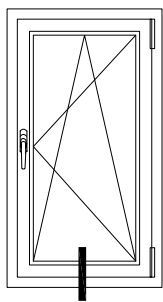
Profiles with groove 16/13

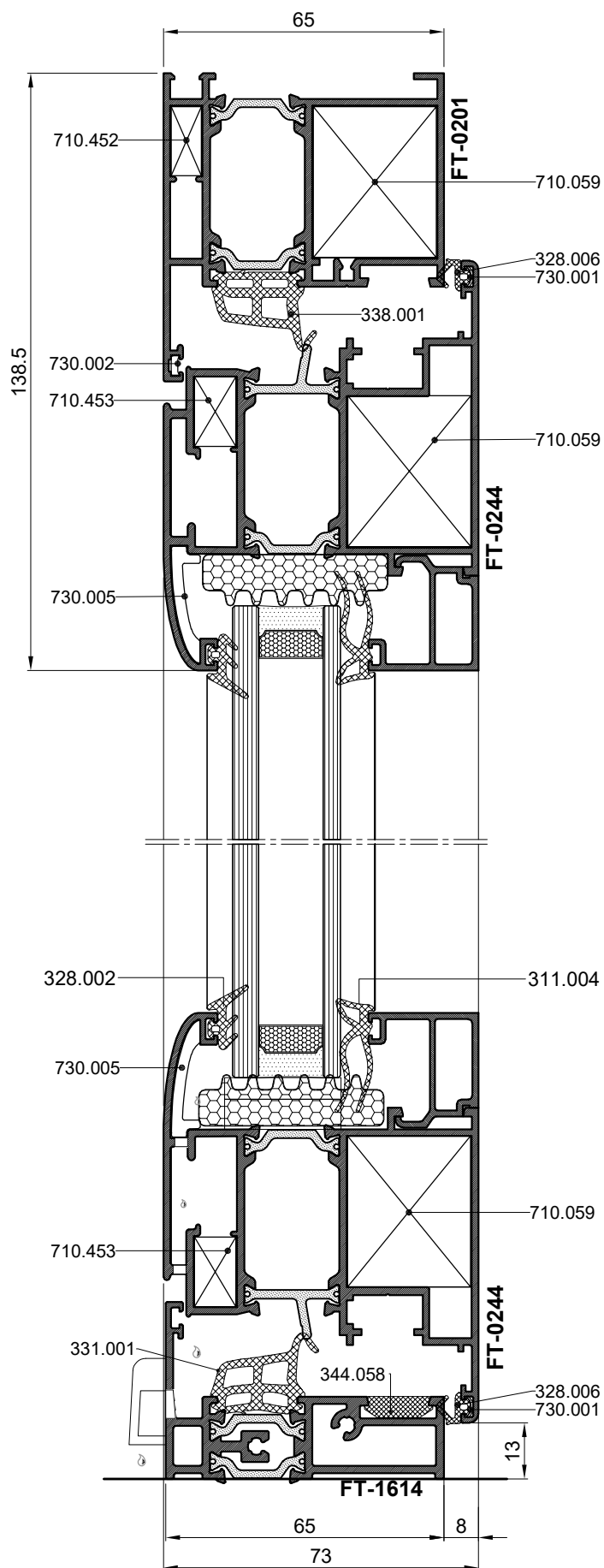
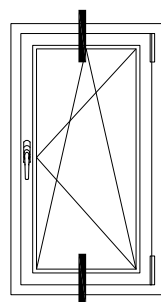


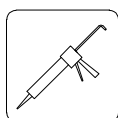
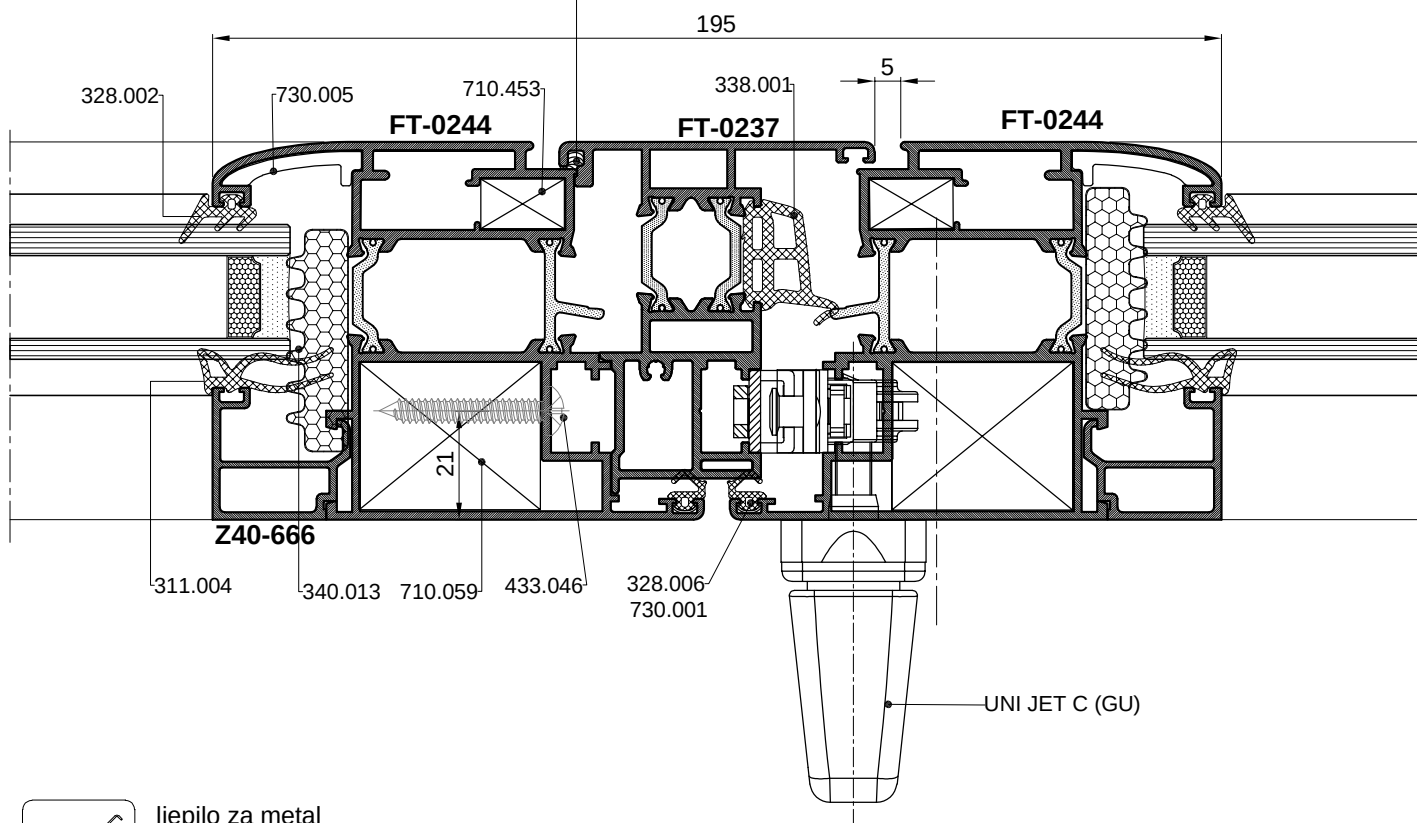
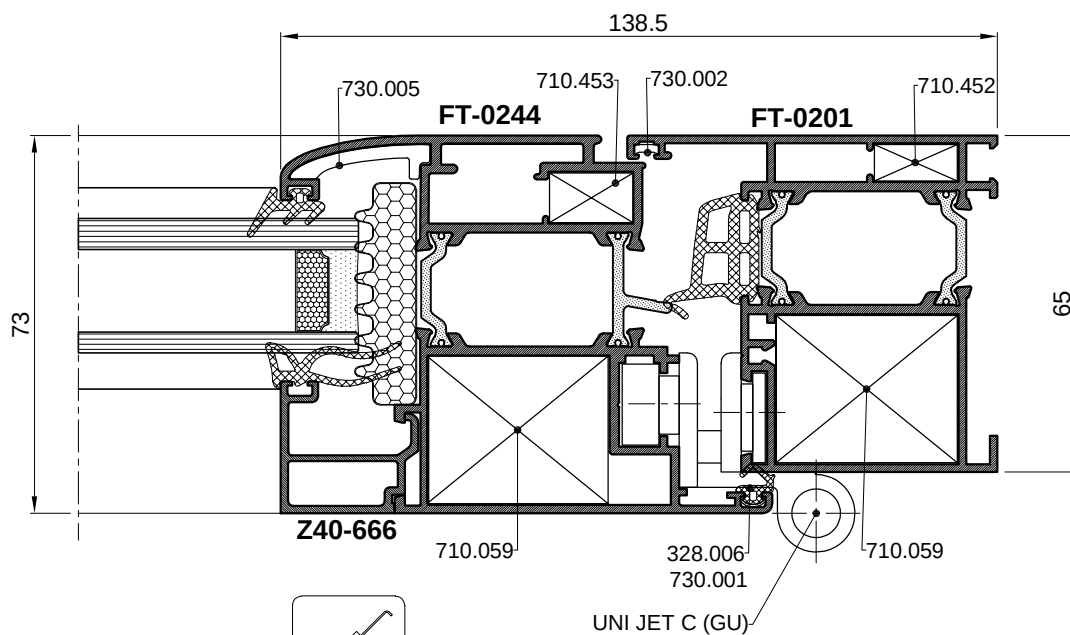
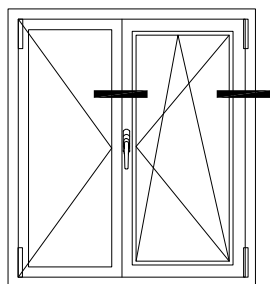




ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)







ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

FEAL



Skenirajte QR kod i registrirajte
se na partner.feal.ba

*Scan the QR code and register
on partner.feal.ba*

TERMO 65

Knjiga A / *Book A*

Travanj 2026. / *April 2026*

FEAL d.o.o.
Trnska cesta 146
88220 Široki Brijeg
Bosna i Hercegovina
Tel. +387 39 704-269; 705-807; 705-636
Fax. +387 39 704-358
info@feal.ba
www.feal.ba