FEAL



TERMO 85

PROZORI I VRATA

WINDOWS AND DOORS

Knjiga A / *Book A*

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Značajke sistema
System characteristics

OPIS SISTEMA:

Sistem TERMO 85 se koristi za izradu prozora (otvaranje unutra i vani), vrata (otvaranje unutra i vani) i fiksnih stijena.
To je sistem profila sa prekinutim termičkim mostom, osnovne ugradbene dubine dovratnika 77 i 85 mm,
Pored osnovne varijante dovratnika/krila sa ravnim linijama, moguće su izvedbe dovratnika/krila i sa zaobljenim vanjskim linijama.
Prekid termičkog mosta se postiže poliamidnim trakama širine 34 mm (low lambda).
Radi dodatnog poboljšanja termičkih karakteristika profila, u komore profila se ugrađuju profilirani štapići od XPS -a (ekstrudirani polistiren - λ=0.035 W/m²K) i takvi profili dobivaju u nazivu slovo F.
Brtvljnje je izvedeno brtvama EPDM kvalitete.
Mogući tipovi otvaranja su: otklopno, zaokretno, zaokretno otvaranje vani, zaokretno oko srednje ose, otklopno-zaokretno, vrata sa 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	150 kg
-moguća debljina ispune	21-71 mm
-zrakopropusnost	EN 12207 (klasa 4)
-vodonepropusnost	EN 12208 (klasa E1500)
-zaštita od buke	DIN 717-1 (Rw=37-50 dB)
-proračun Uw koeficijenta	DIN EN ISO 10077-2 (≥1,0 W/m²K)
-otpornost na udar vjetra	EN 12210 (klasa C5 /B5)
-protuprovalnost:	EN 1627 (RC2, RC3, RC4)
-materijal za brvljenje (EPDM)	DIN 7863
-površinska obrada	DIN 17611
-kontrola kvalitete	DIN EN ISO 9001

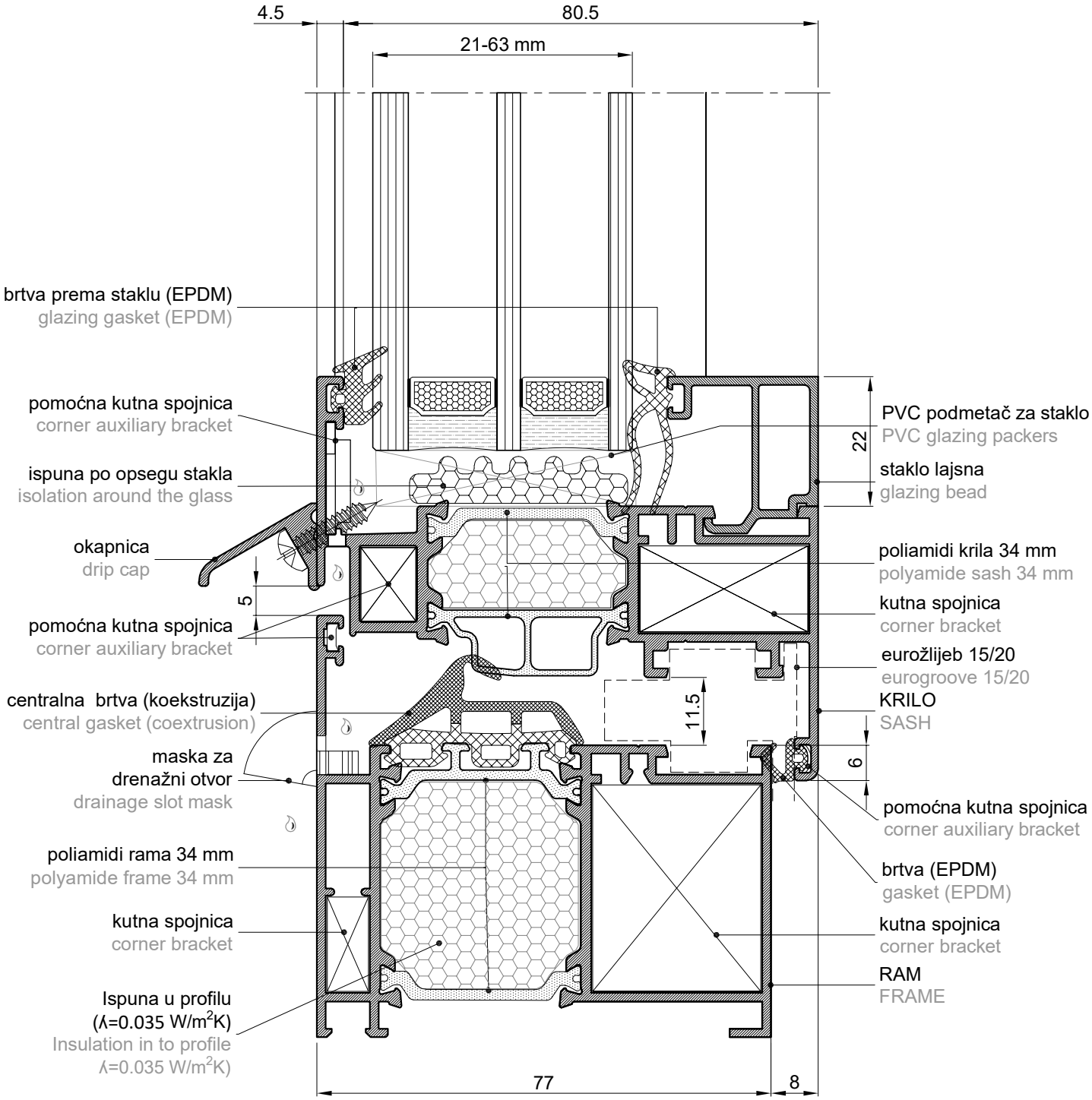
SYSTEM DESCRIPTION:

The system TERMO 85 is used for production the windows (inside and outside opening), doors (inside and outside opening) and fixed glass wall.
It is a profiles system with thermal break, basic mounting depth the frame 77 i 85 mm,
In addition to the basic variant of the frame / sash with flat lines, it is possible preformance frame/sash with the rounded outside lines.
The thermal bridge break is achieved with polyamide strips of 34 mm (low lambda)
Because of additional improvement of thermal characteristics the profiles, in the chamber stick in XPS -a (ekstrudirani polistiren - λ=0.035 W/m²K) and that profiles are given the name F.
The sealing are made with the gasket EPDM quality .
Possible types of opening: tilt, turn, turn outside opening, turn around middle axis, tilt and turn, door with outside and inside opening.
System is compatibilty 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

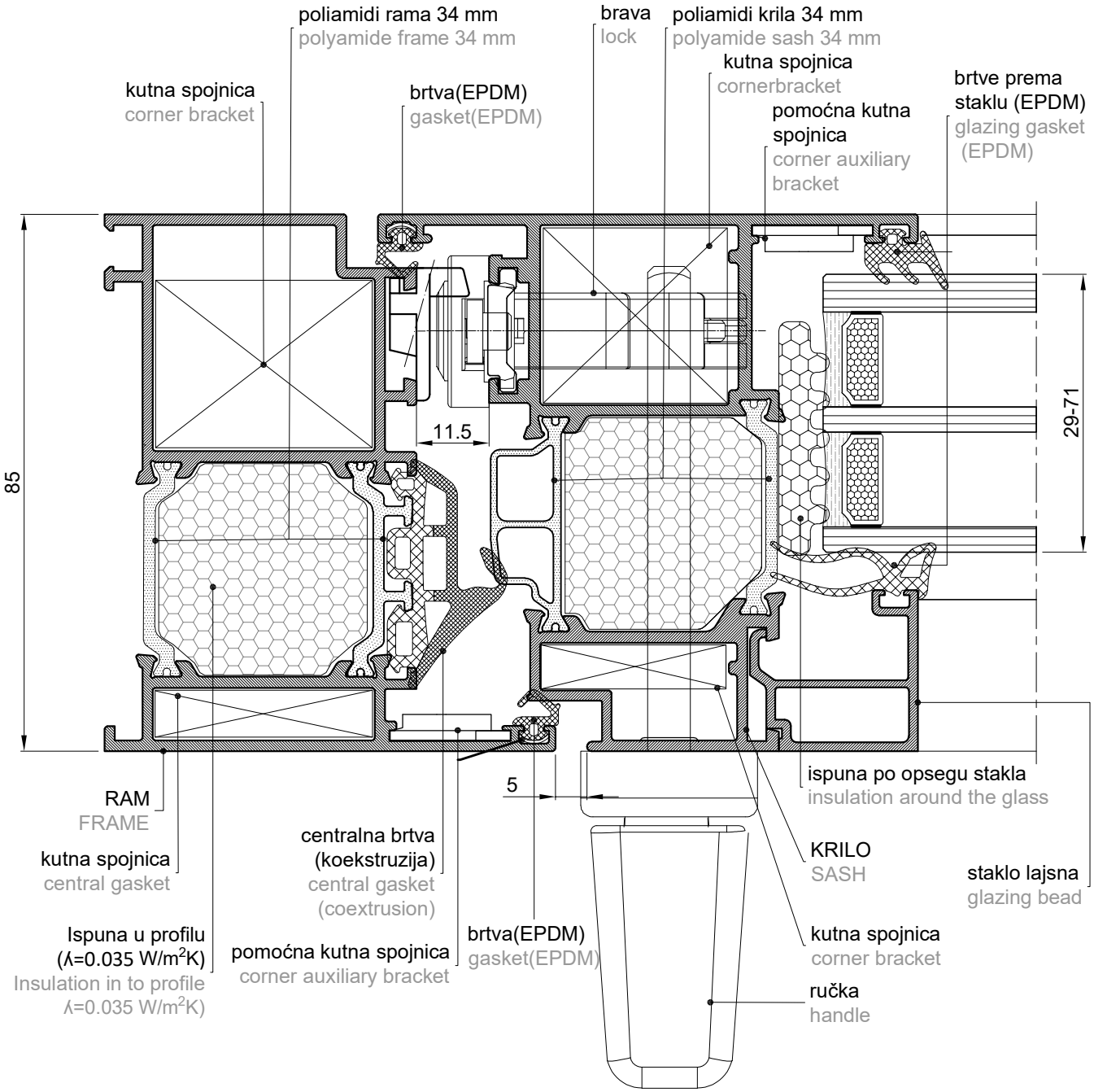
System characteristics:

-material	EN AW-6060
-mass OZ sash	150 kg
-possible infill depth	21-71 mm
-air permeability	EN 12207 (class 4)
-watertightness	EN 12208 (class E1500)
-airborne sound insulation	DIN 717-1 (Rw=37-50 dB)
-Uw calculation	DIN EN ISO 10077-2 (≥1,0 W/m²K)
-wind resistance	EN 12210 (class C5 /B5)
-burglary	EN 1627 (RC2, RC3, RC4)
-material for sealing (EPDM)	DIN 7863
-surface processing	DIN 17611
-quality control	DIN EN ISO 9001

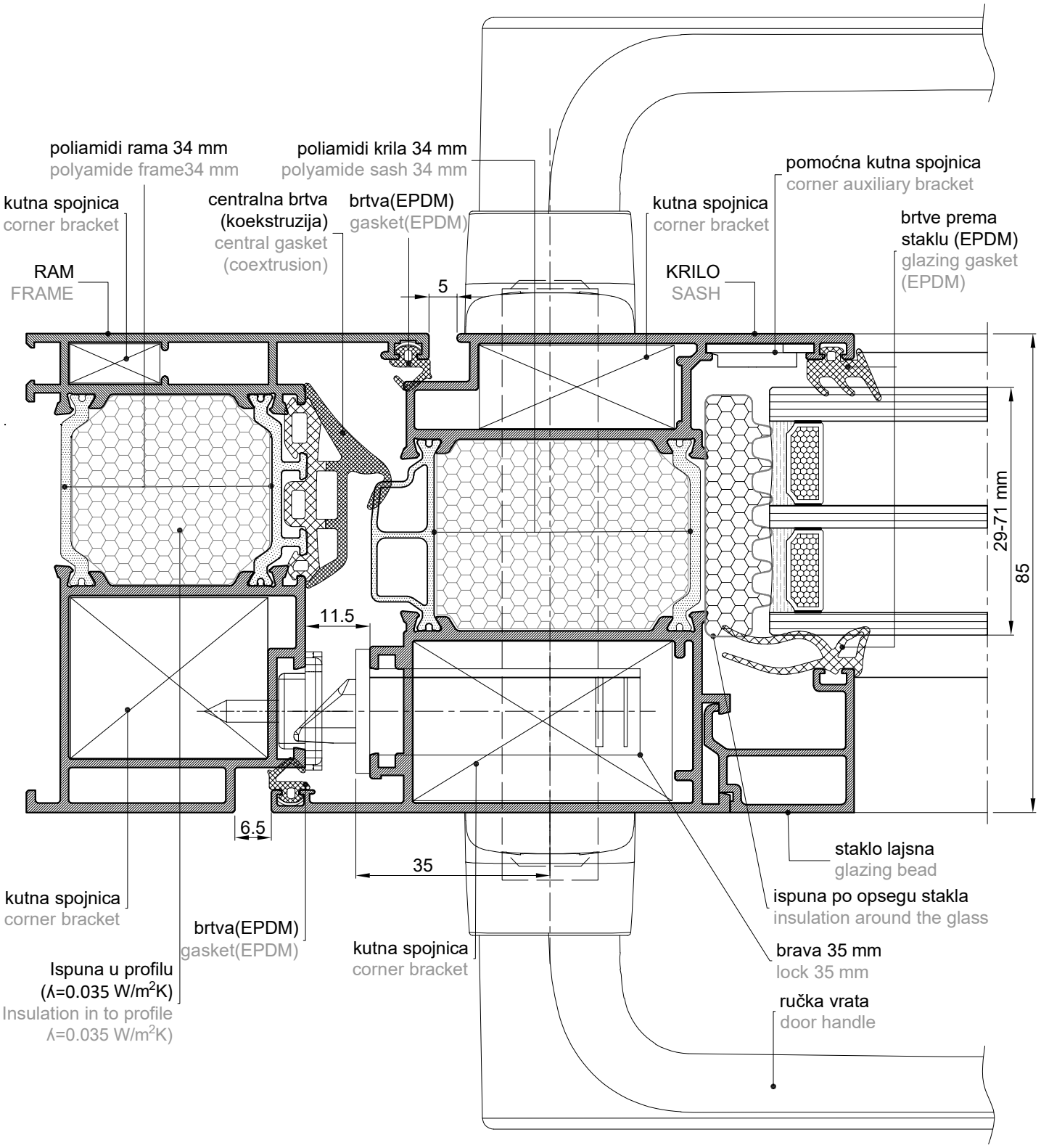
Sistem ravnih linija prozora System straight lines window



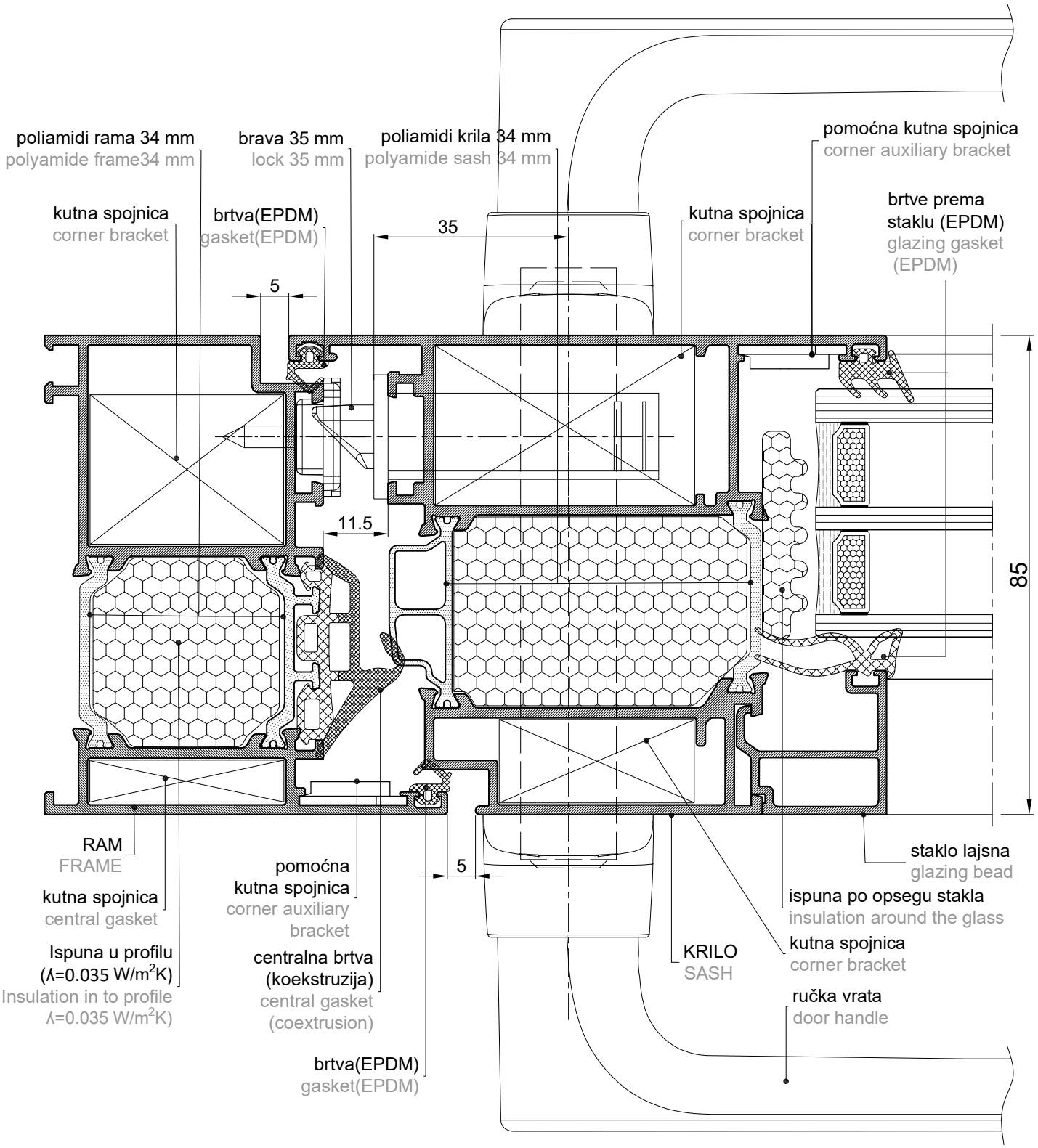
Sistem ravnih linija prozora System straight lines window



Sistem ravnih linija vrata System straight lines door



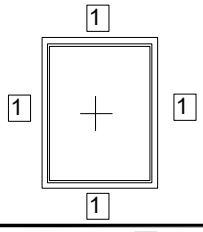
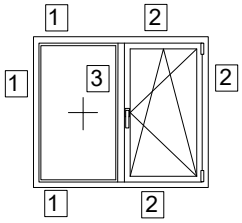
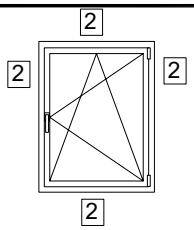
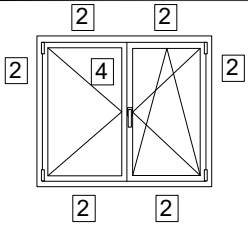
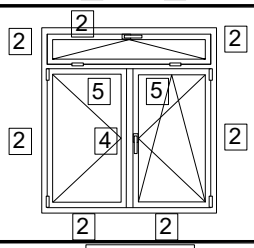
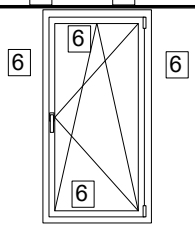
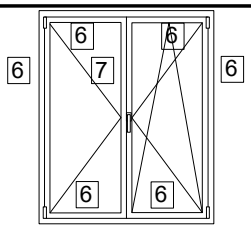
Sistem ravnih linija vrata System straight lines door



Ispitivanja i certifikati
Testing and certificates

ISPITIVANJA I CERTIFIKATI TESTING AND CERTIFICATES						
Vrsta ispitivanja Type of test	Fiksni prozor Fixed window	Jednokrilni otklopno-zaokretni prozor Single tilt-turn window	Dvokrilni otklopno-zaokretni prozor Double tilt-turn window	Otklopni prozor - ventus - Bottom hung window	Prozor - otvaranje oko srednje hor. osi Horizontal pivot window	Zaokretni prozor - otvaranje vani Side hung window - outwards opening
Zrakopropusnost Air permeability EN12207	**4**	**4**	**4**	**4**	**4**	**4**
Vodonepropusnost Watertightness EN 12208	**E1350**	**E1500**	**E900**	**E1500**	**E900**	**8A**
Otp. na udare vjetra Resistance to wind load EN 12210	**C5**	**C5/B5**	**C4/B4**	**C5/B5**	**C4/B4**	**C4/B4**
Buka Rw Airborne sound reduction EN ISO 717-1	**50 dB**	**37-42 dB**				
Protuprovalnost Protection against burglary EN 1627	**RC2,RC4**	**RC2,RC3**	**RC2**			
Otpornost na istezanje, torziju... Resistance at strain, torsion...		**DA**				
Pendl test Impact resistance test EN 13049		**4**				
Protupožarnost Fire resistance test DIN EN 1363-1						
Protudimnost Smoke control test EN 1634-3 EN 16034						
Otpornost na uzastopno otvaranje i zatvaranje Resistance to repeated opening and closing EN 12400		Klasa 3 (20000 ciklusa) Class 3 (20000 cycles)				

ISPITIVANJA I CERTIFIKATI TESTING AND CERTIFICATES						
Vrsta ispitivanja Type of test	Jednokrilna balkonska vrata Single balcony door	Dvokrilna balkonska vrata Double balcony door	Jednokrilna ulazna vrata otvaranje unutra Single entrance door inwards op.	Jednokrilna ulazna vrata otvaranje vani Single entrance door outwards opening		
Zrakopropusnost Air permeability EN12207	**4**	**4**	**4**	**4**		
Vodoneprpusnost Watertightness EN 12208	**9A**	**8A**	**8A**	**E1200**		
Otp. na udare vjetra Resistance to wind load EN 12210	**C3/B3**	**C4/B4**	**C4/B4**	**C4/B4**		
Buka Rw Airborne sound reduction EN ISO 717-1						
Protuprovalnost Protection against burglary EN 1627	**RC2**					
Otpornost na istezanje, torziju... Resistance at strain, torsion...	**DA**					
Pendl test Impact resistance test EN 13049			**3**	**3**		
Protupožarnost Fire resistance test DIN EN 1363-1						
Protudimnost Smoke control test EN 1634-3 EN 16034						
Klas. izvještaj za vrata na evaku. putevima Classification report for doorsets on escape routes				**DA**		

		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)	**1,2** ***2,4**							0,7	≥0,92 *≥1,2
									1,1	≥1,2 *≥1,5
	-otkl.-zao.s fiks. dijelom -tilt & turn with fixed field (1600x1480)	**1,2** ***2,4**	**1,5** ***2,3**	**1,6** ***2,0**					0,7	≥1,1 *≥1,3
									1,1	≥1,3 *≥1,6
	-otklopno -zaokretno - tilt & turn window (1230x1480)		**1,5** ***2,3**						0,7	≥1,1 *≥1,3
									1,1	≥1,3 *≥1,6
	-dvokrilno otklopno -zaokretno -double sash tilt & turn window (1600x1480)		**1,5** ***2,3**		**1,6** ***2,1**				0,7	≥1,1 *≥1,4
									1,1	≥1,3 *≥1,6
	-dvokrilno otkl.-zaok. s nadsvijetlom -double sash tilt & turn with overhead op. (1600x1980)		**1,5** ***2,3**		**1,6** ***2,1**	**1,6** ***2,1**			0,7	≥1,2 *≥1,4
									1,1	≥1,4 *≥1,7
	-balkonska vrata -balcony door (1100x2200)						**1,4** ***2,4**		0,7	≥1,0 *≥1,4
									1,1	≥1,3 *≥1,6
	-dvokrilna balkonska vrata -double balcony door (1600x2200)						**1,4** ***2,3**	**1,4** ***2,3**	0,7	≥1,1 *≥1,4
									1,1	≥1,3 *≥1,7

* Uf i Uw izračuni bez XPS ispuna u profilima

* Uf i Uw calculations without XPS isolation in the profiles

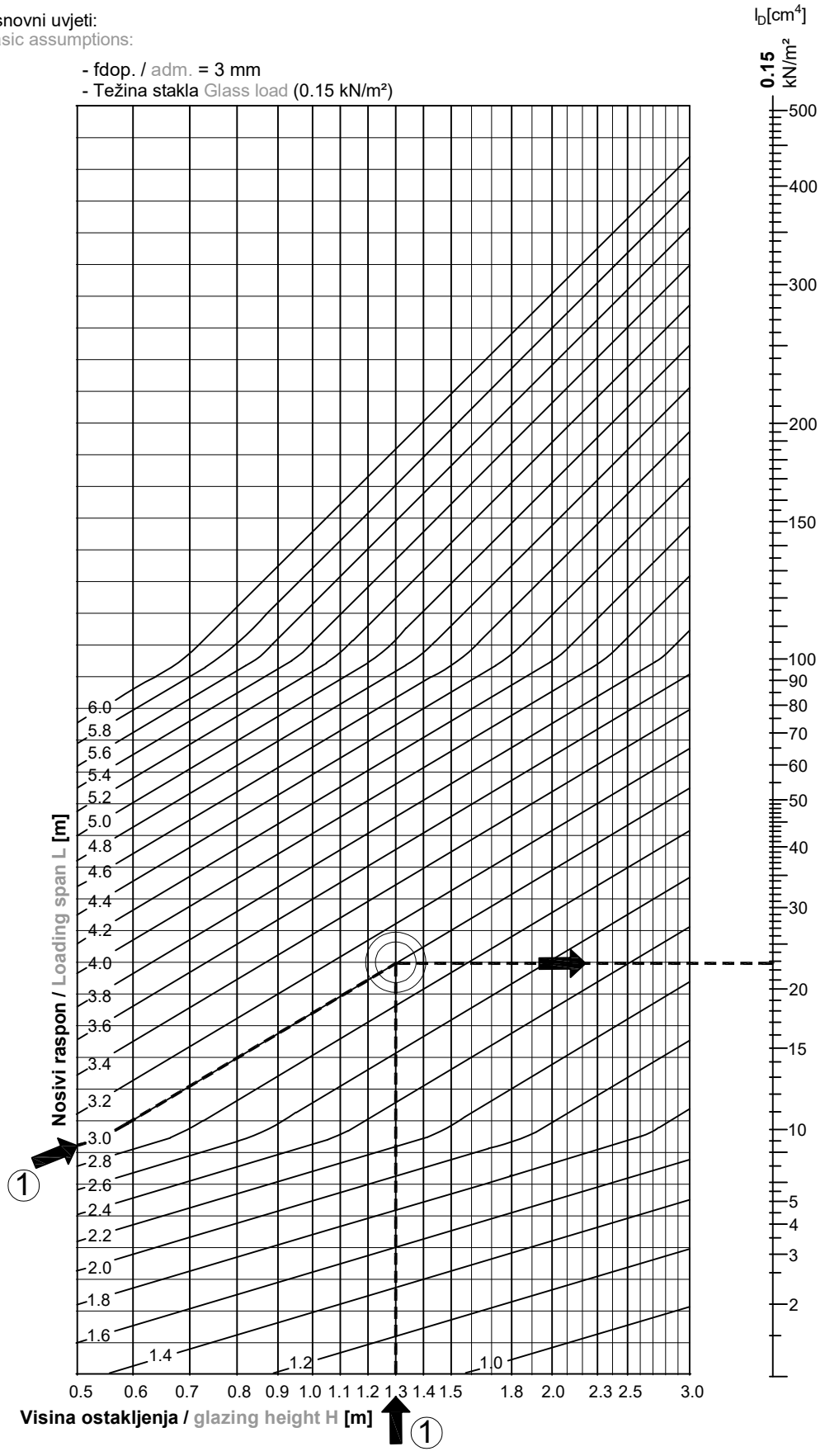
Proračun koeficijenta prolaza topline
Calculation of thermal transmittance

http://termika.feal.ba/

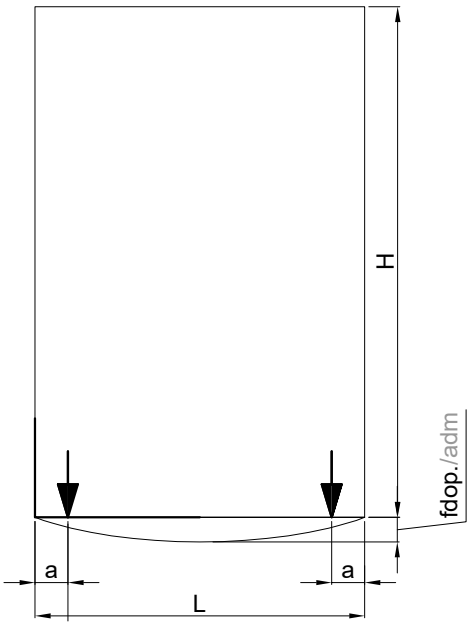
Statički dijagram težina stakla Structural diagram glass load

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 Iy pod jediničnim opt. 0.15 kN/m²
Determination of required moment Iy under unit load 0.15 kN/m²

za / for qs 0.15 kN/m²
$Iy_{0.15}$ = 23 cm⁴ (① dijagram / diagram)

3. Određivanje potrebnog momenta Ix pod opterećenjem na objektu
Determination of required moment Ix under load on the building

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

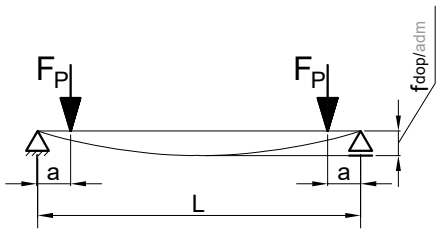
Potrebni / required $Iy=K_{20} \cdot Iy_{0.15}$ = (3.33) · 23 cm⁴ =77 cm⁴

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

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

Statičke jednadžbe Structural formulas

Nosač na dva oslonca / Beam on 2 supports



a = 150 mm fiksno / fixed

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

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

I_y	(cm^4) = 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
fdop. / adm.	(cm) = dop.progib / adm. deflection

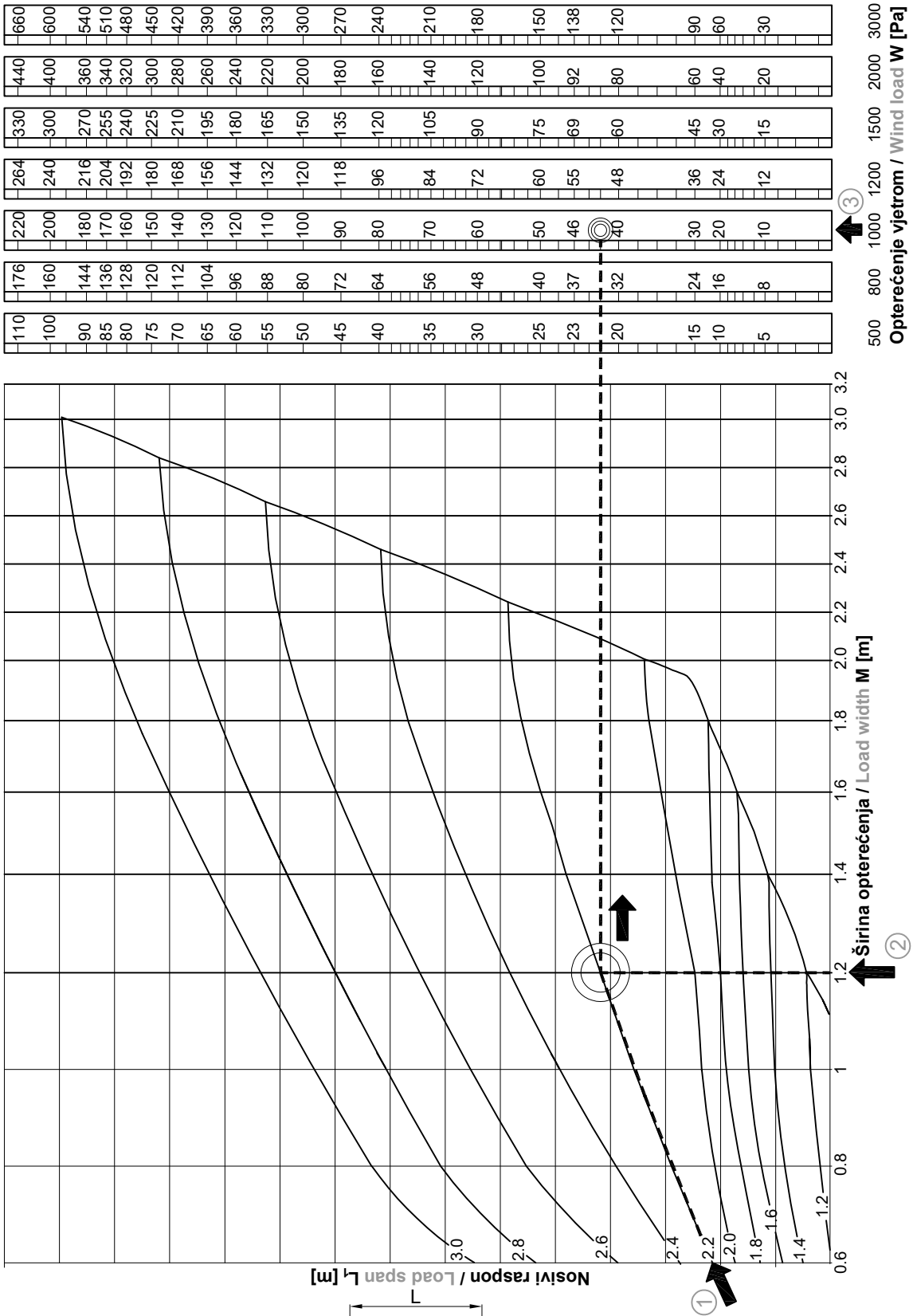
Tablica 1. Težina stakla
Table 1. Glass weight

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/m²	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/m²	15	20	25	30	35	40	45	50	55	60	65	70	80	85	90	95	100	105	110	115	120	125
Debl. 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

①

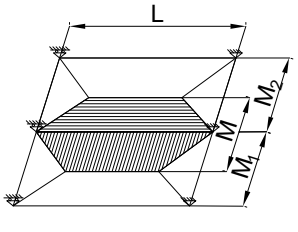
Statički dijagram -opterećenje vjetrom Structural diagram of wind load

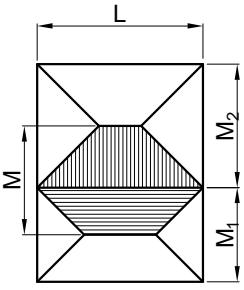
Trokutasto i trapeziodno opterećenje Triangular and trapezoidal load



Pa(N/m²)	400	500	600	700	800	900	1000	1100	1200	1400	1500	1600	1800	2000	2200	2400	3000
kPa(kN/m²)	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.4	1.5	1.6	1.8	2.0	2.2	2.4	3.0
km/h	89.6	100.1	109.7	118.5	126.7	134.4	141.6	148.5	155.1	167.7	173.5	179.1	190.0	200.3	210.1	219.4	245.3
m/s	24.9	27.8	30.5	32.9	35.2	37.3	39.3	41.3	43.1	46.5	48.2	49.8	52.8	55.6	58.4	60.9	68.1

Osnovni uvjeti
Basic assumptions:
fdop. / adm. =L / 200
Trapezoidno opterećenje
Trapeziodal load
$M = (M_1+M_2)/2$





Primjer 1 / Example 1:

① Nosivi raspon / Load span: L= 2.20 m

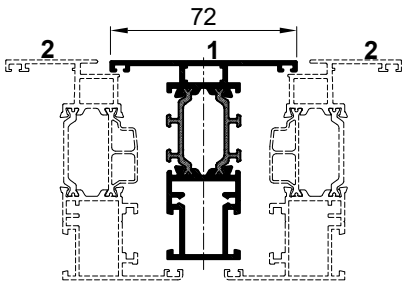
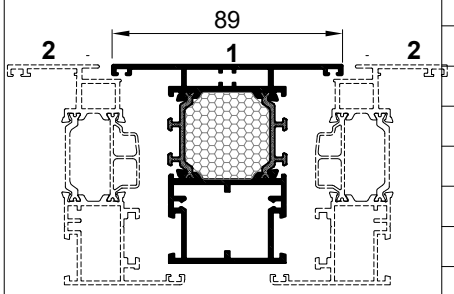
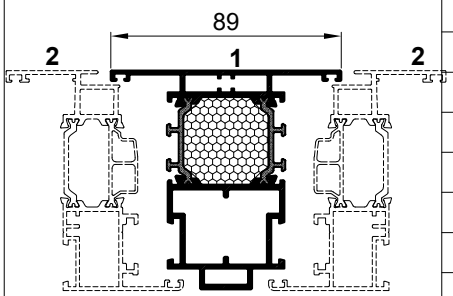
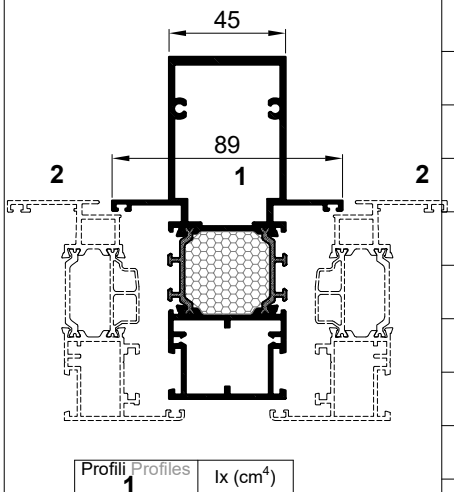
② Širina opterećenja / Load width: M_1= 1,0 m, M_2=1,4 m, $M=(M_1+M_2)/2=1,2$ m

③ Tlak vjetra* Wind pressure* = 1000 Pa

Rezultat/ Result
Potrebni Ix / Required Ix = 42 cm^4

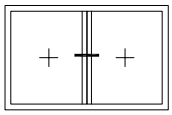
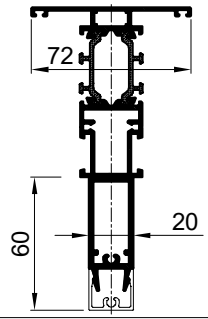
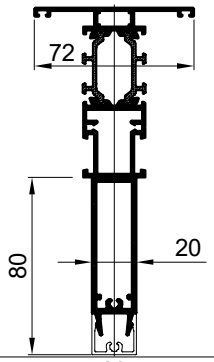
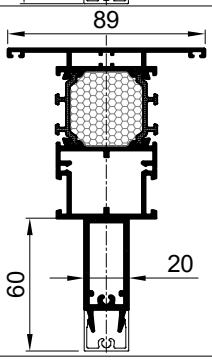
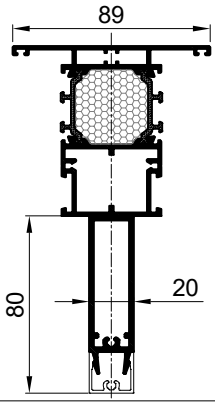
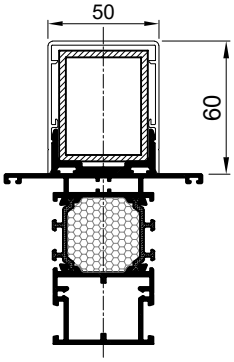
Odabrati odgovarajući profil iz tablice profila
Select the profile from the profile table

Vrijednosti momenta inercije
Moment of inertia values

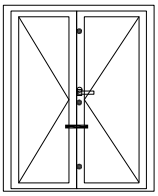
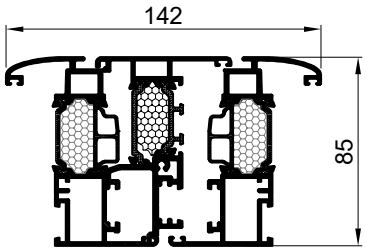
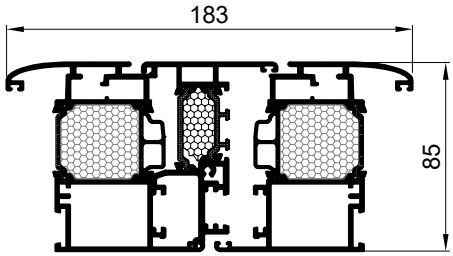
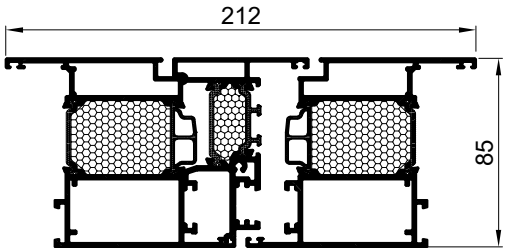
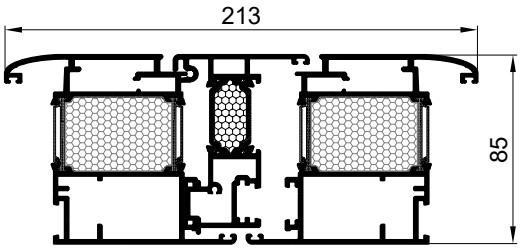
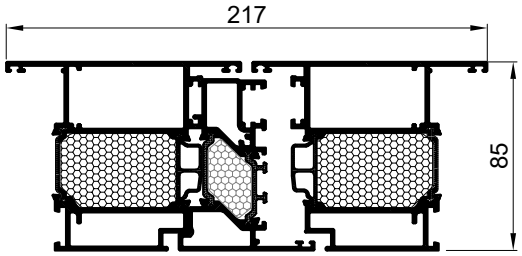
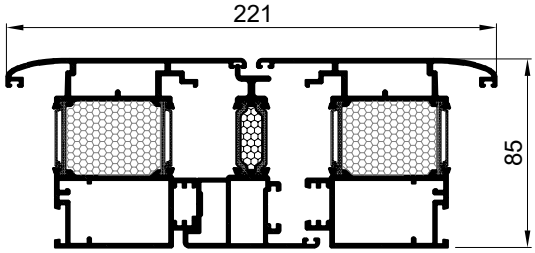
Tip otvaranja Opening type	Izgled View	Profili Profiles **1+2**	Ix (cm^4)	Profili Profiles **2+1+2**	Ix (cm^4)
1 * 1+2 * 2+1+2		FT-2205H+FT-0295H	**61.23**	FT-0295H+FT-2205H+FT-0295H	**95.46**
		FT-2205H+FT-0203H	**61.09**	FT-0203H+FT-2205H+FT-0203H	**95.18**
		FT-2205H+FT-0221H	**62.58**	FT-0221H+FT-2205H+FT-0221H	**61.09**
		FT-2205H+FT-0204H	**74.73**	FT-0204H+FT-2205H+FT-0204H	**122.46**
		FT-2205H+FT-0230H	**76.76**	FT-0230H+FT-2205H+FT-0230H	**126.52**
		FT-2205H+FT-0218H	**84.25**	FT-0218H+FT-2205H+FT-0218H	**141.5**
		FT-2205H+FT-0247H	**85.71**	FT-0247H+FT-2205H+FT-0247H	**144.42**
		FT-2205H+FT-0275H	**81.81**	FT-0275H+FT-2205H+FT-0275H	**136.62**
		FT-2205H+FT-0291H	**84.31**	FT-0291H+FT-2205H+FT-0291H	**141.62**
	Profili Profiles 1: FT-2205H — Ix (cm^4): **27**	FT-2205H+FT-1615H	**79.04**	FT-1615H+FT-2205H+FT-1615H	**131.08**
		FT-2206H+FT-0295H	**69.1**	FT-0295H+FT-2206H+FT-0295H	**103.33**
		FT-2206H+FT-0203H	**68.96**	FT-0203H+FT-2206H+FT-0203H	**103.05**
		FT-2206H+FT-0221H	**70.45**	FT-0221H+FT-2206H+FT-0221H	**106.03**
		FT-2206H+FT-0204H	**82.6**	FT-0204H+FT-2206H+FT-0204H	**130.33**
		FT-2206H+FT-0230H	**84.63**	FT-0230H+FT-2206H+FT-0230H	**134.39**
		FT-2206H+FT-0218H	**92.12**	FT-0218H+FT-2206H+FT-0218H	**149.37**
		FT-2206H+FT-0247H	**93.58**	FT-0247H+FT-2206H+FT-0247H	**152.29**
		FT-2206H+FT-0275H	**89.68**	FT-0275H+FT-2206H+FT-0275H	**144.49**
		FT-2206H+FT-0291H	**92.18**	FT-0291H+FT-2206H+FT-0291H	**149.49**
	Profili Profiles 1: FT-2206H — Ix (cm^4): 34.87	FT-2206H+FT-1615H	**86.91**	FT-1615H+FT-2206H+FT-1615H	**138.95**
		FT-2276H+FT-0295H	**78.47**	FT-0295H+FT-2276H+FT-0295H	**112.7**
		FT-2276H+FT-0203H	**78.33**	FT-0203H+FT-2276H+FT-0203H	**112.42**
		FT-2276H+FT-0221H	**79.82**	FT-0221H+FT-2276H+FT-0221H	**115.4**
		FT-2276H+FT-0204H	**91.97**	FT-0204H+FT-2276H+FT-0204H	**139.7**
		FT-2276H+FT-0230H	**94**	FT-0230H+FT-2276H+FT-0230H	**143.76**
		FT-2276H+FT-0218H	**101.49**	FT-0218H+FT-2276H+FT-0218H	**158.74**
		FT-2276H+FT-0247H	**102.95**	FT-0247H+FT-2276H+FT-0247H	**161.66**
		FT-2276H+FT-0275H	**99.05**	FT-0275H+FT-2276H+FT-0275H	**153.86**
		FT-2276H+FT-0291H	**101.55**	FT-0291H+FT-2276H+FT-0291H	**158.86**
	Profili Profiles 1: FT-2276H — Ix (cm^4): 44.24	FT-2276H+FT-1615H	**96.28**	FT-1615H+FT-2276H+FT-1615H	**148.32**
		FT-2209H+FT-0295H	**167.56**	FT-0295H+FT-2209H+FT-0295H	**201.79**
		FT-2209H+FT-0203H	**167.42**	FT-0203H+FT-2209H+FT-0203H	**201.51**
		FT-2209H+FT-0221H	**168.91**	FT-0221H+FT-2209H+FT-0221H	**204.49**
		FT-2209H+FT-0204H	**181.06**	FT-0204H+FT-2209H+FT-0204H	**228.79**
		FT-2209H+FT-0230H	**183.09**	FT-0230H+FT-2209H+FT-0230H	**232.85**
		FT-2209H+FT-0218H	**190.58**	FT-0218H+FT-2209H+FT-0218H	**247.83**
		FT-2209H+FT-0247H	**192.04**	FT-0247H+FT-2209H+FT-0247H	**250.75**
		FT-2209H+FT-0275H	**188.14**	FT-0275H+FT-2209H+FT-0275H	**242.85**
		FT-2209H+FT-0291H	**190.64**	FT-0291H+FT-2209H+FT-0291H	**247.95**
	Profili Profiles 1: FT-2209H — Ix (cm^4): 133.33	FT-2209H+FT-1615H	**185.37**	FT-1615H+FT-2209H+FT-1615H	**237.41**

* Preduvjet: minimalno tri točke ključanja, s maksimalnim međusobnim razmakom 800 mm
* Precondition: min. 3 locking points, with max. distance between locking points 800 mm

Vrijednosti momenta inercije
Moment of inertia values

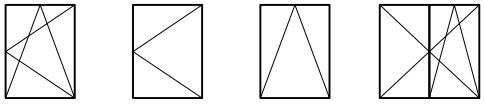
Tip otvaranja Opening type	Profili Profiles	Profili Profiles	Ix (cm^4)
		FT-2205H i F-1634	**101.35**
		FT-2205H i NP-4183	**150.27**
		FT-2206H i F-1634	**114.24**
		FT-2206H i NP-4183	**167.82**
		FT-2206H i čelični profil 50x40x3	**220.7**

Vrijednosti momenta inercije Moment of inertia values

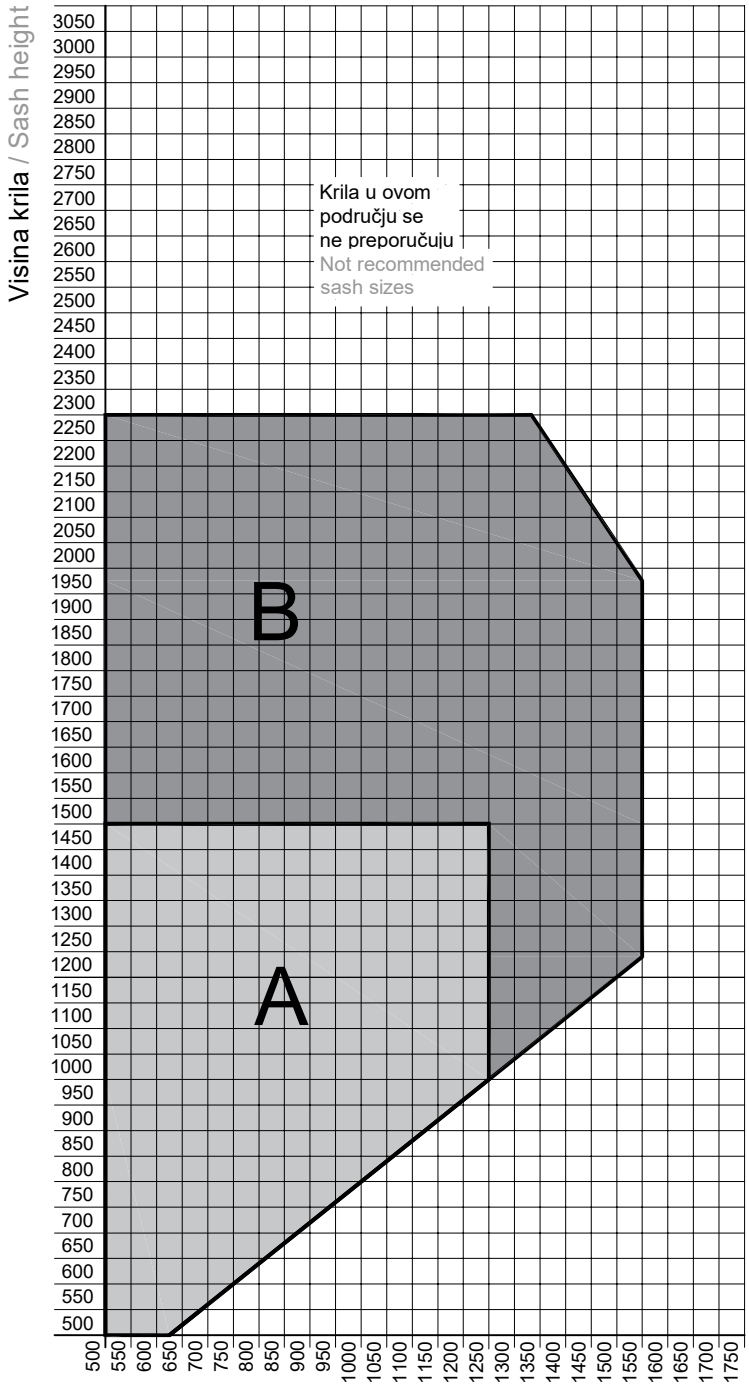
Tip otvaranja Opening type	Izgled View	Profili Profiles	Ix (cm^4)
		(FT-0203H i FT-2286H) + FT-0203H	**96.26**
		(FT-0204H i FT-2286H) + FT-0204H	**124.41**
		(FT-0275H i FT-2277H) + FT-0275H	**138.52**
		(FT-0218H i FT-0211/AH) + FT-0218H	**146.54**
		(FT-0279H i FT-2281H) + FT-0279H	**146.17**
		(FT-0219H i FT-0213/AH) + FT-0219H	**142.91**

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



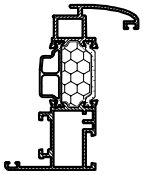
Dijagram veličina krila ovisan o geometriji profila krila
Sash size diagram based on the sash profile geometry



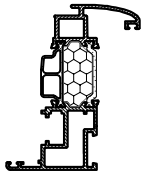
Grupa **A**

A≤90 kg

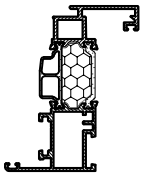
FT-0203HF



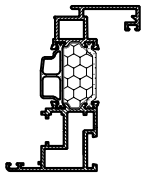
FT-0236HF



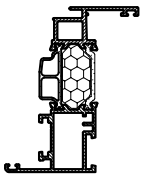
FT-0221HF



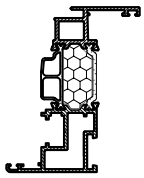
FT-0239HF



FT-0295HF



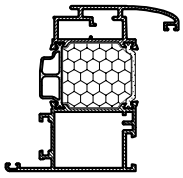
FT-0296HF



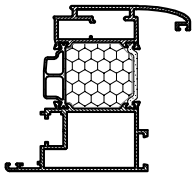
Grupa **B**

B≤180 kg

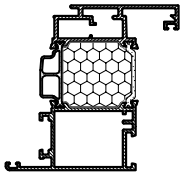
FT-0204HF



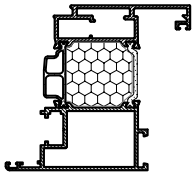
FT-0244HF



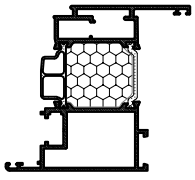
FT-0230HF



FT-0246HF



FT-1610HF



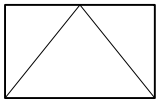
Prije konačnog odabira profila i dimenzija krila uzeti u obzir i ograničenja primjene okova prema preporuci proizvođača okova. Za izradu krila čije dimenzije se nalaze van graničnih dimenzija u dijagramu, staklo obavezno zalijepiti za profil krila (preporuke za lijepljenje /Knjiga B/ str. 204.11.010).

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 204.11.010).

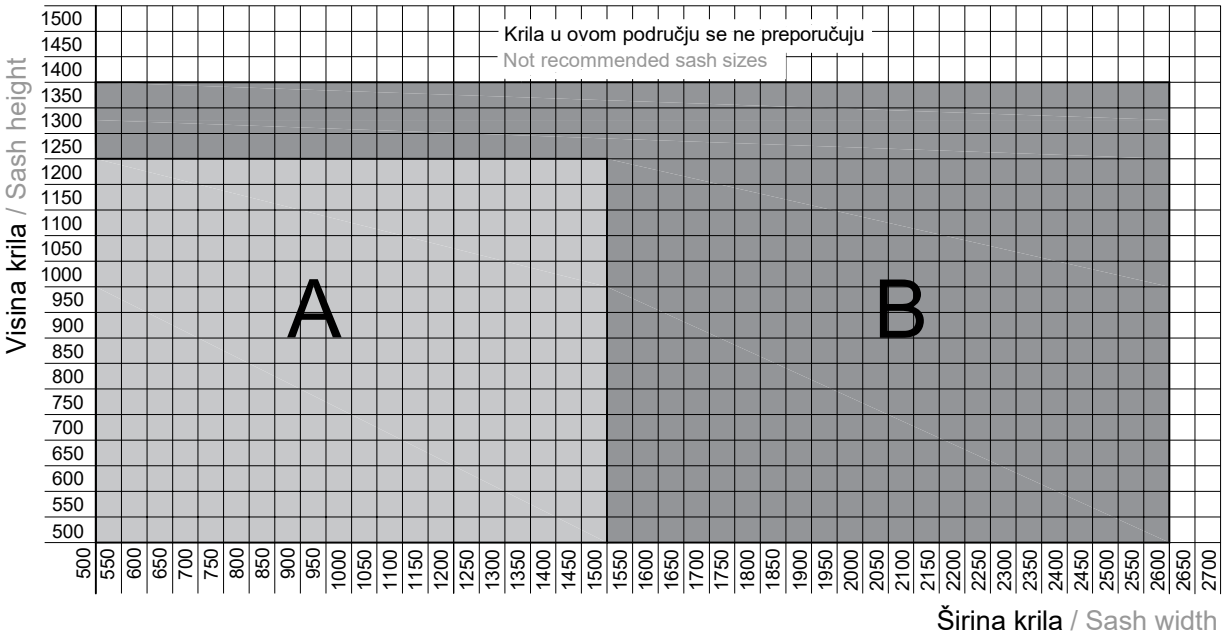
PREPORUKE ZA ODABIR PROFILA KRILA OVISNO O VELIČINI KRILA
RECOMMENDATIONS FOR SELECTION OF SASH PROFILE BASED ON THE SASH SIZE

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

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



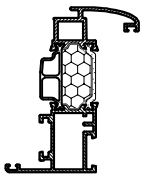
Nadsvjetlo
Top light



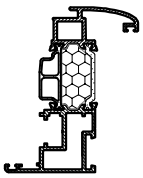
Grupa **A**

A≤90 kg

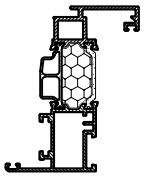
FT-0203HF



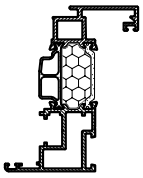
FT-0236HF



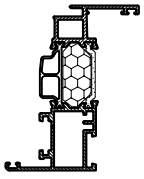
FT-0221HF



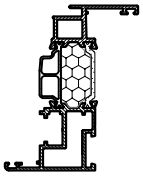
FT-0239HF



FT-0295HF



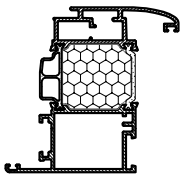
FT-0296HF



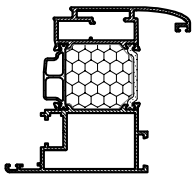
Grupa **B**

B≤170 kg

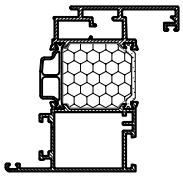
FT-0204HF



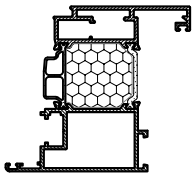
FT-0244HF



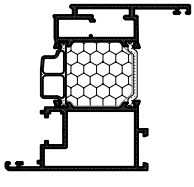
FT-0230HF



FT-0246HF



FT-1610HF



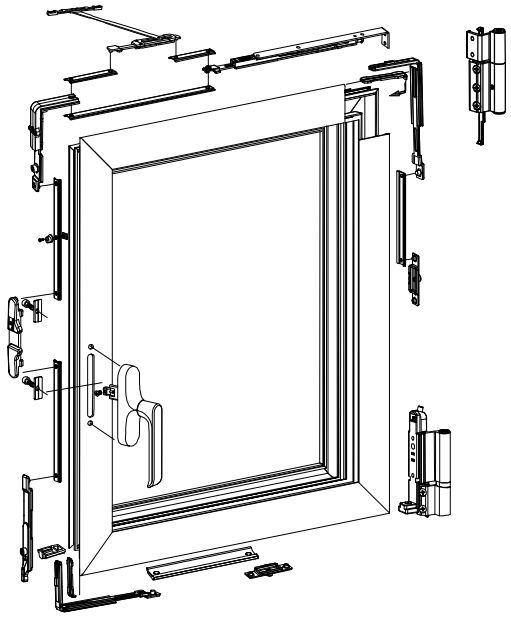
Prije konačnog odabira profila i dimenzija krila uzeti u obzir i ograničenja primjene okova prema preporuci proizvođača okova. Za izradu krila čije dimenzije se nalaze van graničnih dimenzija u dijagramu, staklo obavezno zalijepiti za profil krila (preporuke za lijepljenje /Knjiga B/ str. 204.11.010).

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 204.11.010).

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:

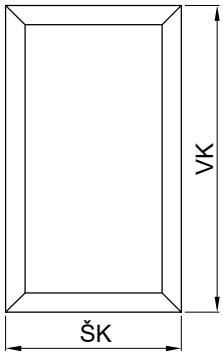
4135.00
4136.00
4137.00



Debljina stakla (mm)
Glass thickness (mm)

VK(mm) / ŠK(mm)	425	535	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
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

x **Neizvedivo** / Unfeasible

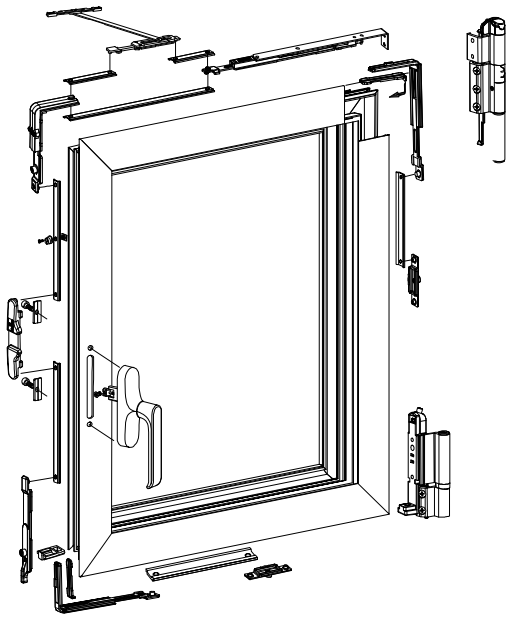


Debljina stakla
Glass thickness

mm	kg/m²
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

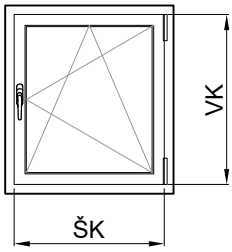


Debljina stakla (mm)
Glass thickness (mm)

VK(mm) / ŠK(mm)	425	535	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
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

x **Neizvedivo** / Unfeasible

OTKLOPNO-ZAOKRETNI MEHANIZAM - GIESSE FUTURA 3D (130 micro)
TILT-TURN MECHANISM - GIESSE FUTURA 3D (130 micro)



Maksimalna težina krila **140** kg
Maximum sash weight **140** kg

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

VK(mm) / ŠK(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	35	28	24	21	19	17	15	14	13	12	11	11	10	x
2900	35	29	25	22	20	18	16	15	14	13	12	11	10	10
2800	36	30	26	23	20	18	17	15	14	13	12	11	11	10
2700	38	31	27	24	21	19	17	16	15	13	13	12	11	10
2600	39	33	28	25	22	20	18	16	15	14	13	12	12	11
2500	44	37	31	27	24	22	20	18	17	16	15	14	13	11
2400	46	38	33	29	25	23	21	19	18	16	15	14	13	12
2300	48	40	34	30	27	24	22	20	18	17	16	15	14	12
2200	50	42	36	31	28	25	23	21	19	18	17	16	15	13
2100	50	44	37	33	29	26	24	22	20	19	17	16	15	13
2000	50	46	39	34	31	27	25	23	21	20	18	17	16	14
1900	50	48	41	36	32	29	26	24	22	21	19	18	16	14
1800	50	50	44	38	34	31	28	25	23	22	20	18	16	14
1700	50	50	46	40	36	32	29	27	25	23	21	18	16	14
1600	50	50	49	43	38	34	31	29	26	24	21	18	16	14
1500	50	50	50	46	41	37	33	31	27	24	21	18	16	14
1400	50	50	50	49	44	39	36	32	27	24	21	18	16	x
1300	50	50	50	50	47	42	38	32	27	24	21	18	x	x
1200	50	50	50	50	50	46	38	32	27	24	21	x	x	x
1100	50	50	50	50	50	46	38	32	27	24	x	x	x	x
1000	50	50	50	50	50	46	38	32	27	x	x	x	x	x
900	50	50	50	50	50	46	38	32	x	x	x	x	x	x
800	50	50	50	50	50	46	38	x	x	x	x	x	x	x
700	50	50	50	50	50	46	x	x	x	x	x	x	x	x

600

350

x **Neizvedivo** / Unfeasible

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

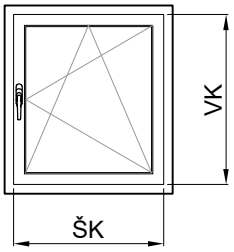
VK(mm) / ŠK(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	130	130	130	130	130	130	130	130	130	130	130	130	130	x
2900	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	139	125
1900	140	140	140	140	140	140	140	140	140	140	140	140	132	118
1800	140	140	140	140	140	140	140	140	140	140	140	133	125	112
1700	140	140	140	140	140	140	140	140	140	140	134	126	118	118
1600	140	140	140	140	140	140	140	140	140	135	126	118	111	105
1500	140	140	140	140	140	140	140	140	137	127	118	111	104	99
1400	140	140	140	140	140	140	140	138	127	118	110	104	97	x
1300	140	140	140	140	140	140	140	128	118	110	103	96	x	x
1200	140	140	140	140	140	140	129	118	109	101	95	x	x	x
1100	140	140	140	140	140	130	118	108	100	93	x	x	x	x
1000	140	140	140	140	131	118	108	99	91	x	x	x	x	x
900	140	140	140	133	118	106	97	89	x	x	x	x	x	x
800	140	140	135	118	105	95	86	x	x	x	x	x	x	x
700	140	138	118	104	92	83	x	x	x	x	x	x	x	x

600

350

x **Neizvedivo** / Unfeasible

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



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

VK(mm) / ŠK(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500
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

445

x **Neizvedivo** / Unfeasible

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

VK(mm) / ŠK(mm)	500	600	700	800	900	1000	1100	1200	1300	1400
2500	100	100	100	100	100	100	100	100	100	100
2400	100	100	100	100	100	100	100	100	100	100
2300	100	100	100	100	100	100	100	100	100	100
2200	100	100	100	100	100	100	100	100	100	100
2100	100	100	100	100	100	100	100	100	100	100
2000	100	100	100	100	100	100	100	100	100	100
1900	100	100	100	100	100	100	100	100	100	100
1800	100	100	100	100	100	100	100	100	100	100
1700	100	100	100	100	100	100	100	100	100	100
1600	100	100	100	100	100	100	100	100	100	99
1500	100	100	100	100	100	100	100	100	100	93
1400	100	100	100	100	100	100	100	100	93	87
1300	100	100	100	100	100	100	100	94	87	80
1200	100	100	100	100	100	100	95	87	80	74
1100	100	100	100	100	100	95	87	79	73	68
1000	100	100	100	100	96	87	79	72	67	x
900	100	100	100	98	87	78	71	65	x	x
800	100	100	99	87	77	69	63	x	x	x
700	100	100	87	76	67	61	x	x	x	x

600

445

x **Neizvedivo** / Unfeasible

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

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

VK(mm) / ŠK(mm)	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
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

470

x **Neizvedivo** / Unfeasible

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

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

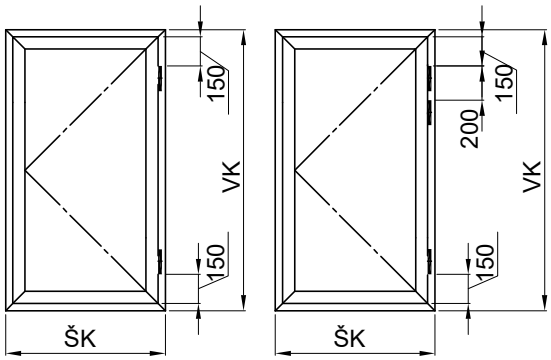
600

470

x **Neizvedivo** / Unfeasible

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

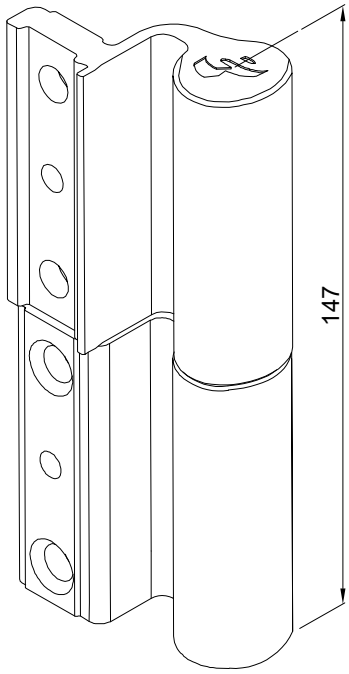
- TABLICE NOSIVOSTI SPOJNICA
- TABLE OF LOADS FOR HINGES



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 increaced 10%

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

VK / ŠK	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
2800	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	76/86	67/76	62/70	58/66
2600	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	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						

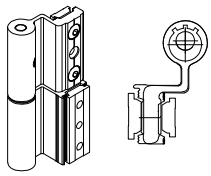
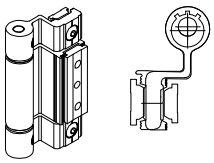
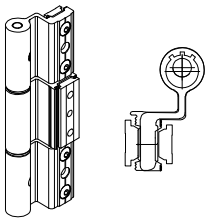


114.001.xx

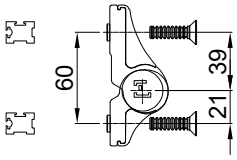
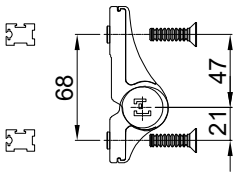
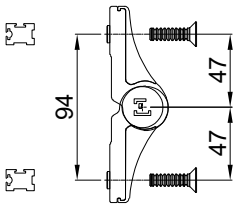
A (kg)
B (kg)

A - javna upotreba sa dvije spojnice
A - public use with two hinges
B - privatna upotreba sa dvije spojnice
B - private use with two hinge

- 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

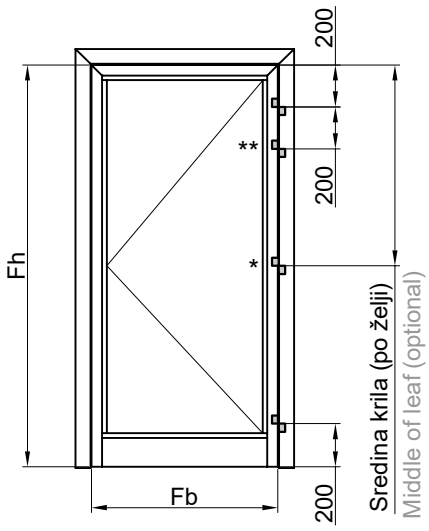
- TABLICE NOSIVOSTI ŠARKI
- TABLE OF LOADS FOR HINGES

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

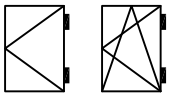
Fh = Visina krila
Leaf height

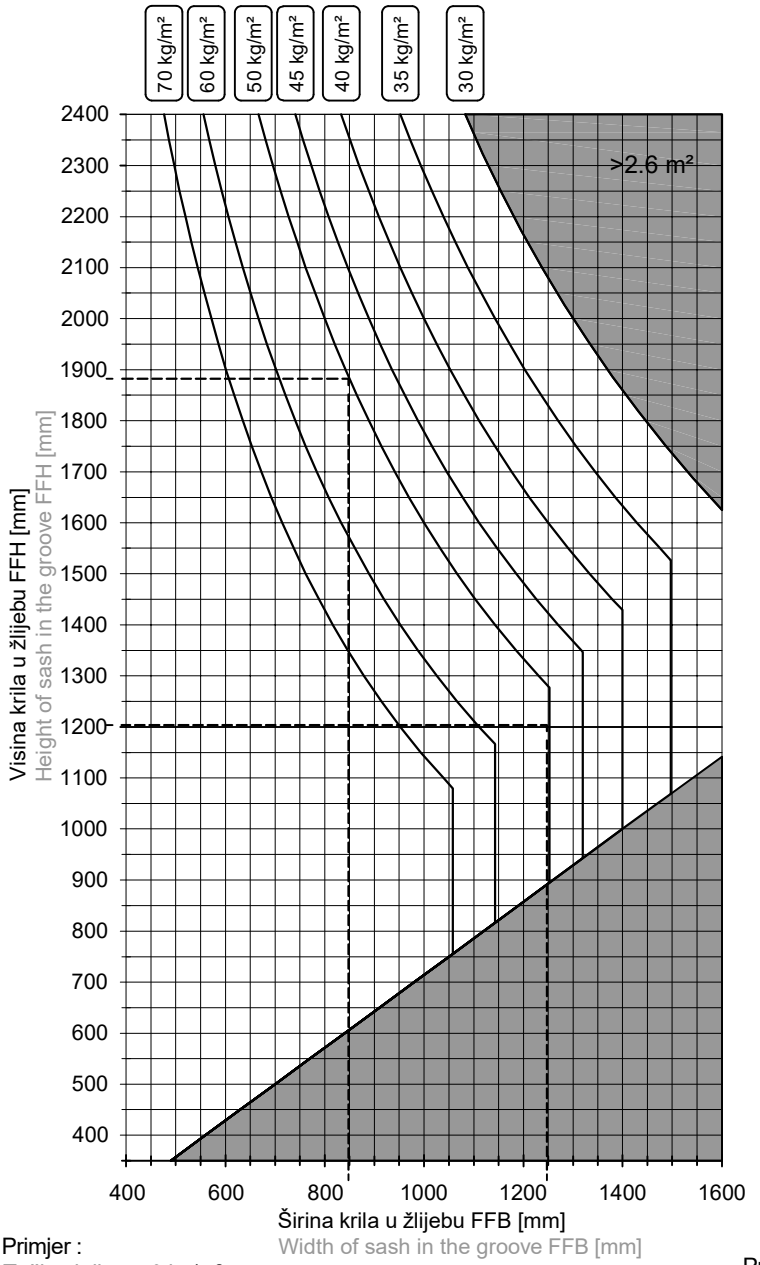
Fb = Širina krila
Leaf width



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

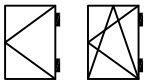


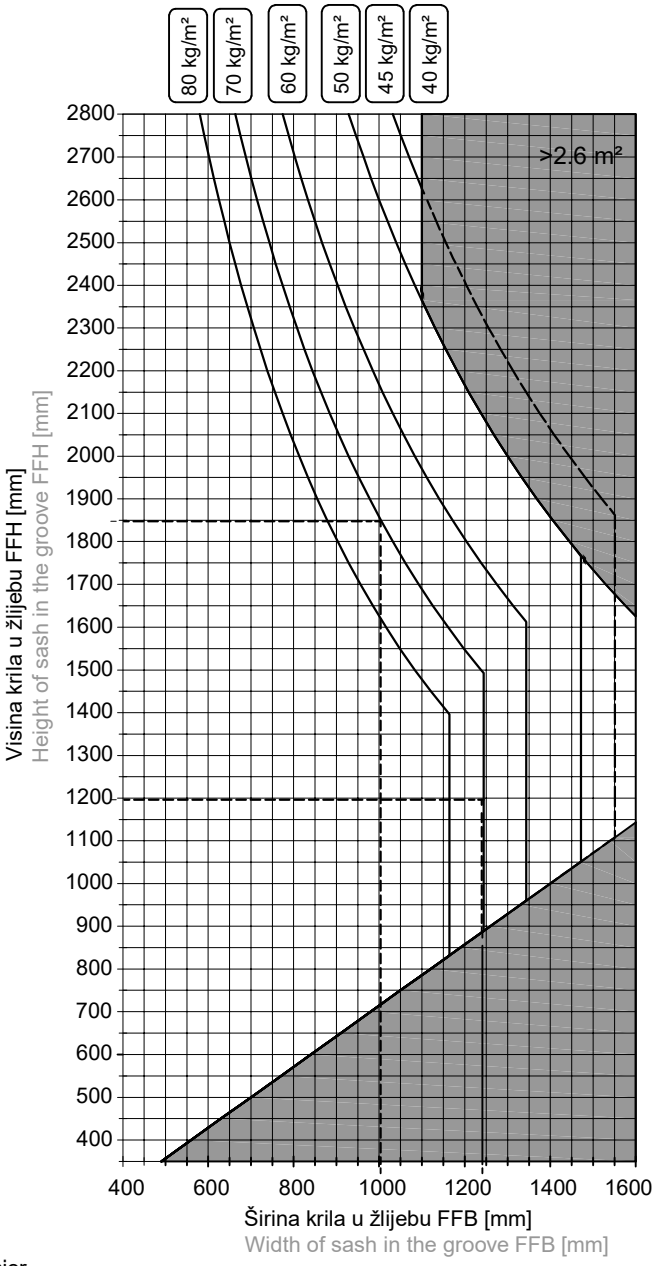


Primjer :
Težina krila = 50 kg/m²
Kod širine krila u žlijebu FFB od 850 mm dobijamo maksimalnu visinu krila u žlijebu FFH od 1880 mm.
Kod visine krila u žlijebu FFH od 1200 mm dobijamo maksimalnu širinu krila u žlijebu FFB od 1250 mm.
Napomena
Dozvoljene su dimenzije krila koje se nalaze samo lijevo od krivulje težina. Nedozvoljene dimenzije su sivo zatamnjene. Ovaj dijagram primjene je važeći samo u vezi sa pripadajućim crtežom 0-44708.

Example :
Sash weight = 50 kg/m²
At the width of the wing 850mm in the FFB groove, we get the maximum height of the wing in the FFH groove 1880 mm.
At the height of the wing 1200 mm in the FFH groove, we get the maximum width of the sash in the FFH groove 1250mm.
Remark
The autorized dimensions of the wings are located just to the left of the weight curve.
The unauthorized dimensions are gray dimmed. This application diagram is valid only in conjunction with the accompanying drawing 0-44708.

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



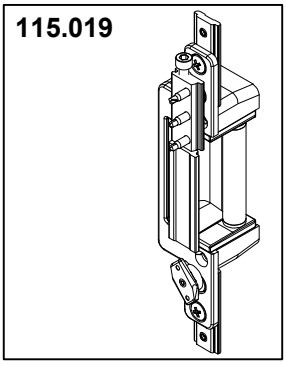


Primjer
Težina krila = 70 kg/m²
Kod širine krila u žlijebu FFB od 1000 mm dobijamo maksimalnu visinu krila u žlijebu FFH od 1850 mm.
Kod visine krila u žlijebu FFH od 1200 mm dobijamo maksimalnu širinu krila u žlijebu FFB od 1240 mm.
Napomena
Dozvoljene su dimenzije krila koje se nalaze lijevo od kriv. težina.
Nedozvoljene dimenzije su sivo zatamnjene.Ovaj dijagram primjene je važeći samo u vezi sa pripadajućim crtežom 0-44708.

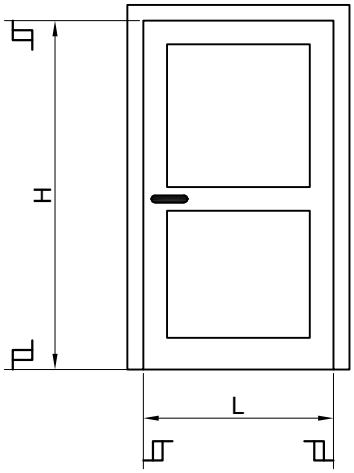
Example
Sash weight = 70 kg/m²
At the width of the wing 1000 mm in the FFB groove, we get the maximum height of the wing in the FFH groove 1850 mm.
At the height of the wing 1200 mm in the FFH groove, we get the maximum width of the sash in the FFH groove 1240mm.
Remark
The autorized dimensions of the wings are located just to the left of the weight curve.
The unauthorized dimensions are gray dimmed. This application diagram is valid only in conjunction with the accompanying 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 SASH 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

H \ W	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800
3000	1	1	1	1	1	1	1	1	1	0.93	0.84	0.76	
2900	1	1	1	1	1	1	1	1	1	0.88	0.80	0.74	
2800	1	1	1	1	1	1	1	1	0.93	0.83	0.76	0.71	
2700	1	1	1	1	1	1	1	1	0.88	0.79	0.72	0.68	
2600	1	1	1	1	1	1	1	0.93	0.83	0.75	0.69	0.65	
2500	1	1	1	1	1	1	1	0.87	0.78	0.71	0.67	0.63	
2400	1	1	1	1	1	1	0.93	0.81	0.74	0.68	0.64	0.61	
2300	1	1	1	1	1	1	0.85	0.76	0.70	0.65	0.61	0.59	
2200 (Primjer →)	1	1	1	1	1	0.91	0.80	0.72	0.67	0.63	0.59	0.57	
2100	1	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	
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													

W →
↑ Primjer

Za dobivanje dozvoljene najveće težine krila (P) pomnožite vrijednost Pmax odabranu u tablici maksimalne nosivosti (str. 204.02.021, 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 dozovljena težina krila za zadane dimenzije iznosi 122 kg
Potrebne 3 šarke (iz tablice 2 na stranici 204.02.021)

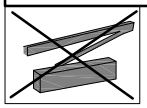
To obtain allowed leaf maximum weight (P) multiply the Pmax value chosen in the Maximum load chart (p. 208.02.024 table1) with the weight reduction coefficient (CRP) corresponding to the leaf size (W x H).

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 wing weight for the given dimensions is 122 kg
3 hinges required (from table 2 on page 204.02.021)

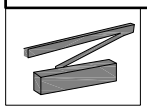
TABLICE ZA SKRIVENU ŠARKU GIESSE -115.019
TABLES FOR CONCEALED DOOR HINGE -115.019

Tablica 1 Table 1

Tablica odabira koeficijenta Pmax ovisno o stvarnoj težini krila (Pstvarno), slučaj bez zatvarača Table for selecting the Pmax coefficient depending on the actual weight (Preal) of the sash, case without a door closer
Pstvarno (Preal) ≤ 120kg, → Pmax = 120 kg
120 kg < Pstvarno (Preal) ≤ 135kg, → Pmax = 135 kg
135 kg < Pstvarno (Preal) ≤ 150kg, → Pmax = 150 kg



Tablica odabira koeficijenta Pmax ovisno o stvarnoj težini krila (Pstvarno), slučaj sa zatvaračem Table for selecting the Pmax coefficient depending on the actual weight (Preal) of the sash, case with a door closer
Pstvarno (Preal) ≤ 100kg, → Pmax = 100 kg
100 kg < Pstvarno (Preal) ≤ 120kg, → Pmax = 120 kg
120 kg < Pstvarno (Preal) ≤ 135kg, → Pmax = 135 kg

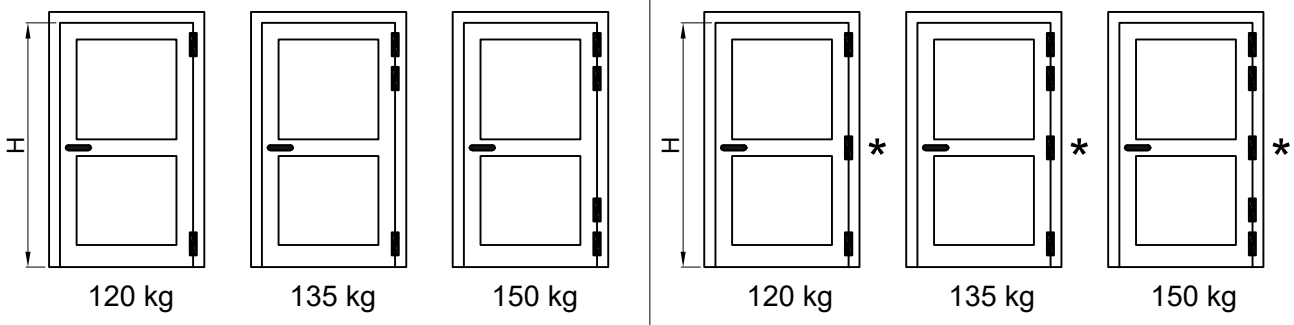


Tablica 2 Table 2

- 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

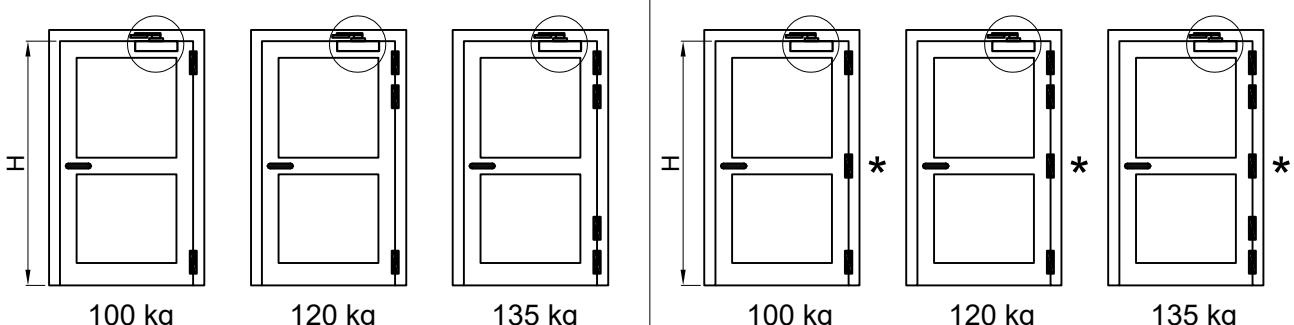
H < 2500	H ≥ 2500



* Preporuka Recommended

Upotreba sa zatvaračem Usage with door closer

H < 2500	H ≥ 2500

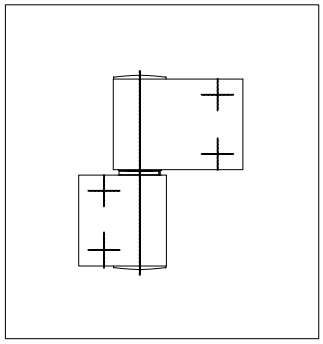


* Preporuka Recommended

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

Visina krila / Leaf height	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450
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	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										

Širina krila / Leaf width

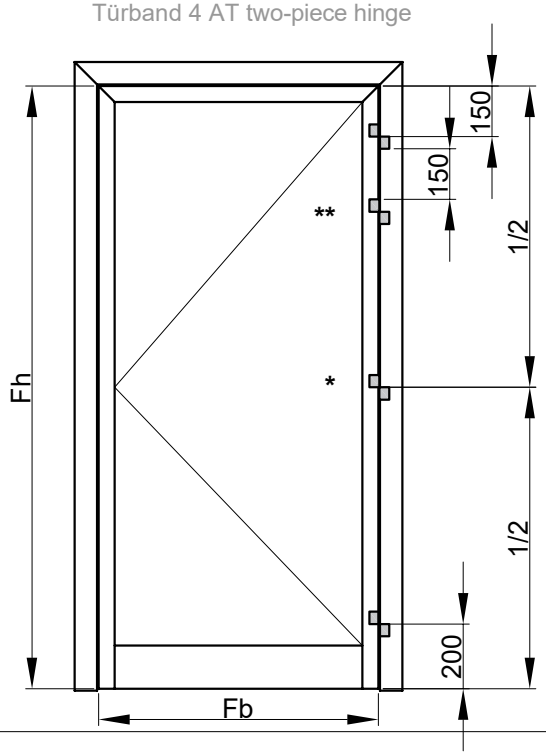


Napomene proizvođača šarki (Dr. Hahn):
Svi podaci vrijede ako su zadovoljeni uvjeti pravilne montaže (gornja šarka 150 mm od vrha krila, donja 200 mm od dna krila), za korištenje dvije šarke kod srednje ili niskofrekventne upotrebe.
Za primjenu na vratima sa zatvaračem, automatskim vratima ili kod visokofrekventne 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

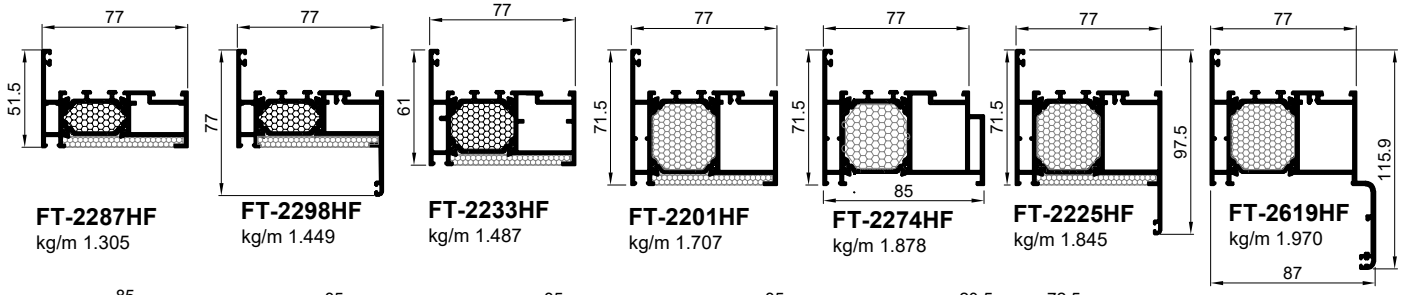


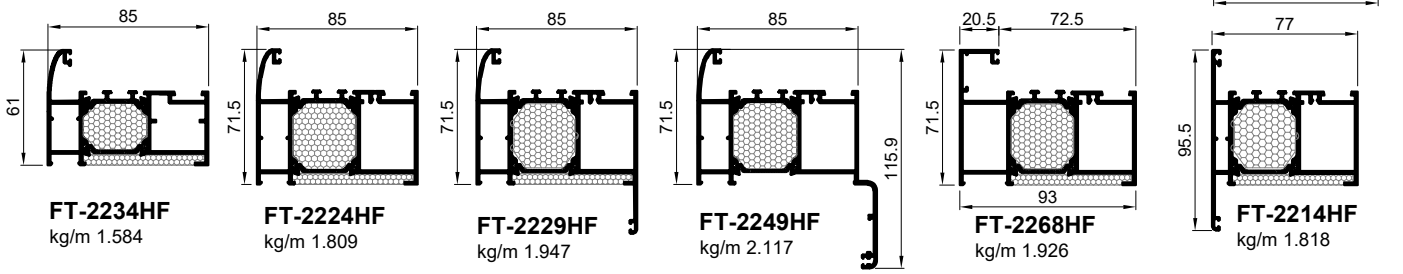
* Dodatna šarka za bolje brtvljenje preporučuje se za visine krila iznad 2200 mm.
** Na vratima s ugrađenim zatvaračem kao i na vratima za javnu upotrebu potrebno je koristiti najmanje tri šarke.
* Additional door hinge for better sealing pressure is recommended for leaf height over 2200 mm.
** Doors fitted with door closers as well as doors for public use should use at least three hinges.

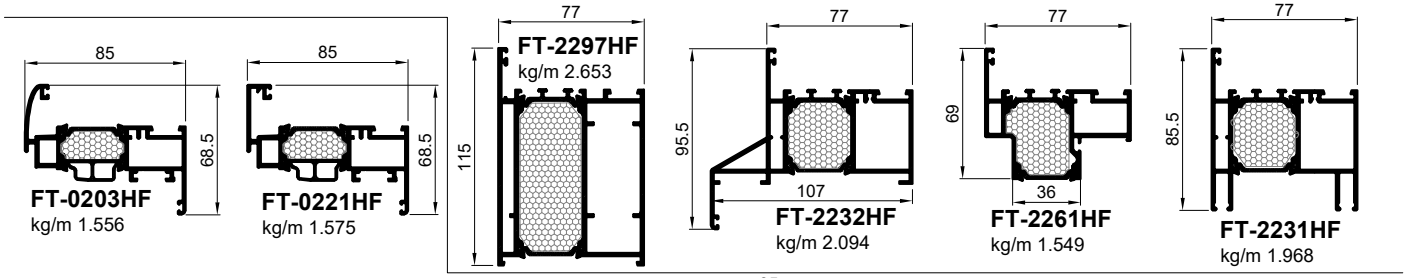
Napomena:
Ne podmazivati, čahure su napravljene od PVC-a koji ne zahtijeva održavanje!
Remark:
Bearing bushes made of maintenance-free PVC - do not lubricate!

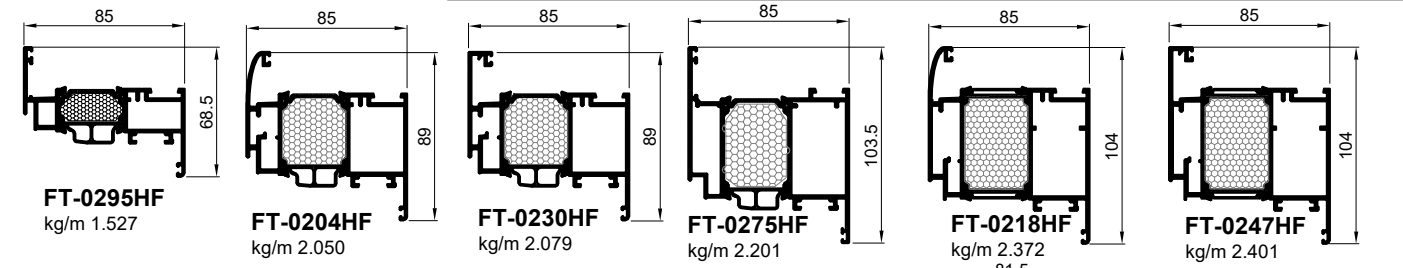
Fh = Visina krila
Leaf height
Fb = Širina krila
Leaf width

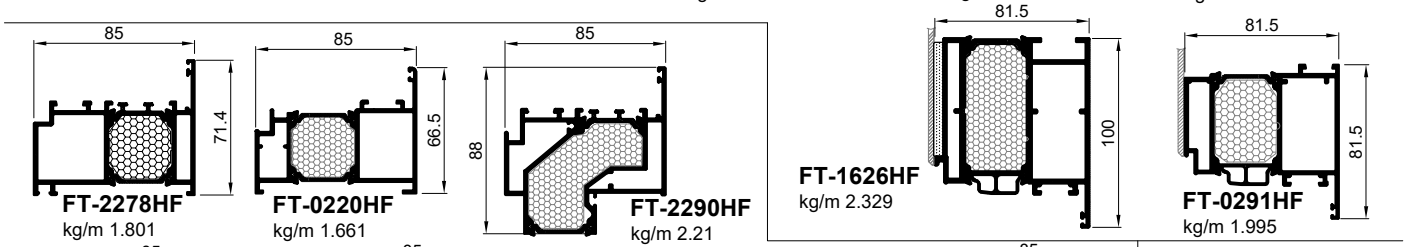
Profili
Profiles

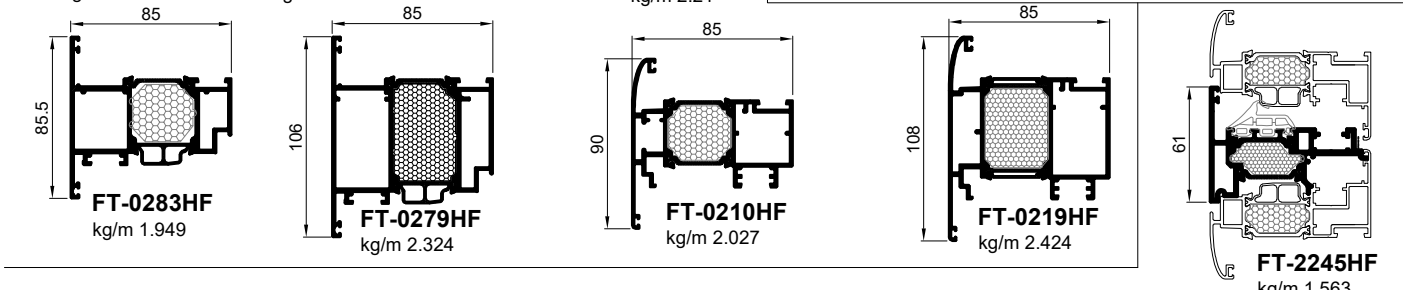

77
51.5
FT-2287HF
kg/m 1.305
77
77
FT-2298HF
kg/m 1.449
77
61
FT-2233HF
kg/m 1.487
77
71.5
FT-2201HF
kg/m 1.707
77
71.5
85
FT-2274HF
kg/m 1.878
77
71.5
97.5
FT-2225HF
kg/m 1.845
77
115.9
87
FT-2619HF
kg/m 1.970

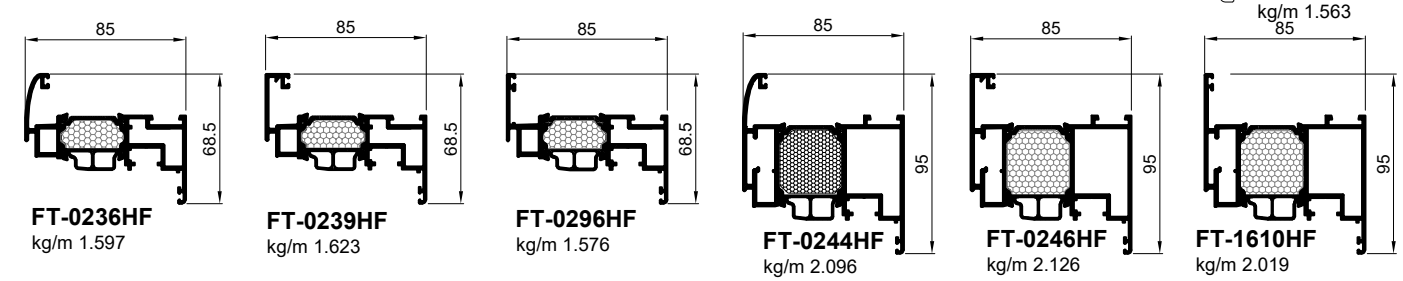

85
61
FT-2234HF
kg/m 1.584
85
71.5
FT-2224HF
kg/m 1.809
85
71.5
FT-2229HF
kg/m 1.947
85
71.5
115.9
FT-2249HF
kg/m 2.117
20.5
72.5
71.5
93
FT-2268HF
kg/m 1.926
77
95.5
FT-2214HF
kg/m 1.818

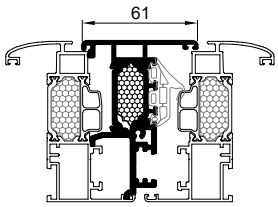

85
68.5
FT-0203HF
kg/m 1.556
85
68.5
FT-0221HF
kg/m 1.575
77
115
FT-2297HF
kg/m 2.653
77
95.5
107
FT-2232HF
kg/m 2.094
77
69
36
FT-2261HF
kg/m 1.549
77
85.5
FT-2231HF
kg/m 1.968


85
68.5
FT-0295HF
kg/m 1.527
85
89
FT-0204HF
kg/m 2.050
85
89
FT-0230HF
kg/m 2.079
85
103.5
FT-0275HF
kg/m 2.201
85
104
FT-0218HF
kg/m 2.372
85
104
FT-0247HF
kg/m 2.401

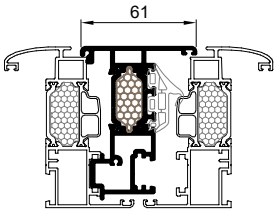

85
71.4
FT-2278HF
kg/m 1.801
85
66.5
FT-0220HF
kg/m 1.661
85
88
FT-2290HF
kg/m 2.21
81.5
100
FT-1626HF
kg/m 2.329
81.5
81.5
FT-0291HF
kg/m 1.995


85
85.5
FT-0283HF
kg/m 1.949
85
106
FT-0279HF
kg/m 2.324
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90
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kg/m 2.027
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108
FT-0219HF
kg/m 2.424
61
FT-2245HF
kg/m 1.563

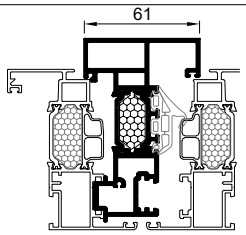

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68.5
FT-0236HF
kg/m 1.597
85
68.5
FT-0239HF
kg/m 1.623
85
68.5
FT-0296HF
kg/m 1.576
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85
95
FT-1610HF
kg/m 2.019



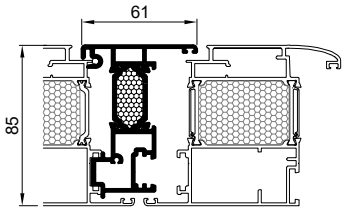
FT-2286HF
kg/m 1.503



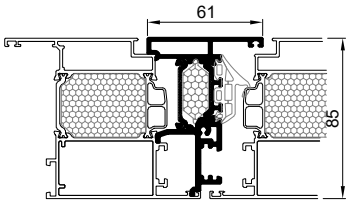
FT-2211HF
kg/m 1.518



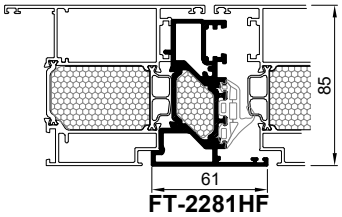
FT-2271HF
kg/m 1.845



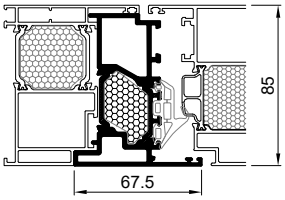
FT-0211-AHF
kg/m 1.557



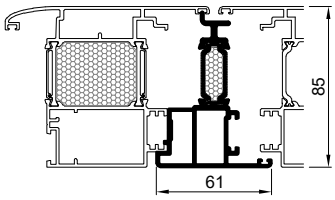
FT-2277HF
kg/m 1.515



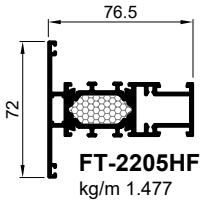
FT-2281HF
kg/m 1.547



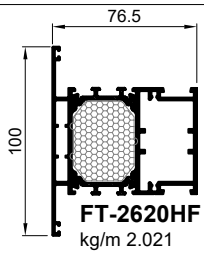
FT-2280HF
kg/m 1.599



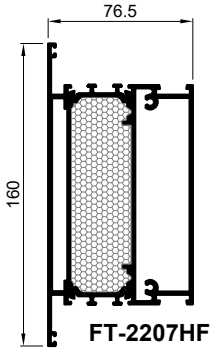
FT-0213-AHF
kg/m 1.362



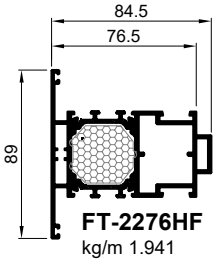
FT-2205HF
kg/m 1.477



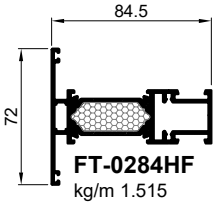
FT-2620HF
kg/m 2.021



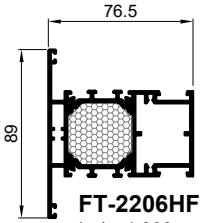
FT-2207HF
kg/m 3.502



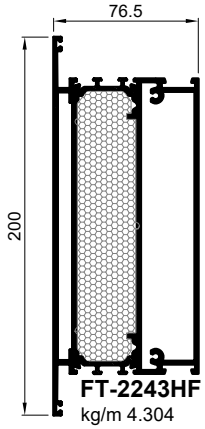
FT-2276HF
kg/m 1.941



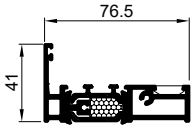
FT-0284HF
kg/m 1.515



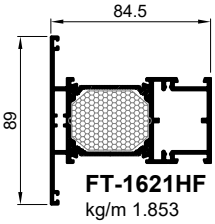
FT-2206HF
kg/m 1.808



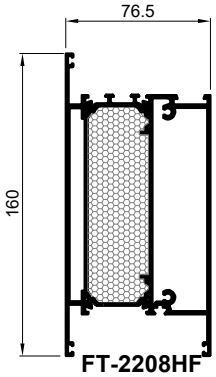
FT-2243HF
kg/m 4.304



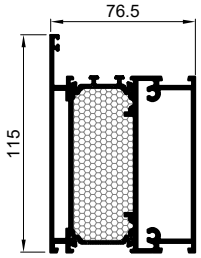
FT-2614HF
kg/m 1.300



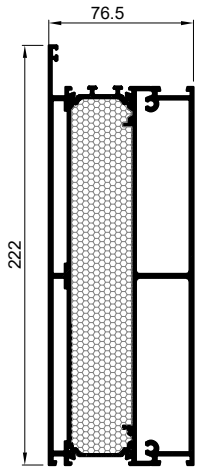
FT-1621HF
kg/m 1.853



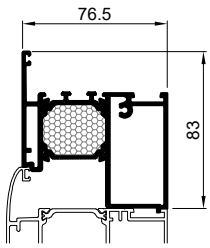
FT-2208HF
kg/m 3.559



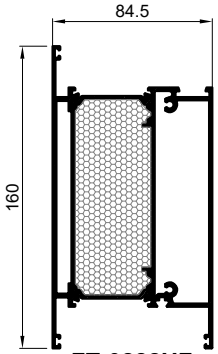
FT-2265HF
kg/m 2.834



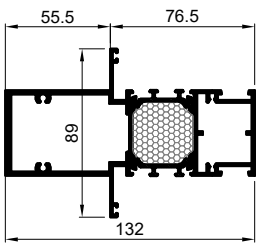
FT-2264HF
kg/m 5.418



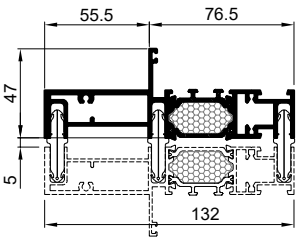
FT-2228HF
kg/m 1.775



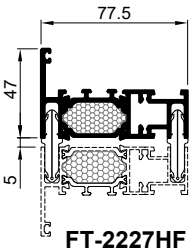
FT-0282HF
kg/m 3.598



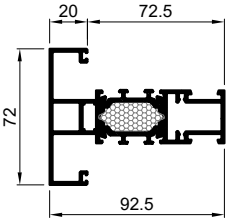
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kg/m 2.730



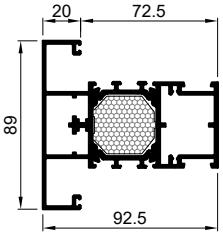
FT-2226HF
kg/m 2.148



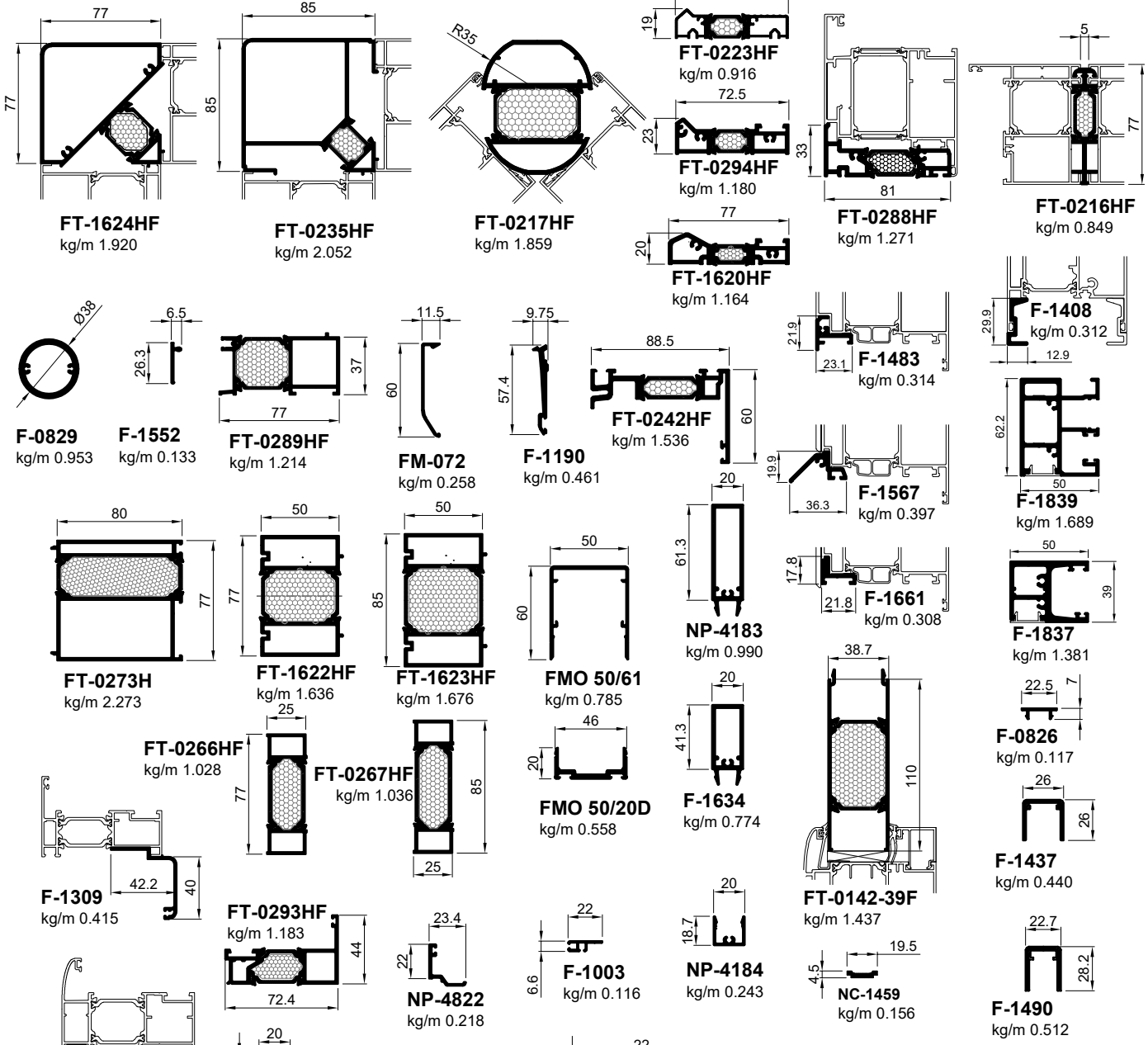
FT-2227HF
kg/m 1.380



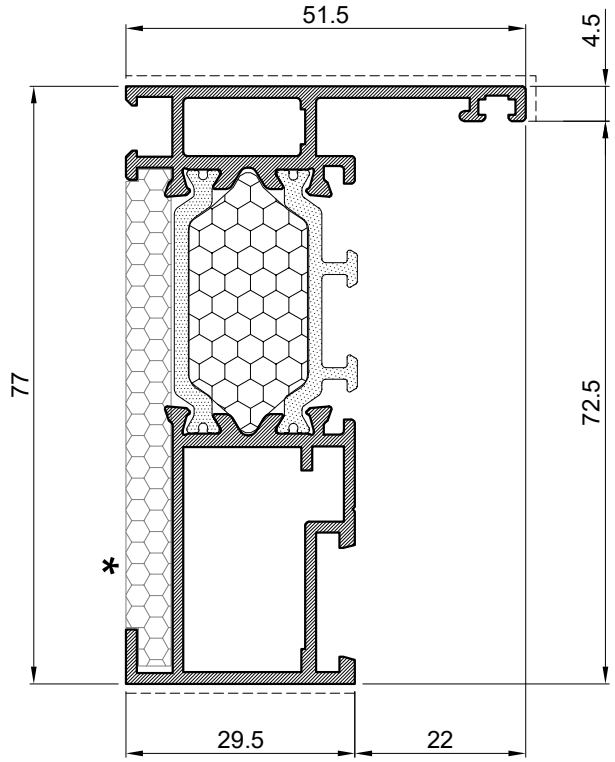
FT-2269HF
kg/m 1.835



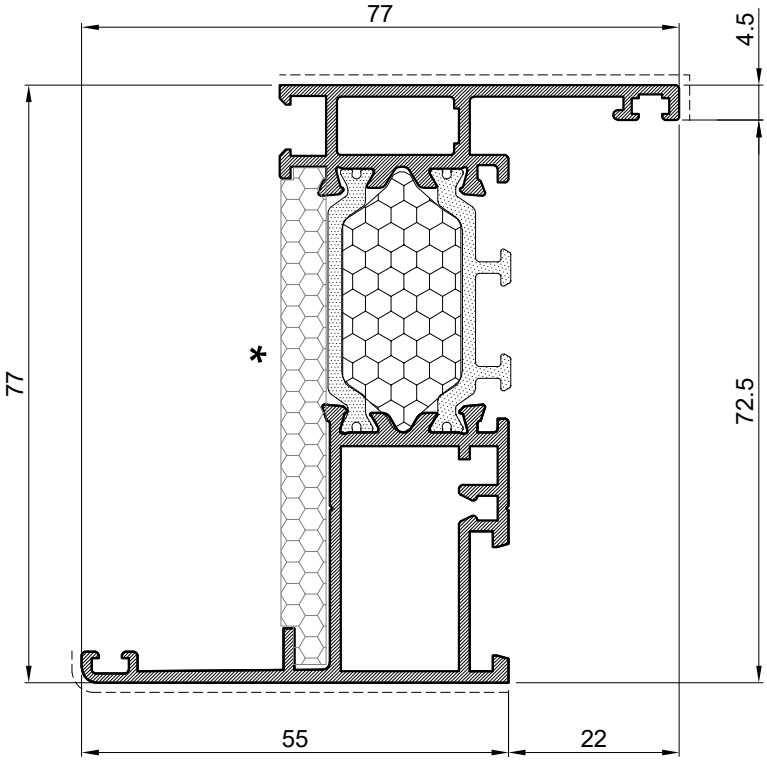
FT-2270HF
kg/m 2.213


77
77
FT-1624HF
kg/m 1.920
85
85
FT-0235HF
kg/m 2.052
R35
FT-0217HF
kg/m 1.859
72.5
19
FT-0223HF
kg/m 0.916
72.5
23
FT-0294HF
kg/m 1.180
77
20
FT-1620HF
kg/m 1.164
33
81
FT-0288HF
kg/m 1.271
5
77
FT-0216HF
kg/m 0.849
Ø38
F-0829
kg/m 0.953
6.5
26.3
F-1552
kg/m 0.133
37
77
FT-0289HF
kg/m 1.214
11.5
60
FM-072
kg/m 0.258
9.75
57.4
F-1190
kg/m 0.461
88.5
60
FT-0242HF
kg/m 1.536
21.9
23.1
F-1483
kg/m 0.314
29.9
12.9
F-1408
kg/m 0.312
19.9
36.3
F-1567
kg/m 0.397
62.2
50
F-1839
kg/m 1.689
80
77
FT-0273H
kg/m 2.273
50
77
FT-1622HF
kg/m 1.636
50
85
FT-1623HF
kg/m 1.676
50
60
FMO 50/61
kg/m 0.785
20
61.3
NP-4183
kg/m 0.990
17.8
21.8
F-1661
kg/m 0.308
50
39
F-1837
kg/m 1.381
25
77
FT-0266HF
kg/m 1.028
FT-0267HF
kg/m 1.036
85
25
46
20
FMO 50/20D
kg/m 0.558
20
41.3
F-1634
kg/m 0.774
38.7
110
FT-0142-39F
kg/m 1.437
22.5
7
F-0826
kg/m 0.117
26
26
F-1437
kg/m 0.440
42.2
40
F-1309
kg/m 0.415
FT-0293HF
kg/m 1.183
44
72.4
23.4
22
NP-4822
kg/m 0.218
22
6.6
F-1003
kg/m 0.116
20
18.7
NP-4184
kg/m 0.243
19.5
4.5
NC-1459
kg/m 0.156
22.7
28.2
F-1490
kg/m 0.512
30
22.6
F-1482
kg/m 0.252
20
14
Z40-657
kg/m 0.186
24
8
F-0228
kg/m 0.153
16.2
F-1842
kg/m 0.181
22
22
060350
kg/m 0.285
10.5
Z40-664
kg/m 0.243
27.5
F-1575
kg/m 0.327
2
Z40-660
kg/m 0.179
20.5
Z40-644
kg/m 0.275
10.5
Z40-647
kg/m 0.226
12
F-0784
kg/m 0.330
30.5
Z40-668
kg/m 0.326
5.5
Z40-656
kg/m 0.215
25.5
Z40-658
kg/m 0.318
15.5
M45-740
kg/m 0.258
15.5
Z40-665
kg/m 0.272
33.5
F-1590
kg/m 0.346
10.5
Z40-636
kg/m 0.261
30.5
Z40-653
kg/m 0.348
20.5
Z40-646
kg/m 0.286
20.5
Z40-666
kg/m 0.289
35.5
Z40-669
kg/m 0.347
15.5
M45-709
kg/m 0.269
35.5
Z40-659
kg/m 0.359
30.5
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Z40-667
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40.5
Z40-670
kg/m 0.373

M 1:4

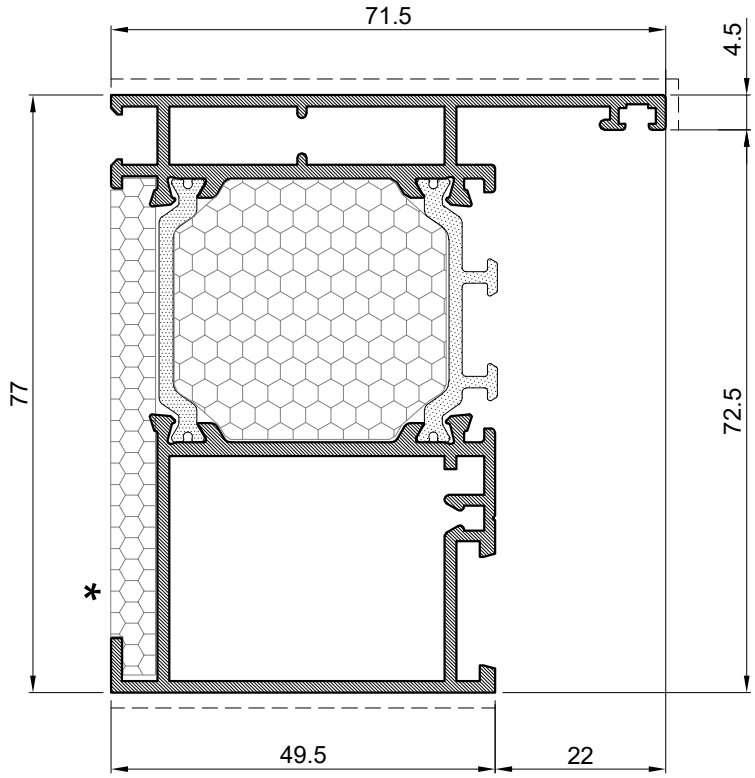


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2287HF**	
Težina Weight	kg/m	1.305
Opseg Perimeter	mm	418
Moment inercije Moment of inertia	Ix (cm4)	24.66
	Iy (cm4)	5.68
	Wx (cm3)	7.87
	Wy (cm3)	1.73
L	mm	6500

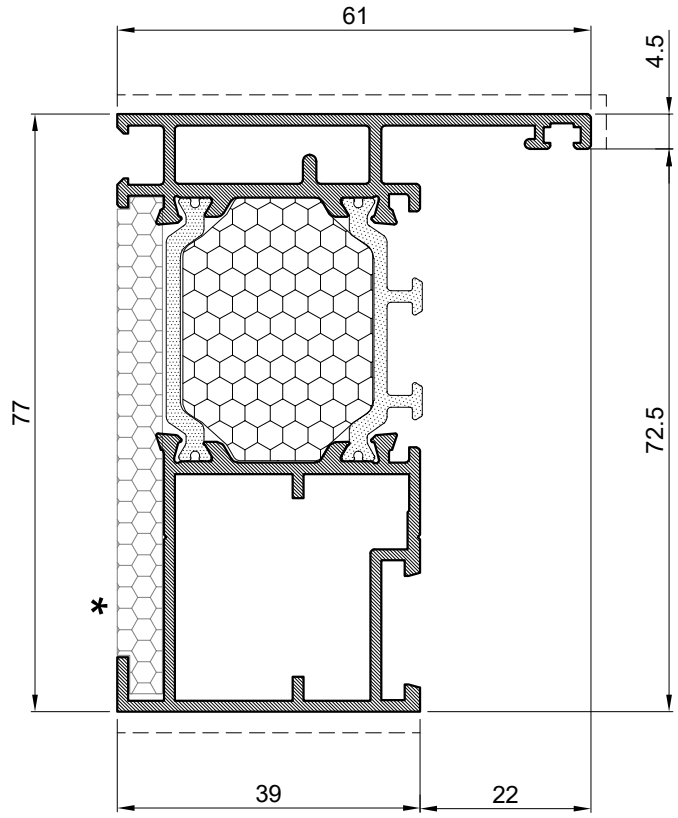


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2298HF**	
Težina Weight	kg/m	1.449
Opseg Perimeter	mm	479
Moment inercije Moment of inertia	Ix (cm4)	29.96
	Iy (cm4)	10.17
	Wx (cm3)	10.46
	Wy (cm3)	2.47
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

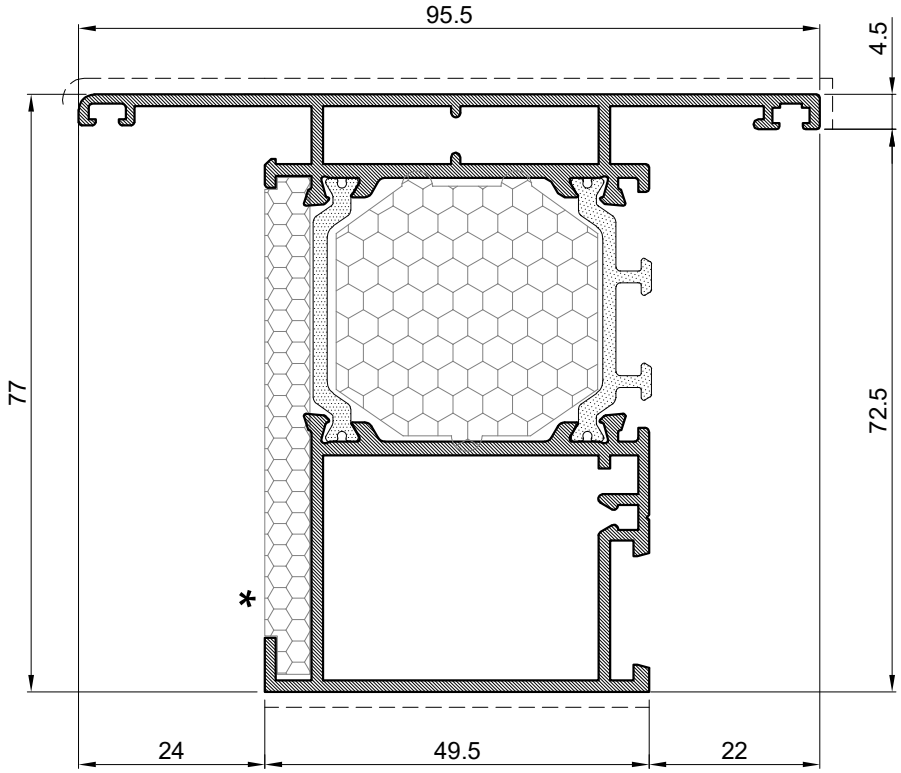


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2201HF**	
Težina Weight	kg/m	1.707
Opseg Perimeter	mm	448
Moment inercije Moment of inertia	Ix (cm4)	33.69
	Iy (cm4)	18.71
	Wx (cm3)	10.66
	Wy (cm3)	4.41
L	mm	6500

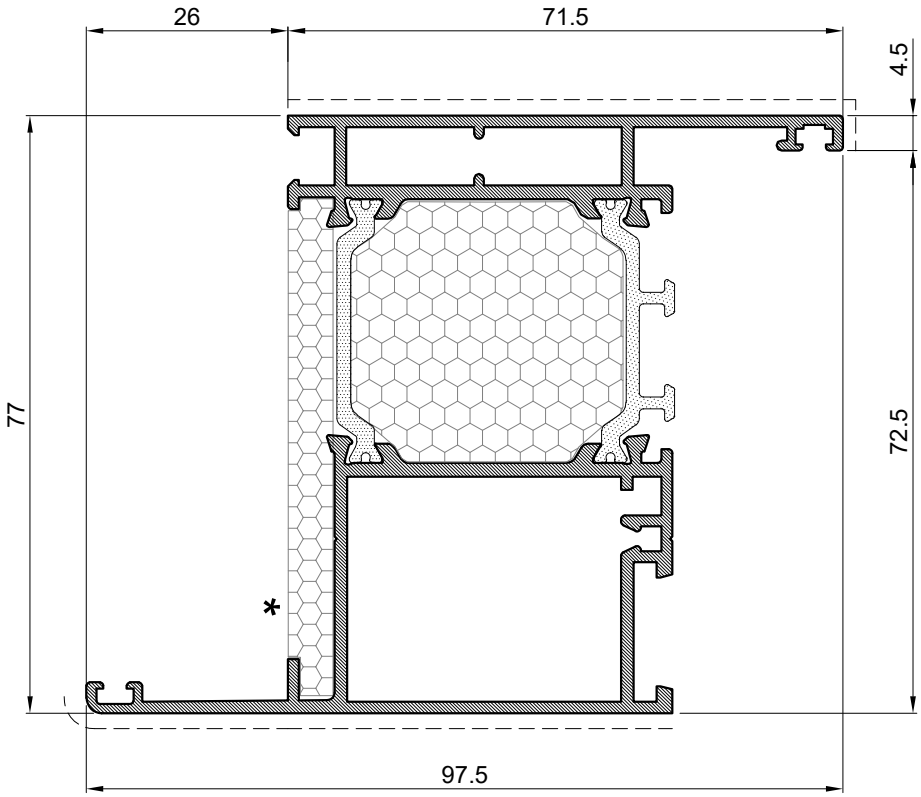


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2233HF**	
Težina Weight	kg/m	1.487
Opseg Perimeter	mm	427
Moment inercije Moment of inertia	Ix (cm4)	28.91
	Iy (cm4)	10.38
	Wx (cm3)	9.1
	Wy (cm3)	2.77
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

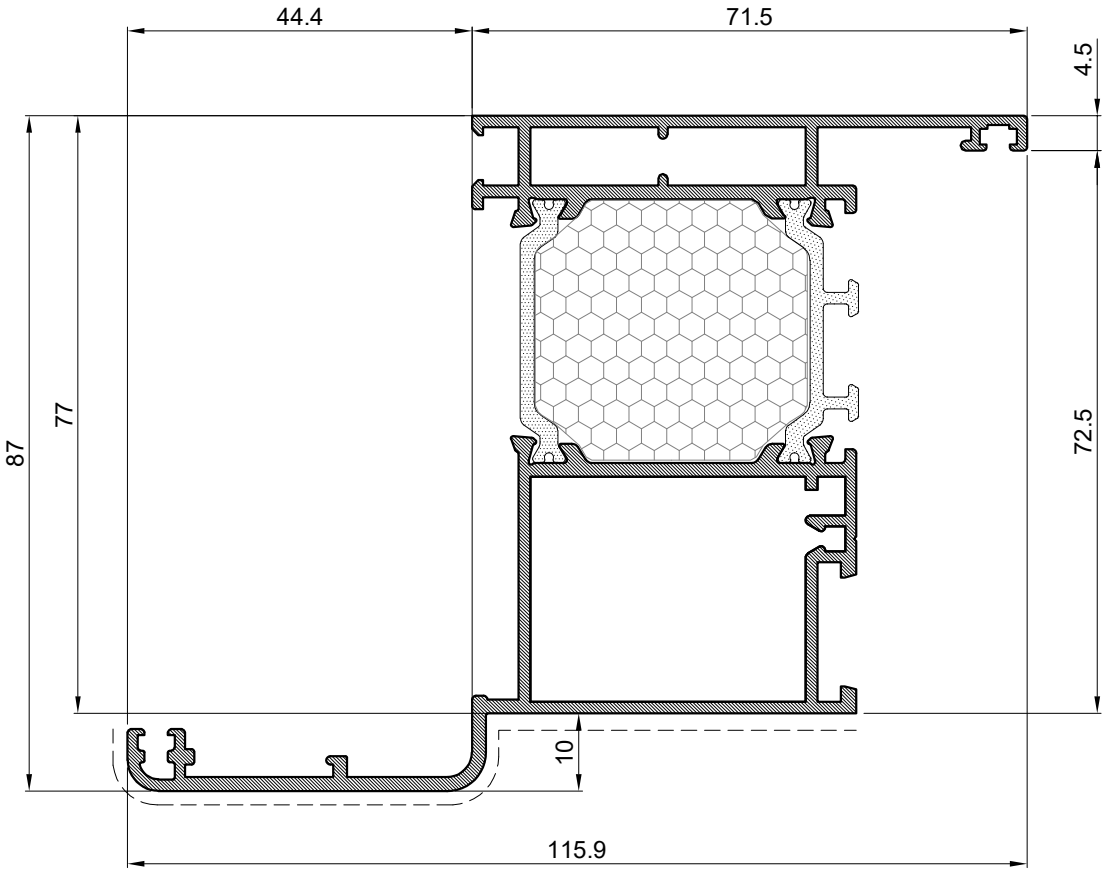


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2214HF**	
Težina Weight	kg/m	1.818
Opseg Perimeter	mm	533
Moment inercije Moment of inertia	Ix (cm4)	36.52
	Iy (cm4)	25.45
	Wx (cm3)	11.04
	Wy (cm3)	5.08
L	mm	6500



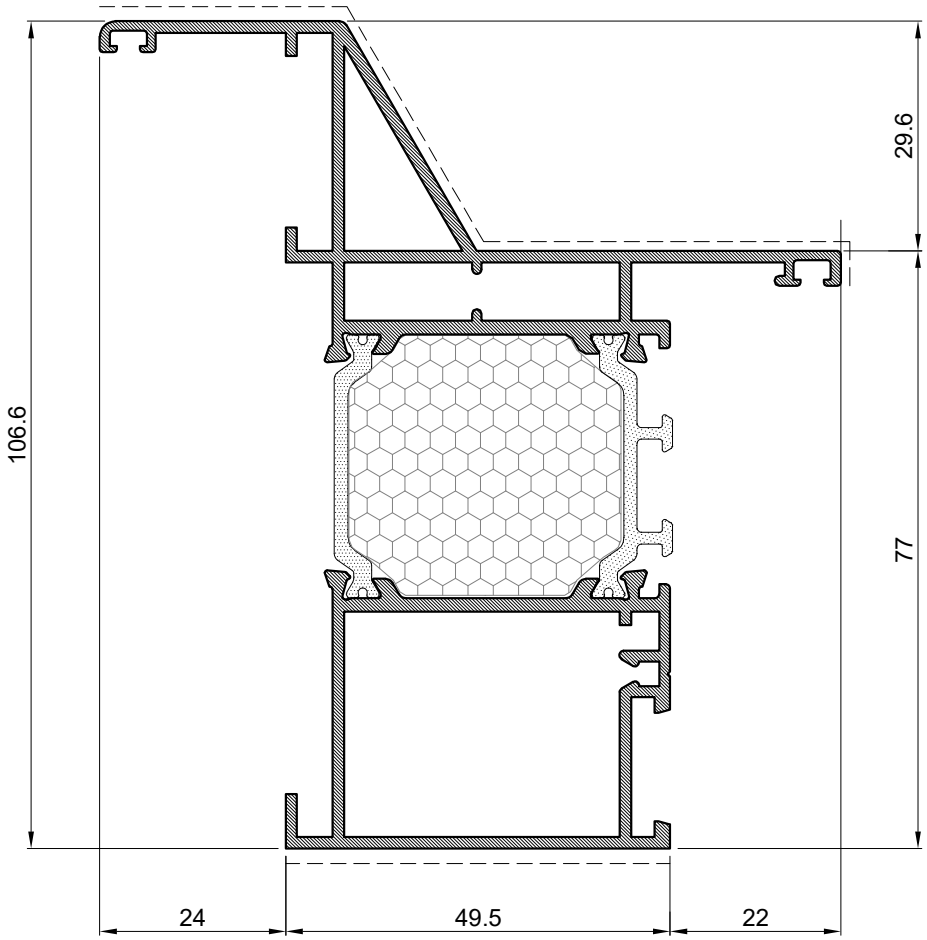
Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2225HF**	
Težina Weight	kg/m	1.845
Opseg Perimeter	mm	537
Moment inercije Moment of inertia	Ix (cm4)	39.52
	Iy (cm4)	26.92
	Wx (cm3)	16.57
	Wy (cm3)	5.2
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

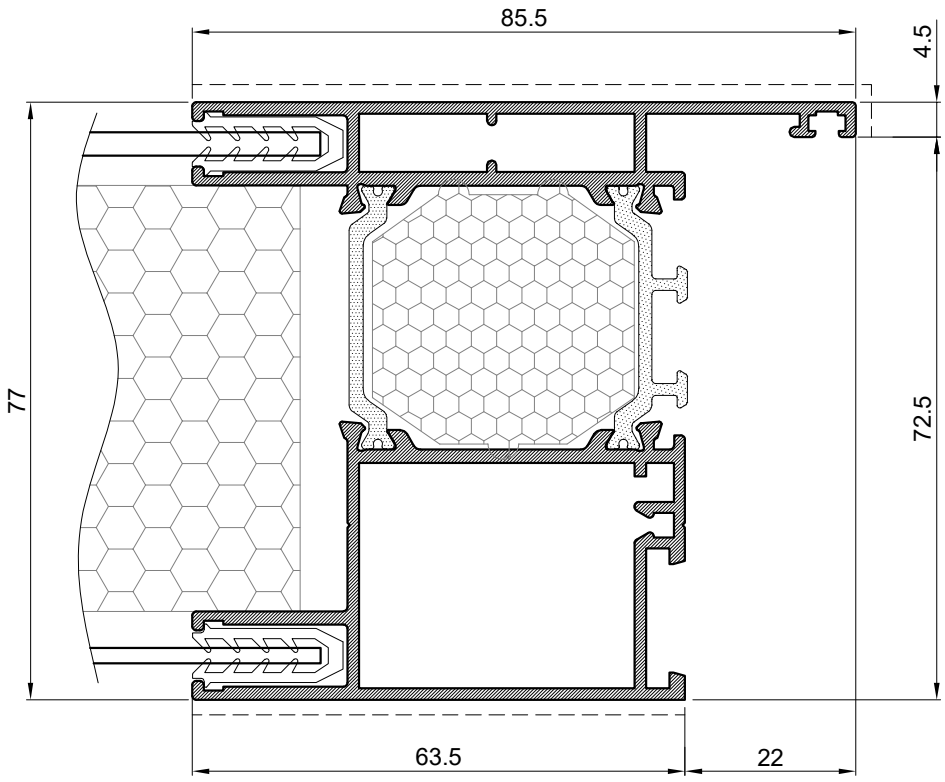


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2619HF**	
Težina Weight	kg/m	1.970
Opseg Perimeter	mm	533
Moment inercije Moment of inertia	Ix (cm4)	52.66
	Iy (cm4)	46.92
	Wx (cm3)	15.95
	Wy (cm3)	7.27
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

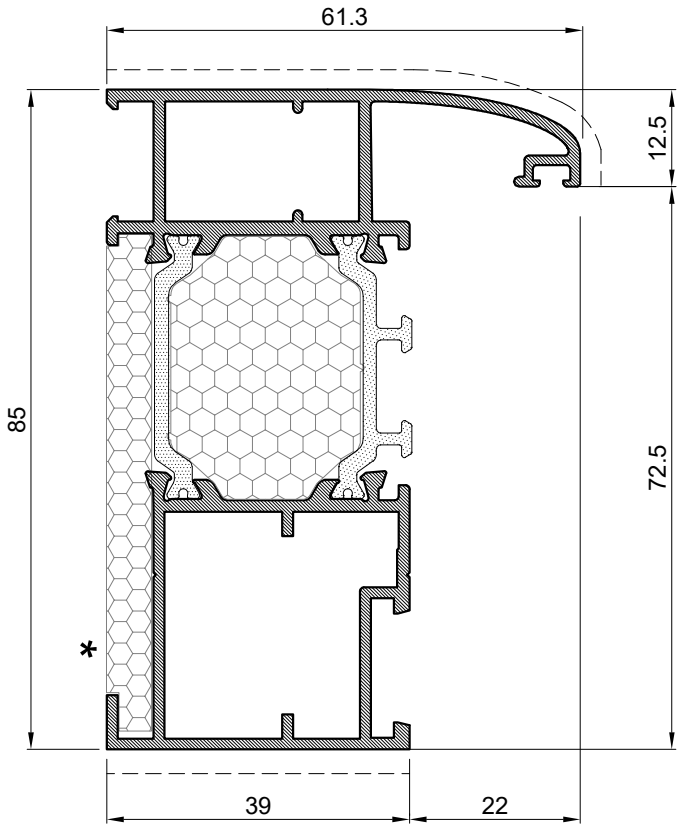


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2232HF**	
Težina Weight	kg/m	2.094
Opseg Perimeter	mm	568
Moment inercije Moment of inertia	Ix (cm4)	60.61
	Iy (cm4)	27.83
	Wx (cm3)	15
	Wy (cm3)	5.81
L	mm	6500

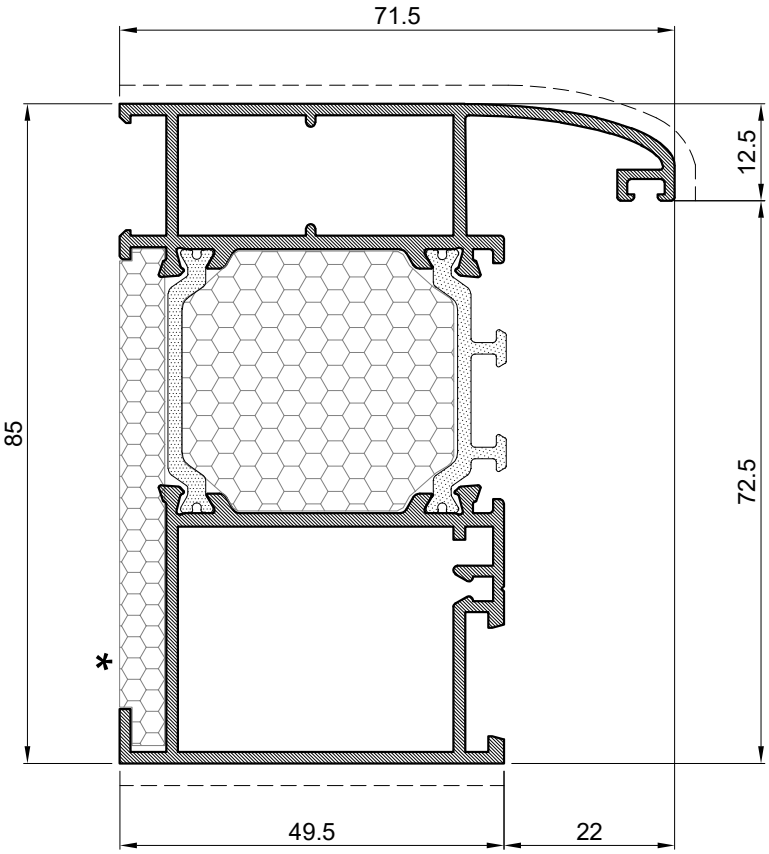


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2231HF**	
Težina Weight	kg/m	1.968
Opseg Perimeter	mm	587
Moment inercije Moment of inertia	Ix (cm4)	41.33
	Iy (cm4)	29.33
	Wx (cm3)	13.38
	Wy (cm3)	6.15
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

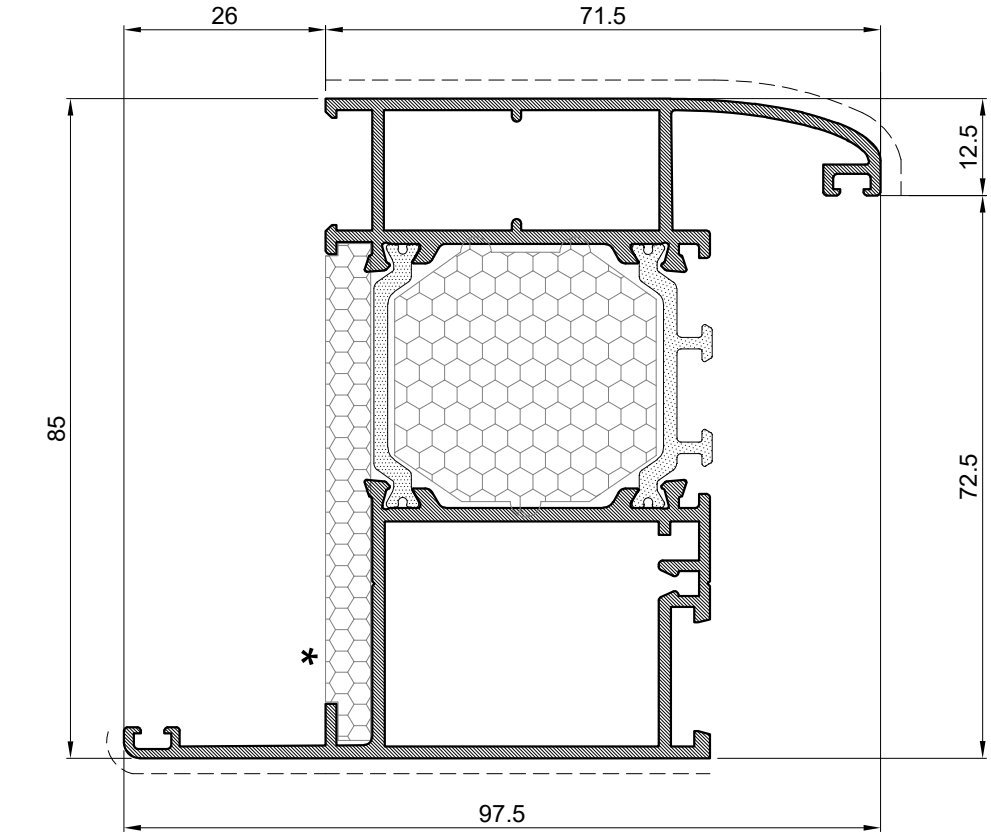


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2234HF**	
Težina Weight	kg/m	1.584
Opseg Perimeter	mm	483
Moment inercije Moment of inertia	Ix (cm4)	35.44
	Iy (cm4)	12.22
	Wx (cm3)	10.24
	Wy (cm3)	3.32
L	mm	6500

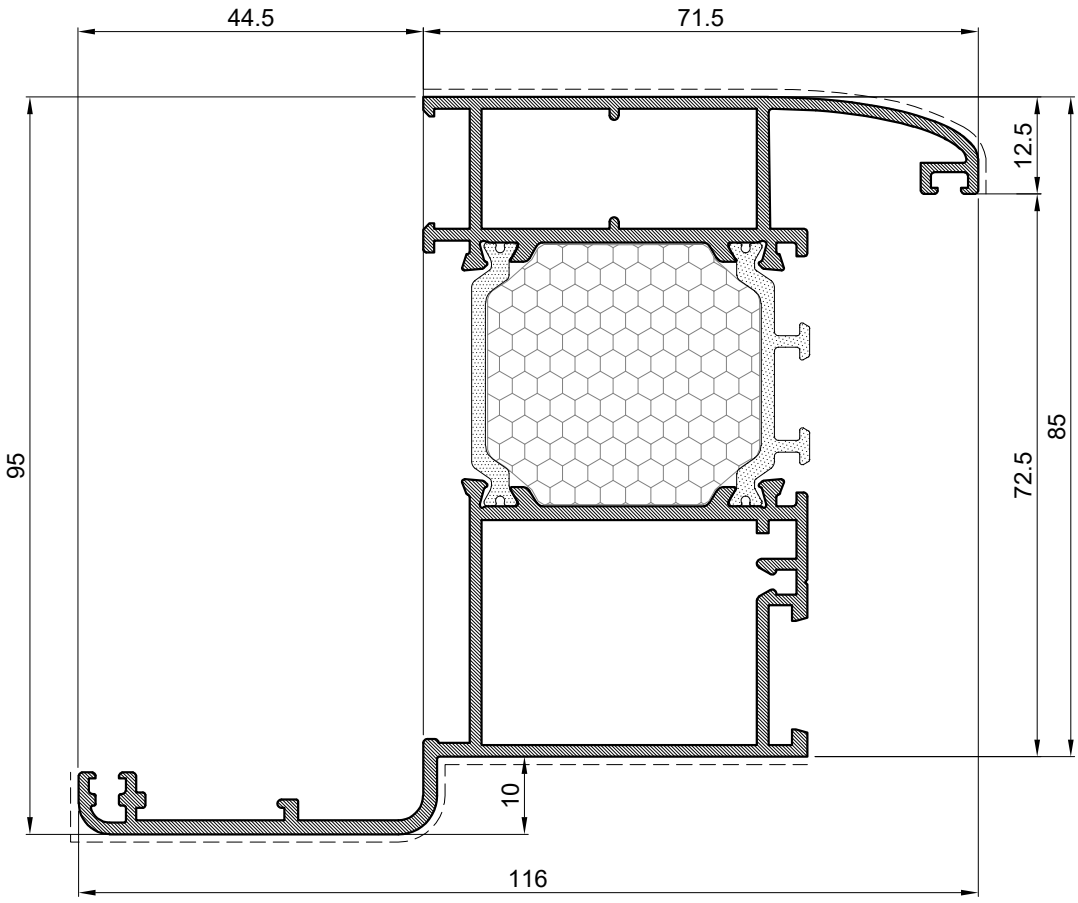


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2224HF**	
Težina Weight	kg/m	1.809
Opseg Perimeter	mm	505
Moment inercije Moment of inertia	Ix (cm4)	41.01
	Iy (cm4)	21.25
	Wx (cm3)	11.99
	Wy (cm3)	5.08
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

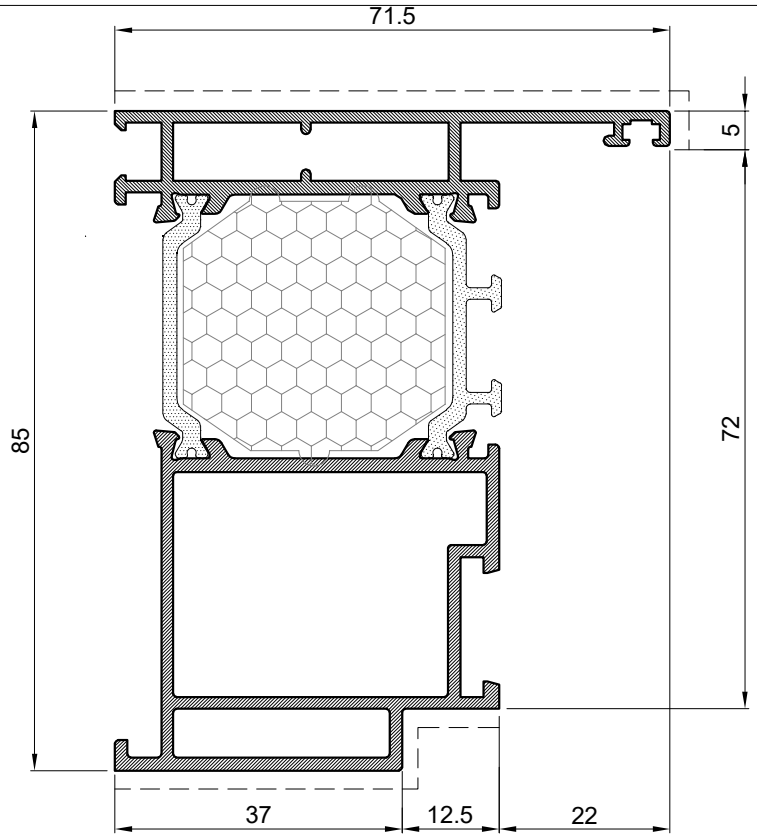


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2229HF**	
Težina Weight	kg/m	1.947
Opseg Perimeter	mm	567
Moment inercije Moment of inertia	Ix (cm4)	47.85
	Iy (cm4)	29.72
	Wx (cm3)	15.14
	Wy (cm3)	5.66
L	mm	6500

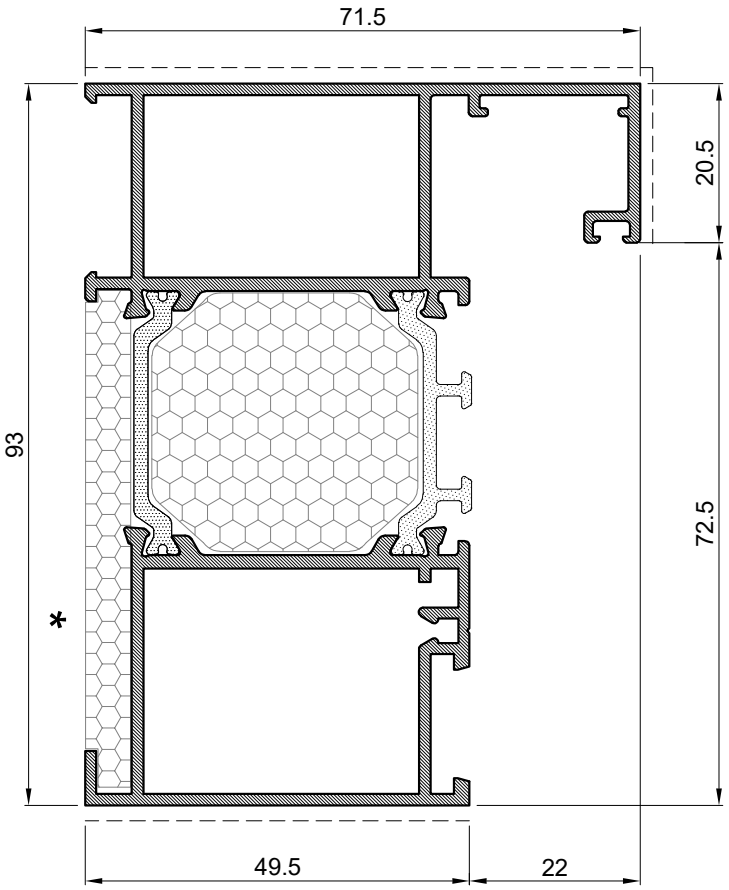


Profil rama Profile frame		
Br.Br.	**FT-2249HF**	
Težina Težina	kg/m	2.117
Opseg Perimeter	mm	621
Moment inercije Moment inercije	Ix (cm4)	62.67
	Iy (cm4)	50.35
	Wx (cm3)	17.71
	Wy (cm3)	7.68
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2274HF**	
Težina Weight	kg/m	1.878
Opseg Perimeter	mm	461
Moment inercije Moment of inertia	Ix (cm4)	45.96
	Iy (cm4)	19.52
	Wx (cm3)	13.64
	Wy (cm3)	4.5
L	mm	6500



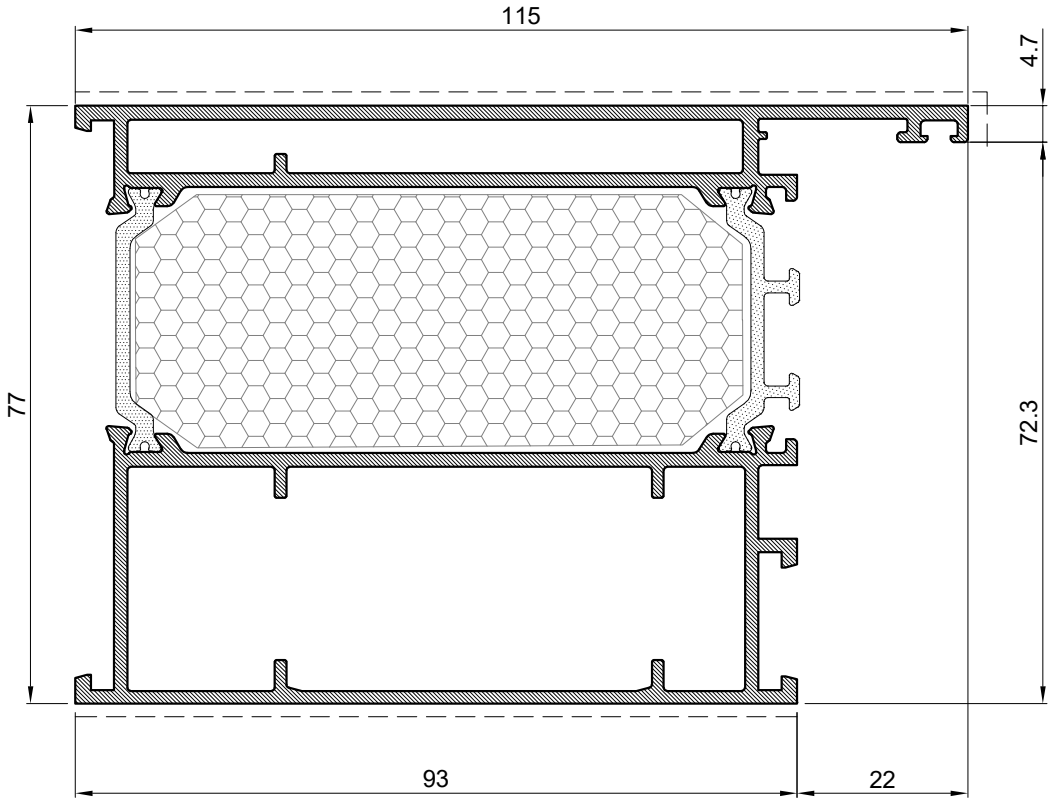
Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2268HF**	
Težina Weight	kg/m	1.926
Opseg Perimeter	mm	532
Moment inercije Moment of inertia	Ix (cm4)	51.72
	Iy (cm4)	25.65
	Wx (cm3)	13.78
	Wy (cm3)	6.32
L	mm	6500

*XPS-DODATNA TOPLINSKA IZOLACIJA, Uf VRIJEDNOST SMANJUJE ZA 15% - (samo na zahtjev kupca)

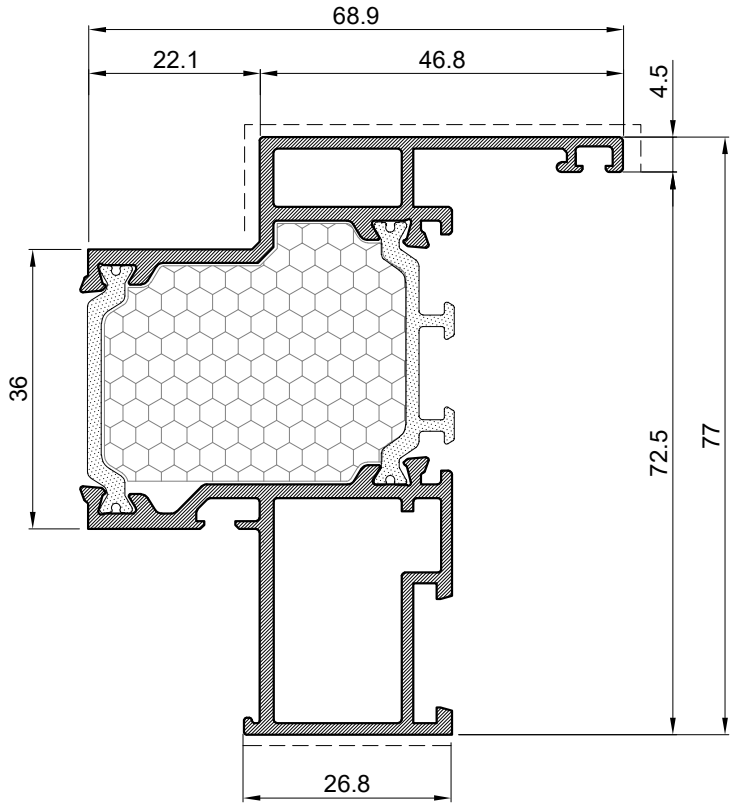
XPS-ADDITIONAL THERMAL INSULATION, Uf VALUE DECREASES BY 15% - (delivered at customer`s request)

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"

PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

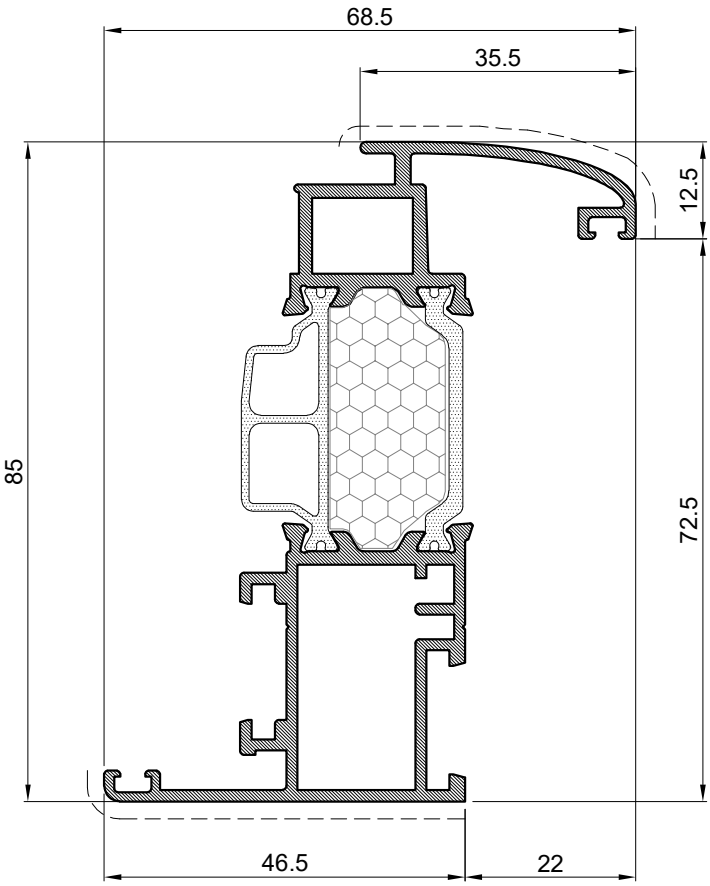


Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-2297HF**	
Težina Weight	kg/m	2.653
Opseg Perimeter	mm	527
Moment inercije Moment of inertia	Ix (cm4)	57.57
	Iy (cm4)	94.25
	Wx (cm3)	18.02
	Wy (cm3)	14.82
L	mm	6500

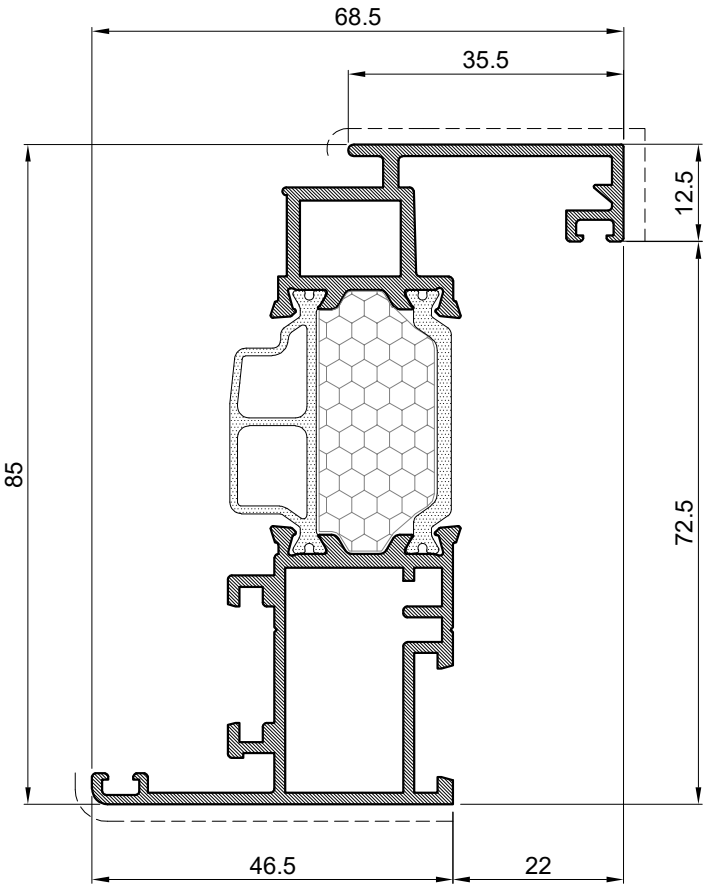


Profil rama u fasadi Profile frame in facade		
Art.Br. Art.Nr.	**FT-2261HF**	
Težina Weight	kg/m	1.549
Opseg Perimeter	mm	427
Moment inercije Moment of inertia	Ix (cm4)	25.3
	Iy (cm4)	12.41
	Wx (cm3)	8.10
	Wy (cm3)	3.22
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

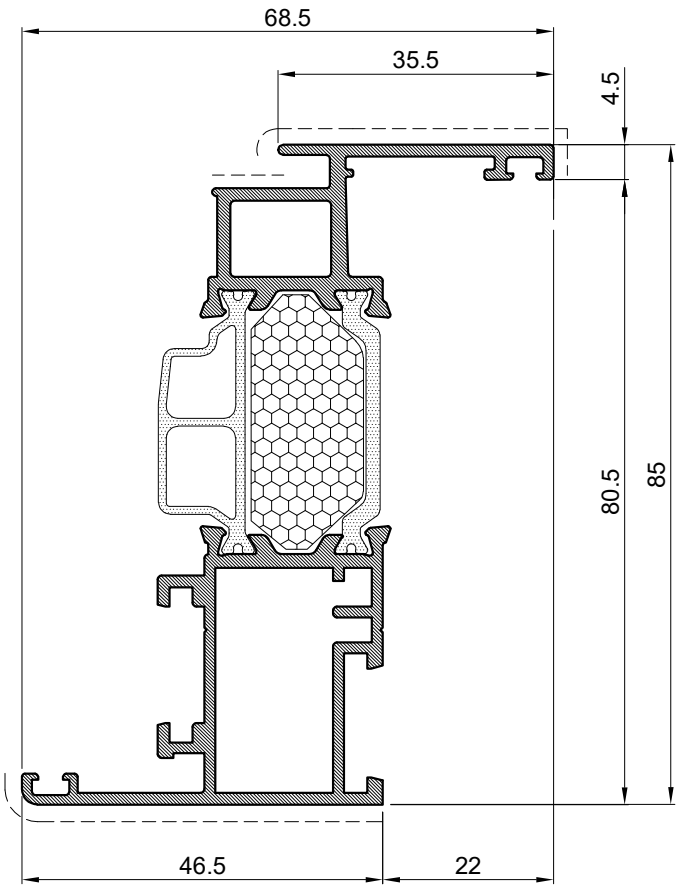


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0203HF**	
Težina Weight	kg/m	1.556
Opseg Perimeter	mm	452
Moment inercije Moment of inertia	Ix (cm4)	34.09
	Iy (cm4)	9.02
	Wx (cm3)	10.62
	Wy (cm3)	2.58
L	mm	6500

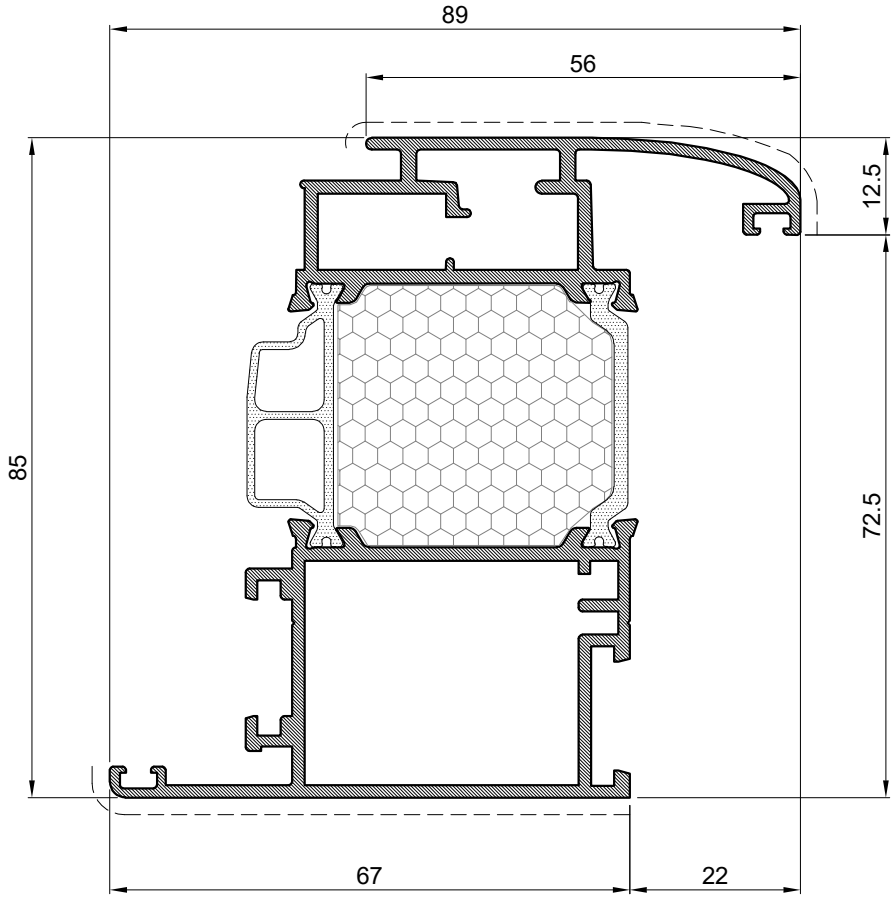


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0221HF**	
Težina Weight	kg/m	1.575
Opseg Perimeter	mm	452
Moment inercije Moment of inertia	Ix (cm4)	35.58
	Iy (cm4)	10.17
	Wx (cm3)	11.34
	Wy (cm3)	2.85
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

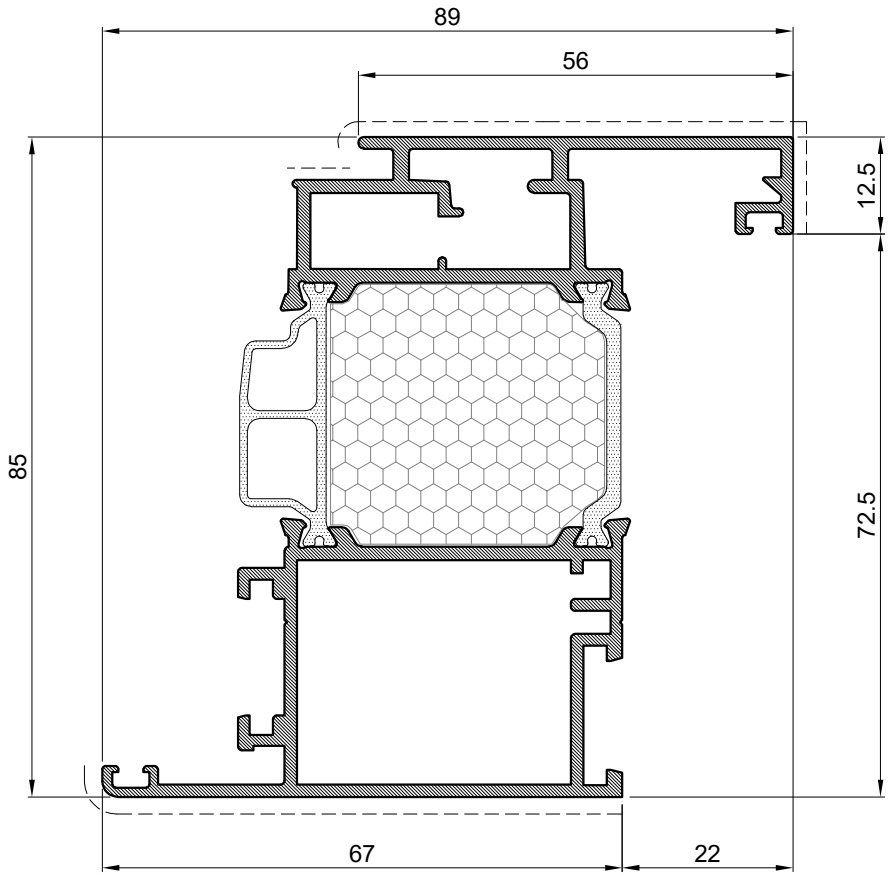


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0295HF**	
Težina Weight	kg/m	1.527
Opseg Perimeter	mm	436
Moment inercije Moment of inertia	Ix (cm4)	34.23
	Iy (cm4)	8.23
	Wx (cm3)	10.59
	Wy (cm3)	2.38
L	mm	6500

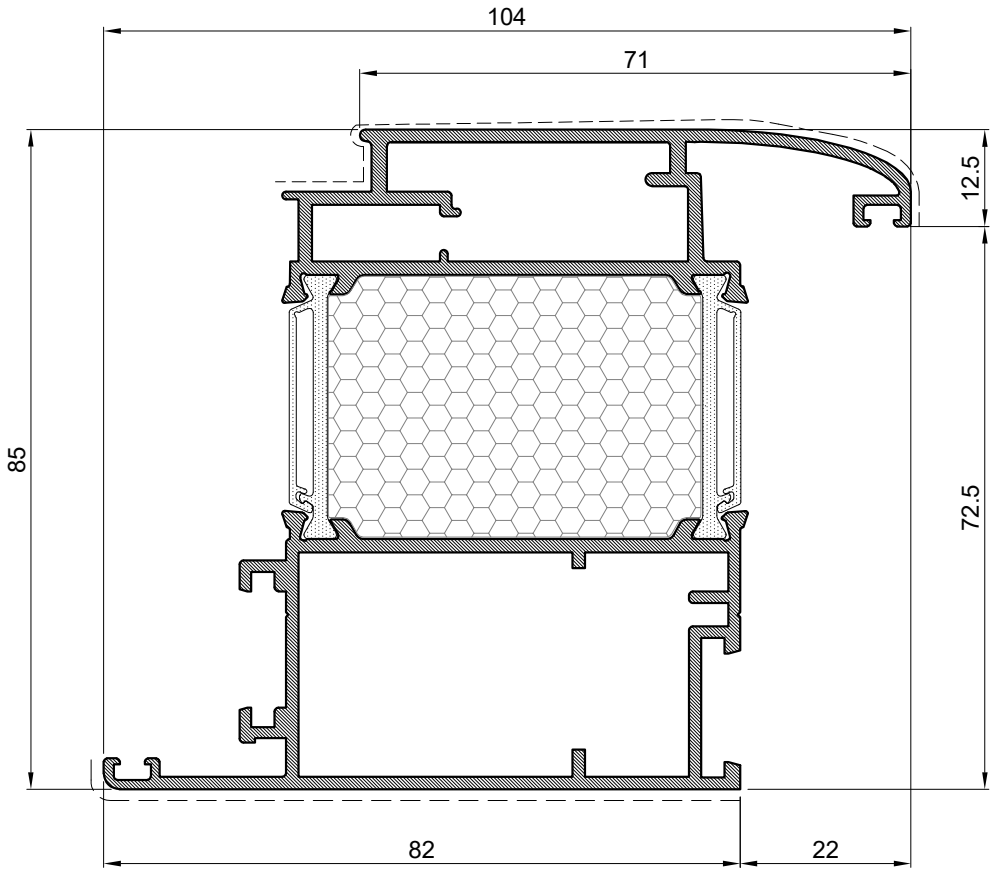


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0204HF**	
Težina Weight	kg/m	2050
Opseg Perimeter	mm	481
Moment inercije Moment of inertia	Ix (cm4)	47.73
	Iy (cm4)	26.08
	Wx (cm3)	14.82
	Wy (cm3)	5.75
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

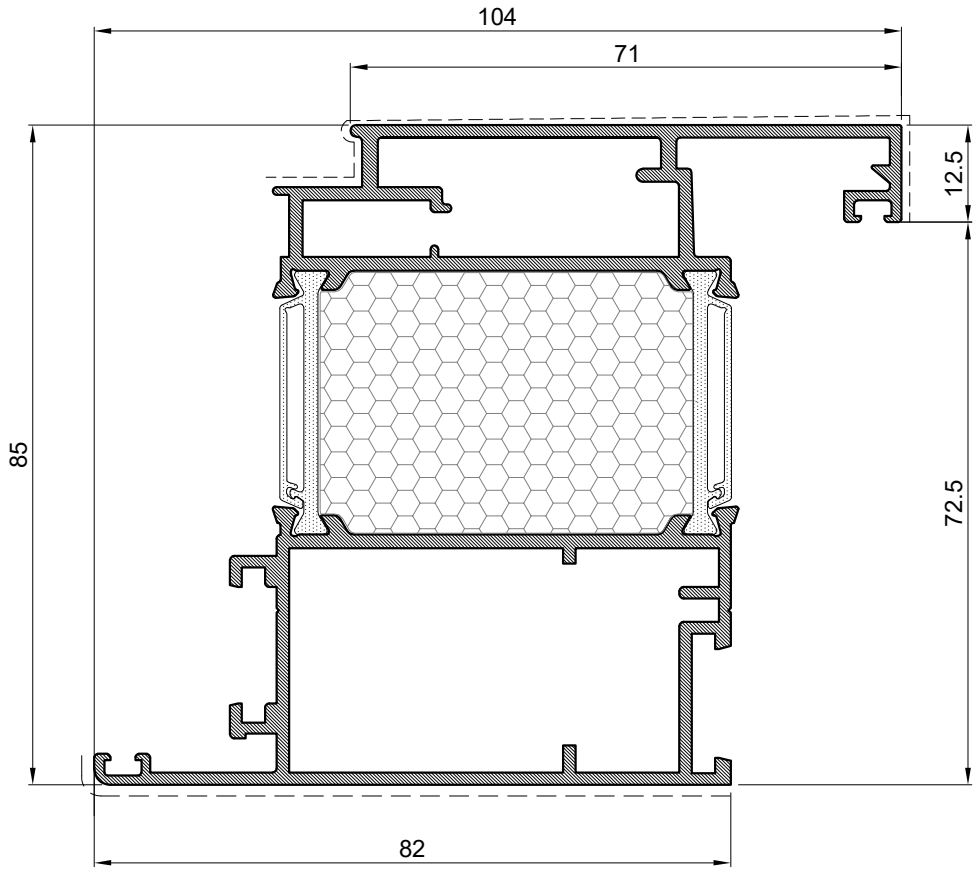


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0230HF**	
Težina Weight	kg/m	2.079
Opseg Perimeter	mm	496
Moment inercije Moment of inertia	Ix (cm4)	49.76
	Iy (cm4)	28.24
	Wx (cm3)	15.35
	Wy (cm3)	6.14
L	mm	6500

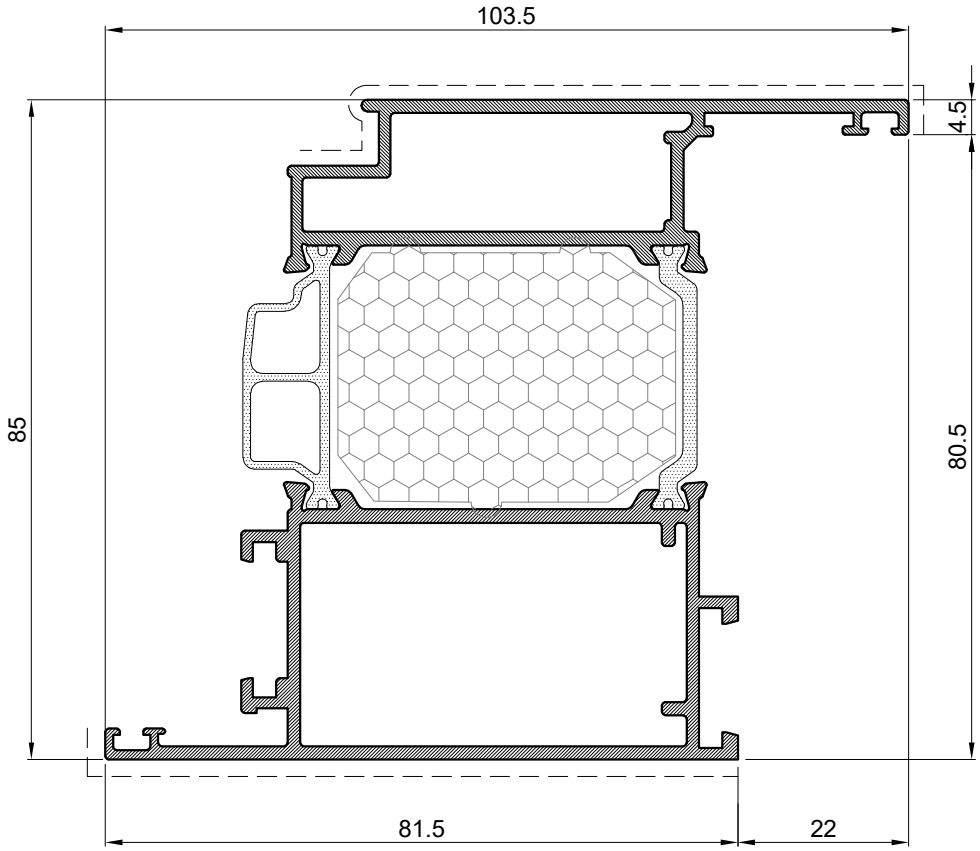


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0218HF**	
Težina Weight	519	2.372
Opseg Perimeter	mm	518
Moment inercije Moment of inertia	Ix (cm4)	57.25
	Iy (cm4)	47.81
	Wx (cm3)	17.94
	Wy (cm3)	9.04
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

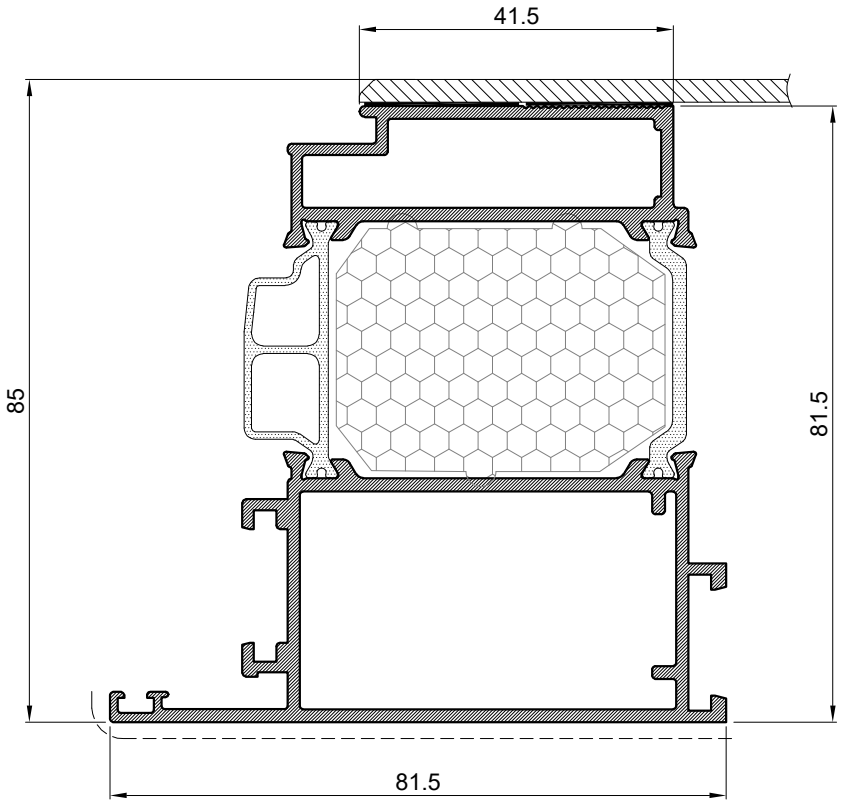


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0247HF**	
Težina Weight	kg/m	2.401
Opseg Perimeter	mm	495
Moment inercije Moment of inertia	Ix (cm4)	58.71
	Iy (cm4)	50.54
	Wx (cm3)	18.14
	Wy (cm3)	9.44
L	mm	6500

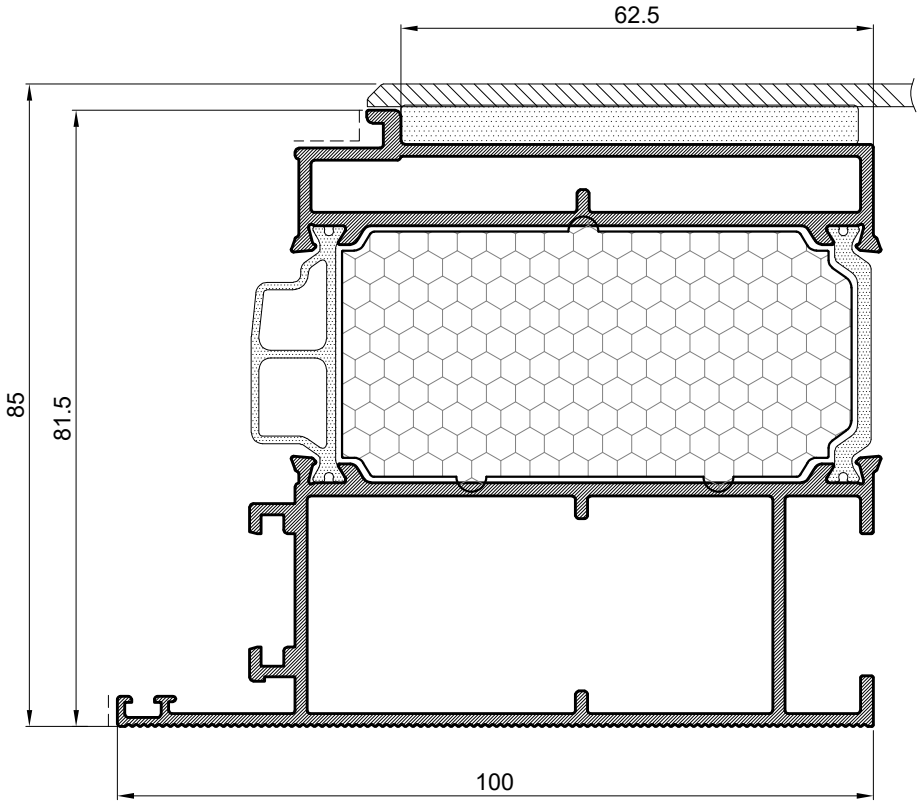


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0275HF**	
Težina Weight	kg/m	2.202
Opseg Perimeter	mm	499
Moment inercije Moment of inertia	Ix (cm4)	54.81
	Iy (cm4)	42.12
	Wx (cm3)	17.19
	Wy (cm3)	8.05
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

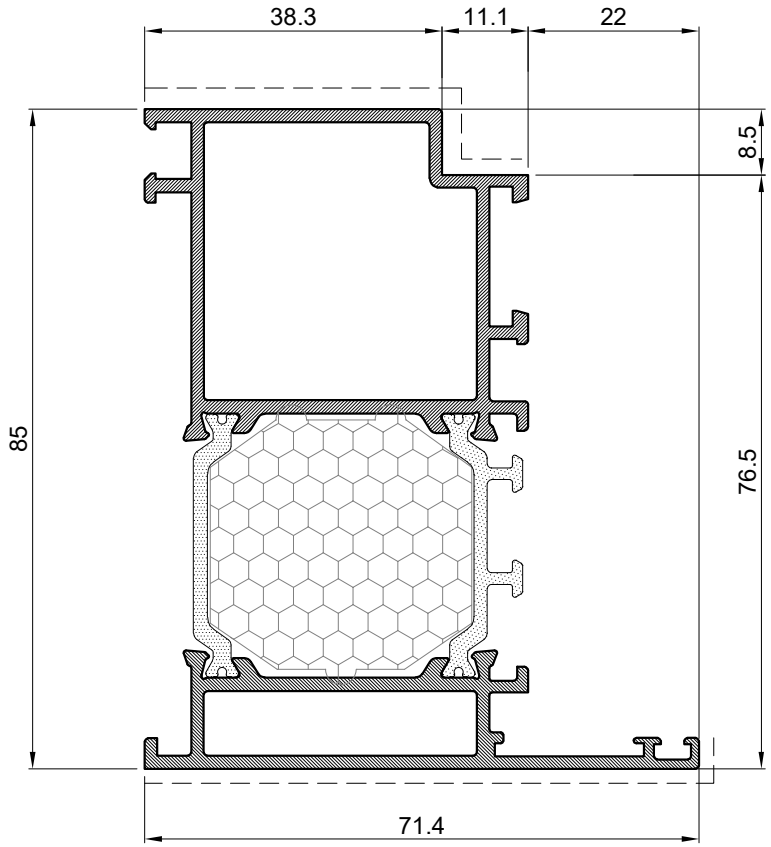


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-0291HF**	
Težina Weight	kg/m	1.995
Opseg Perimeter	mm	371
Moment inercije Moment of inertia	Ix (cm4)	57.31
	Iy (cm4)	30.87
	Wx (cm3)	12.75
	Wy (cm3)	6.52
L	mm	6500

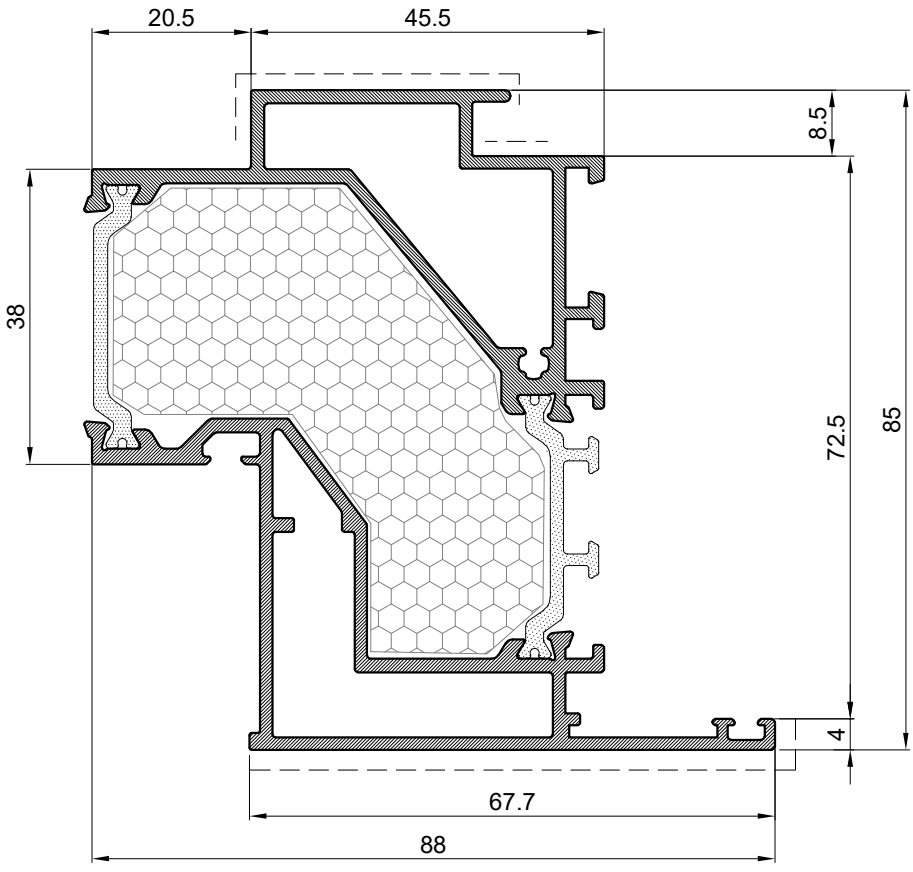


Profil krila Profile sash		
Art.Br. Art.Nr.	**FT-1626HF**	
Težina Weight	kg/m	2.329
Opseg Perimeter	mm	495
Moment inercije Moment of inertia	Ix (cm4)	50.15
	Iy (cm4)	61.91
	Wx (cm3)	15.8
	Wy (cm3)	10.82
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

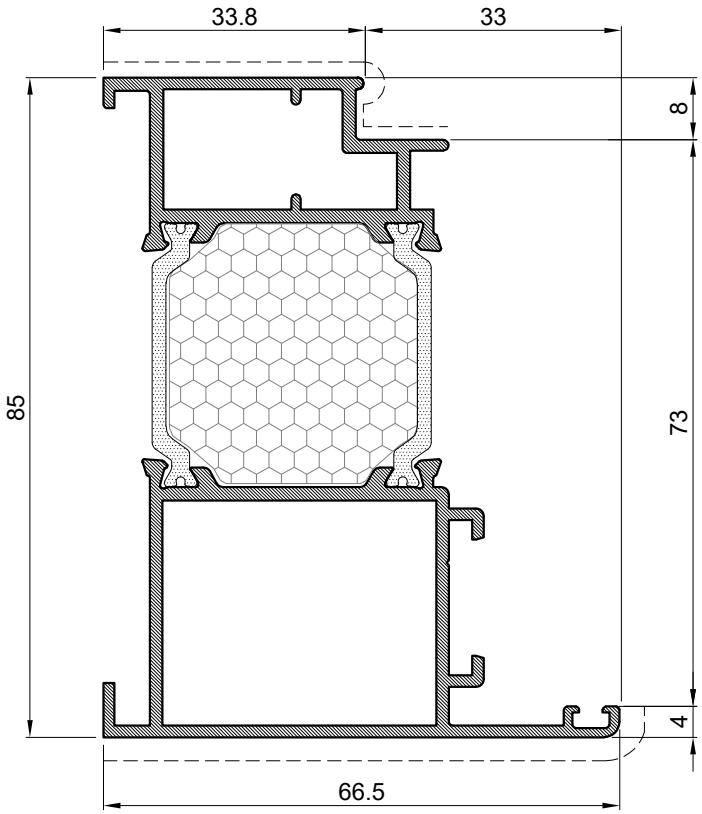


Profil rama, otvaranje vani Profile frame, outside openinig		
Art.Br. Art.Nr.	**FT-2278HF**	
Težina Weight	kg/m	1.801
Opseg Perimeter	mm	469
Moment inercije Moment of inertia	Ix (cm4)	42.92
	Iy (cm4)	18.79
	Wx (cm3)	12.28
	Wy (cm3)	4.35
L	mm	6500



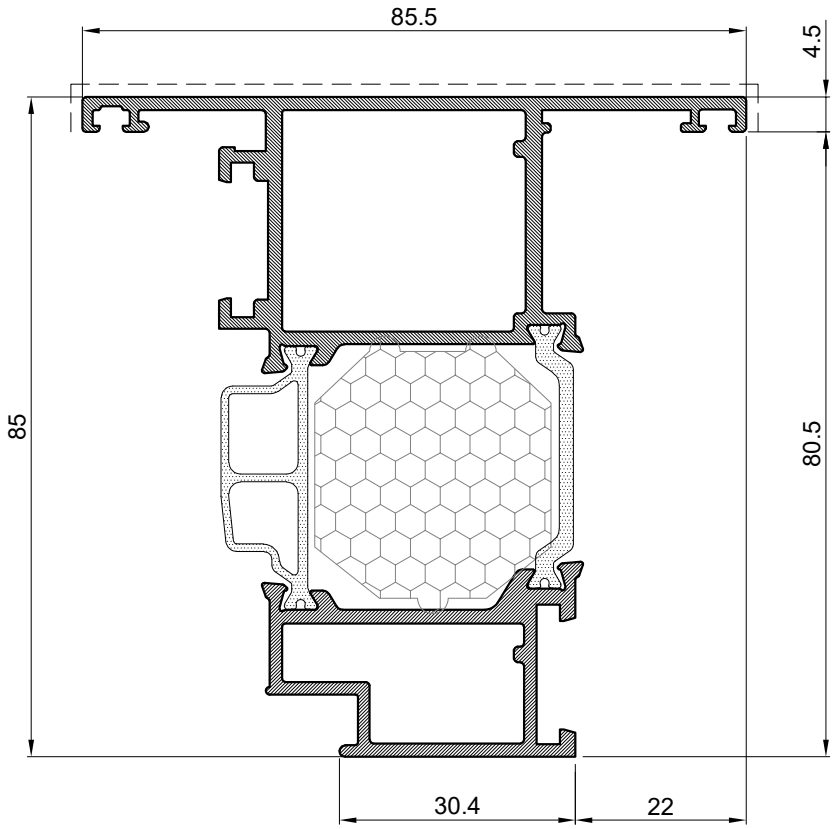
Profil rama u fasadi -otv.vani Profile frame in facade-outside opening		
Art.Br. Art.Nr.	**FT-2290HF**	
Težina Weight	kg/m	2.21
Opseg Perimeter	mm	514
Moment inercije Moment of inertia	Ix (cm4)	48.33
	Iy (cm4)	31.3
	Wx (cm3)	14.18
	Wy (cm3)	6.52
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

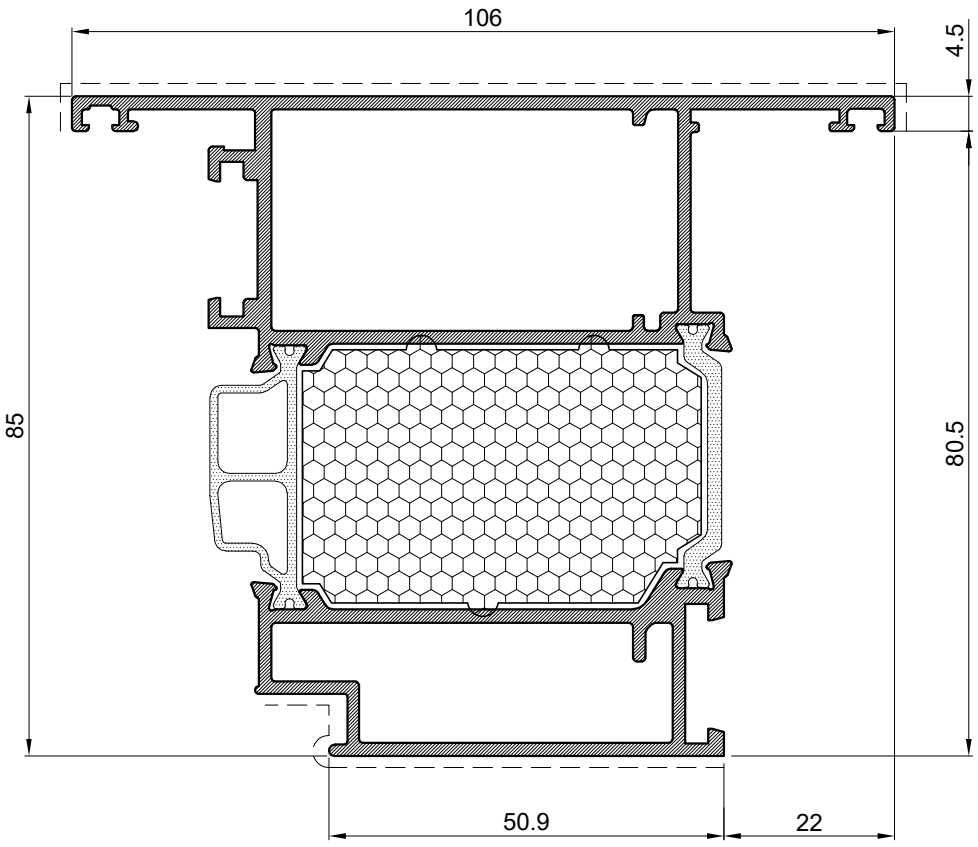


Profil rama-otvaranje vani Profile frame-outside opening		
Art.Br. Art.Nr.	**FT-0220HF**	
Težina Weight	kg/m	1.661
Opseg Perimeter	mm	372
Moment inercije Moment of inertia	Ix (cm4)	38.21
	Iy (cm4)	14.92
	Wx (cm3)	11.32
	Wy (cm3)	3.72
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

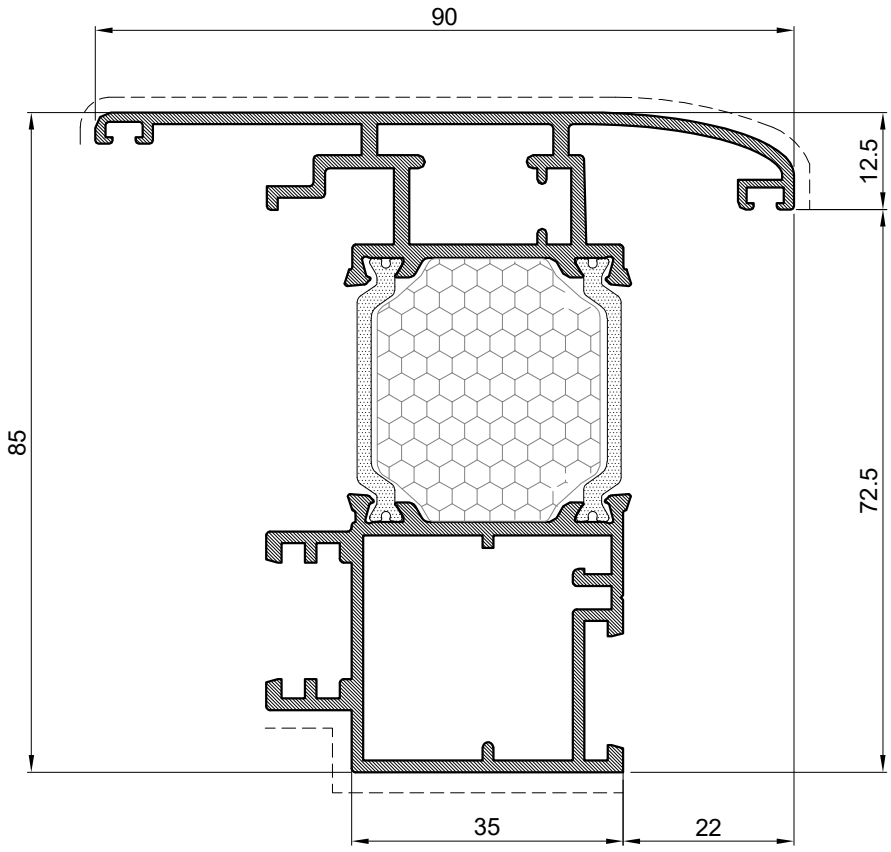


Profil krila, otvaranje vani Profile sash, outside openinig		
Art.Br. Art.Nr.	**FT-0283HF**	
Težina Weight	kg/m	1.949
Opseg Perimeter	mm	446
Moment inercije Moment of inertia	Ix (cm4)	44.89
	Iy (cm4)	21.88
	Wx (cm3)	12.24
	Wy (cm3)	5.09
L	mm	6500

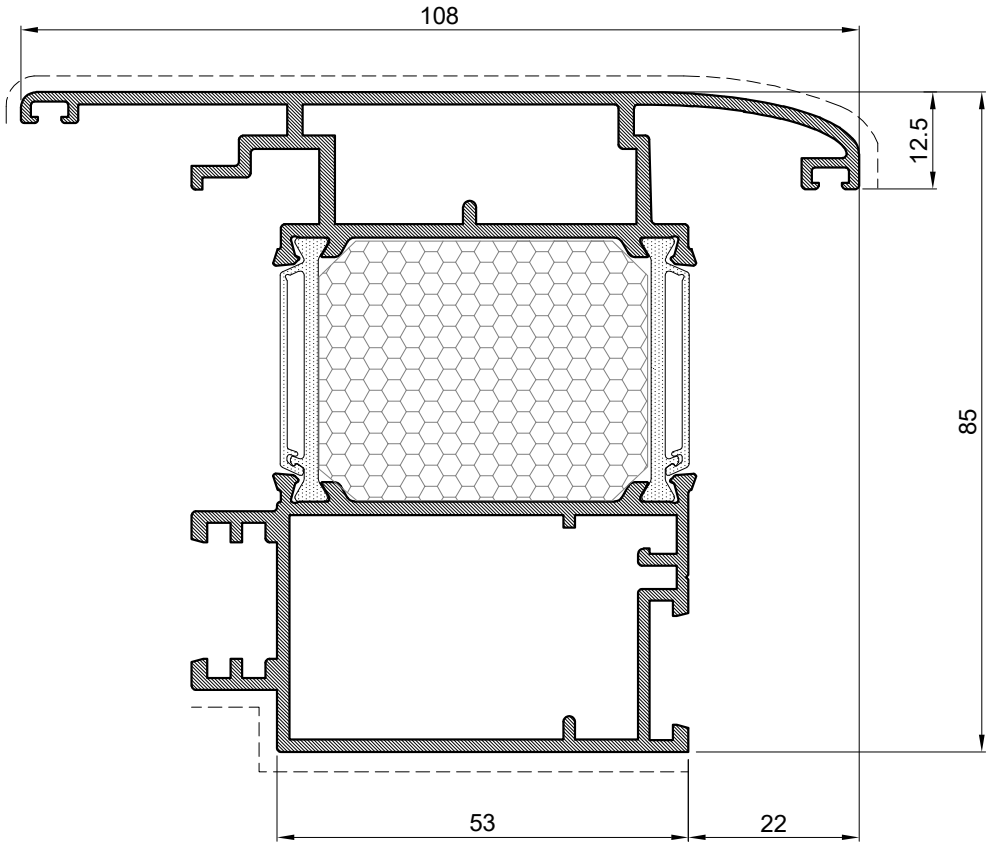


Profil krila, otvaranje vani Profile sash, outside openinig		
Art.Br. Art.Nr.	**FT-0279HF**	
Težina Weight	kg/m	2.324
Opseg Perimeter	mm	503
Moment inercije Moment of inertia	Ix (cm4)	56.61
	Iy (cm4)	49.66
	Wx (cm3)	16.22
	Wy (cm3)	9.3
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

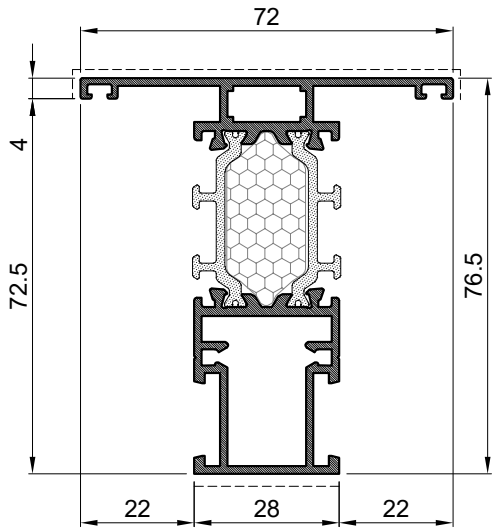


Profil krila-otvaranje vani Profile sash-outside opening		
Art.Br. Art.Nr.	**FT-0210HF**	
Težina Weight	kg/m	2.027
Opseg Perimeter	mm	532
Moment inercije Moment of inertia	Ix (cm4)	45.75
	Iy (cm4)	23.21
	Wx (cm3)	12.6
	Wy (cm3)	4.93
L	mm	6500

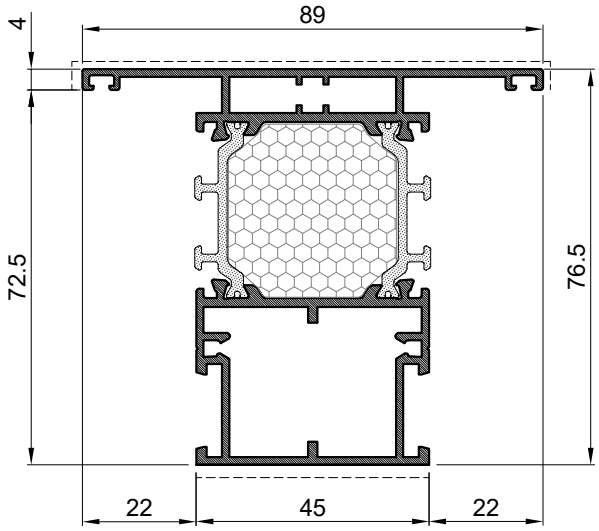


Profil krila-otvaranje vani Profile sash-outside opening		
Art.Br. Art.Nr.	**FT-0219HF**	
Težina Weight	kg/m	2.424
Opseg Perimeter	mm	570
Moment inercije Moment of inertia	Ix (cm4)	55.99
	Iy (cm4)	49.45
	Wx (cm3)	15.62
	Wy (cm3)	8.82
L	mm	6500

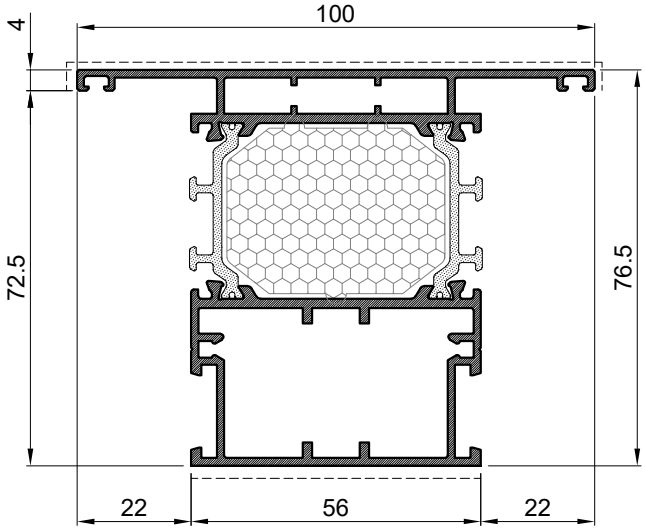
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2205HF**	
Težina Weight	kg/m	1.477
Opseg Perimeter	mm	507
Moment inercije Moment of inertia	Ix (cm4)	27
	Iy (cm4)	8.91
	Wx (cm3)	8.34
	Wy (cm3)	2.47
L	mm	6500

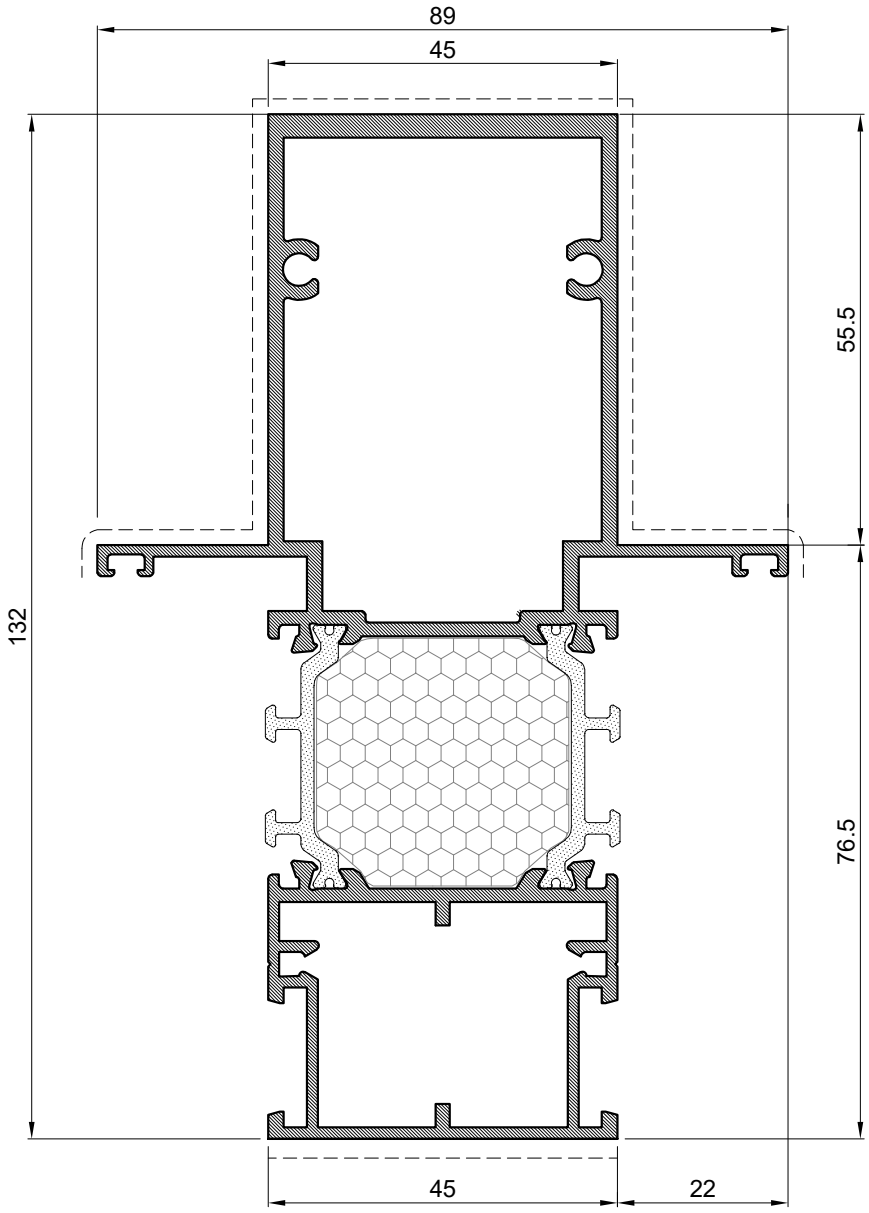


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2206HF**	
Težina Weight	kg/m	1.808
Opseg Perimeter	mm	435
Moment inercije Moment of inertia	Ix (cm4)	34.87
	Iy (cm4)	21.51
	Wx (cm3)	10.84
	Wy (cm3)	4.83
L	mm	6500

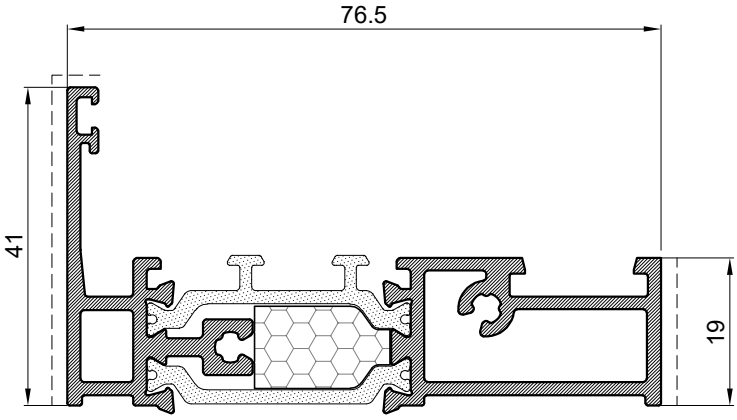


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2620HF**	
Težina Weight	kg/m	2.021
Opseg Perimeter	mm	578
Moment inercije Moment of inertia	Ix (cm4)	40.1
	Iy (cm4)	34.03
	Wx (cm3)	12.54
	Wy (cm3)	6.81
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

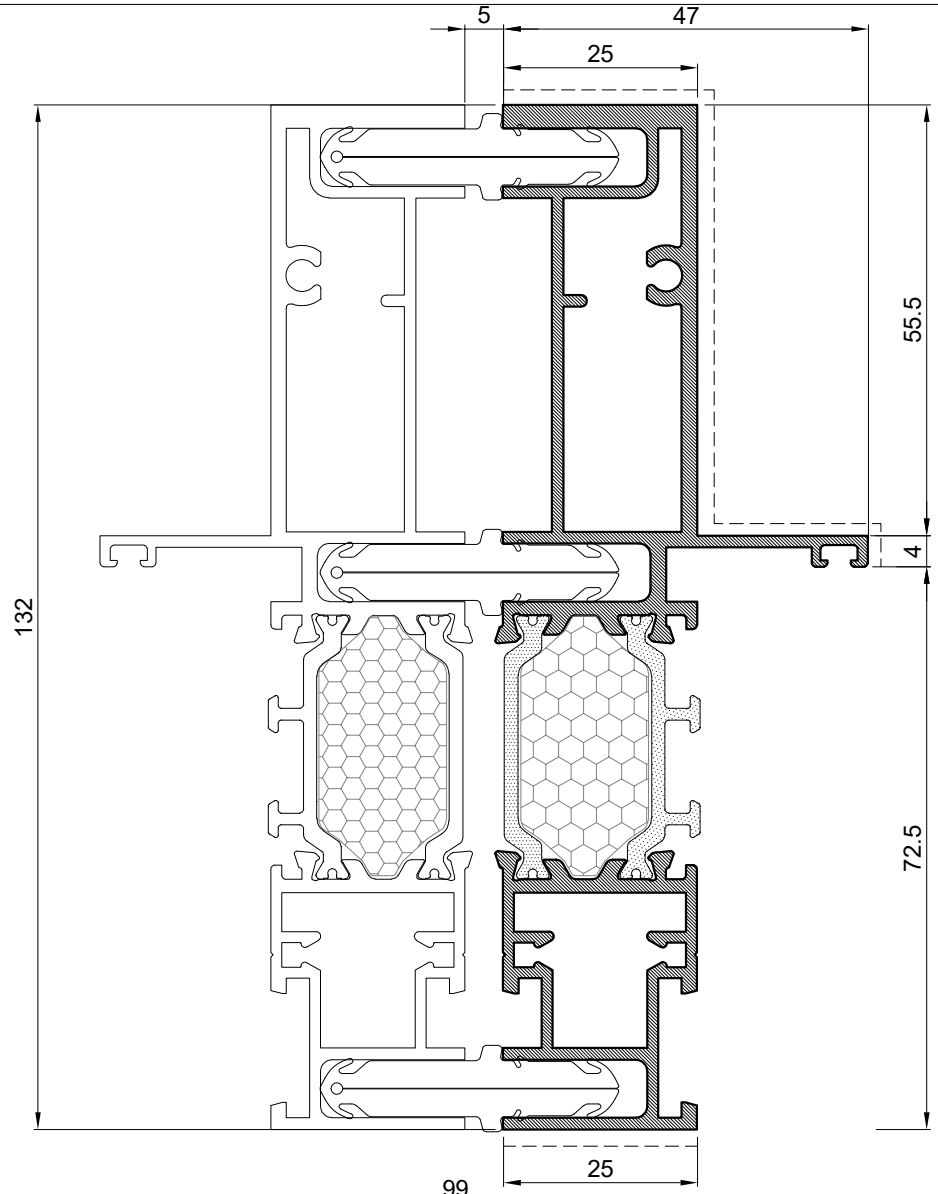


Profil ojačane prečke Reinforcement window mullion		
Art.Br. Art.Nr.	**FT-2209HF**	
Težina Weight	kg/m	2.730
Opseg Perimeter	mm	680
Moment inercije Moment of inertia	Ix (cm4)	133.33
	Iy (cm4)	34.73
	Wx (cm3)	24.3
	Wy (cm3)	7.8
L	mm	6500

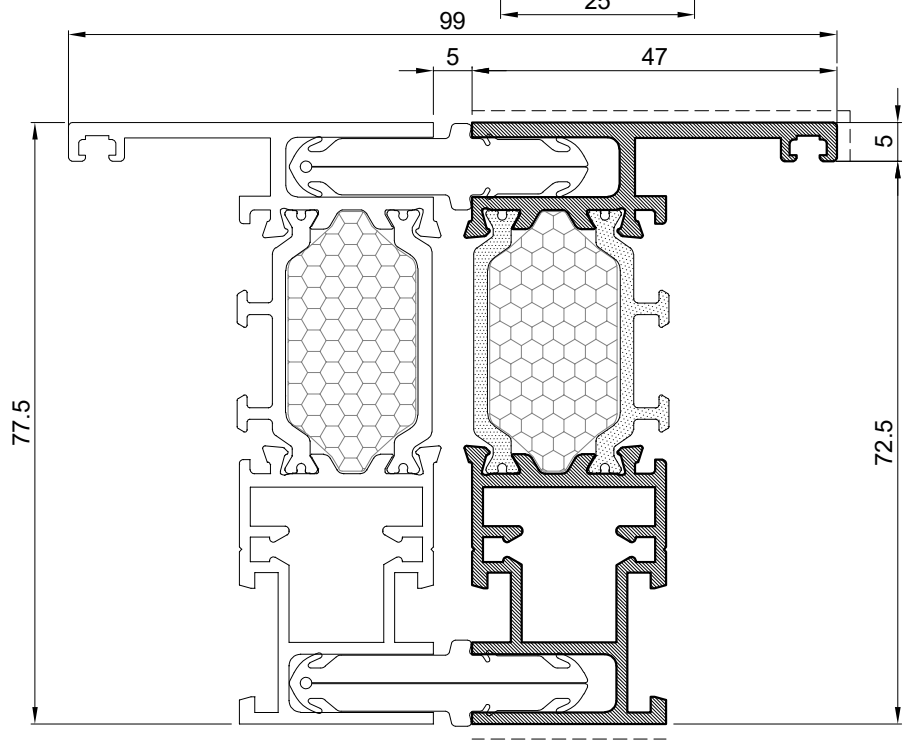


Profil praga Treshold profile		
Art.Br. Art.Nr.	**FT-2614HF**	
Težina Weight	kg/m	1.300
Opseg Perimeter	mm	338
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



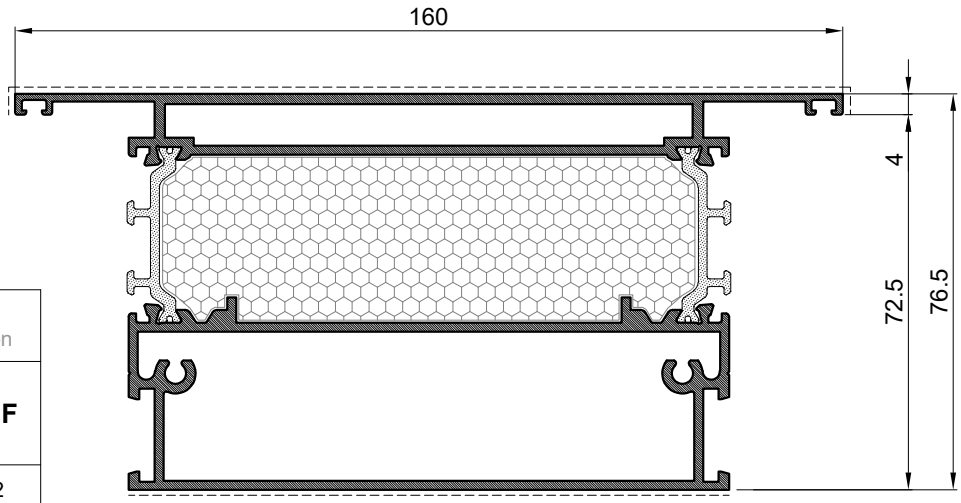
Vezni profil s ojačanjem Connection profile-reinforcement		
Art.Br. Art.Nr.	**FT-2226HF**	
Težina Weight	kg/m	2.148
Opseg Perimeter	mm	563
Moment inercije Moment of inertia	Ix (cm4)	100.31
	Iy (cm4)	6.66
	Wx (cm3)	18.54
	Wy (cm3)	2.1
L	mm	6500



Vezni profil Connection profile		
Art.Br. Art.Nr.	**FT-2227HF**	
Težina Weight	kg/m	1.380
Opseg Perimeter	mm	447
Moment inercije Moment of inertia	Ix (cm4)	24.96
	Iy (cm4)	5.42
	Wx (cm3)	8.15
	Wy (cm3)	1.73
L	mm	6500

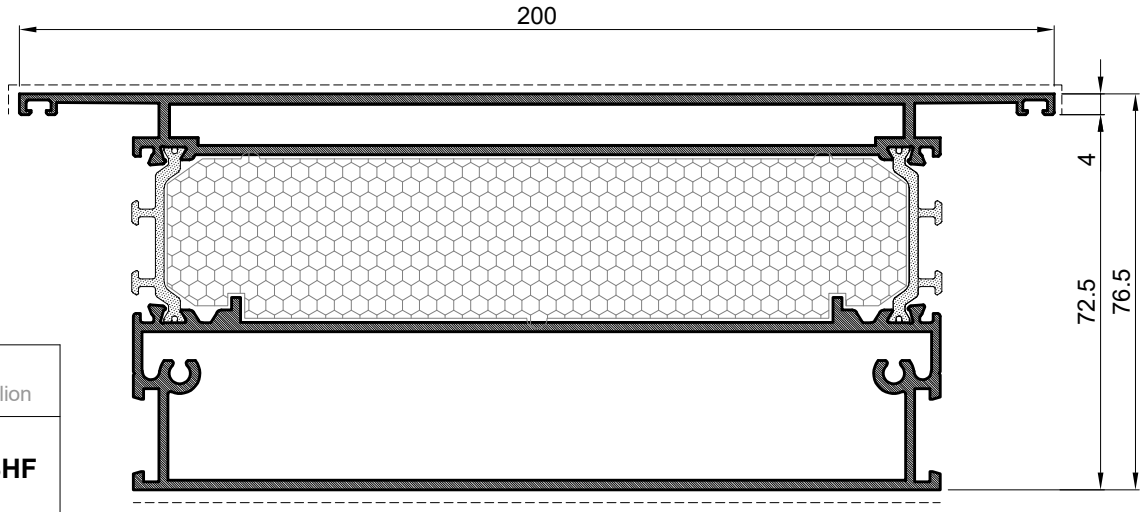
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

M 1:1.5



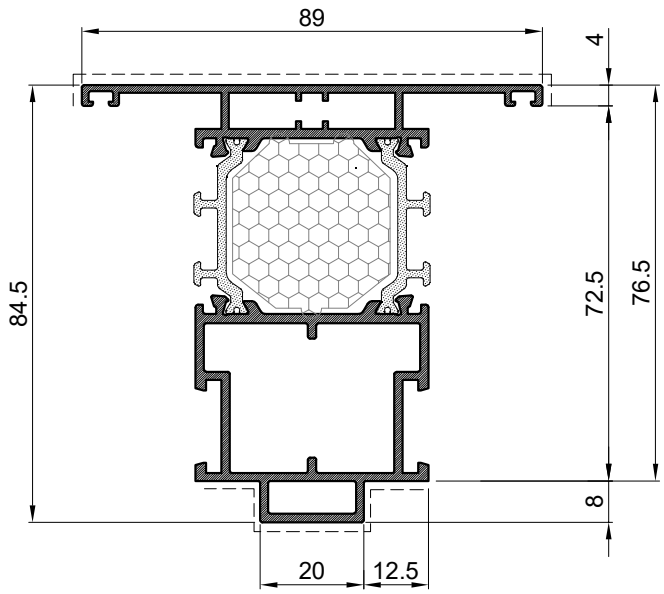
Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2207HF**	
Težina Weight	kg/m	3.502
Opseg Perimeter	mm	704
Moment inercije Moment of inertia	Ix (cm4)	71.91
	Iy (cm4)	209.94
	Wx (cm3)	22.46
	Wy (cm3)	26.24
L	mm	6500

M 1:1.5

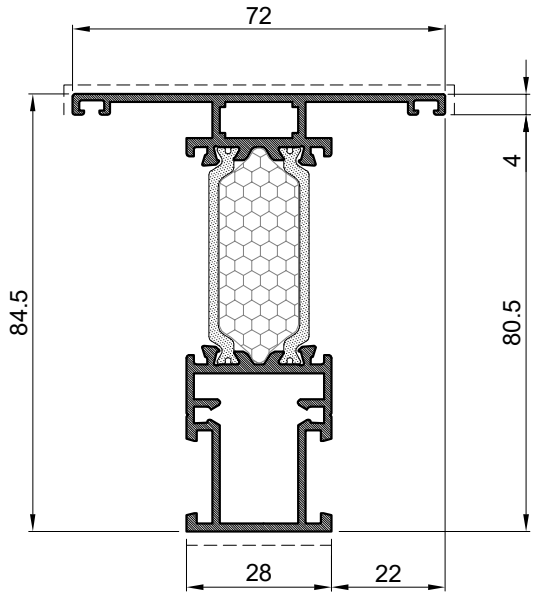


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2243HF**	
Težina Weight	kg/m	4.304
Opseg Perimeter	mm	793
Moment inercije Moment of inertia	Ix (cm4)	93.1
	Iy (cm4)	450.13
	Wx (cm3)	29.01
	Wy (cm3)	45.01
L	mm	6500

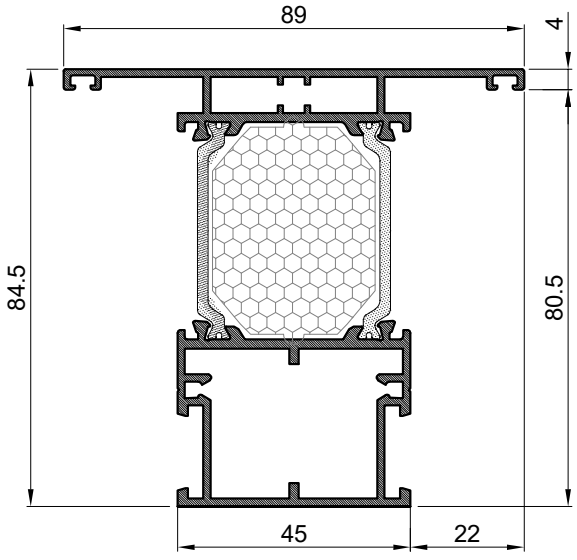
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2276HF**	
Težina Weight	kg/m	1.941
Opseg Perimeter	mm	594
Moment inercije Moment of inertia	Ix (cm4)	44.24
	Iy (cm4)	21.67
	Wx (cm3)	12.52
	Wy (cm3)	4.87
L	mm	6500

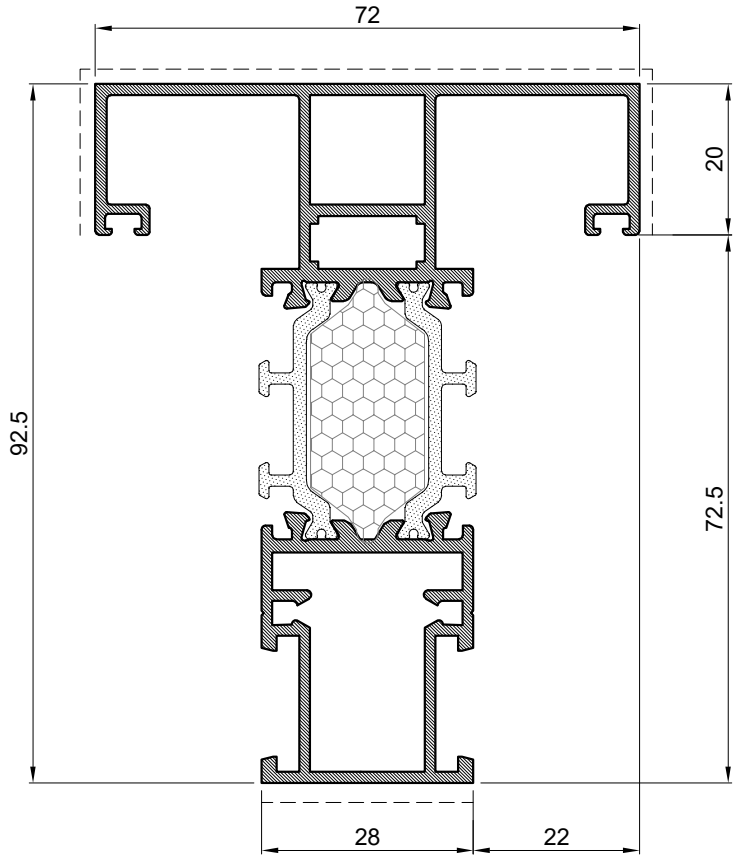


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-0284HF**	
Težina Weight	kg/m	1.515
Opseg Perimeter	mm	416
Moment inercije Moment of inertia	Ix (cm4)	34.47
	Iy (cm4)	8.91
	Wx (cm3)	9.91
	Wy (cm3)	2.47
L	mm	6500

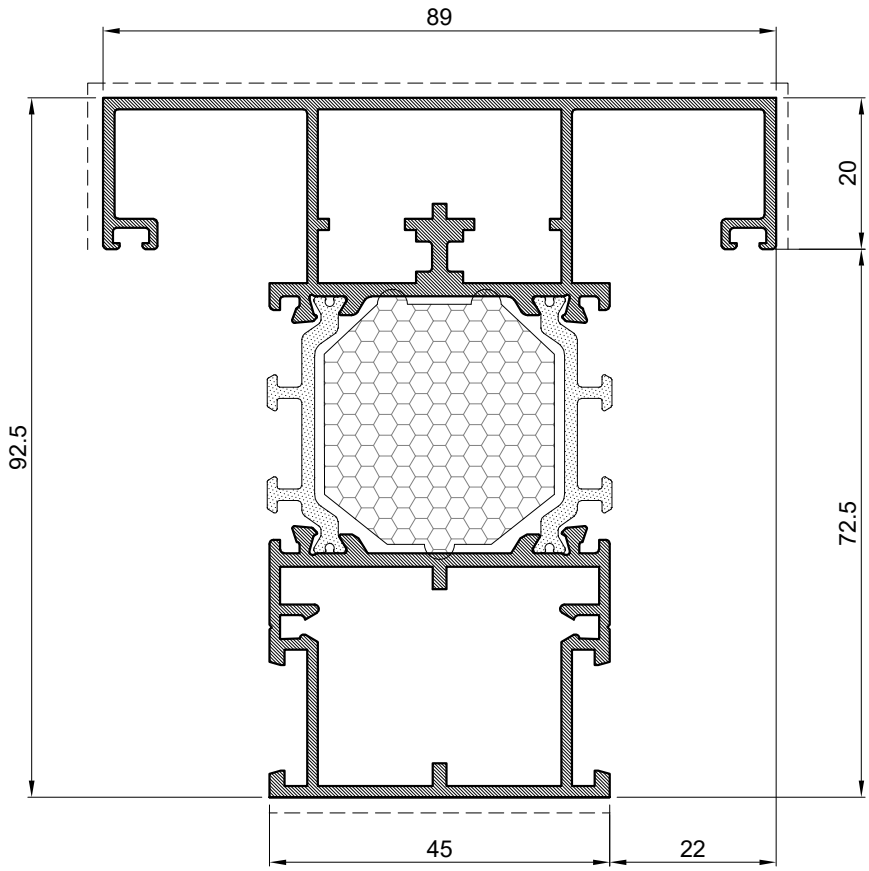


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-1621HF**	
Težina Weight	kg/m	1.853
Opseg Perimeter	mm	504
Moment inercije Moment of inertia	Ix (cm4)	44.33
	Iy (cm4)	21.51
	Wx (cm3)	12.82
	Wy (cm3)	4.83
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

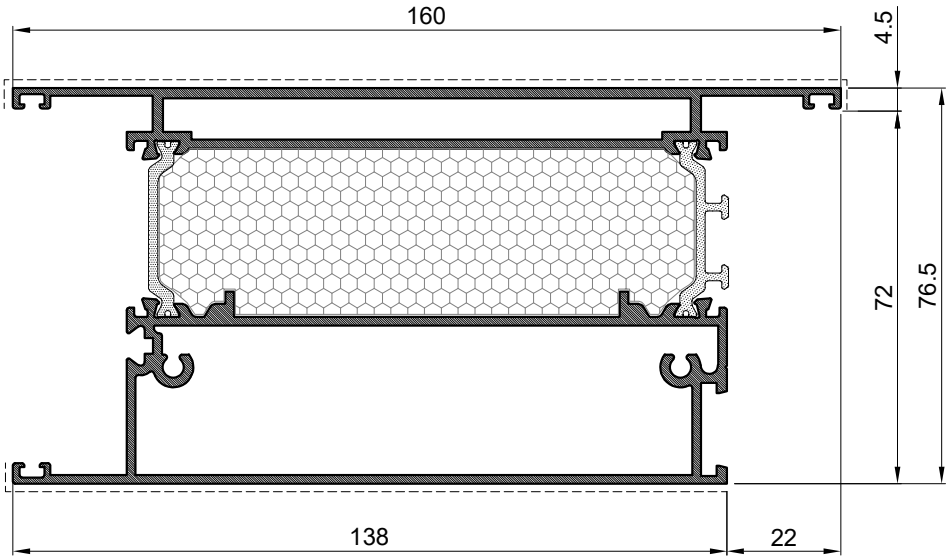


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2269HF**	
Težina Weight	kg/m	1.835
Opseg Perimeter	mm	639
Moment inercije Moment of inertia	Ix (cm4)	45.3
	Iy (cm4)	16.97
	Wx (cm3)	11.19
	Wy (cm3)	4.71
L	mm	6500

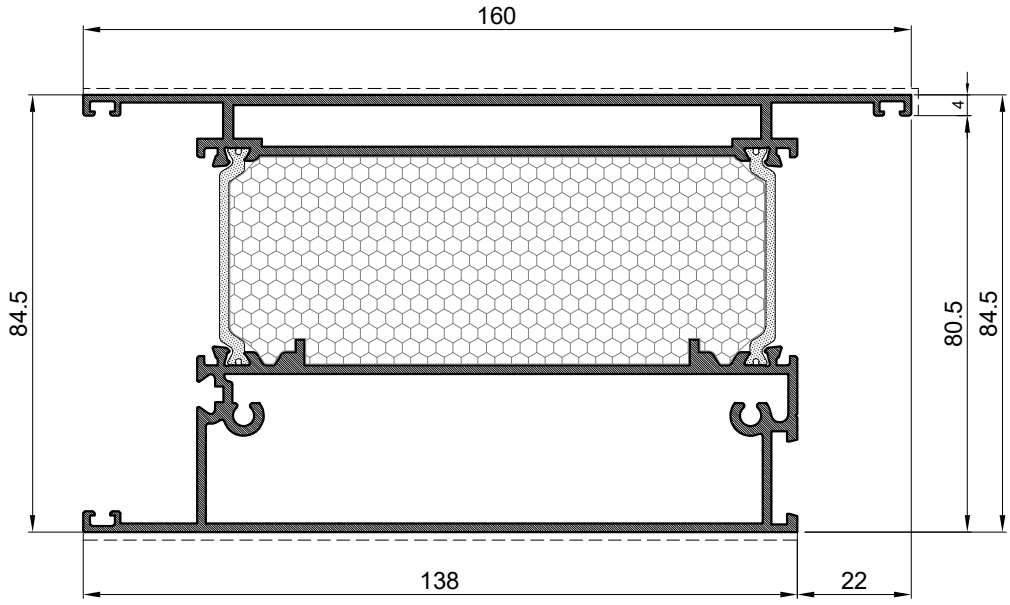


Profil prečke Profile window mullion		
Art.Br. Art.Nr.	**FT-2270HF**	
Težina Weight	kg/m	2.213
Opseg Perimeter	mm	667
Moment inercije Moment of inertia	Ix (cm4)	56.82
	Iy (cm4)	34.87
	Wx (cm3)	14.28
	Wy (cm3)	7.84
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

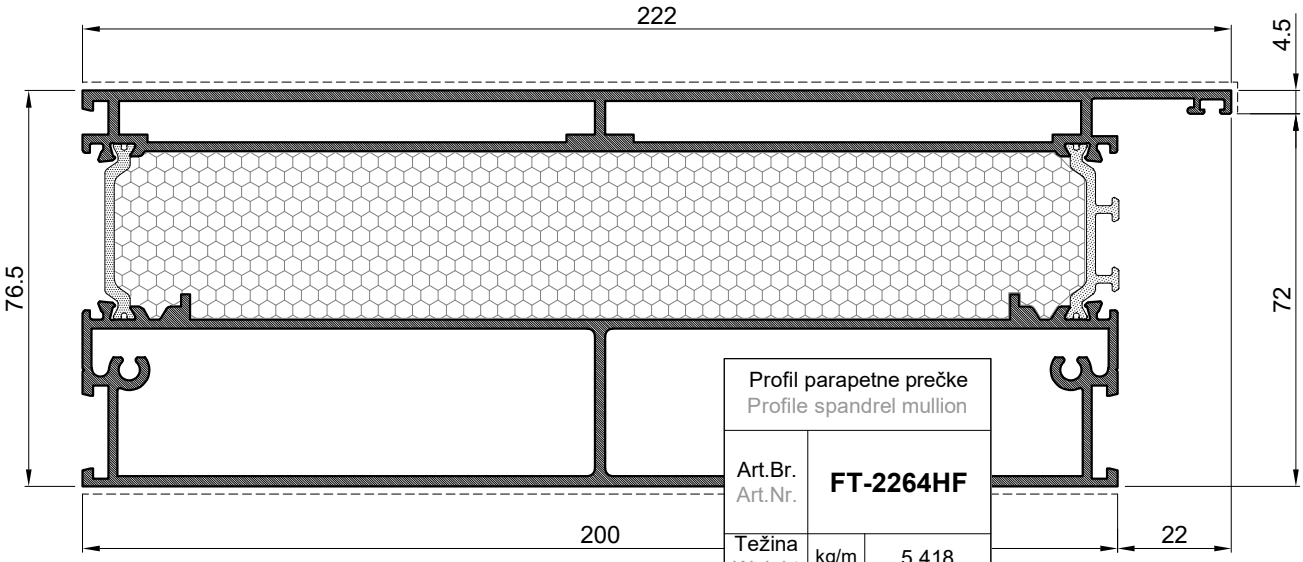


Profil parapetne prečke Profile spandrel mullion		
Art.Br. Art.Nr.	**FT-2208HF**	
Težina Weight	kg/m	3.559
Opseg Perimeter	mm	708
Moment inercije Moment of inertia	Ix (cm4)	76.82
	Iy (cm4)	229.98
	Wx (cm3)	24.7
	Wy (cm3)	27.94
L	mm	6500

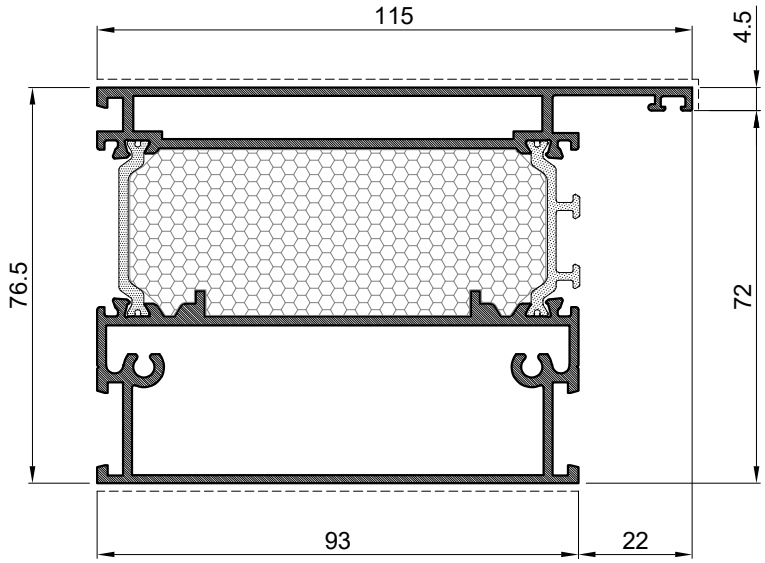


Profil parapetne prečke Profile spandrel mullion		
Art.Br. Art.Nr.	**FT-0282HF**	
Težina Weight	kg/m	3.598
Opseg Perimeter	mm	666
Moment inercije Moment of inertia	Ix (cm4)	96.79
	Iy (cm4)	230
	Wx (cm3)	28.99
	Wy (cm3)	27.94
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

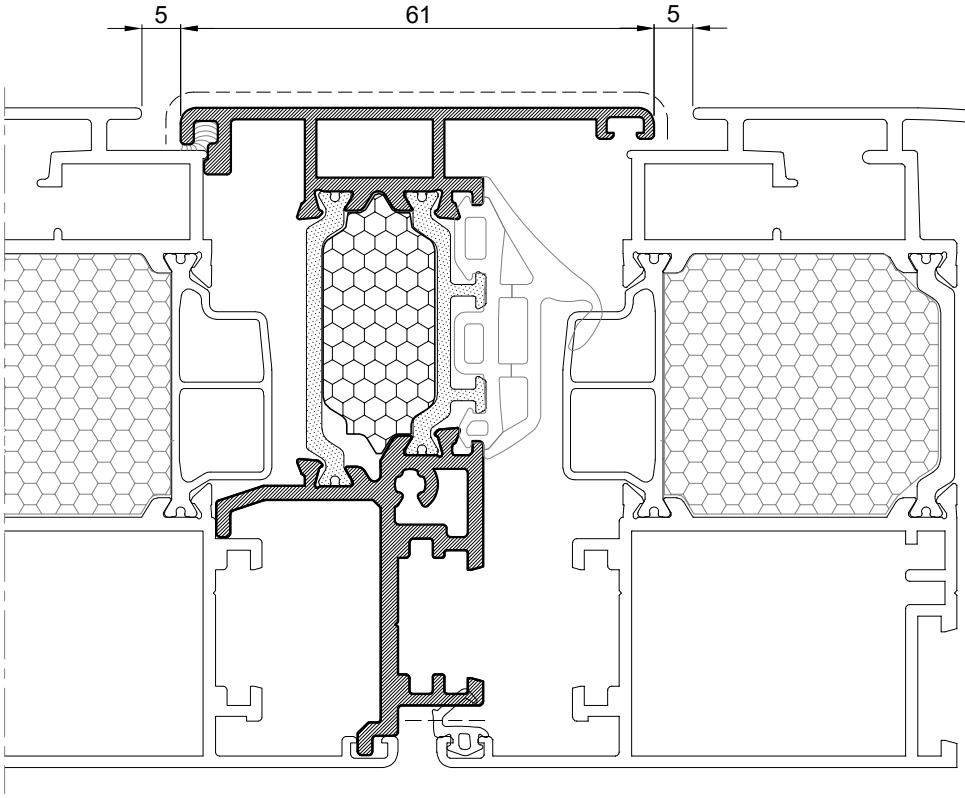


Profil parapetne prečke Profile spandrel mullion		
Art.Br. Art.Nr.	**FT-2264HF**	
Težina Weight	kg/m	5.418
Opseg Perimeter	mm	706
Moment inercije Moment of inertia	Ix (cm4)	120.62
	Iy (cm4)	816.23
	Wx (cm3)	39.11
	Wy (cm3)	67.88
L	mm	6500

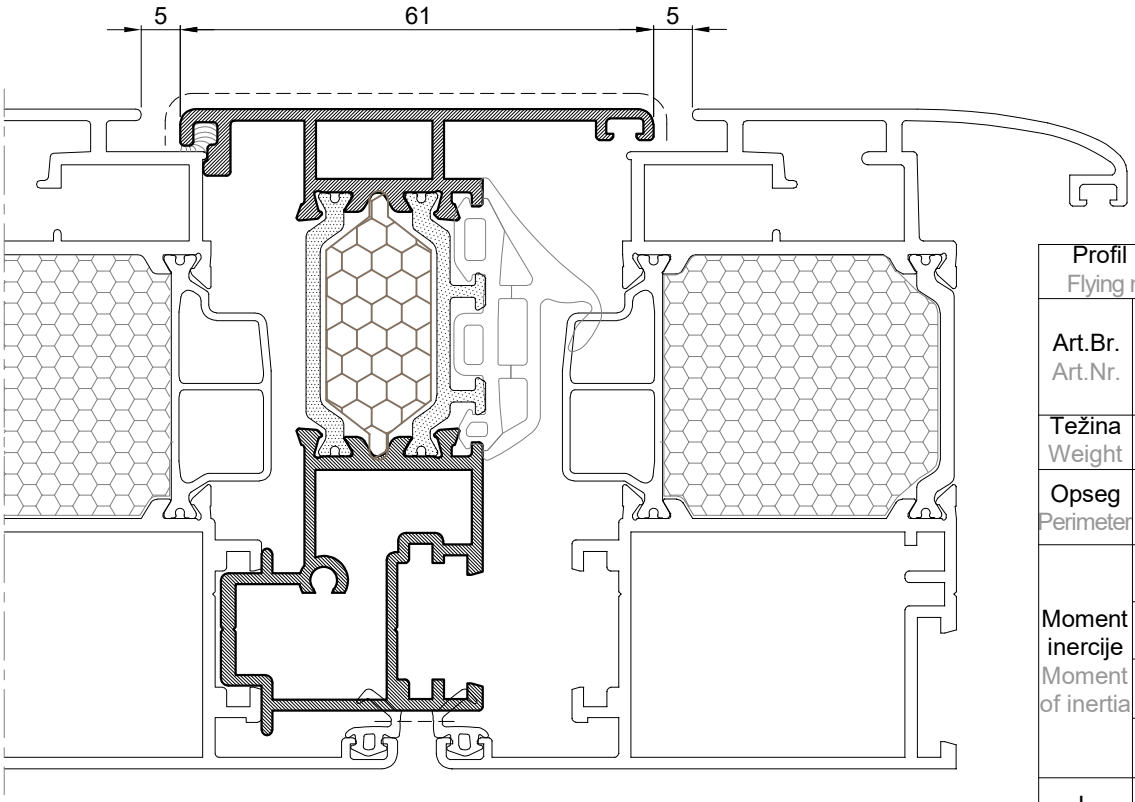


Profil parapetne prečke Profile spandrel mullion		
Art.Br. Art.Nr.	**FT-2265HF**	
Težina Weight	kg/m	2.834
Opseg Perimeter	mm	492
Moment inercije Moment of inertia	Ix (cm4)	55.58
	Iy (cm4)	109.02
	Wx (cm3)	18.14
	Wy (cm3)	16.51
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

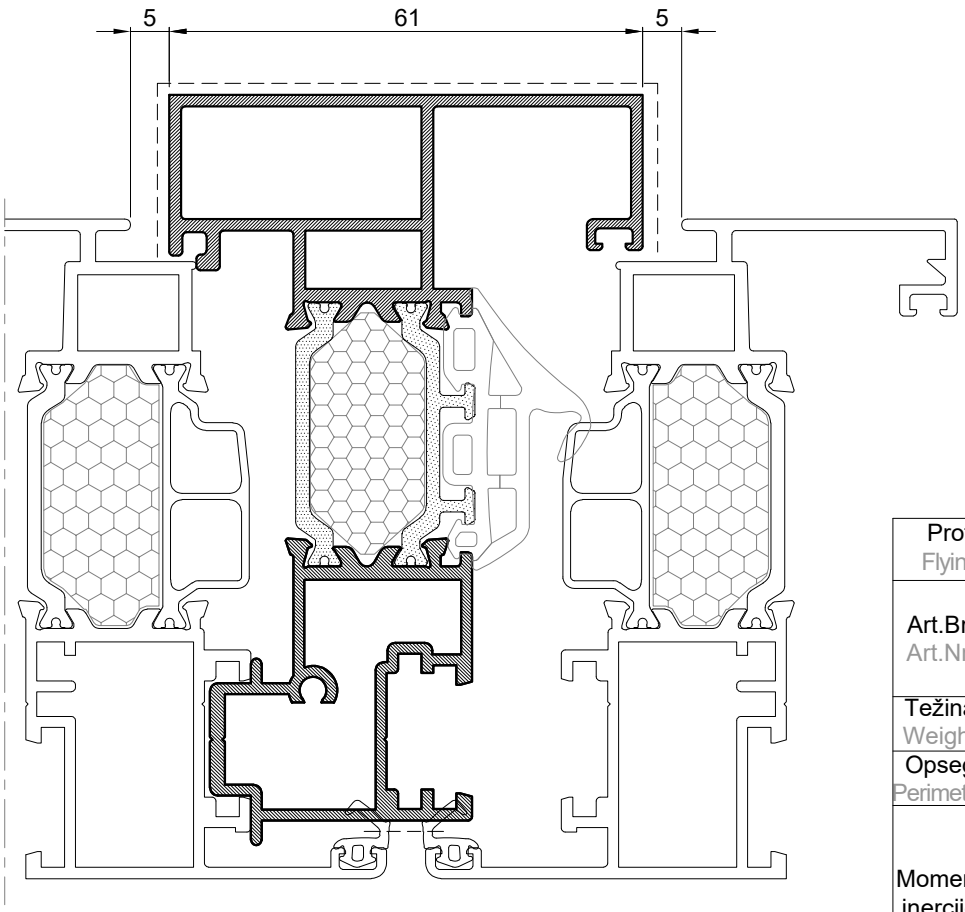


Profil komb.-za prozor Flying mullion-for window		
Art.Br. Art.Nr.	**FT-2286HF**	
Težina Weight	kg/m	1.503
Opseg Perimeter	mm	470
Moment inercije Moment of inertia	Ix (cm4)	26.74
	Iy (cm4)	6.94
	Wx (cm3)	7.42
	Wy (cm3)	2.05
L	mm	6500



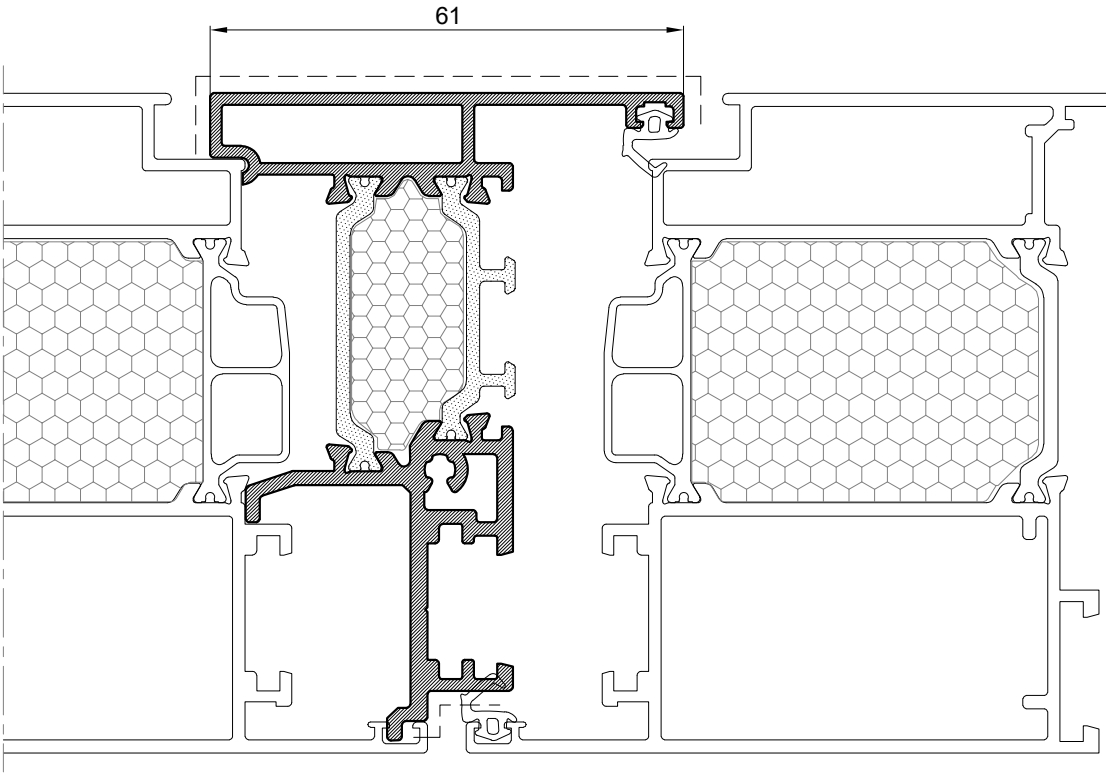
Profil komb.-za prozor Flying mullion-for window		
Art.Br. Art.Nr.	**FT-2211HF**	
Težina Weight	kg/m	1.518
Opseg Perimeter	mm	478
Moment inercije Moment of inertia	Ix (cm4)	29.86
	Iy (cm4)	8.18
	Wx (cm3)	9.15
	Wy (cm3)	2.26
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

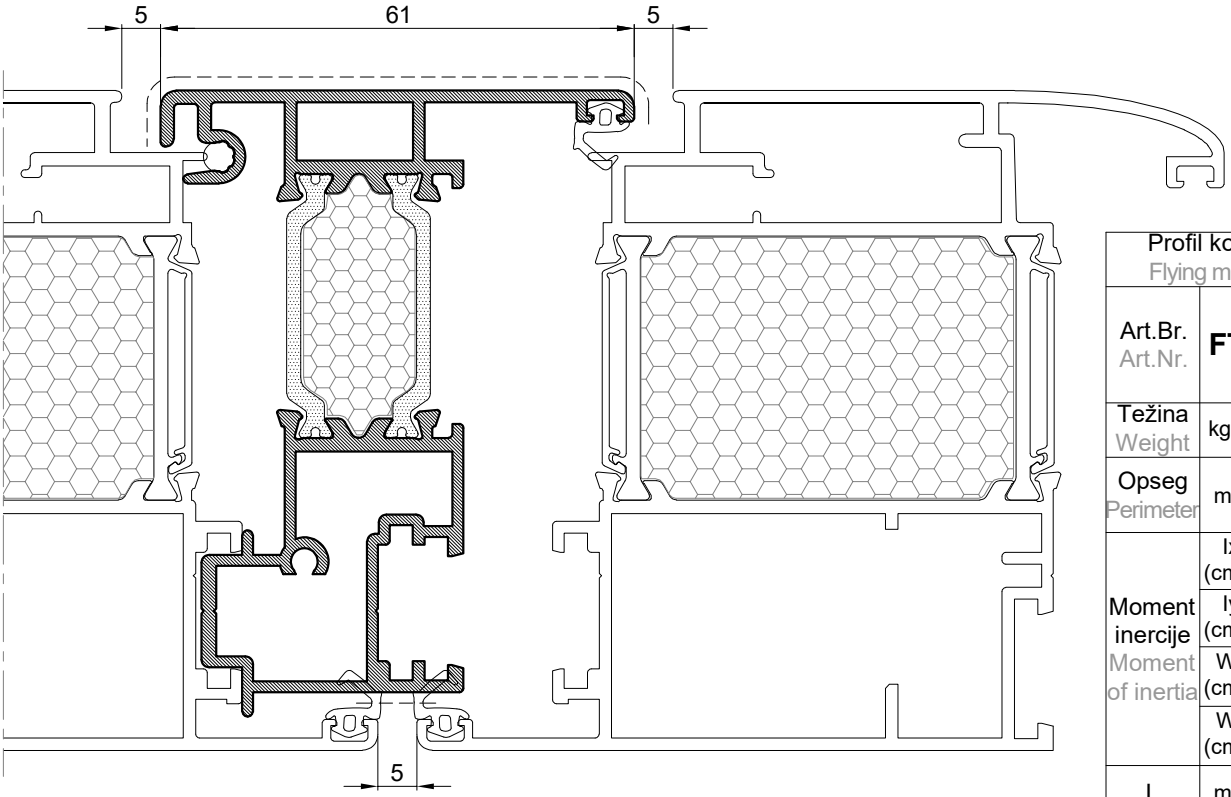


Profil komb.-za prozor Flying mullion-for window		
Art.Br. Art.Nr.	**FT-2271HF**	
Težina Weight	kg/m	1.845
Opseg Perimeter	mm	533
Moment inercije Moment of inertia	Ix (cm4)	48.88
	Iy (cm4)	14.08
	Wx (cm3)	12.14
	Wy (cm3)	3.98
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

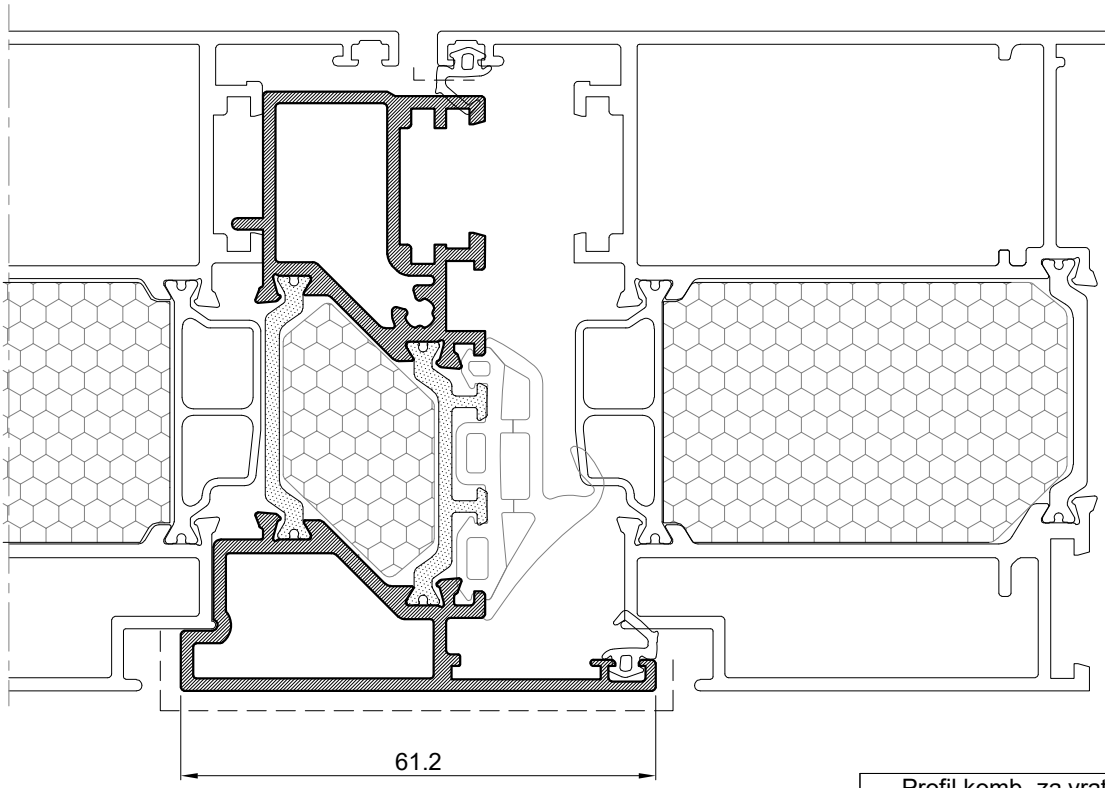


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	**FT-2277HF**	
Težina Weight	kg/m	1.515
Opseg Perimeter	mm	533
Moment inercije Moment of inertia	Ix (cm4)	26.65
	Iy (cm4)	7.58
	Wx (cm3)	7.38
	Wy (cm3)	2.23
L	mm	6500

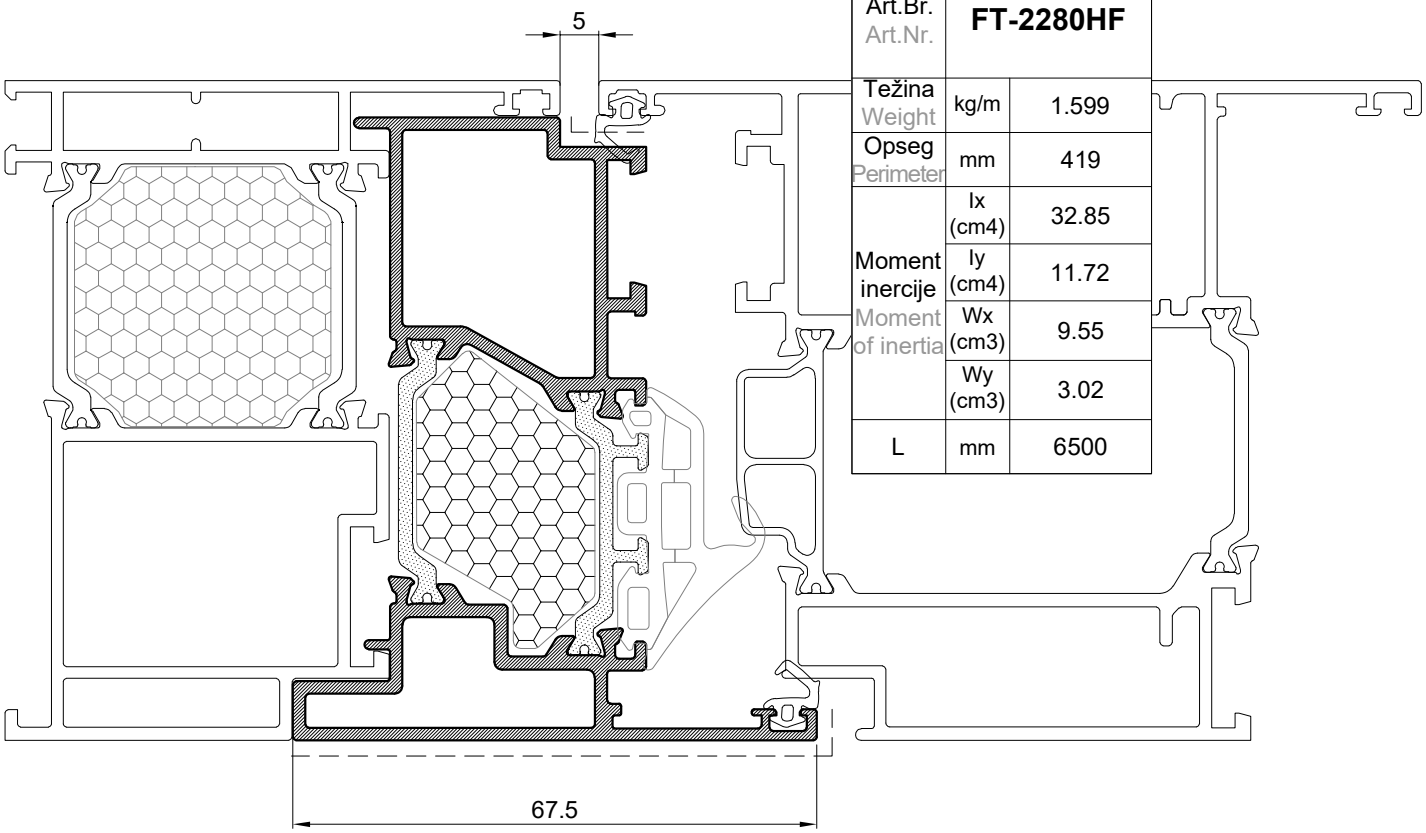


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	**FT-0211-AHF**	
Težina Weight	kg/m	1.557
Opseg Perimeter	mm	435
Moment inercije Moment of inertia	Ix (cm4)	30.58
	Iy (cm4)	8.6
	Wx (cm3)	9.22
	Wy (cm3)	2.34
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

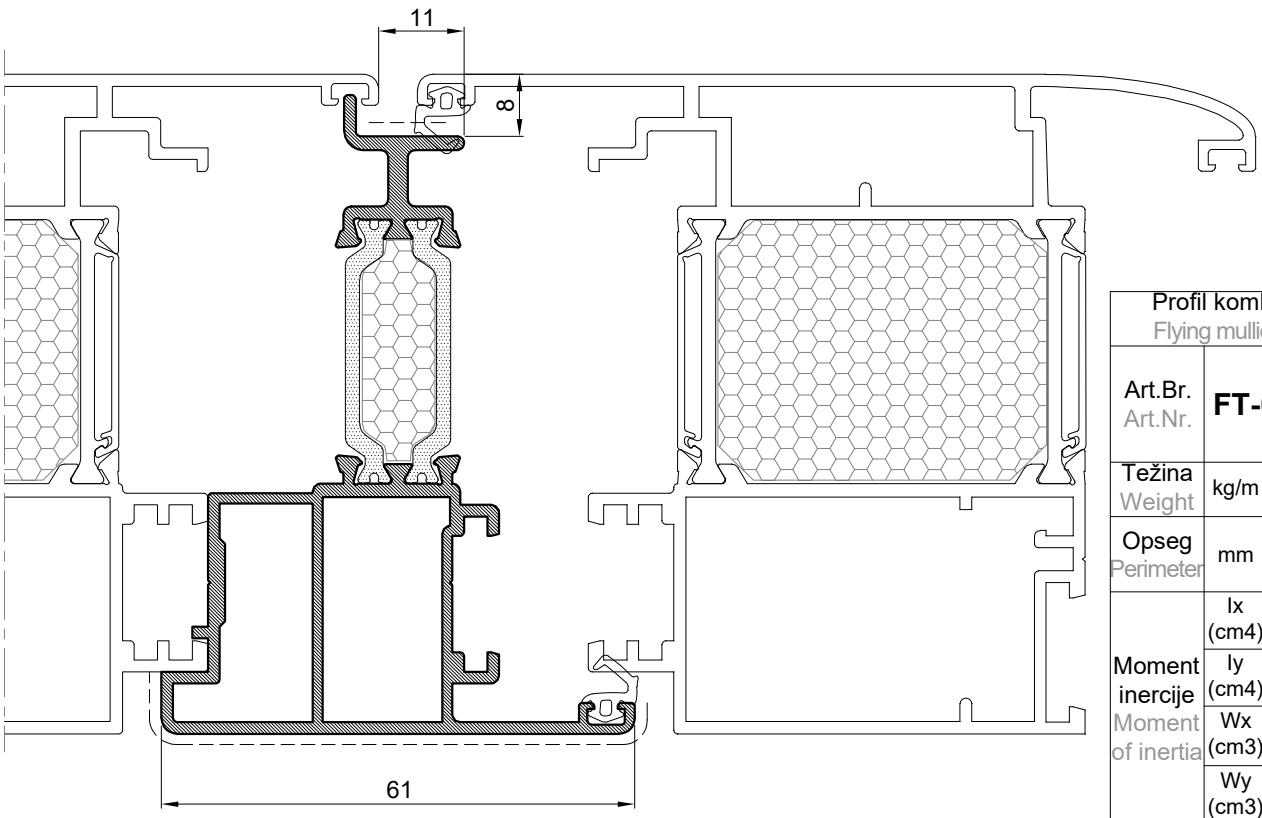


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	**FT-2281HF**	
Težina Weight	kg/m	1.547
Opseg Perimeter	mm	410
Moment inercije Moment of inertia	Ix (cm4)	28.3
	Iy (cm4)	8.73
	Wx (cm3)	9
	Wy (cm3)	2.4
L	mm	6500

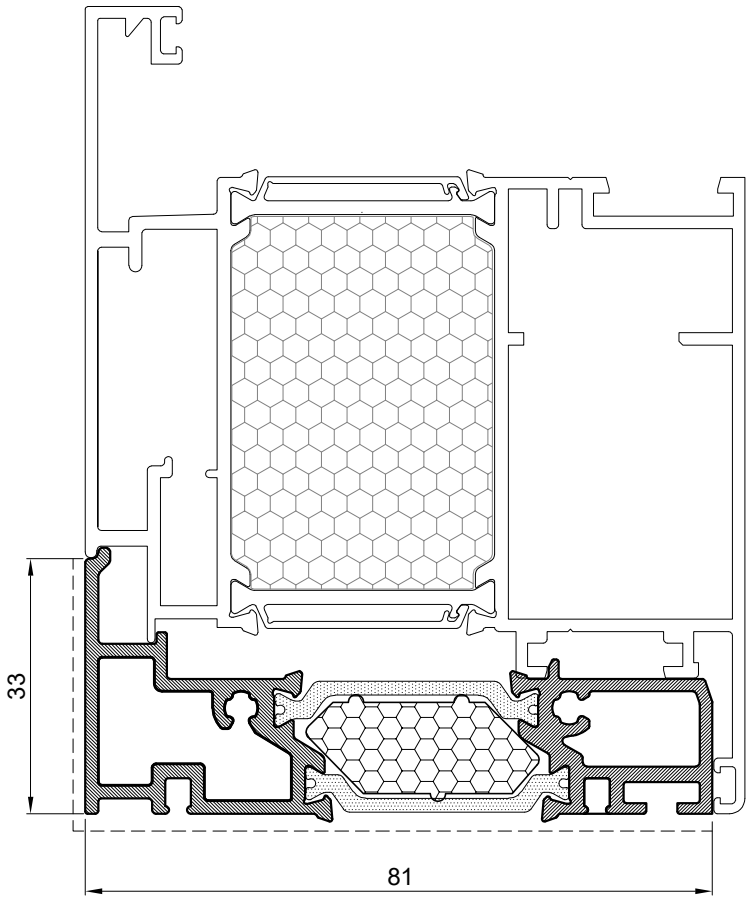


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	**FT-2280HF**	
Težina Weight	kg/m	1.599
Opseg Perimeter	mm	419
Moment inercije Moment of inertia	Ix (cm4)	32.85
	Iy (cm4)	11.72
	Wx (cm3)	9.55
	Wy (cm3)	3.02
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

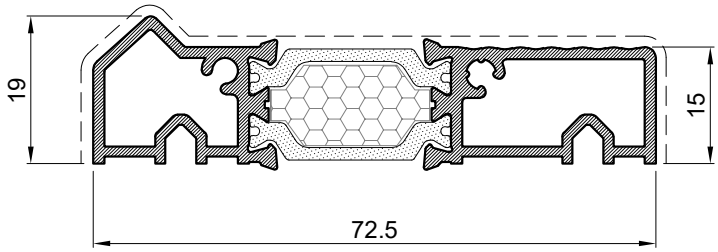


Profil komb.-za vrata Flying mullion-for door		
Art.Br. Art.Nr.	**FT-0213-AHF**	
Težina Weight	kg/m	1.362
Opseg Perimeter	mm	357
Moment inercije Moment of inertia	Ix (cm4)	21.92
	Iy (cm4)	8.21
	Wx (cm3)	5.3
	Wy (cm3)	2.4
L	mm	6500

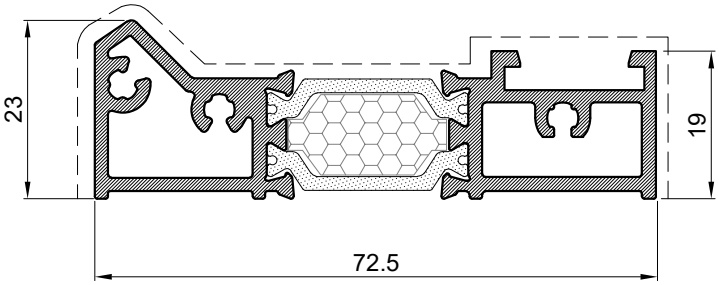


Profil parapeta Profile spandrel		
Art.Br. Art.Nr.	**FT-0288HF**	
Težina Weight	kg/m	1.271
Opseg Perimeter	mm	284
Moment inercije Moment of inertia	Ix (cm4)	2.45
	Iy (cm4)	24.41
	Wx (cm3)	1.03
	Wy (cm3)	7.6
L	mm	6500

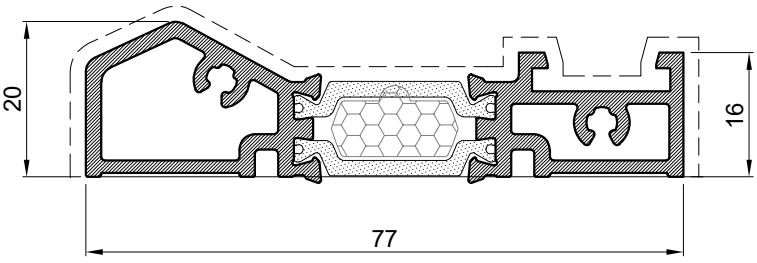
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil praga Profile threshold		
Art.Br. Art.Nr.	**FT-0223HF**	
Težina Weight	kg/m	0.916
Opseg Perimeter	mm	201
L	mm	6500

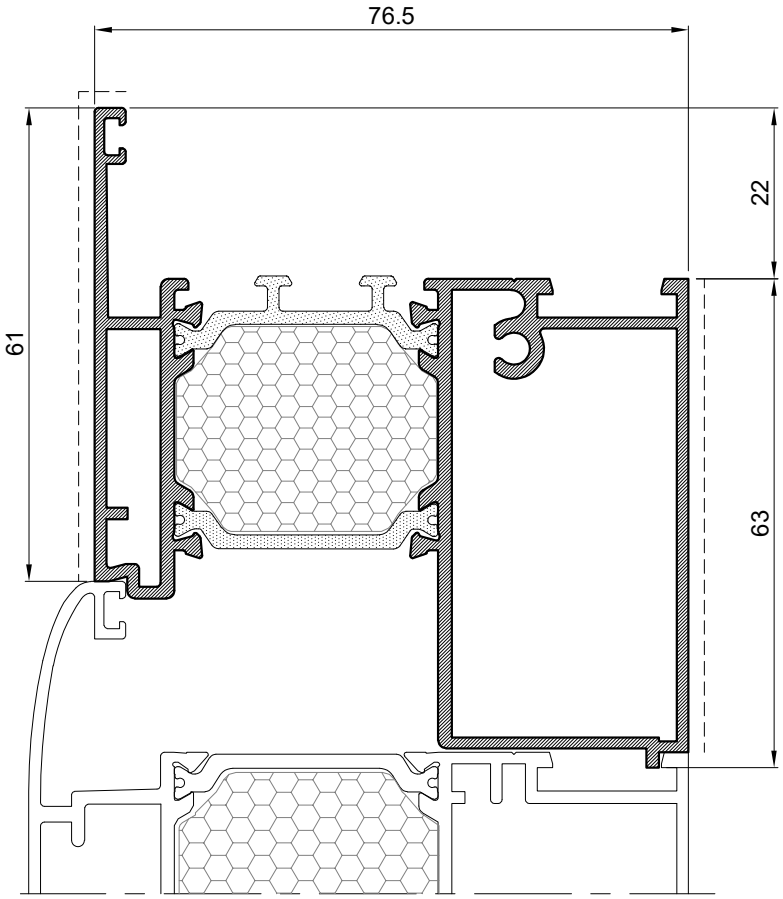


Profil praga Profile threshold		
Art.Br. Art.Nr.	**FT-0294HF**	
Težina Weight	kg/m	1.180
Opseg Perimeter	mm	230
L	mm	6500

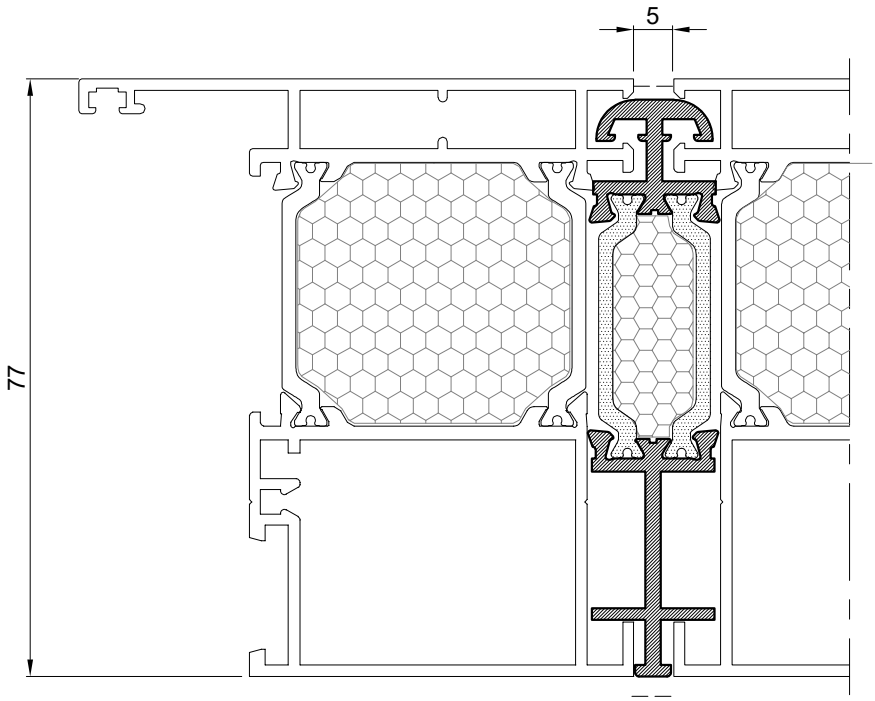


Profil praga Profile threshold		
Art.Br. Art.Nr.	**FT-1620HF**	
Težina Weight	kg/m	1.164
Opseg Perimeter	mm	243
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

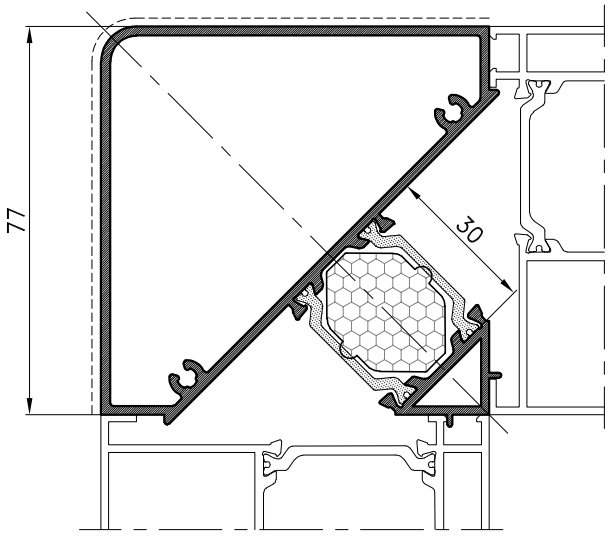


Parapetni profil Spandrel profile		
Art.Br. Art.Nr.	**FT-2228HF**	
Težina Weight	kg/m	1.775
Opseg Perimeter	mm	447
Moment inercije Moment of inertia	Ix (cm4)	24.74
	Iy (cm4)	45.27
	Wx (cm3)	5.58
	Wy (cm3)	11.56
L	mm	6500

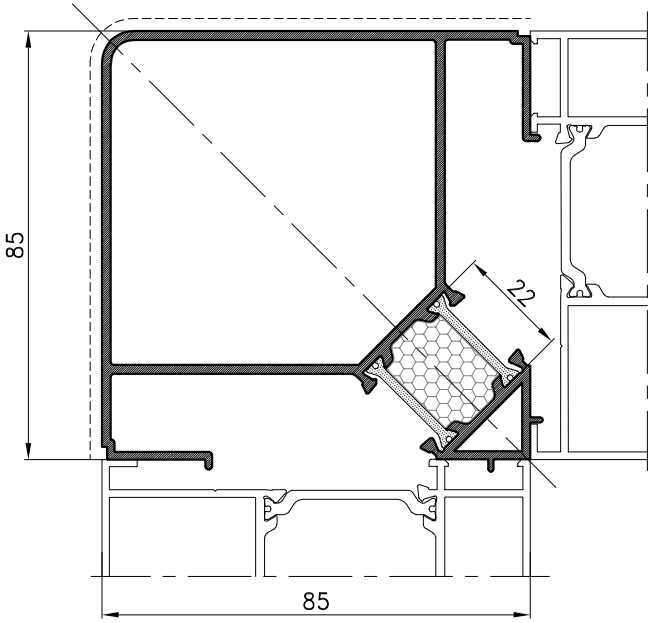


Vezni profil Connection profile		
Art.Br. Art.Nr.	**FT-0216HF**	
Težina Weight	kg/m	0.849
Opseg Perimeter	mm	253
Moment inercije Moment of inertia	Ix (cm4)	11.08
	Iy (cm4)	0.38
	Wx (cm3)	3.79
	Wy (cm3)	0.44
L	mm	6500

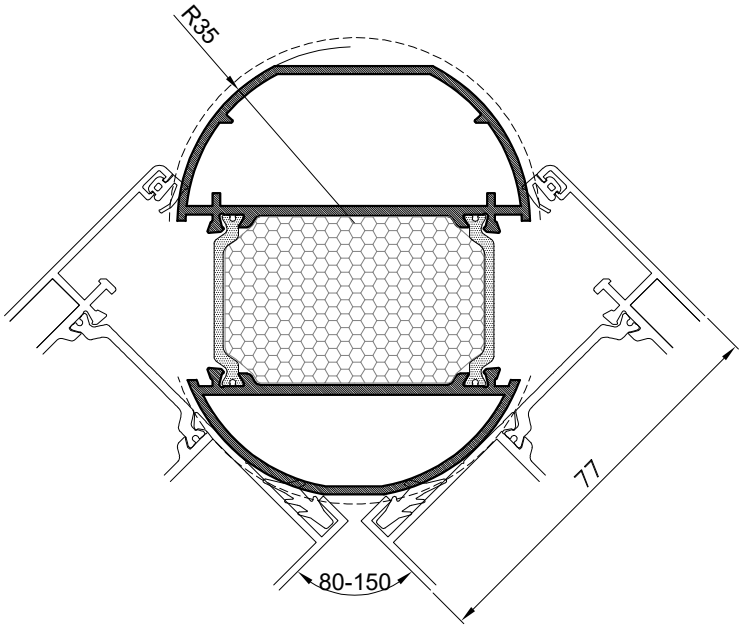
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil za kut 90 Corner profile 90		
Art.br Art.nr.	**FT-1624HF**	
Težina Weight	kg/m	1.920
Opseg Perimeter	mm	376
Moment inercije Moment of inertia	Ix (cm4)	48,03
	Iy (cm4)	52,14
	Wx (cm3)	13,02
	Wy (cm3)	13,02
L	mm	6500



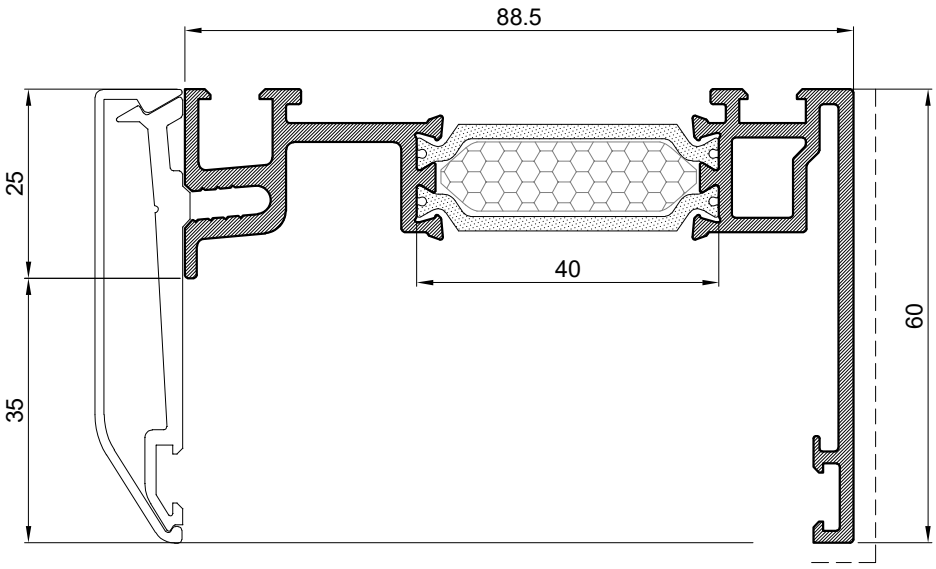
Profil za kut 90 Corner profile 90		
Art.br Art.nr.	**FT-0235HF**	
Težina Weight	kg/m	2.052
Opseg Perimeter	mm	438
Moment inercije Moment of inertia	Ix (cm4)	63.64
	Iy (cm4)	68.81
	Wx (cm3)	15.65
	Wy (cm3)	15.65
L	mm	6500



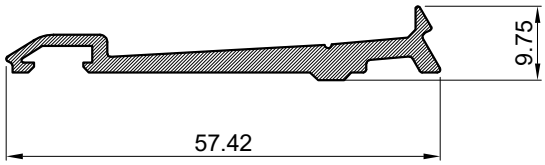
Profil za promjenjivi kut Profile for changeable corner		
Art.br Art.nr.	**FT-0217HF**	
Težina Weight	kg/m	1.859
Opseg Perimeter	mm	310
Moment inercije Moment of inertia	Ix (cm4)	33.67
	Iy (cm4)	27.48
	Wx (cm3)	10.62
	Wy (cm3)	7.85
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

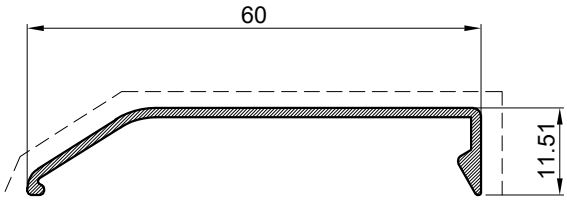
M 1:1.5



Profil za ugradnju Instalation profile		
Art.Br. Art.Nr.	**FT-0242HF**	
Težina Weight	kg/m	1.536
Opseg Perimeter	mm	464
L	mm	6500

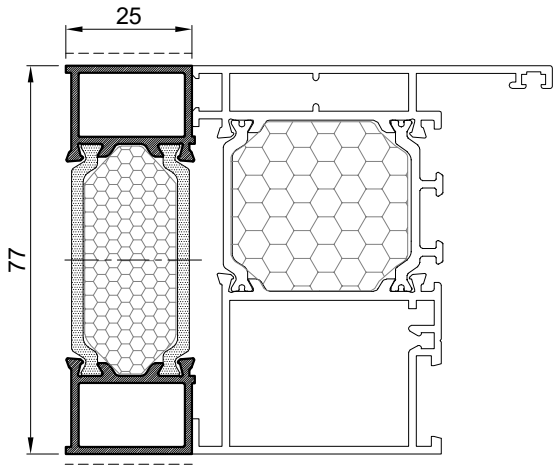


Profil za ugradnju Instalation profile		
Art.Br. Art.Nr.	**F-1190**	
Težina Weight	kg/m	0.461
Opseg Perimeter	mm	145
L	mm	6500

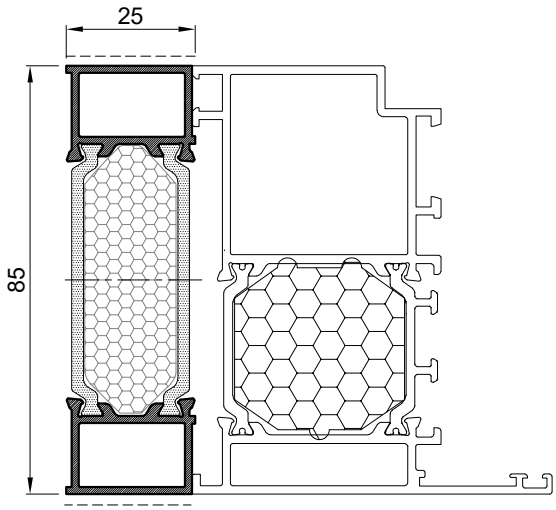


Profil za ugradnju Instalation profile		
Art.Br. Art.Nr.	**FM-072**	
Težina Weight	kg/m	0.258
Opseg Perimeter	mm	152
L	mm	6500

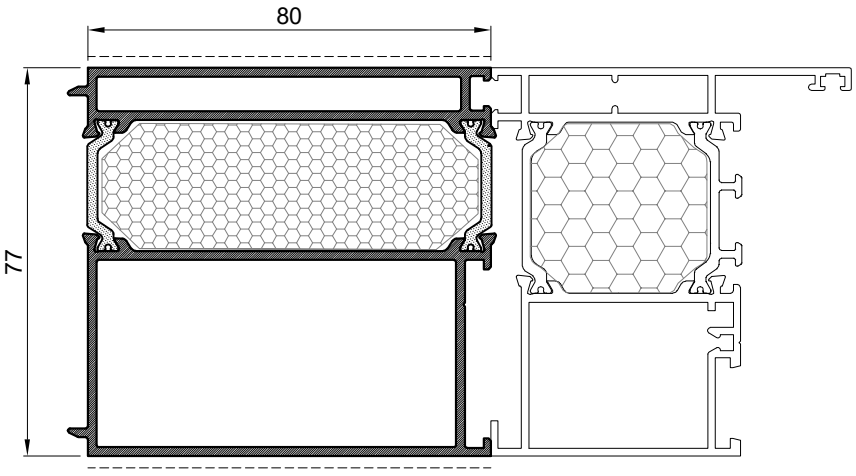
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	**FT-0266HF**	
Težina Weight	kg/m	1.082
Opseg Opseg	mm	220
Moment inercije Moment of inertia	Ix (cm4)	16.51
	Iy (cm4)	2.02
	Wx (cm3)	6
	Wy (cm3)	1.56
L	mm	6500



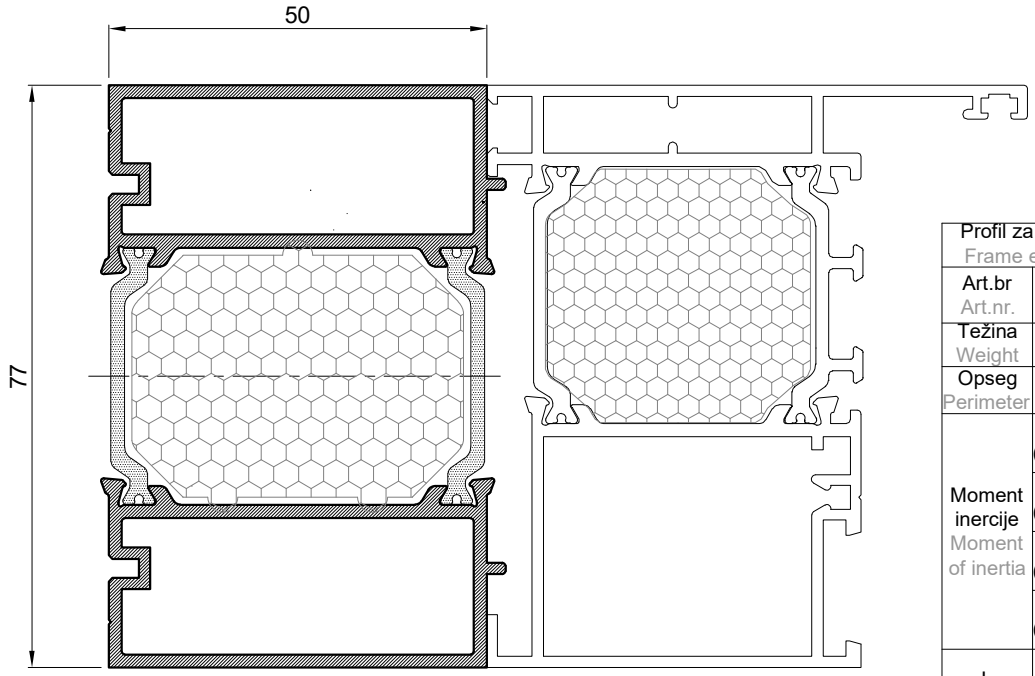
Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	**FT-0267HF**	
Težina Weight	kg/m	1.036
Opseg Opseg	mm	236
Moment inercije Moment of inertia	Ix (cm4)	21.04
	Iy (cm4)	2.02
	Wx (cm3)	6.96
	Wy (cm3)	1.56
L	mm	6500



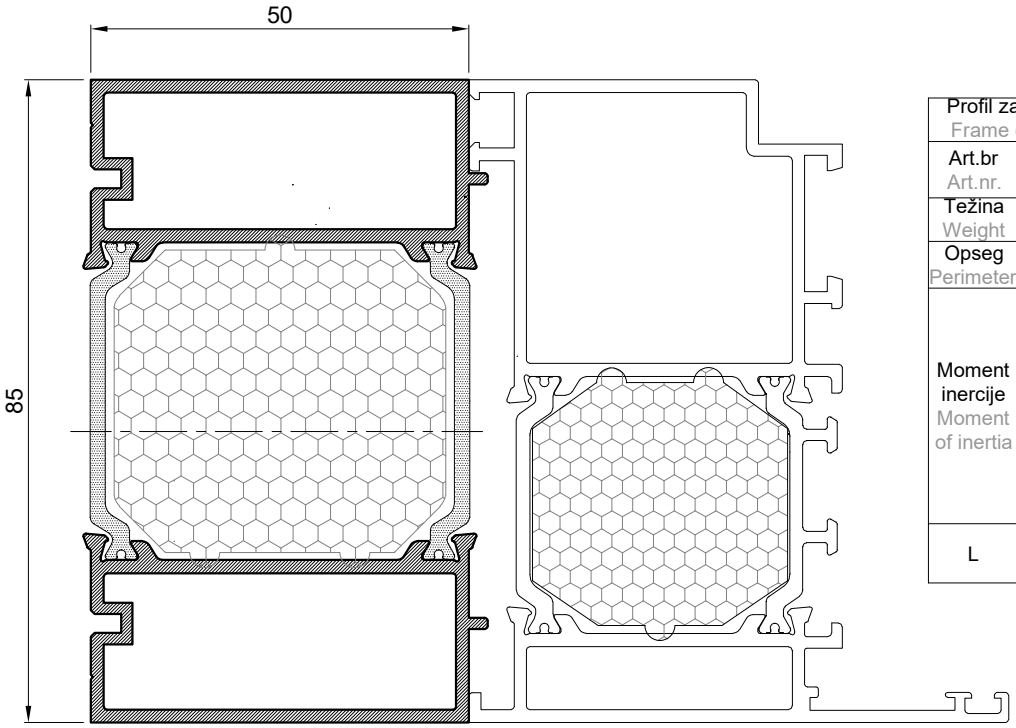
Profil za proširenje rama Frame extension profile		
Art.Br. Art.Nr.	**FT-0273HF**	
Težina Weight	kg/m	2.273
Opseg Perimeter	mm	353
Moment inercije Moment of inertia	Ix (cm4)	47.71
	Iy (cm4)	60.58
	Wx (cm3)	14.45
	Wy (cm3)	14.03
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

M 1:1.5

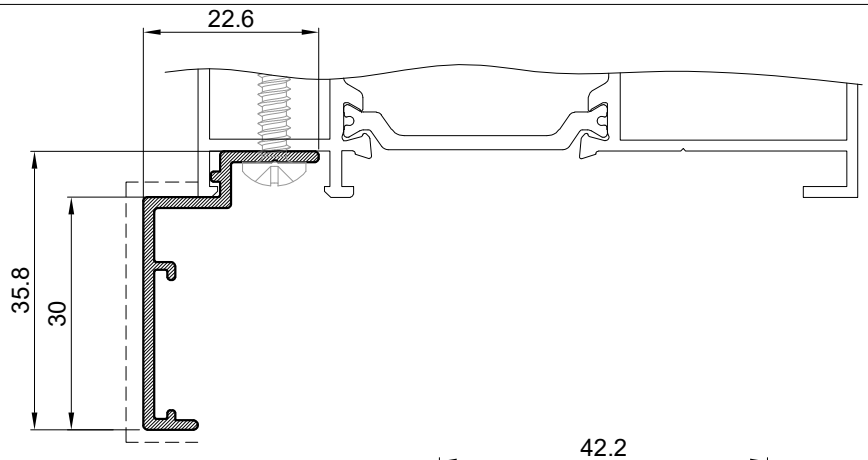


Profil za proširenje rama Frame extension profile		
Art.br Art.nr.	**FT-1622HF**	
Težina Weight	kg/m	1.636
Opseg Perimeter	mm	284
Moment inercije Moment of inertia	Ix (cm4)	31.16
	Iy (cm4)	18.15
	Wx (cm3)	11.07
	Wy (cm3)	6.5
L	mm	6500

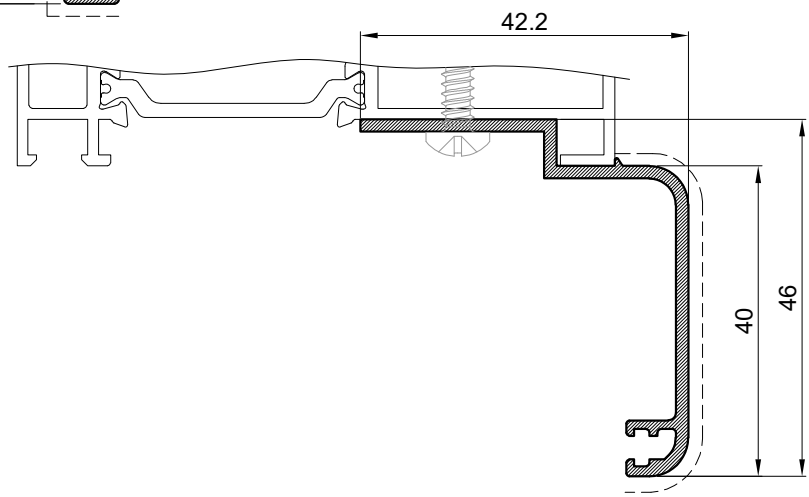


Profil za proširenje rama Frame extension profile		
Art.br Art.nr.	**FT-1623HF**	
Težina Weight	kg/m	1.676
Opseg Perimeter	mm	300
Moment inercije Moment of inertia	Ix (cm4)	39.88
	Iy (cm4)	18.15
	Wx (cm3)	12.95
	Wy (cm3)	6.5
L	mm	6500

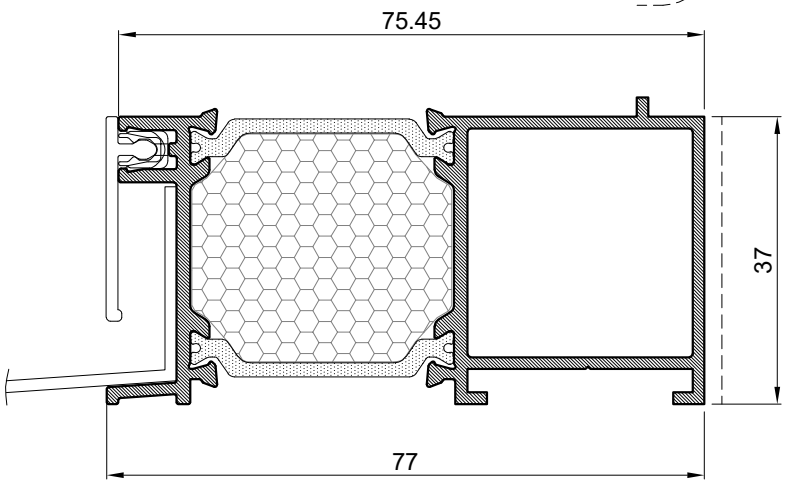
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



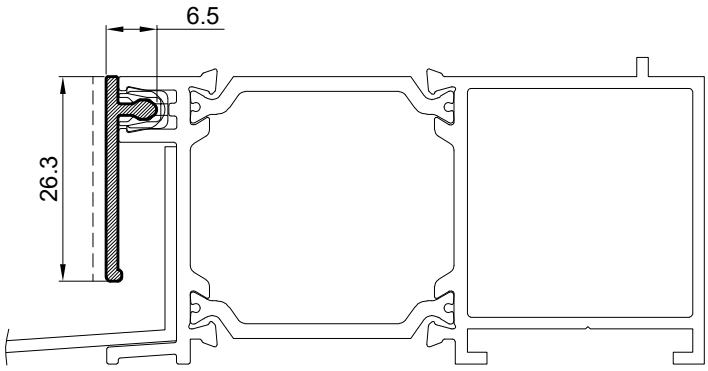
Profil Profile		
Art.Br. Art.Nr.	**F-1482**	
Težina Weight	kg/m	0.252
Opseg Perimeter	mm	137
L	mm	6500



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



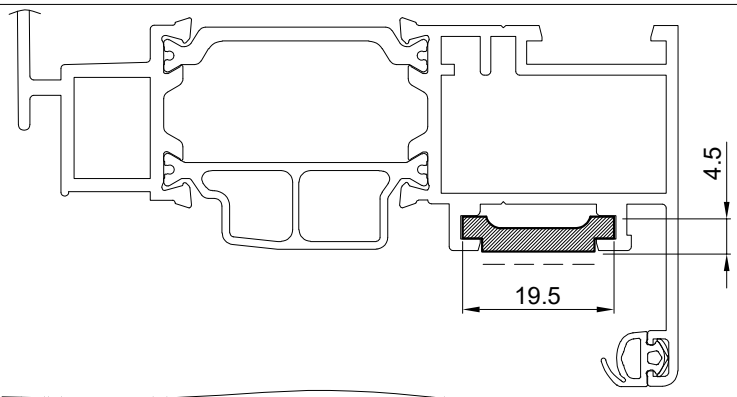
Profil za ugradnju Installation profile		
Art.Br. Art.Nr.	**FT-0289HF**	
Težina Weight	kg/m	1.214
Opseg Perimeter	mm	295
Moment inercije Moment of inertia	Ix (cm4)	6.57
	Iy (cm4)	25.59
	Wx (cm3)	3.28
	Wy (cm3)	6.21
L	mm	6500



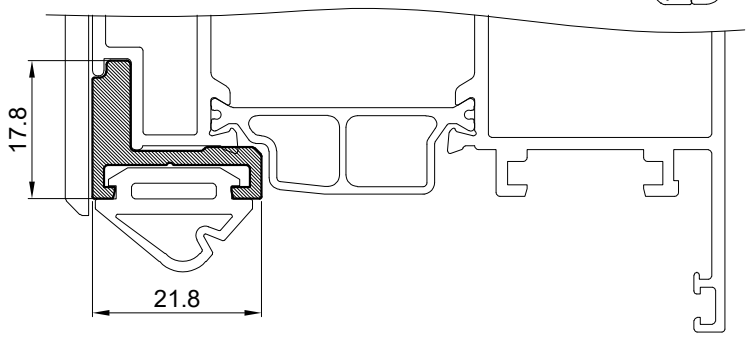
Profil Profile		
Art.Br. Art.Nr.	**F-1552**	
Težina Weight	kg/m	0.133
Opseg Perimeter	mm	66
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

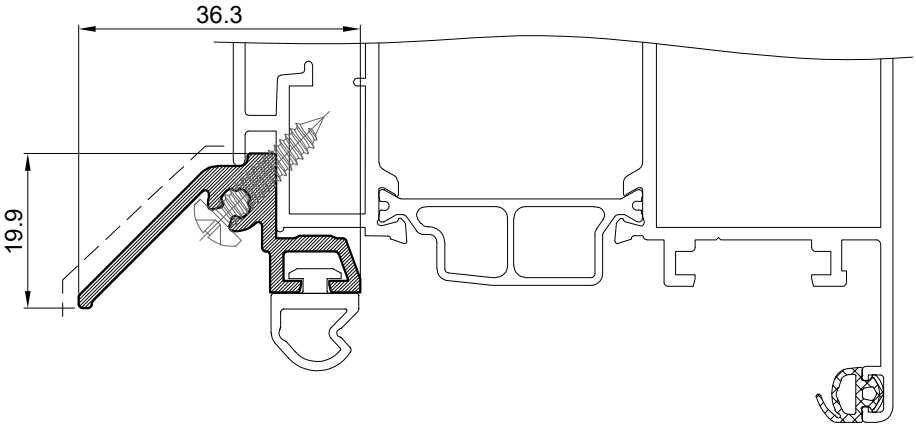
Profil klizača Slide profile		
Art.Br. Art.Nr.	**NC-1459**	
Težina Weight	kg/m	0.156
Opseg Perimeter	mm	51
L	mm	6500

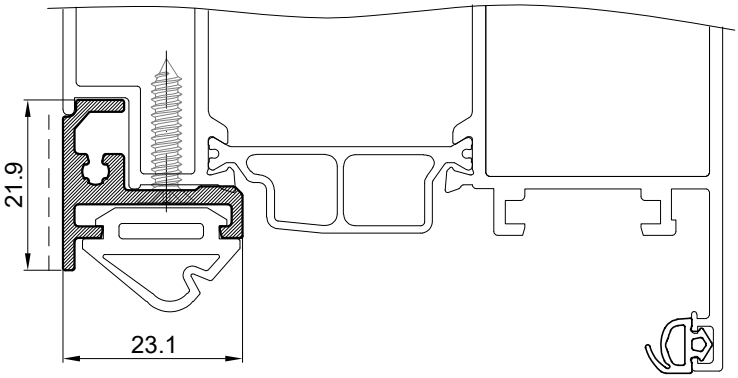


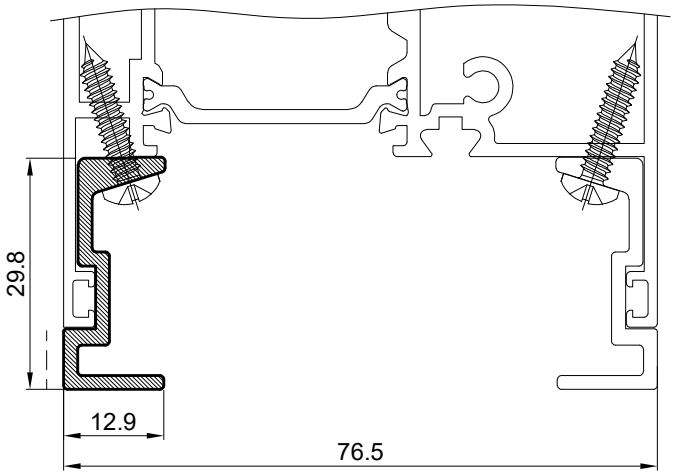
Profile Profile		
Art.Br. Art.Nr.	**F-1661**	
Težina Weight	kg/m	0.308
Opseg Perimeter	mm	94
L	mm	6500



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

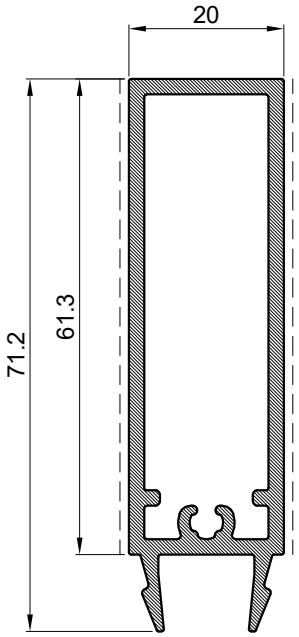




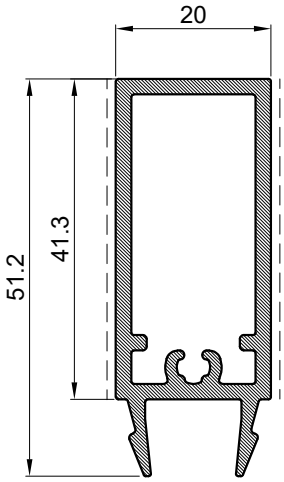


Profile Profile		
Art.Br. Art.Nr.	**F-1483**	
Težina Weight	kg/m	0.314
Opseg Perimeter	mm	127
L	mm	6500

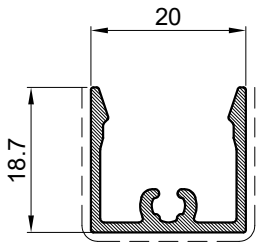
Profile Profile		
Art.Br. Art.Nr.	**F-1408**	
Težina Weight	kg/m	0.312
Opseg Perimeter	mm	112
L	mm	6500



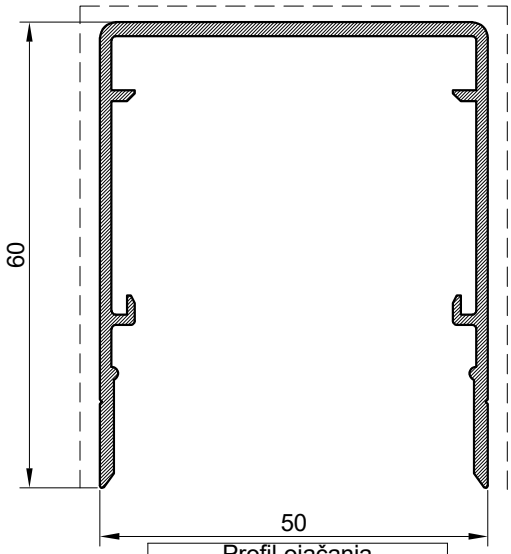
Profil ojačanja prečke Window crossbar reinforcement		
Art.Br. Art.Nr.	**NP-4183**	
Težina Weight	kg/m	0.990
Opseg Perimeter	mm	200
Moment inercije Moment of inertia	Ix (cm4)	18.21
	Iy (cm4)	2.34
	Wx (cm3)	5.11
	Wy (cm3)	2.34
L	mm	6500

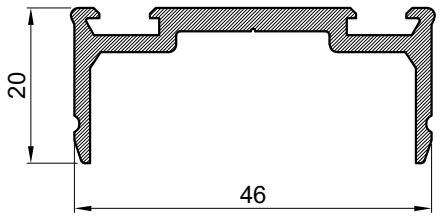


Profil ojačanja prečke Window crossbar reinforcement		
Art.Br. Art.Nr.	**F-1634**	
Težina Weight	kg/m	0.774
Opseg Perimeter	mm	160
Moment inercije Moment of inertia	Ix (cm4)	7.06
	Iy (cm4)	1.69
	Wx (cm3)	2.69
	Wy (cm3)	1.69
L	mm	6500



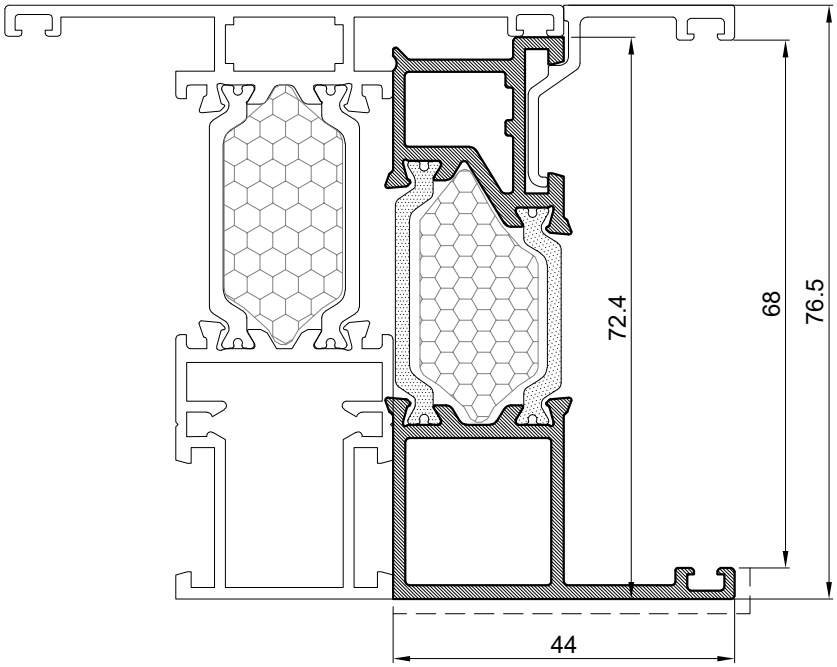
Maska profila ojačanja Reinforcement profile mask		
Art.Br. Art.Nr.	**NP-4184**	
Težina Weight	kg/m	0.243
Opseg Perimeter	mm	129
L	mm	6500



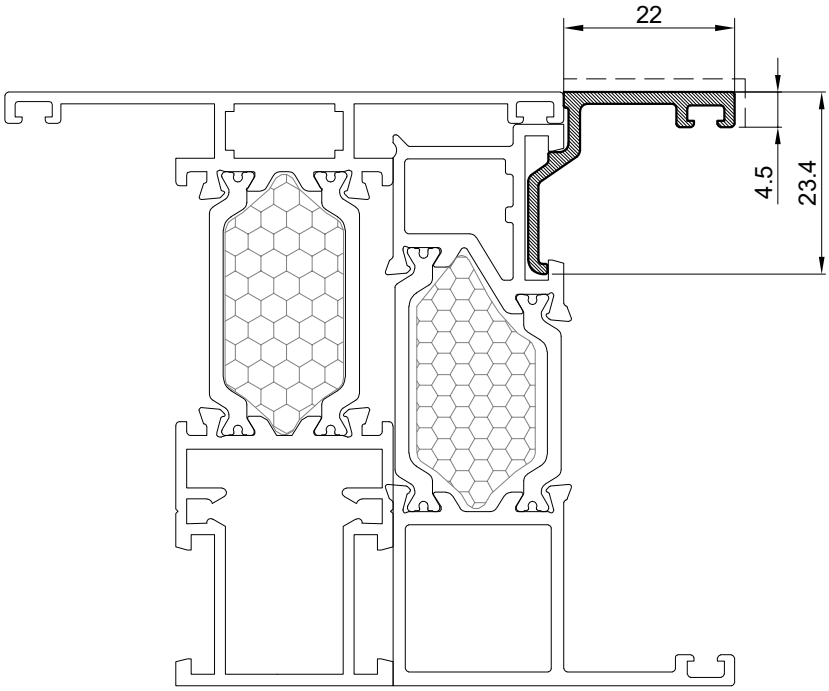


Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	**FMO 50/20D**	
Težina Weight	kg/m	0.558
Opseg Perimeter	mm	185
L	mm	6500

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



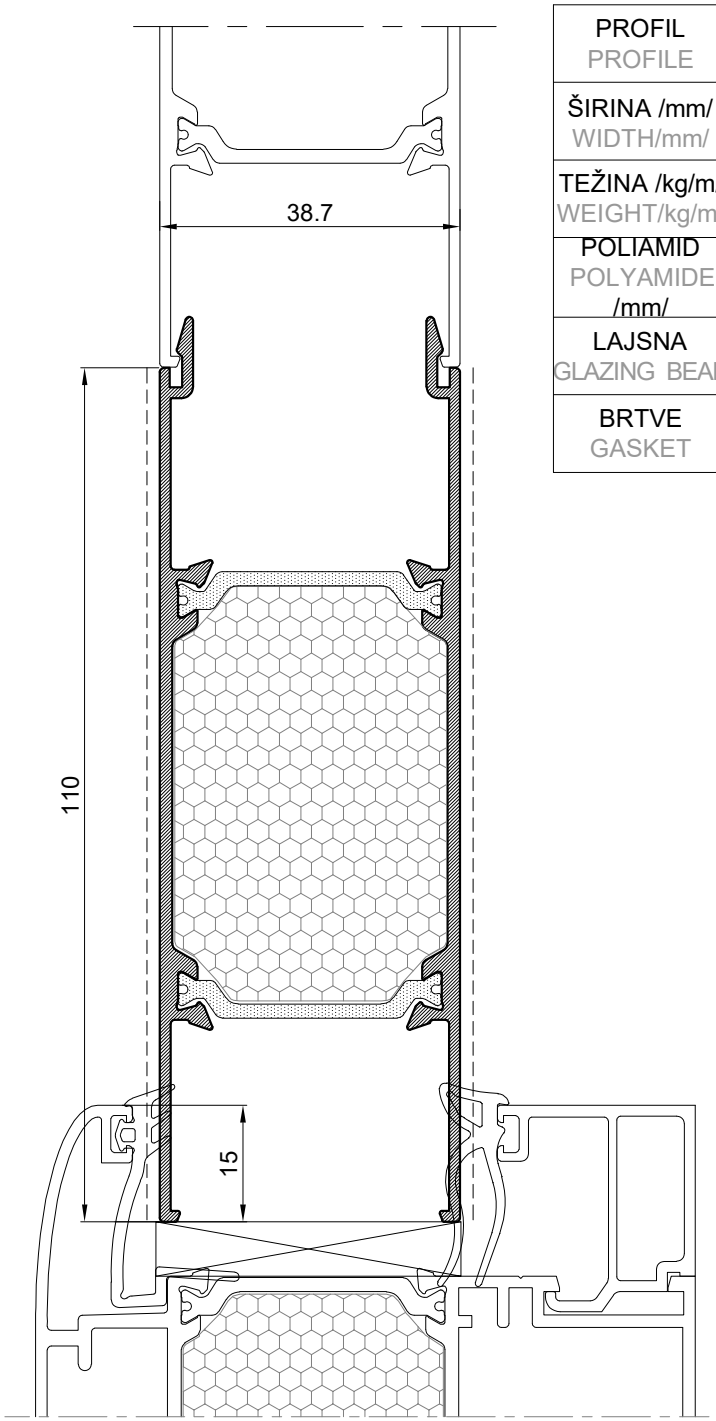
Profil rama Profile frame		
Art.Br. Art.Nr.	**FT-0293HF**	
Težina Weight	kg/m	1.183
Opseg Perimeter	mm	270
Moment inercije Moment of inertia	Ix (cm4)	17.97
	Iy (cm4)	4.04
	Wx (cm3)	6.06
	Wy (cm3)	1.34
L	mm	6500



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

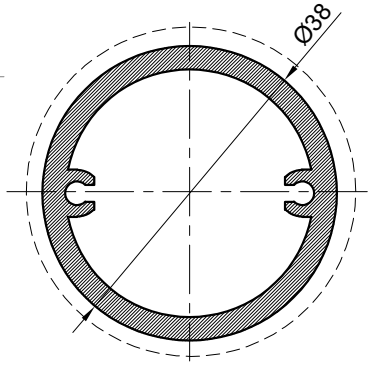
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

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



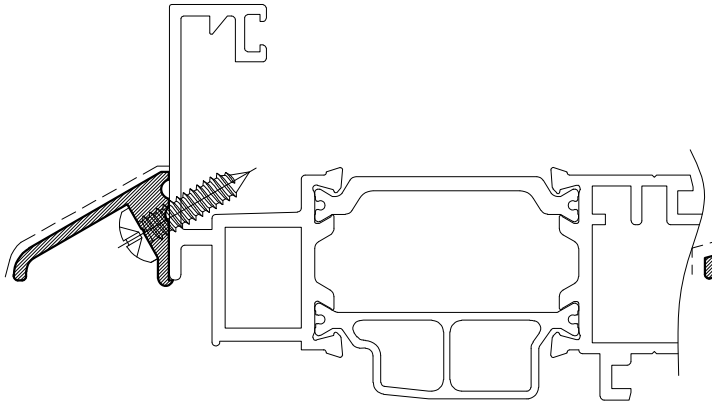
PROFIL PROFILE	**FT-0142-39F**	**FT-0142-35F**	**FT-0142-33F**	**FT-0142-27F**
ŠIRINA /mm/ WIDTH/mm/	38.7	34.7	32.7	26.7
TEŽINA /kg/m/ WEIGHT/kg/m/	1.437	1.423	1.413	1.372
POLIAMID POLYAMIDE /mm/	34	30	28	22
LAJSNA GLAZING BEAD	Z40-667 *(25.5 mm)*	Z40-668 *(30.5 mm)*	Z40-668 *(30.5 mm)*	Z40-669 *(35.5 mm)*
BRTVE GASKET	321.004 i 311.004	321.004 i 311.003	321.004 i 311.004	321.004 i 311.005

Profil ispuna Profile insulation		
Art.Br. Art.Nr.	**FT-0142-39F**	
Težina Weight	kg/m	1.437
Opseg Perimeter	mm	452
Moment inercije Moment of inertia	Ix (cm4)	48
	Iy (cm4)	14.56
	Wx (cm3)	8.16
	Wy (cm3)	7.53
L	mm	6500

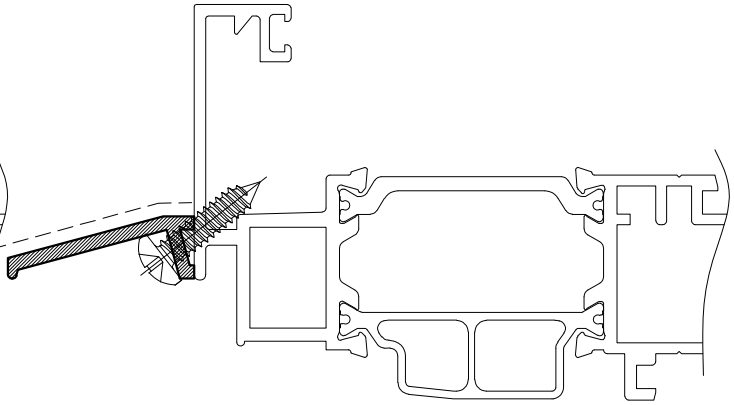


Profil rukohvata vrata Door handle profile		
Art.Br. Art.Nr.	**F-0829**	
Težina Weight	kg/m	0.953
Opseg Perimeter	mm	119
L	mm	6500

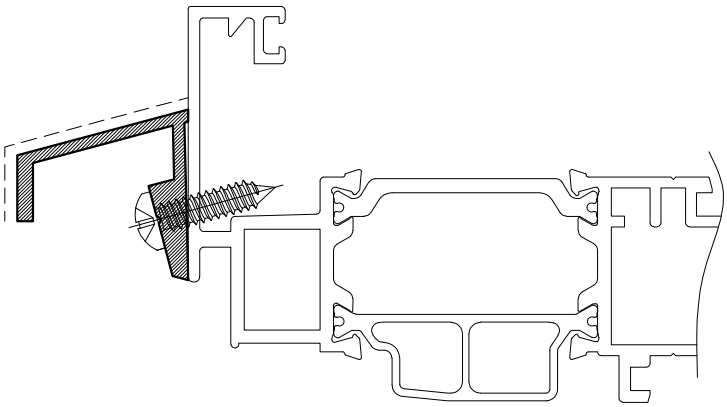
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"



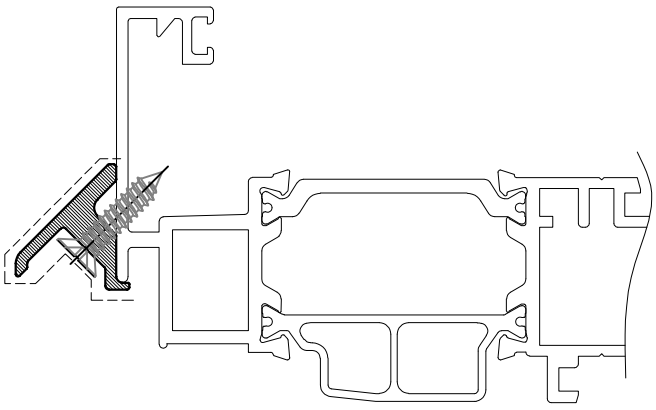
Profil Profile		
Art.Br. Art.Nr.	**Z40-657**	
Težina Weight	kg/m	0.186
Opseg Perimeter	mm	73
L	mm	6500



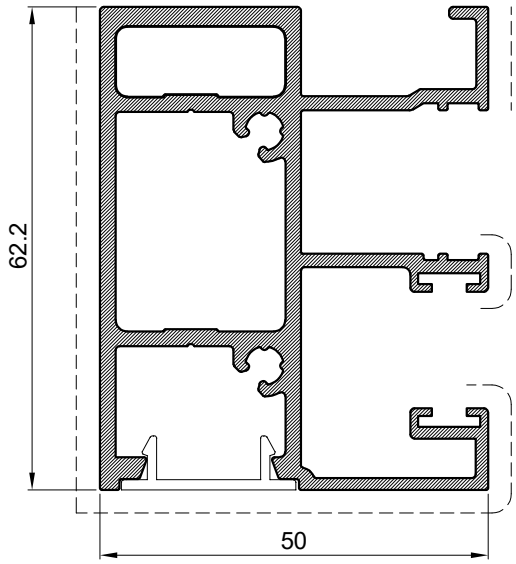
Profil Profile		
Art.Br. Art.Nr.	**F-0228**	
Težina Weight	kg/m	0.153
Opseg Perimeter	mm	68
L	mm	6500



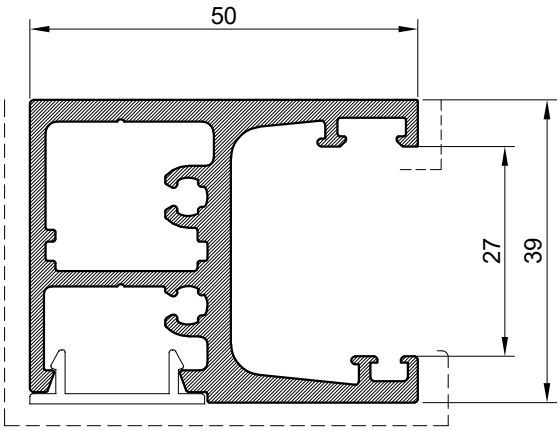
Profil Profile		
Art.Br. Art.Nr.	**060350**	
Težina Weight	kg/m	0.285
Opseg Perimeter	mm	107
L	mm	6500



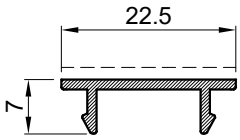
Profil Profile		
Art.Br. Art.Nr.	**F-1842**	
Težina Weight	kg/m	0.18
Opseg Perimeter	mm	63
L	mm	6500



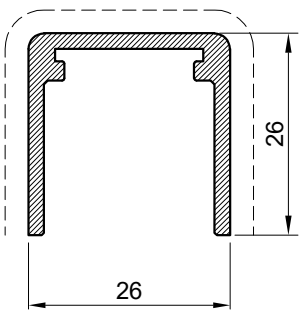
Profil za komaricu i sjenilo Profile for mosquito net and shades		
Art.Br. Art.No.	**F-1839**	
Težina Weight	kg/m	1.689
Opseg Perimeter	mm	461
L	mm	6500



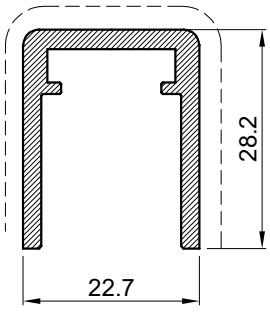
Profil francuskog balkona French balcony profile		
Art.Br. Art.Nr.	**F-1837**	
Težina Weight	kg/m	1.381
Opseg Perimeter	mm	303
L	mm	6500



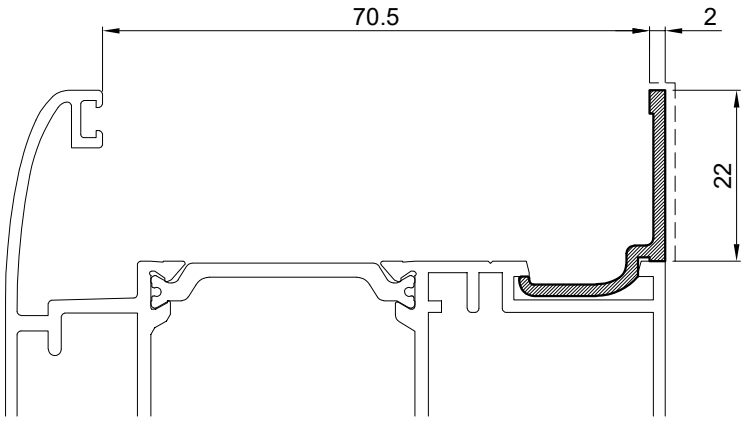
Pokrivni profil Cover profile		
Art.Br. Art.Nr.	**F-0826**	
Težina Weight	kg/m	0.117
Opseg Perimeter	mm	70
L	mm	6500



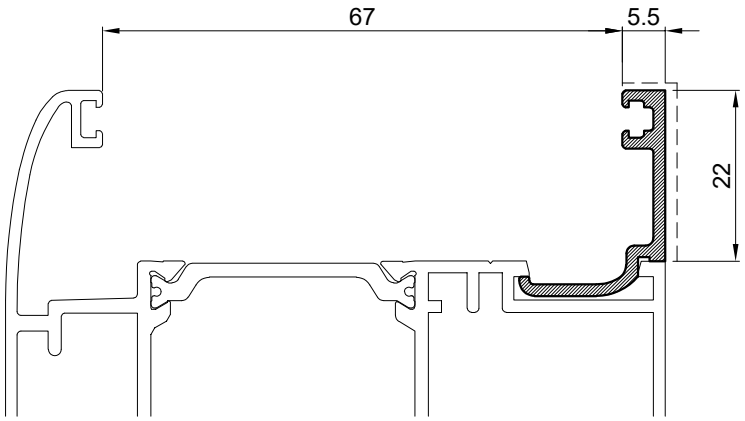
Profil rukovata za st. 1010.4 Handrail profile for gl.1010.4		
Art.Br. Art.Nr.	**F-1437**	
Težina Weight	kg/m	0.440
Opseg Perimeter	mm	154
L	mm	6500



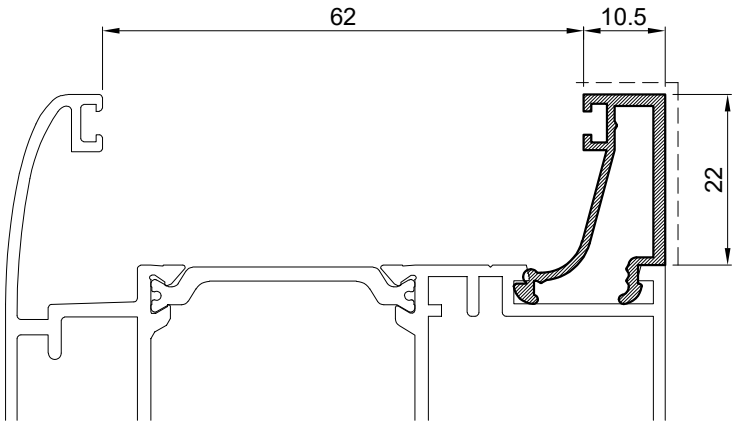
Profil rukovata za st. 88.4 Handrail profile for gl. 88.4		
Art.Br. Art.Nr.	**F-1490**	
Težina Weight	kg/m	0.512
Opseg Perimeter	mm	158
L	mm	6500



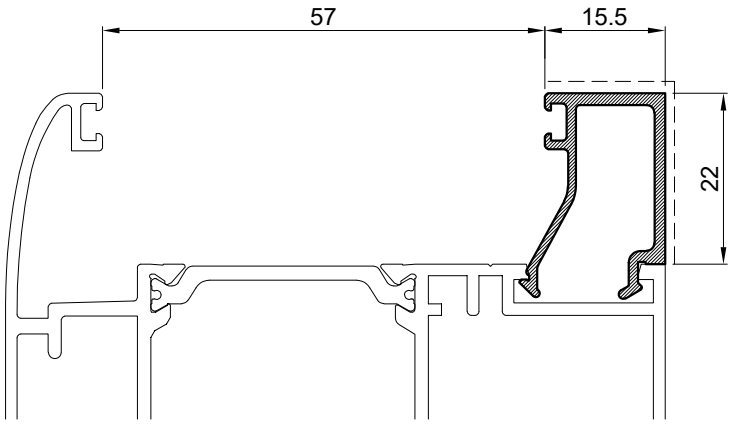
Profil Profile		
Art.Br. Art.Nr.	**Z40-660**	
Težina Weight	kg/m	0.179
Opseg Perimeter	mm	89
L	mm	6500



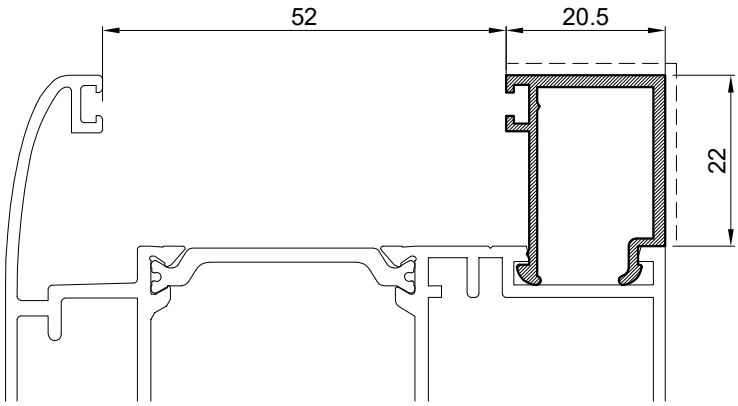
Profil Profile		
Art.Br. Art.Nr.	**Z40-656**	
Težina Weight	kg/m	0.215
Opseg Perimeter	mm	107
L	mm	6500



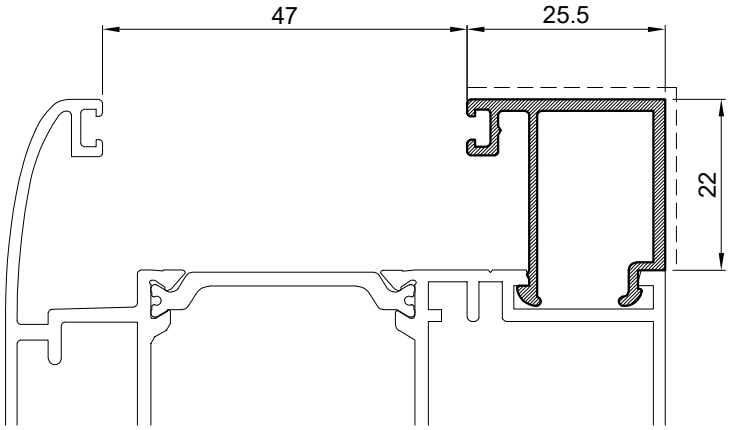
Profil Profile		
Art.Br. Art.Nr.	**Z40-636**	
Težina Weight	kg/m	0.261
Opseg Perimeter	mm	158
L	mm	6500



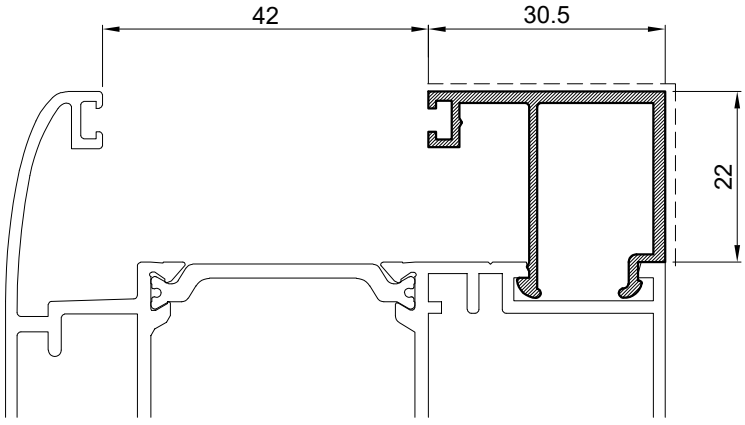
Profil Profile		
Art.Br. Art.Nr.	**M45-709**	
Težina Weight	kg/m	0.269
Opseg Perimeter	mm	153
L	mm	6500



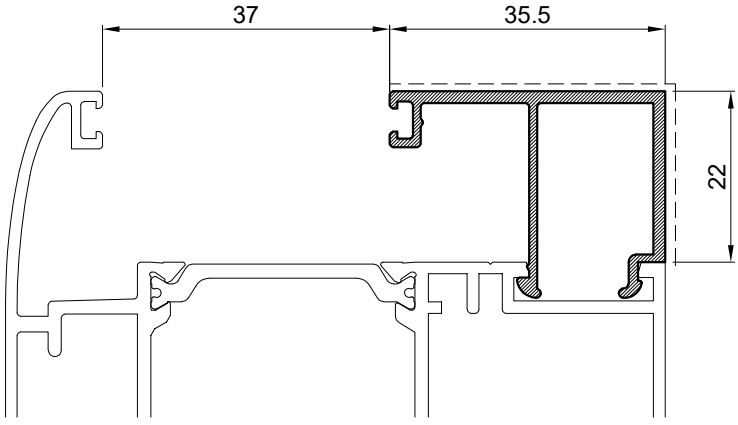
Profil Profile		
Art.Br. Art.Nr.	**Z40-644**	
Težina Weight	kg/m	0.275
Opseg Perimeter	mm	166
L	mm	6500



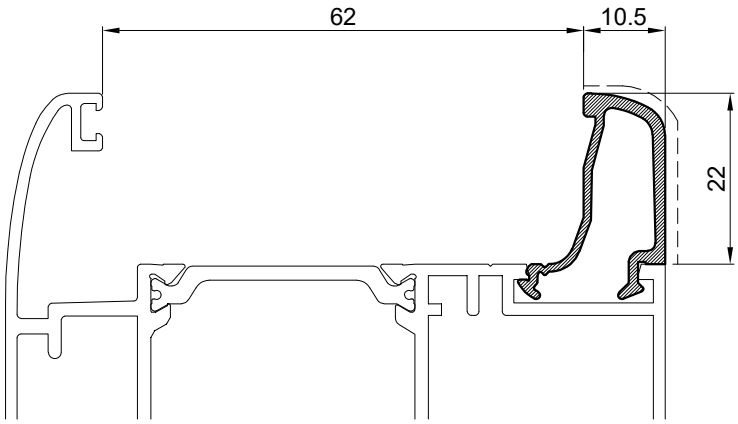
Profil Profile		
Art.Br. Art.Nr.	**Z40-658**	
Težina Weight	kg/m	0.318
Opseg Perimeter	mm	184
L	mm	6500



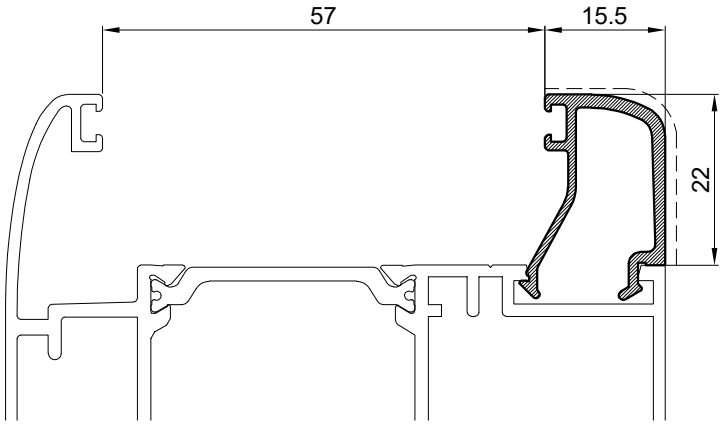
Profil Profile		
Art.Br. Art.Nr.	**Z40-653**	
Težina Weight	kg/m	0.348
Opseg Perimeter	mm	196
L	mm	6500



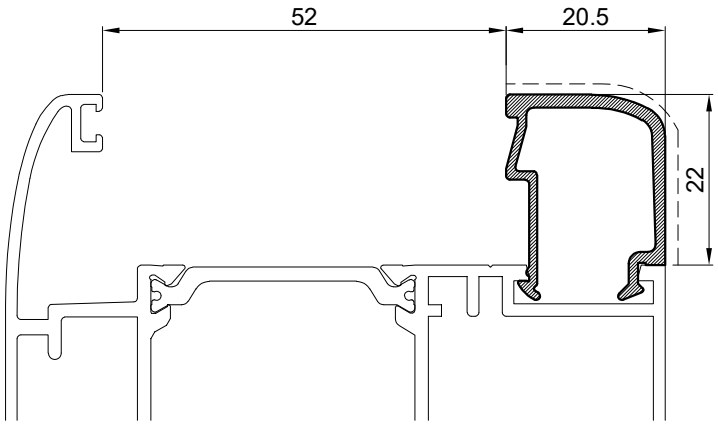
Profil Profile		
Art.Br. Art.Nr.	**Z40-659**	
Težina Weight	kg/m	0.359
Opseg Perimeter	mm	204
L	mm	6500



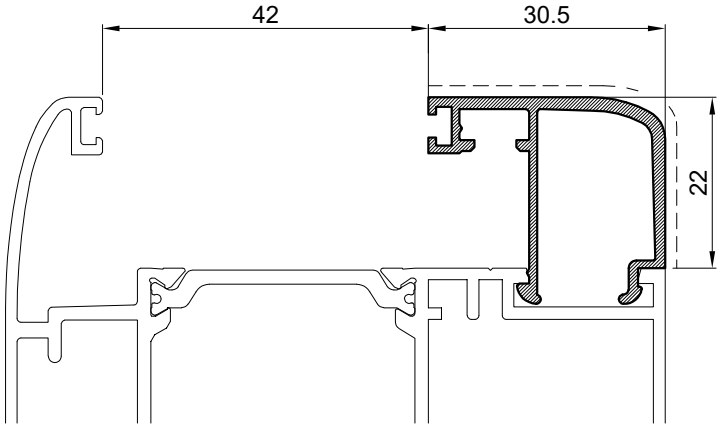
Profil Profile		
Art.Br. Art.Nr.	**Z40-647**	
Težina Weight	kg/m	0.226
Opseg Perimeter	mm	138
L	mm	6500



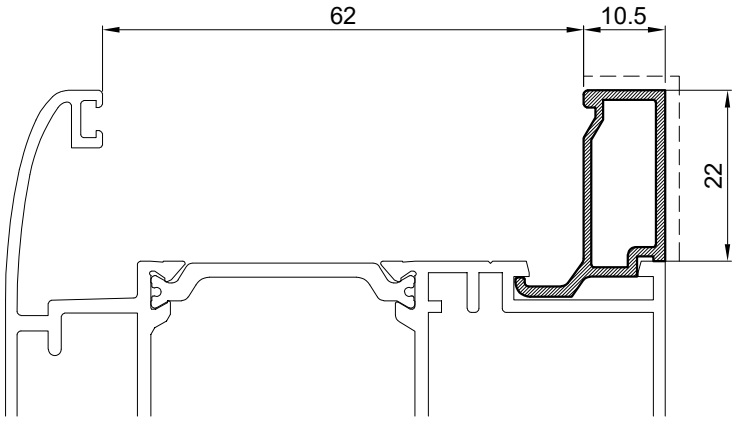
Profil Profile		
Art.Br. Art.Nr.	**M45-740**	
Težina Weight	kg/m	0.258
Opseg Perimeter	mm	148
L	mm	6500



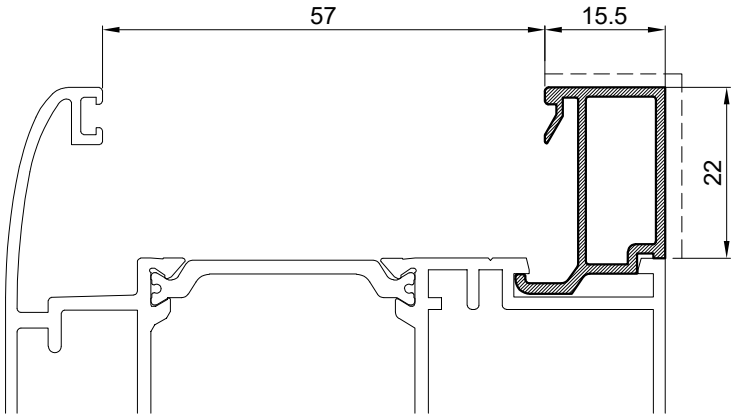
Profil Profile		
Art.Br. Art.Nr.	**Z40-646**	
Težina Weight	kg/m	0.286
Opseg Perimeter	mm	154
L	mm	6500



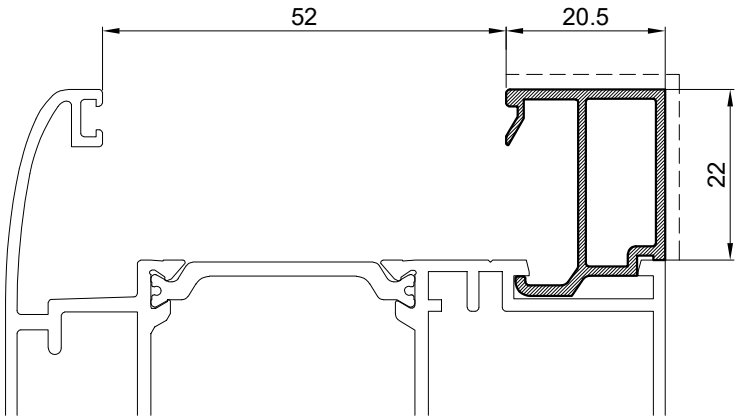
Profil Profile		
Art.Br. Art.Nr.	**Z40-653/B**	
Težina Weight	kg/m	0.356
Opseg Perimeter	mm	197
L	mm	6500



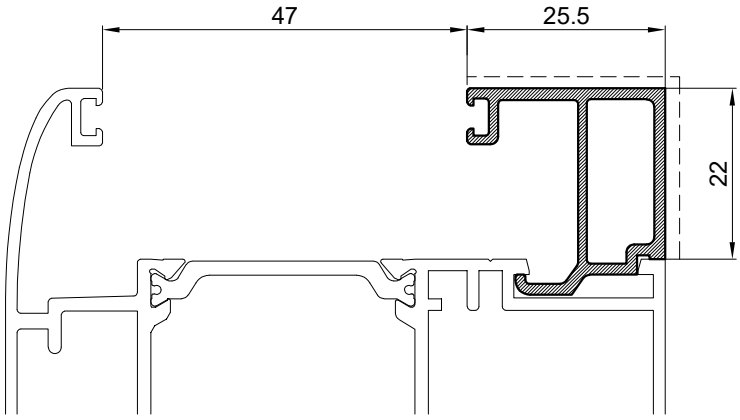
Profil Profile		
Art.Br. Art.Nr.	**Z40-664**	
Težina Weight	kg/m	0.243
Opseg Perimeter	mm	93
L	mm	6500



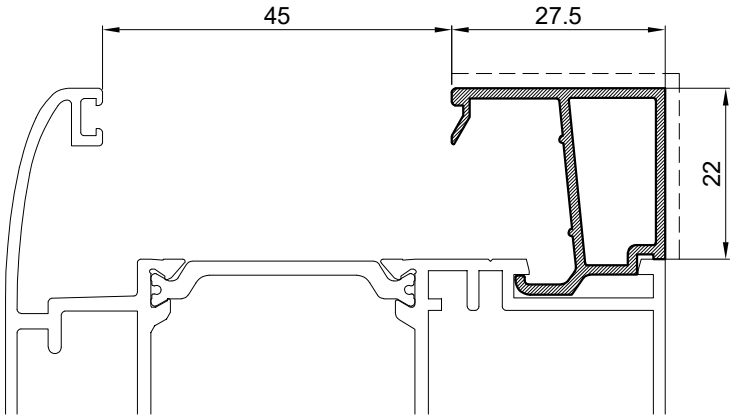
Profil Profile		
Art.Br. Art.Nr.	**Z40-665**	
Težina Weight	kg/m	0.272
Opseg Perimeter	mm	112
L	mm	6500



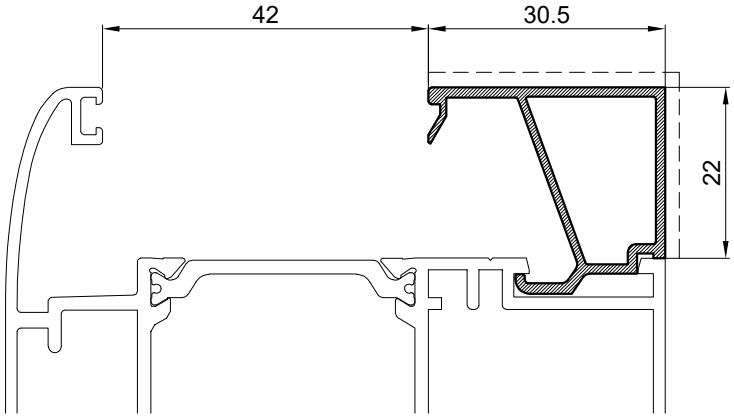
Profil Profile		
Art.Br. Art.Nr.	**Z40-666**	
Težina Weight	kg/m	0.289
Opseg Perimeter	mm	122
L	mm	6500



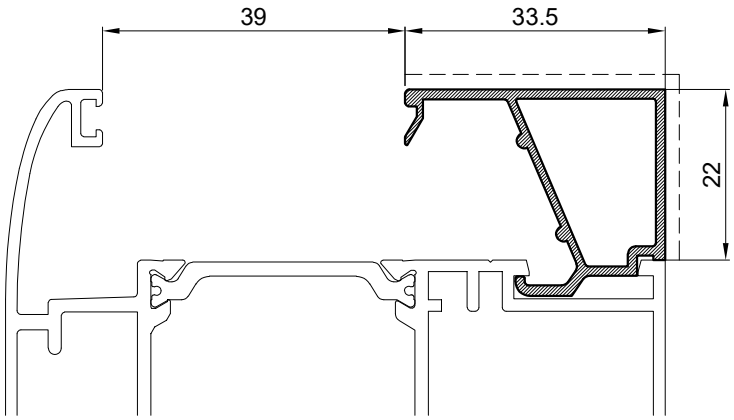
Profil Profile		
Art.Br. Art.Nr.	**Z40-667**	
Težina Weight	kg/m	0.358
Opseg Perimeter	mm	139
L	mm	6500



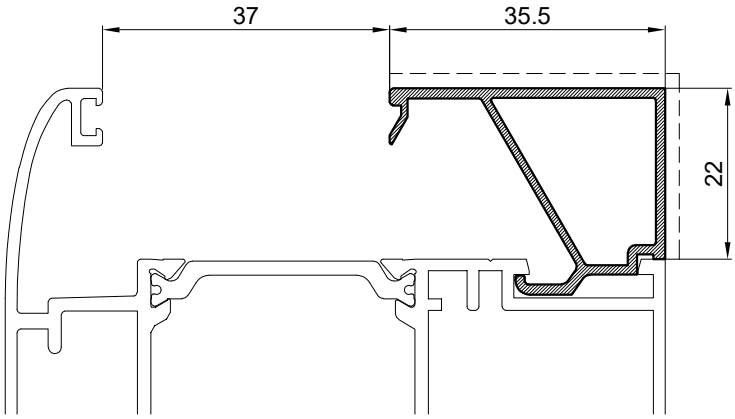
Profil Profile		
Art.Br. Art.Nr.	**F-1575**	
Težina Weight	kg/m	0.327
Opseg Perimeter	mm	133.4
L	mm	6500



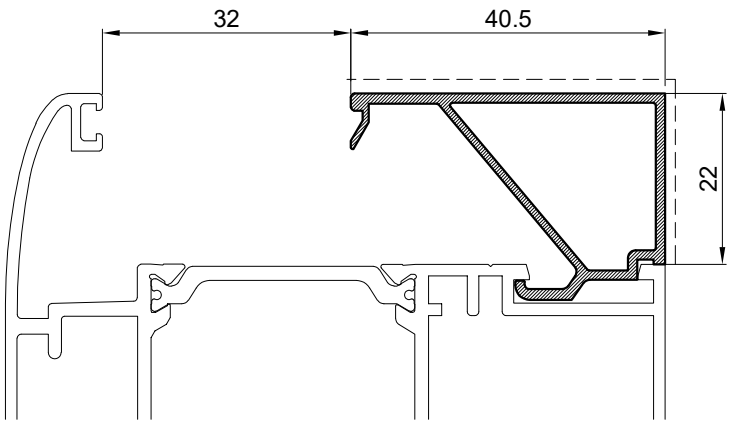
Profil Profile		
Art.Br. Art.Nr.	**Z40-668**	
Težina Weight	kg/m	0.326
Opseg Perimeter	mm	135
L	mm	6500



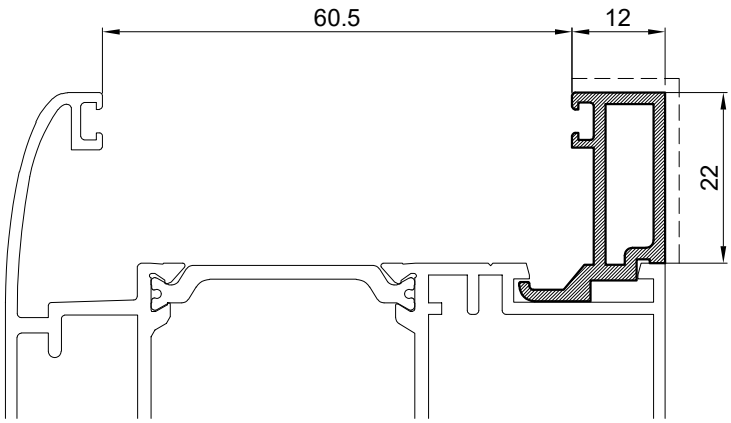
Profil Profile		
Art.Br. Art.Nr.	**F-1590**	
Težina Weight	kg/m	0.346
Opseg Perimeter	mm	142.75
L	mm	6500



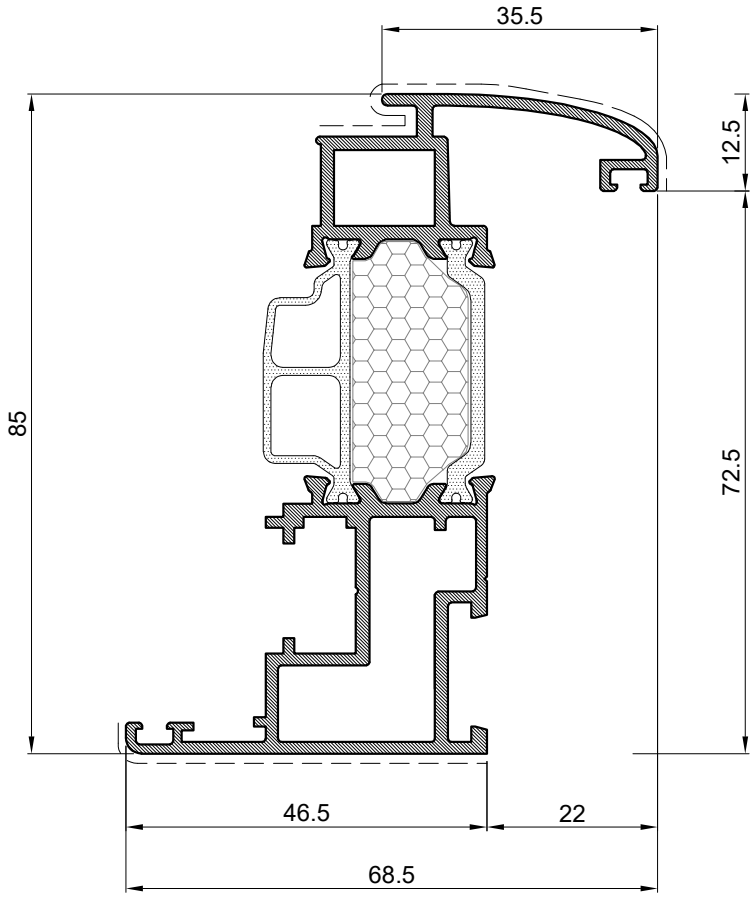
Profil Profile		
Art.Br. Art.Nr.	**Z40-669**	
Težina Weight	kg/m	0.347
Opseg Perimeter	mm	143
L	mm	6500



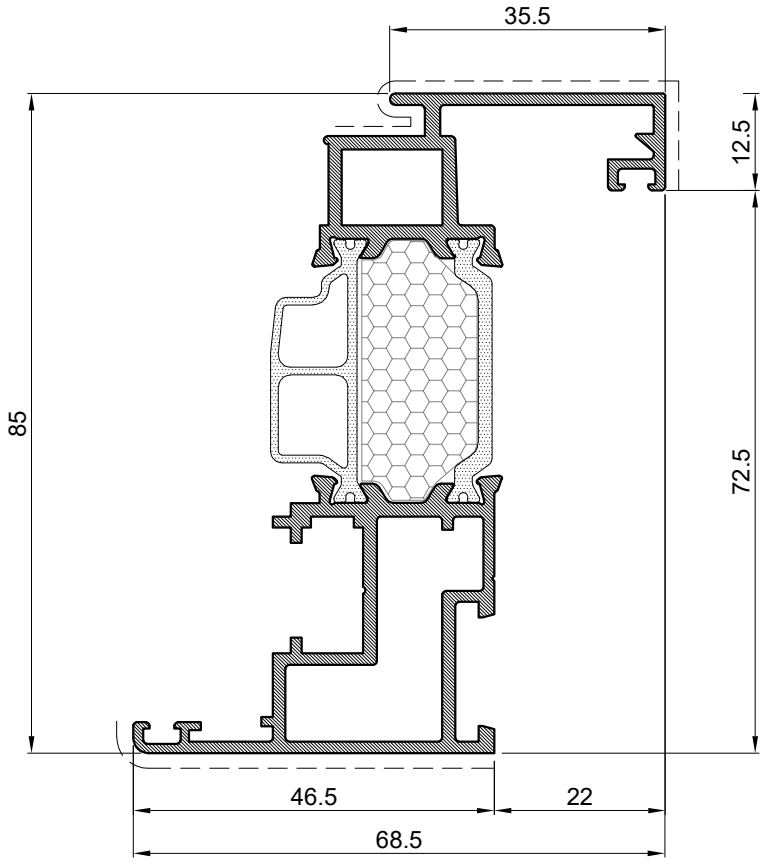
Profil Profile		
Art.Br. Art.Nr.	**Z40-670**	
Težina Weight	kg/m	0.373
Opseg Perimeter	mm	150
L	mm	6500



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

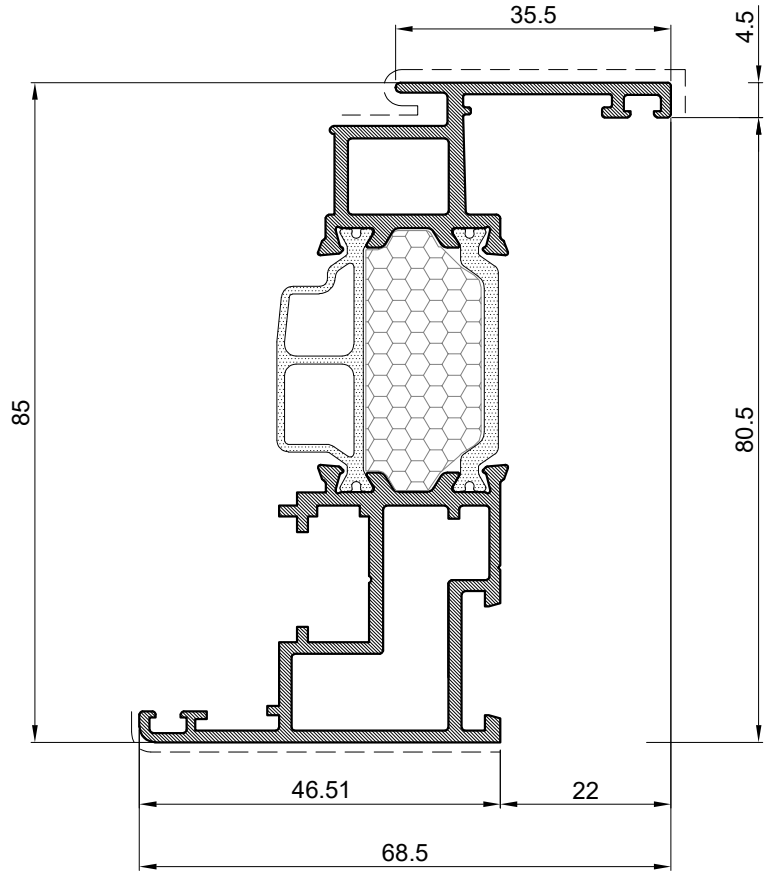


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-0236HF**	
Težina Weight	kg/m	1.597
Opseg Perimeter	mm	448
Moment inercije Moment of inertia	Ix (cm4)	34.93
	Iy (cm4)	9.06
	Wx (cm3)	10.69
	Wy (cm3)	2.59
L	mm	6500

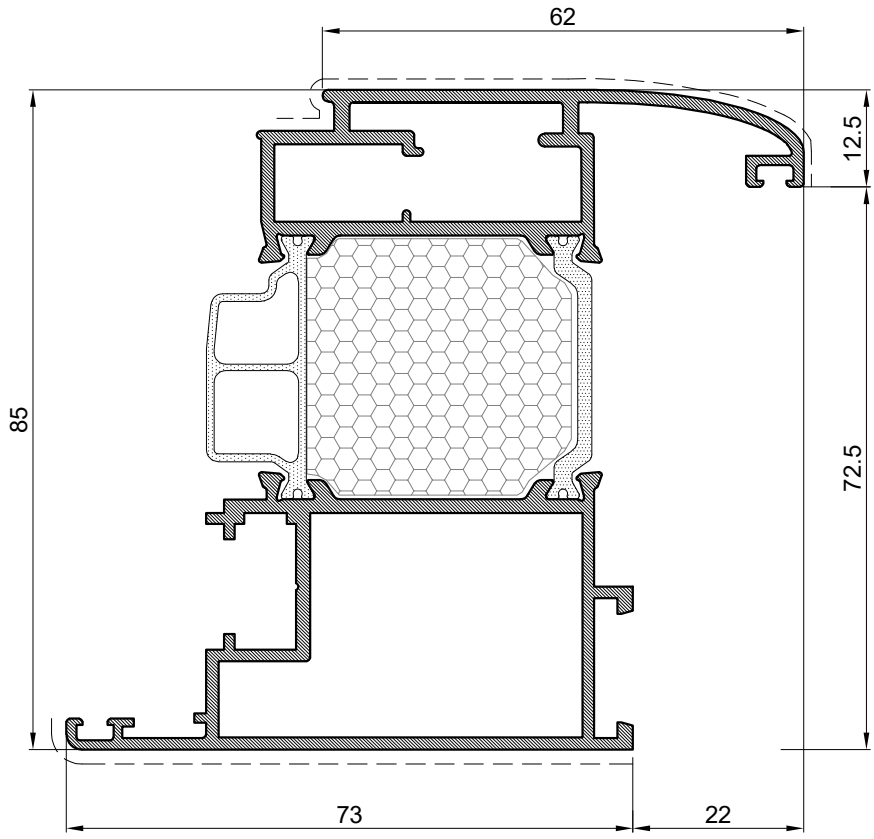


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-0239HF**	
Težina Weight	kg/m	1.623
Opseg Perimeter	mm	461
Moment inercije Moment of inertia	Ix (cm4)	36.48
	Iy (cm4)	10.24
	Wx (cm3)	11.41
	Wy (cm3)	2.87
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

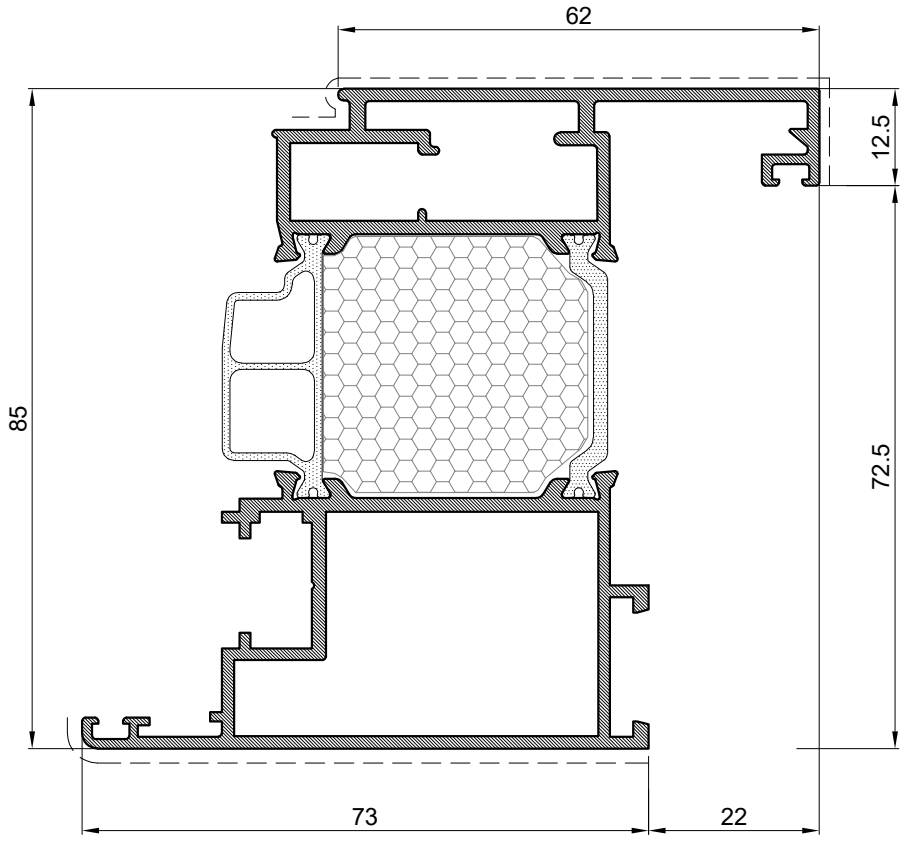


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-0296HF**	
Težina Weight	kg/m	1.576
Opseg Perimeter	mm	441
Moment inercije Moment of inertia	Ix (cm4)	35.05
	Iy (cm4)	8.26
	Wx (cm3)	10.65
	Wy (cm3)	2.39
L	mm	6500

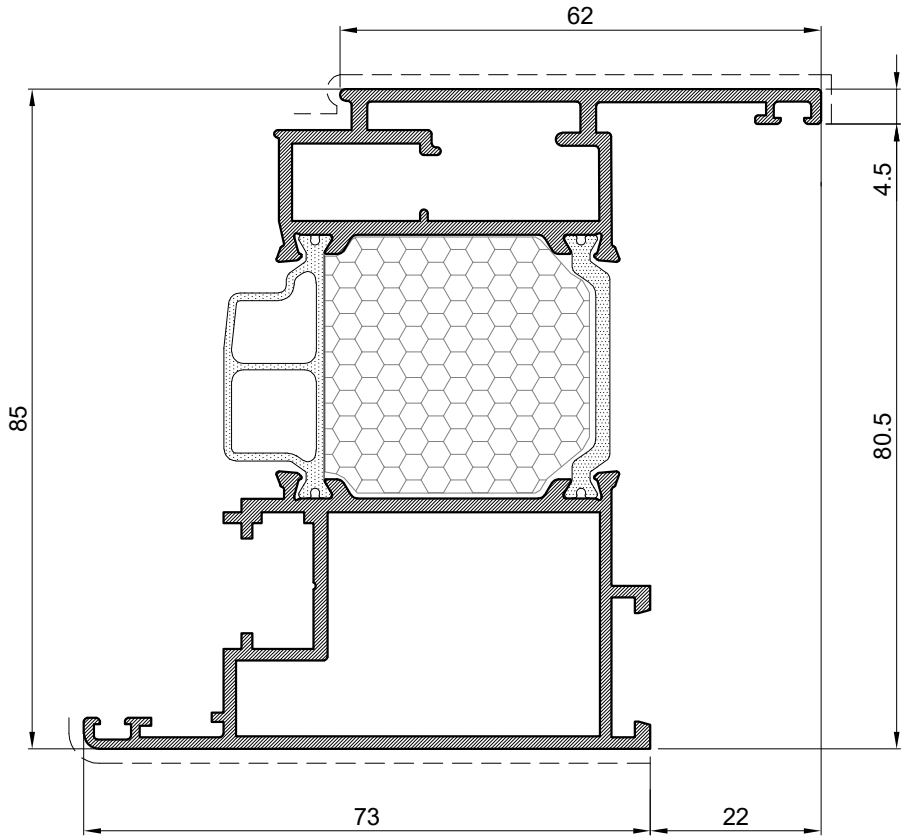


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-0244HF**	
Težina Weight	kg/m	2.096
Opseg Perimeter	mm	495
Moment inercije Moment of inertia	Ix (cm4)	50.84
	Iy (cm4)	31.4
	Wx (cm3)	15.89
	Wy (cm3)	6.56
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

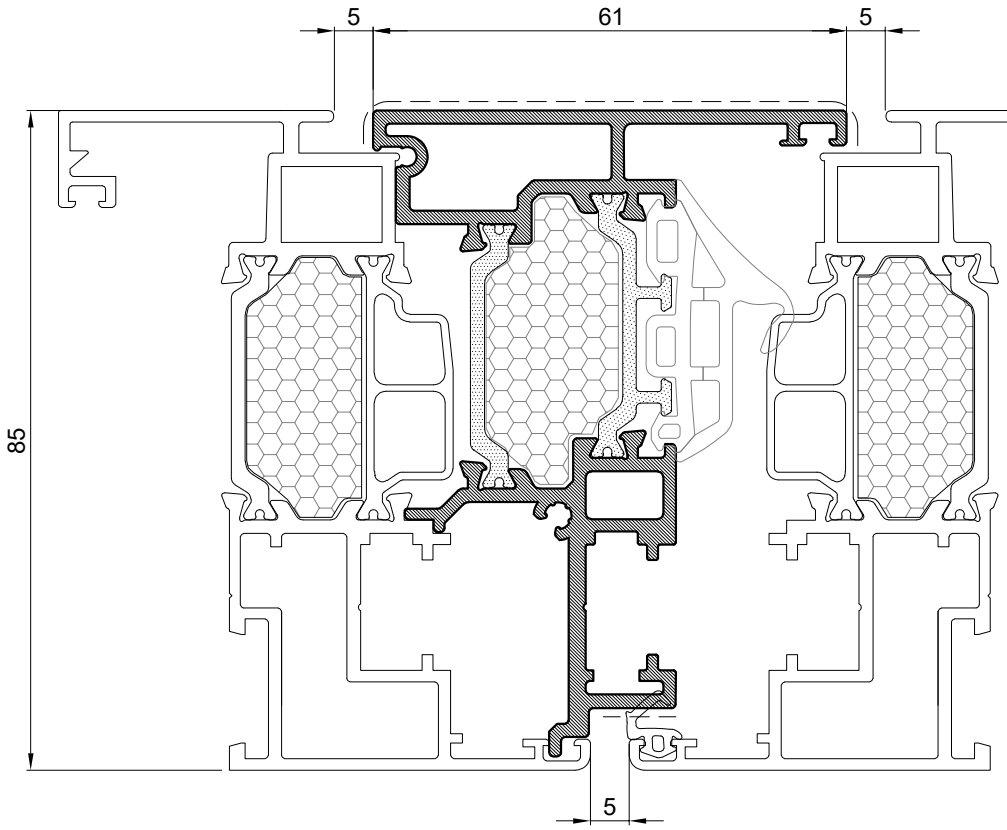


Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-0246HF**	
Težina Weight	kg/m	2.126
Opseg Perimeter	mm	508
Moment inercije Moment of inertia	Ix (cm4)	52.29
	Iy (cm4)	33.81
	Wx (cm3)	16.1
	Wy (cm3)	7.06
L	mm	6500



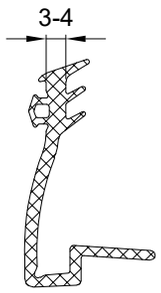
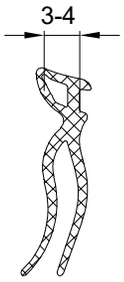
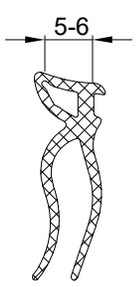
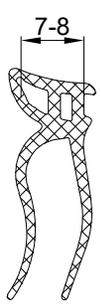
Profil krila prozora Profile window sash		
Art.Br. Art.Nr.	**FT-1610HF**	
Težina Weight	kg/m	2.019
Opseg Perimeter	mm	470
Moment inercije Moment of inertia	Ix (cm4)	51.06
	Iy (cm4)	29.46
	Wx (cm3)	16.1
	Wy (cm3)	6.08
L	mm	6500

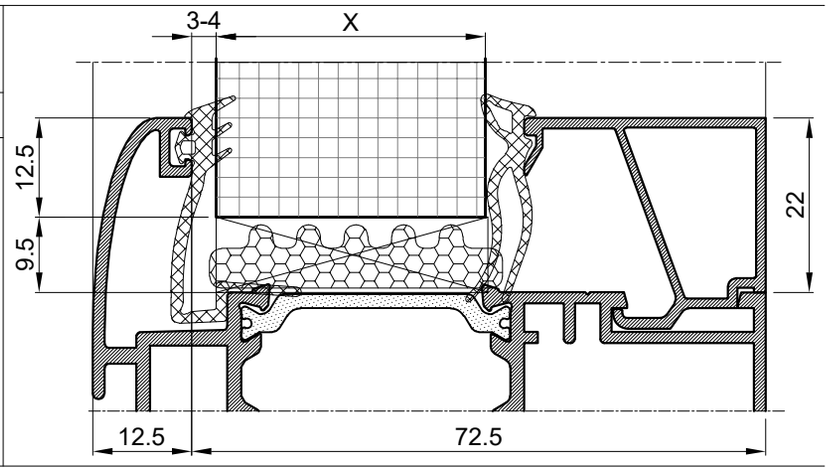
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVAK ,,F"
PROFILE WITHOUT XPS DO NOT HAVE ENDING ,,F"

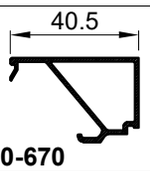
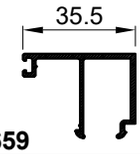
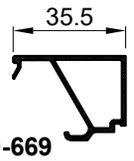
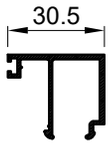
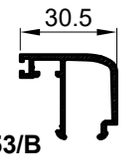
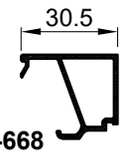
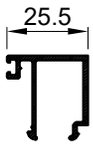
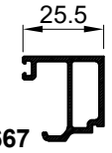
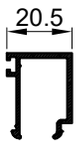
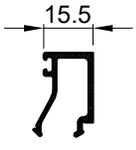
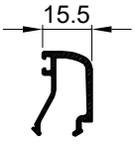
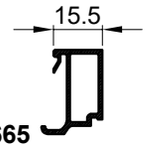
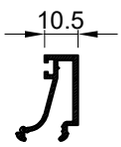
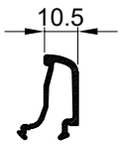
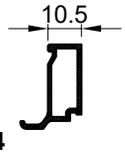
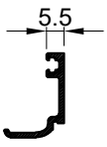


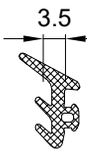
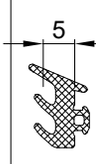
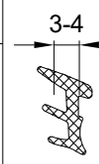
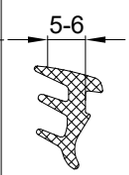
Profil kombatute Flying mullion		
Art.Br. Art.Nr.	**FT-2245HF**	
Težina Weight	kg/m	1.563
Opseg Perimeter	mm	473
Moment inercije Moment of inertia	Ix (cm4)	28.09
	Iy (cm4)	8.51
	Wx (cm3)	7.55
	Wy (cm3)	2.45
L	mm	6500

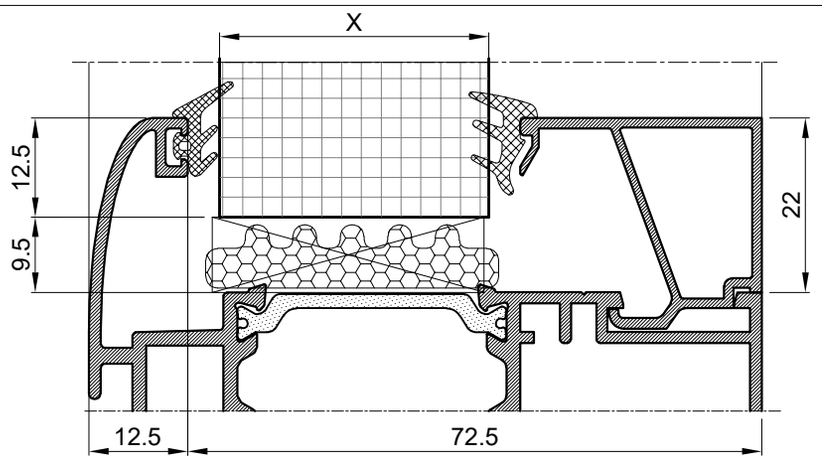
Prikaz stakljenja
Glazing

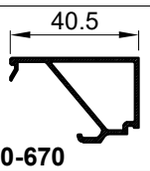
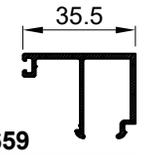
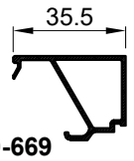
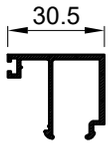
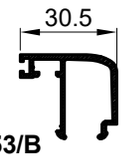
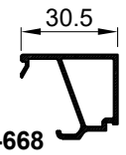
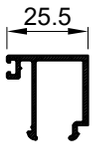
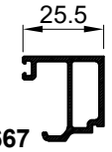
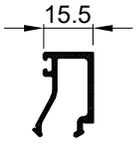
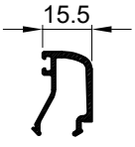
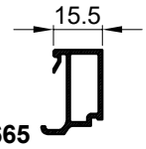
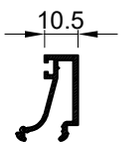
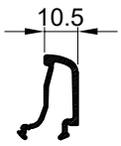
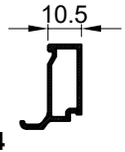
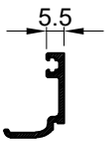
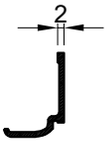
Vanjska brtva Outside gasket	Unutarnje brtve Inside gaskets		
328.004	311.003	311.004	311.005
			

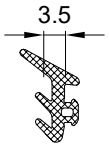
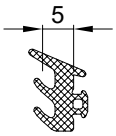
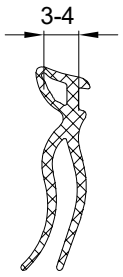
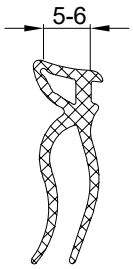


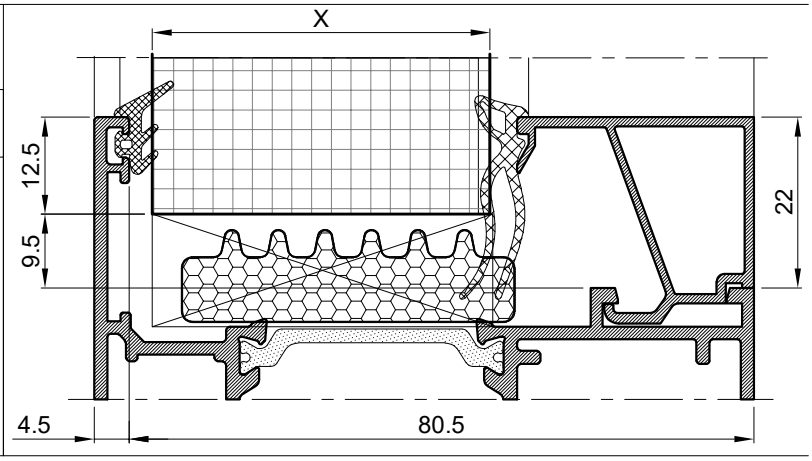
Ispuna X Fillings X	Vanjska brtva Outside gas.	Unutar. brtva Inside gasket	LAJSNE ZA STAKLO BEAD FOR GLASS		
21	328.004	311.005			 **Z40-670**
22-23	328.004	311.004			
24-25	328.004	311.003			
26	328.004	311.005	 **Z40-659**		 **Z40-669**
27-28	328.004	311.004			
29-30	328.004	311.003			
31	328.004	311.005	 **Z40-653**	 **Z40-653/B**	 **Z40-668**
32-33	328.004	311.004			
34-35	328.004	311.003			
36	328.004	311.005	 **Z40-658**		 **Z40-667**
37-38	328.004	311.004			
39-40	328.004	311.003			
41	328.004	311.005	 **Z40-644**	 **Z40-646**	 **Z40-666**
42-43	328.004	311.004			
44-45	328.004	311.003			
46	328.004	311.005	 **M45-709**	 **M45-740**	 **Z40-665**
47-48	328.004	311.004			
49-50	328.004	311.003			
51	328.004	311.005	 **Z40-636**	 **Z40-647**	 **Z40-664**
52-53	328.004	311.004			
54-55	328.004	311.003			
56	328.004	311.005	 **Z40-656**		
57-58	328.004	311.004			
59-60	328.004	311.003			
61-62	328.004	311.004	 **Z40-660**		
63	328.004	311.003			

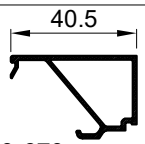
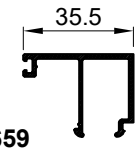
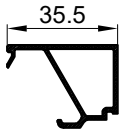
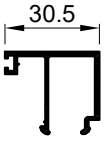
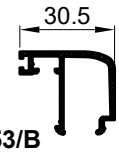
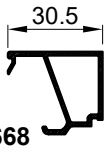
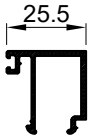
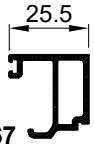
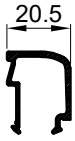
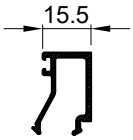
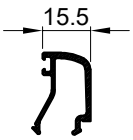
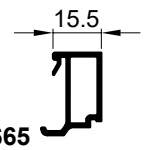
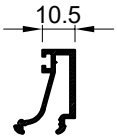
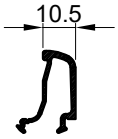
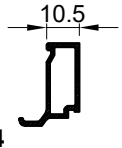
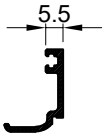
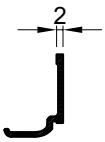
Vanjske brtve Outside gaskets			Unutarnja brtva Inside gasket
328.002	328.003	318.015	318.016
			



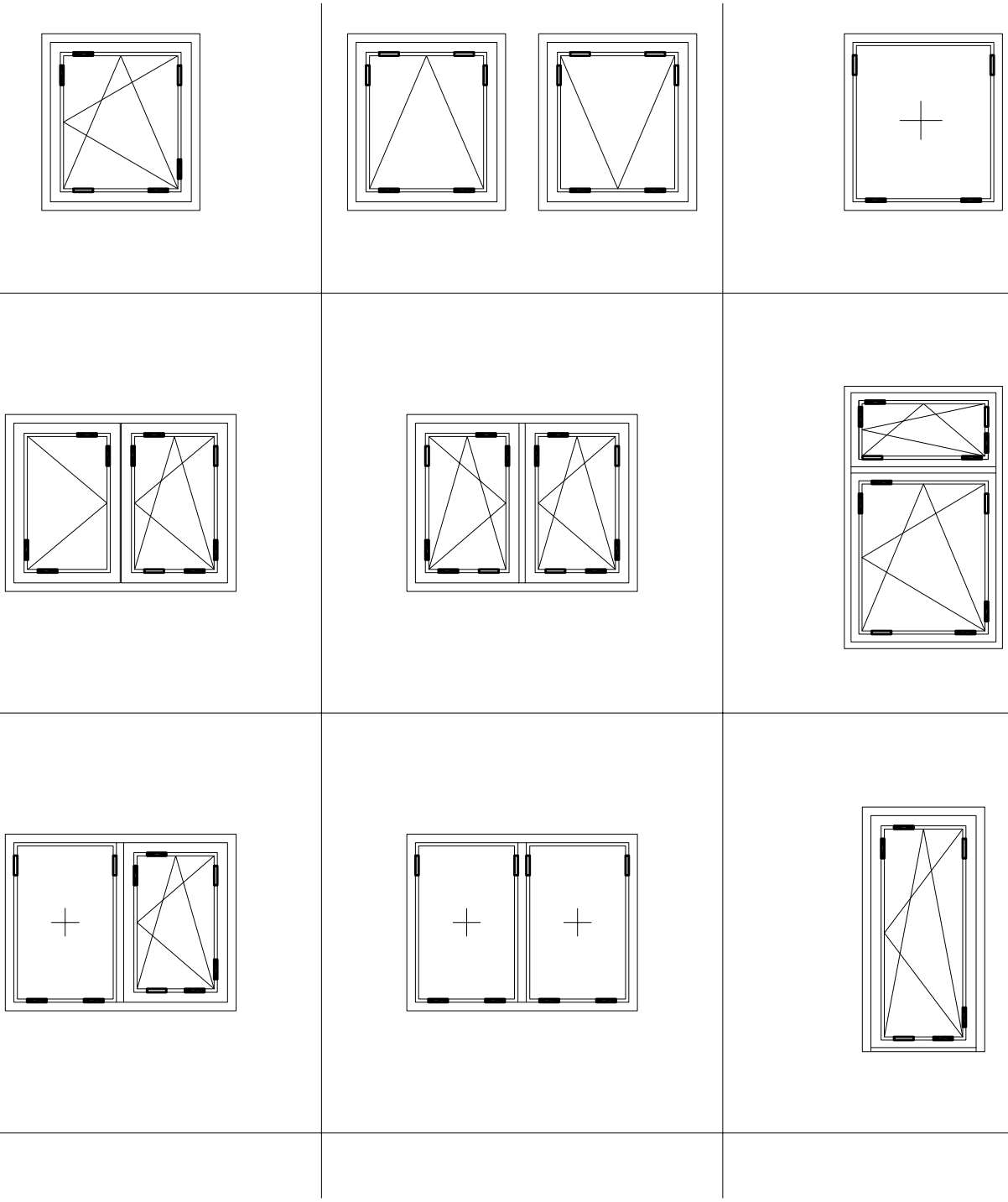
Ispuna X	Vanjska brtva	Unutarnja brtva	LAJSNE ZA STAKLO BEAD FOR GLASS		
21-22	328.003	318.016			 **Z40-670**
23-24	328.003	318.015			
25	328.002	318.002			
26-27	328.003	318.016	 **Z40-659**		 **Z40-669**
28-29	328.003	318.015			
30	328.002	318.002			
31-32	328.003	318.016	 **Z40-653**	 **Z40-653/B**	 **Z40-668**
33-34	328.003	318.015			
35	328.002	318.002			
36-37	328.003	318.016	 **Z40-658**		 **Z40-667**
38-39	328.003	318.015			
40	328.002	318.002			
41-42	328.003	318.016	 **Z40-644**	 **Z40-646**	 **Z40-666**
43-44	328.003	318.015			
45	328.002	318.002			
46-47	328.003	318.016	 **M45-709**	 **M45-740**	 **Z40-665**
48-49	328.003	318.015			
50	328.002	318.002			
51-52	328.003	318.016	 **Z40-636**	 **Z40-647**	 **Z40-664**
53-54	328.003	318.015			
55	328.002	318.002			
56-57	328.003	318.016	 **Z40-656**		
58-59	328.003	318.015			
60	328.002	318.002			
61-62	328.003	318.015	 **Z40-660**		
63-64	328.002	318.015			

Vanjske brtve Outside gaskets		Unutarnje brtve Inside gaskets	
328.002	328.003	311.003	311.004
			



Ispuna X Fillings X	Vanjska brtva Outside gas.	Unutar. brtva Inside gasket	LAJSNE ZA STAKLO BEAD FOR GLASS		
29-30	328.003	311.004			 **Z40-670**
31-32	328.003	311.003			
33	328.002	311.003			
34-35	328.003	311.004	 **Z40-659**		 **Z40-669**
36-37	328.003	311.003			
38	328.002	311.003			
39-40	328.003	311.004	 **Z40-653**	 **Z40-653/B**	 **Z40-668**
41-42	328.003	311.003			
43	328.002	311.003			
44-45	328.003	311.004	 **Z40-658**		 **Z40-667**
46-47	328.003	311.003			
48	328.002	311.003			
49-50	328.003	311.004	 **Z40-644**	 **Z40-646**	 **Z40-666**
51-52	328.003	311.003			
53	328.002	311.003			
54-55	328.003	311.004	 **M45-709**	 **M45-740**	 **Z40-665**
56-57	328.003	311.003			
58	328.002	311.003			
59-60	328.003	311.004	 **Z40-636**	 **Z40-647**	 **Z40-664**
61-62	328.003	311.003			
63	328.002	311.003			
34-35	328.003	311.004	 **Z40-656**		
66-67	328.003	311.003			
68	328.002	311.003			
69-70	321.003	311.003	 **Z40-660**		
71-72	328.002	311.003			

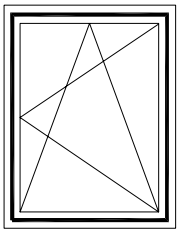
PREPORUKE ZA RASPORED PODMETAČA KOD UGRADNJE ELEMENATA ZA ISPUNU
RECOMMENDATION FOR PACKERS PLACEMENT BY INSTALLATION OF FILLINGS



nosivi podmetač
support packer

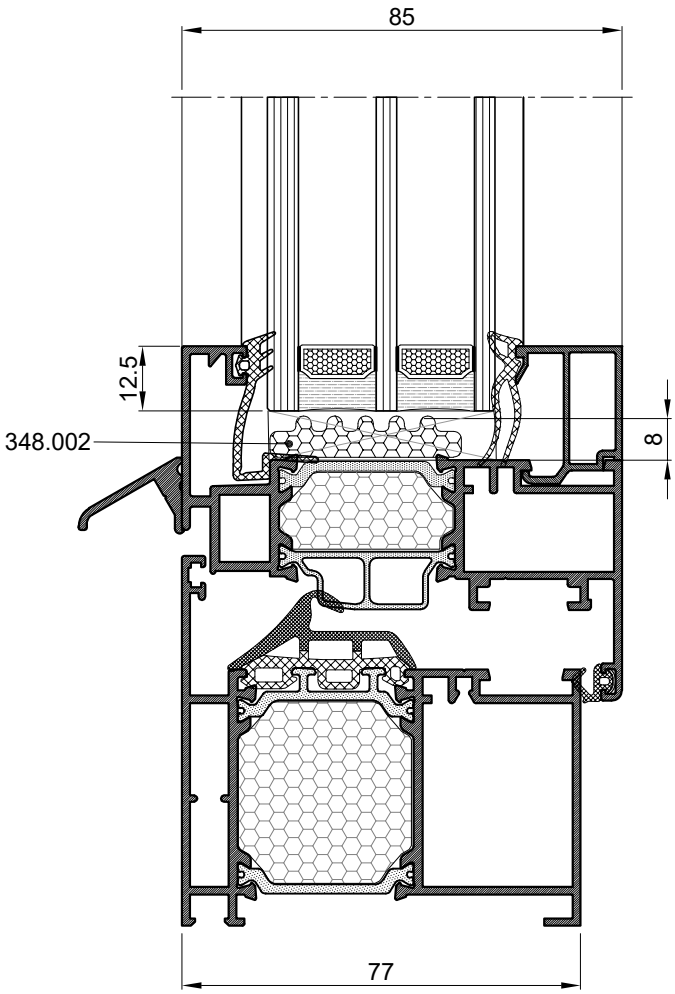
odstojni podmetač
distance packer

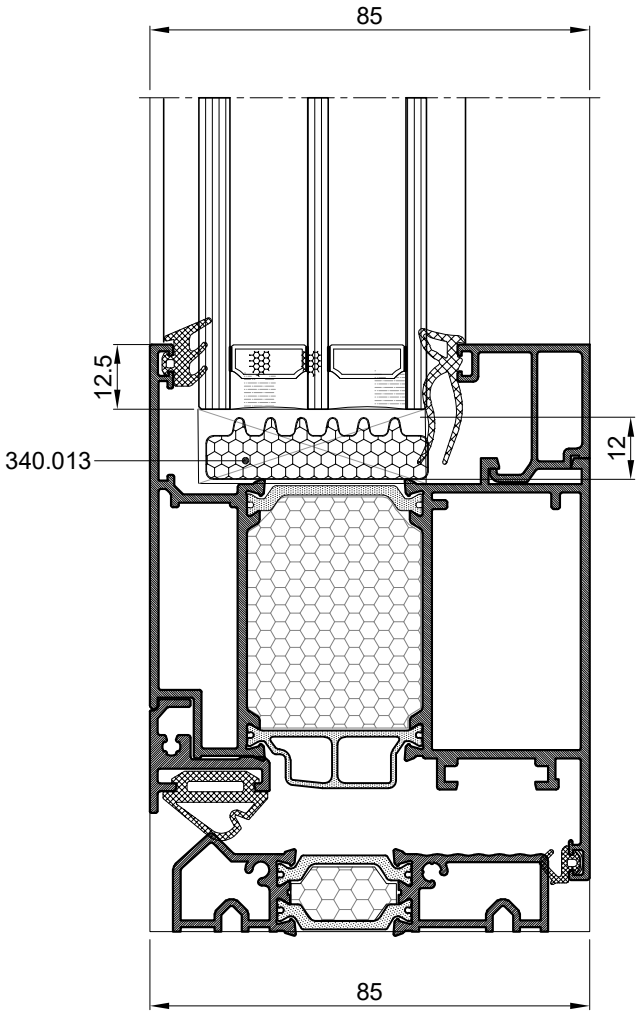
Materijal podmetača: PVC
Material packers: PVC



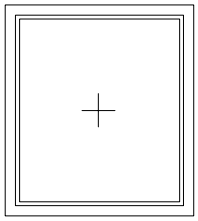
ISPUNA OKO STAKLA
-Radi povećanja toplinskih svojstava, u prostor oko stakla se umeću profilirane trake, debljine 8 mm i 12 mm, od termoizolacionog materijala XPE - ʎ=0.038 W/m2K

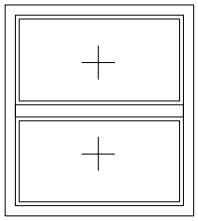
FILLS AROUND GLASS
-To increase thermal properties, profiled strips are inserted into the area around the glass, thickness 8 mm and 12 mm, made of thermal insulation material XPE - ʎ = 0.038 W / m2K

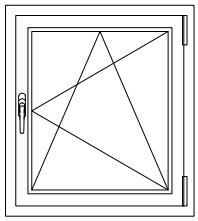


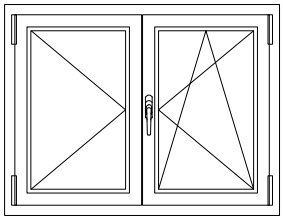


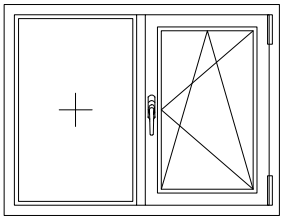
Presjeci
Cross section

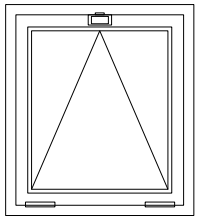


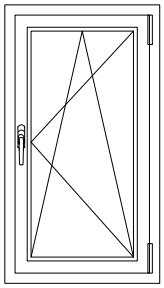


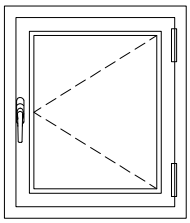


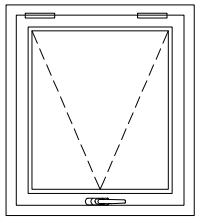


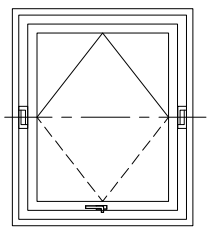


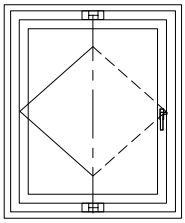


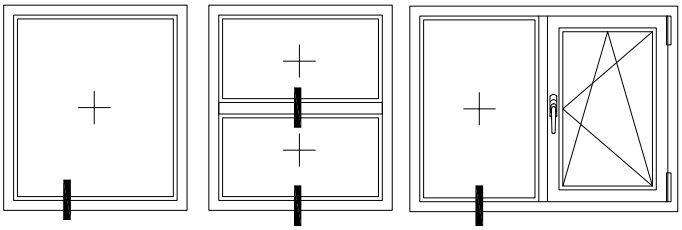


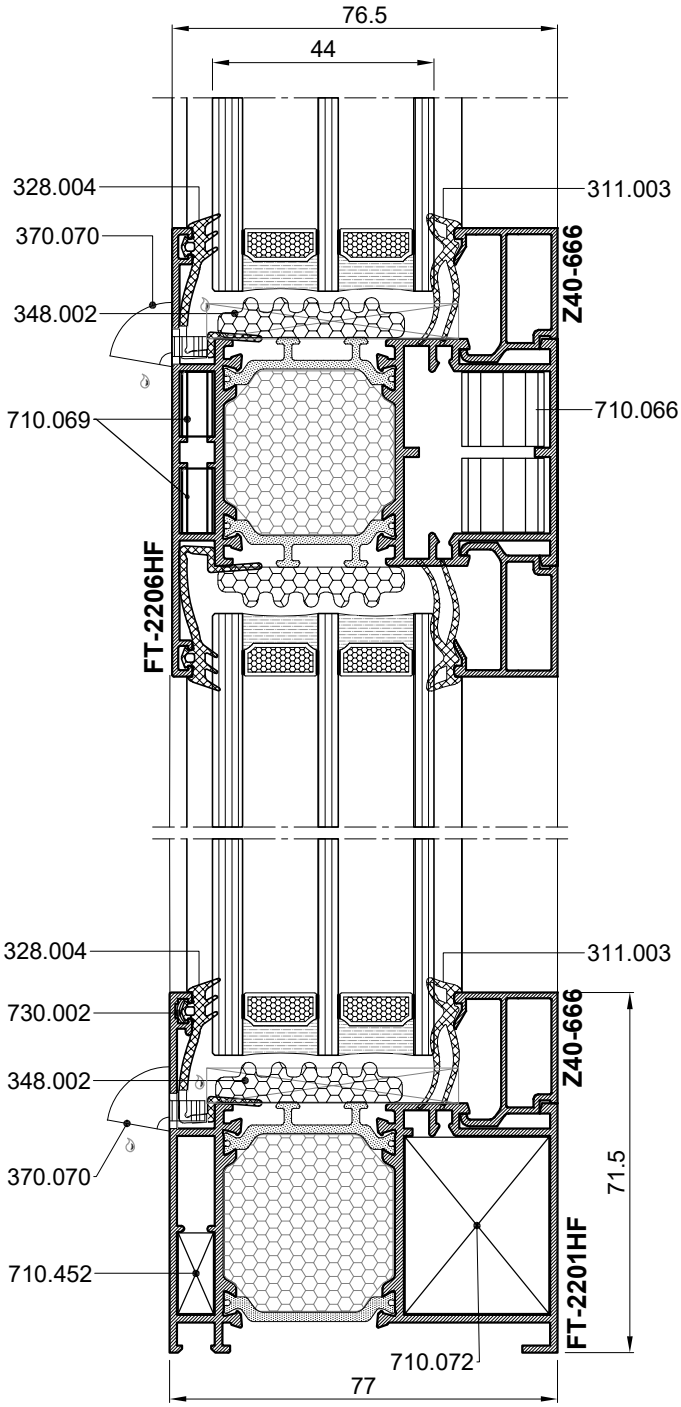


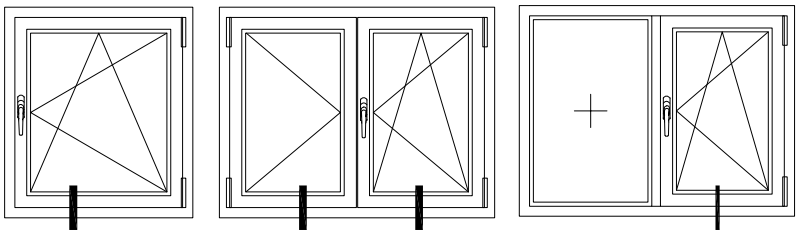


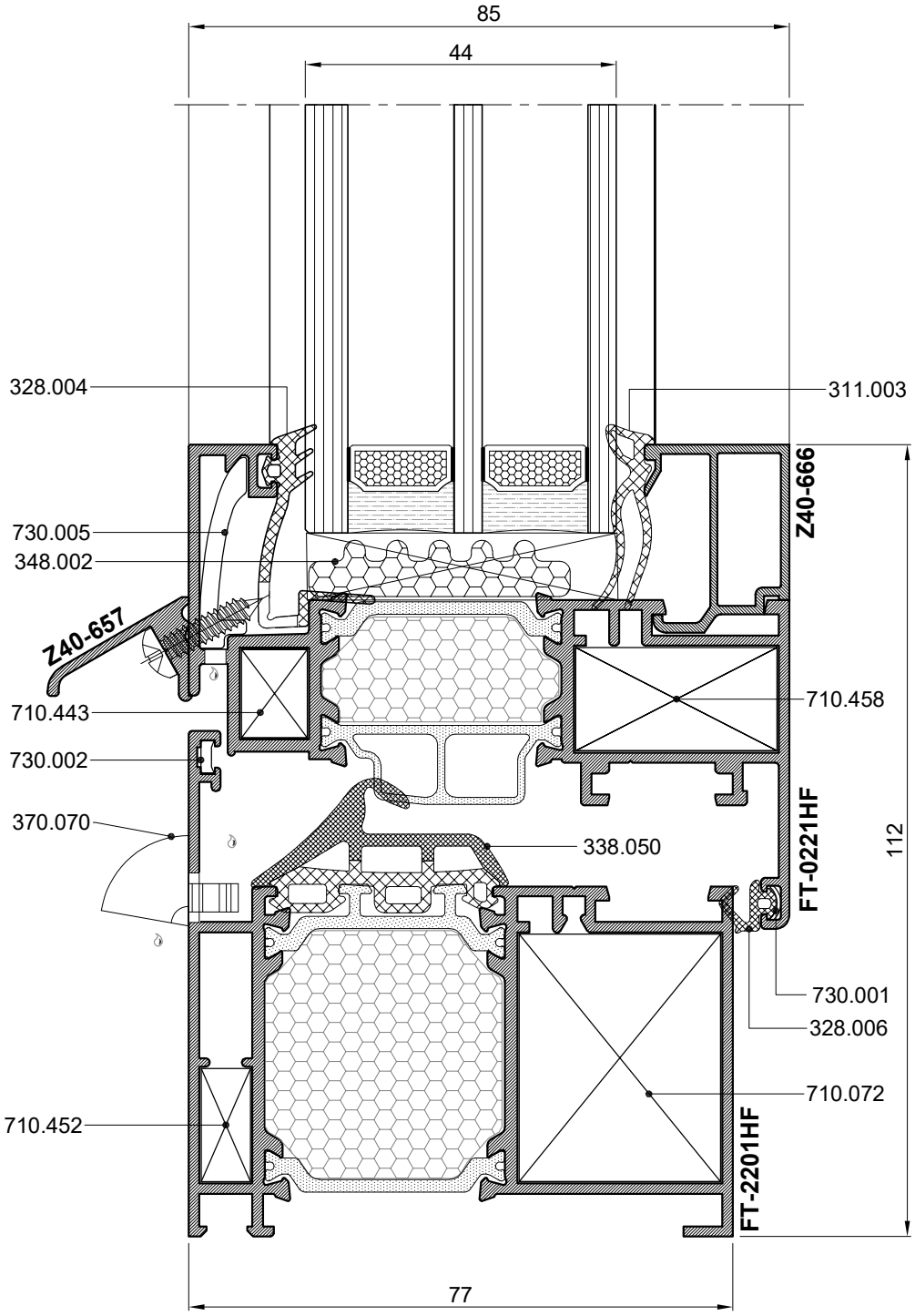


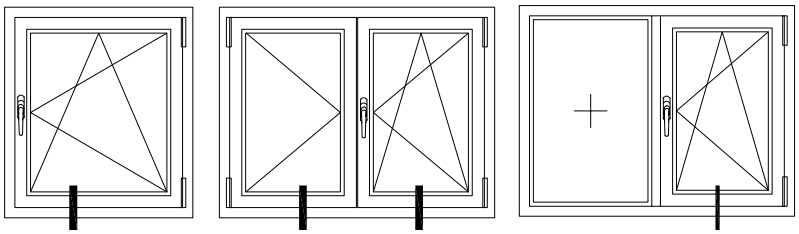


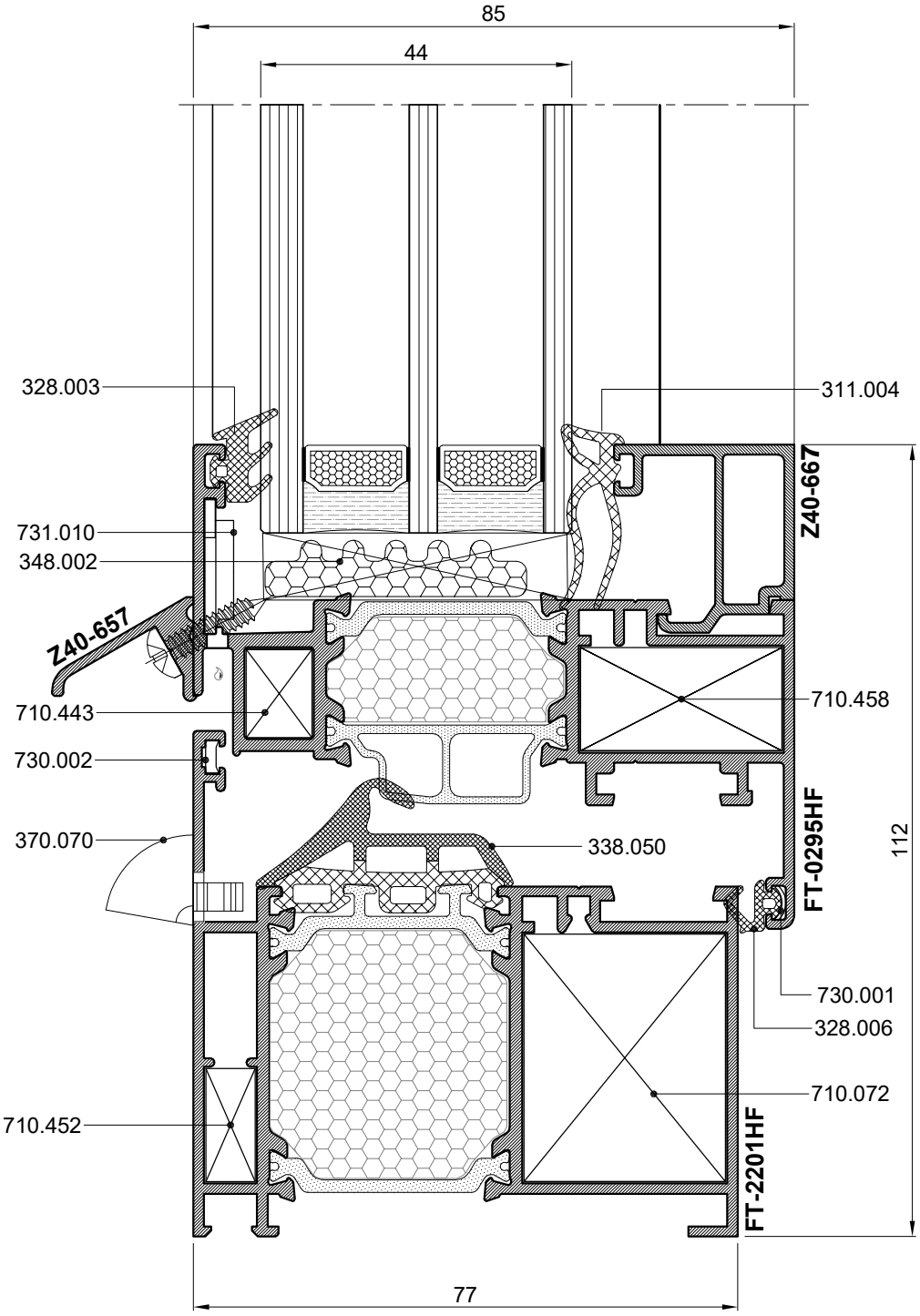


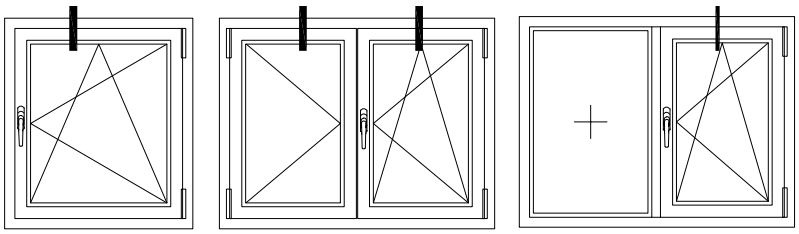

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FT-2206HF
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730.002
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77

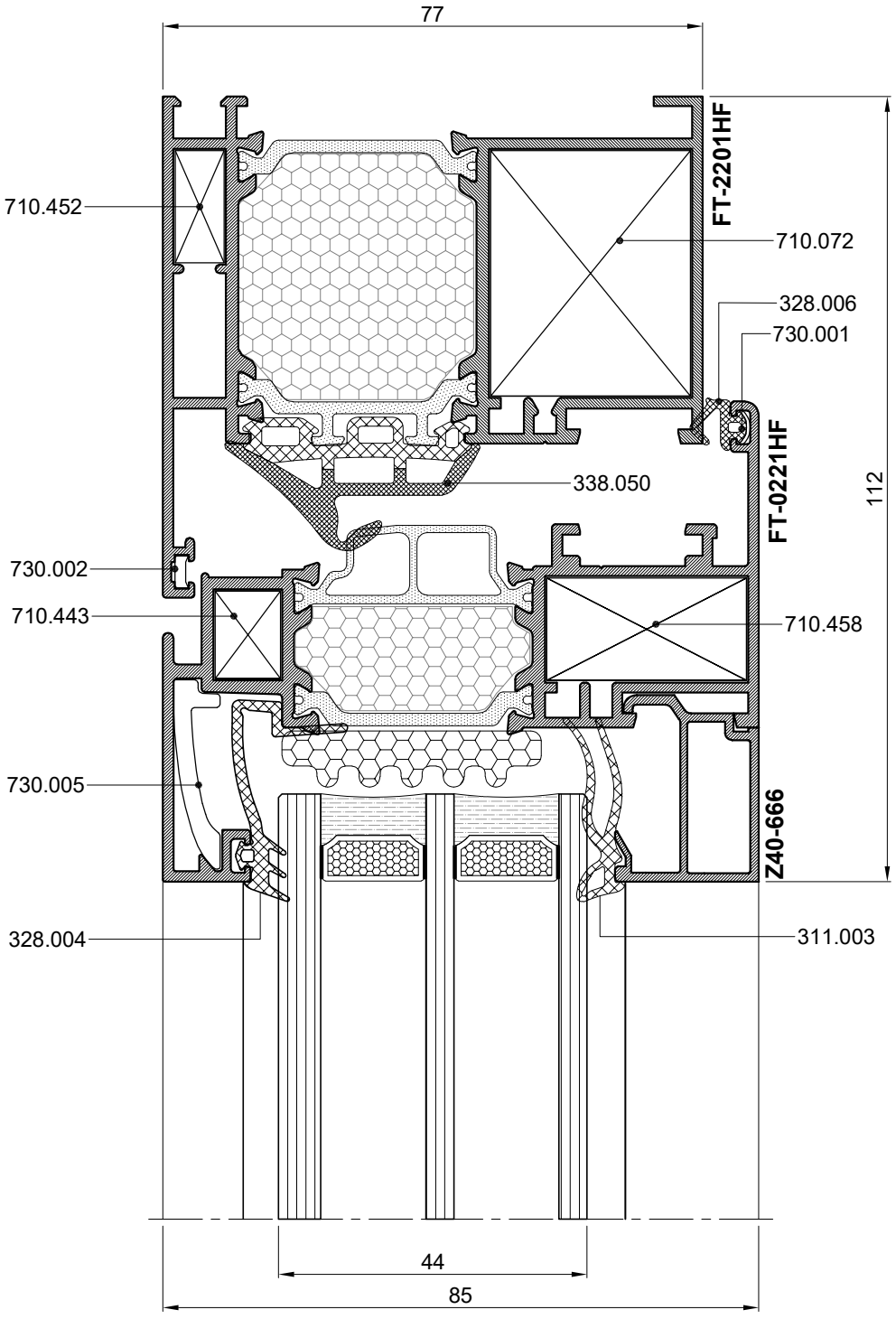


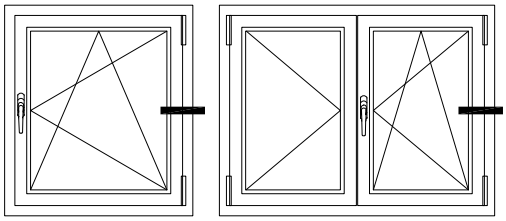

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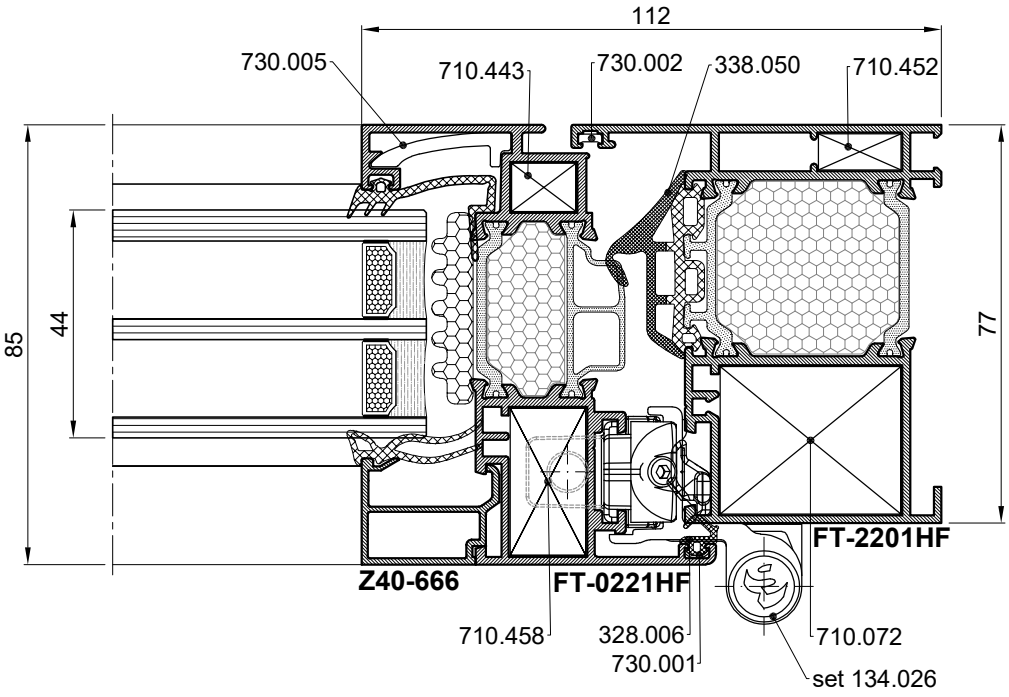



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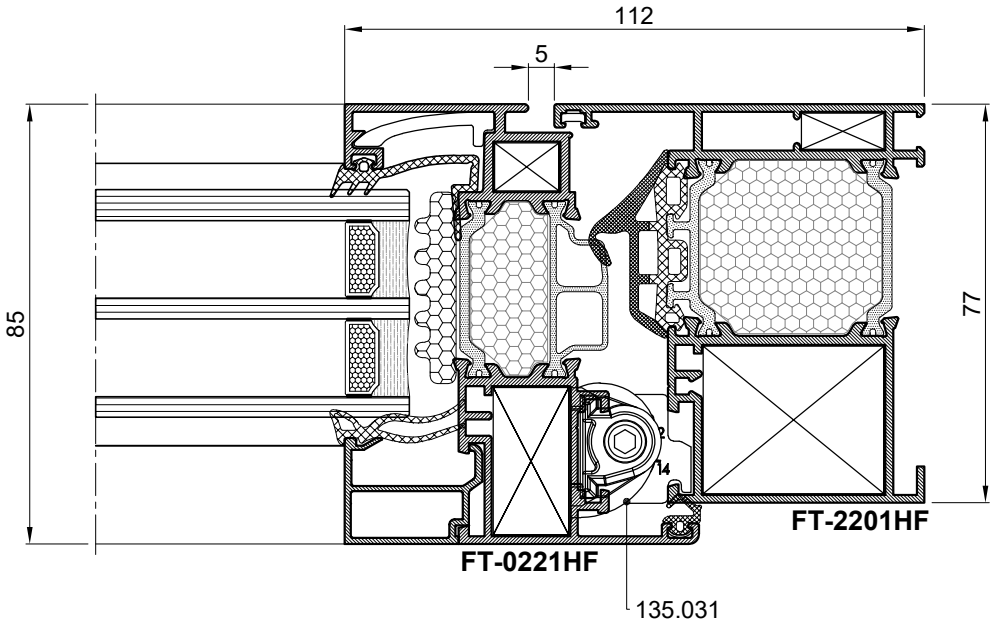


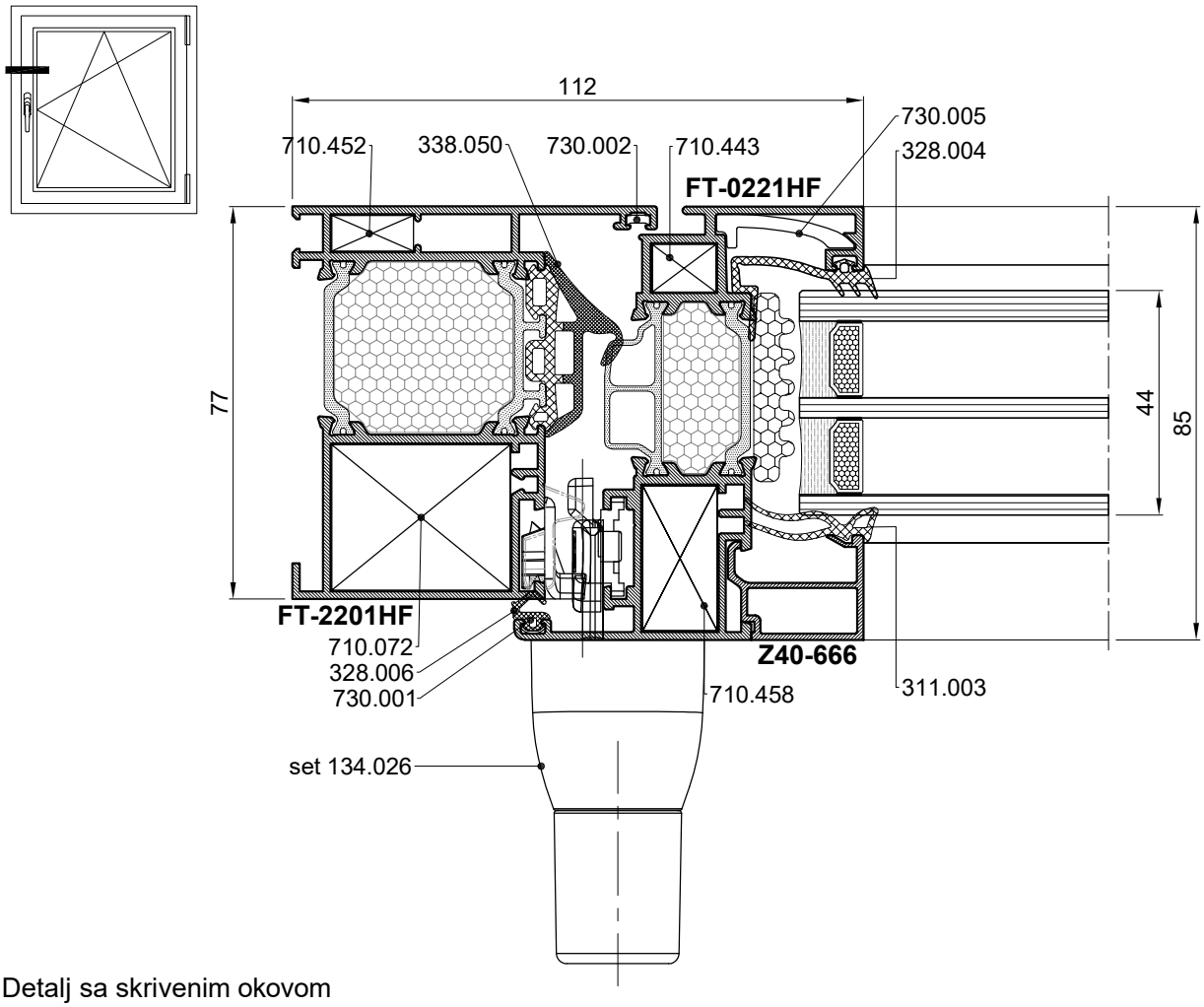

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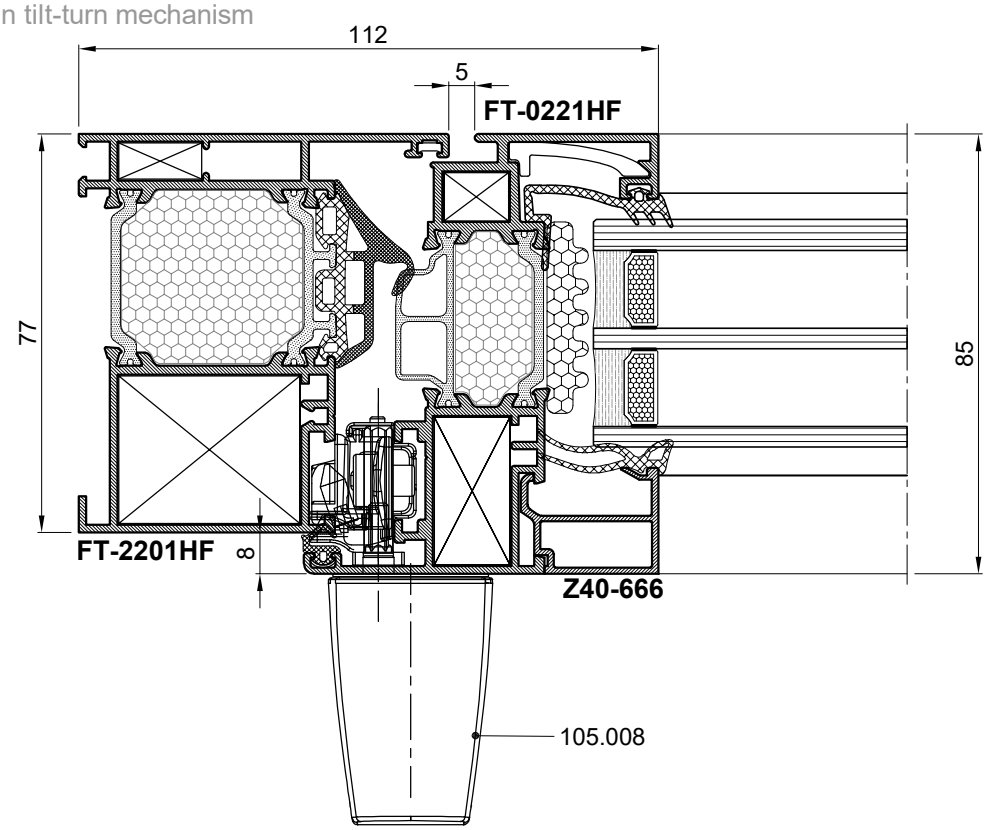


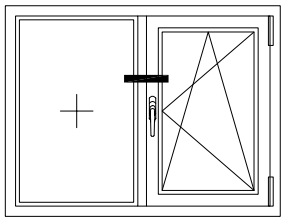
Detalj sa skrivenim okovom
Details with concealed tilt-turn mechanism

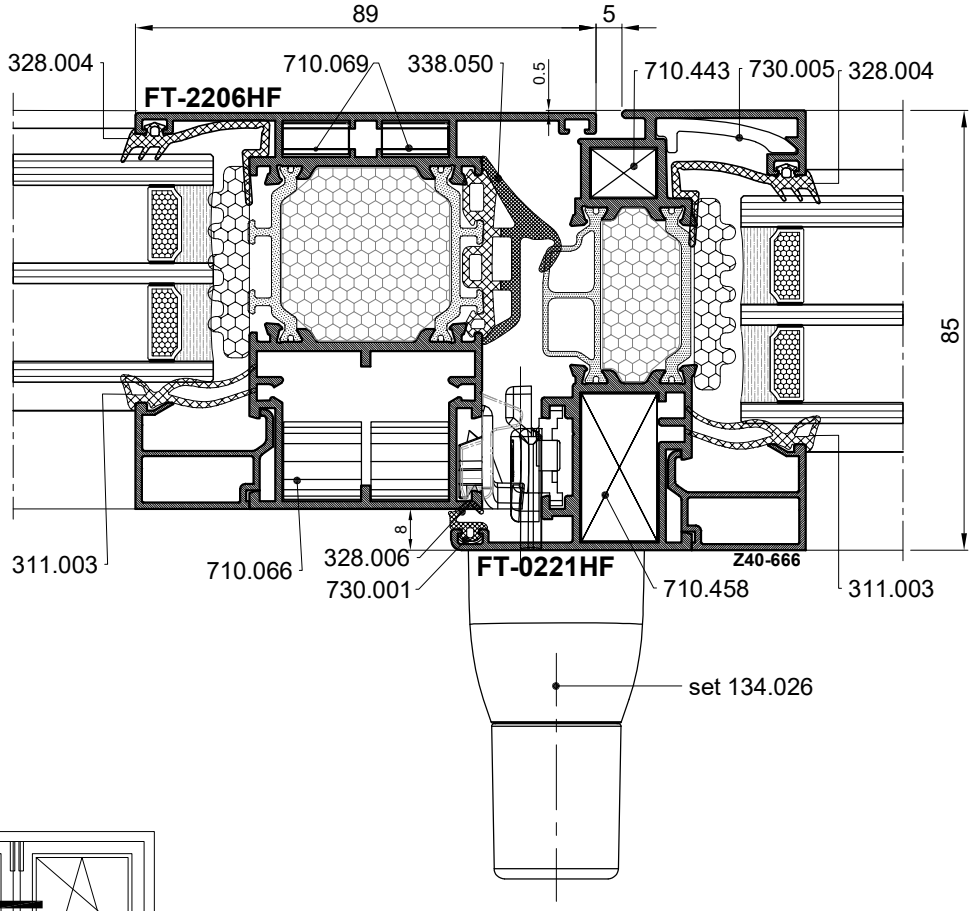


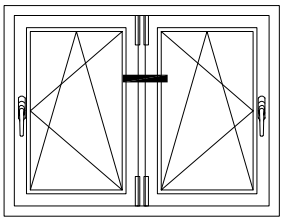


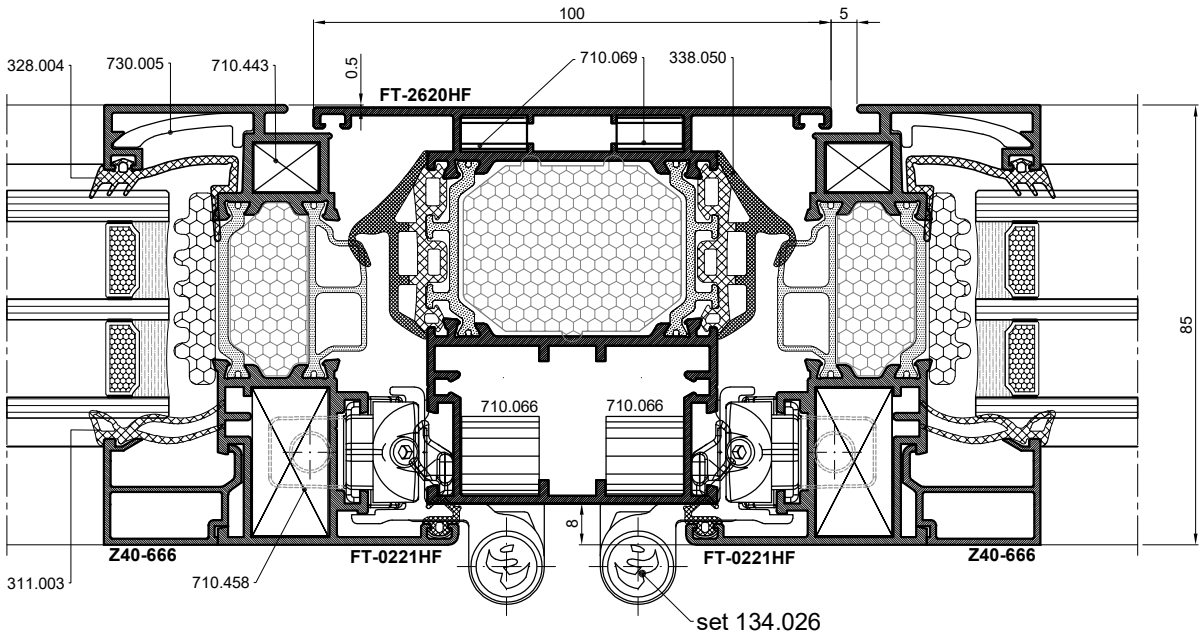
Detalj sa skrivenim okovom
Details with hidden tilt-turn mechanism

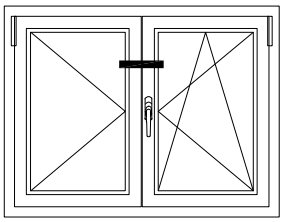


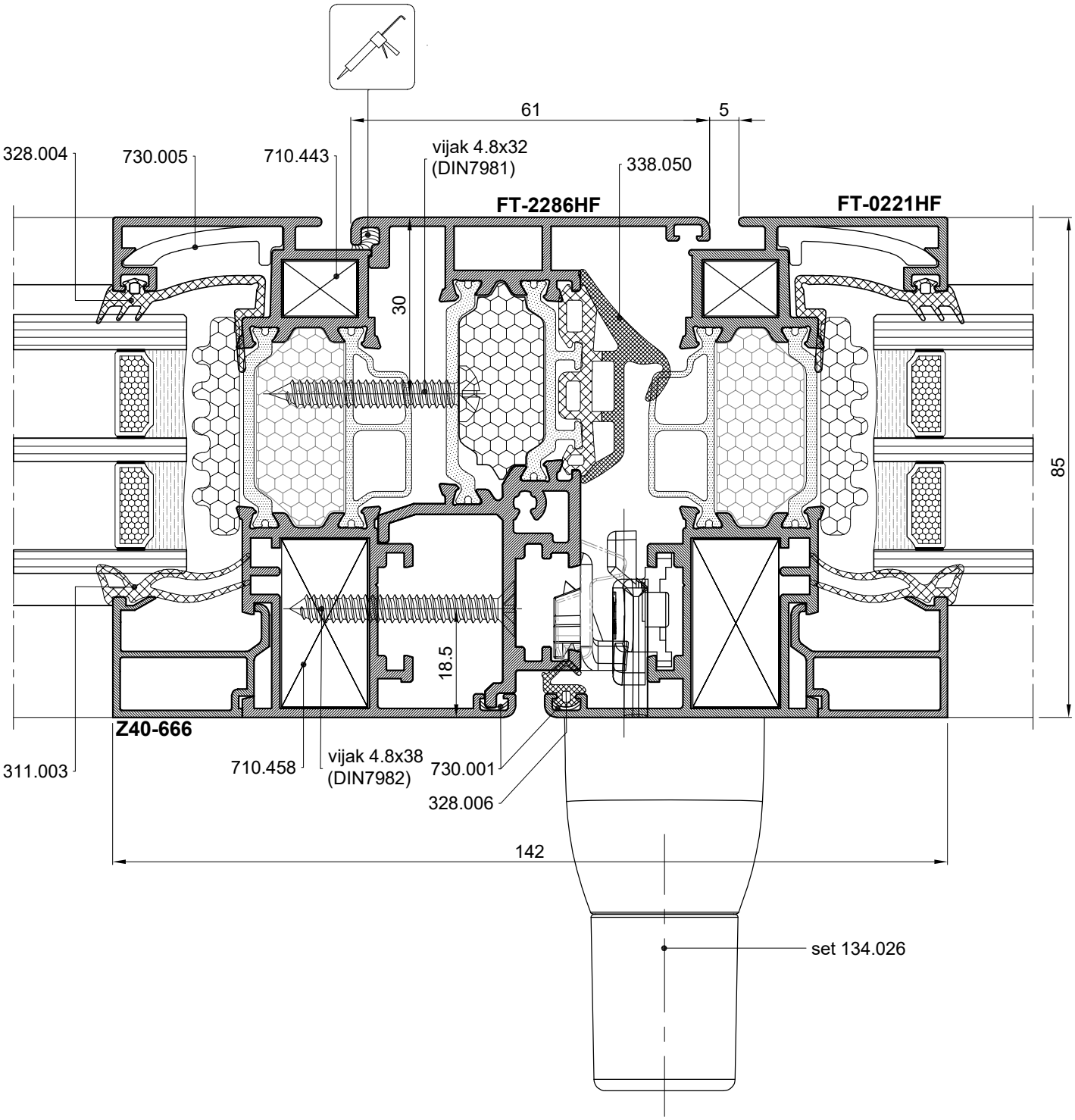



89
5
328.004
710.069
338.050
0.5
710.443
730.005
328.004
FT-2206HF
85
8
311.003
710.066
328.006
730.001
FT-0221HF
Z40-666
710.458
311.003
set 134.026

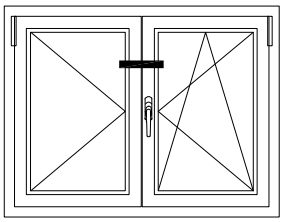


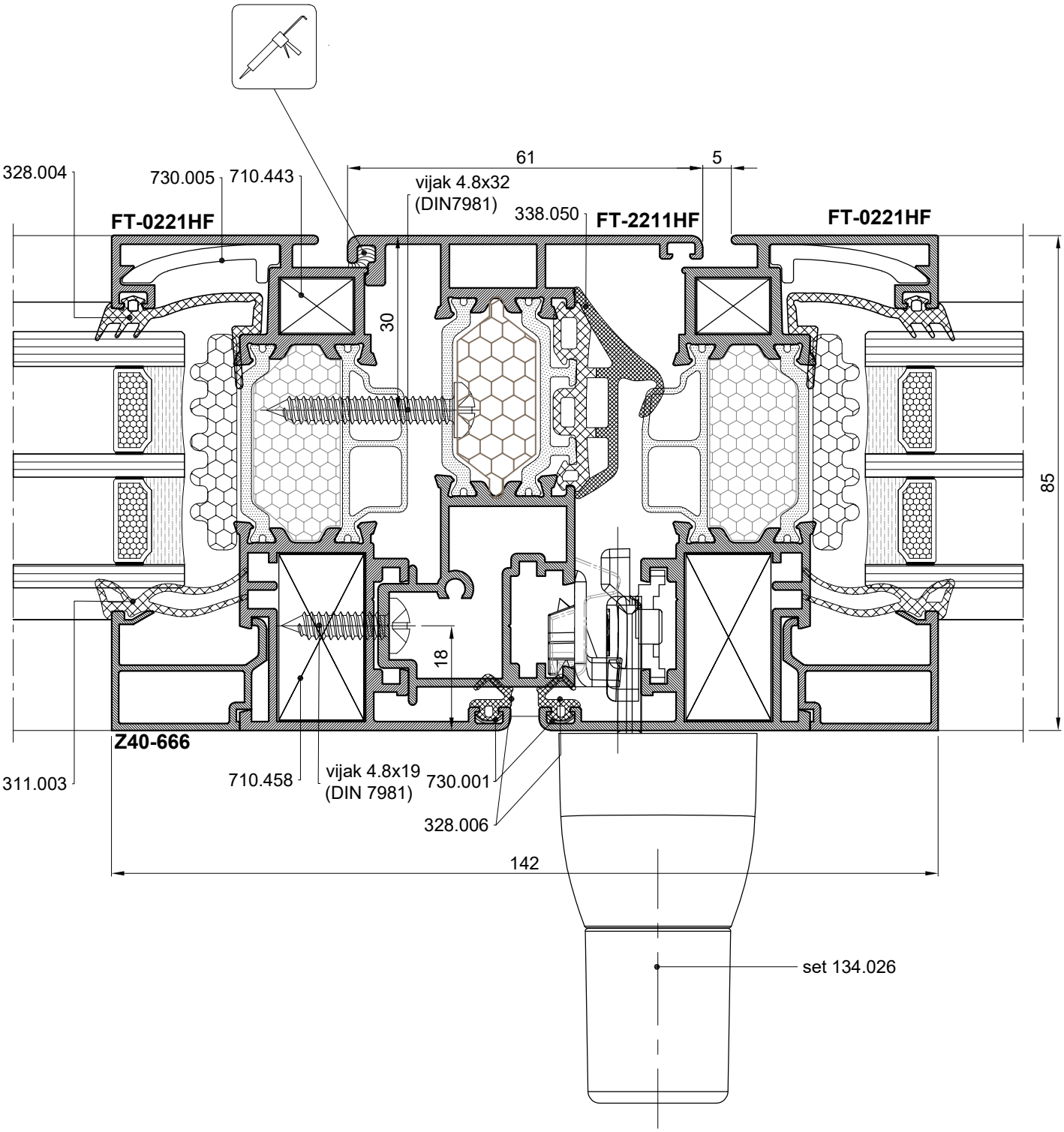

100
5
328.004
730.005
710.443
0.5
710.069
338.050
FT-2620HF
85
710.066
710.066
8
Z40-666
FT-0221HF
FT-0221HF
Z40-666
311.003
710.458
set 134.026



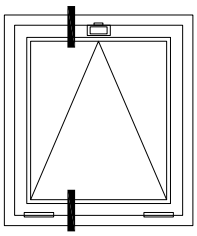


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

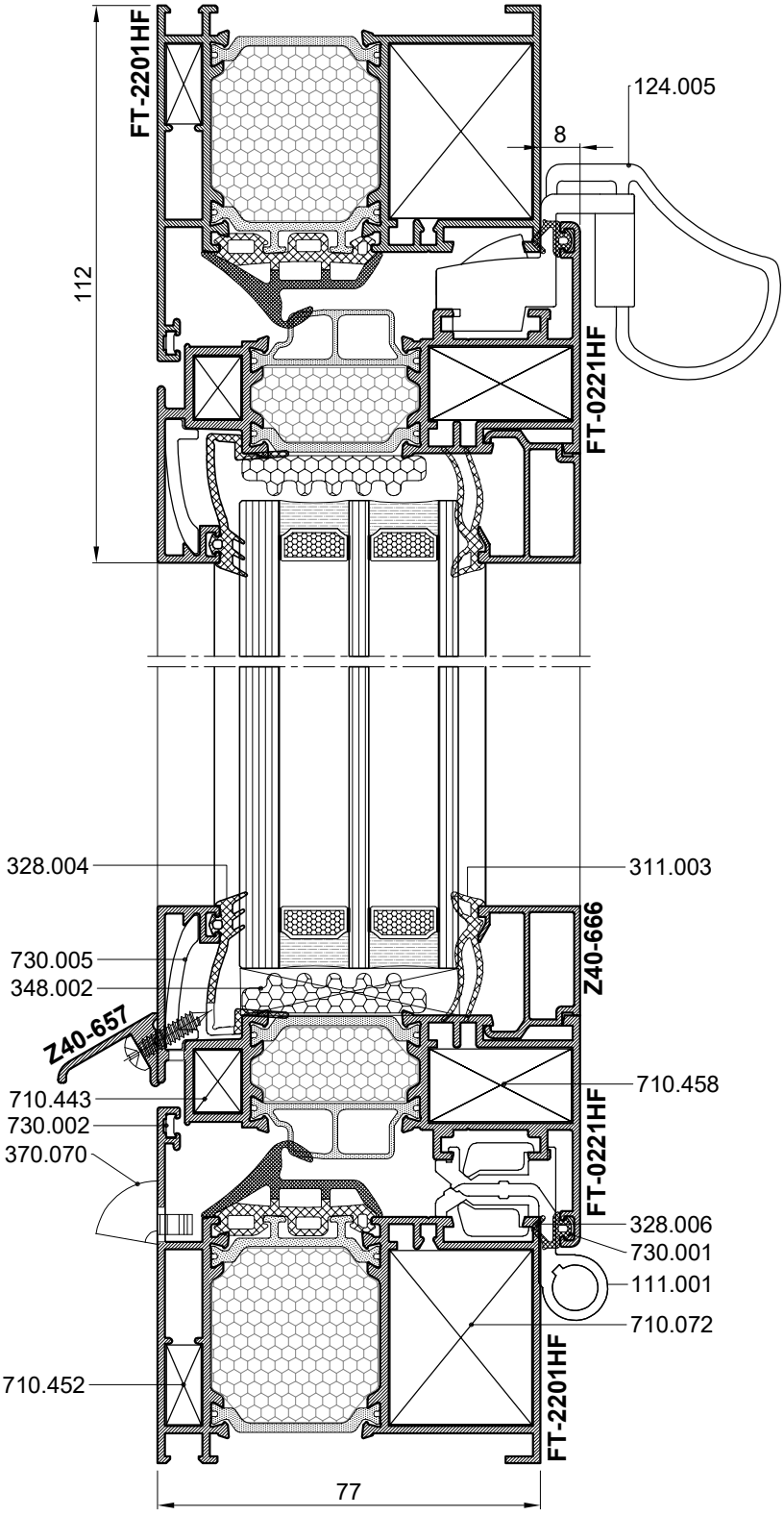


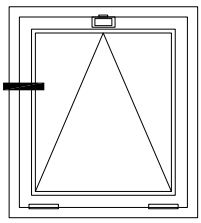


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

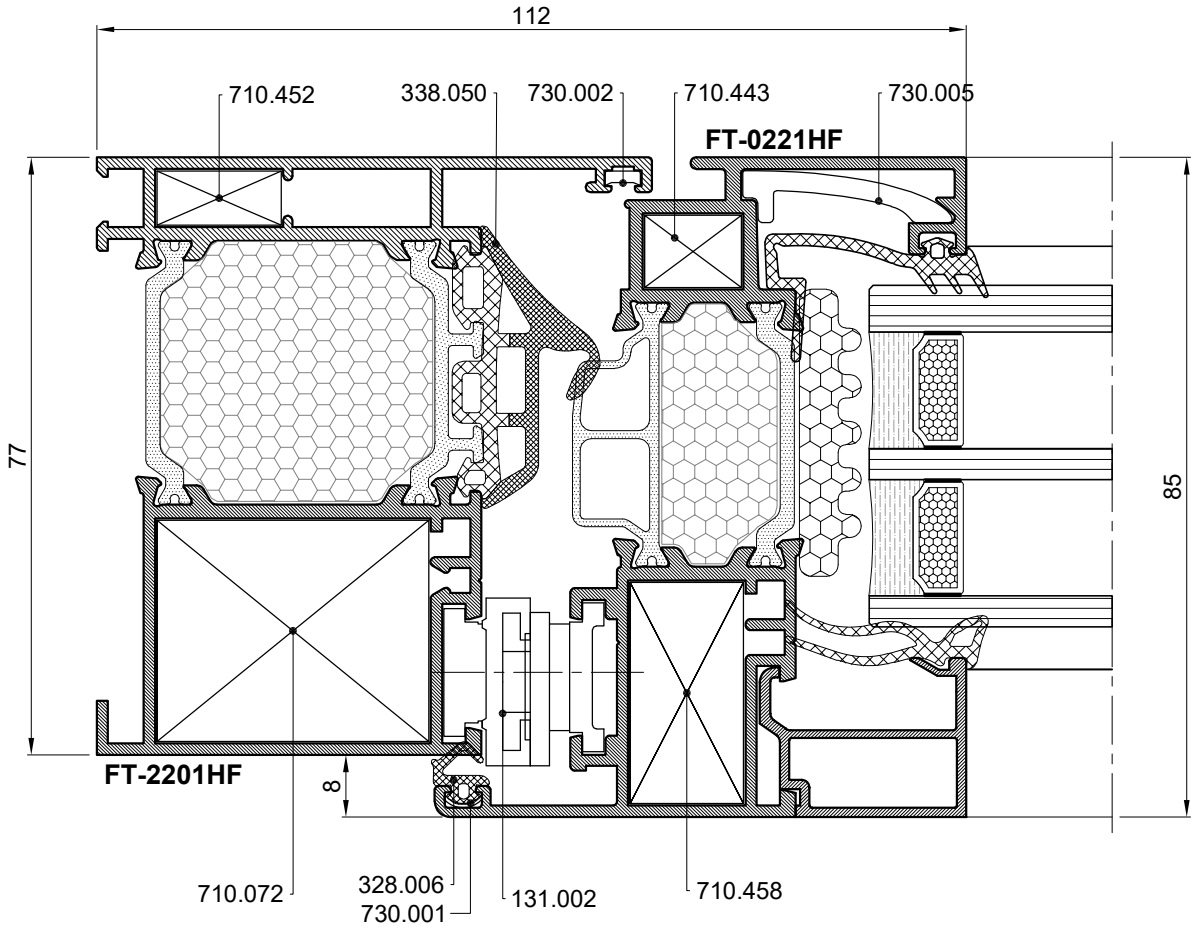


OTKLOPNI PROZOR - VENTUS
sa bravicom za zatvaranje (124.005) i škarama (131.002)
TILT WINDOW - VENTUS
with lock for closing - (124.005) and scissors (131.002)

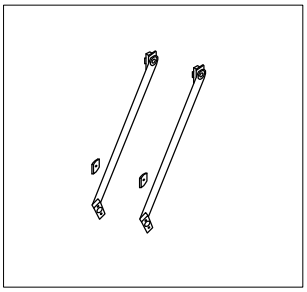


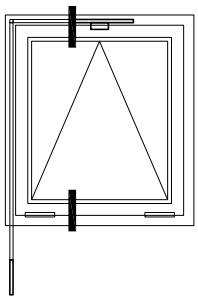


OTKLOPNI PROZOR - VENTUS
sa bravicom za zatvaranje (124.005) i škarama (131.002)
TILT WINDOW - VENTUS
with lock for closing - (124.005) and scissors (131.002)

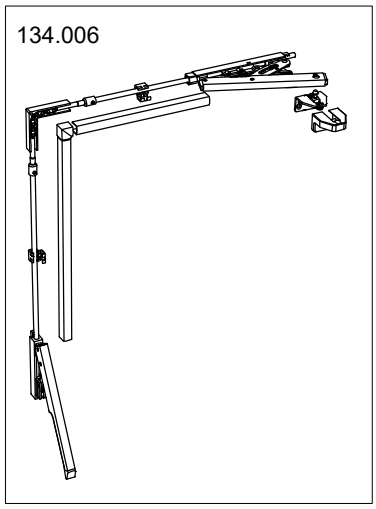


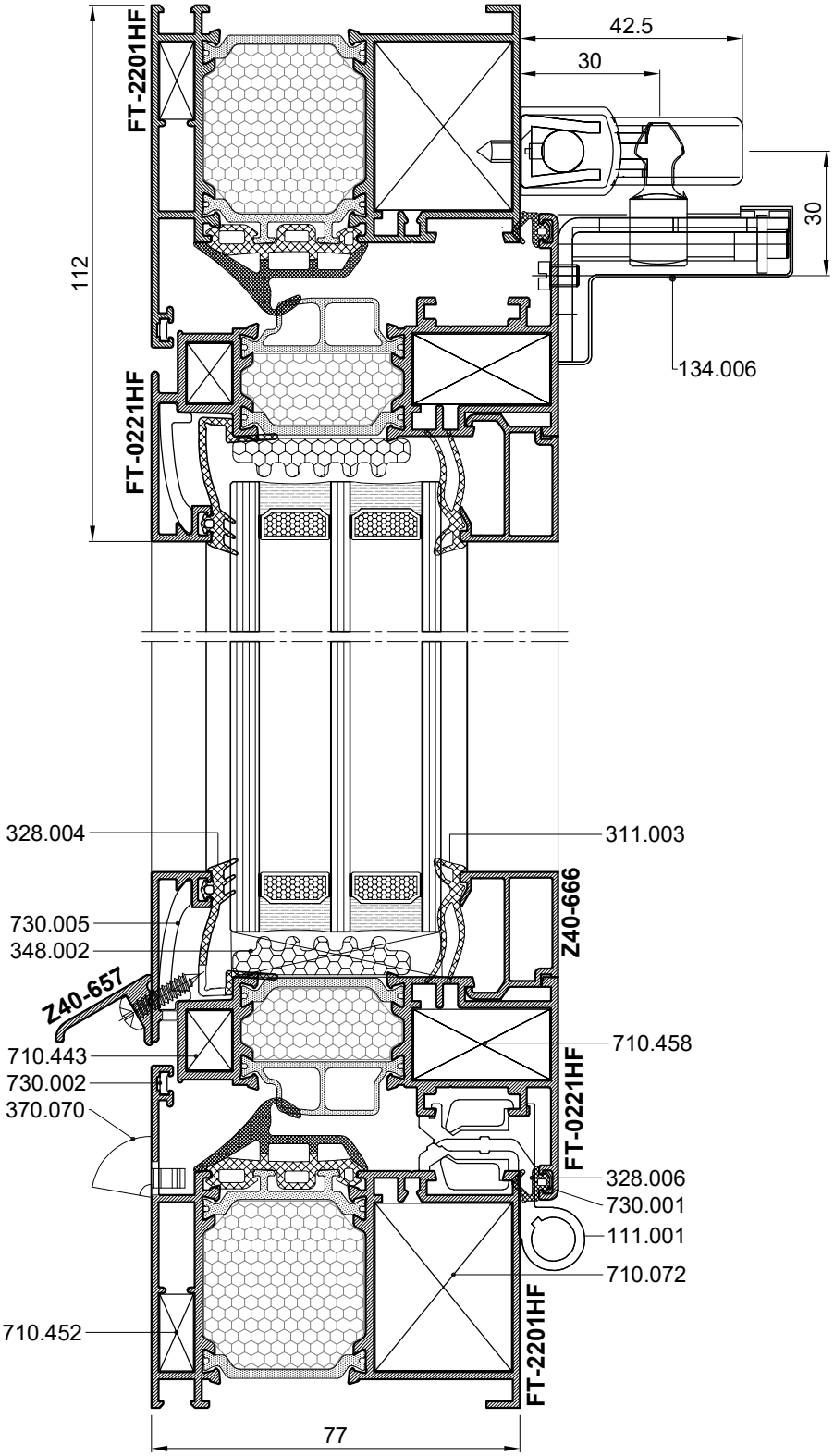
131.002



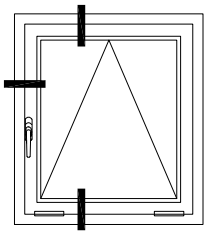


OTKLOPNI PROZOR - VENTUS sa ručkom za visinu (134.006)
TILT WINDOW - VENTUS with handle for height (134.006)

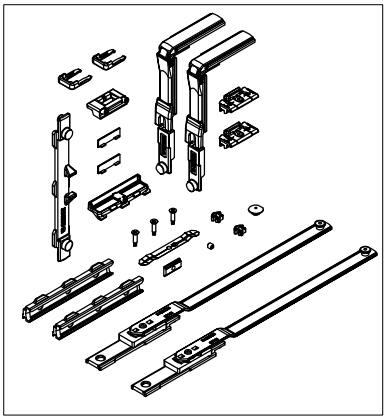


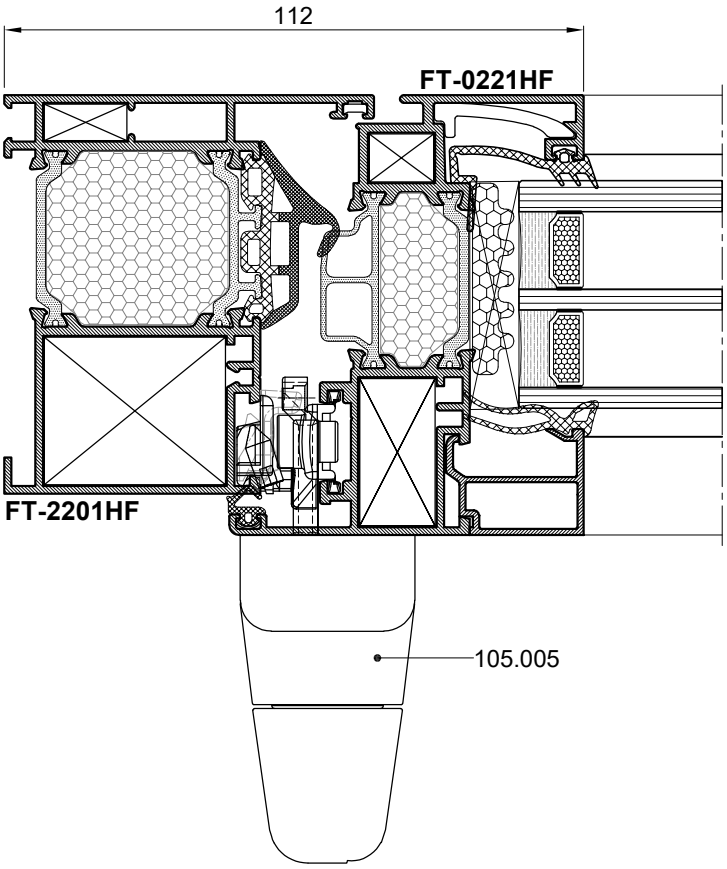


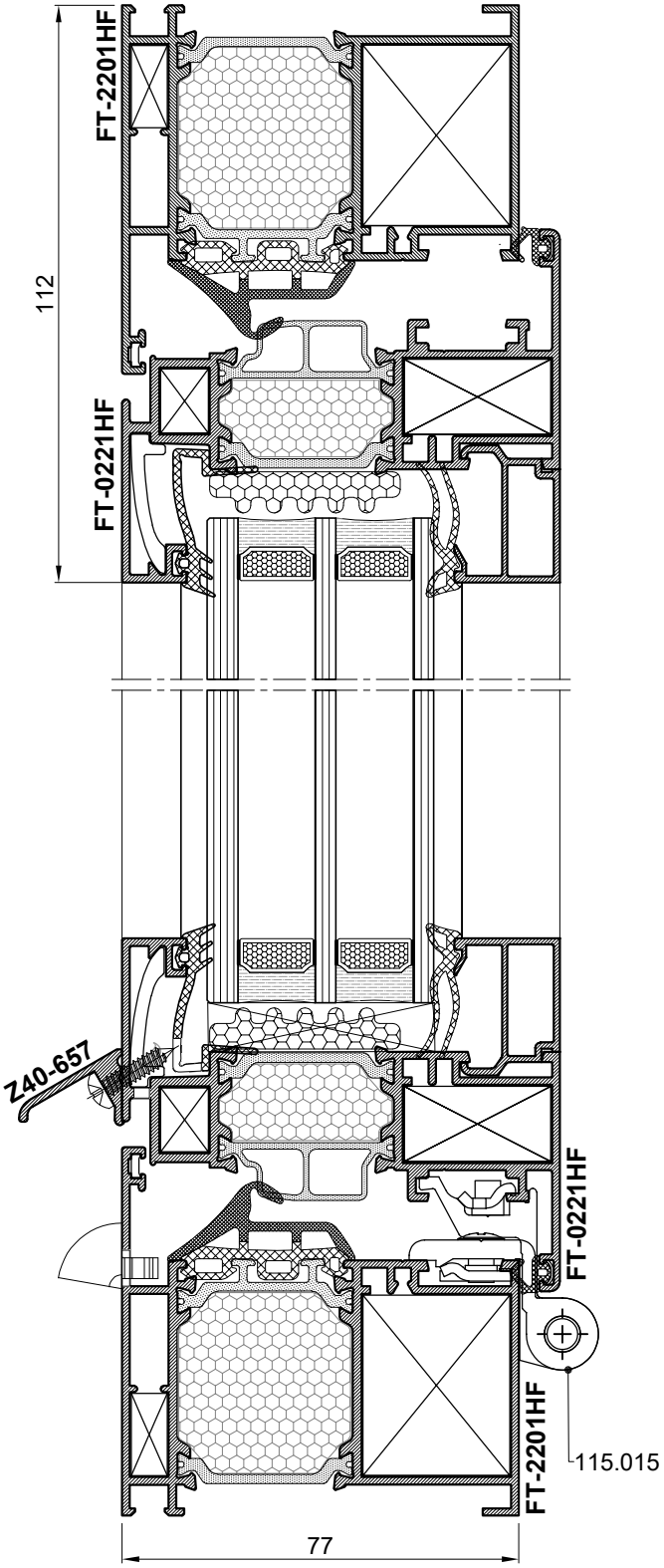
OTKLOPNI PROZOR - VENTUS sa ručkom na okomici (135.042)
TILT WINDOW - VENTUS with handle on side (135.042)



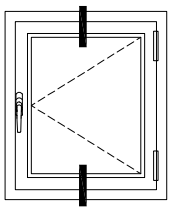
135.042



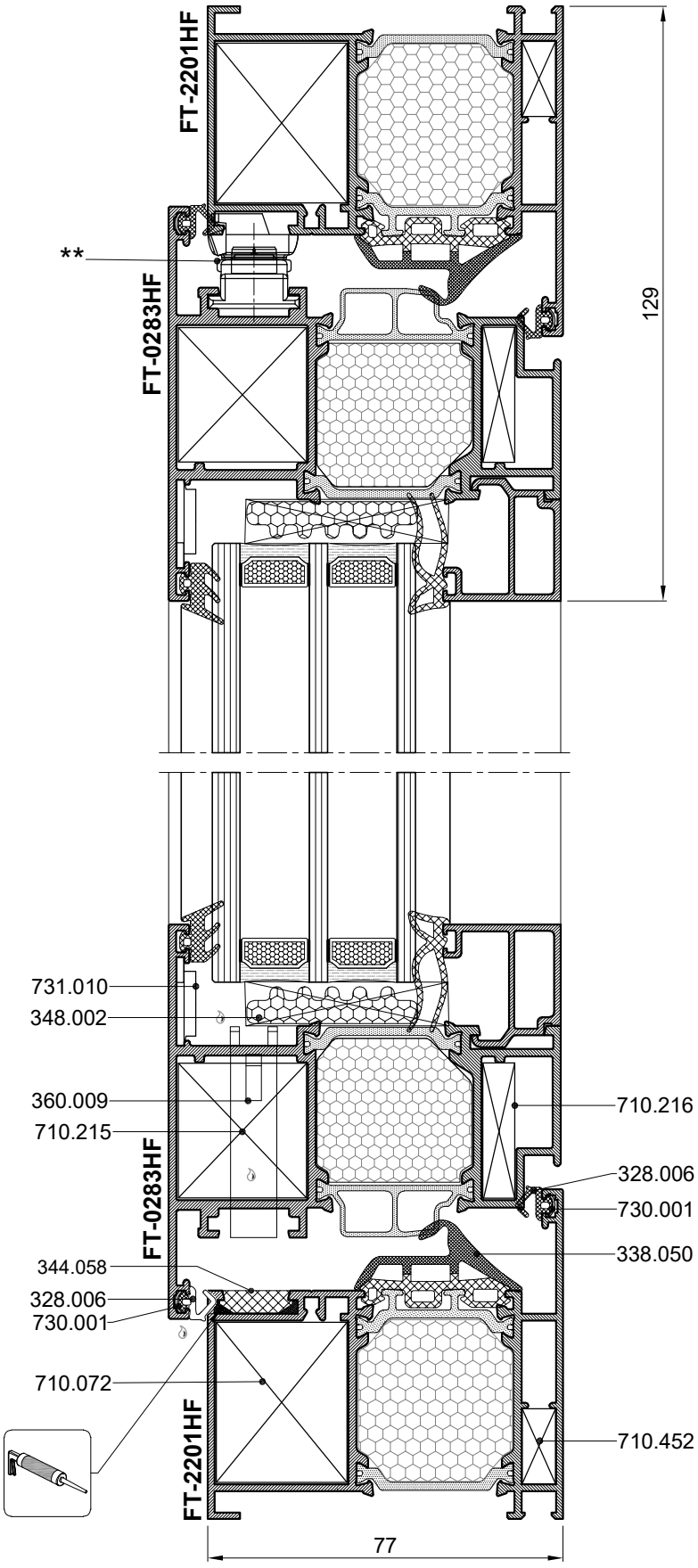


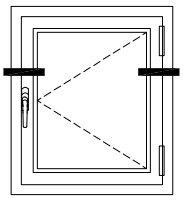


ZAOKRETNI PROZOR - otvaranje vani, zaokretno oko okomite osi
TURN WINDOW - outwards opening, turn around the vertical axis

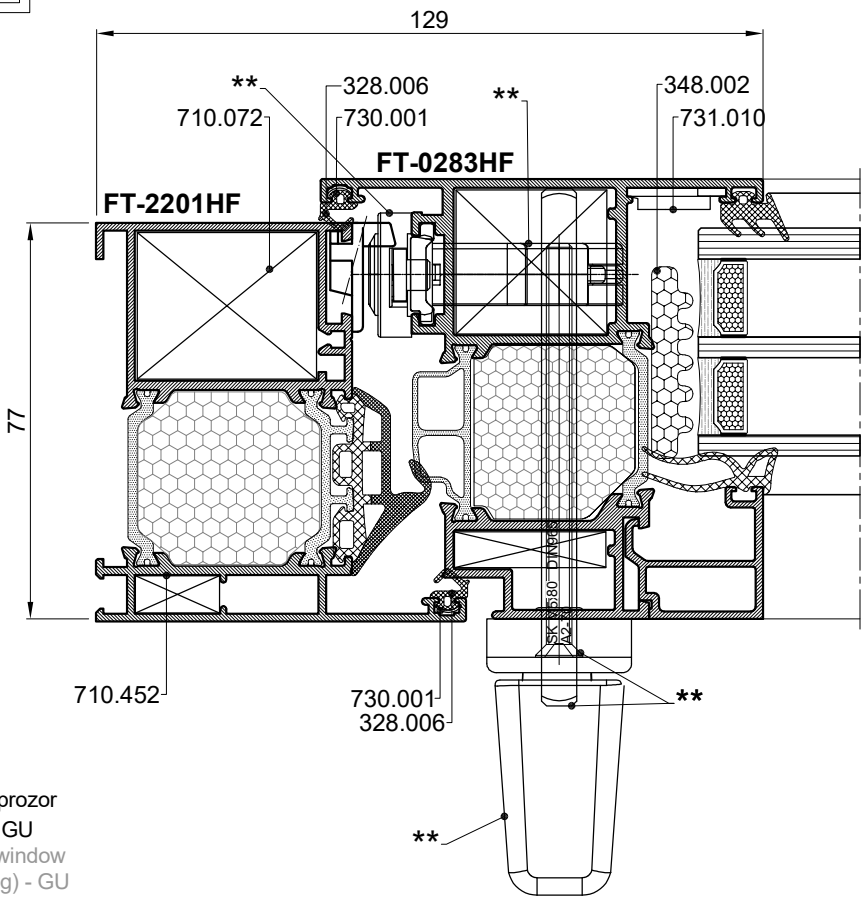


** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outwards opening) - GU

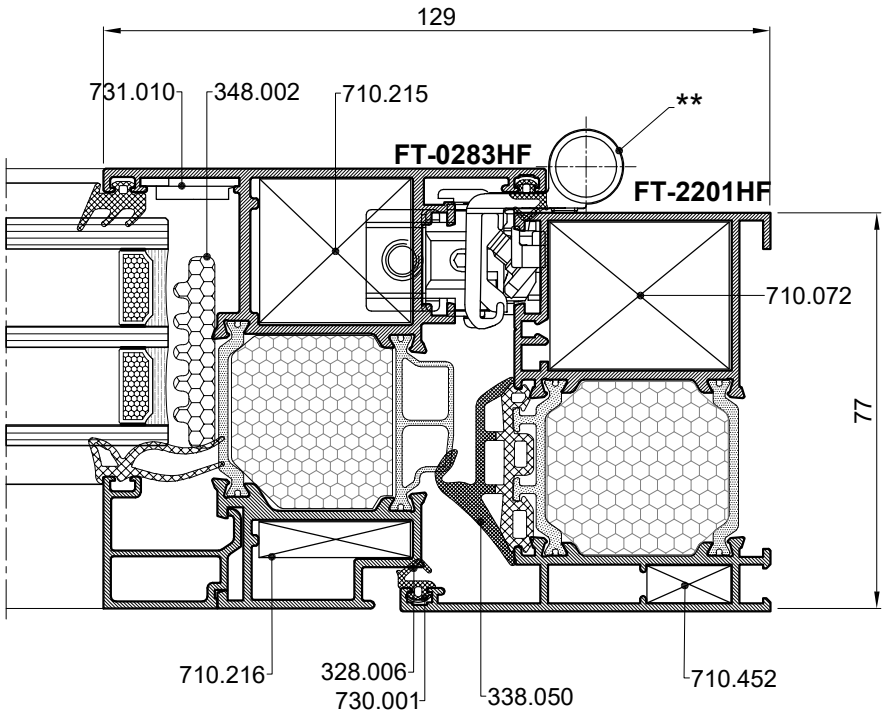


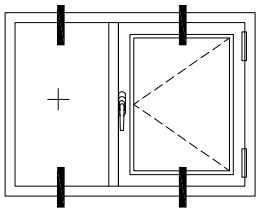


ZAOKRETNI PROZOR - otvaranje vani, zaokretno oko okomite osi
TURN WINDOW - outwards opening, turn around the vertical axis

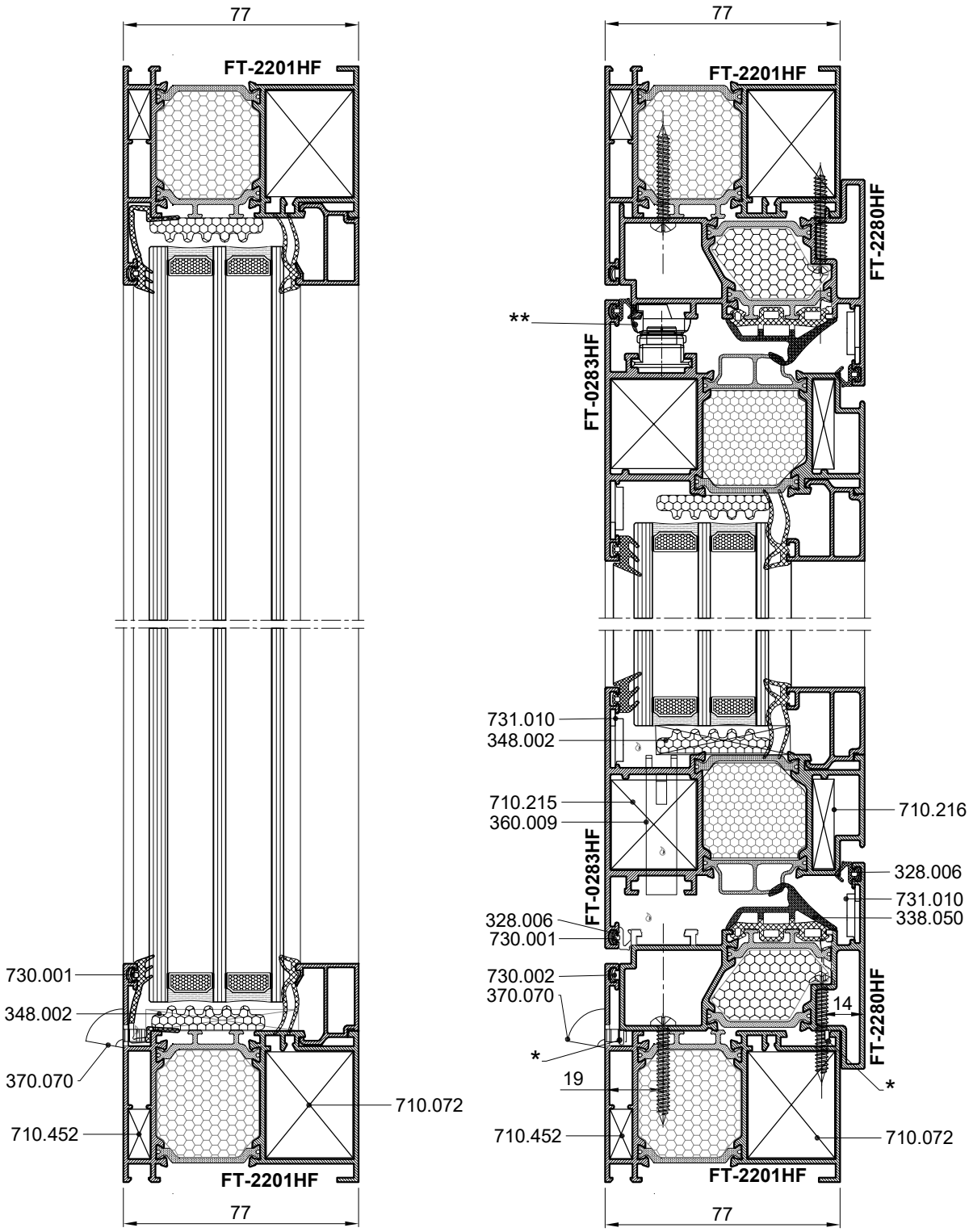


** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outwards opening) - GU

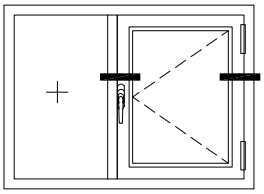




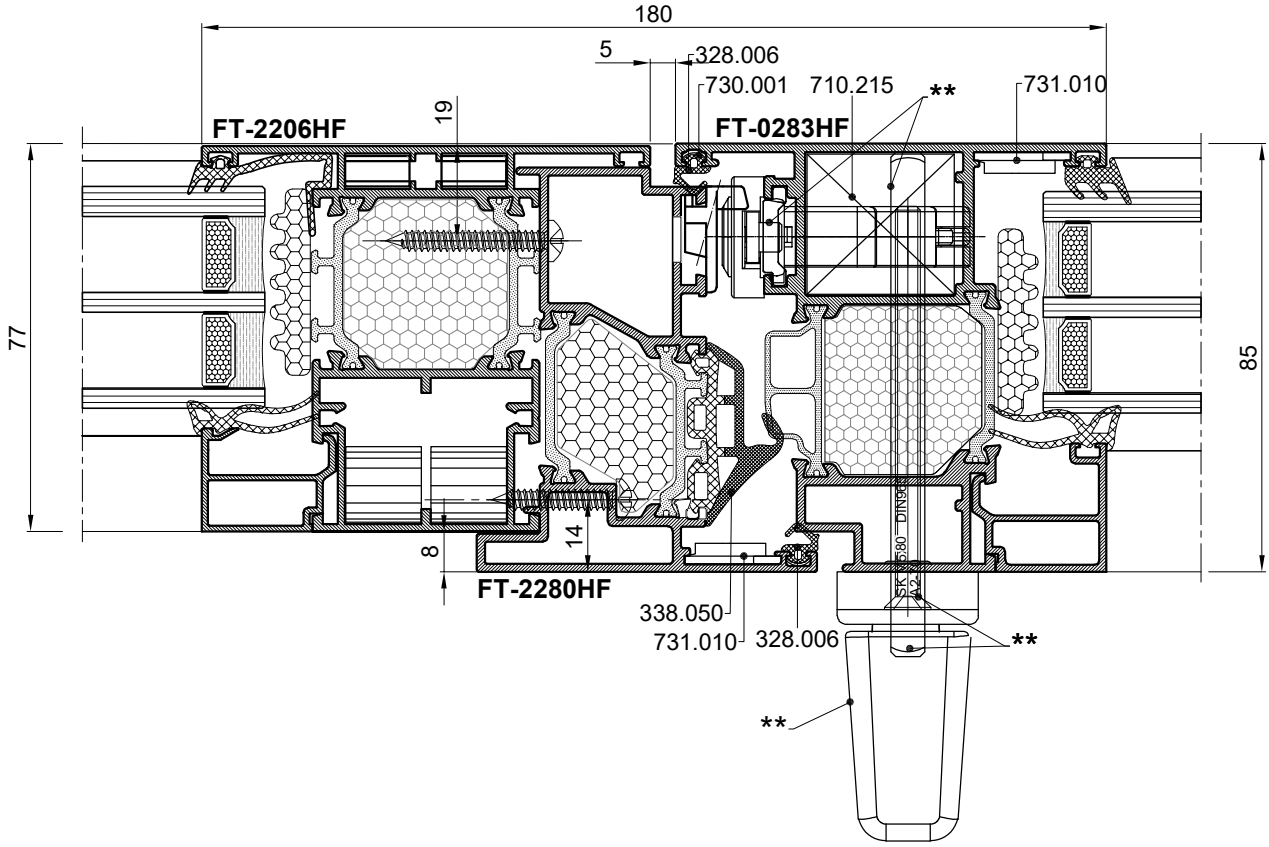
** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outwards opening) - GU

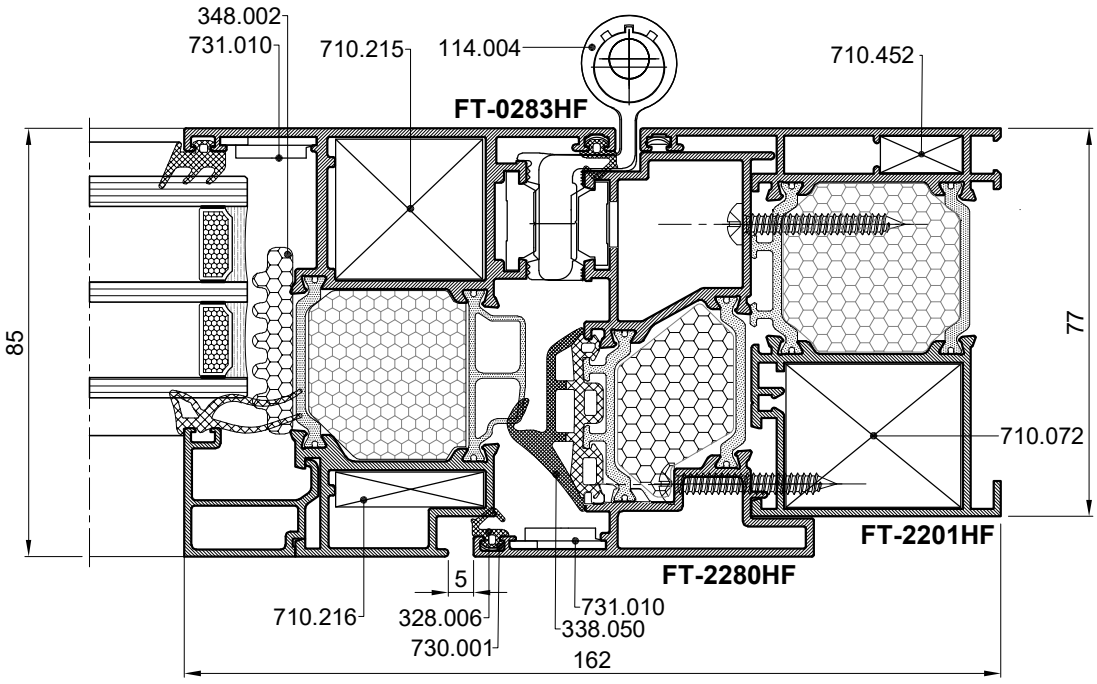


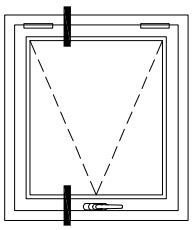
* ugradnja donjeg pojasa okvira FT-2280HF moguća je uz označenu obradu (ukloniti označeno cijelom duljinom profila).
* installation of the lower frame belt FT-2280HF is possible with marked processing (remove marked along the entire length of the profile).

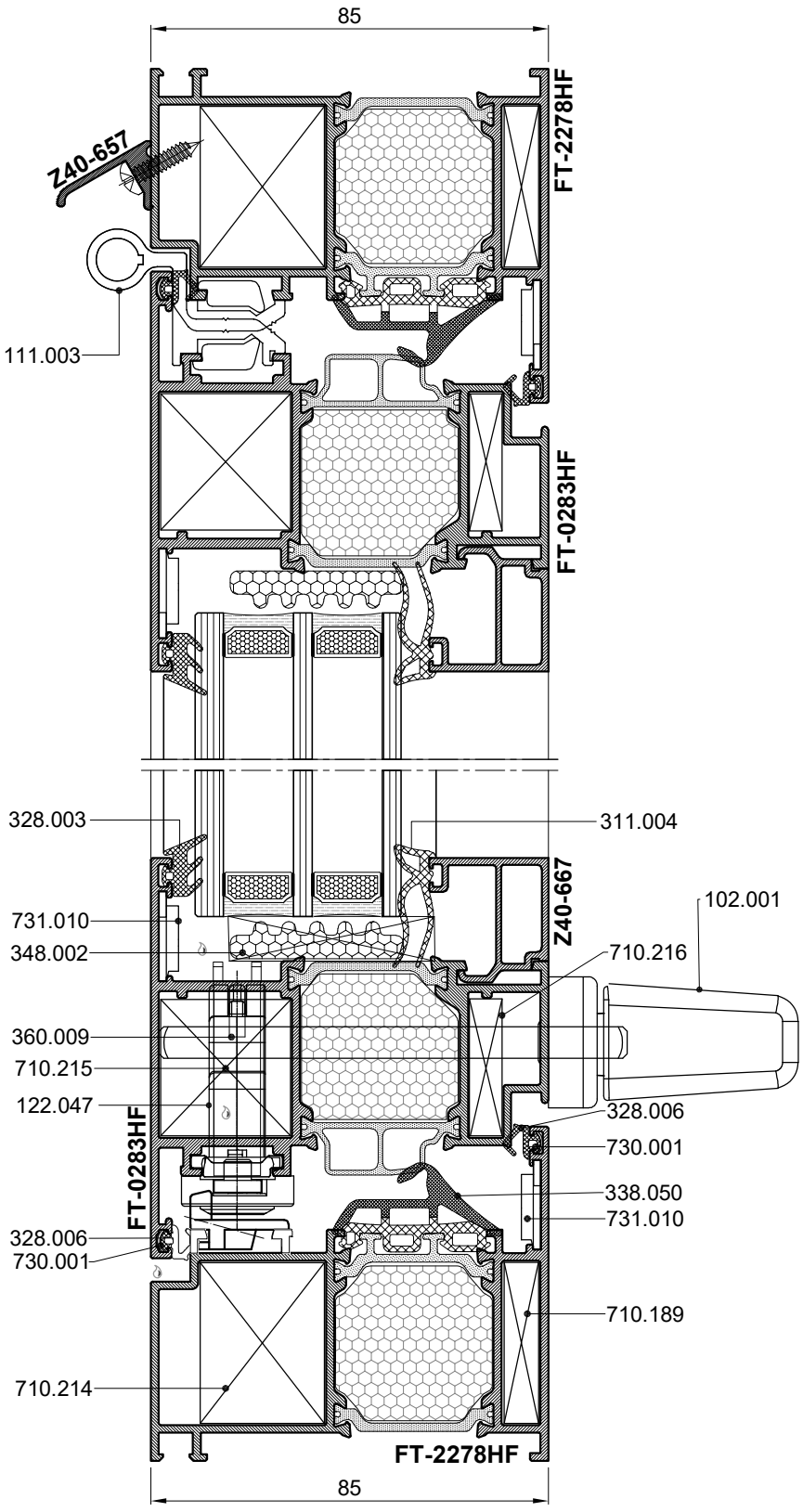


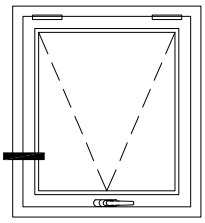
** Okov za zaokretni prozor
- (otvaranje vani) - GU
Hardware for turn window
- (outwards opening) - GU

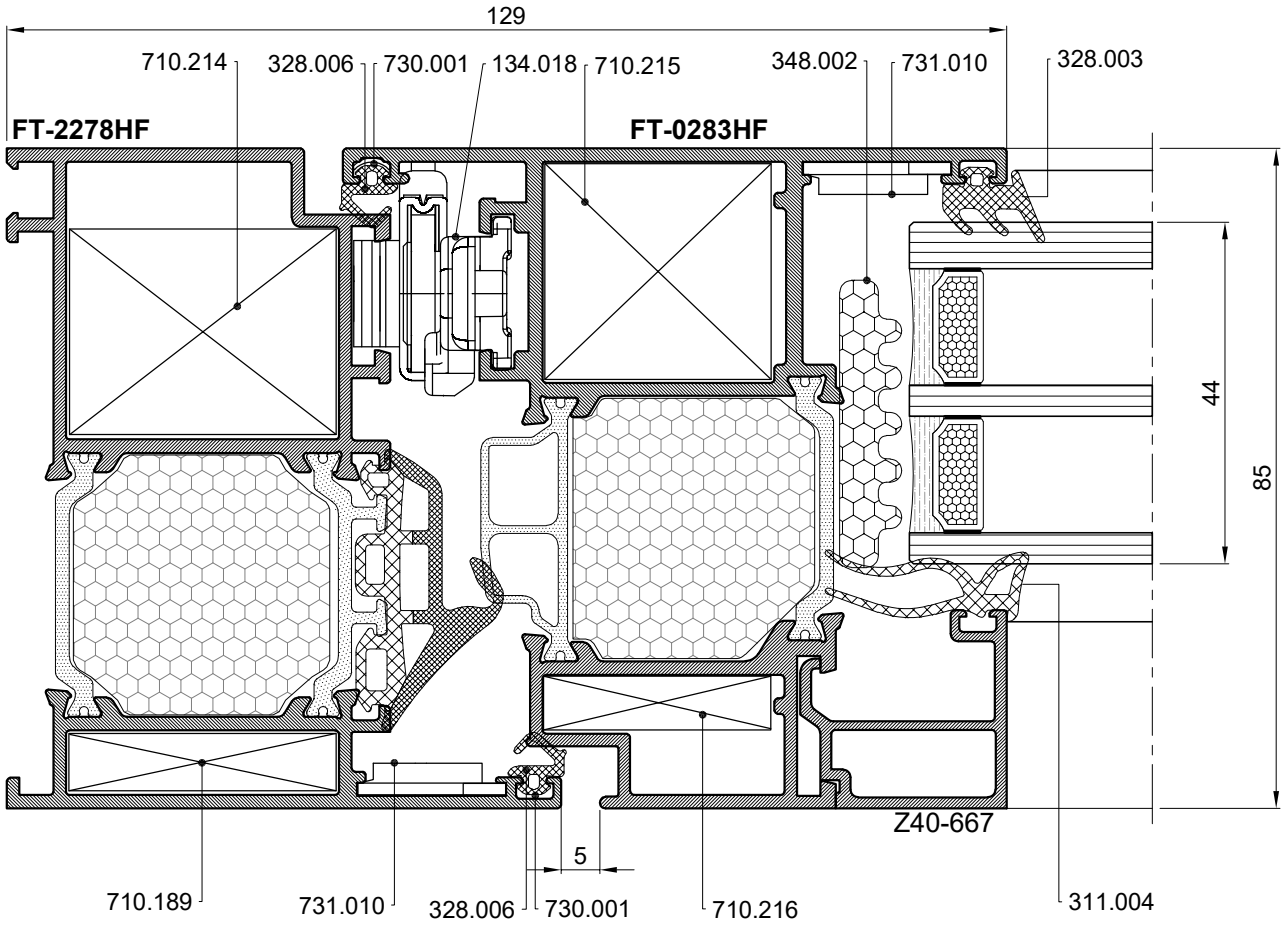


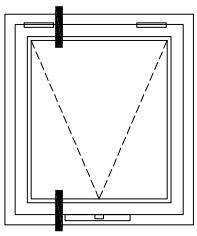


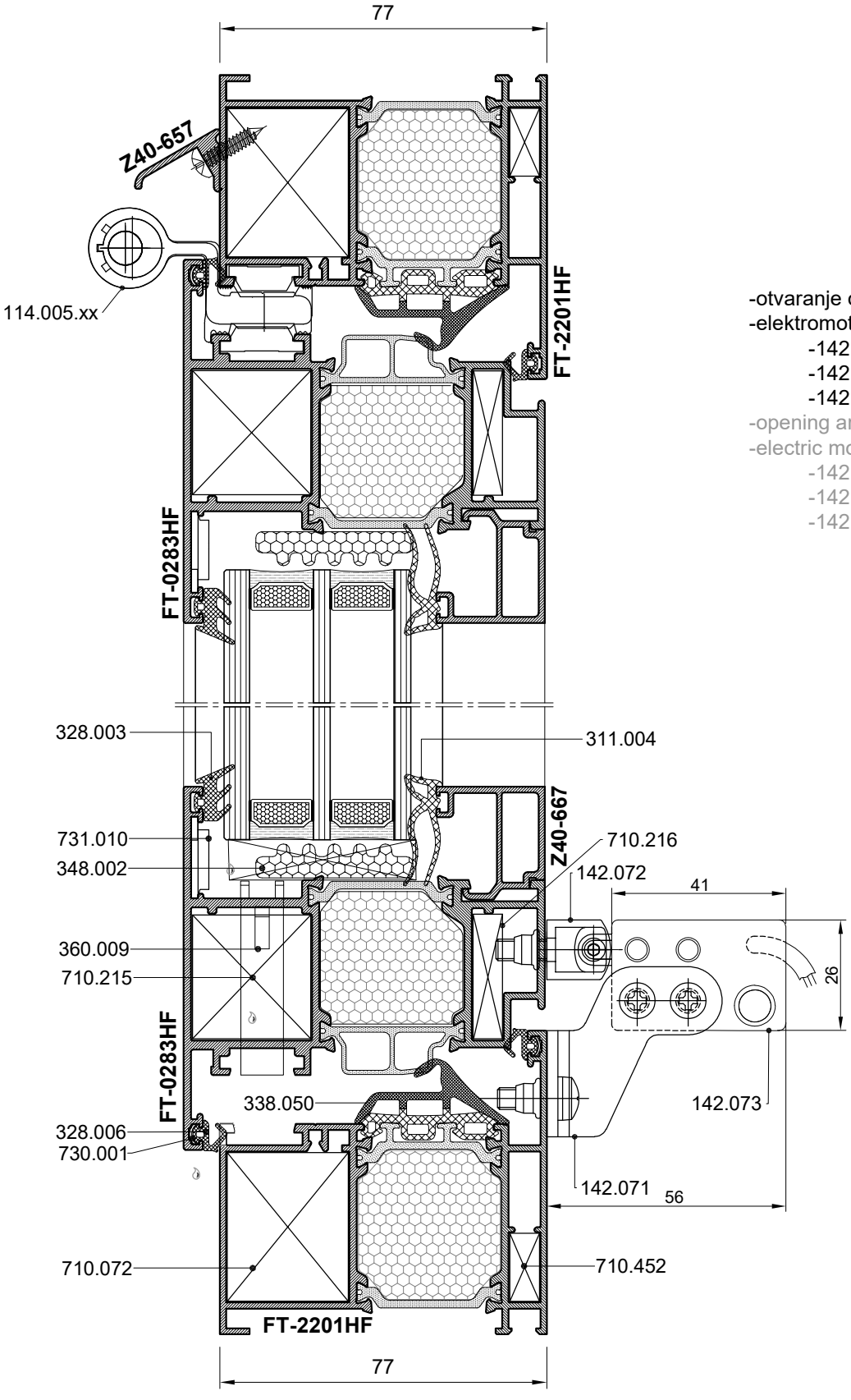



85
Z40-657
FT-2278HF
111.003
FT-0283HF
328.003
311.004
Z40-667
102.001
731.010
348.002
710.216
360.009
710.215
122.047
328.006
730.001
FT-0283HF
338.050
731.010
328.006
730.001
710.189
710.214
FT-2278HF
85



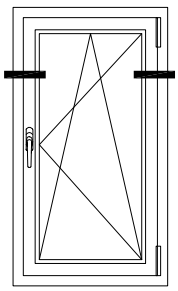

129
710.214
328.006
730.001
134.018
710.215
348.002
731.010
328.003
FT-2278HF
FT-0283HF
44
85
Z40-667
5
710.189
731.010
328.006
730.001
710.216
311.004

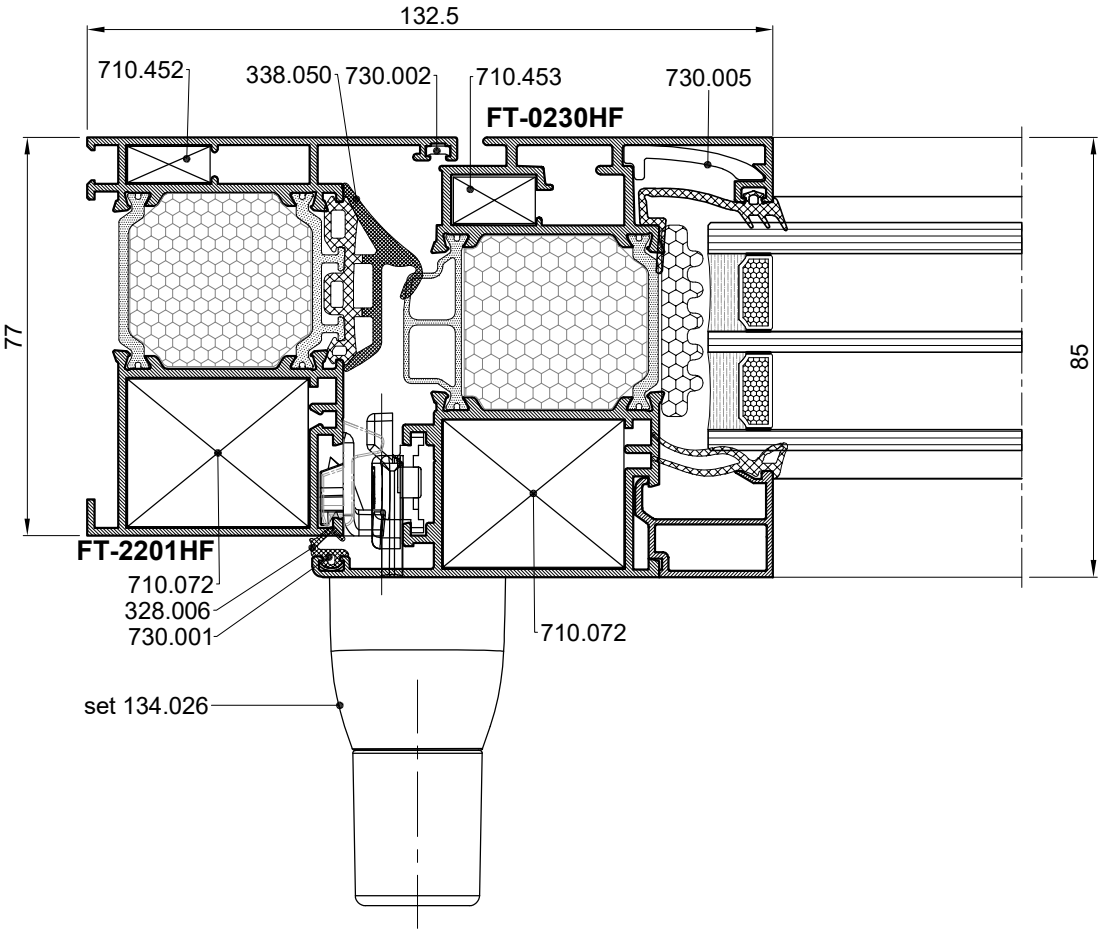


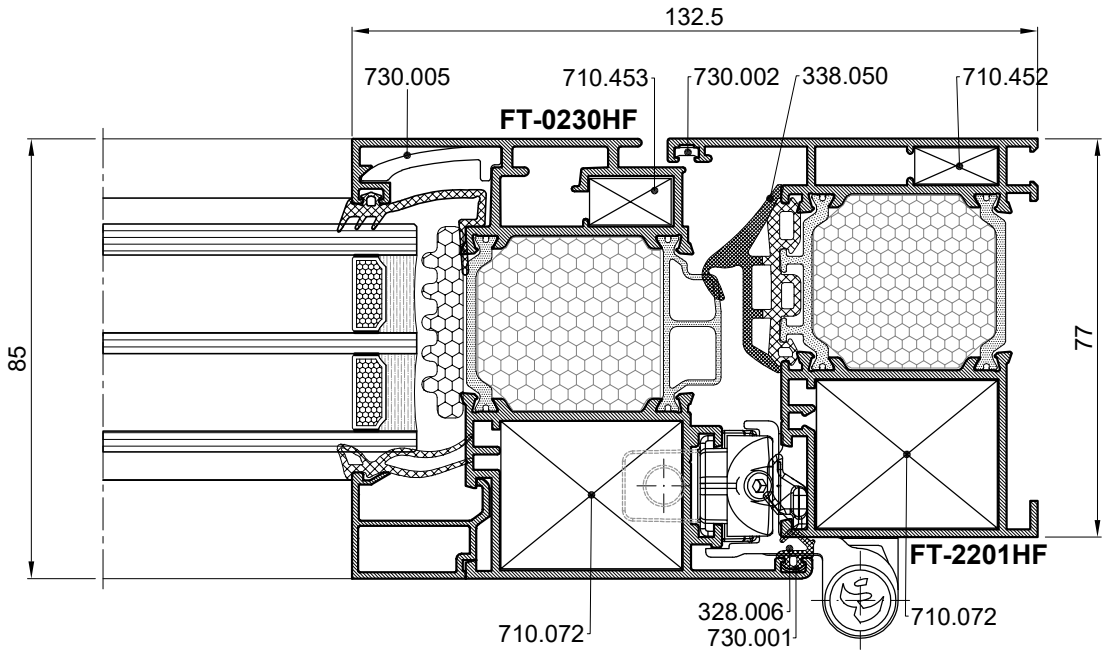


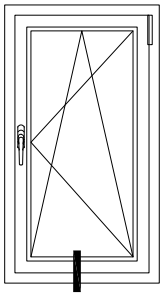
-otvaranje oko gornje ose
-elektromotorni pogon
- -142.073 - hod motora 200 mm
- -142.074 - hod motora 300 mm
- -142.094 - hod motora 400 mm

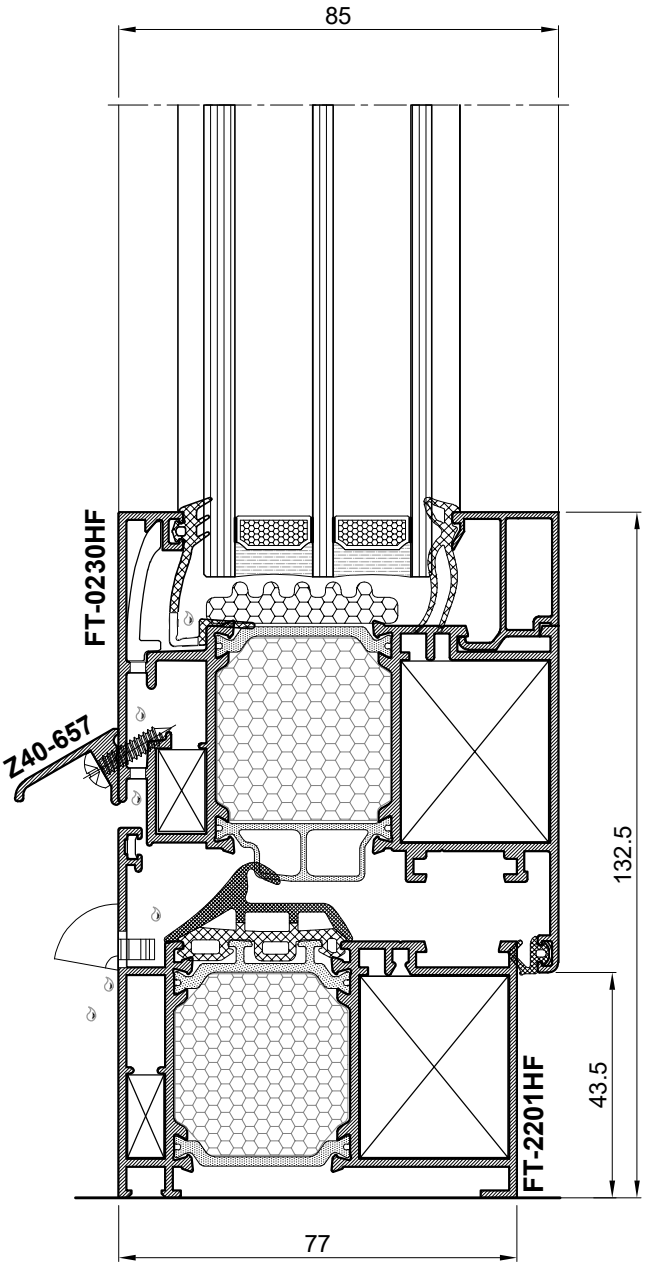
-opening around the top axis
-electric motor drive
- -142.073 - stroke length 200 mm
- -142.074 - stroke length 300 mm
- -142.094 - stroke length 400 mm

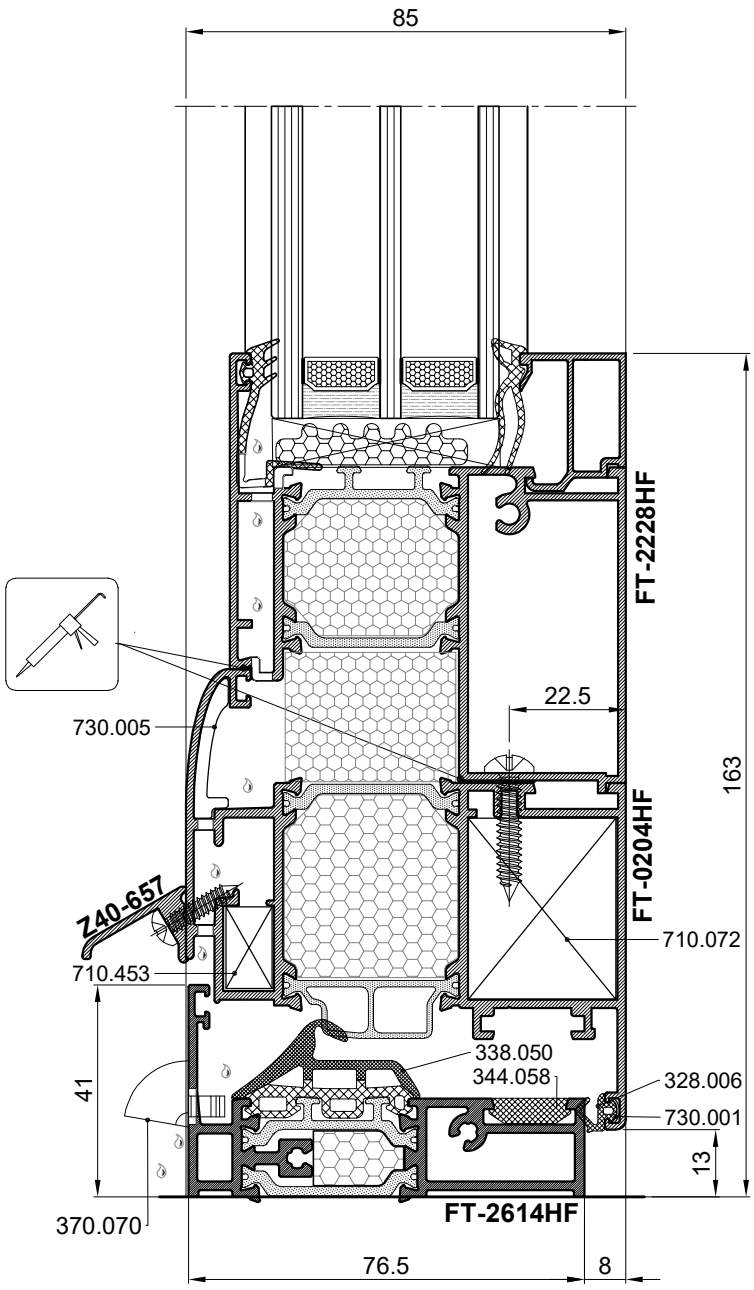



132.5
710.452
338.050
730.002
710.453
730.005
FT-0230HF
77
85
FT-2201HF
710.072
328.006
730.001
710.072
set 134.026


132.5
730.005
710.453
730.002
338.050
710.452
FT-0230HF
85
77
FT-2201HF
710.072
328.006
730.001
710.072

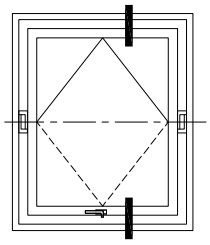


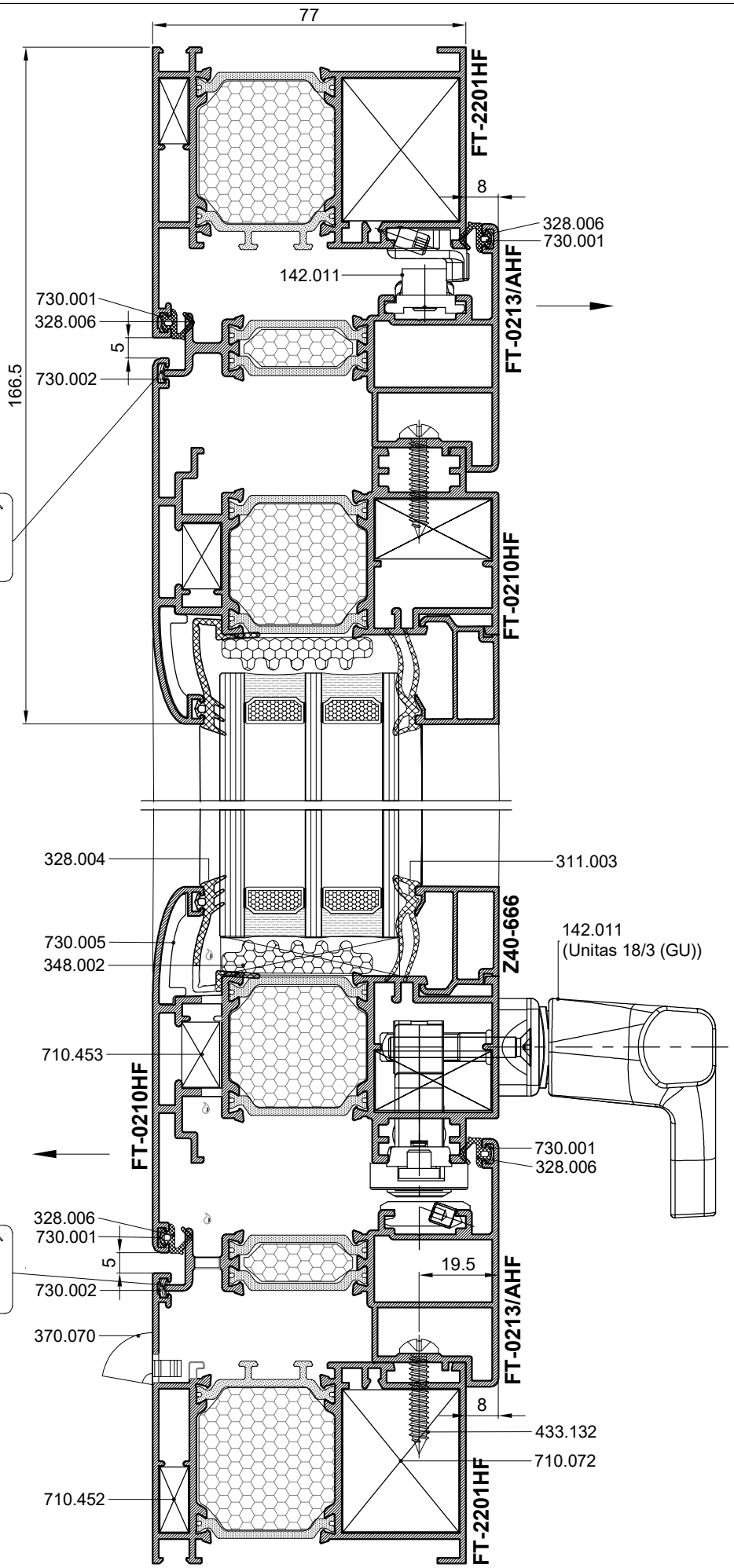




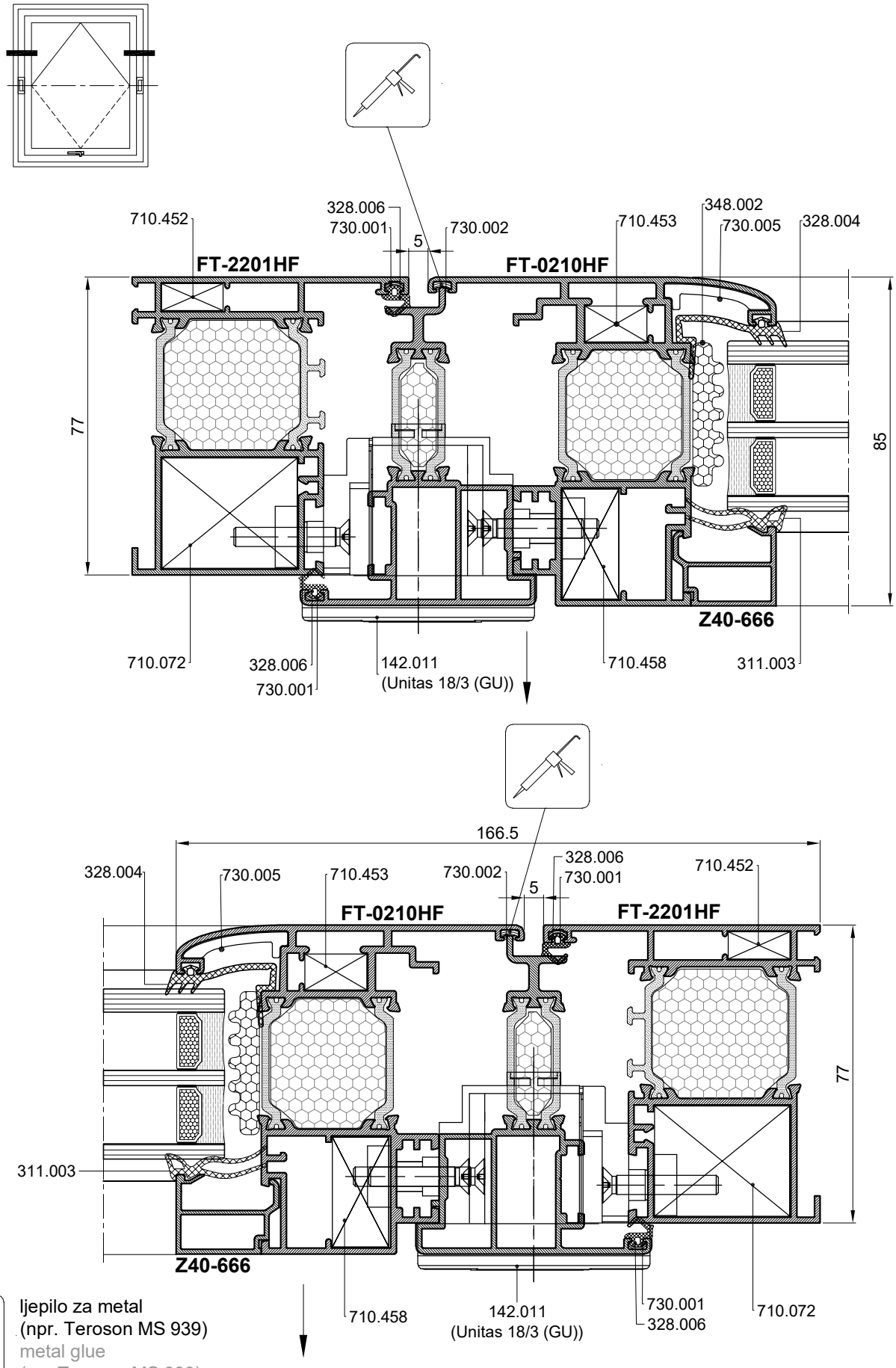
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

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

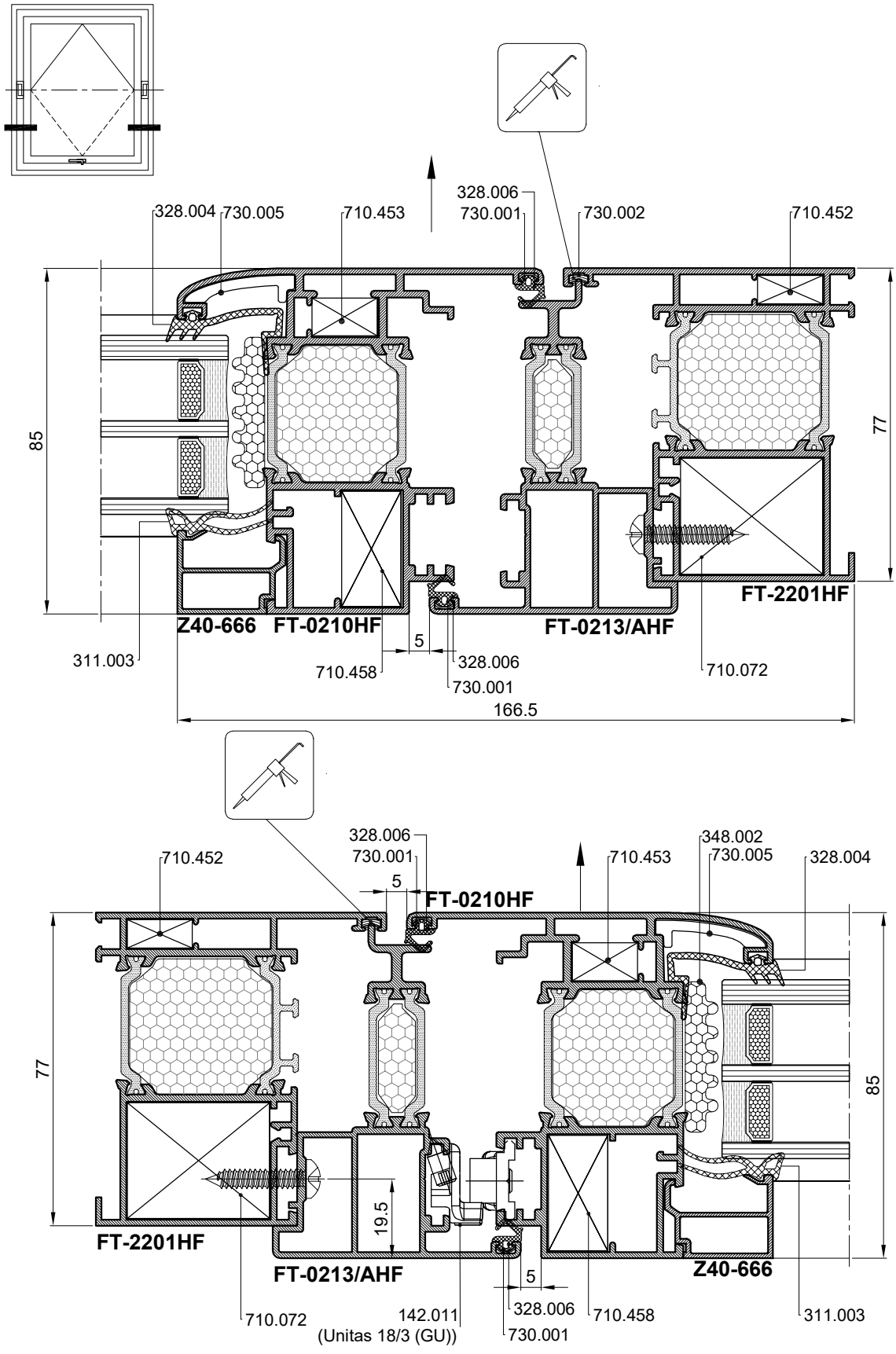




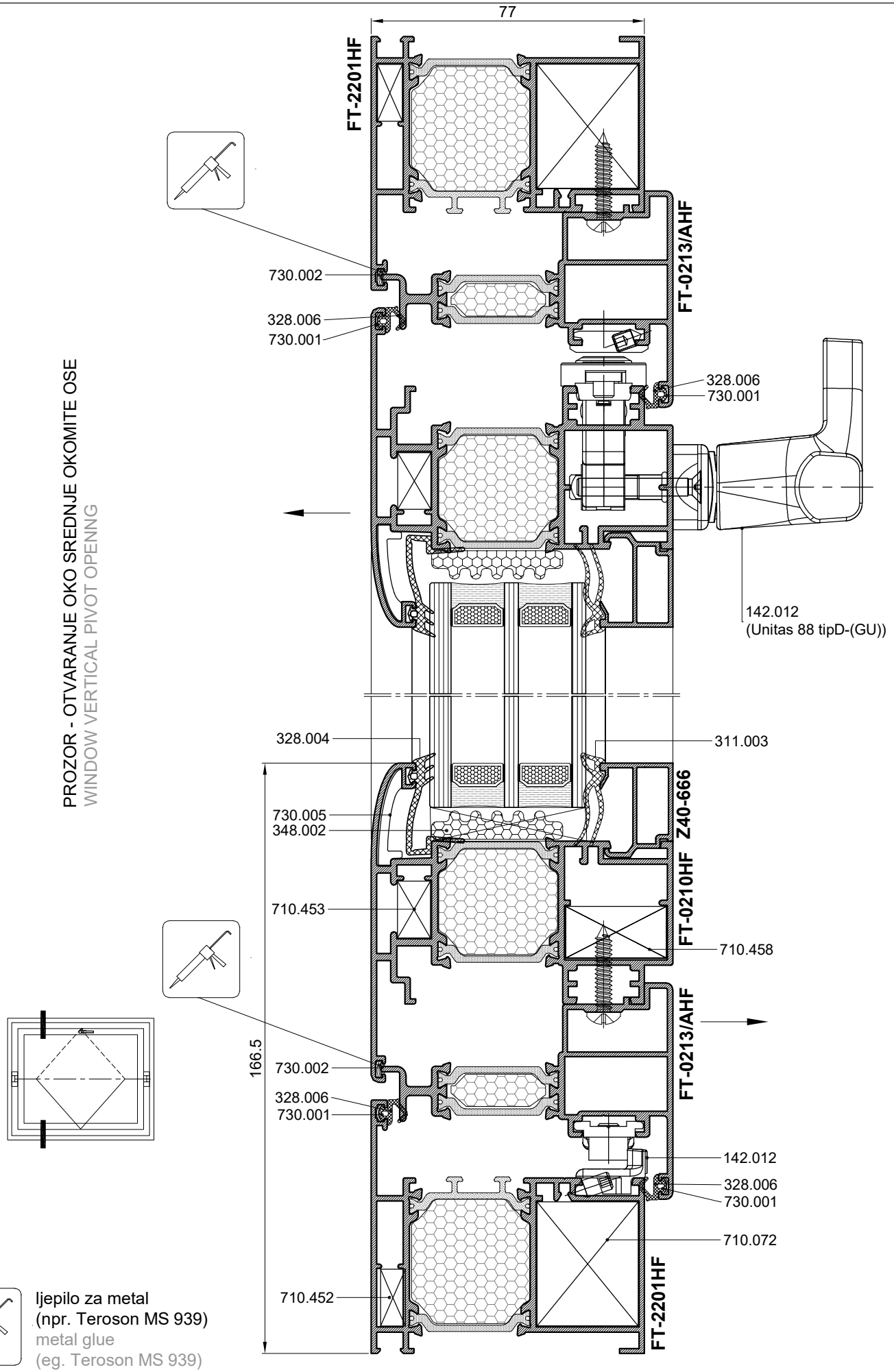
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

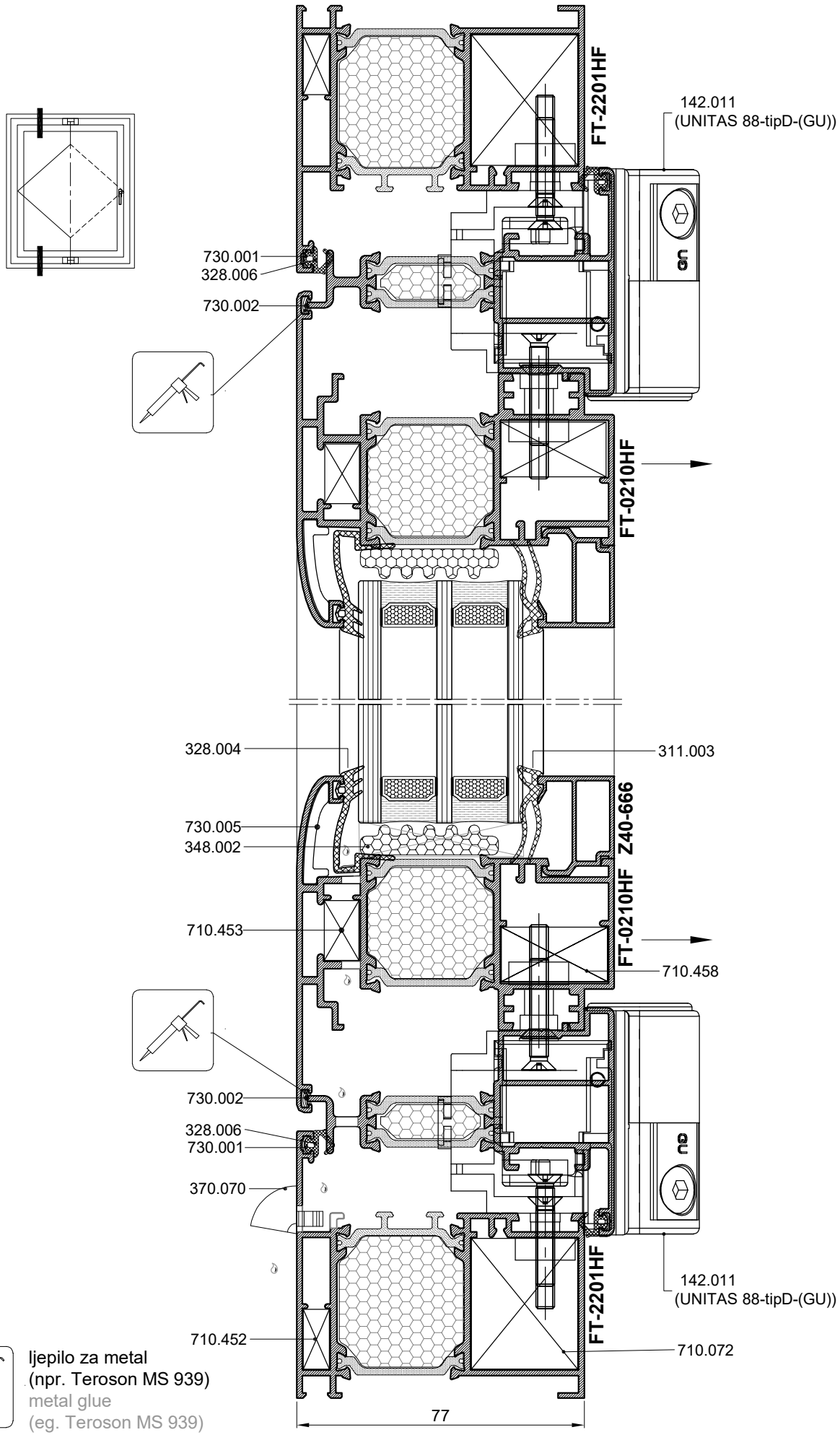


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

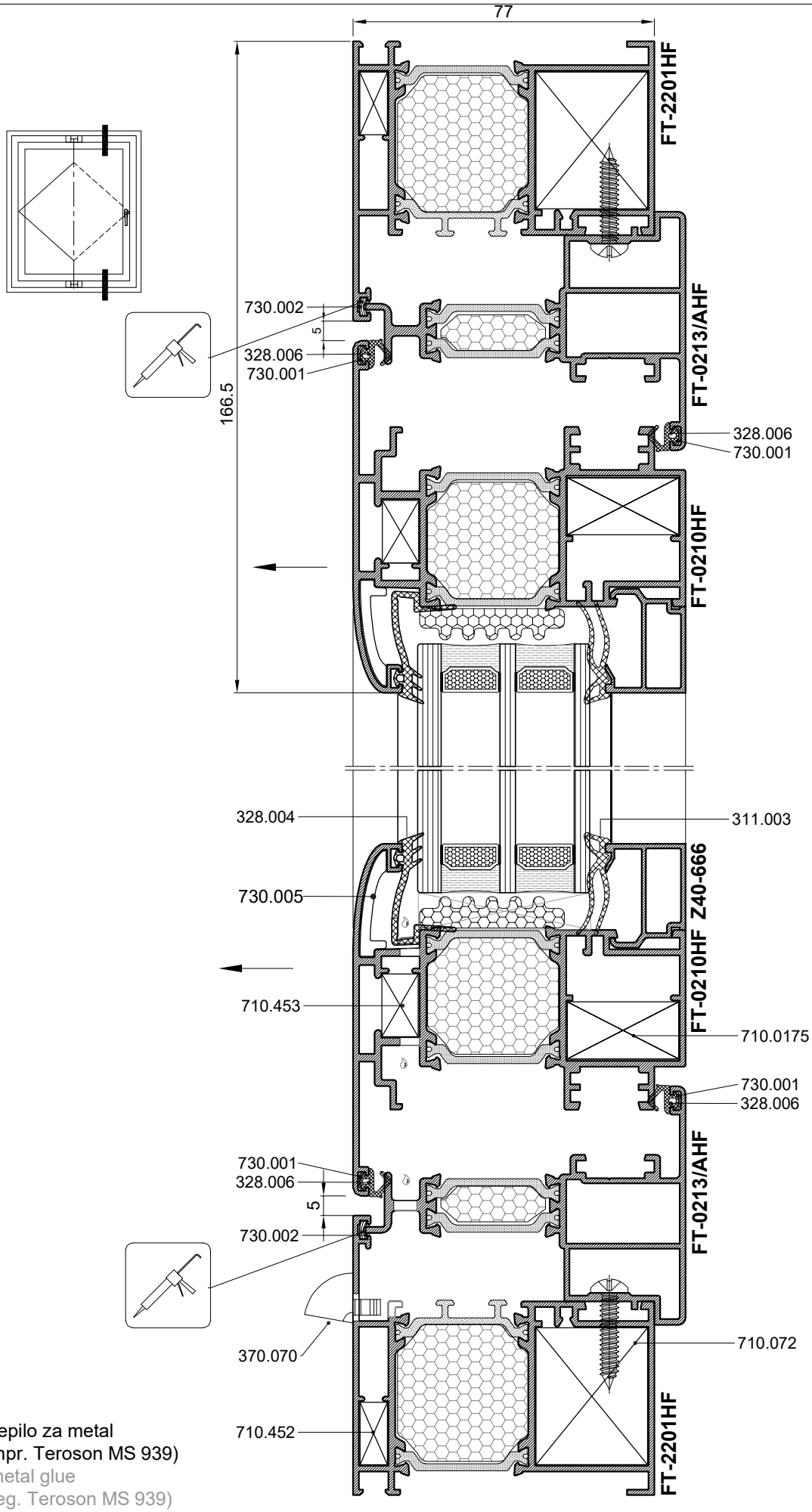


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

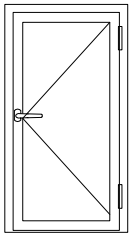

77
FT-2201HF
FT-0213/AHF
730.002
328.006
730.001
328.006
730.001
142.012
(Unitas 88 tipD-(GU))
328.004
311.003
730.005
348.002
Z40-666
FT-0210HF
710.453
710.458
FT-0213/AHF
166.5
730.002
328.006
730.001
142.012
328.006
730.001
710.072
710.452
FT-2201HF
PROZOR - OTVARANJE OKO SREDNJE OKOMITE OSE
WINDOW VERTICAL PIVOT OPENNG
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

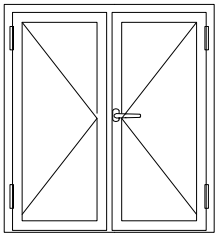


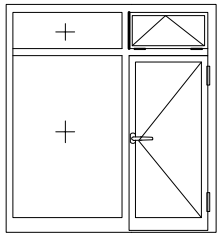
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

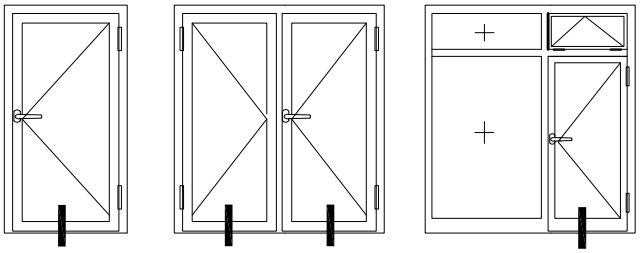


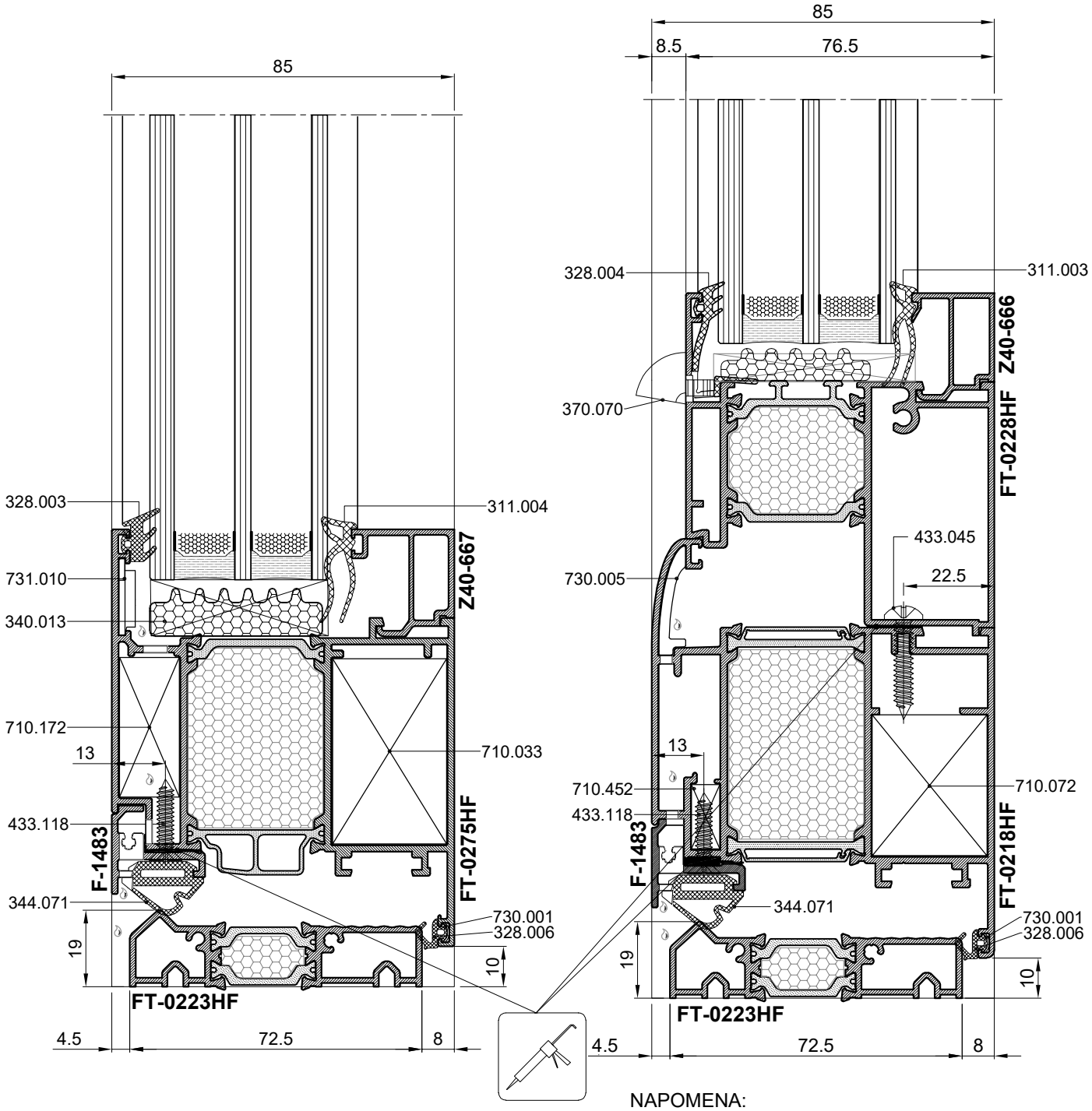
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)





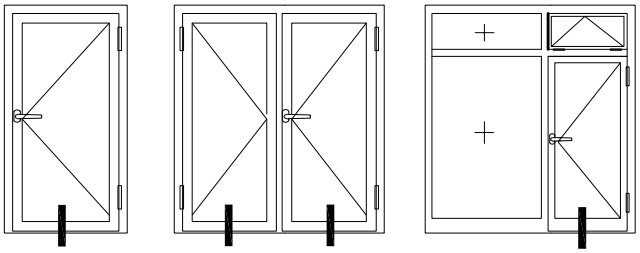


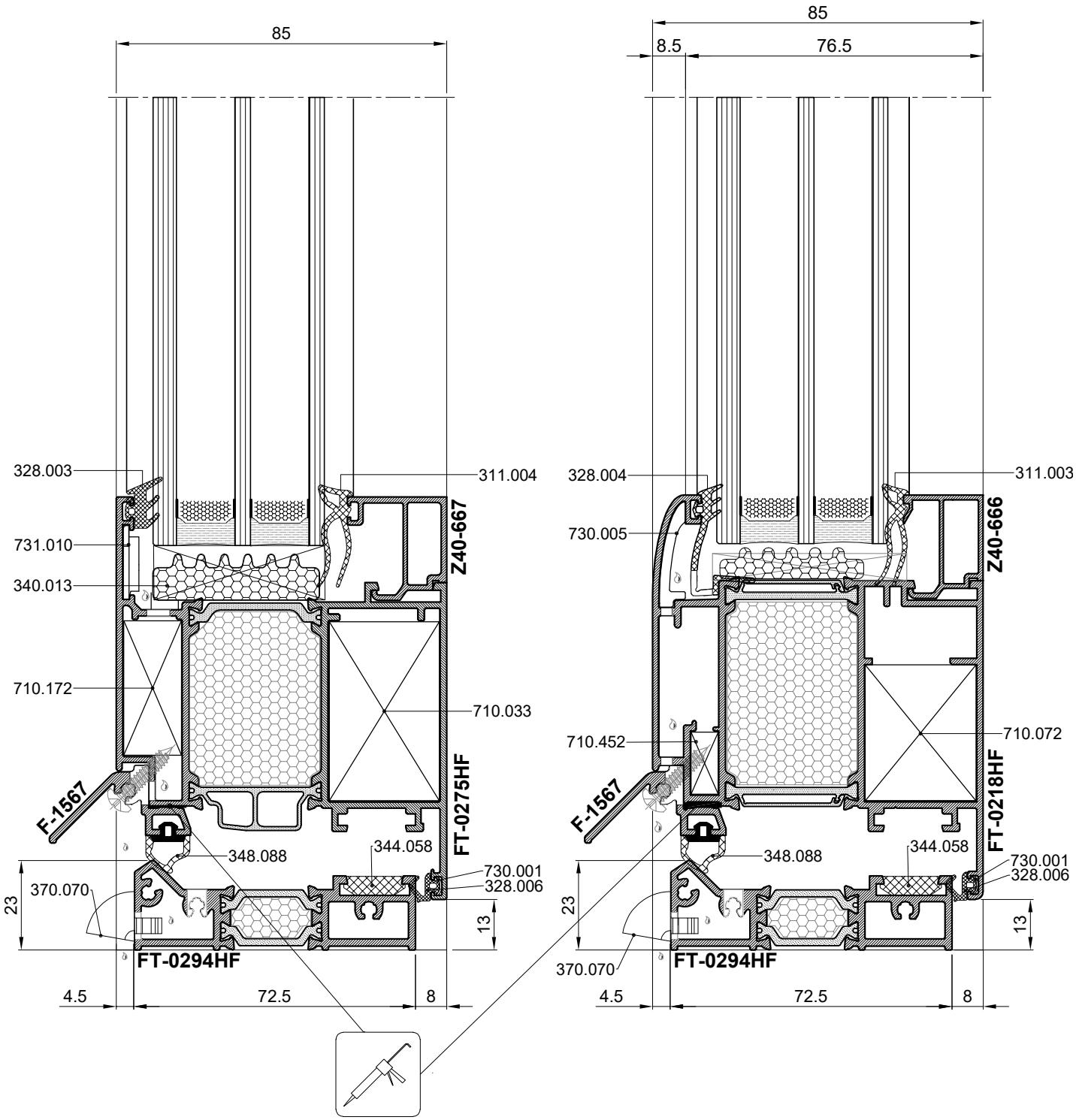




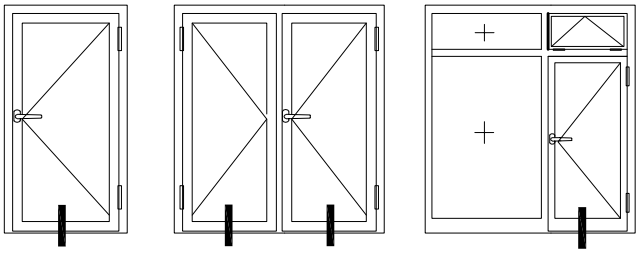
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

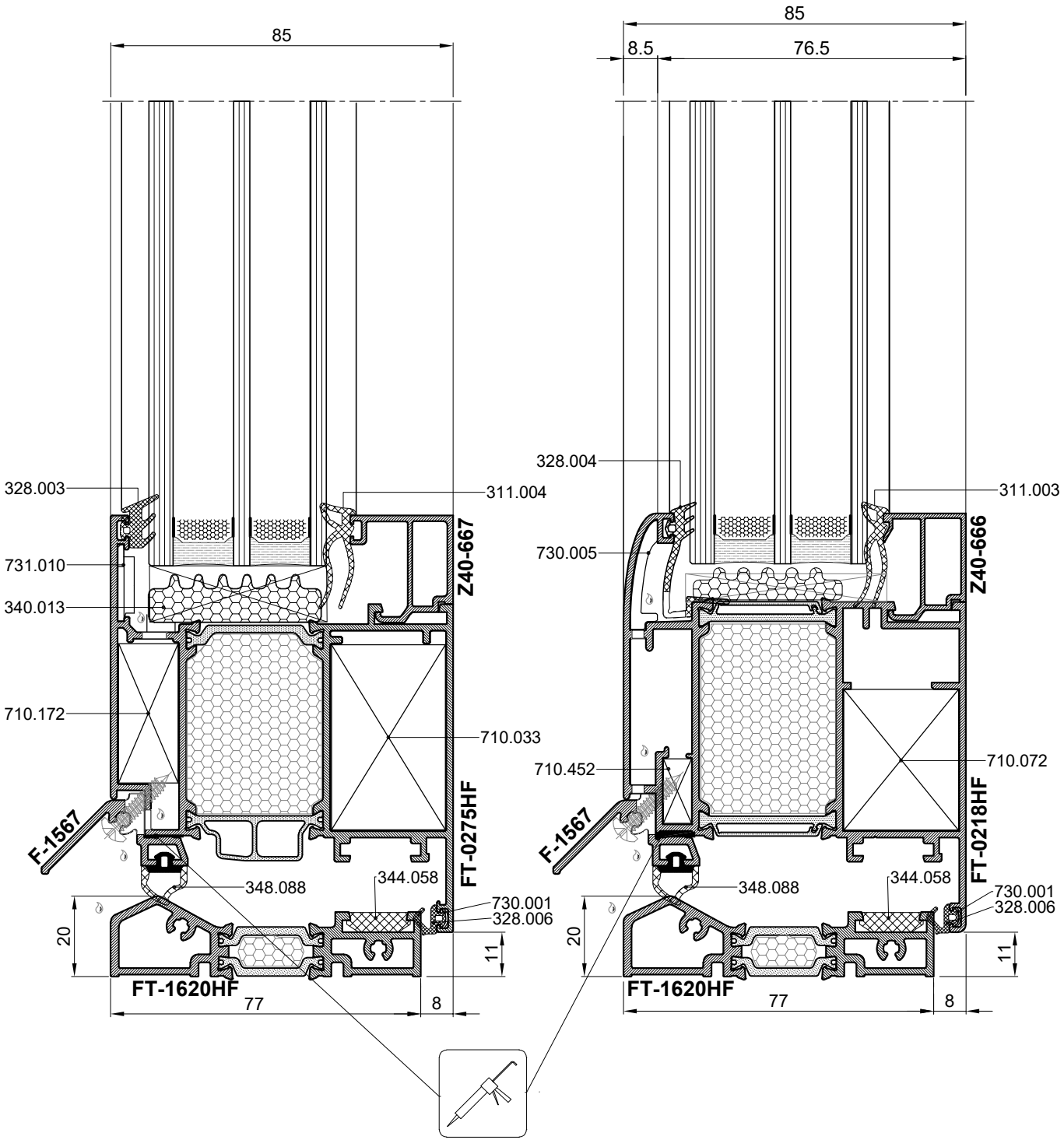
NAPOMENA:
Prag FT-0223HF se koristi samo gdje nisu potrebni zahtjevi za vodonepropusnost
REMARK:
The FT-0223HF threshold is only used where watertightness requirements are not required.



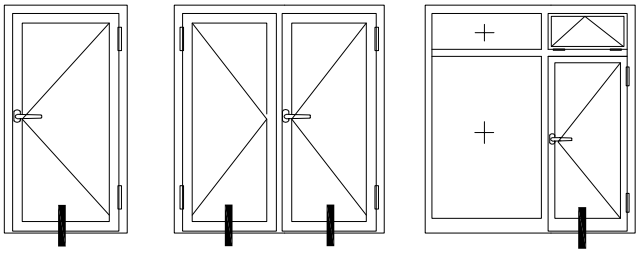


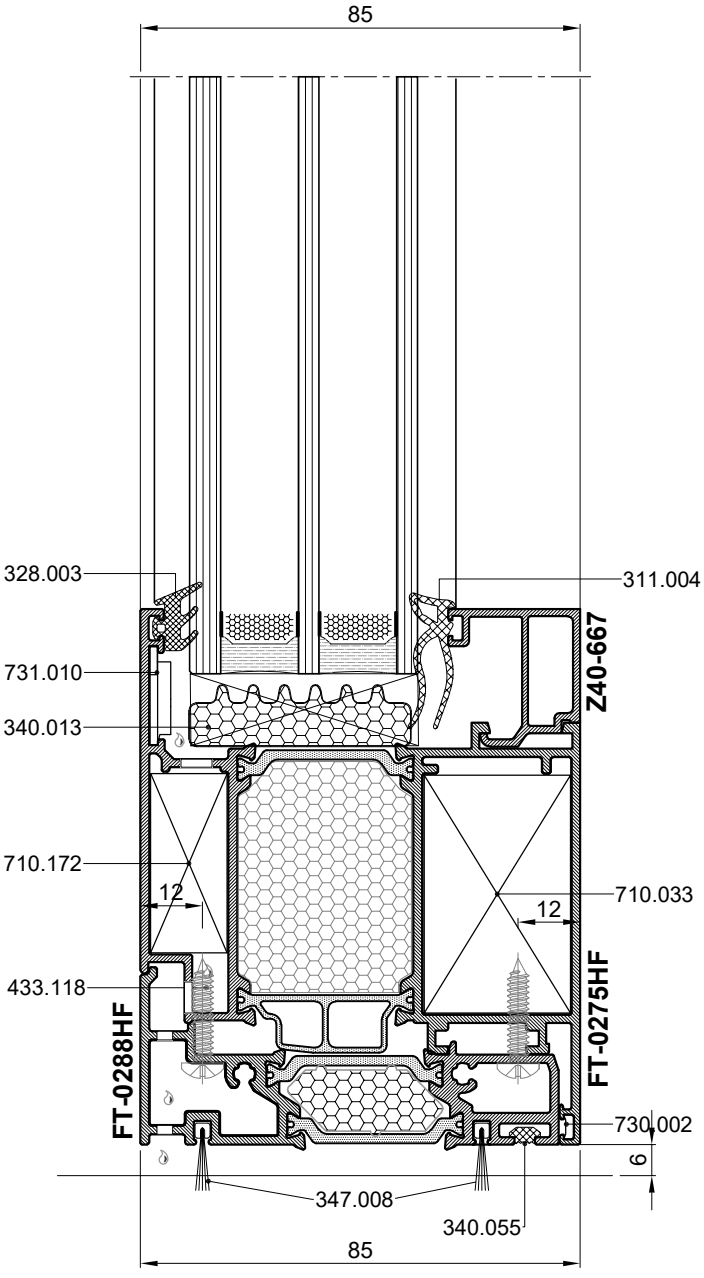
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

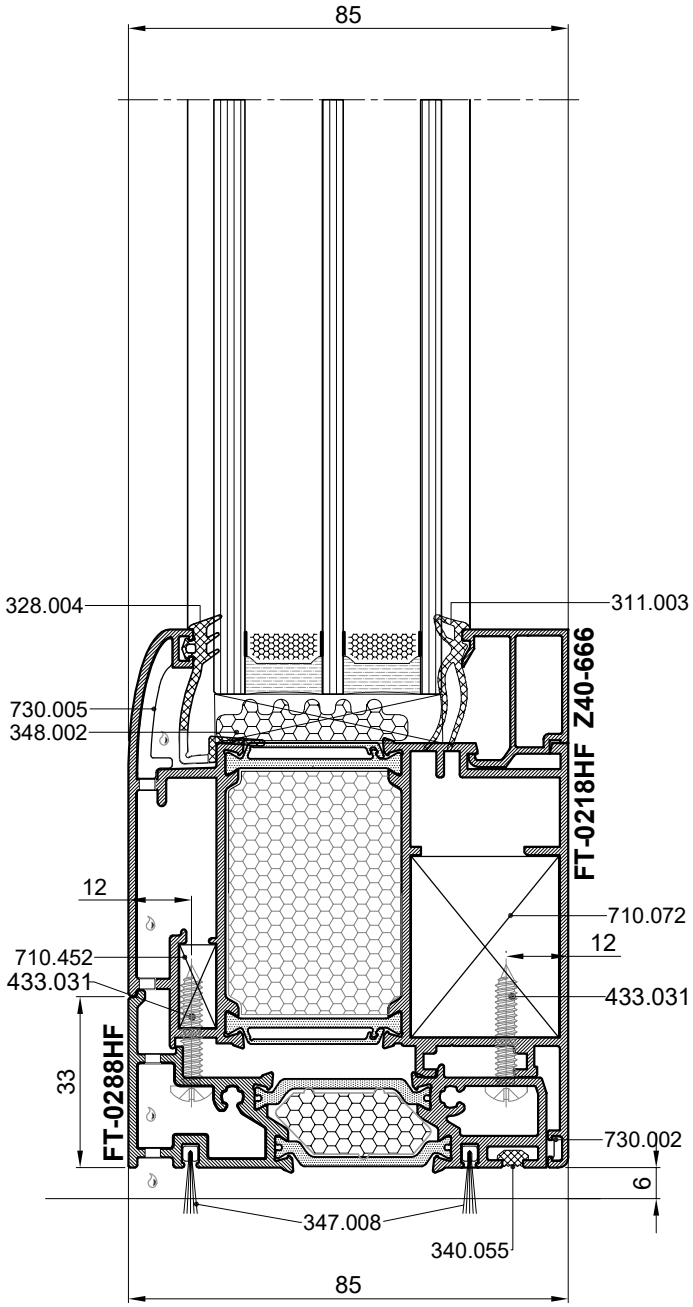


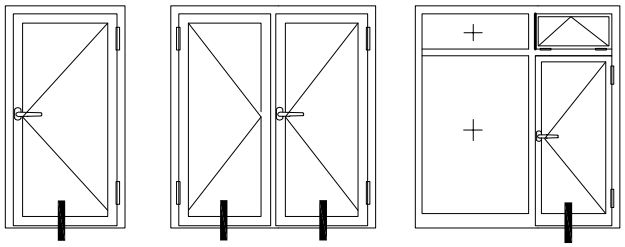


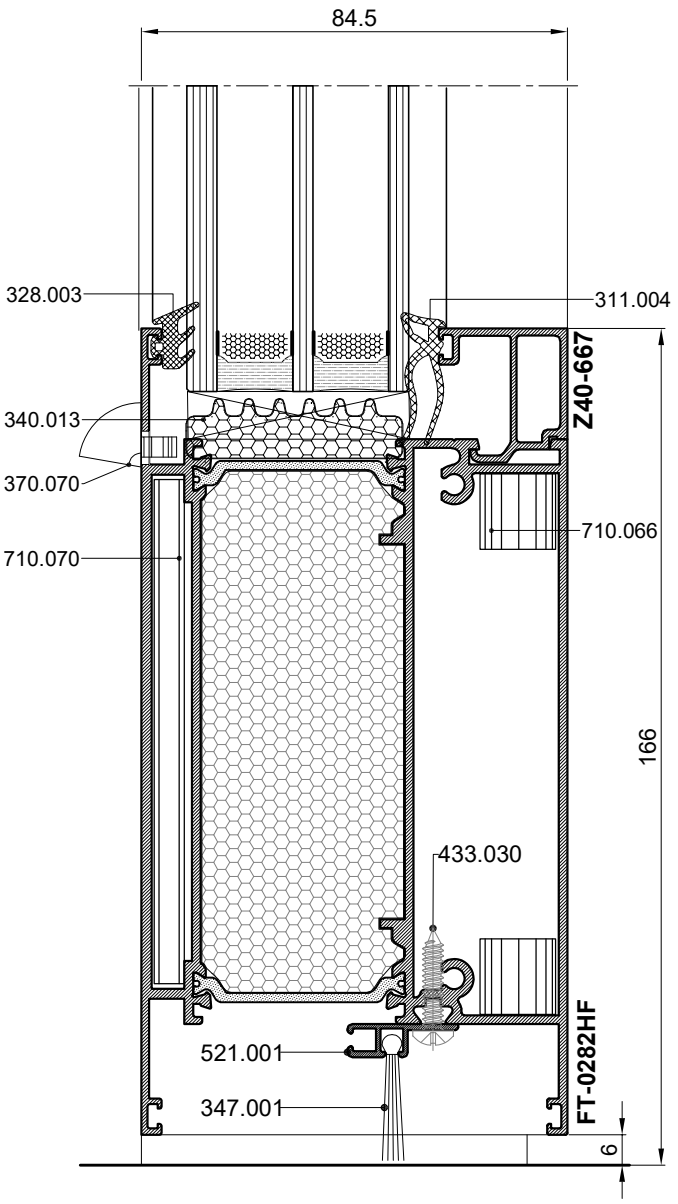
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

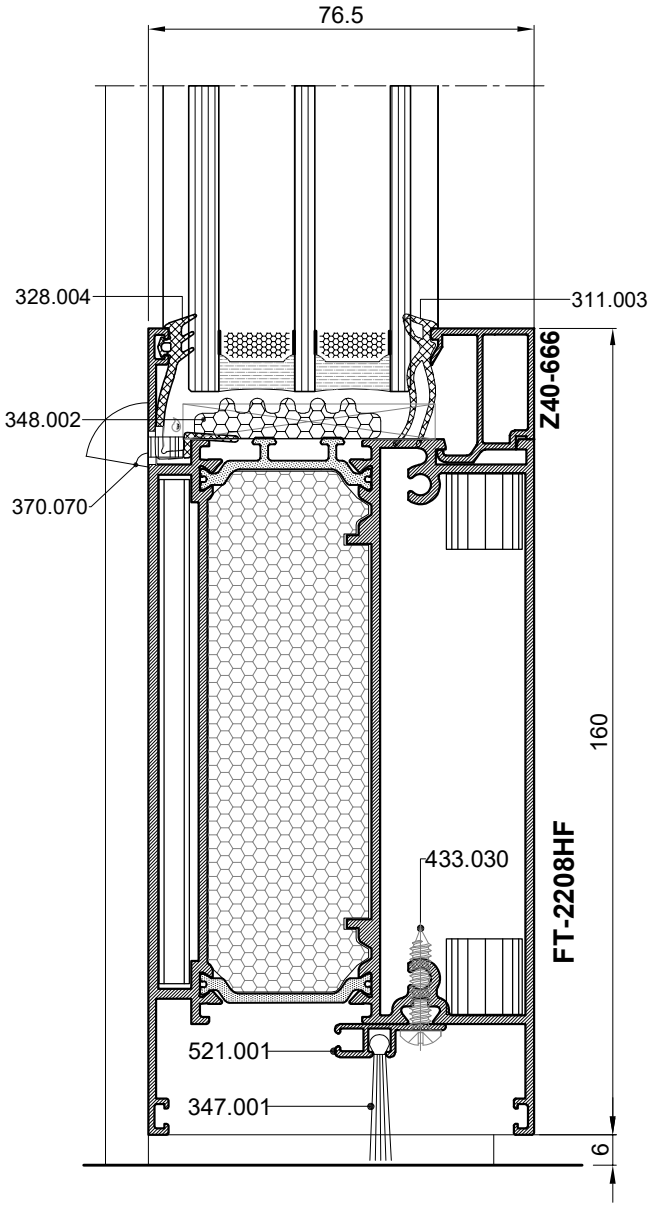


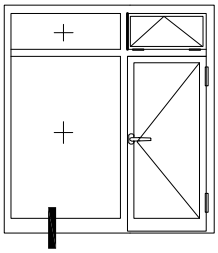

85
328.003
311.004
731.010
340.013
710.172
12
710.033
12
433.118
Z40-667
FT-0275HF
FT-0288HF
730.002
6
347.008
340.055
85

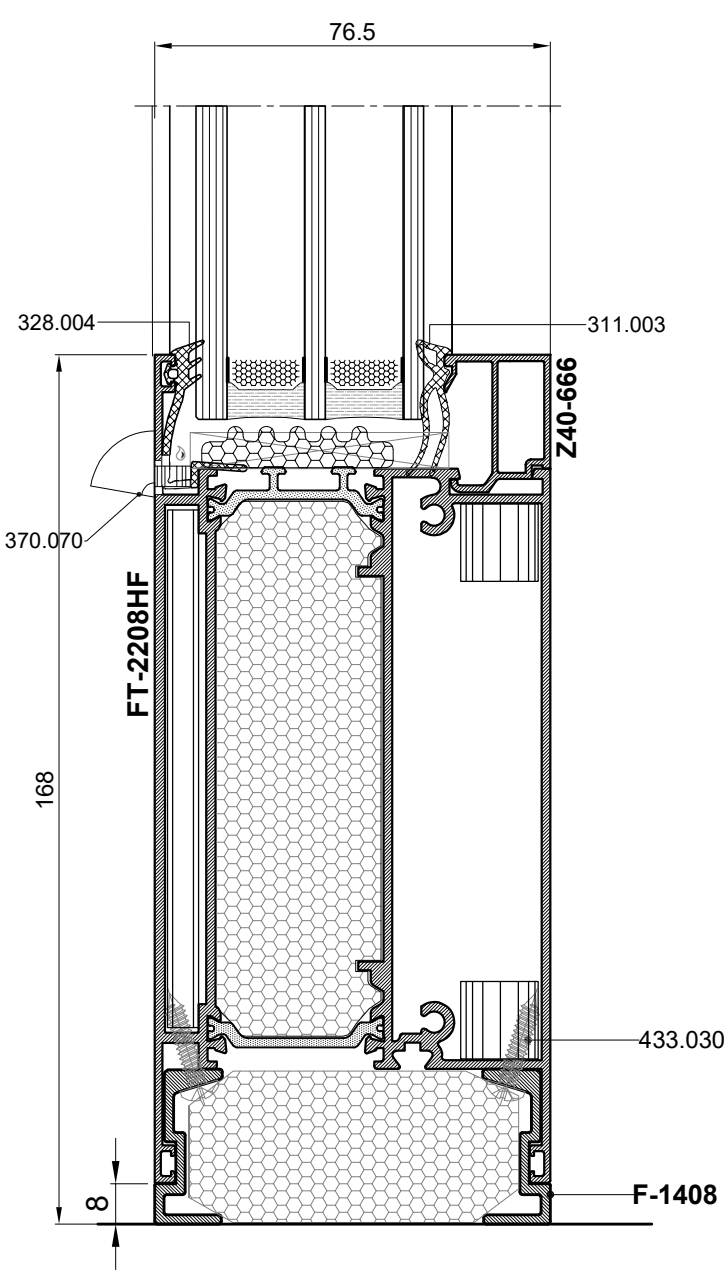

85
328.004
311.003
730.005
348.002
Z40-666
FT-0218HF
12
710.072
12
710.452
433.031
433.031
33
FT-0288HF
730.002
6
347.008
340.055
85

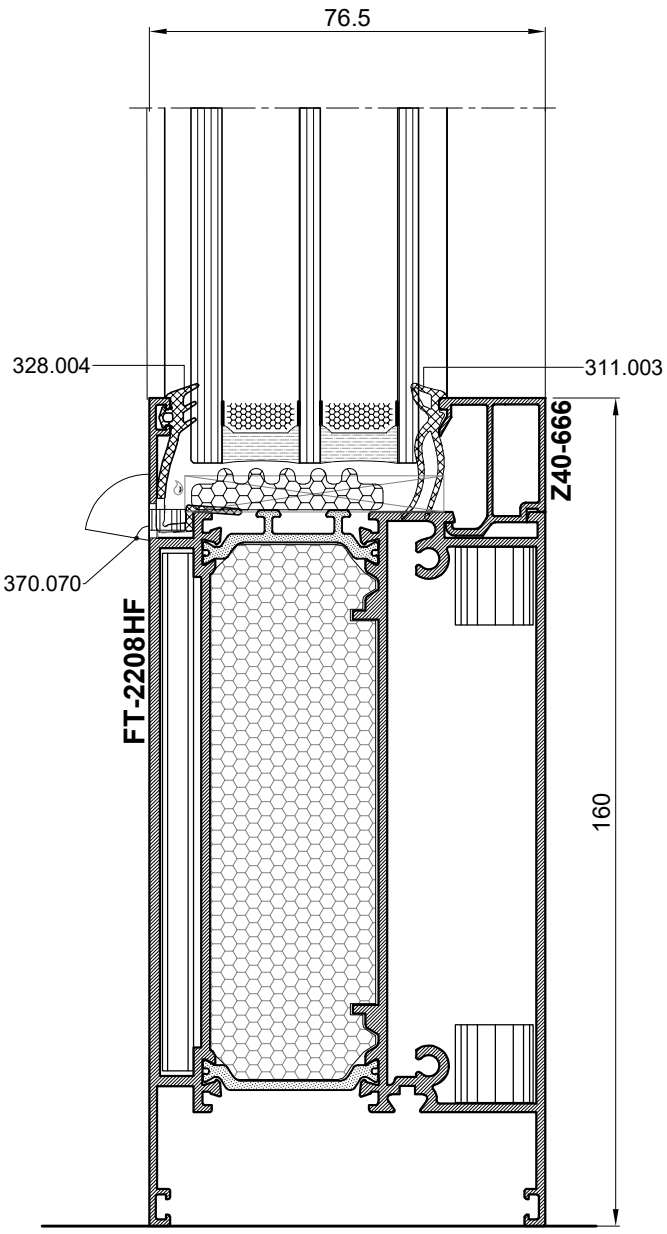


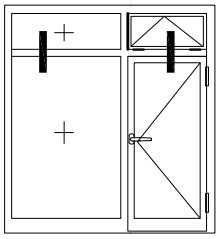

84.5
328.003
311.004
340.013
370.070
710.070
710.066
Z40-667
166
433.030
521.001
347.001
FT-0282HF
6

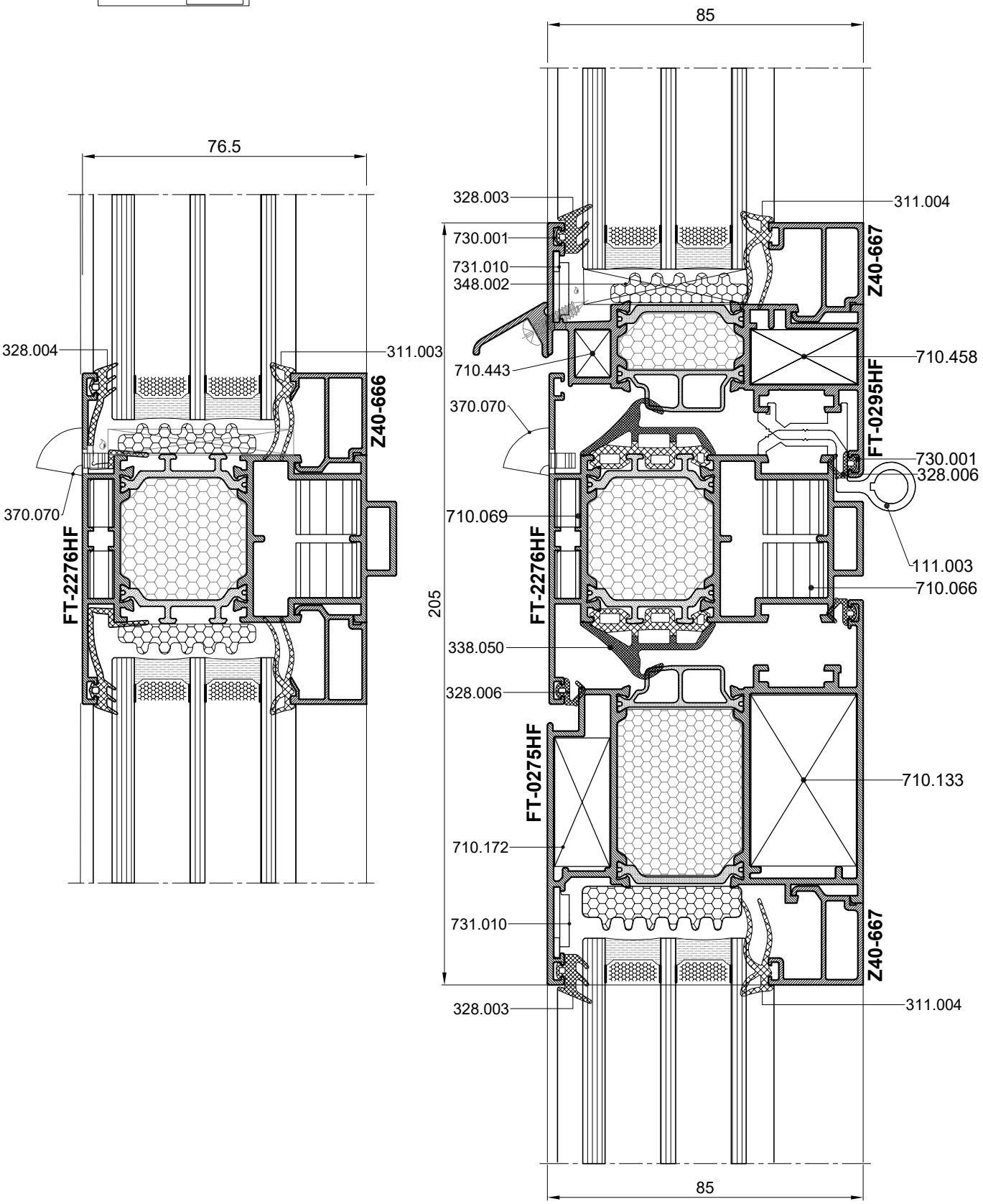

76.5
328.004
311.003
348.002
370.070
Z40-666
160
433.030
521.001
347.001
FT-2208HF
6

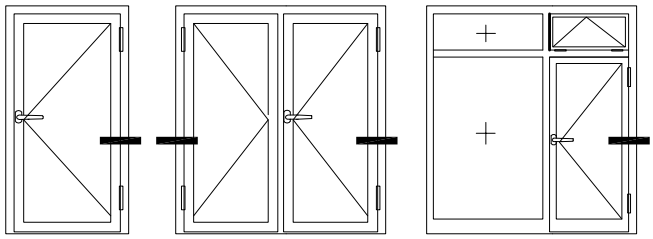


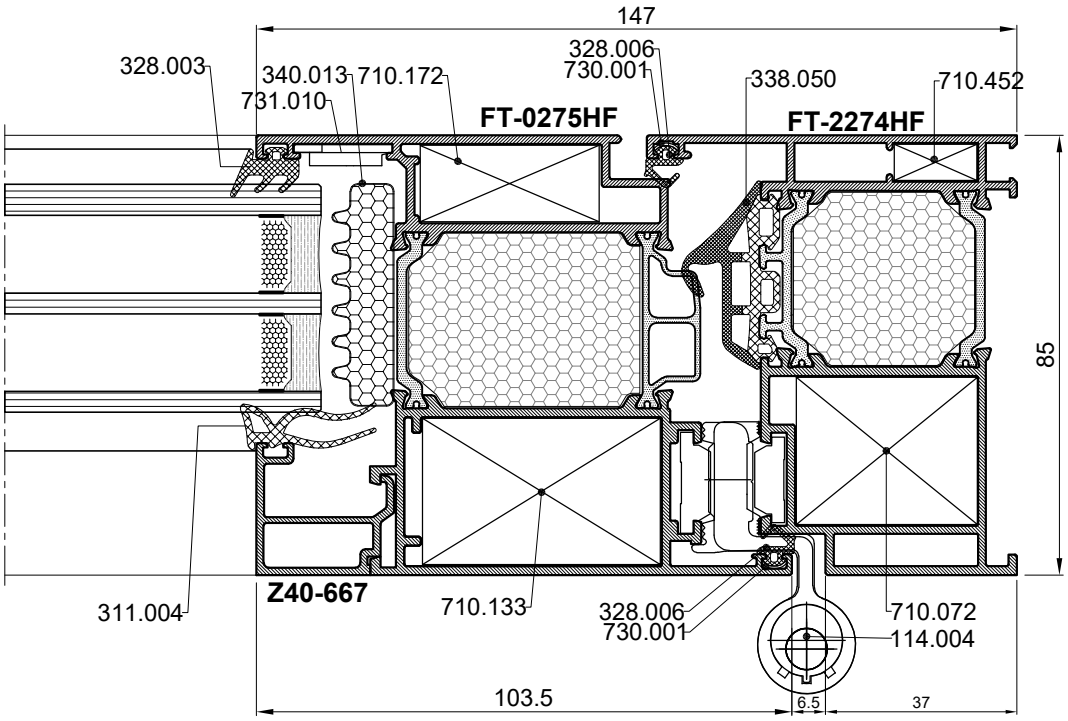

76.5
328.004
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Z40-666
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FT-2208HF
168
433.030
8
F-1408

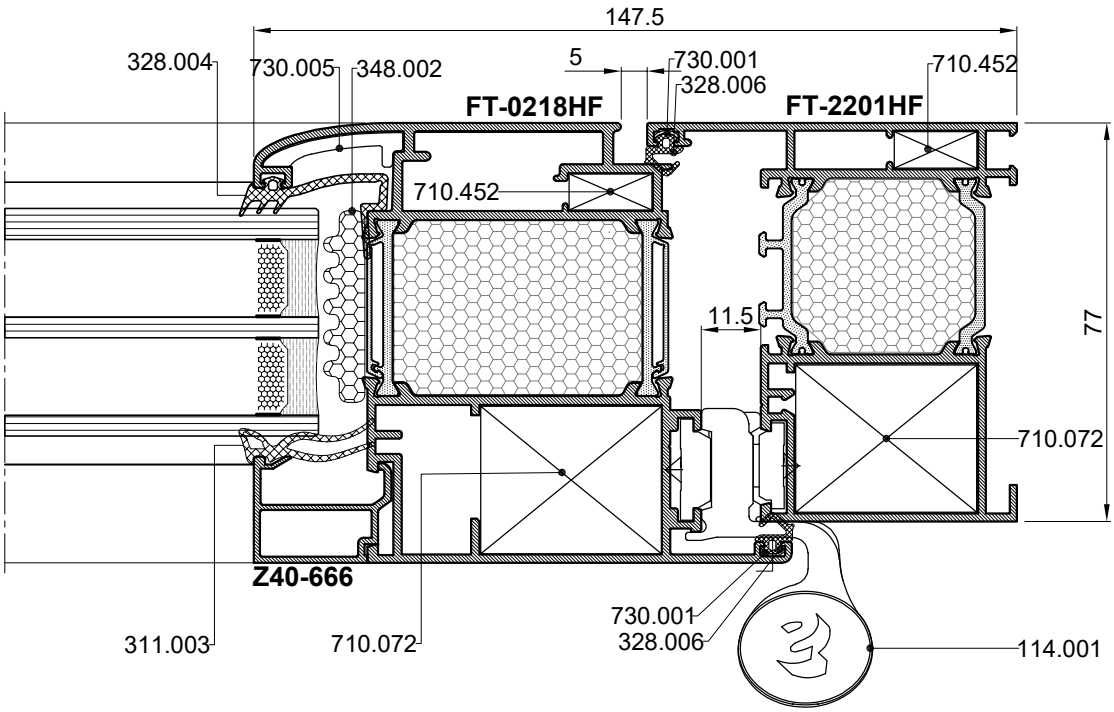

76.5
328.004
311.003
Z40-666
370.070
FT-2208HF
160

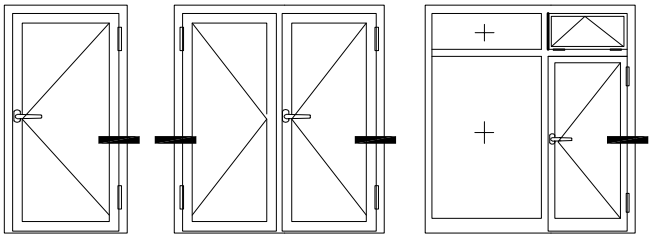


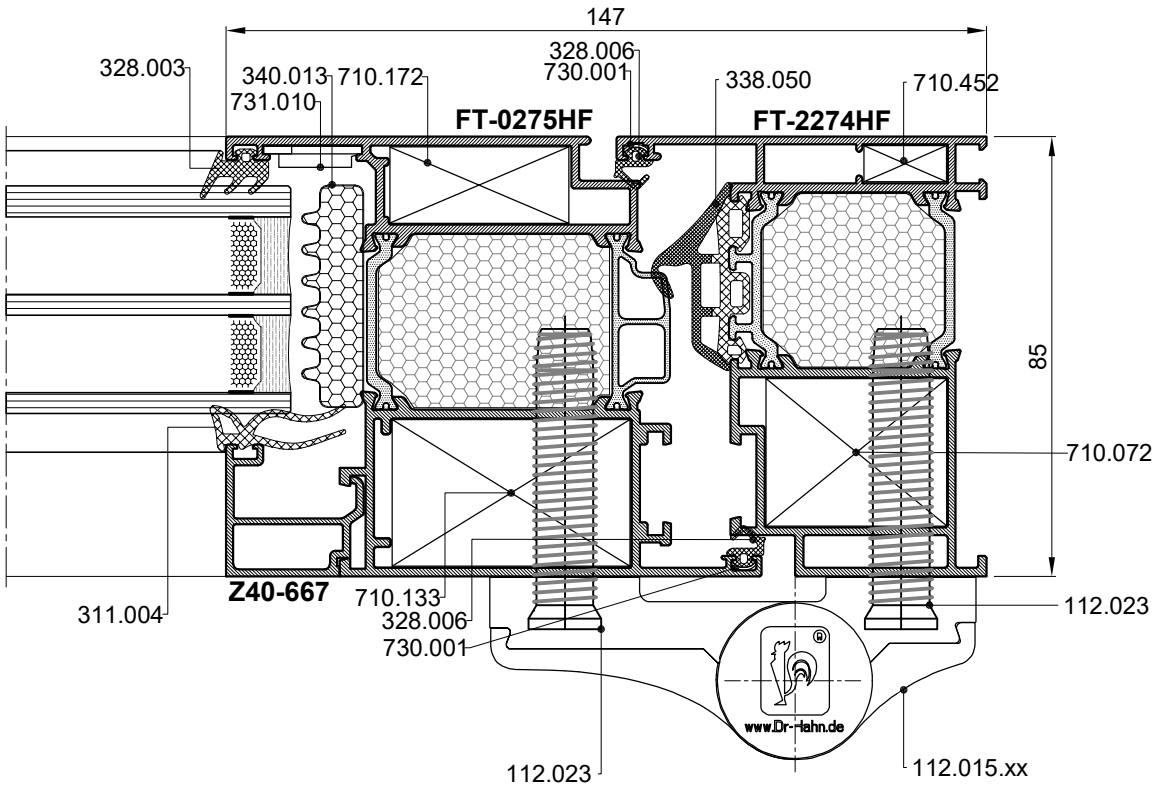

85
76.5
328.003
311.004
730.001
731.010
348.002
Z40-667
328.004
311.003
710.443
710.458
370.070
FT-0295HF
730.001
328.006
Z40-666
370.070
710.069
111.003
FT-2276HF
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328.006
FT-0275HF
710.133
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731.010
Z40-667
328.003
311.004
85

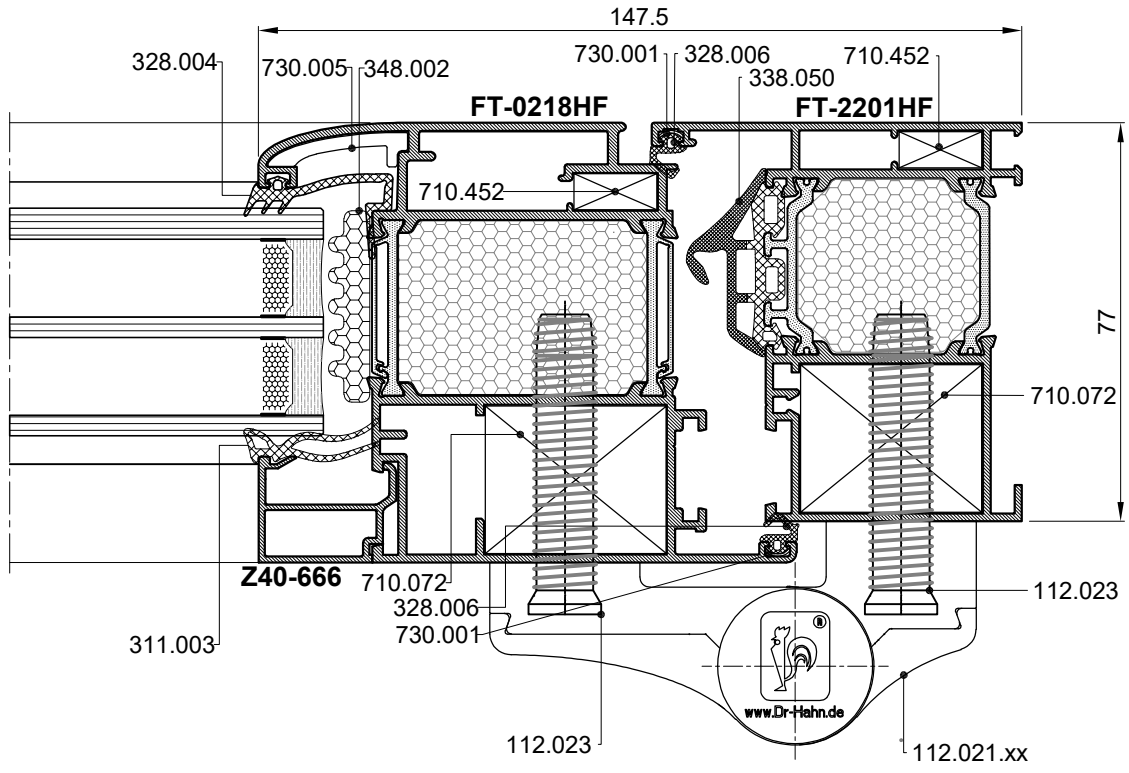


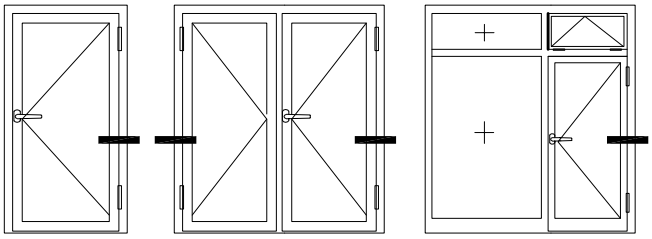

147
328.003
340.013
731.010
710.172
328.006
730.001
338.050
710.452
FT-0275HF
FT-2274HF
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311.004
Z40-667
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328.006
730.001
710.072
114.004
103.5
6.5
37

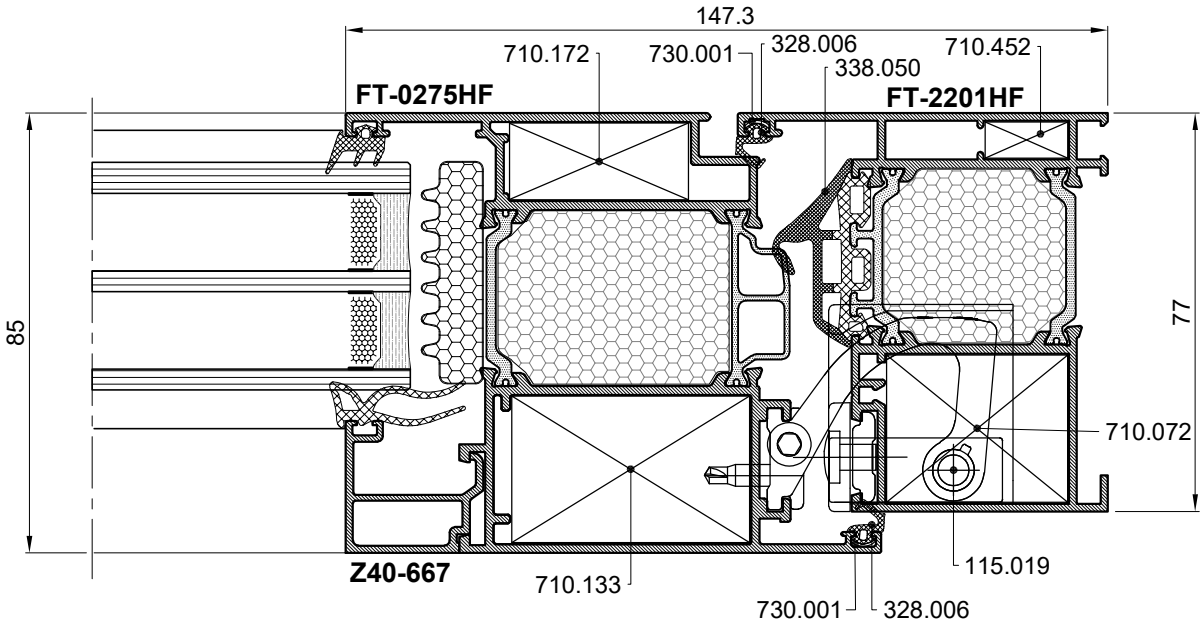

147.5
328.004
730.005
348.002
5
730.001
328.006
710.452
FT-0218HF
FT-2201HF
710.452
11.5
77
710.072
Z40-666
311.003
710.072
730.001
328.006
114.001

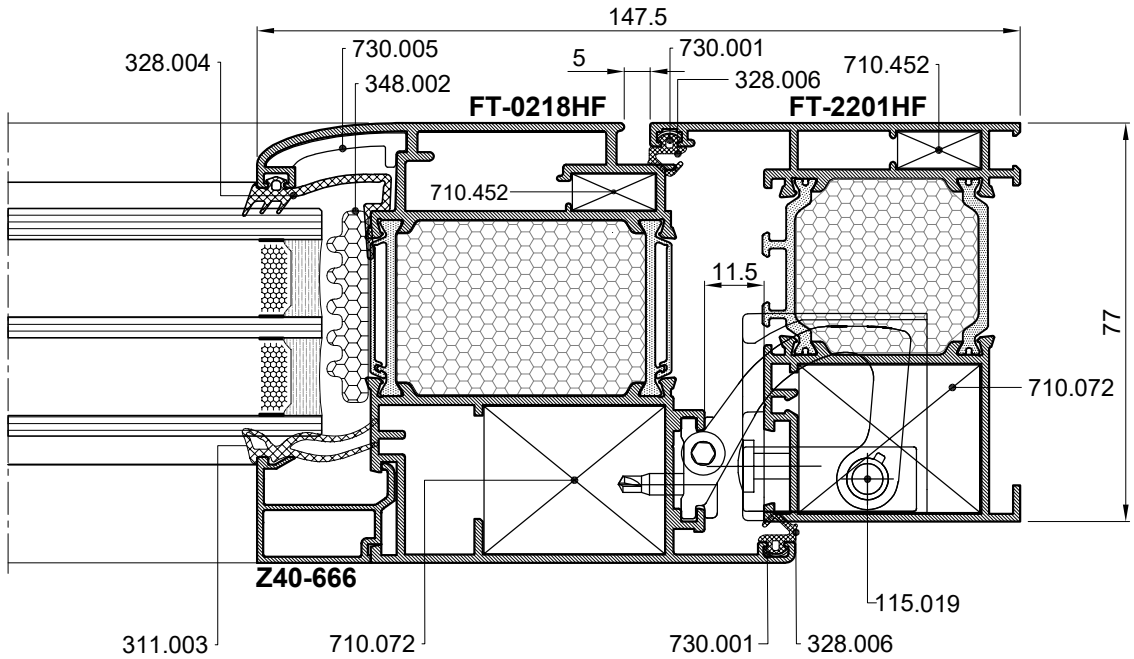



147
328.003
340.013
710.172
731.010
328.006
730.001
338.050
710.452
FT-0275HF
FT-2274HF
85
710.072
311.004
Z40-667
710.133
328.006
730.001
112.023
112.023
112.015.xx
www.Dr-Hahn.de


147.5
328.004
730.005
348.002
730.001
328.006
338.050
710.452
FT-0218HF
FT-2201HF
710.452
77
710.072
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112.023
112.023
112.021.xx
www.Dr-Hahn.de

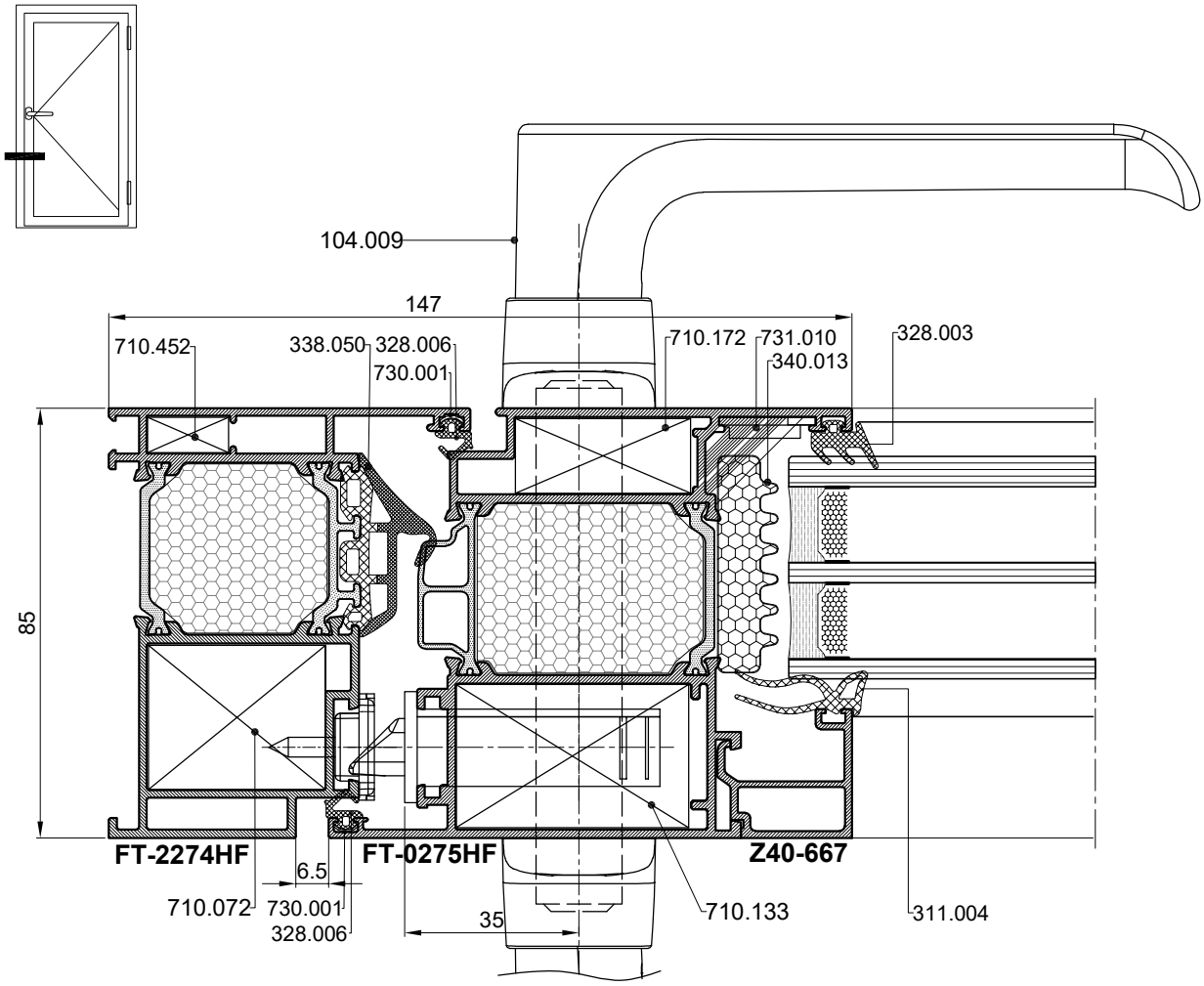


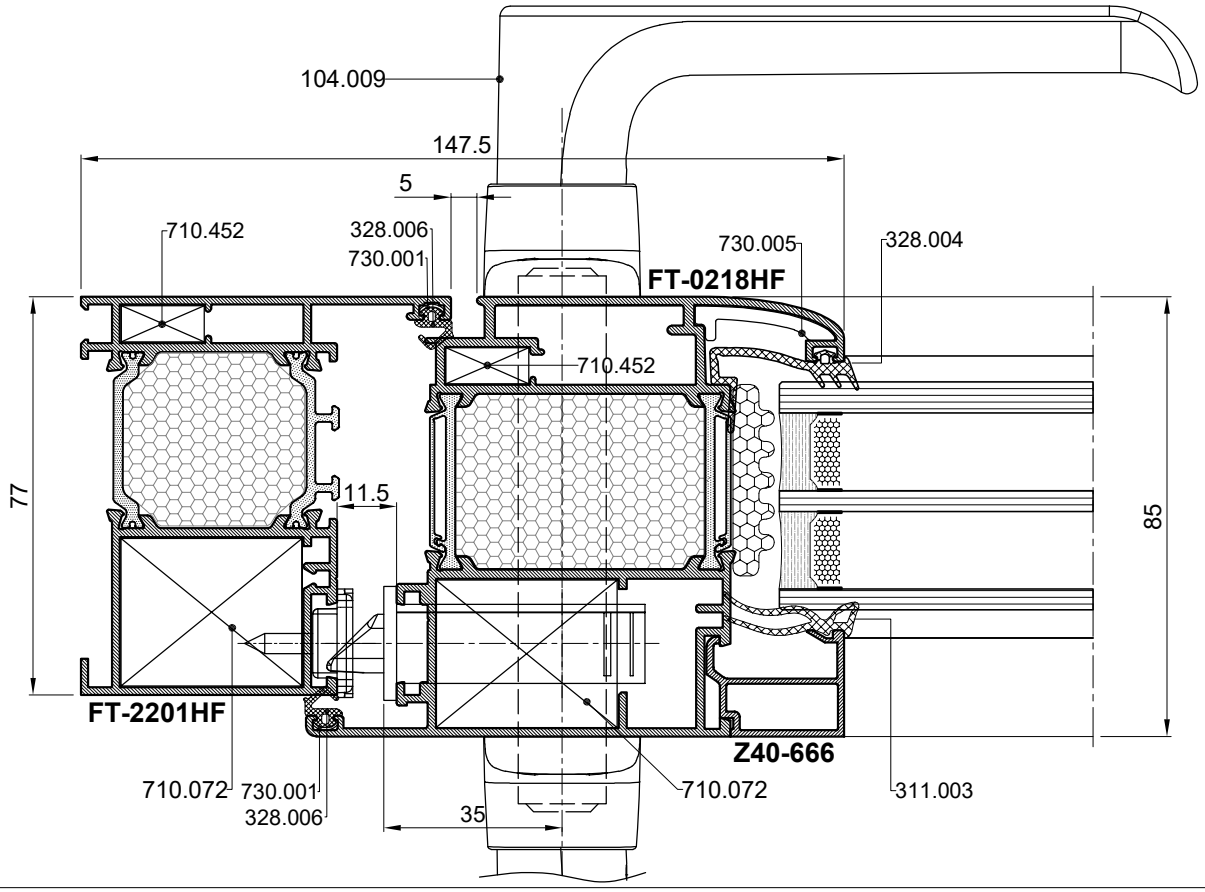


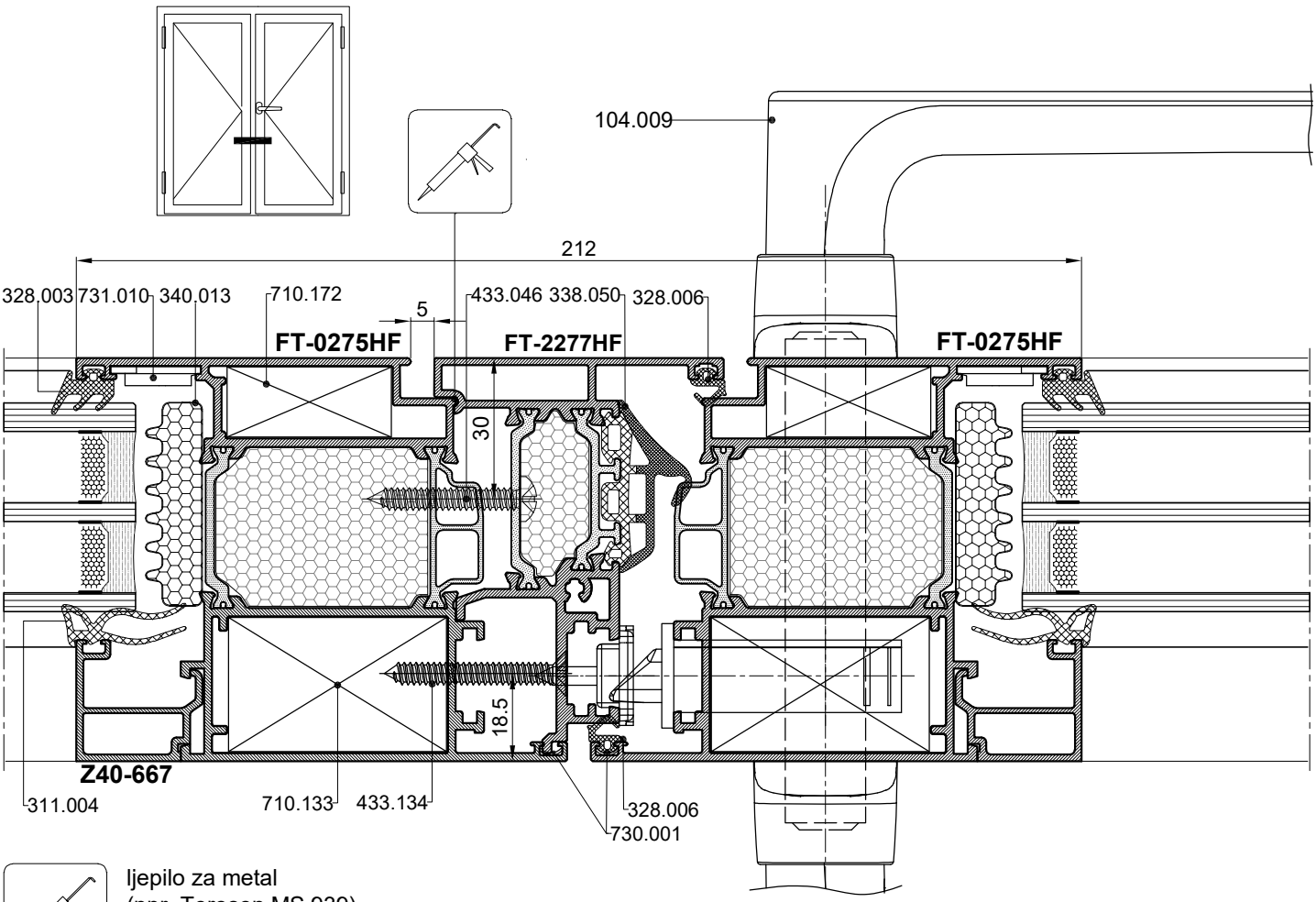


NAPOMENA:
Skrivena šarka 115.019 se može koristiti samo u slučaju kad krilo i ram nisu u istoj ravnini, odnosno kad su u preklopu

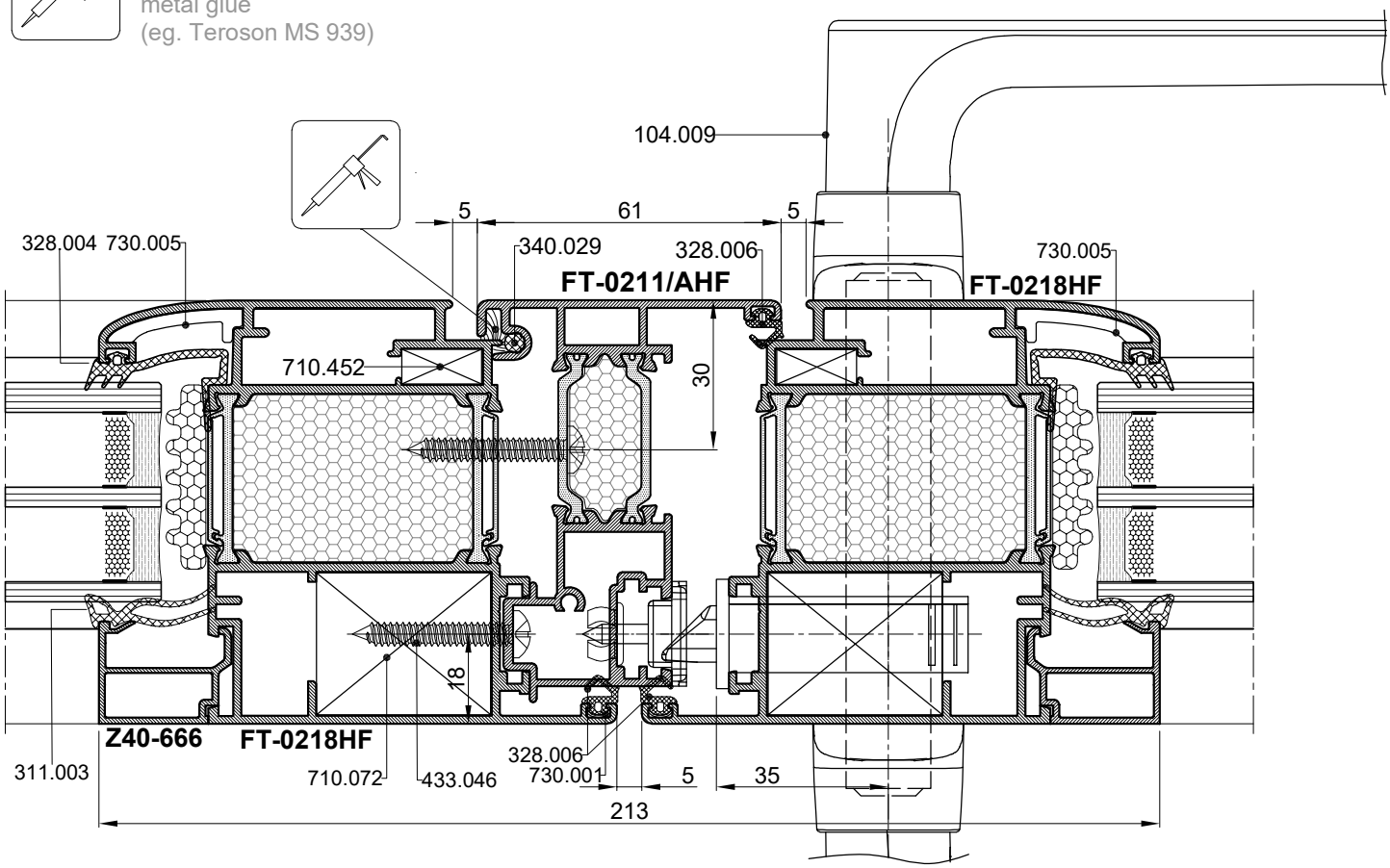
REMARK:
Concealed hinges 115.019 can only be used when the sash and frame are not in the same plane, i.e. when they overlap

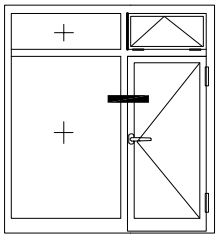

104.009
147
710.452
338.050
328.006
730.001
710.172
731.010
340.013
328.003
85
FT-2274HF
6.5
FT-0275HF
Z40-667
710.072
730.001
328.006
35
710.133
311.004

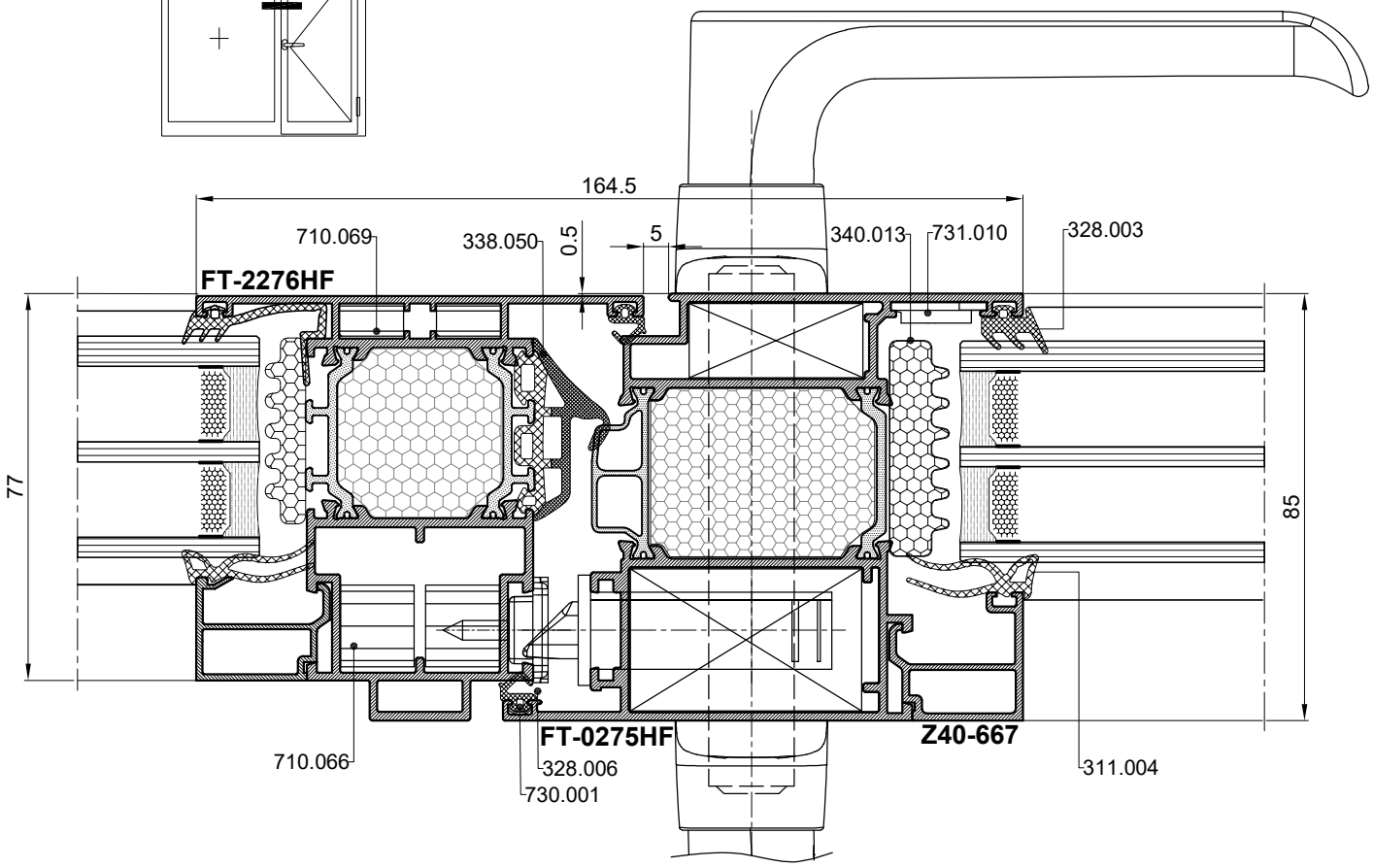

104.009
147.5
5
710.452
328.006
730.001
730.005
328.004
FT-0218HF
710.452
77
11.5
85
FT-2201HF
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730.001
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35
710.072
311.003

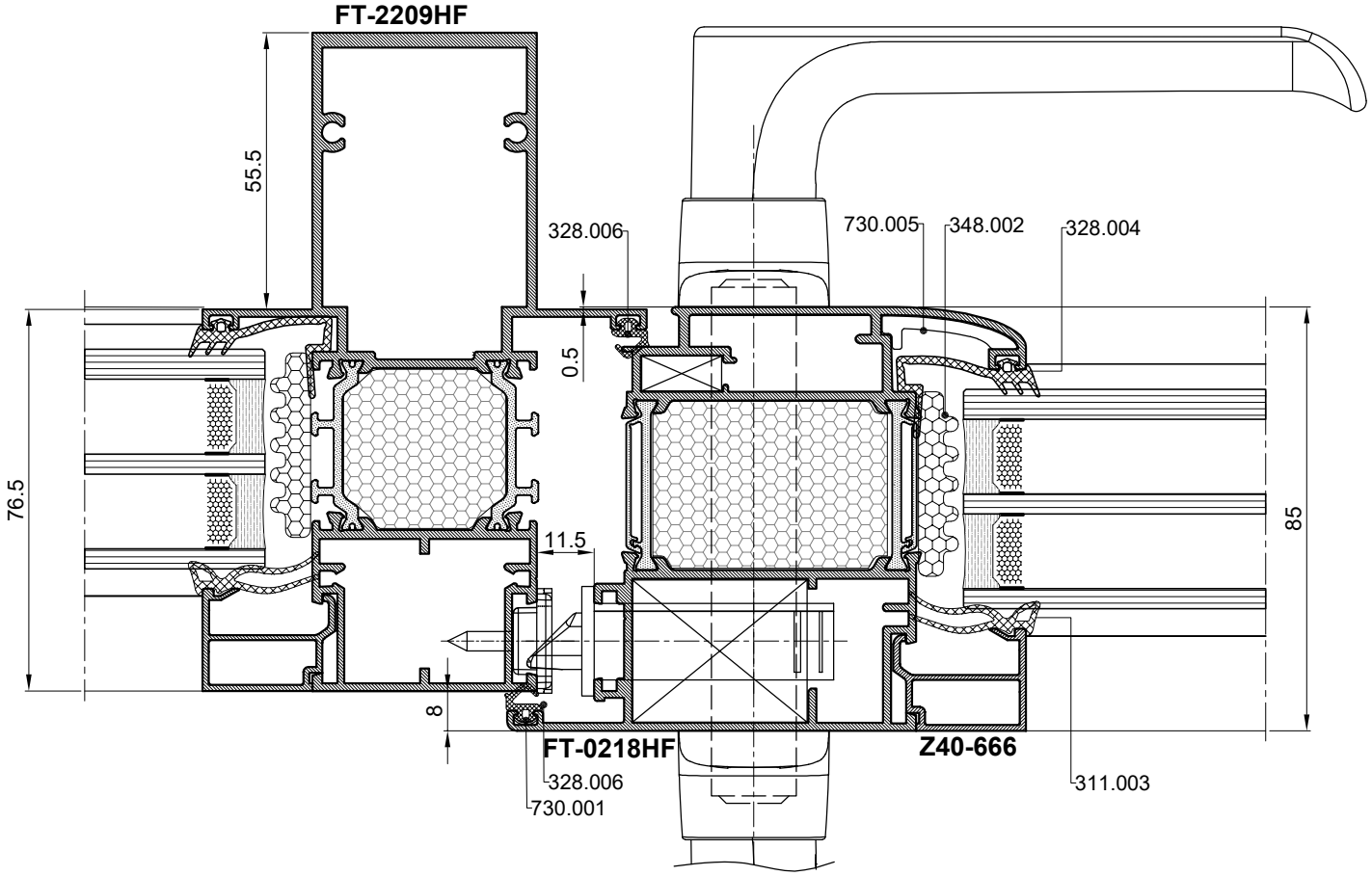


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

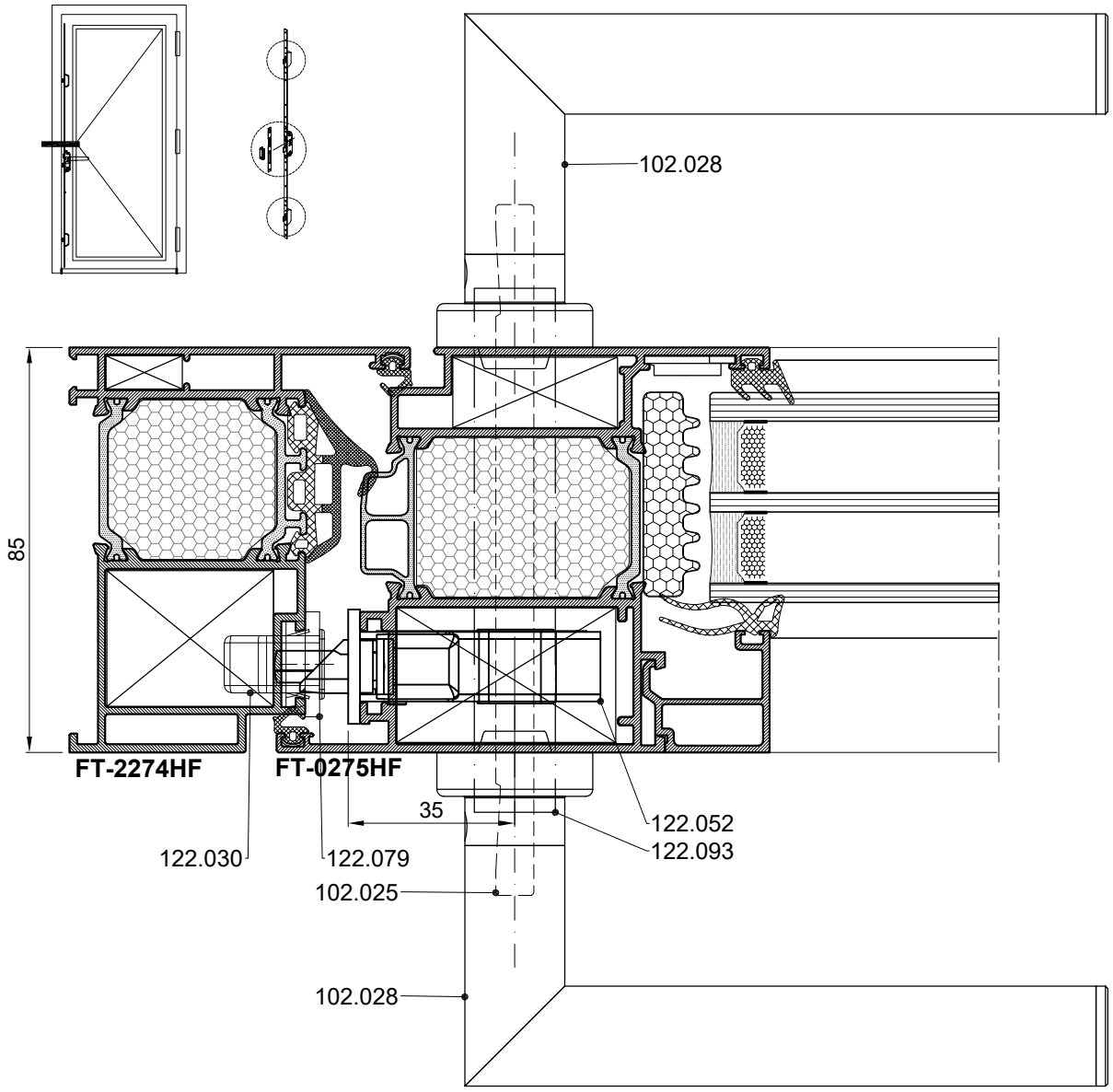


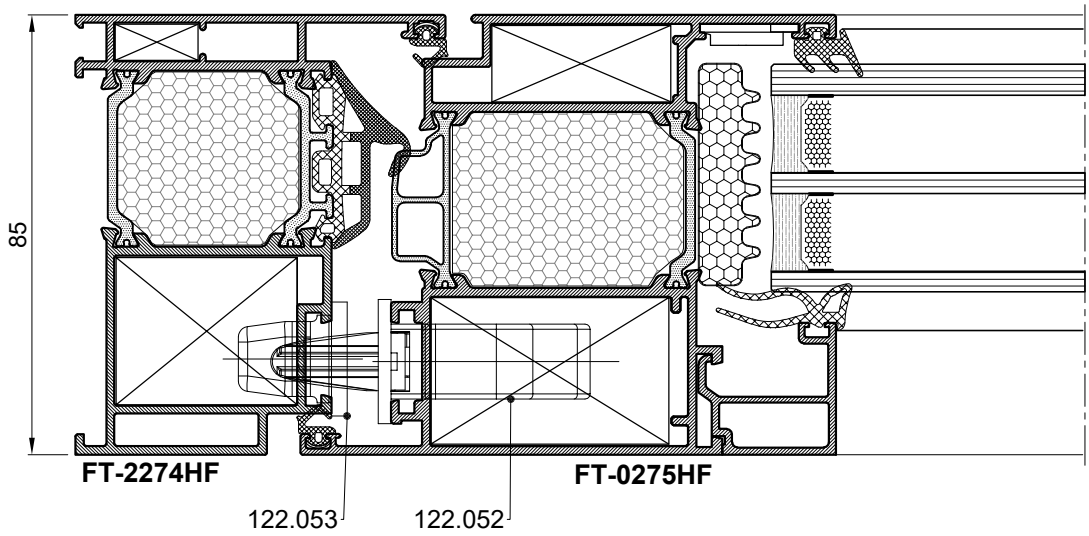



164.5
710.069
338.050
0.5
5
340.013
731.010
328.003
FT-2276HF
77
85
710.066
FT-0275HF
328.006
730.001
Z40-667
311.004

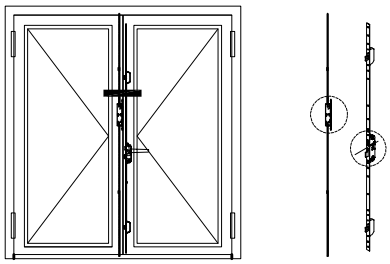

FT-2209HF
55.5
328.006
730.005
348.002
328.004
0.5
76.5
85
11.5
8
FT-0218HF
328.006
730.001
Z40-666
311.003

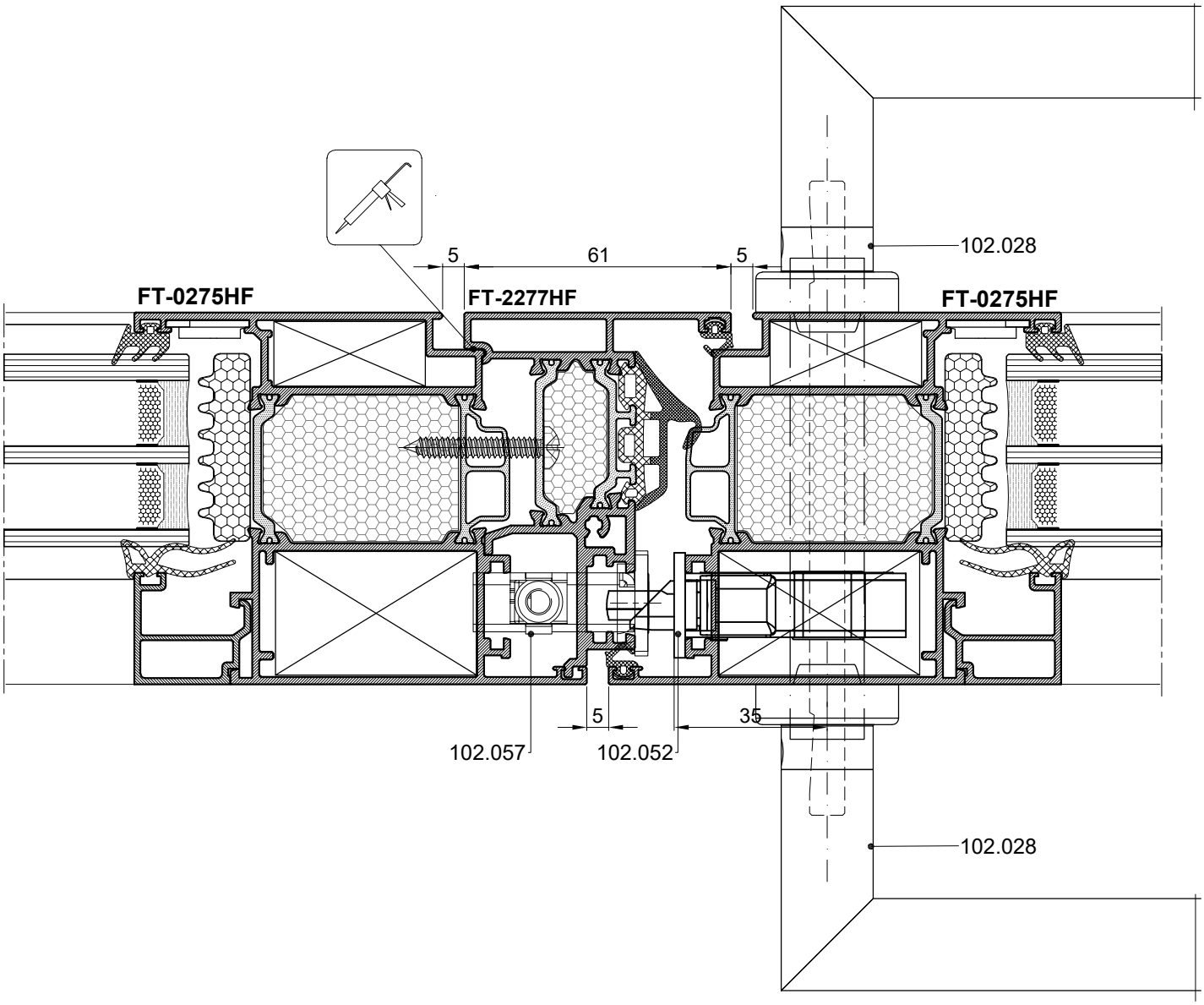
VRATA SA SIG.BRAVOM 35 mm-MR2 (GU)
DOOR WITH SIG.LOCK 35 mm-MR2 (GU)



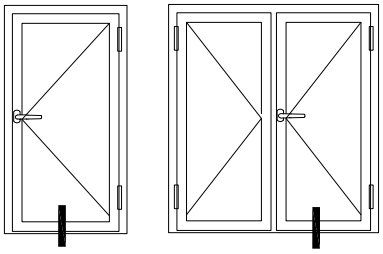


VRATA SA SIG.BRAVOM 35 mm-MR2 (GU)
DOOR WITH SIG.LOCK 35 mm-MR2 (GU)

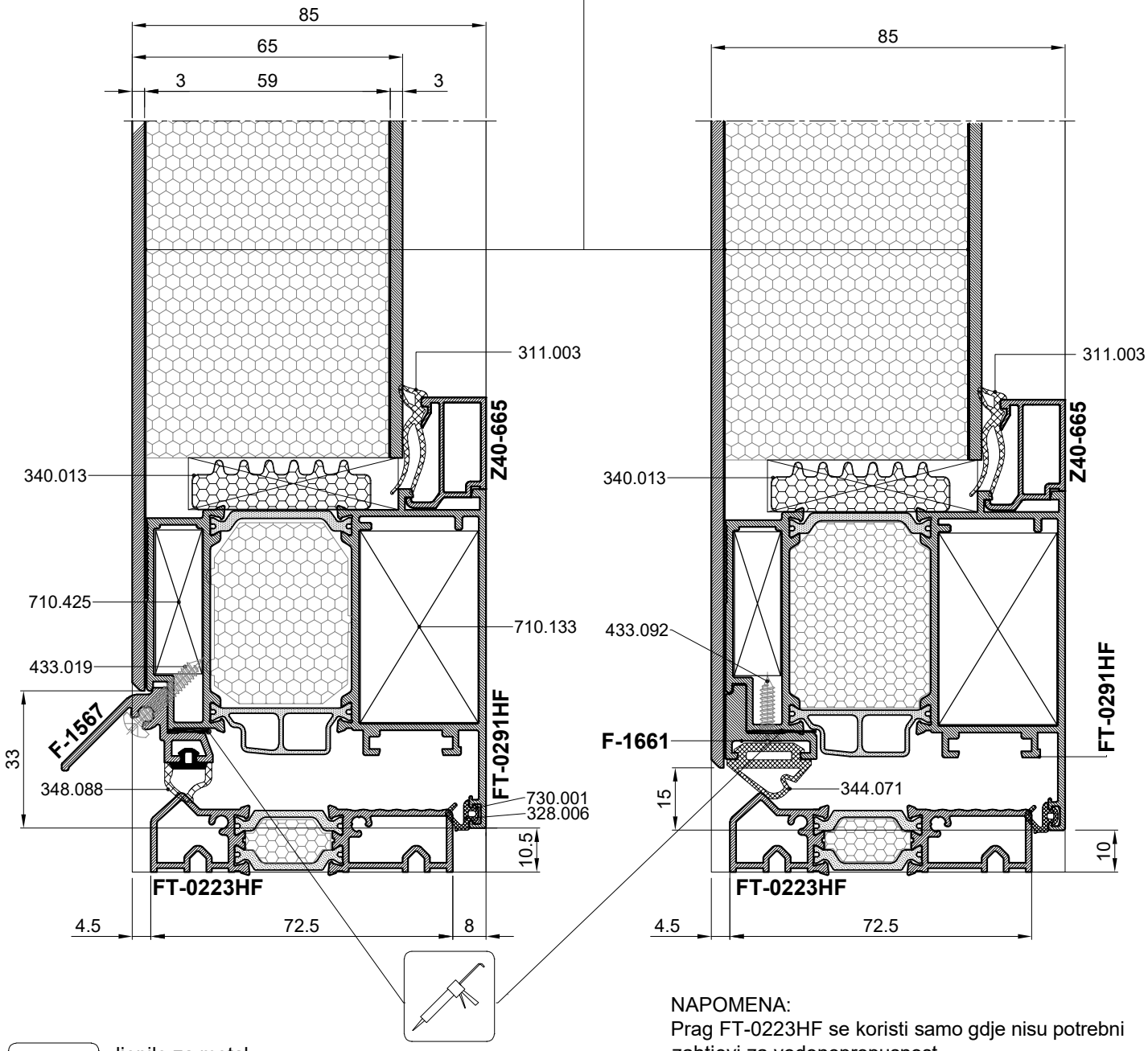




ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

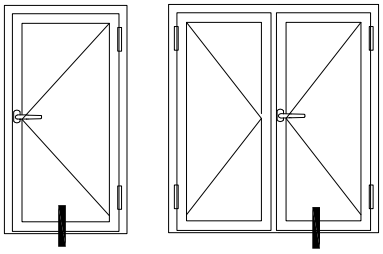


Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002

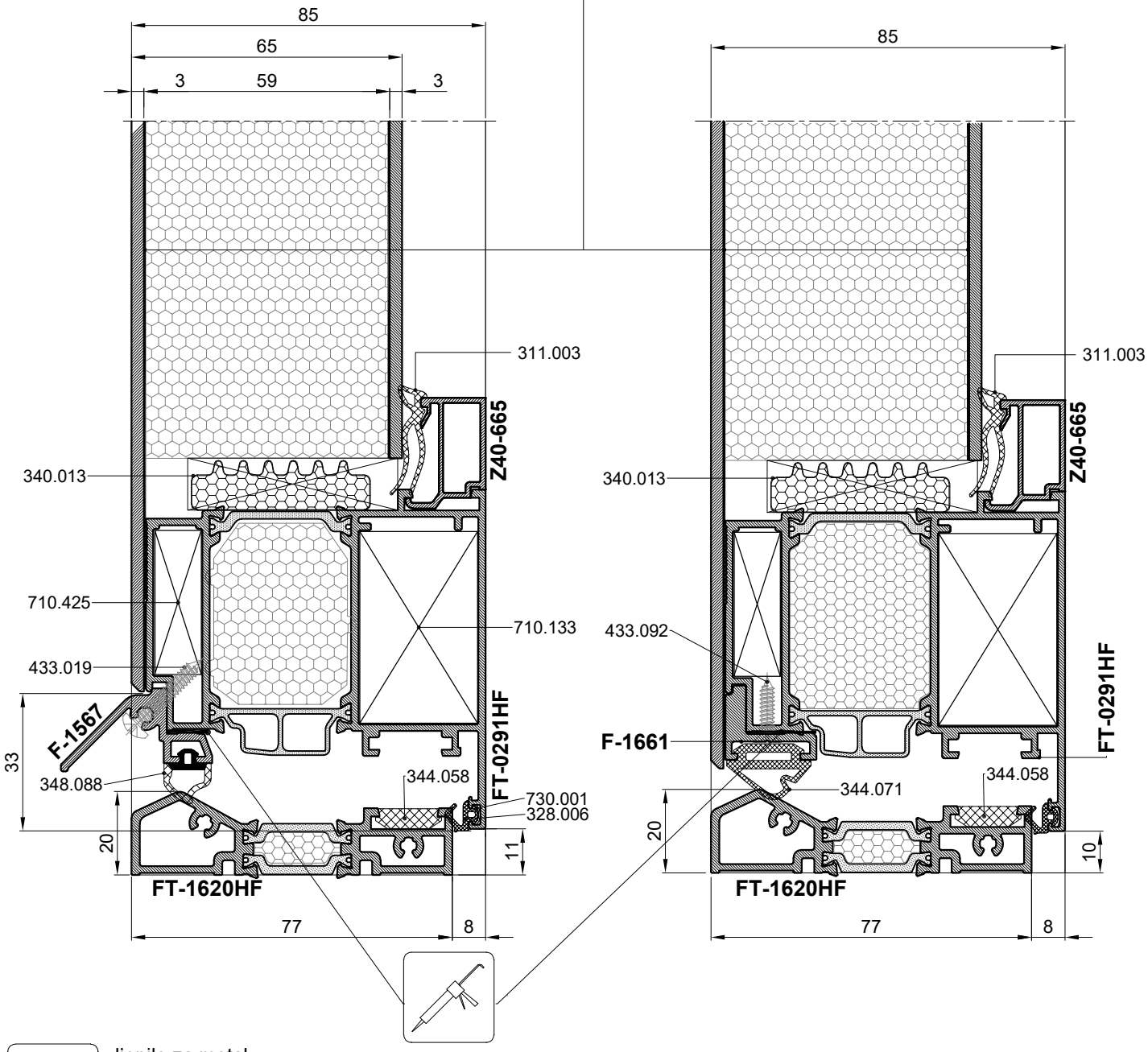


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

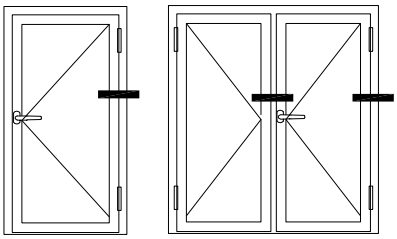
NAPOMENA:
Prag FT-0223HF se koristi samo gdje nisu potrebni zahtjevi za vodonepropusnost
REMARK:
The FT-0223HF threshold is only used where watertightness requirements are not required.

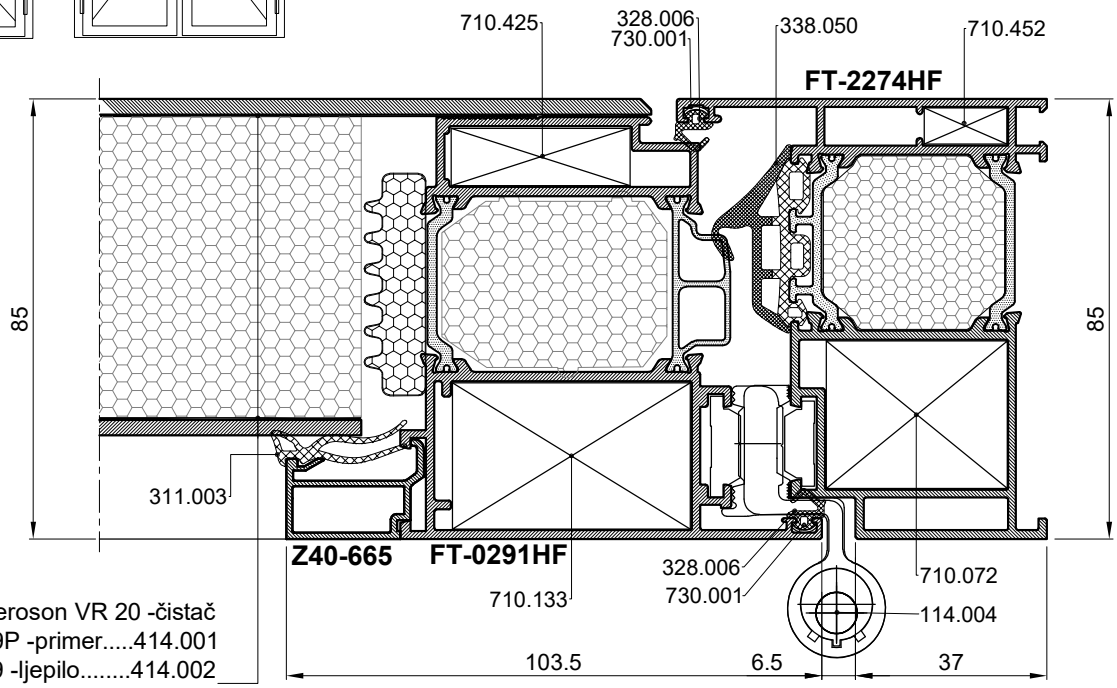


Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002

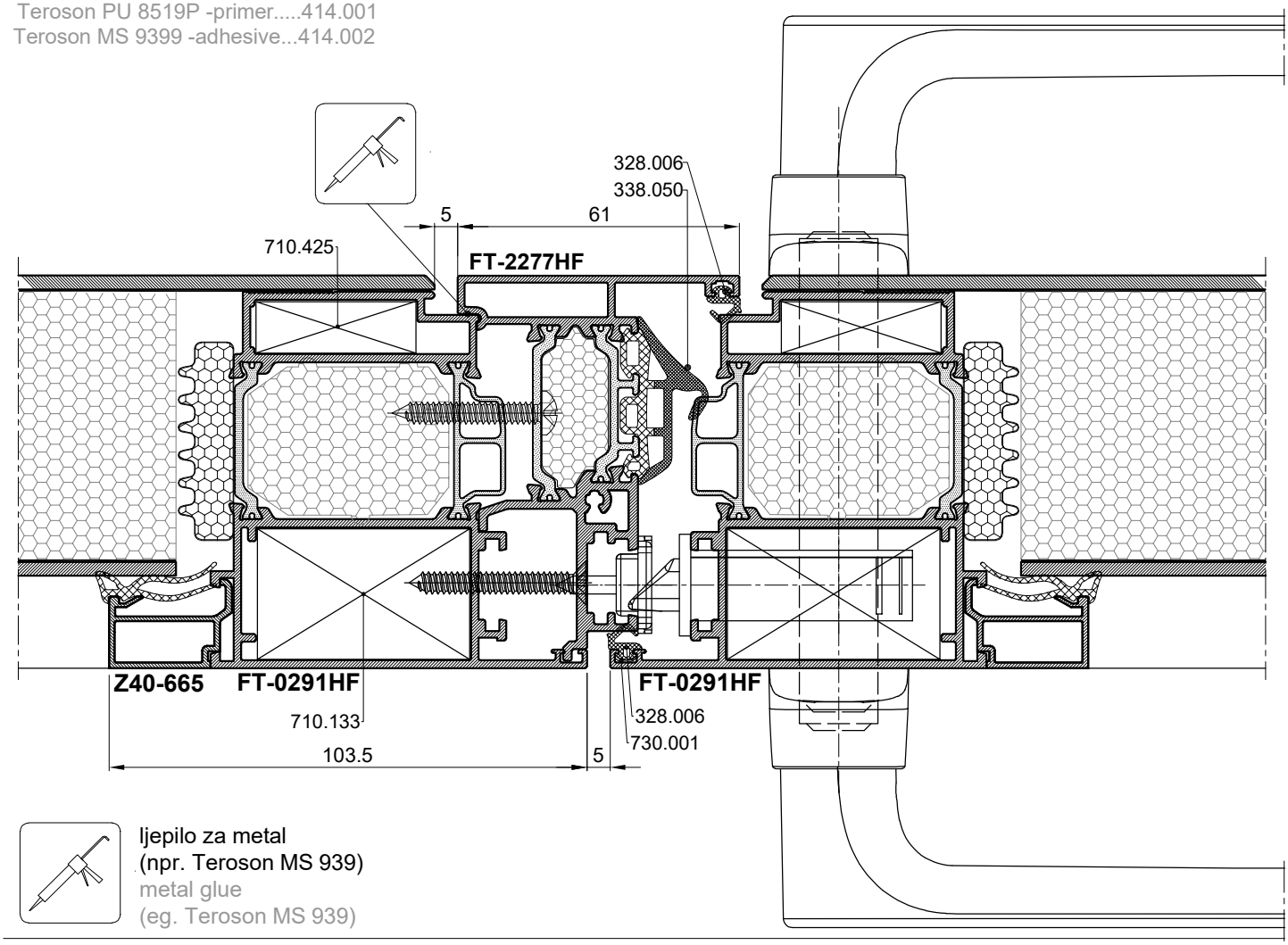


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

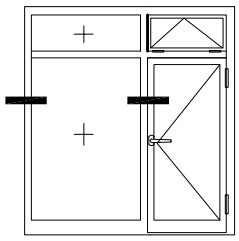


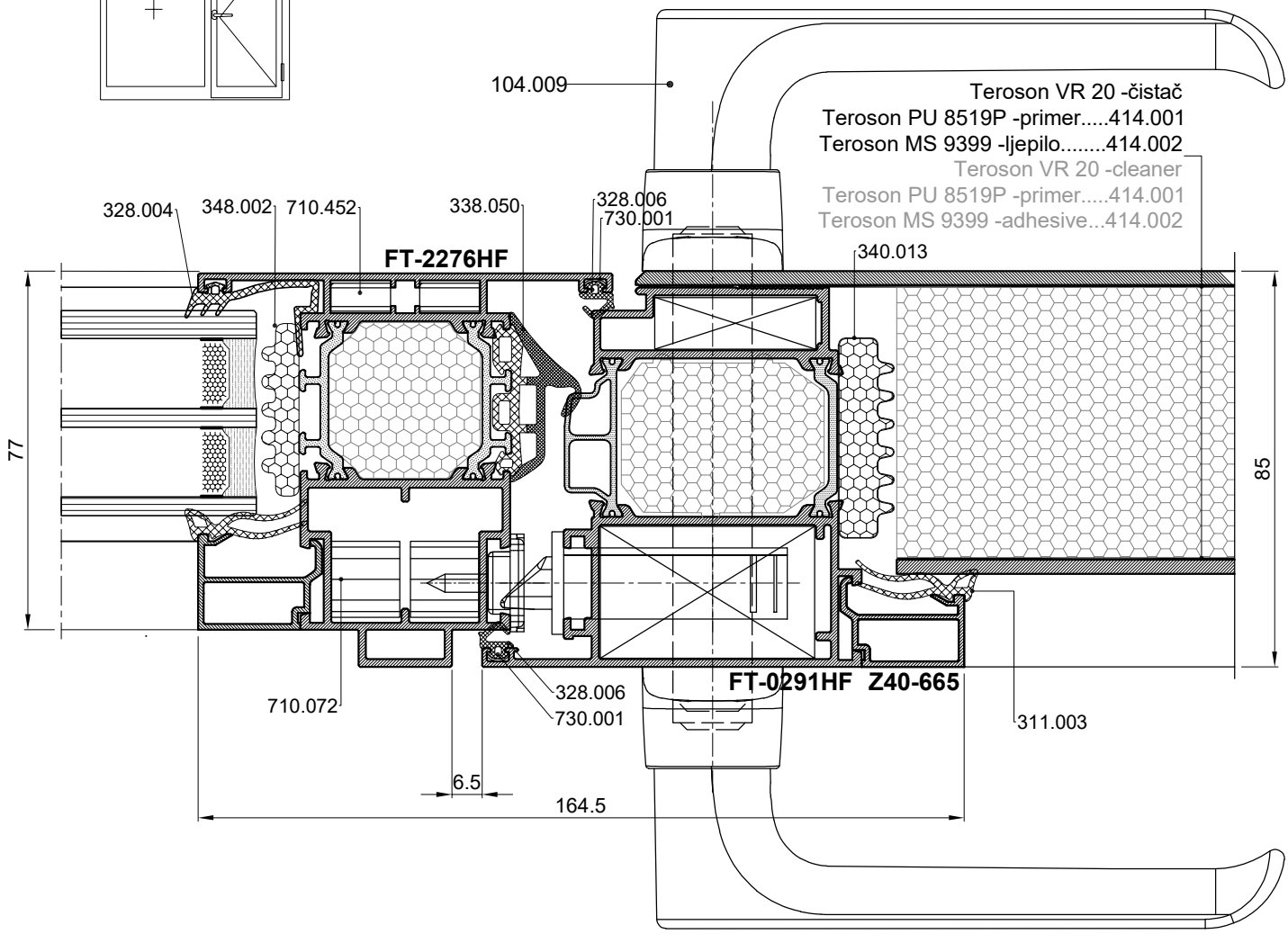


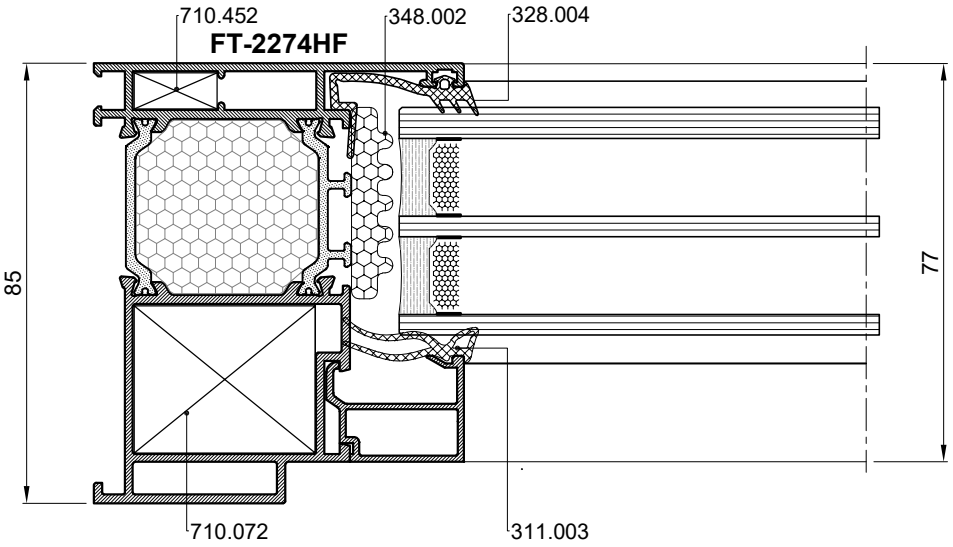
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002

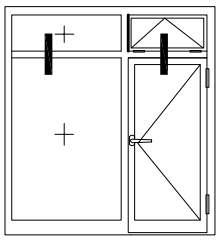


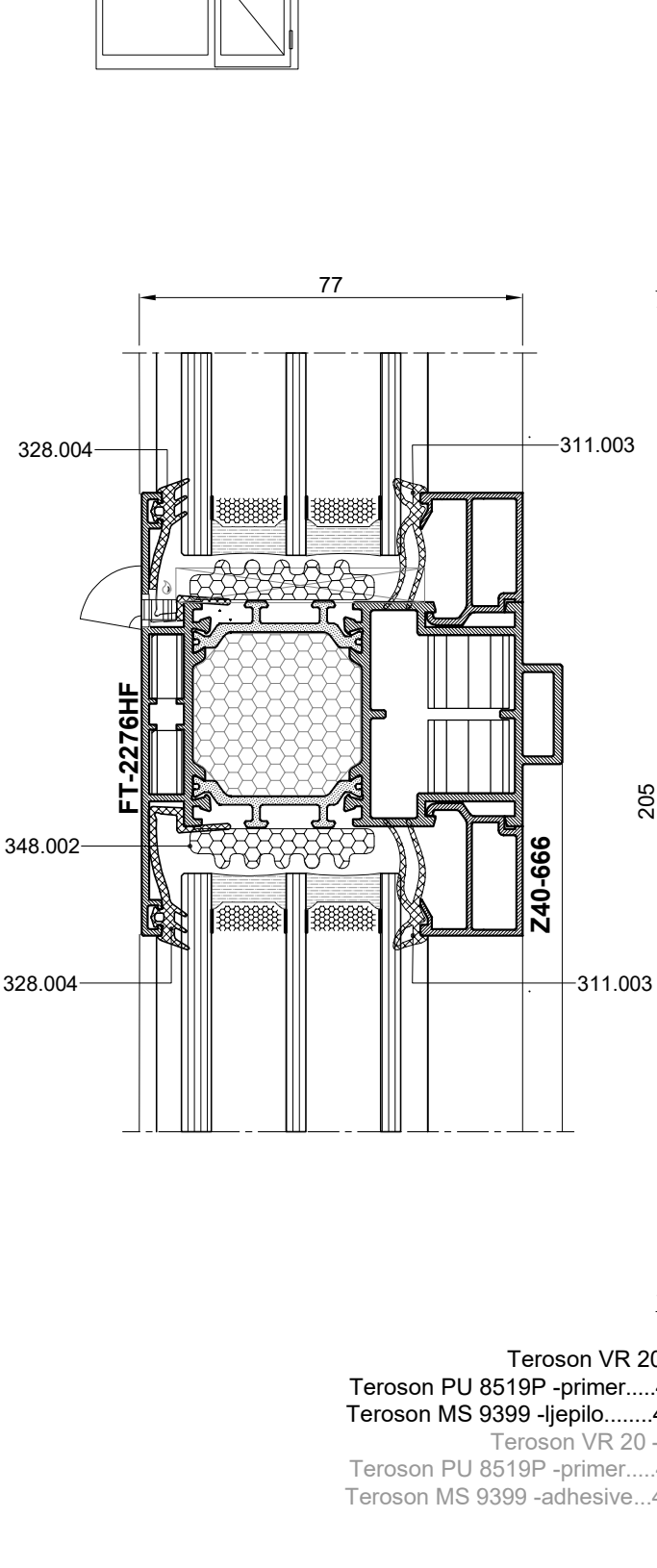
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)



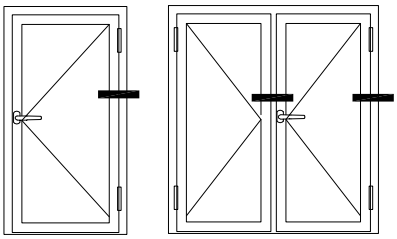

104.009
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002
328.004
348.002
710.452
338.050
328.006
730.001
340.013
FT-2276HF
77
85
710.072
328.006
730.001
FT-0291HF Z40-665
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6.5
164.5


710.452
348.002
328.004
FT-2274HF
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710.072
311.003

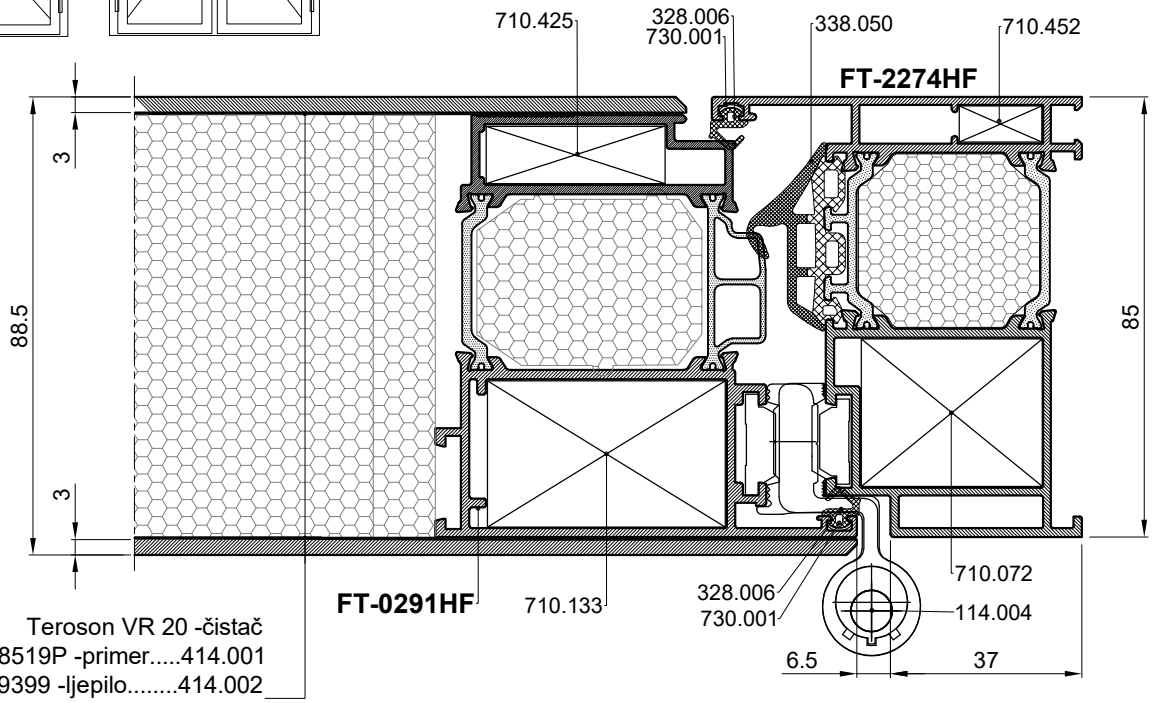




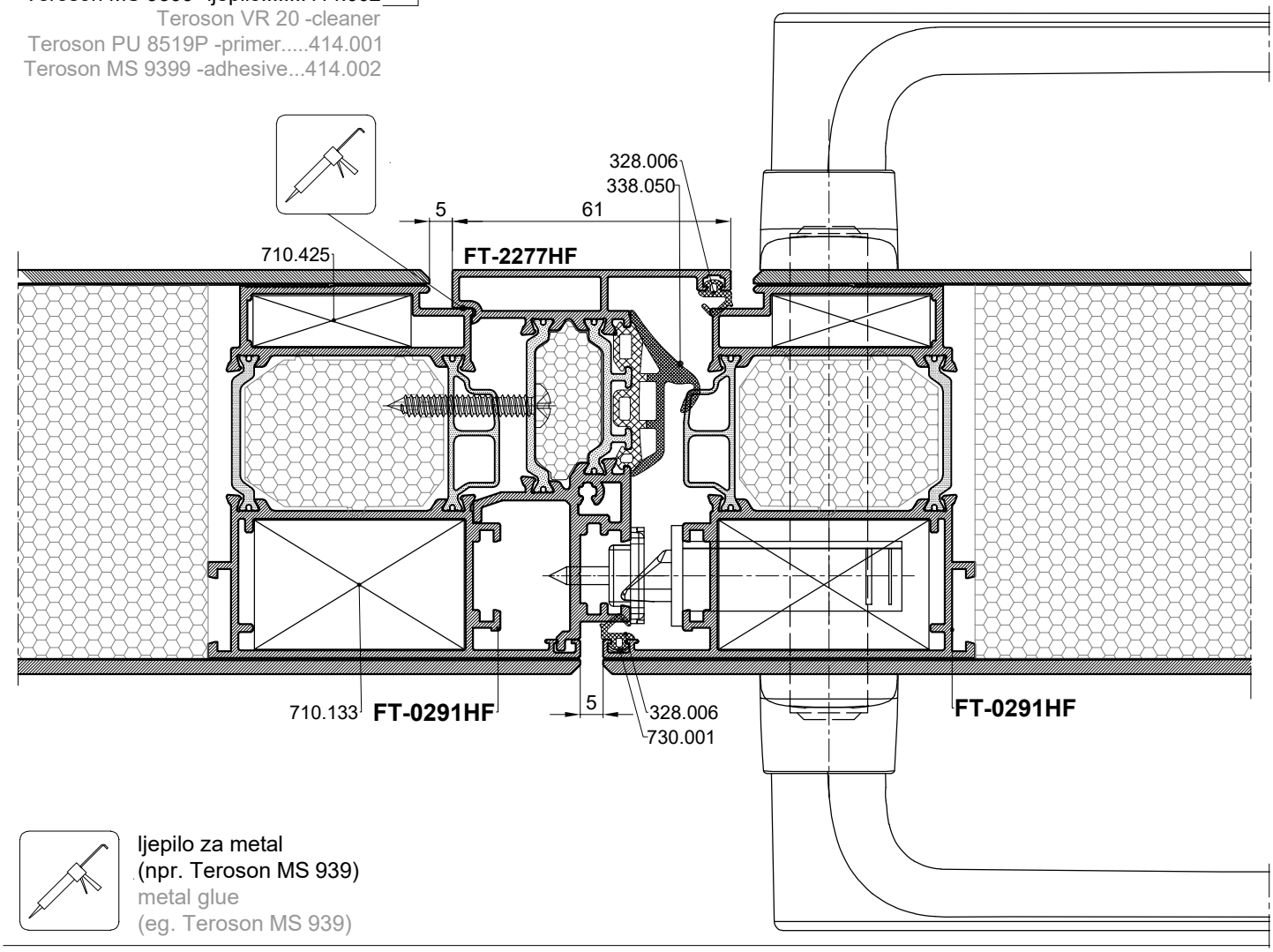
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002



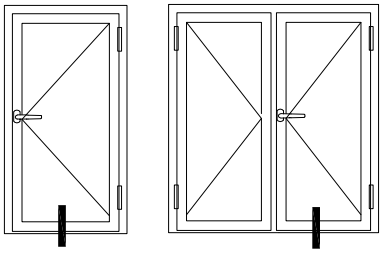
VRATA SA OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING



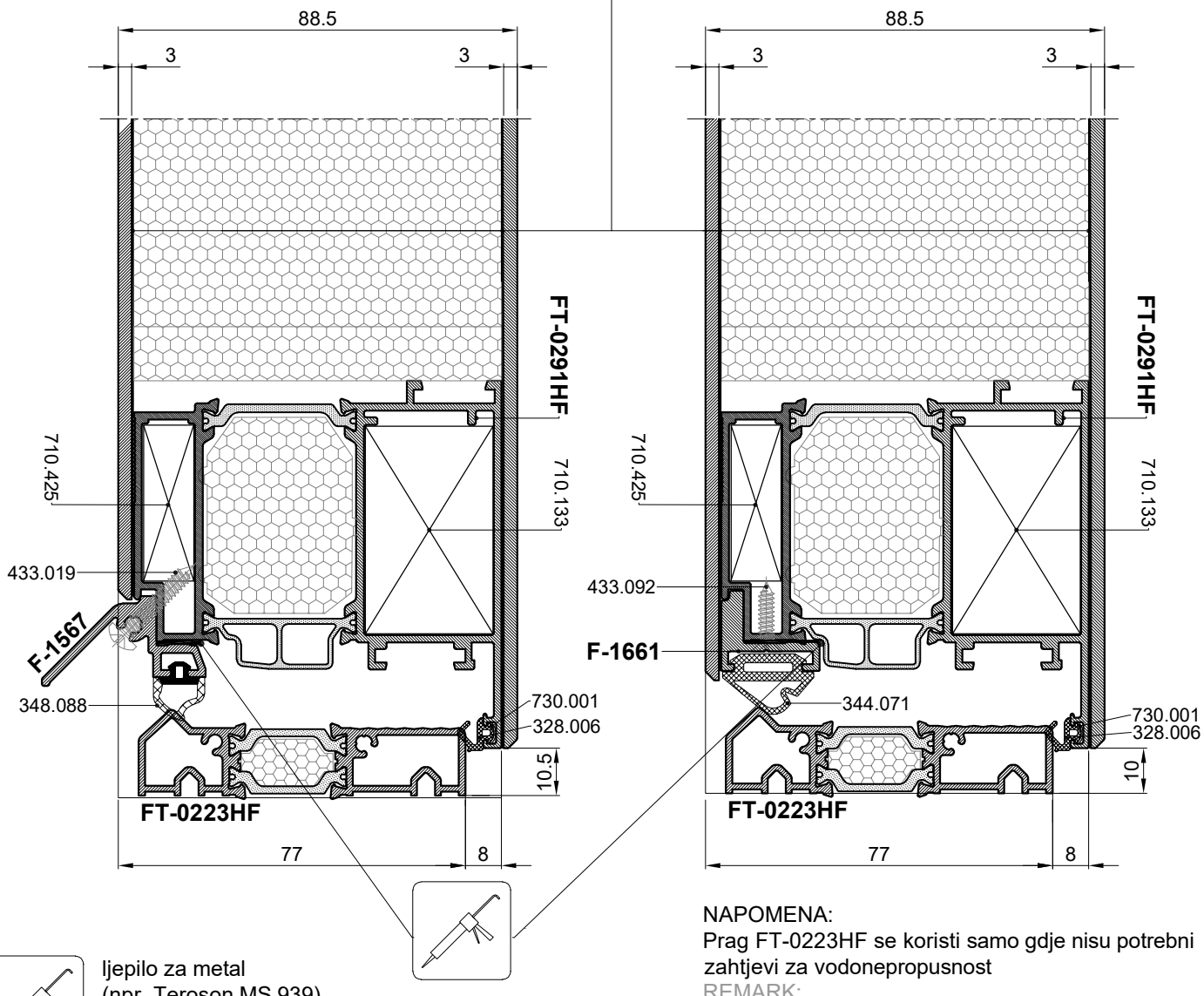
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002



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

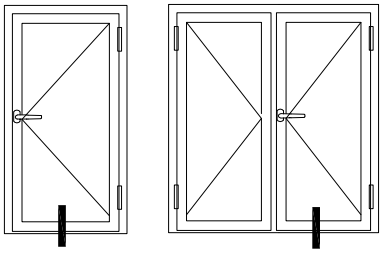


Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002

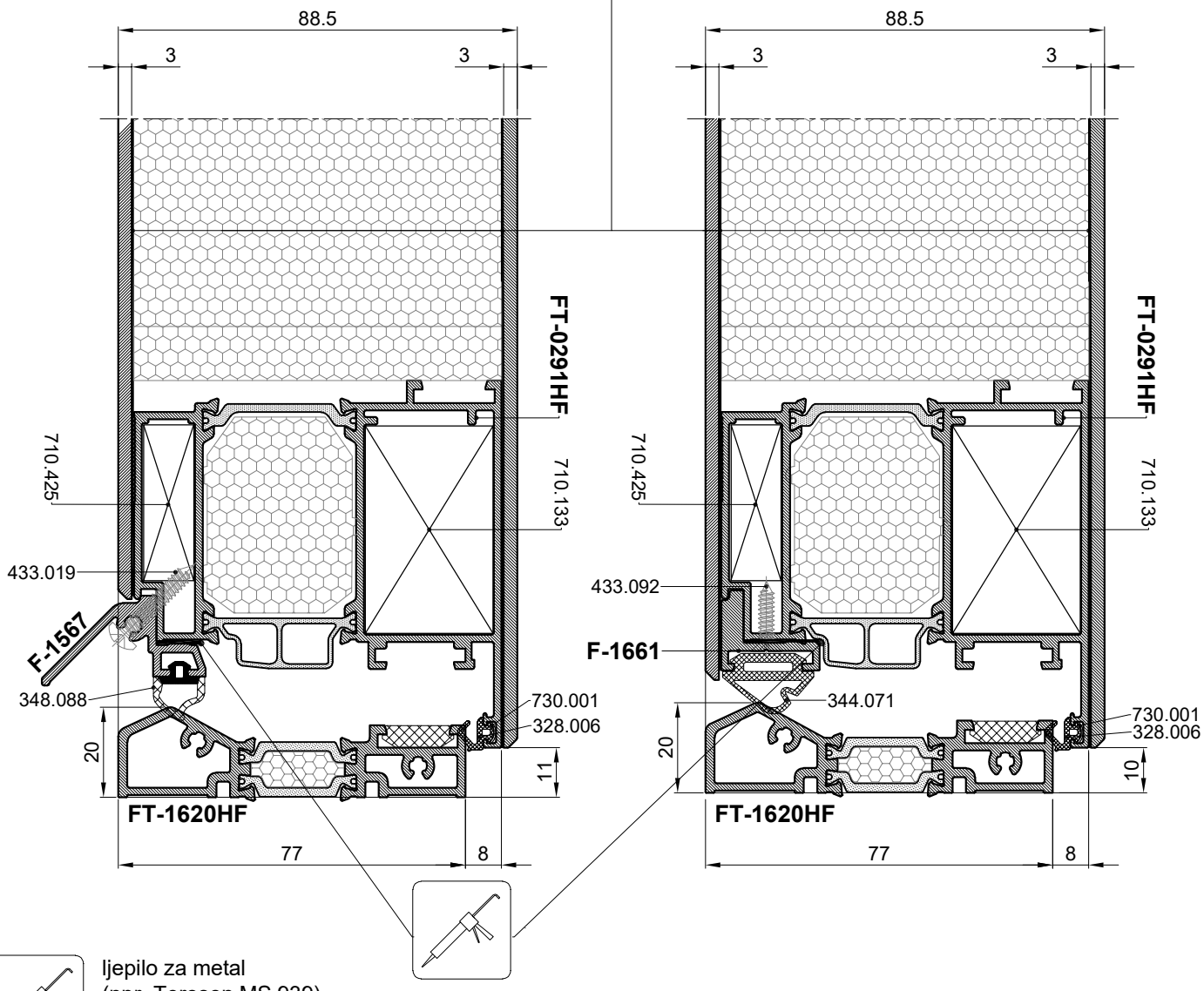


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

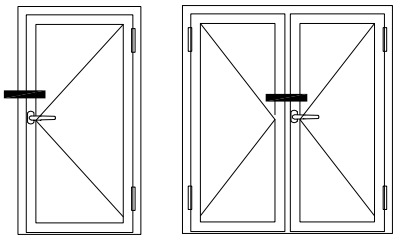
NAPOMENA:
Prag FT-0223HF se koristi samo gdje nisu potrebni zahtjevi za vodonepropusnost
REMARK:
The FT-0223HF threshold is only used where watertightness requirements are not required.



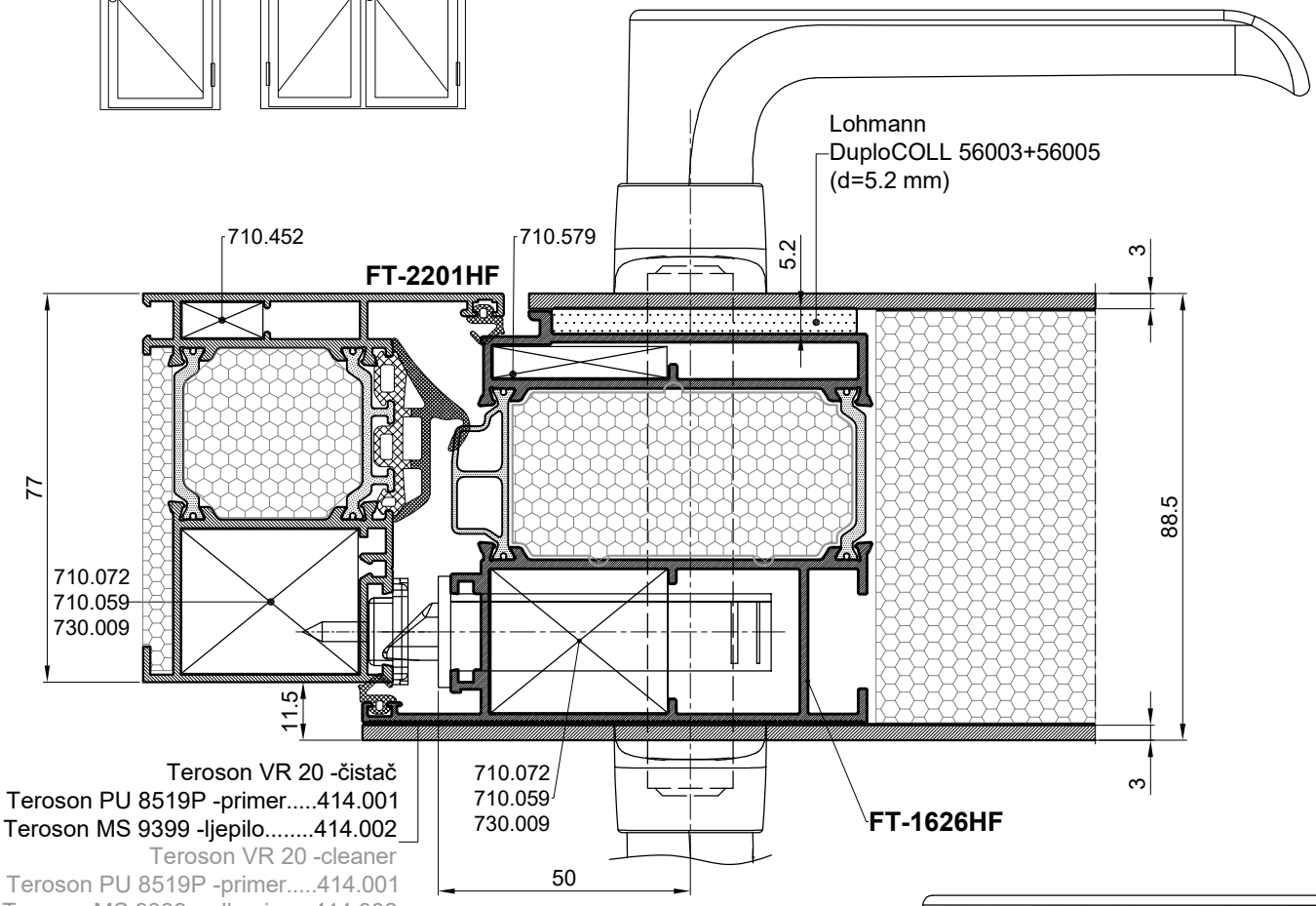
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002



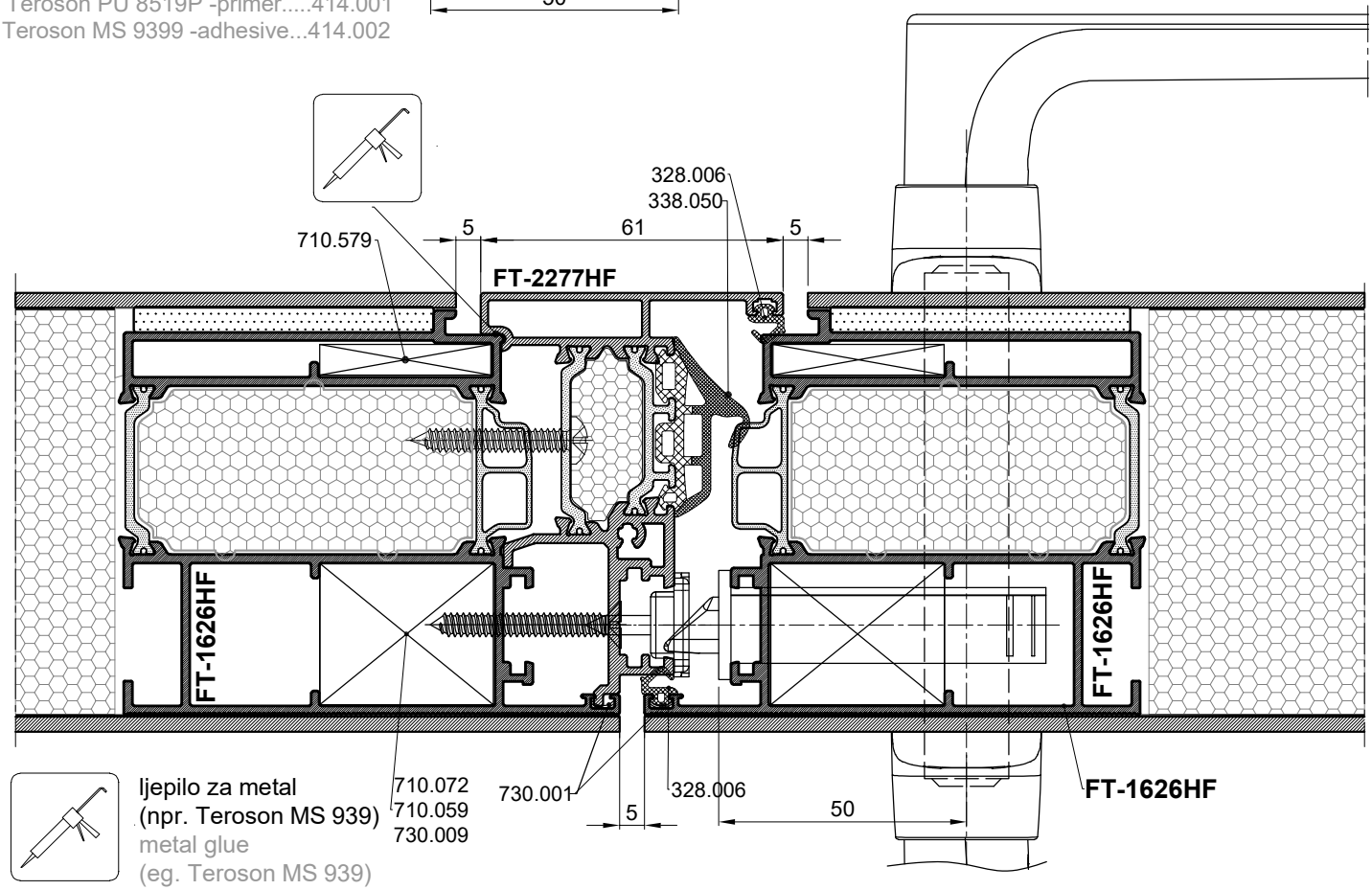
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)



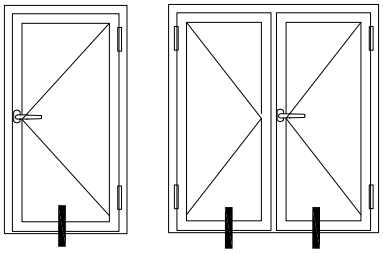
VRATA SA OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING



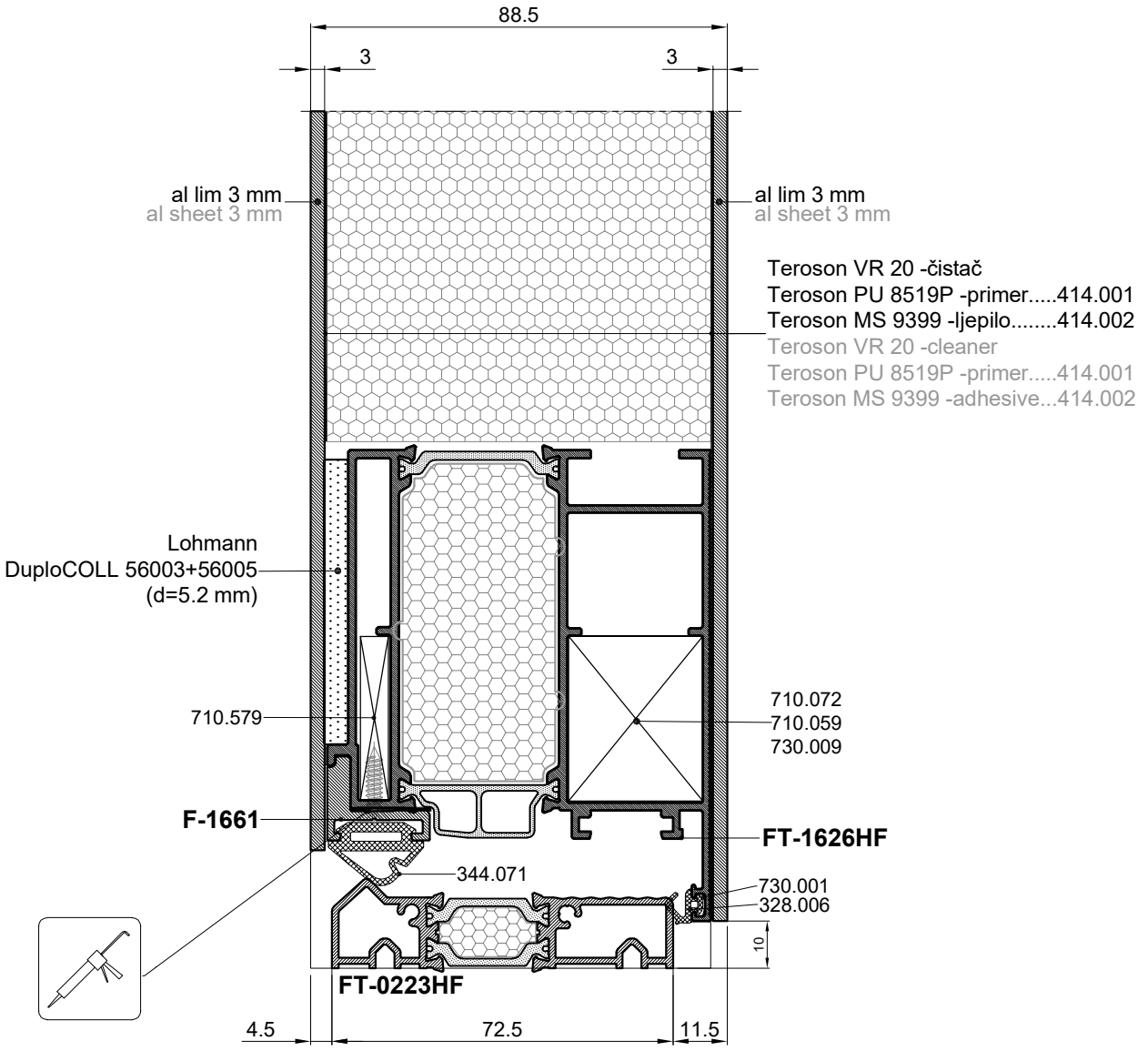
Teroson VR 20 -čistač
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -ljepilo.....414.002
Teroson VR 20 -cleaner
Teroson PU 8519P -primer.....414.001
Teroson MS 9399 -adhesive...414.002



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

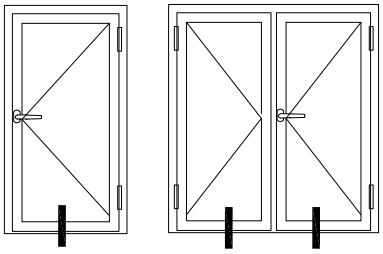


VRATA SA OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING

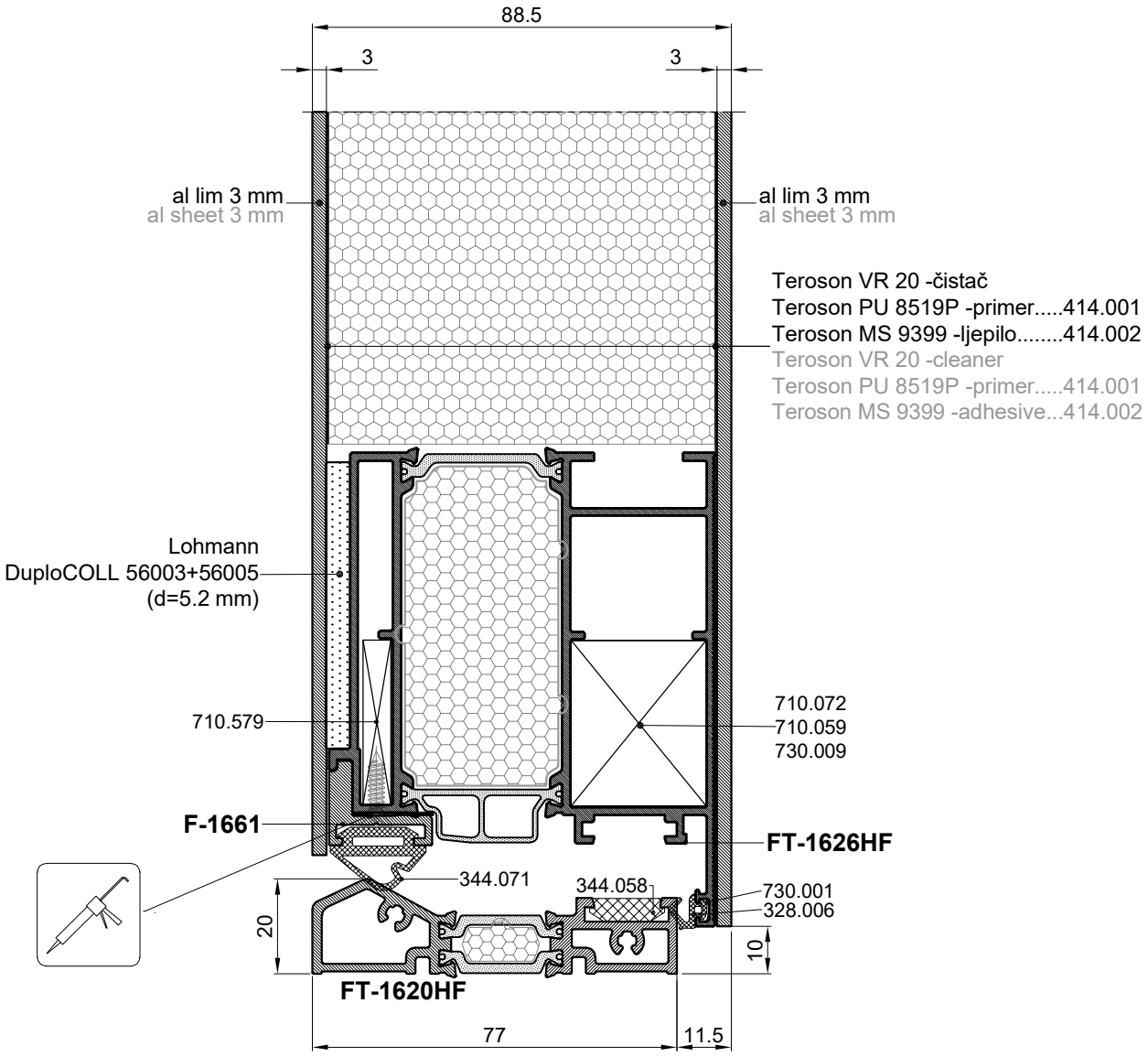


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

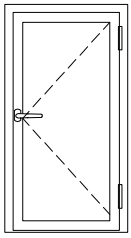
NAPOMENA:
Prag FT-0223HF se koristi samo gdje nisu potrebni zahtjevi za vodonepropusnost
REMARK:
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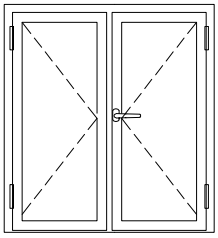


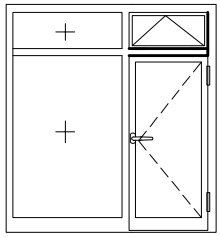
VRATA SA OBOSTRANOM OBLOGOM
DOOR WITH DOUBLE-SIDED LINING

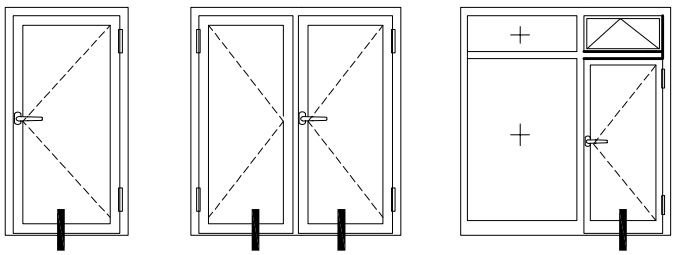


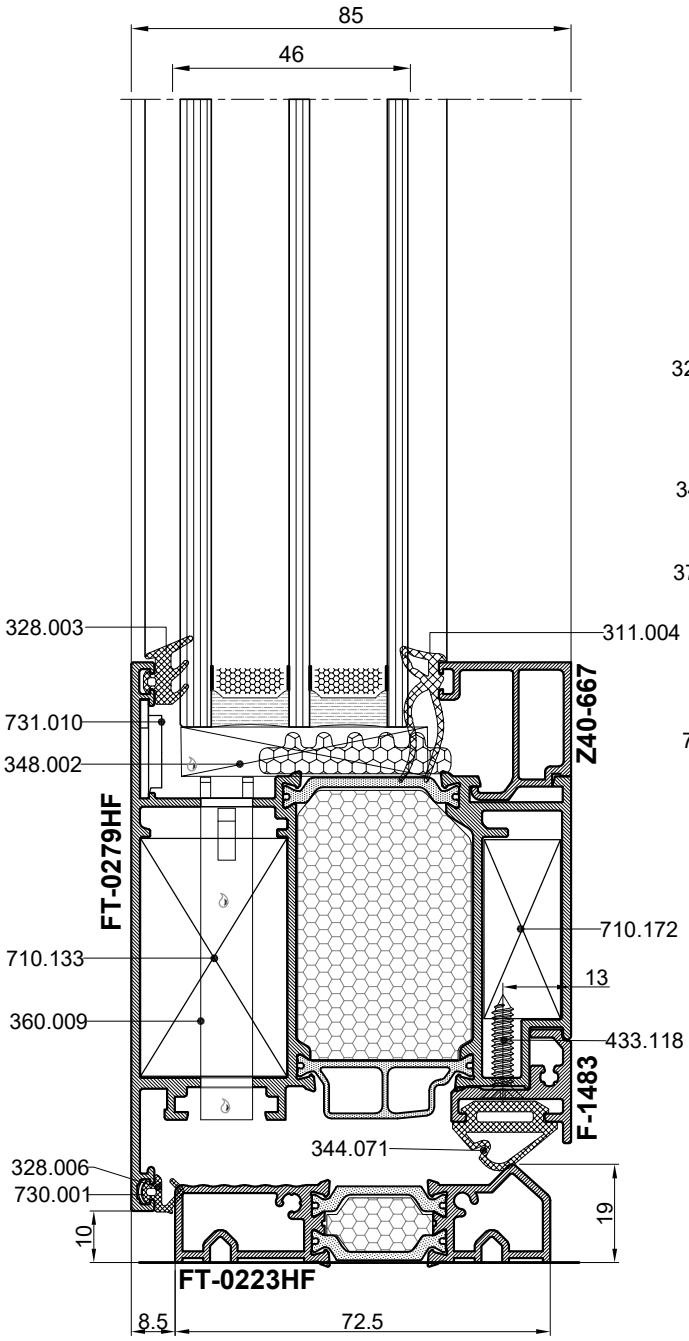
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

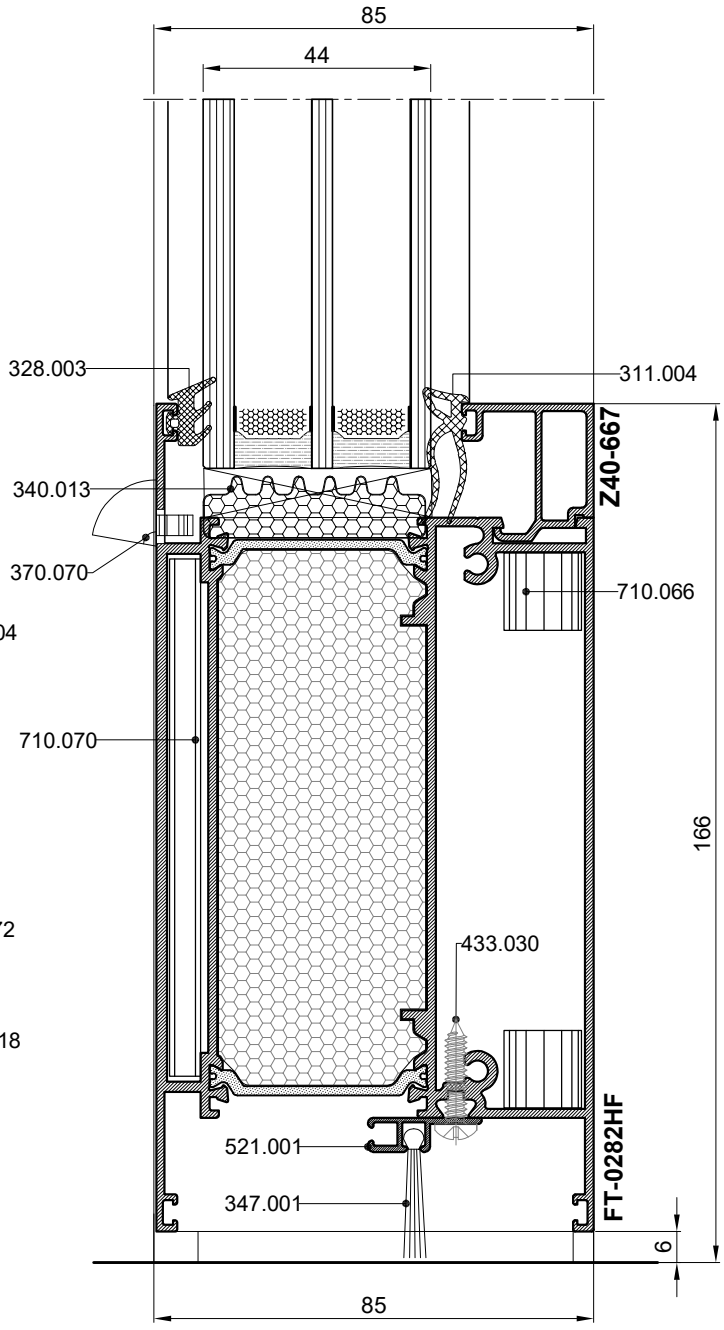


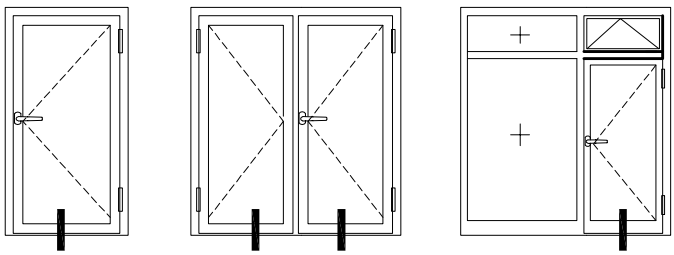


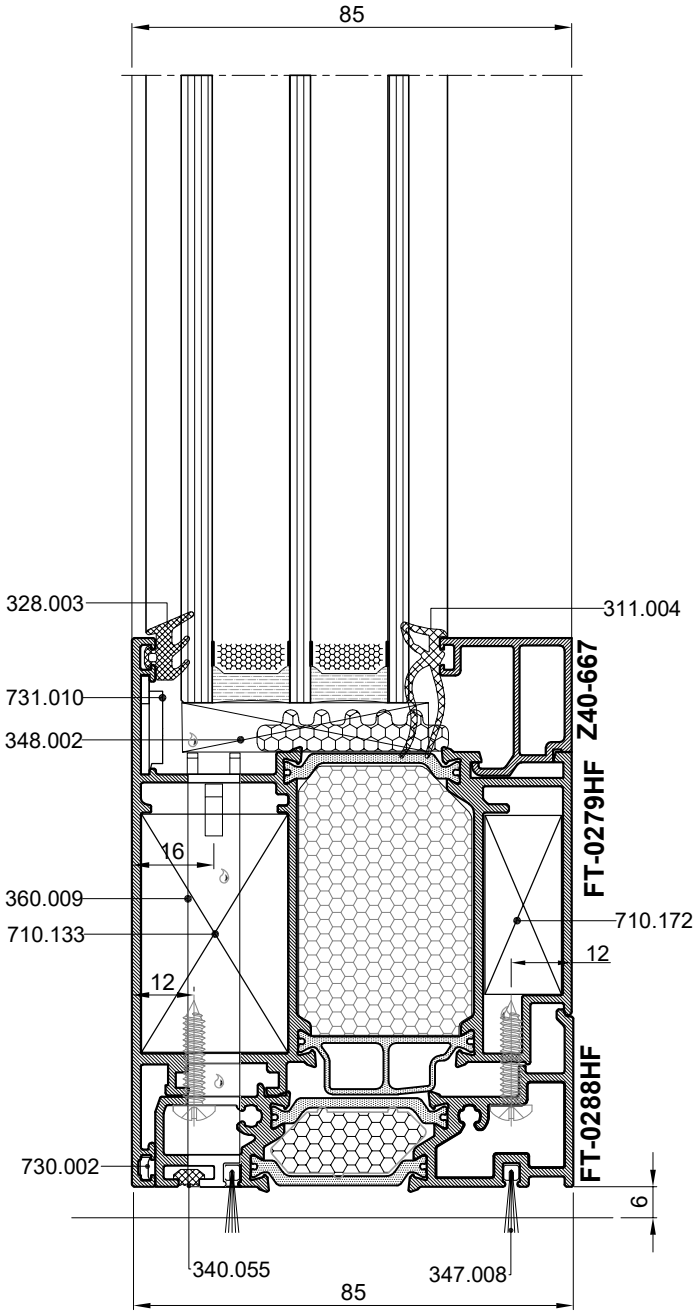


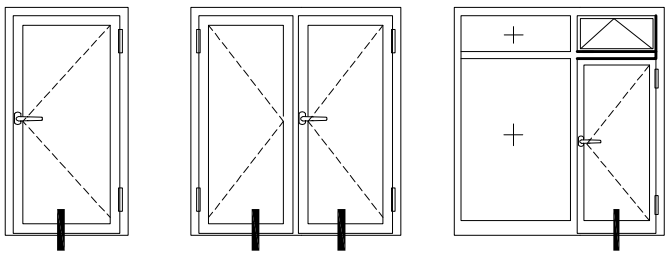


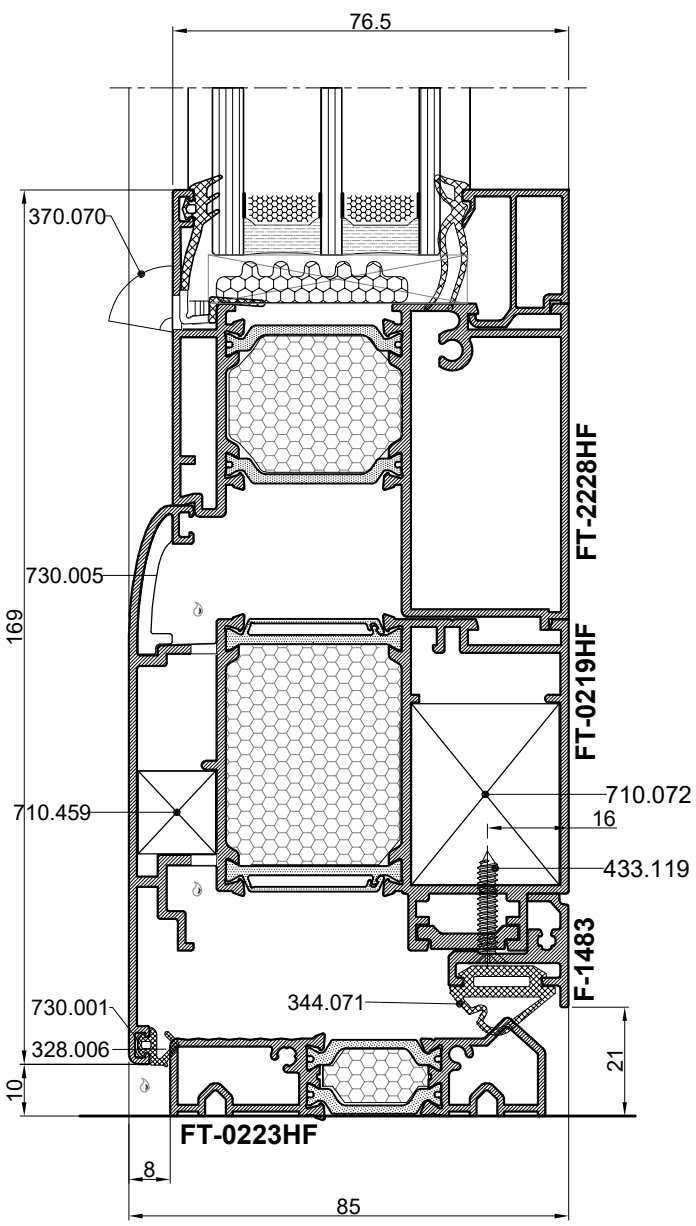

85
46
328.003
311.004
731.010
348.002
Z40-667
FT-0279HF
710.172
710.133
13
360.009
433.118
F-1483
344.071
328.006
730.001
19
10
FT-0223HF
8.5
72.5

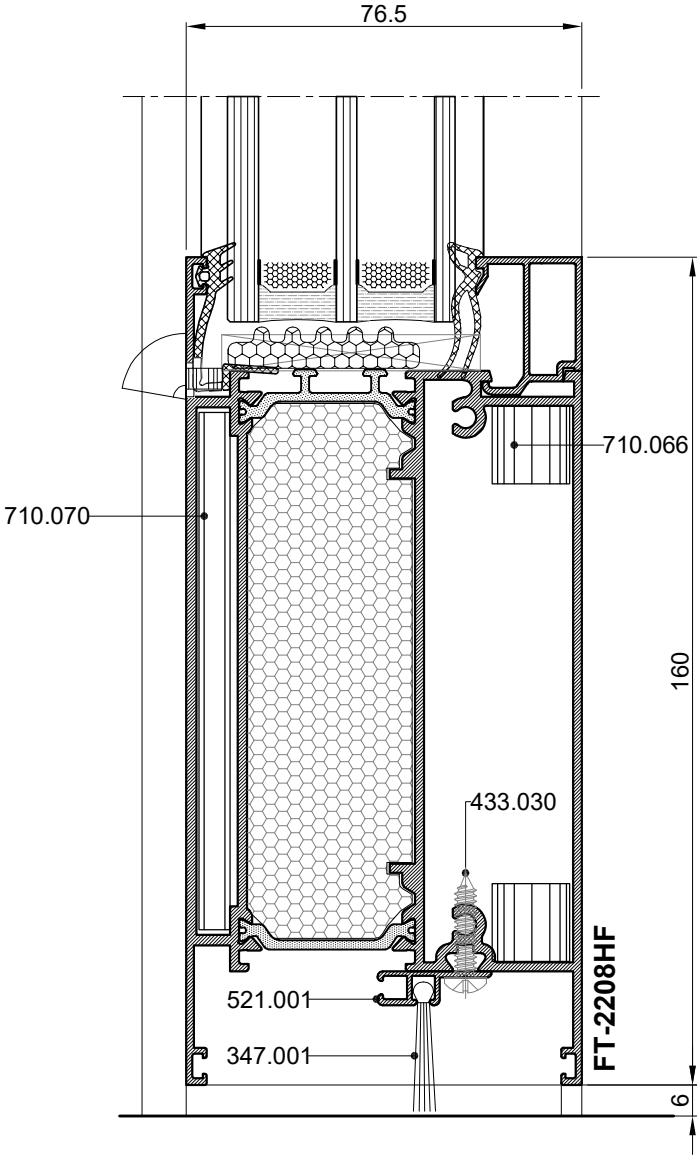

85
44
328.003
311.004
340.013
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370.070
710.066
710.070
166
433.030
521.001
FT-0282HF
347.001
6
85

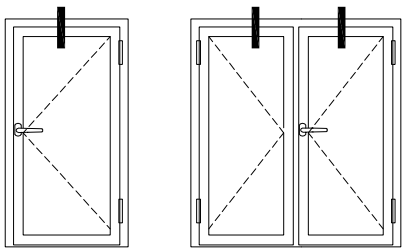


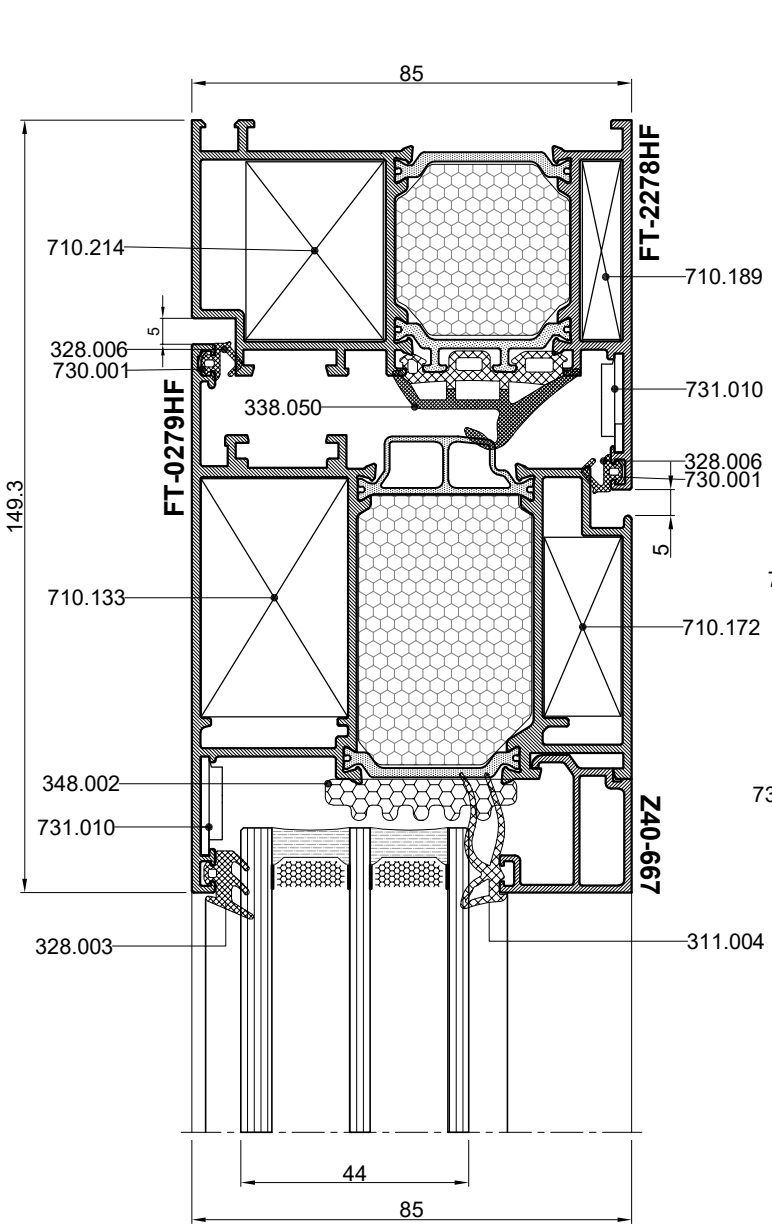

85
328.003
311.004
731.010
348.002
Z40-667
FT-0279HF
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360.009
710.172
710.133
12
12
FT-0288HF
730.002
6
340.055
347.008
85

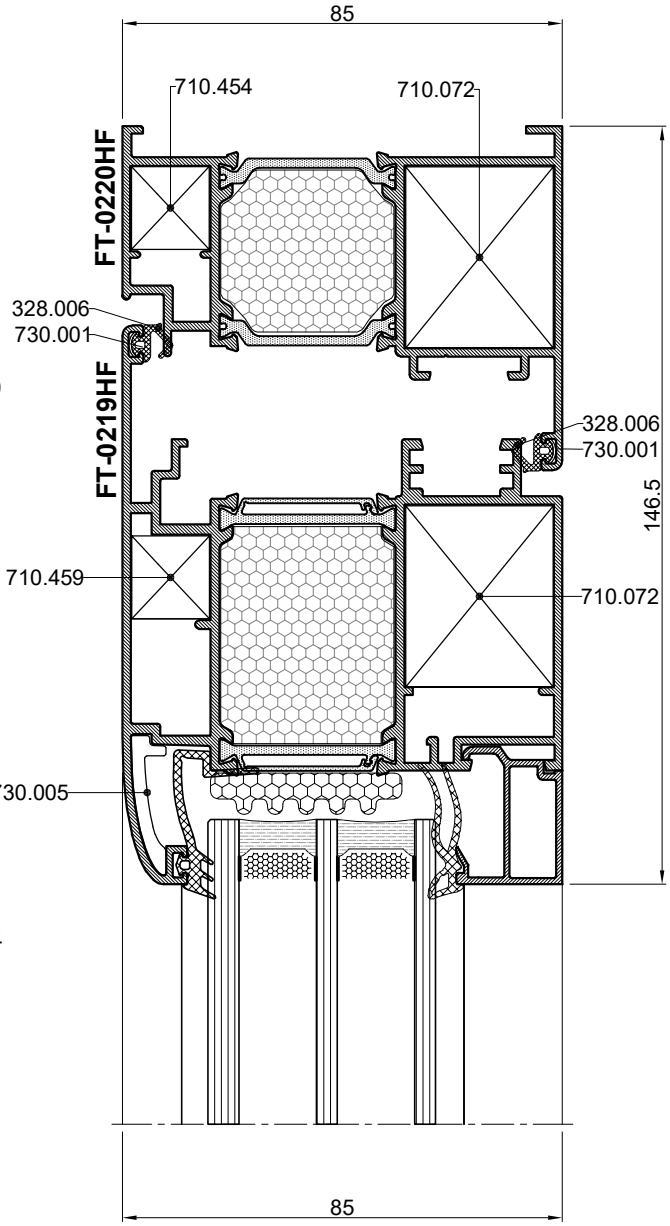


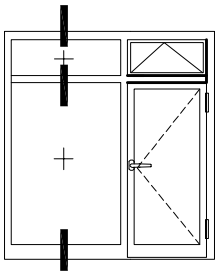

76.5
370.070
730.005
169
710.459
730.001
328.006
10
FT-0223HF
8
85
FT-2228HF
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433.119
F-1483
344.071
21

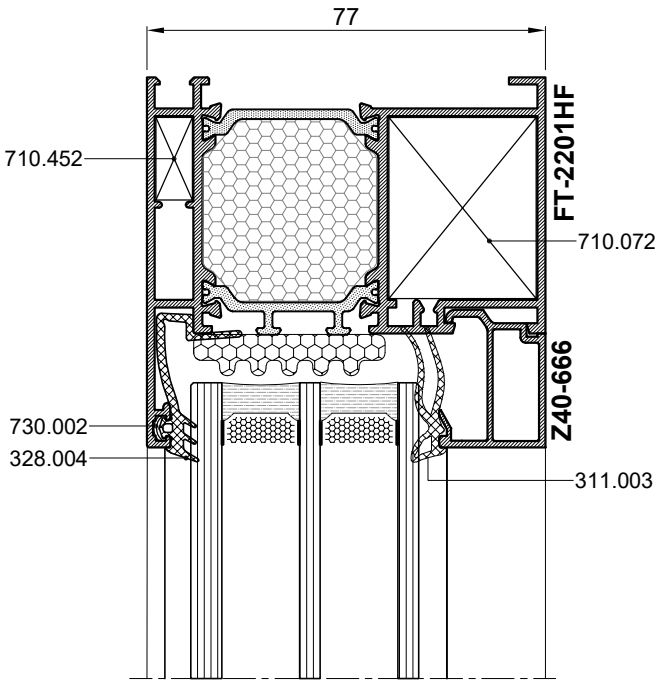

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710.066
710.070
160
433.030
521.001
347.001
FT-2208HF
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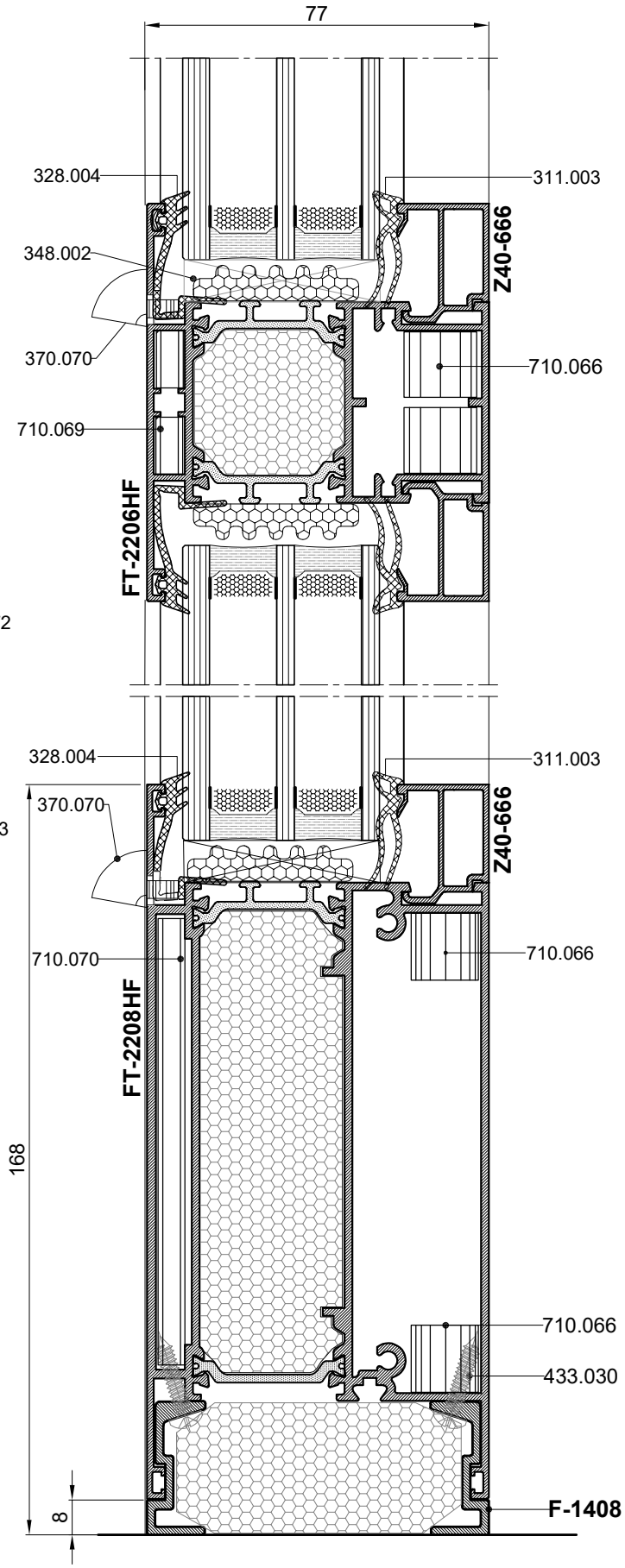


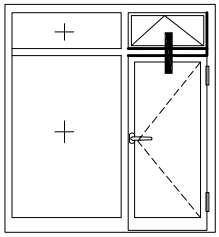

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710.214
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730.001
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FT-0279HF
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731.010
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328.006
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5
710.172
Z40-667
311.004
44
85

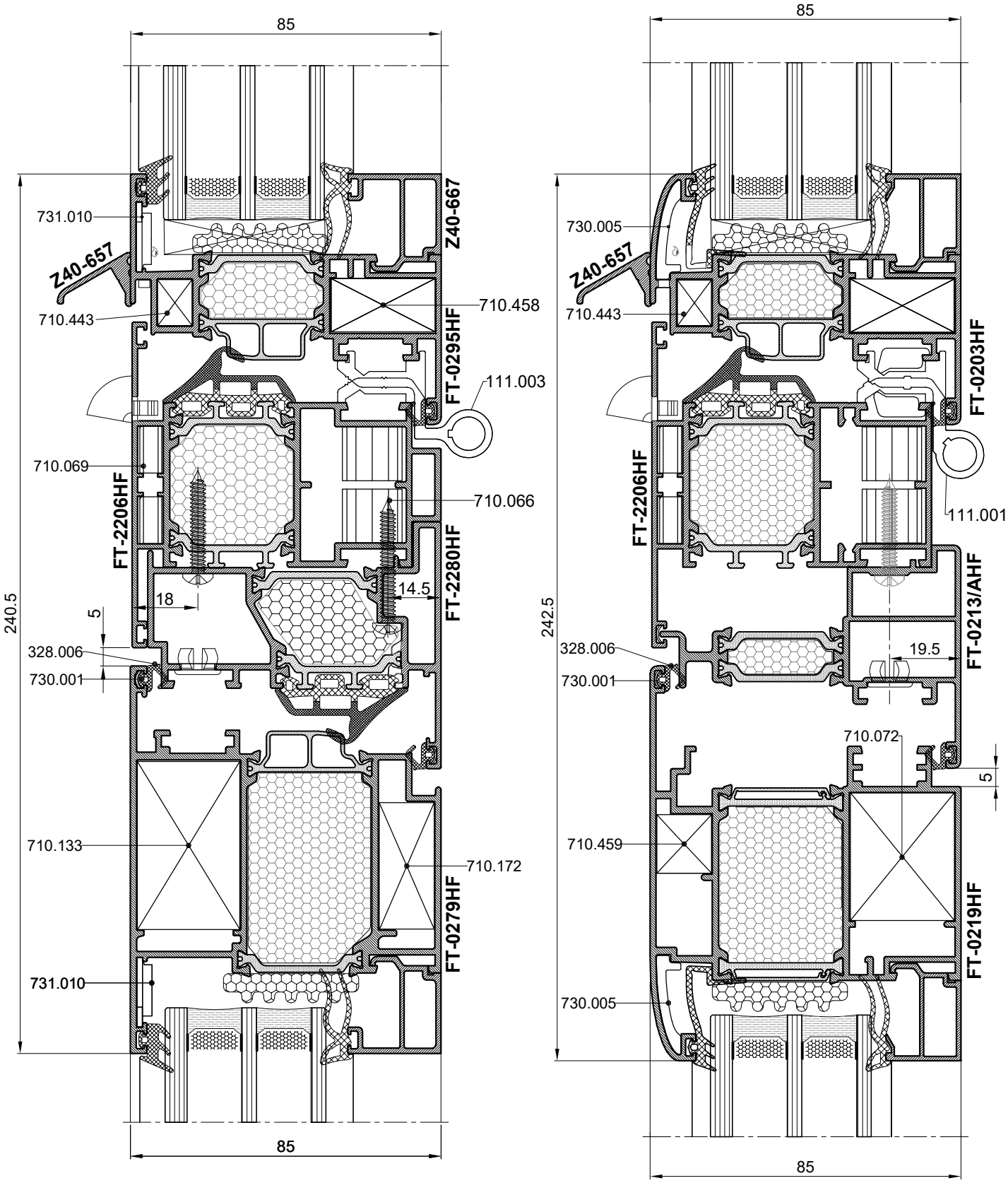

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710.454
710.072
FT-0220HF
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730.001
FT-0219HF
328.006
730.001
146.5
710.459
710.072
730.005
85

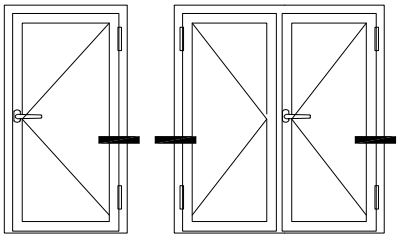


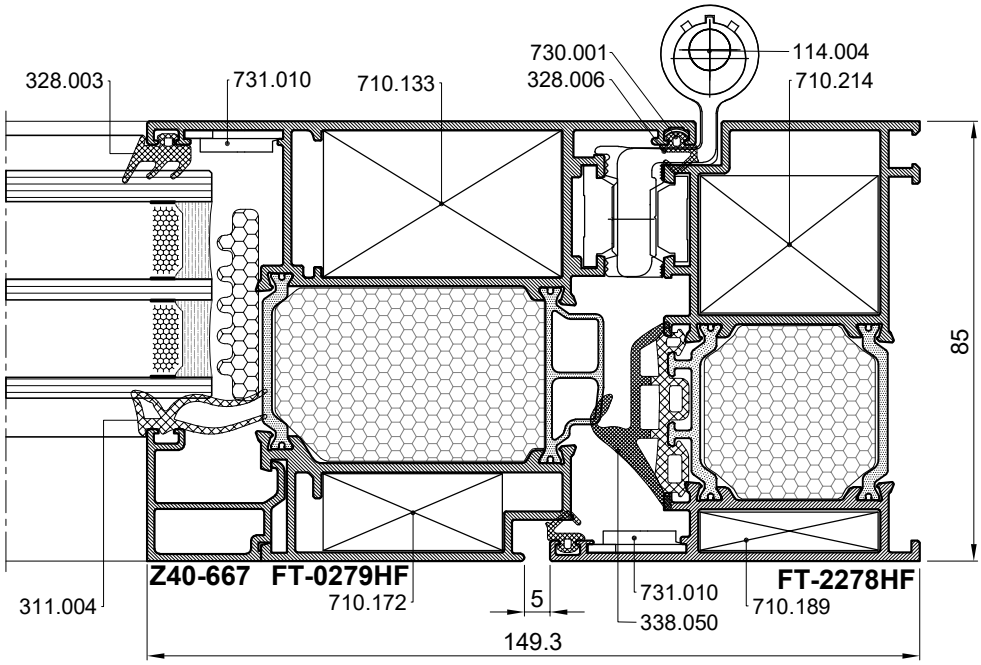

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710.452
FT-2201HF
710.072
Z40-666
730.002
328.004
311.003

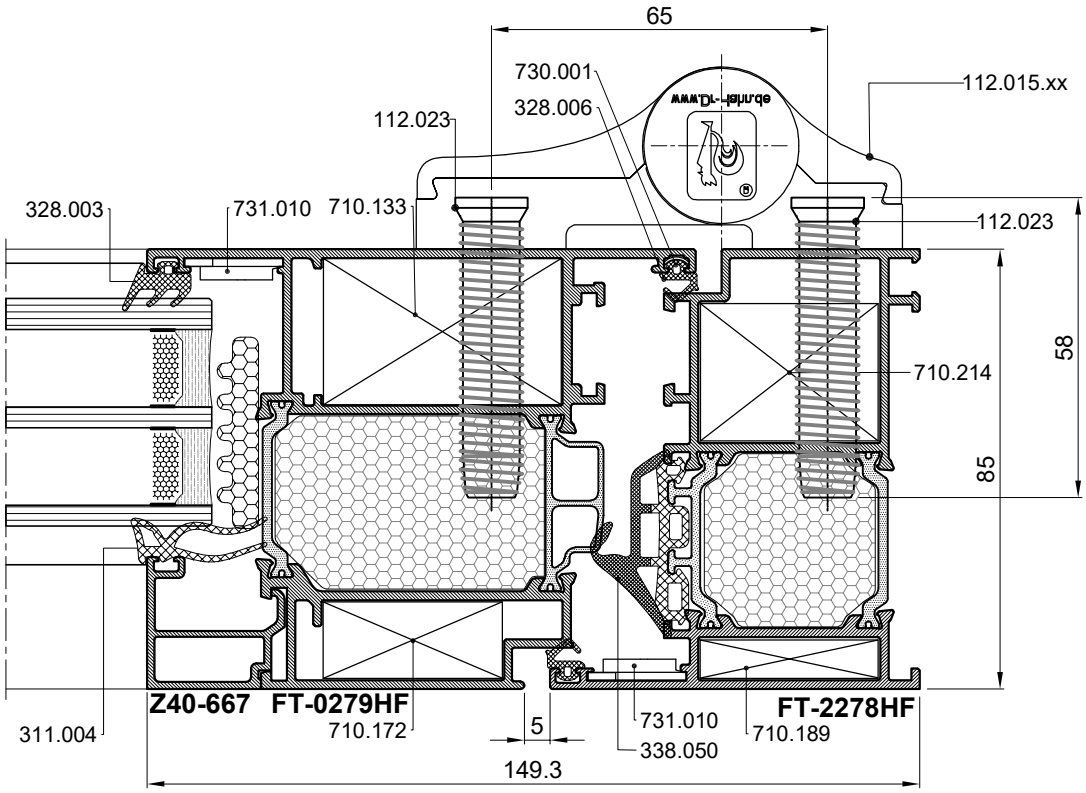

77
328.004
311.003
348.002
Z40-666
370.070
710.066
710.069
FT-2206HF
328.004
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Z40-666
710.070
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FT-2208HF
168
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8
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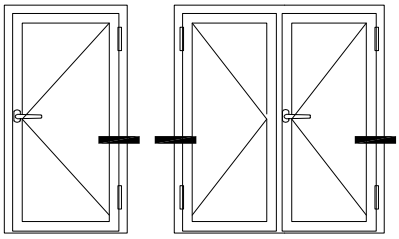


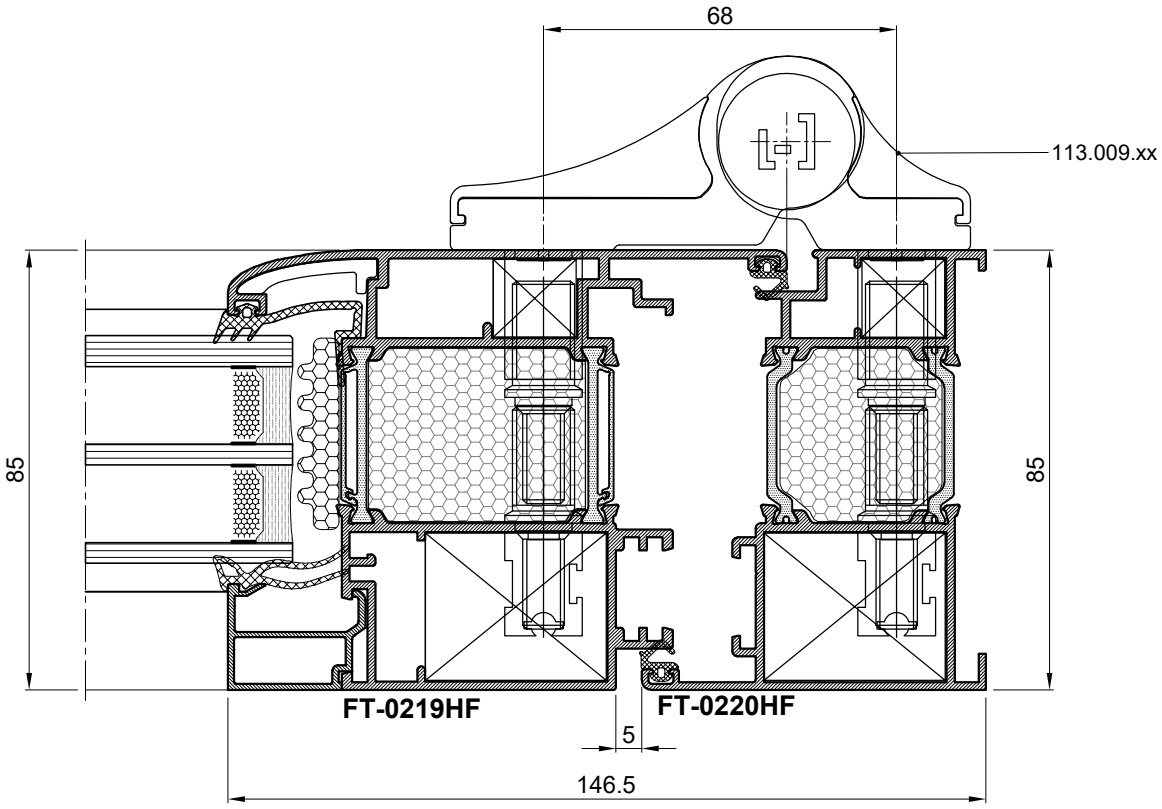

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Z40-657
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111.003
710.069
FT-2206HF
710.066
FT-2280HF
14.5
18
5
240.5
328.006
730.001
710.133
710.172
FT-0279HF
731.010
85
85
730.005
Z40-657
710.443
FT-0203HF
FT-2206HF
111.001
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19.5
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5
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85

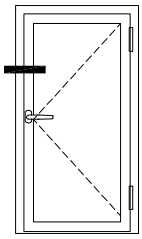


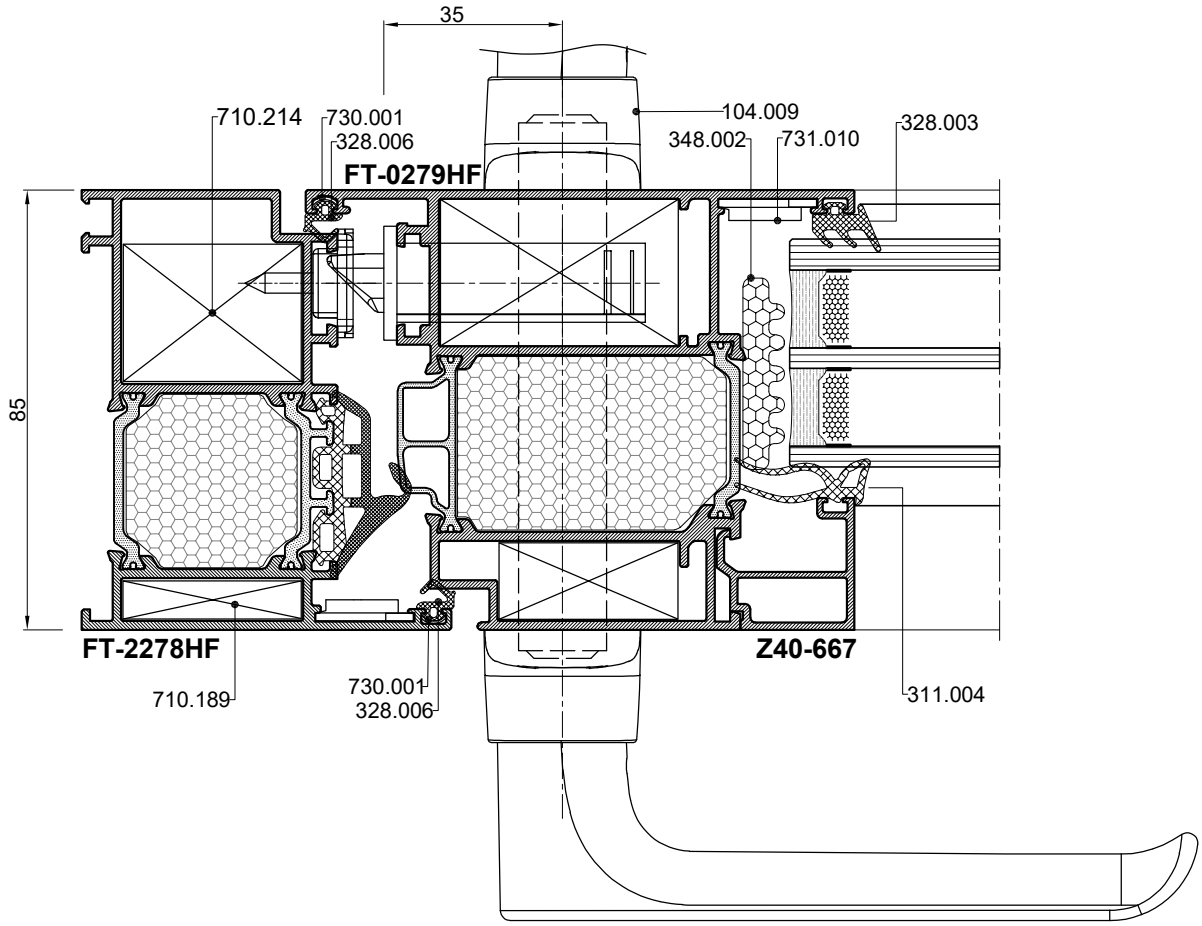

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731.010
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5
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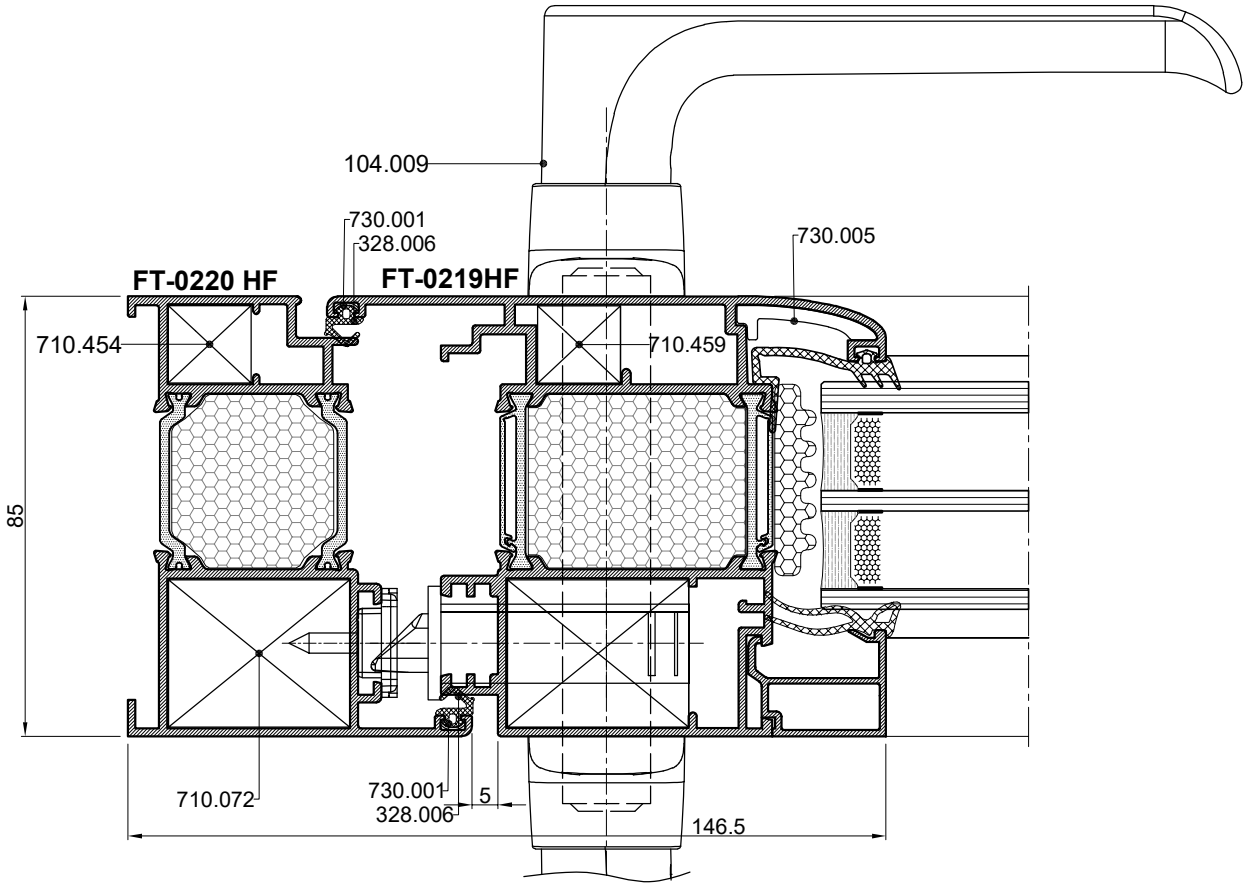

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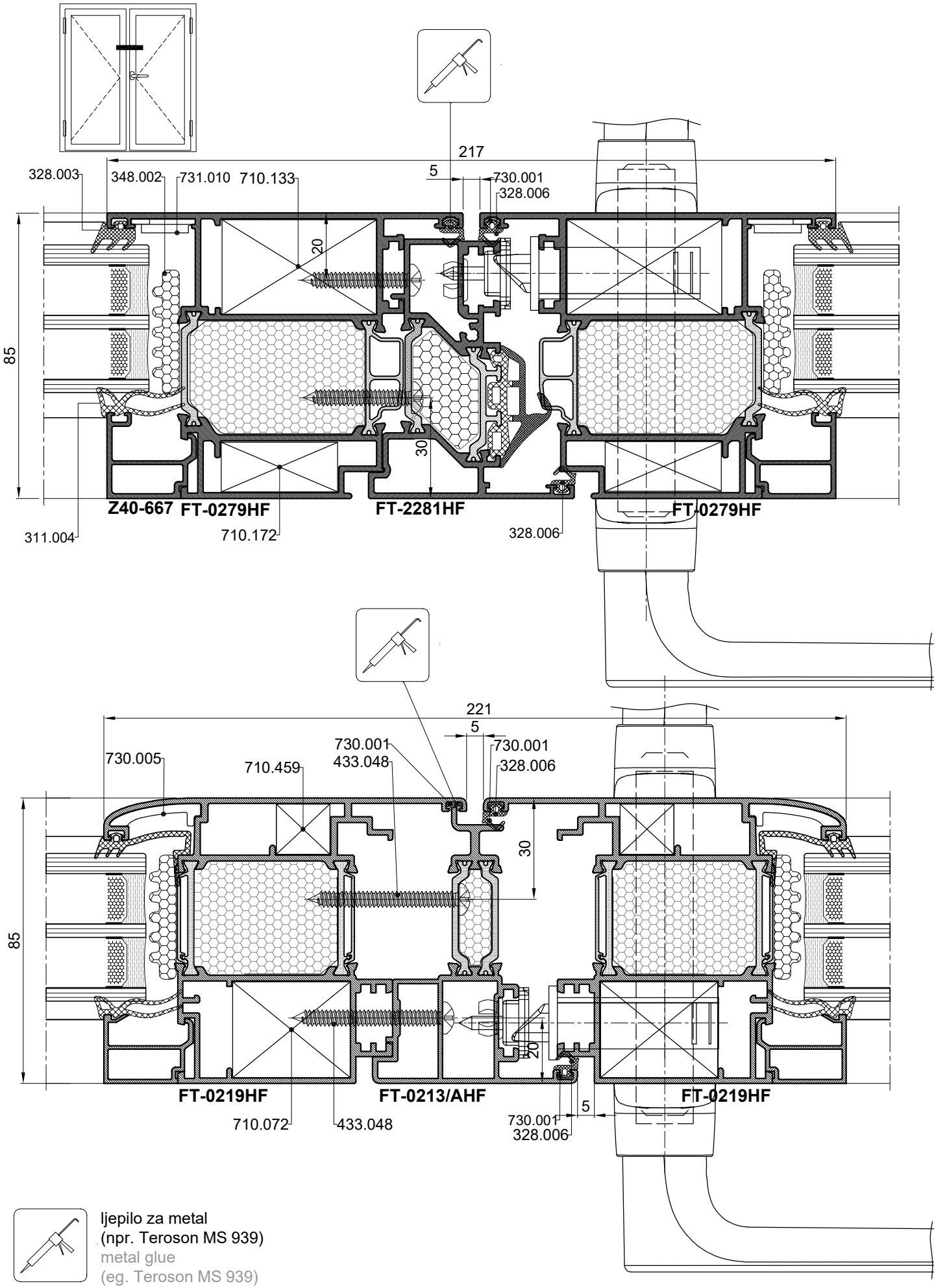



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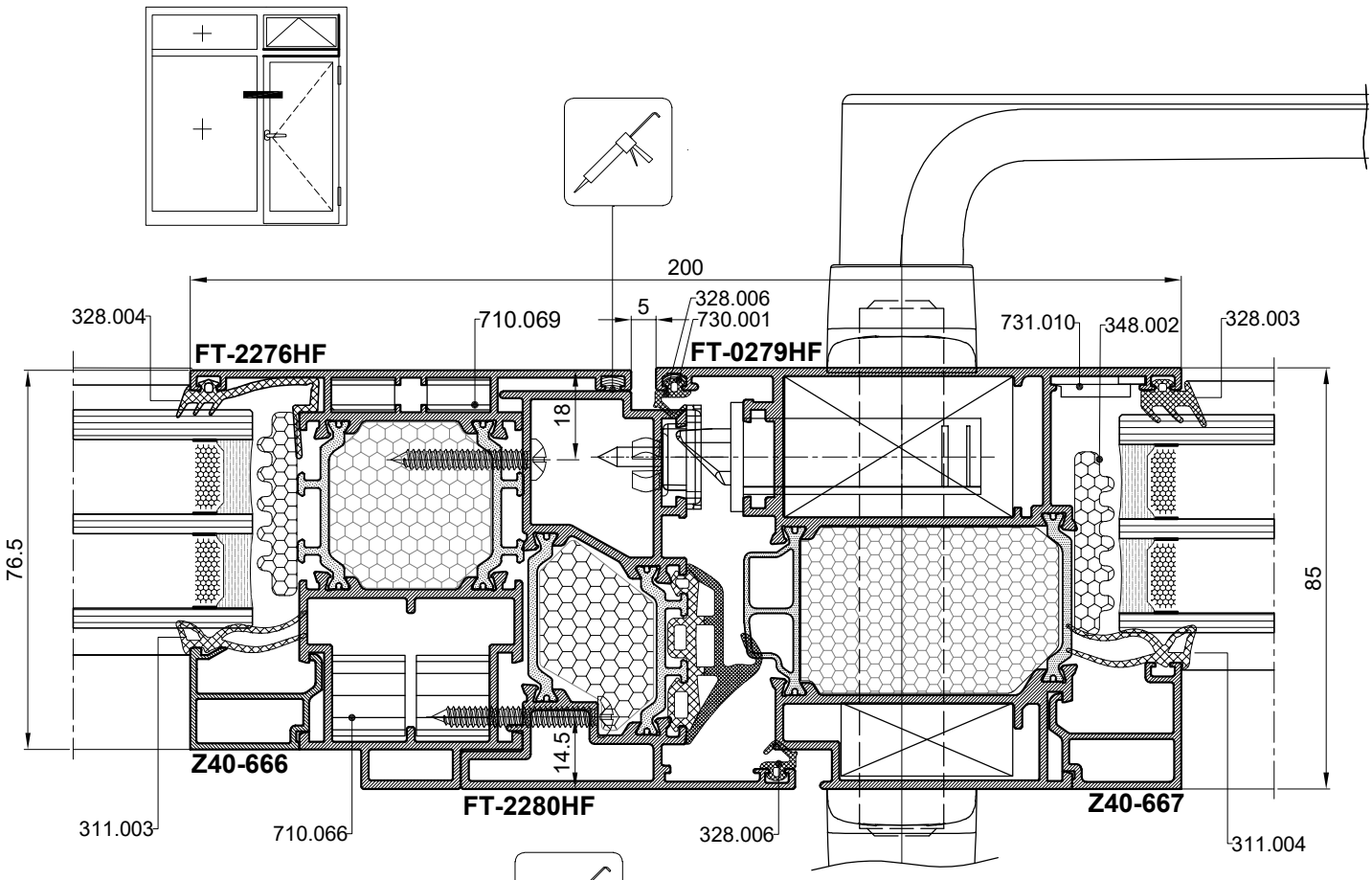


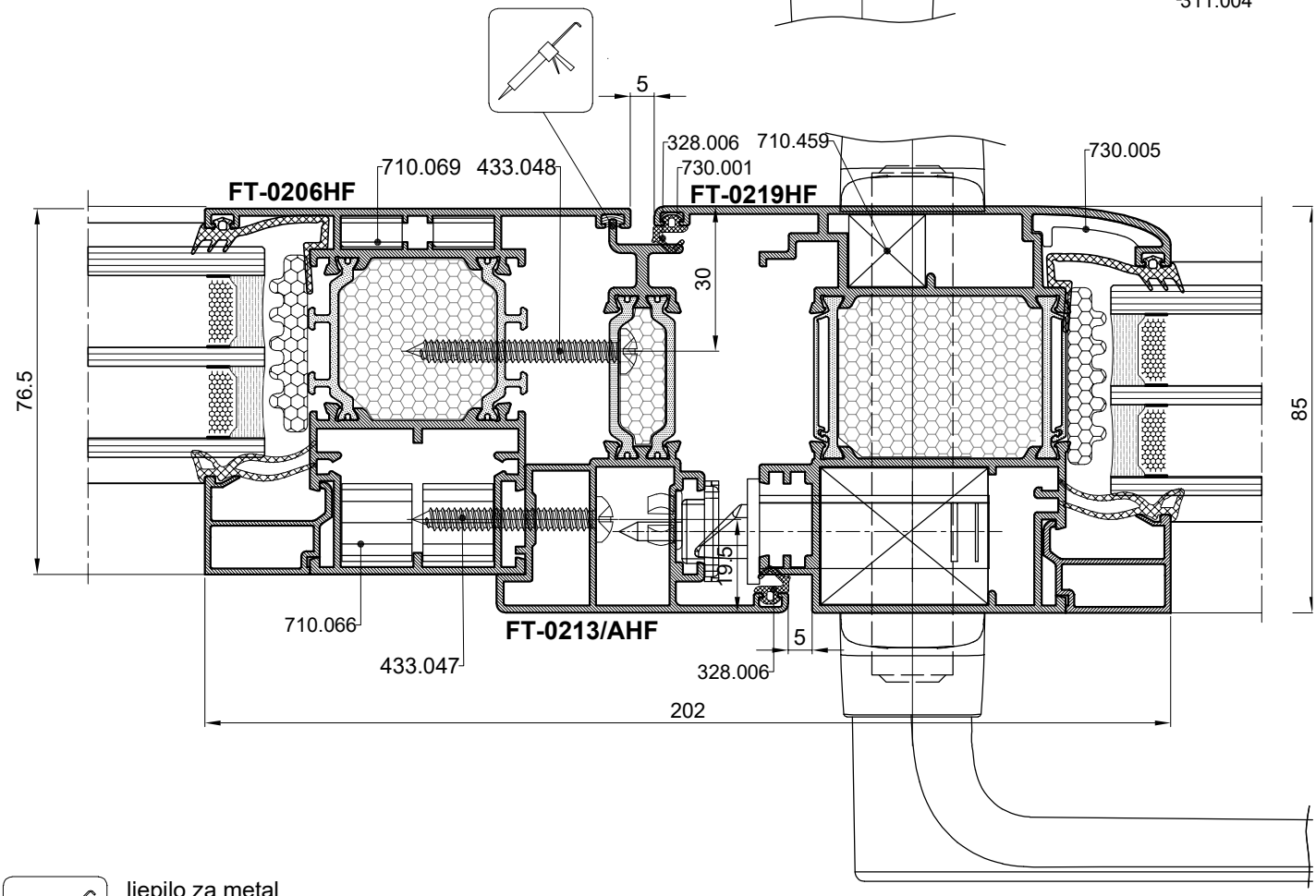

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104.009
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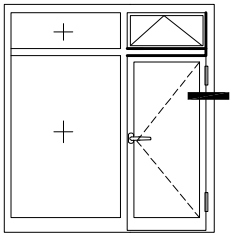


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

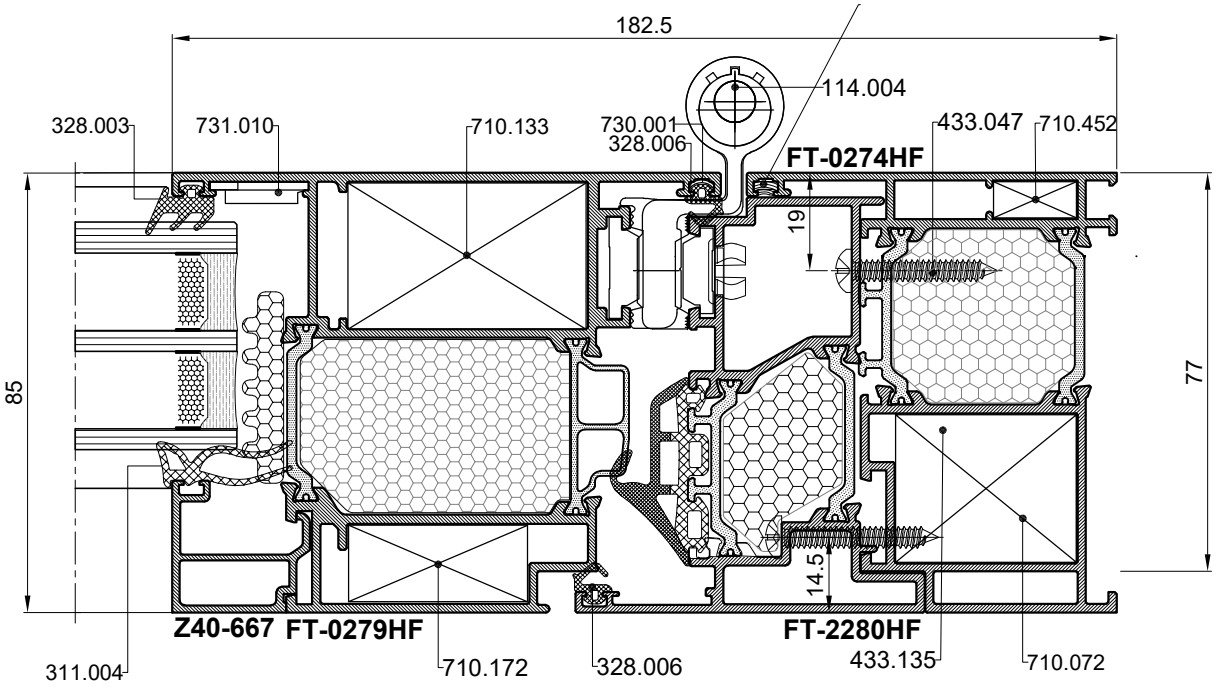


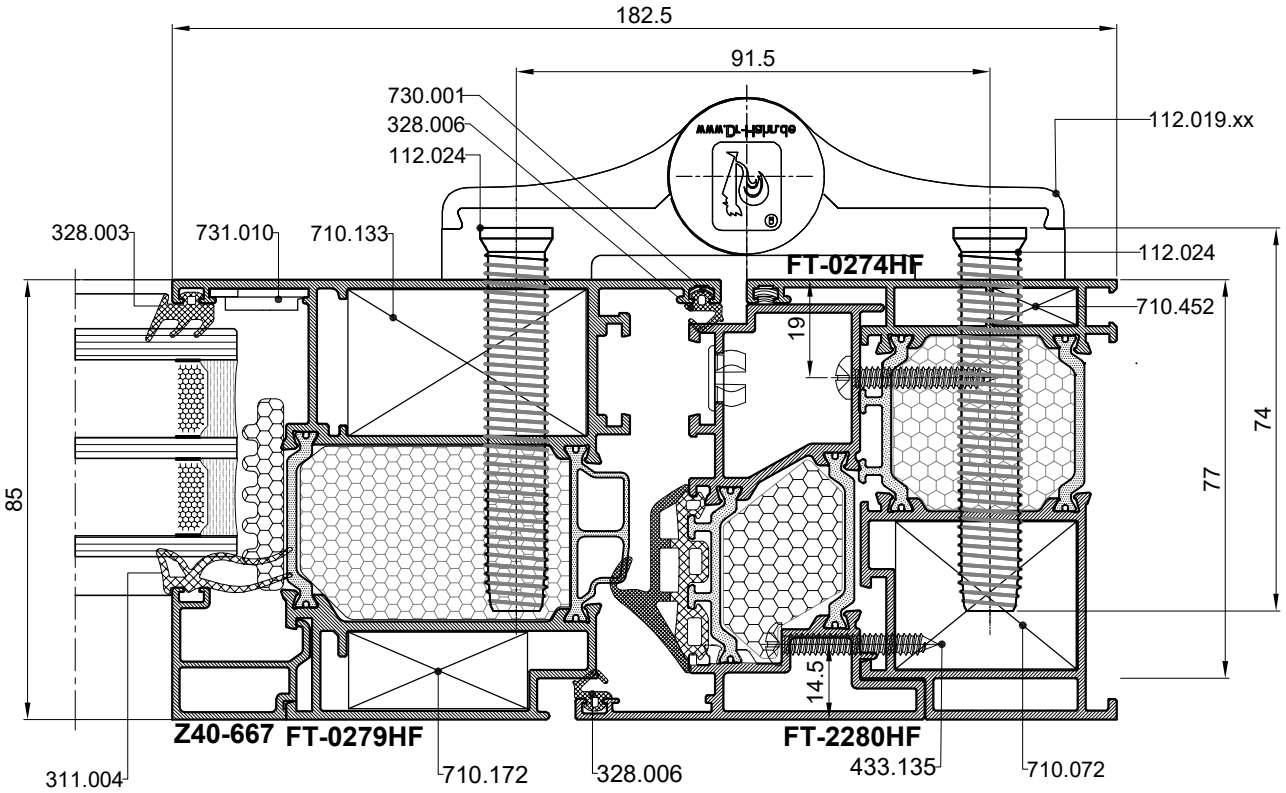


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)



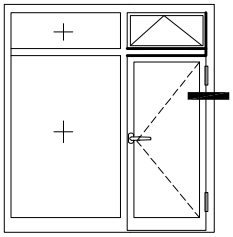


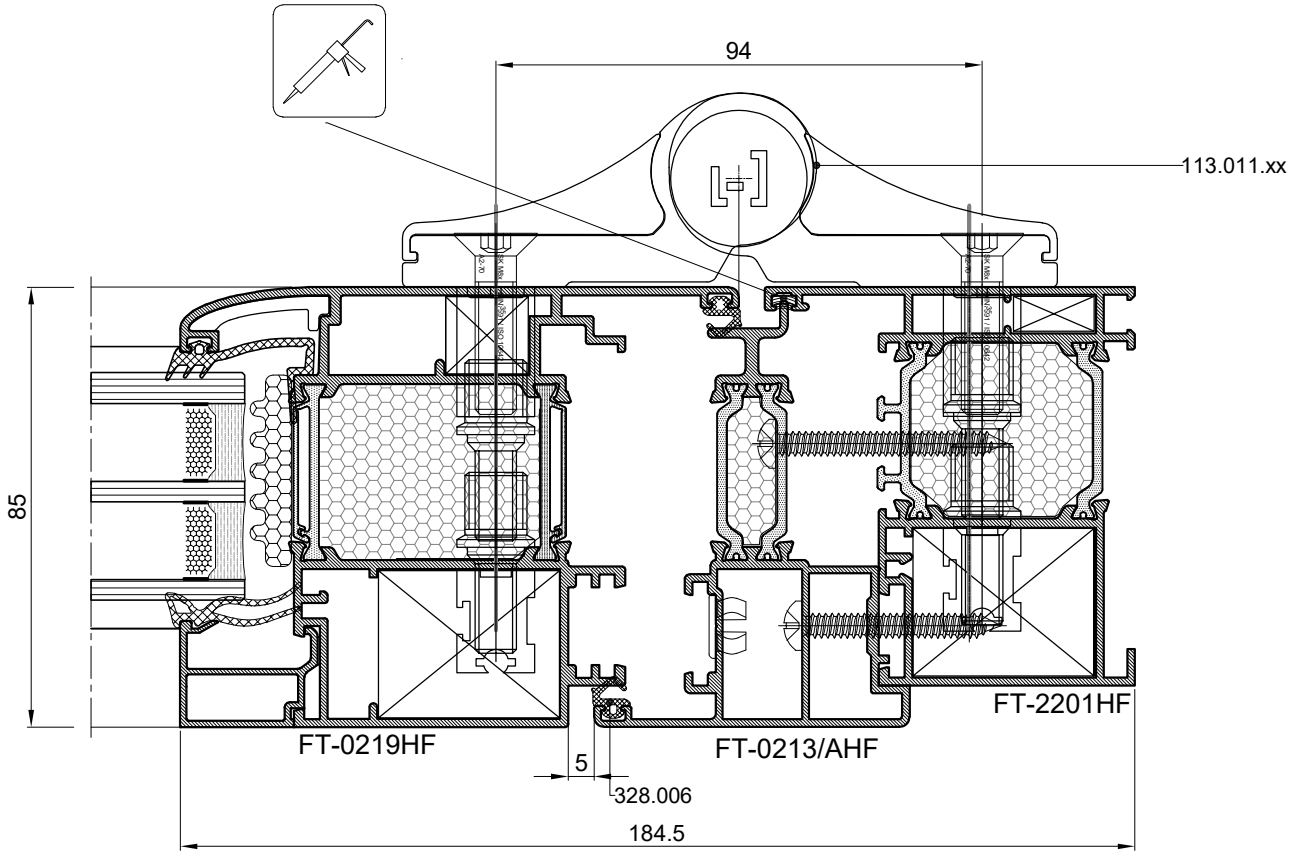






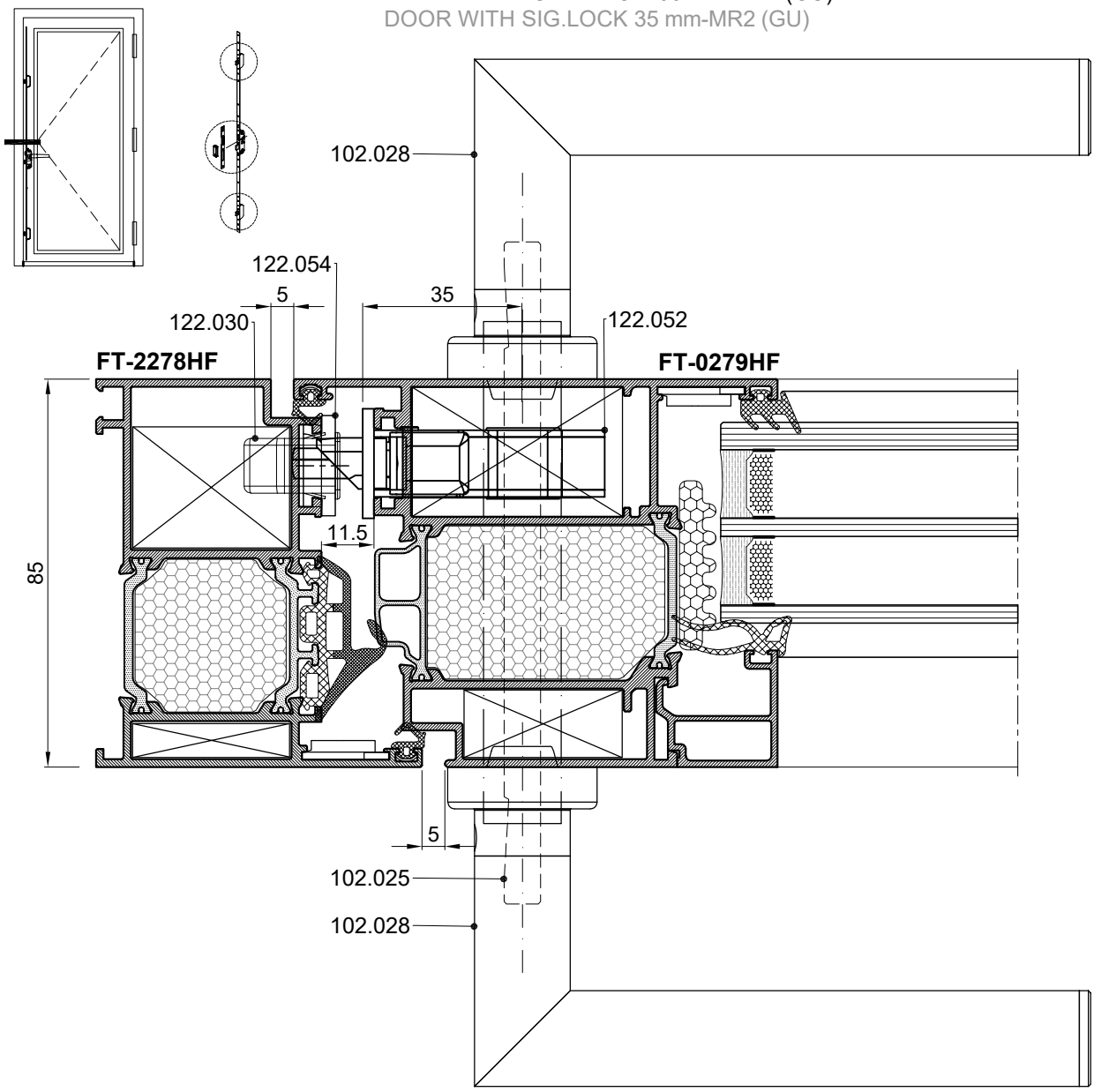
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

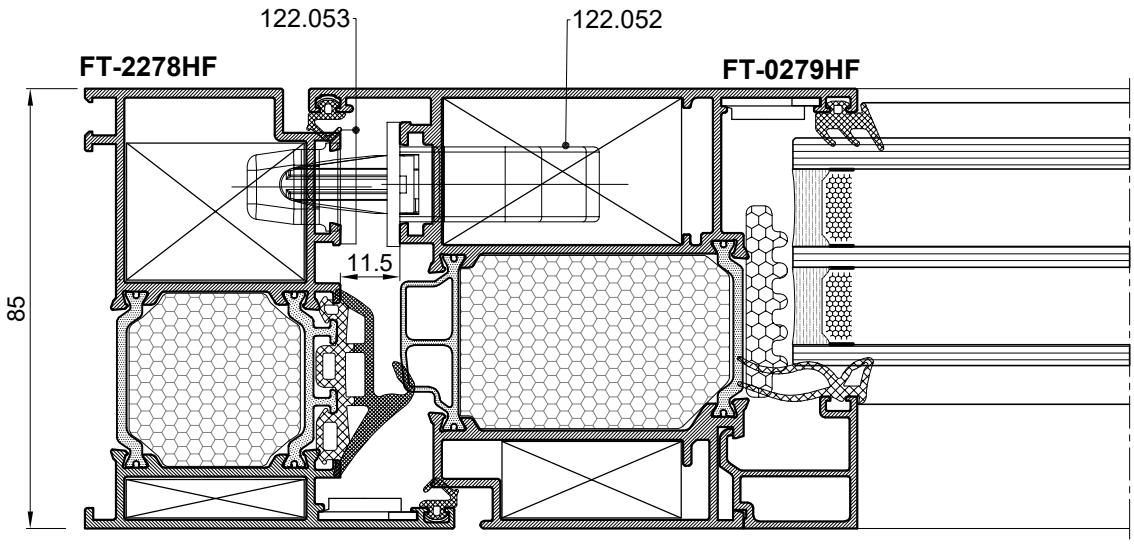




ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

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

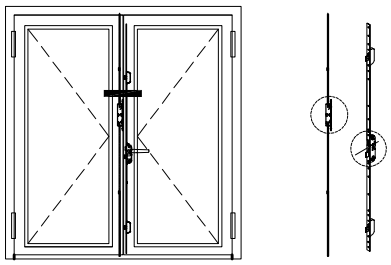


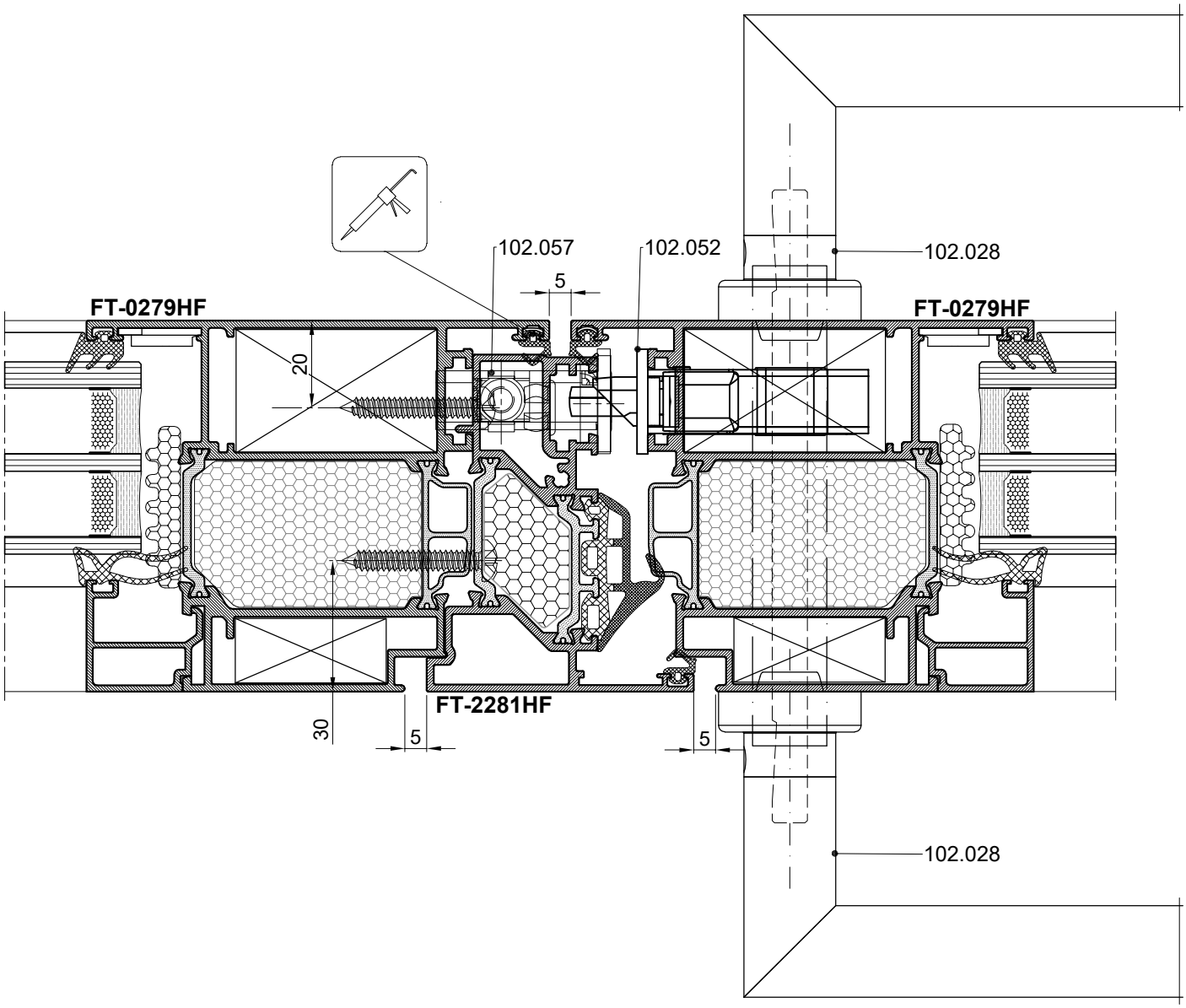




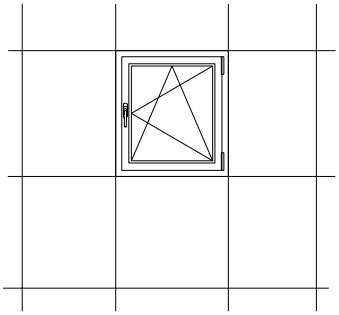
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

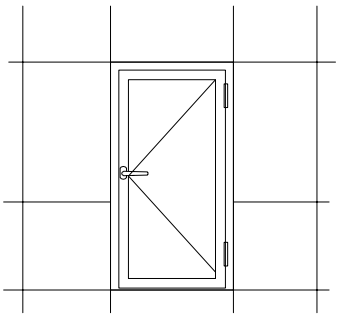
VRATA SA SIG.BRAVOM 35 mm-MR2 (GU)
DOOR WITH SIG.LOCK 35 mm-MR2 (GU)

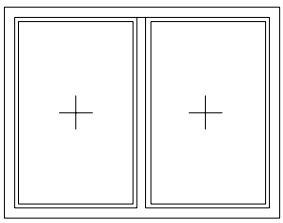


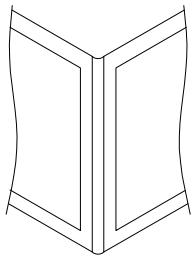


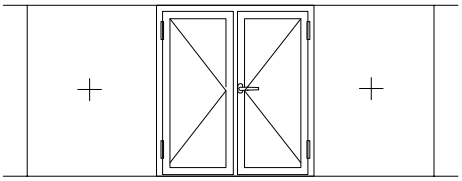
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

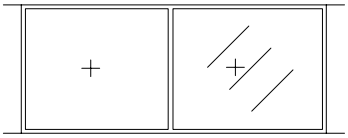


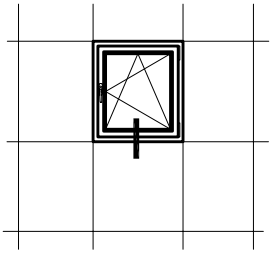




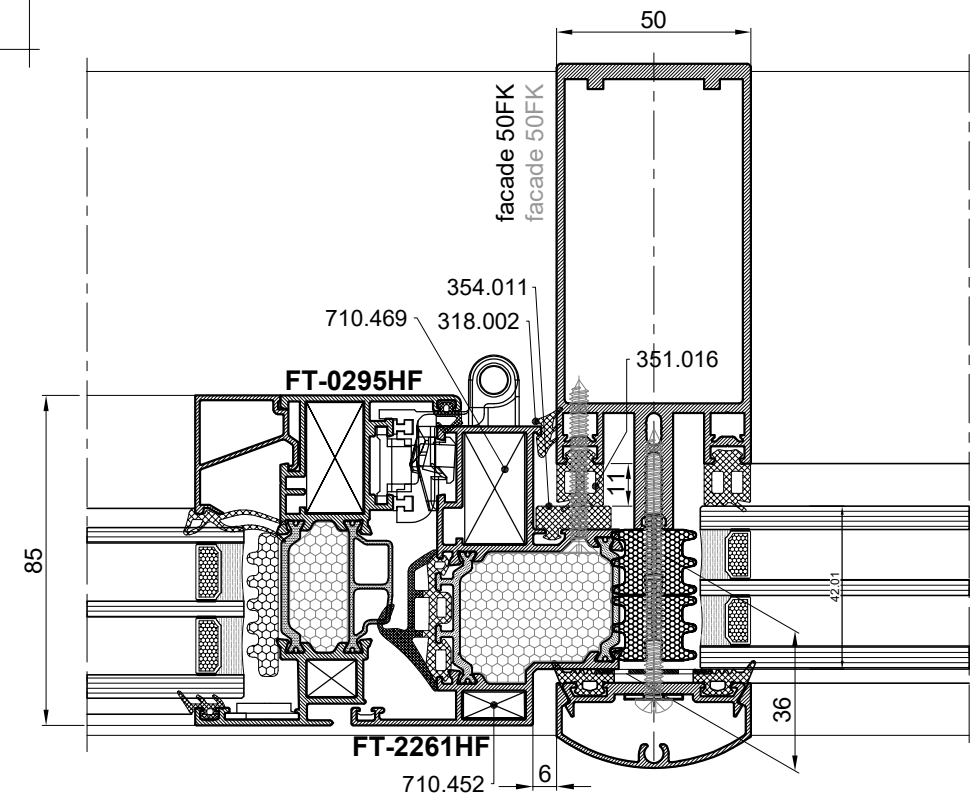


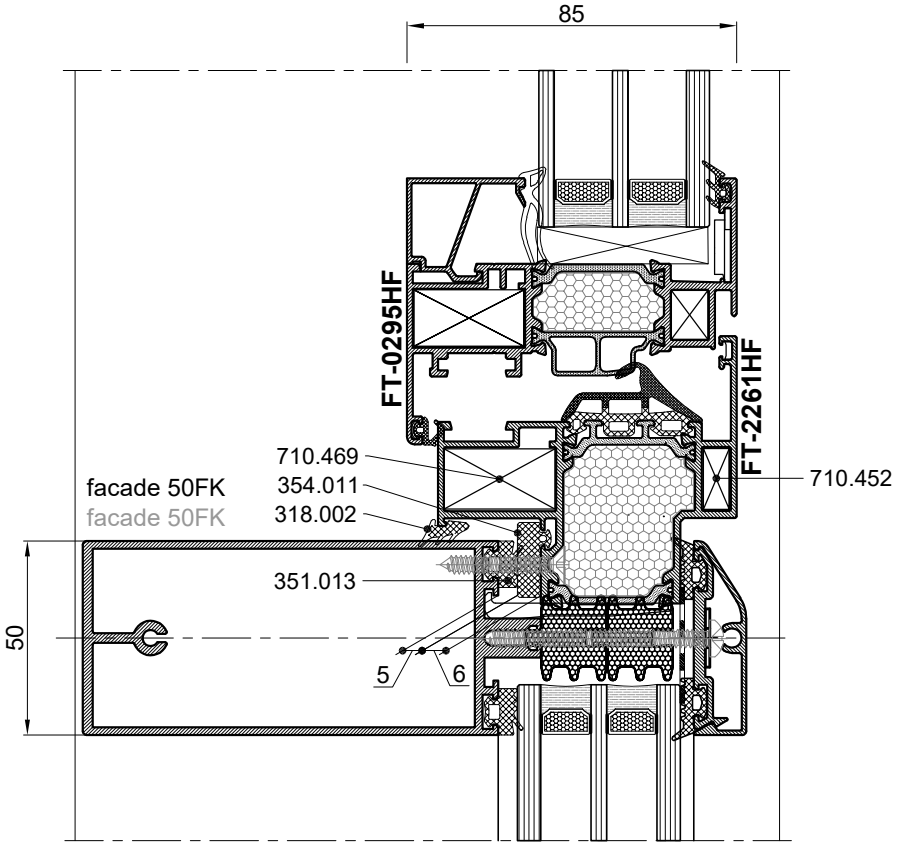




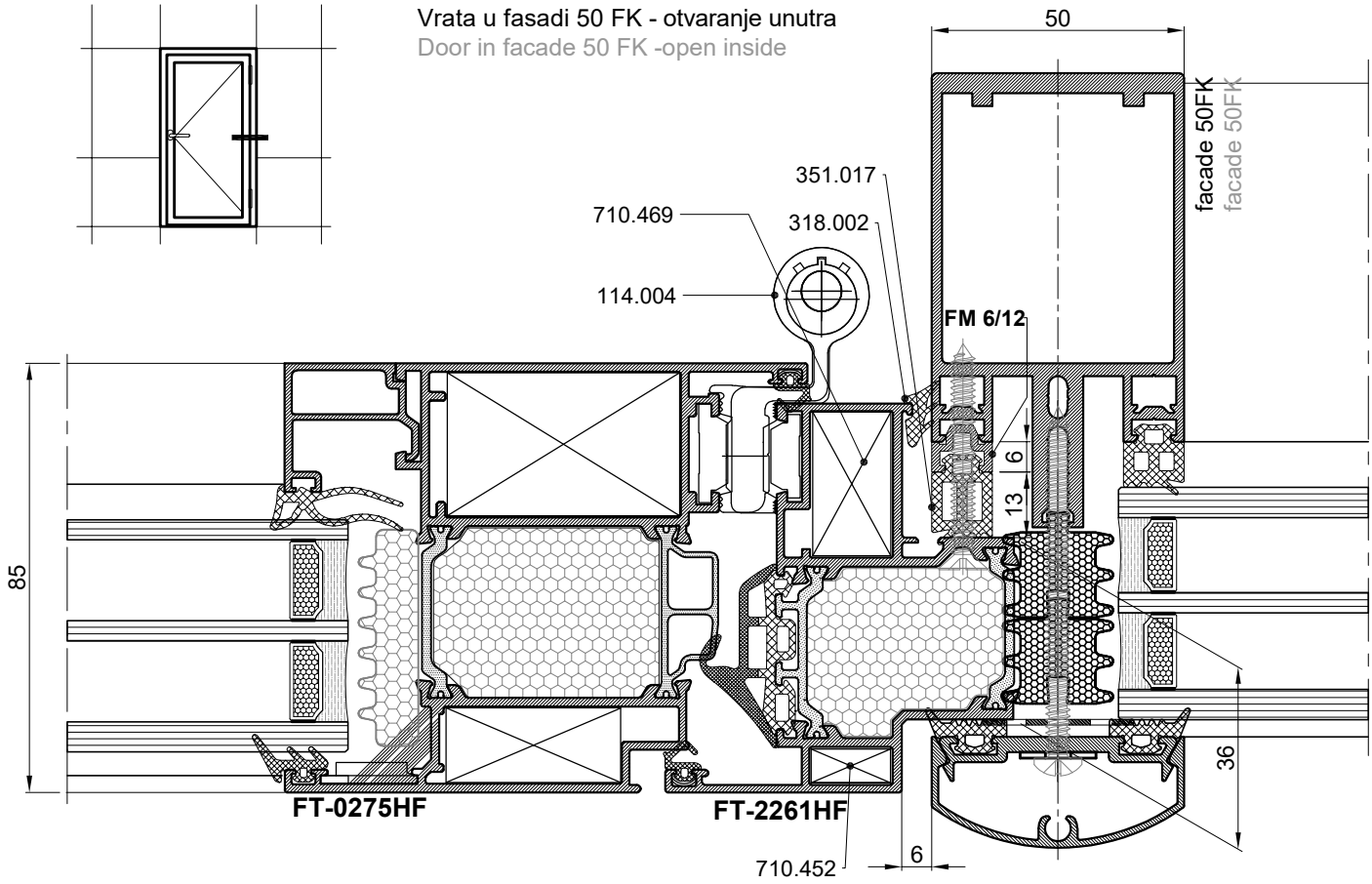


Prozor u fasadi 50 FK
Window in facade 50 FK

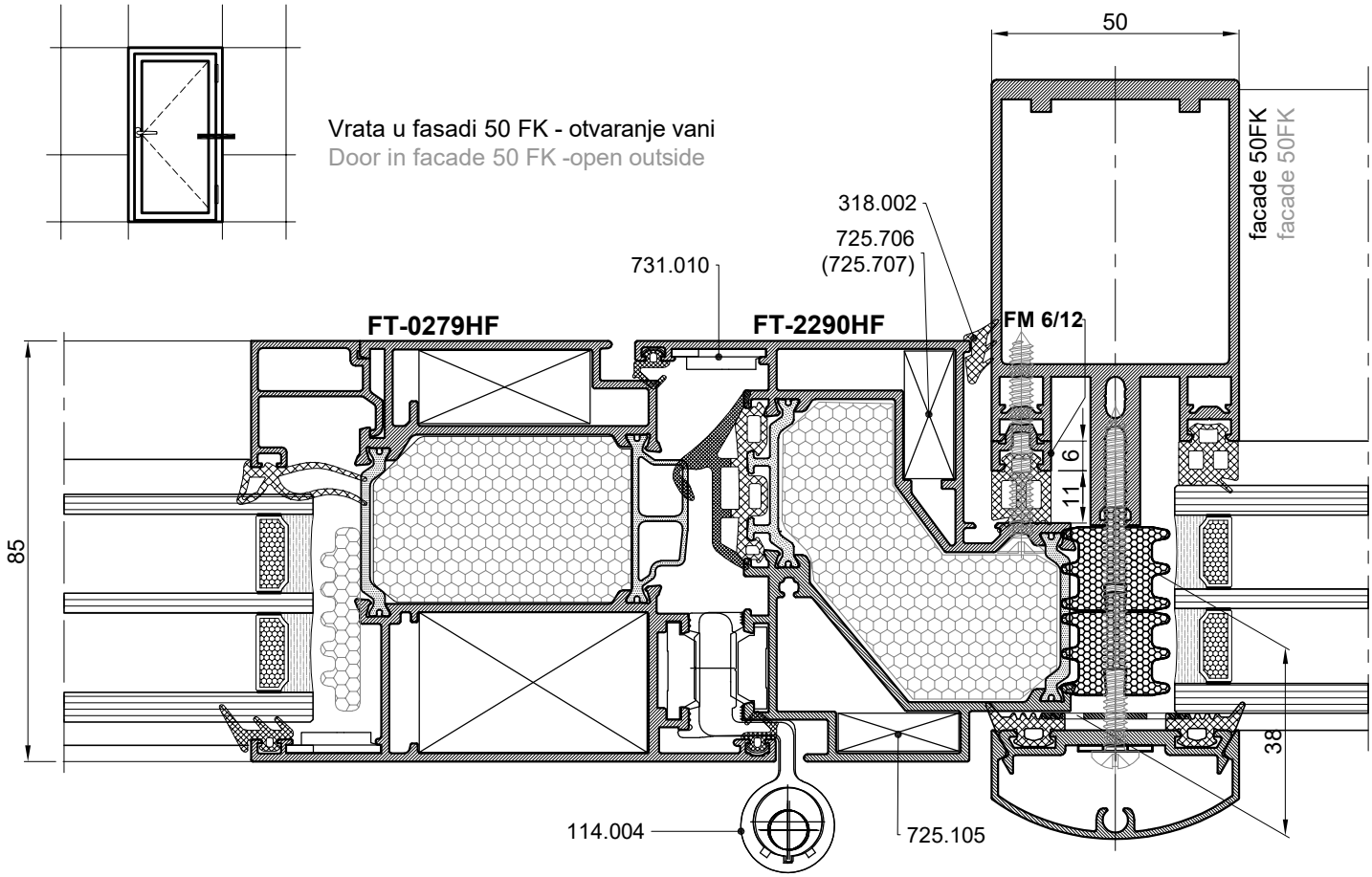


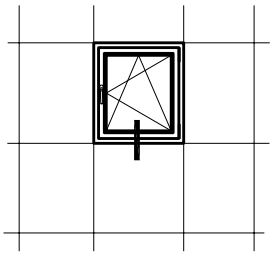


Vrata u fasadi 50 FK - otvaranje unutra
Door in facade 50 FK -open inside

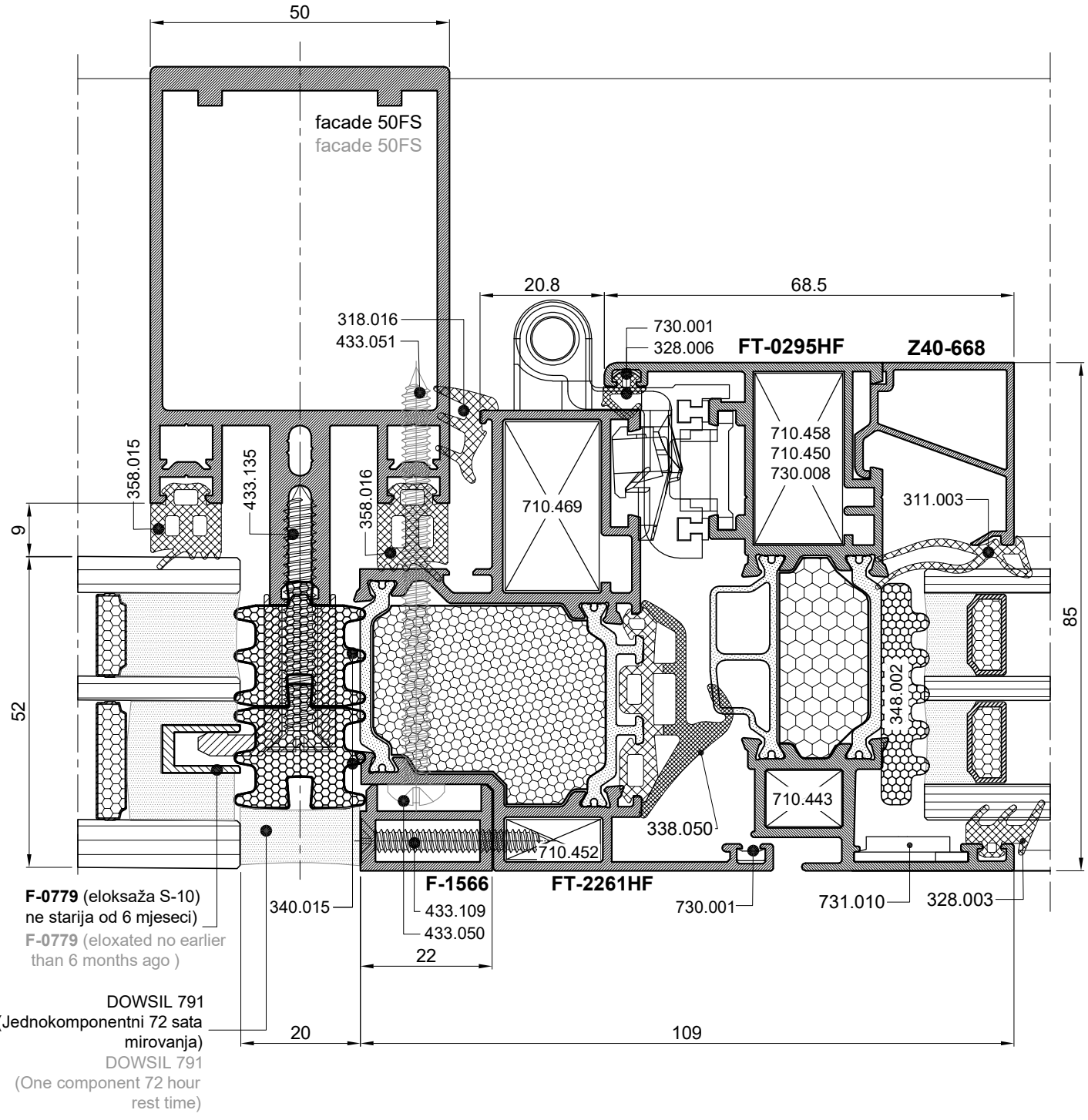


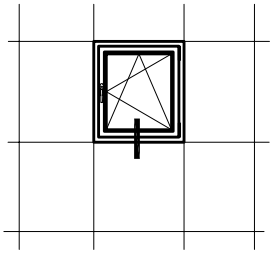
Vrata u fasadi 50 FK - otvaranje vani
Door in facade 50 FK -open outside



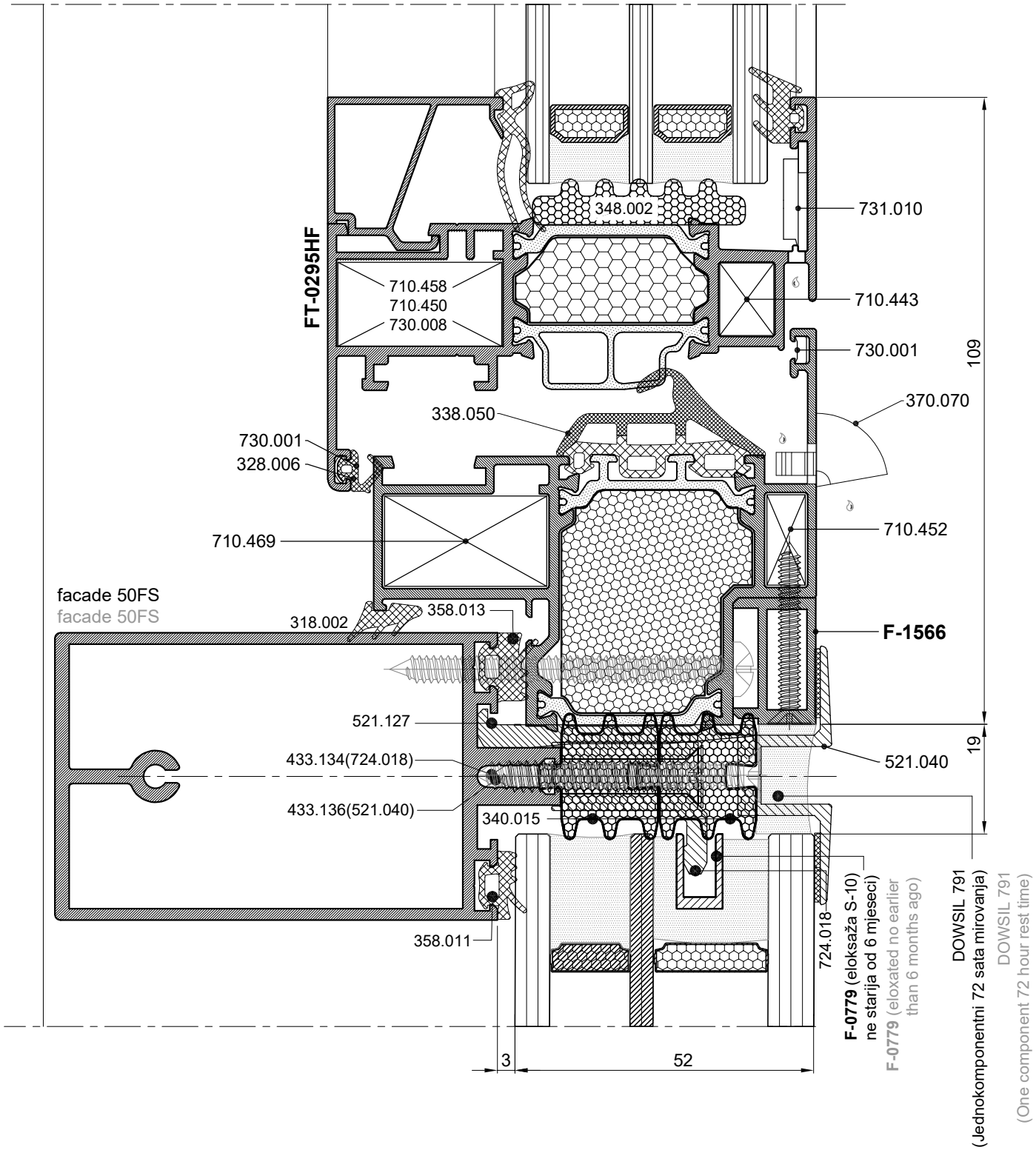


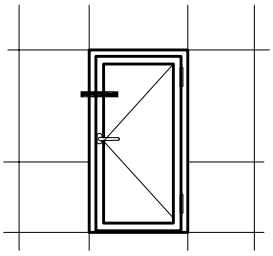
Prozor u fasadi 50 FS
Window in facade 50 FS



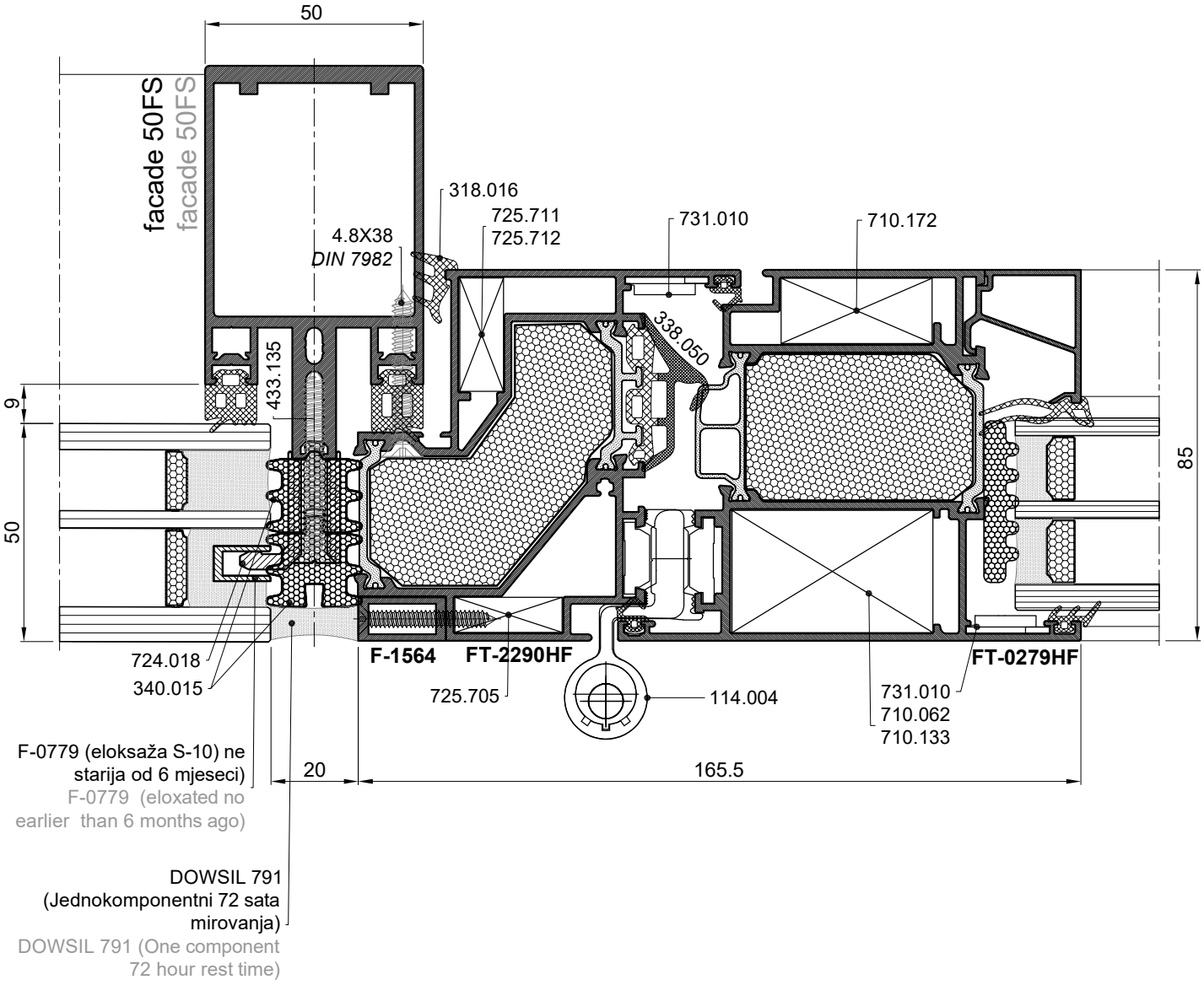


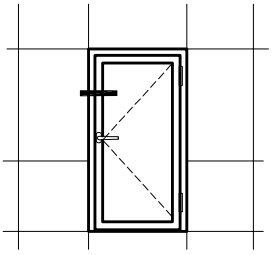
Prozor u fasadi 50 FS
Window in facade 50 FS



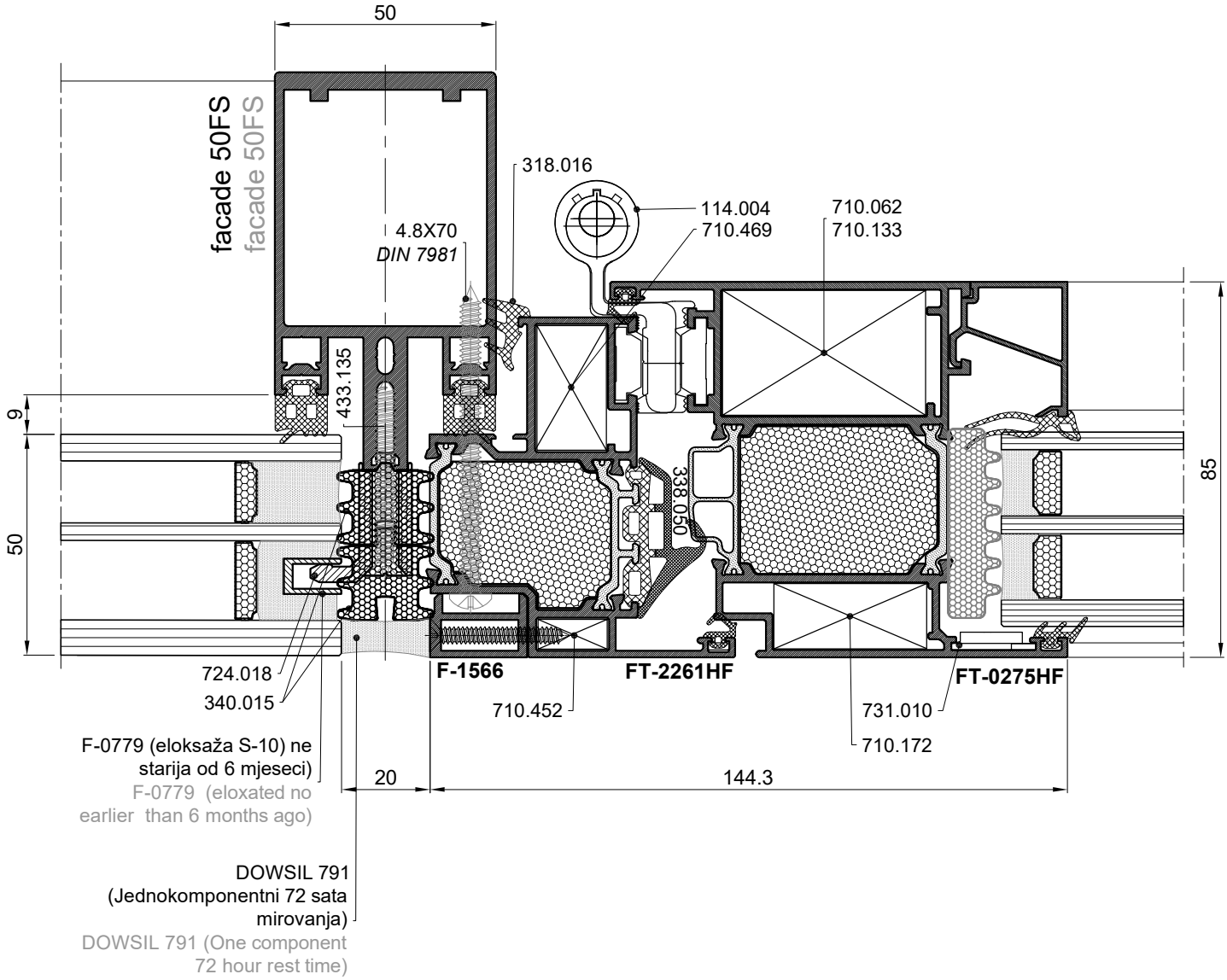


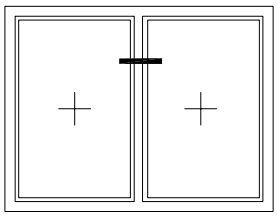
Vrata u fasadi 50 FS - otvaranje vani
Door in facade 50 FS -open outside

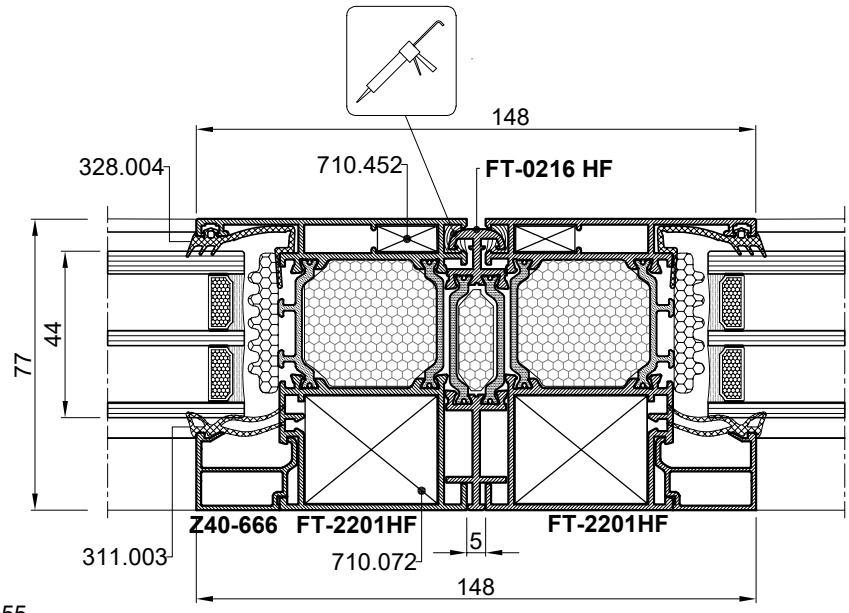


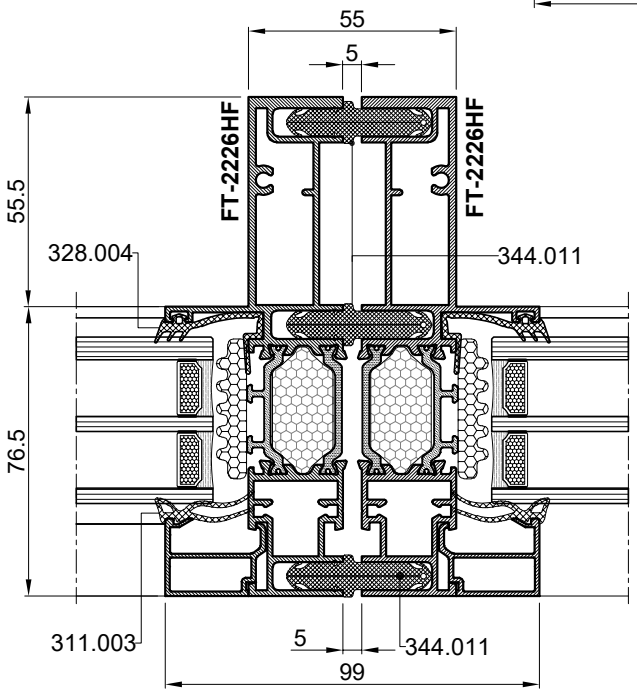


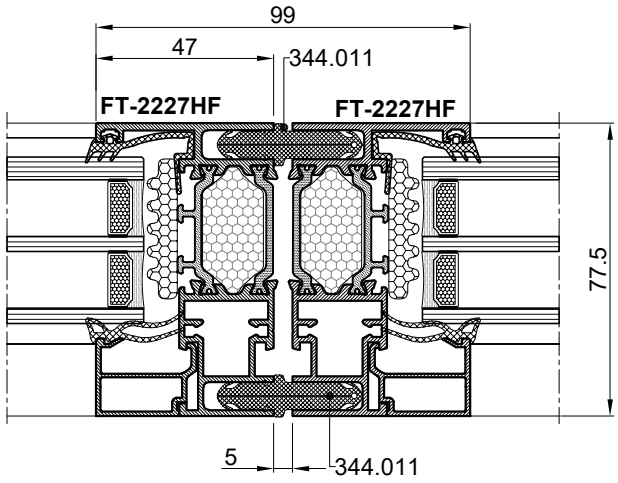
Vrata u fasadi 50 FS - otvaranje unutra
Door in facade 50 FS -open inside

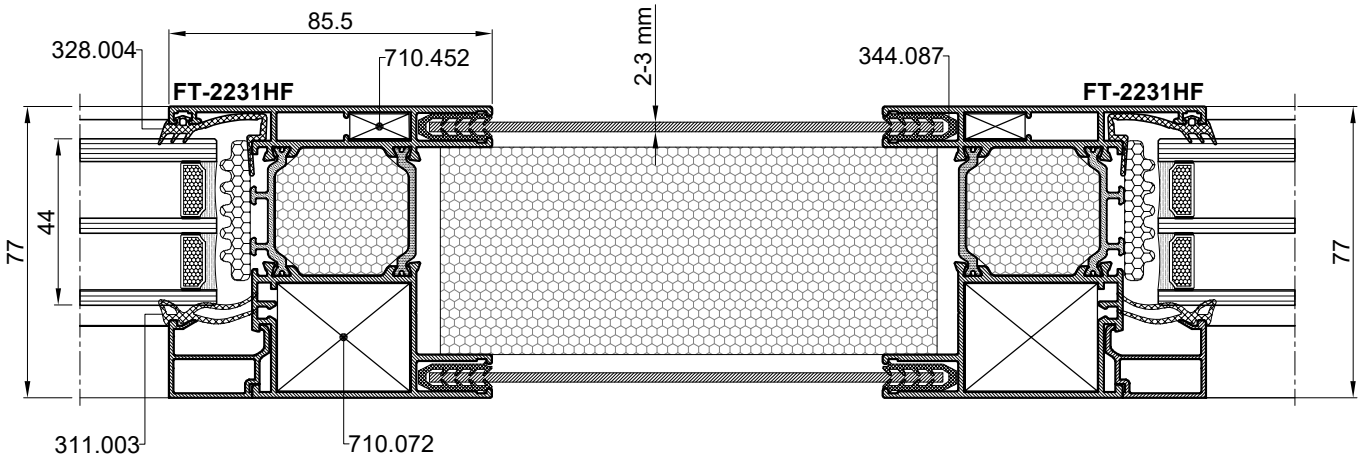








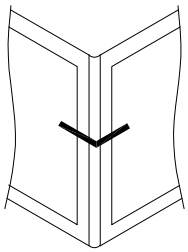


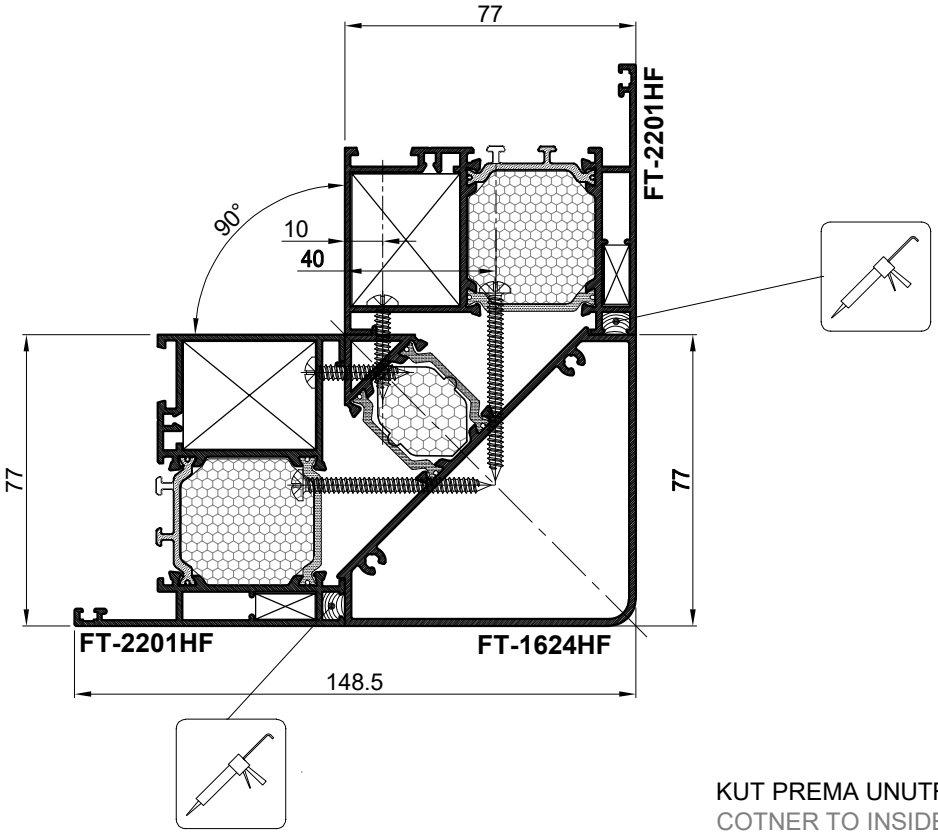




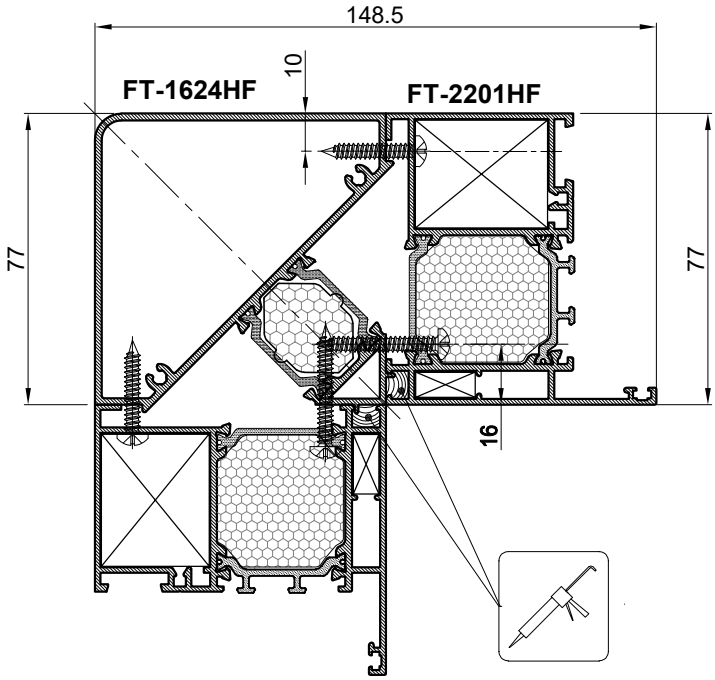
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

KUT PREMA VANI
CORNER TO OUTSIDE



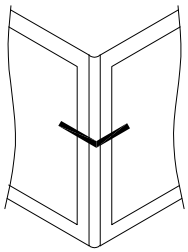


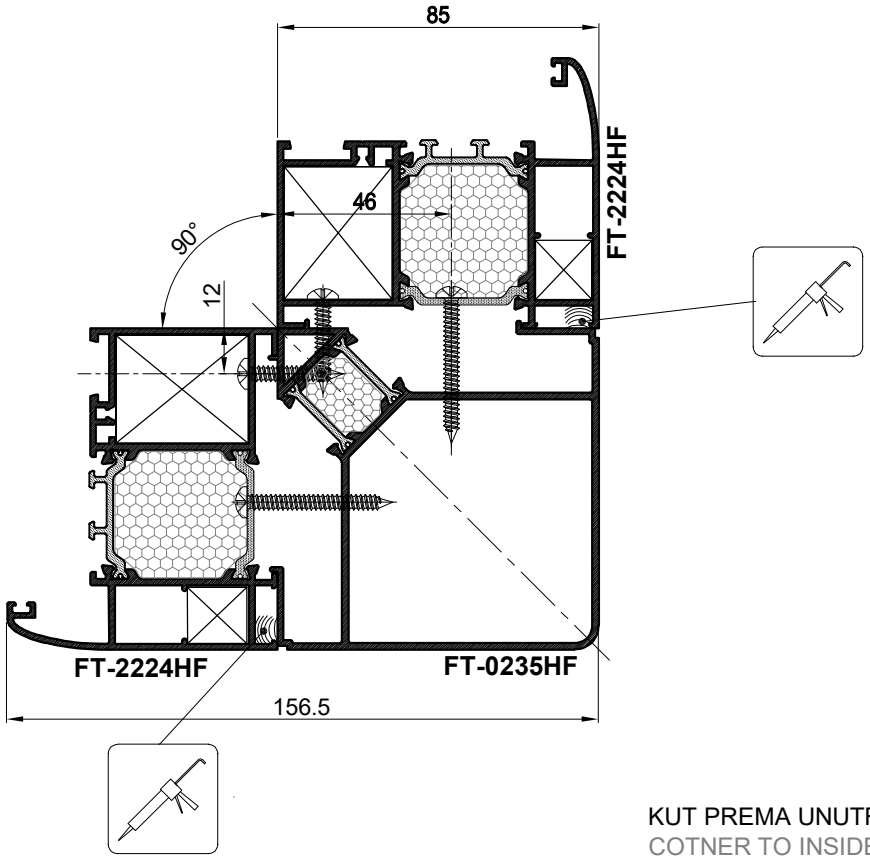
KUT PREMA UNUTRA
COTNER TO INSIDE



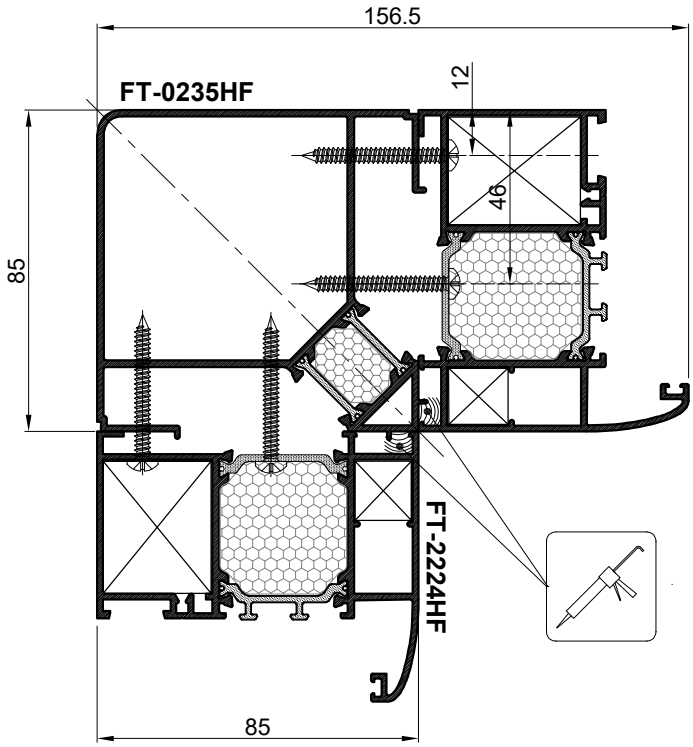
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

KUT PREMA VANI
CORNER TO OUTSIDE

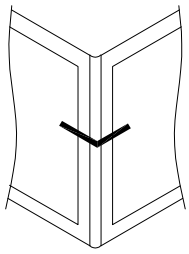




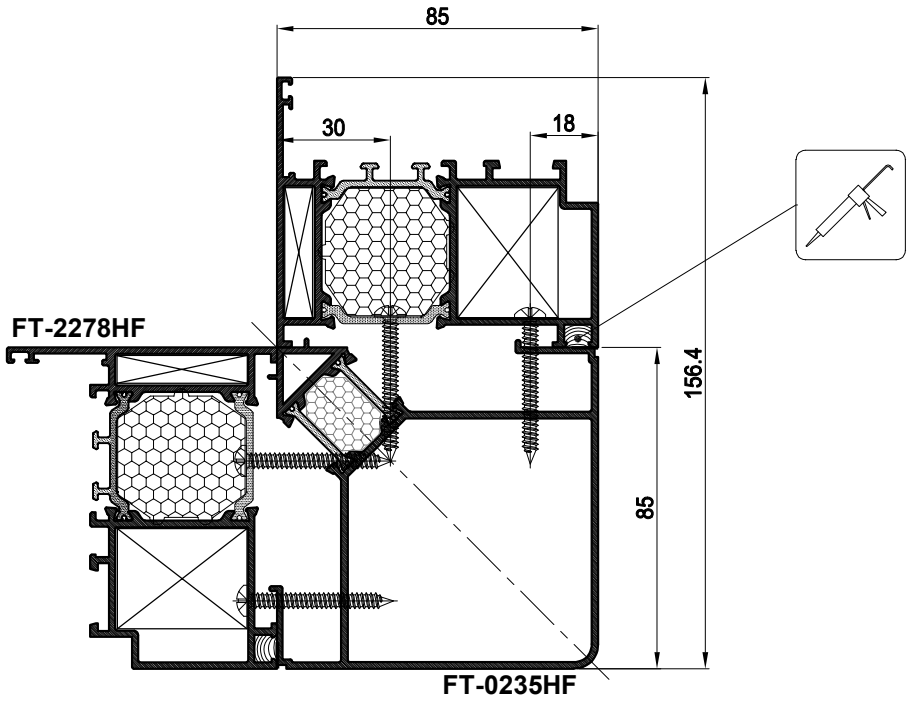
KUT PREMA UNUTRA
COTNER TO INSIDE



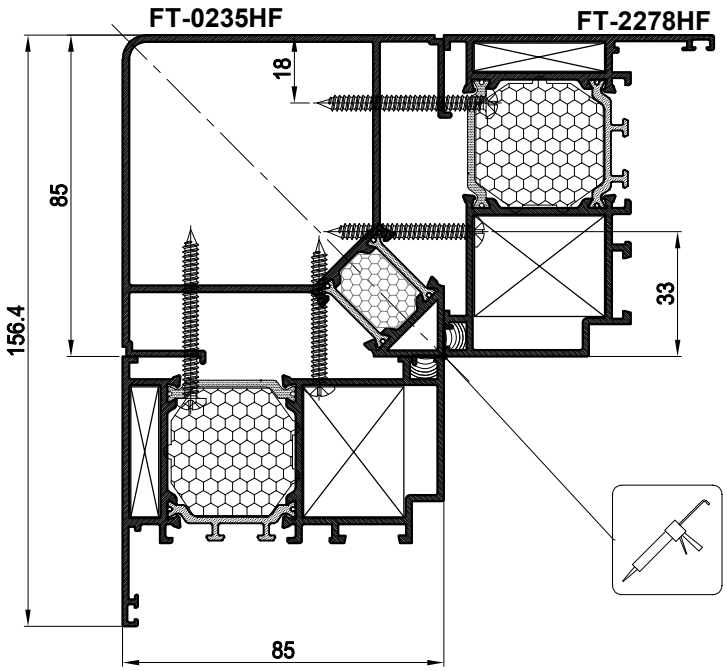
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)



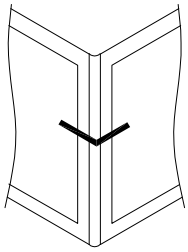
KUT PREMA VANI
CORNER TO OUTSIDE

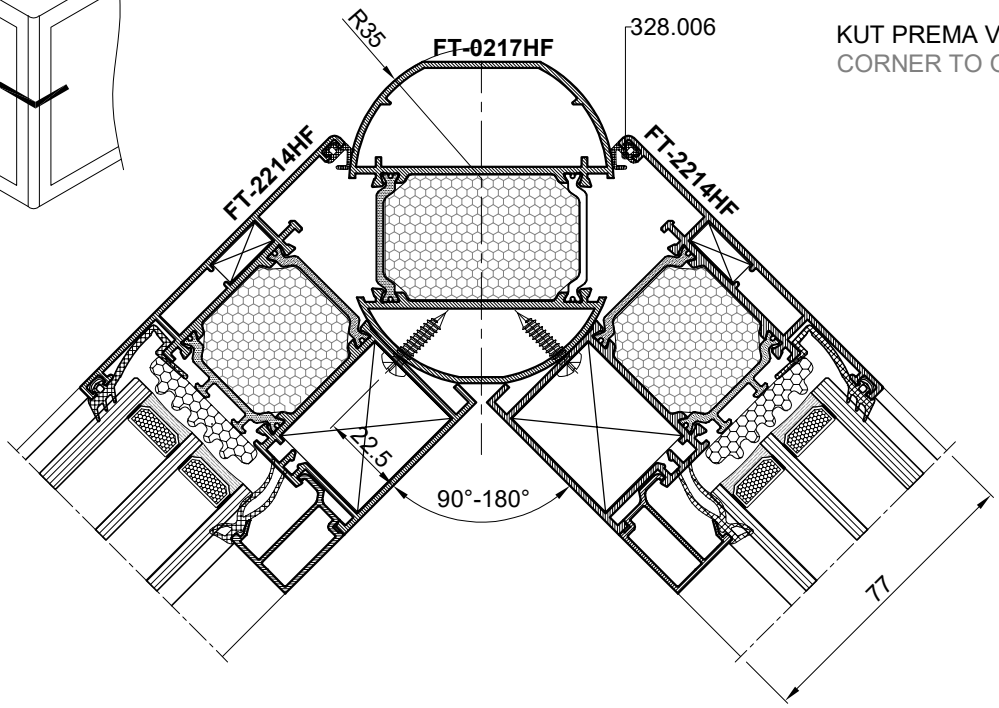


KUT PREMA UNUTRA
CORNER TO INSIDE

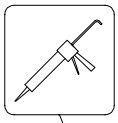


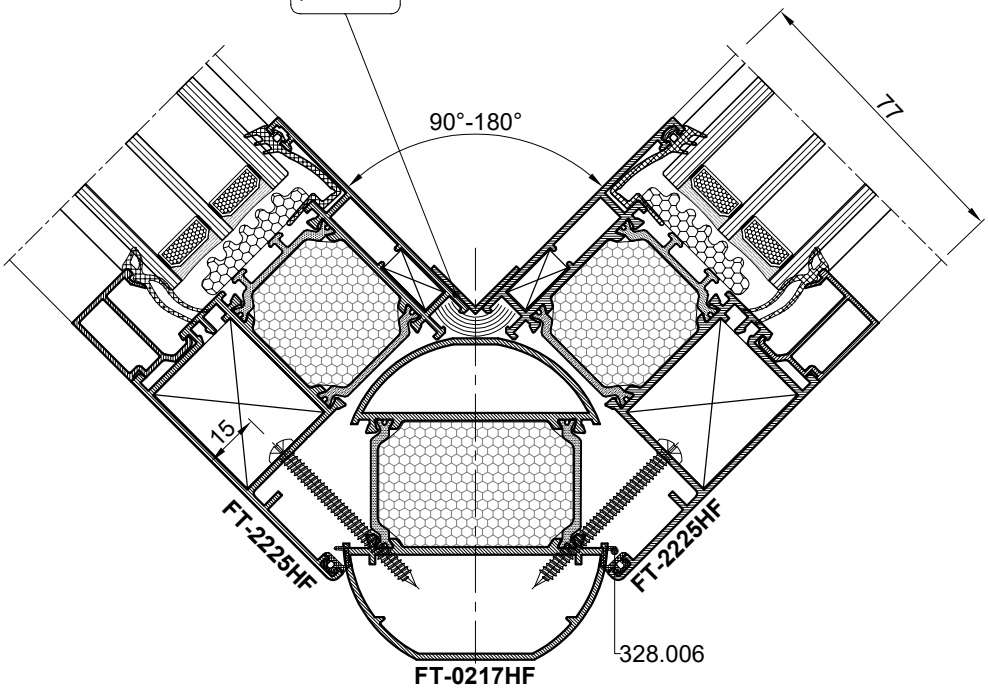
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)





KUT PREMA VANI
CORNER TO OUTSIDE



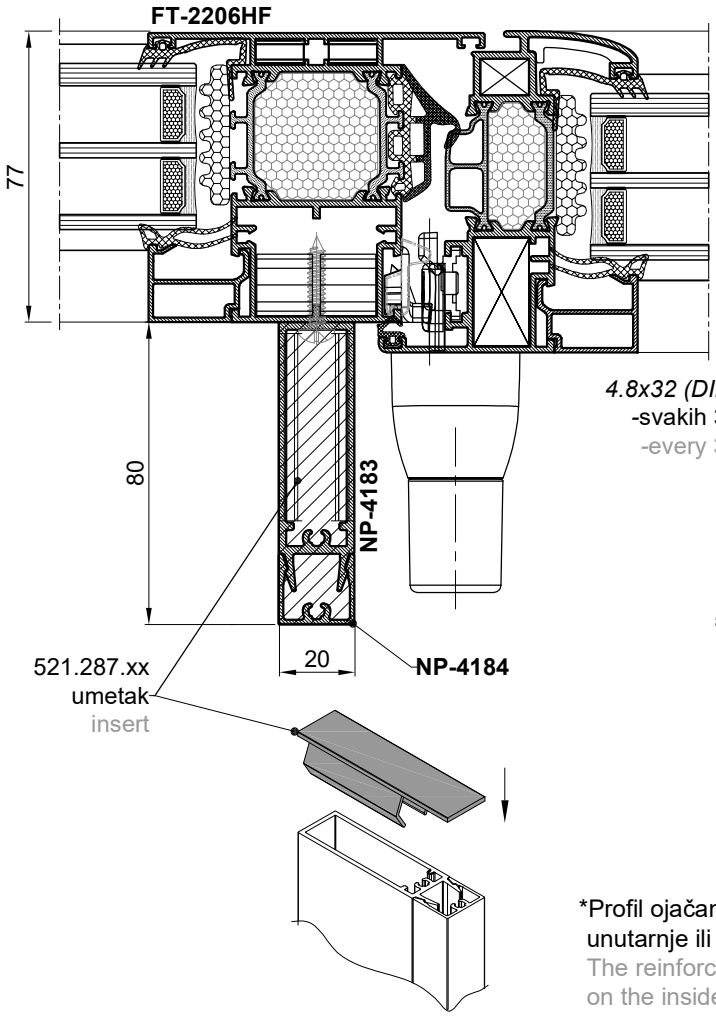


KUT PREMA UNUTRA
COTNER TO INSIDE

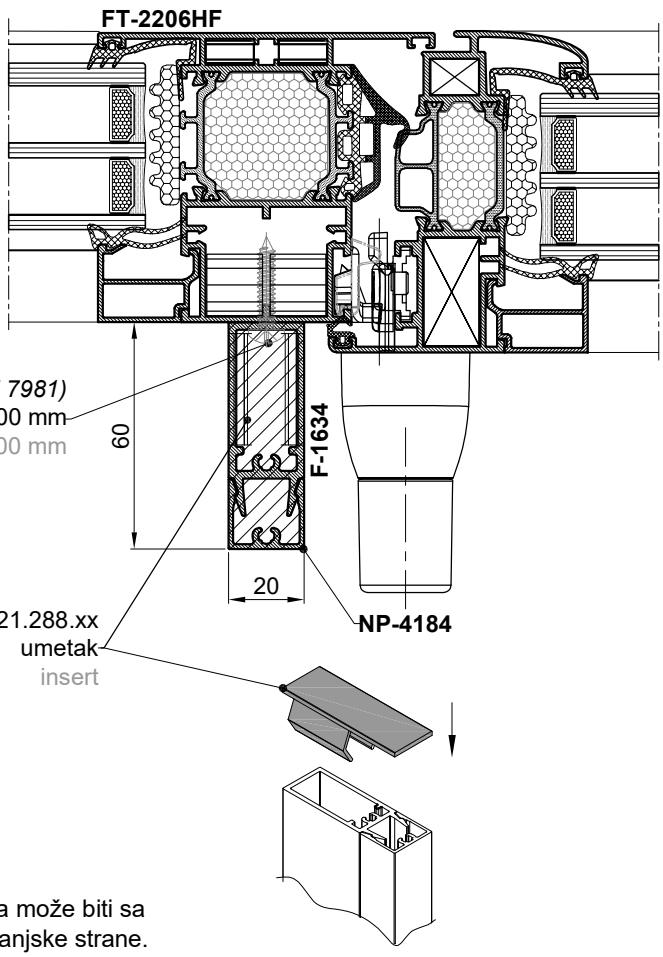


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

Ojačanje 80 mm
Reinforcement 80 mm

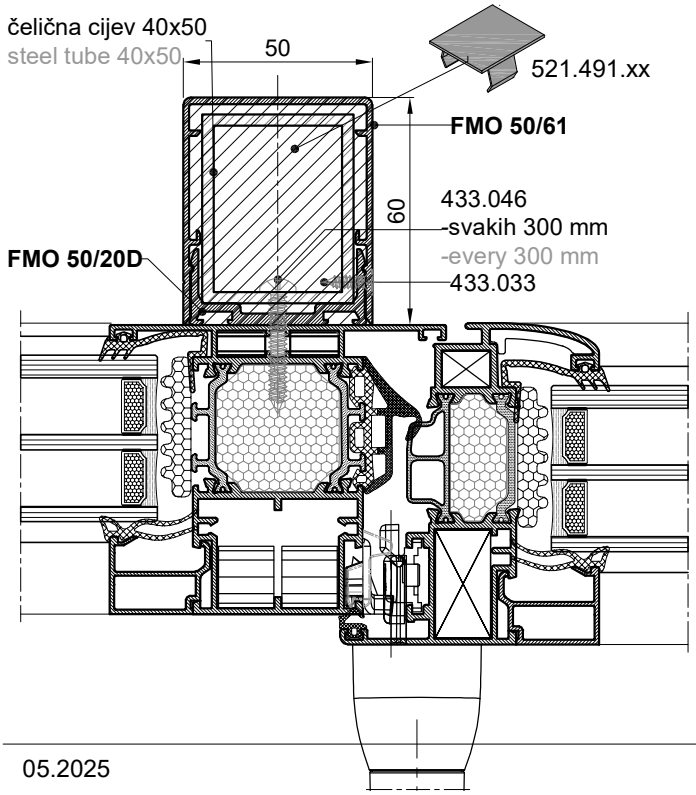


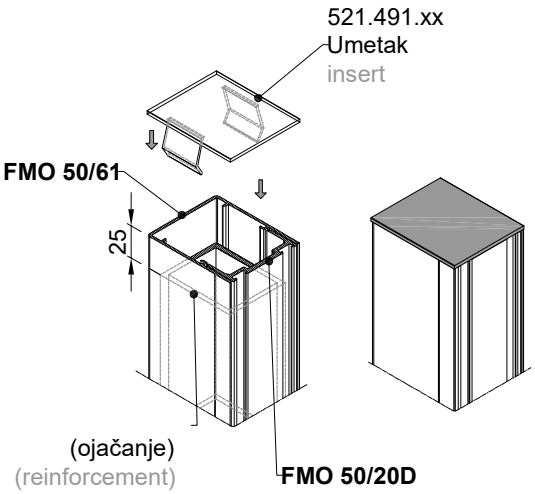
Ojačanje 60 mm
Reinforcement 60 mm



*Profil ojačanja može biti sa unutarnje ili vanjske strane.
The reinforcement profile can be place on the inside or on the outside.

Ojačanje sa čeličnom cijevi
Reinforcement with steel tube

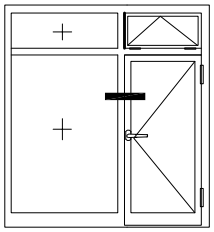


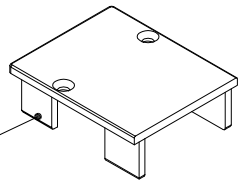


-Profil FMO 50/61 (maska ojačanja) mora biti 50 mm duži od profila ojačanja.
-FMO 50/61 profile (reinforcement mask) must be 50 mm longer than the reinforcement profile.

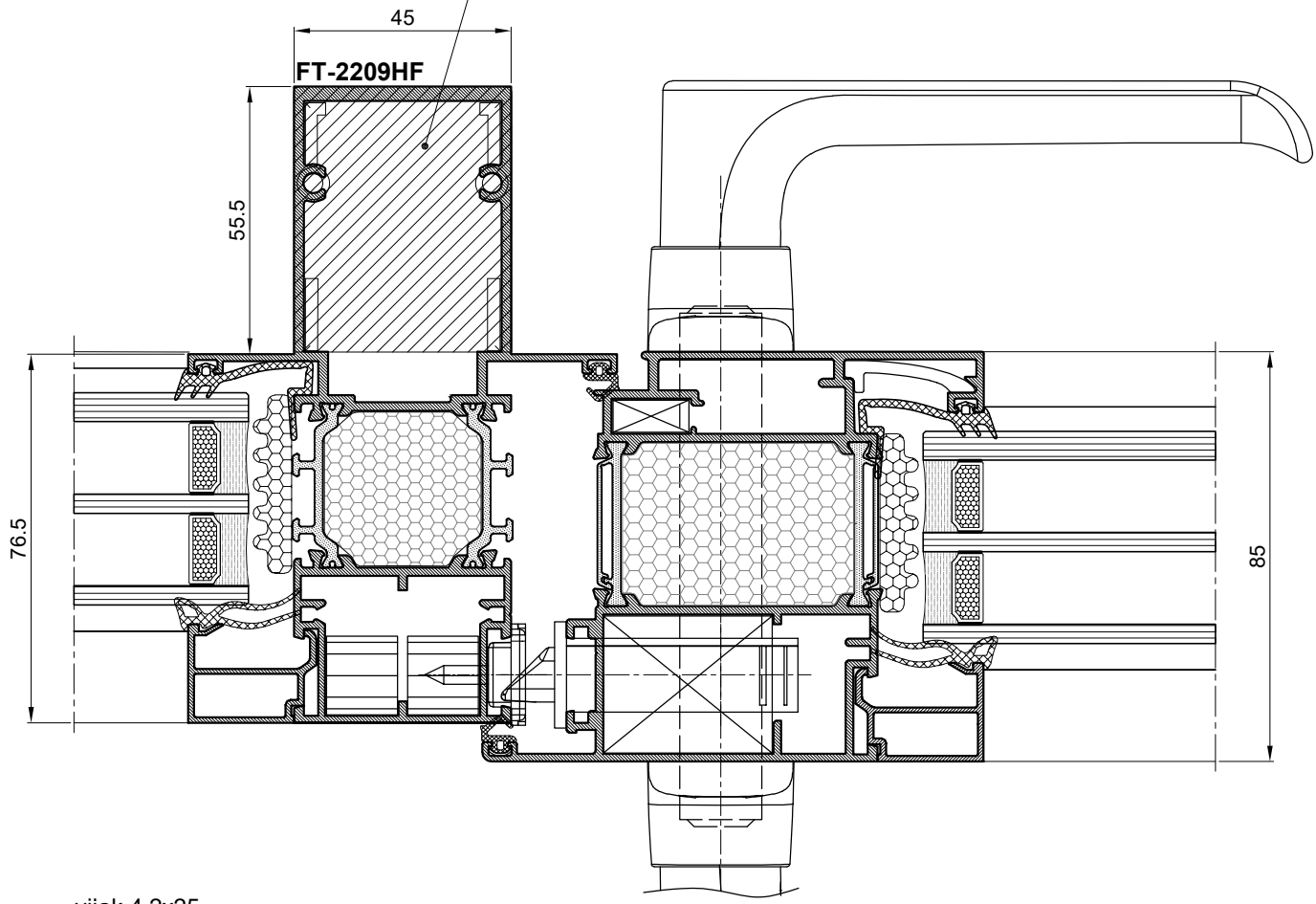
*Ojačanje sa čeličnom cijevi ide na vanjsku stranu profila prečke.
Reinforcement with steel tube goes to the exterior side of window crossbar.

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

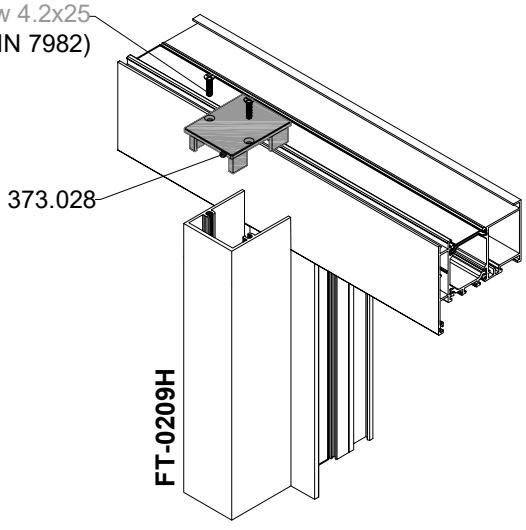


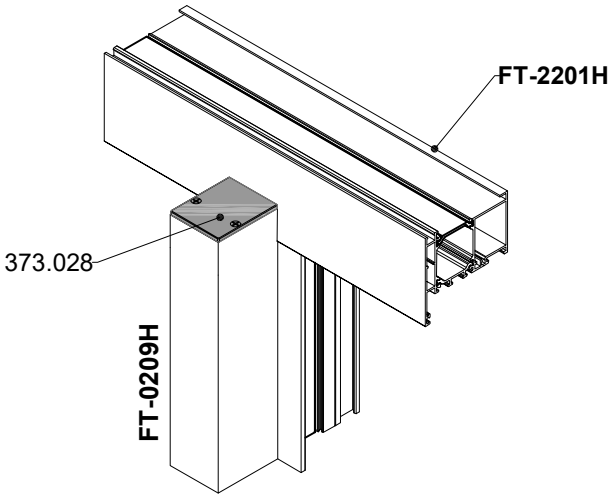


pvc umetak
pvc insert
art.**373.028**

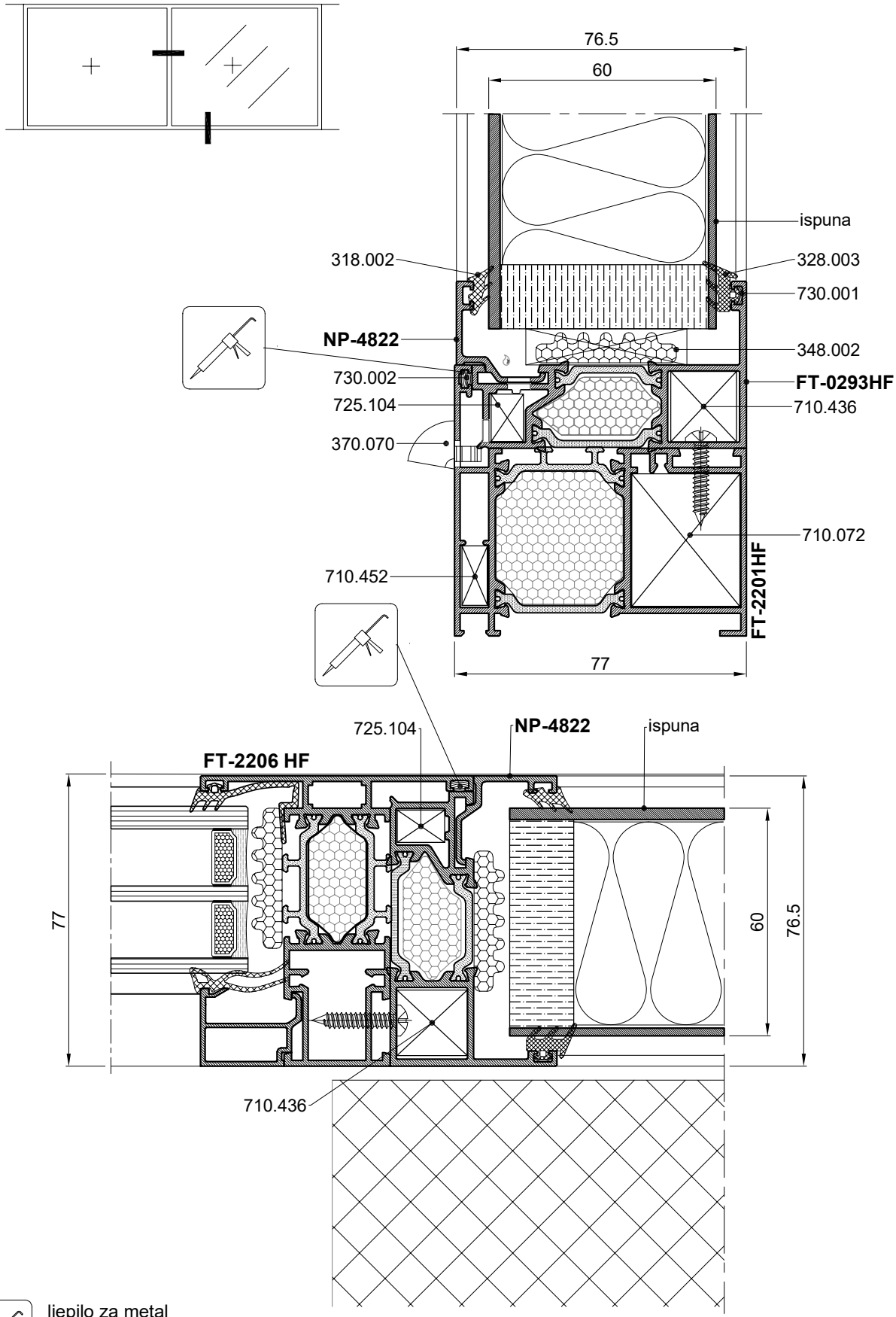


vijak 4.2x25
screw 4.2x25
(DIN 7982)

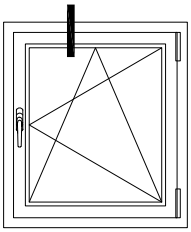




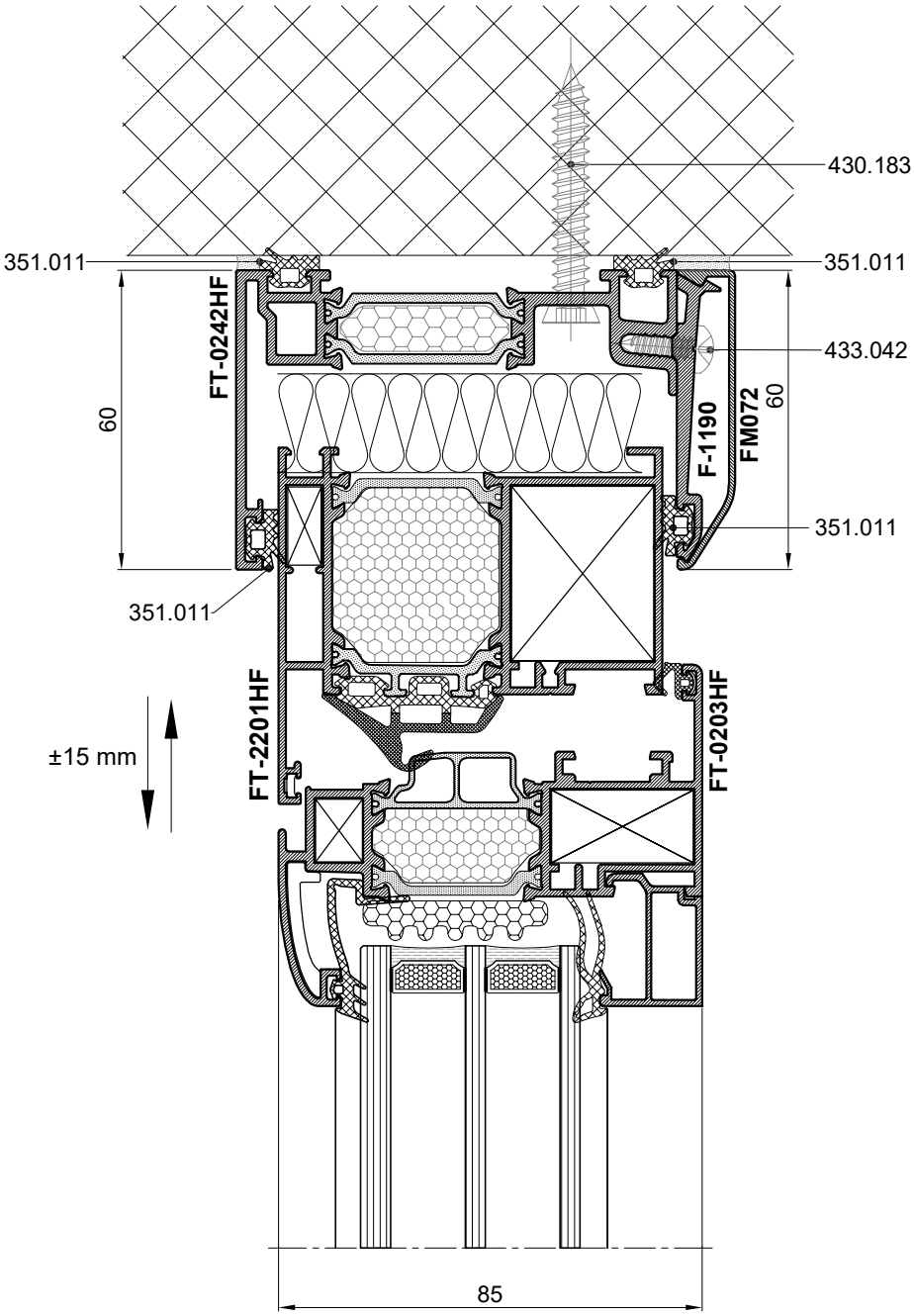
Detalj ostakljivanja s vanjske strane
Detail of glazing on the outside

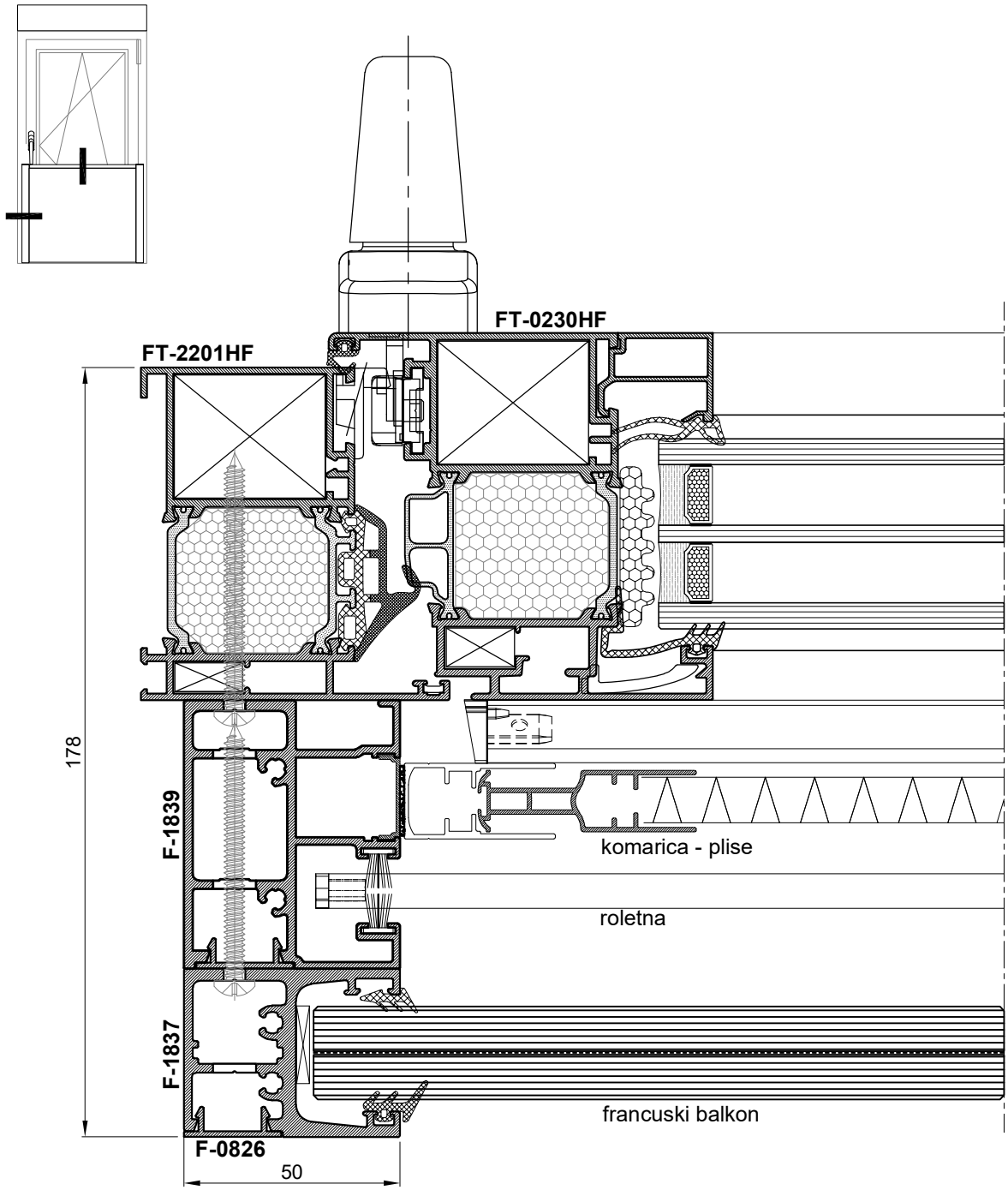


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)



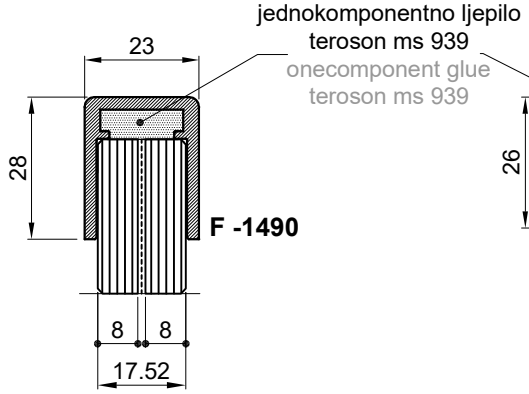
PROFIL ZA UGRADNJU
INSTALATION PROFILE



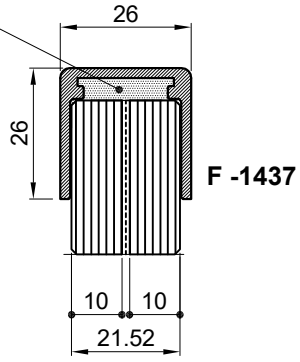


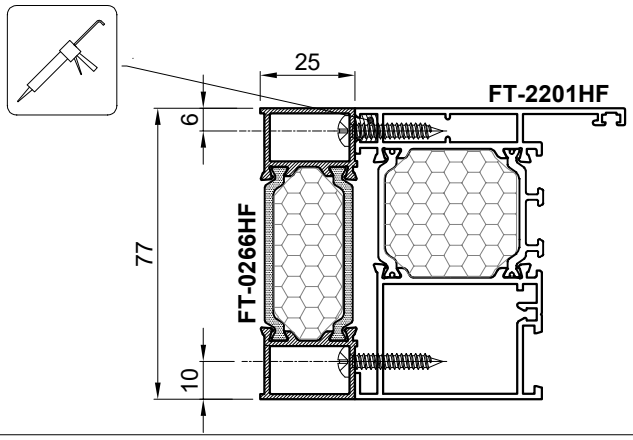
RUKOHVAT FRANCUSKOG BALKONA

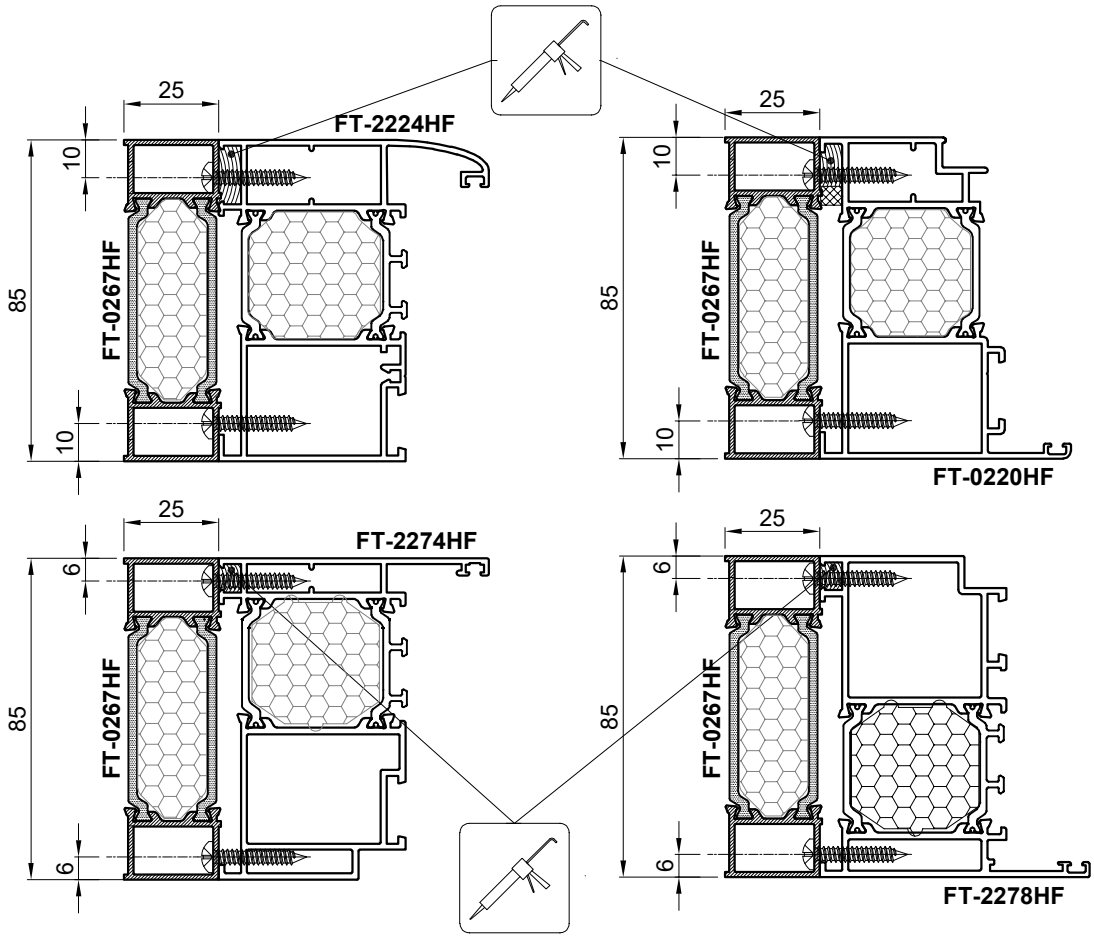
SA STAKLOM 88.4

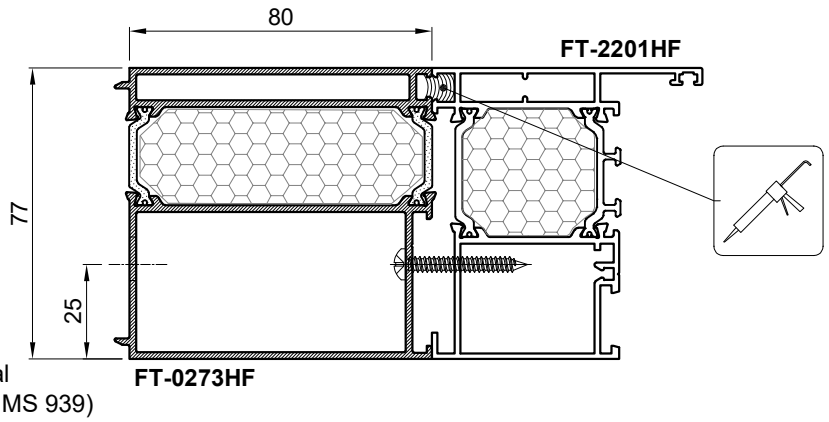


SA STAKLOM 1010.4

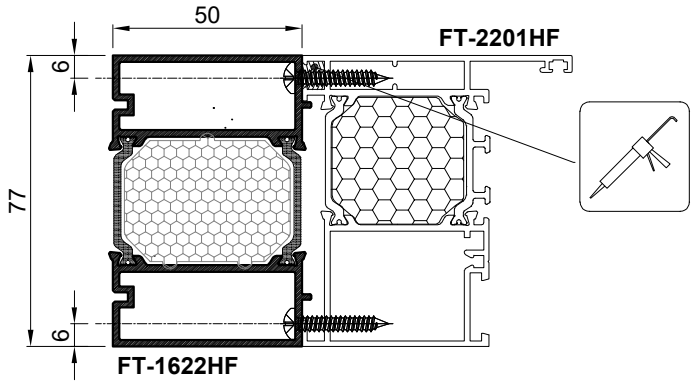


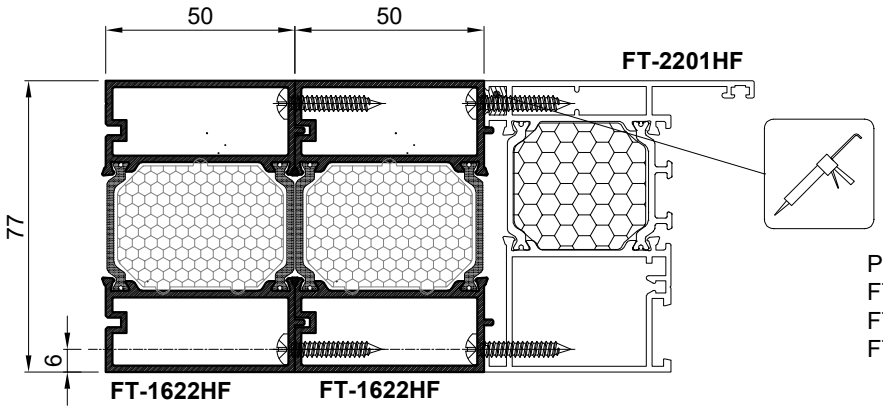




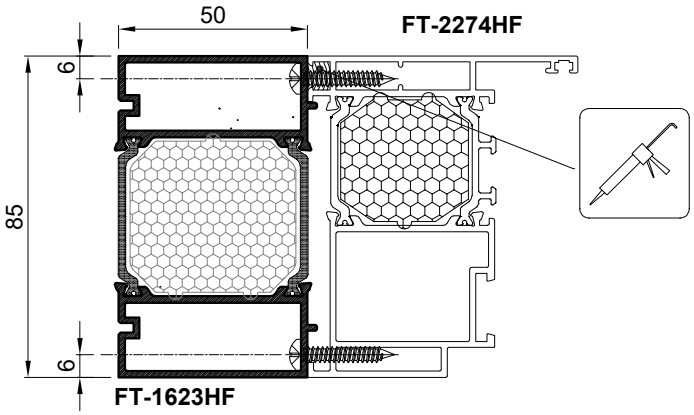


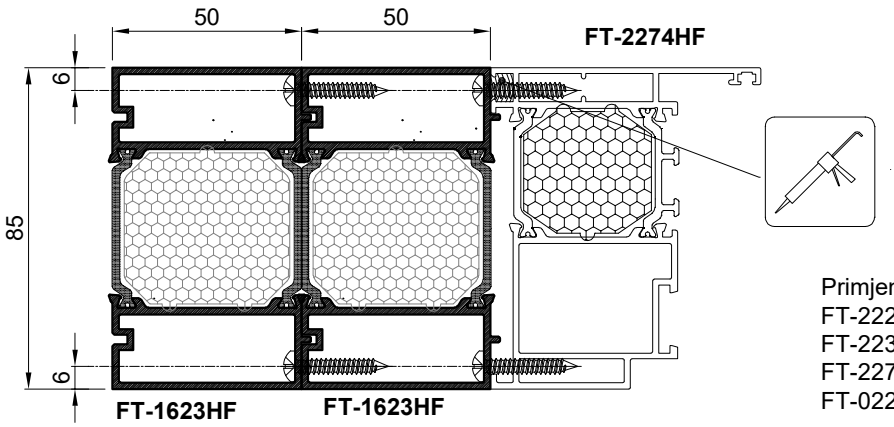
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)





Primjenjivo i za profile:
FT-2287HF
FT-2233HF
FT-2297HF





Primjenjivo i za profile:
FT-2224HF
FT-2234HF
FT-2278HF
FT-0220HF

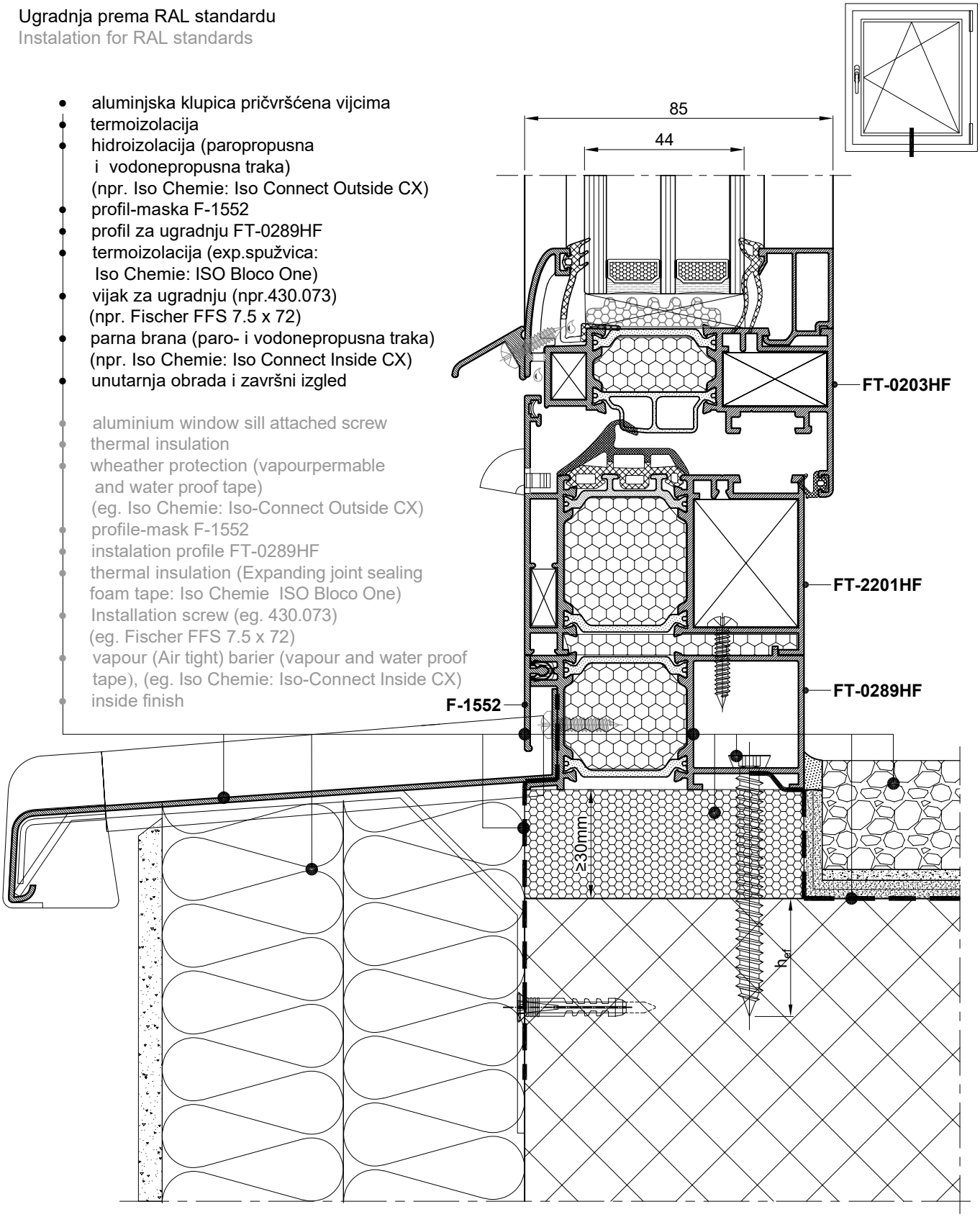


ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)

Ugradnja prema RAL standardu
Instalation for RAL standards

- aluminjska klupica pričvršćena vijcima
- termoizolacija
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- profil-maska F-1552
- profil za ugradnju FT-0289HF
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- vijak za ugradnju (npr.430.073) (npr. Fischer FFS 7.5 x 72)
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled

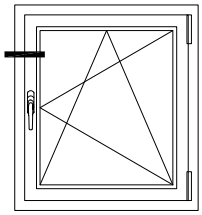
- aluminium window sill attached screw
- thermal insulation
- wheather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- profile-mask F-1552
- instalation profile FT-0289HF
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- Installation screw (eg. 430.073) (eg. Fischer FFS 7.5 x 72)
- vapour (Air tight) barier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- inside finish



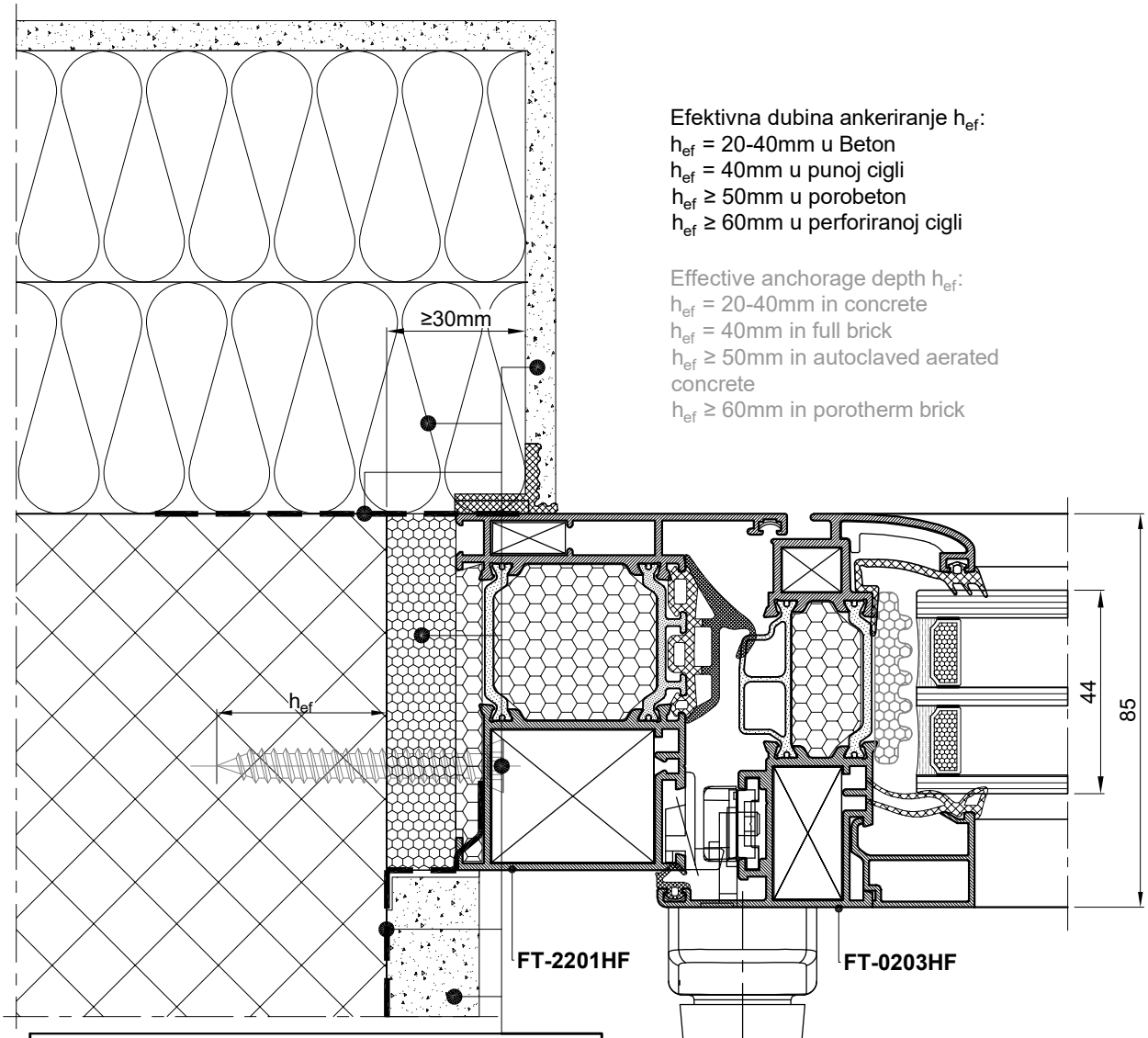
Koeficijent prolaza topline presjeka
Uf = 1.2 W/m²K
Heat transfer coefficient of cross section
Uf = 1.2 W / m²K

Efektivna dubina ankerisanja h_{ef}:
h_{ef} = 20-40mm u Beton
h_{ef} = 40mm u punoj cigli
h_{ef} ≥ 50mm u porobeton
h_{ef} ≥ 60mm u perforiranoj cigli

Effective anchorage depth h_{ef}:
h_{ef} = 20-40mm in concrete
h_{ef} = 40mm in full brick
h_{ef} ≥ 50mm in autoclaved aerated concrete
h_{ef} ≥ 60mm in porotherm brick



Ugradnja prema RAL standardu
Instalation for RAL standards



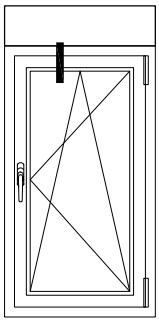
Efektivna dubina ankeriranje h_{ef}:
h_{ef} = 20-40mm u Beton
h_{ef} = 40mm u punoj cigli
h_{ef} ≥ 50mm u porobeton
h_{ef} ≥ 60mm u perforiranoj cigli

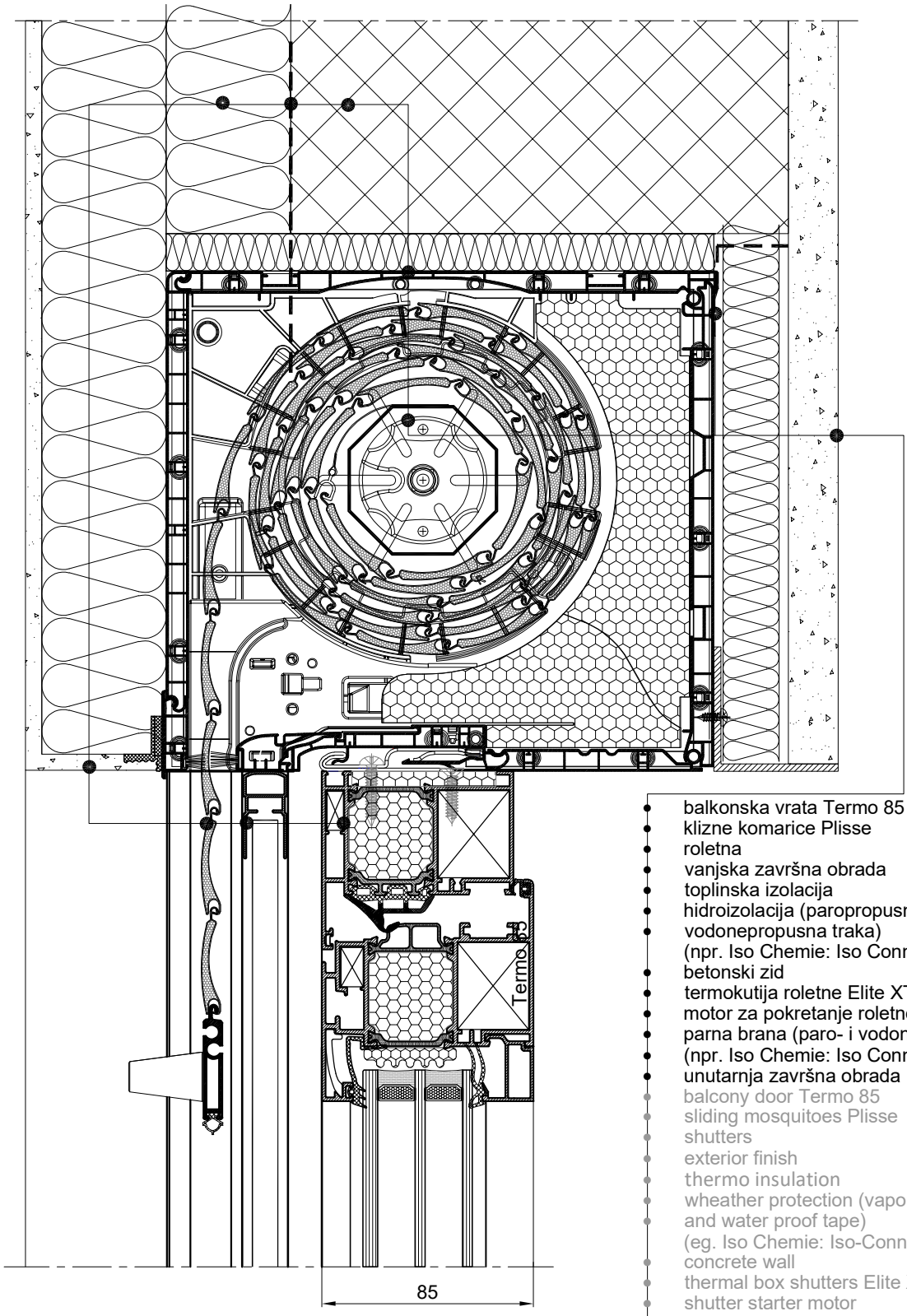
Effective anchorage depth h_{ef}:
h_{ef} = 20-40mm in concrete
h_{ef} = 40mm in full brick
h_{ef} ≥ 50mm in autoclaved aerated concrete
h_{ef} ≥ 60mm in porotherm brick

- vanjska obrada i završni izgled
- termoizolacija
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- vijak za ugradnju (npr.430.184) (npr. Fischer FFS 7.5 x 62)
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled

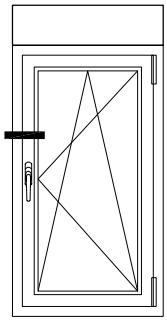
- outside finish
- thermal insulation
- wheather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso Connect Outside CX)
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- Installation screw (eg. 430.184) (eg. Fischer FFS 7.5 x 62)
- vapour (Air tight) barier (vapour and water proof tape) (eg. Iso Chemie: Iso Connect Inside CX)
- inside finish

Koeficijent prolaza topline presjeka
Uf = 1.2 W/m²K
Heat transfer coefficient of cross section
Uf = 1.2 W / m²K

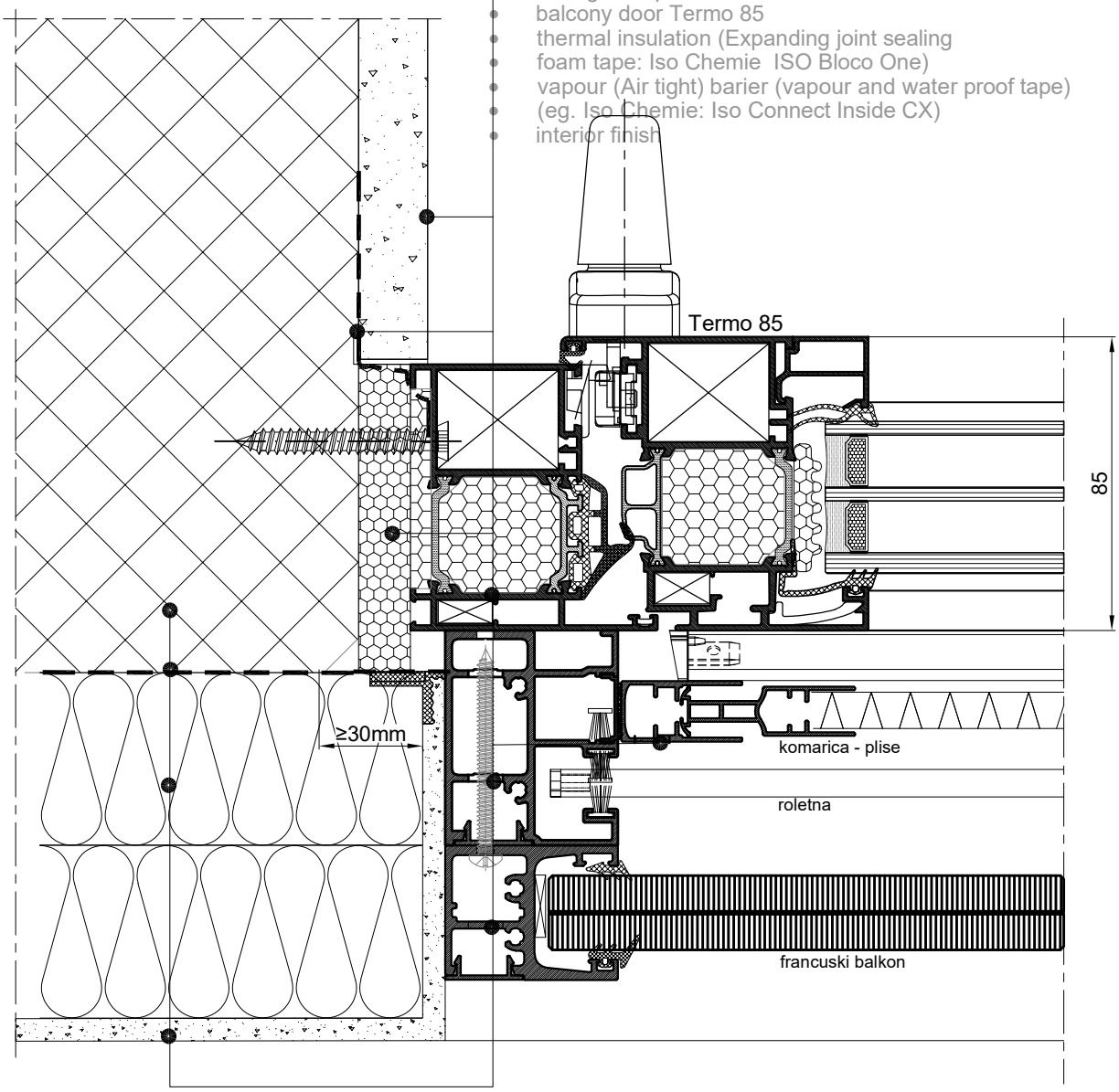




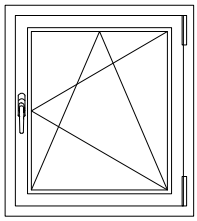
- balkonska vrata Termo 85
- klizne komarice Plisse
- roletna
- vanjska završna obrada
- toplinska izolacija
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- betonski zid
- termokutija roletne Elite XT-200x220
- motor za pokretanje roletne
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja završna obrada
- balcony door Termo 85
- sliding mosquitoes Plisse
- shutters
- exterior finish
- thermo insulation
- wheather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- concrete wall
- thermal box shutters Elite XT-200x220
- shutter starter motor
- vapour (Air tight) barier (vapour and water proof tape) (eg. Iso Chemie: Iso Connect Inside CX)
- interior finish

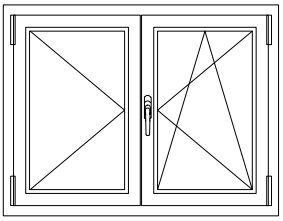


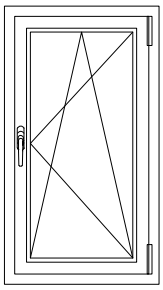
- betonski zid
- hidroizolacija (paropropusna i
- vodonepropusna traka)
  (npr. Iso Chemie: Iso Connect Outside CX)
- toplinska izolacija
- vanjska završna obrada
- francuski balkon
- roletna
- klizne komarice Plisse
- balkonska vrata Termo 85
- termoizolacija (exp.spužvica:
- Iso Chemie: ISO Bloco One)
- parna brana (paro- i vodonepropusna traka)
- (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja završna obrada
- concrete wall
- wheather protection (vapourpermable
- and water proof tape)
  (eg. Iso Chemie: Iso-Connect Outside CX)
- thermo insulation
- exterior finish
- french balcony
- roller shutter profile
- sliding mosquito Plisse
- balcony door Termo 85
- thermal insulation (Expanding joint sealing
- foam tape: Iso Chemie ISO Bloco One)
- vapour (Air tight) barier (vapour and water proof tape)
- (eg. Iso Chemie: Iso Connect Inside CX)
- interior finish

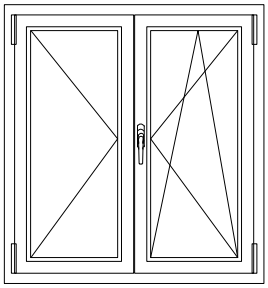


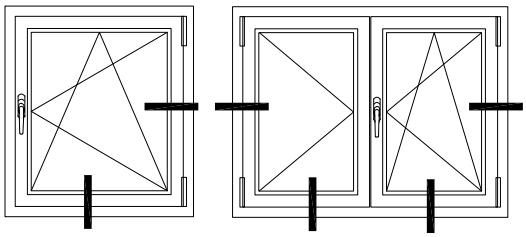
Profili sa žlijebom 16/13
Grooved profiles 16/13

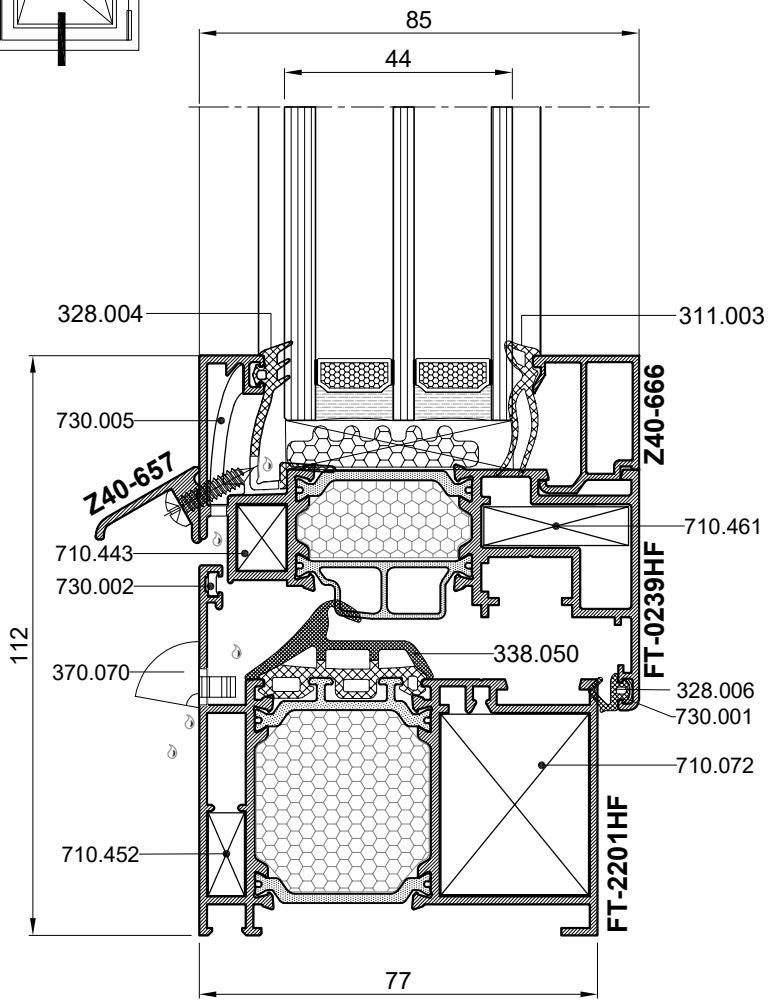


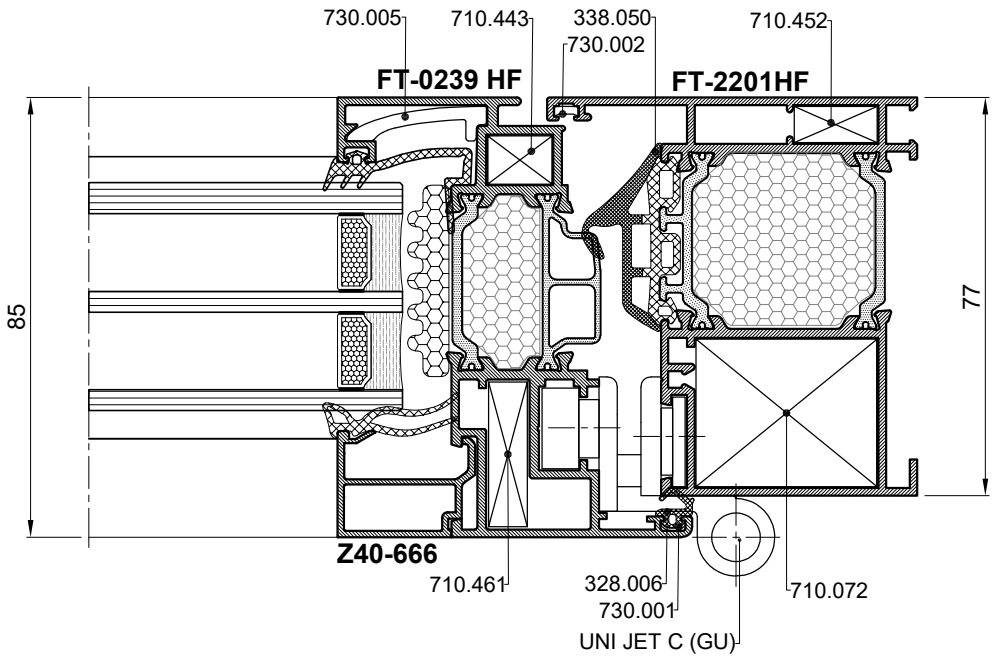


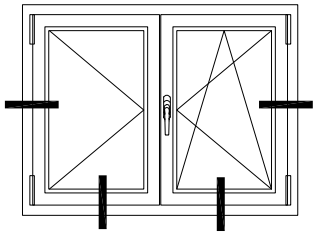


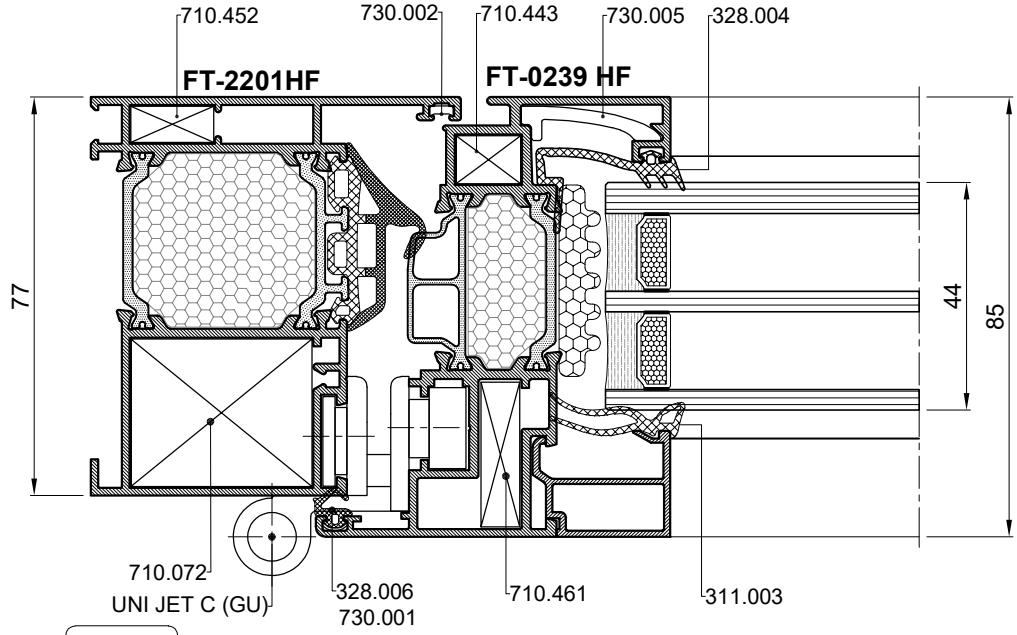


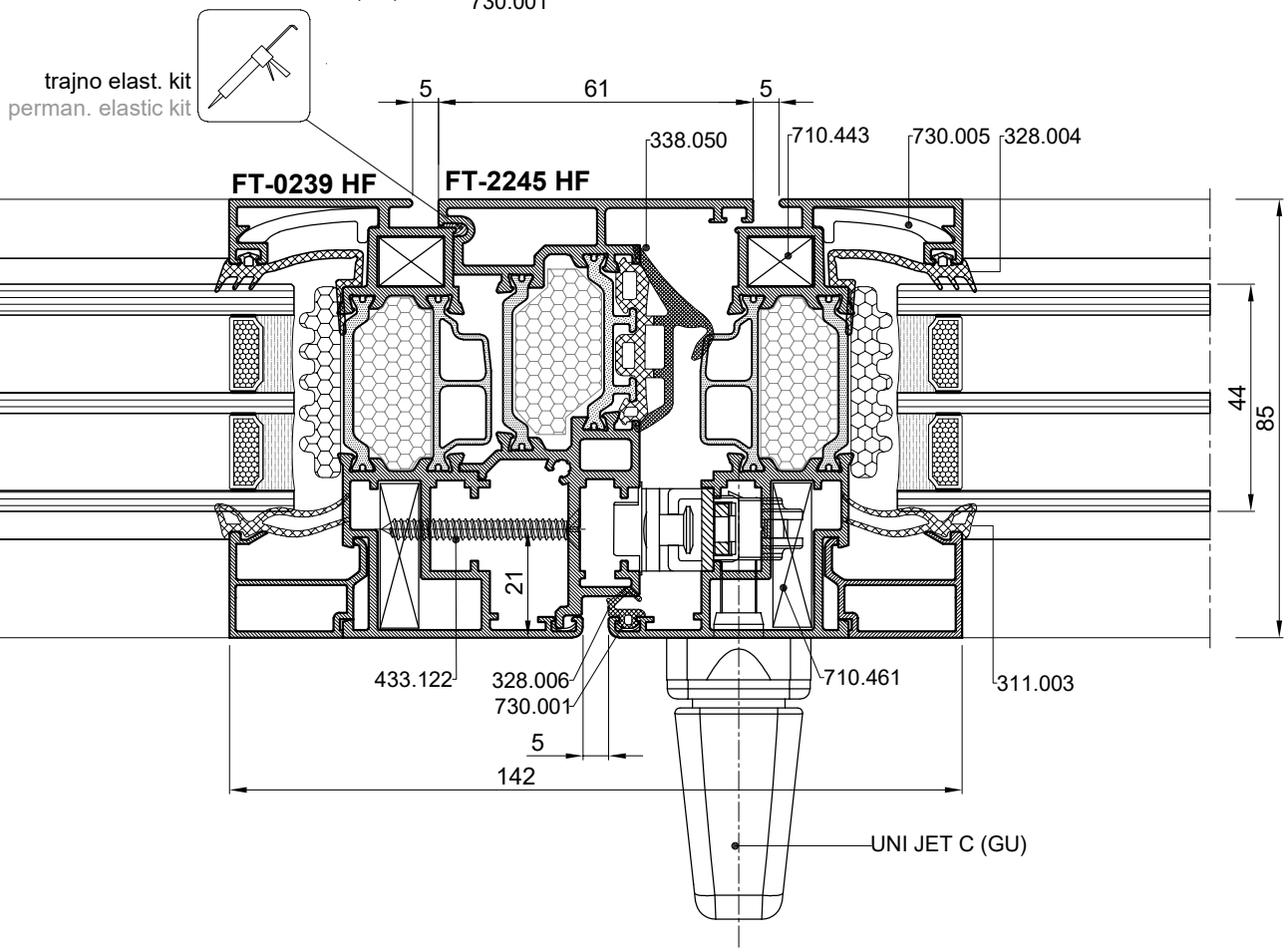


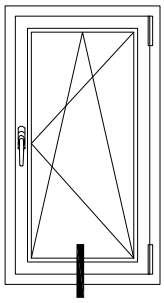

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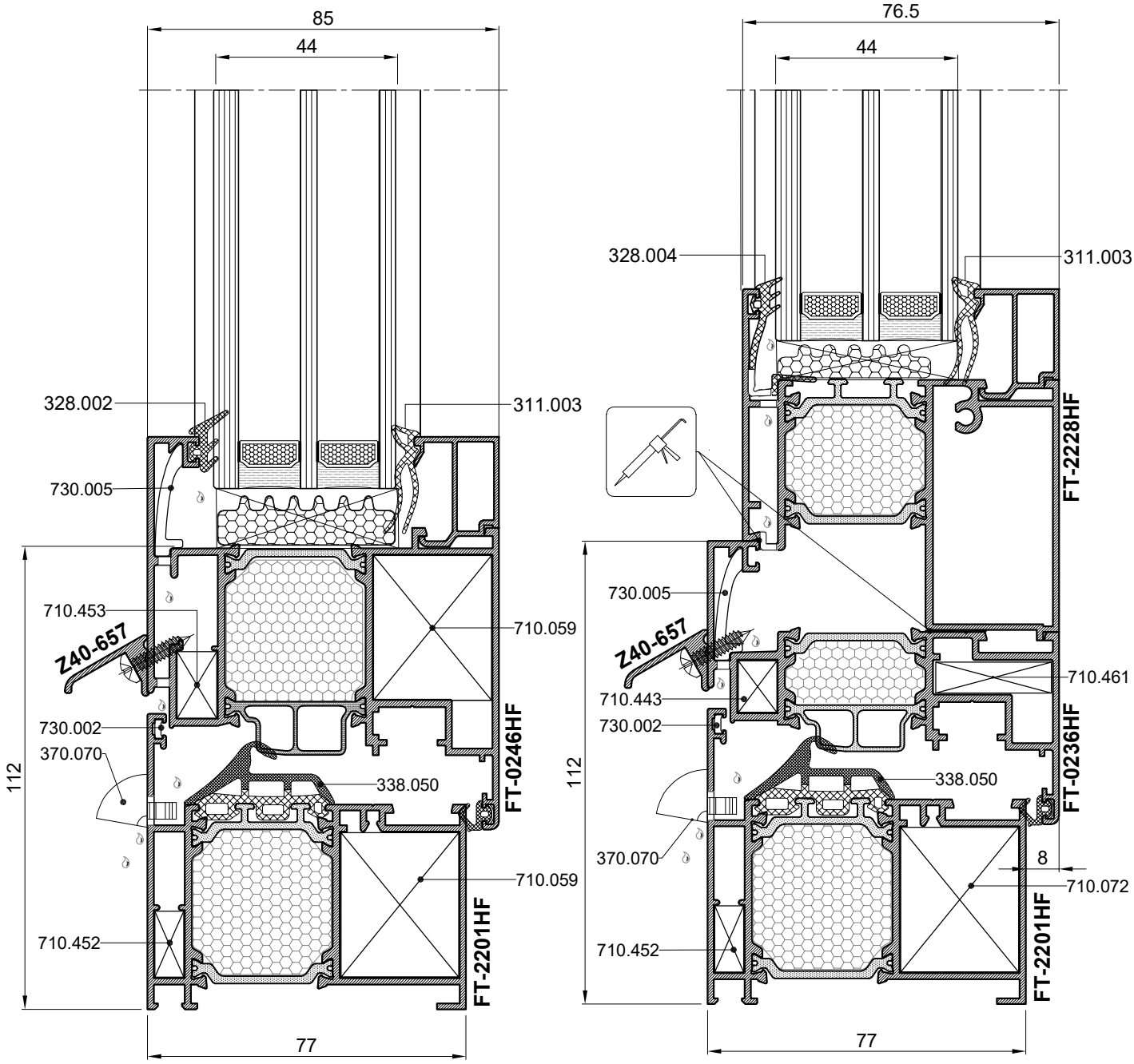

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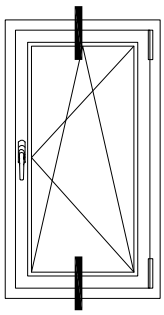

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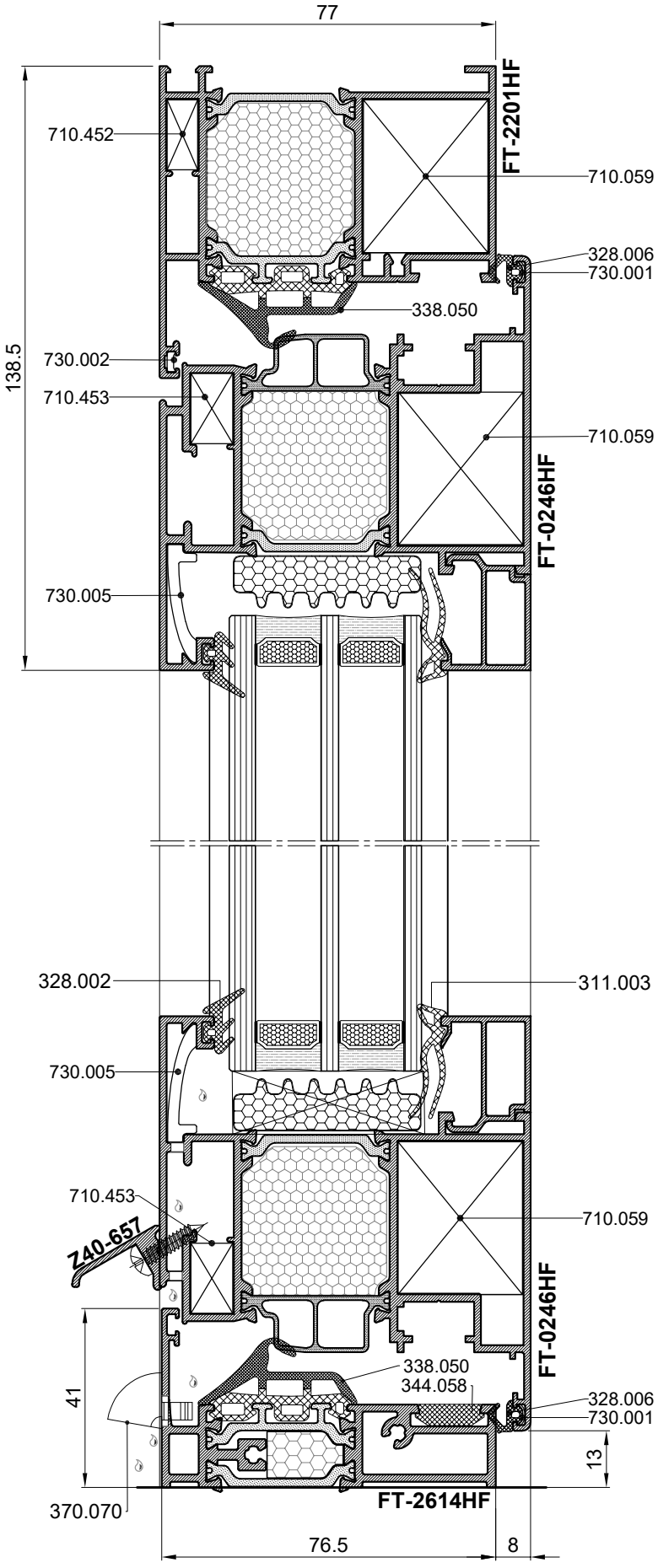

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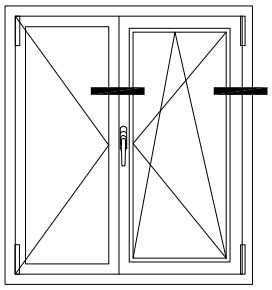


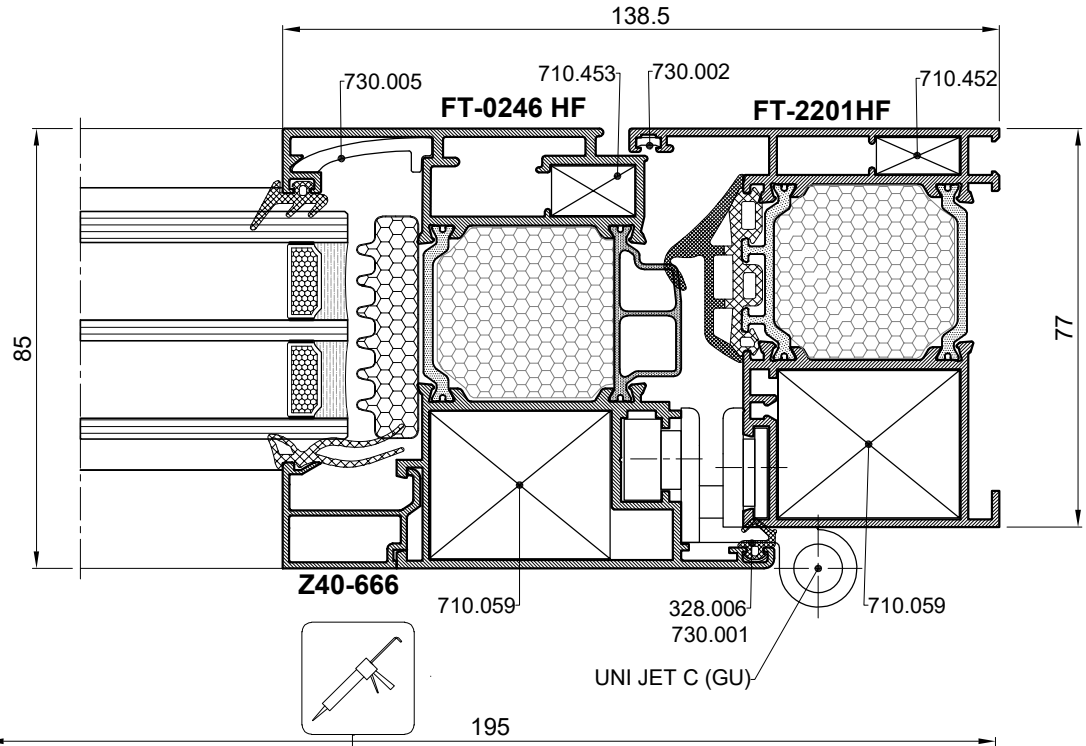


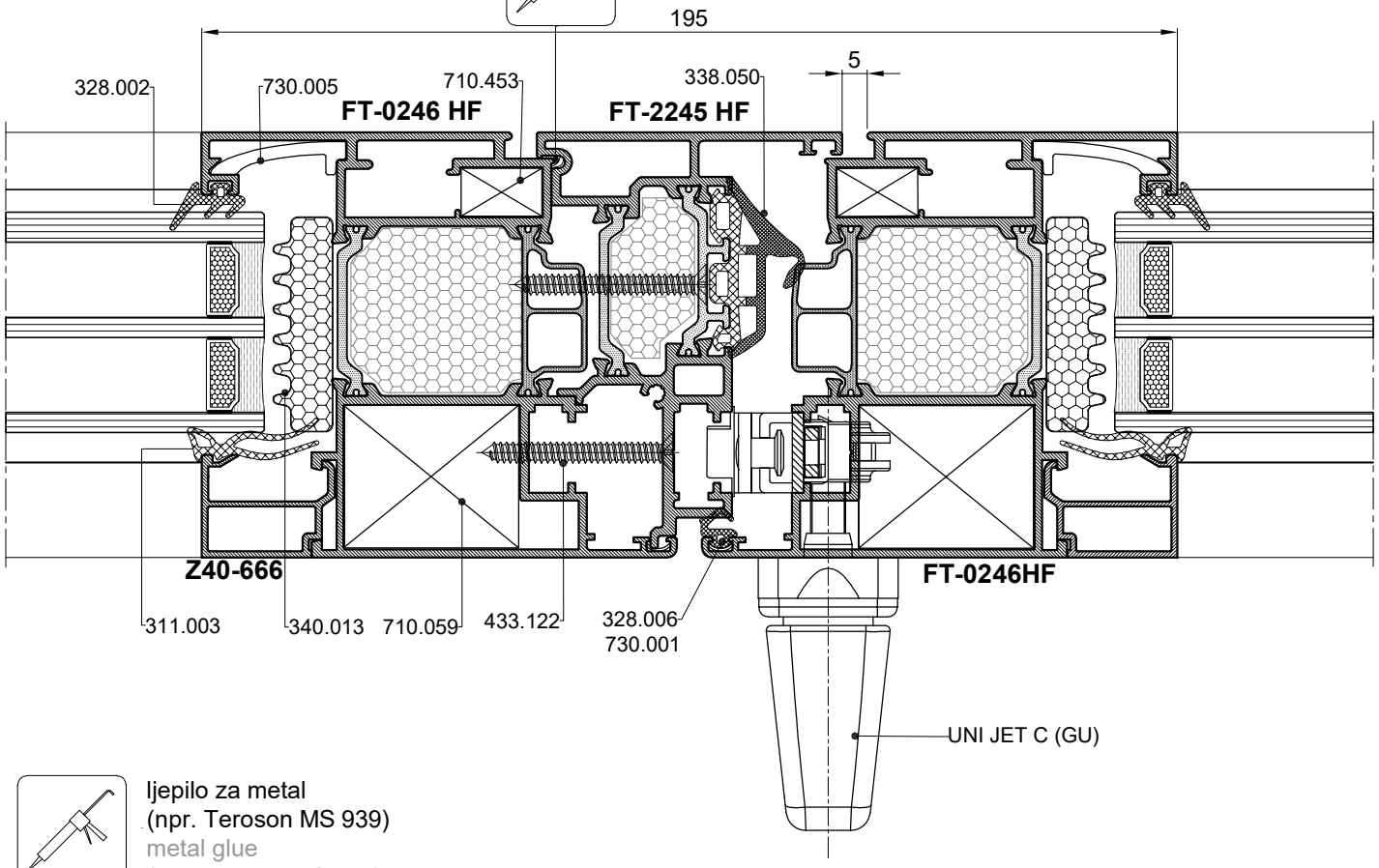
ljepilo za metal
(npr. Teroson MS 939)
metal glue
(eg. Teroson MS 939)




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Ljepilo za metal
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metal glue
(eg. Teroson MS 939)

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Travanj 2026. / *April* 2026

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