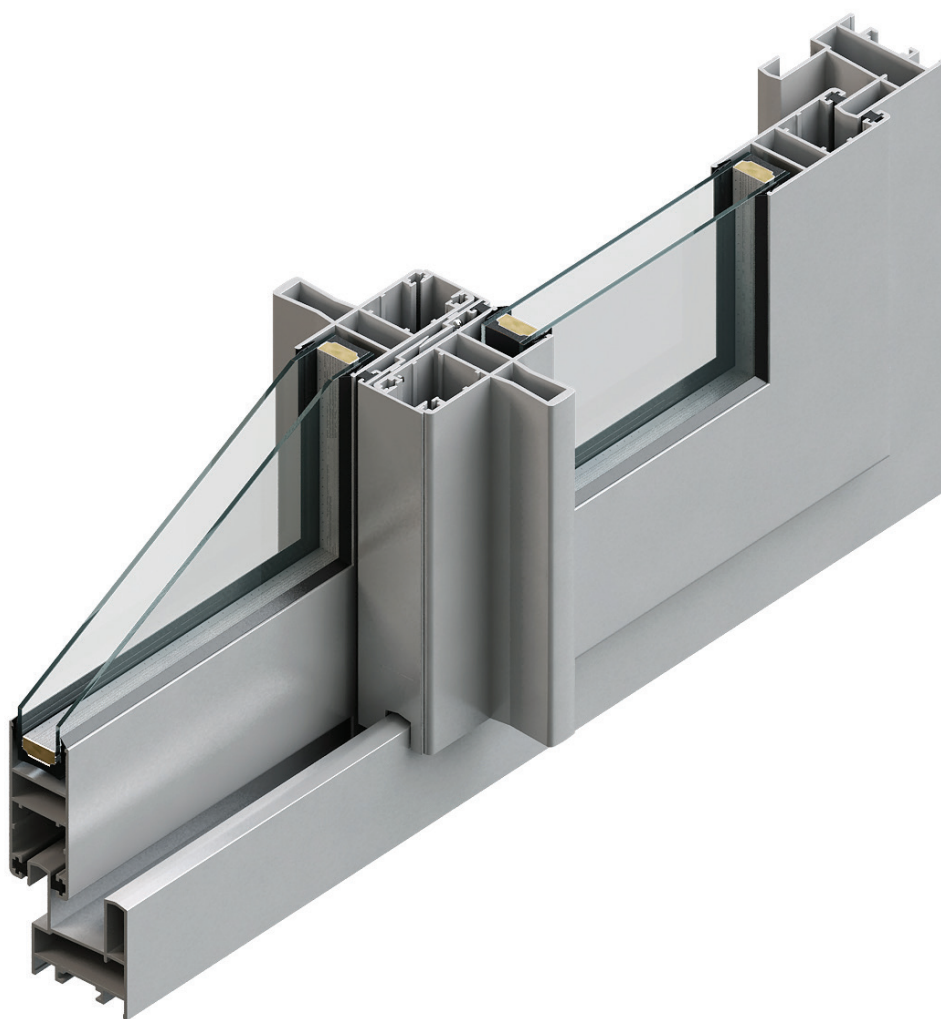


FEAL



HARMO

KLIZNI PROZORI I VRATA
SLIDING WINDOWS AND DOORS

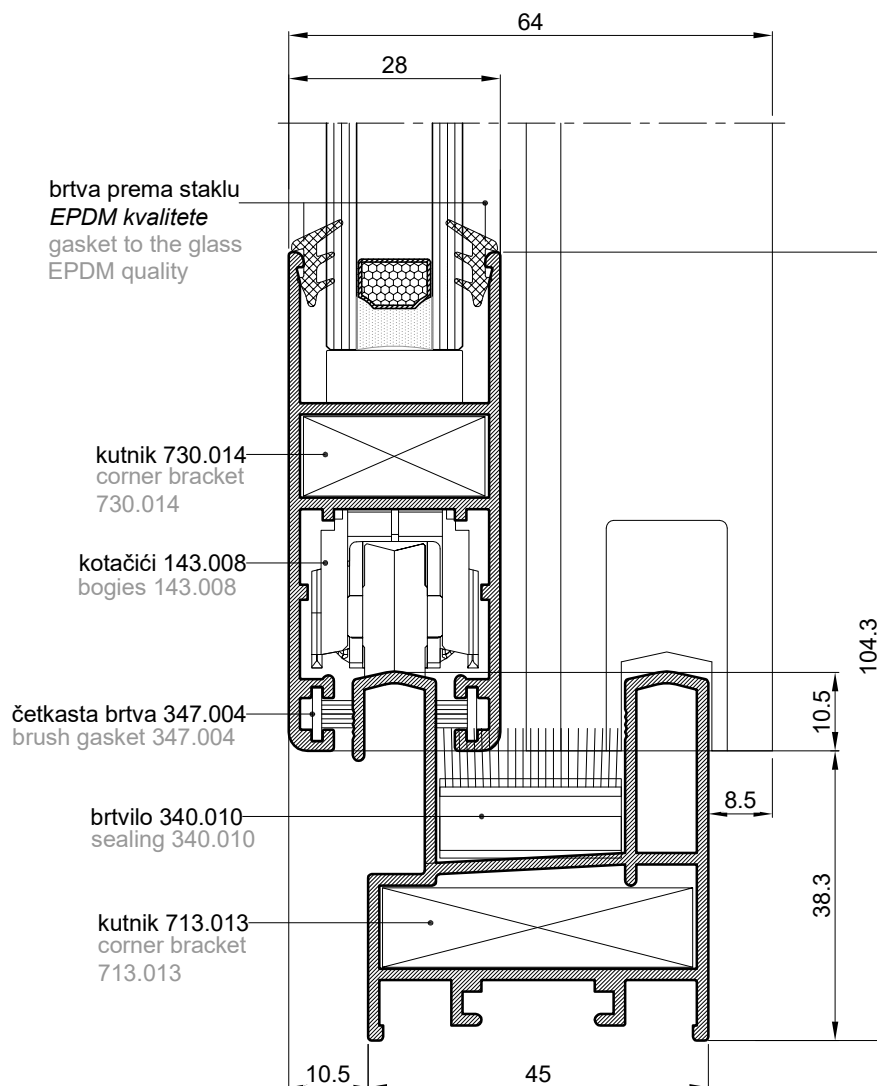
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Značajke sistema

System characteristics

Seriya profila za klizne prozore i vrata **HARMO**
Series of profiles for sliding windows and doors **HARMO**



Seriya je namjenjena za izradu kliznih prozora i vrata na objektima gdje se ne traži visok stupanj toplinske izolacije.

Odlikuje se jednostavnošću, raznovrsnim tipologijama izrade te je estetski prihvatljiva sa modernim linijama profila.

Struktura krila omogućava ugradnju okova sa ključanjem u više točaka.

Nadopunjuje se na okvire serija 45 Mill čime je omogućena izvedba većih i tipološki raznovrsnih stijena.

Series is intended to be used in production sliding windows and doors on facilities which do not require high level of thermal insulation.

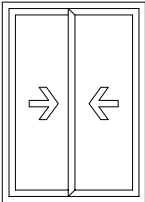
It is characterized with simplicity, variety of production typology and it is aesthetically acceptable with modern profile contours.

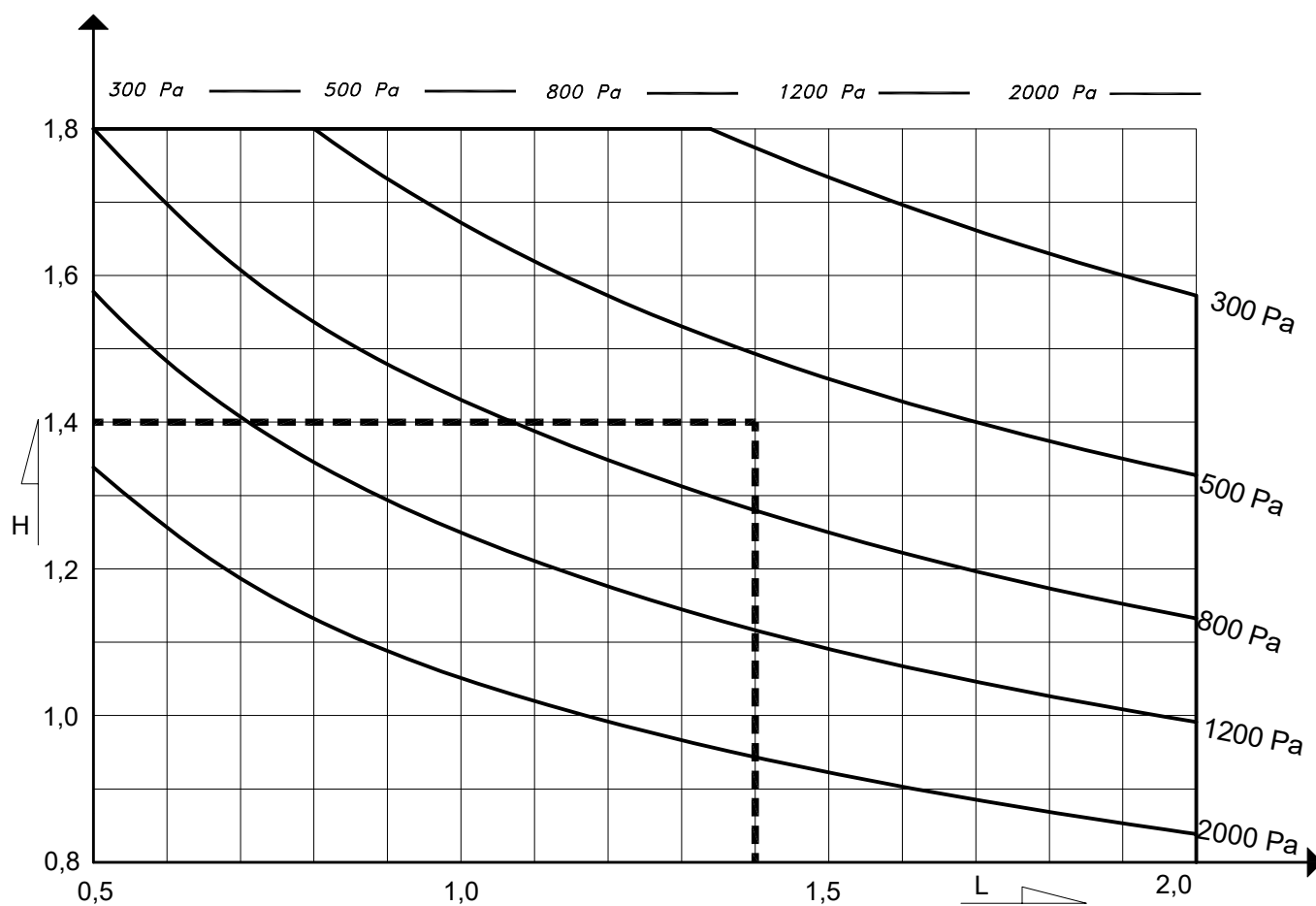
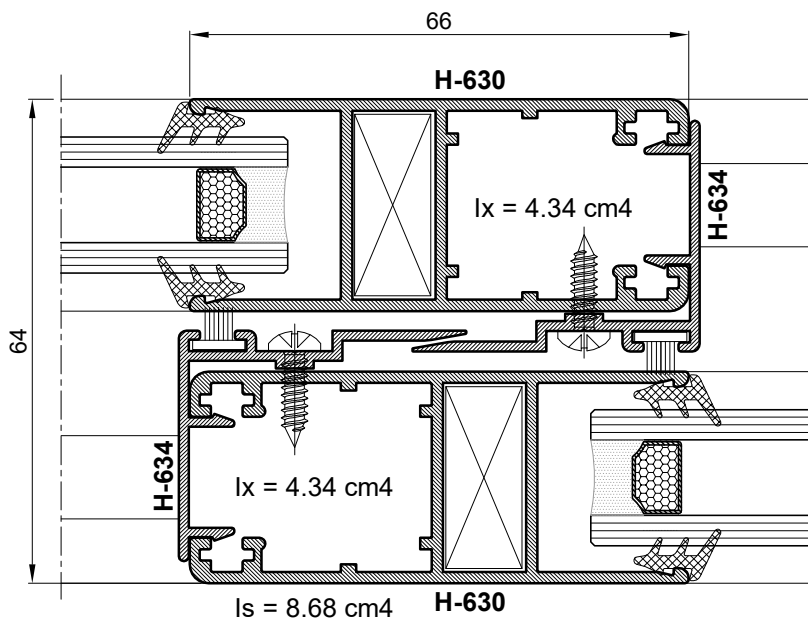
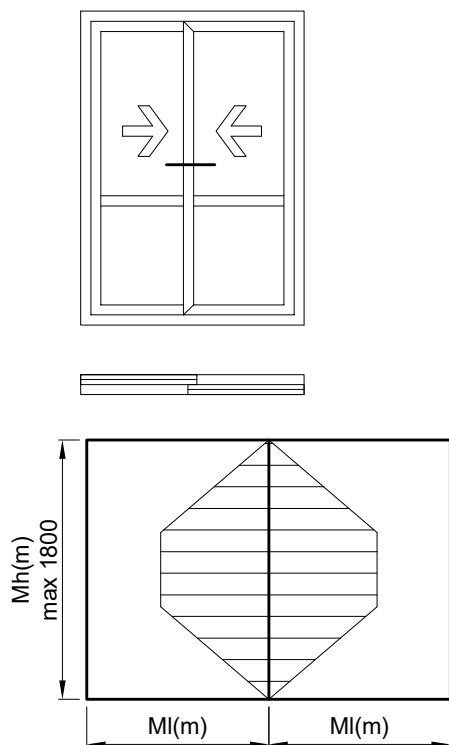
Sash structure enables hardware installation with locking in multiple points.

It is complemented with frames of 45 Mill series which enables construction of larger and typologically different walls.

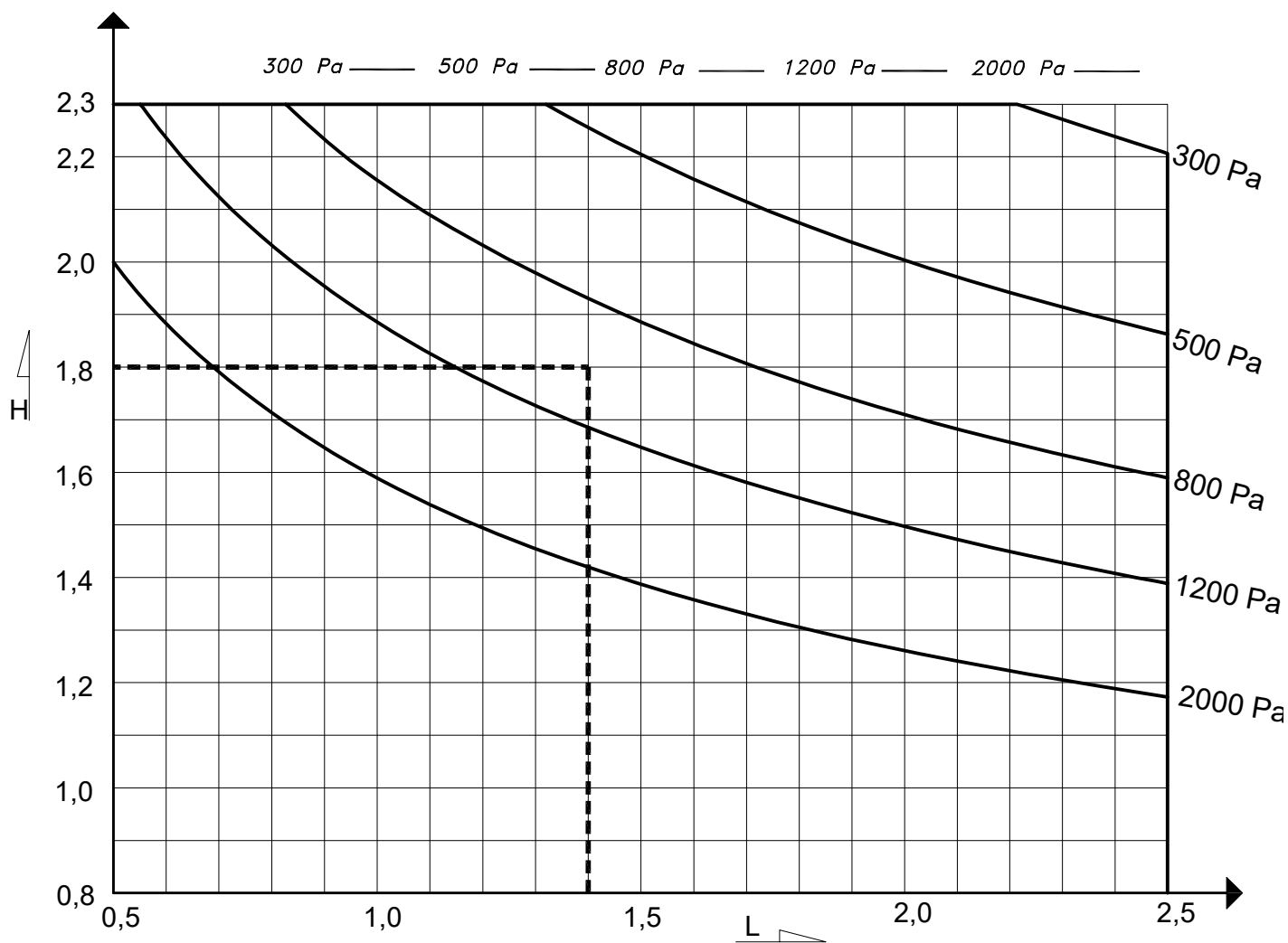
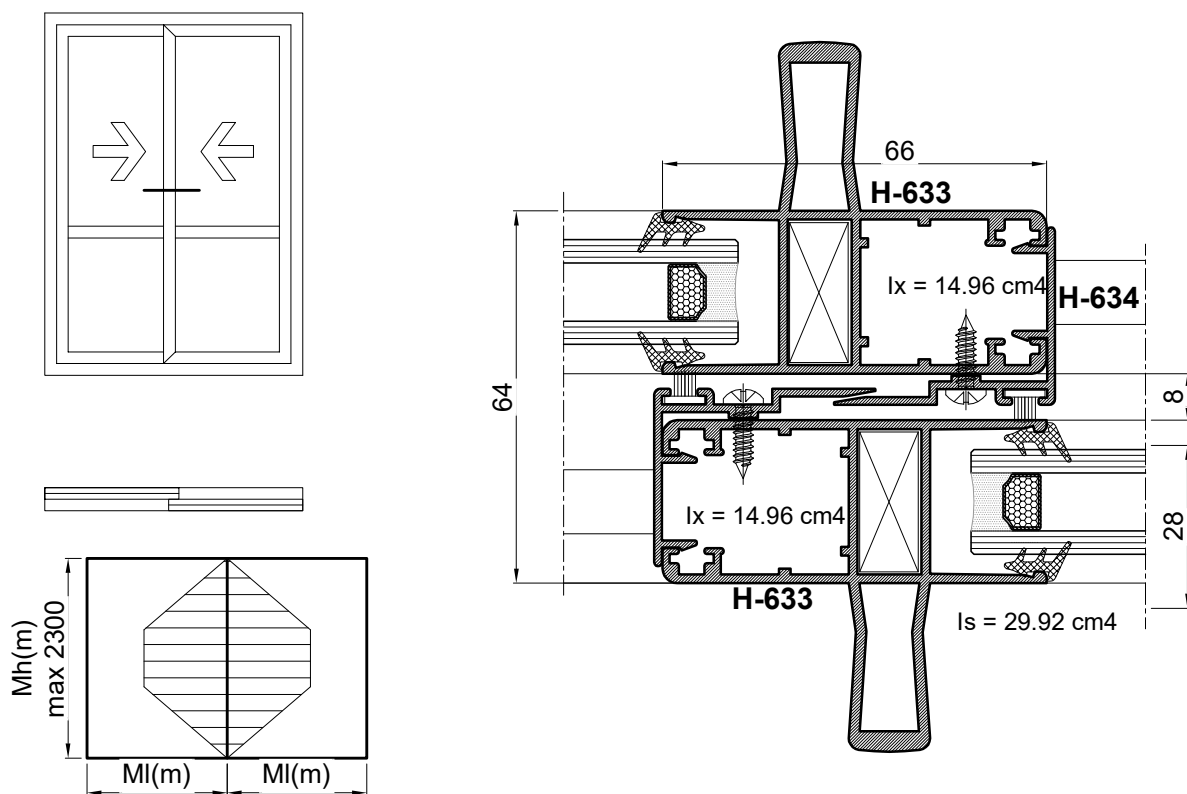
Ispitivanja i certifikati

Testings and certificates

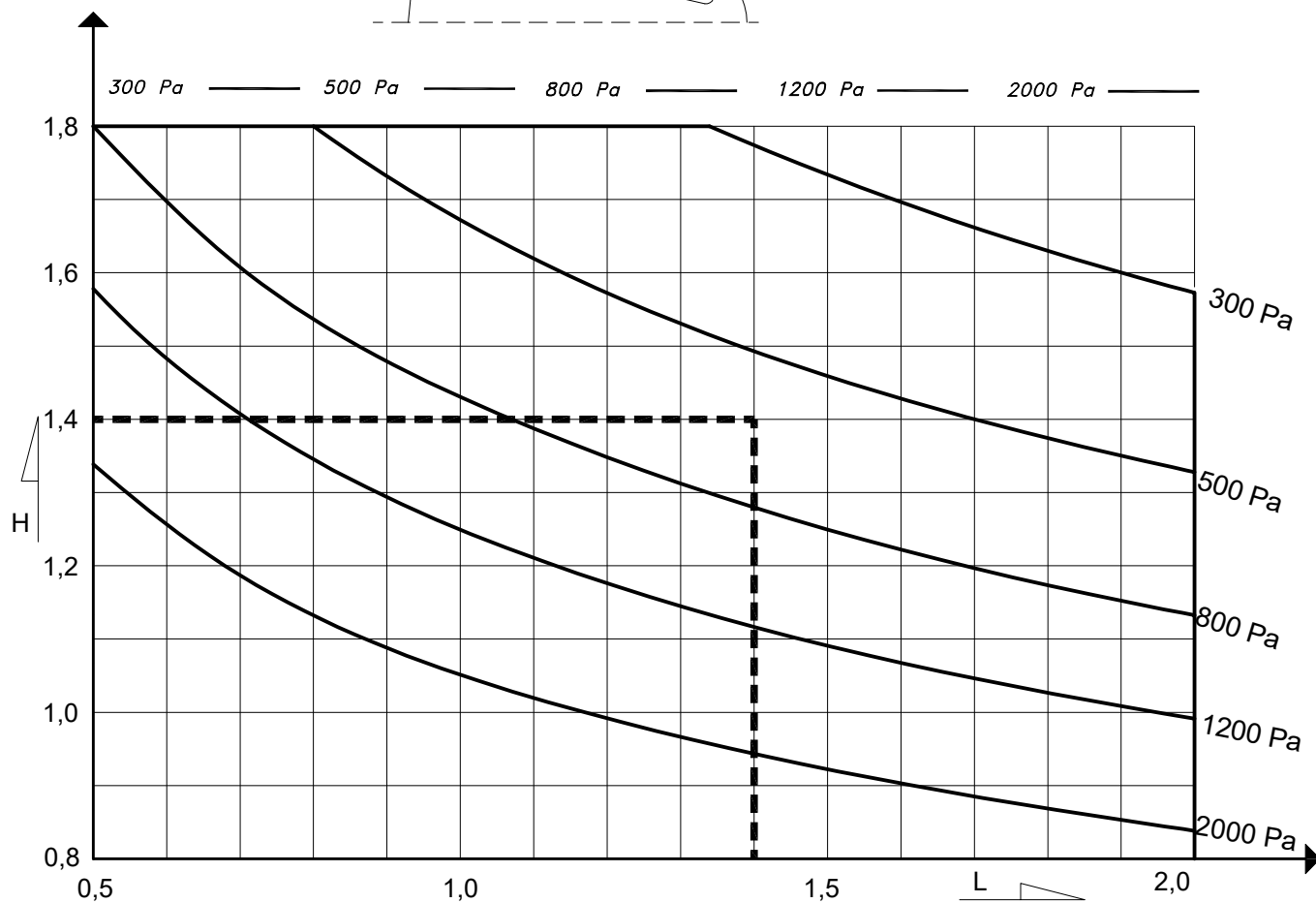
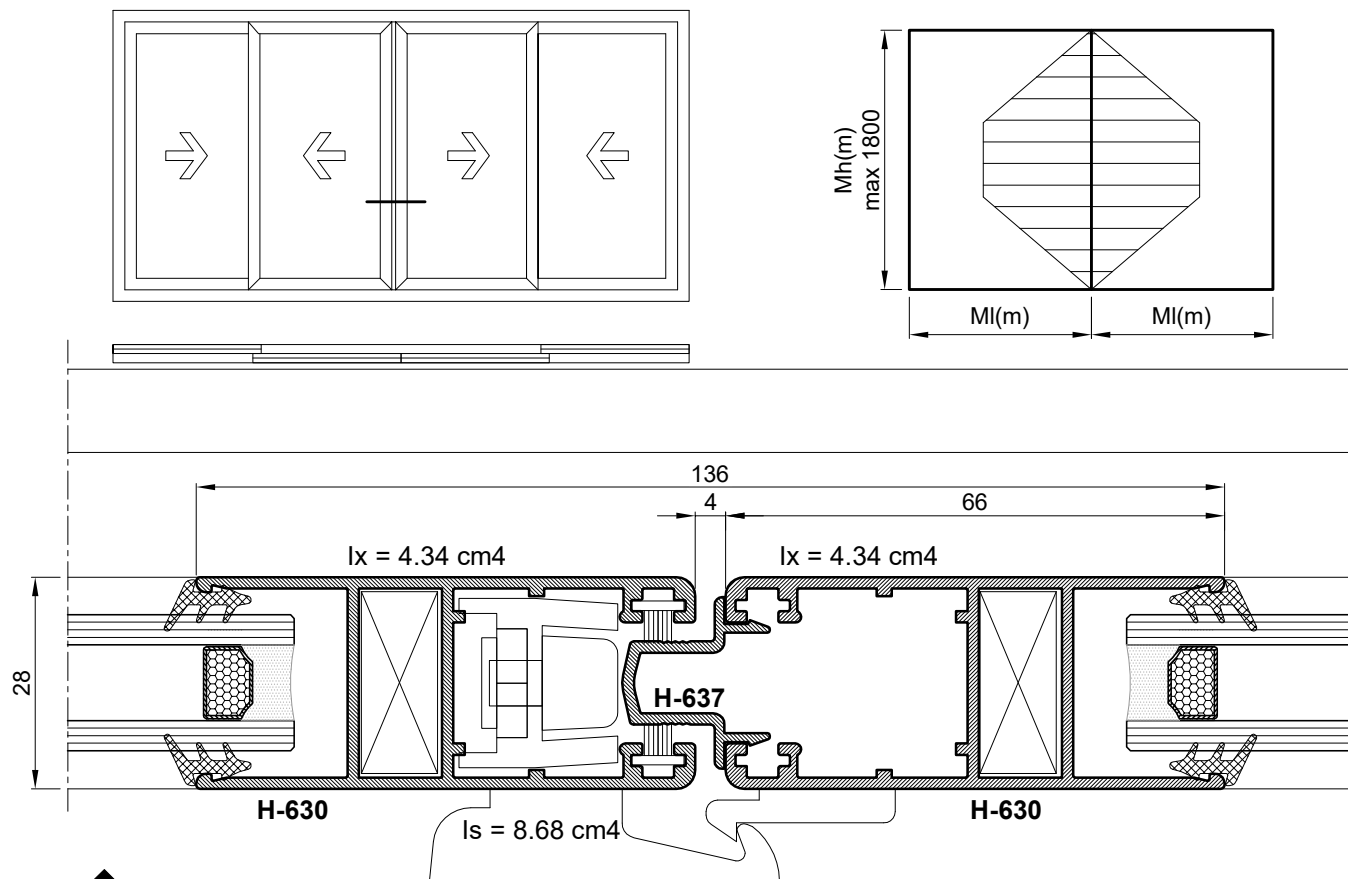
ISPITIVANJA I CERTIFIKATI		
Vrsta ispitivanja		
Vodonepropusnost EN 12208	6A	
Otpornost na opterećenje vjetrom EN 12210	B3	



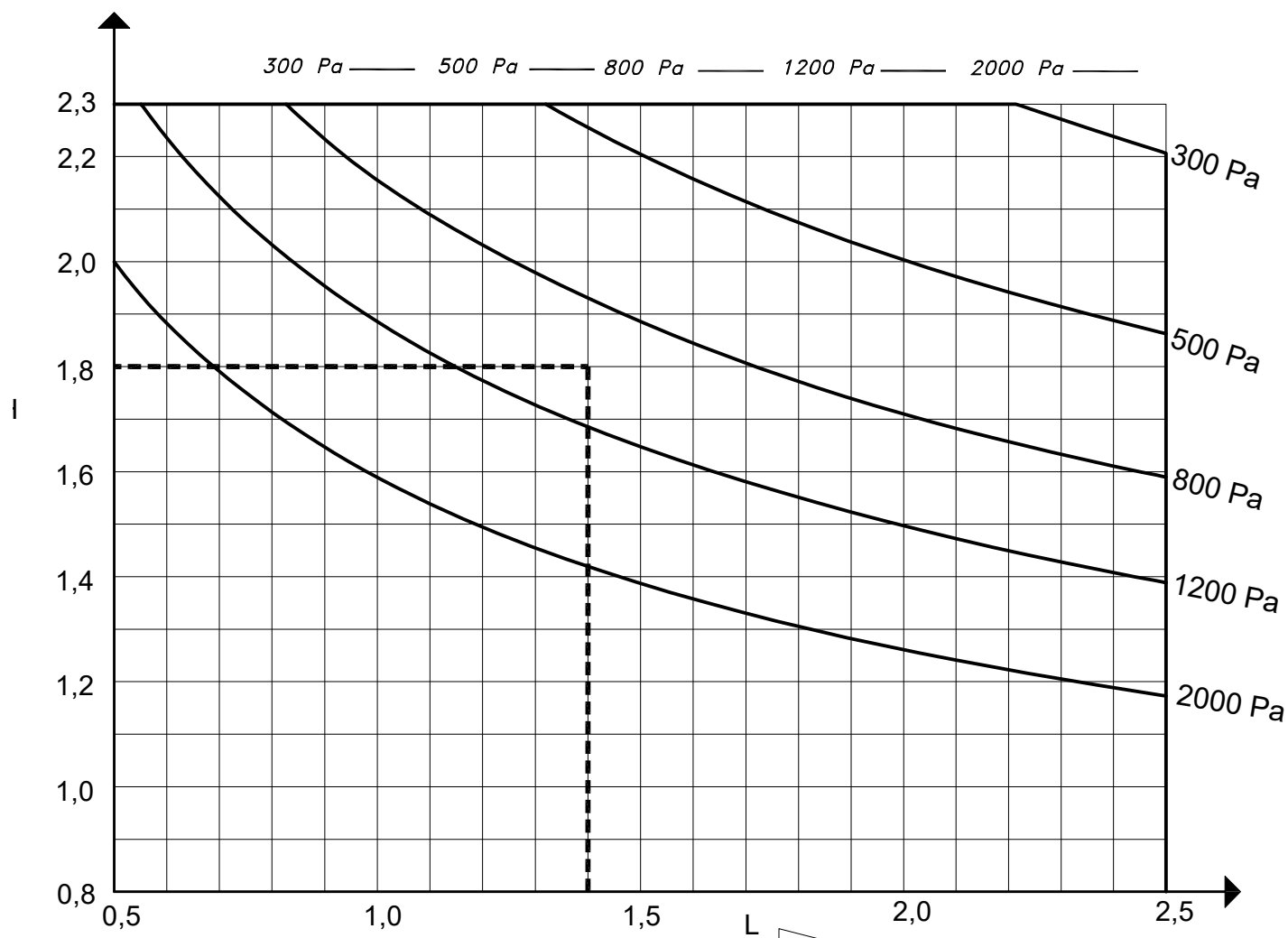
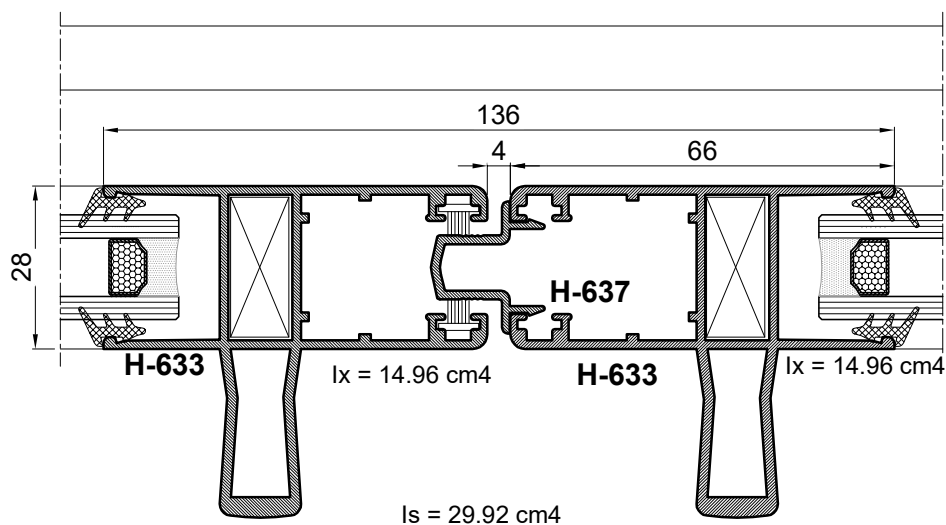
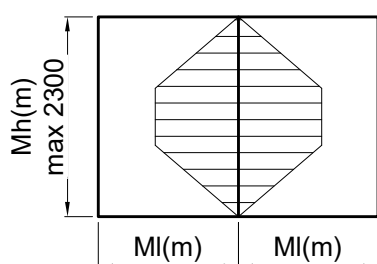
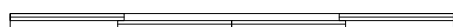
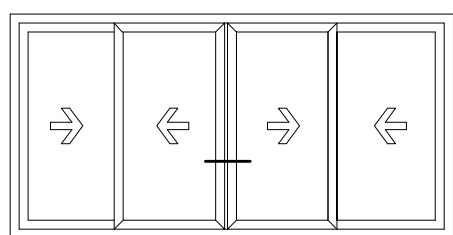
primjer: $H \times L = 1400 \times 1400 \Rightarrow 500 \text{ Pa}$
example: $H \times L = 1400 \times 1400 \Rightarrow 500 \text{ Pa}$



primjer: HxL= 1800x1400 => 800 Pa
example: HxL= 1800x1400 => 800 Pa

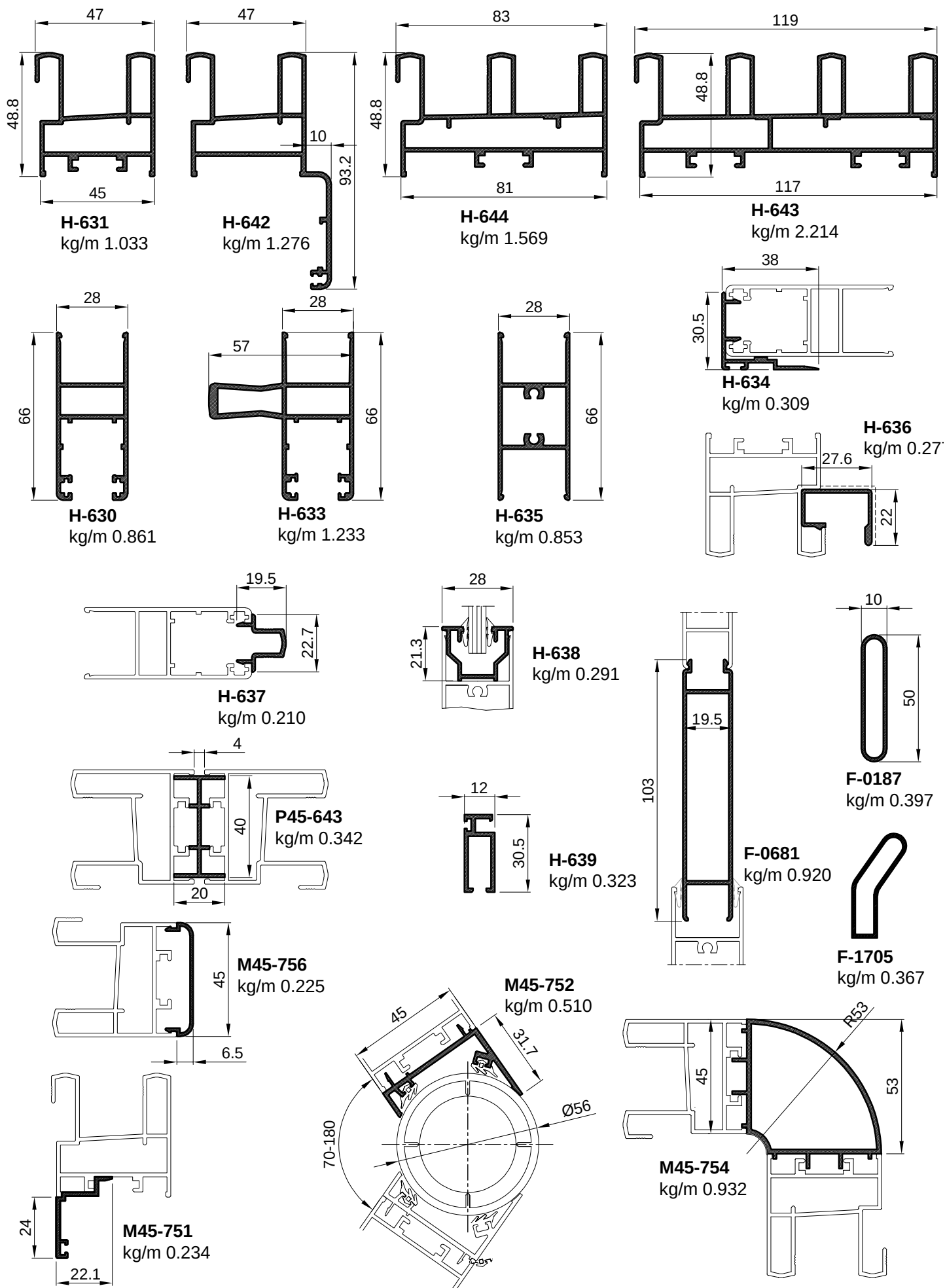


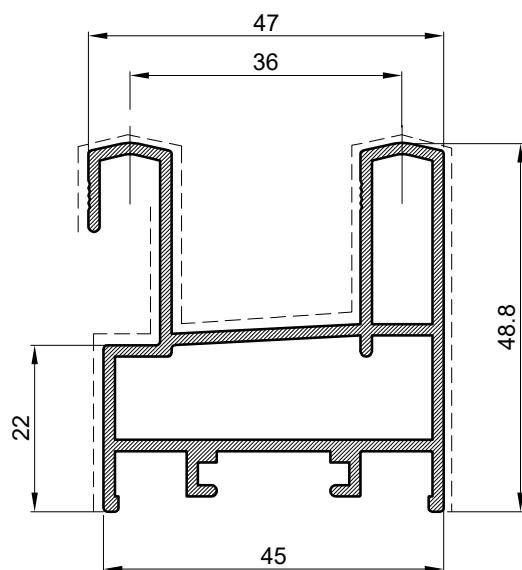
primjer: $H \times L = 1400 \times 1400 \Rightarrow 500 \text{ Pa}$
example: $H \times L = 1400 \times 1400 \Rightarrow 500 \text{ Pa}$



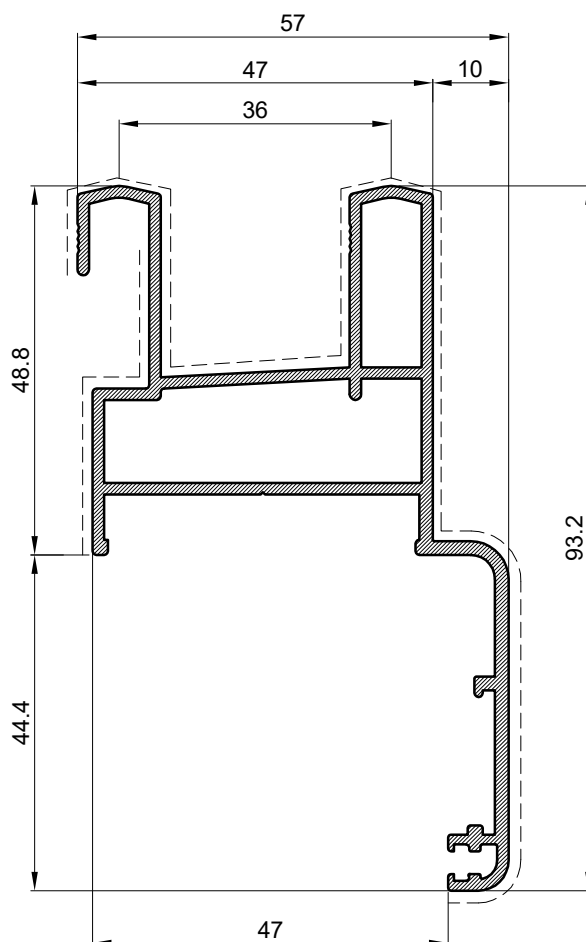
primjer: HxL= 1800x1400 => 800 Pa
example: HxL= 1800x1400 => 800 Pa

Profili Profiles

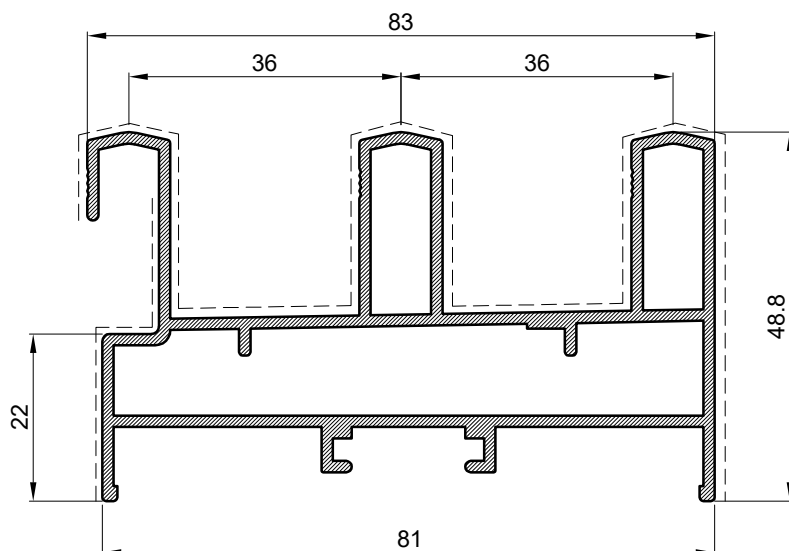




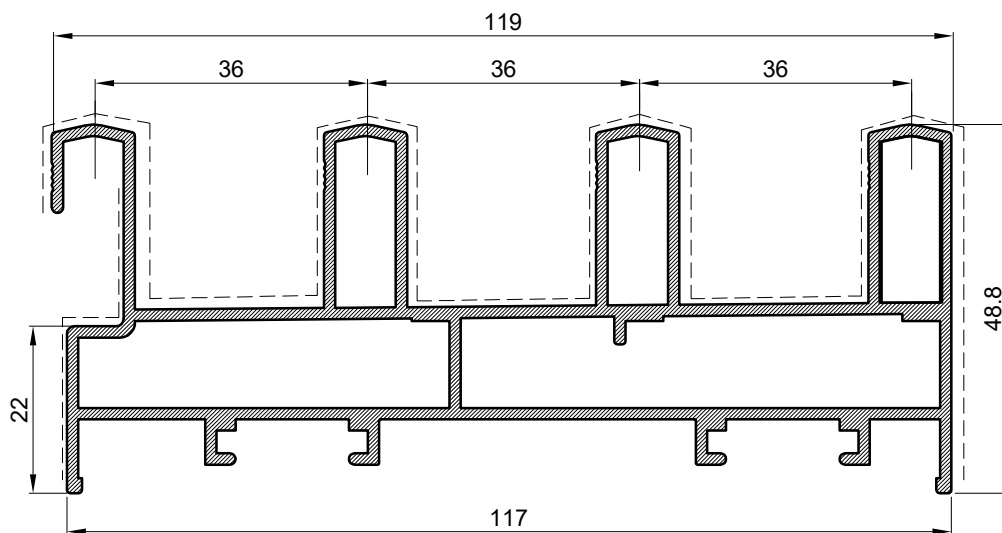
Dvostazni profil rama Two-rail frame profile		
Art.Br. Art.Nr.	H-631	
Težina Weight	kg/m'	1.033
Opseg Perimeter	mm	320
Moment inercije Moments of inertia	I _x (cm ⁴)	8.08
	I _y (cm ⁴)	10.24
	W _x (cm ³)	3.13
	W _y (cm ³)	4.02
L	mm	6500



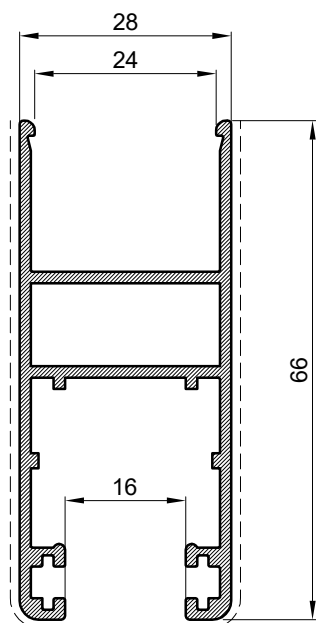
Dvostazni profil rama Two-rail frame profile		
Art.Br. Art.Nr.	H-642	
Težina Weight	kg/m'	1.276
Opseg Perimeter	mm	429
Moment inercije Moments of inertia	I _x (cm ⁴)	29.10
	I _y (cm ⁴)	17.56
	W _x (cm ³)	5.10
	W _y (cm ³)	5.32
L	mm	6500



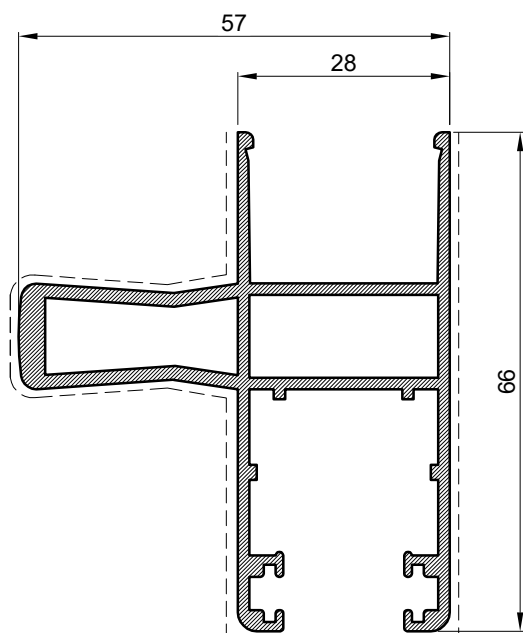
Trostazni profil rama Three-rail frame profile		
Art.Br. Art.Nr.	H-644	
Težina Weight	kg/m'	1.569
Opseg Perimeter	mm	440
Moment inercije Moments of inertia	I _x (cm ⁴)	10.55
	I _y (cm ⁴)	42.68
	W _x (cm ³)	4.34
	W _y (cm ³)	9.77
L	mm	6500



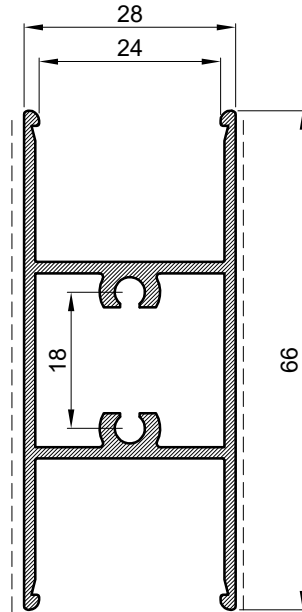
Četverostazni profil rama Four-rail frame profile		
Art.Br. Art.Nr.	H-643	
Težina Weight	kg/m'	2.214
Opseg Perimeter	mm	590
Moment inercije Moments of inertia	I _x (cm ⁴)	14.63
	I _y (cm ⁴)	117.31
	W _x (cm ³)	5.88
	W _y (cm ³)	18.89
L	mm	6500



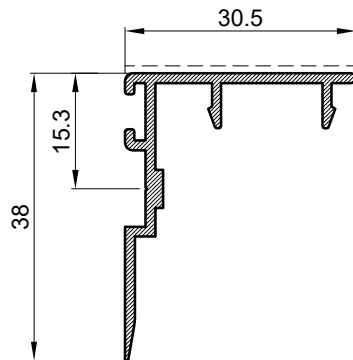
Profil krila Sash profile		
Art.Br. Art.Nr.	H-630	
Težina Weight	kg/m'	0.861
Opseg Perimeter	mm	347
Moment inerције Moments of inertia	I _x (cm ⁴)	10.65
	I _y (cm ⁴)	4.34
	W _x (cm ³)	3.05
	W _y (cm ³)	3.10
L	mm	6500



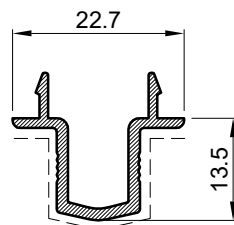
Ojačani profil krila Reinforcement sash profile		
Art.Br. Art.Nr.	H-633	
Težina Weight	kg/m'	1.233
Opseg Perimeter	mm	404
Moment inerције Moments of inertia	I _x (cm ⁴)	11.60
	I _y (cm ⁴)	14.96
	W _x (cm ³)	3.47
	W _y (cm ³)	4.46
L	mm	6500



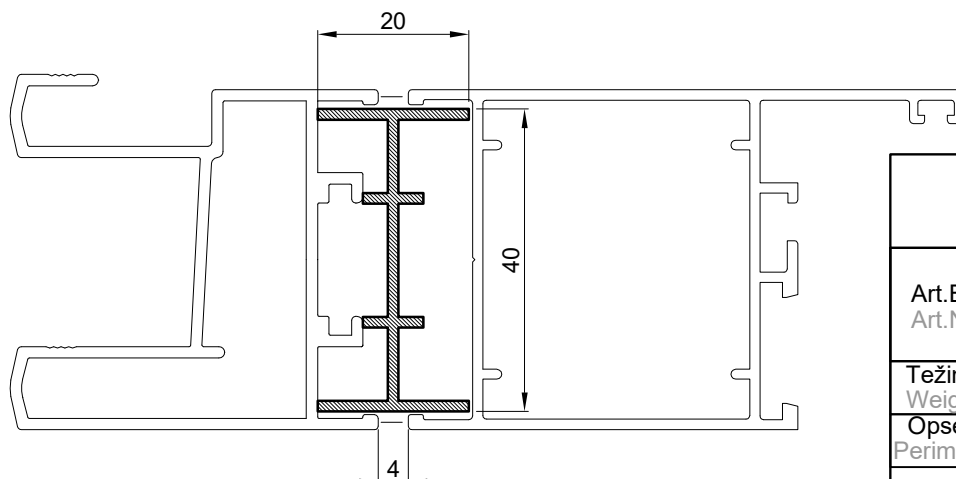
Prečka Mullion		
Art.Br. Art.Nr.	H-635	
Težina Weight	kg/m'	0.853
Opseg Perimeter	mm	270
Moment inercije Moments of inertia	I _x (cm ⁴)	8.74
	I _y (cm ⁴)	3.90
	W _x (cm ³)	2.65
	W _y (cm ³)	2.79
L	mm	6500



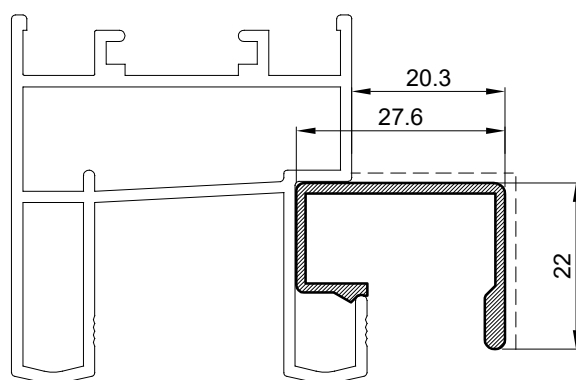
Profil Profile		
Art.Br. Art.Nr.	H-634	
Težina Weight	kg/m'	0.309
Opseg Perimeter	mm	177
Moment inercije Moments of inertia	I _x (cm ⁴)	1.29
	I _y (cm ⁴)	0.98
	W _x (cm ³)	0.46
	W _y (cm ³)	0.45
L	mm	6500



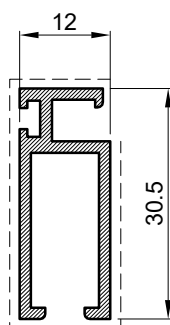
Profil Profile		
Art.Br. Art.Nr.	H-637	
Težina Weight	kg/m'	0.210
Opseg Perimeter	mm	114
Moment inercije Moments of inertia	I _x (cm ⁴)	0.24
	I _y (cm ⁴)	0.27
	W _x (cm ³)	0.23
	W _y (cm ³)	0.24
L	mm	6500



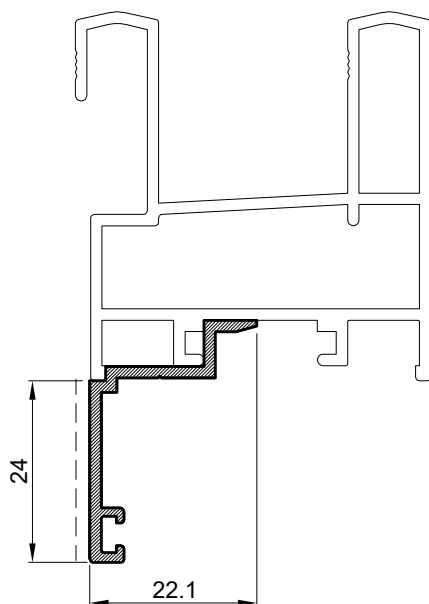
Profil Profile		
Art.Br. Art.Nr.	P45-643	
Težina Weight	kg/m'	0.342
Opseg Perimeter	mm	184
Moment inercije Moments of inertia	Ix (cm ⁴)	2.81
	Iy (cm ⁴)	0.20
	Wx (cm ³)	1.41
	Wy (cm ³)	0.20
L	mm	6500



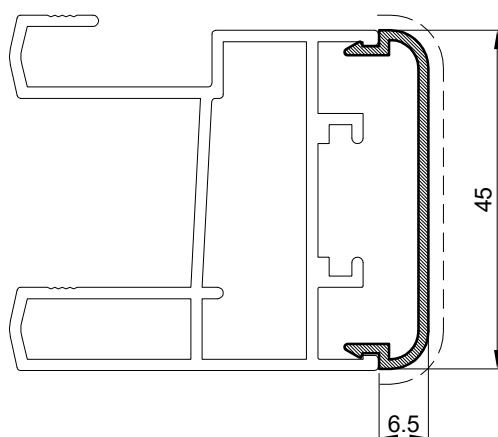
Okapnica-vodilica komarica Drip cap-guide mosquito net		
Art.Br. Art.Nr.	H-636	
Težina Weight	kg/m'	0.277
Opseg Perimeter	mm	142.00
L	mm	6500



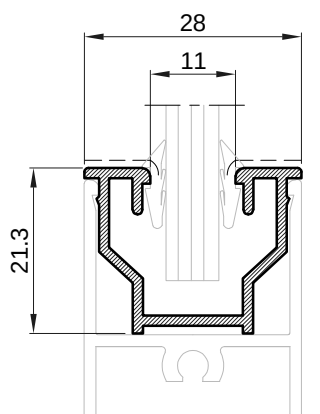
Krilo komarice Sash of mosquito net		
Art.Br. Art.Nr.	H-639	
Težina Weight	kg/m'	0.323
Opseg Perimeter	mm	161.00
L	mm	6500



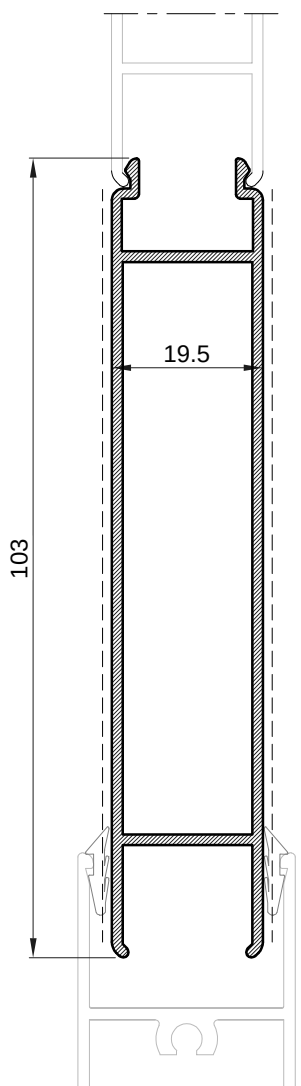
Profil Profile		
Art.Br. Art.Nr.	M45-751	
Težina Weight	kg/m'	0.234
Opseg Perimeter	mm	122.00
L	mm	6500



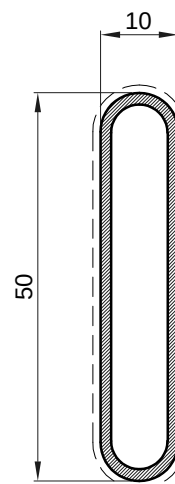
Pokrivni profil Shroud profile		
Art.Br. Art.Nr.	M45-756	
Težina Weight	kg/m'	0.225
Opseg Perimeter	mm	132.00
L	mm	6500



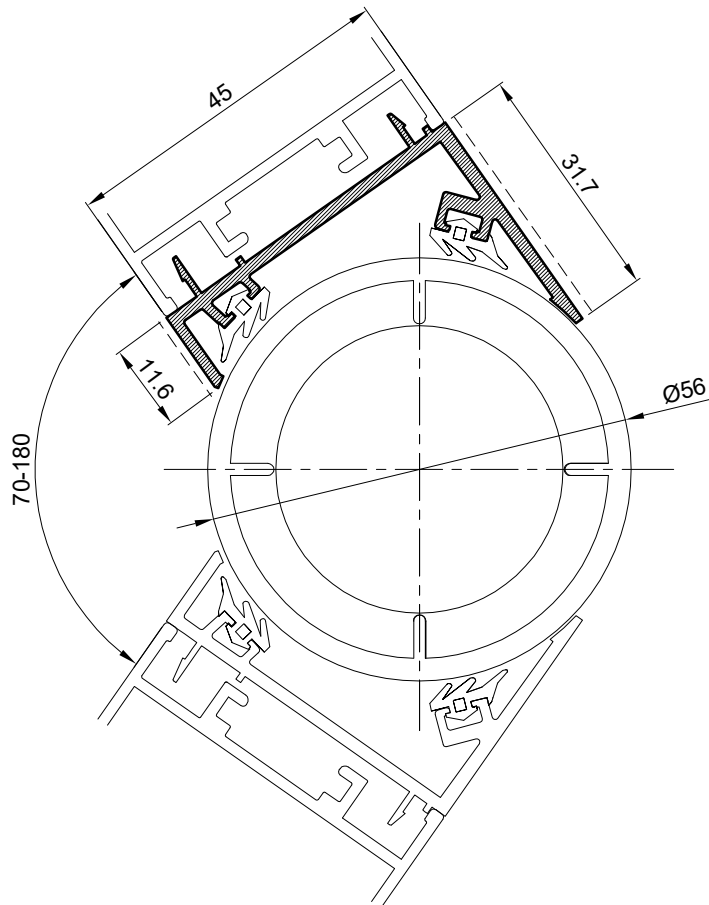
Profil Profile		
Art.Br. Art.Nr.	H-638	
Težina Weight	kg/m'	0.291
Opseg Perimeter	mm	167.00
L	mm	6500



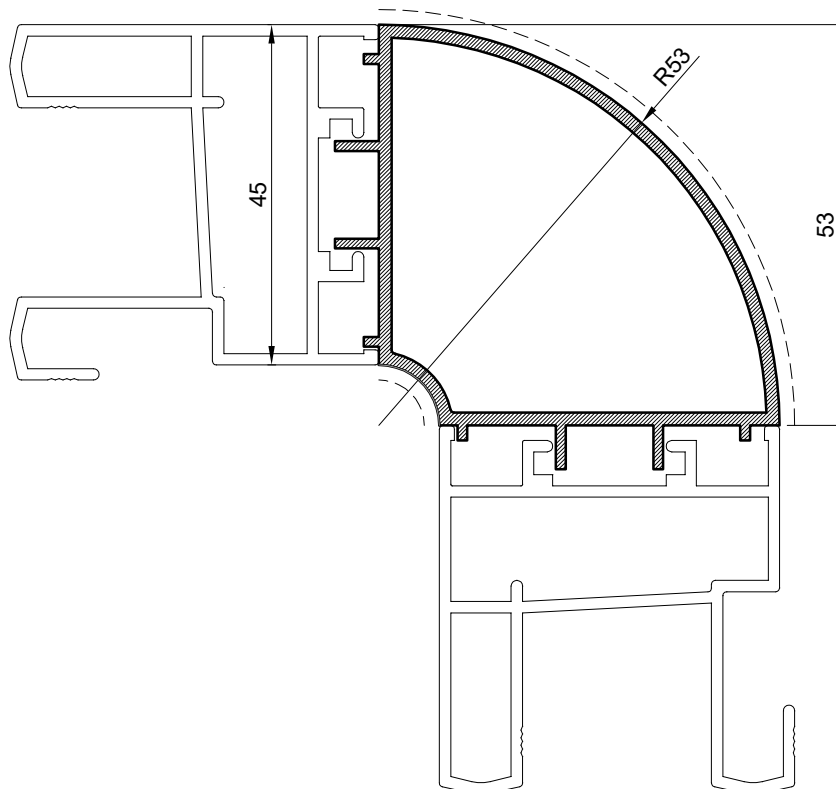
Profil ispune Fill profile		
Art.Br. Art.Nr.	F-0681	
Težina Weight	kg/m'	0.920
Opseg Perimeter	mm	305
Moment inercije Moments of inertia	Ix (cm4)	32.68
	Iy (cm4)	2.44
	Wx (cm3)	6.29
	Wy (cm3)	2.51
L	mm	6500



Profil ispune Fill profile		
Art.Br. Art.Nr.	F-0187	
Težina Weight	kg/m'	0.397
Opseg Perimeter	mm	111.00
L	mm	6500

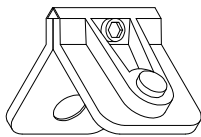
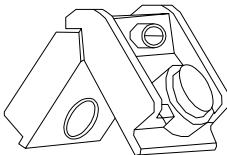
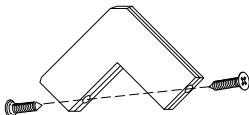


Profil Profile		
Art.Br. Art.Nr.	M45-752	
Težina Weight	kg/m'	0.510
Opseg Perimeter	mm	239
Moment inercije Moments of inertia	I _x (cm ⁴)	1.28
	I _y (cm ⁴)	4.96
	W _x (cm ³)	0.64
	W _y (cm ³)	1.76
L	mm	6500



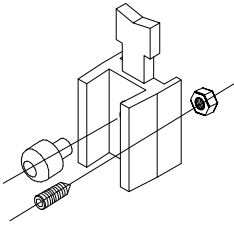
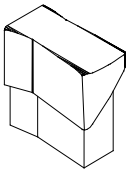
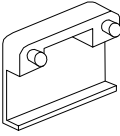
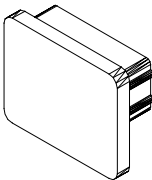
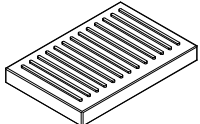
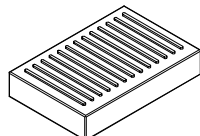
Profil Profile		
Art.Br. Art.Nr.	M45-754	
Težina Weight	kg/m'	0.932
Opseg Perimeter	mm	248
Moment inercije Moments of inertia	I _x (cm ⁴)	12.28
	I _y (cm ⁴)	12.28
	W _x (cm ³)	3.94
	W _y (cm ³)	3.94
L	mm	6500

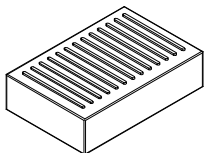
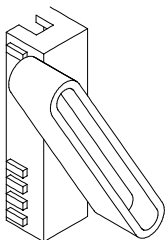
Vezni elementi Connection elements

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
730.013		- Kutnik okvira - Stara oznaka 0432 - Frame corner bracket - Former code 0432		
730.014		- Kutnik krila - Stara oznaka 0404 - Sash corner bracket - Former code 0404		
140.005		- Kutnik komarice - Corner bracket for mosquito net	PVC	

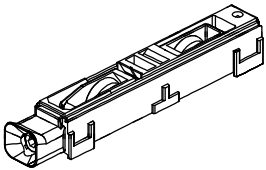
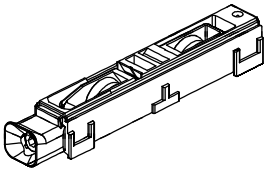
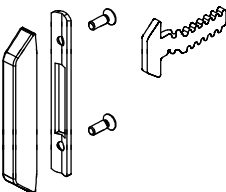
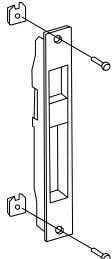
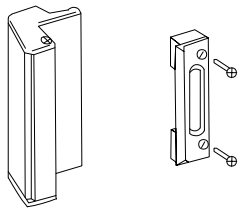
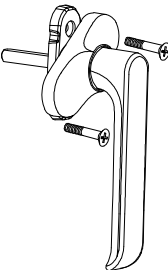
PVC elementi

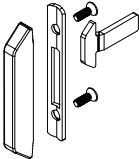
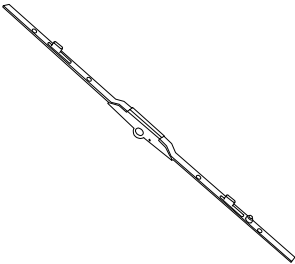
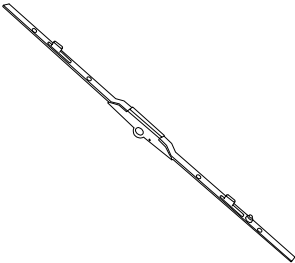
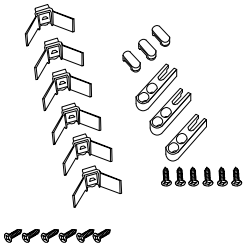
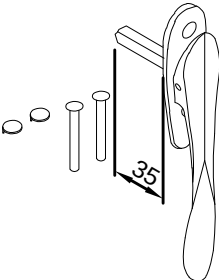
PVC elements

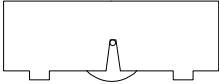
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
375.069		-Odstojnik i osigurač od vađenja krila (Harmo) -Stara oznaka: 5606006 -Spacer and protector from sash extraction (Harmo) -Former code: 5606006	PVC	
370.008		- Umetak-masku za profil H-633 - Stara oznaka 560GI03 - Insert-mask for profile H-633 - Former code: 560GI03	PVC	
373.003		- Masku za drenažni otvor - Stara oznaka 2328 - Mask for drainage hole - Former code: 2328	PVC	
373.065		- Umetak za profil H-636 - Stara znaka: 370.010 i 560GI04 - Insert for profile H-636 - Former code: 370.010 and 560GI04	PVC	
370.000		- Podmetači za staklo (3 mm)	PVC	
370.001		- Podmetači za staklo (5 mm)	PVC	

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
370.002		- Podmetači za staklo (7 mm)	PVC	
373.005		-Umetak za fiksnu grilju -umeće se u profil H-638 -prihvaća profil F-0187 - Stara oznaka: 2101-PR -Fixed shutter insert -insert into profile H-638 -accepts profile F-0187 -Former code:2101-PR	PVC	

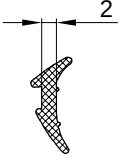
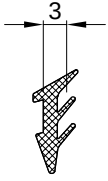
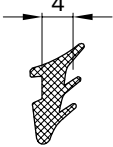
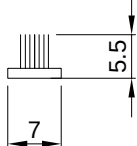
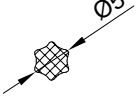
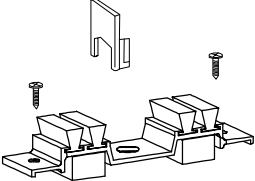
Mehanizmi Mechanisms

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
140.001		- Kotačići-nosivost 100 kg/par - Stara oznaka 0595 RC - Bogies - capacity 100 kg/pair - Former code 0595 RC	-	
143.008		- Kotačići - nosivost 110 kg/par - Stara oznaka GS 3120 - Bogies - capacity 110 kg/pair - Former code GS 3120	-	
140.003		- Bravica-jezičak sa prihvatnikom - Stara oznaka 0995 RC - Lock - tongue with acceptor (panel) - Stara oznaka 0995 RC	-	
		- Bravica - pogonski dio - Lock - driving part	-	
105.001		- Rukohvat za pogon krila - Stara oznaka 3172 - Handle for sash driving - Former code 3172	-	
104.016.01 02 03		- Ručka za vrata - Oznaka proizvođača Stublina: 1110.00 - Boje: 01- bijela; 02 - siva;03 - crna - Door handle - Manufacturer code Stublina: 1110.00 - Color: 01- white; 02 - gray;03 - black		

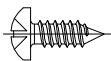
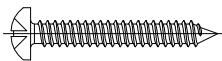
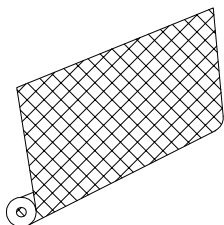
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
105.010		-Bravica-jezičak s prihvatnikom -Oznaka proizvođača:04902 - Nib and a counterplate - Former code 04902		
105.006.01 02 03		-Bravica-pogonski dio -Oznaka proizvođača:02988 - Locking-drive part - Former code 02988		
130.003		- Ključanje u dvije točke - Stara oznaka A6392 ključanje FAST LOCK L=1000 mm - Locking in two points - Former code A6392 locking FAST LOCK L=1000 mm		
130.006		- Ključanje u tri točke - Stara oznaka A6394 ključanje FAST LOCK L=1800 mm - Locking in three points - Former code A6394 locking FAST LOCK L=1800 mm		
130.007		- Ključanje u više točaka - Stara oznaka A6392.A2 - KIT FAST LOCK - klizno Harmo - Locking in more points - Former code A6392.A2 - KIT FAST LOCK - sliding Harmo		
105.009.01 02 03		- Pogonska ručica za bravu crna bijela siva - Stara oznaka art.0249201(Giese) - Driving handle for locking black white gray - Former code art.0249201 (Giese)		

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
140.006		- Kotačiči komarice - Mosquito net rollers		

Brtila Gaskets

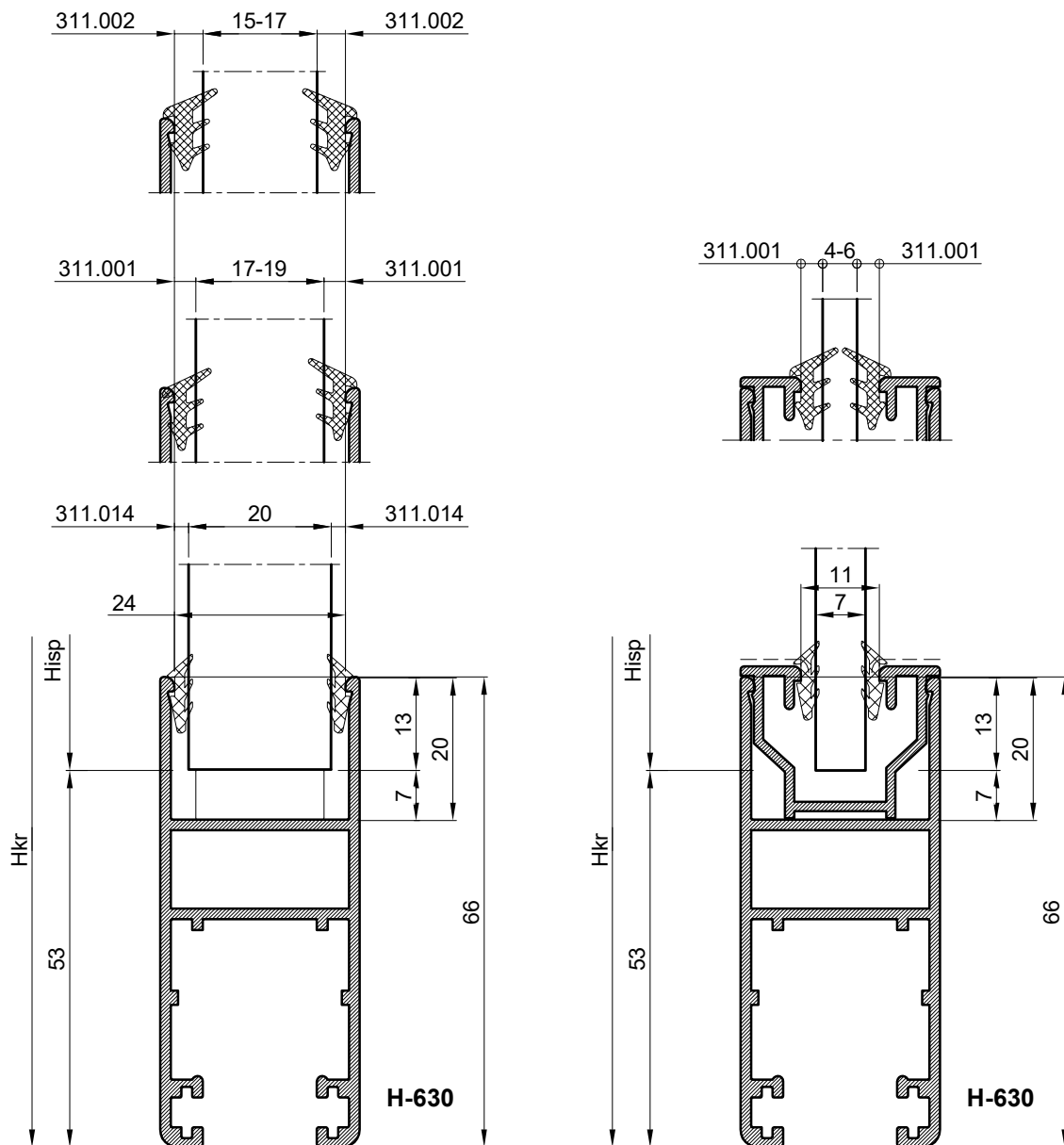
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
318.014		- Brtva prema staklu-unutarnja - Nosi 2 mm - Oznaka proizvođača- 02800 (Complastex) -Gasket to the glass /interior/ -Wearing thickness 2mm -Former code 02800 (Complastex)	EPDM	
318.001		- Brtva prema staklu - unutarnja - Nosi 3 mm - Oznaka proizvođača- 02951 (Complastex) - Gasket to the glass /interior/ -Wearing thickness 3mm - Former code 02951 (Complastex)	EPDM	
318.002		- Brtva prema staklu - unutarnja - Nosi 4 mm - Oznaka proizvođača- 02952 (Complastex) -Gasket to the glass /interior/ -Wearing thickness 4mm -Former code 02952 (Complastex)	EPDM	
347.004		- Četkasta brtva 7x5.5 - Stara oznaka PB*HFC - Brush gasket 7x5.5 - Former code PB*HFC		
340.048		-Brtva - držač mreže komarice -Stara oznaka 00600/55 -Gasket - mosquito net holder -Former code 00600/55		
340.010		- Komplet brtvalo i maska - Stara oznaka 560GI01 - Set sealing and mask - Former code 560GI01	-	

Dodaci Accessories

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
433.002		- 3.5x9.5 DIN 7981	-	
433.116		- 4.2X13DIN 7982	-	
433.032		- 4.2x25 DIN 7981	-	
340.047		Mreža komarice Mosquito net	PVC	
			-	

Prikaz stakljenja Glazing

MJERE ISPUNE I BRTVLJENJE PREMA ISPUNI FILLING MEASURE AND SEALING TOWARDS FILLING



MJERA ISPUNE PREMA PROFILIMA KRILA

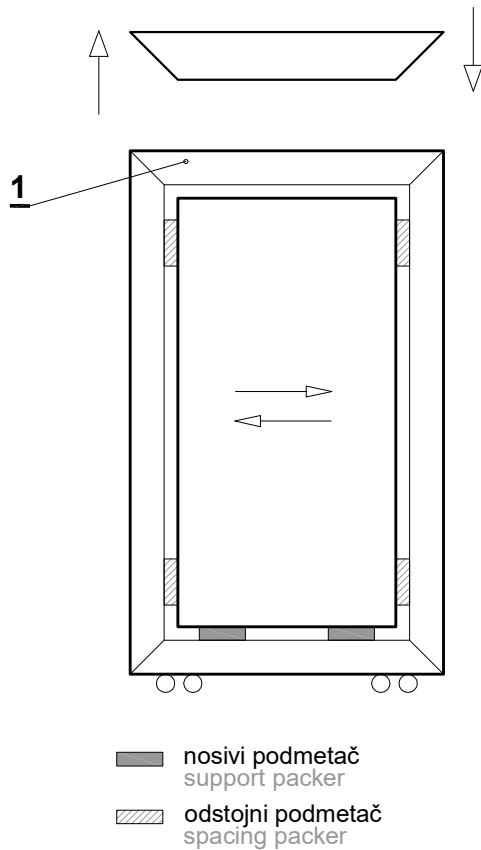
- $H_{isp} = H_{kr} - 106$
- $L_{isp} = L_{kr} - 106$

Za profile krila i prečke: H-630, H-633, H-635

FILLING MEASURE TOWARDS SASH PROFILES

- $H_{fill} = H_{sh} - 106$
- $L_{fill} = L_{sh} - 106$

For sash and mullion profiles: H-630, H-633, H-635



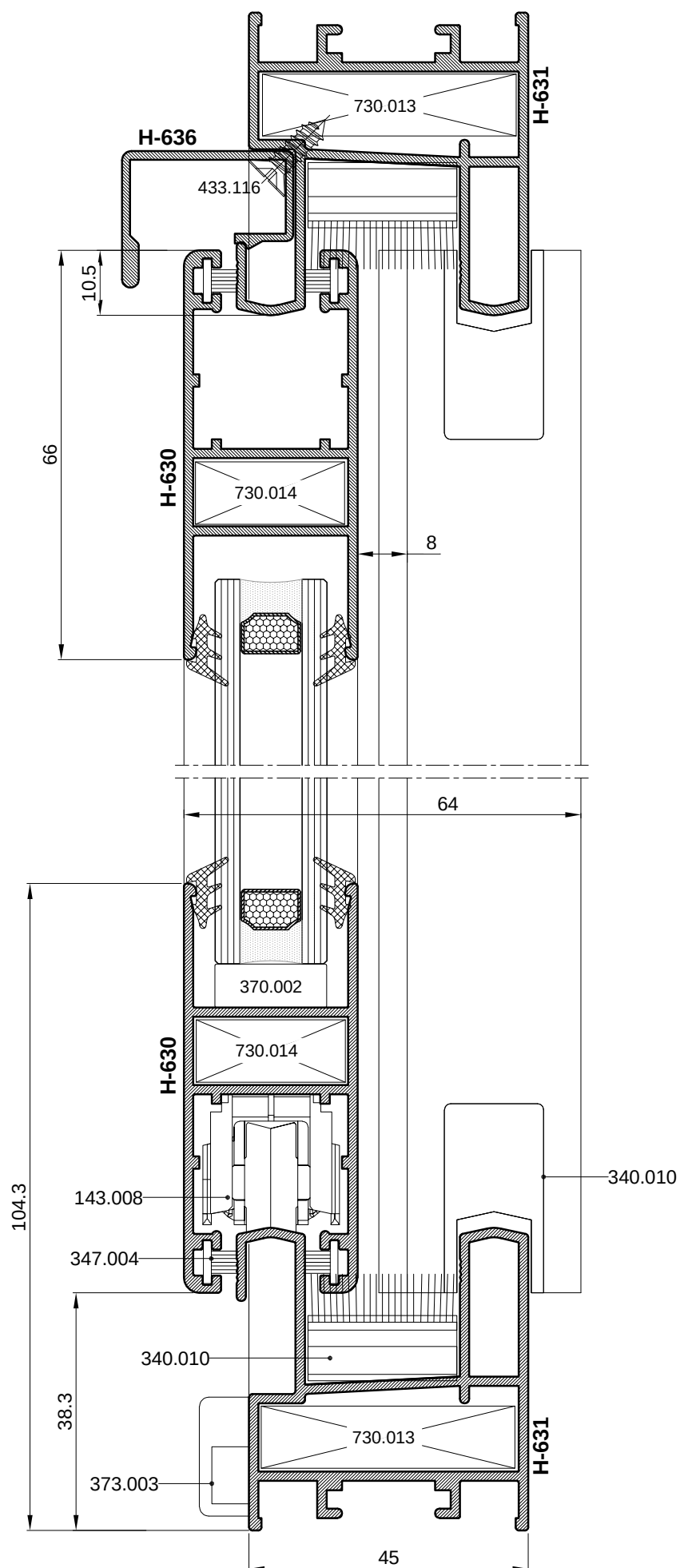
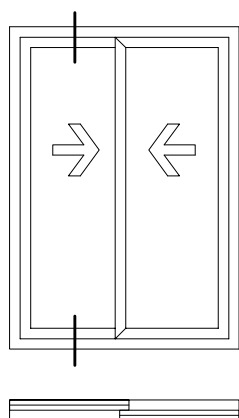
UGRADNJA ISPUNE U KRILO

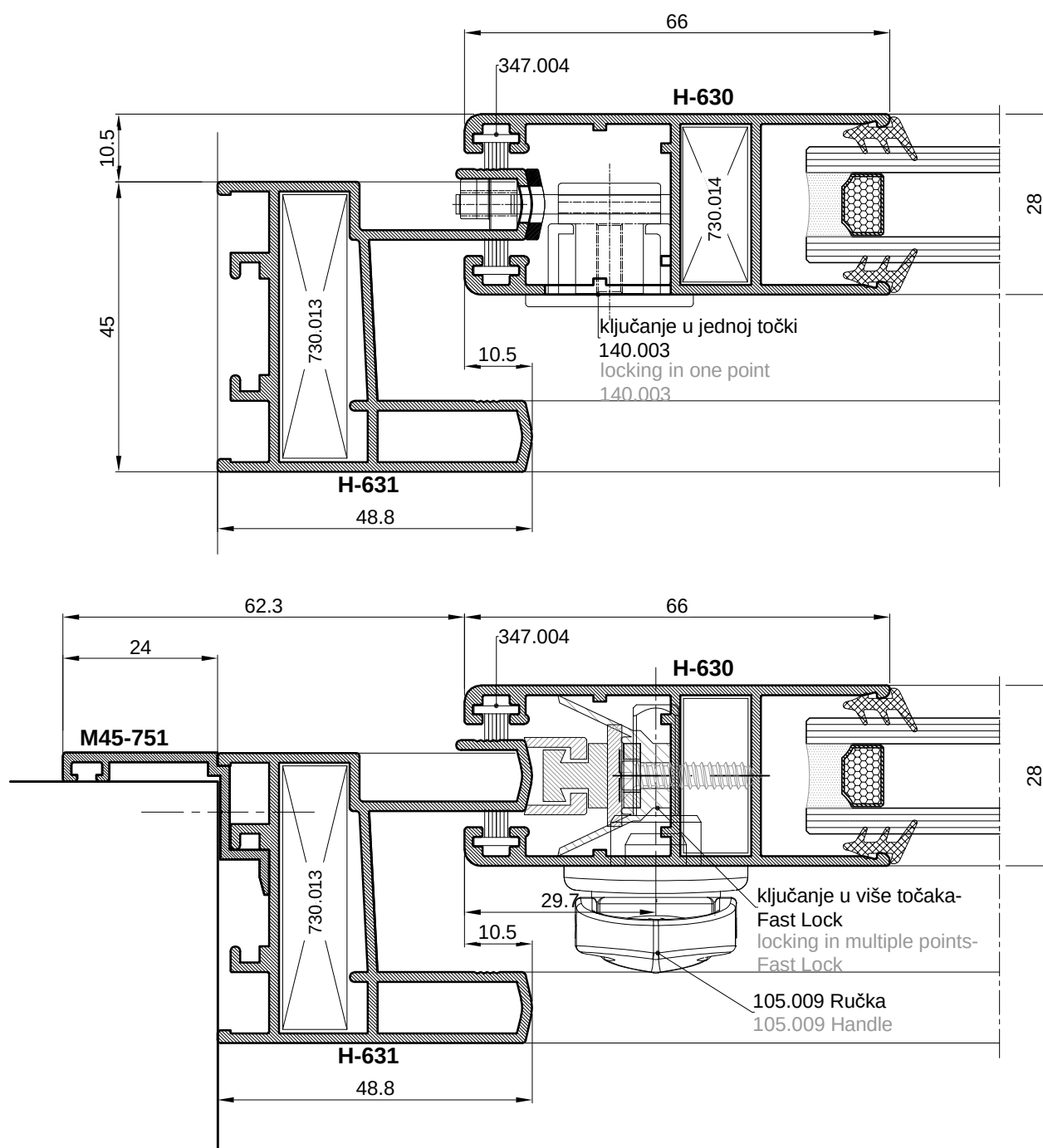
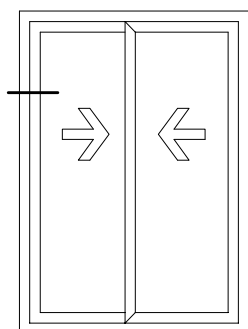
1. gornji vodoravni pojas krila 1 odvojiti od okvira krila
2. umetnuti ispunu u okvir krila s rasporedom podmetača
-prema skici
3. vratiti vodoravni pojas krila 1 u prvobitno stanje
4. zabrtviti prostor između ispune i profila EPDM brtvama

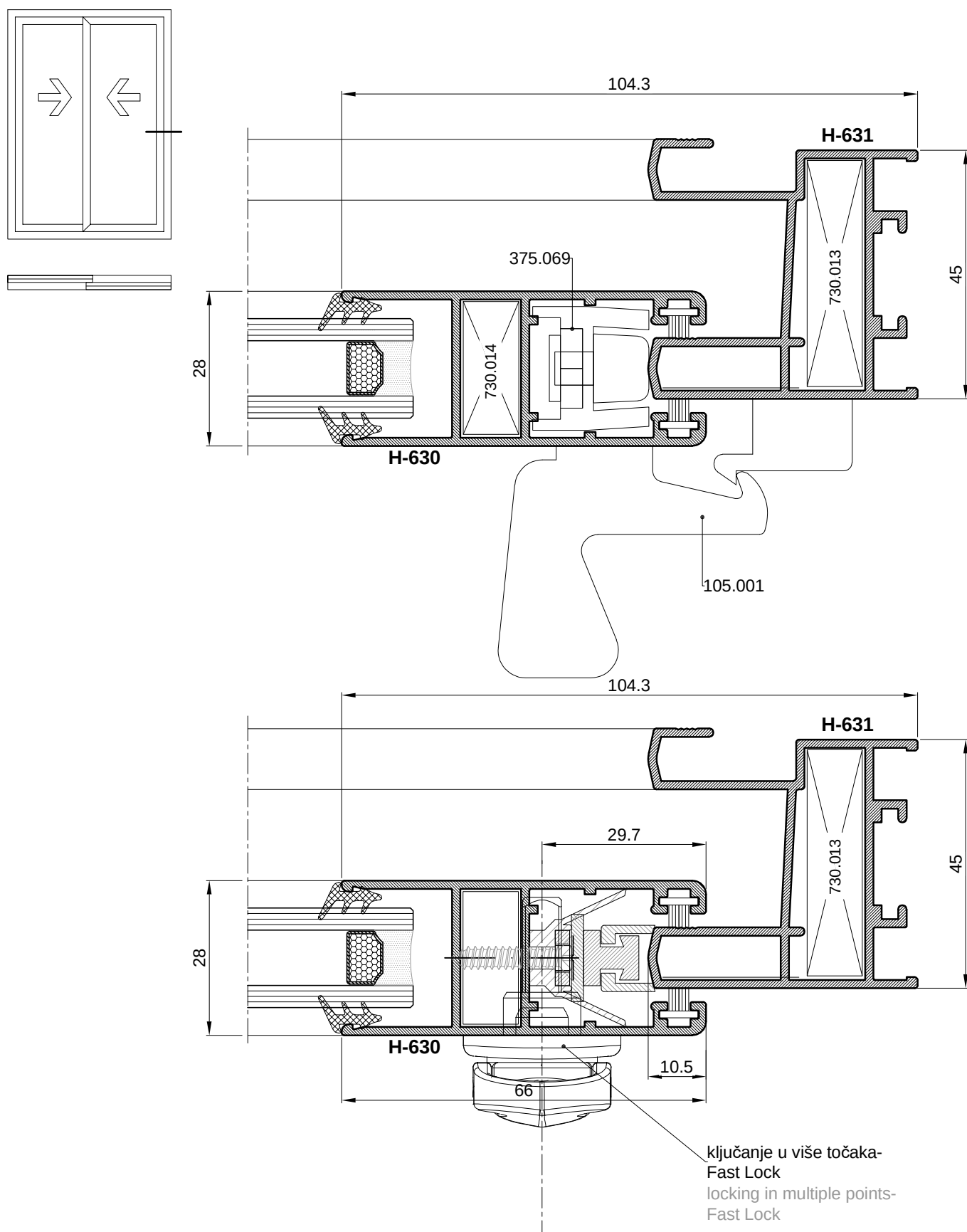
FILLING MONTAGE INTO SASH

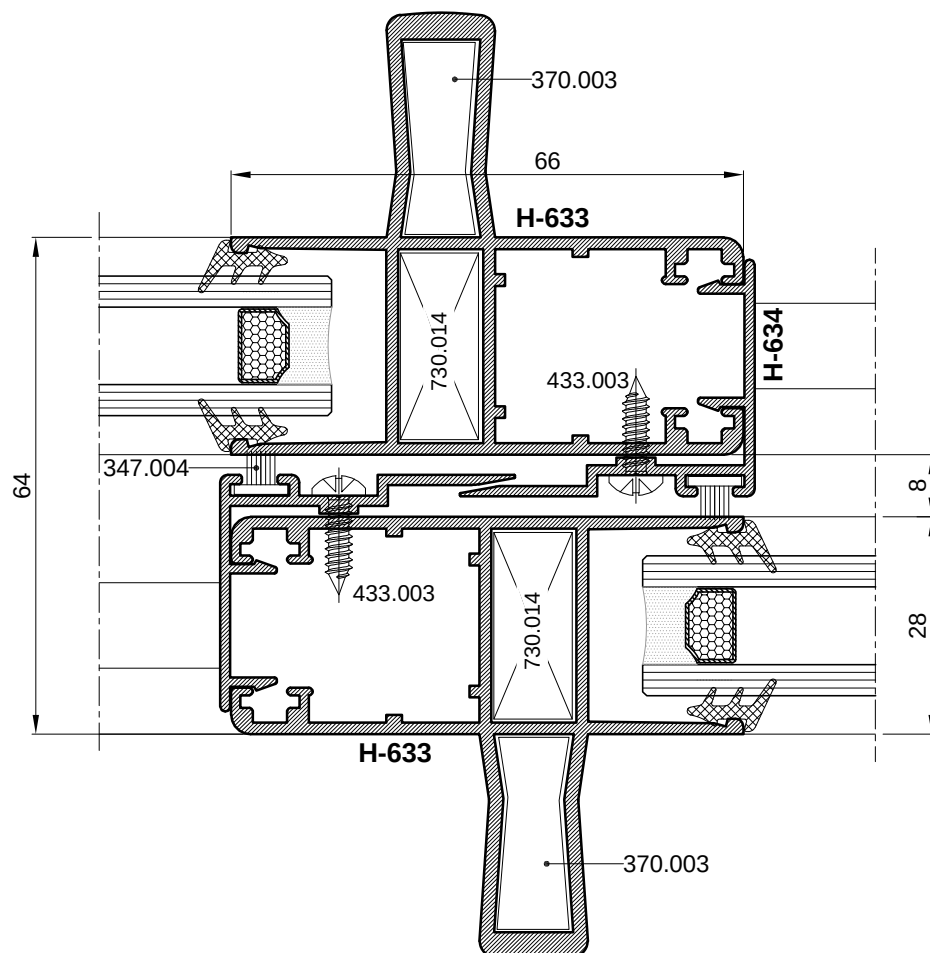
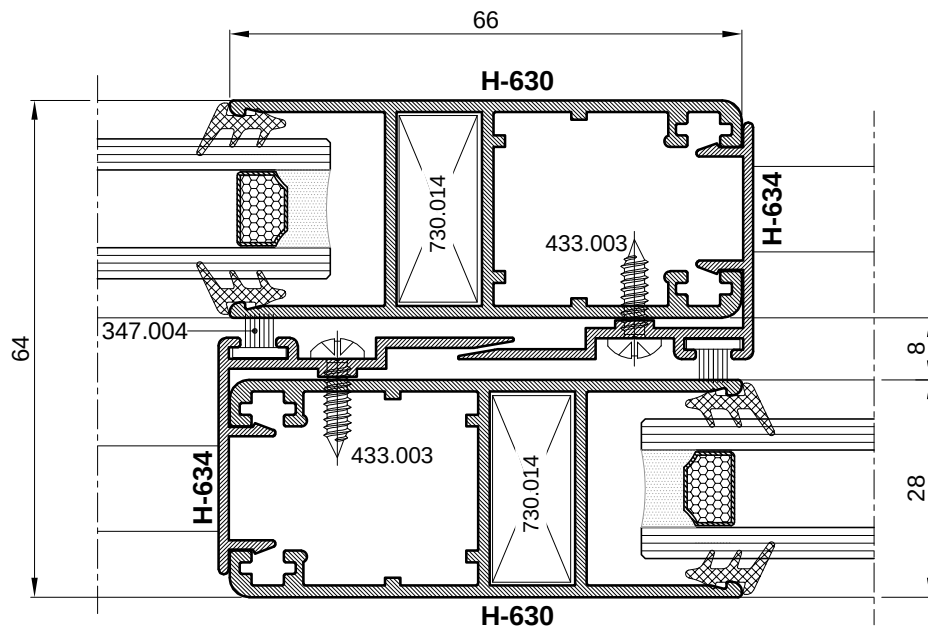
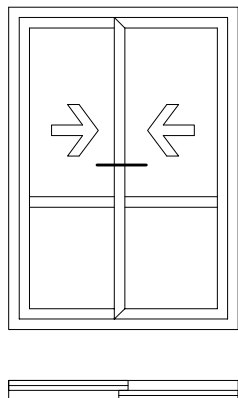
1. Upper sash horizontal field 1 separate from sash frame
2. insert filling into sash frame with packer arrangement
-as shown on drawing
3. return ash horizontal field 1 in originally state
4. seal space between filling and profile with EPDM gaskets

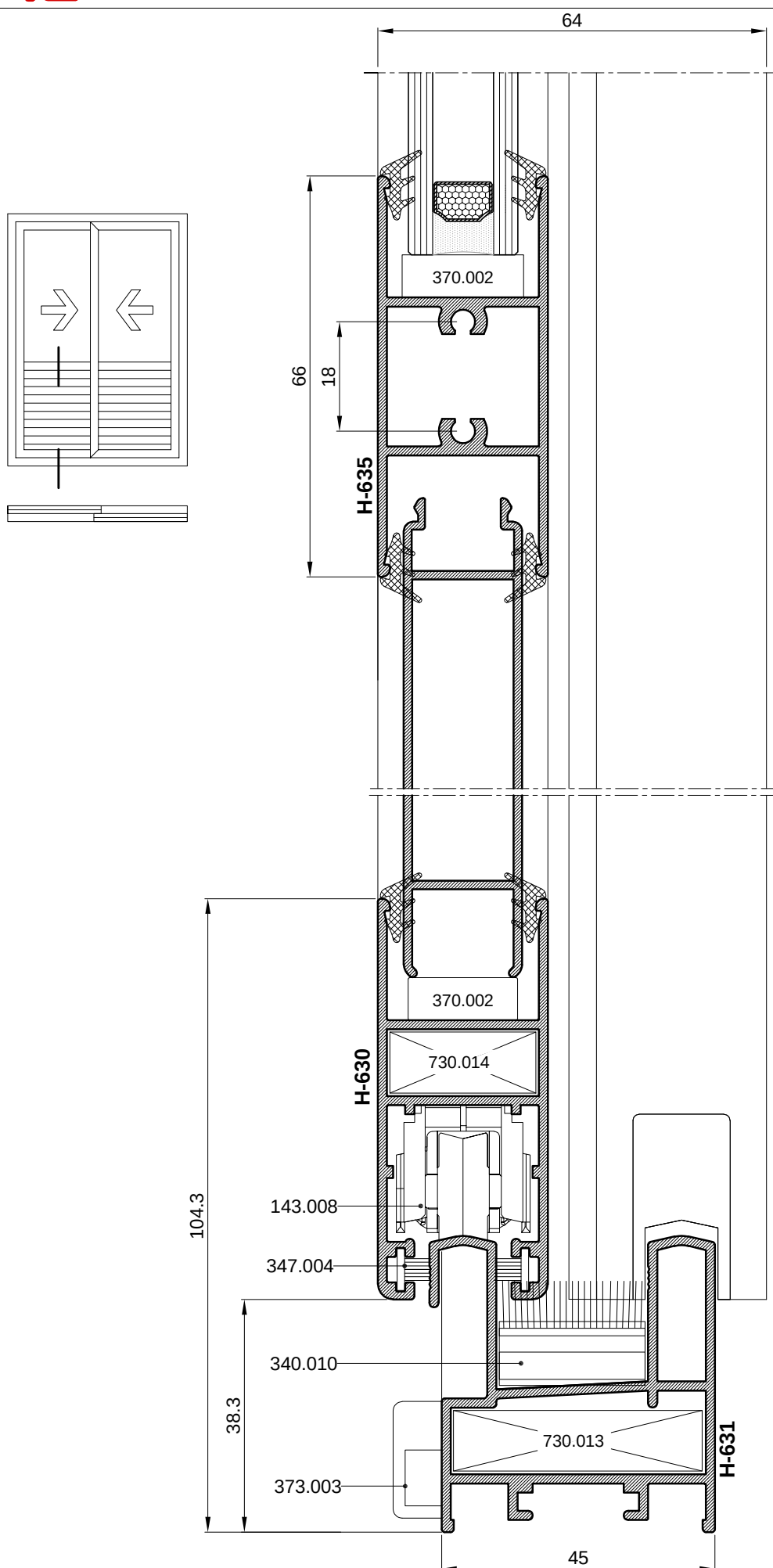
Presjeci Cross sections



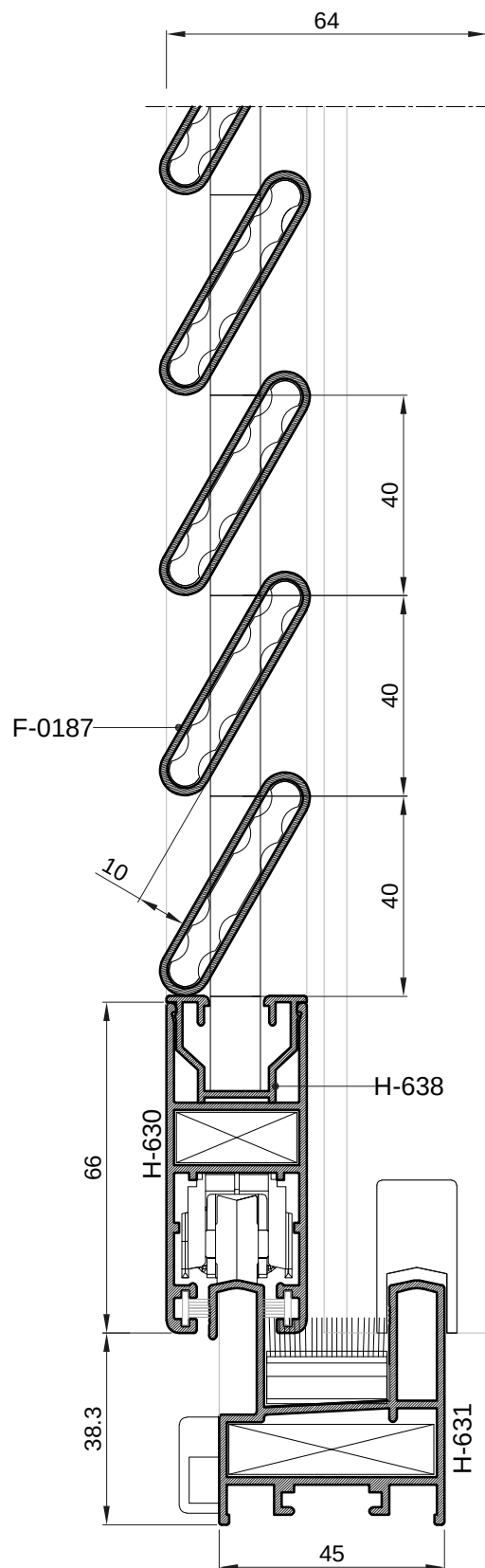
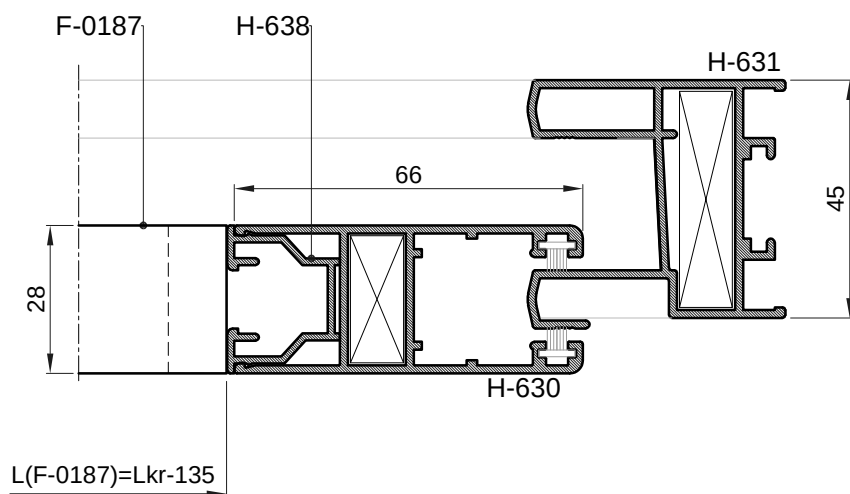
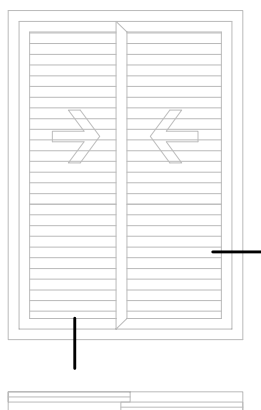


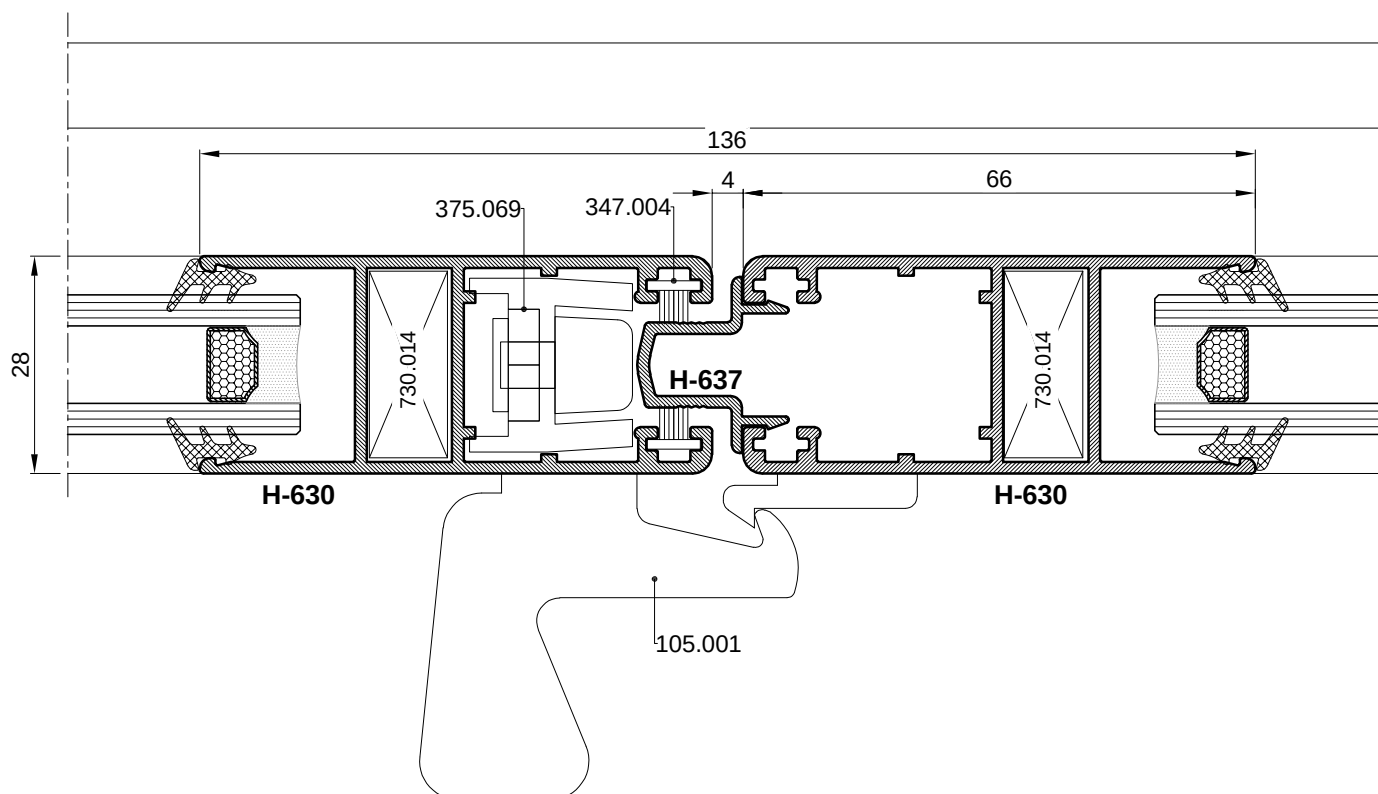
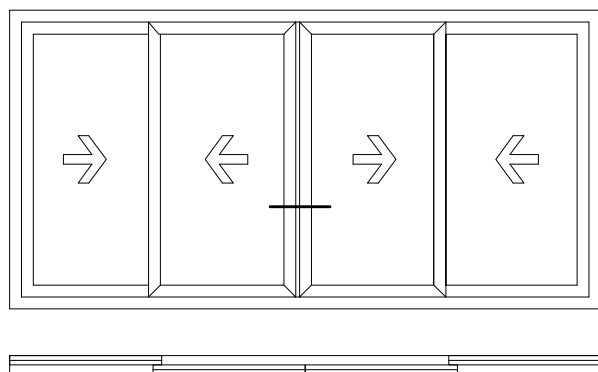


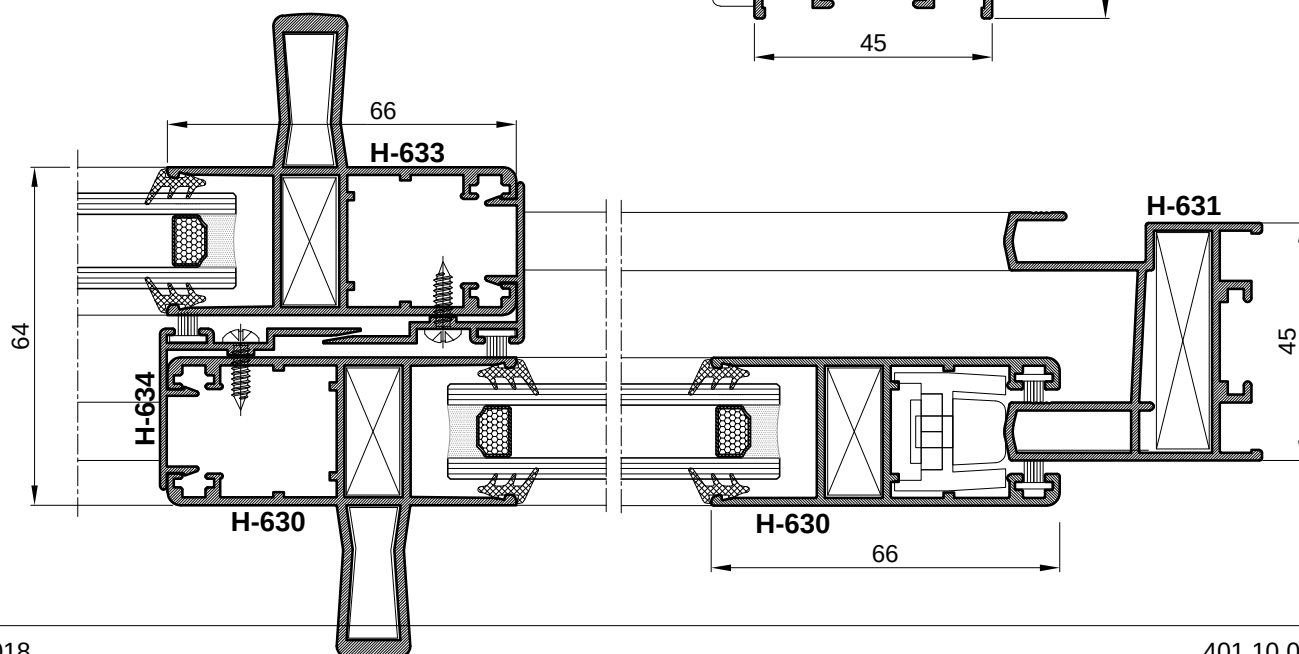
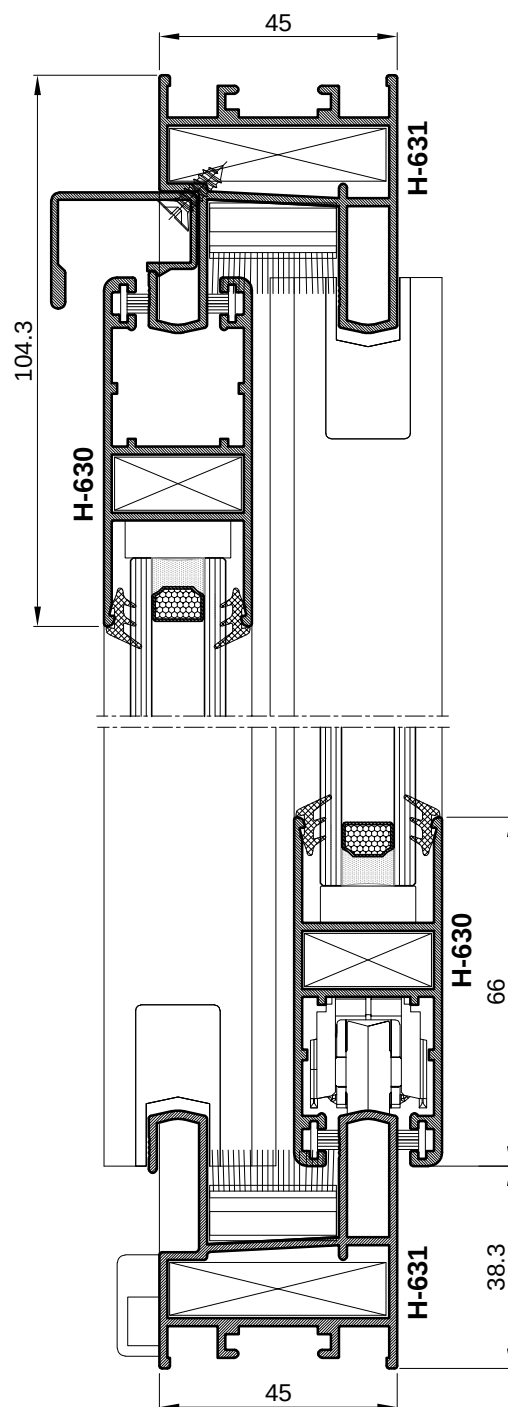
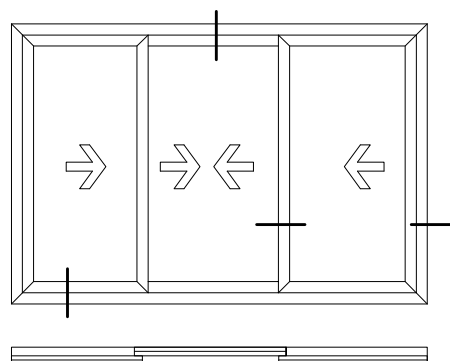


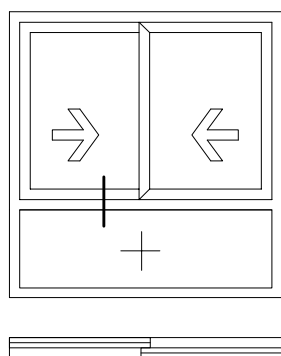


Fiksna ispuna od profila F-0187
Fixed filling from profile F-0187

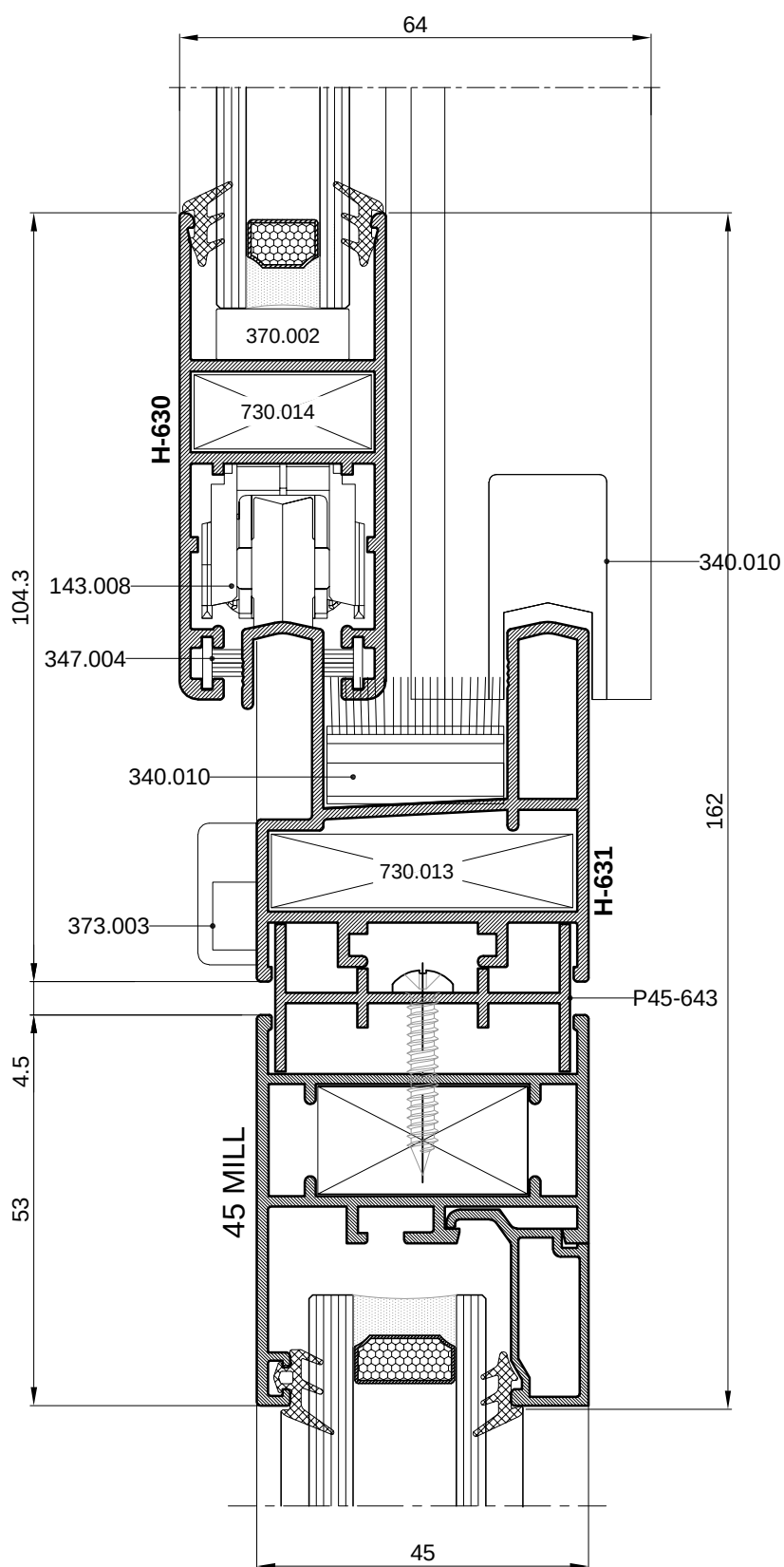




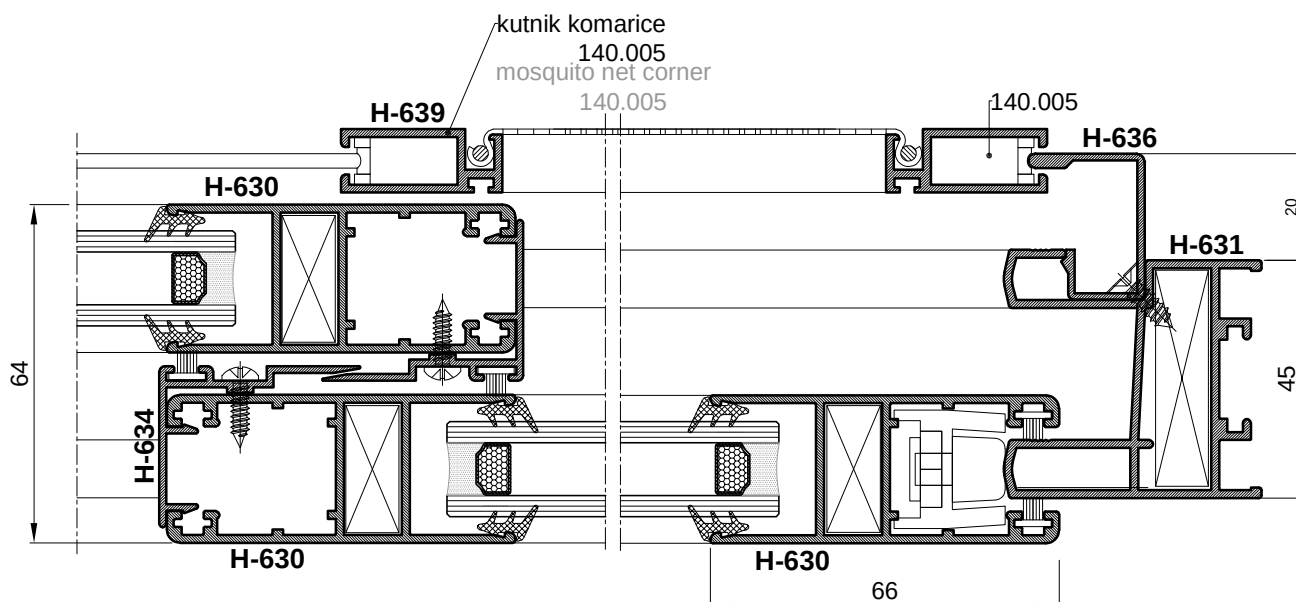
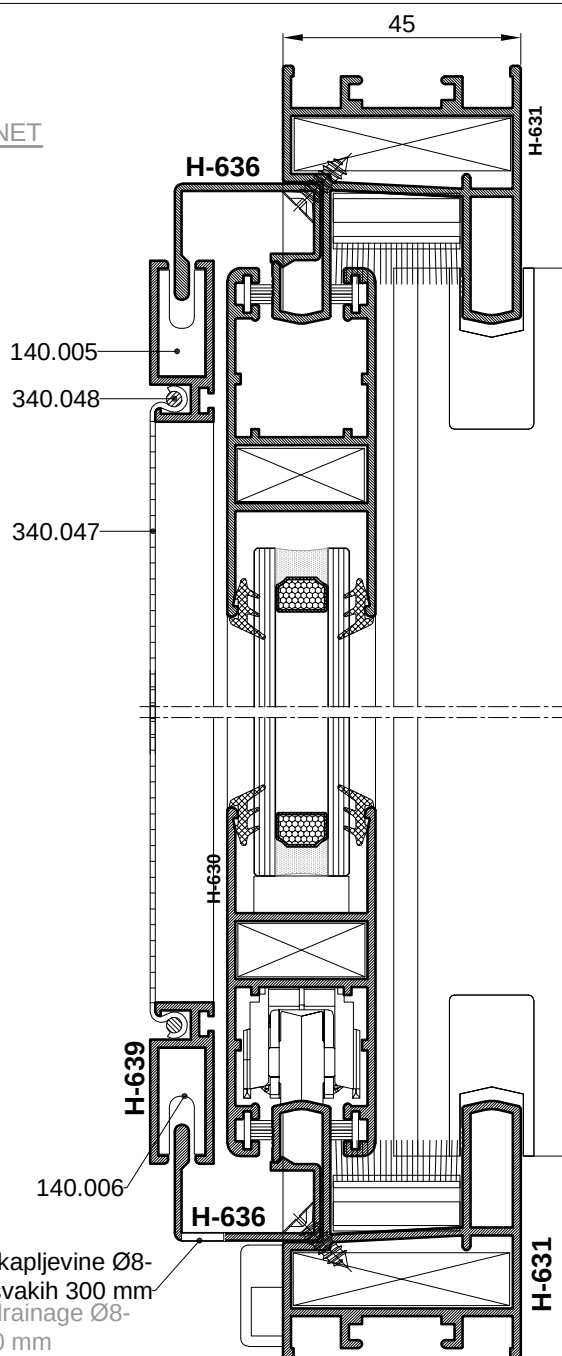
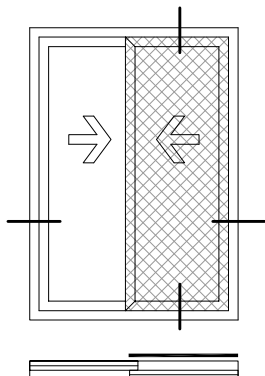


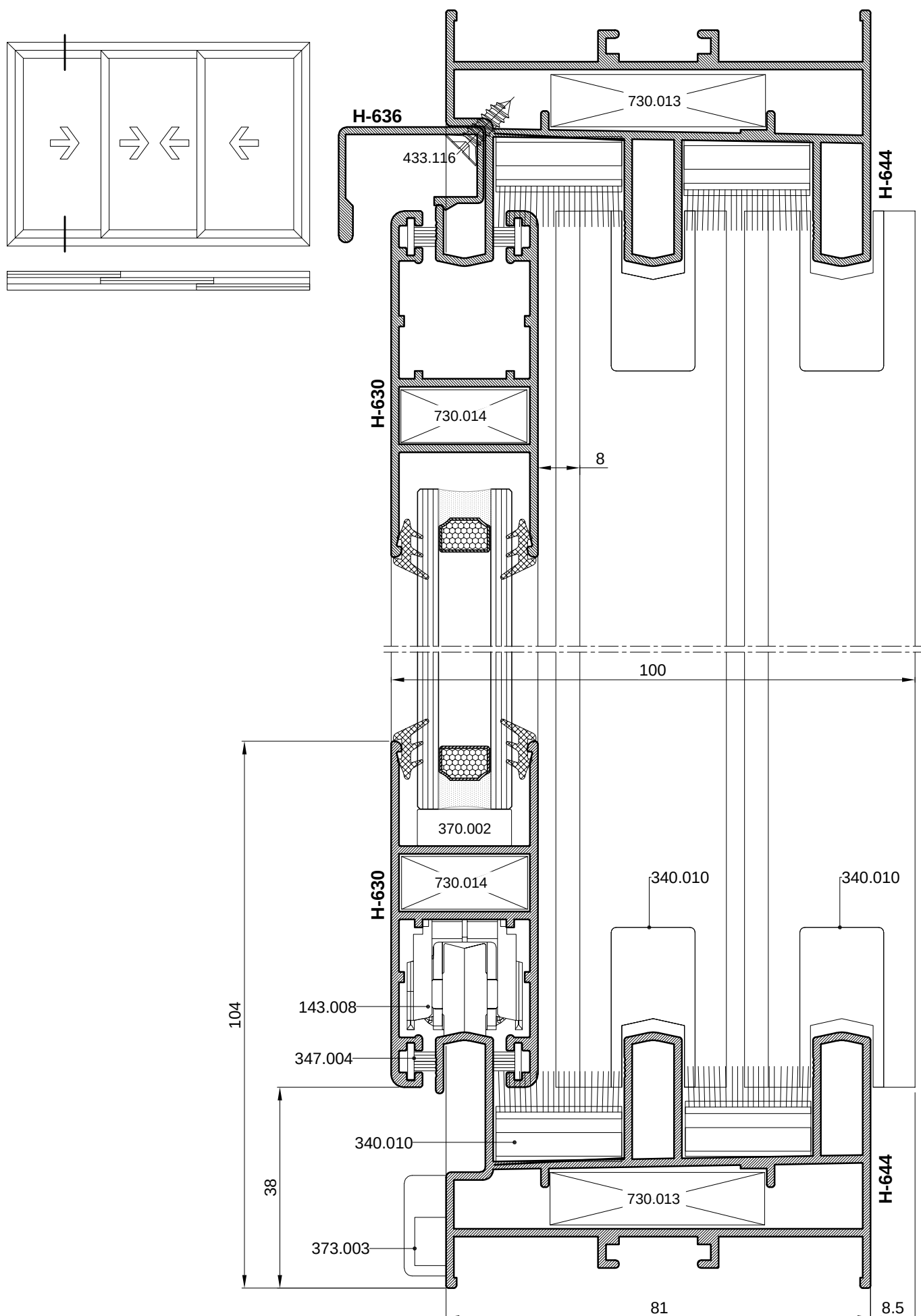


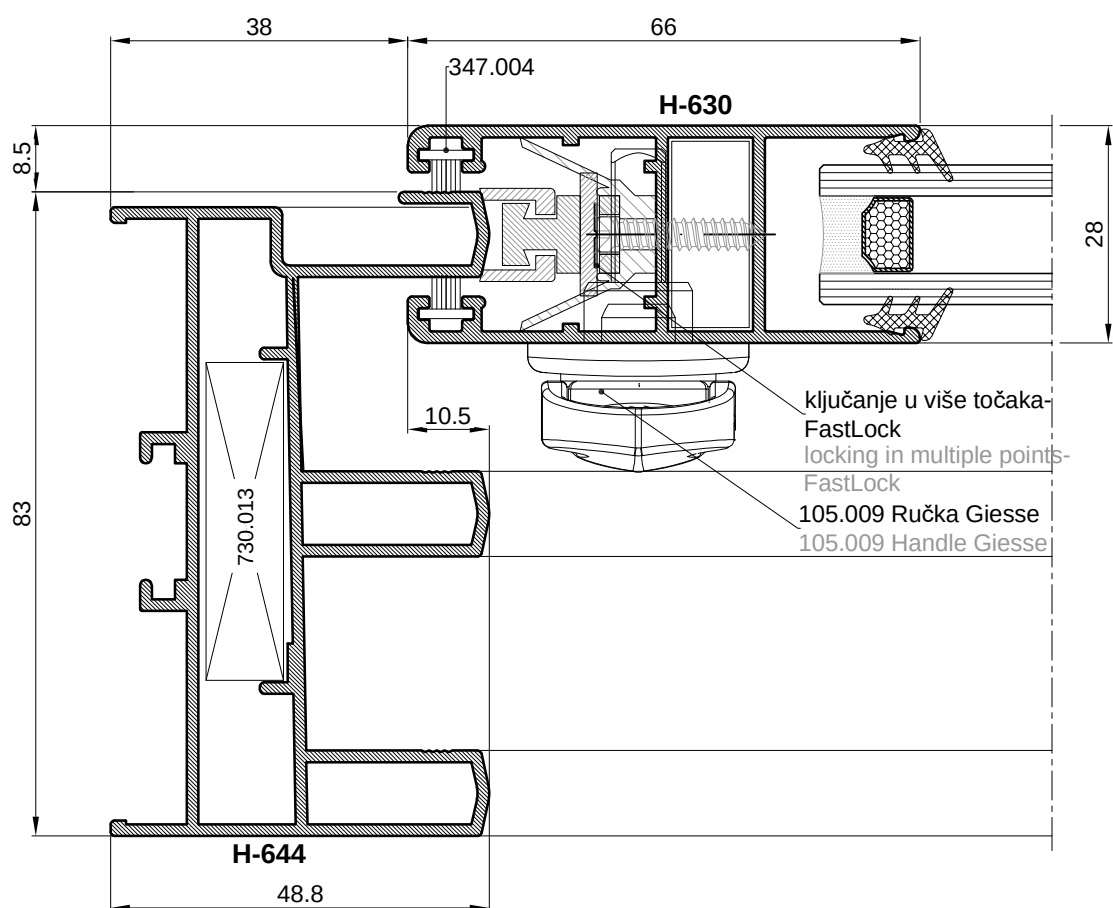
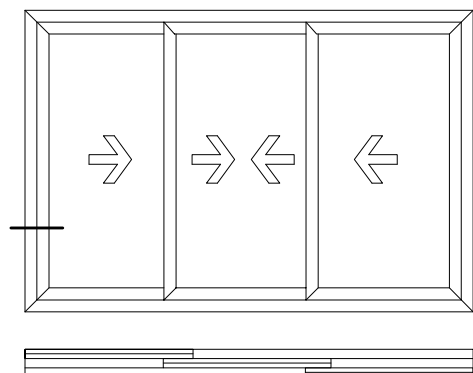
Spoj serije Harmo (dvostazno) sa serijom 45 Mill
Connection of Harmo series (two-rail) with series 45 Mill

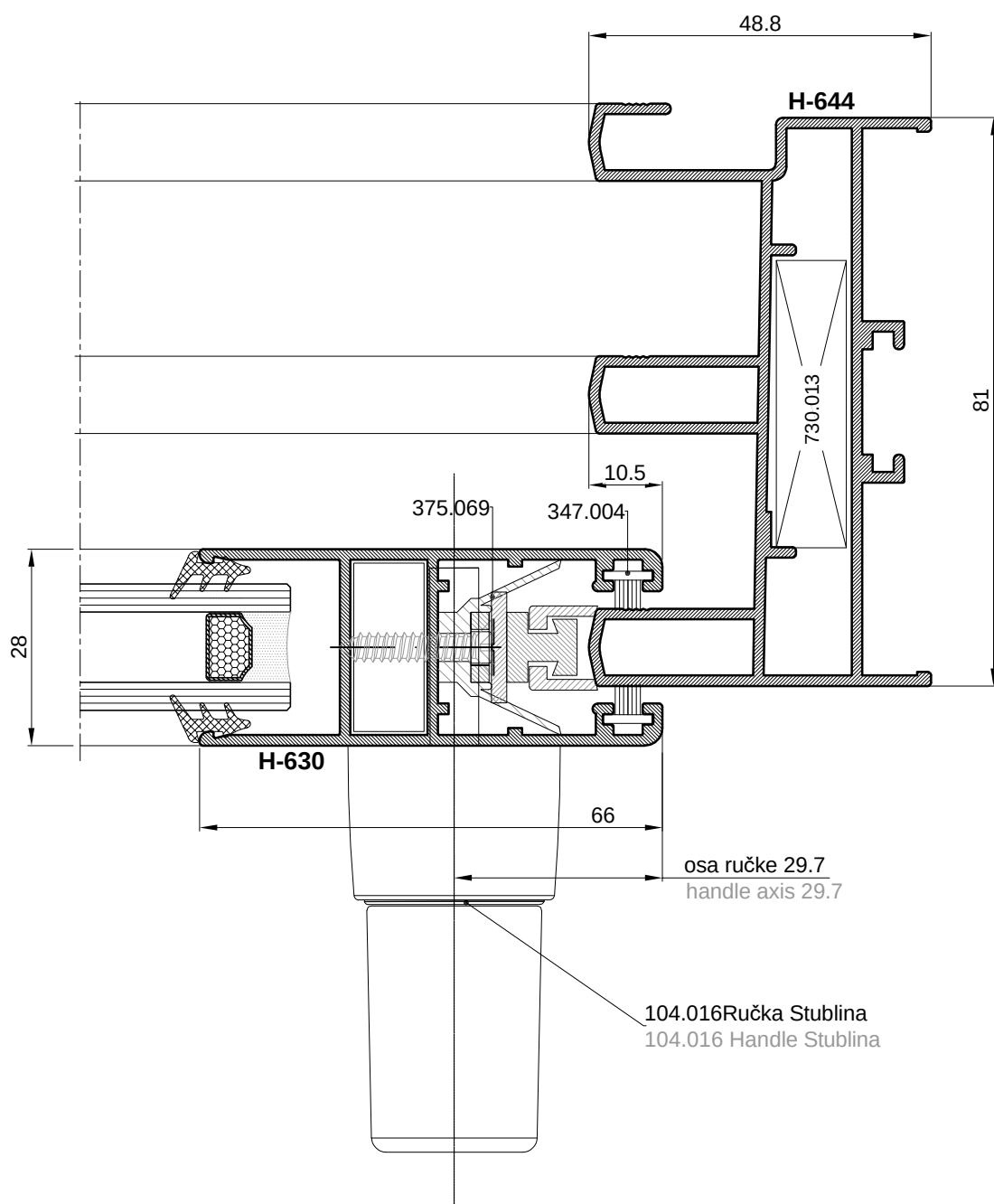
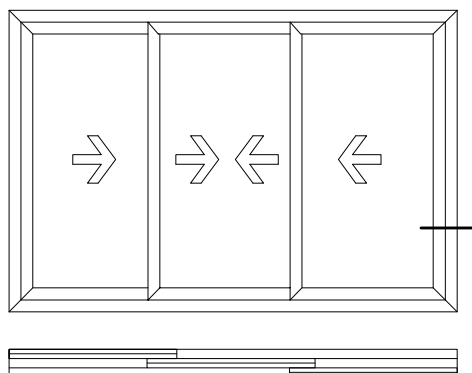


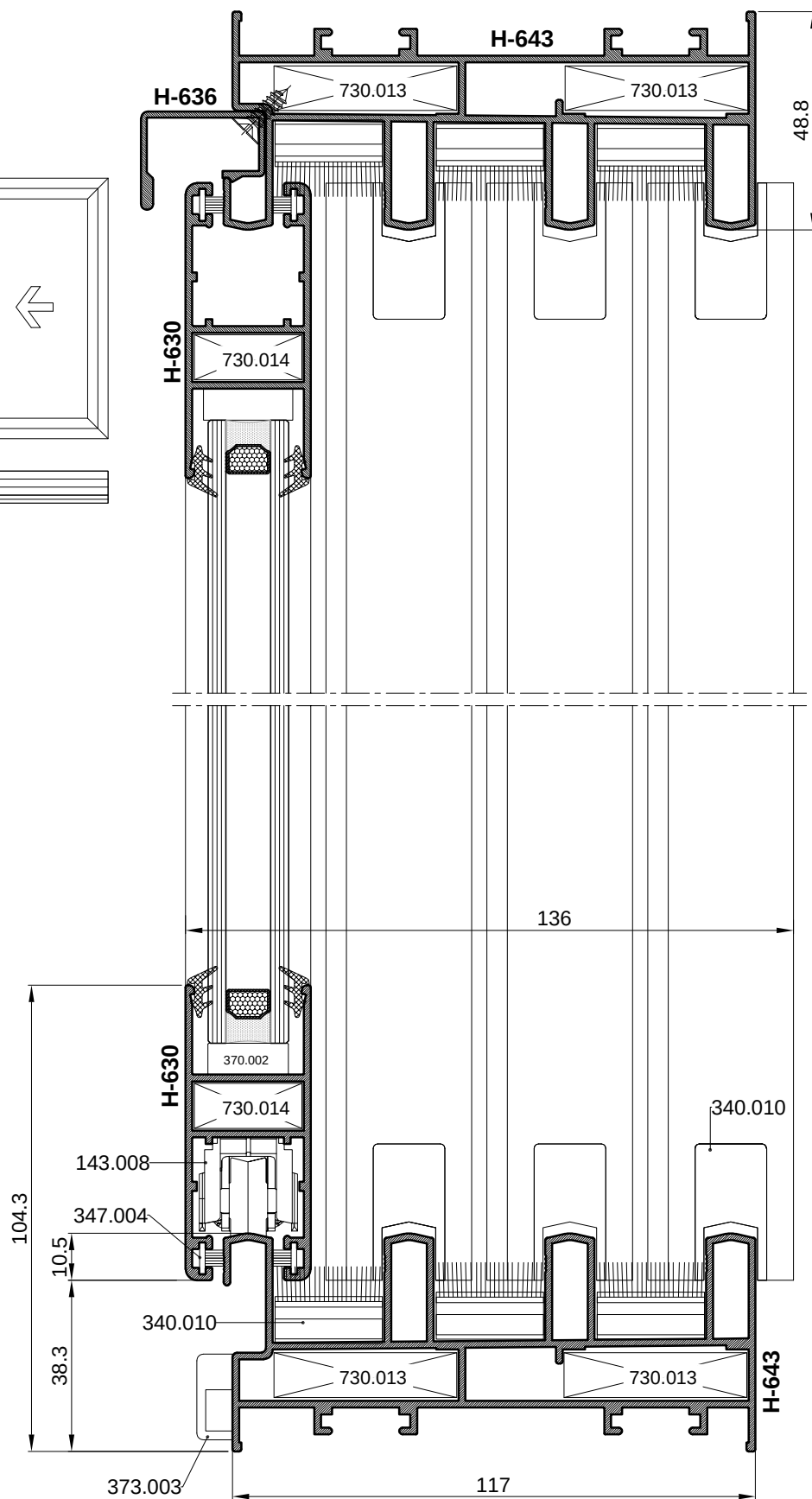
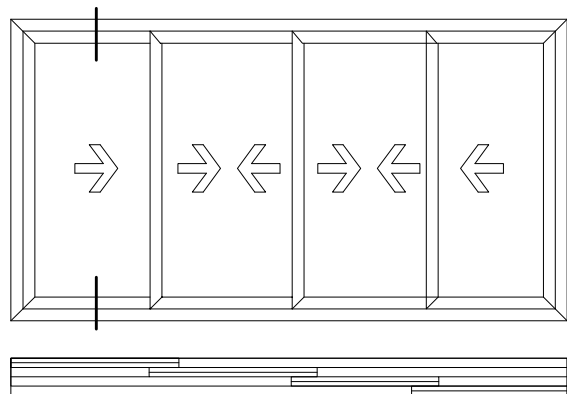
DETALJ S KLIZNOM KOMARICOM DETAIL WITH SLIDING MOSQUITO NET

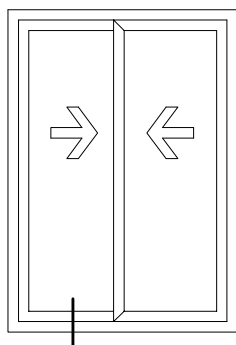




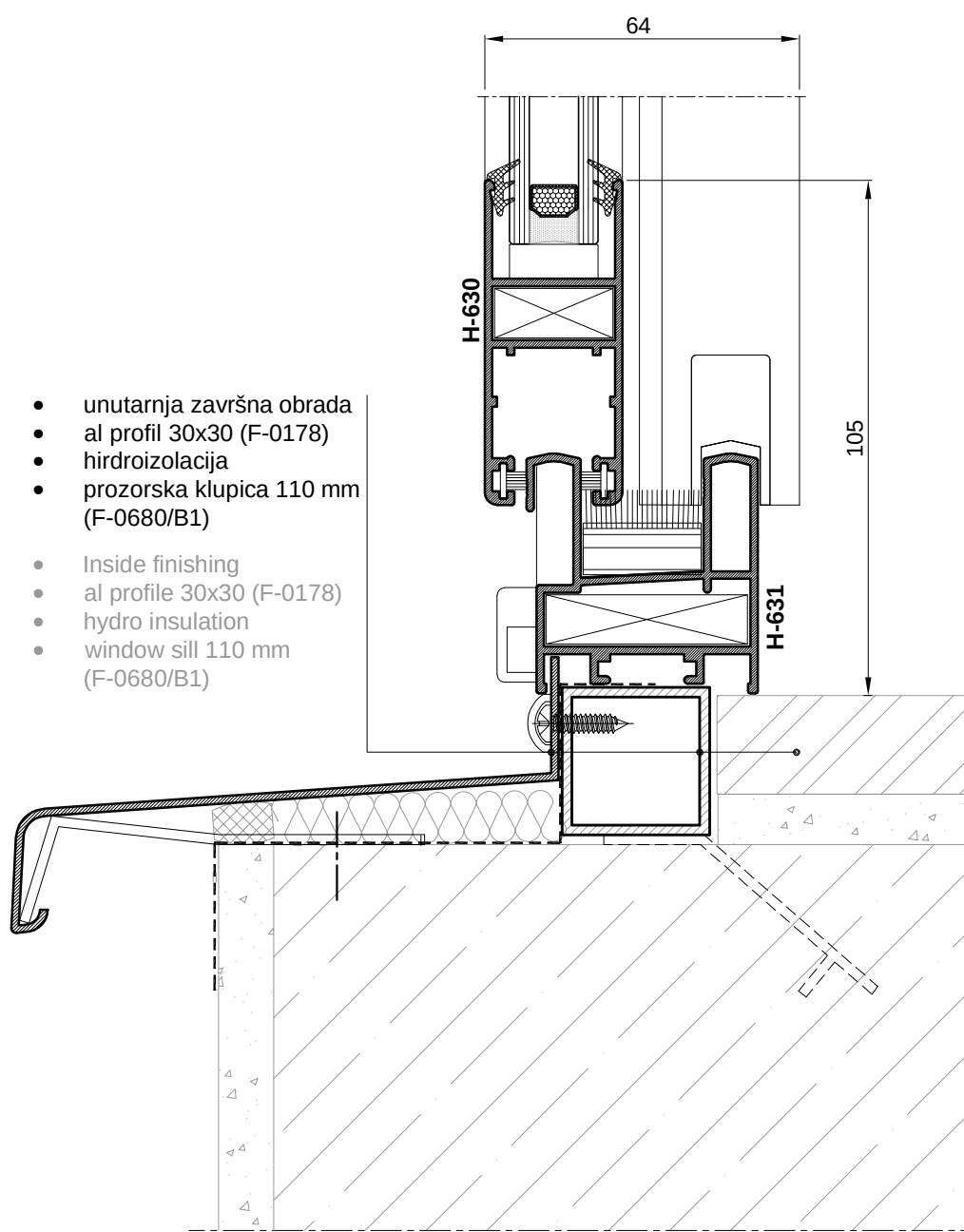


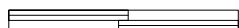
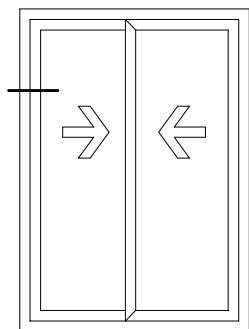






DETALJI UGRADNJE
INSTALLATION DETAIL

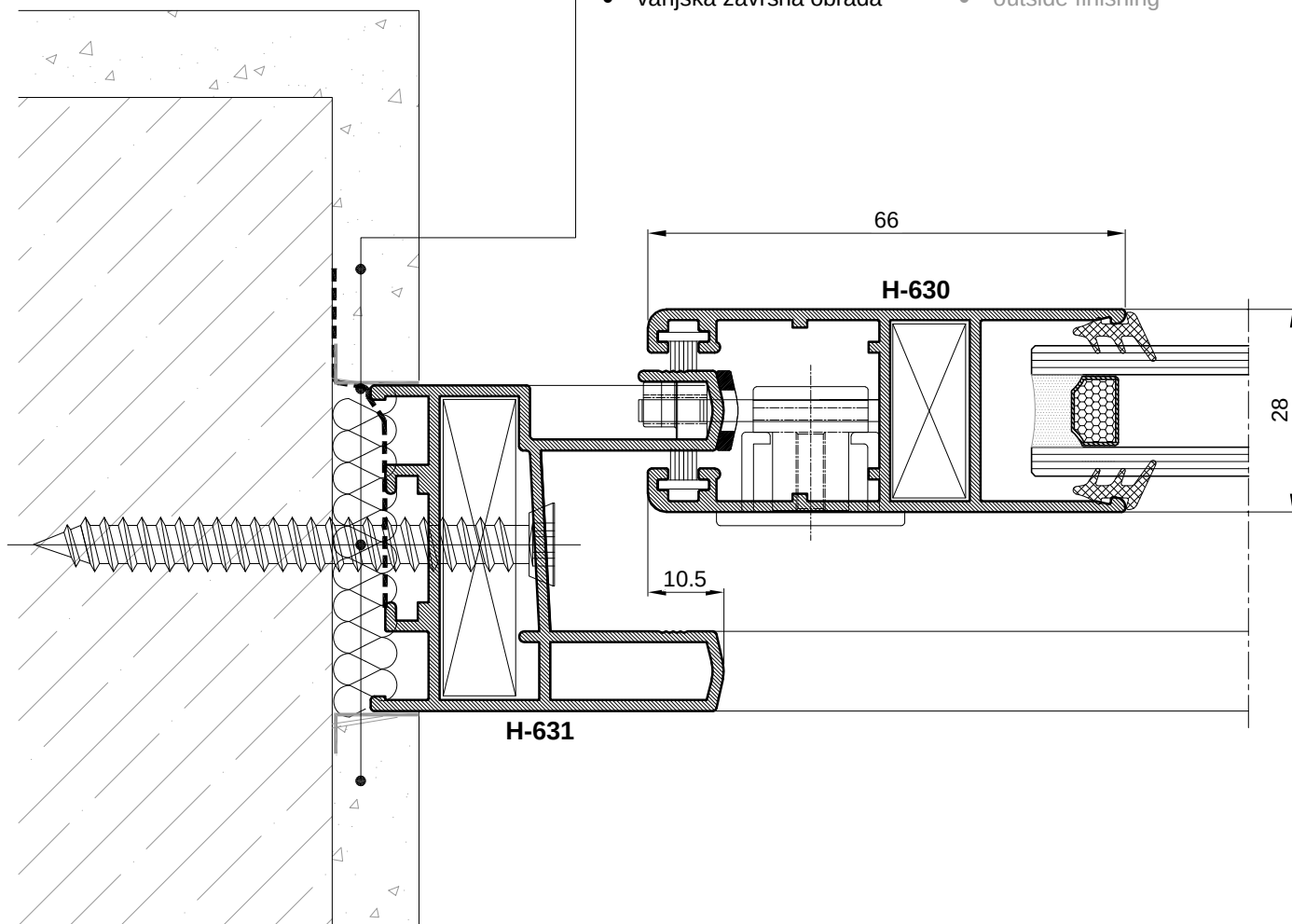




DETALJ SPOJA PREMA ZIDU

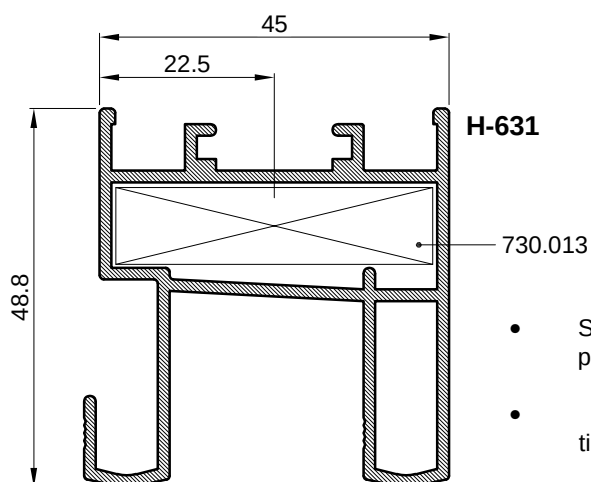
DETAIL CONNECTION TOWARDS WALL

- unutarnja završna obrada
- turbovijak za ugradnju 7.5x70
- hidroizolacija
- vanjska završna obrada
- inside finishing
- concrete screw 7.5x70
- hydro insulation
- outside finishing



Obrada i montaža

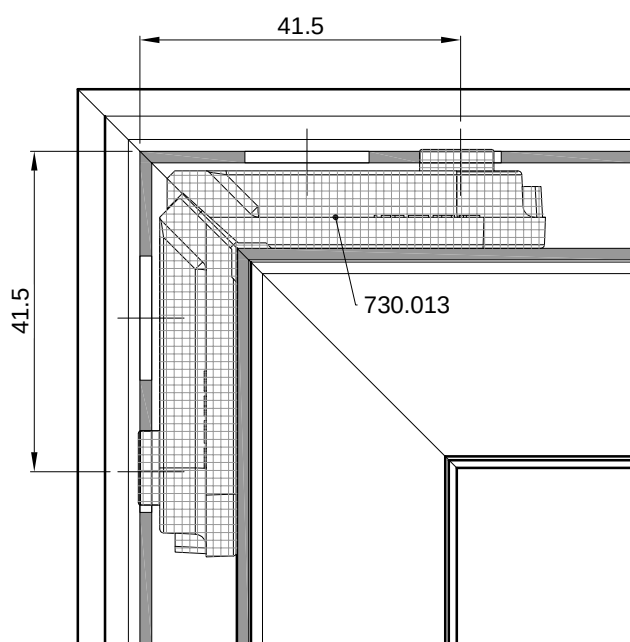
Processing and montage



Obrada profila H-631 za kutnik 730.013

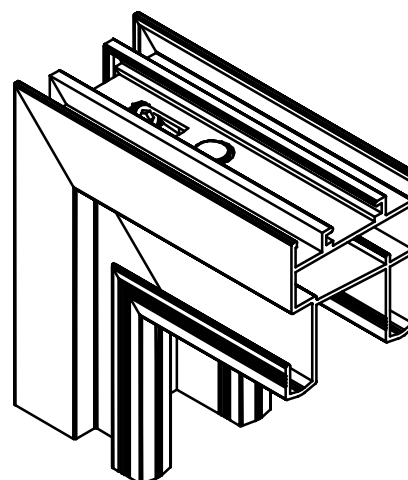
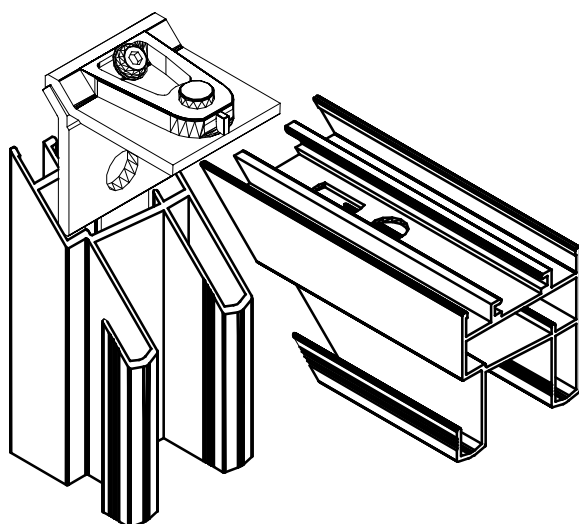
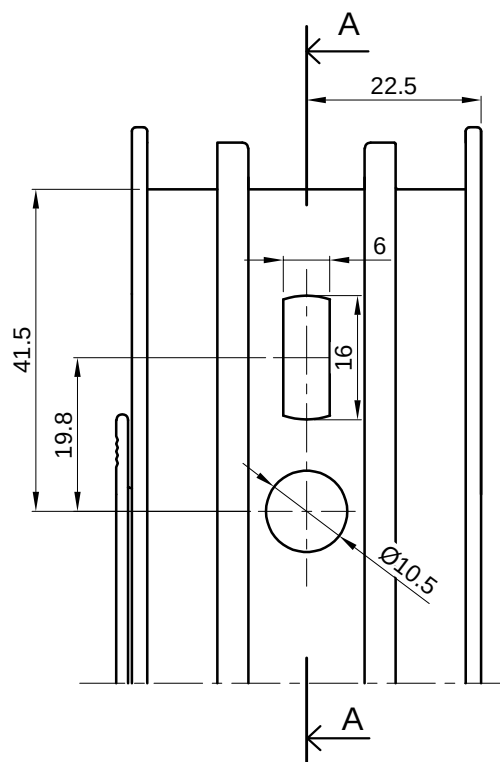
Processing profile H-631 for corner bracket 730.013

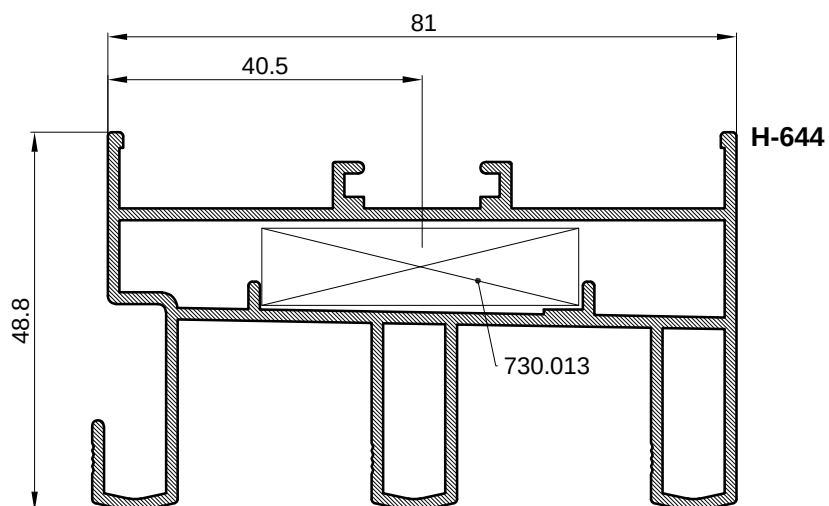
- Spajanje kutnikom 730.013 s predobradom štanjanja
- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Connection with corner bracket 730.013 with punching preprocessing
- Processing on pneumatic punching machine type Feal br.2-art.210.002



PRESJEK A-A

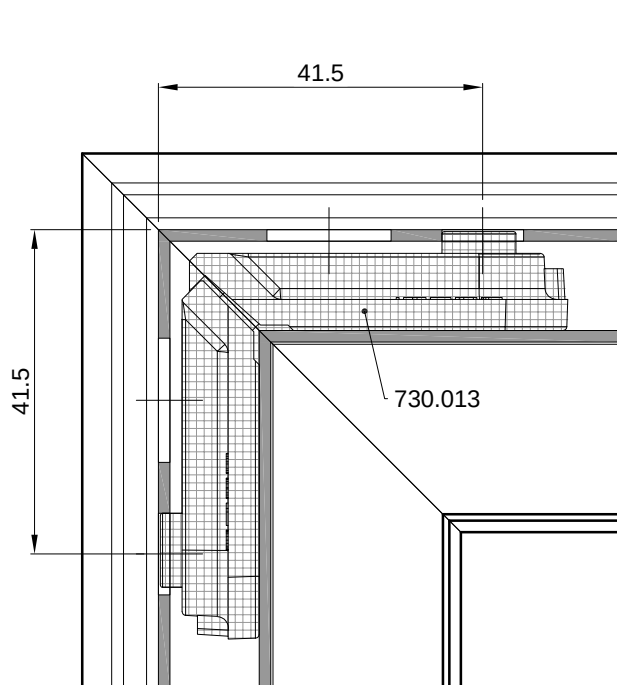
CROSS SECTION A-A



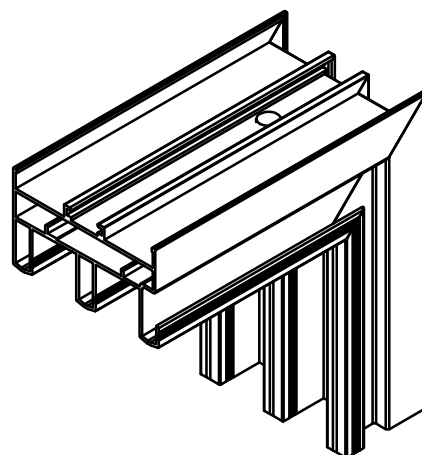
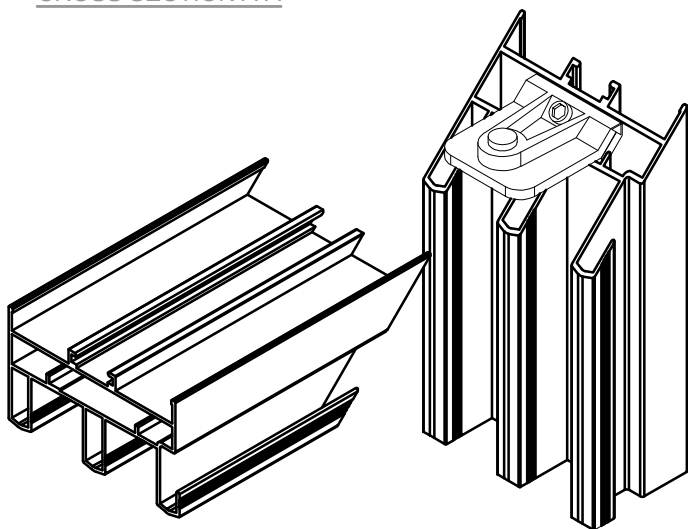
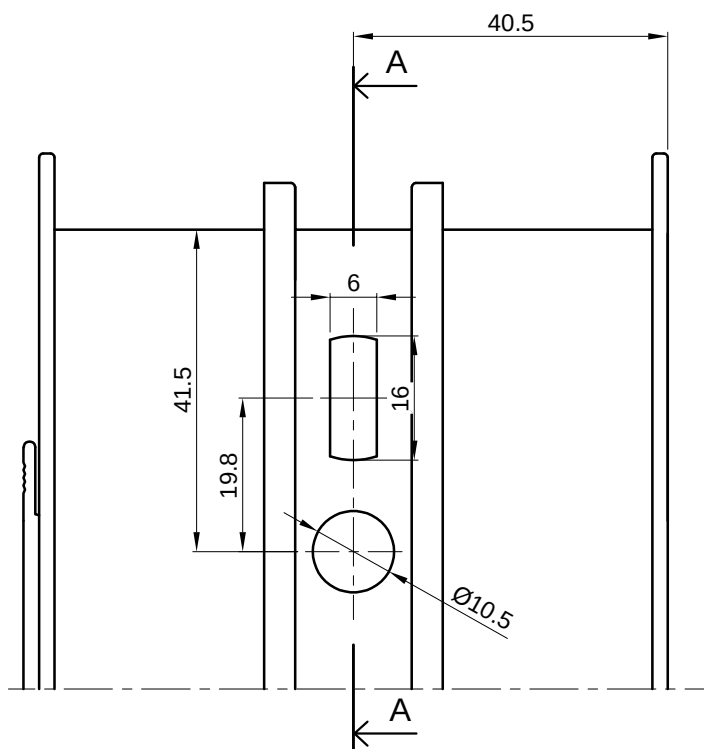


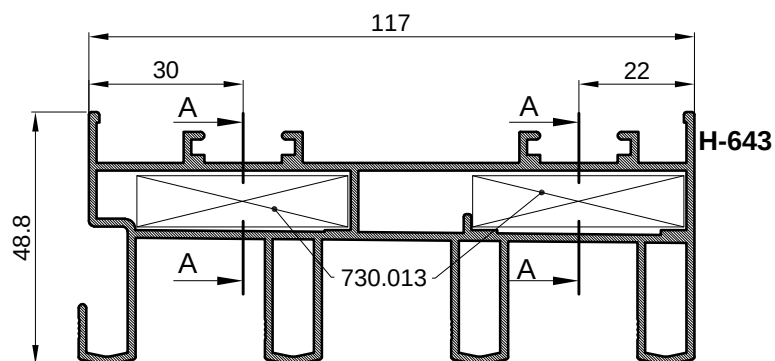
- Obrada profila H-644 za kutnik 730.013
- Processing profile H-644 for corner bracket 730.013

- Spajanje kutnikom 730.013 s predobradom štancanja
- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Connection with corner bracket 730.013 with punching preprocessing
- Processing on pneumatic punching machine type Feal br.2-art.210.002



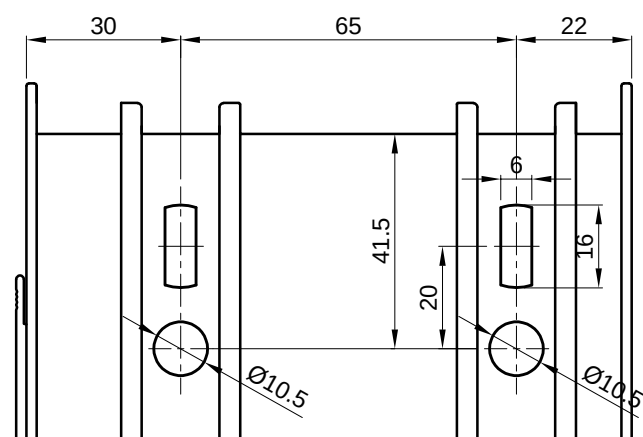
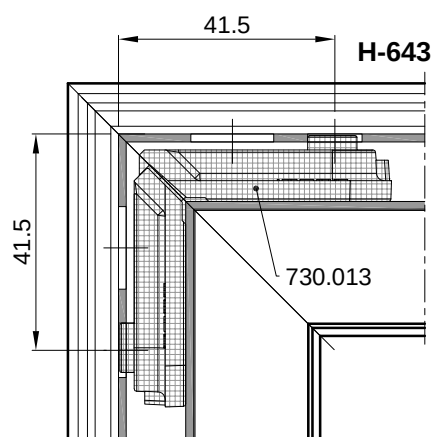
PRESJEK A-A
CROSS SECTION A-A



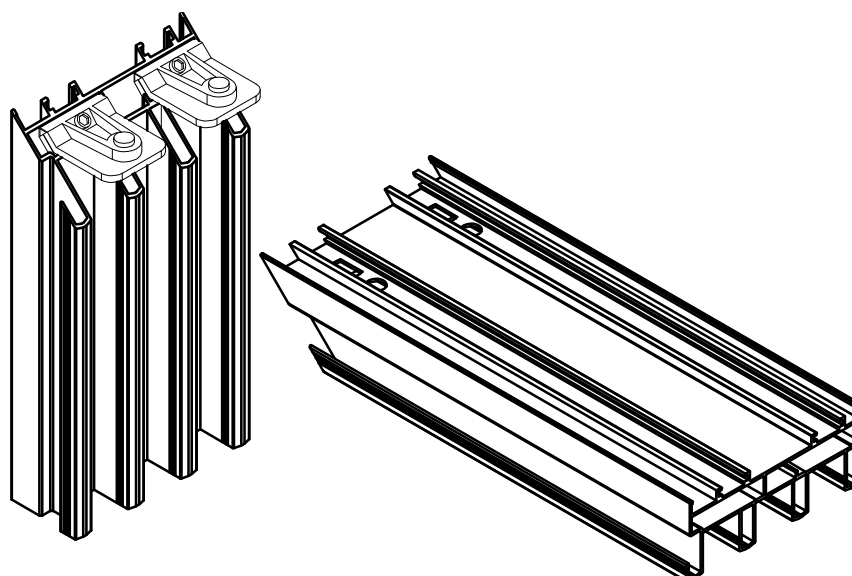


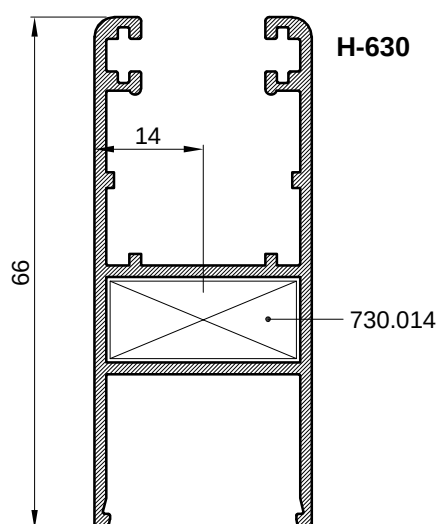
- Obrada profila H-643 za kutnik 730.013
- Processing profile H-643 for corner bracket 730.013

- Spajanje kutnikom 730.013 s predobradom štancanja
- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Connection with corner bracket 730.013 with punching preprocessing
- Processing on pneumatic punching machine type Feal br.2-art.210.002



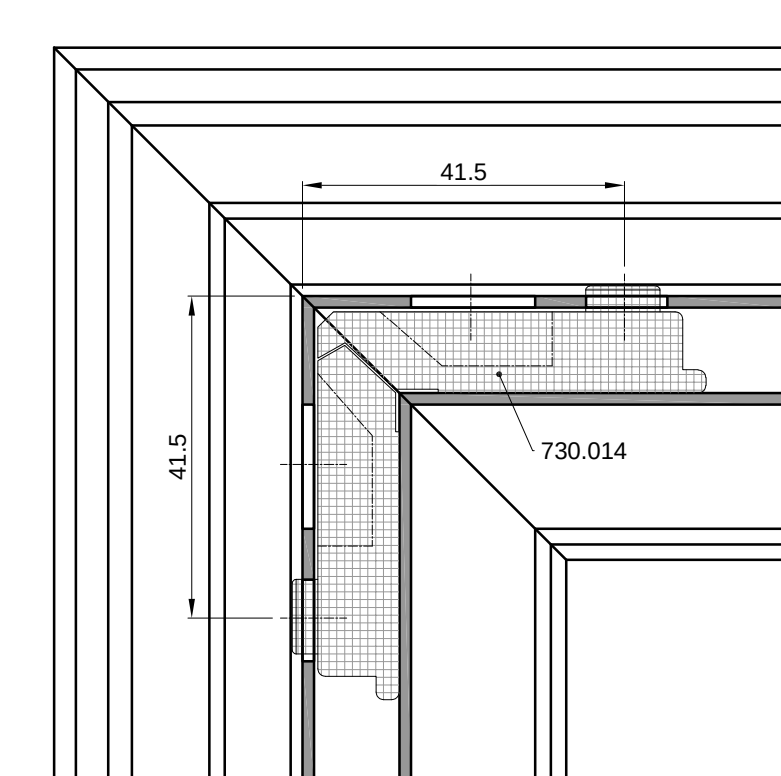
PRESJEK A-A
CROSS SECTION A-A



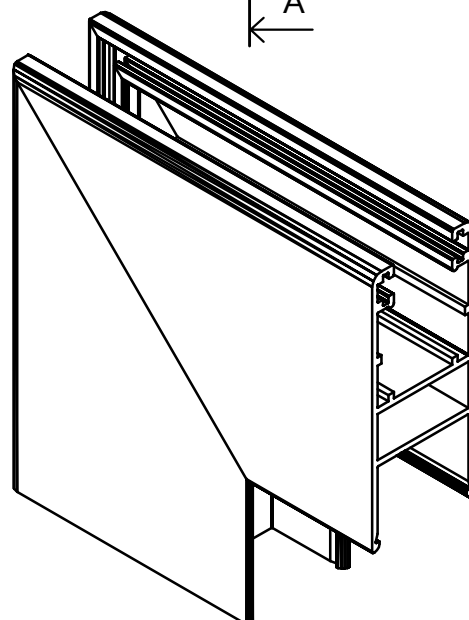
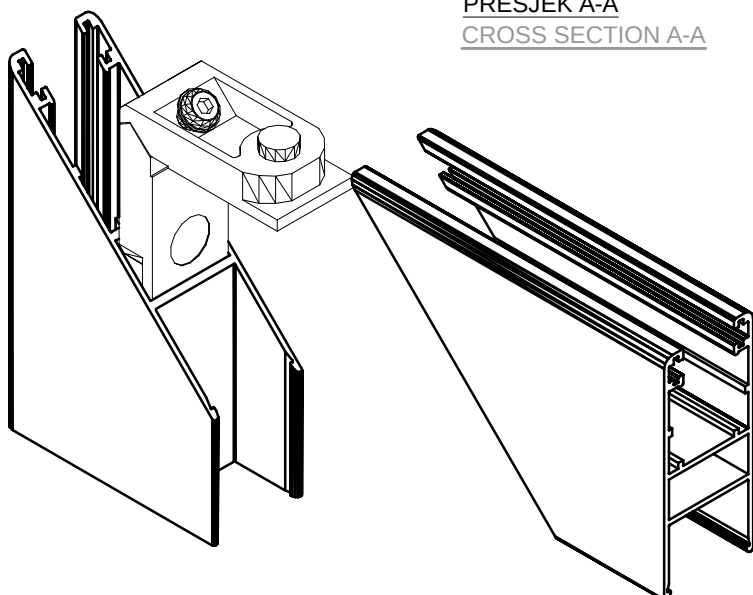
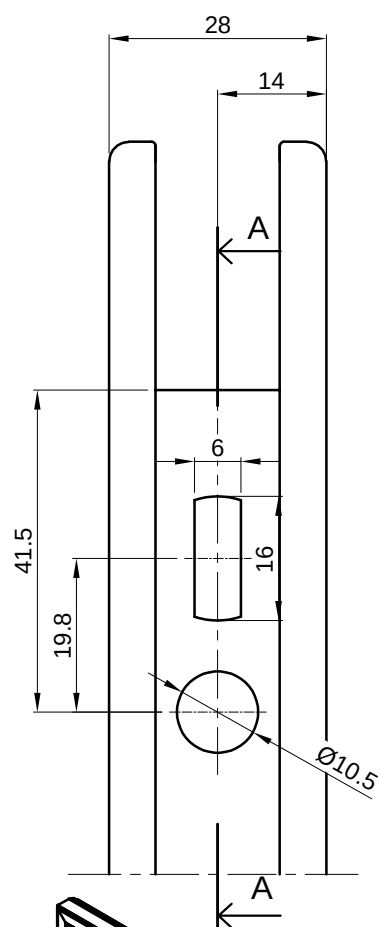


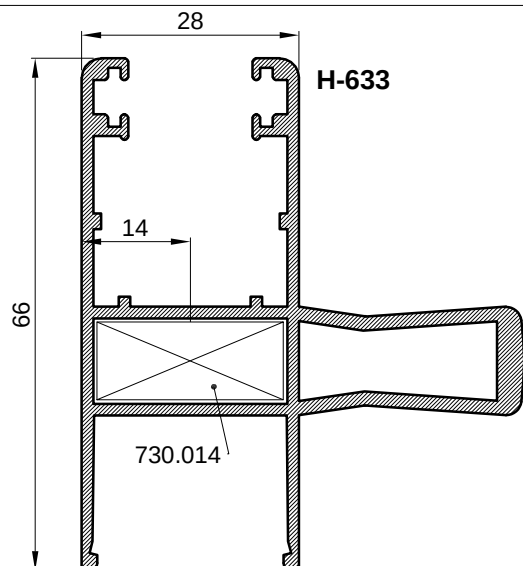
-Obrada profila H-630 za kutnik 730.014
-Processing profile H-630 for corner bracket 730.014

- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Processing on pneumatic punching machine type Feal br.2-art.210.002



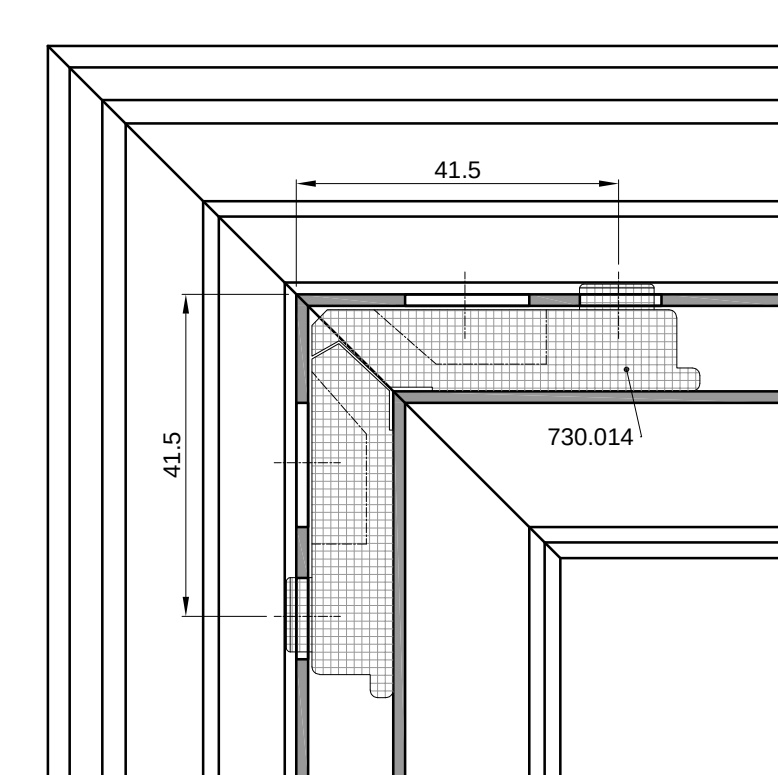
PRESJEK A-A
CROSS SECTION A-A



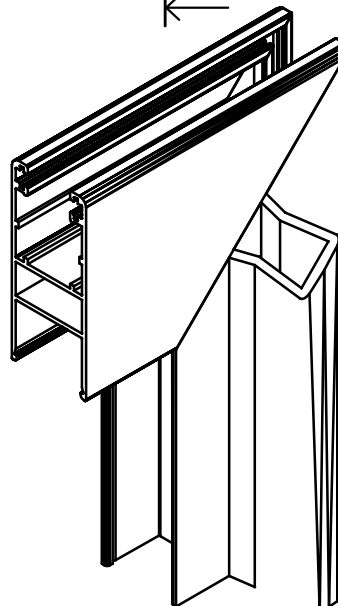
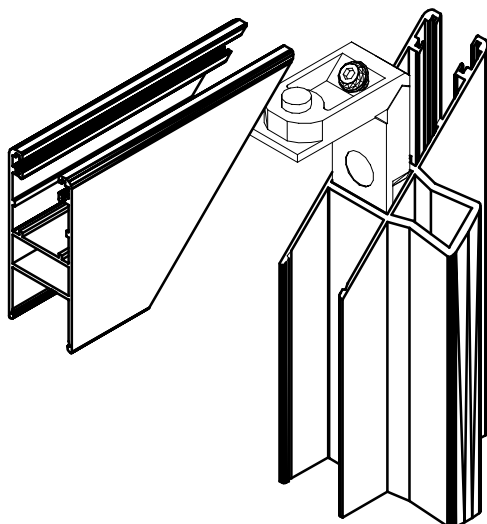
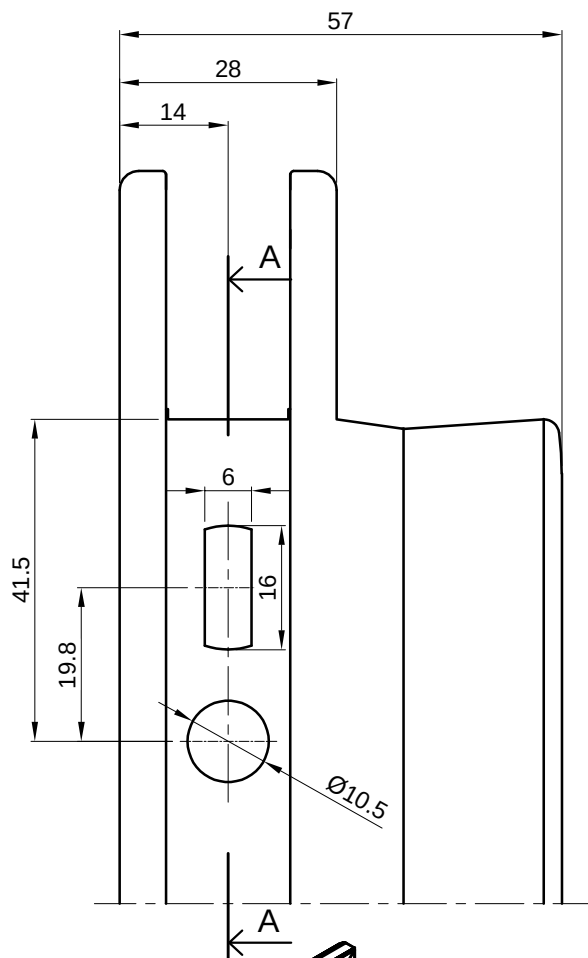


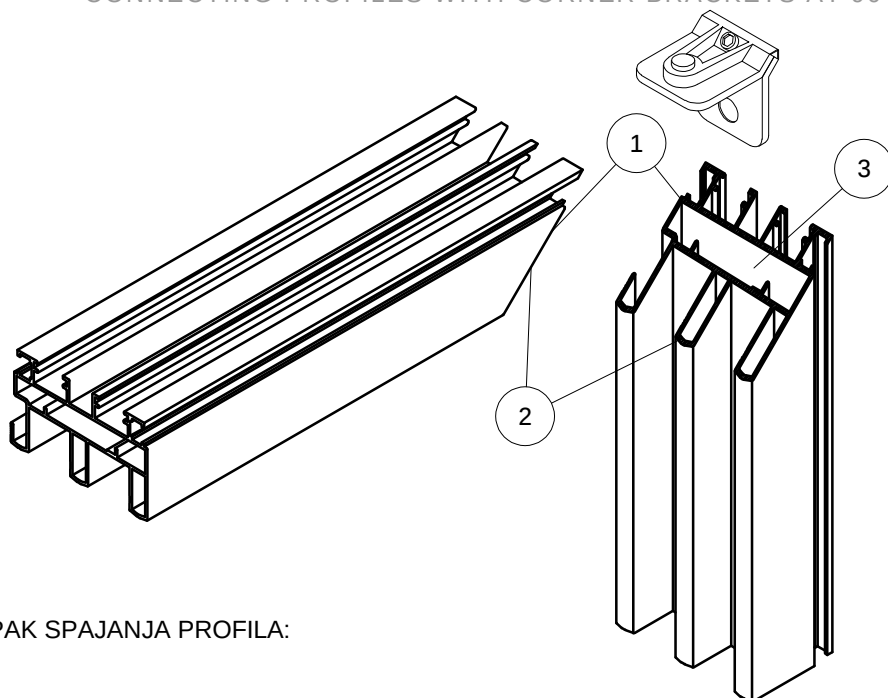
- Obrada profila H-633 za kutnik 730.014
- Processing profile H-633 for corner bracket 730.014

- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Processing on pneumatic punching machine type Feal br.2-art.210.002



PRESJEK A-A
CROSS SECTION A-A



SPAJANJE PROFILA KUTNICIMA POD KUTEM OD 90°
CONNECTING PROFILES WITH CORNER BRACKETS AT 90°

POSTUPAK SPAJANJA PROFILA:

1. Površine koje se spajaju-rezove očistiti i odmastiti prikladnim sredstvom
/npr.Sika Remover 208; Wurth-kat.br.:892 130 30/.
2. Premazati površine koje se spajaju ljepilom za metal
/npr. Sika Force 7851; Wurth-kat.br.:892 130 010/.
3. Ljepilo za metal ušpricati u komore za kutnik (po opsegu komore)
4. Profile s kutnicima izravnati i spojiti
5. Dio ljepila koji iscuri između rezova očistiti sredstvom za čišćenje i odmašćivanje
/npr.Sika Remover 208; Wurth-kat.br.:892 130 30/.

NAPOMENA:

Ovaj postupak spajanja profila primjenjiv je za sve Feal-ove kutnike i njima odgovarajuće komore.
Lijepljenjem rezova i kutnika ljepilima za metal osigurava se potrebna zrako- i vodonepropusnosti spoja
kao i dodatna mehanička čvrstoća spoja.

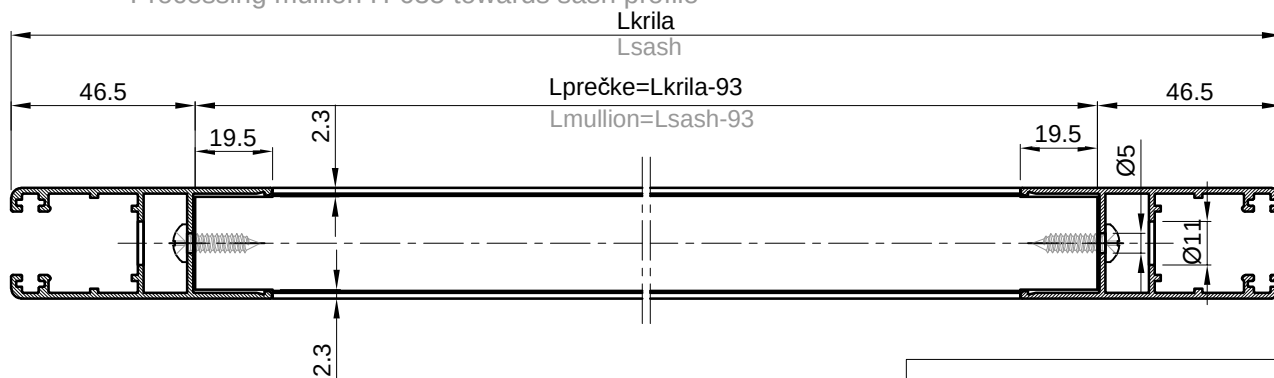
PROFILE CONNECTION PROCEDURE:

1. Surfaces that are connecting - clean and degreased the cut with suitable products
/e.g. Sika Remover 208; Wurth-kat. no.:892 130 30/.
2. Smear surfaces that are connecting with metal glue
/e.g. Sika Force 7851; Wurth-kat.no.:892 130 010/.
3. Spurt metal glue into chambers for the corner bracket (on chamber circumference)
4. Level profiles with corner brackets and connect
5. Leaking glue that comes from the joints remove with cleaning nad degrease product
/e.g. Sika Remover 208; Wurth-kat.no.:892 130 30/.

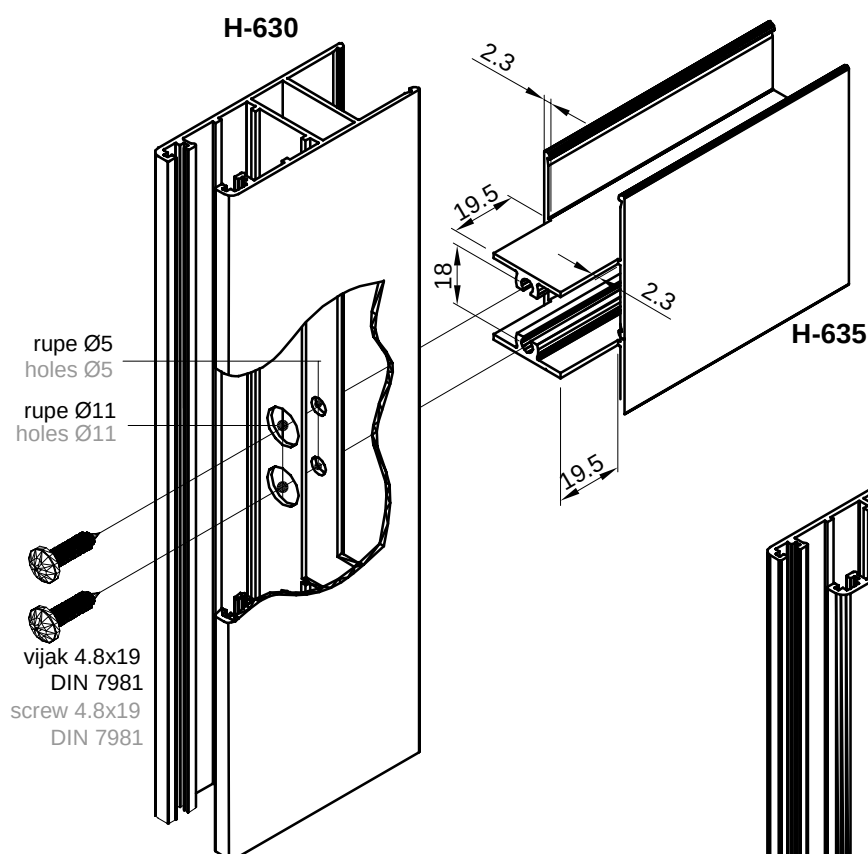
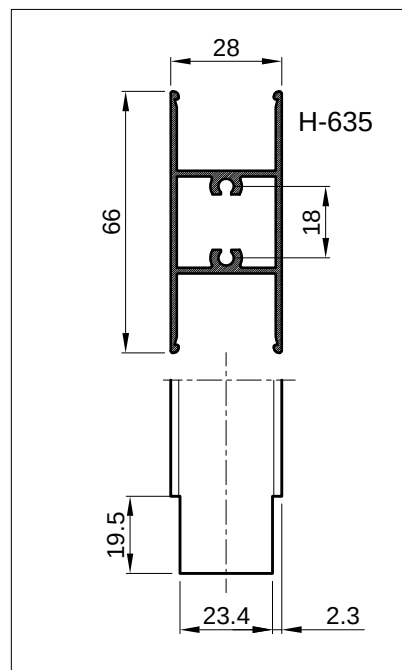
REMARK:

This profile connection procedure is applicable for all Feal corner brackets and their appropriate chambers. Gluing cuts and corners with metal glues provides necessary air and water tightness of the joint nad additional mechanical properties.

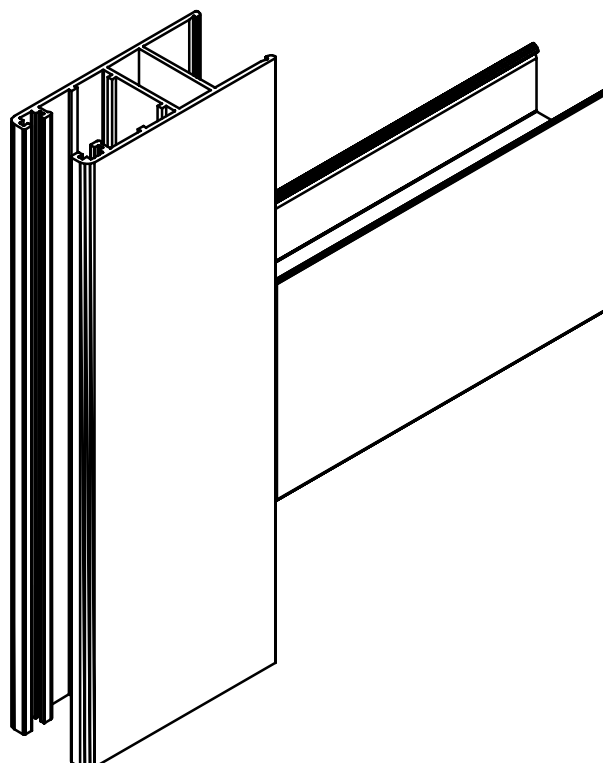
- Obrada prečke H-635 prema profilu krila
- Processing mullion H-635 towards sash profile

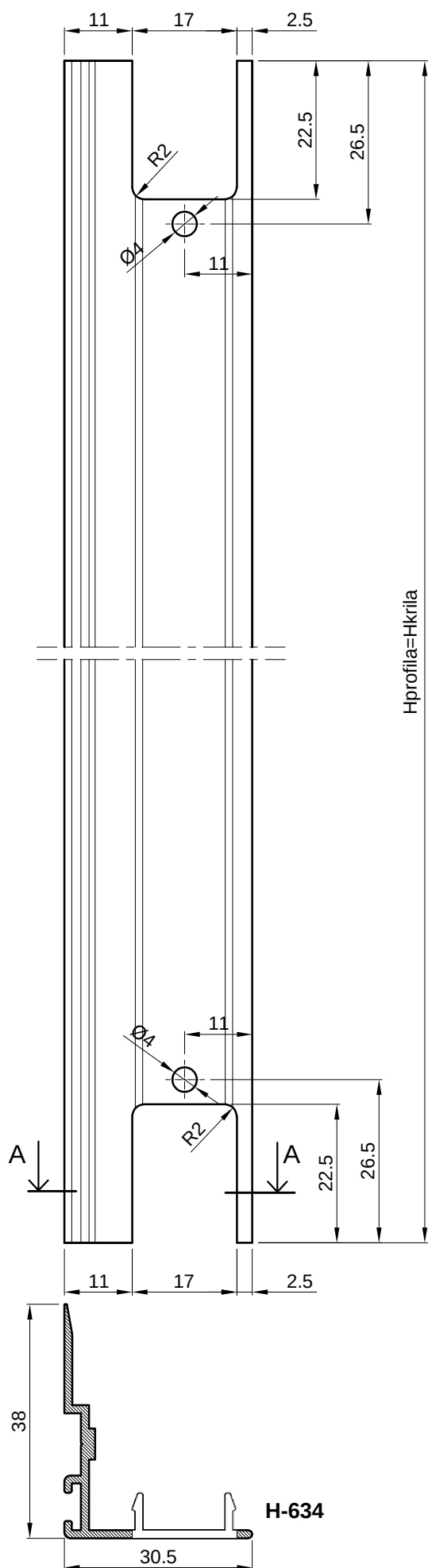


- Obrada profila H-635
čeonim glodalom na
vertikalnoj glodalici
- Processing profile H-635
with shell end mill on
vertical mill machine

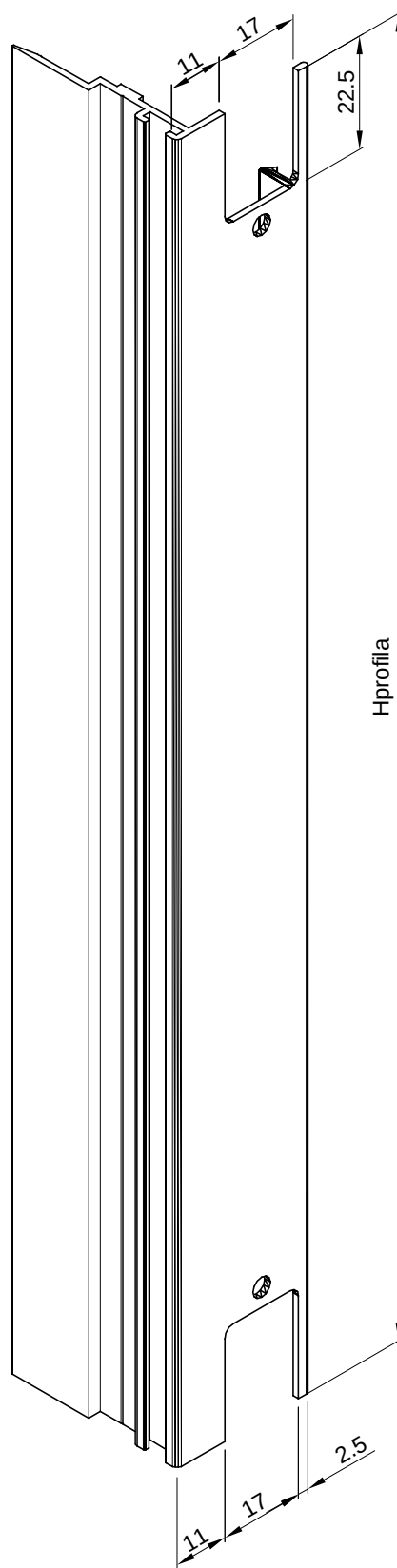


- Obrada profila H-630 na vertikalnoj glodalici /stubnoj bušilici/ vretenastim glodalom /svrdlom/ Ø5 i Ø11
- Processing profile H-630 on vertical mill machine/press drill with end mill/bore Ø5 and Ø11



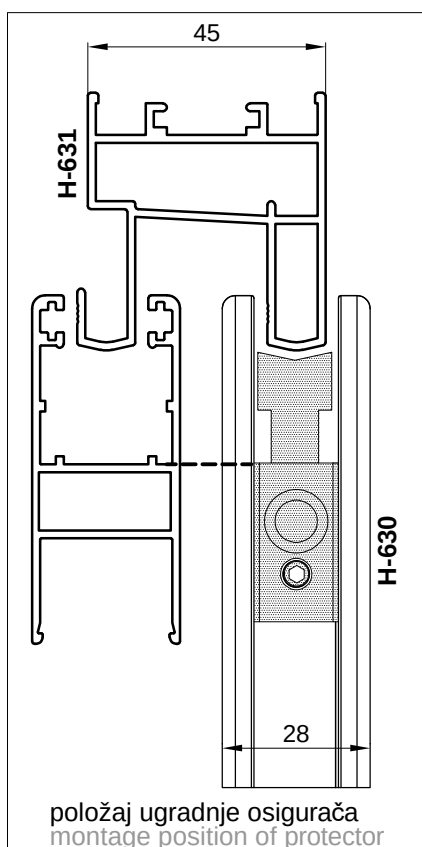
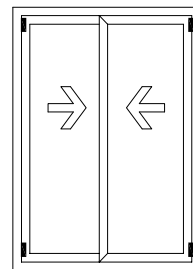


- Obrada profila H-634
- Processing profile H-634



- Obrada na pneumatskoj štanci tipa Feal br.2-art.210.002
- Processing on pneumatic punching machine type Feal br.2-art.210.002

Detalj ugradnje osigurača od vađenja krila 375.069 Montage detail of protector for sash extraction 375.069



Postupak ugradnje:

-Pri izradi okvira krila u profil H-630 se uvuče osigurač od vađenja krila art. 375.069(dva komada, gore i dolje)

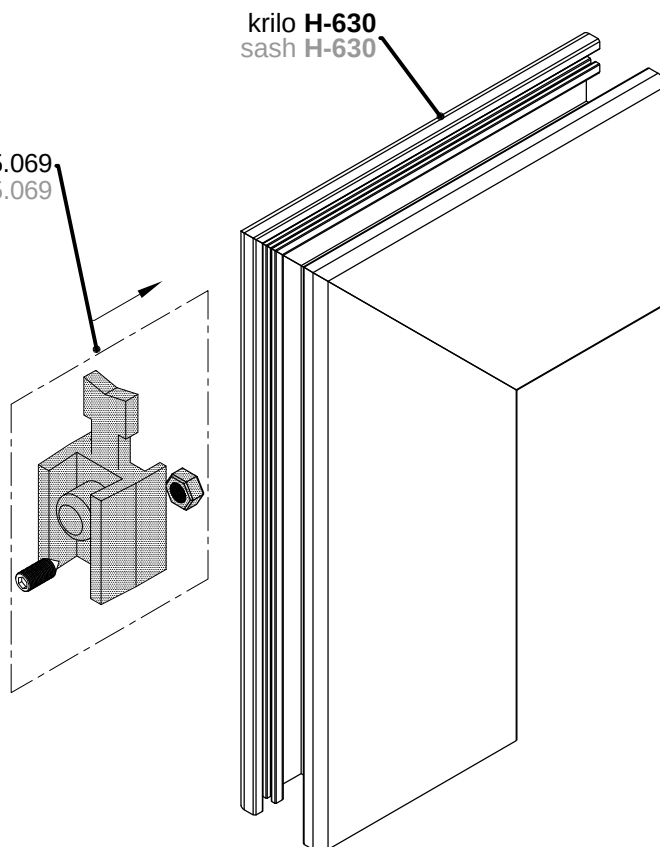
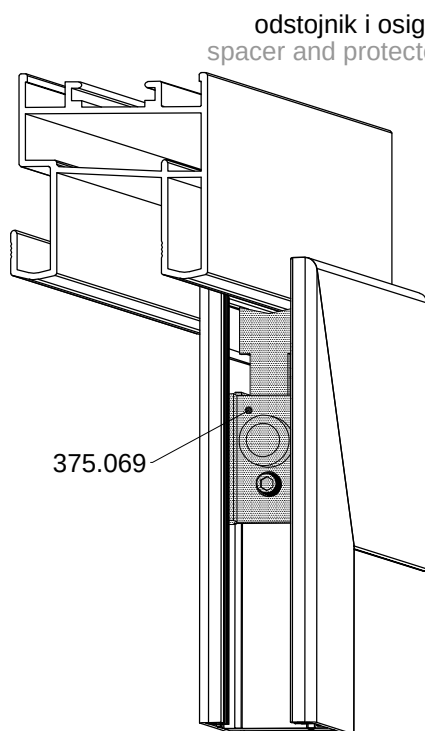
Kad se okvir krila dovede u okvir rama, osigurač od vađenja krila art.375.069 koji smo prethodno već ubacili u okvir krila, se dovodi u radni položaj (vidi crtež) te se imbus vijkom fiksira za krilo.

-Na svako krilo se ugrađuju po dva navedena artikla (gore i dolje).

Procedure of montage:

-While processing sash frame in profile H-630 protector for sash extraction art. nr. 375.069 (two pieces, up and down) is tucked in. When sash frame comes into frame, protector for sash extraction art.375.069, which is already tucked in sash frame, comes into working position (see drawing) and fixed afterwards with allen key to sash.

-On every sash two pieces are mounted (up and down).



Detalji ugradnje maske art. 340.010

Detail of mask montage art. 340.010

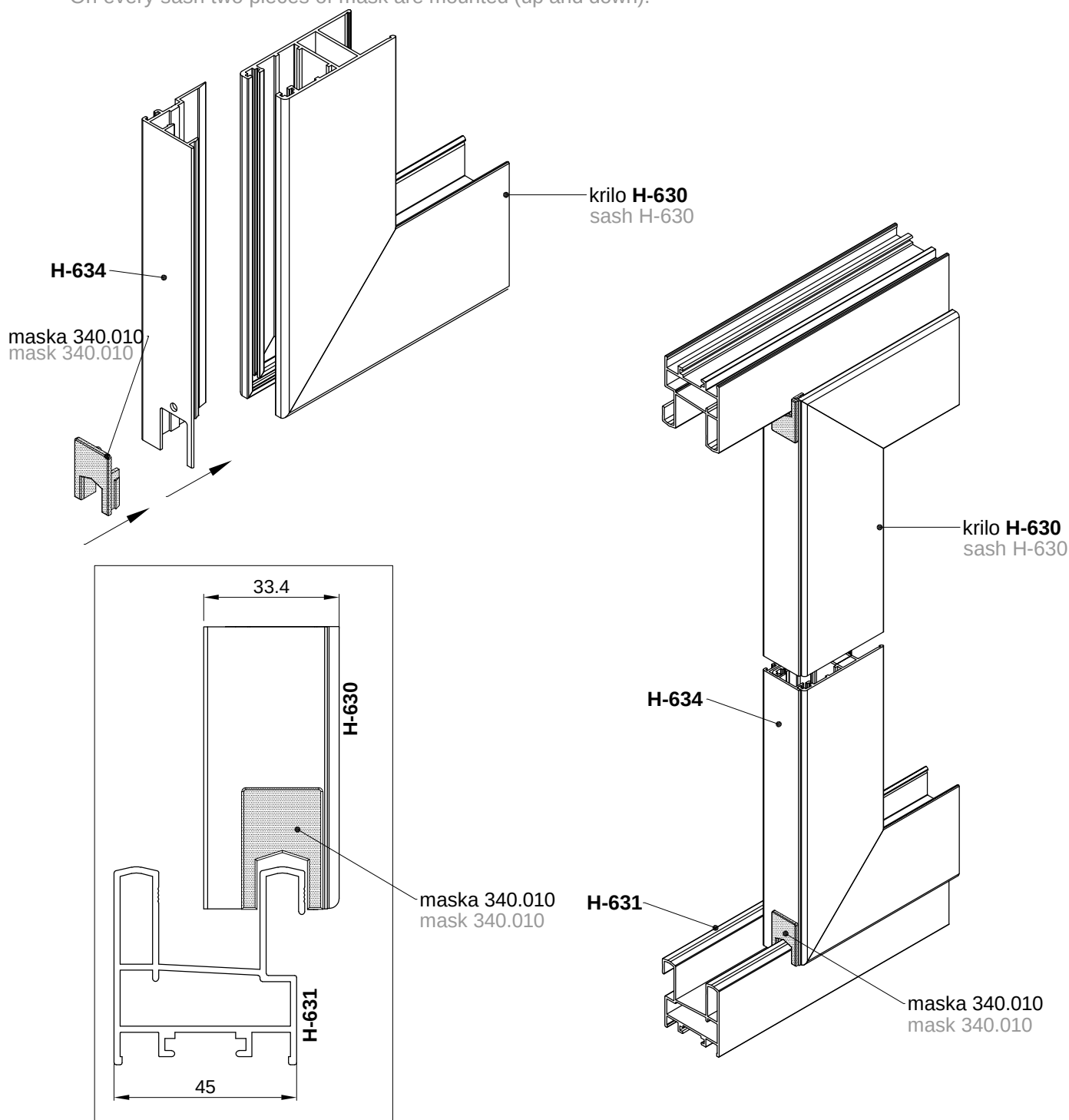
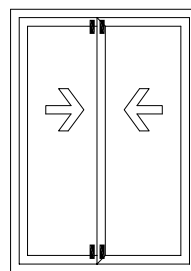
Postupak ugradnje:

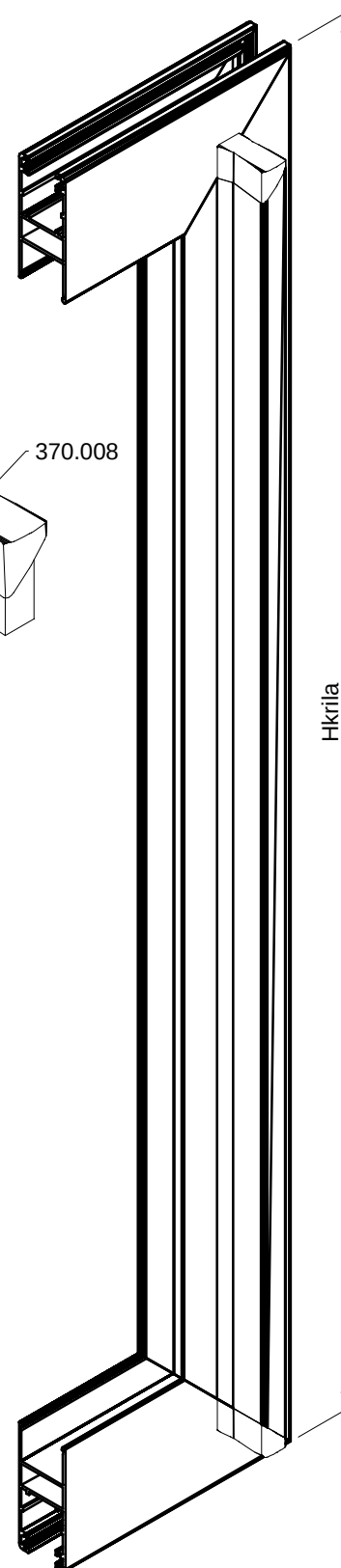
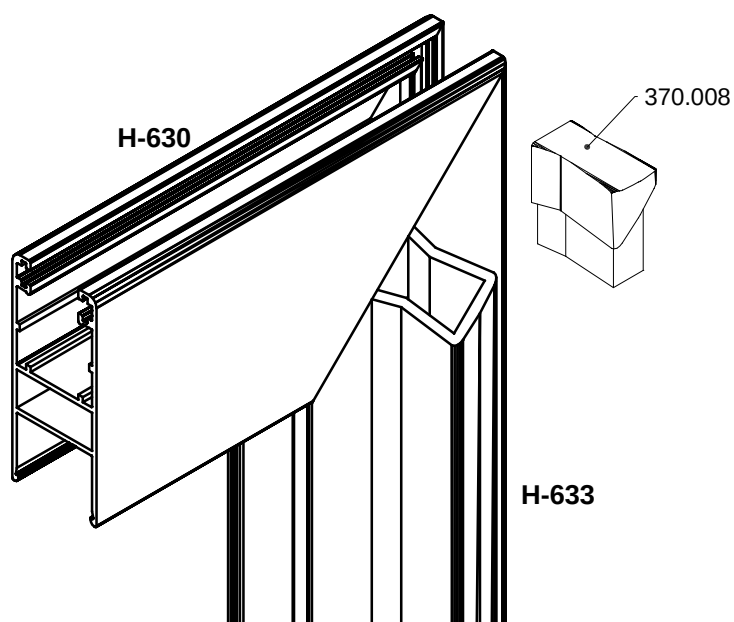
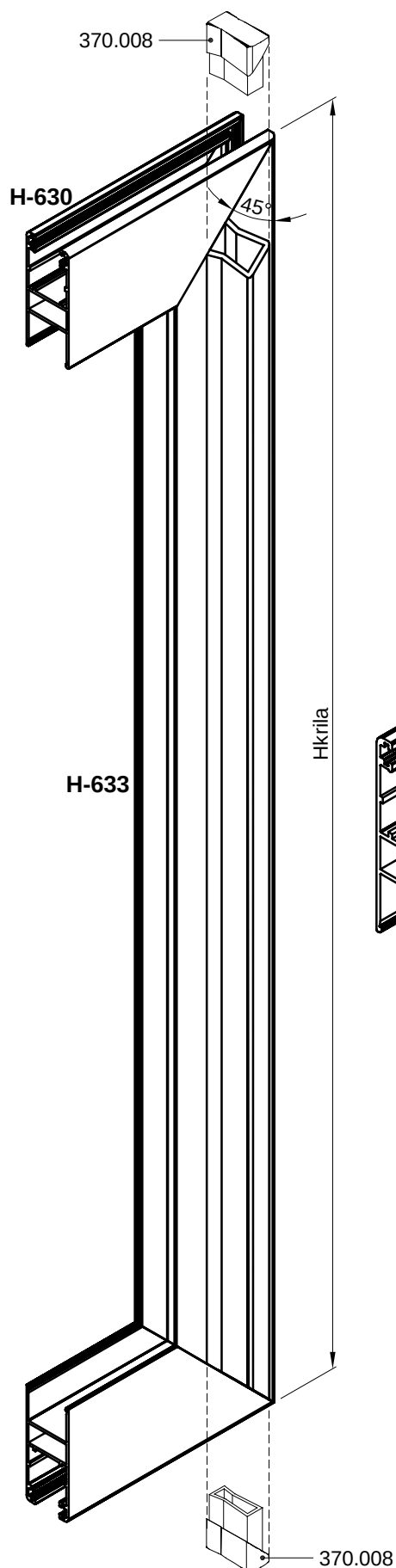
- Nakon ugradnje krila u okvir rama, na krajevima krila (gore i dolje), na prethodno obrađeni profil H-634 se ugrađuje maska (art. 340.010) koja maskira prostor za namještanje kotačića (dolje) i prostor za ugradnju krila (gore).
- Na svako krilo se ugrađuju po dva navedena artikla (gore i dolje).

Procedure of montage:

- After installing sash to the frame, on ends of sash (up and down), on preprocessed profile H-634 is placed mask (art. 340.010) which hides the place for positioning bogies (down), and place for positioning sash (up).

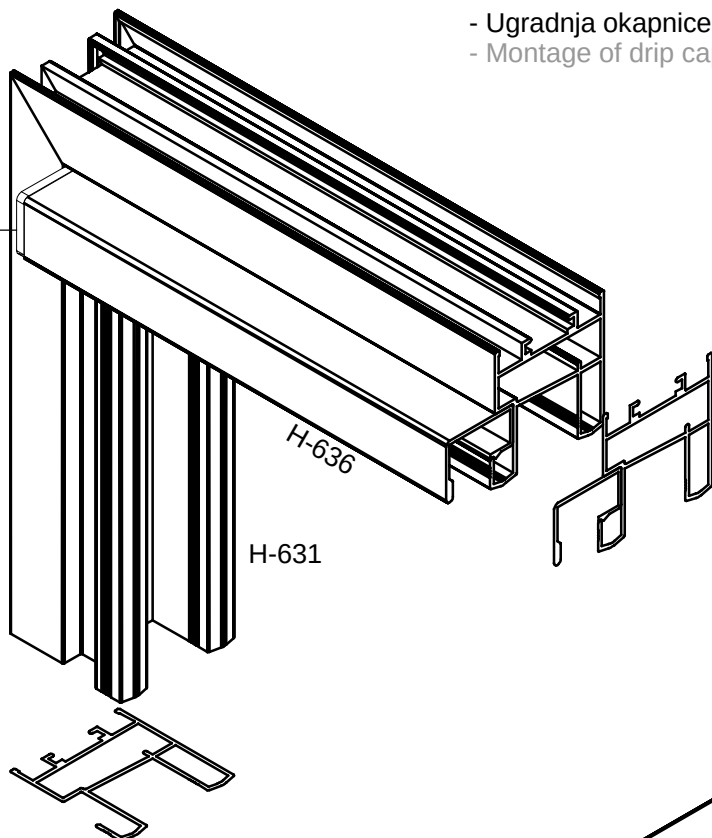
- On every sash two pieces of mask are mounted (up and down).



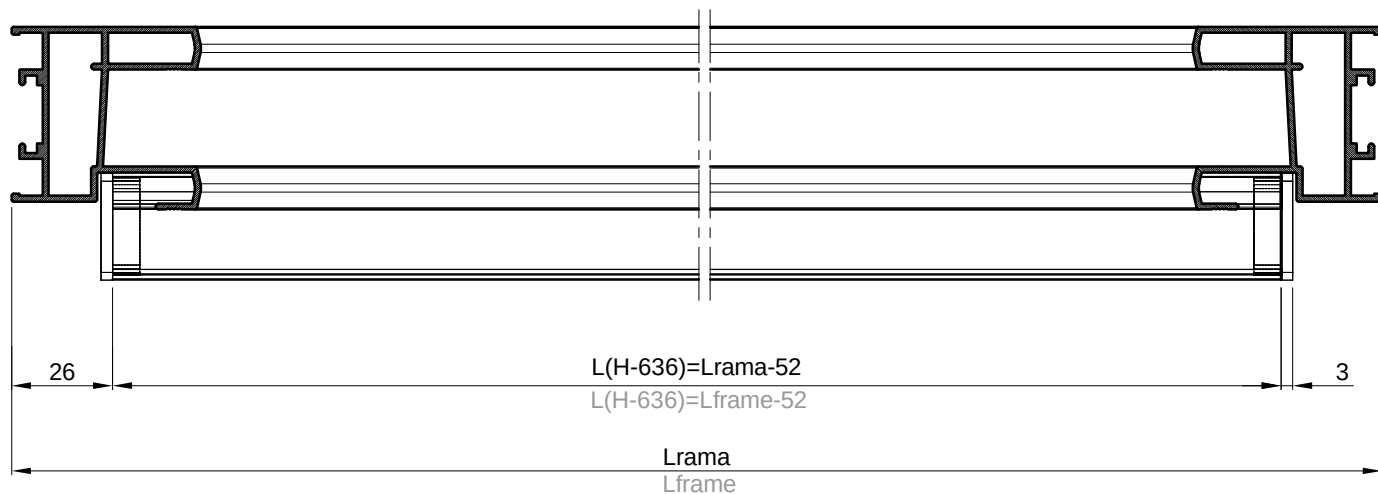
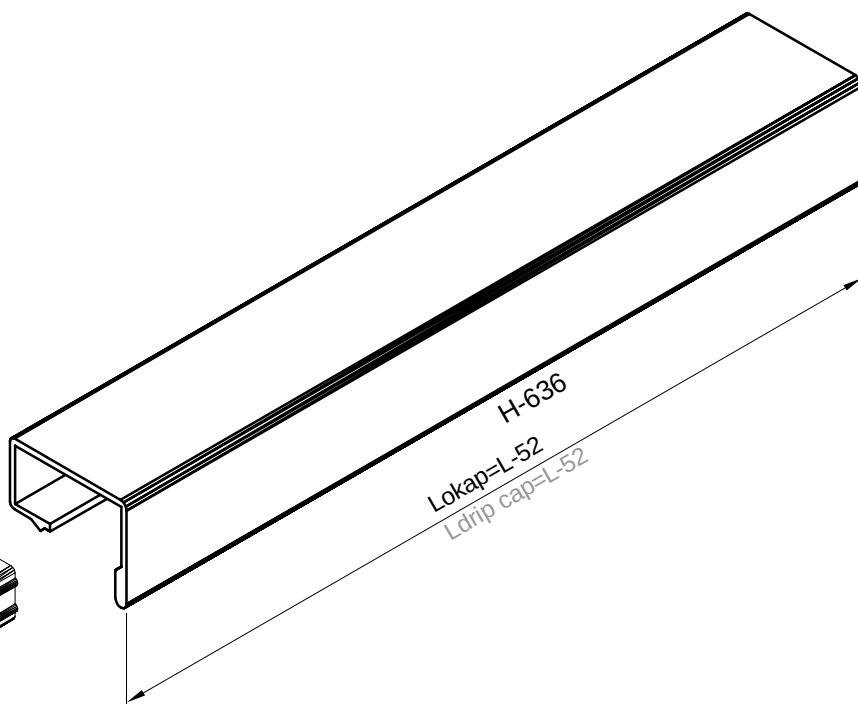
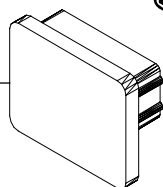


- Ugradnja okapnice H-636 s čepom 373.065
- Montage of drip cap H-636 with cap 373.065

bočni čep
side cap
373.065



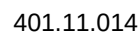
bočni čep 373.065
side cap 373.065



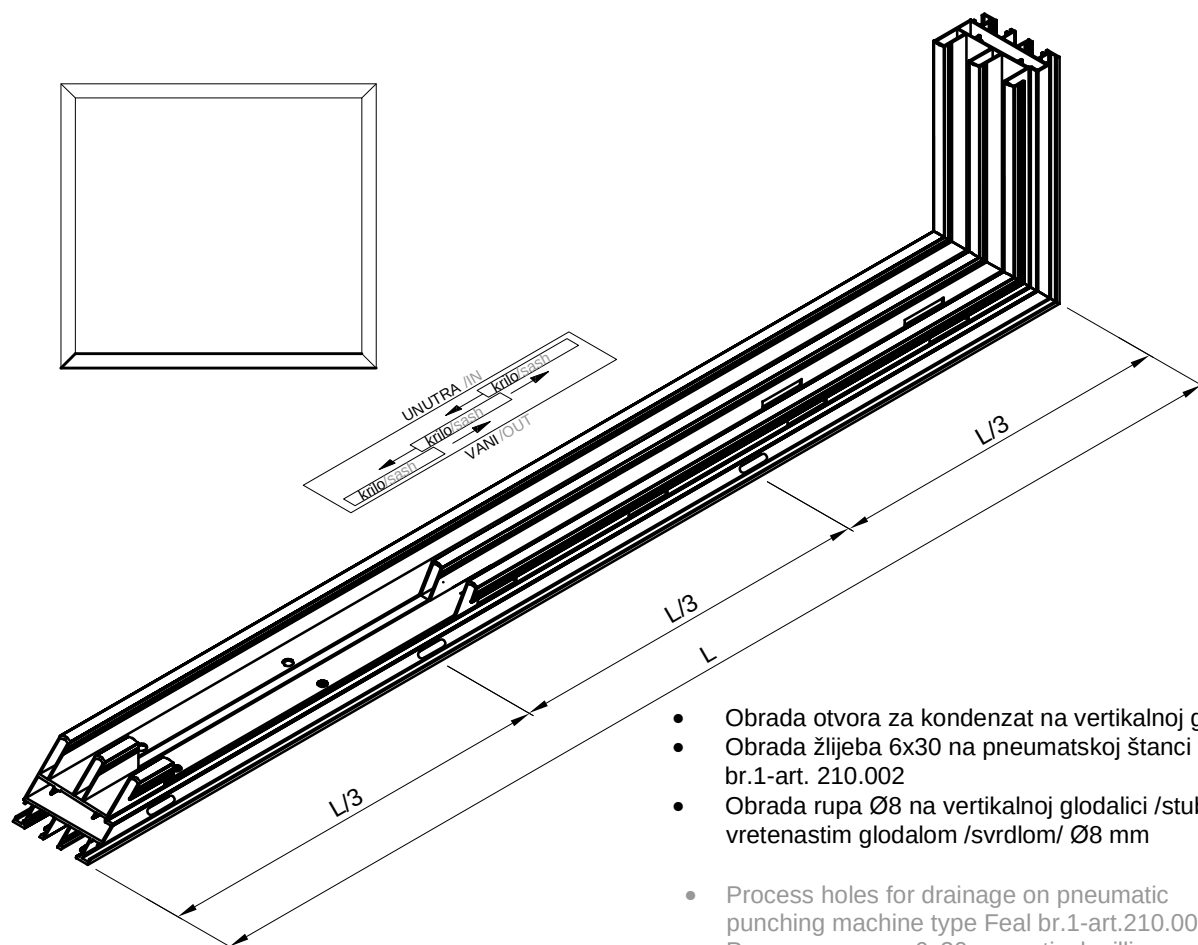
Technical drawing of a window frame profile. The drawing includes a side view of the profile and a cross-sectional view. The side view shows the profile with dimensions $L/2$, L , and $L/2$. The cross-sectional view shows the profile with dimensions $UNUTRA/IN$ and $VANI/OUT$. The profile is labeled with $kriolo sash$ and $VANI/OUT$. The drawing also includes a list of processing requirements:

- Obrada otvora za kondenzat na vertikalnoj glodalici
- Obrada žlijeba 6x30 na pneumatskoj štanci tipa R
- br.1-art. 210.002
- Obrada rupa Ø8 na vertikalnoj glodalici /stubnoj
- vretenastim glodalom /svrdlom/ Ø8 mm
- Process grooves vertical milling machine
- Process holes 6x30 for drainage on pneumatic

- Obrada otvora za kondenzat na vertikalnoj glodalici
 - Obrada žlijeba 6x30 na pneumatskoj štanci tipa Feal br.1-art. 210.002
 - Obrada rupa Ø8 na vertikalnoj glodalici /stubnoj bušilici/ vretenastim glodalom /svrdlom/ Ø8 mm
-
- Process grooves vertical milling machine
 - Process holes 6x30 for drainage on pneumatic punching machine type Feal br.1-art.210.000
 - Process holes Ø8 on vertical milling machine /press drill/end mill/bore/ Ø8 mm

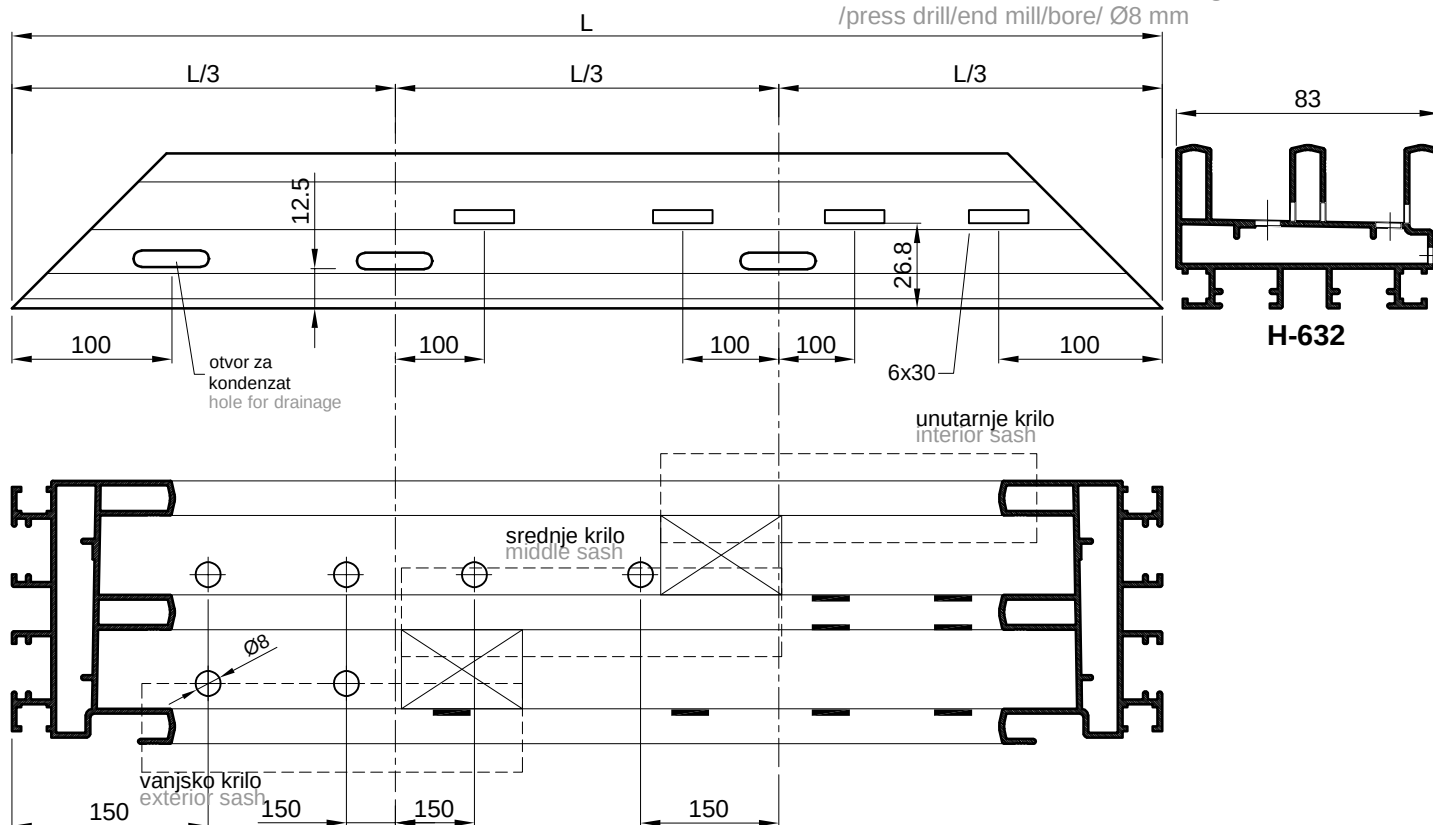


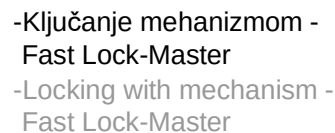
OBRADA DONJEG POJASA RAMA H-632 - ZA ODVOD KAPLJEVINA PROCESSING OF LOWE FRAME ZONE H-632 - FOR DRAINAGE



- Obrada otvora za kondenzat na vertikalnoj glodalici
- Obrada žlijeba 6x30 na pneumatskoj štanci tipa Feal br.1-art. 210.002
- Obrada rupa Ø8 na vertikalnoj glodalici /stubnoj bušilici/ vretenastim glodalom /svrdlom/ Ø8 mm

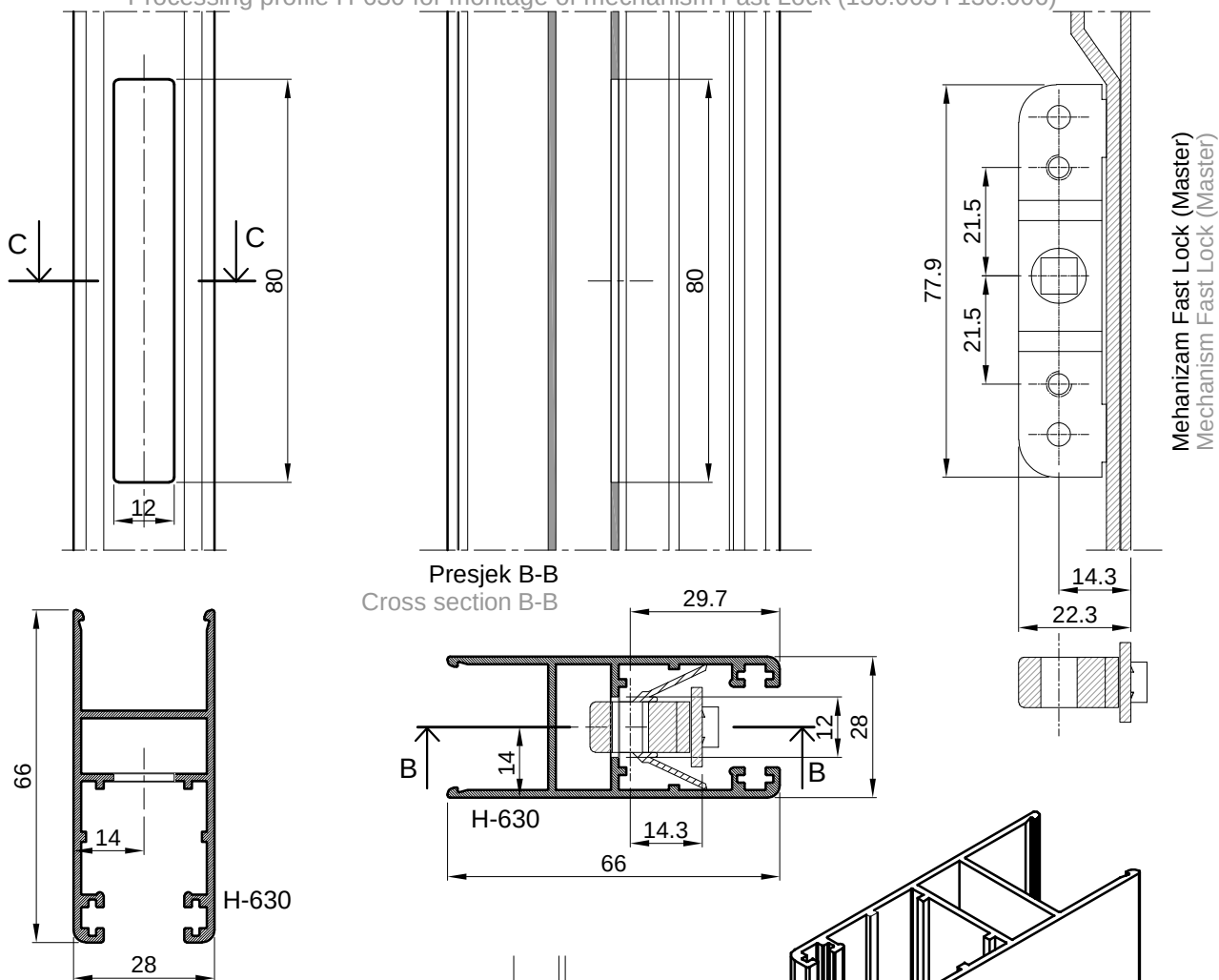
- Process holes for drainage on pneumatic punching machine type Feal br.1-art.210.000
- Process grooves 6x30 on vertical milling machine with end mill for T groove
- Process holes Ø8 on vertical milling machine /press drill/end mill/bore/ Ø8 mm





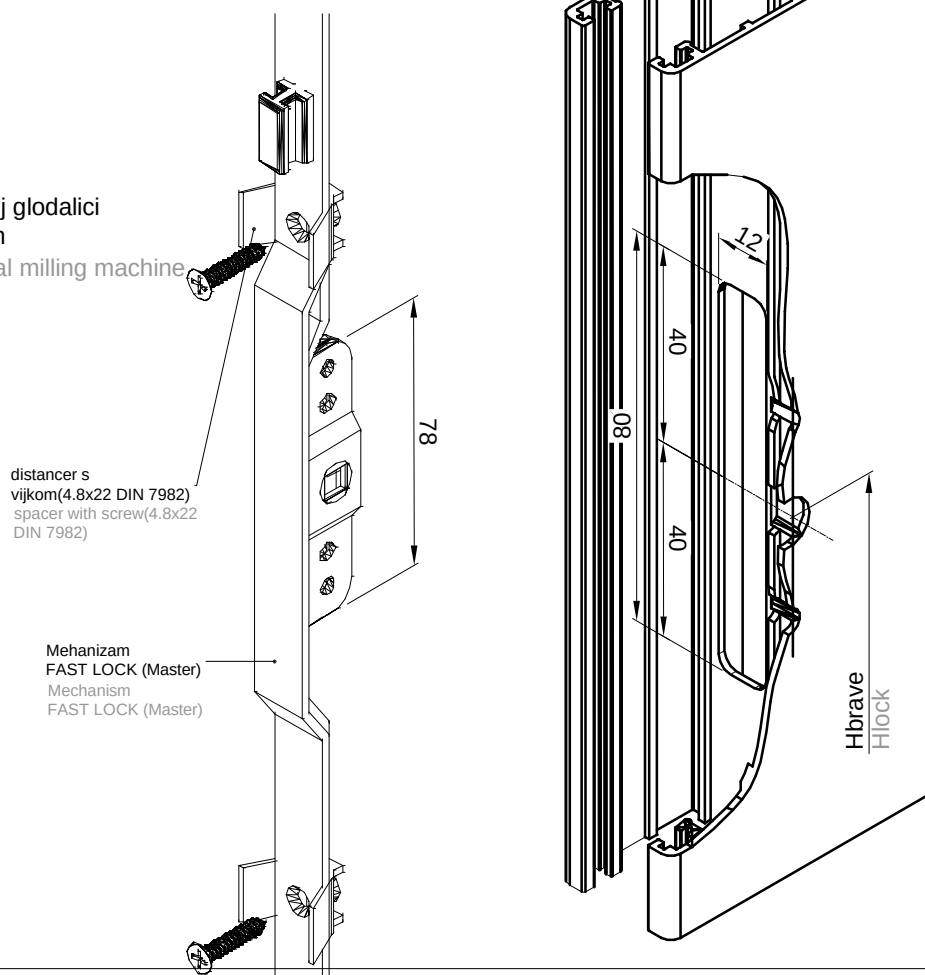
-Obrada profila H-630 za ugradnju mehanizma Fast Lock (130.003 i 130.006)

-Processing profile H-630 for montage of mechanism Fast Lock (130.003 i 130.006)

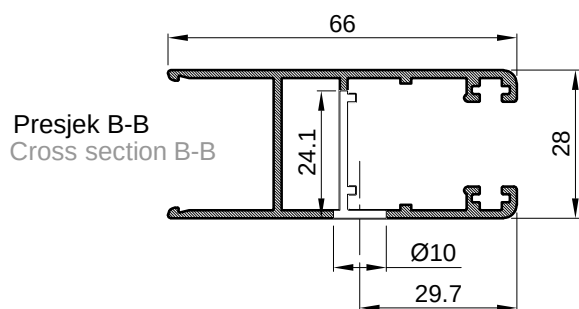
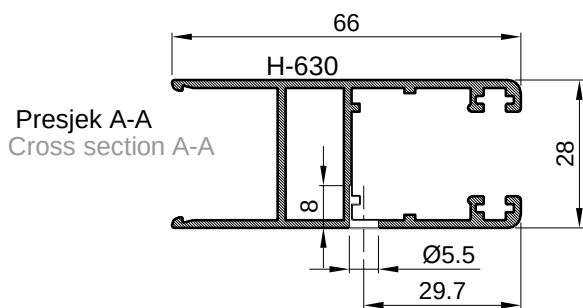
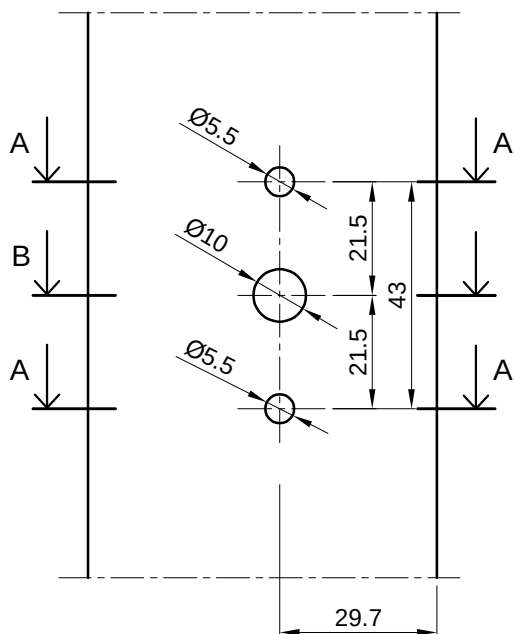


Presjek C-C
Cross section C-C

- Obrada na vertikalnoj glodalici vretenastim glodalom
- Processing on vertical milling machine with end mill

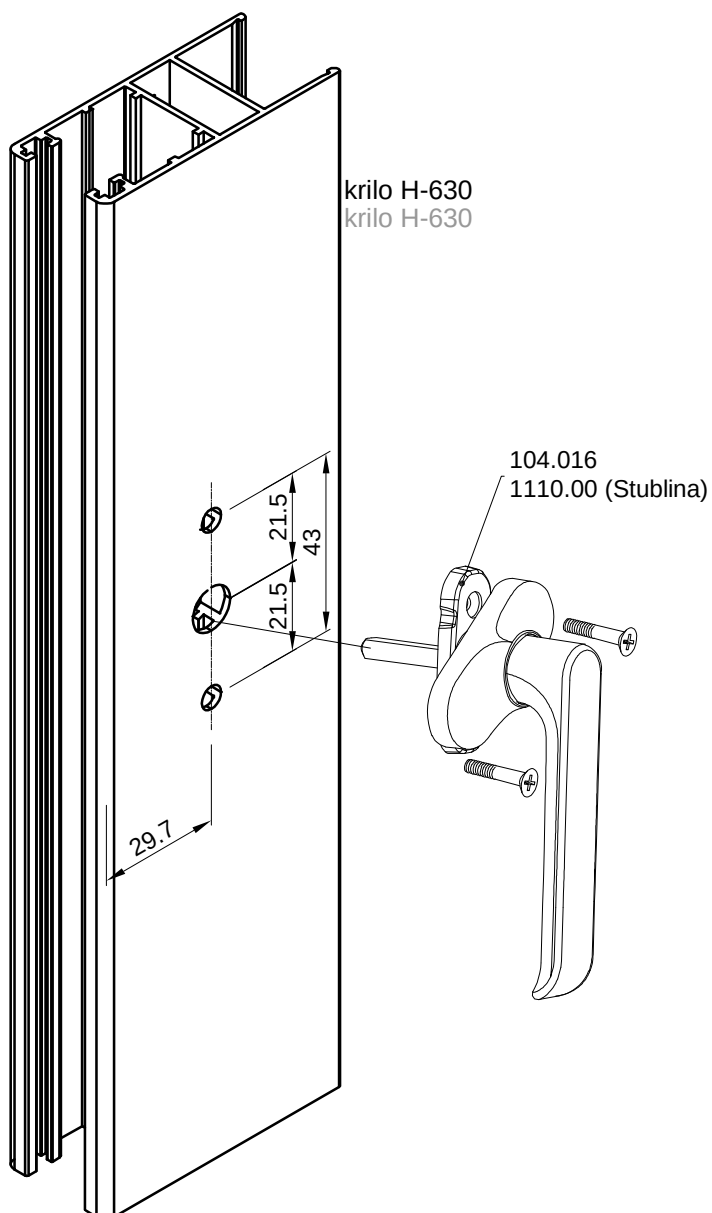


- Obrada krila H-633 za ugradnja ručke 104.016 (art.1110.00-Stublina)
- Processing sash profile H-633 for handle montage 104.016 (art.1110.00-Stublina)



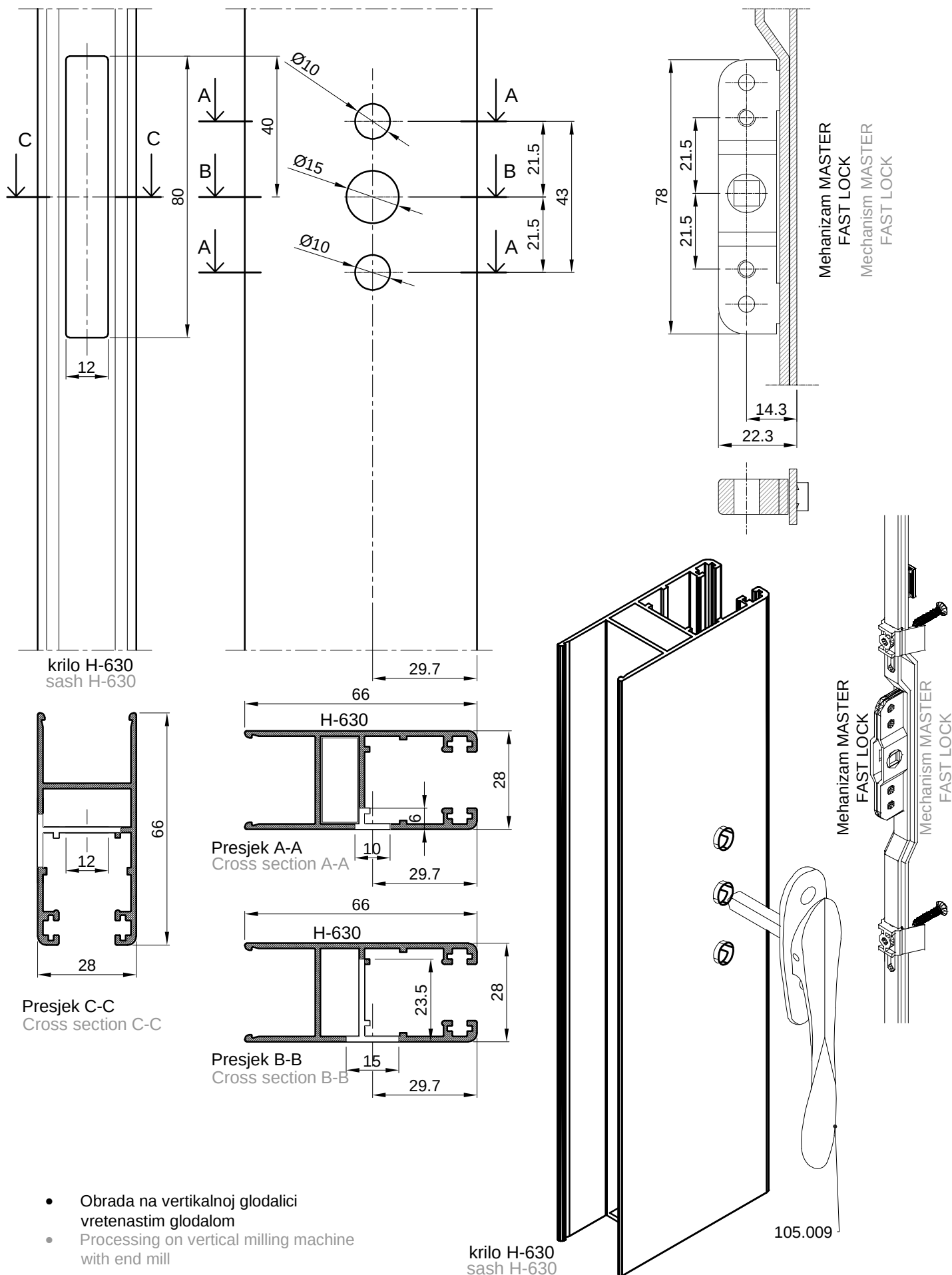
- Obrada na vertikalnoj glodalici vretenastim glodalom
- Processing on vertical milling machine with end mill

- Obrada rupa na vertikalnoj glodalici /stubnoj bušilici/ vretenastim glodalom /svrdlom/
- Processing on vertical milling machine/press drill end mill/bore/



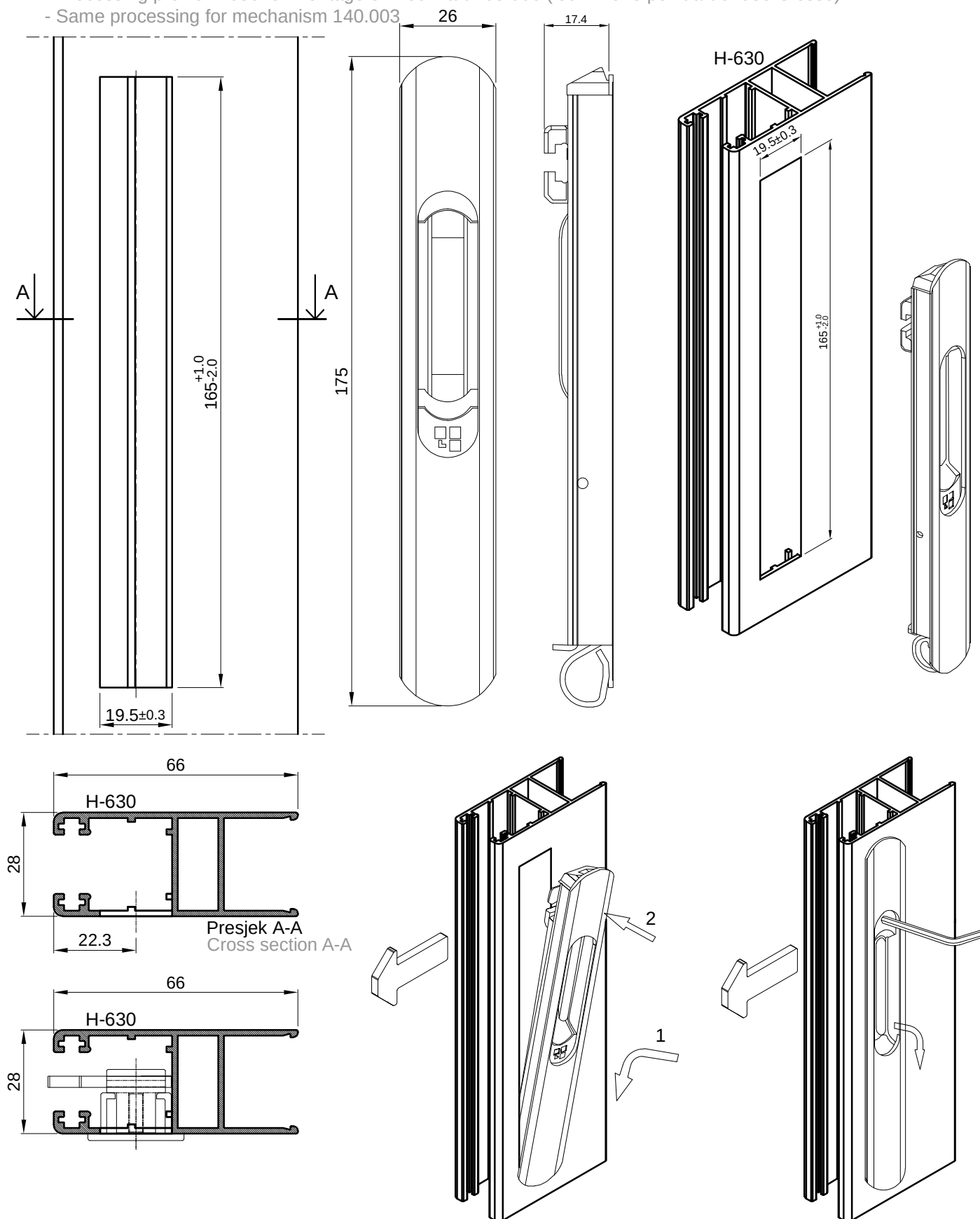
- 1 - bravica za ključanje na ramu
- 2 -pvc distancer + vijak 4.8x22 (DIN 7982)
- 3 -pvc čep + vijak 3.9x13 (DIN 7981)
- 1 - acceptor for frame locking
- 2 -pvc spacer + screw 4.8x22 (DIN 7982)
- 3 -pvc cap + screw 3.9x13 (DIN 7981)

- Obrada krila H-633 za ugradnja mehanizma art.130.003(130.006) i pogonske ručice 105.009 (art. 02429201-Master)
- Processing profile H-633 for montage of mech. art.130.003(130.006) and driving handle 105.009 (art. 02429201-Master)



- Obrada na vertikalnoj glodalici vretenastim glodalom
- Processing on vertical milling machine with end mill

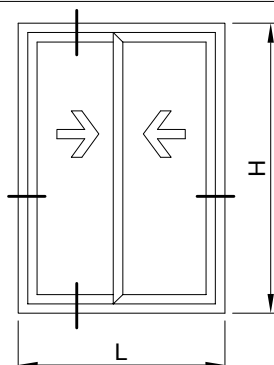
- Obrada krila H-630 za ugradnja mehanizma art.105.006 (bravica za ključanje u jednoj točki art.02988 Giese)
- Ista obrada vrijedi i za mehanizam 140.003
- Processing profile H-630 for montage of mech. art.105.006 (lock in one point art.02988 Giese)
- Same processing for mechanism 140.003



Nakon postavljanja bravice u obrađeni otvor, jezičak se pričvrsti pomoću imbusa prema skici.

After placing the lock in the machined hole, the tab is fastened with an hex key as shown in the sketch

Rezna lista Cutting list



PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-631	vodoravnica okvira frame horizontal profile	2	L	45-45
H-631	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	4	Lkr=L/2-5	45-45
H-630	okomica krila sash vertical profile	4	Hkr=H-76.5	45-45
H-634	završni profil finish profile	2	H-76.5	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

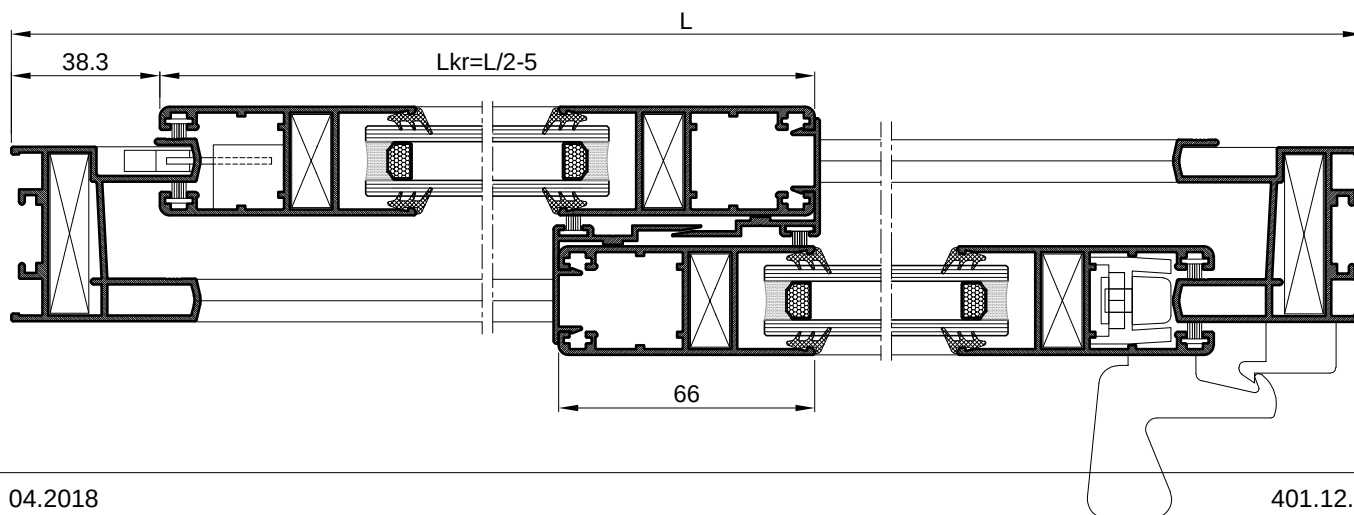
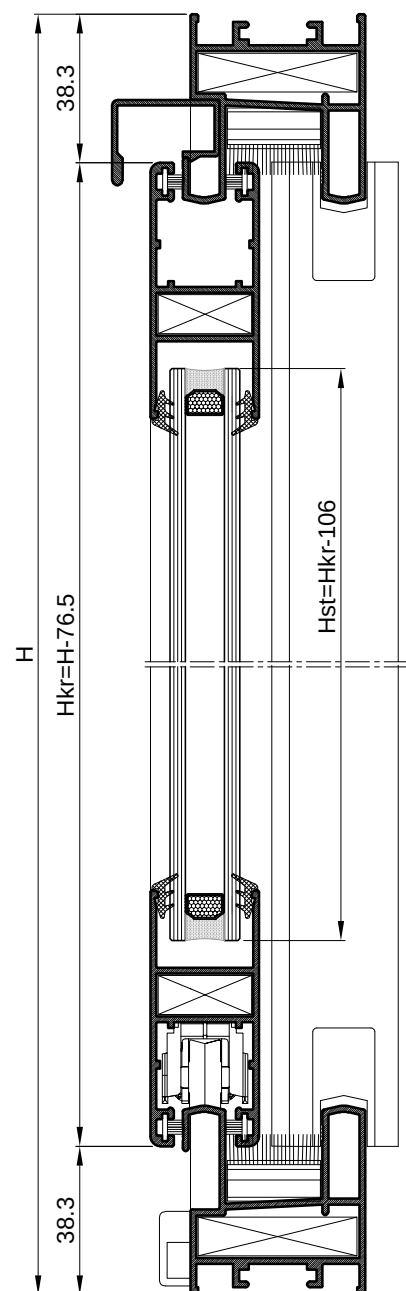
730.013	kutnik okvira corner bracket frame	4	
730.014	kutnik krila corner bracket sash	8	
143.008	kotačići-komplet za dva krila bogies-set for two sash		
140.003	3087 bravica-jezičak s prihvatnikom 1 3087 espag.-latchbolt with acceptor (safety panel)		
140.003	GS 3000 bravica-pogonski dio 1 GS 3000 espag.-driving part		
105.001	ručka za pogon i zatvarač Handle driving and closer	1	
340.010	komplet brtvalo i maska set gasket and mask	1+4	
373.003	maska za drenažni otvor mask for drainage hole	2	
375.069	odstojnik spacer	4	
373.065	umetak za H-636 insert for H-636	par pair	

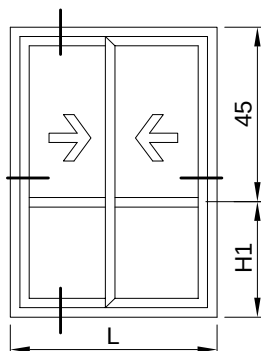
BRTVE GASKET

318.001	brtva prema staklu gasket to the glass	4L+8H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004		4L+6H	

STAKLO GLASS

18 mm	2	Lkr-106 x Hkr-106
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PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
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H-631	vodoravnica okvira frame horizontal profile	2	L	45-45
H-631	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	4	L/2-5	45-45
H-630	okomica krila sash vertical profile	4	H-76.5	45-45
H-635	prečka mullion	2	Lkr-92	90-90
H-634	završni profil finish profil	2	H-76.5	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

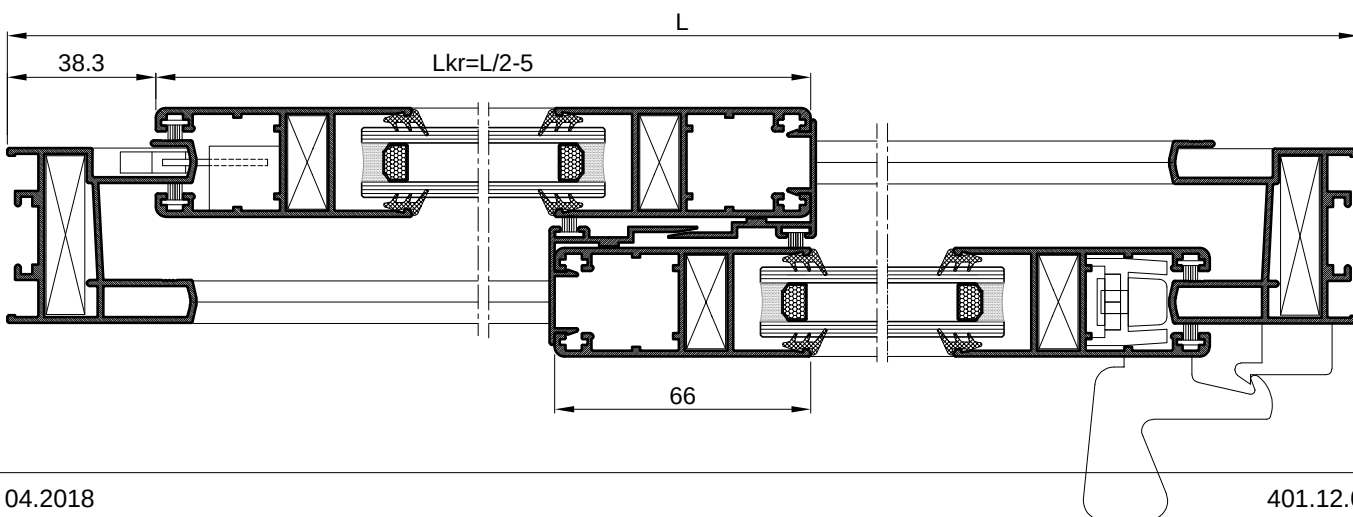
730.013	kutnik okvira corner bracket frame	4		
730.014	kutnik krila corner bracket sash	8		
143.008	kotačići-komplet za dva krila bogies-set for two sash			
140.003	3087 bravica-jezičak s prihvatnikom 3087 espag-latchbolt with acceptor	1		
140.003	GS 3000 bravica-pogonski dio 1 GS 3000 espag.-driving part			
105.001	ručica za pogon i zatvarač handle for driving and closer	1		
340.010	komplet-brtvilo i maska set gasket and mask	1+4		
373.003	maska za drenažni otvor mask for drainage hole	2		
375.069	odstojnik spacer	4		
373.065	umetak za H-636 insert for H-636	par pair		

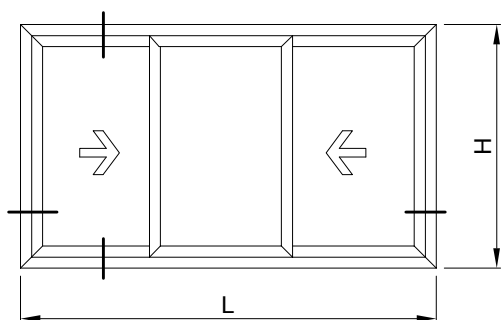
BRTVE GASKETS

318.001	brtva prema staklu gasket to the glass		8L+8H	45-45
Četkasta brtva 7x5.5 brush gasket 7x5.5	347.004		4L+6H	

STAKLO GLASS

18 mm	2	Lkr-106 x H1-73
18 mm	2	Lkr-106 x H2-73





PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-631	vodoravnica okvira frame horizontal profile	2	L	45-45
H-631	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	6	L/3+18.5	45-45
H-630	okomica krila sash vertical profile	6	H-76.5	45-45
H-634	završni profil finish profile	4	H-76.5	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

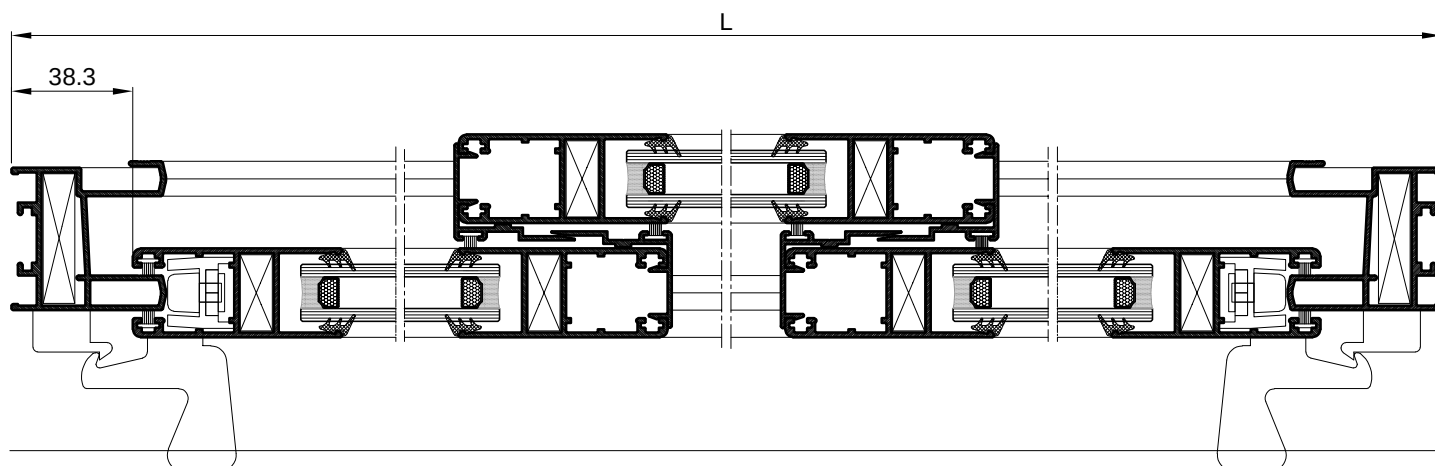
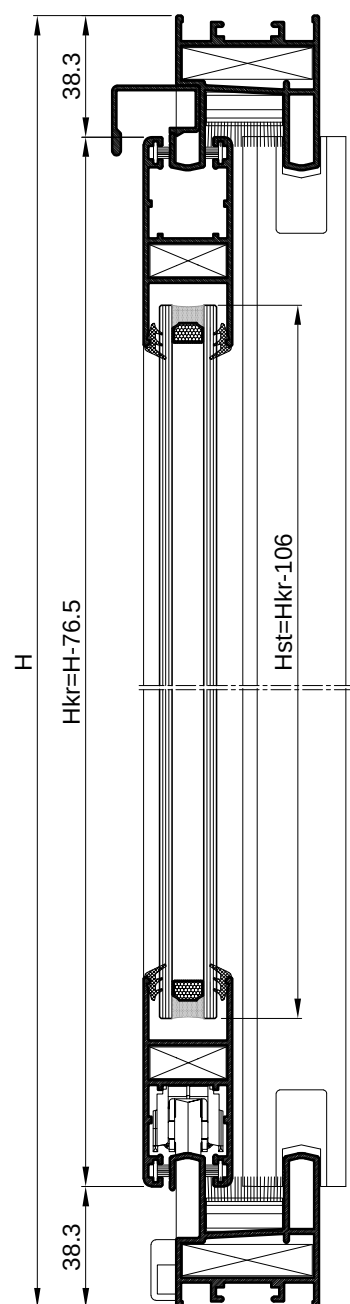
730.013	kutnik okvira corner bracket frame	4		
730.014	kutnik krila corner bracket sash	12		
143.008	kotačići-komplet za tri krila boggles-set for three sash			
105.001	ručka za pogon i zatvarač handle for driving and closer	2		
340.010	komplet brtvilo i maska set gasket and mask	2+8		
373.003	maska za drenažni otvor mask for drainage hole	3		
375.069	odstojnik spacer	4		
373.065	umetak za H-636 insert for H-636	par pair		

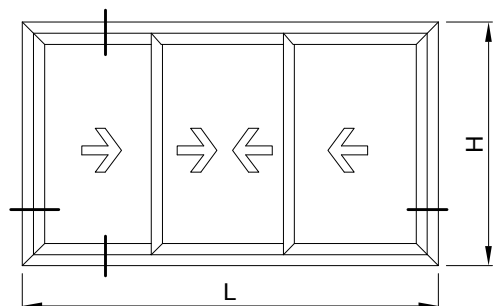
BRTVE GASKET

318.001	brtva prema staklu gasket to the glas		4L+12H	45-45
Četkasta brtva 7x5.5 347.004	brush gasket 7x5.5 347.004		4L+8H	

STAKLO GLASS

18 mm		3	Lkr-106 x Hkr-106	
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PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-644	vodoravnica okvira frame horizontal profile	2	L	45-45
H-644	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	6	$L/3+18.5$	45-45
H-630	okomica krila sash vertical profile	6	H-76	45-45
H-634	završni profil finish profile	4	H-76	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

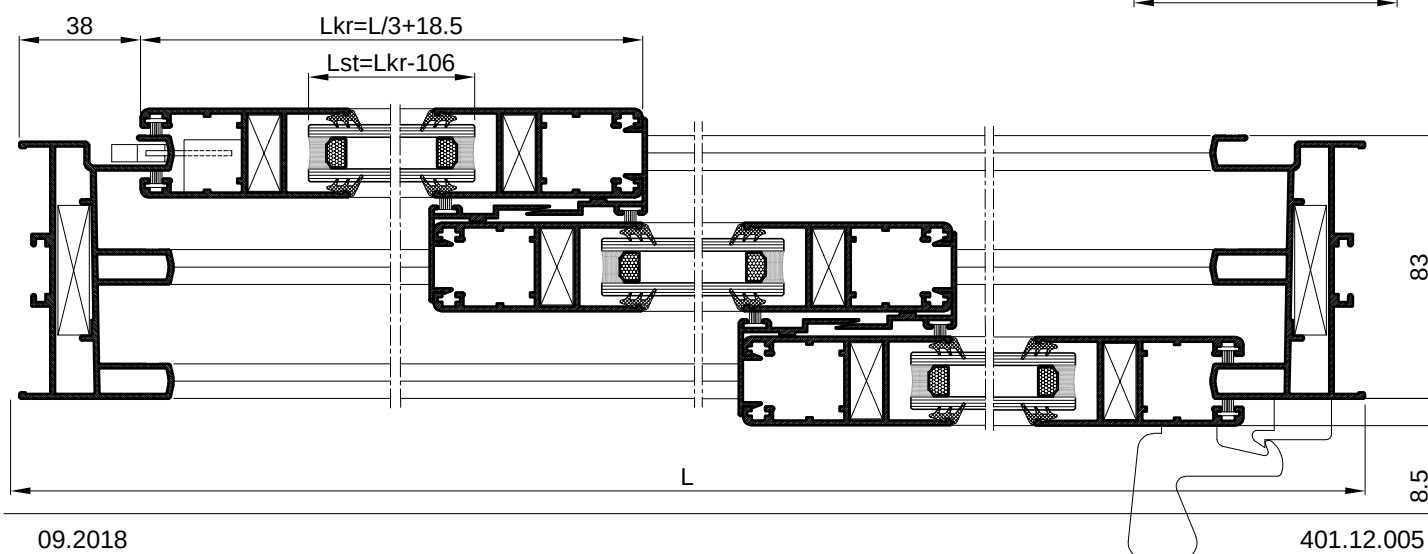
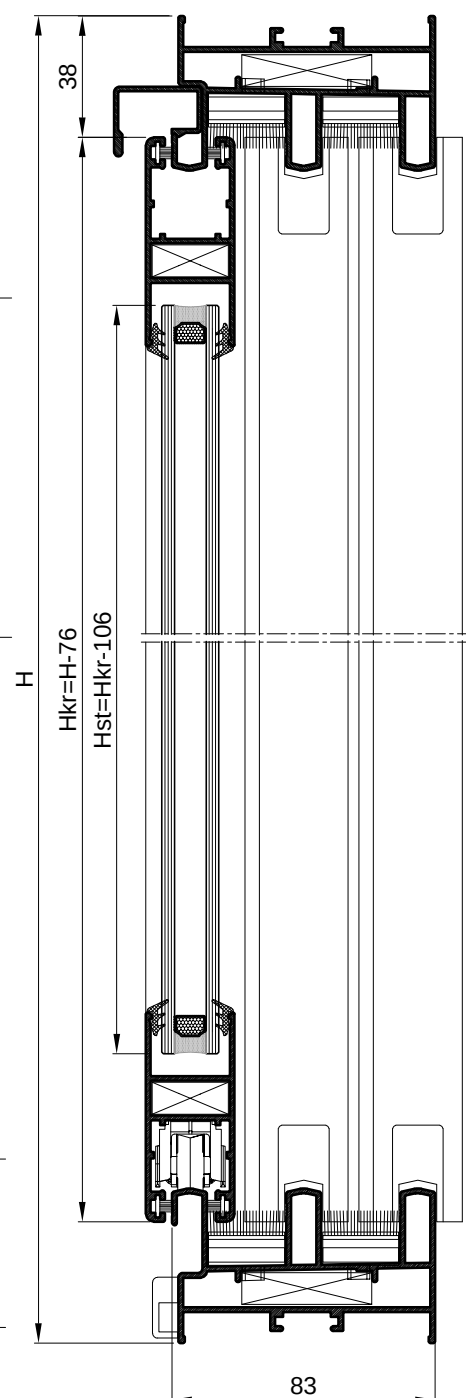
730.013	kutnik okvira corner bracket frame	4		
730.014	kutnik krila corner bracket sash	12		
143.008	kotačići komplet za tri krila boggles-set for three sash			
140.003	3087 bravica-jezičak s prihvatnikom 1 3087 espag.-latchbolt with acceptor	1		
140.003	GS 3000 bravica-pogonski dio 1 GS 3000 espag-driving part	1		
105.001	ručka za pogon i zatvarač handle for driving and closer	1		
340.010	komplet-brtvilo i maska set-gasket and mask	2+8		
373.003	maska za drenažni otvor mask for drainage hole	3		
375.069	odstojnik spacer	4		
373.065	umetak za H-636 insert for H-636	par		

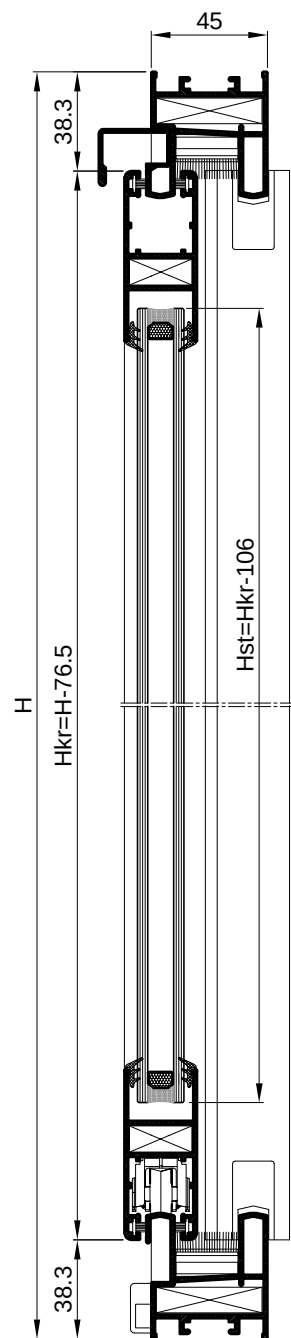
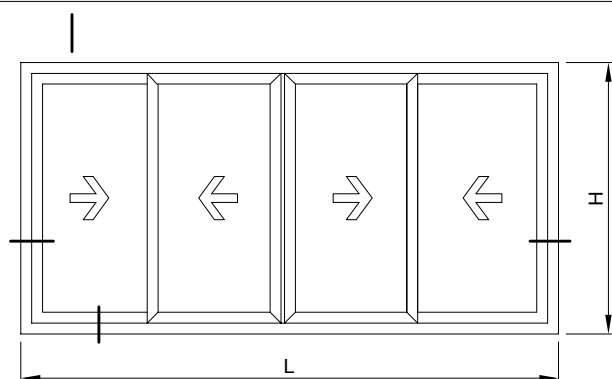
BRTVE GASKET

318.001	brtva prema staklu gasket to the glass		4L+12H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004			4L+8H	

STAKLO GLASS

218 mm	3	Lkr-106 x Hkr-106	
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PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-631	vodoravnica okvira frame horizontal profile	2	L	45-45
H-631	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	8	L/4+13	45-45
H-630	okomica krila sash vertical profile	8	H-76.5	45-45
H-634	završni profil finish profile	4	H-76.5	90-90
H-637	vezni profil connection profile	1	H-100	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

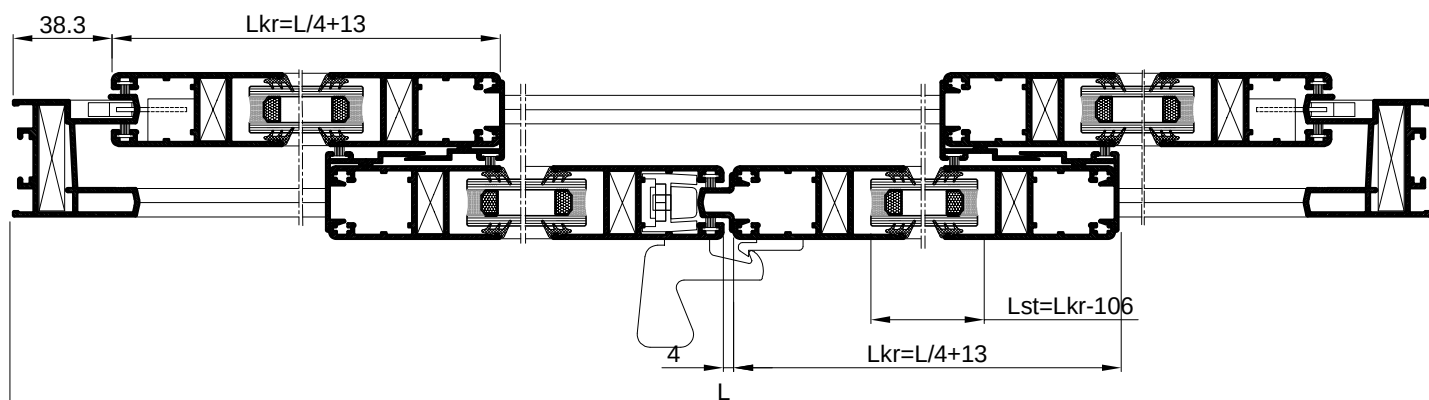
730.013	kutnik okvira corner bracket frame	4	
730.014	kutnik krila corner bracket sash	16	
143.008	kotačići-komplet za četiri krila bogies- set for four sash		
140.003	3087 bravica-jezičak s prihvatnikom 3087 espag.-latchbolt with acceptor	2	
140.003	GS 3000 bravica-pogonski dio GS 3000 espag-driving part	2	
105.001	ručka za pogon i zatvarač handle for driving and closer	1	
340.010	komplet-brtvilo i maska set for gaskets and mask	2+8	
373.003	maska za drenažni otvor mask for drainage hole	3	
375.069	odstojnik spacer	6	
373.065	umetak za H-636 insert for H-636	par pair	

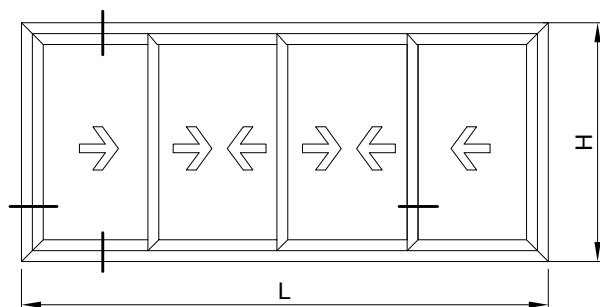
BRTVE GASKET

318.001	brtva prema staklu gasket to the glass		4L+16H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004			4L+10H	

STAKLO GLASS

18 mm	4	Lkr-106 x Hkr-106
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PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-643	vodoravnica okvira frame horizontal profile	2	L	45-45
H-643	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	8	$L/4+30$	45-45
H-630	okomica krila sash vertical profile	8	H-76.5	45-45
H-634	završni profil finish profile	6	H-76.5	90-90
H-636	okapnica drip cap profile	1	L-41	90-90

OKOVI HARDWARE

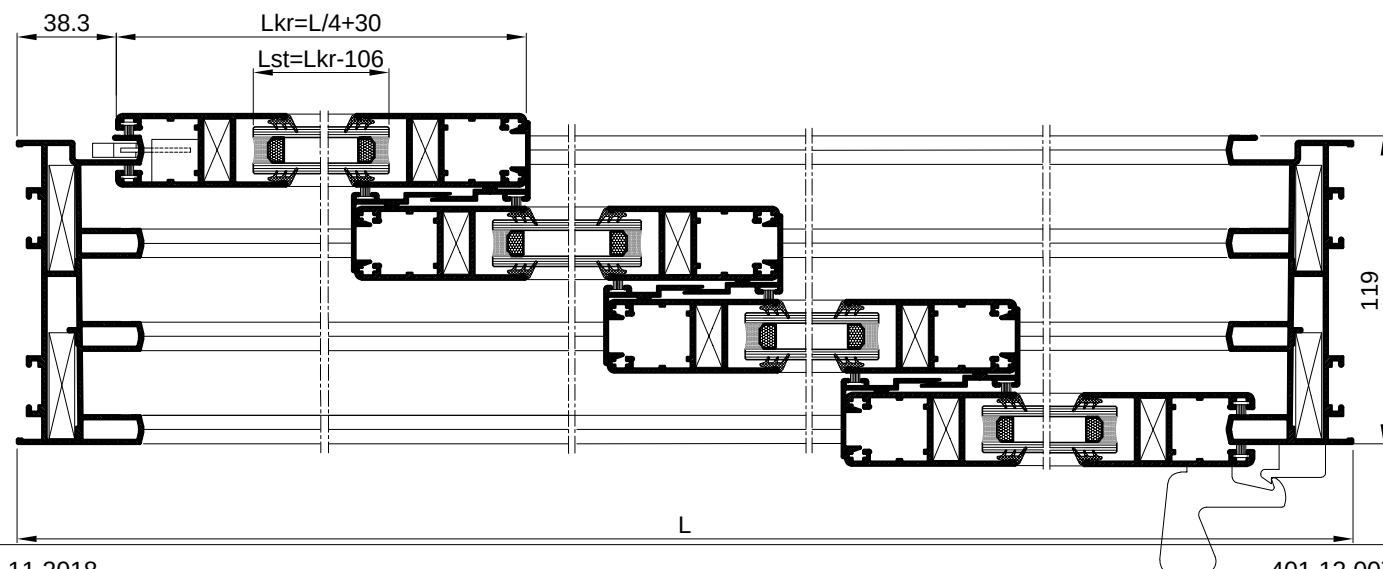
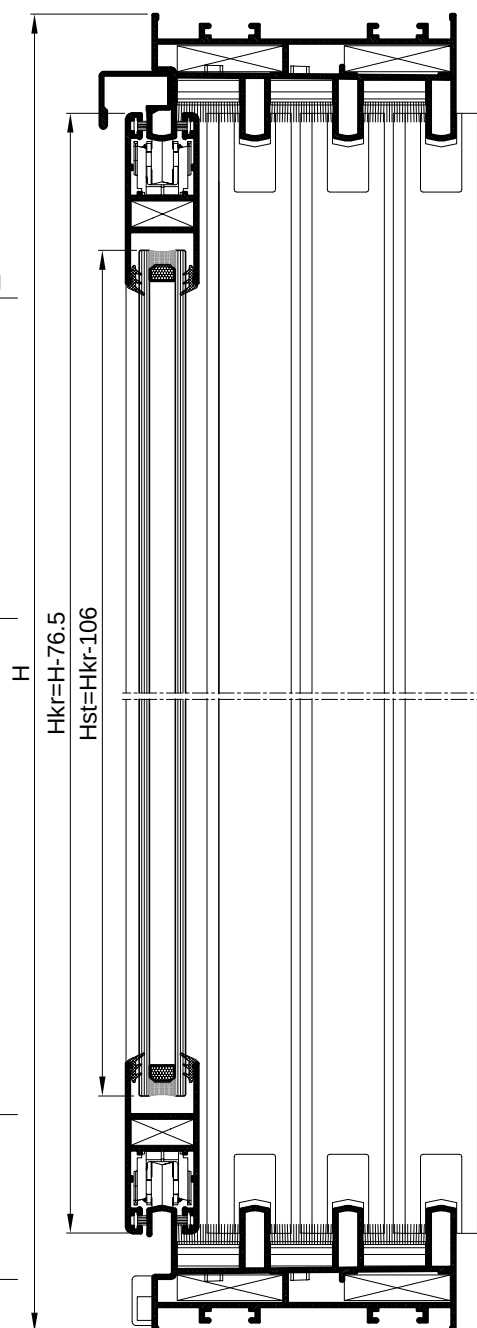
730.013	kutnik okvira corner bracket frame	8		
730.014	kutnik krila corner bracket sash	16		
143.008	kotačići-komplet za četiri krila bogies-set for four sash			
140.003	3087 bravica-jezičak s prihvatnikom 3087 bogies- latchbolt with acceptor	1		
140.003	GS 3000 bravica-pogonski dio GS 3000 espag.-driving part	1		
105.001	ručka za pogon i zatvarač handle for driving and closer	1		
340.010	komplet-brtvilo i maska set-gasket and mask	3+12		
373.003	maska za drenažni otvor mask for drainage hole	3		
375.069	odstojnik spacer	4		
373.065	umetak za H-636 insert for H-636	par par		

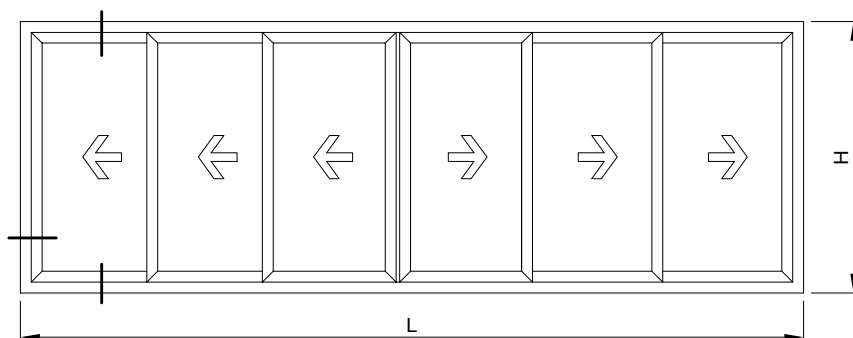
BRTVE GASKET

318.001	brtva prema staklu gasket to the glass		4L+16H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004			4L+10H	

STAKLO GLASS

18 mm	4	Lkr-106 x Hkr-106
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PROFILI PROFILES		kom pcs	mjera measure	pilanje cutting
H-644	vodoravnica okvira frame horizontal profile	2	L	45-45
H-644	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	12	$L/6+30.6$	45-45
H-630	okomica krila sash vertical profile	12	H-76.6	45-45
H-634	završni profil finish profile	8	H-76.6	90-90
H-637	vezni profil connection profile	1	H-76.6	90-90
H-636	okapnica drip cap profile	1	L-52	90-90

OKOVI HARDWARE

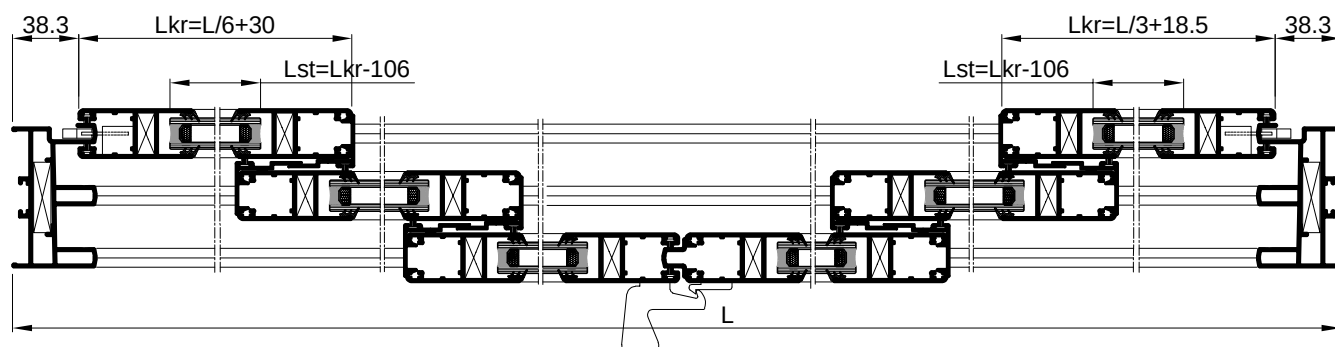
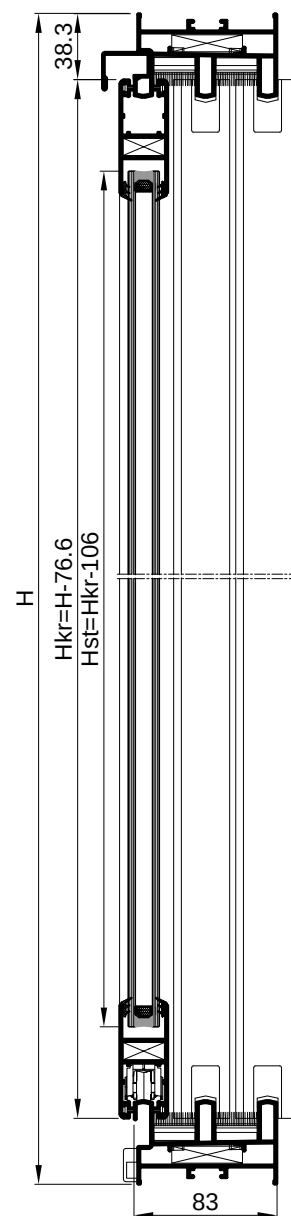
730.013	kutnik okvira corner bracket frame	4	
730.014	kutnik krila corner bracket sash	24	
143.008	kotačići-komplet za šest krila bogies- set for six sash		
140.003	3087 bravica-jezičak s prihvatnikom 3087 espag.-latchbolt with acceptor	2	
140.003	GS 3000 bravica-pogonski dio GS 3000 espag-driving part	2	
105.001	ručka za pogon i zatvarač handle for driving and closer	1	
340.010	komplet-brtvilo i maska set for gaskets and mask	6	
373.003	maska za drenažni otvor mask for drainage hole	6	
375.069	odstojnik spacer	6	
373.065	umetak za H-636 insert for H-636	par pair	

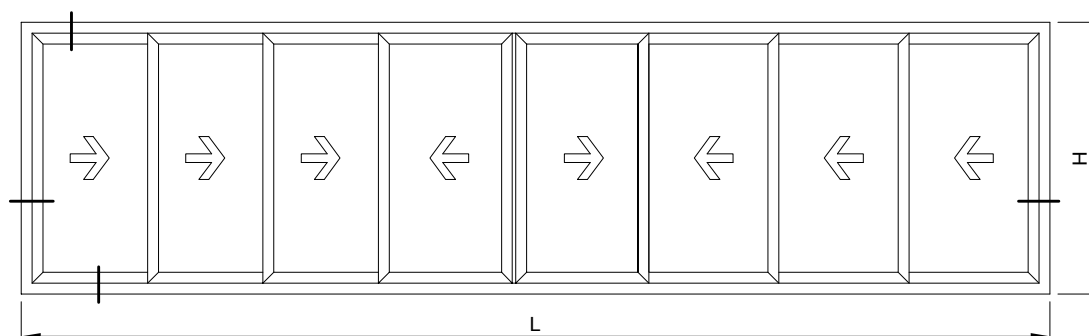
BRTVE GASKET

318.001	brtva prema staklu gasket to the glass	6L+24H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004		6L+14H	

STAKLO GLASS

18 mm	6	Lkr-106 x Hkr-106
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PROFILI PROFILI		kom pcs	mjera measure	pilanje cutting
H-643	vodoravnica okvira frame horizontal profile	2	L	45-45
H-643	okomica okvira frame vertical profile	2	H	45-45
H-630	vodoravnica krila sash horizontal profile	16	$L/8+39.4$	45-45
H-630	okomica krila sash vertical profile	16	H-76.6	45-45
H-634	završni profil finish profile	12	H-76.6	90-90
H-636	okapnica drip cap profile	1	L-41	90-90

OKOVI HARDWARE

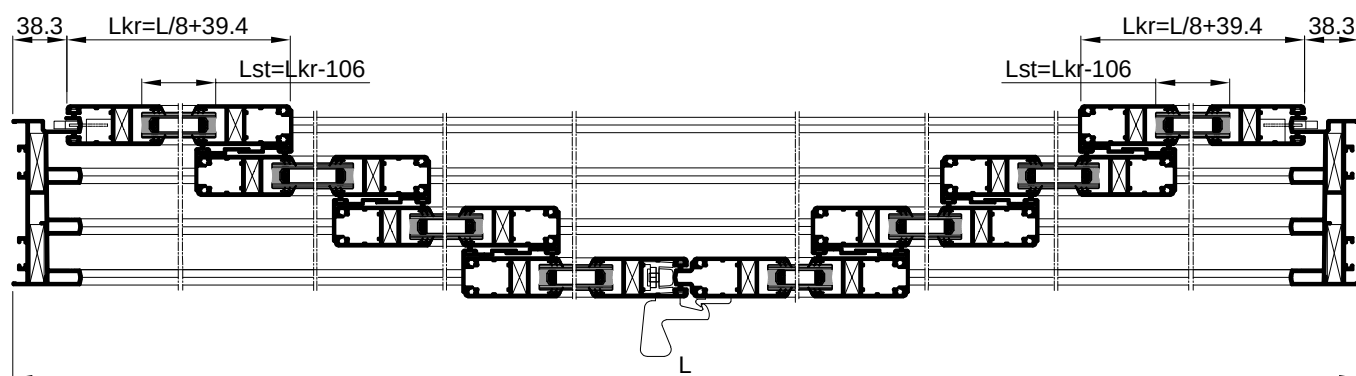
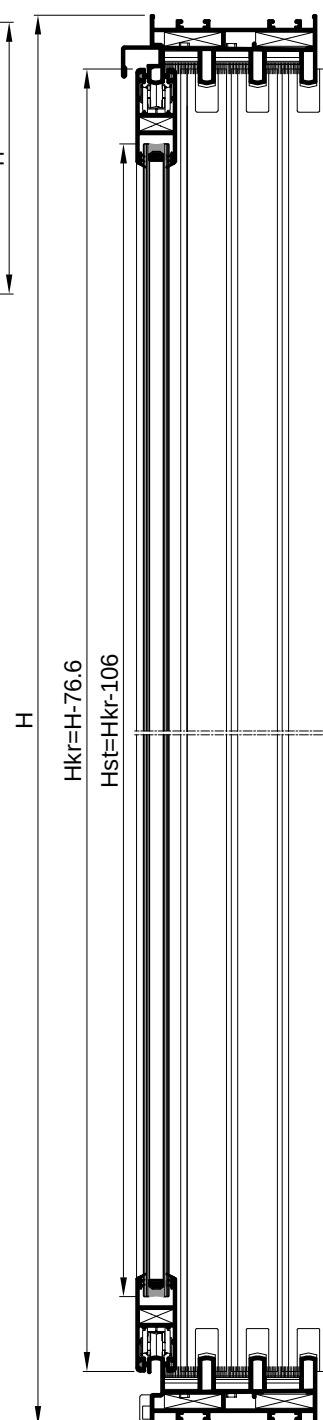
730.013	kutnik okvira corner bracket frame	8		
730.014	kutnik krila corner bracket sash	32		
143.008	kotačići-komplet za osam krila bogies-set for eight sash			
140.003	3087 bravica-jezičak s prihvatnikom 3087 bogies- latchbolt with acceptor	2		
140.003	GS 3000 bravica-pogonski dio GS 3000 espag.-driving part	2		
105.001	ručka za pogon i zatvarač handle for driving and closer	1		
340.010	komplet-brtvilo i maska set-gasket and mask	8		
373.003	maska za drenažni otvor mask for drainage hole	3		
375.069	odstojnik spacer	8		
373.065	umetak za H-636 insert for H-636	par pair		

BRTVE GASKET

318.001	brtva prema staklu gasket to the glass		8L+32H	45-45
Četkasta brtva 7x5.5 347.004 brush gasket 7x5.5 347.004			8L+18H	

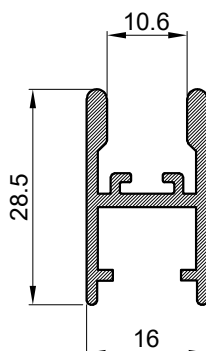
STAKLO GLASS

18 mm	4	Lkr-106 x Hkr-106		
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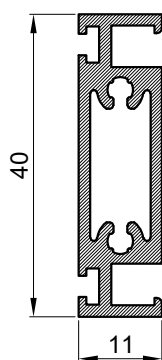


KLIZNE KOMARICE

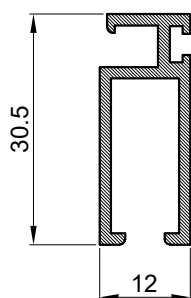




Profil rama komarice		
Art.-Br.	H-640	
Težina	kg/m	0.379
Opseg	mm	166
Dužina isporuke	mm	6500



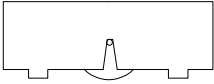
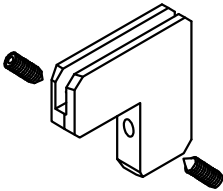
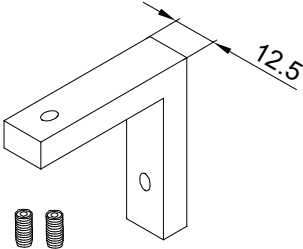
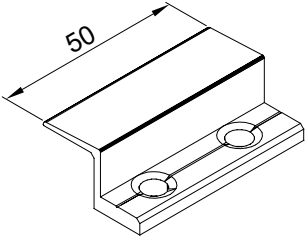
Profil prečke komarice		
Art.-Br.	H-641	
Težina	kg/m	0.521
Opseg	mm	151
Dužina isporuke	mm	6500

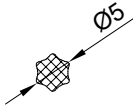
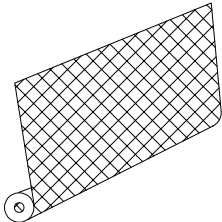
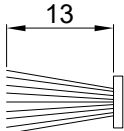


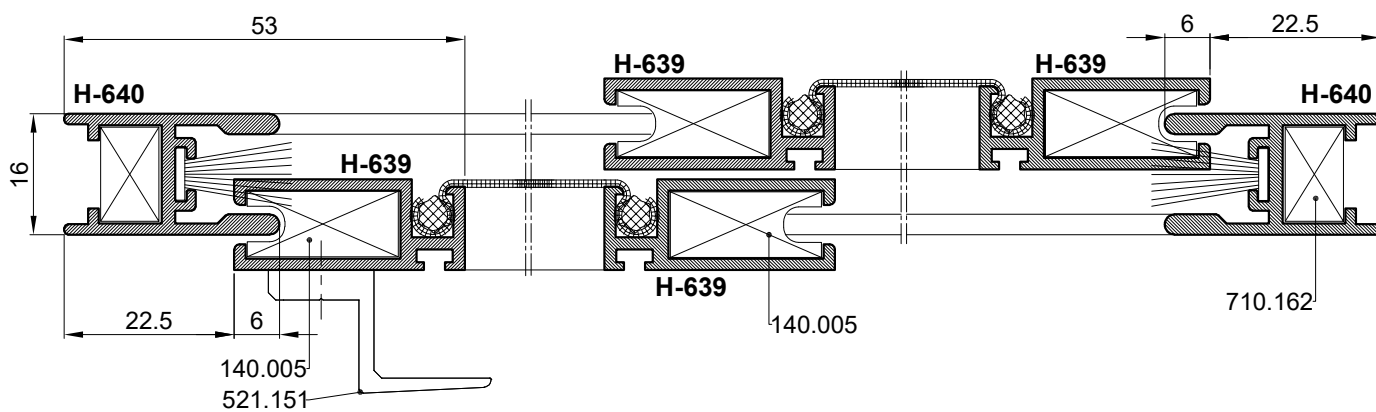
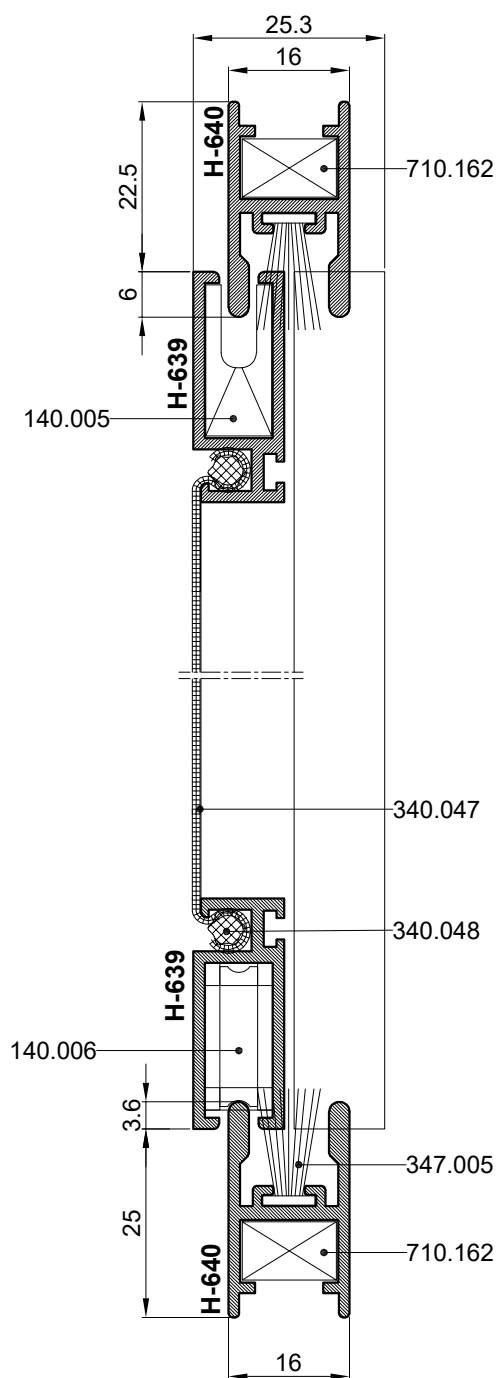
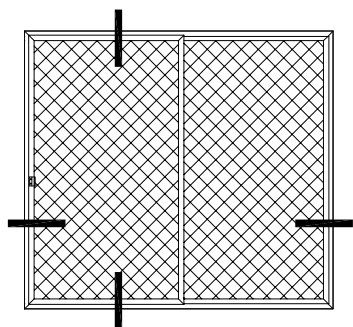
Profil krila komarice		
Art.-Br.	H-639	
Težina	kg/m	0.323
Opseg	mm	161
Dužina isporuke	mm	6500

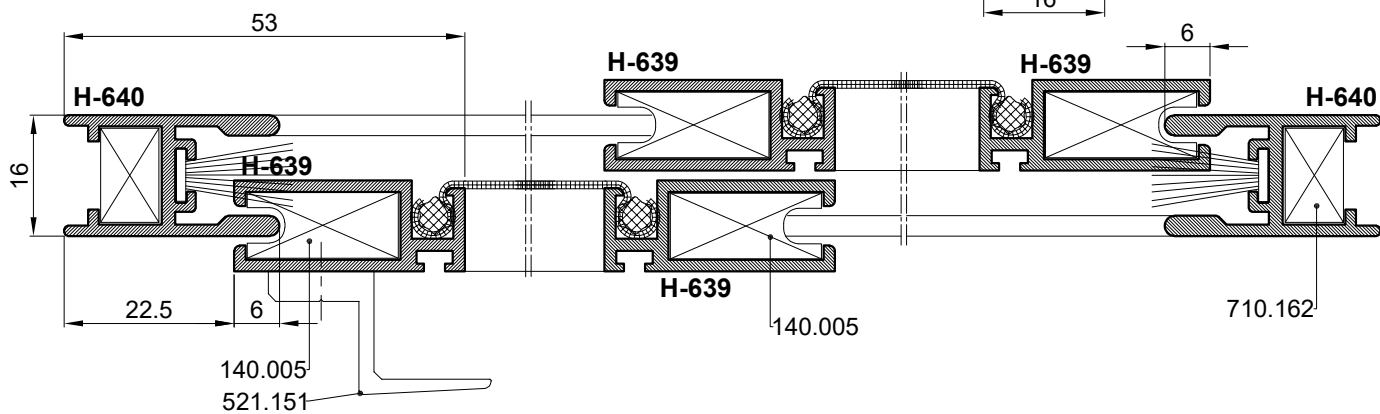
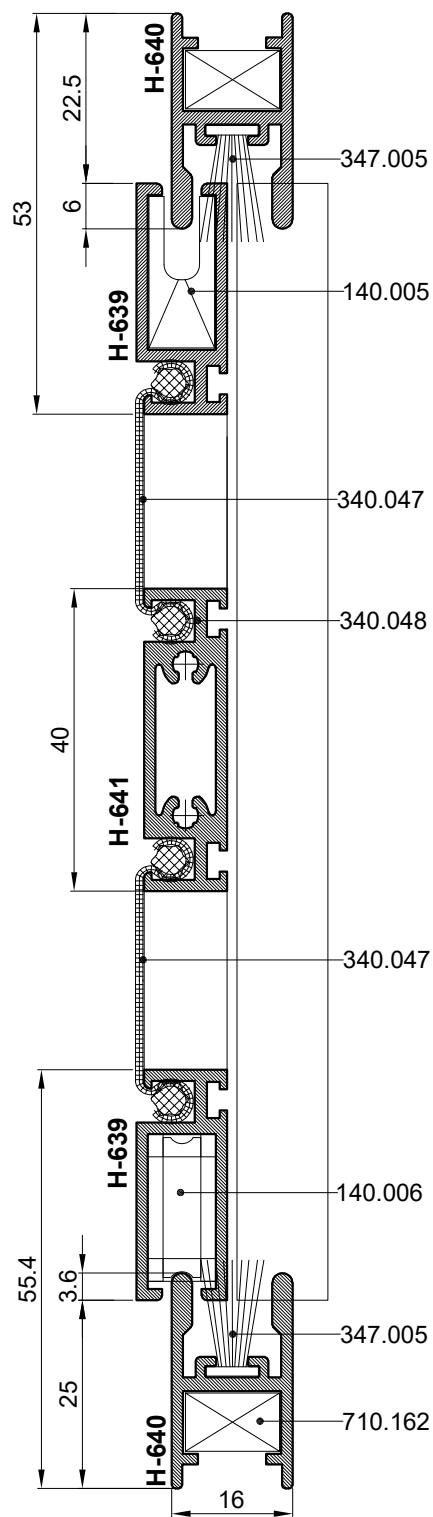
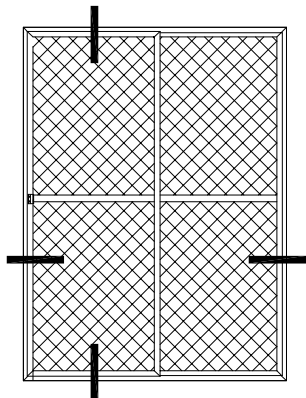
KLIZNE KOMARICE

Okovi

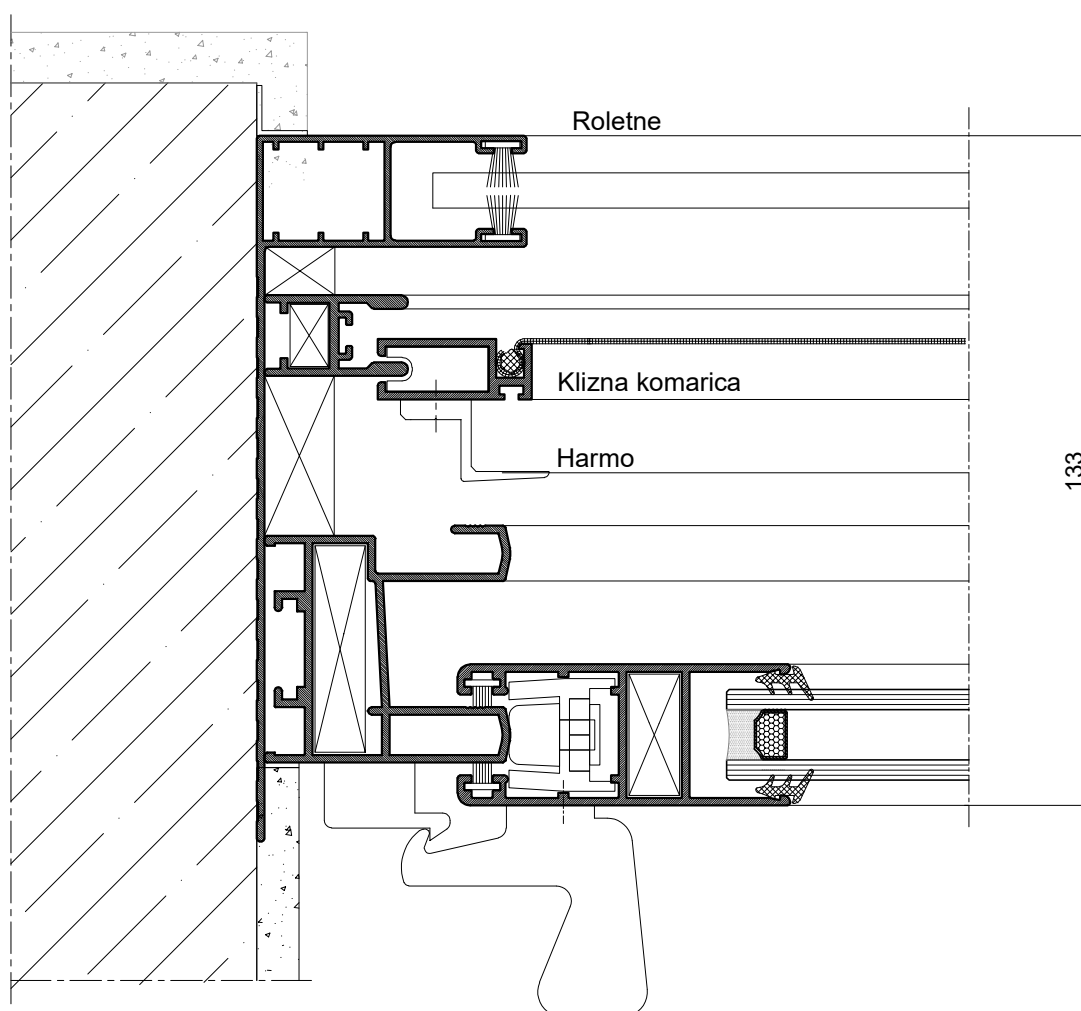
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140.006		-Kotačiči komarice -Oznaka proizvođača: A7061 (Master)		
140.005		-Kutna spojnica krila komarice -Oznaka proizvođača: A7013.2(Master)	PVC	
710.162		-Kutna spojnica rama komarice -Za komoru 13x8.3 (radi se iz profila F-0975)	Al	
521.151		- Ručica za pokretanje krila komarice	Al	

CODE	Izgled-presjek	Opis	Materijal	Nap.
340.048		-Brtva - držač mreže komarice -Stara oznaka 00600/55		
340.047		Mreža komarice	PVC	
347.005		- Četkasta brtva 7x13 - Stara oznaka PB*HFC	PP	

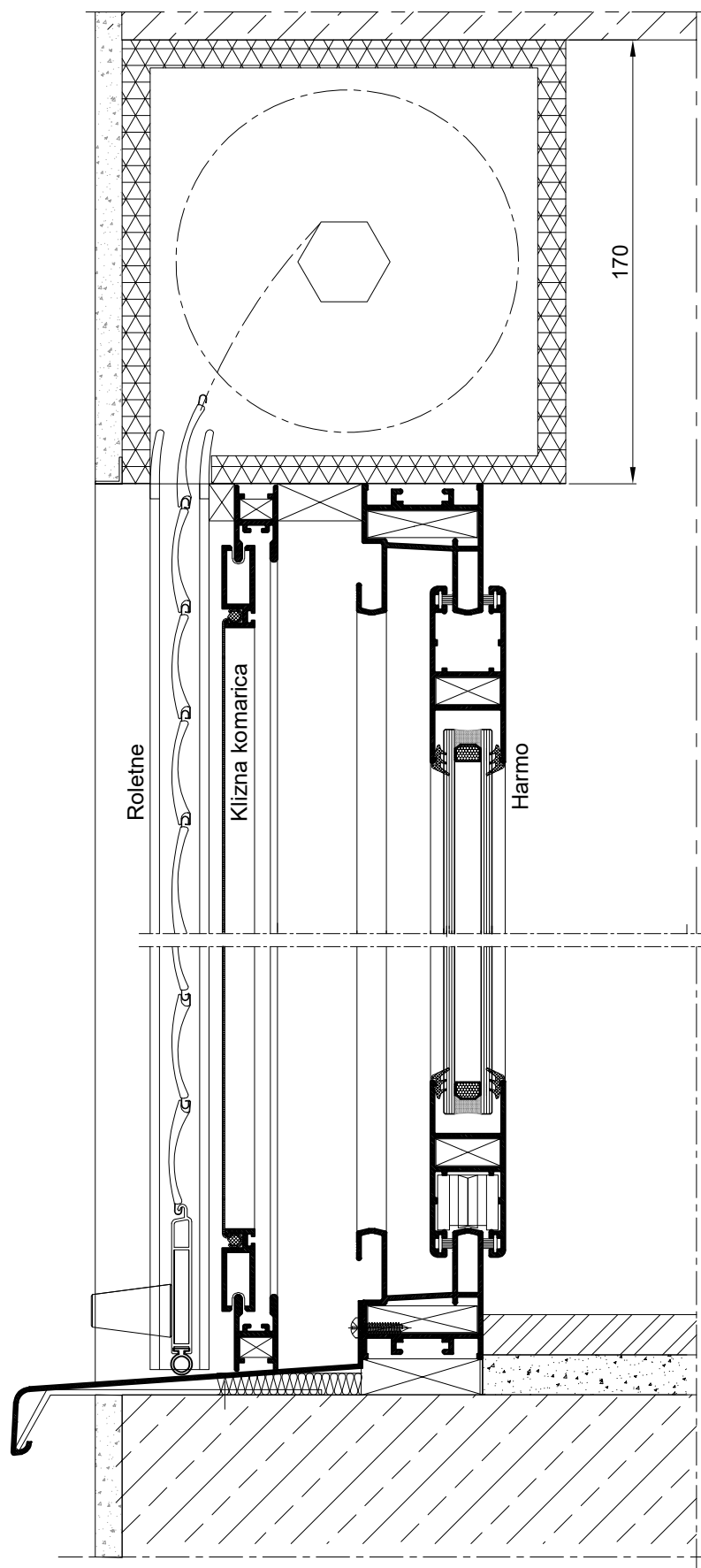




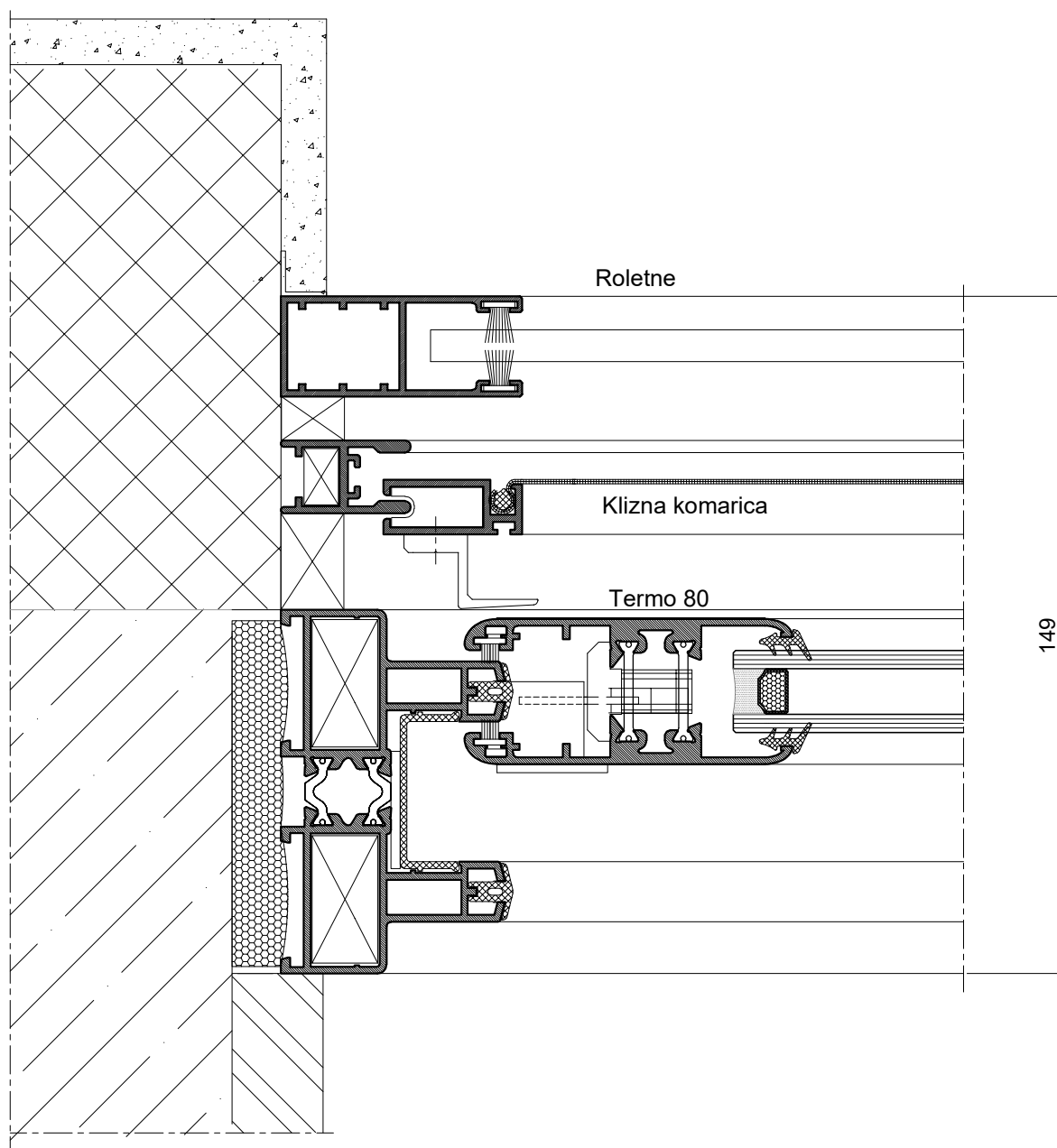
DETALJ UGRADNJE KOMARICA U SERIJI HARMO



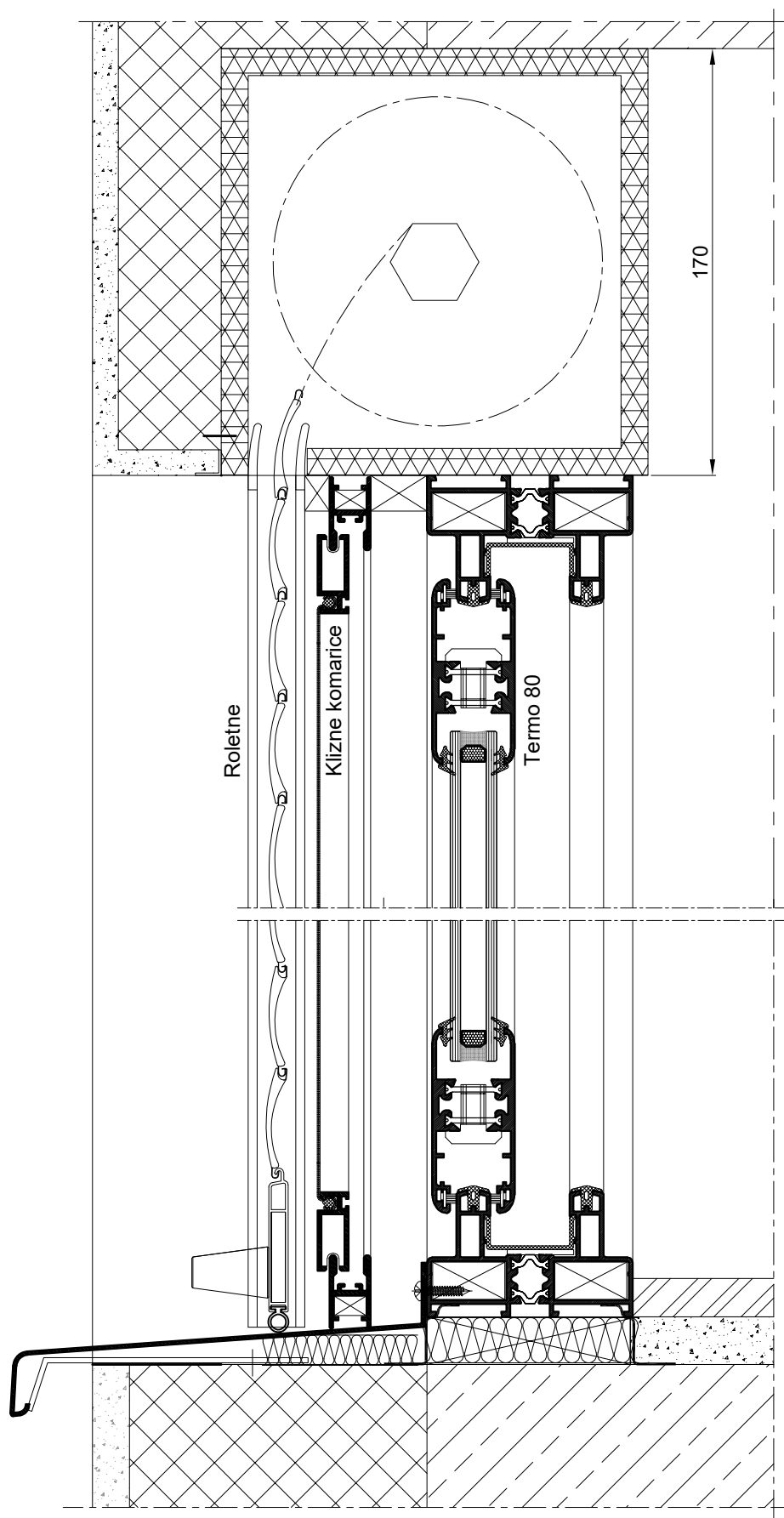
DETALJ UGRADNJE KOMARICA U SERIJI HARMO



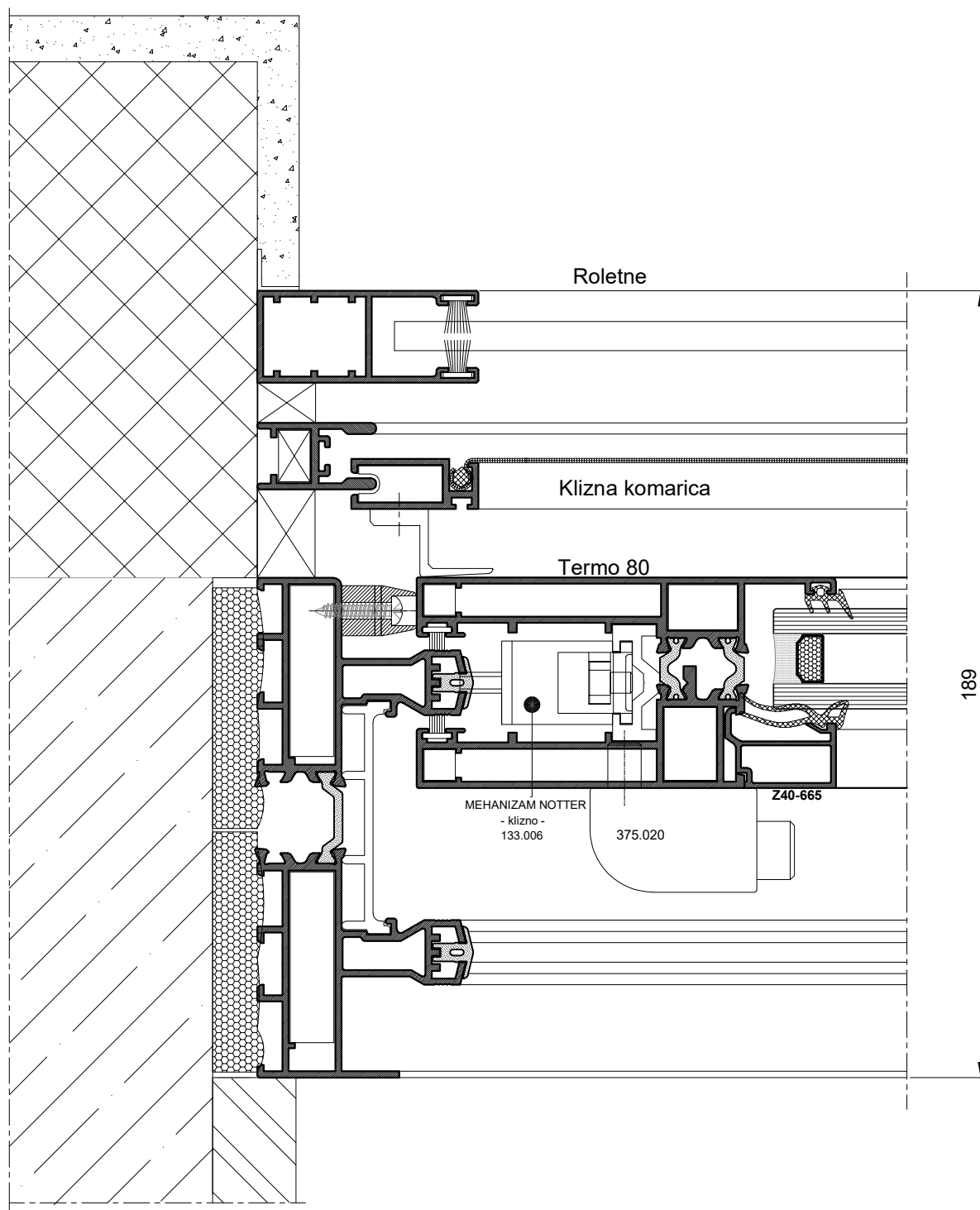
DETALJ UGRADNJE KOMARICA U SERIJI TERMO 80



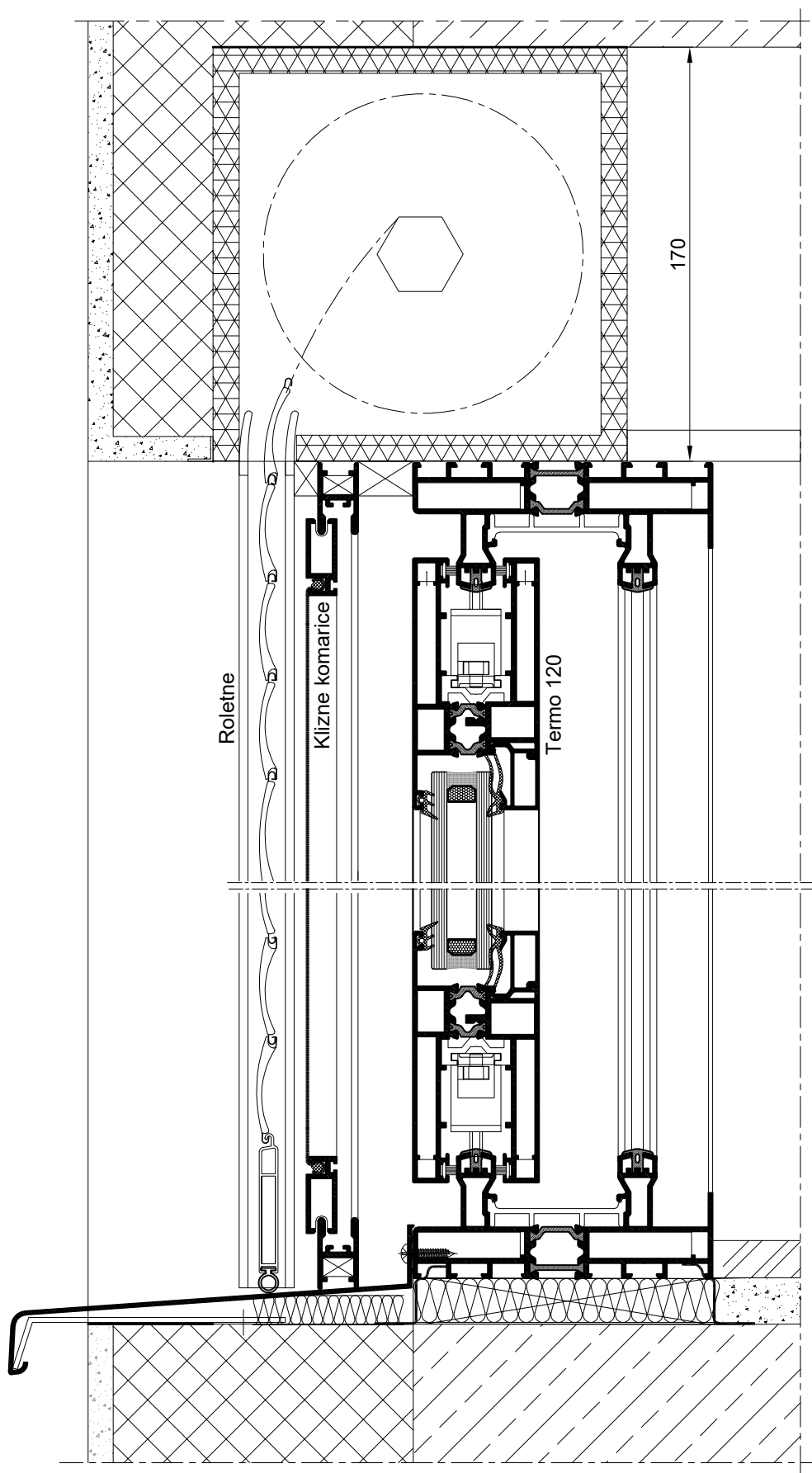
DETALJ UGRADNJE KOMARICA U SERIJI TERMO 80



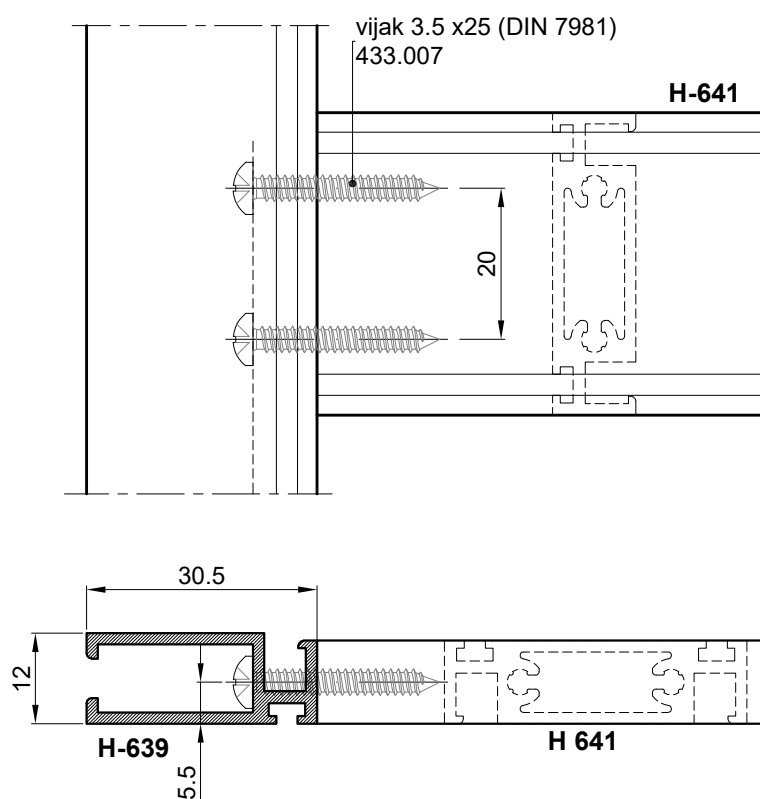
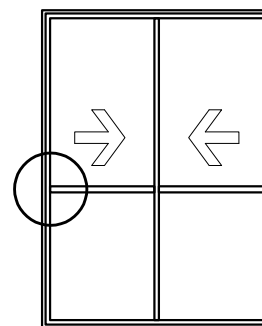
DETALJ UGRADNJE KOMARICA U SERIJI TERMO 80



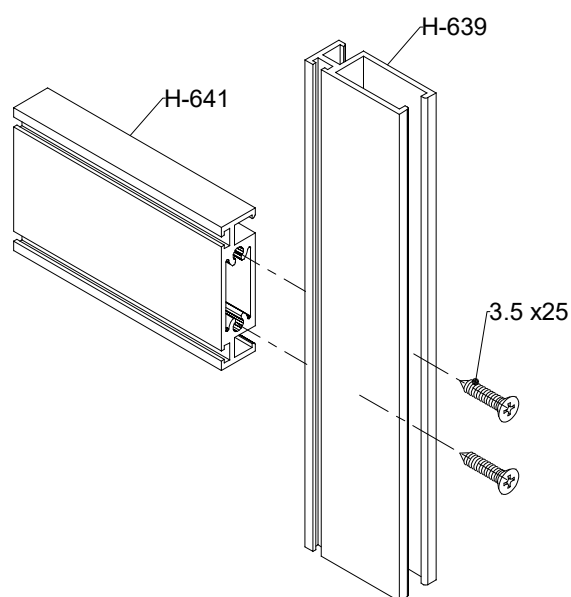
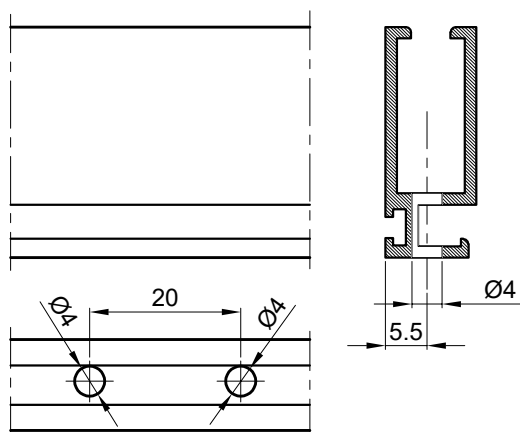
DETALJ UGRADNJE KOMARICA U SERIJI TERMO 80

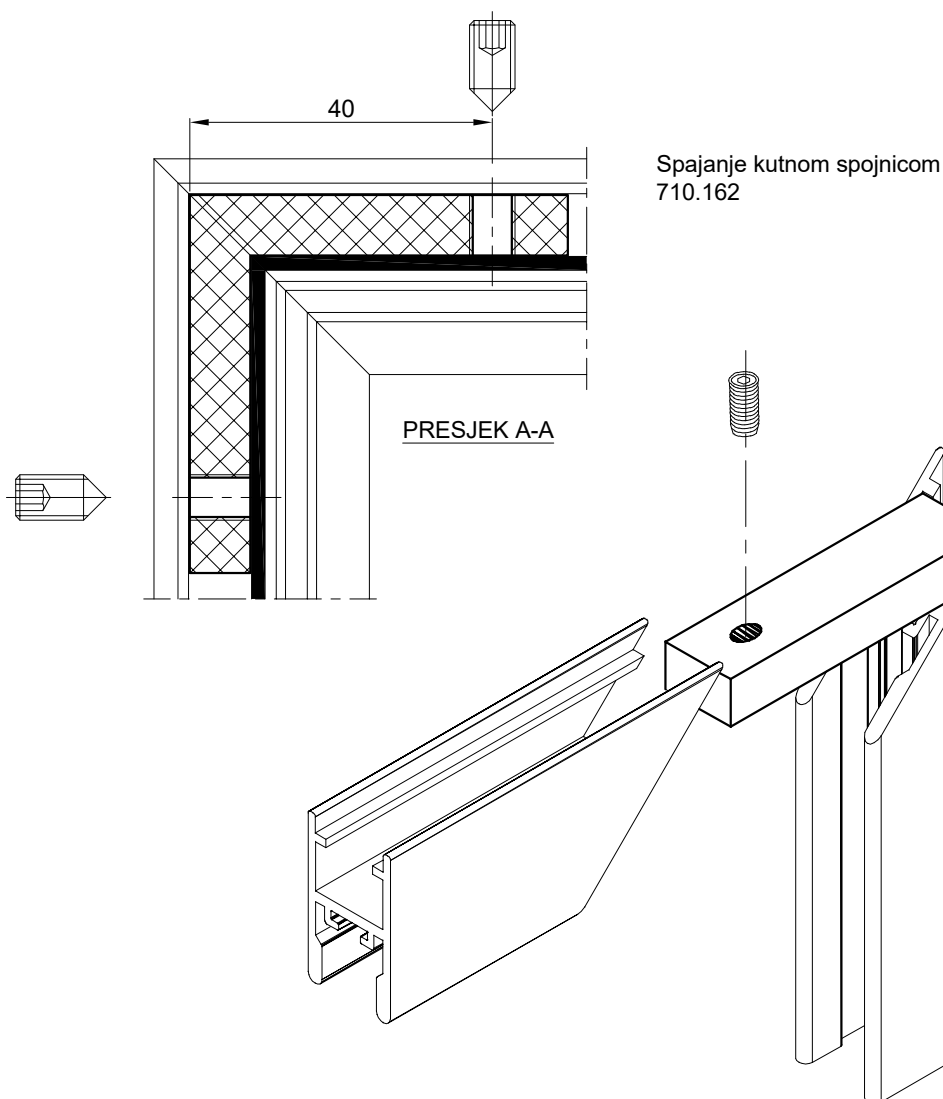
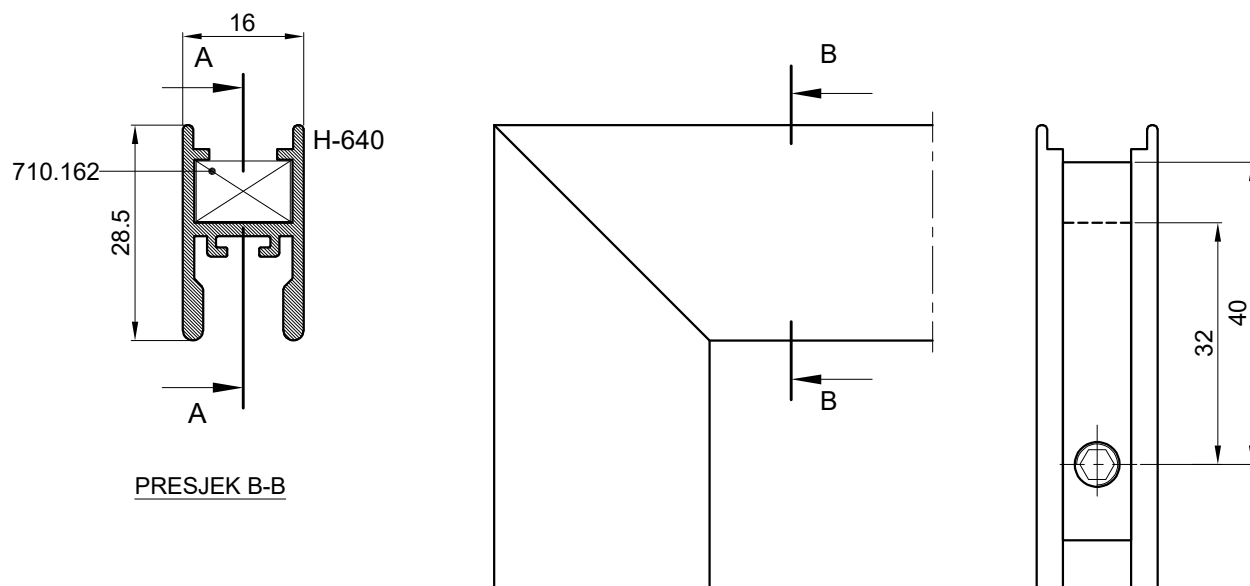


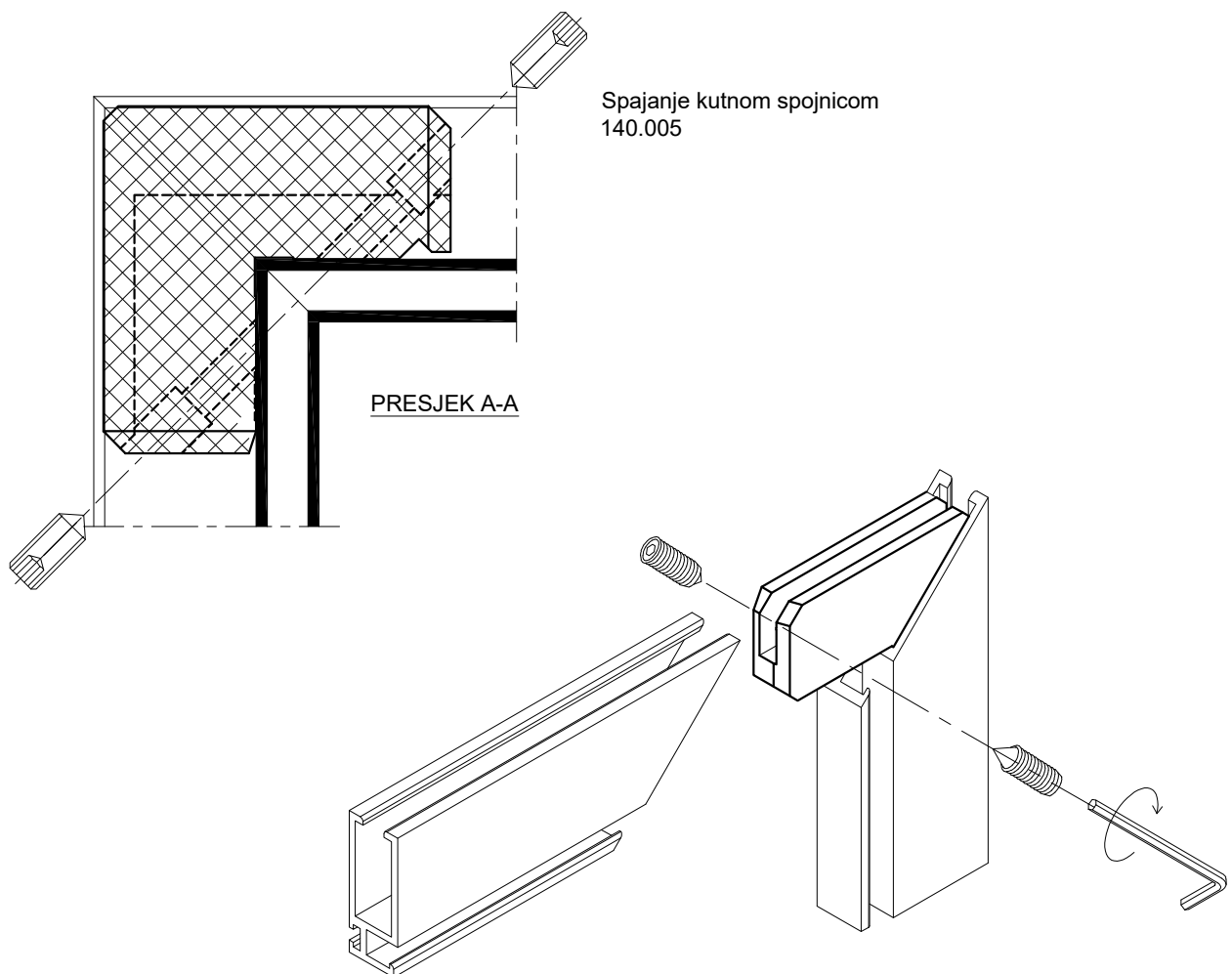
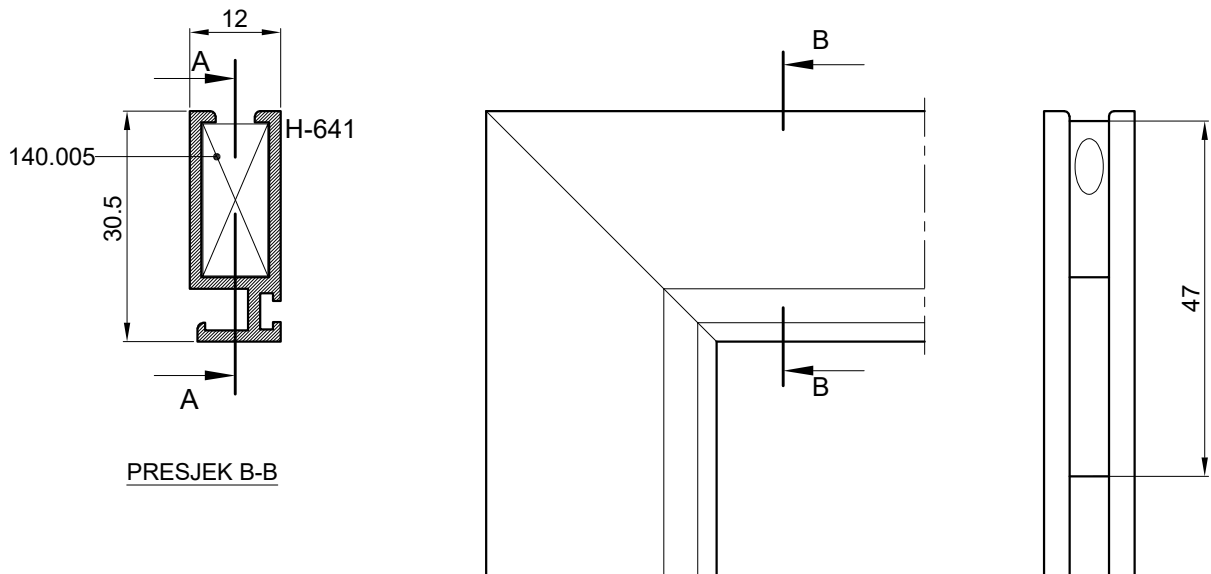
Spoj profila prečke H-641 s profilom krila H-639

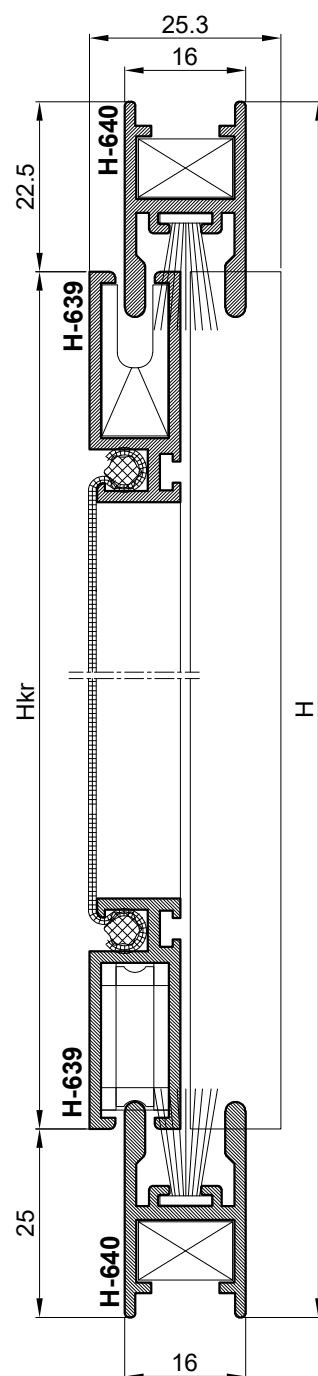
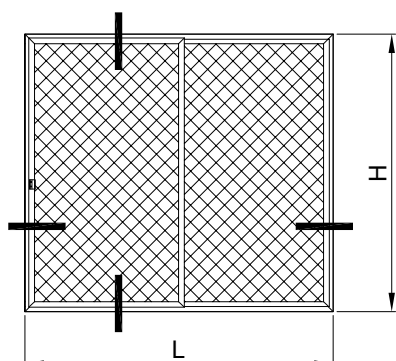


Obrada profila H-639



Spajanje profila rama H-640 kutnom spojnicom


Spajanje profila krila H-641 kutnom spojnicom - art. 140.005

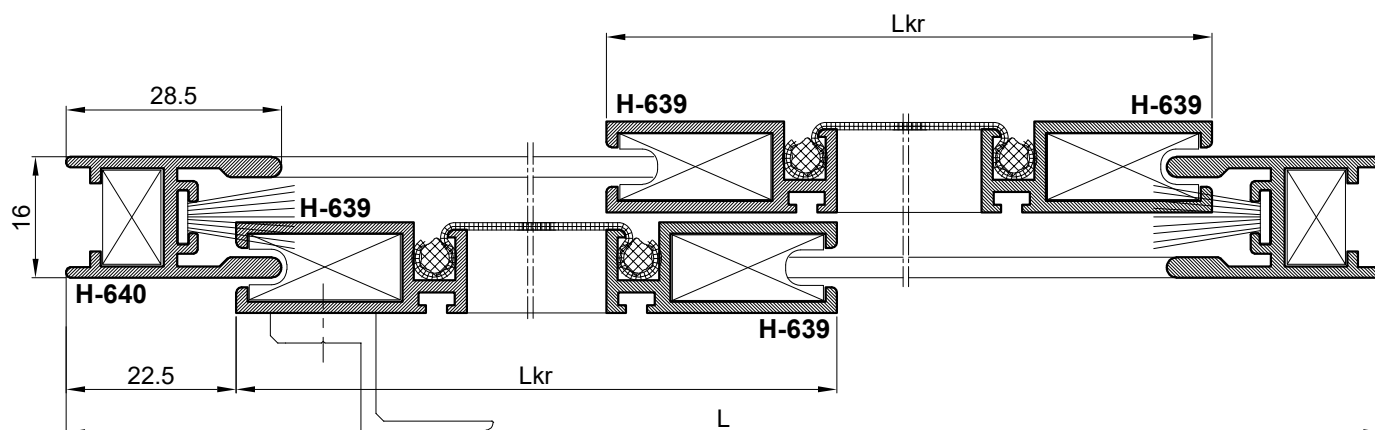


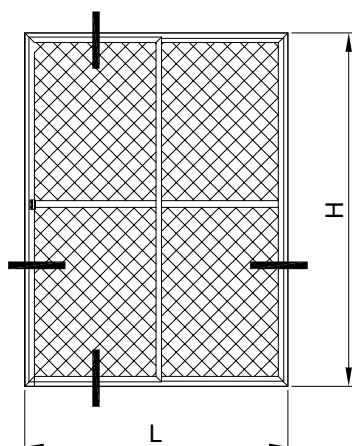
PROFILI		kom	mjera	pilanje
H-640	vodoravnica okvira	2	L	45-45
H-640	okomica okvira	2	H	45-45
H-639	vodoravnica krila	4	$L_{kr}=L/2-7$	45-45
H-639	okomica krila	4	$H_{kr}=H-47$	45-45

OKOVI		kom
710.162	Kutna spojnica okvira rama	4
140.005	Kutna spojnica krila	8
140.006	kotačići komarice	4
521.151	ručica za pokretanje krila	1

BRTVE		kom	mjera
340.048	brtva-držač mreže		$4L_{kr} + 4H_{kr}$
347.005	četkasta brtva 7x13		$2L+2H$

ISPUNA		kom	mjera
340.047	mreža komarice	2	$L_{kr} \times H_{kr}$



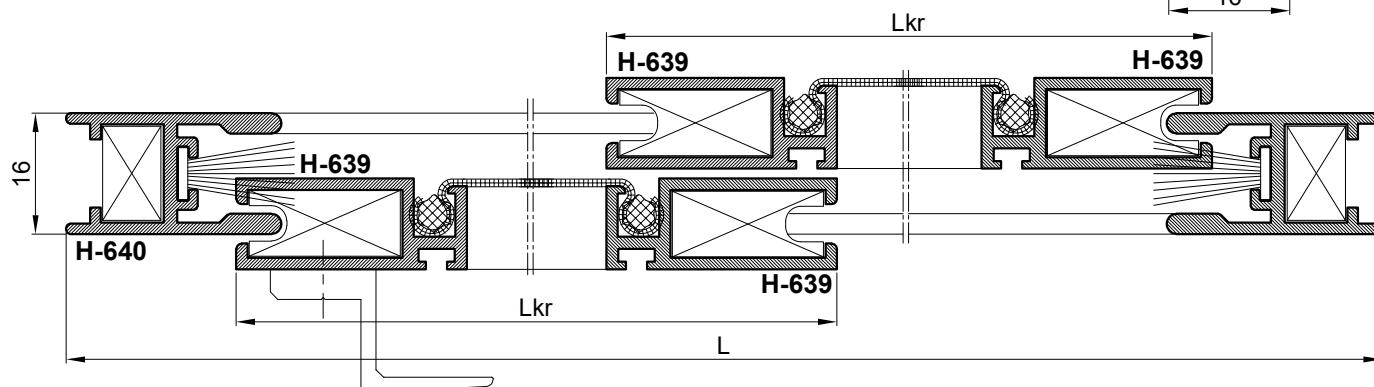
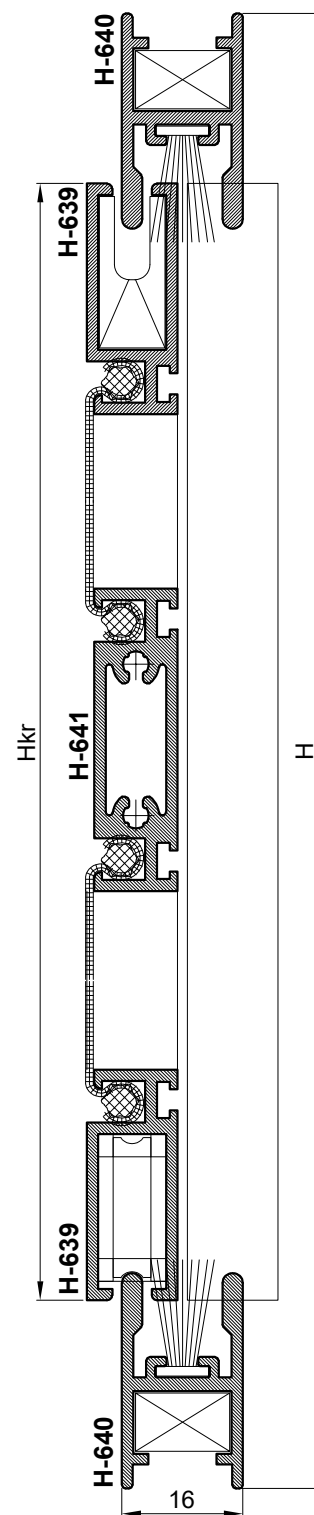


PROFILI		kom	mjera	pilanje
H-640	vodoravnica okvira	2	L	45-45
H-640	okomica okvira	2	H	45-45
H-639	vodoravnica krila	4	$L_{kr}=L/2-7$	45-45
H-639	okomica krila	4	$H_{kr}=H-47$	45-45
H-641	prečka	2	$L_{kr}-61$	90-90

OKOVI		kom
710.162	Kutna spojnica okvira rama	4
140.005	Kutna spojnica krila	8
140.006	kotačići komarice	4
521.151	ručica za pokretanje krila	1

BRTVE		kom	mjera
340.048	brtva-držač mreže		$4L+4H$
347.005	četkasta brtva 7x13		$2L+2H$

ISPUNA		kom	mjera
340.047	mreža komarice	2	$L_{kr} \times H_{kr}$



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HARMO

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