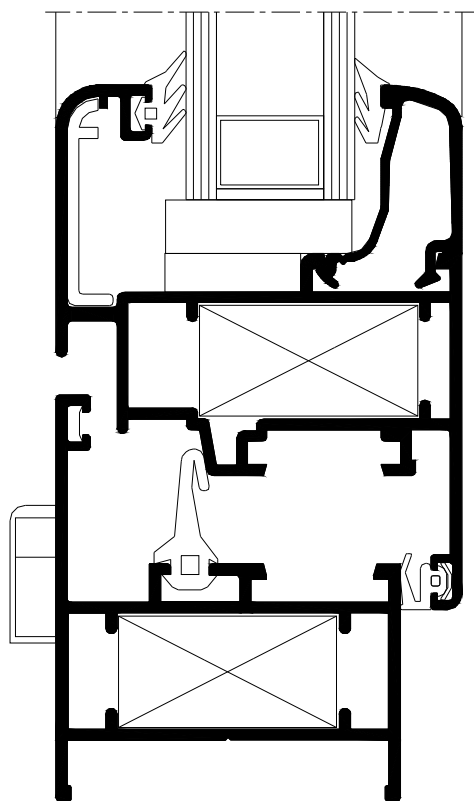
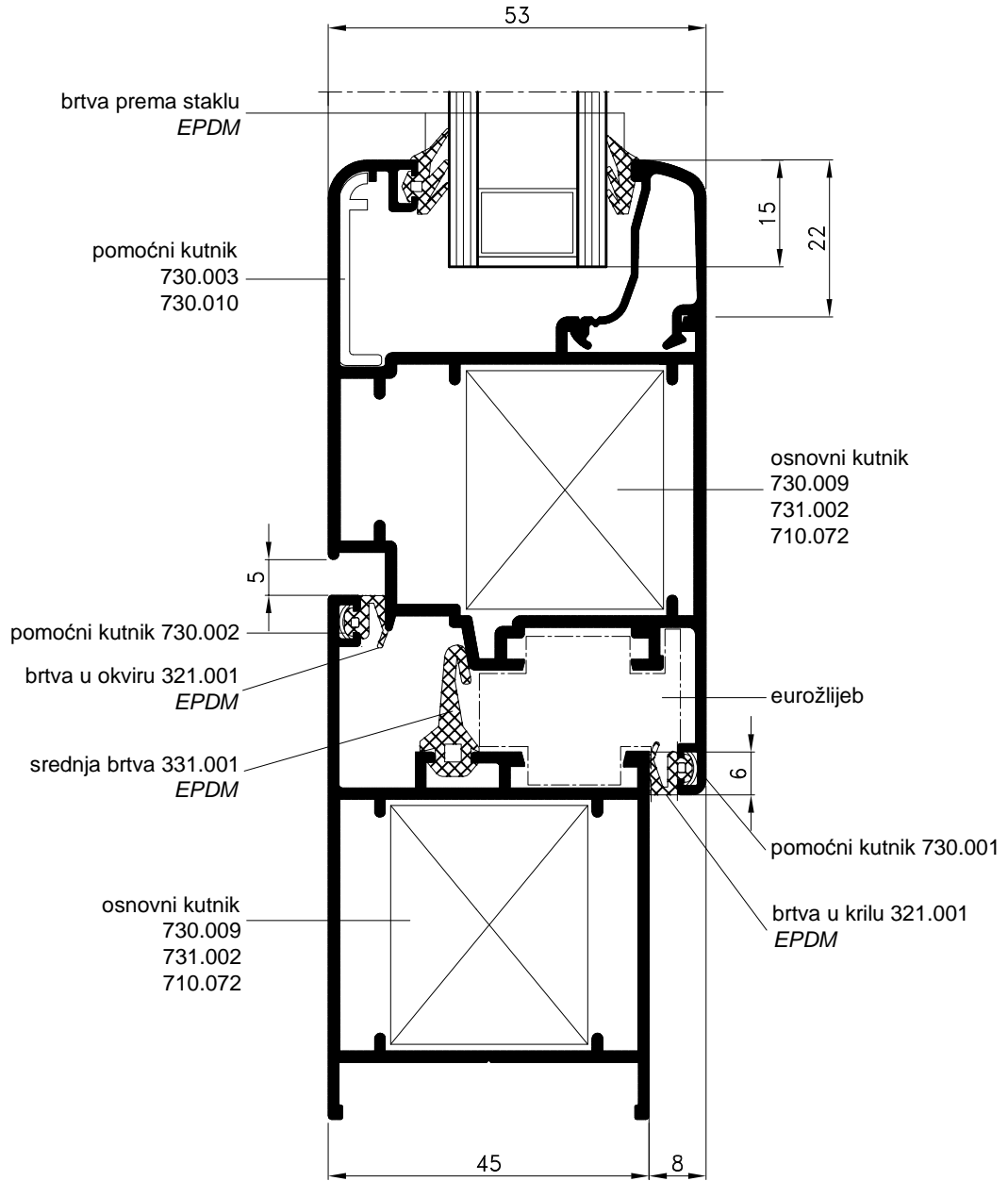


# FEAL

FEAL-poduzeće za preradu aluminija-Široki Brijeg Trn b.b.

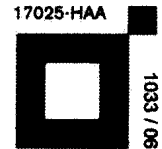


serija **45 MILL**





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 Zavod za zgradarstvo  
 Laboratorij građevinske fizike 2 29 20  
 p.p. 283, Janka Rakuše 1, HR-10000 Zagreb,  
 Tel. +385 (0)1 61 25 999  
 Fax. +385 (0)1 61 25 998, e-mail: lgf@igh.hr



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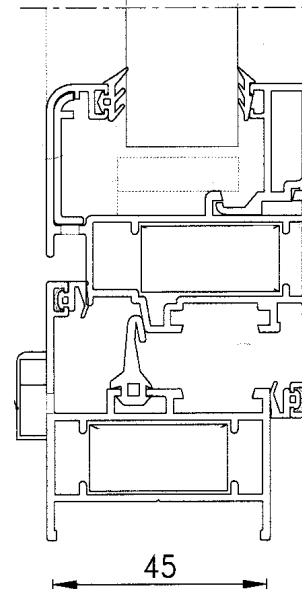
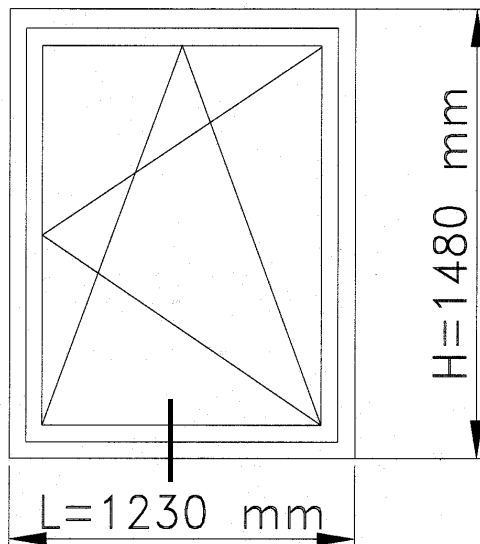
## IZVJEŠTAJ O ISPITIVANJU BR. 2920-049/08

### Opis ispitnog uzorka:

Ispitivanja zrakopropusnosti, vodonepropusnosti, otpornosti na opterećenje vjetrom i zvučne izolacije provedena su na jednokrillnom aluminijskom otklopno-zaokretnom prozoru serije 45 MILL, izmjera 1,23 m x 1,48 m. Prozor je ostakljen IZO staklom debljine 24 mm (6 mm float staklo + 14 mm zrak + 4 mm float staklo).

Upotrijebljene su brtve EPDM proizvođača COMPLATEX (Italija) i okovi proizvođača DITRIKS. Uzorak je prikazan skicom s presjecima i detaljima dostavljenim od strane naručitelja kako slijedi u nastavku:

*Staklo IZO 24mm; 1073x1323 mm, proizvođač: TERMOSTAKLO d.o.o., Široki Brijeg, BiH.*



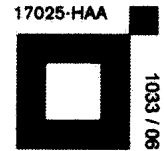
PROFILI	kom.	proizvođač
M45 – 711 vodoravnica okomita	2	FEAL
M45 – 711 okomica okvira	2	FEAL
M45 – 702 vodoravnica krila	2	FEAL
M45 – 702 okomica krila	2	FEAL
F – 0784 vodoravna lajsna	2	FEAL
F – 0784 okomita lajsna	2	FEAL
NC – 1459 klizač		

OKOVI	kom.	proizvođač
1001 kutnik krila i rama	8	DITRIKS
G112 pomoćni kutnik	8	DITRIKS
0366 pomoćni kutnik	4	DITRIKS
komplet DRY KIP mehanizam	1	NOTER
2328 maska za drenažni otvor	2	DITRIKS

BRTVE	kom.	proizvođač
Z 101 srednja brtva		COMPLATEX
Z 106 brtva na spoju profila		COMPLATEX
921 brtva prema staklu		COMPLATEX
Z111 brtva prema staklu		COMPLATEX
Z 901 kutni umetak	4	COMPLATEX



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 Tel. +385 (0)1 61 25 999  
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## A DIO: ZRAKOPROPUSNOST

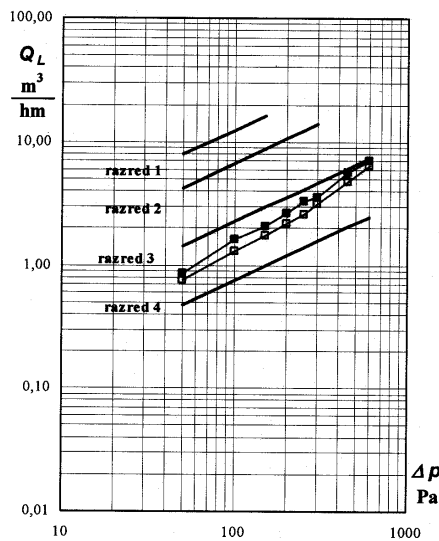
Ispitivanje uzorka, označenog kao LGF 439/07, provedeno je prema HRN EN 1026:2001, pozitivnim opterećenjem na tlak.

Ploština ispitivanog uzorka:  $A = 1,82 \text{ m}^2$ .

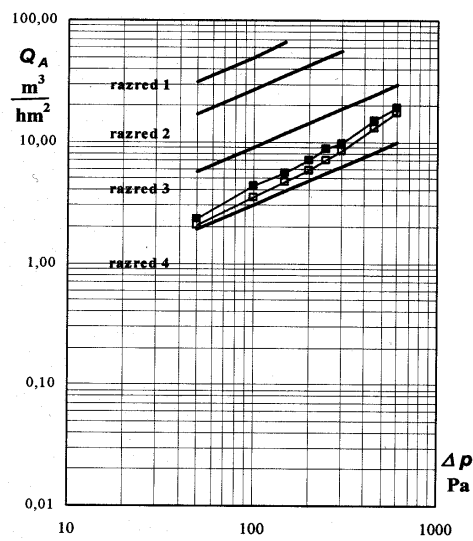
Duljina sljubnica ispitivanog uzorka:  $l = 4,92 \text{ m}$ .

Protok zraka po jedinici duljine sljubnica  $Q_L$  i po jedinici ploštine uzorka  $Q_A$ , prikazan je kao funkcija razlike tlakova, dijagramima i tablicom.

Dijagrami protoka zraka po jedinici duljine sljubnica  $Q_L$  i po jedinici ploštine prozora  $Q_A$ :



■ LGF 439/07 - prvo ispitivanje zrakopropusnosti  
 □ LGF 439/07 - ispitivanje zrakopropusnosti nakon ispitivanja otpornosti opterećenja na vjetar



■ LGF 439/07 - prvo ispitivanje zrakopropusnosti  
 □ LGF 439/07 - ispitivanje zrakopropusnosti nakon ispitivanja otpornosti opterećenja na vjetar

S obzirom na **zrakopropusnost**, ispitani jednokrilni aluminijski otklopno-zaokretni prozor serije 45 MILL (laboratorijske oznake LGF 439/07), proizvođača FEAL d.o.o., može se svrstati u **razred 3**, prema HRN EN 12207:2001



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## B DIO: VODONEPROPUSNOST

TLAK $\Delta p$ (Pa)	VRIJEME $\tau$ (min)	LGF 439/07	RAZRED (HRN EN 12208:2001)
0	15	+	1 A
50	5	+	2 A
100	5	+	3 A
150	5	+	4 A
200	5	+	5 A
250	5	+	6 A
300	5	+	7 A
450	5	+	8 A
600	5	+	9 A

+ ..... Znači da nije došlo do propuštanja vode.

∇ ..... Znači da je došlo do propuštanja vode.

S obzirom na **vodonepropusnost**, ispitani jednokrlni aluminijski otklopno-zaokretni prozor serije 45 MILL (laboratorijska oznaka uzorka LGF 439/07), proizvođača FEAL d.o.o., može se svrstati u **razred 9A**, u skladu s HRN EN 12208:2001.

## C DIO: OTPORNOST NA OPTEREĆENJE VJETROM

### REZULTATI ISPITIVANJA ČEONOG SAVIJANJA

Ispitivanje je provedeno na gornjem vodoravnom dijelu krila jednokrlnog aluminijskog otklopno-zaokretnog prozora serije 45 MILL gdje postoji najveći razmak između dva susjedna učvršćenja prozorskog krila za doprozornik.

**B** – mjesto na sredini između A i C mjesta (oznaka na crtežu),

**A** – mjesto u gornjem lijevom kutu vodoravnog prozorskog profila krila gdje se nalaze okovi za učvršćenje prozorskog krila za doprozornik (oznaka na crtežu),

**C** – mjesto na gornjem dijelu prozorskog profila krila gdje se nalaze okovi za učvršćenje prozorskog krila za doprozornik (oznaka na crtežu),

**A<sub>0</sub>, B<sub>0</sub>, C<sub>0</sub>**, – početno stanje s obzirom na pomak - ugođeno tako da pokazuje 0 mm pri  $\Delta p = 0$  (Pa),

**A<sub>P</sub>** – čeonu pomak na mjernom mjestu A pri iskazanoj razlici tlakova P1,

**B<sub>P</sub>** – čeonu pomak na mjernom mjestu B pri iskazanoj razlici tlakova P1,

**C<sub>P</sub>** – čeonu pomak na mjernom mjestu C pri iskazanoj razlici tlakova P1,

**F<sub>P</sub>** =  $(B_P) - ((A_P) + (C_P))/2$  - čeonu savijanje,

**L** = 0,80 m - razmak između točaka A i C,

**F<sub>rp</sub>** =  $F_P / L$  - relativno čeonu savijanje.



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 Tel. +385 (0)1 61 25 999  
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TLAK $\Delta p$ (Pa)	LGF 439/07					TLAK $\Delta p$ (Pa)	LGF 439/07				
	$A_P$ (mm)	$B_P$ (mm)	$C_P$ (mm)	$F_P$ (mm)	$F_{rp}$ ( $\times 10^{-4}$ )		$A_P$ (mm)	$B_P$ (mm)	$C_P$ (mm)	$F_P$ (mm)	$F_{rp}$ ( $\times 10^{-4}$ )
100	-0,1	-0,1	0,0	-0,05	-0,63	-100	0,1	0,1	0,0	0,05	0,63
200	-0,1	-0,2	-0,1	-0,10	-1,25	-200	0,1	0,1	0,0	0,05	0,63
300	-0,2	-0,2	-0,1	-0,05	-0,63	-300	0,1	0,2	0,1	0,10	1,25
400	-0,2	-0,3	-0,1	-0,15	-1,88	-400	0,2	0,2	0,1	0,05	0,63
500	-0,1	-0,3	-0,2	-0,18	-2,19	-500	0,2	0,3	0,1	0,15	1,88
600	-0,2	-0,3	-0,3	-0,08	-0,94	-600	0,2	0,3	0,2	0,10	1,25
700	-0,2	-0,4	-0,4	-0,13	-1,56	-700	0,3	0,4	0,2	0,15	1,88
800	-0,2	-0,5	-0,4	-0,23	-2,81	-800	0,3	0,4	0,2	0,15	1,88
900	-0,2	-0,5	-0,3	-0,25	-3,13	-900	0,3	0,6	0,3	0,30	3,75
1000	-0,2	-0,5	-0,3	-0,25	-3,13	-1000	0,3	0,6	0,4	0,25	3,13
1100	-0,2	-0,6	-0,4	-0,30	-3,75	-1100	0,3	0,7	0,4	0,35	4,38
1200	-0,2	-0,7	-0,4	-0,40	-5,00	-1200	0,4	0,7	0,5	0,25	3,13

Obzirom na **relativno čeono savijanje**, ispitani jednokrlni aluminijski otklopno-zaokretni prozor serije 45 MILL (laboratorijska oznaka uzorka LGF 439/07), proizvođača FEAL d.o.o., prema HRN EN 12210:2001, može se svrstati u **razred C** ( $F_{rp} < 1/300$ ), budući da je maksimalno relativno čeono savijanje iznosilo 1/2000.

## REZULTATI ISPITIVANJA OTPORNOSTI S PROMJENJIVIM TLAKOM P2

Ispitivanje je provedeno s 50 impulsa promjenjivog tlaka P2 od  $\pm 600$  Pa, a iznosi polovicu maksimalnog tlaka P1.

Nakon provedenog opterećenja na ispitanom jednokrlnom aluminijskom otklopno-zaokretnom prozoru serije 45 MILL (laboratorijska oznaka uzorka LGF 439/07), proizvođača FEAL d.o.o., nije bilo vidljivih oštećenja niti promjena na cijelom uzorku, kao niti promjena u funkcionalnosti ili oštećenja otvarajućeg dijela.

## REZULTATI SIGURNOSNOG ISPITIVANJA

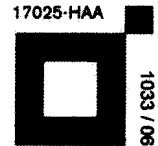
Ispitivanje sigurnosti je provedeno s jednim impulsom od  $-1800$  Pa i s jednim impulsom od  $+1800$  Pa.

Nakon provedenog opterećenja na ispitanom jednokrlnom aluminijskom otklopno-zaokretnom prozoru serije 45 MILL (laboratorijska oznaka uzorka LGF 439/07), proizvođača FEAL d.o.o., nije bilo vidljivih napuknuća na bilo kojem dijelu uzorka (staklo, okvir i okovi), niti je došlo do otvaranja otvarajućeg dijela.

S obzirom na **ispitivanje otpornosti na opterećenje vjetrom** i ponovljeno ispitivanje zrakopropusnosti (A dio izvještaja) nakon ispitivanja otpornosti na opterećenje vjetrom, koje pokazuje da nije došlo do povećanja vrijednosti od 20 % u odnosu na prvo ispitivanje zrakopropusnosti, ispitani jednokrlni aluminijski otklopno-zaokretni prozor serije 45 MILL (laboratorijska oznaka uzorka LGF 439/07), proizvođača FEAL d.o.o., prema HRN EN 12210:2001 može se svrstati u **razred C 3**.



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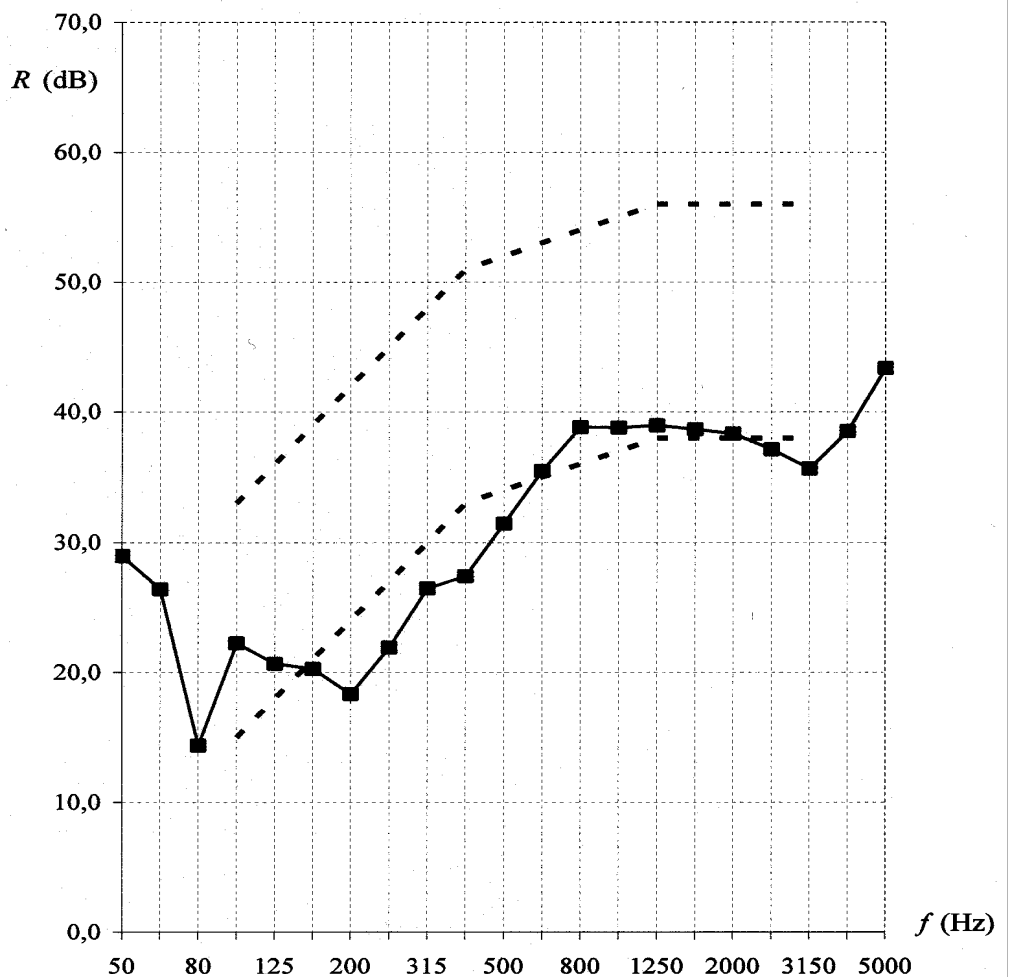
## D DIO: ZVUČNA IZOLACIJA

### Rezultati ispitivanja:

Indeks zvučne izolacije ( $R$ ) ispitivanog uzorka prikazan je kao funkcija frekvencije tablicom i dijagramom. Pri iskazivanju rezultata ispitivanja rabljene su sljedeće oznake:

- $f$  - središnja frekvencija terca (Hz),
- $R$  - indeks zvučne izolacije (dB),
- $R_W$  - vrednovani indeks zvučne izolacije (dB).

Frekvencija $f$ (Hz)	Terca $R$ (dB)
50	28,9
63	26,4
80	14,4
100	22,2
125	20,7
160	20,3
200	18,3
250	21,9
315	26,5
400	27,4
500	31,4
630	35,5
800	38,8
1000	38,8
1250	39,0
1600	38,7
2000	38,3
2500	37,1
3150	35,7
4000	38,5
5000	43,4



Vrednovanje prema HRN EN ISO 717-1:1998:  $R_W (C; C_{tr}; C_{50-5000}; C_{tr,50-5000}) = 34 (-2; -5; -1; -6)$  dB.

Voditelji ispitivanja:

*Tomislav Vuić*

za A, B i C dio ispitivanja: Tomislav Vuić, dipl. ing. sig.

*Maro Puljizević*

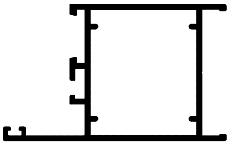
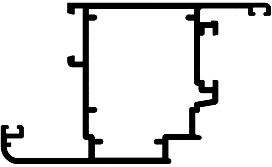
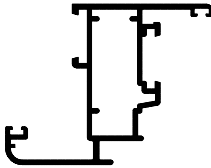
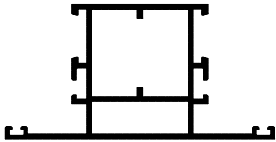
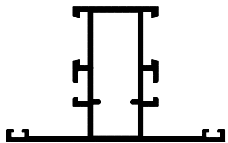
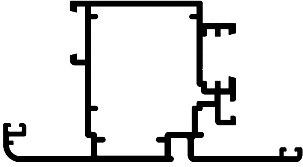
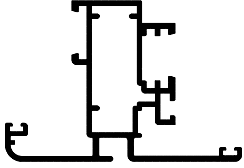
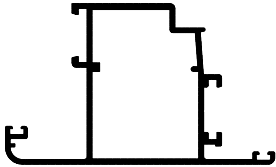
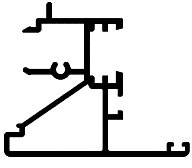
za D dio ispitivanja: Maro Puljizević dipl. ing. građ.

Voditelj laboratorija:


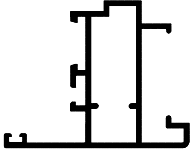
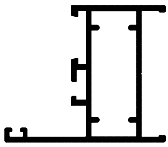
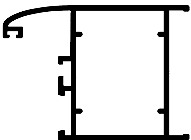
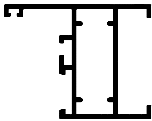
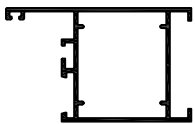
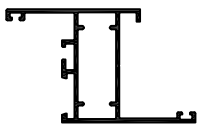
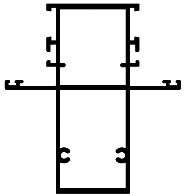

*dr. sc. Ivica Kušević*



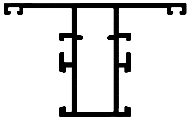
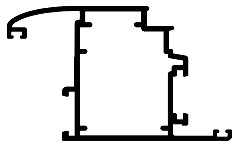
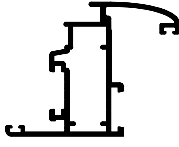
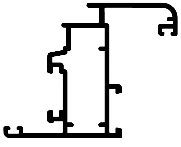
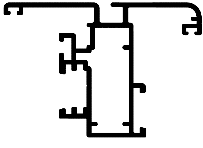

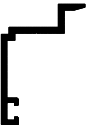
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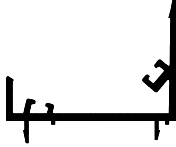

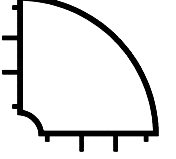



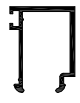
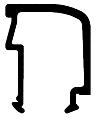





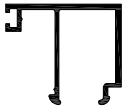

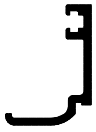




Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
M45-700		1.036	316		
M45-701		1.305	403		
M45-702		0.997	369		
M45-703		1.223	387		
M45-704		0.995	353		
M45-705		1.522	503		
M45-706		1.261	469		
M45-707		1.261	396		
M45-708		0.977	395		










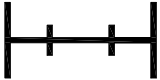





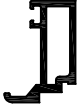


Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
M45-709		0.258	153		
M45-710		0.933	330		
M45-711		0.817	275		
M45-712		1.139	348		
M45-713		0.805	309		
M45-714		0.939	330		
M45-715		0.870	339		
M45-721		2.150	515		
M45-722		1.950	512		

Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
M45-723		1.869	489		
M45-724		3.084	628		
M45-725		0.899	355		
M45-730		1.290	394		
M45-731		1.005	360		
M45-732		0.938	372		
M45-733		1.150	474		
M45-740		0.258	148		
M45-751		0.234	122		

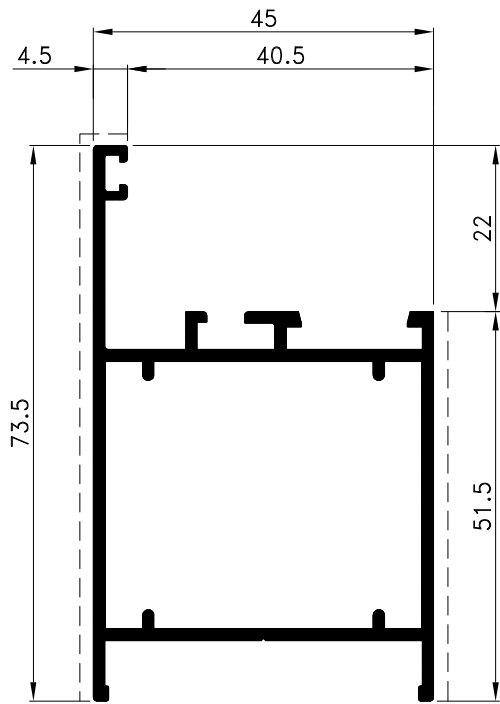
Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
M45-752		0.510	242		
M45-753		0.274	153		
M45-754		0.932	248		
M45-755		0.274	148		
M45-756		0.225	132		
Z40-636		0.261	141		
Z40-644		0.275	166		
Z40-646		0.286	157		
Z40-647		0.226	137		

Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
Z40-648		0.268	125		
Z40-649		0.221	105		
Z40-653		0.348	201		
Z40-653/B		0.356	197		
Z40-656		0.215	107		
Z40-657		0.186	73		
Z40-658		0.318	184		
Z40-659		0.359	204		
Z40-660		0.179	89		

Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
Z40-661		0.314	146		
Z40-662		0.245	116		
Z40-665		0.272	112		
Z40-666		0.289	122		
Z40-667		0.358	139		
Z40-668		0.326	135		
Z40-669		0.347	143		

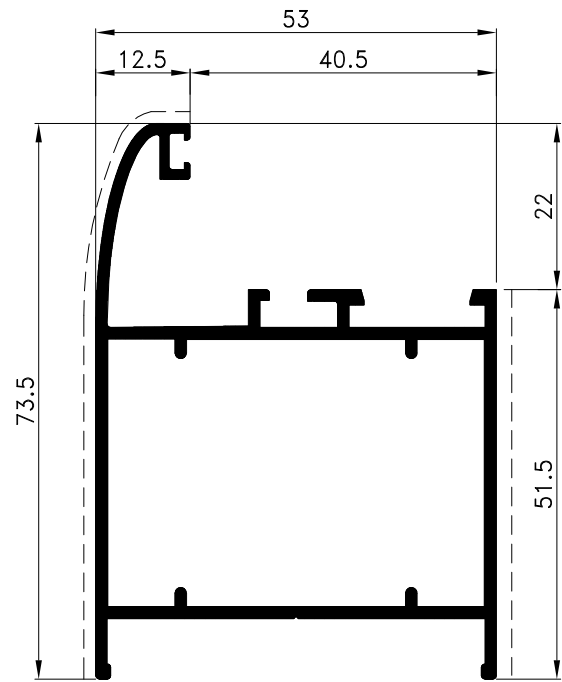
Oznaka	Izgled-presjek	Težina /kg/ml/	Opseg /mm/	Ix /cm <sup>4</sup> /	Wx /cm <sup>3</sup> /
P45-643		0.342	184		
P45-644		0.323	153		
P45-648		0.257	140		
F-0228		0.153	68		
F-0681		0.920	304		
F-0714		0.895	294		
F-0784		0.33	105		
060 353		0.825	225		
060 350		0.285	107		





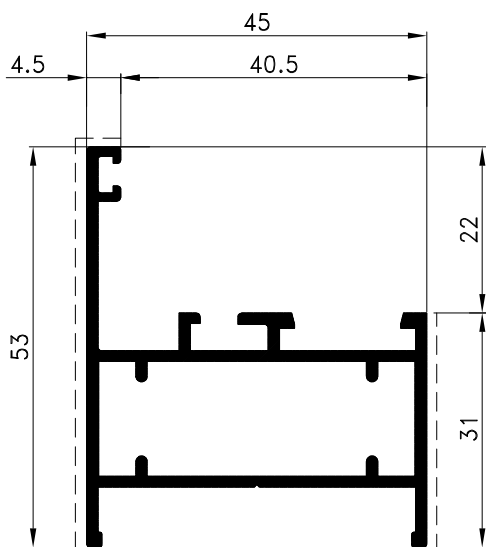
**M45-700**

težina: kg/ml 1.037  
svj.povr. mm 130



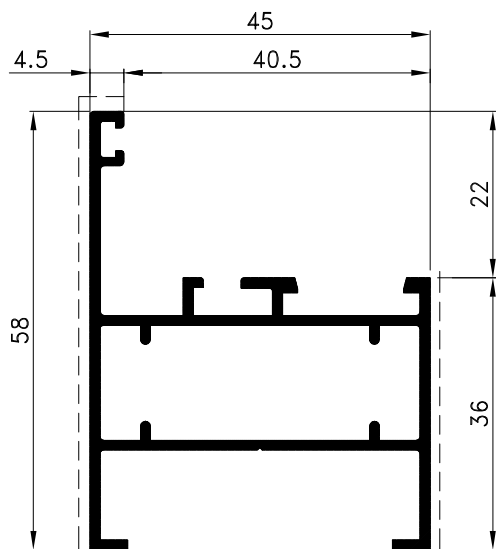
**M45-712**

težina: kg/ml 1.139  
svj.povr. mm 134



**M45-711**

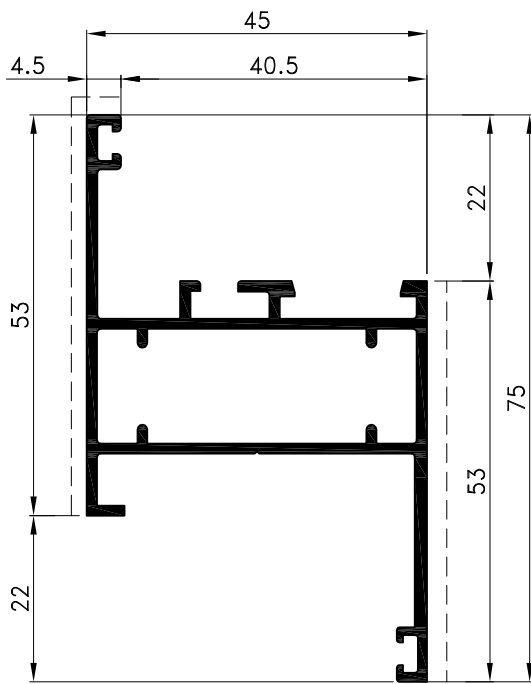
težina: kg/ml 0.817  
svj.povr. mm 89



**M45-713**

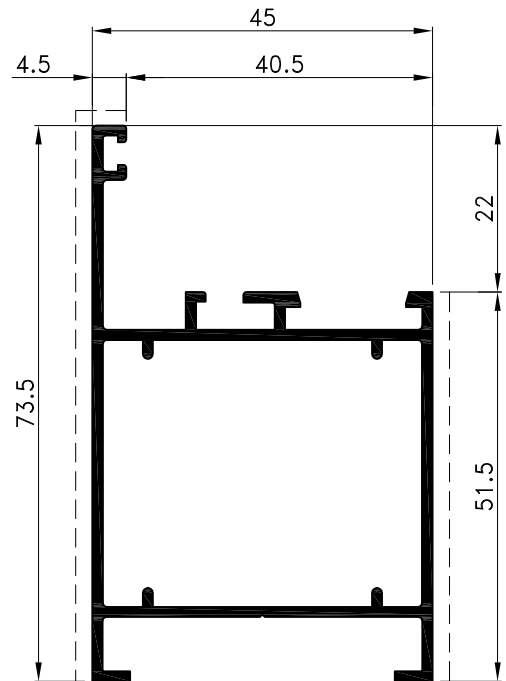
težina: kg/ml 0.805  
svj.povr. mm 98





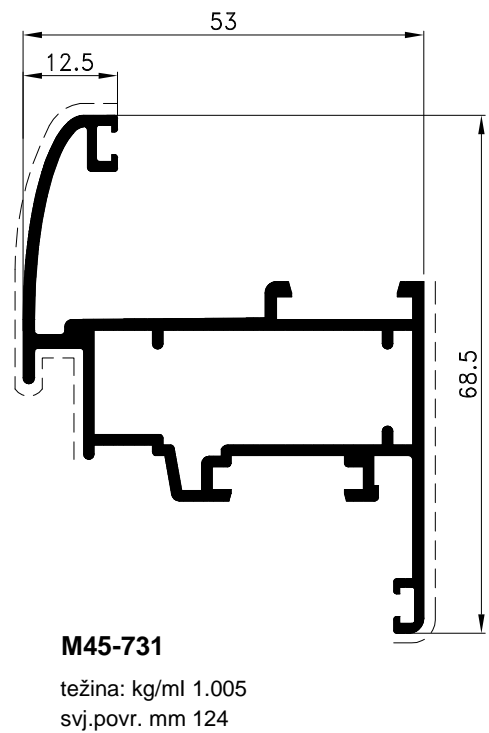
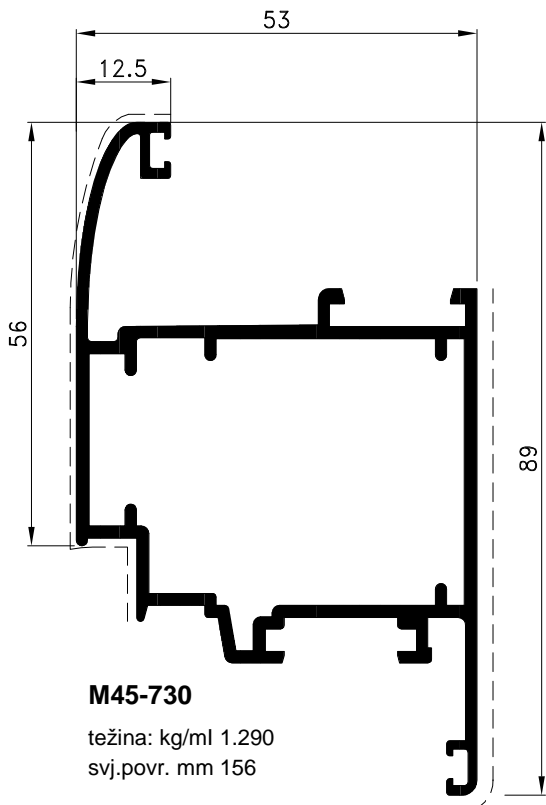
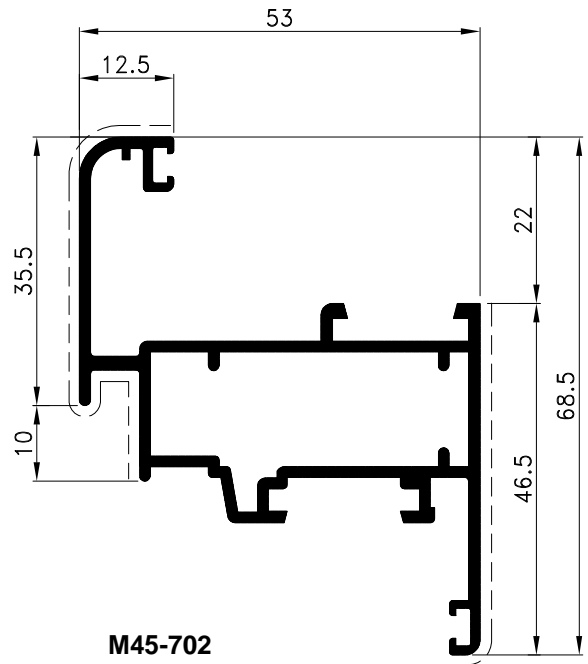
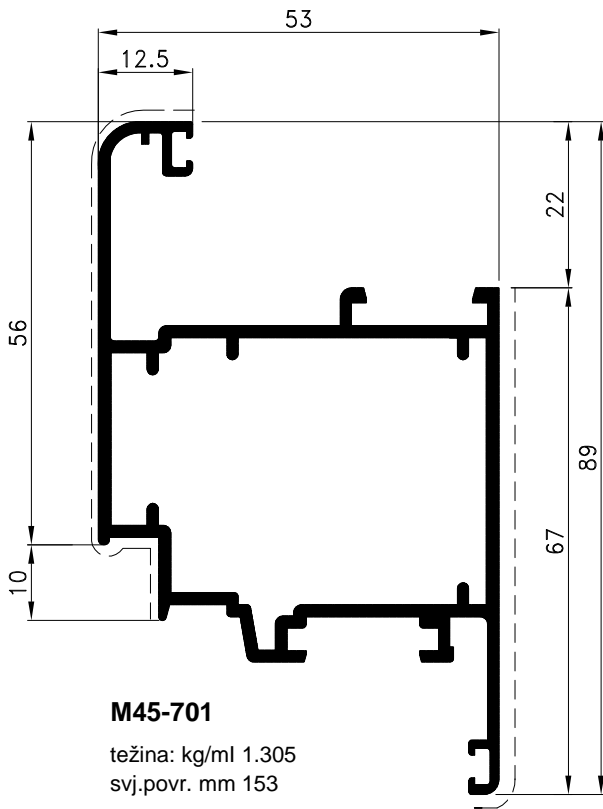
**M45-715**

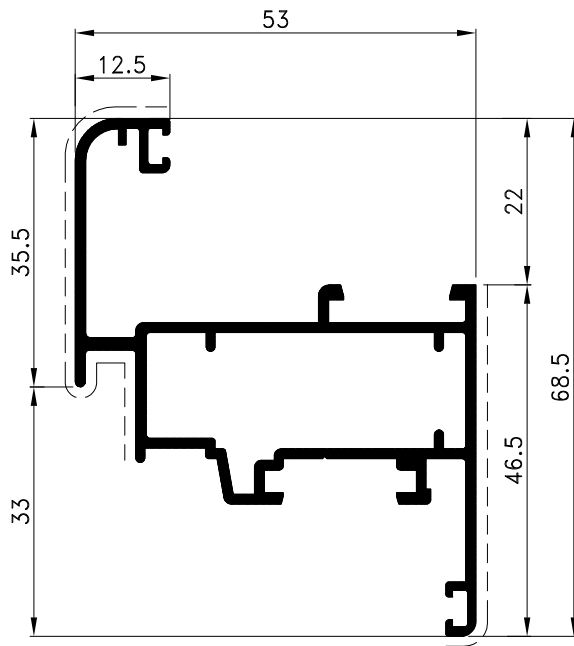
težina: kg/ml 0.87  
svj.povr. mm 110



**M45-714**

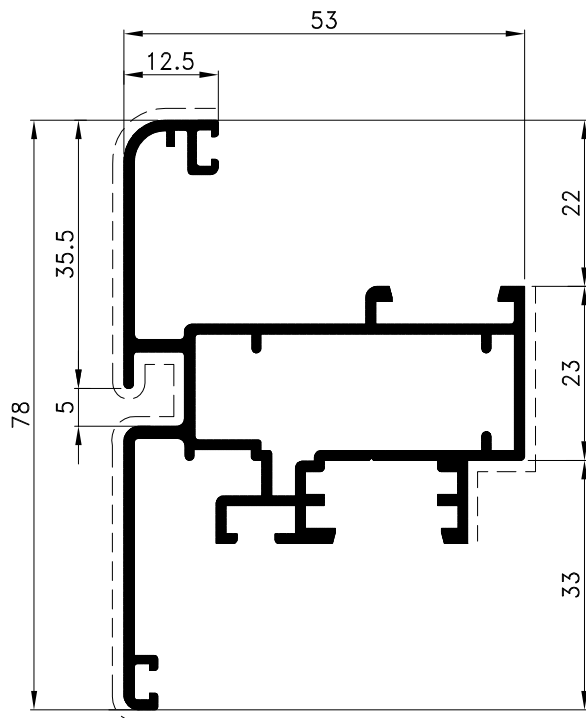
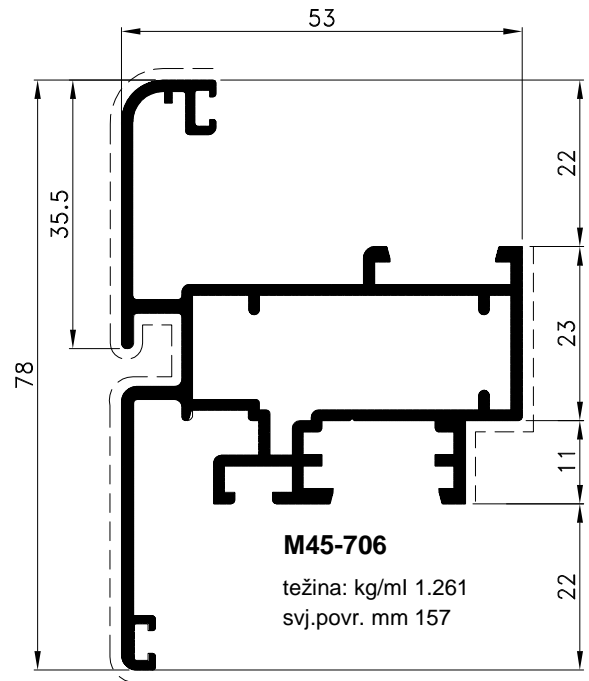
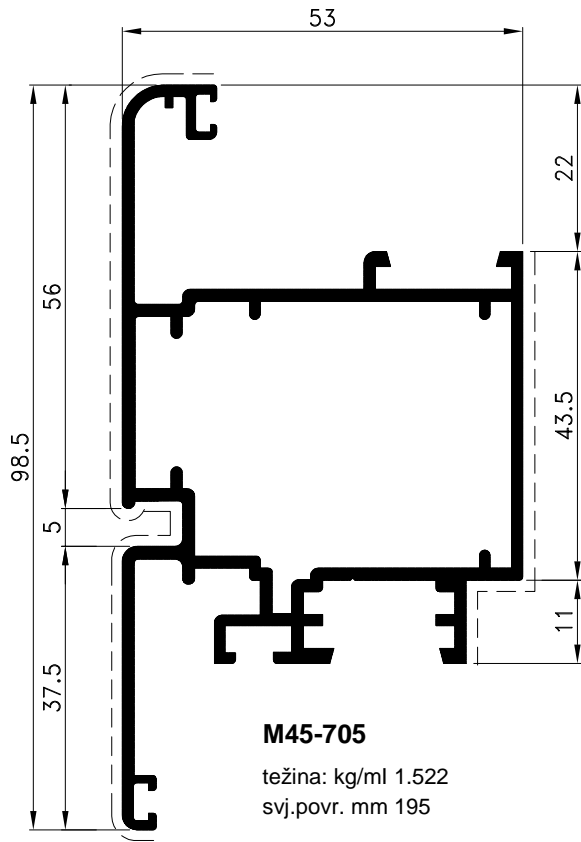
težina: kg/ml 0.939  
svj.povr. mm 120

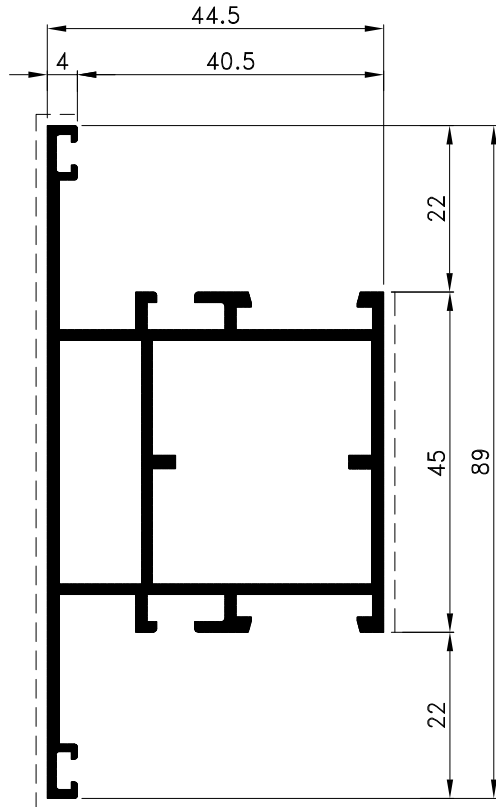




**M45-732**

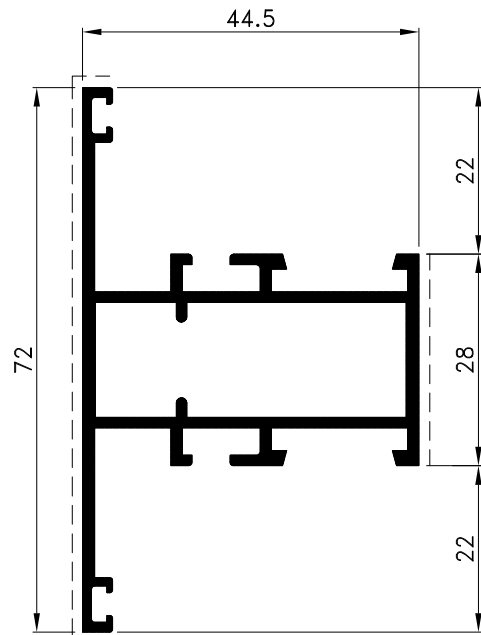
težina: kg/ml 0.938  
svj.povr. mm 121





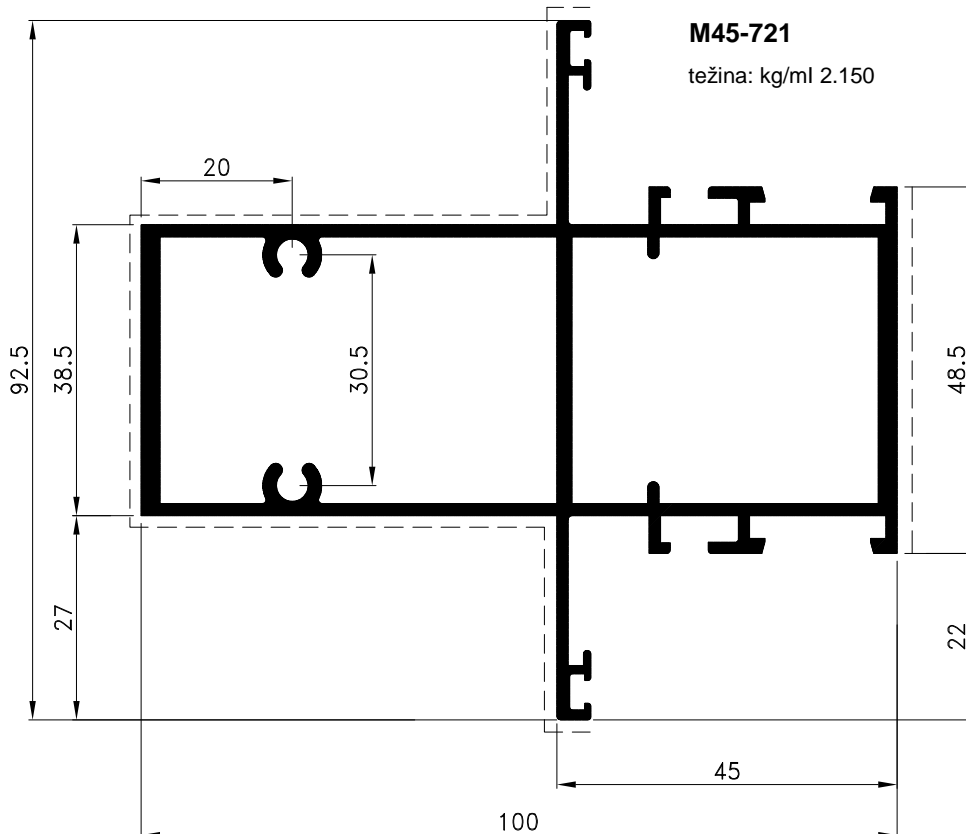
**M45-703**

težina: kg/ml 1.223  
svj.povr. mm 142



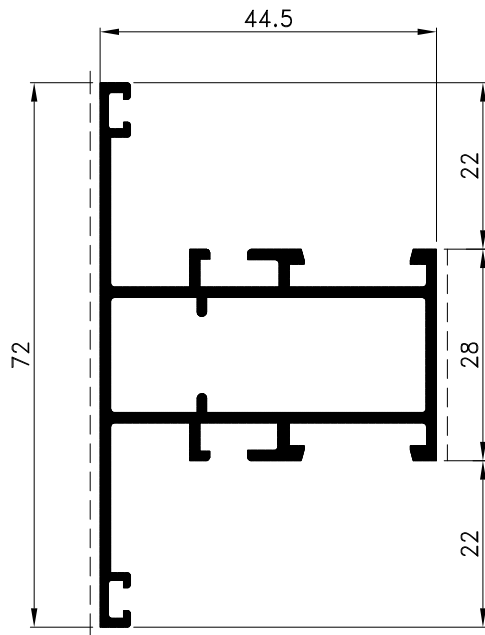
**M45-704**

težina: kg/ml 0.995  
svj.povr. mm 108



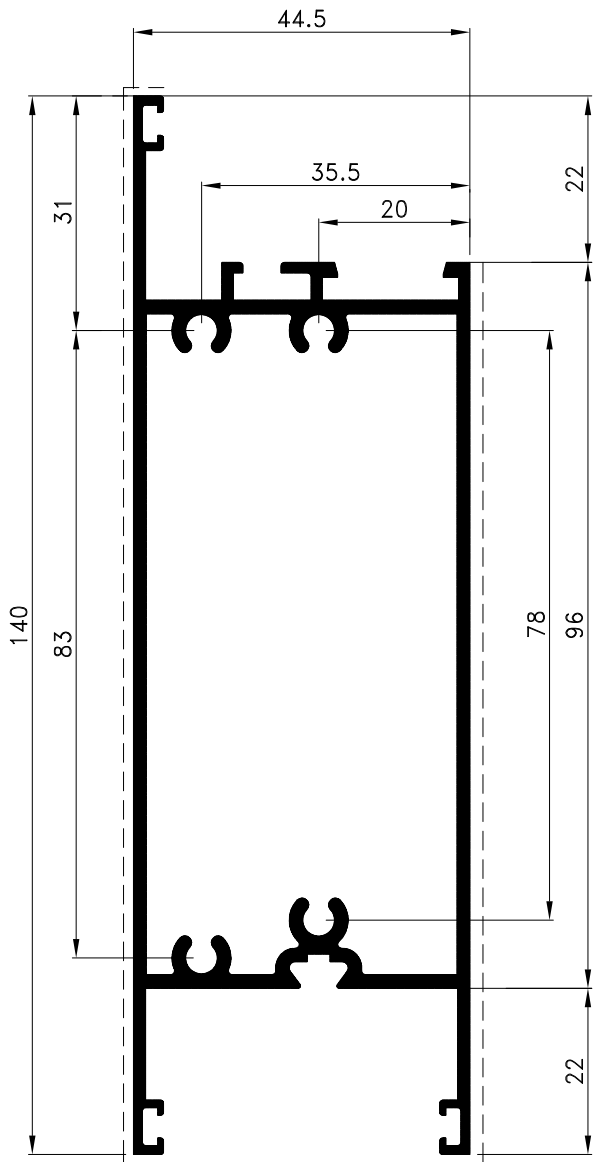
**M45-721**

težina: kg/ml 2.150

**M45-725**

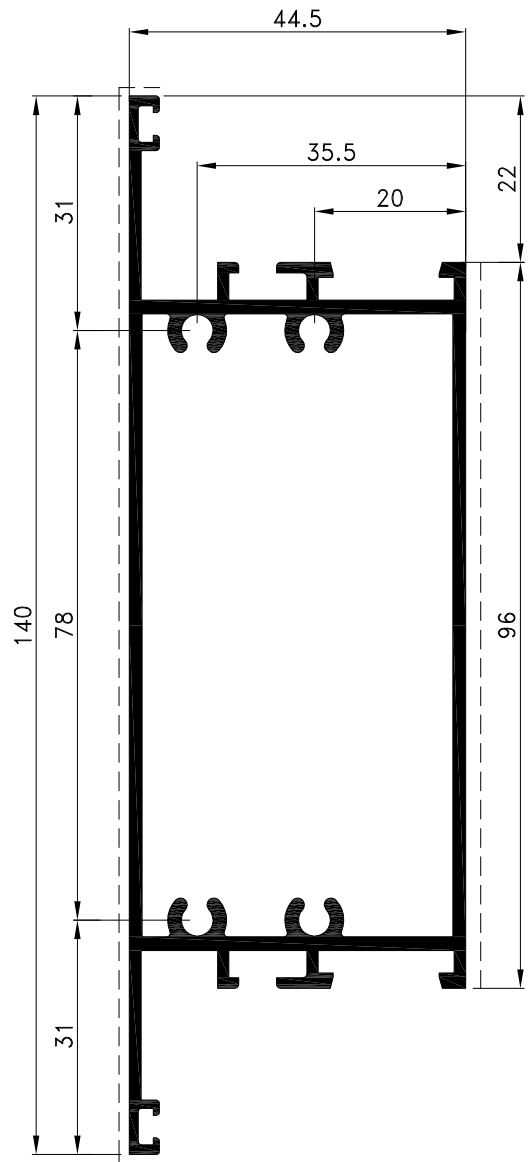
težina: kg/ml 0.899

svj.povr. mm 108



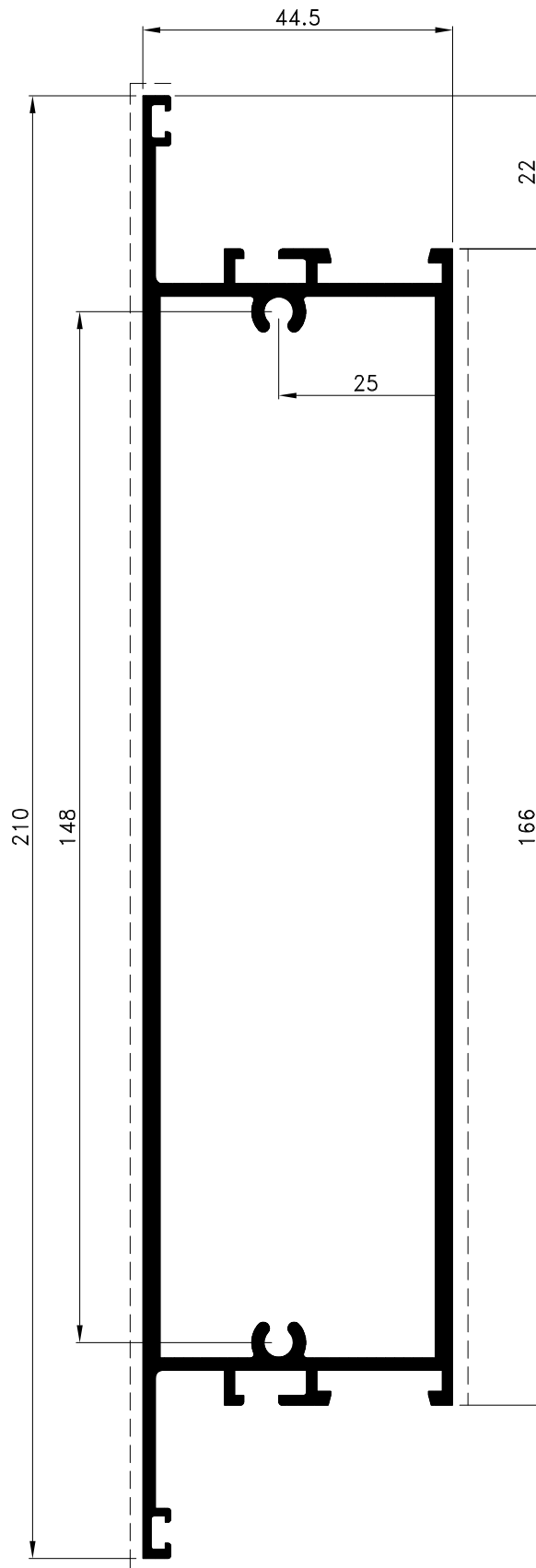
**M45-722**

težina: kg/ml 1.950  
svj.povr. mm 270



**M45-723**

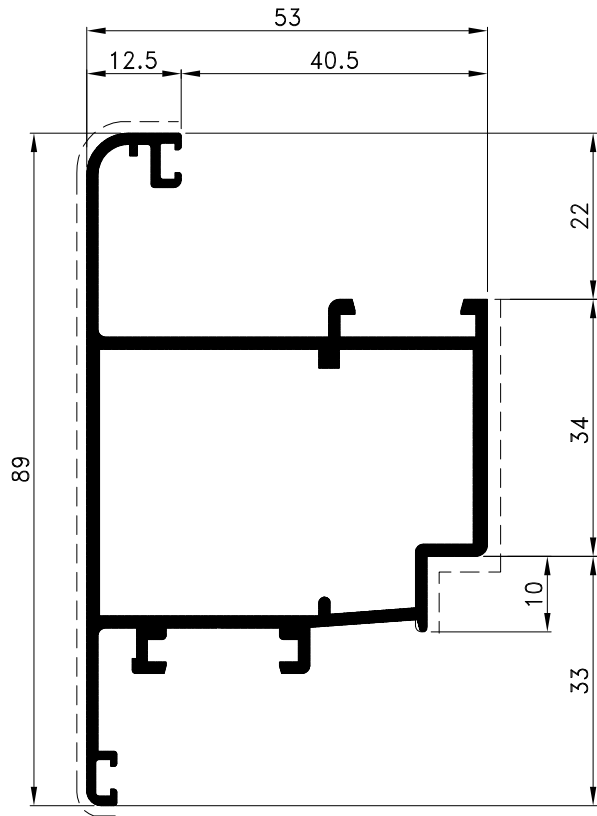
težina: kg/ml 1.869  
svj.povr. mm 244



**M45-724**

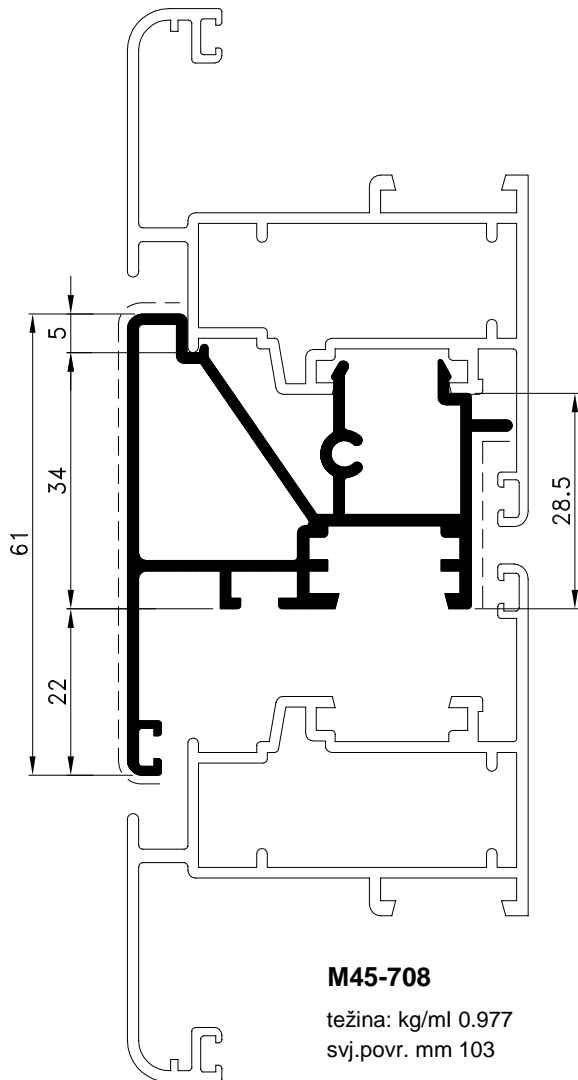
težina: kg/ml 3.084  
svj.povr. mm 384





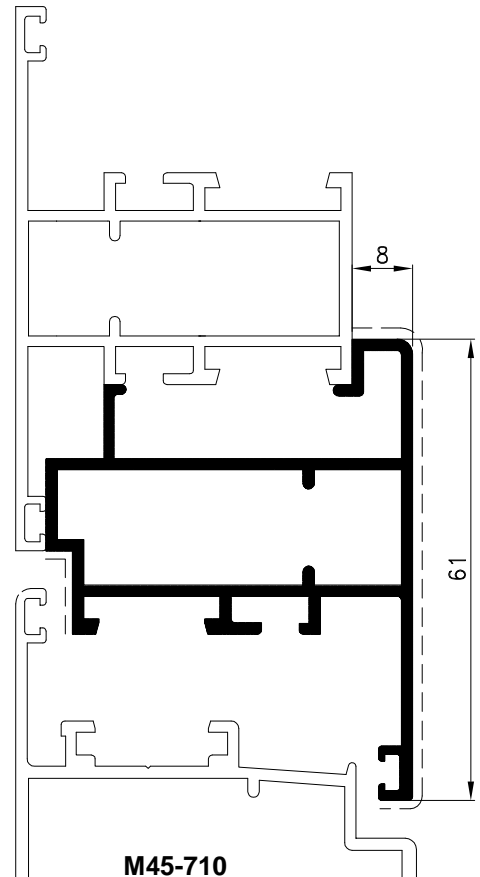
**M45-707**

težina: kg/ml 1.261  
svj.povr. mm 158



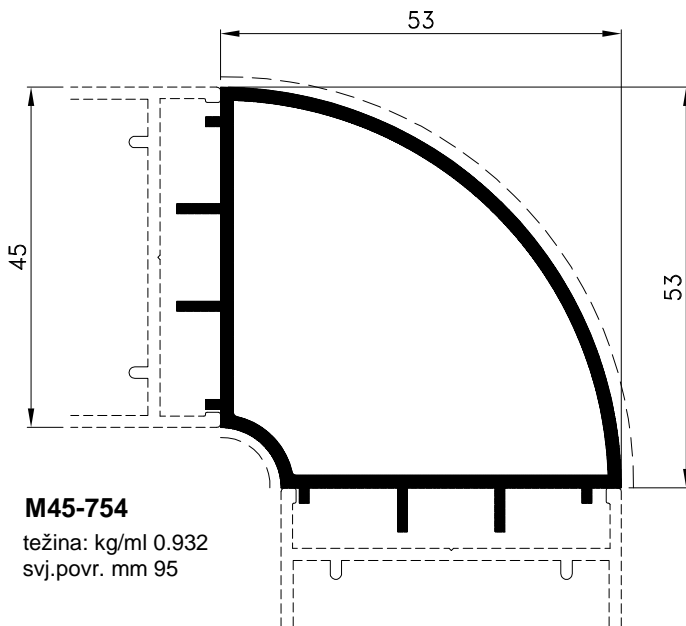
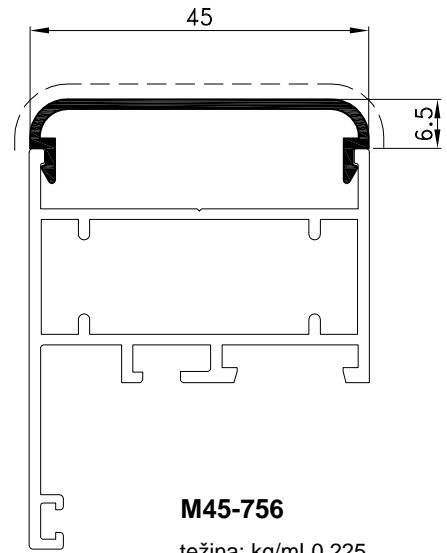
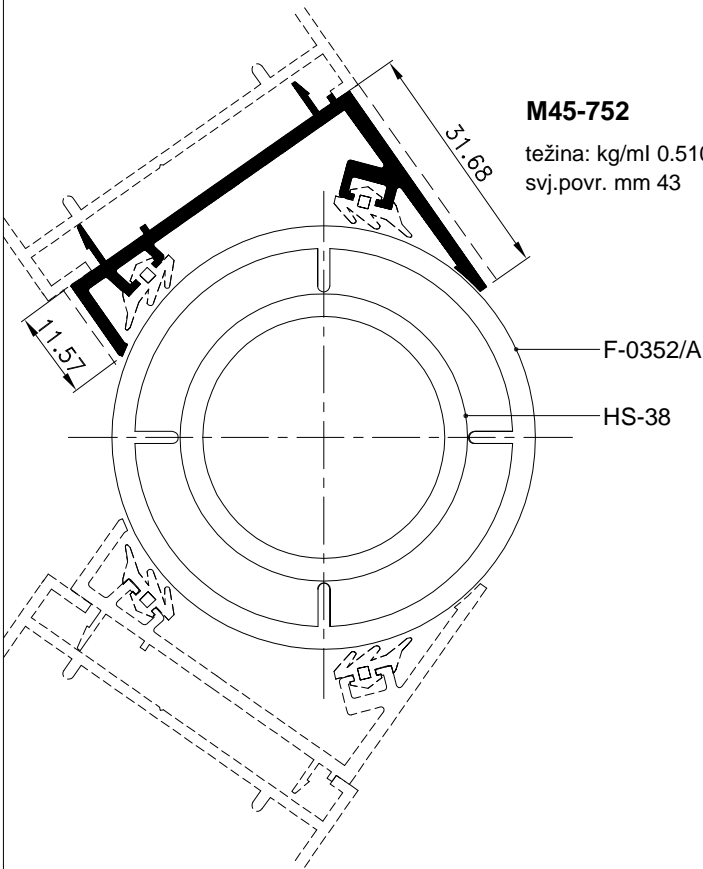
**M45-708**

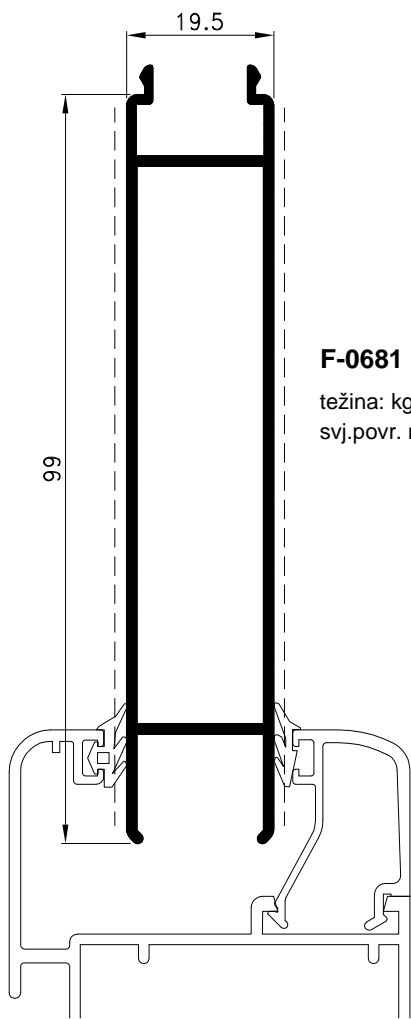
težina: kg/ml 0.977  
svj.povr. mm 103



**M45-710**

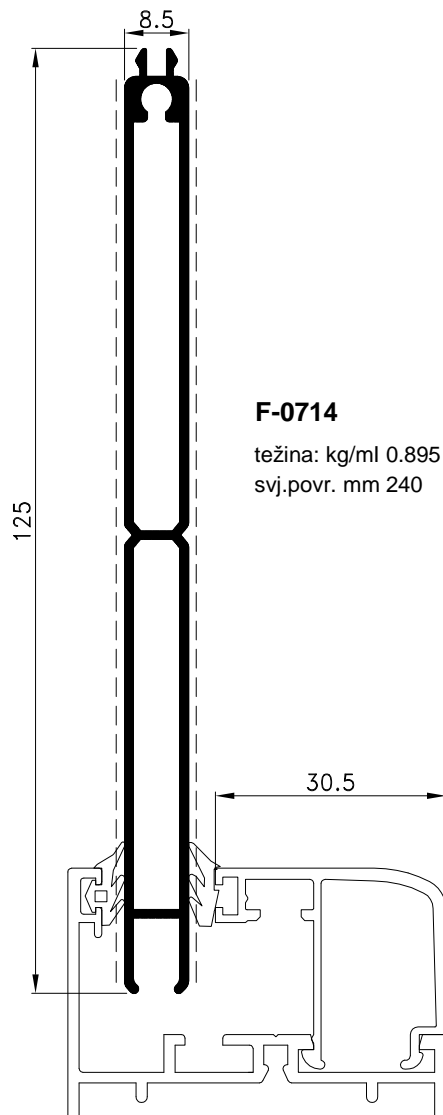
težina: kg/ml 0.933  
svj.povr. mm 88





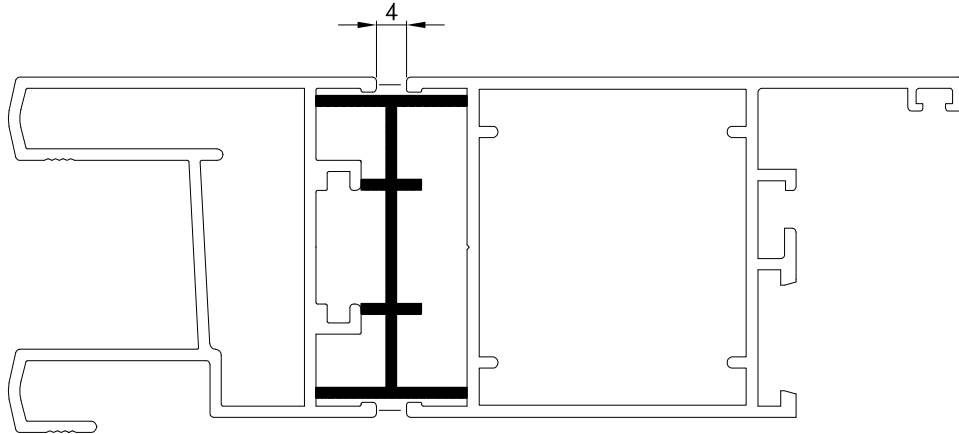
**F-0681**

težina: kg/ml 0.920  
svj.povr. mm 195

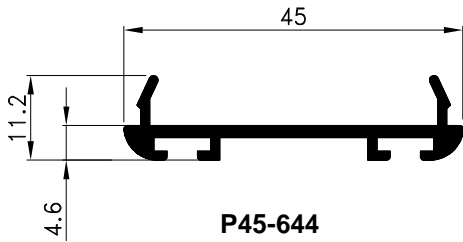


**F-0714**

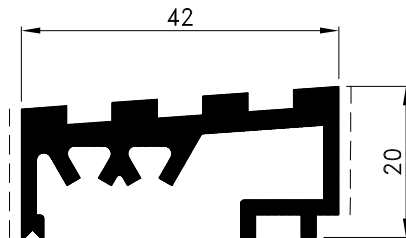
težina: kg/ml 0.895  
svj.povr. mm 240



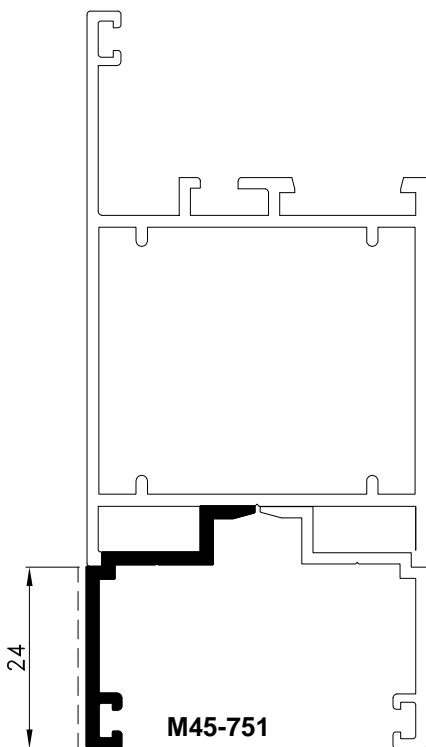
**P45-643**  
 težiina: kg/ml 0.342  
 svj.povr. mm 8



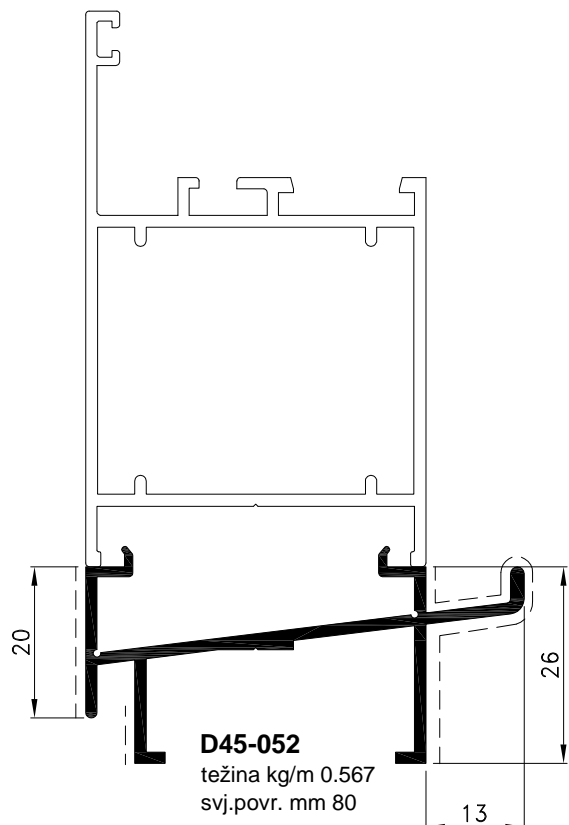
**P45-644**  
 težiina: kg/ml 0.323  
 svj.povr. mm



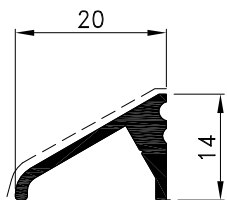
**060 353**  
 težiina: kg/ml 0.825  
 svj.povr. mm 34



**M45-751**  
 težiina: kg/ml 0.234  
 svj.povr. mm 24

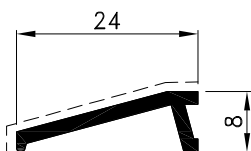


**D45-052**  
 težiina kg/m 0.567  
 svj.povr. mm 80



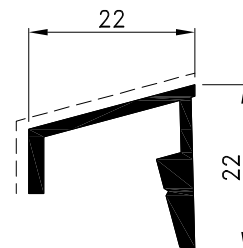
**Z40-657**

težina: kg/ml 0.186  
svj.povr. mm 23



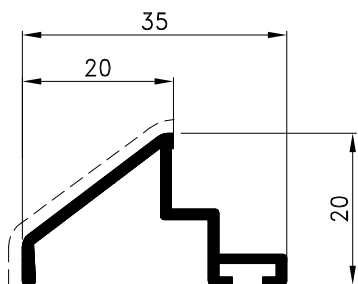
**F-0228**

težina: kg/ml 0.153  
svj.povr. mm 27



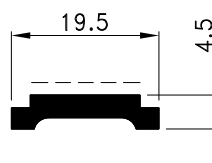
**060 350**

težina: kg/ml 0.285  
svj.povr. mm 31



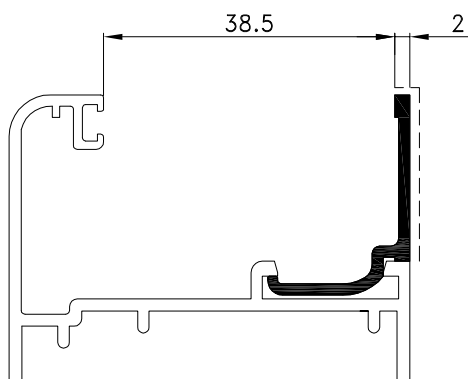
**P45-648**

težina: kg/ml 0.257  
svj.povr. mm 33



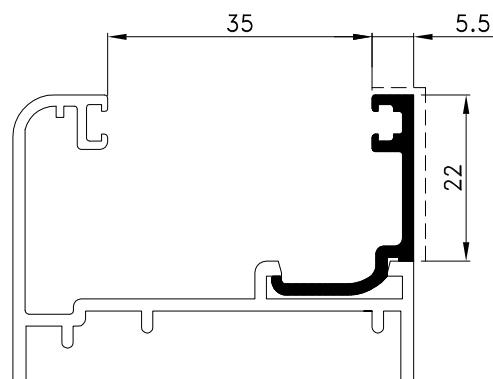
**NC-1459**

težina: kg/ml 0.156  
svj.povr. mm 15



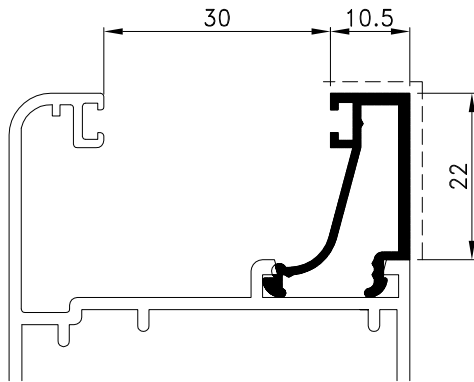
**Z40-660**

težina: kg/ml 0.179  
svj.povr. mm 24



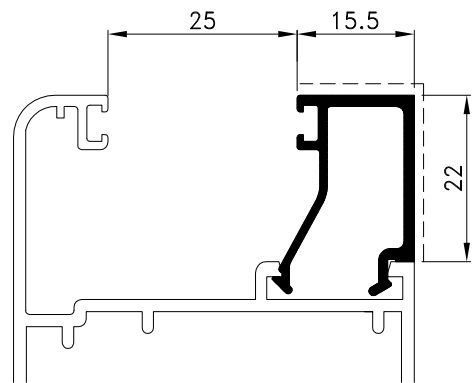
**Z40-656**

težina: kg/ml 0.215  
svj.povr. mm 27



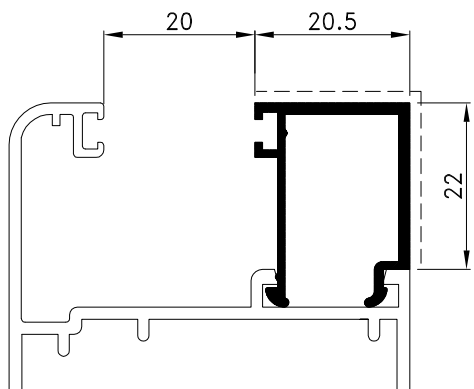
**Z40-636**

težina: kg/ml 0.261  
svj.povr. mm 32



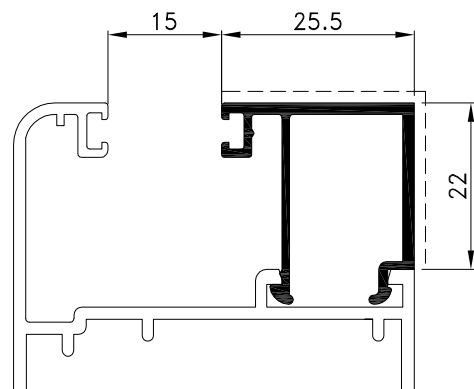
**M45-709**

težina: kg/ml 0.258  
svj.povr. mm 37



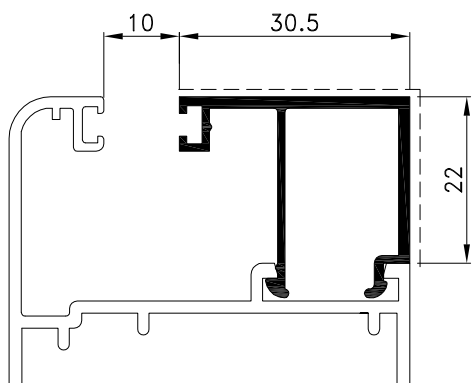
**Z40-644**

težina: kg/ml 0.275  
svj.povr. mm 42



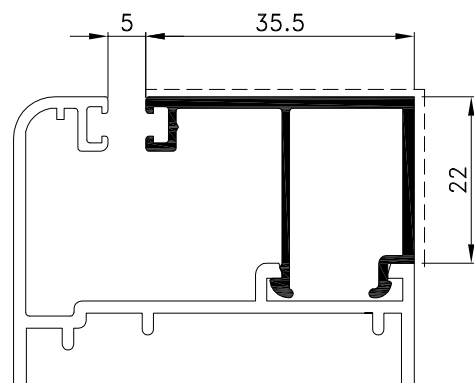
**Z40-658**

težina: kg/ml 0.318  
svj.povr. mm 47



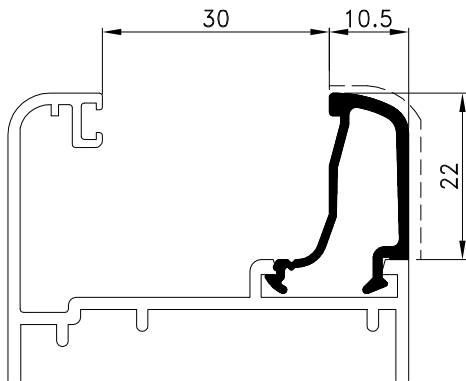
**Z40-653**

težina: kg/ml 0.347  
svj.povr. mm 52



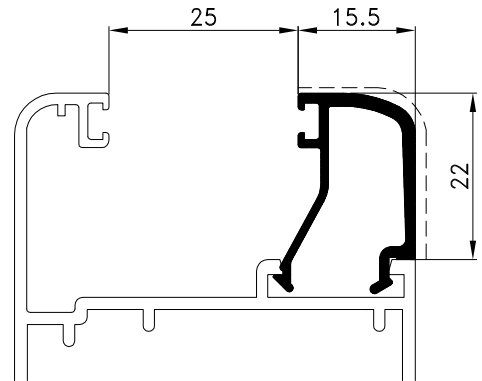
**Z40-659**

težina: kg/ml 0.359  
svj.povr. mm 57



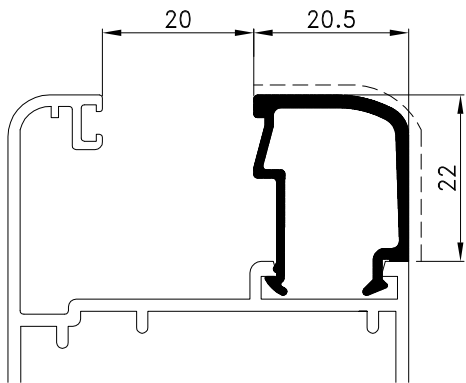
**Z40-647**

težina: kg/ml 0.226  
svj.povr. mm 30



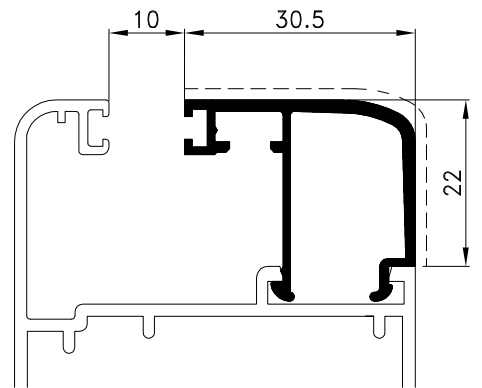
**M45-740**

težina: kg/ml 0.258  
svj.povr. mm 35



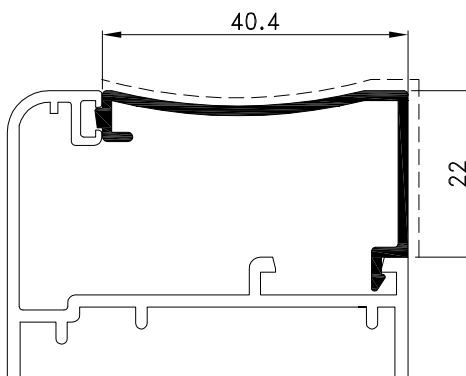
**Z40-646**

težina: kg/ml 0.286  
svj.povr. mm 40



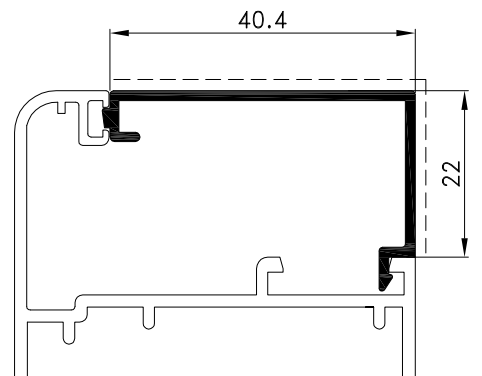
**Z40-653/B**

težina: kg/ml 0.356  
svj.povr. mm 53



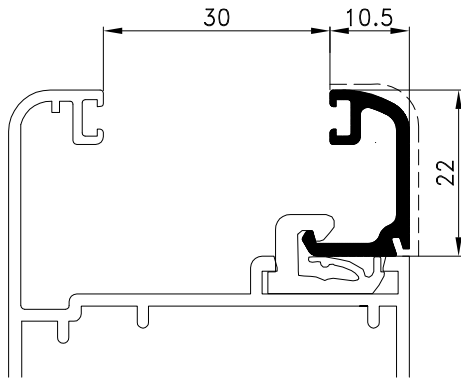
**M45-755**

težina: kg/ml 0.274  
svj.povr. mm 64



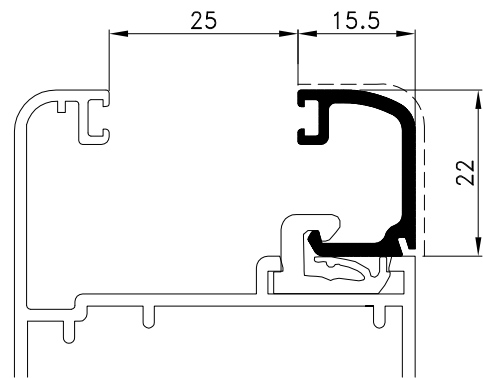
**M45-753**

težina: kg/ml 0.274  
svj.povr. mm 63



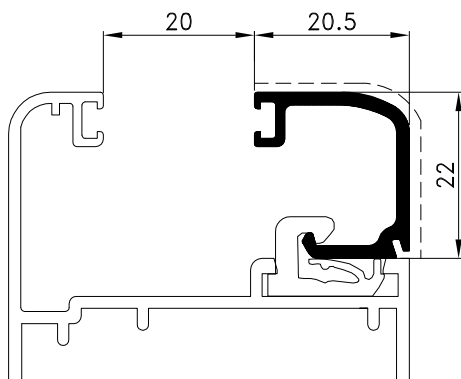
**Z40-649**

težina: kg/ml 0.221  
svj.povr. mm 30



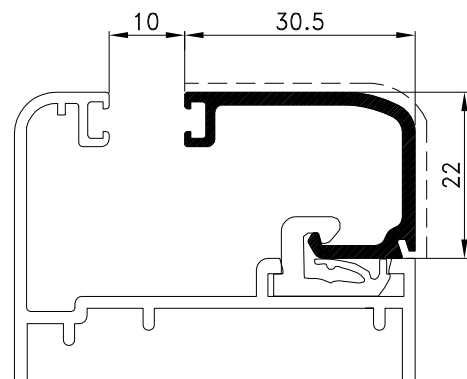
**Z40-662**

težina: kg/ml 0.245  
svj.povr. mm 35



**Z40-648**

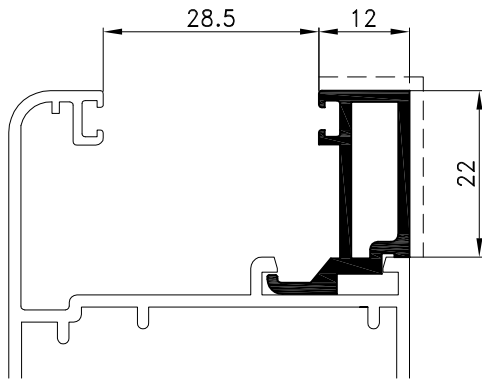
težina: kg/ml 0.268  
svj.povr. mm 40



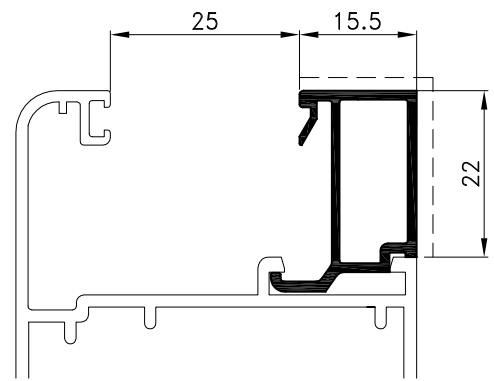
**Z40-661**

težina: kg/ml 0.268  
svj.povr. mm 50

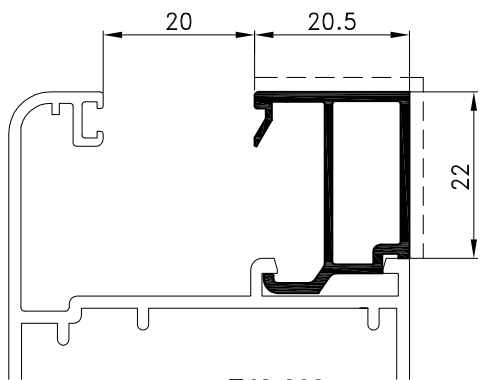




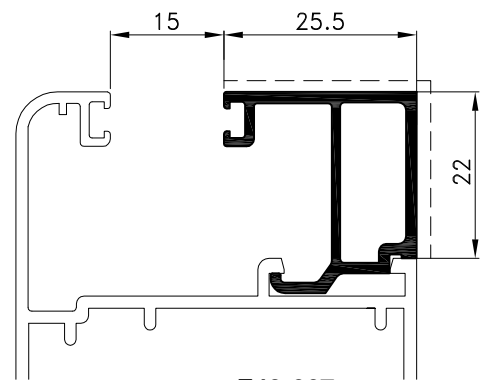
**F-0784**  
težina kg/m 0.330  
svj. povr.mm 34



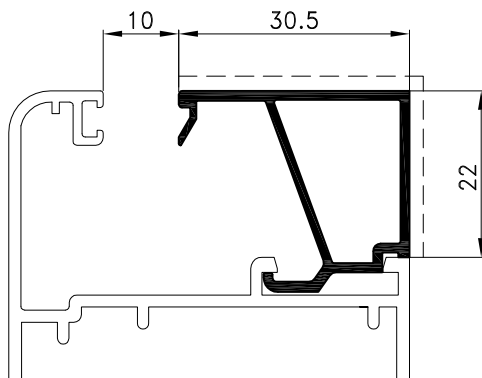
**Z40-665**  
težina kg/m 0.272  
svj. povr.mm 37



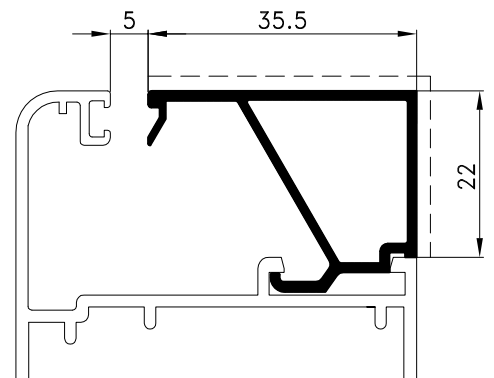
**Z40-666**  
težina kg/m 0.289  
svj. povr.mm 42



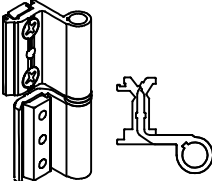
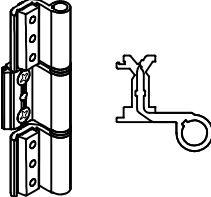
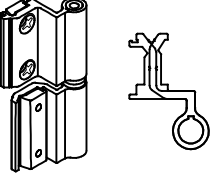
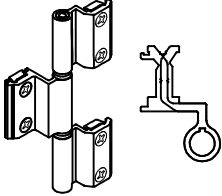
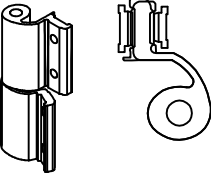
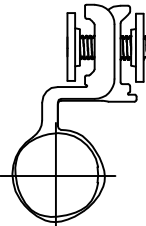
**Z40-667**  
težina kg/m 0.358  
svj. povr.mm 47

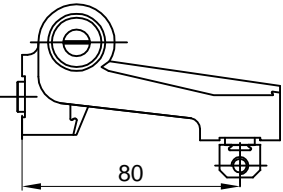
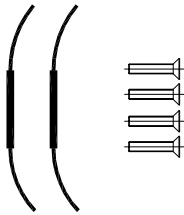
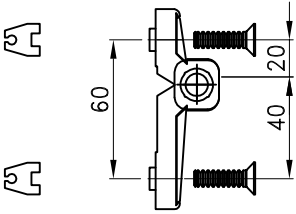
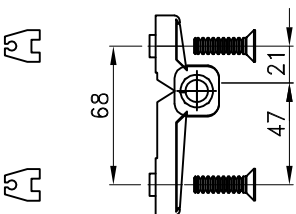
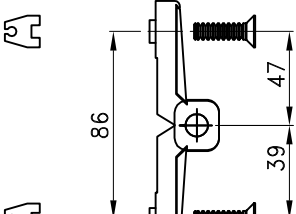
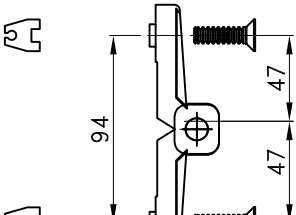


**Z40-668**  
težina kg/m 0.326  
svj. povr.mm 52

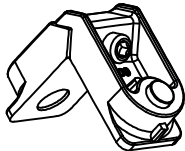


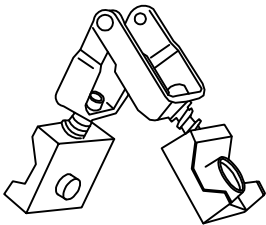
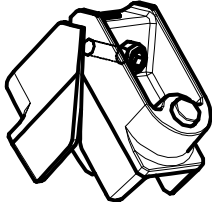
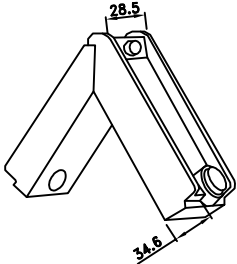


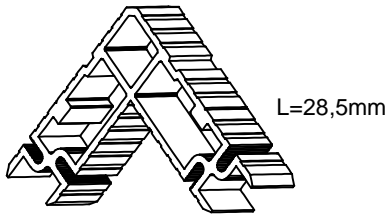
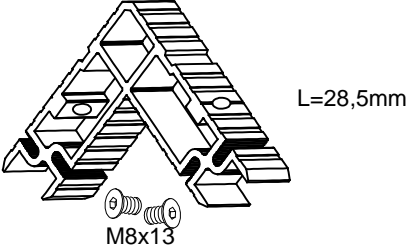

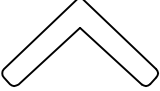
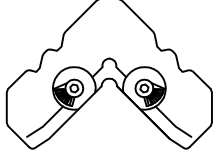
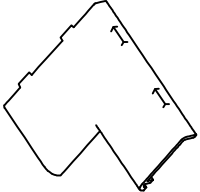
**Z40-669**  
težina kg/m 0.347  
svj. povr.mm 57

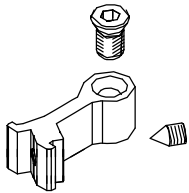
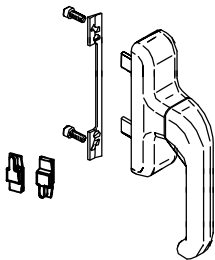
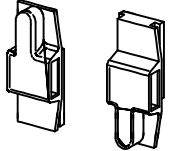



CODE	Izgled-presjek	Opis	Materijal	Nap.
111.001.01 02 03		- Dvodijelna šarka <i>EURO ŽLIJEB</i> - Stara oznaka E-100 - Boje: 01- bijela; 02 - siva;03 - crna		
111.002.01 02 03		- Trodjelna šarka <i>EURO ŽLIJEB</i> - Stara oznaka E-120 - Boje: 01- bijela; 02 - siva;03 - crna		
111.003.01 02 03		- Dvodijelna šarka-vani <i>EURO ŽLIJEB</i> - Stara oznaka EV-110 - Boje: 01- bijela; 02 - siva;03 - crna		
111.004.01 02 03		- Trodjelna šarka-vani <i>EURO ŽLIJEB</i> - Stara oznaka EV-130 - Boje: 01- bijela; 02 - siva;03 - crna		
114.001.01 02 03		- Dvodijelna šarka- <i>EURO ŽLIJEB</i> - Stara oznaka 2006.00.305-s 310-b 313-c		
113.003.01 02 03		- Dvodijelna šarka- <i>EURO ŽLIJEB</i> - Stara oznaka: VENUS - Boje: 01- bijela; 02 - siva;03 - crna		

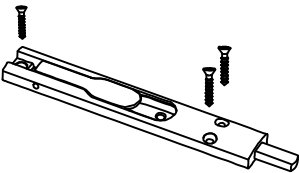
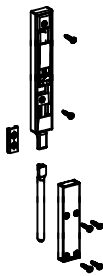
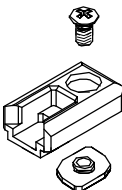
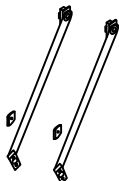
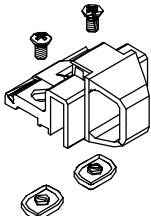
CODE	Izgled-presjek	Opis	Materijal	Nap.
<b>110.003.01</b> <b>02</b> <b>03</b>		<ul style="list-style-type: none"> <li>- Dvodijelna usadna šarka 90°- vanjsko otvaranje</li> <li>- Stara oznaka FAPIM-D ANGOLO ART 6492</li> <li>- Boje: 01- bijela; 02 - siva;03 - crna</li> </ul>		
<b>110.004</b>		<ul style="list-style-type: none"> <li>- Set za ART 6492</li> <li>- Stara oznaka: 6620I</li> </ul>		
<b>113.006.01</b> <b>02</b> <b>03</b>		<ul style="list-style-type: none"> <li>- Dvodijelna šarka OSNO 60</li> <li>- Stara oznaka: Osno 60</li> <li>- Boje: 01- bijela; 02 - siva;03 - crna</li> </ul>	Al. Čelik	
<b>113.002.01</b> <b>02</b> <b>03</b>		<ul style="list-style-type: none"> <li>- Dvodijelna šarka OSNO 68</li> <li>- Stara oznaka: Osno 68</li> <li>- Boje: 01- bijela; 02 - siva;03 - crna</li> </ul>	Al. Čelik	
<b>113.007.01</b> <b>02</b> <b>03</b>		<ul style="list-style-type: none"> <li>- Dvodijelna šarka OSNO 86</li> <li>- Stara oznaka: Osno 86</li> <li>- Boje: 01- bijela; 02 - siva;03 - crna</li> </ul>	Al. Čelik	
<b>113.001.01</b> <b>02</b> <b>03</b>		<ul style="list-style-type: none"> <li>- Dvodijelna šarka OSNO 94</li> <li>- Stara oznaka: Osno 94</li> <li>- Boje: 01- bijela; 02 - siva;03 - crna</li> </ul>	Al. Čelik	

CODE	Izgled-presjek	Opis	Materijal	Nap.
113.008.01 02 03		- Dvodijelna šarka OSNO 60 - Stara oznaka: Max3D 60 - Boje: 01- bijela; 02 - siva;03 - crna	Al. Čelik	
113.009.01 02 03		- Dvodijelna šarka OSNO 70 - Stara oznaka: Max3D 68 - Boje: 01- bijela; 02 - siva;03 - crna	Al. Čelik	
113.010.01 02 03		- Dvodijelna šarka OSNO 86 - Stara oznaka: Max3D 86 - Boje: 01- bijela; 02 - siva;03 - crna	Al. Čelik	
113.011.01 02 03		- Dvodijelna šarka OSNO 96 - Stara oznaka: Max3D 94 - Boje: 01- bijela; 02 - siva;03 - crna	Al. Čelik	

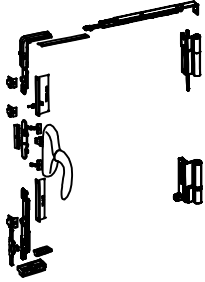
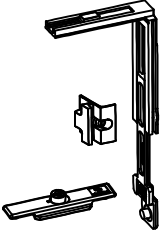
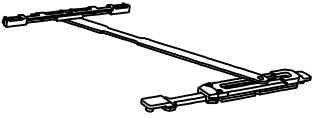
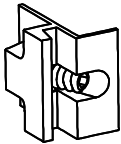


CODE	Izgled-presjek	Opis	Materijal	Nap.
730.008		- Kutna spojnica prozora-za komoru 29x15.2 - Stara oznaka: 0409 ,1001	Zamak #3	
710.035		l=28,5mm - Kutna spojnica za komoru 29x15,2 - Stara oznaka K-0868-A	Al.	
710.075		l=28,5mm - Kutna spojnica za komoru 29x15,2 - Stara oznaka K-0868	Al.	
		M8x13		
731.001		- Kutna spojnica za promjenjiv kut za komoru 29x15.2 - Stara oznaka: 0909	Zamak #3	
730.009		- Kutna spojnica prozora -za komoru 29x35.5 - Stara oznaka: 4004 ,2001	Zamak #3	
731.002		- Kutna spojnica za komoru 29x35.5 - Stara oznaka: 1007	<b>Zamak #3</b>	

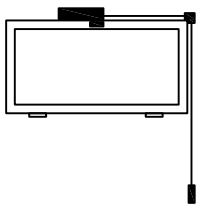
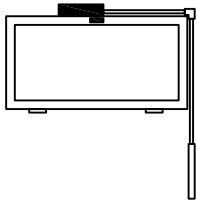
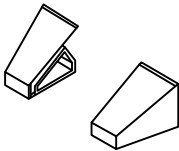
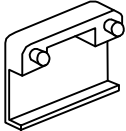
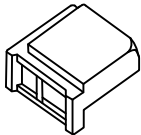
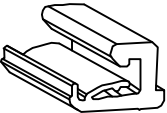
CODE	Izgled-presjek	Opis	Materijal	Nap.
710.059	 <p>L=28,5mm</p>	- Kutna spojnica za komoru 29x35,5 - Stara oznaka K-0795	Al.	
710.072	 <p>L=28,5mm M8x13</p>	- Kutna spojnica za komoru 29x35,5 - Stara oznaka K-0795	Al.	
730.001		- Kutna spojnica za komoru 1.7x4.7 - Stara oznaka: G112	Inox	
730.002		- Kutna spojnica za komoru 1.7x4.7 - Stara oznaka: G112/A	Inox	
730.010		- Kutna spojnica za komoru 6.5x27 - Stara oznaka: 5001	Inox	
730.003		- Kutna spojnica za komoru 6.5x27 - Stara oznaka: 0366	PVC	

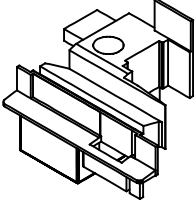
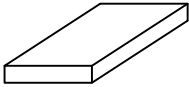
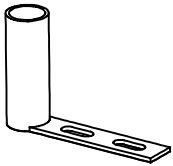
CODE	Izgled-presjek	Opis	Materijal	Nap.
710.066	 <p style="text-align: right;">M8x13 M6x10</p>	<ul style="list-style-type: none"> <li>- Veznik (L=14.7mm)</li> <li>- Stara oznaka E-200</li> </ul>	Al.	
104.002.01 02 03		<ul style="list-style-type: none"> <li>- Ručka za prozor</li> <li>- Stara oznaka: 1004.00.3xx</li> <li>- Boje: 01- bijela; 02 - siva; 03 - crna</li> </ul>	AlSi Zamak	
140.035		<ul style="list-style-type: none"> <li>- Elementi za povezivanje ručke i klizača</li> <li>- Stara oznaka: 28002955 (alutec)</li> </ul>	PVC	
143.001		<ul style="list-style-type: none"> <li>- Zapinjač</li> <li>- Stara oznaka: GS 2114</li> </ul>		
143.002		<ul style="list-style-type: none"> <li>-Zapinjač-krakun za pasivno krilo</li> <li>- Stara oznaka: GS 2111</li> </ul>		
143.005		<ul style="list-style-type: none"> <li>- Fiksni zapinjač-krakun za vrata</li> <li>- Stara oznaka: GS 2172</li> </ul>		

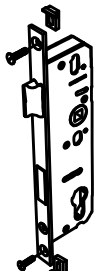
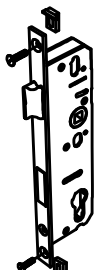
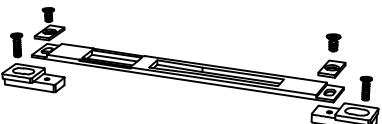
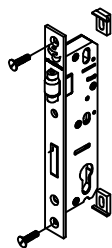
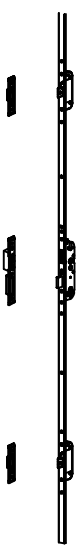
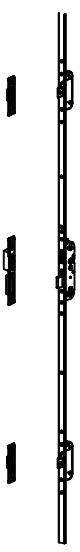
CODE	Izgled-presjek	Opis	Materijal	Nap.
144.000		- Zapinjač-krakun za vrata - Stara oznaka:3006.00		
143.006		- Zapinjač vanjski - Stara oznaka: GS 2170		
143.003		- Jednostrani prihvati zapinjača - Stara oznaka GS 1314		
131.002		- Škare za <i>ventus</i> prozor - Stara oznaka E-350		
124.005.01 02 03		- Mehanizam-"škljoca" otklopnog prozora - Stara oznaka: 1014.00.305-s. .310-b. .313-c) - Boje: 01- bijela; 02 - siva;03 - crna		



CODE	Izgled-presjek	Opis	Materijal	Nap.
134.000.01 02 03		- Otklopno-zaokretni mehanizam -(dry-clip) - Stara oznaka 4030.00 - Boje: 01- bijela; 02 - siva;03 - crna	AISi Zamak	
134.002		-Komplet za bočno zatvaranje krila kod dry kipa (dodatno ključanje) -Stara oznaka 4010.40	AISi Zamak	
134.003		-Pomoćne škare kod dry kipa- za krila veća od L=1200 mm -Stara oznaka 4010.50		
134.004		- Dodatno ključanje-prihvatnik tuljca - Stara oznaka 4010.03		
134.005		- Dodatno ključanje-tuljac - Stara oznaka 4010.27		
134.001		- Komplet okova za fiksiranje pomoćnog krila - Stara oznaka: 4001.00.301	AISi Zamak	

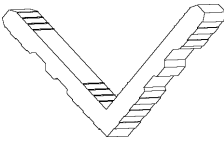
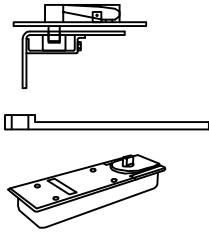
CODE	Izgled-presjek	Opis	Materijal	Nap.
145.001		- Mehanizam za otklopno na visini sa špagom - Stara oznaka: Ragno		
146.001.01 .02 .03		- Mehanizam za otklopno na visini sa šipkom - Stara oznaka: OL90 (Geze) - Boje: 01- bijela; 02 - siva; 03 - crna  1. Škare 2. Ručica 3. Šipka Ø8 4. Pokrovni profil		
373.002		- Umetak za profil okapnice Z40-657 - Stara oznaka PRO 23	PVC	
373.003		- Maska za drenažni otvor - Stara oznaka: 2328	PVC	
385.002		- Kutni umetak za zaobljene lajsne - Stara oznaka: G2311	ZAMAK	
374.002		- umetak za profil rama FT-0201 - Stara oznaka: GT 134	PVC	

CODE	Izgled-presjek	Opis	Materijal	Nap.
<b>363.007</b>		- Umetak profila za okretanje M45-708-otvaranje unutra - Stara oznaka: PVC ČEP 402	PVC	
<b>370.000</b> <b>370.001</b> <b>370.002</b>		- Podmetači za staklo    3 mm    370.000 5 mm    370.001 7 mm    370.002	PVC	
<b>521.059</b>		- Nosač za profil F-0352/A - Stara oznaka: HS-38	Al	

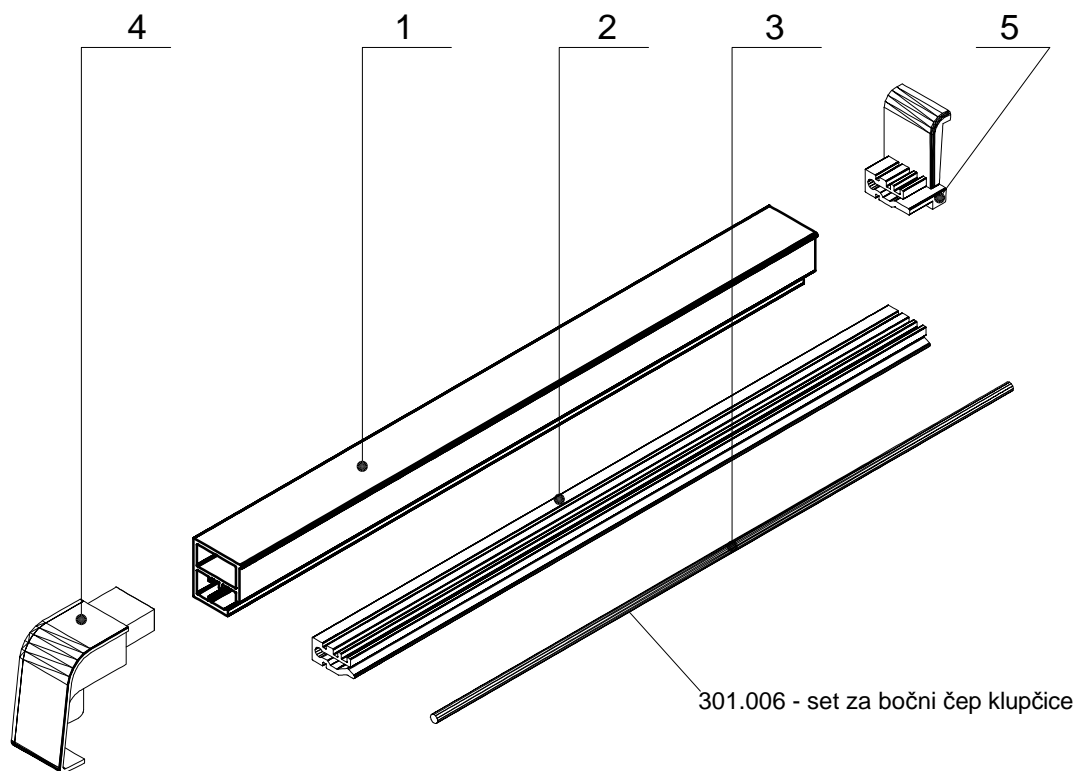
CODE	Izgled-presjek	Opis	Materijal	Nap.
124.016		- Brava 25 mm sa jezičkom - Stara oznaka: 3020.00	Inox Čelik	
124.001		- Brava 35 mm sa jezičkom - Stara oznaka: 3022.00	Inox Čelik	
124.003		-Prijvatnik jezička brave (šild) - Stara oznaka: 3016.00	Prokrom Čelik	
124.010		- Brava 35 mm sa valjkom - Stara oznaka: 3032	Inox Čelik	
126.001		-Sigurnosna brava 35 mm <u>sa jezičkom</u> (ISEO) -Ključanje u tri točke -Prijvatnik za bravu-šild -Stara oznaka brave: 785111352 -Stara oznaka šilda: 6862/1	Inox Čelik	
126.002		-Sigurnosna brava 35 mm <u>sa valjkom</u> (ISEO) -Ključanje u tri točke -Prijvatnik za bravu-šild -Stara oznaka brave: 785211352 -Stara oznaka šilda: 6862/1	Inox Čelik	

CODE	Izgled-presjek	Opis	Materijal	Nap.
125.001		- Prihvatnik jezička brave (šild) - Stara oznaka: 6862/25	Prokrom Čelik	
123.001.01 02 03		- Štitić cilindra za bravu (par) - Stara oznaka: 149.805 - Boje: 01- bijela; 02 - siva; 03 - crna	PVC	
124.004.01 02 03		- Štitić cilindra za bravu (par) - Stara oznaka: 1016.00 - Boje: 01- bijela; 02 - siva; 03 - crna	Zn Čelik	
124.014		- Uložak za bravu 31/45 - Stara oznaka: 5055.00.520	Čelik	
103.001.01 02 03		- Ručke za vrata (par) - Stara oznaka: 890 - Boje: 01- bijela; 02 - siva; 03 - crna	AlSi Zamak	
104.001.01 02 03		- Ručke za vrata (par) - Stara oznaka: 1032.00 - Boje: 01- bijela; 02 - siva; 03 - crna	AlSi Zamak	

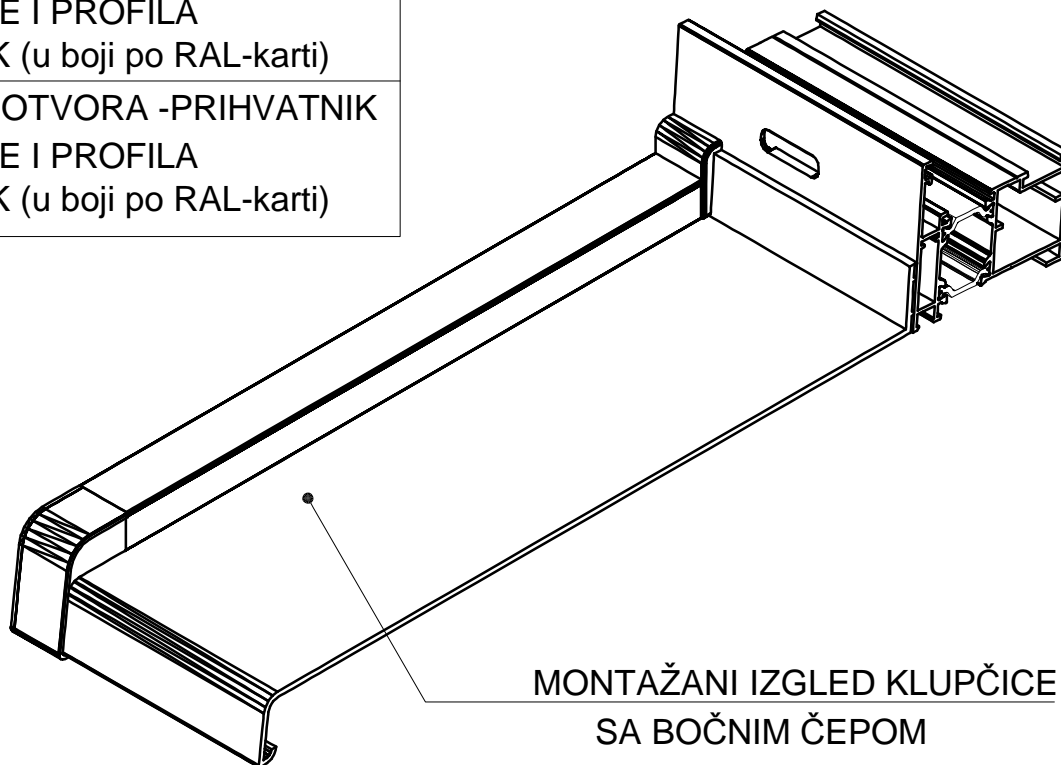
CODE	Izgled-presjek	Opis	Materijal	Nap.
220.003		<ul style="list-style-type: none"> <li>- Grupa glodala za obradu prečki prema profilu krila i okvira</li> <li>- Stara oznaka: Grupa glodala 45 MILL</li> </ul>	Čelik	
210.000		<ul style="list-style-type: none"> <li>- Štanca za otklopno zaokretne sisteme prozora i vrata</li> <li>- Stara oznaka S1</li> </ul>		
210.001		<ul style="list-style-type: none"> <li>- Kliješta za kutne spojnice</li> <li>- Stara oznaka :kliješta -83064</li> </ul>		
210.002		<ul style="list-style-type: none"> <li>- Noževi za kliješta kutnih spojnica</li> <li>- Stara oznaka :noževi</li> </ul>		
301.006		Set za bočni čep klupice	PVC, TPE Al	
521.057		Umetak za gornji mehanizam kod mim. vrata -Stara oznaka: PMV-01	Al.	

CODE	Izgled-presjek	Opis	Materijal	Nap.
710.097		<p>Pomočni kutnik kod mim. vrata -Stara oznaka: KMV-01</p>	Al.	
146.002		<p>Mehanizam (gornji i donji) kod mimokretnih vrata (Geze) -Stara oznaka: GEZE TS 490</p>		

MONTAŽA KLUPČICE VRATA



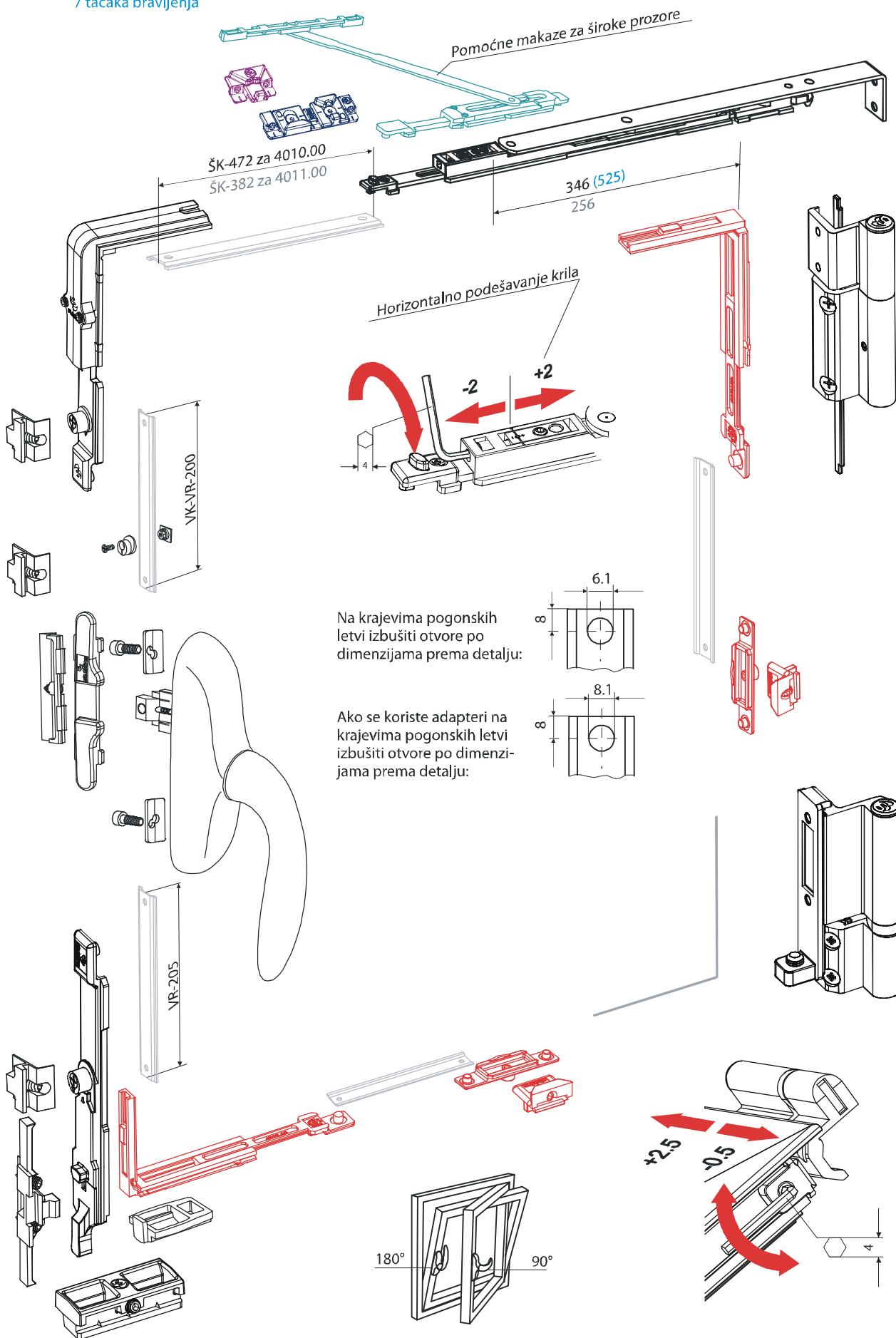
- |  |
|--|
| 1 - OSNOVNI PROFIL KLUPČICE  |
| 2 - PVC PRIHVATNIK KLUPČICE  |
| 3 - GUMENI DISTANCER   |
| 4 - VANJSKI ČEP -PRIHVATNIK KLUPČICE I PROFILA<br>mat:ZAMK (u boji po RAL-karti)   |
| 5 - ČEP DO OTVORA -PRIHVATNIK KLUPČICE I PROFILA<br>mat:ZAMK (u boji po RAL-karti) |





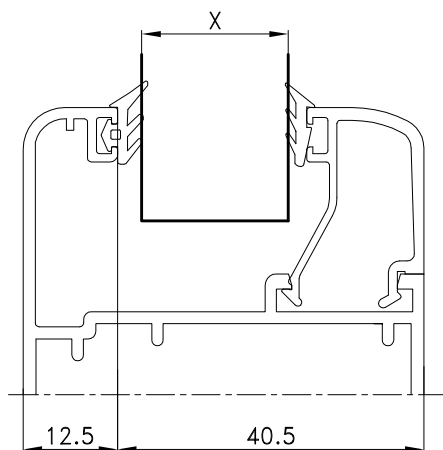
## 134.000.xx-OTKLOPNO-ZAKRETNI MEHANIZAM-Stublina

G=80 kg  
7 tačaka bravljenja

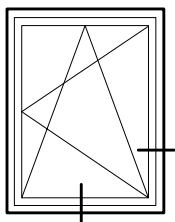


CODE	Izgled-presjek	Opis	Materijal	Nap.
331.001		- Srednja brtva - Stara oznaka: Z101	EPDM	80
321.001		- Brtva u krilu - Stara oznaka (Z106)	EPDM	61
311.001		- Brtva prema staklu /unutarnja/ - Stara oznaka (921)	EPDM	71
311.002		-Brtva prema staklu /unutarnja/ - Stara oznaka (918)	EPDM	71
321.002		- Brtva prema staklu /vanjska/ - Stara oznaka (Z111)	EPDM	61
321.003		- Brtva prema staklu /vanjska/ - Stara oznaka (Z113)	EPDM	61

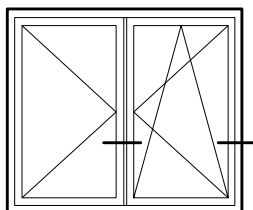
CODE	Izgled-presjek	Opis	Materijal	Nap.
311.007 311.008 311.009 311.010		-Brtva prema staklu /unutarnja/ - Stare oznake UP-5 nove oznake UP-6 UP-7 UP-8	311.007 311.008 311.009 311.010	EPDM    71
521.001		- Držać četkaste brtve L=2500 mm - Stara oznaka Z 801	Al.	
347.001		- Četkasta brtva L=2500 mm - Stara oznaka Z 802		
366.001		Kutni umetak za brtvu 331.001-otvaranje unutra L=50x50 -Stara oznaka: Z901	EPDM	
347.003		Četkasta brtva 7x9 -Stara oznaka: PB*HFC	EPDM	



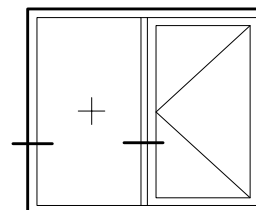
Ispuna X	Vanjska brtva	Unutarnja brtva	LAJSNE ZA STAKLO			
	321.003 (Z113)	311.002 (918)				
	321.002 (Z111)	311.001 (921)	<b>Z40-659</b>			<b>Z40-669</b>
2-3	321.003 (Z113)	311.002 (918)				
4-6	321.002 (Z111)	311.001 (921)	<b>Z40-653</b>	<b>Z40-653/B</b>	<b>Z40-661</b>	<b>Z40-668</b>
6-7	321.003 (Z113)	311.002 (918)				
8-10	321.002 (Z111)	311.001 (921)	<b>Z40-658</b>			<b>Z40-667</b>
11-12	321.003 (Z113)	311.002 (918)				
13-15	321.002 (Z111)	311.001 (921)	<b>Z40-644</b>	<b>Z40-646</b>	<b>Z40-648</b>	<b>Z40-666</b>
16-17	321.003 (Z113)	311.002 (918)				
18-20	321.002 (Z111)	311.001 (921)	<b>M45-709</b>	<b>M45-740</b>	<b>Z40-662</b>	<b>Z40-665</b>
21-22	321.003 (Z113)	311.002 (918)				
23-25	321.002 (Z111)	311.001 (921)	<b>Z40-636</b>	<b>Z40-647</b>	<b>Z40-649</b>	<b>F-784</b>
26-27	321.003 (Z113)	311.002 (918)				
28-30	321.002 (Z111)	311.001 (921)	<b>Z40-656</b>			
29-31	321.003 (Z113)	311.002 (918)				
32-34	321.002 (Z111)	311.001 (921)	<b>Z40-660</b>			



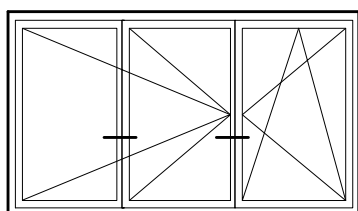
str. 01



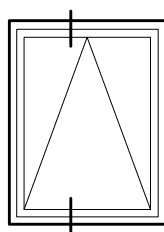
str. 02



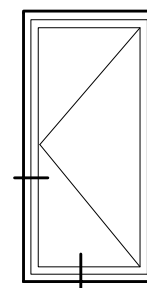
str. 03



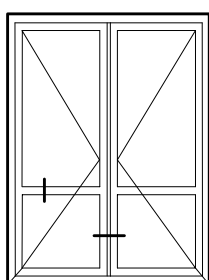
str. 04



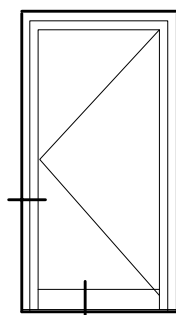
str. 05



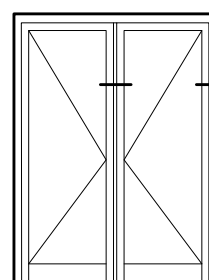
str. 06



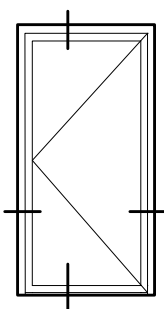
str. 07



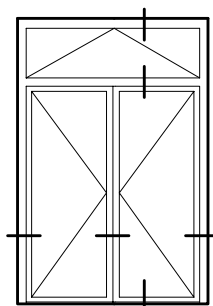
str. 08



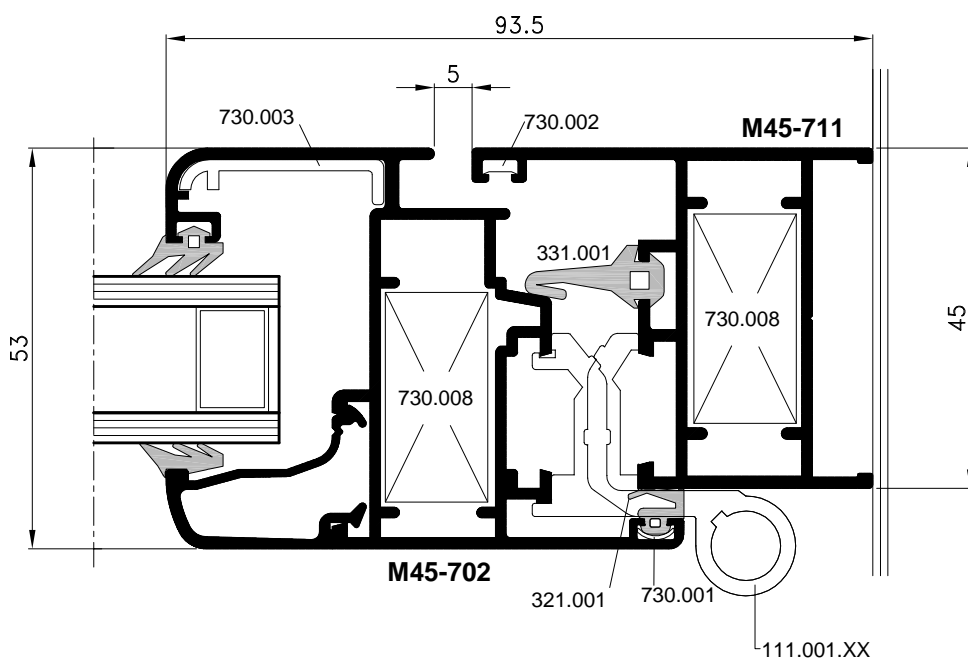
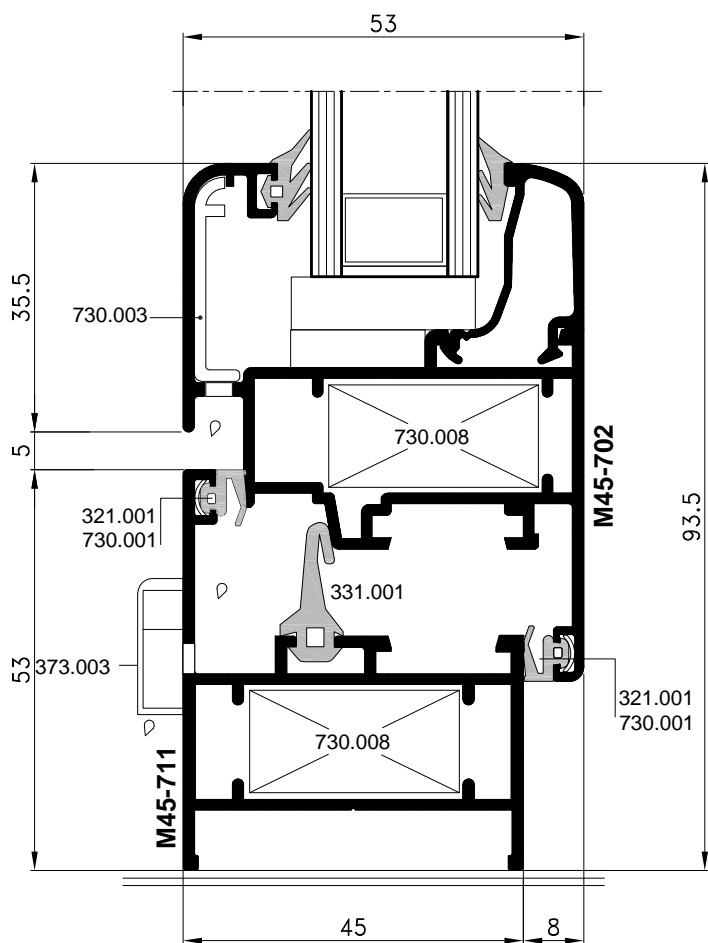
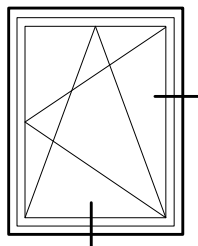
str. 09

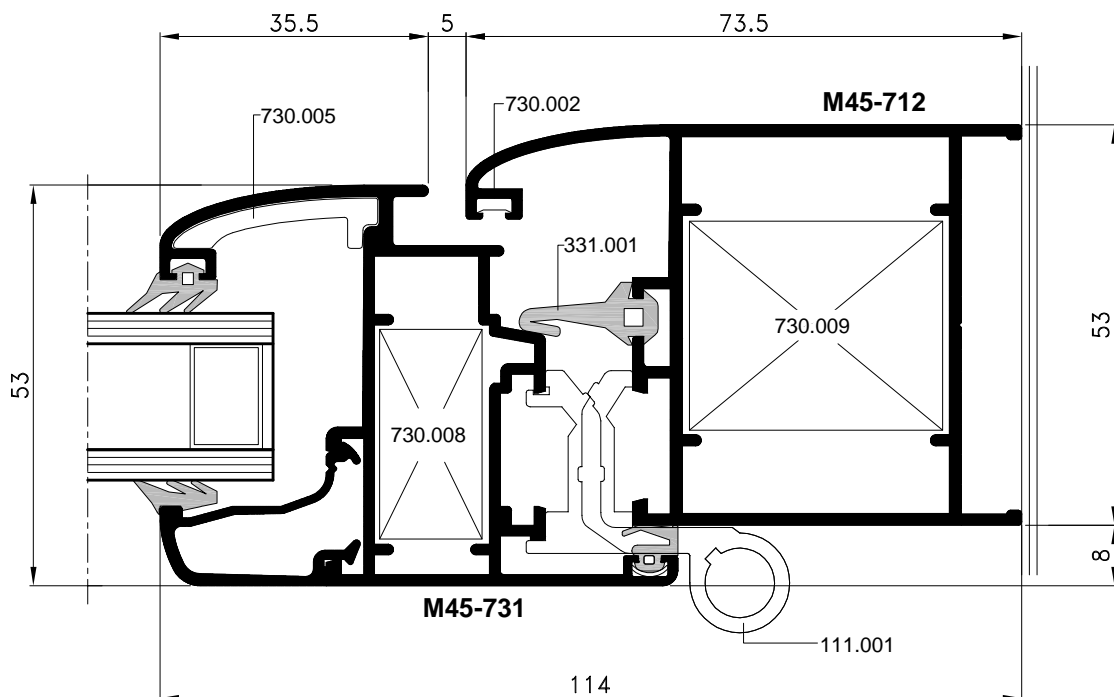
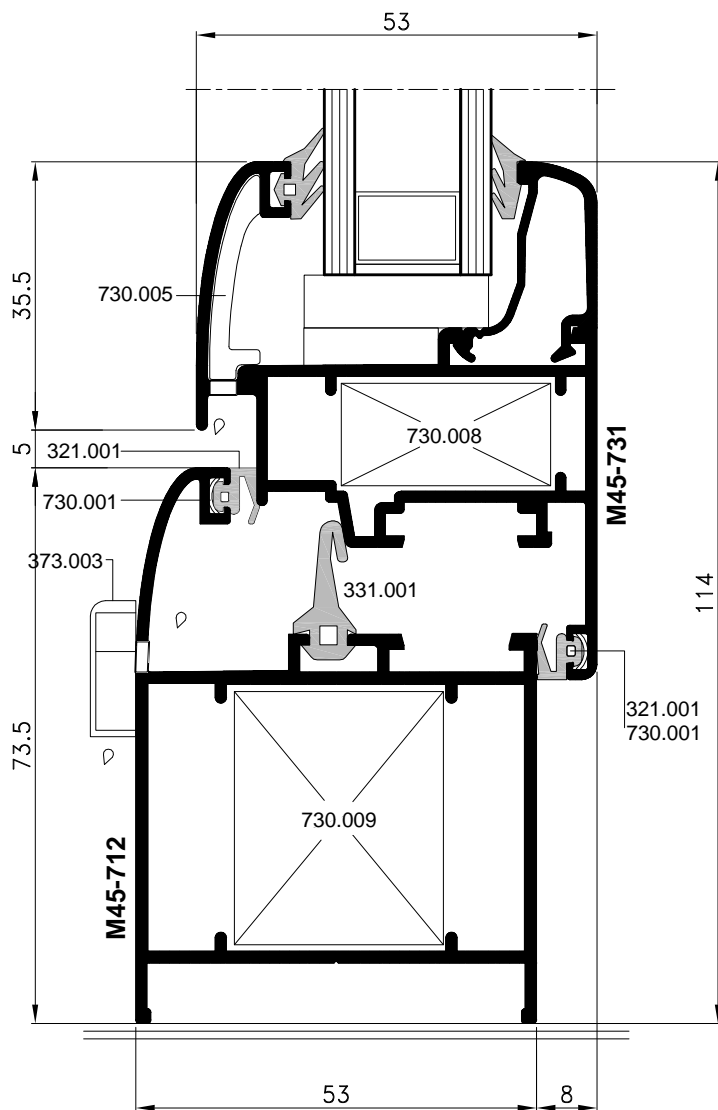
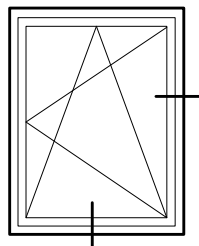


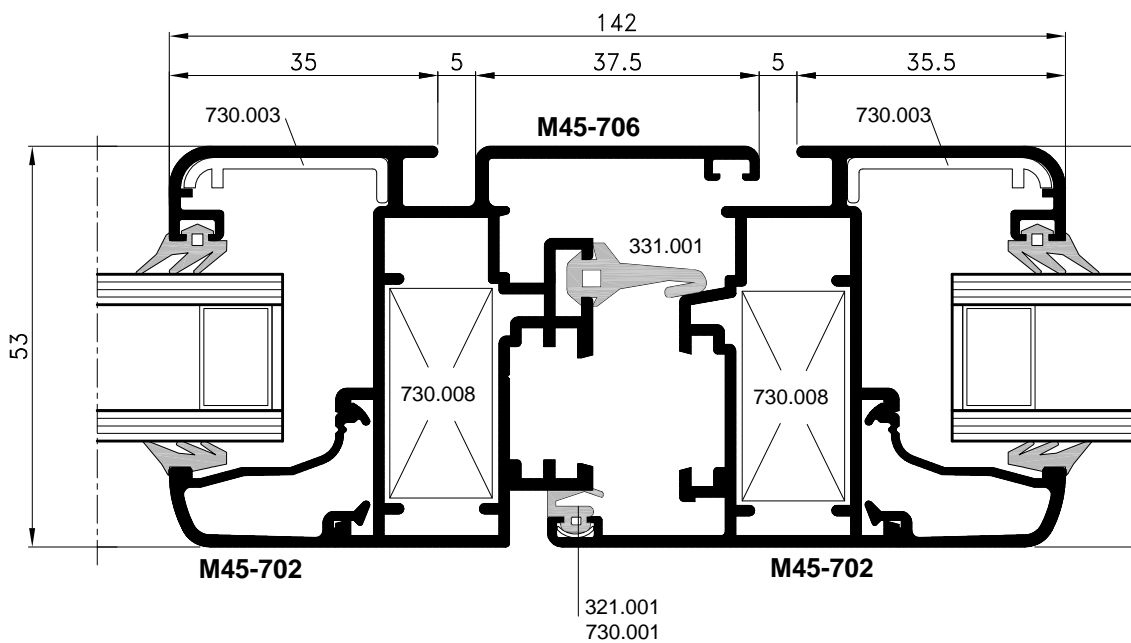
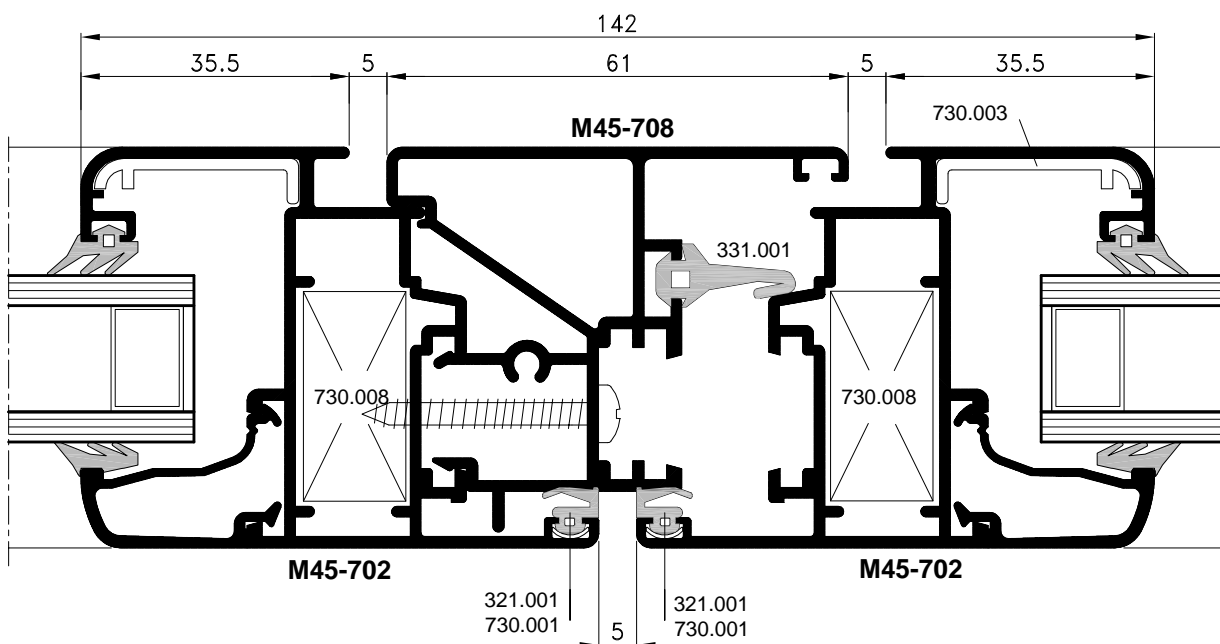
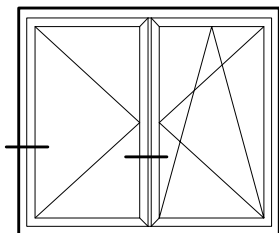
str. V1-V2



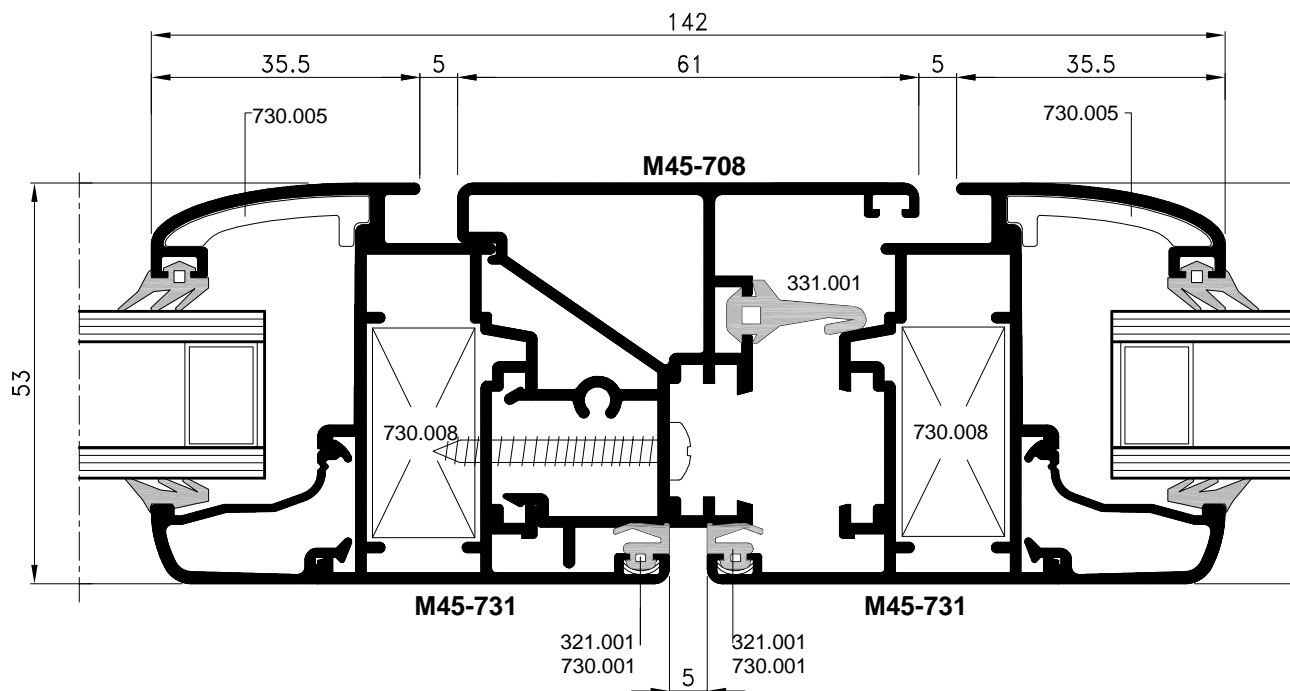
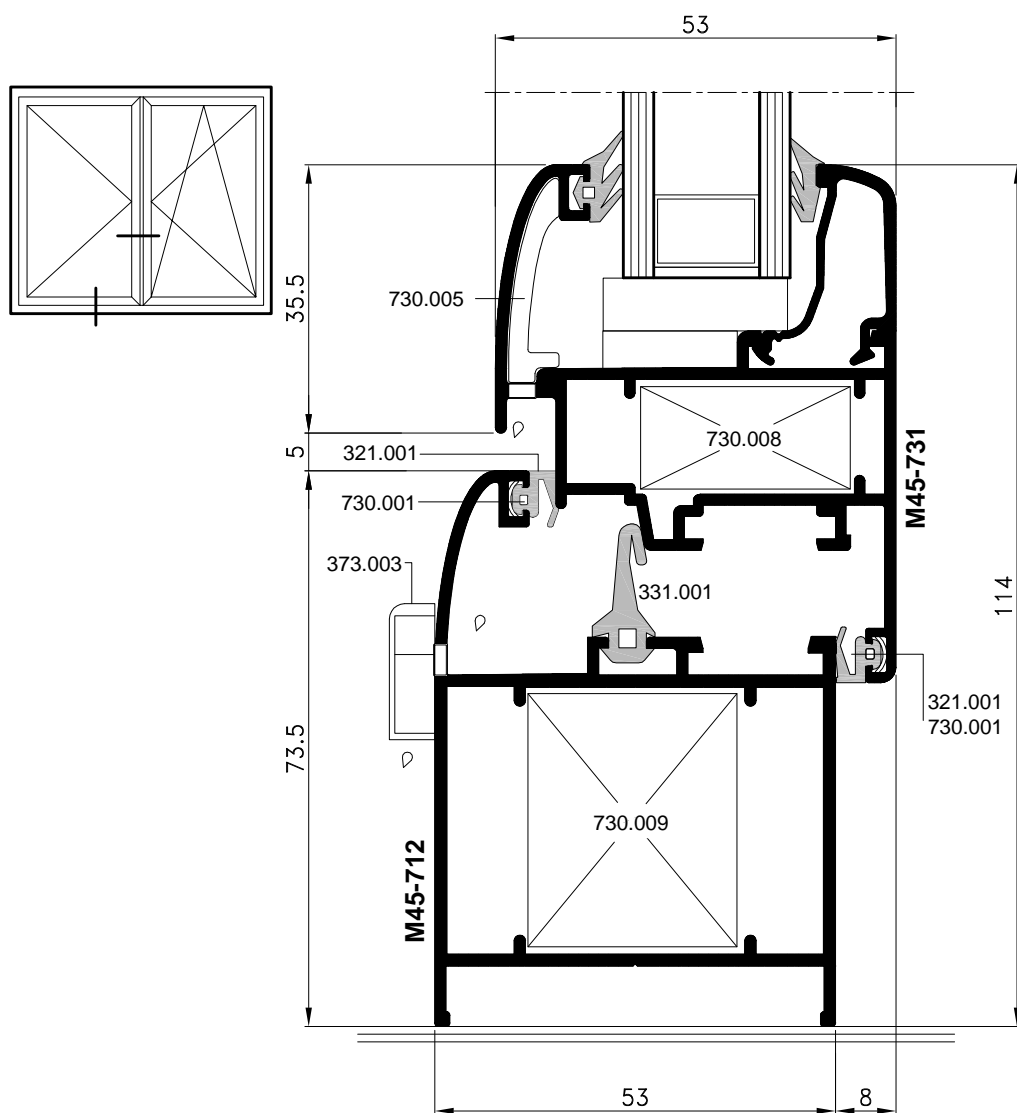
str. V3-V4

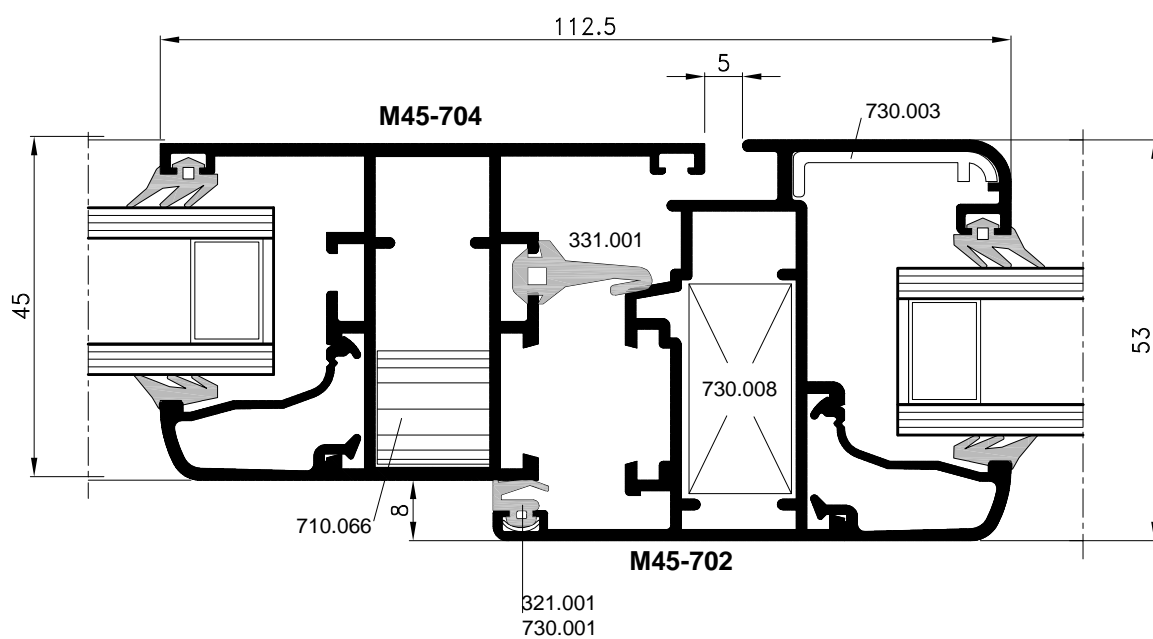
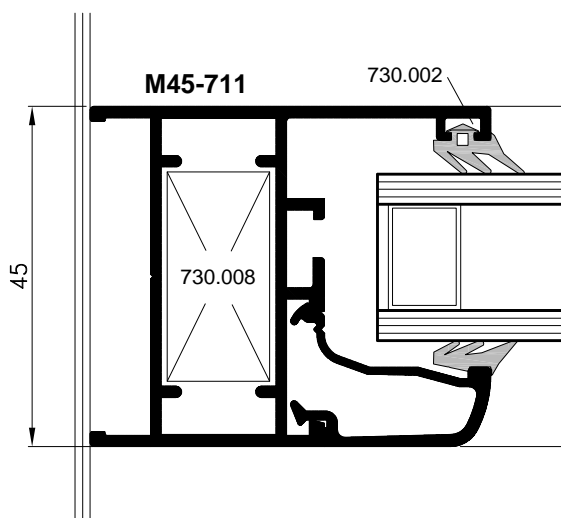
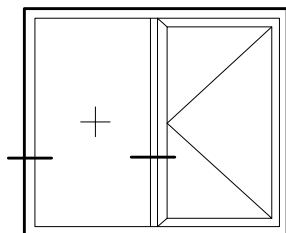


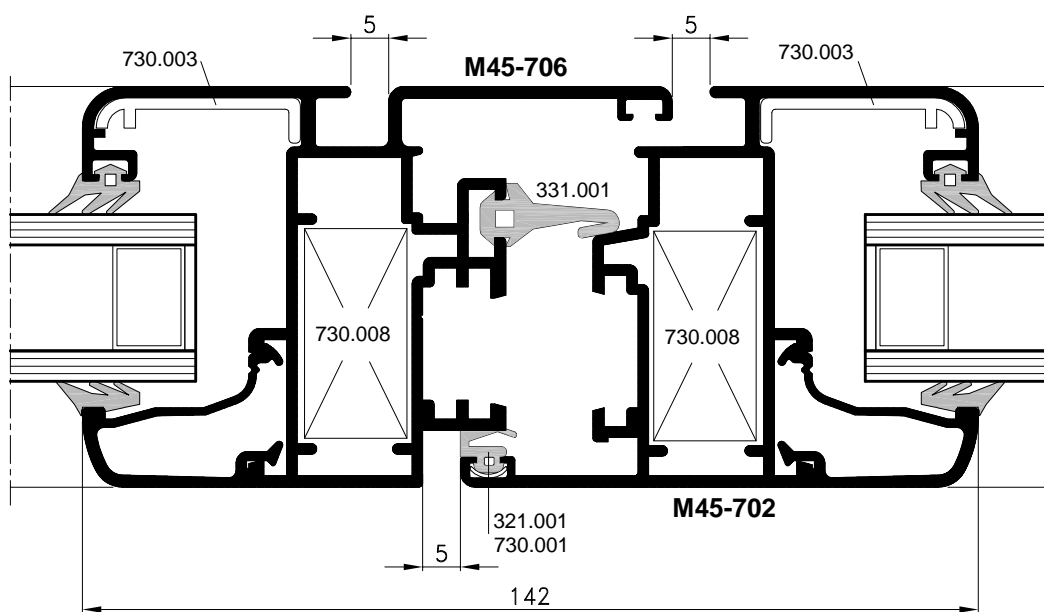
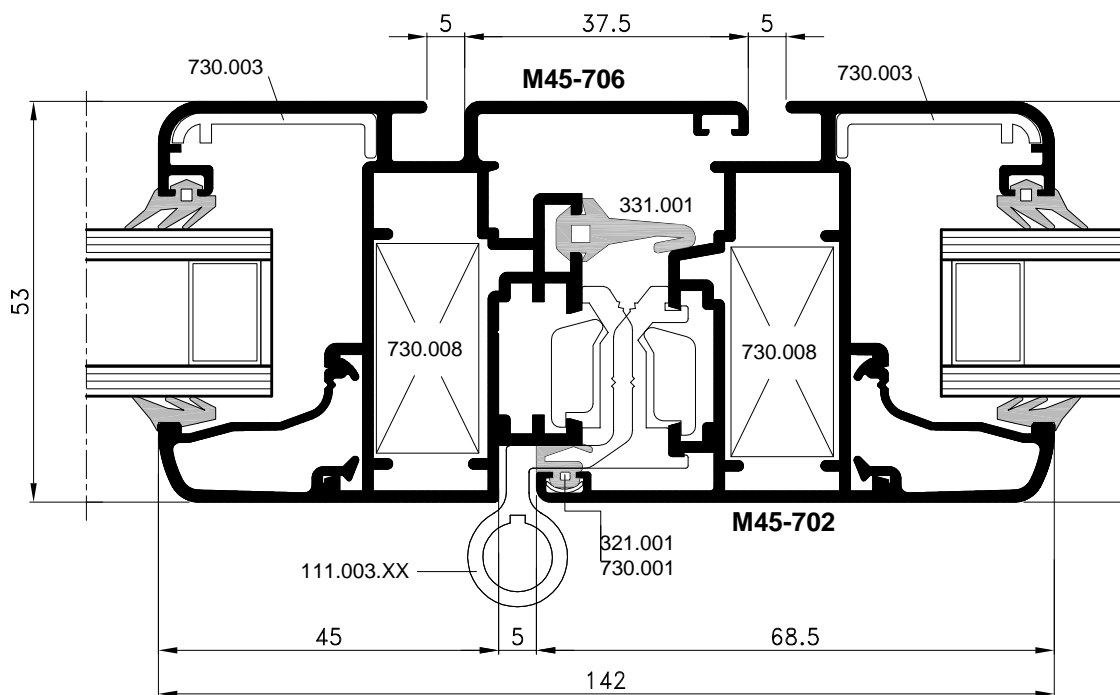
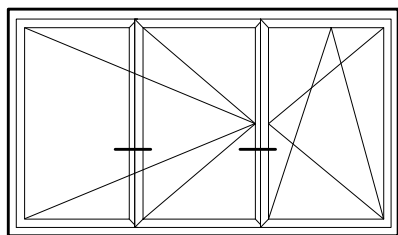


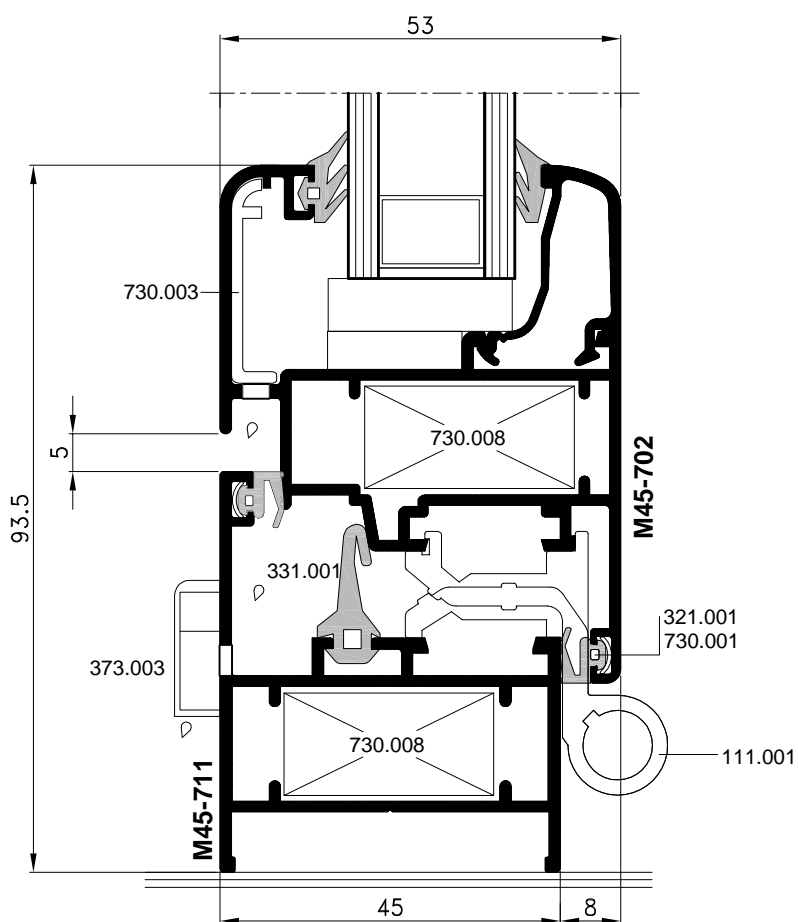
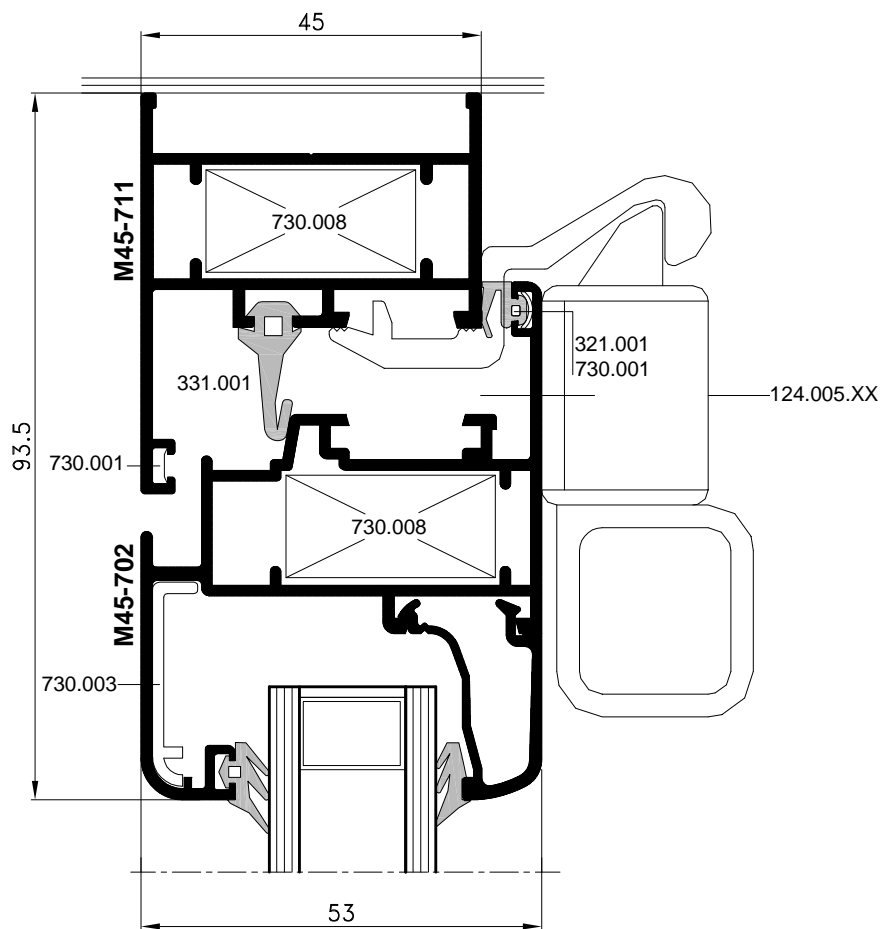
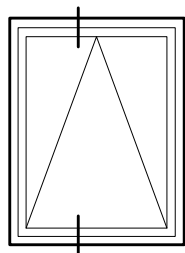


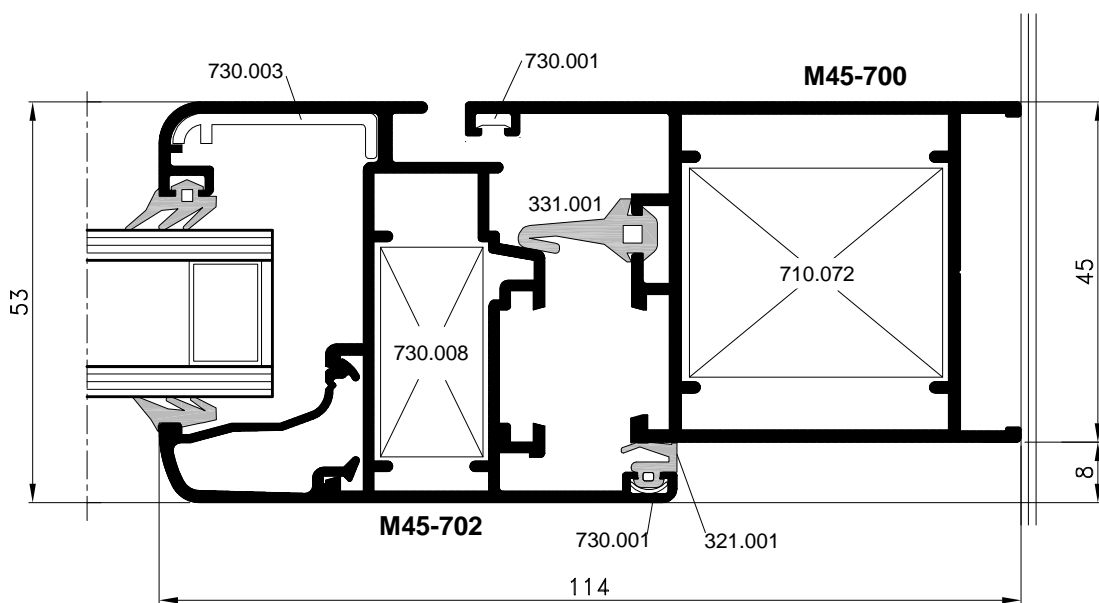
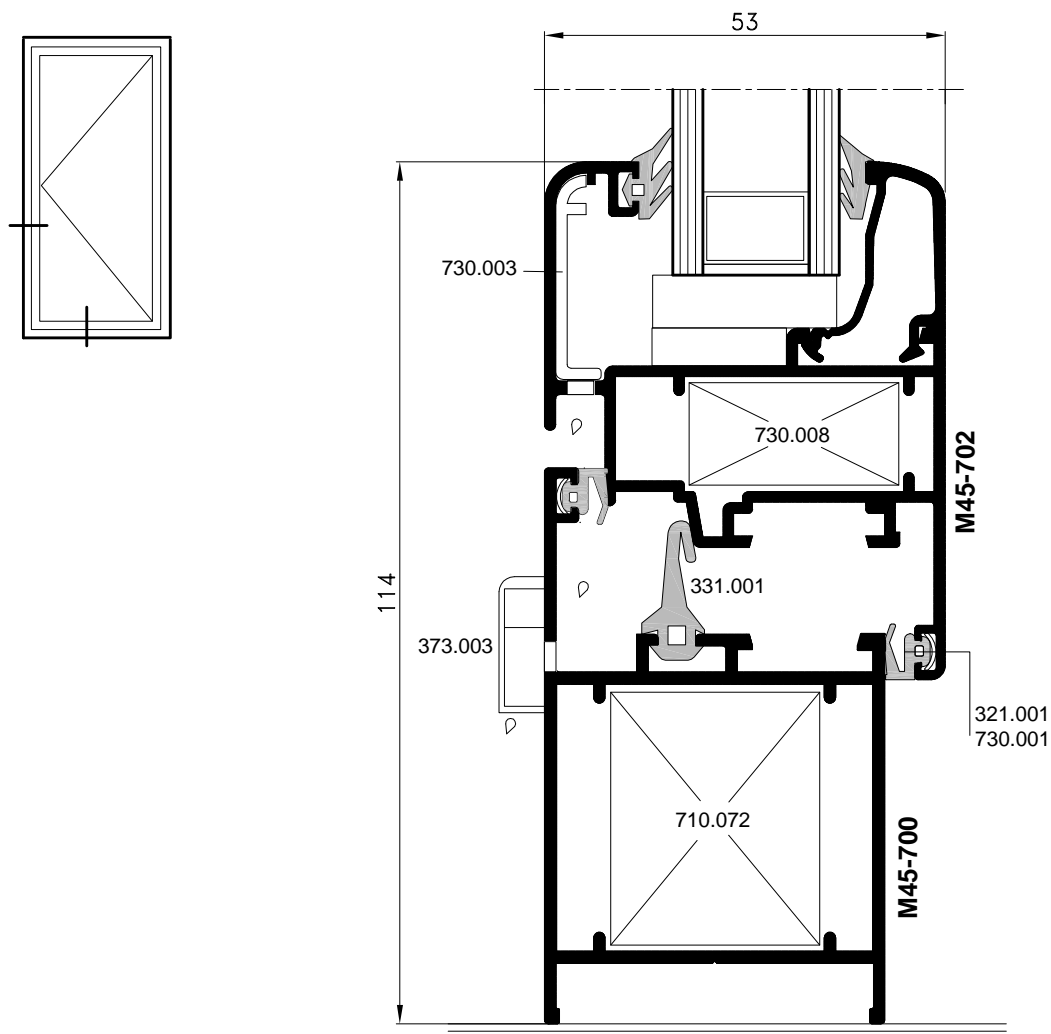


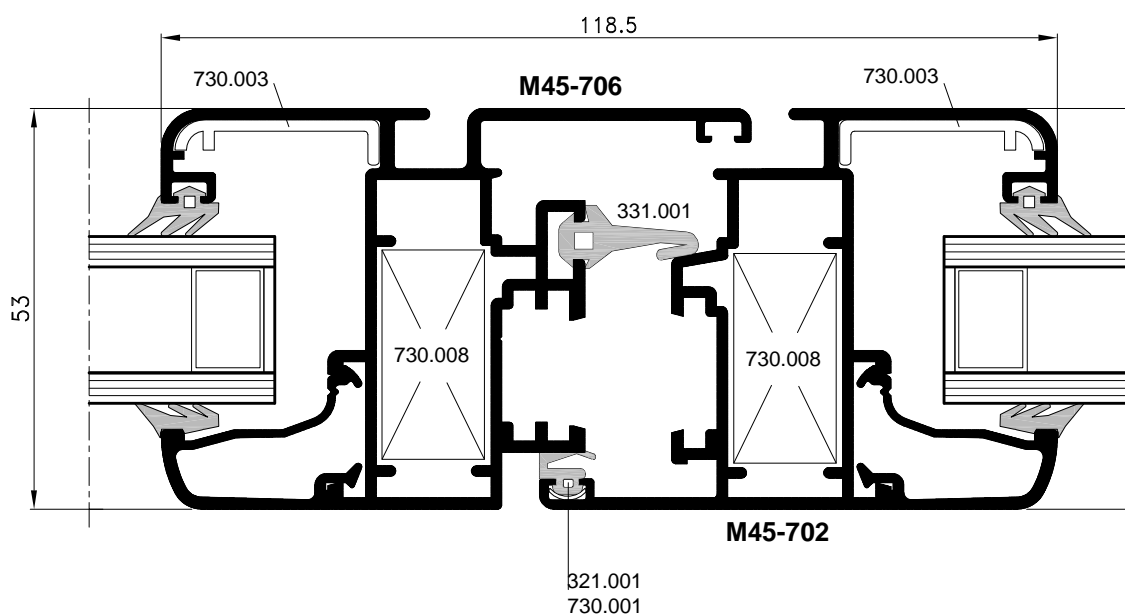
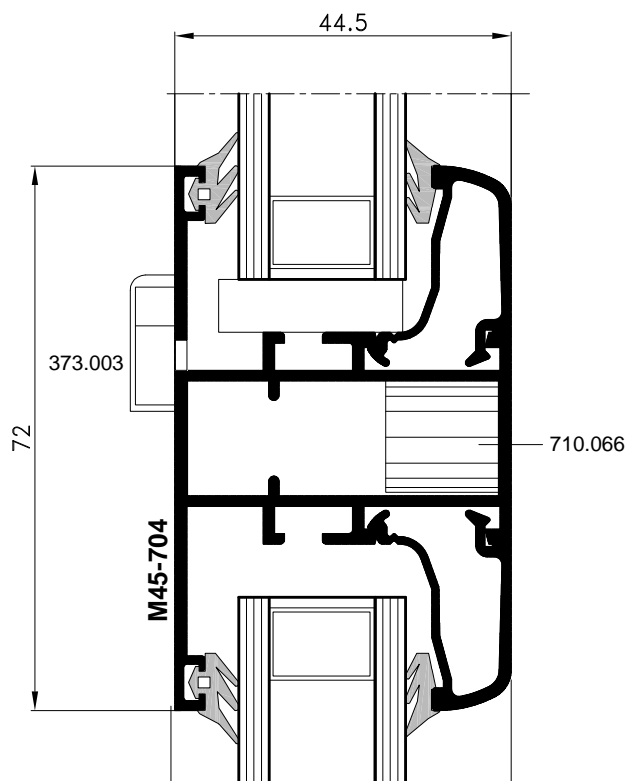
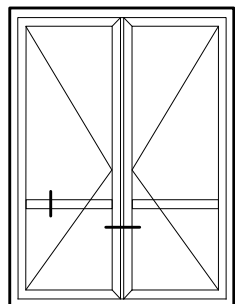


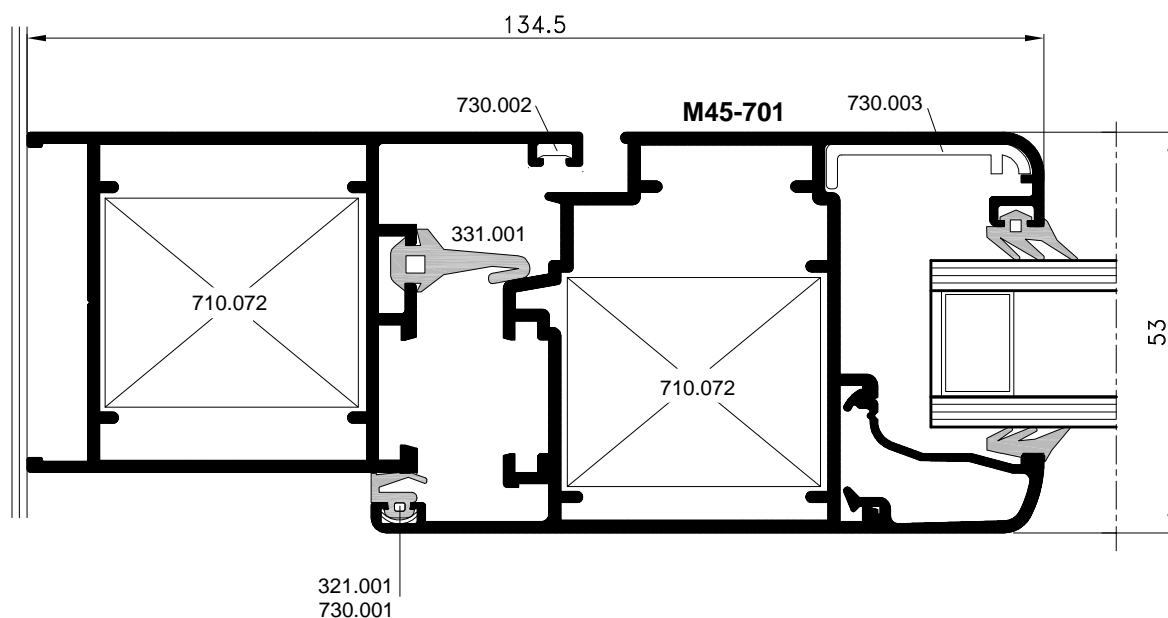
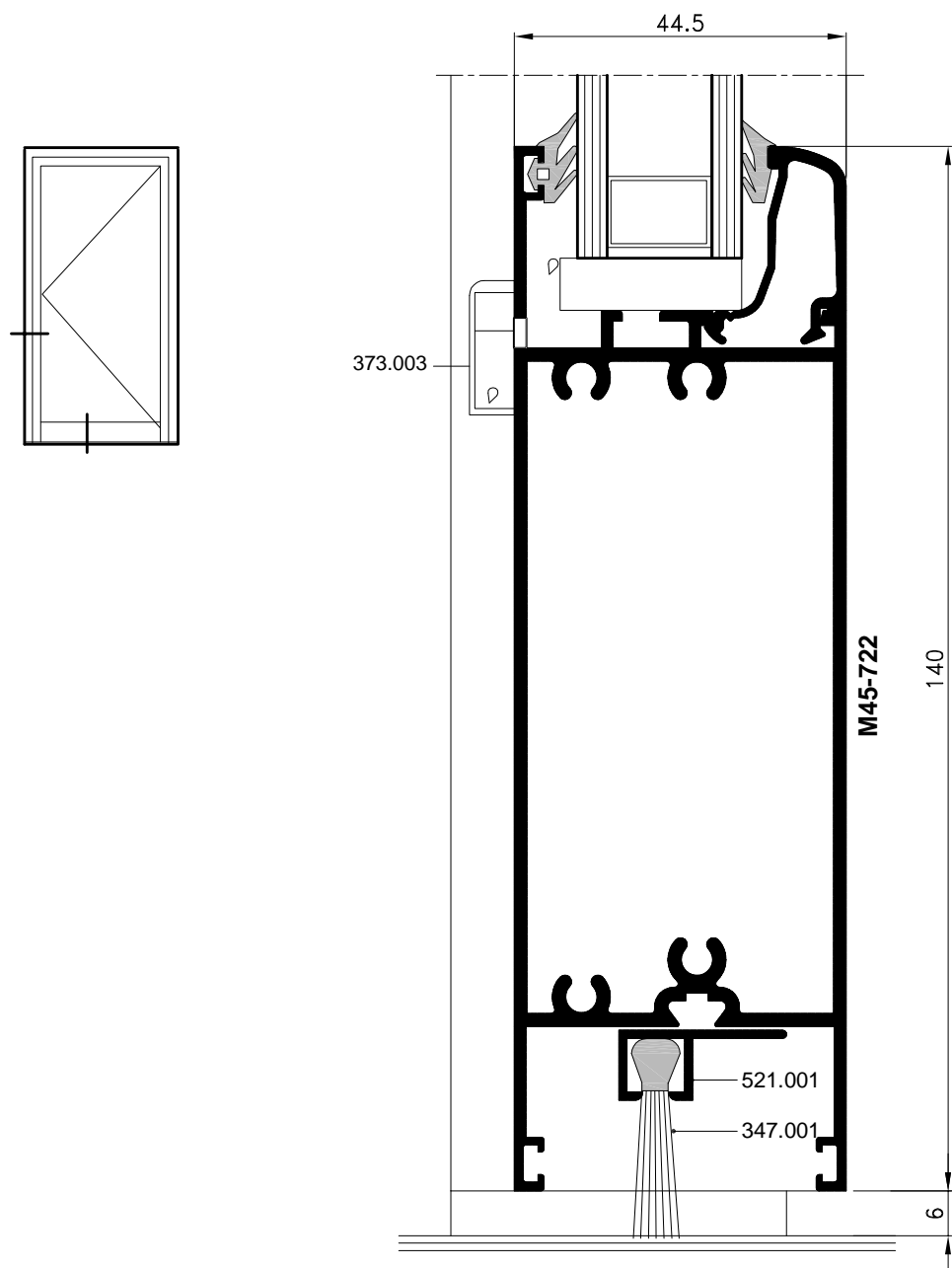


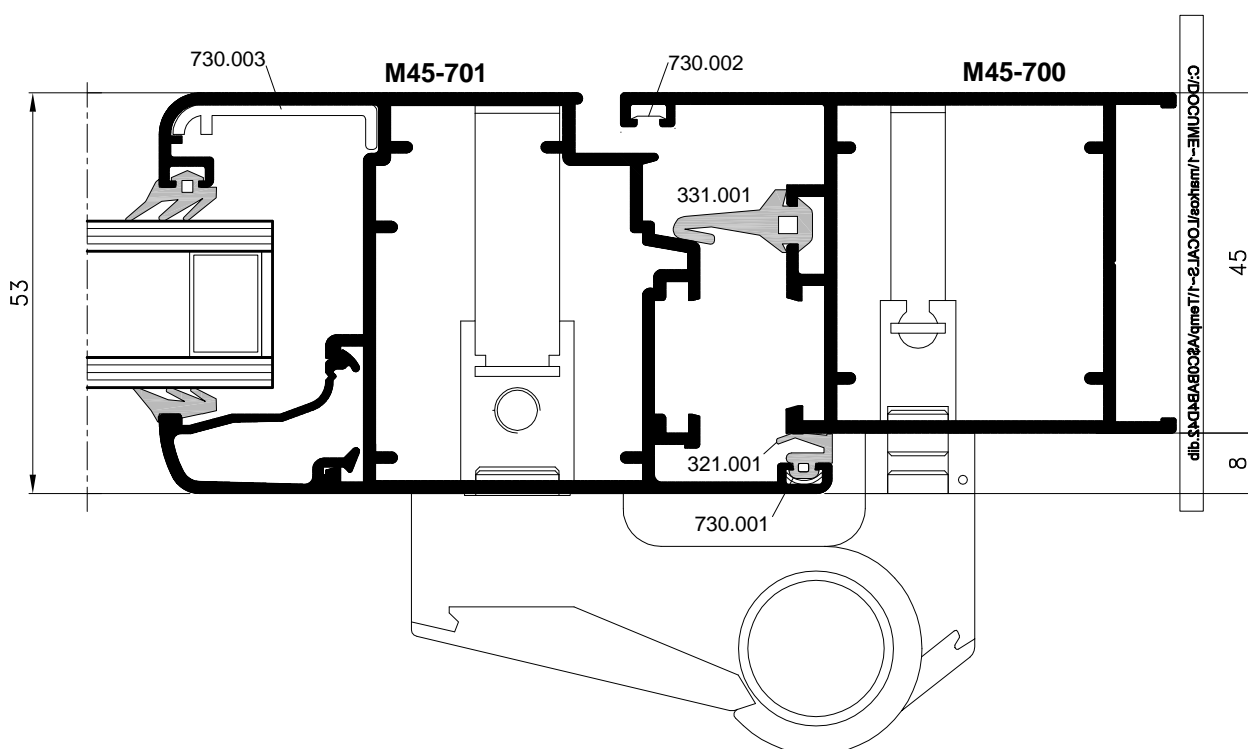
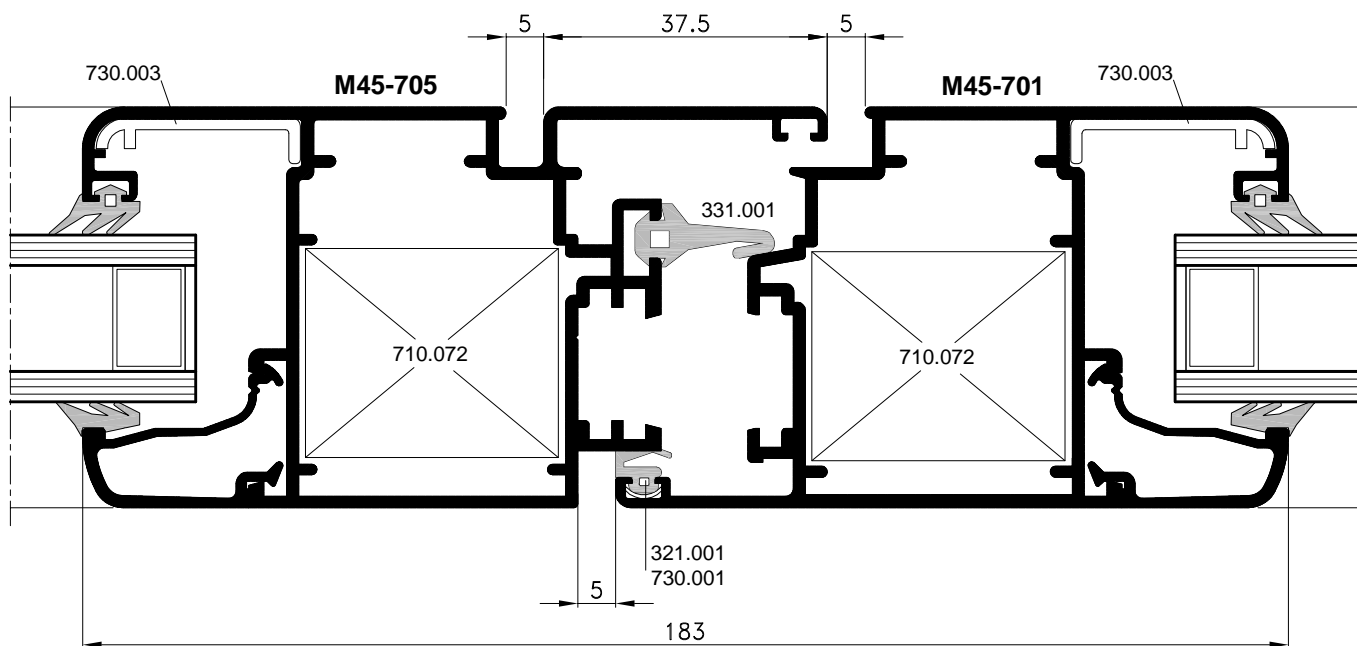
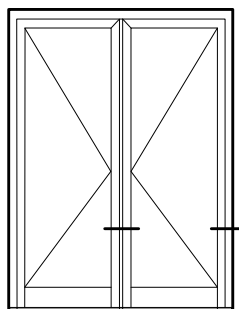




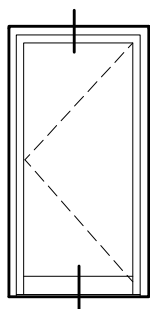




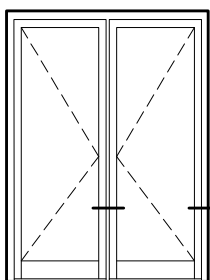




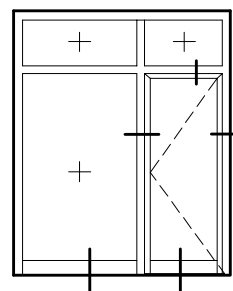




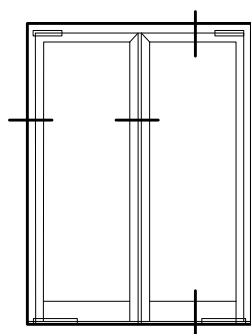
str. 10



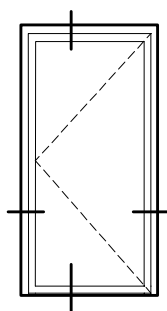
str. 11



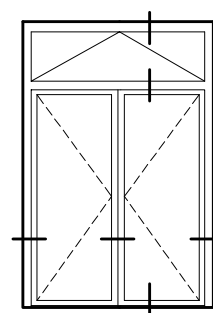
str. 12-14



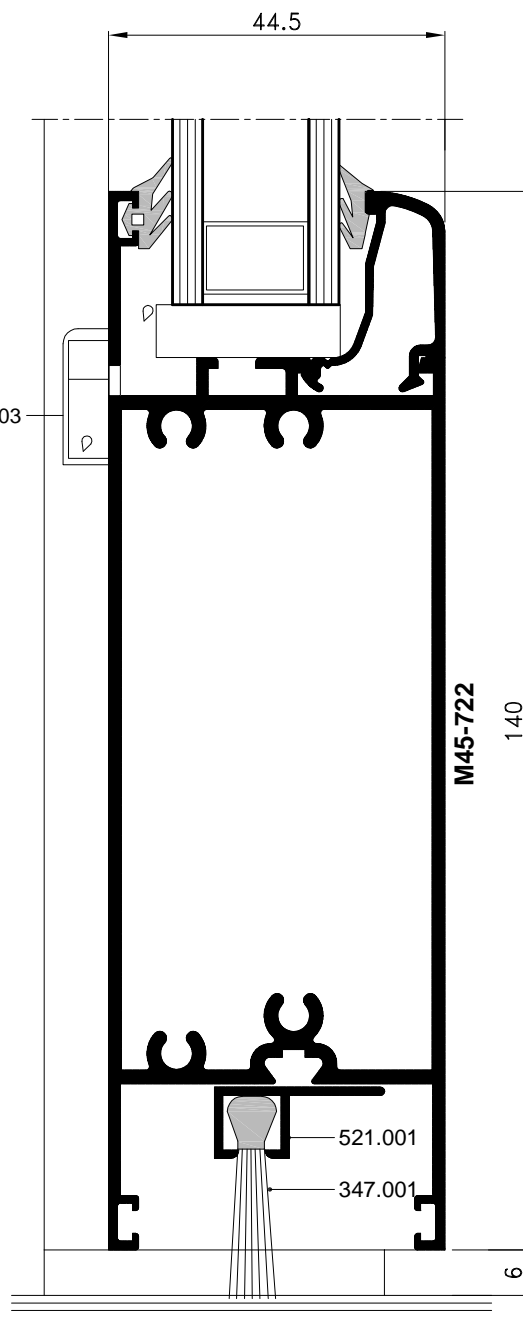
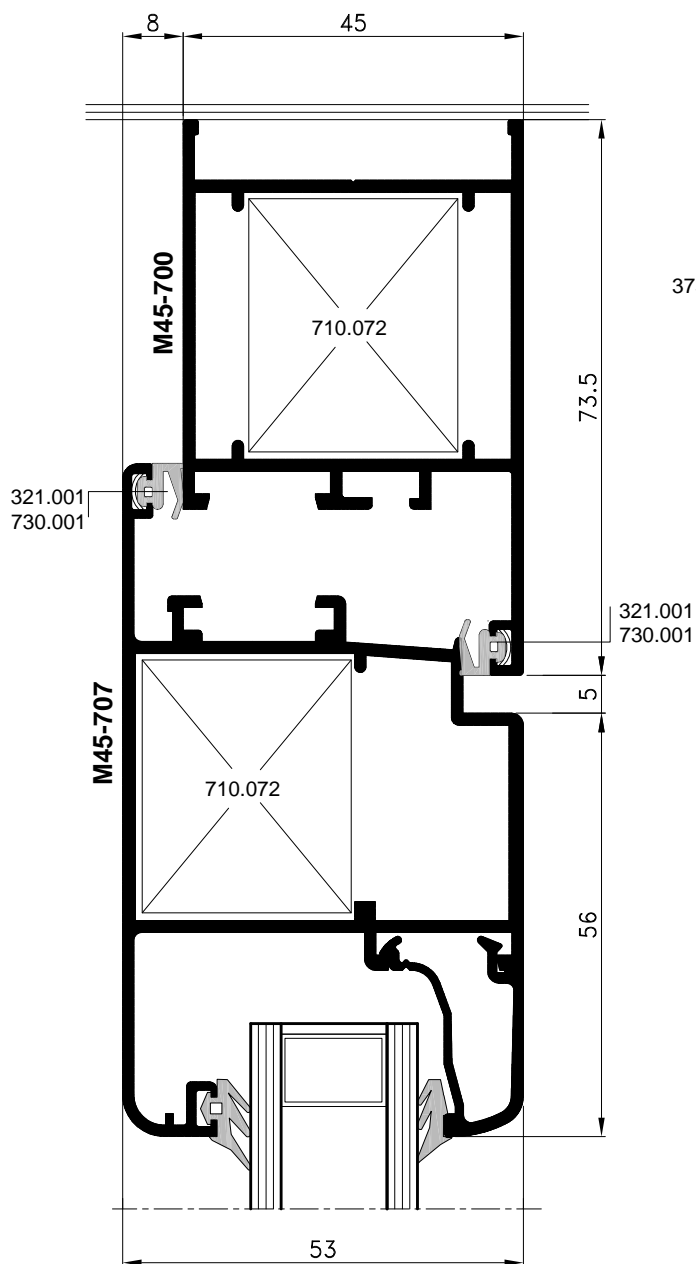
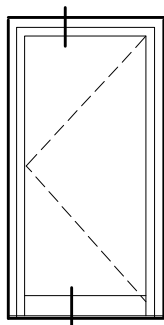
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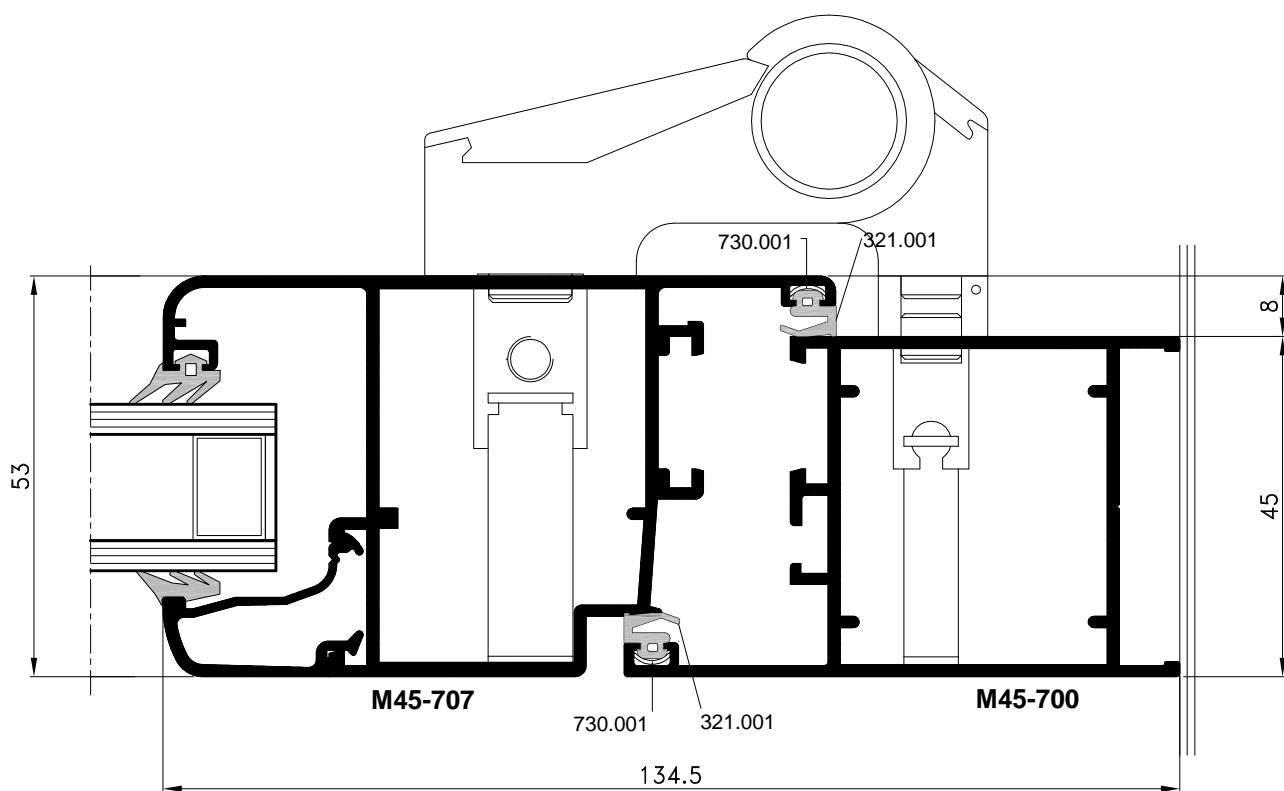
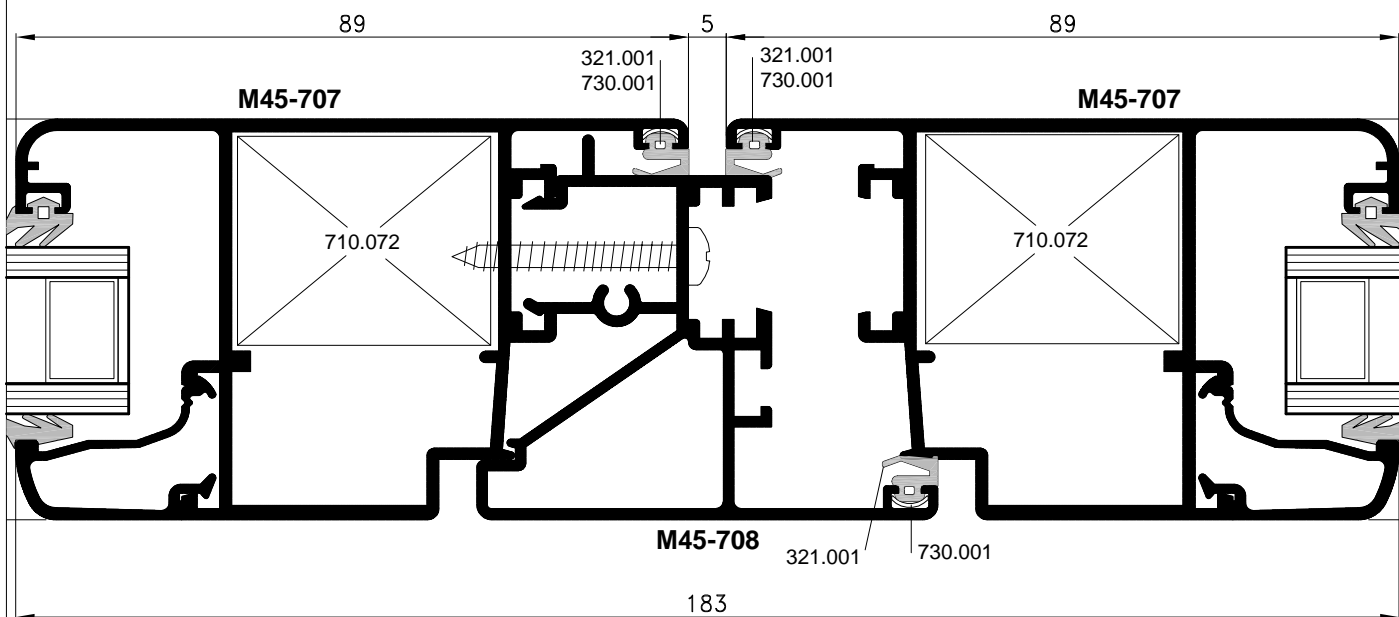
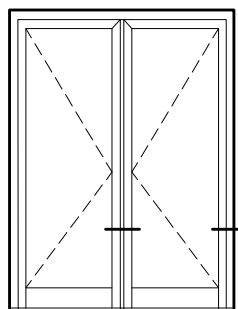


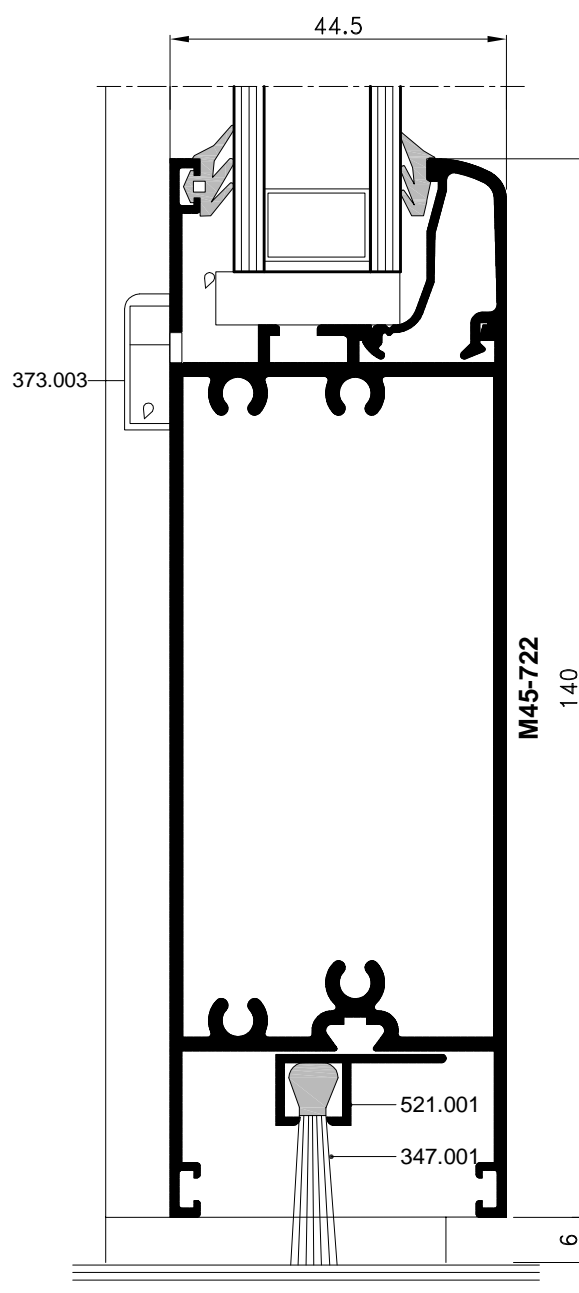
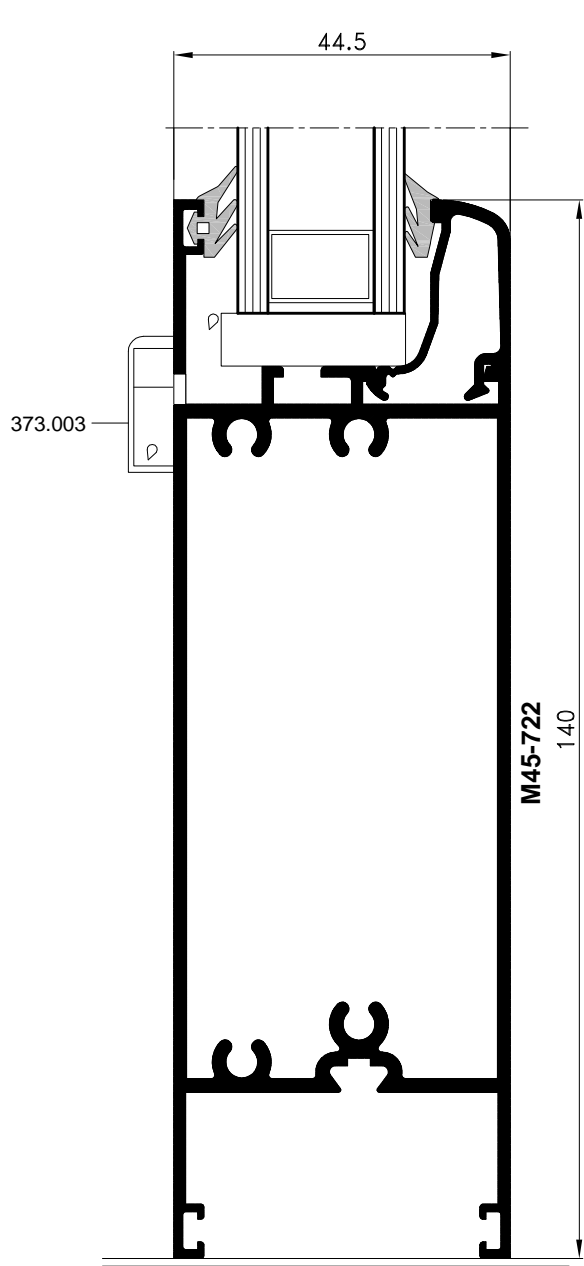
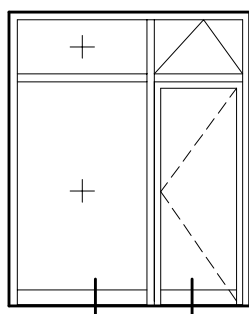
str. V5-V6

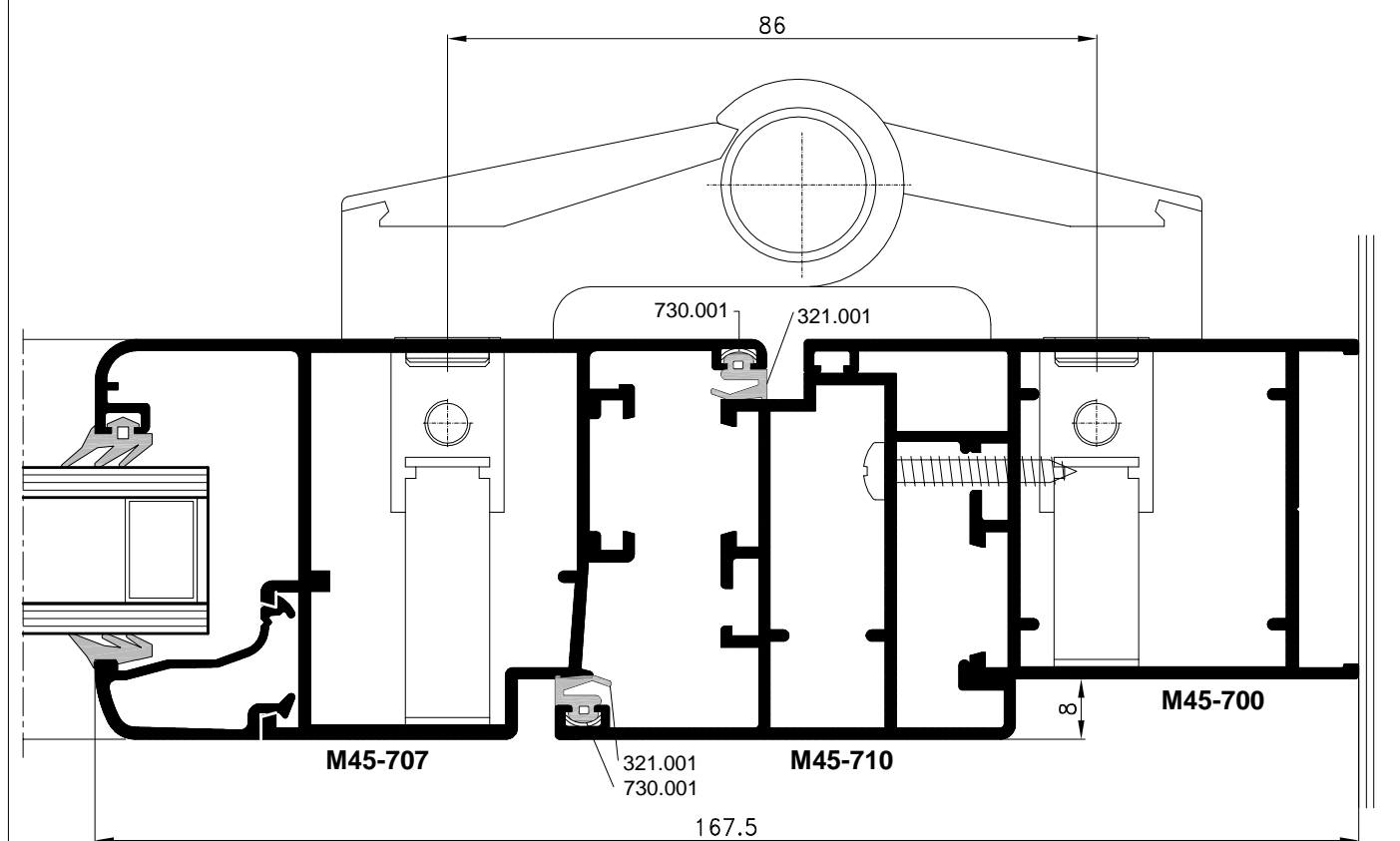
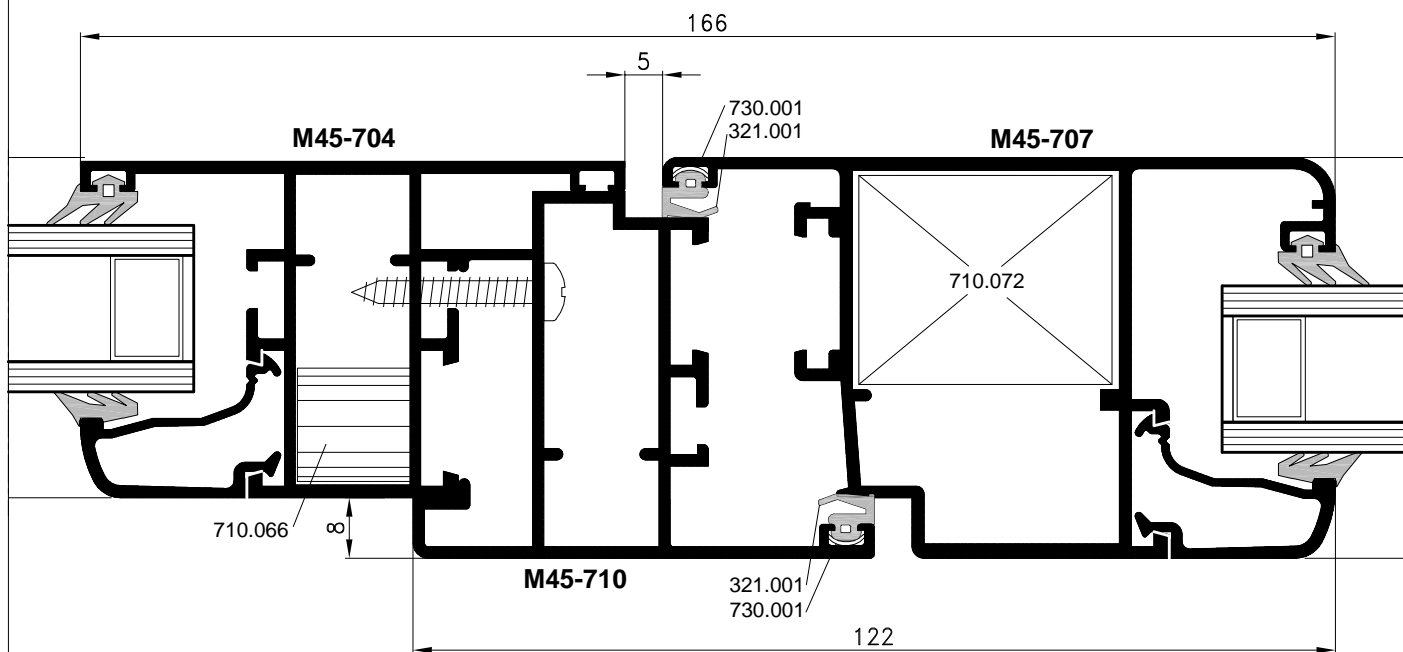
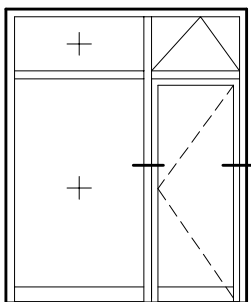


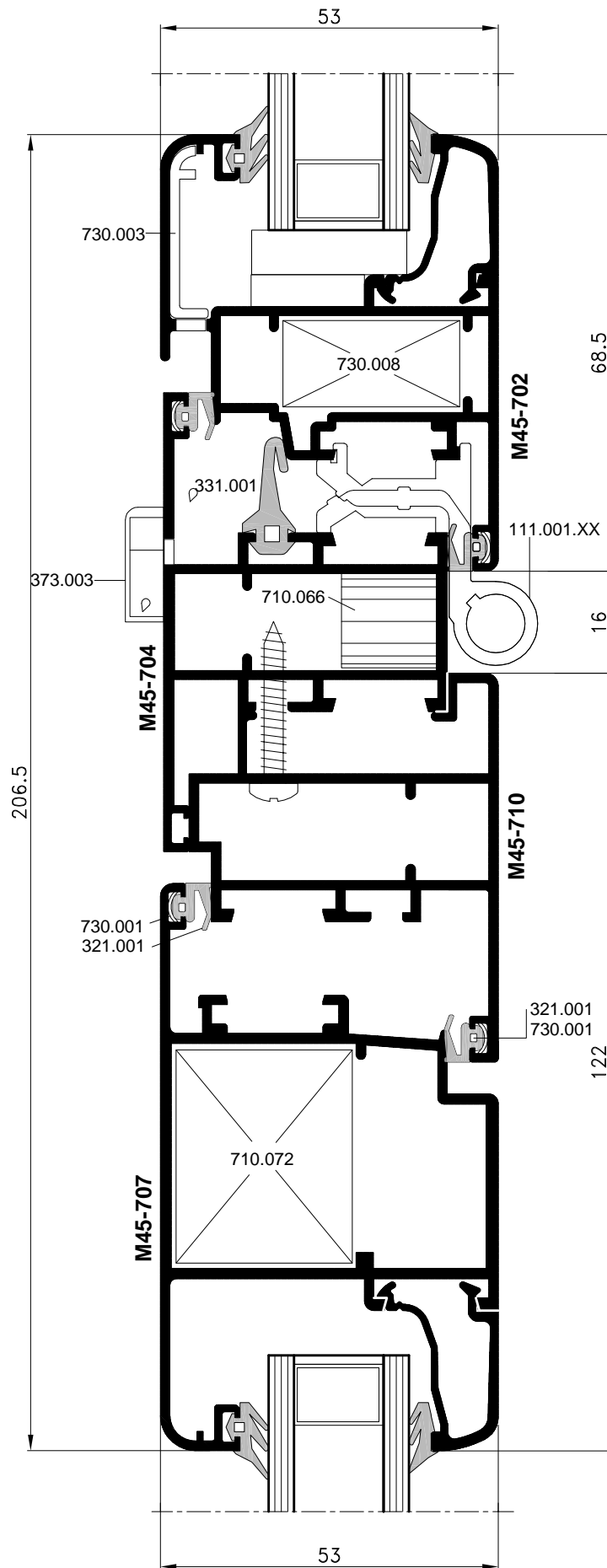
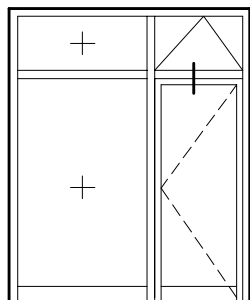
str. V7-V8

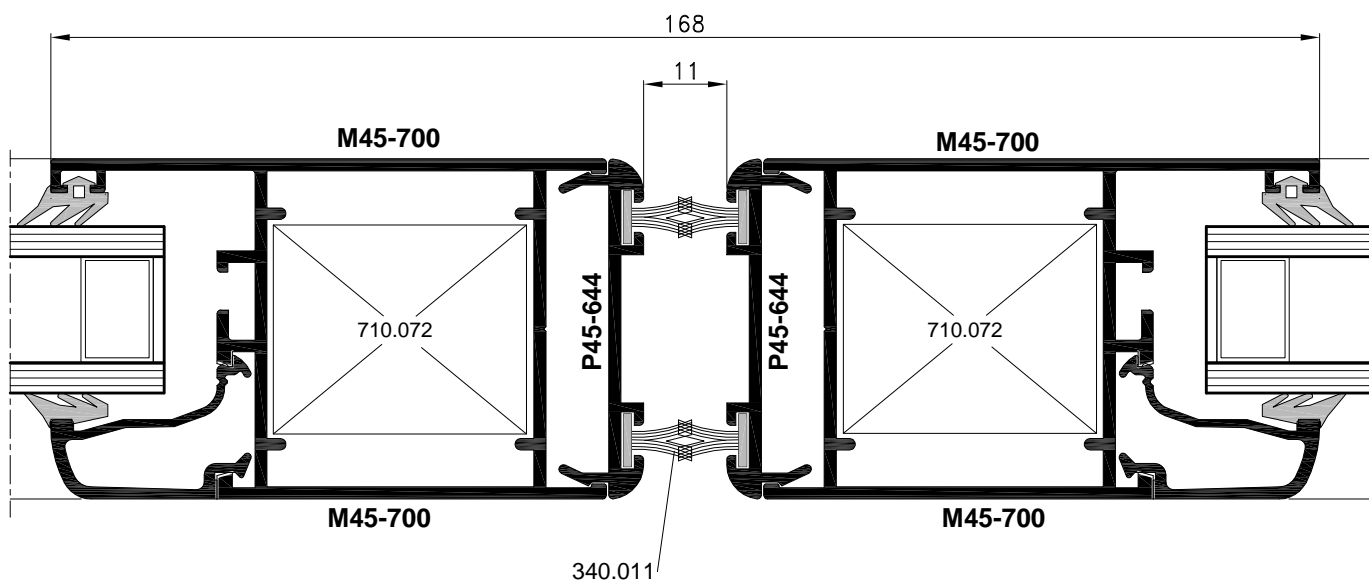
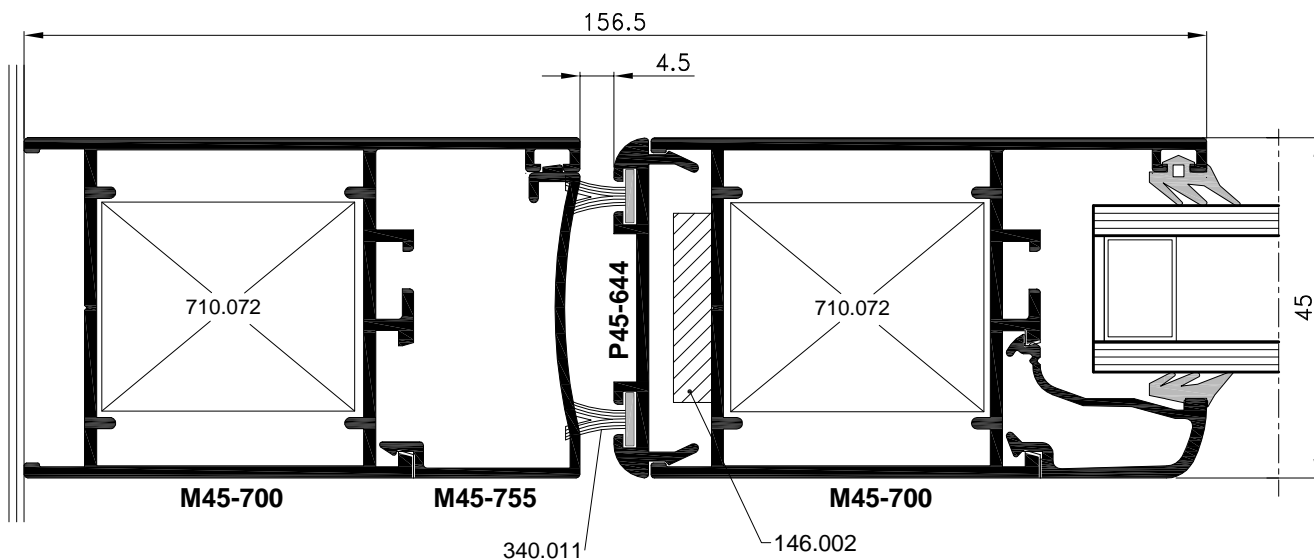
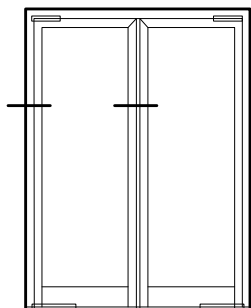


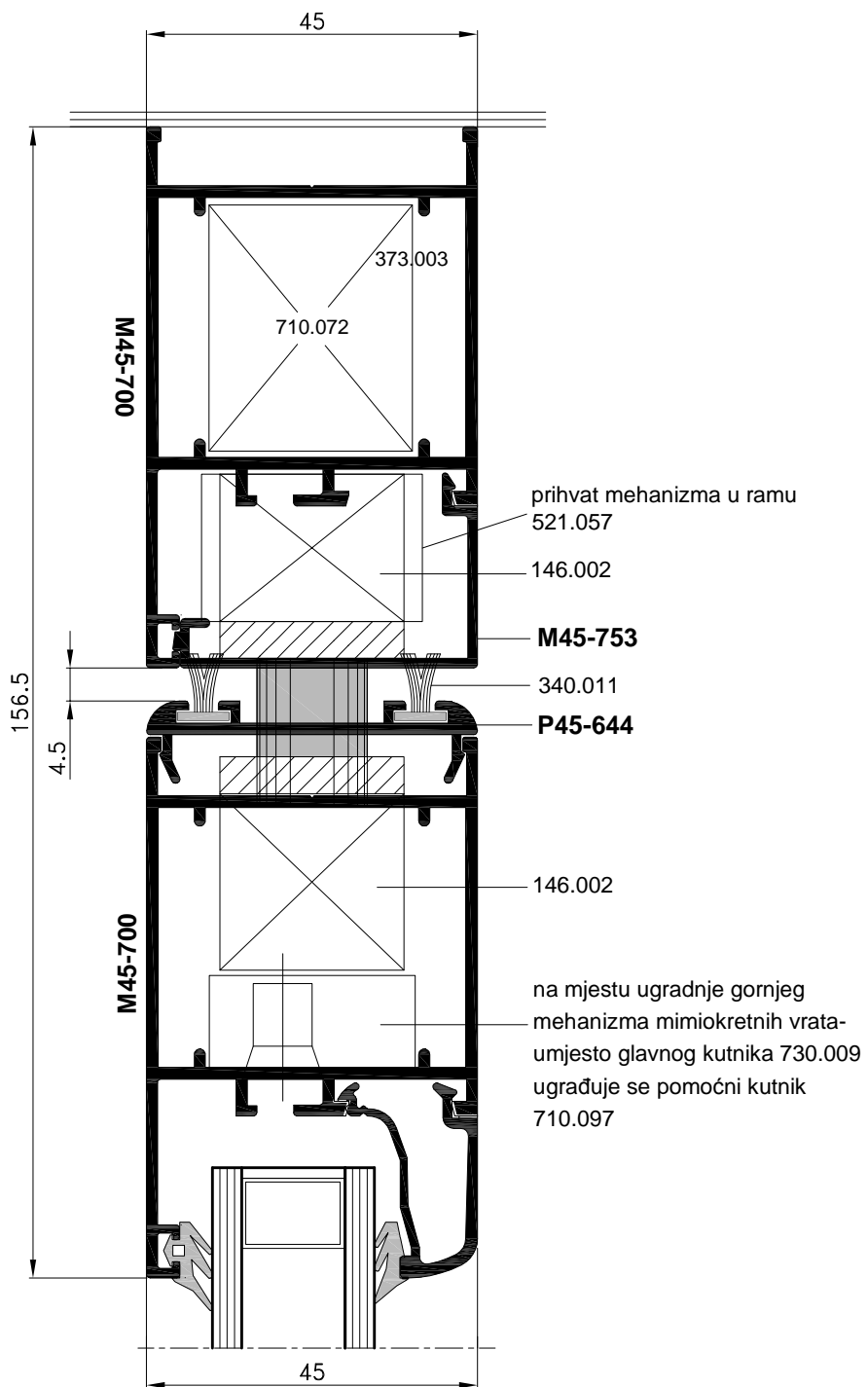
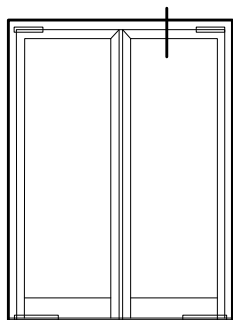




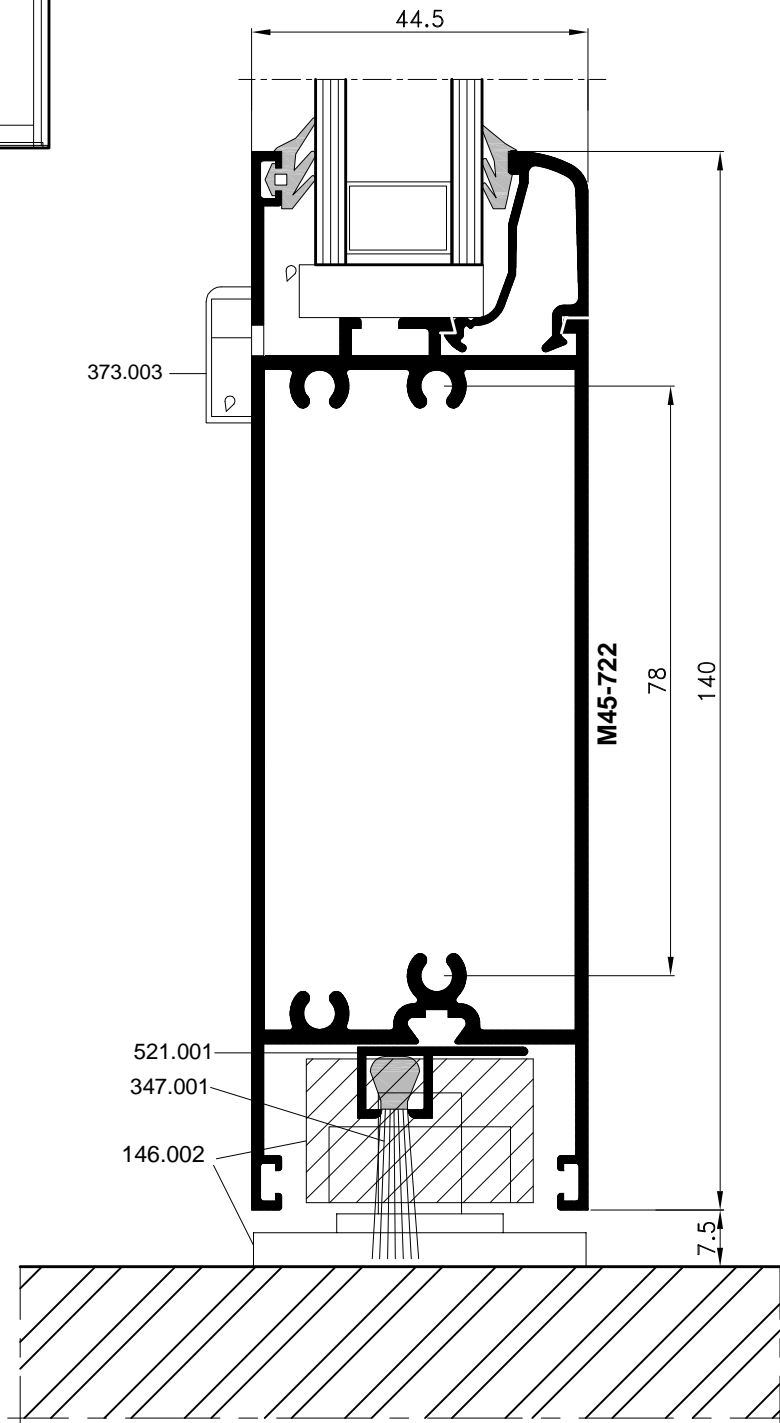
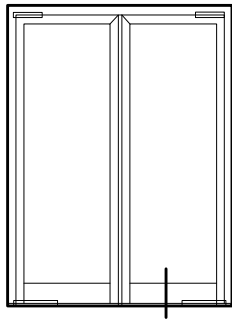


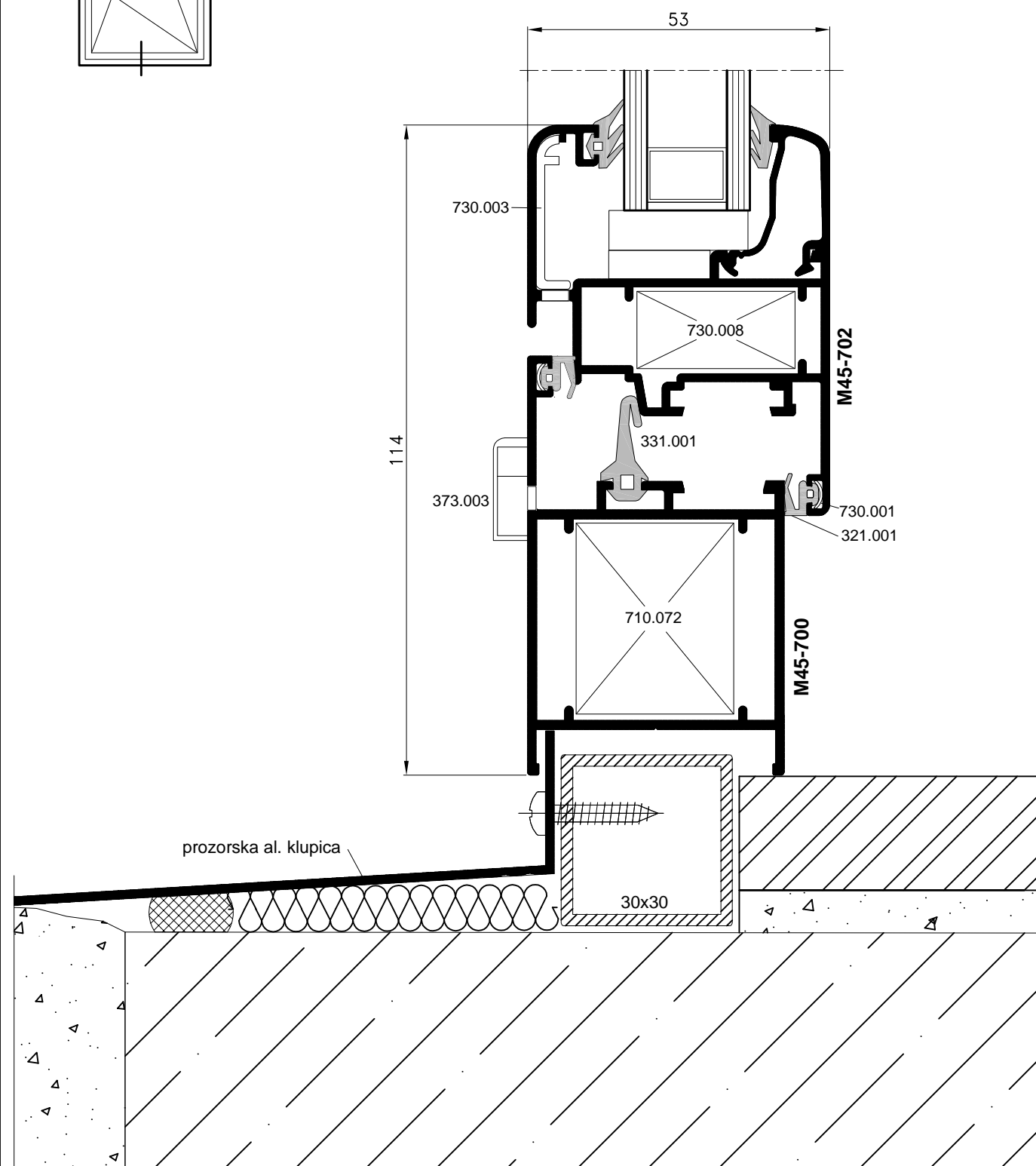
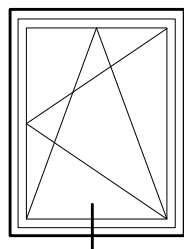


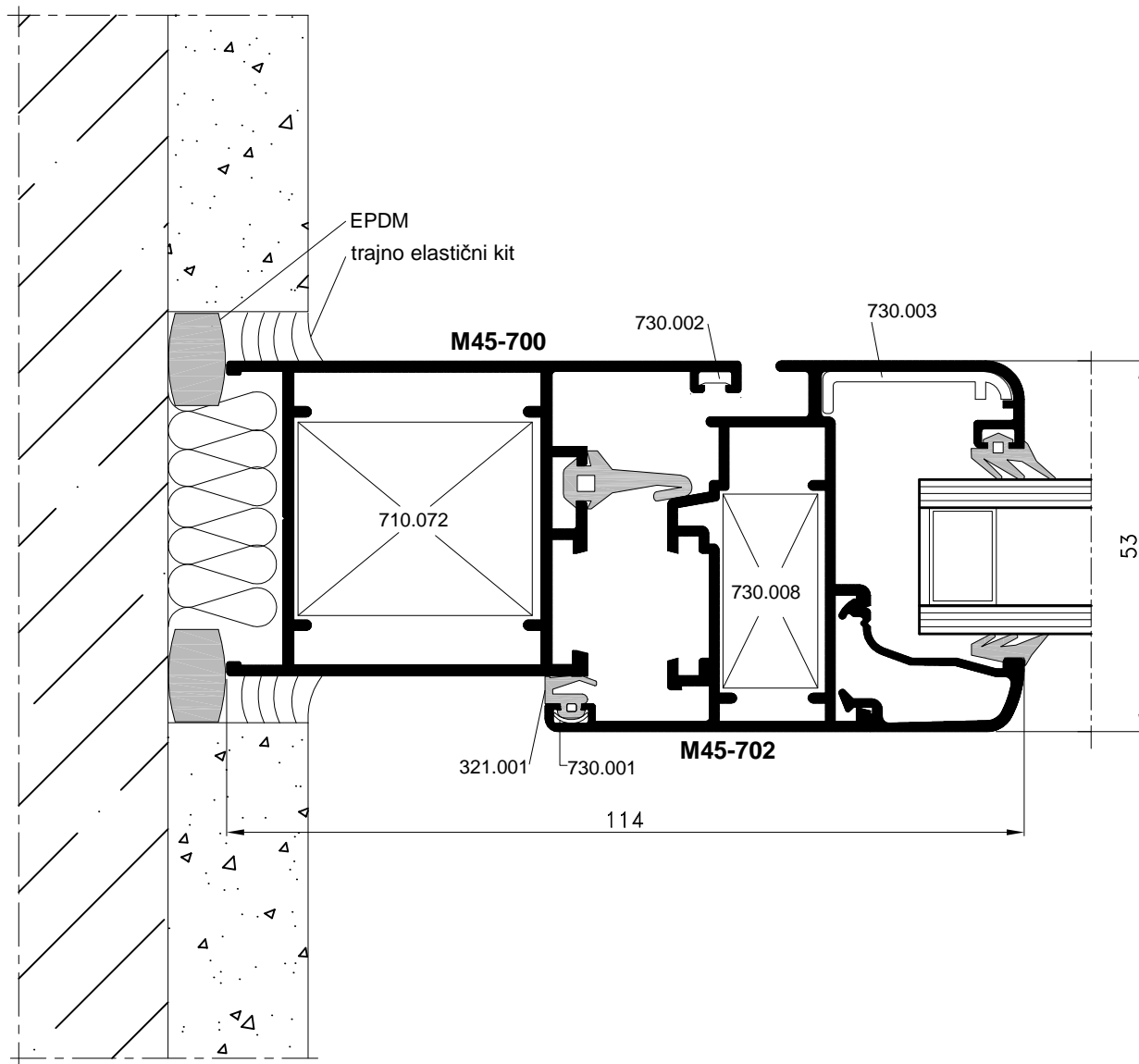
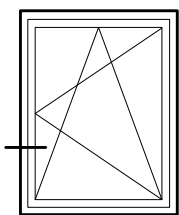


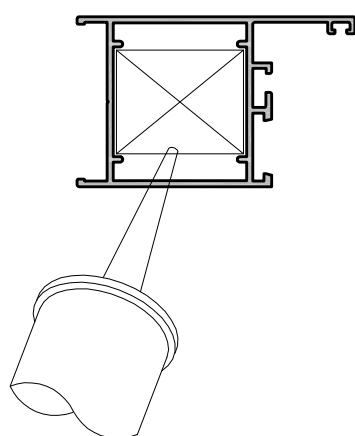
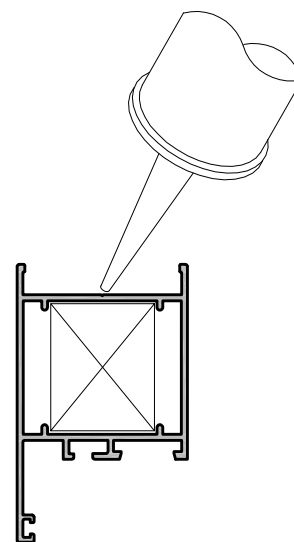
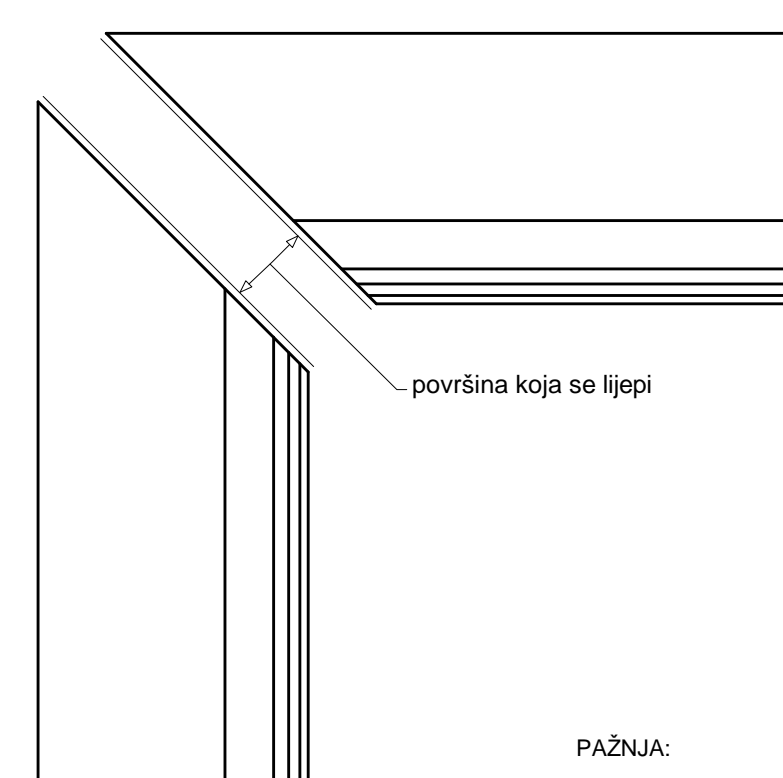
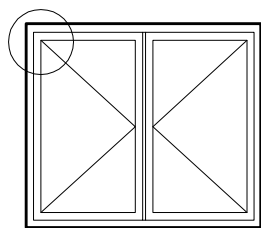






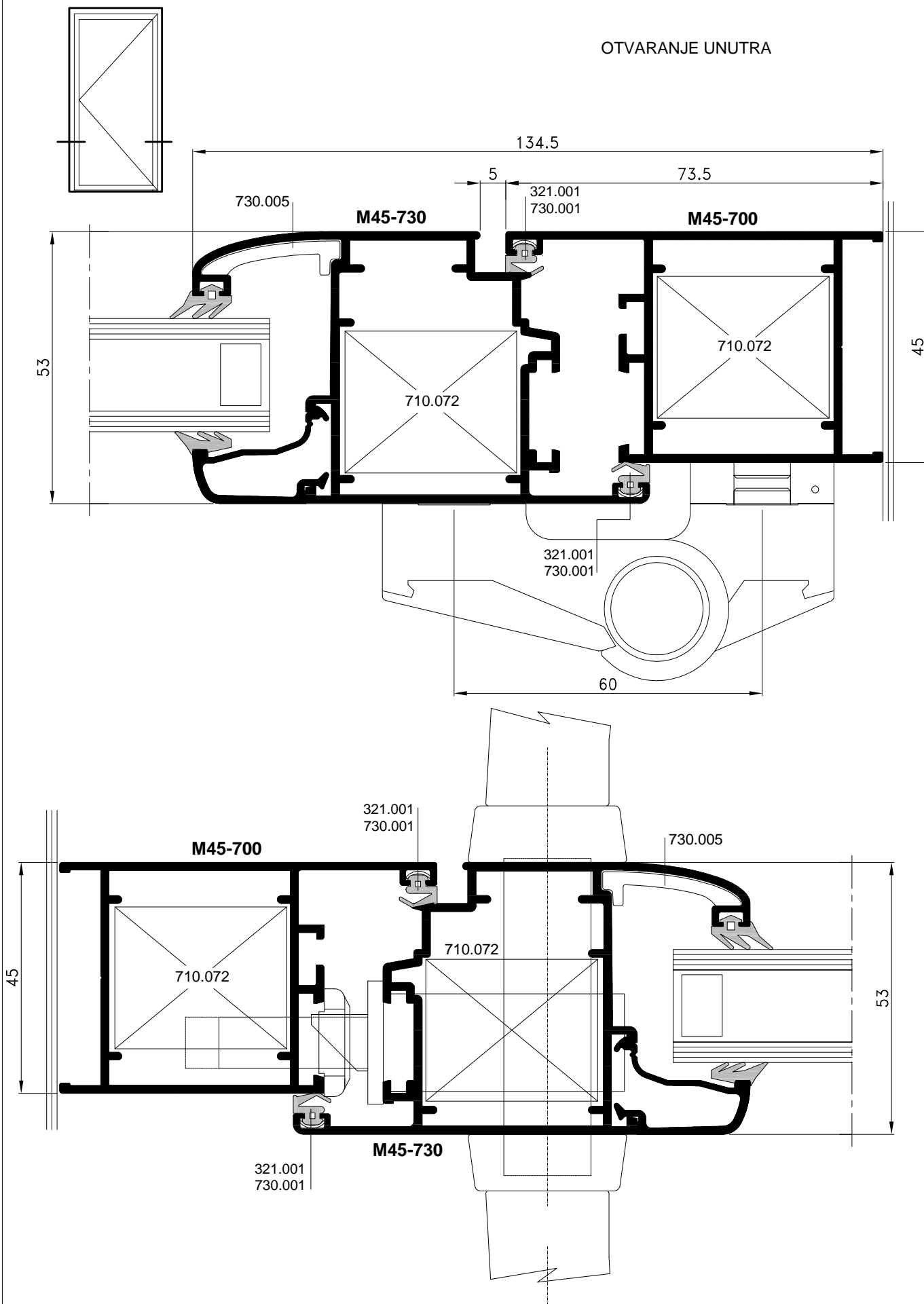


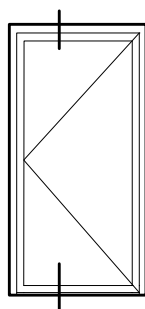


**PAŽNJA:**

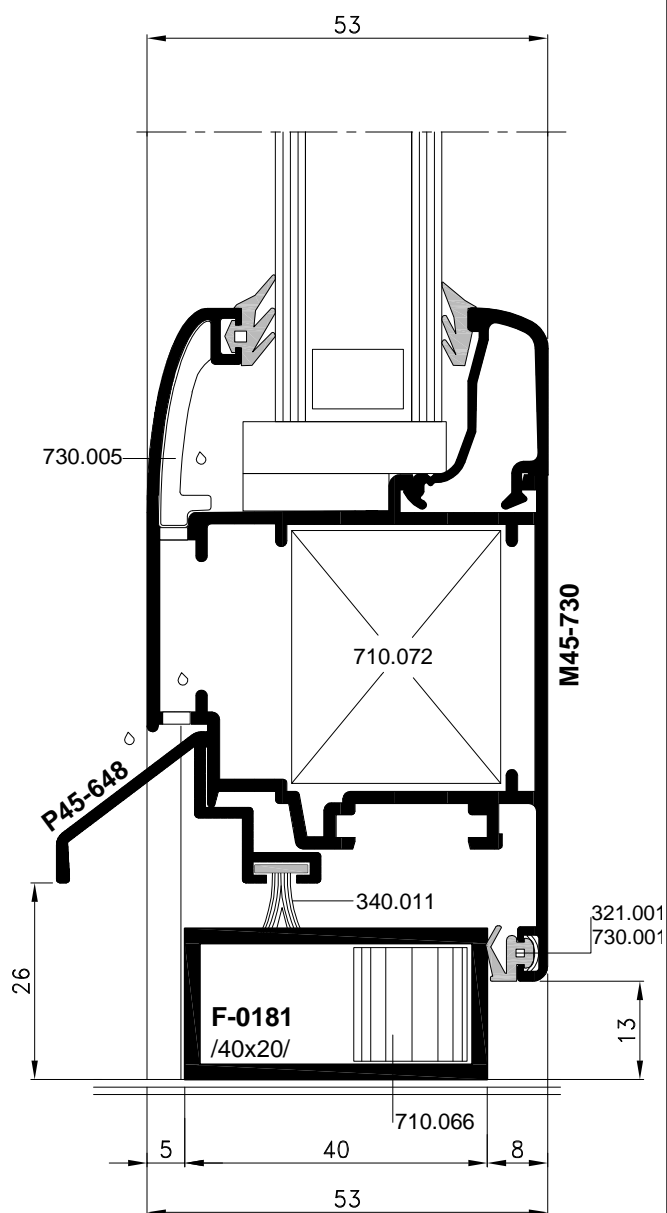
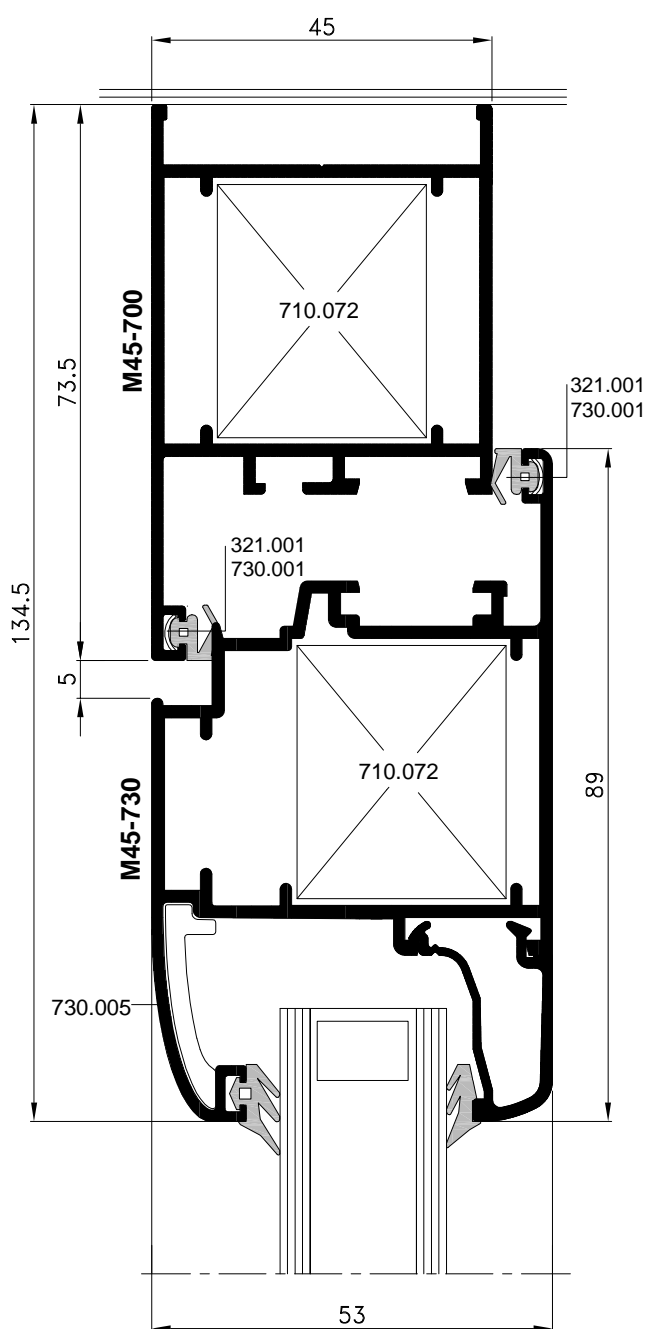
Prilikom sklapanja-montaže profila na mjestima veze profila kutnikom, sve dodirne površine profila sa profilom kao i površine dodira profila sa kutnikom lijepiti i zapuniti **dvokomponentnim kitom** radi osiguranja zaptivenosti spoja.

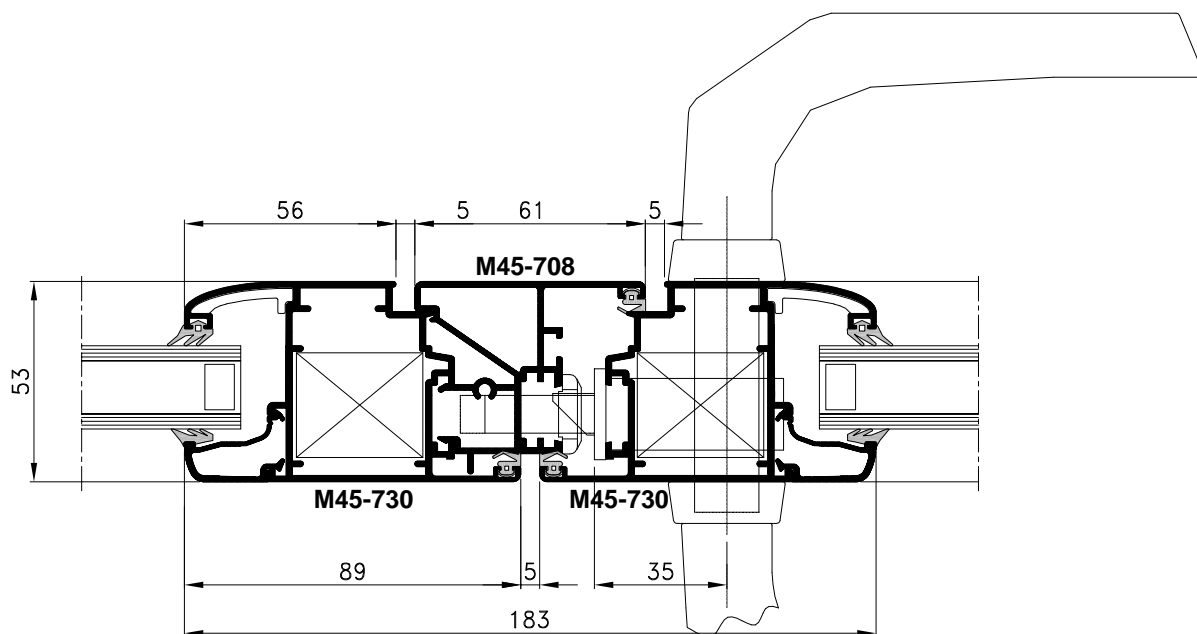
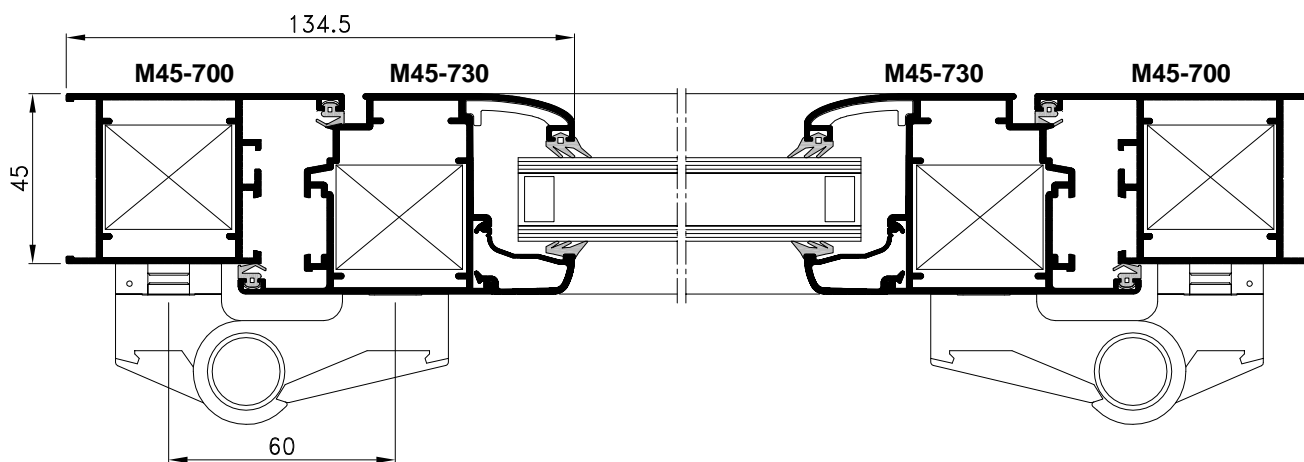
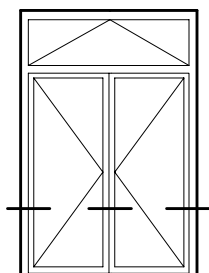
OTVARANJE UNUTRA

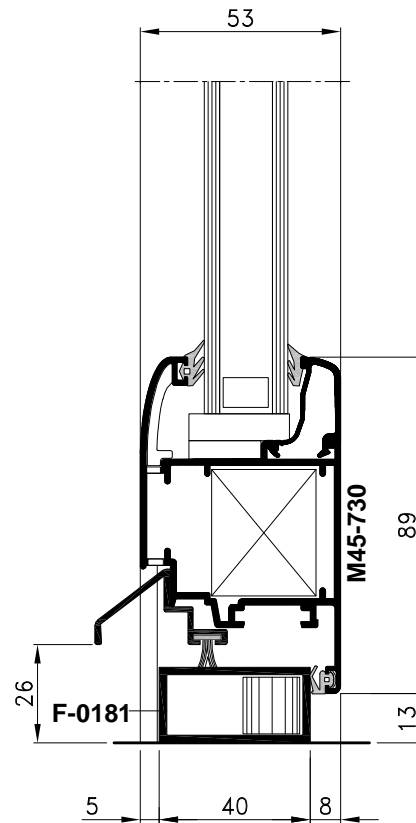
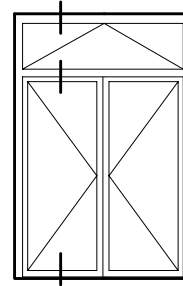
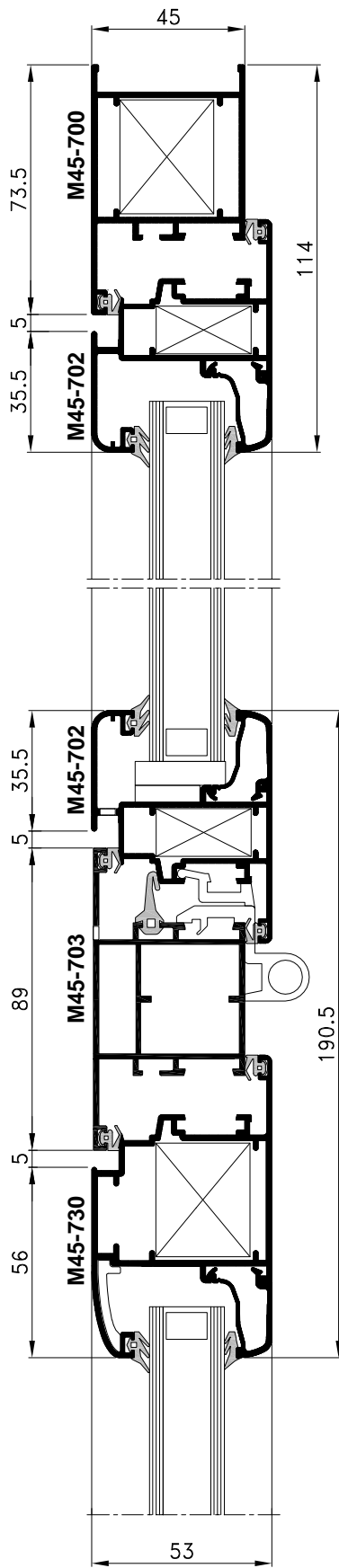




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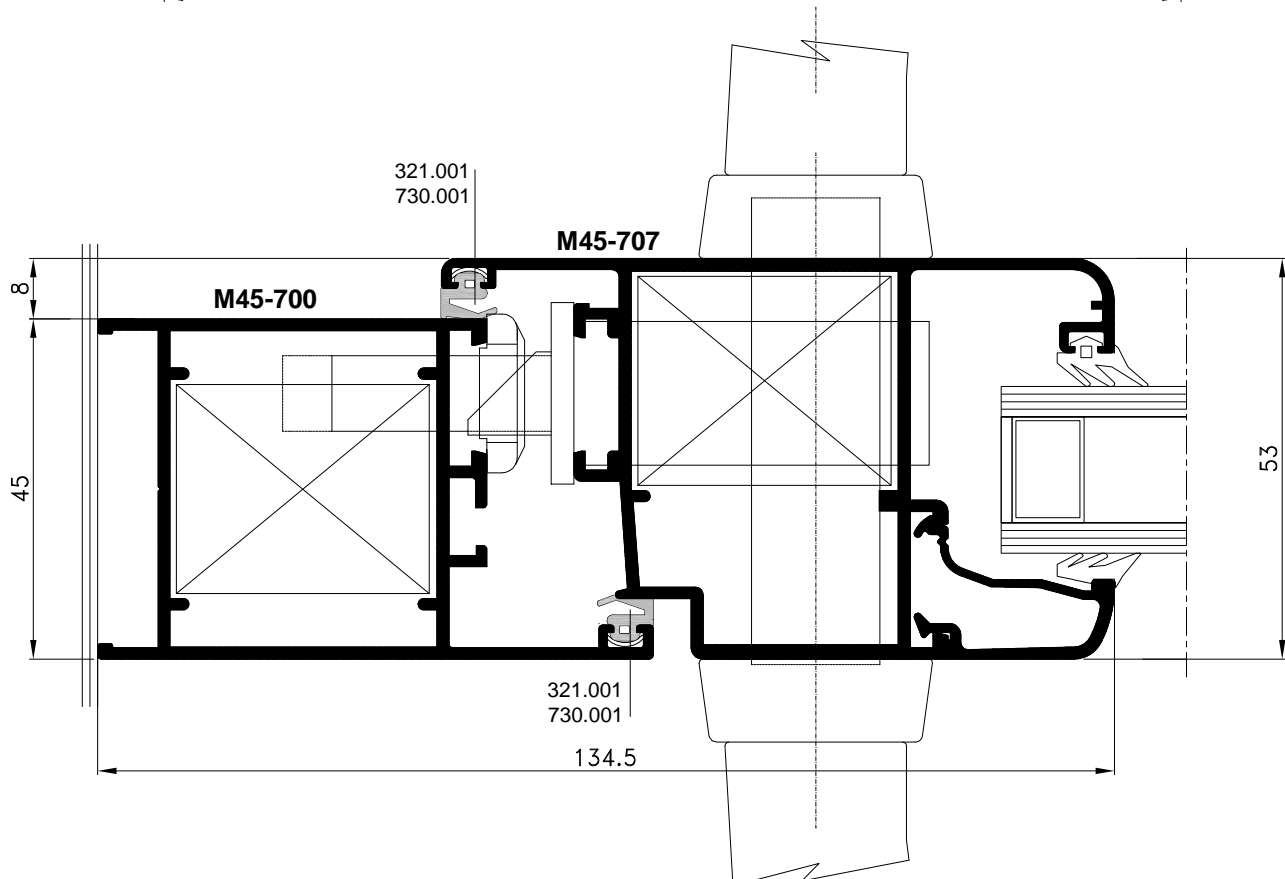
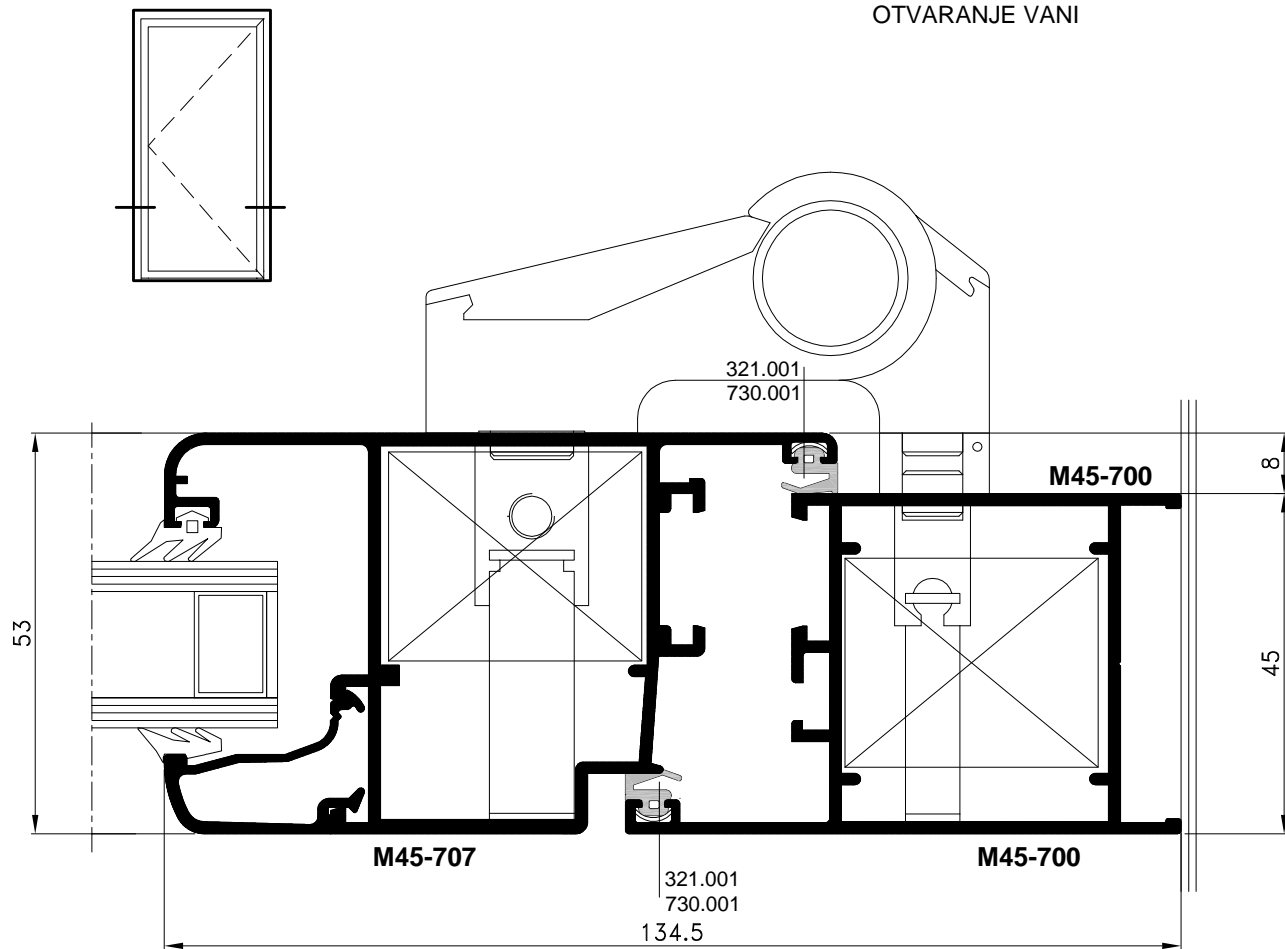


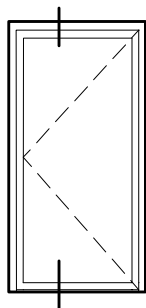




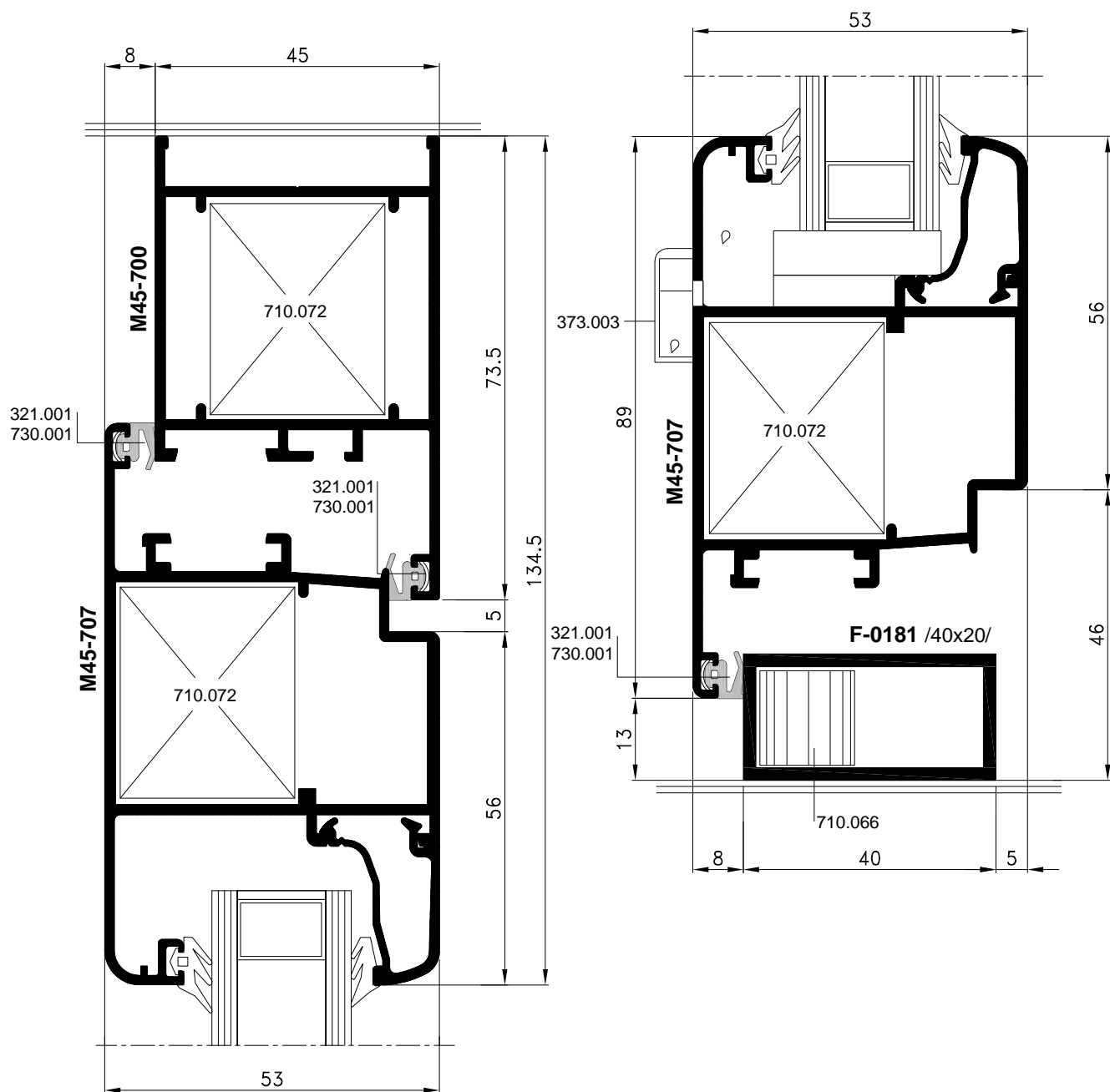


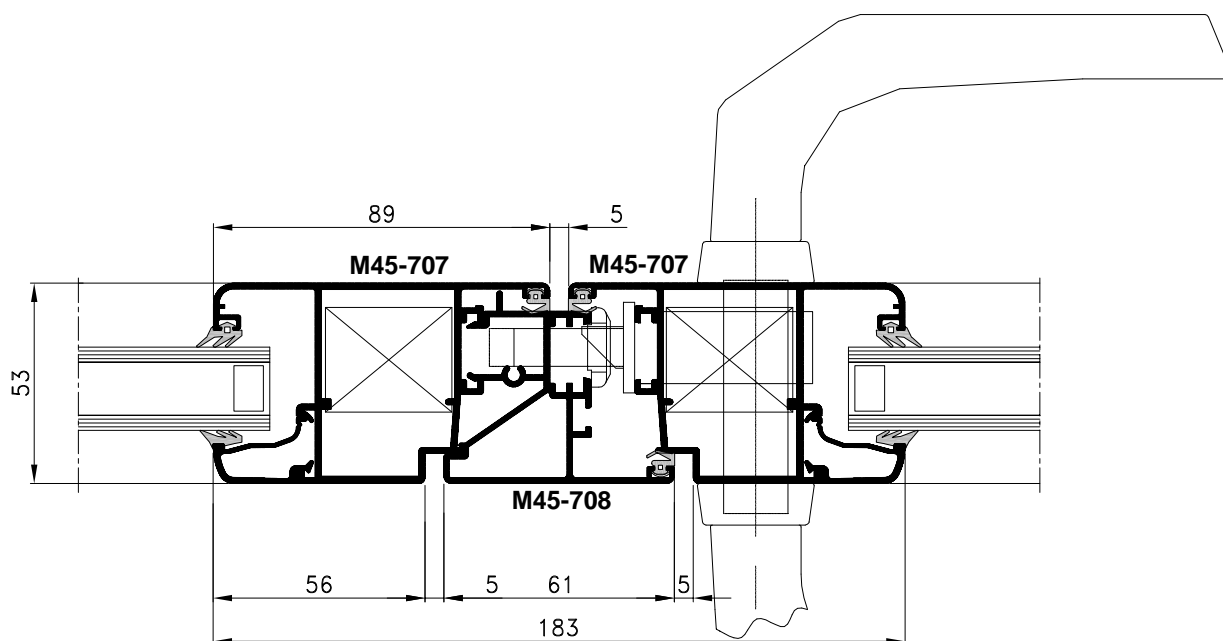
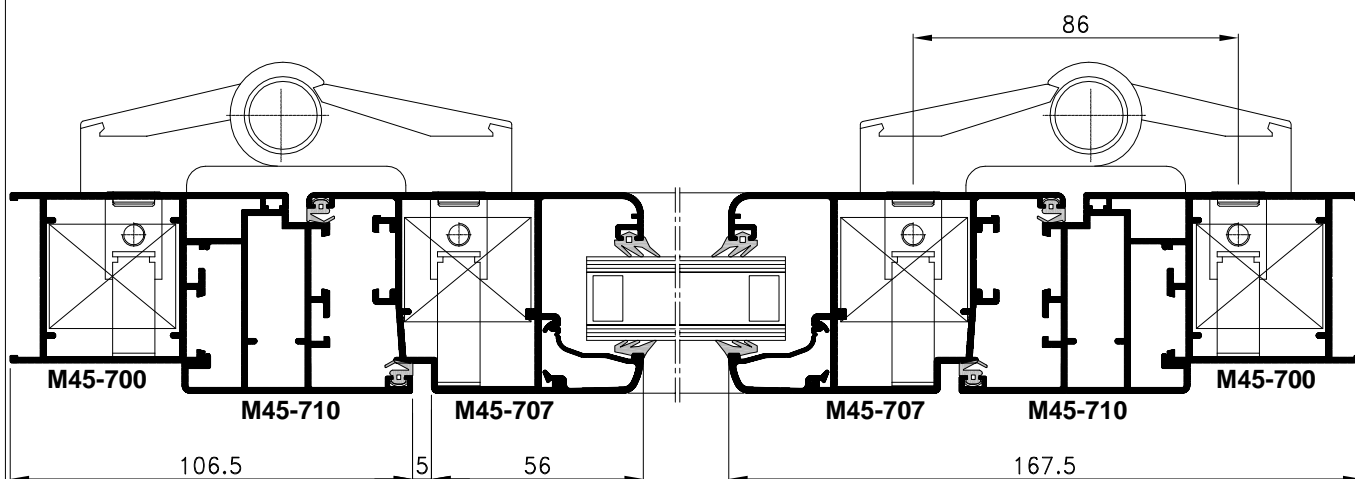
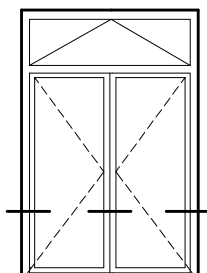
OTVARANJE VANI

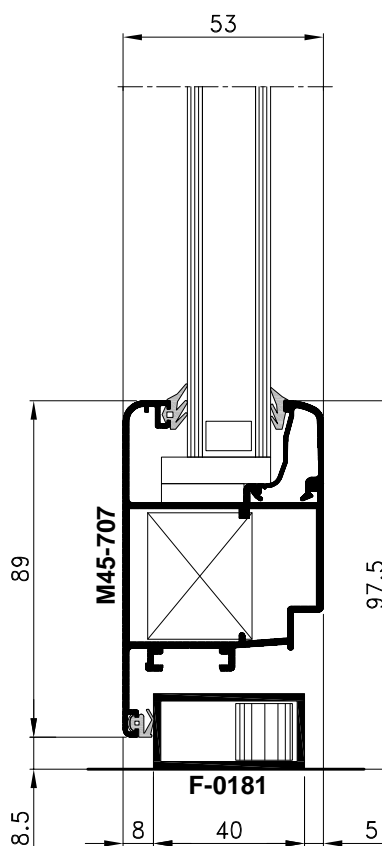
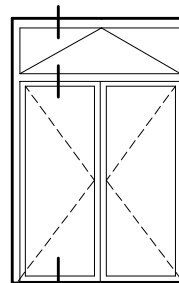
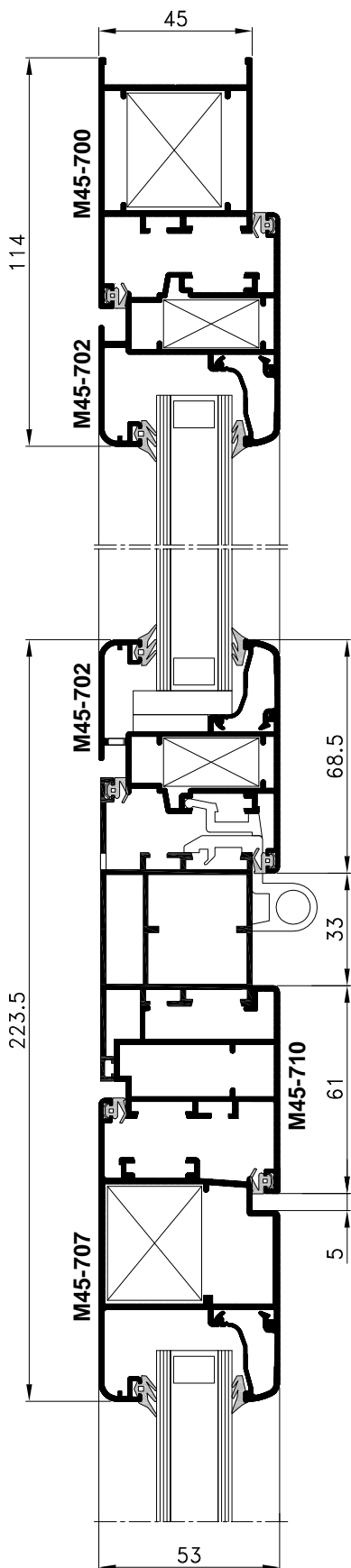


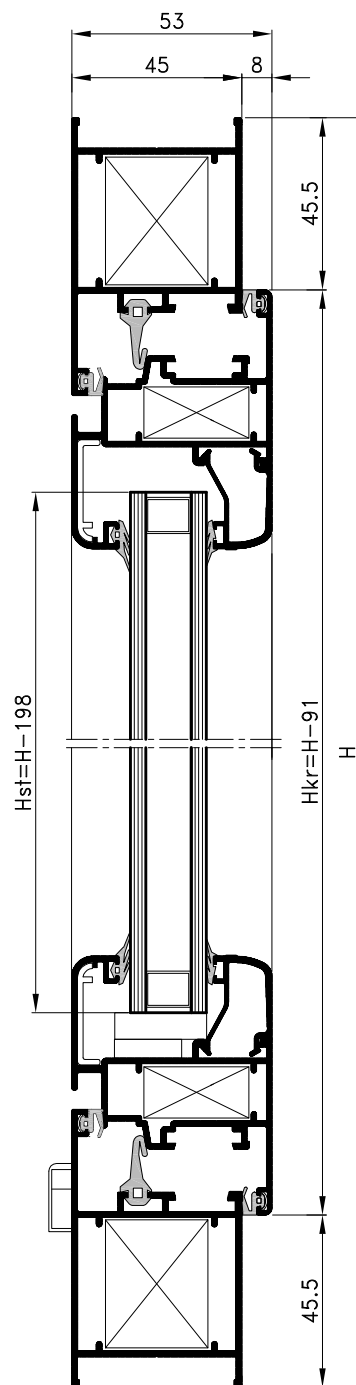
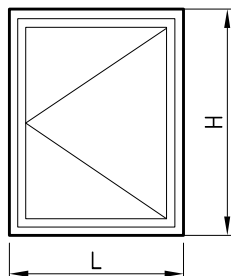


**OTVARANJE VANI**







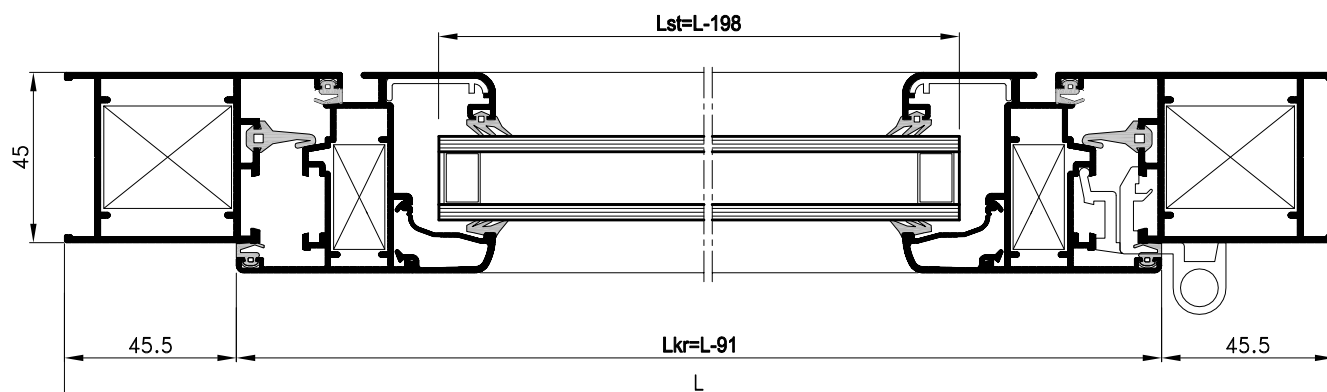


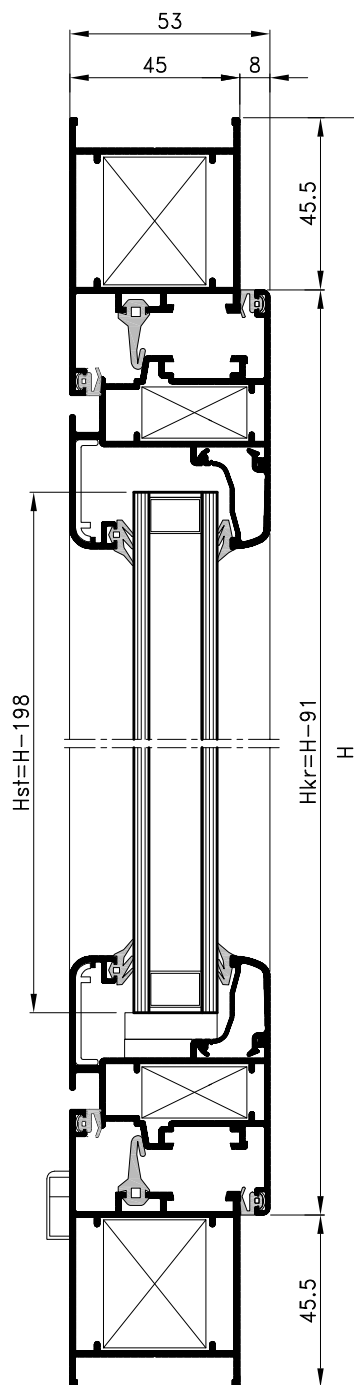
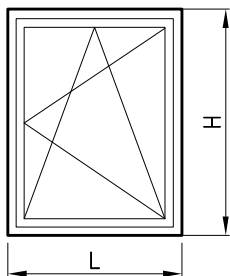
PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	2	L-91	45-45
M45-702	okomica krila	2	H-91	45-45
M45-740	vodoravna lajsna	2	L-174.8	45-45
M45-740	okomita lajsna	2	H-174.8	45-45
NC-1459	klizač			90-90

OKOVI		kom	
730.009	osnovni kutnik	4	
730.008	osnovni kutnik	4	
730.001	pomoćni kutnik	6	
730.002	pomoćni kutnik	2	
730.033	pomoćni kutnik	4	
111.001.XX	šarka	2	
104.002-XX	ručka prozora	1	
140.035	veza ručke i klizača	par	
143.014	zapinjač-nastavak klizača	2	
143.003	jednostrani prihvatač zapinjača	2	
373.003	maska za drenažni otvor	2	

BRTVE		kom	mjera
331.001	srednja brtva		2L+2H
321.001	brtva na spoju profila		3L+2H
311.002	brtva prema staklu		2L+2H
321.003	brtva prema staklu		2L+2H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		1	L-198 x H-198



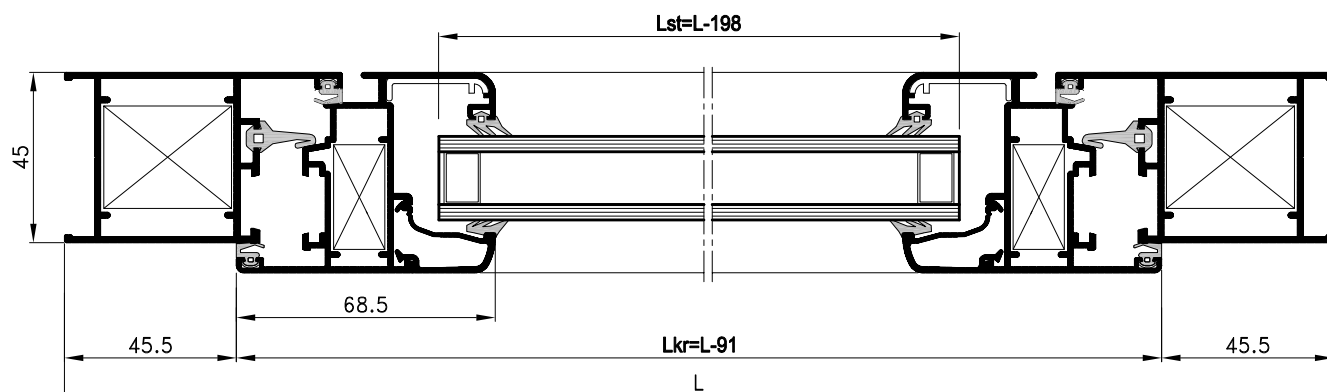


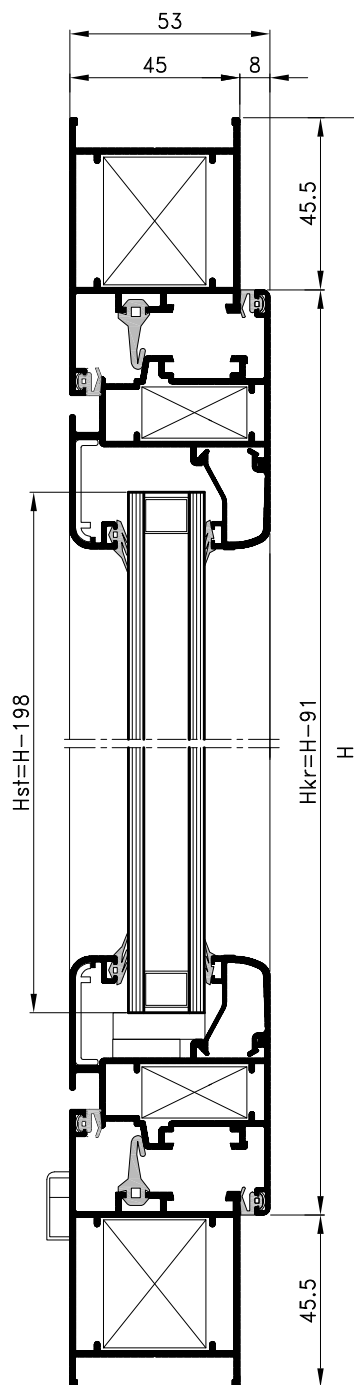
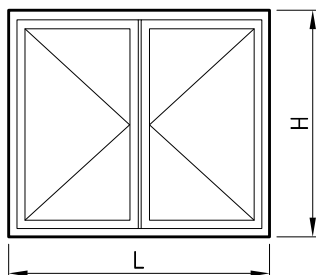
PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	2	L-91	45-45
M45-702	okomica krila	2	H-91	45-45
M45-740	vodoravna lajsna	2	L-174.8	45-45
M45-740	okomita lajsna	2	H-174.8	45-45
NC-1459	klizač			90-90

OKOVI		kom	
730.009	osnovni kutnik	4	
730.008	osnovni kutnik	4	
730.001	pomoćni kutnik	6	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	4	
134.001.XX	dry-kip mehanizam-komplet	1	
		1	
373.003	maska za drenažni otvor	2	

BRTVE		kom	mjera
331.001	srednja brtva		2L+2H
321.001	brtva na spoju profila		3L+2H
311.002	brtva prema staklu		2L+2H
321.002	brtva prema staklu		2L+2H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		1	L-198 x H-198



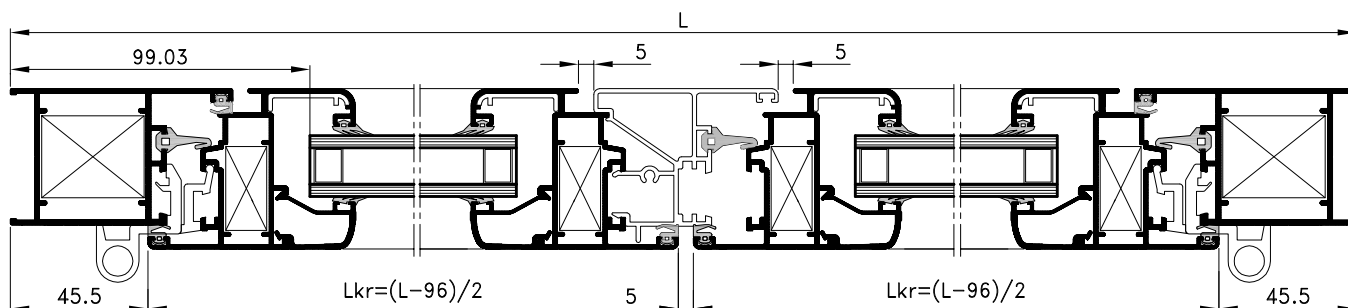


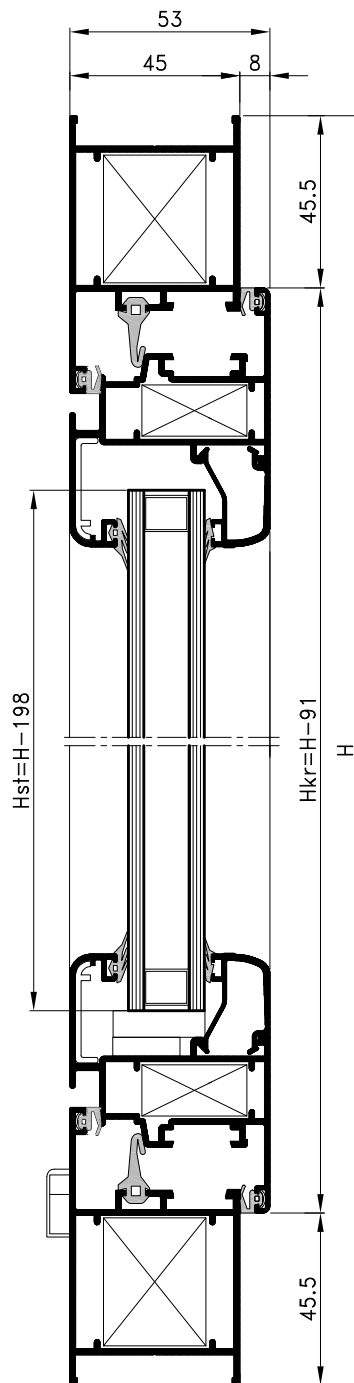
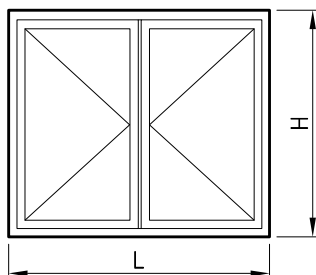
PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	4	L/2-48	45-45
M45-702	okomica krila	4	H-91	45-45
M45-708	profil za okretanje	1	H-159	90-90
M45-740	vodoravna lajsna	4	L/2-131.8	45-45
M45-740	okomita lajsna	4	H-174.8	45-45
NC-1459	klizač			90-90

OKOVI		kom	
730.009	osnovni kutnik	4	
730.008	osnovni kutnik	8	
730.001	pomoćni kutnik	10	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	8	
111.001.xx	šarka	4	
104.002.xx	ručka prozora	1	
140.035	veza ručke i klizača	par	
143.001	zapinjač-nastavak klizača	2	
143.002	zapinjač za pasivno kr.	2	
143.003	jednostrani prihvat zapinjača	4	
373.003	maska za drenažni otvor	2	
363.007	umetak za profil-dvokr.otv.	1+1	

BRTVE		kom	mjera
331.001	srednja brtva		2L+3H
321.001	brtva na spoju profila		3L+4H
311.002	brtva prema staklu		2L+4H
321.002	brtva prema staklu		2L+4H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		2	L/2-155 x H-198



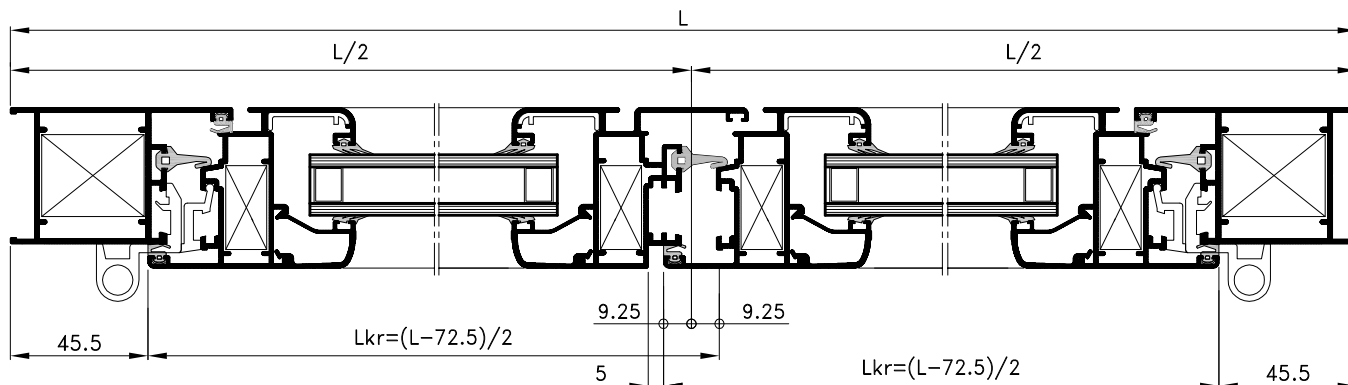


PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	4	$(L-72.5)/2$	45-45
M45-702	okomica krila	3	H-91	45-45
M45-706	okomica krila	1	H-72	45-45
M45-740	vodoravna lajsna	4	$(L-240.1)/2$	45-45
M45-740	okomita lajsna	4	H-174.8	45-45
NC-1459	klizač			90-90

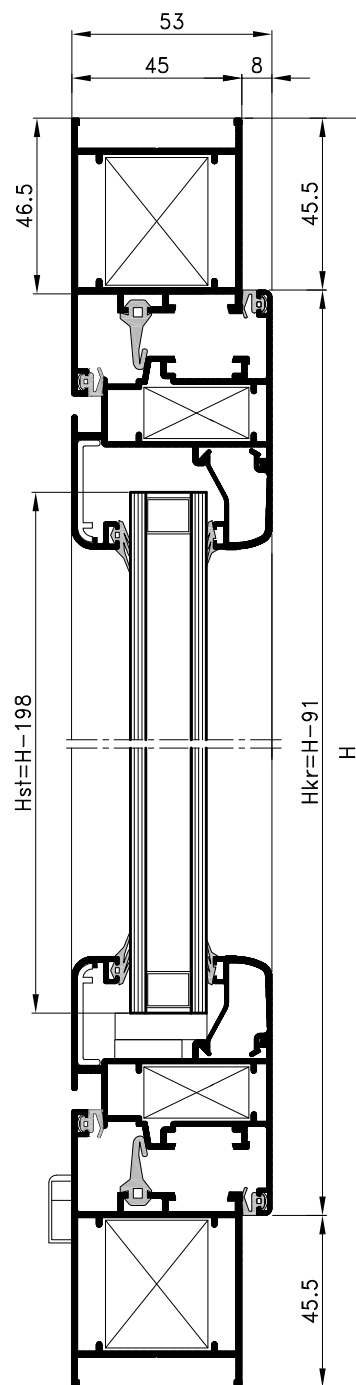
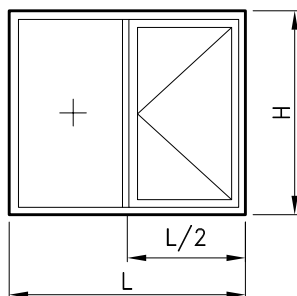
OKOVI		kom	
730.009	osnovni kutnik	4	
730.008	osnovni kutnik	8	
730.001	pomoćni kutnik	8	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	8	
111.001.xx	šarka	4	
104.002.xx	ručka prozora	1	
140.035	veza ručke i klizača	par	
143.001	zapinjač-nastavak klizača	2	
143.002	zapinjač za pasivno kr.	2	
143.003	dvostrani prihvat zapinjača	2	
373.003	maska za drenažni otvor	2	
GT 101	umeci za profil-dvokr.otv.	1+1	

BRTVE		kom	mjera
331.001	srednja brtva		2L+3H
321.001	brtva na spoju profila		3L+4H
311.002	brtva prema staklu		2L+4H
321.002	brtva prema staklu		2L+4H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		2	$L/2-143.3 \times H-198$





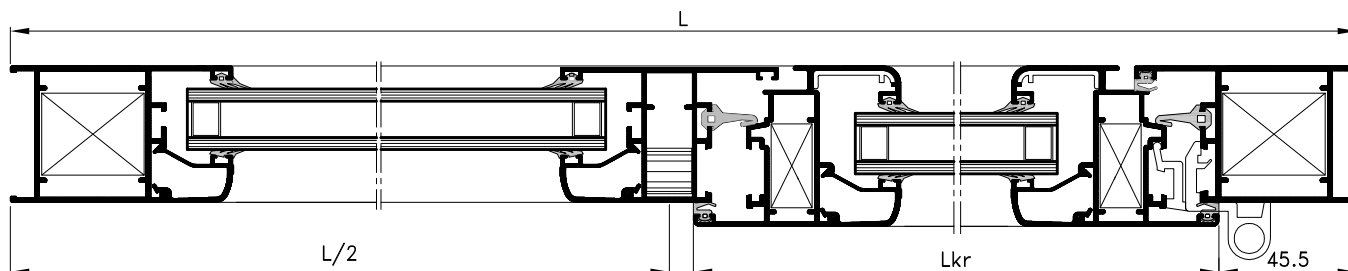


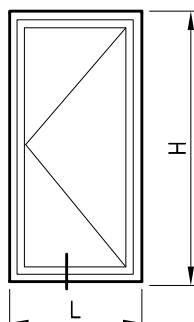
PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	2	L/2-53.5	45-45
M45-702	okomica krila	2	H-91	45-45
M45-704	prečka	1	H-93	90-90
M45-740	vodoravna lajsna krila	2	L/2-137.3	45-45
M45-740	okomita lajsna krila	2	H-174.8	45-45
M45-740	vodoravna lajsna fiksno	2	L/2-56.3	45-45
M45-740	okomita lajsna fiksno	2	H-93.8	45-45
NC-1459	klizač			90-90

OKOVI		kom	
730.009	osnovni kutnik	4	
730.008	osnovni kutnik	4	
730.001	pomoćni kutnik	6	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	4	
111.001.xx	šarka	2	
104.002.xx	ručka prozora	1	
140.035	veza ručke i klizača	par	
143.001	zapinjač-nastavak klizača	2	
143.004	jednostrani prihvat zapinjača	2	
373.003	maska za drenažni otvor	2	
710.066	veznik	2	

BRTVE		kom	mjera
331.001	srednja brtva		L+2H
321.001	brtva na spoju profila	3	L/2+2H
311.002	brtva prema staklu		2L+4H
321.002	brtva prema staklu		2L+4H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		1	L/2-160.5 x H-198
20 mm		1	L/2-79.5 x H-117



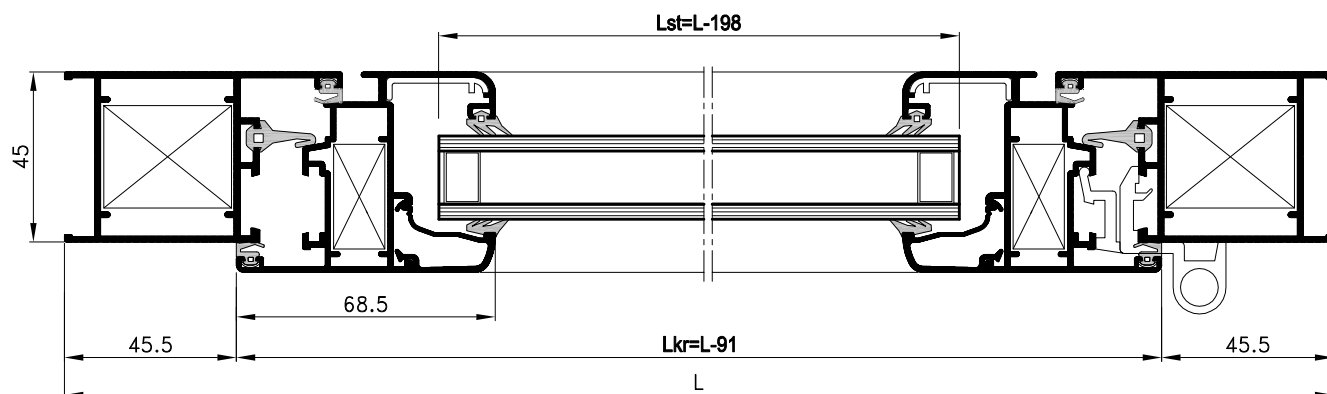
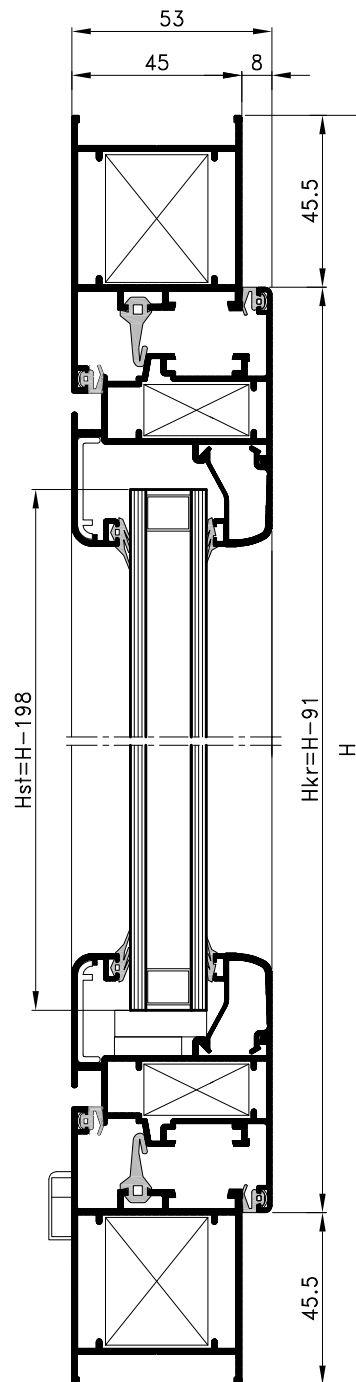


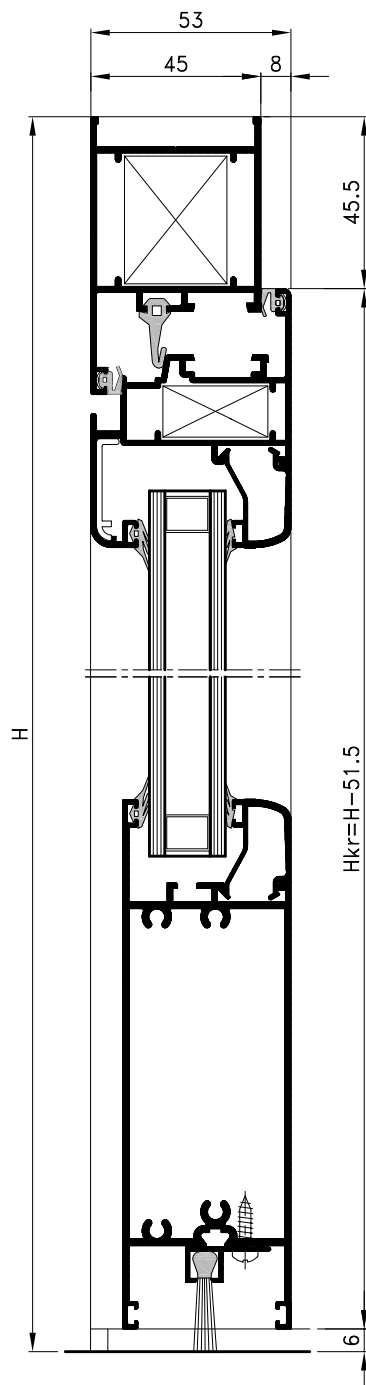
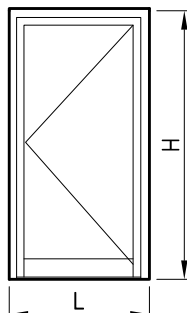
PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	2	L	45-45
M45-700	okomica okvira	2	H	45-45
M45-702	vodoravnica krila	2	L-91	45-45
M45-702	okomica krila	2	H-91	45-45
M45-740	vodoravna lajsna	2	L-174.8	45-45
M45-740	okomita lajsna	2	H-174.8	45-45
NC-1459	klizač			90-90

OKOVI		kom	
710.072	osnovni kutnik	4	
730.008	osnovni kutnik	4	
730.001	pomoćni kutnik	6	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	4	
111.001.xx	šarka	2	
104.002.xx	ručka prozora	1	
140.035	veza ručke i klizača	par	
143.001	zapinjač-nastavak klizača	2	
143.003	jednostrani prihvatač zapinjača	2	
373.003	maska za drenažni otvor	2	

BRTVE		kom	mjera
331.001	srednja brtva		2L+2H
321.001	brtva na spoju profila		3L+2H
311.002	brtva prema staklu		2L+2H
321.002	brtva prema staklu		2L+2H
366.001	kutni umetak	4	

STAKLO		kom	mjera
20 mm		1	L-198 x H-198





PROFILI		kom	mjera	pilanje
M45-700	vodoravnica okvira	1	L	45-45
M45-700	okomica okvira	2	H	45-90
M45-702	vodoravnica krila	1	L-91	45-45
M45-722	vodoravnica krila-parapet	1	L-174	90-90
M45-702	okomica krila	2	H-51.5	45-90
M45-740	vodoravna lajsna	2	L-174.8	45-45
M45-740	okomita lajsna	2	H-206.8	45-45

OKOVI		kom	
710.072	osnovni kutnik	2	
730.008	osnovni kutnik	2	
730.001	pomoćni kutnik	2	
730.002	pomoćni kutnik	2	
730.003	pomoćni kutnik	2	
111.001.xx	šarka	3	
124.001	brava za vrata	1	
124.003	šild	1	
124.014	cilindar za bravu	1	
104.001.xx	ručka	1	

BRTVE		kom	mjera
331.001	srednja brtva		L+2H
321.001	brtva na spoju profila		L+2H
311.002	brtva prema staklu		2L+2H
321.002	brtva prema staklu		2L+2H
366.001	kutni umetak	2	
521.001	držač četkaste brtve	1	L
347.001	četkasta brtva	1	L

STAKLO		kom	mjera
20 mm		1	L-198 x H-230

