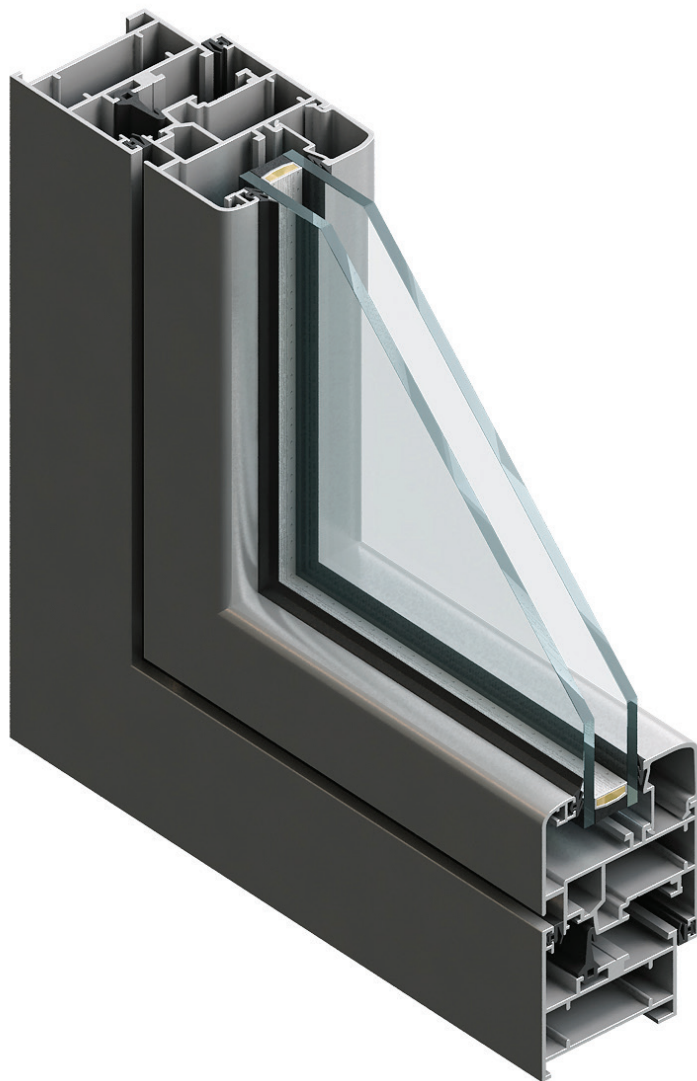


FEAL



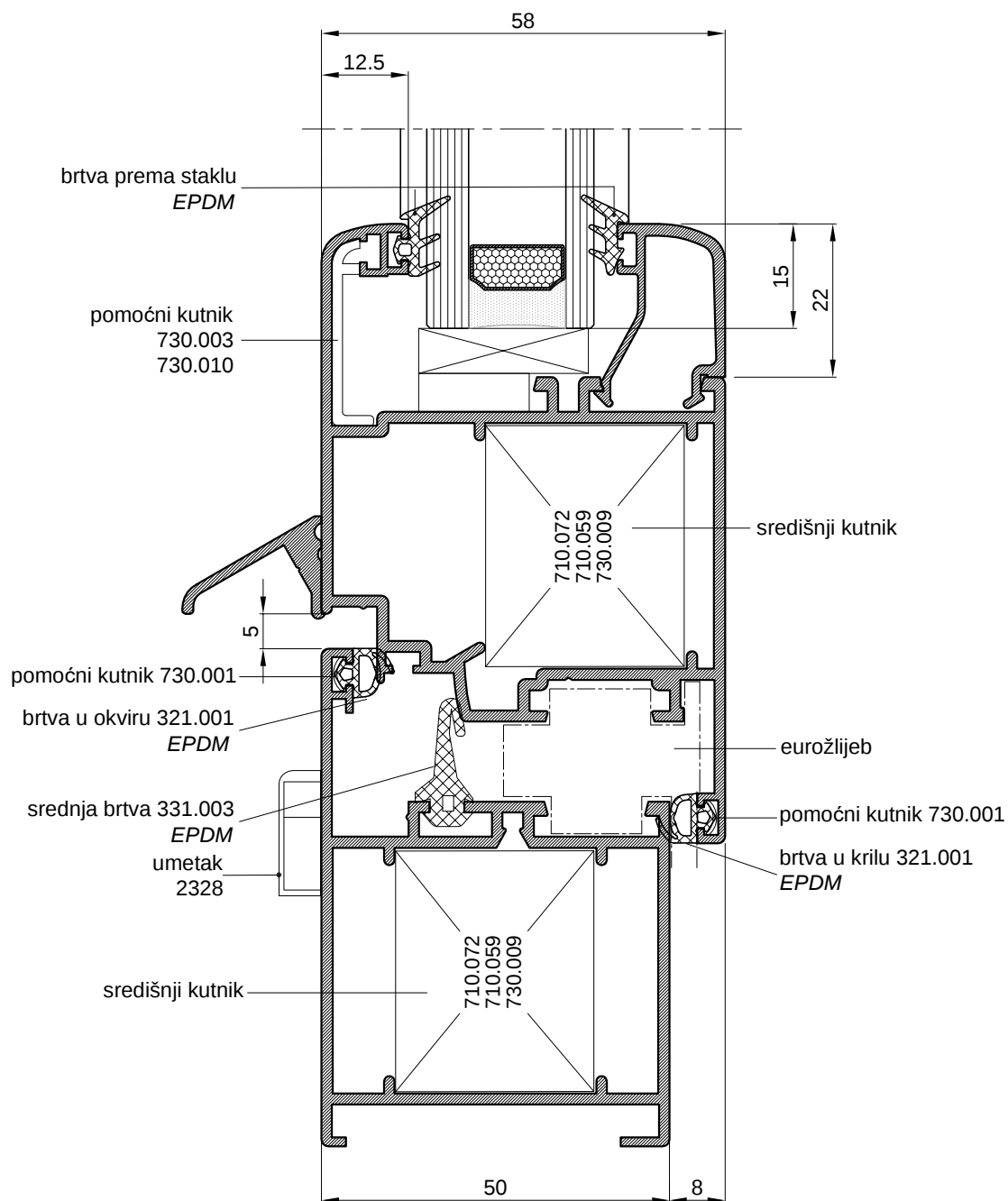
Z 50

PROZORI I VRATA
WINDOWS AND DOORS

SADRŽAJ

01	ZNAČAJKE SISTEMA	600.01.000-003
02	ISPITIVANJA I CERTIFIKATI	600.02.000-007
03	PROFILI	600.03.000-023
04	VEZNI ELEMENTI	600.04.000-003
05	PVC ELEMENTI	600.05.000-003
06	MEHANIZMI	600.06.000-015
07	BRTVILA	600.07.000-003
08	DODACI	600.08.000-005
09	PRIKAZ STAKLJENJA	600.09.000-003
10	PRESJECI	600.10.000-019
11	OBRADA I MONTAŽA	600.11.000-013
12	REZNE LISTE	600.12.000-005

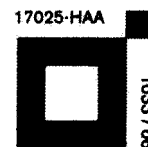
Značajke sistema



Ispitivanja i certifikati



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IZVJEŠTAJ O ISPITIVANJU BR. 2920-212/07

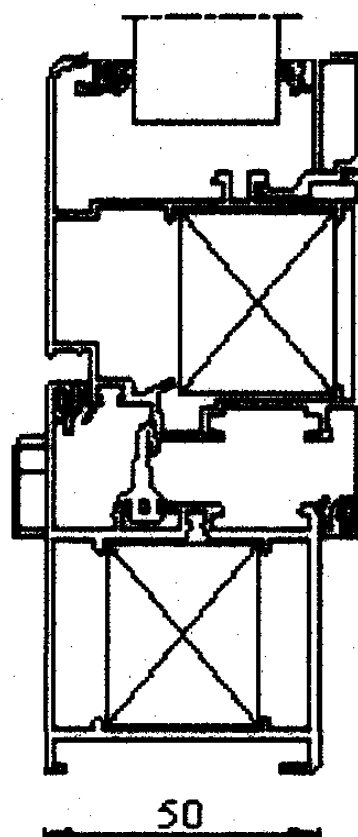
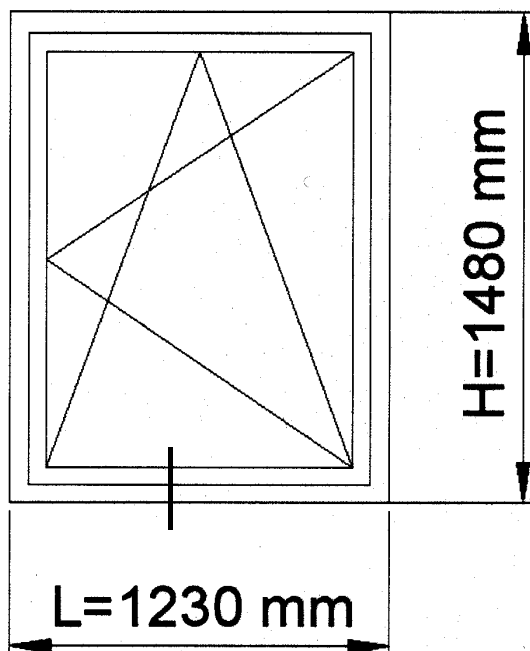
Opis ispitnog uzorka:

Ispitivanja zrakopropusnosti, vodonepropusnosti, otpornosti na opterećenje vjetrom i zvučne izolacije provedena su na jednokrillnom otklopno-zaokretnom prozoru izrađenom iz aluminijskih profila bez prekinitog toplinskog mosta serije **FEAL Z50**. Prozor je ostakljen IZO staklom debljine 28 mm (6 mm float staklo + 16 mm zrak + 6 mm float taklo).

Uzorak je prikazan skicom s presjecima i tehničkim opisom dostavljenim od strane naručitelja kako slijedi u nastavku:

Izmjere prozora:

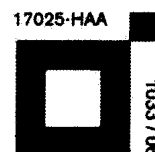
- širina: 1230 mm
- visina: 1480 mm



PROFILI		kom.	BRTVE		kom.
Z50-643	vodoravnica okvira	2	Z 101	srednja brtva	
Z50-643	okomica okvira	2	Z 106	brtva na spoju profila	
Z50-640	vodoravnica okvira	2	921 ili 918	brtva prema staklu	
Z50-640	okomica okvira	2	Z 111	brtva prema staklu	
F-0784	vodoravna lajsna	2	Z 901	kutni umetak	4
F-0784	okomita lajsna	2			
NC-1459	klizač				
OKOVI		kom.	STAKLO		kom.
4004	kutnik krila i rama	8	IZO 28 mm (6+16+6)		1
G112	pomoćni kutnik	4			
G112/A	pomoćni kutnik	4			
0366	pomoćni kutnik	4			
komplet	DRY KIP mehanizam	1			
2328	maska za drenažni otvor	2			



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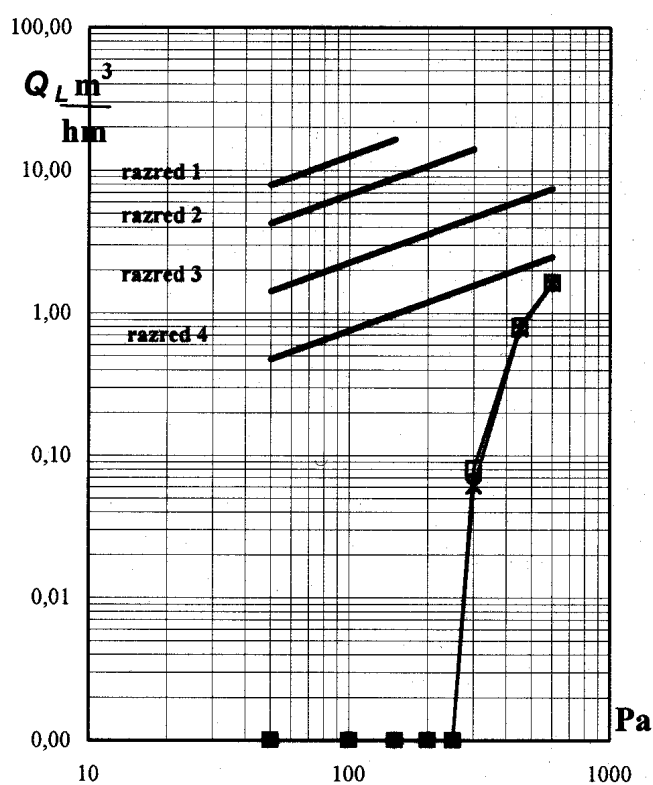


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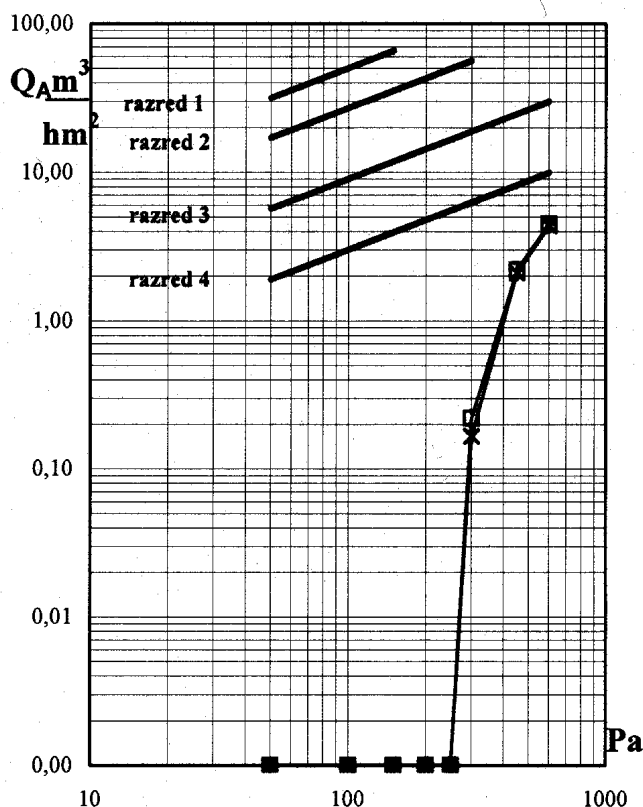
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A DIO: ZRAKOPROPUSNOST

Tablica izmjernih protoka zraka po jedinici duljine sljubnica uzorka i po jedinici ploštine uzorka, kao funkcija razlike tlakova:



- LGF 083/07 - prvo ispitivanje zrakopropusnosti
- *— LGF 083/07 - ispitivanje zrakopropusnosti nakon ispitivanja otpornosti na opterećenje vjetrom

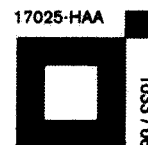


- LGF 083/07 - prvo ispitivanje zrakopropusnosti
- *— LGF 083/07 - ispitivanje zrakopropusnosti nakon ispitivanja otpornosti na opterećenje vjetrom

S obzirom na zrakopropusnost, ispitani jednokrlni otklopno-zaokretni prozor izrađen iz aluminijskih profila bez prekinitog toplinskog mosta serije FEAL Z50, proizvođača FEAL d.o.o., može se svrstati u **razred 4**, u skladu s HRN EN 12207:2001.



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B DIO: VODONEPROPUSNOST

Rezultati ispitivanja prikazani su tablicom:

TLAK Δp (Pa)	VRIJEME τ (min)	LGF 083/07	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 otklopno-zaokretni prozor izrađen iz aluminijskih profila bez prekinutog toplinskog mosta serije FEAL Z50, 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 dijelu profila prozorskog krila 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 na spoju gornjeg i bočnog profila prozorskog krila gdje se nalazi učvršćenje prozorskog krila za doprozornik (oznaka na crtežu),

C – mjesto na gornjem profilu prozorskog krila gdje se nalazi učvršćenje prozorskog krila za doprozornik (oznaka na crtežu),

A₀, B₀, C₀ – početno stanje s obzirom na pomak koje je ugođeno tako da pokazuje 0 mm pri $\Delta p = 0$ (Pa),

A_P – čeonni pomak na mjernom mjestu A pri iskazanoj razlici tlakova P1,

B_P – čeonni pomak na mjernom mjestu B pri iskazanoj razlici tlakova P1,

C_P – čeonni pomak na mjernom mjestu C pri iskazanoj razlici tlakova P1,

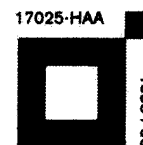
F_P = (B_P) - ((A_P) + (C_P))/2 - čeono savijanje,

L = 0,78 m - razmak između točaka A i C,

F_{rp} = F_P / L - relativno čeono savijanje.



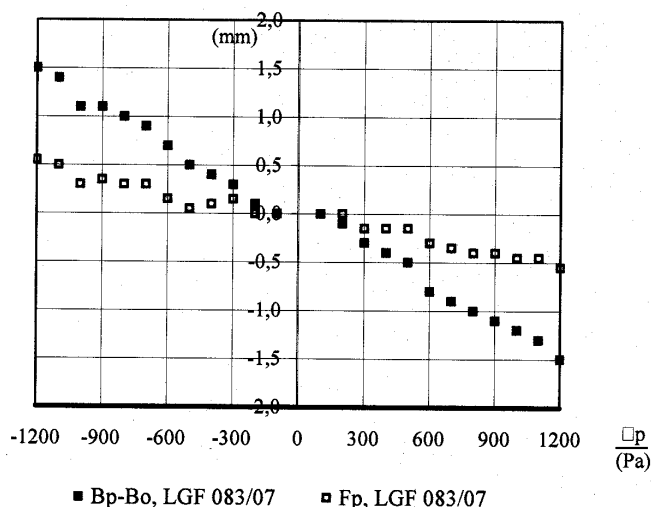
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TLAK	LGF 083/07				
Δp (Pa)	A _P (mm)	B _P (mm)	C _P (mm)	F _P (mm)	F _{rp} (x 10 ⁻⁴)
100	0,0	0,0	0,0	0,00	0,00
200	-0,1	-0,1	-0,1	0,00	0,00
300	-0,2	-0,3	-0,1	-0,15	-1,92
400	-0,3	-0,4	-0,2	-0,15	-1,92
500	-0,4	-0,5	-0,3	-0,15	-1,92
600	-0,5	-0,8	-0,5	-0,30	-3,85
700	-0,5	-0,9	-0,6	-0,35	-4,49
800	-0,6	-1,0	-0,6	-0,40	-5,13
900	-0,7	-1,1	-0,7	-0,40	-5,13
1000	-0,8	-1,2	-0,7	-0,45	-5,77
1100	-0,9	-1,3	-0,8	-0,45	-5,77
1200	0,0	0,0	0,0	-0,55	-7,05
-100	0,1	0,1	0,1	0,00	0,00
-200	0,2	0,3	0,1	0,00	0,00
-300	0,3	0,4	0,3	0,15	1,92
-400	0,5	0,5	0,4	0,10	1,28
-500	0,6	0,7	0,5	0,05	0,64
-600	0,6	0,9	0,6	0,15	1,92
-700	0,7	1,0	0,7	0,30	3,85
-800	0,7	1,1	0,8	0,30	3,85
-900	0,8	1,1	0,8	0,35	4,49
-1000	0,9	1,4	0,9	0,30	3,85
-1100	1,0	1,5	0,9	0,50	6,41



S obzirom na relativno čeonu savijanje, ispitani uzorak LGF 083/07, može se svrstati u razred C ($F_p < 1/300$), u skladu s HRN EN 12210:2001, budući da je maksimalno relativno čeonu savijanje iznosilo $1/1418$.

REZULTATI ISPITIVANJA OTPORNOSTI PROMJENJIVIM TLAKOM P2

Ispitivanje je provedeno s 50 impulsa promjenjivog tlaka P2 od ± 600 Pa, koji iznosi polovicu max. tlaka P1.

Nakon provedenog opterećenja na uzorku LGF 083/07 nije bilo vidljivih oštećenja niti promjena u funkcionalnosti prozora.

REZULTATI SIGURNOSNOG ISPITIVANJA

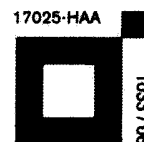
Ispitivanje sigurnosti je provedeno s jednim impulsom od -1800 Pa i s jednim impulsom od $+1800$ Pa.

Nakon provedenog opterećenja na uzorku LGF 083/07 nije bilo vidljivih napuknuća na bilo kojem dijelu uzorka (staklo, okvir i okovi), niti je došlo do otvaranja prozora.

S obzirom na ispitivanje otpornosti na opterećenje vjetrom i ponovljeno ispitivanje zrakopropusnosti nakon ispitivanja otpornosti na opterećenje vjetrom, koje pokazuje da nije došlo do povećanja vrijednosti od 20 % u odnosu na prvo ispitivanje zrakopropusnosti, ispitani jednokrillni otklopno-zaokretni prozor izrađen iz aluminijskih profila bez prekinutog toplinskog mosta serije FEAL Z50, proizvođača FEAL d.o.o., može se svrstati u razred C 3, u skladu s HRN EN 12210:2001.



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D DIO: ZVUČNA IZOLACIJA

Rezultati ispitivanja:

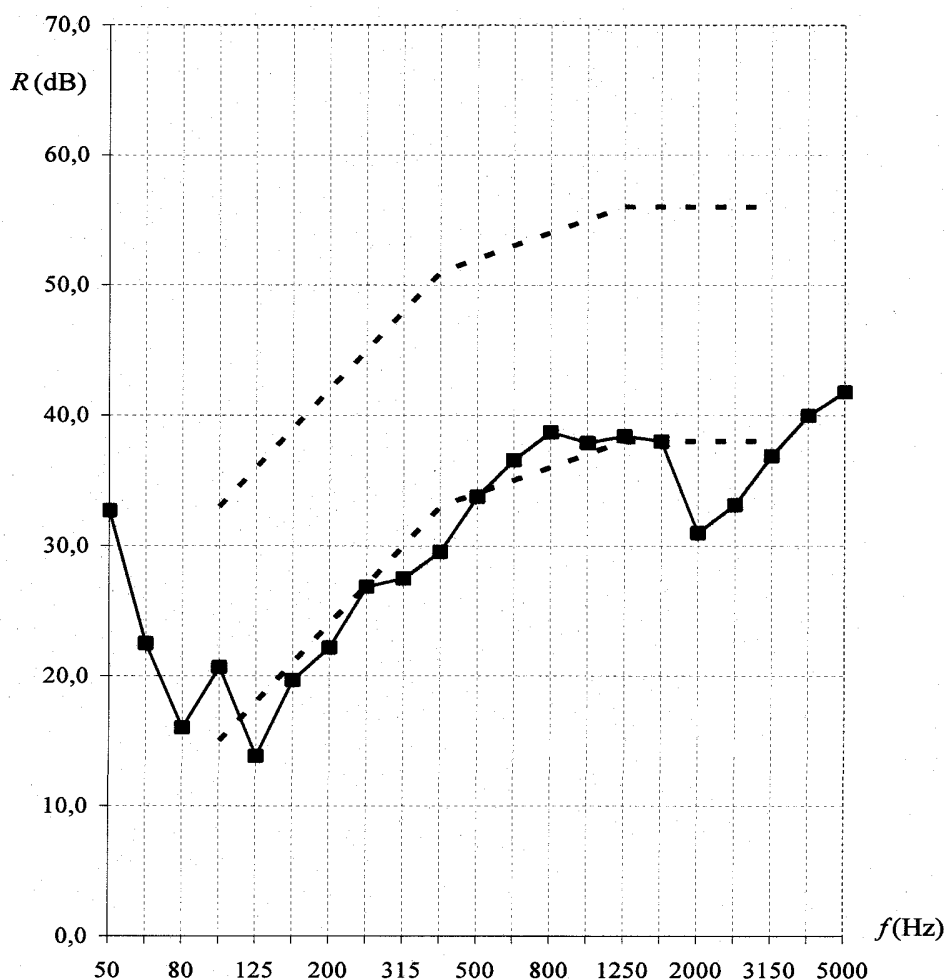
Indeks zvučne izolacije (R) ispitivanog uzorka prikazan je kao funkcija frekvencije tablicom i dijagramom.
Pri iskazivanju rezultata ispitivanja rabljene su sljedeće oznake:

f - središnja frekvencija terca (Hz),

R - indeks zvučne izolacije (dB),

R_w - vrednovani indeks zvučne izolacije (dB).

Frekvencija f (Hz)	terca R (dB)
50	32,7
63	22,5
80	16,0
100	20,7
125	13,8
160	19,6
200	22,2
250	26,9
315	27,5
400	29,5
500	33,7
630	36,6
800	38,7
1000	37,9
1250	38,4
1600	38,0
2000	31,0
2500	33,1
3150	36,9
4000	40,0
5000	41,8



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

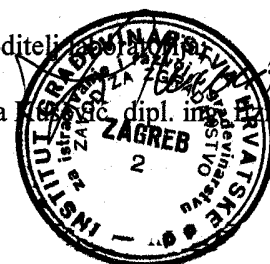
Voditelji ispitivanja:

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

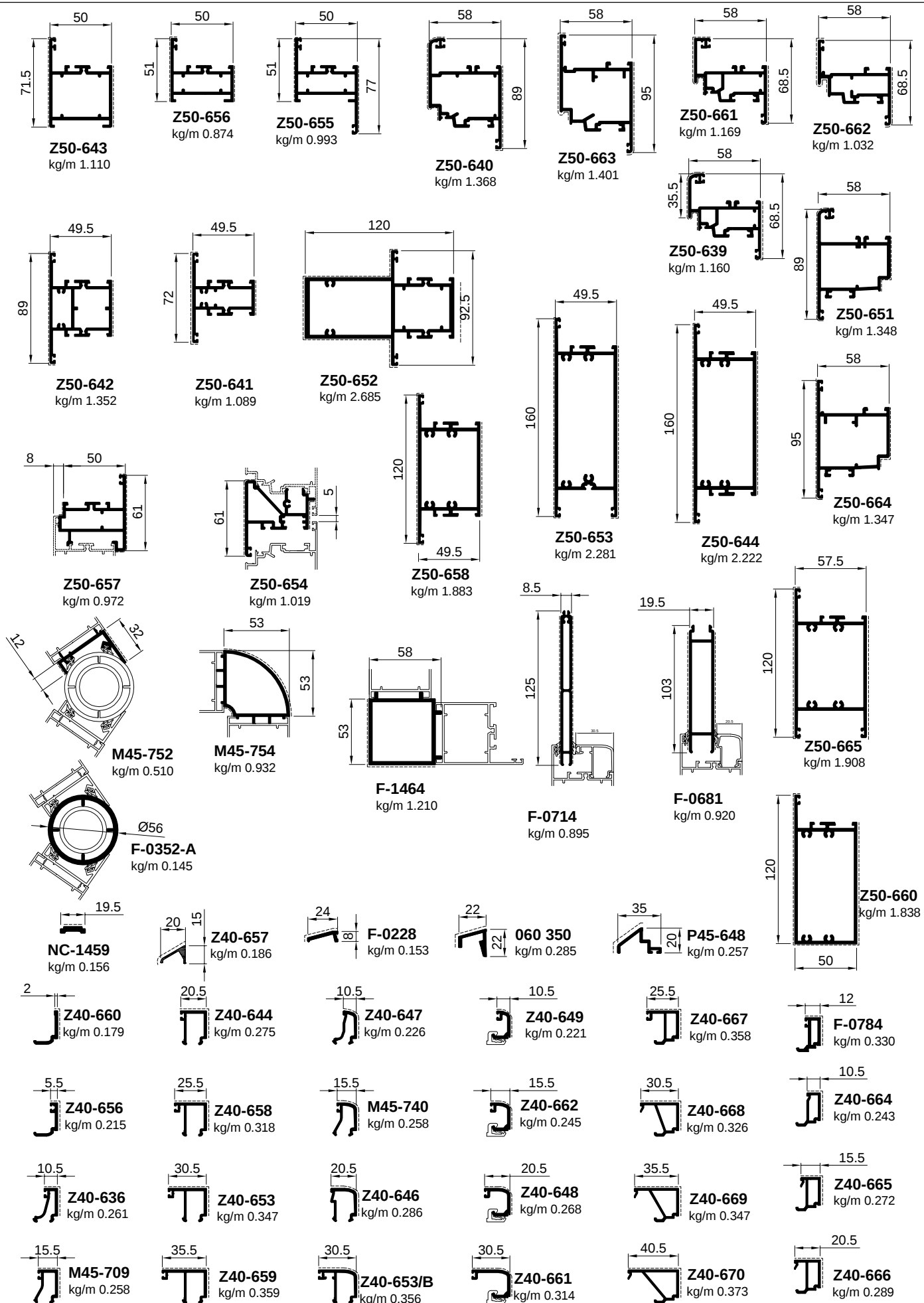
za D dio ispitivanja: Zlatko Frančić

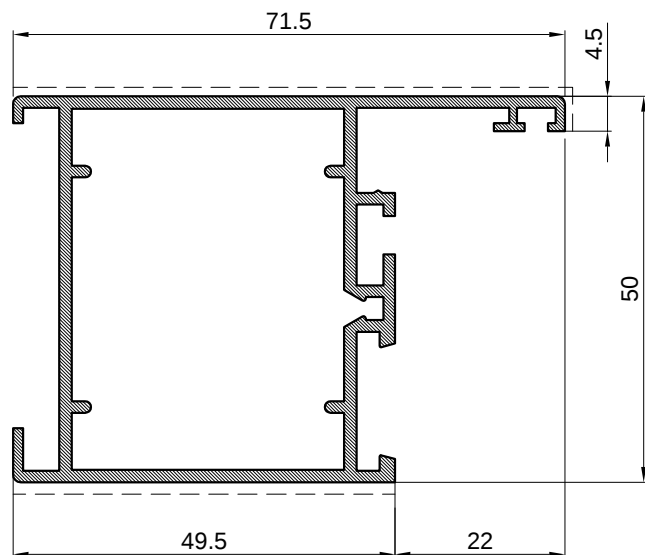
Voditelj ispitivanja:

dr. sc. Ivica Kuzmanić, dipl. ing. sig.

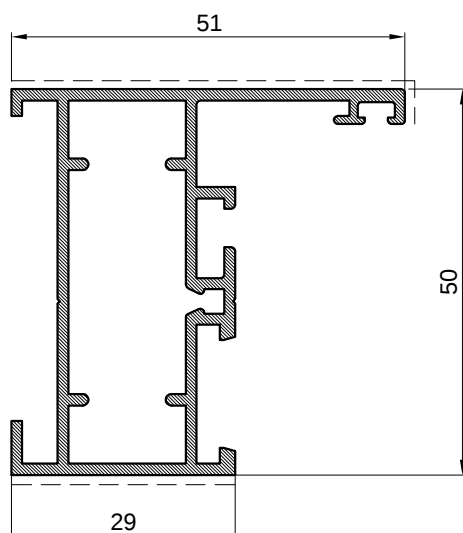


Profili

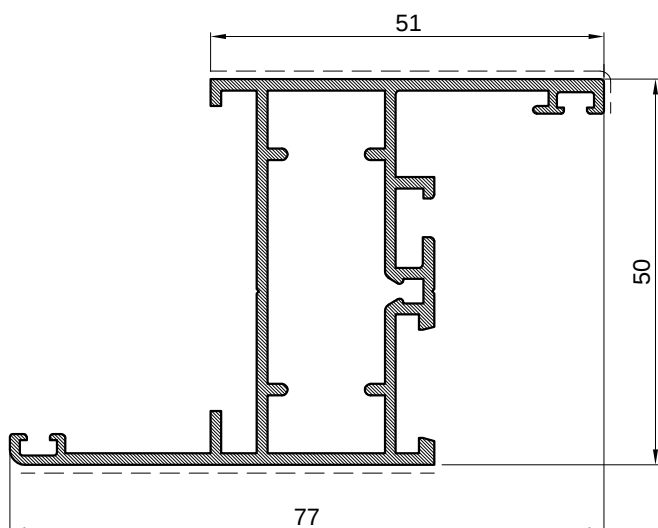




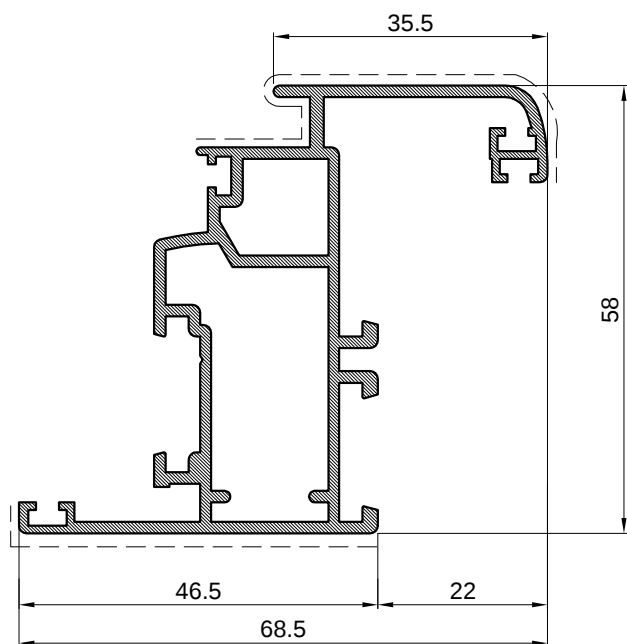
Profil rama		
Art.Br.	Z50-643	
Težina	kg/m	1.110
Opseg	mm	336.9
Moment inercije	I_x (cm ⁴)	15.2
	I_y (cm ⁴)	16.09
	W_x (cm ³)	5.58
	W_y (cm ³)	3.93
L	mm	6500



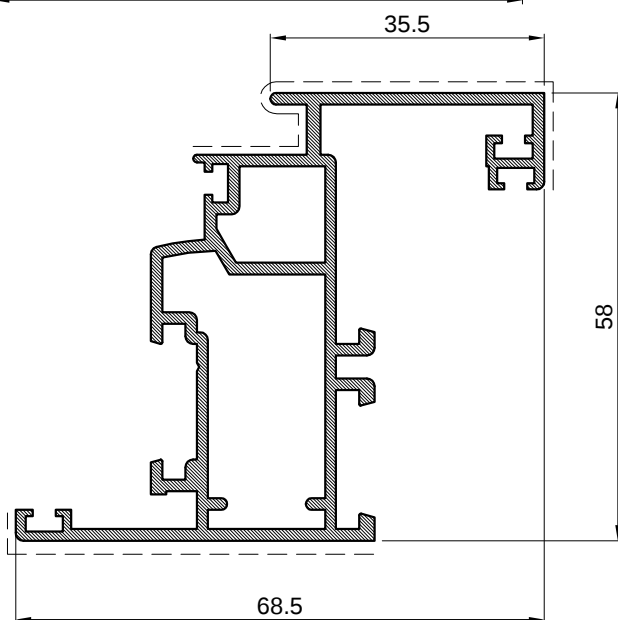
Profil rama		
Art.Br.	Z50-656	
Težina	kg/m	0.874
Opseg	mm	294.2
Moment inercije	I_x (cm ⁴)	10.92
	I_y (cm ⁴)	5.09
	W_x (cm ³)	3.92
	W_y (cm ³)	1.62
L	mm	6500



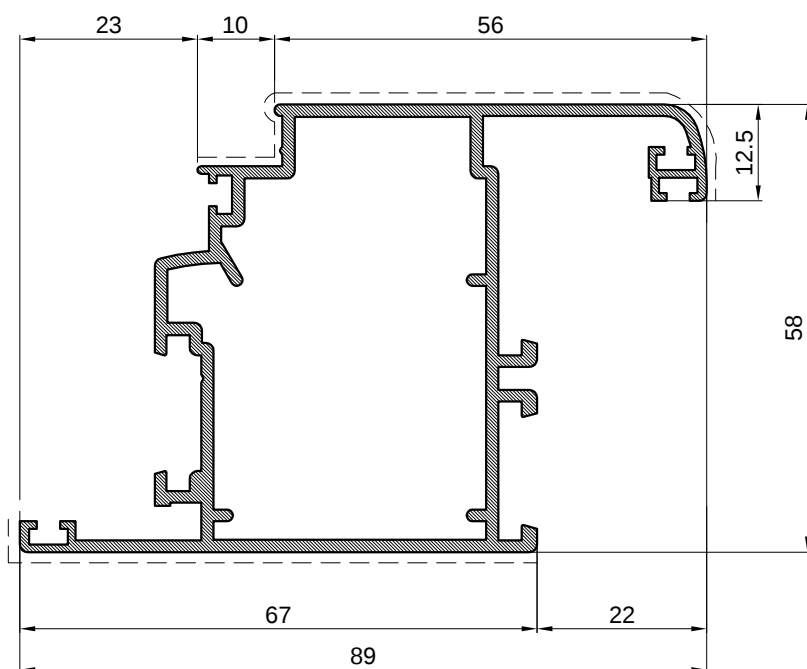
Profil rama		
Art.Br.	Z50-655	
Težina	kg/m	0.993
Opseg	mm	358.5
Moment inercije	I_x (cm ⁴)	13.71
	I_y (cm ⁴)	9.72
	W_x (cm ³)	5.41
	W_y (cm ³)	2.34
L	mm	6500



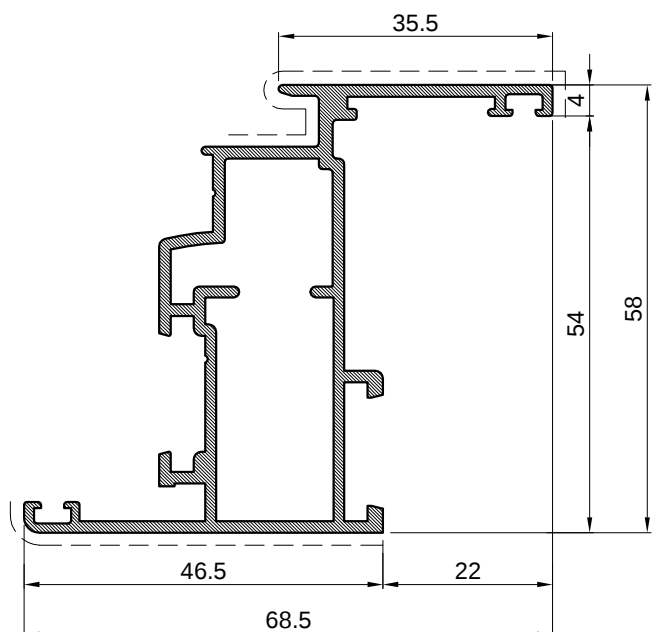
Profil krila		
Art.Br.	Z50-639	
Težina	kg/m	1.160
Opseg	mm	412.1
Moment inercije	I_x (cm ⁴)	17.43
	I_y (cm ⁴)	9.43
	W_x (cm ³)	5.92
	W_y (cm ³)	2.73
L	mm	6500



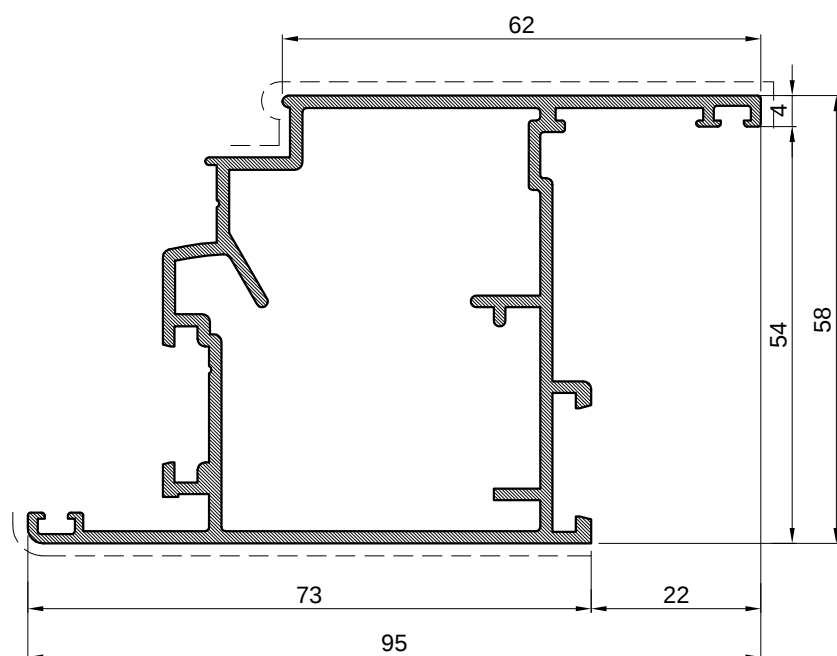
Profil krila		
Art.Br.	Z50-661	
Težina	kg/m	1.169
Opseg	mm	417
Moment inercije	I_x (cm ⁴)	17.92
	I_y (cm ⁴)	10.16
	W_x (cm ³)	6.14
	W_y (cm ³)	2.91
L	mm	6500



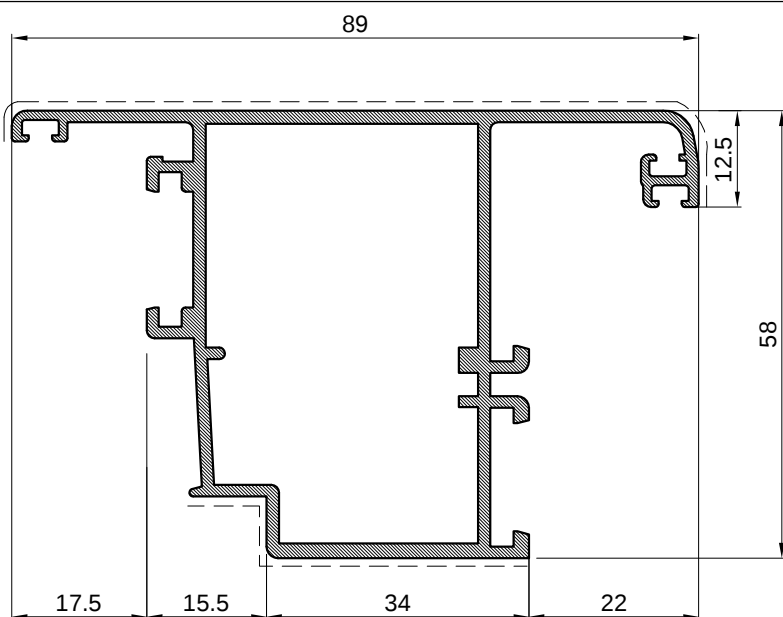
Profil krila		
Art.Br.	Z50-640	
Težina	kg/m	1.368
Opseg	mm	445.9
Moment inercije	I_x (cm ⁴)	23.5
	I_y (cm ⁴)	25.09
	W_x (cm ³)	7.97
	W_y (cm ³)	5.61
L	mm	6500



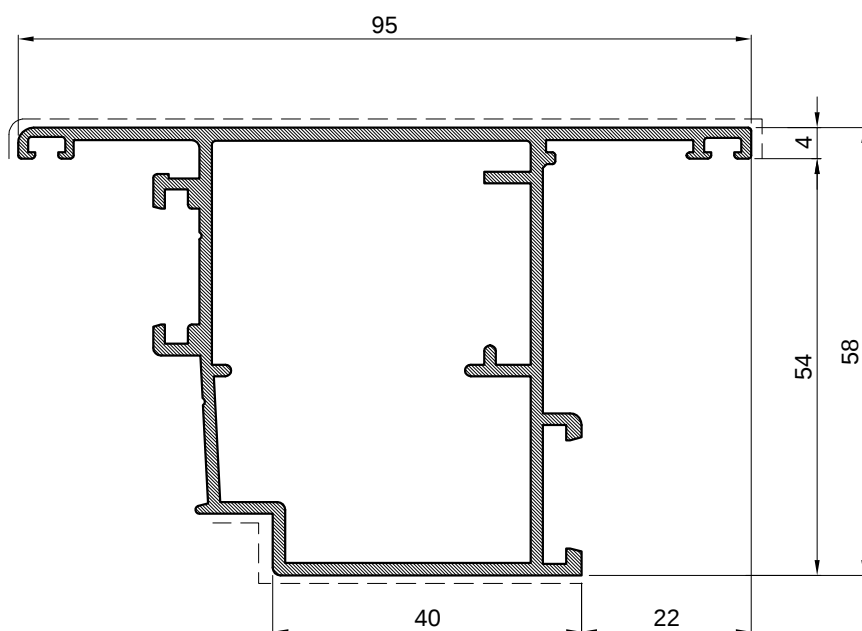
Profil krila		
Art.Br.	Z50-662	
Težina	kg/m	1.032
Opseg	mm	356
Moment inercije	I_x (cm ⁴)	16.69
	I_y (cm ⁴)	7.47
	W_x (cm ³)	5.57
	W_y (cm ³)	2.1
L	mm	6500



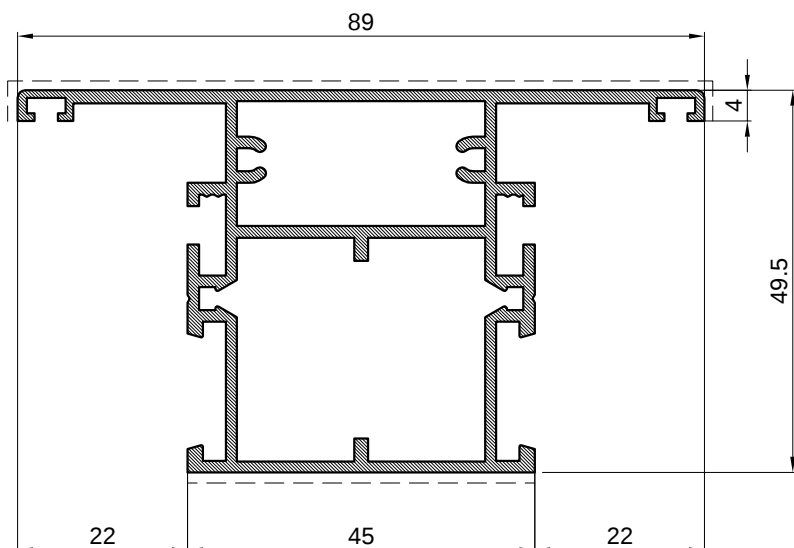
Profil krila		
Art.Br.	Z50-663	
Težina	kg/m	1.401
Opseg	mm	401
Moment inercije	I_x (cm ⁴)	24.98
	I_y (cm ⁴)	28.15
	W_x (cm ³)	8.33
	W_y (cm ³)	5.79
L	mm	6500



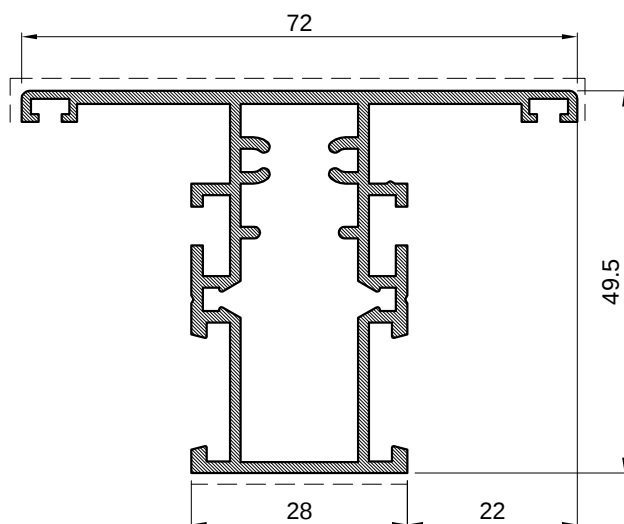
Profil krila-otv. vani		
Art.Br.	Z50-651	
Težina	kg/m	1.348
Opseg	mm	425
Moment inercije	I_x (cm ⁴)	22.17
	I_y (cm ⁴)	24.59
	W_x (cm ³)	6.42
	W_y (cm ³)	5.35
L	mm	6500



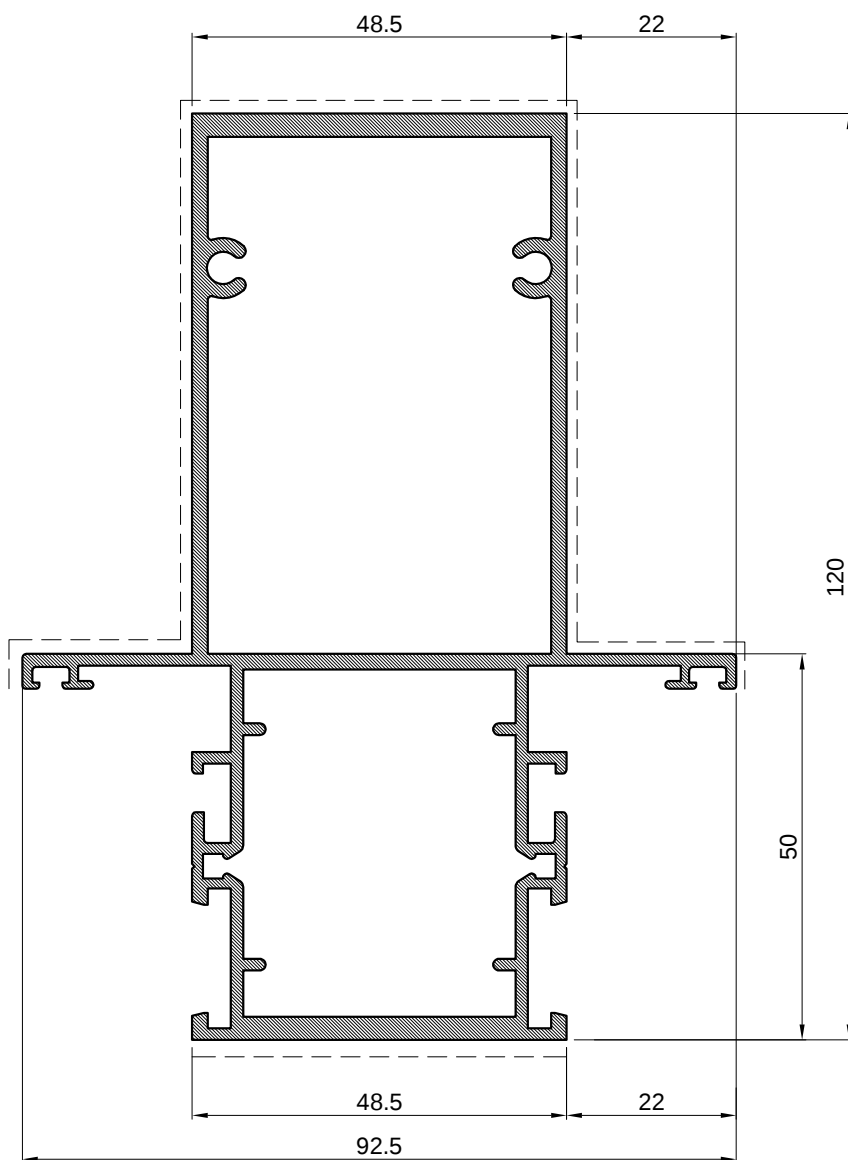
Profil krila-otv. vani		
Art.Br.	Z50-664	
Težina	kg/m	1.347
Opseg	mm	396
Moment inercije	I_x (cm ⁴)	23.08
	I_y (cm ⁴)	26.88
	W_x (cm ³)	6.58
	W_y (cm ³)	5.62
L	mm	6500



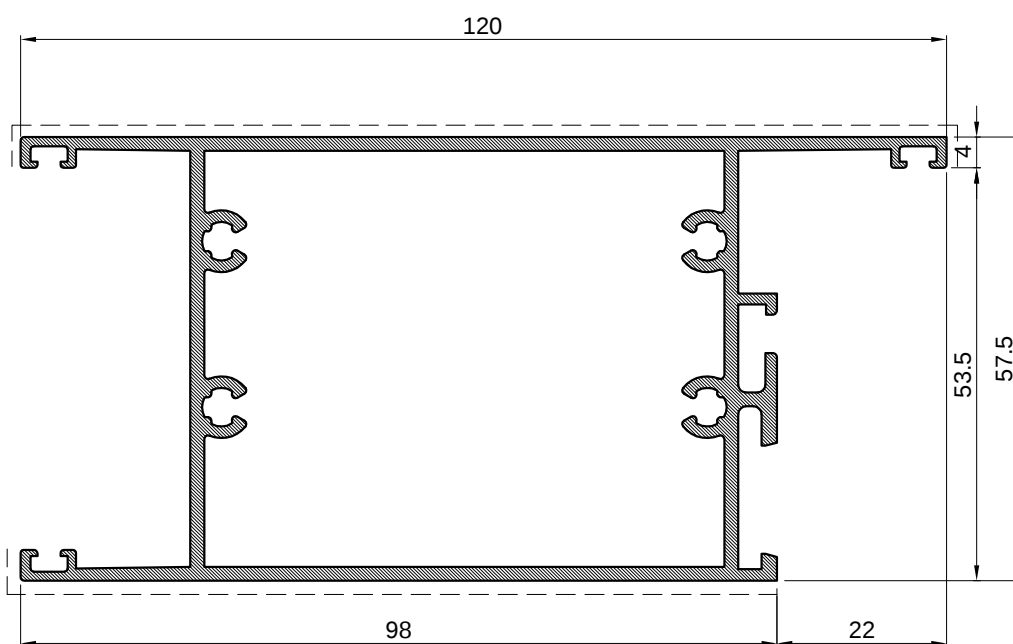
Profil prečke		
Art.Br.	Z50-642	
Težina	kg/m	1.352
Opseg	mm	402.3
Moment inercije	I_x (cm ⁴)	14.86
	I_y (cm ⁴)	20.11
	W_x (cm ³)	4.98
	W_y (cm ³)	4.52
L	mm	6500



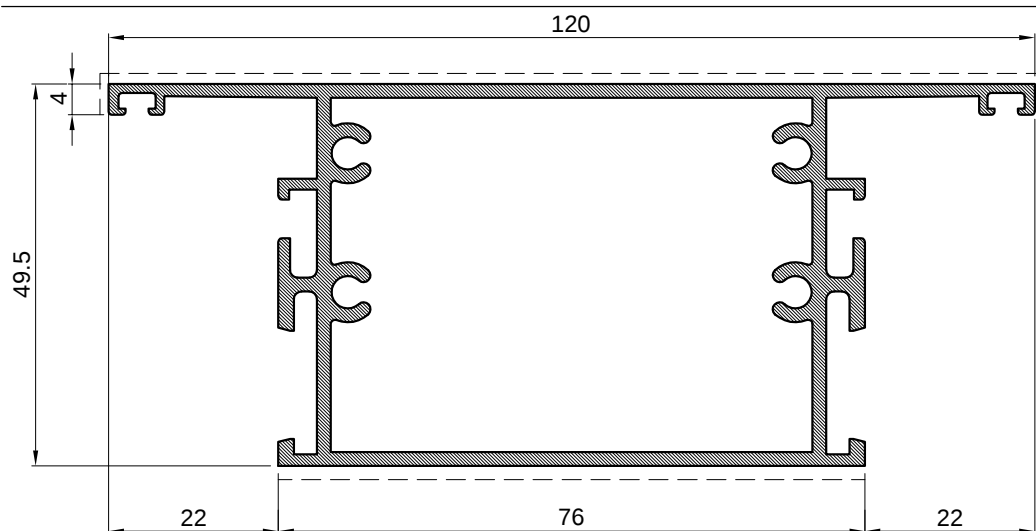
Profil prečke		
Art.Br.	Z50-641	
Težina	kg/m	1.089
Opseg	mm	367.8
Moment inercije	I_x (cm ⁴)	11.69
	I_y (cm ⁴)	8.51
	W_x (cm ³)	3.79
	W_y (cm ³)	2.36
L	mm	6500



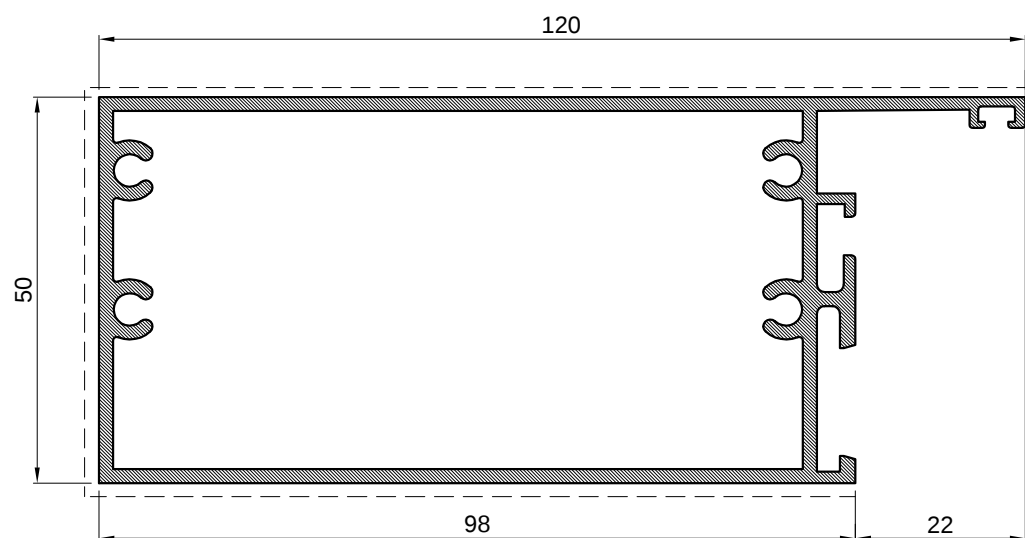
Profil ojačane prečke		
Art.Br.	Z50-652	
Težina	kg/m	2.685
Opseg	mm	555.8
Moment inercije	I_x (cm ⁴)	159.41
	I_y (cm ⁴)	44.38
	W_x (cm ³)	25.93
	W_y (cm ³)	9.6
L	mm	6500



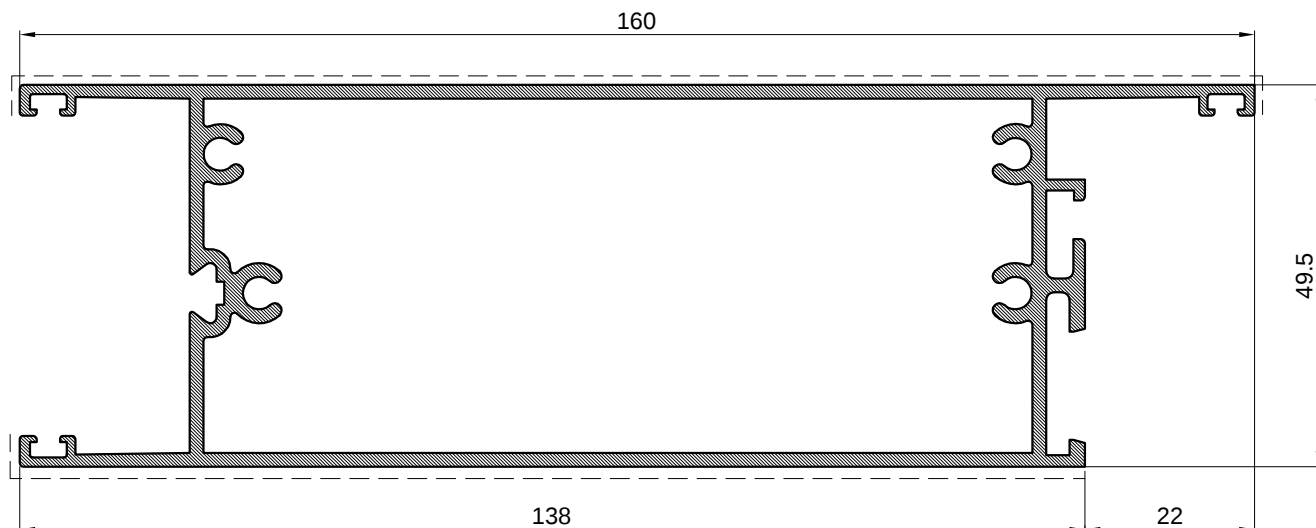
Profil parap. prečke		
Art.Br.	Z50-665	
Težina	kg/m	1.908
Opseg	mm	491
Moment inercije	I_x (cm ⁴)	36.59
	I_y (cm ⁴)	80.22
	W_x (cm ³)	11.94
	W_y (cm ³)	12.95
L	mm	6500



Profil prečke		
Art.Br.	Z50-658	
Težina	kg/m	1.883
Opseg	mm	472.8
Moment inercije	I_x (cm ⁴)	23.73
	I_y (cm ⁴)	68.03
	W_x (cm ³)	8.34
	W_y (cm ³)	11.34
L	mm	6500

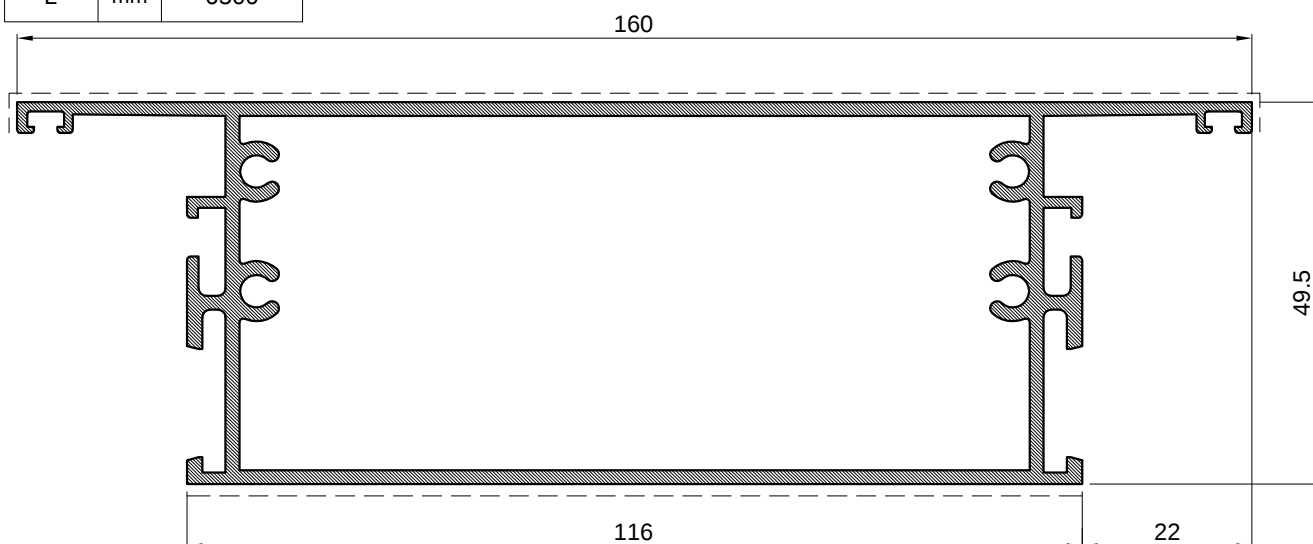


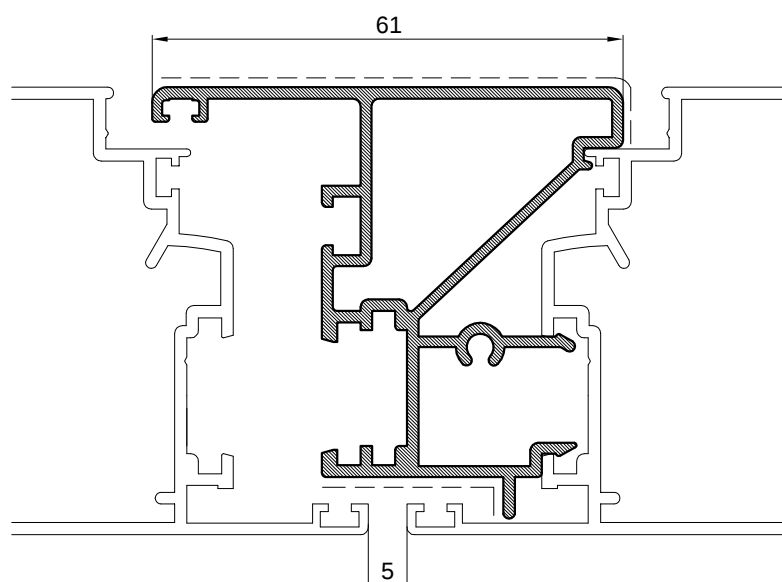
Profil prečke		
Art.Br.	Z50-660	
Težina	kg/m	1.838
Opseg	mm	408
Moment inercije	I_x (cm ⁴)	26.83
	I_y (cm ⁴)	99.81
	W_x (cm ³)	9.85
	W_y (cm ³)	15.24
L	mm	6500



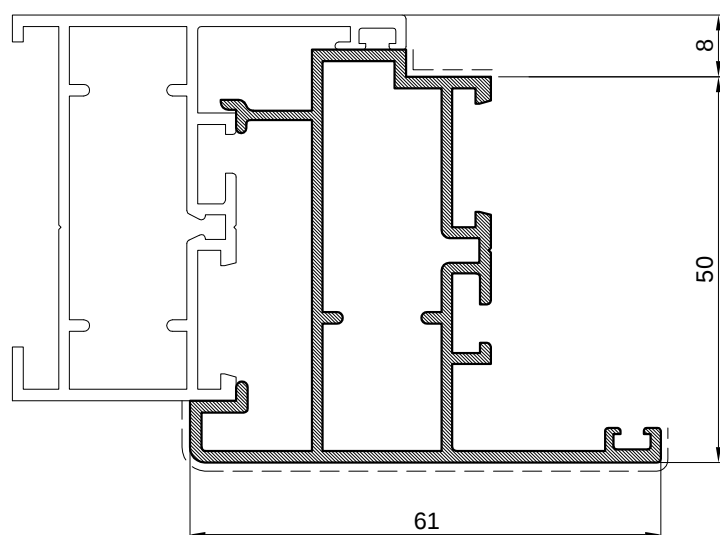
Profil parapet		
Art.Br.	Z50-644	
Težina	kg/m	2.222
Opseg	mm	553
Moment inercije	I_x (cm ⁴)	32.01
	I_y (cm ⁴)	176.09
	W_x (cm ³)	11.46
	W_y (cm ³)	22.01
L	mm	6500

Profil parapet		
Art.Br.	Z50-653	
Težina	kg/m	2.281
Opseg	mm	567
Moment inercije	I_x (cm ⁴)	34.74
	I_y (cm ⁴)	194.56
	W_x (cm ³)	13.11
	W_y (cm ³)	23.53
L	mm	6500

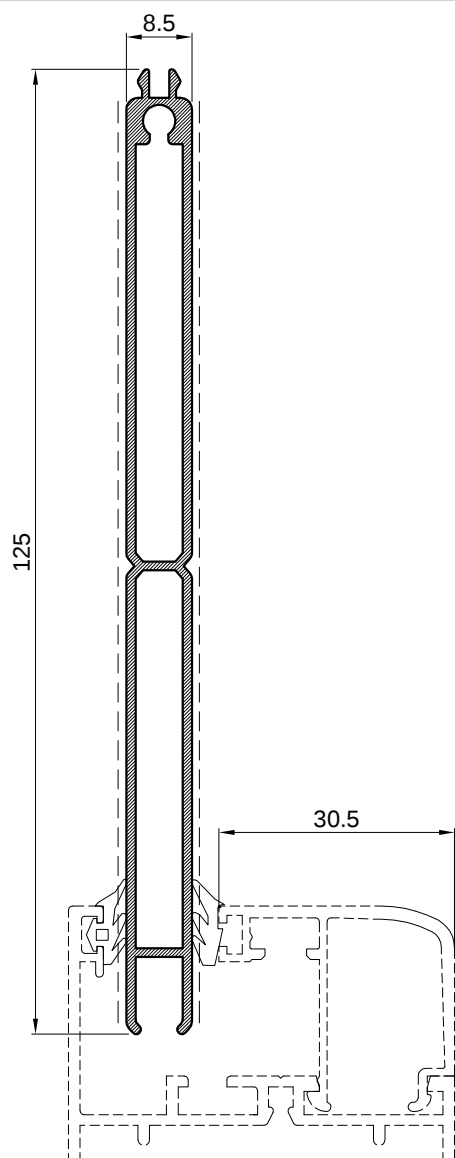




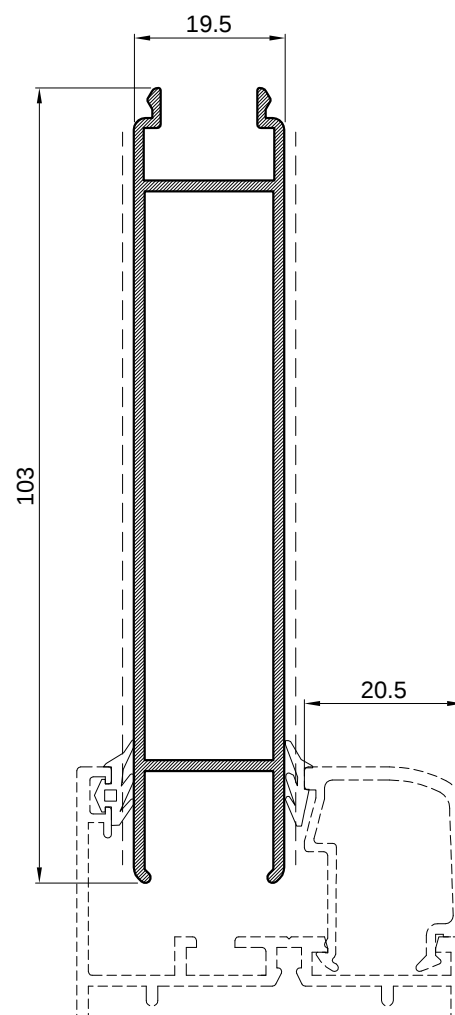
Profil kombatudute		
Art.Br.	Z50-654	
Težina	kg/m	1.019
Opseg	mm	398.1
Moment inercije	I_x (cm ⁴)	12.4
	I_y (cm ⁴)	7.17
	W_x (cm ³)	3.73
	W_y (cm ³)	2.06
L	mm	6500



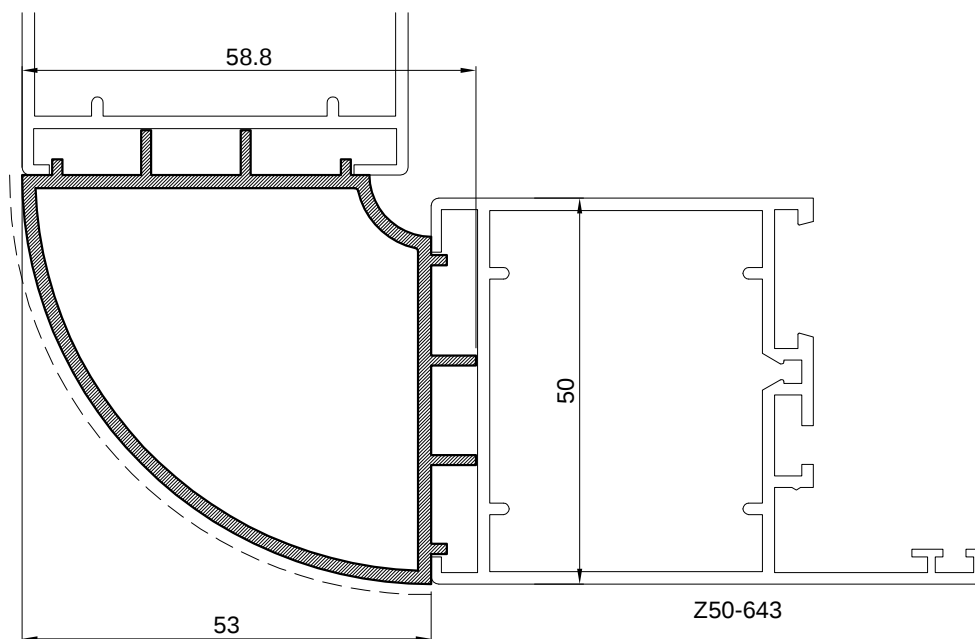
Profil kombatudute		
Art.Br.	Z50-657	
Težina	kg/m	0.972
Opseg	mm	346.1
Moment inercije	I_x (cm ⁴)	12.64
	I_y (cm ⁴)	7.29
	W_x (cm ³)	3.93
	W_y (cm ³)	2.12
L	mm	6500



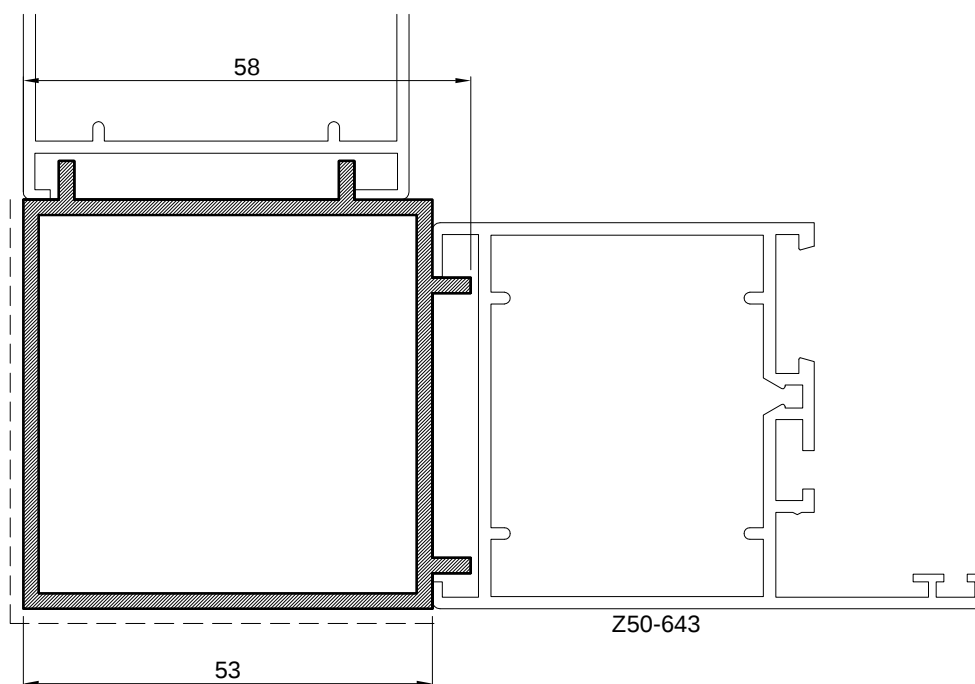
Profil ispune		
Art.Br.	F-0714	
Težina	kg/m	0.895
Opseg	mm	294.2
Moment inercije	I_x (cm ⁴)	46.51
	I_y (cm ⁴)	0.4
	W_x (cm ³)	7.22
	W_y (cm ³)	0.95
L	mm	6500



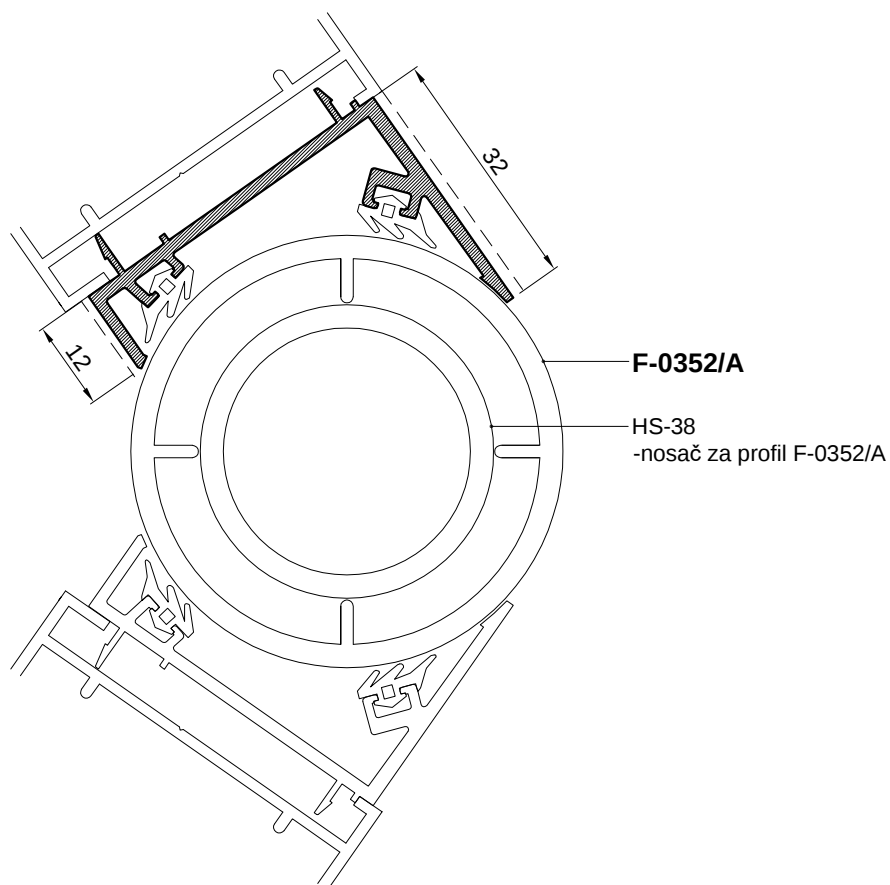
Profil ispune		
Art.Br.	F-0681	
Težina	kg/m	0.920
Opseg	mm	304.9
Moment inercije	I_x (cm ⁴)	32.68
	I_y (cm ⁴)	2.44
	W_x (cm ³)	6.29
	W_y (cm ³)	2.51
L	mm	6500



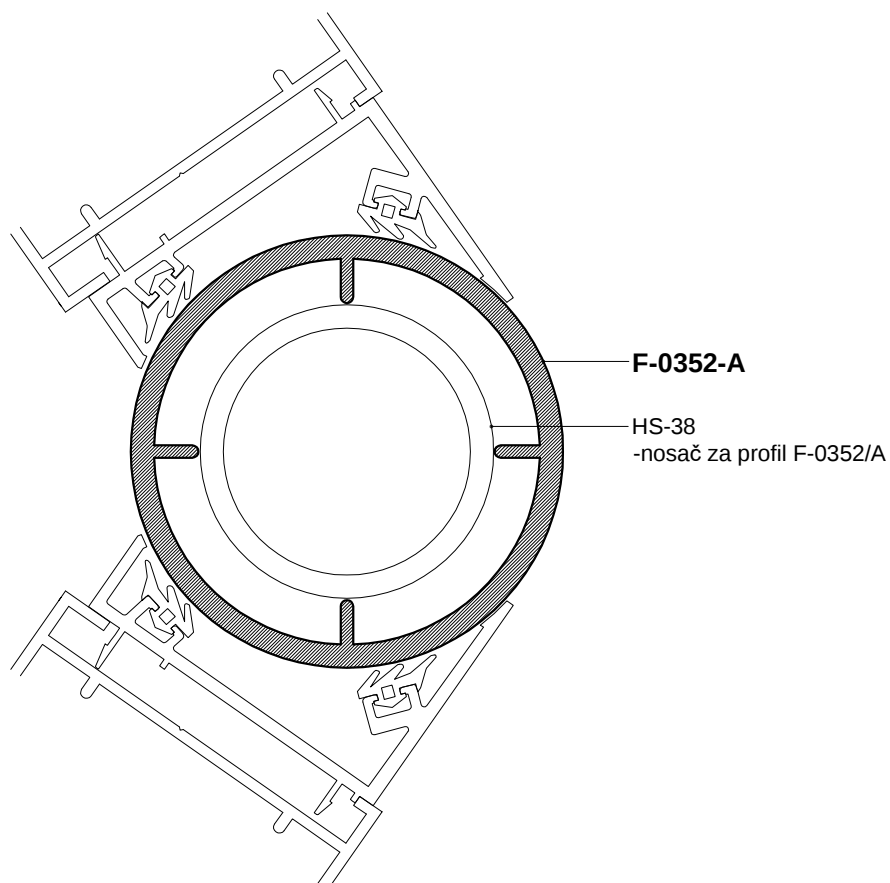
Profil		
Art.Br.	M45-745	
Težina	kg/m	0.932
Opseg	mm	248
Moment inercije	I_x (cm ⁴)	12.28
	I_y (cm ⁴)	12.28
	W_x (cm ³)	3.94
	W_y (cm ³)	3.94
L	mm	6500



Profil		
Art.Br.	F-1464	
Težina	kg/m	1.120
Opseg	mm	448
Moment inercije	I_x (cm ⁴)	20.01
	I_y (cm ⁴)	20.01
	W_x (cm ³)	6.6
	W_y (cm ³)	6.6
L	mm	6500

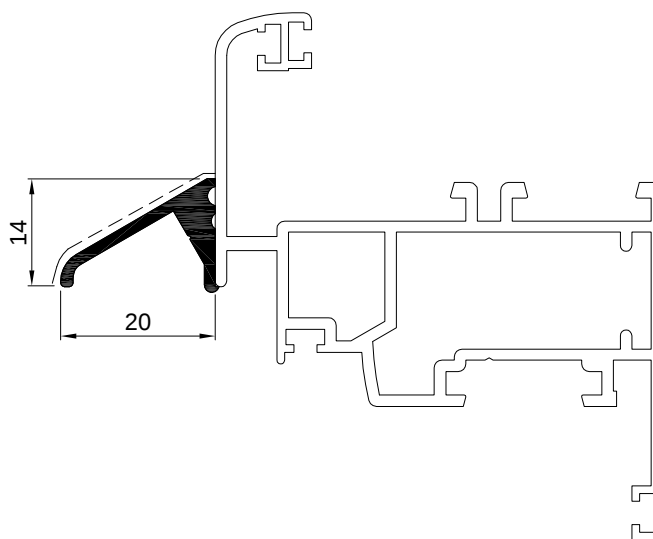


Profil		
Art.Br.	M45-752	
Težina	kg/m	0.510
Opseg	mm	238.9
Moment inercije	I_x (cm ⁴)	1.28
	I_y (cm ⁴)	4.96
	W_x (cm ³)	0.64
	W_y (cm ³)	1.76
L	mm	6500

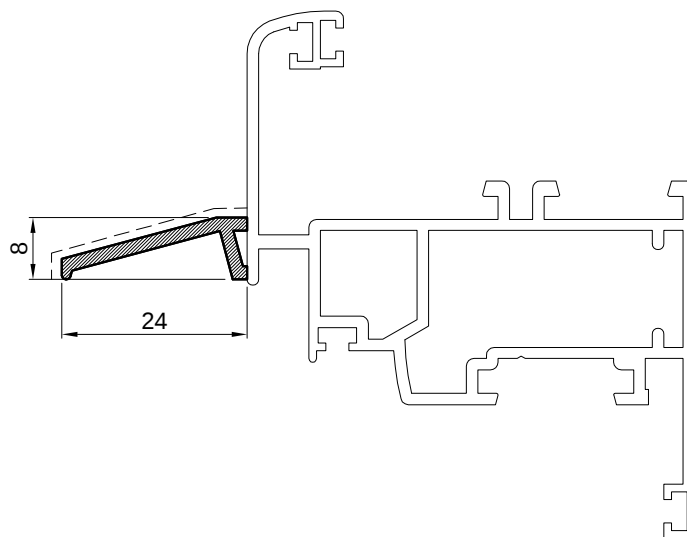


Profil		
Art.Br.	F-0352-A	
Težina	kg/m	1.441
Opseg	mm	175.93
Moment inercije	I_x (cm ⁴)	18.45
	I_y (cm ⁴)	18.45
	W_x (cm ³)	6.59
	W_y (cm ³)	6.59
L	mm	6500

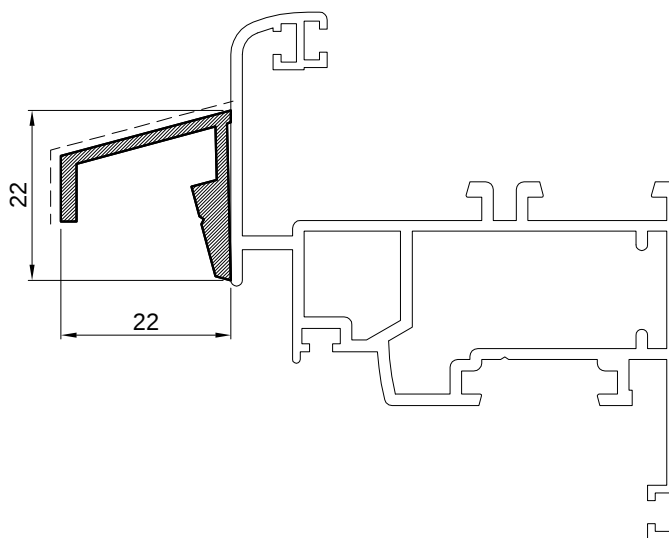
Okapnica		
Art.-Br.	Z40-657	
Težina	kg/m	0.186
Opseg	mm	73.0
L	mm	6500

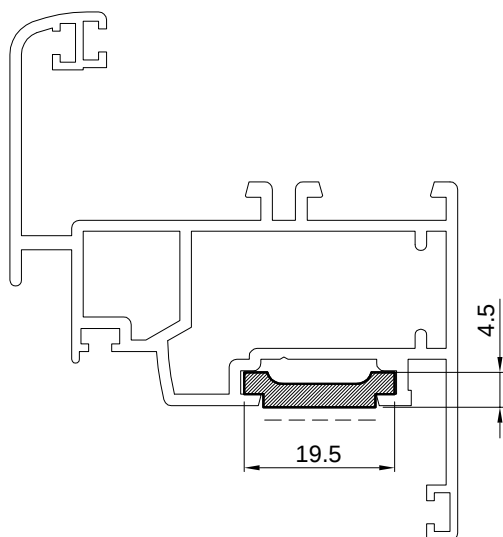


Okapnica		
Art.-Br.	F-0228	
Težina	kg/m	0.153
Opseg	mm	68.0
L	mm	6500

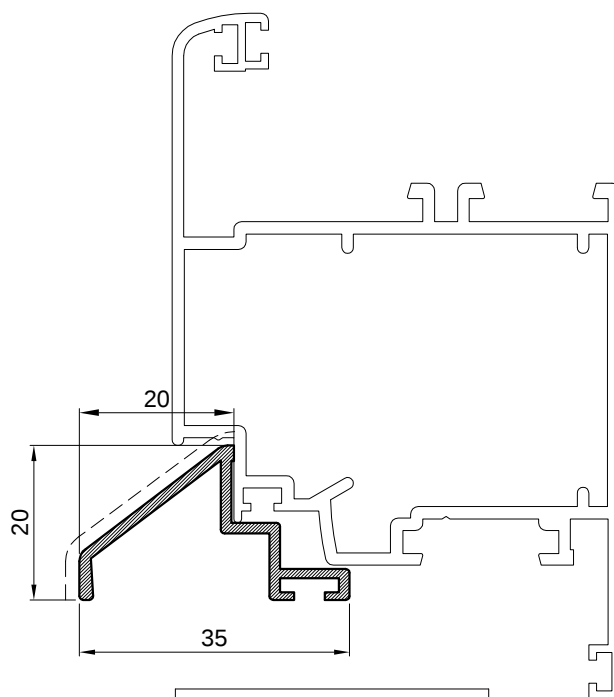


Okapnica		
Art.-Br.	060 350	
Težina	kg/m	0.285
Opseg	mm	107.0
L	mm	6500

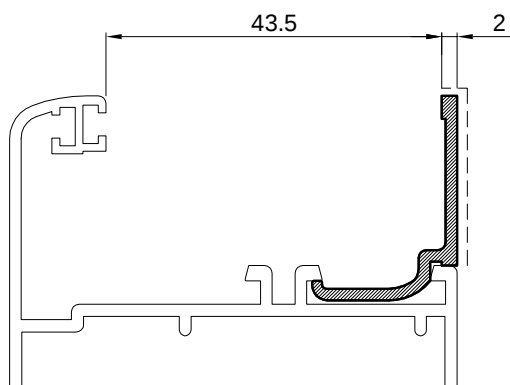




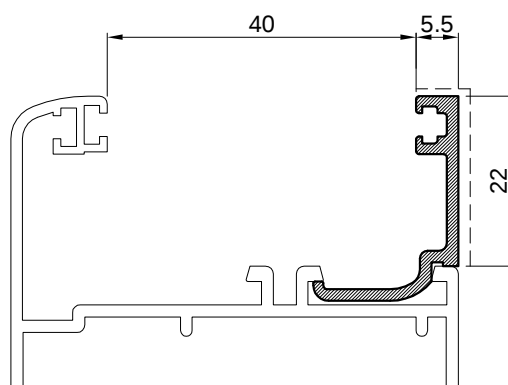
Klizač		
Art.-Br.	NC-1459	
Težina	kg/m	0.156
Opseg	mm	49.0
L	mm	6500



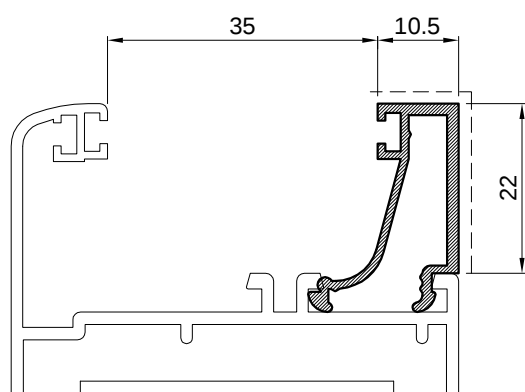
Okapnica		
Art.-Br.	P45-648	
Težina	kg/m	0.257
Opseg	mm	140.0
L	mm	6500



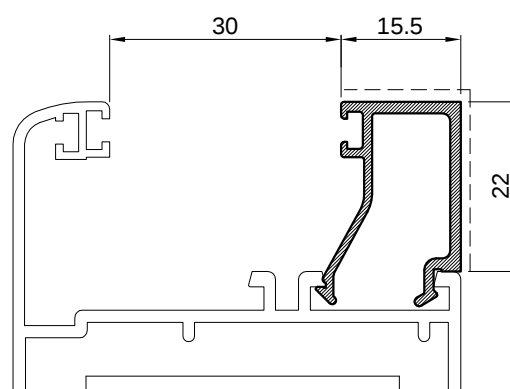
Staklo lajsna		
Art.-Br.	Z40-660	
Težina	kg/m	0.179
Opseg	mm	90.0
L	mm	6500



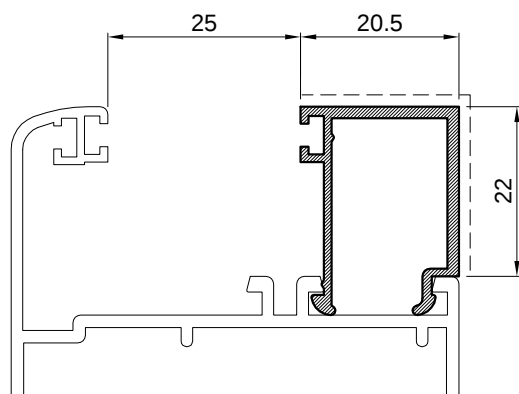
Staklo lajsna		
Art.-Br.	Z40-656	
Težina	kg/m	0.215
Opseg	mm	107.0
L	mm	6500



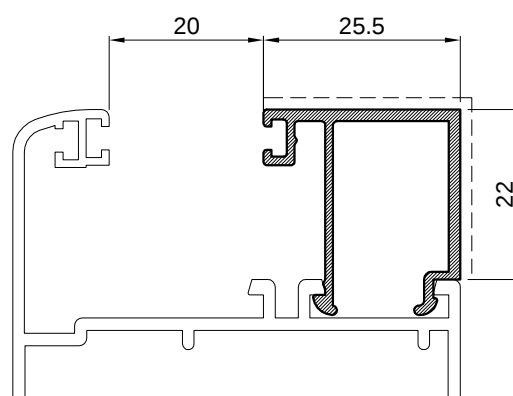
Staklo lajsna		
Art.-Br.	Z40-636	
Težina	kg/m	0.261
Opseg	mm	158.0
L	mm	6500



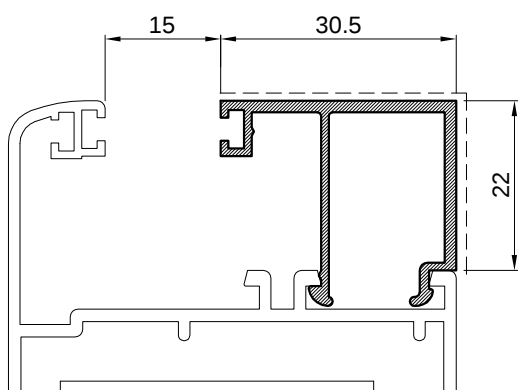
Staklo lajsna		
Art.-Br.	M45-709	
Težina	kg/m	0.258
Opseg	mm	154.0
L	mm	6500



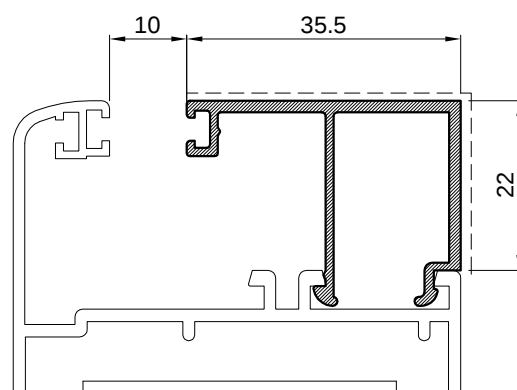
Staklo lajsna		
Art.-Br.	Z40-644	
Težina	kg/m	0.275
Opseg	mm	167.0
L	mm	6500



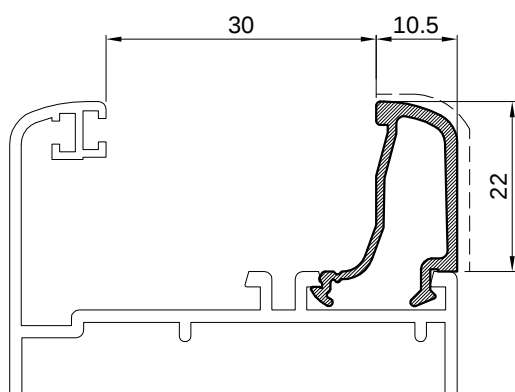
Staklo lajsna		
Art.-Br.	Z40-658	
Težina	kg/m	0.318
Opseg	mm	185.0
L	mm	6500



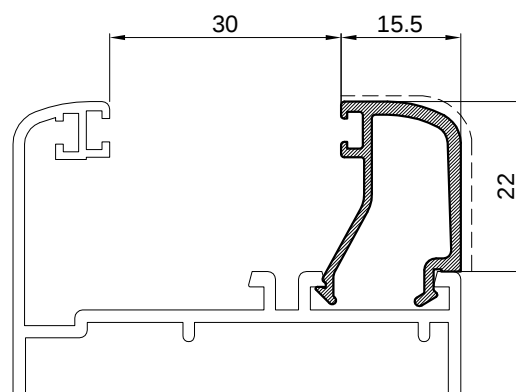
Staklo lajsna		
Art.-Br.	Z40-653	
Težina	kg/m	0.347
Opseg	mm	196.0
L	mm	6500



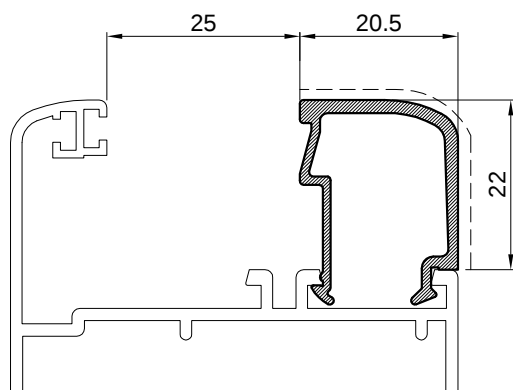
Staklo lajsna		
Art.-Br.	Z40-659	
Težina	kg/m	0.359
Opseg	mm	205.0
L	mm	6500



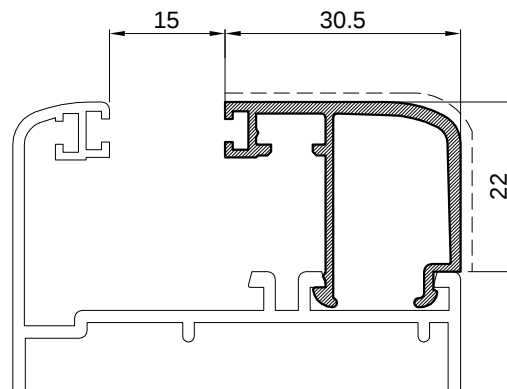
Staklo lajsna		
Art.-Br.	Z40-647	
Težina	kg/m	0.226
Opseg	mm	138.0
L	mm	6500



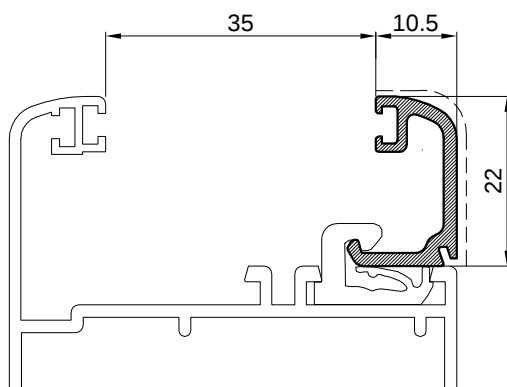
Staklo lajsna		
Art.-Br.	M45-740	
Težina	kg/m	0.258
Opseg	mm	148.0
L	mm	6500



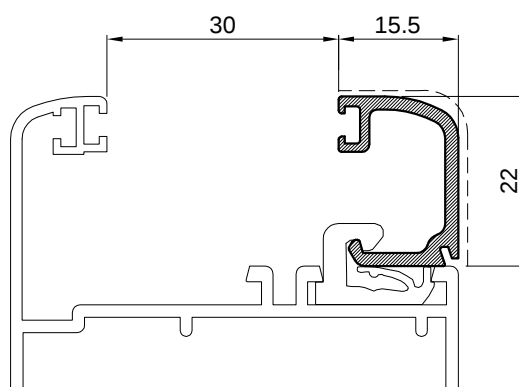
Staklo lajsna		
Art.-Br.	Z40-646	
Težina	kg/m	0.286
Opseg	mm	154.0
L	mm	6500



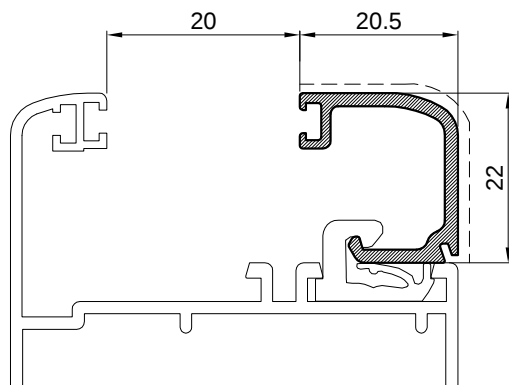
Staklo lajsna		
Art.-Br.	Z40-653/B	
Težina	kg/m	0.356
Opseg	mm	197.0
L	mm	6500



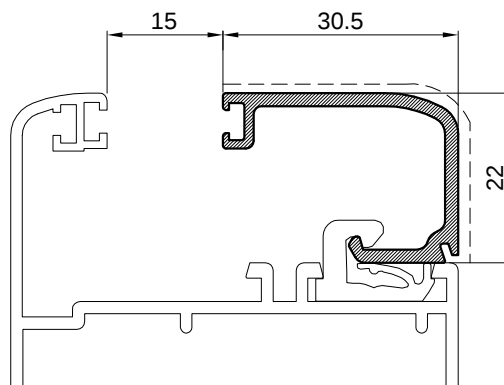
Staklo lajsna		
Art.-Br.	Z40-649	
Težina	kg/m	0.221
Opseg	mm	106.0
L	mm	6500



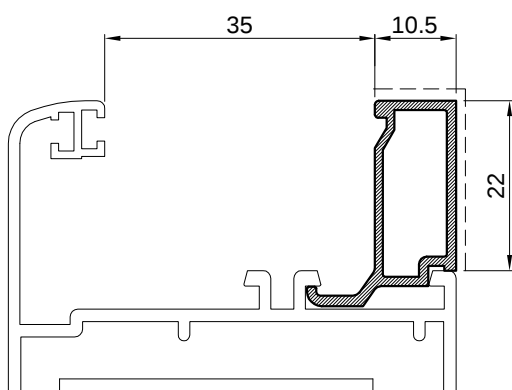
Staklo lajsna		
Art.-Br.	Z40-662	
Težina	kg/m	0.245
Opseg	mm	116.0
L	mm	6500



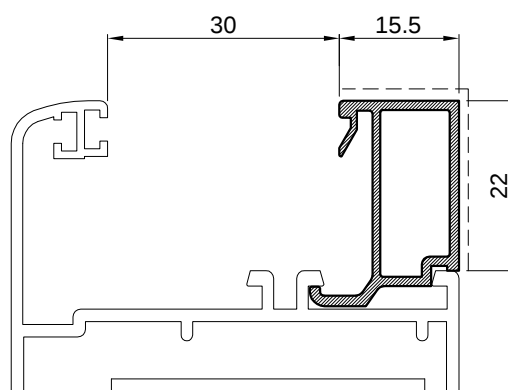
Staklo lajsna		
Art.-Br.	Z40-648	
Težina	kg/m	0.268
Opseg	mm	126.0
L	mm	6500



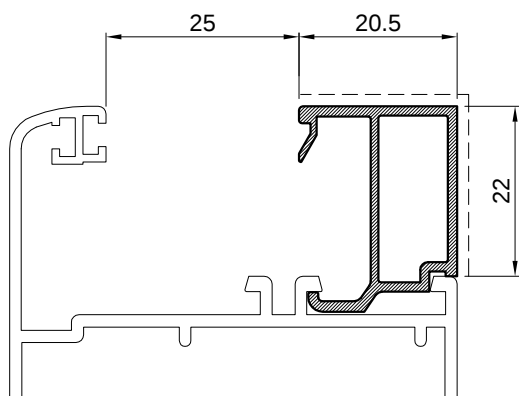
Staklo lajsna		
Art.-Br.	Z40-661	
Težina	kg/m	0.341
Opseg	mm	146.0
L	mm	6500



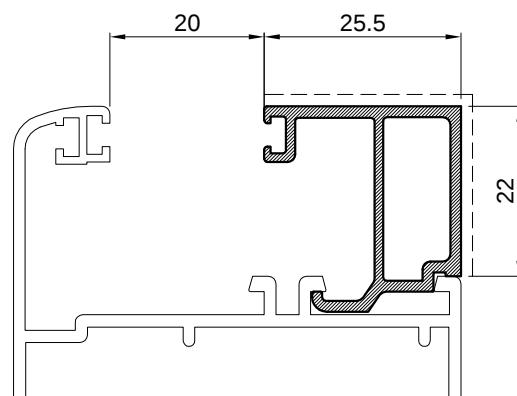
Staklo lajsna		
Art.-Br.	Z40-664	
Težina	kg/m	0.243
Opseg	mm	93.0
L	mm	6500



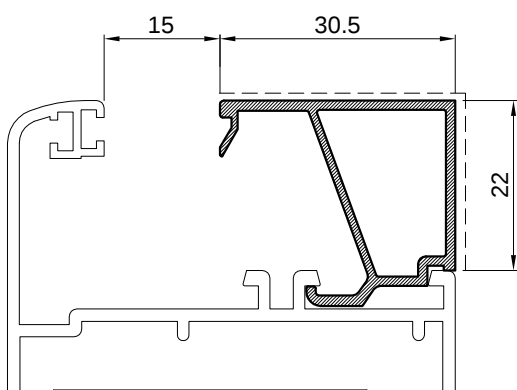
Staklo lajsna		
Art.-Br.	Z40-665	
Težina	kg/m	0.271
Opseg	mm	112.0
L	mm	6500



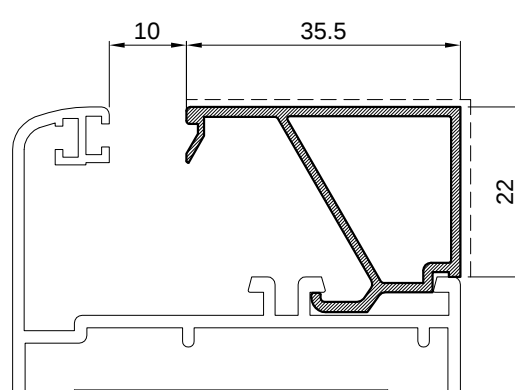
Staklo lajsna		
Art.-Br.	Z40-666	
Težina	kg/m	0.289
Opseg	mm	122.0
L	mm	6500



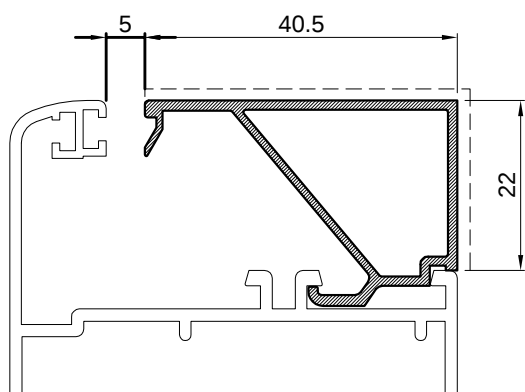
Staklo lajsna		
Art.-Br.	Z40-667	
Težina	kg/m	0.358
Opseg	mm	139.0
L	mm	6500



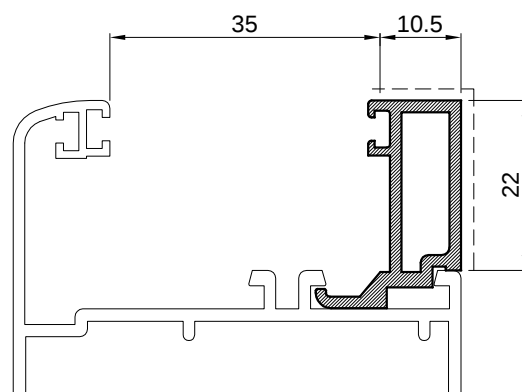
Staklo lajsna		
Art.-Br.	Z40-668	
Težina	kg/m	0.326
Opseg	mm	136.0
L	mm	6500



Staklo lajsna		
Art.-Br.	Z40-669	
Težina	kg/m	0.347
Opseg	mm	143.0
L	mm	6500

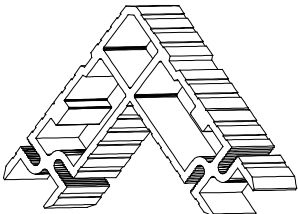
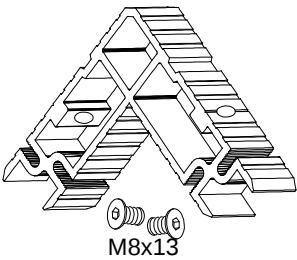
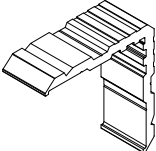
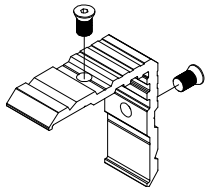
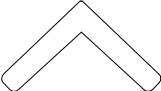


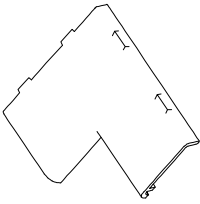
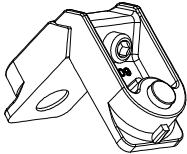
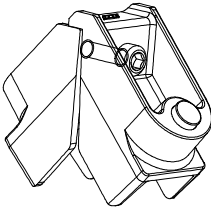
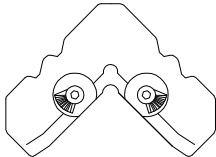
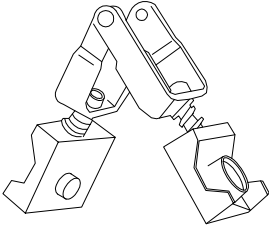
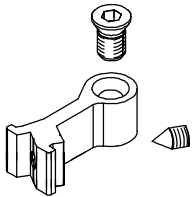
Staklo lajsna		
Art.-Br.	Z40-670	
Težina	kg/m	0.373
Opseg	mm	151.0
L	mm	6500



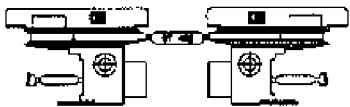
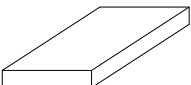
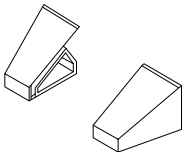
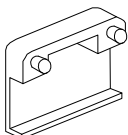
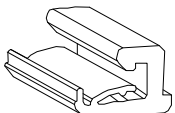
Staklo lajsna		
Art.-Br.	F-0784	
Težina	kg/m	0.330
Opseg	mm	159.0
L	mm	6500

Vezni elementi

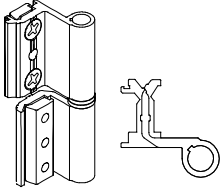
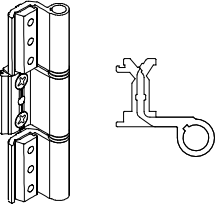
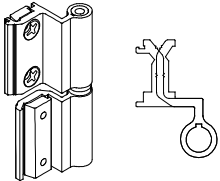
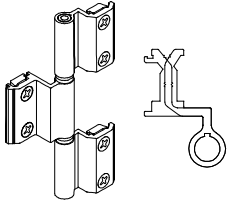
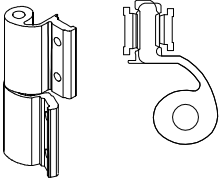
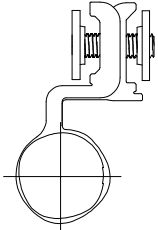
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
710.059	 l=28,5mm	- Kutna spojnica za komoru 29x35.5	Al.	
710.072	 l=28,5mm M8x13	- Kutna spojnica za komoru 29x35.5	Al.	
710.450	 l=28,5mm	- Kutna spojnica za komoru 29x15.2 - Za profil: Z50-656 Z50-655 Z50-639 Z50-661 Z50-662	Al.	
710.458	 l=28,5mm M8x13	- Kutna spojnica za komoru 29x15.2 - Za profil: Z50-656 Z50-655 Z50-639 Z50-661 Z50-662	Al.	
730.001		- Kutna spojnica za komoru 2x4.8	Inox	
730.002		- Kutna spojnica za komoru 2x4.8	Inox	

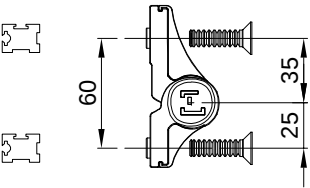
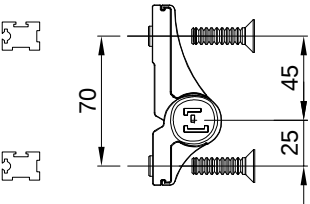
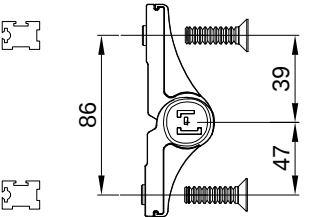
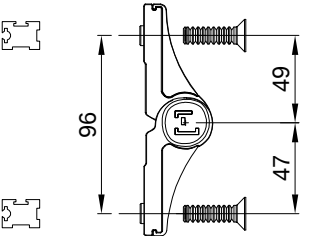
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
730.003		- Kutna spojnica za komoru 6.5x27	PVC	
730.008		- Kutna spojnica za komoru 29x15.2 - Za profil: Z50-656 Z50-655 Z50-639 Z50-661	Zamak #3	
730.009		- Kutna spojnica za komoru 29x35.5	Zamak #3	
730.010		- Kutna spojnica za komoru 6.5x27	Inox	
731.001		- Kutna spojnica za promjenjiv kut za komoru 29x15.2	Zamak #3	
710.066	 M8x13 M6x10	- Veznik (L=14.7 mm)	Al.	

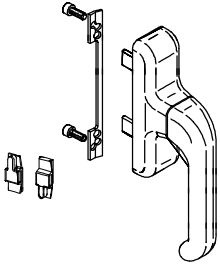
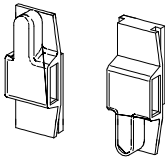
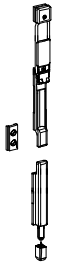
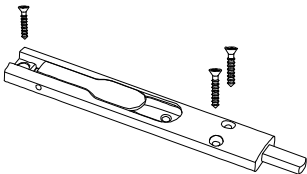
PVC elementi

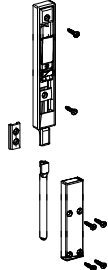
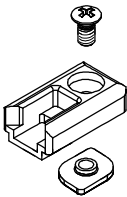
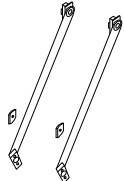
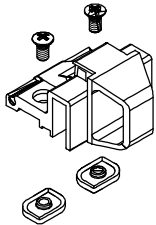
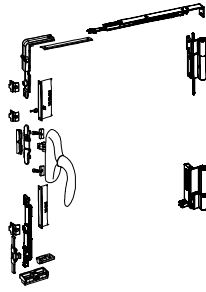
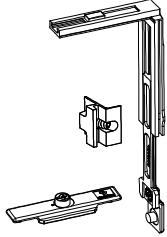
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364.014		- Umetak profila za okretanje Z50-654 otvaranje unutra	PVC	
370.000 370.001 370.002		- Podmetači za staklo 3 mm 370.000 5 mm 370.001 7 mm 370.002	PVC	
373.002		- Umetak za profil okapnice Z40-657	PVC	
373.003		- Maska za drenažni otvor	PVC	
374.002		- Umetak za profil rama	PVC	

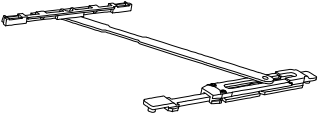
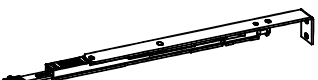
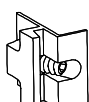
Mehanizmi

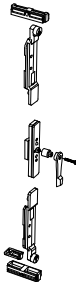
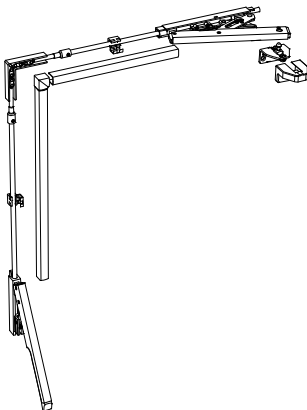
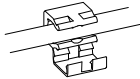
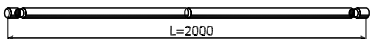
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
111.001.01 02 03		- Dvodijelna šarka EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		
111.002.01 02 03		- Trodijelna šarka EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		
111.003.01 02 03		- Dvodijelna šarka - vani EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		
111.004.01 02 03		- Trodijelna šarka - vani EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		
114.001.01 02 03		- Dvodijelna šarka EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		
113.003.01 02 03		- Dvodijelna šarka EURO ŽLIJEB - Boje: 01-Bijela; 02-Siva; 03-Crna		

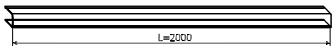
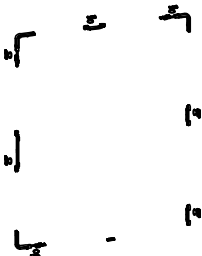
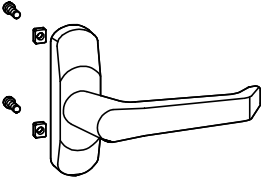
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
113.008.01 02 03		- Dvodijelna šarka OSNO 60 - Boje: 01-Bijela; 02-Siva; 03-Crna	Al. Čelik	
113.009.01 02 03		- Dvodijelna šarka OSNO 70 - Boje: 01-Bijela; 02-Siva; 03-Crna	Al. Čelik	
113.010.01 02 03		- Dvodijelna šarka OSNO 86 - Boje: 01-Bijela; 02-Siva; 03-Crna	Al. Čelik	
113.011.01 02 03		- Dvodijelna šarka OSNO 96 - Boje: 01-Bijela; 02-Siva; 03-Crna	Al. Čelik	

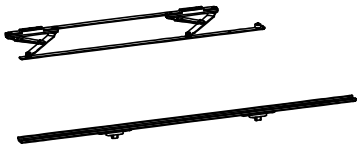
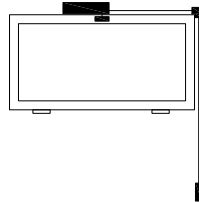
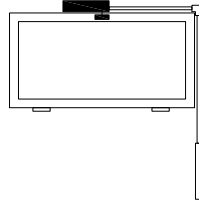
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
104.002.01 02 03		- Ručka za prozor - Boje: 01-Bijela; 02-Siva; 03-Crna	AlSi Zamak	
140.035		- Elementi za povezivanje ručke i klizača	PVC	
143.001		- Zapinjač		
143.002		- Zapinjač - krakun za pasivno krilo		
143.005		- Fiksni zapinjač - krakun za vrata		
144.000		- Zapinjač - krakun za vrata		

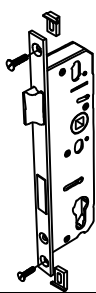
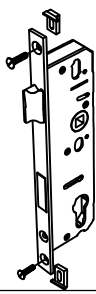
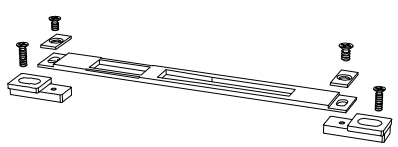
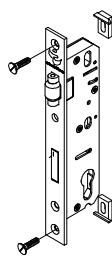
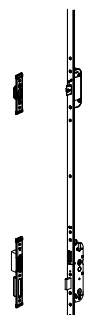
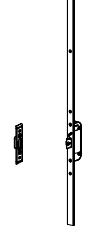
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
143.006		- Zapinjač vanjski		
143.003		- Jednostrani prihvati zapinjača		
131.002		- Škare za ventus prozor		
124.005.01 02 03		- Mehanizam "škljoca" otklopnog prozora - Boje: 01-Bijela; 02-Siva; 03-Crna		
134.000.01 02 03		- Otklopno zaokretni mehanizam (dry kip) - Škare za širinu krila od 535-1200 mm - Boje: 01-Bijela; 02-Siva; 03-Crna	AlSi Zamak	
134.002		- Komplet za bočno zatvaranje kod dry kipa (dodatno ključanje)	AlSi Zamak	

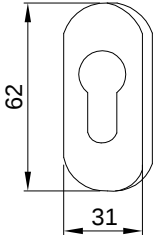
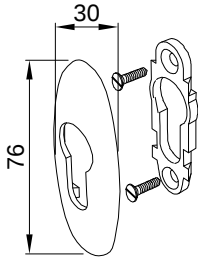
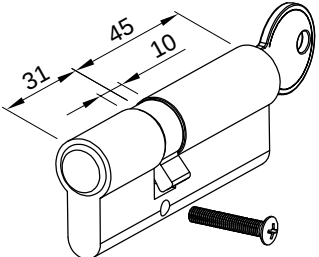
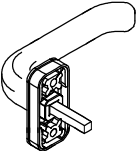
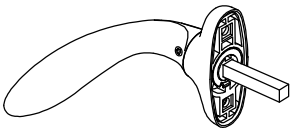
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
134.003		- Pomoćne škare kod dry kipa- za krila od L=1200-1600 mm		
134.014		-Škare za širinu krila od 445-535		
134.015		-Škare za širinu krila od 535-1200- (dio osnovnog seta)		
134.016		-Škare za širinu krila od 1200-1400		
134.004		- Dodatno ključanje-prihvatnik tuljca		
134.005		- Dodatno ključanje-tuljac		

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
134.001		- Komplet okova za fiksiranje pomoćnog krila		
134.017		- Komplet okova za fiksiranje pomoćnog krila		
134.006.01 02 03		- Ventus komplet širina krila do 1200 mm - Boje: 01-Bijela; 02-Siva; 03-Crna		
134.007		- Ventus vodilica PVC		
134.008		- Šipka ventusa L=2000 mm		

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
134.010.01 02 03		- Pokrov ventusa L=2000 mm - Boje: 01-Bijela; 02-Siva; 03-Crna		
134.009		- Spojnica šipke ventusa		
133.027		- Otklopno-klizni mehanizam (notter)- bazni mehanizam-osnovni set	AlSi Zamak	
133.028.01 02 03		-Ručka sa pogonom		
133.029		-Točkići		
133.030		-Pločice		

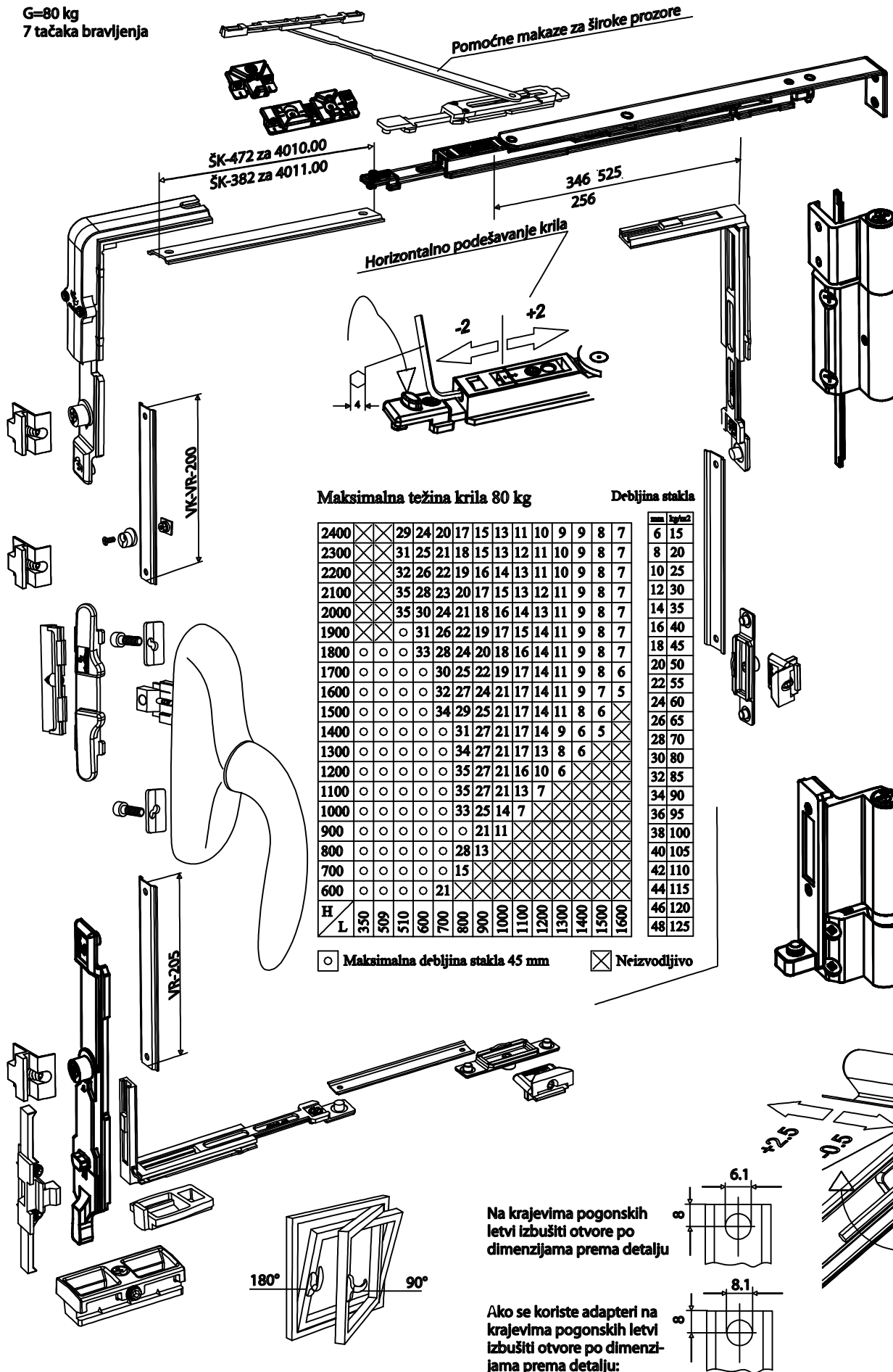
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
133.033		-Dodatak po širini-za širine krila veće od 1481 mm		
133.031		- Škare - za širine krila 630-930		
133.032		- Škare - za širine krila 931-1280		
145.001		- Mehanizam za otklopno na visini sa špagom		
146.001.01 02 03		- Mehanizam za otklopno na visini sa šipkom - Boje: 01- bijela; 02 - siva;03 - crna 1.Škare 2.Ručica 3.Šipka Ø8 4.Pokrovni profil		

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
124.016		- Brava 25 mm sa jezičkom	Inox Čelik	
124.001		- Brava 35 mm sa jezičkom	Inox Čelik	
124.003		- Prihvatnik jezička brave (šild)	Inox Čelik	
124.010		- Brava 35 mm sa valjkom	Inox Čelik	
126.001		- Sigurnosna brava 35 mm <u>sa jezičkom</u> (ISEO) - Ključanje u tri točke - Prihvatnik za bravu-šild	Inox Čelik	
126.002		- Sigurnosna brava 35 mm <u>sa valjkom</u> (ISEO) - Ključanje u tri točke - Prihvatnik za bravu-šild	Inox Čelik	

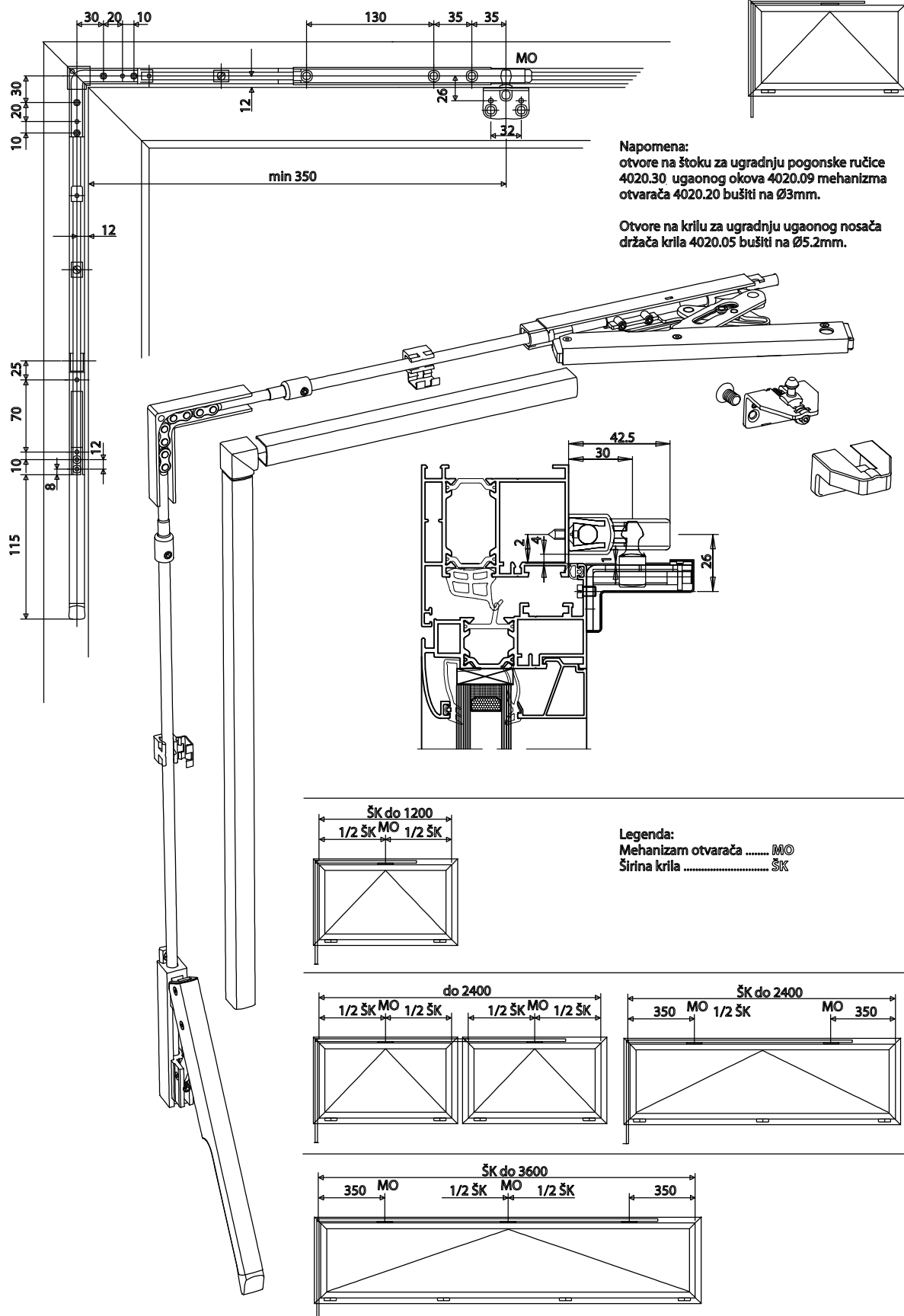
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
125.001		- Prihvatnik jezička brave (šild)	Inox Čelik	
123.001.01 02 03		- Štitnik cilindra za bravu (par) - Boje: 01- bijela; 02 - siva;03 - crna	PVC	
124.004.01 02 03		- Štitnik cilindra za bravu (par) - Boje: 01- bijela; 02 - siva;03 - crna	Zn Čelik	
124.014		- Uložak za bravu 31/45	Čelik	
103.001.01 02 03		- Ručke za vrata (par) - Boje: 01- bijela; 02 - siva;03 - crna	AlSi Zamak	
104.001.01 02 03		- Ručke za vrata (par) - Boje: 01- bijela; 02 - siva;03 - crna	AlSi Zamak	

134.000.xx-OTKLOPNO-ZAOKRETNI MECHANIZAM-Stublina

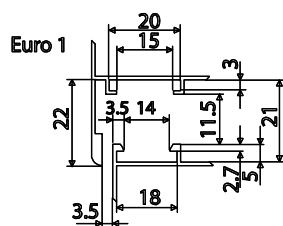
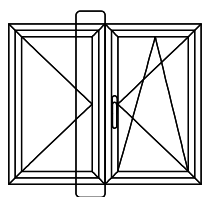
G=80 kg
7 tačaka bravljenja



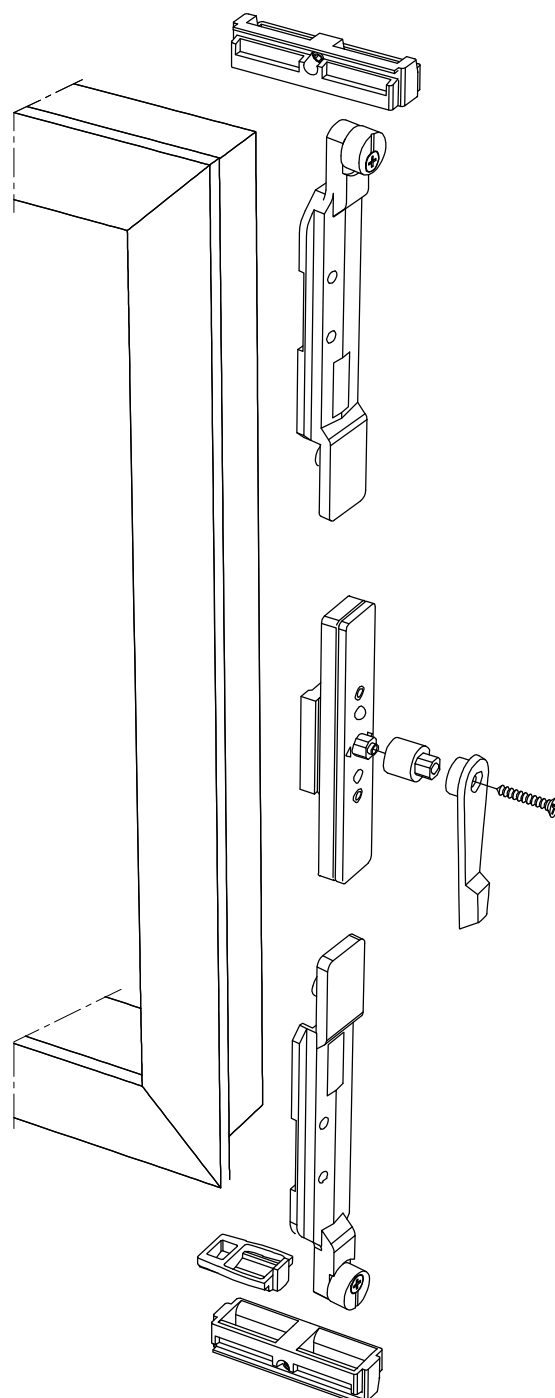
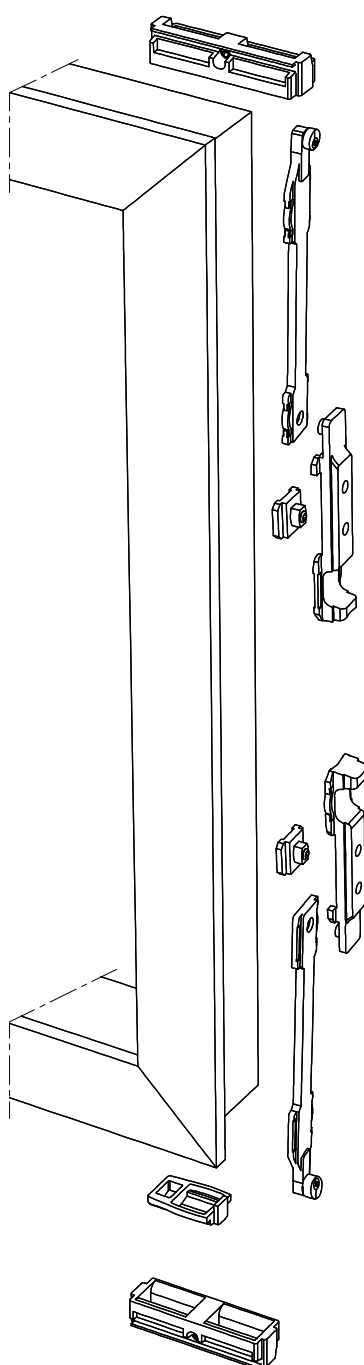
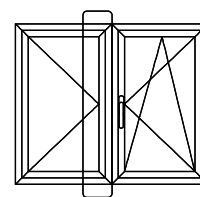
134.006.xx-OTKLOPNI MEHANIZAM (VENTUS)-Stublina (art.4020.00)



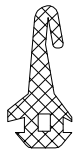
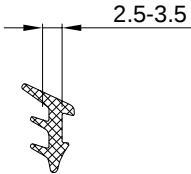
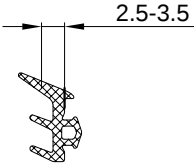
134.001-Komplet okova za
fiksiranje pomočnog krila)-Stublina
(art.4001.00)

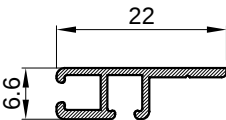
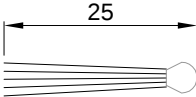
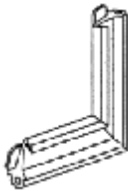


134.017-Komplet okova za
fiksiranje pomočnog krila)-Stublina
(art.4005.00)

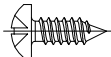


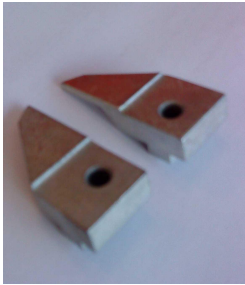
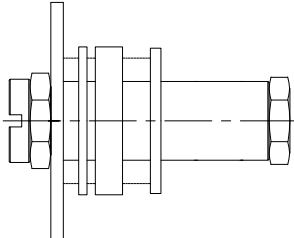
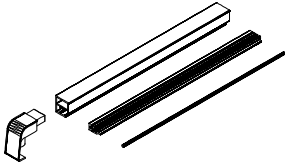
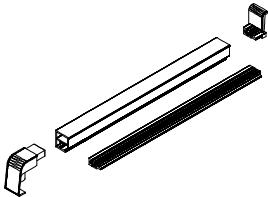
Brtvila

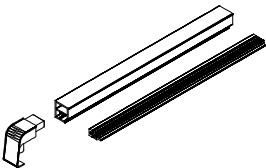
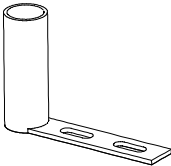
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
331.003		- Srednja brtva	EPDM	80
321.001		- Brtva u krilu	EPDM	61
311.001		- Brtva prema staklu /unutarnja/	EPDM	71
311.002		- Brtva prema staklu /unutarnja/	EPDM	71
321.002		- Brtva prema staklu /vanjska/	EPDM	61
321.003		- Brtva prema staklu	EPDM	61

Oznaka		Opis	Materijal	Napomena
311.007 311.008 311.009 311.010		- Brtva prema staklu /vanjska/	EPDM	71
521.001		- Držač četkaste brtve L=2500 mm	Al.	
347.001		- Četkasta brtva L=2500 mm		
366.001		- Kutni umetak za brtvu 331.003 otvaranje unutra L=50x50	EPDM	
347.003		- Četkasta brtva 7x9	EPDM	

Dodaci

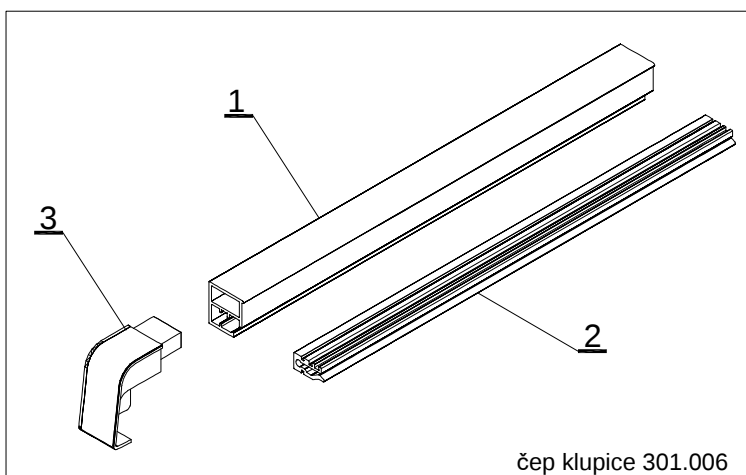
Oznaka	Opis	Izgled-presjek	Materijal	Napomena
433.017	Vijak 3.9x16 DIN 7981		INOX A2	
433.029	Vijak 4.2x16 DIN 7981		INOX A2	
433.030	Vijak 4.2x19 DIN 7981		INOX A2	
433.047	Vijak 4.8x38 DIN 7981		INOX A2	
433.105	Vijak 3.9x16 DIN 7982		INOX A2	

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
210.001		- Štanca za otklopno zaokretne sisteme prozora i vrata S1		
240.001		- Kliješta za kutne kutne spojnice		
240.001.00.01		- Noževi za kliješta kutnih spojnica		
220.005		- Grupa glodala za obradu prečki prema profilu krila i okvira (Z50)	Čelik	
301.006.01 02 03		- Set za bočni čep klupice	PVC TPE Al.	
301.009.01 02 03		- Set za bočni čep klupice	PVC TPE Al.	

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
301.010.01 02 03		- Set za bočni čep klupice - za klupicu 360 mm	PVC TPE Al.	
521.059		- Nosač za profil F-0352-A	PVC	

SET ZA BOČNI ČEP PROZORSKE KLUPICE 301.006

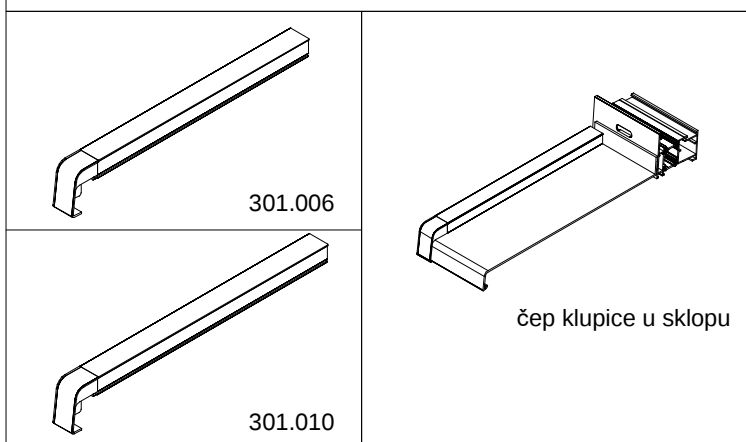
1. - Osnovni profil
2. - PVC prihvatnik klupice
3. - Vanjski čep-prihvatnik klupice i profila



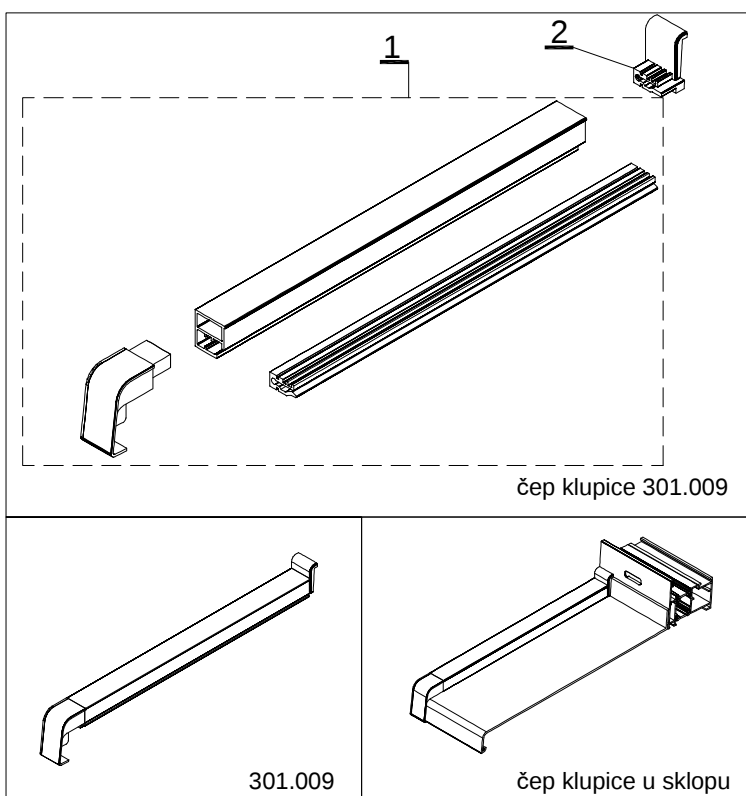
1. Set za bočni čep klupice **301.006**
2. Set za bočni čep klupice **301.009**
3. Set za bočni čep klupice **301.010**

-Setovi bočnih čepova 301.006 i 301.009 su u veličini profila klupice F-0680/J (280 mm)
 -Za manje klupice se radi skraćivanje čepa prema mjerama u uputstvu artikla

-Set za bočni čep 301.010 -(360 mm)
 -Izbor boje čepova prema RAL-karti

SET ZA BOČNI ČEP PROZORSKE KLUPICE 301.009

1. - Set klupice 301.006
2. - Čep do otvora-prihvatnik klupice i profila

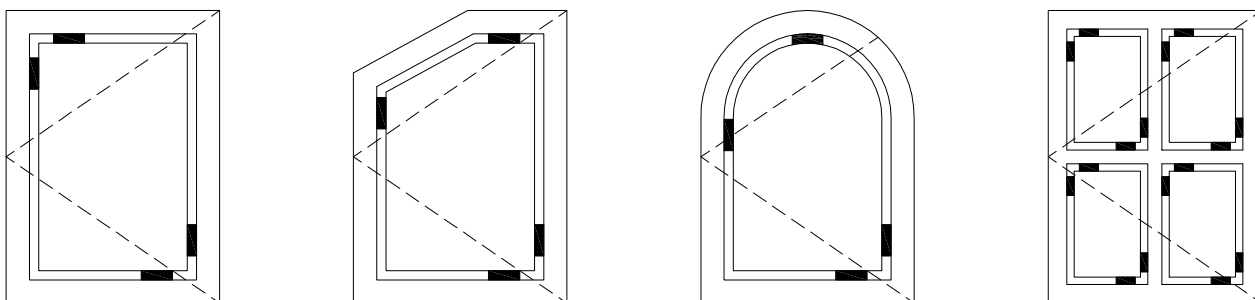


Prikaz stakljenja

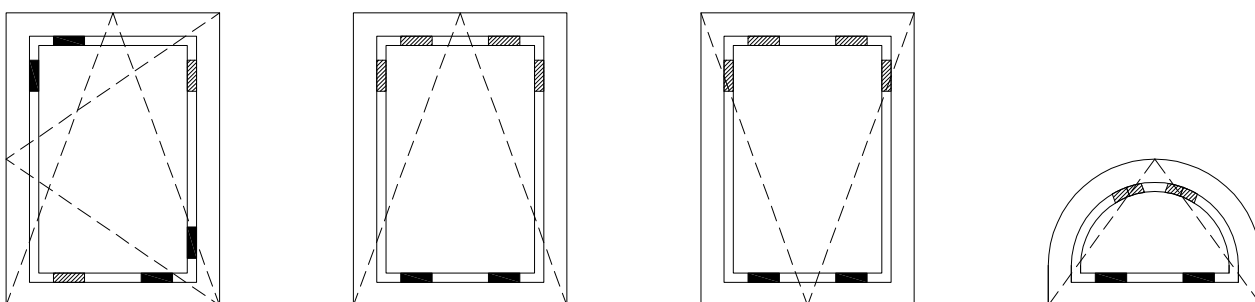
Vanjske brtve Unutarnja brtva						
321.003 (Z113)	321.002 (Z111)	311.002 (918)				
4.5-5.5	3.5	3.5-4.5				
Ispuna X	Vanjska brtva	Unutarnja brtva	LAJSNE ZA STAKLO			
						 Z40-670
			 Z40-659			 Z40-669
5-6	321.003	311.002	 Z40-653	 Z40-653/B	 Z40-661	 Z40-668
7	321.002	311.002				
10-11	321.003	311.002	 Z40-658			 Z40-667
12	321.002	311.002				
15-16	321.003	311.002	 Z40-644	 Z40-646	 Z40-648	 Z40-666
17	321.002	311.002				
20-21	321.003	311.002	 M45-709	 M45-740	 Z40-662	 Z40-665
22	321.002	311.002				
25-26	321.003	311.002	 Z40-636	 Z40-647	 Z40-649	 Z40-664
27	321.002	311.002				
30-31	321.003	311.002	 Z40-656			
32	321.002	311.002				
34-35	321.003	311.002	 Z40-660			
36	321.002	311.002				

Presjeci

PREPORUKE ZA RASPORED PODMETAČA KOD UGRADNJE ELEMENATA ZA ISPUNU

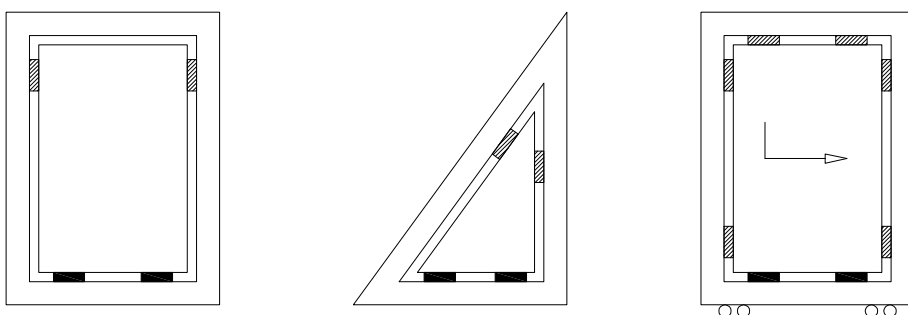


zaokretno



otklopno-zaokretno

otklopno

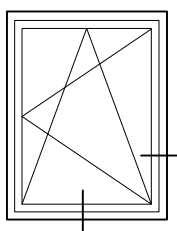


fiksno

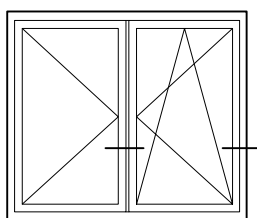
otklopno klizno

-  nosivi podmetač
-  odstojni podmetač

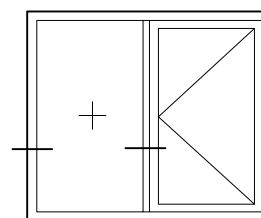
Materijal podmetača: pvc



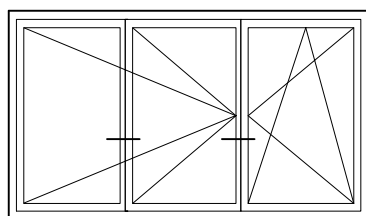
str. 01



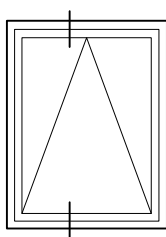
str. 02



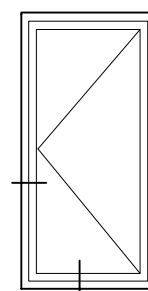
str. 03



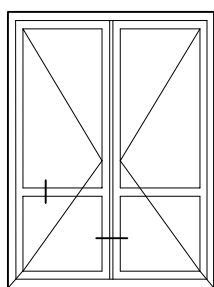
str. 04



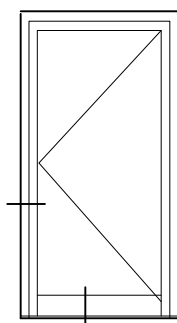
str. 05



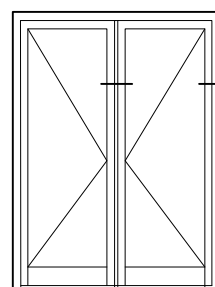
str. 06



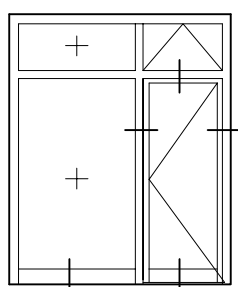
str. 07



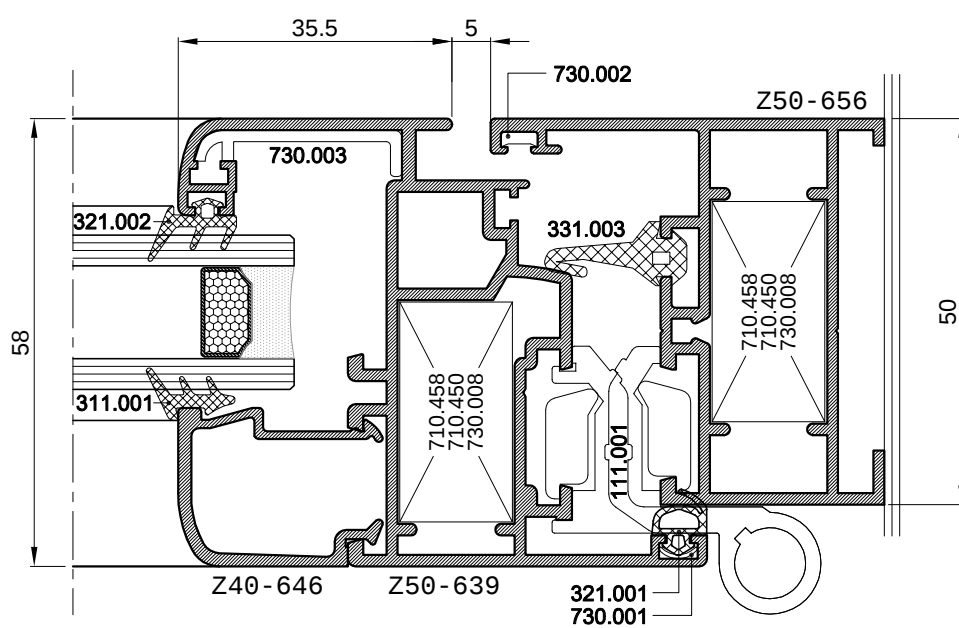
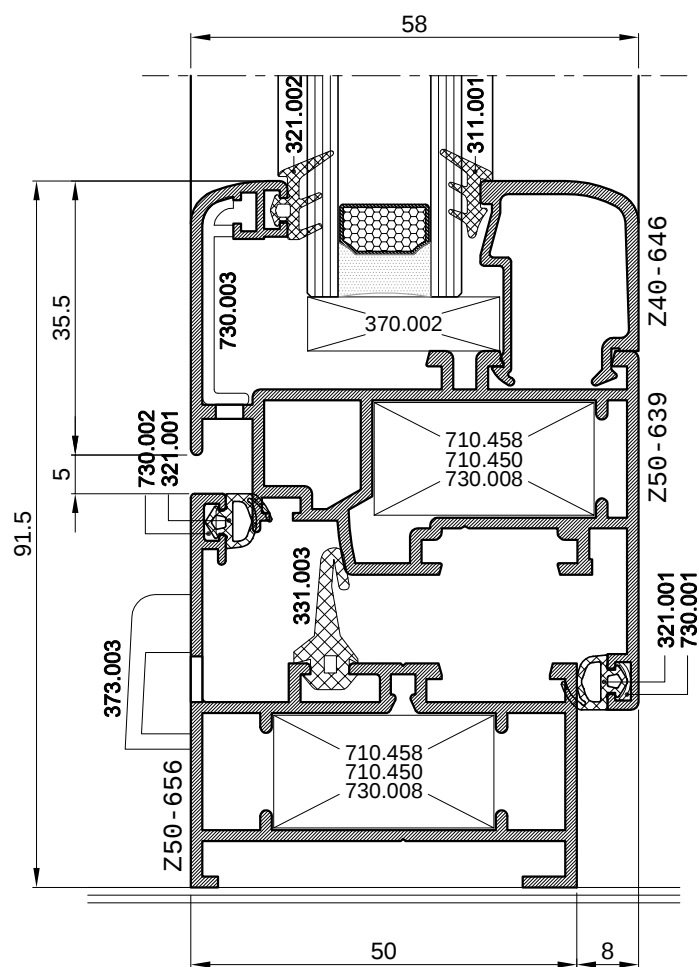
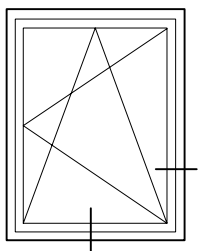
str. 08

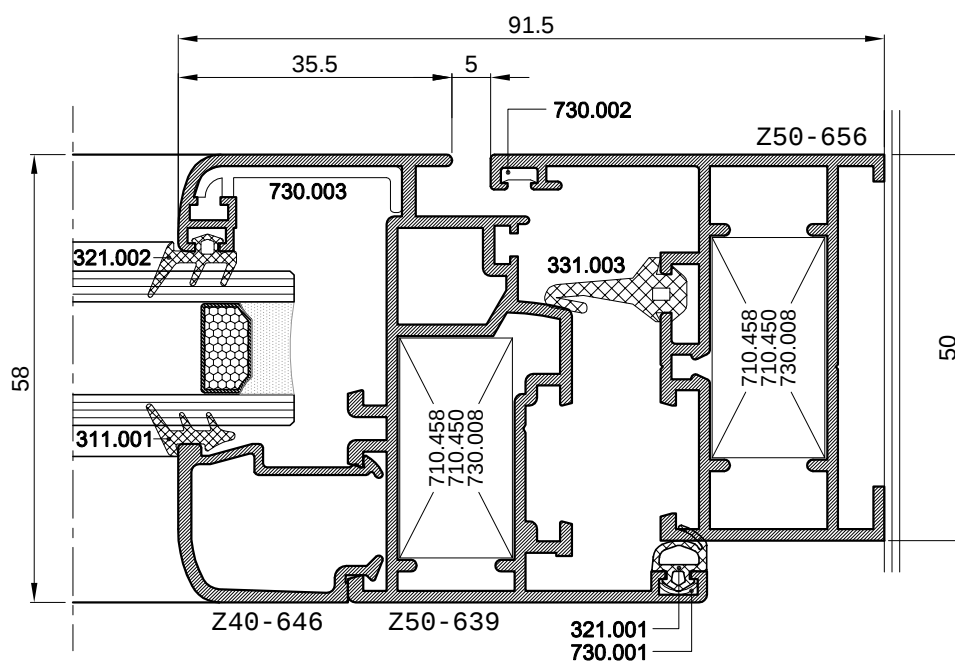
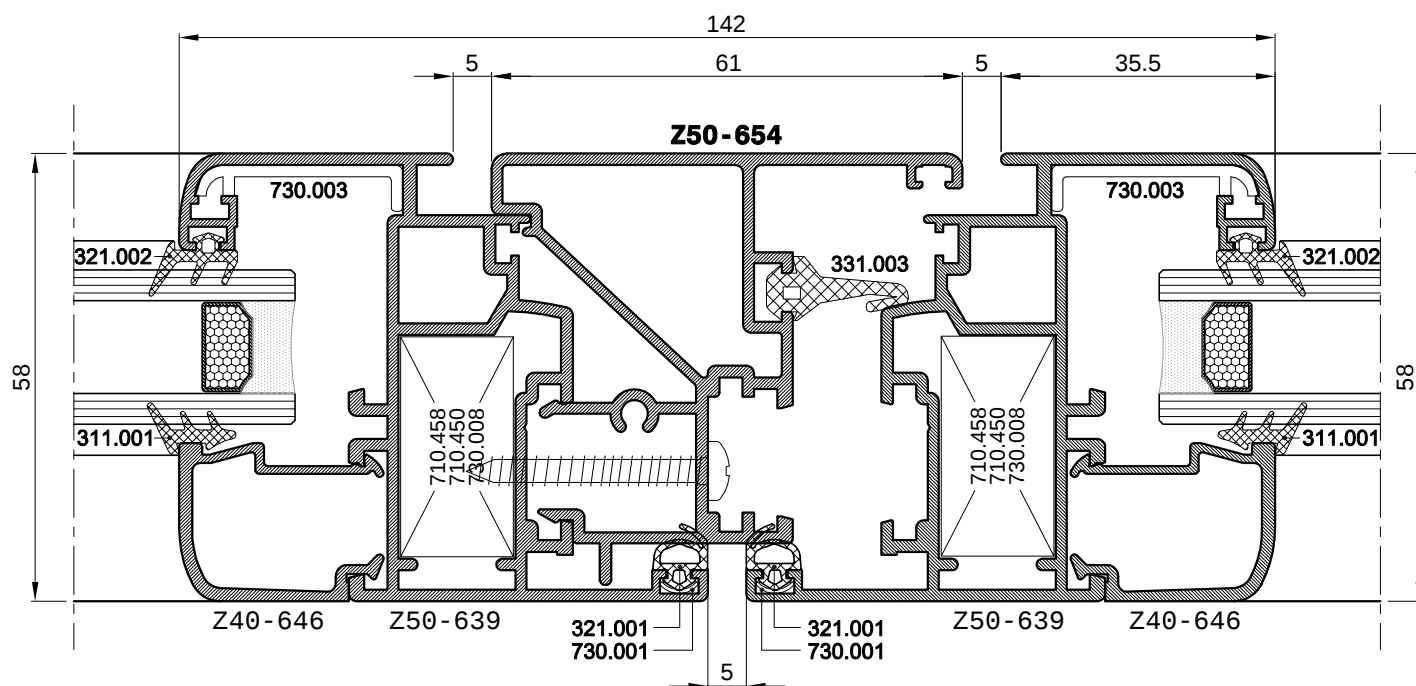
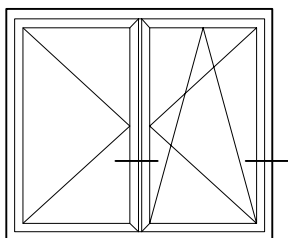


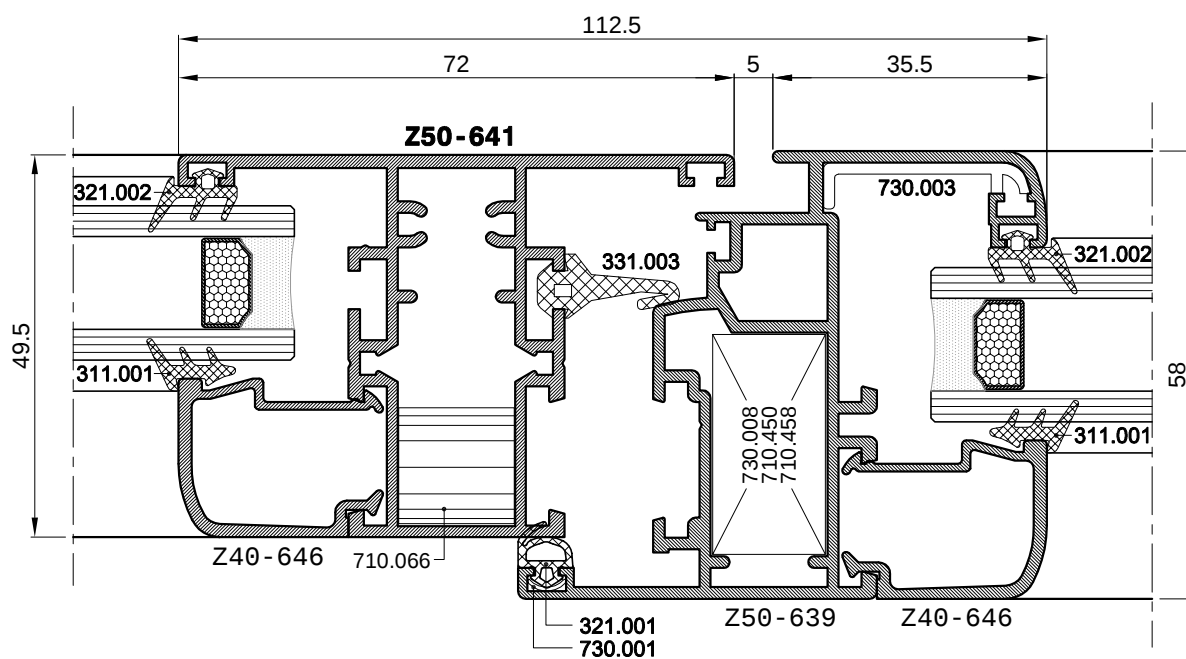
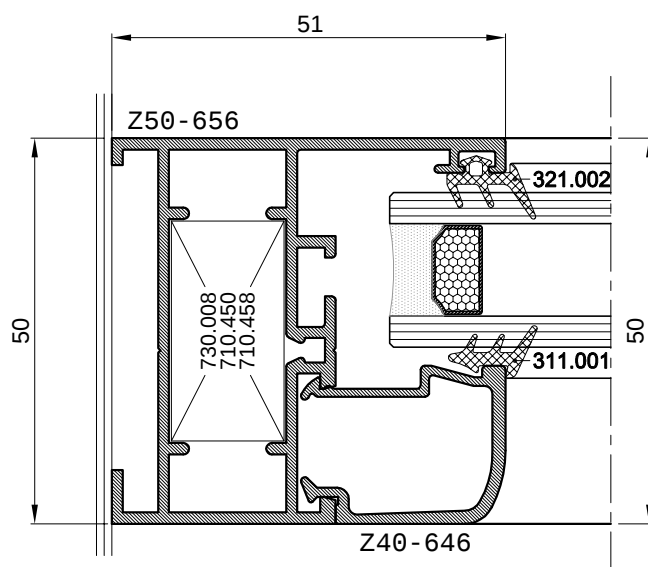
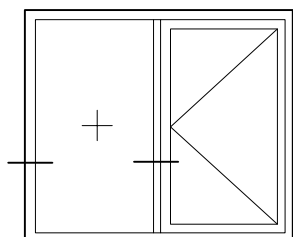
str. 09

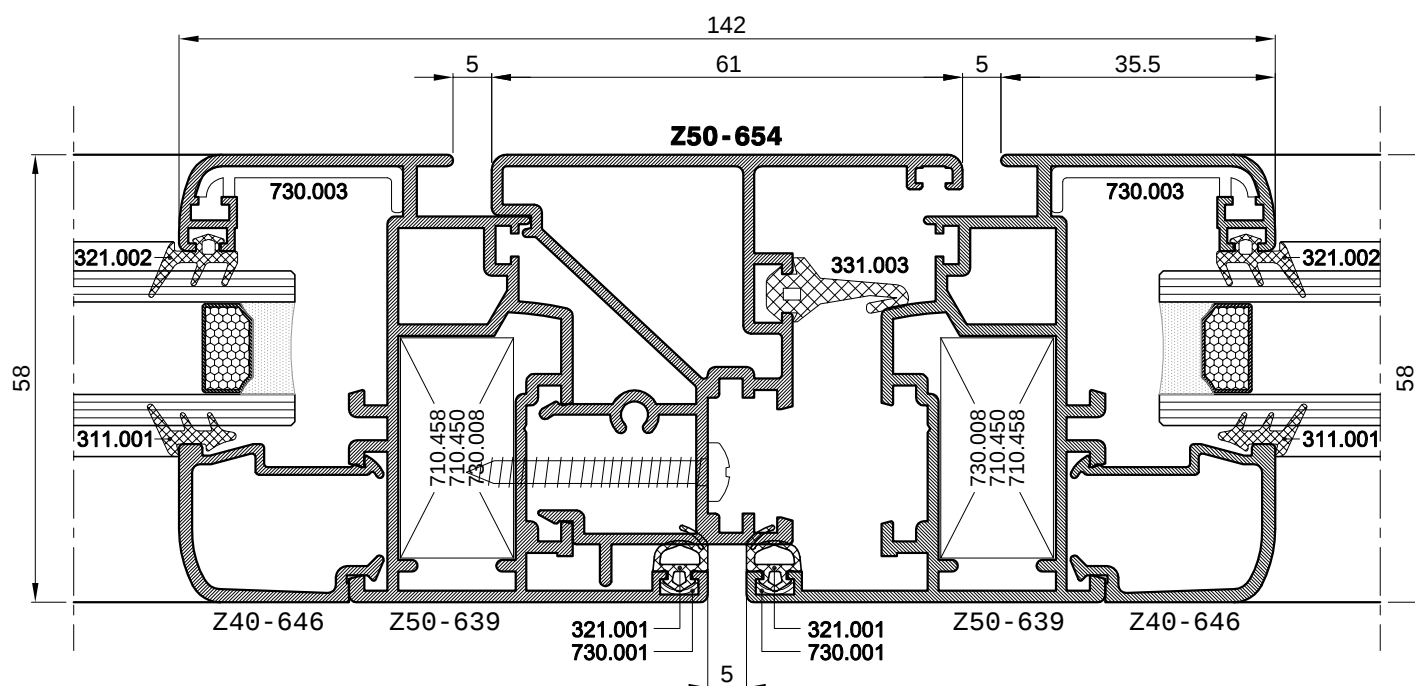
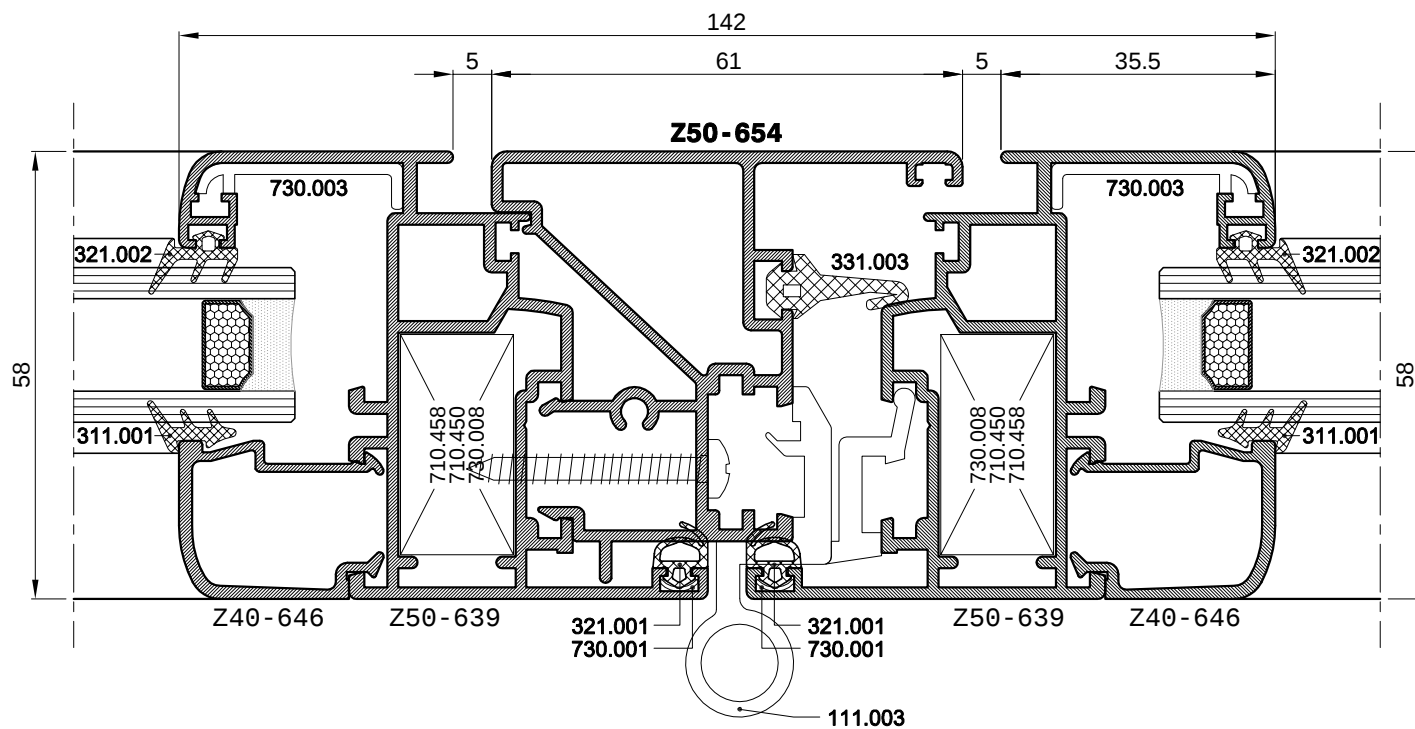
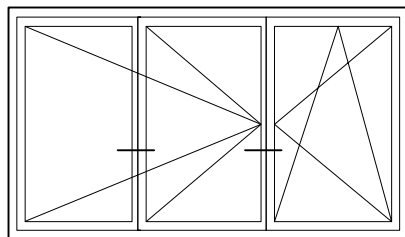


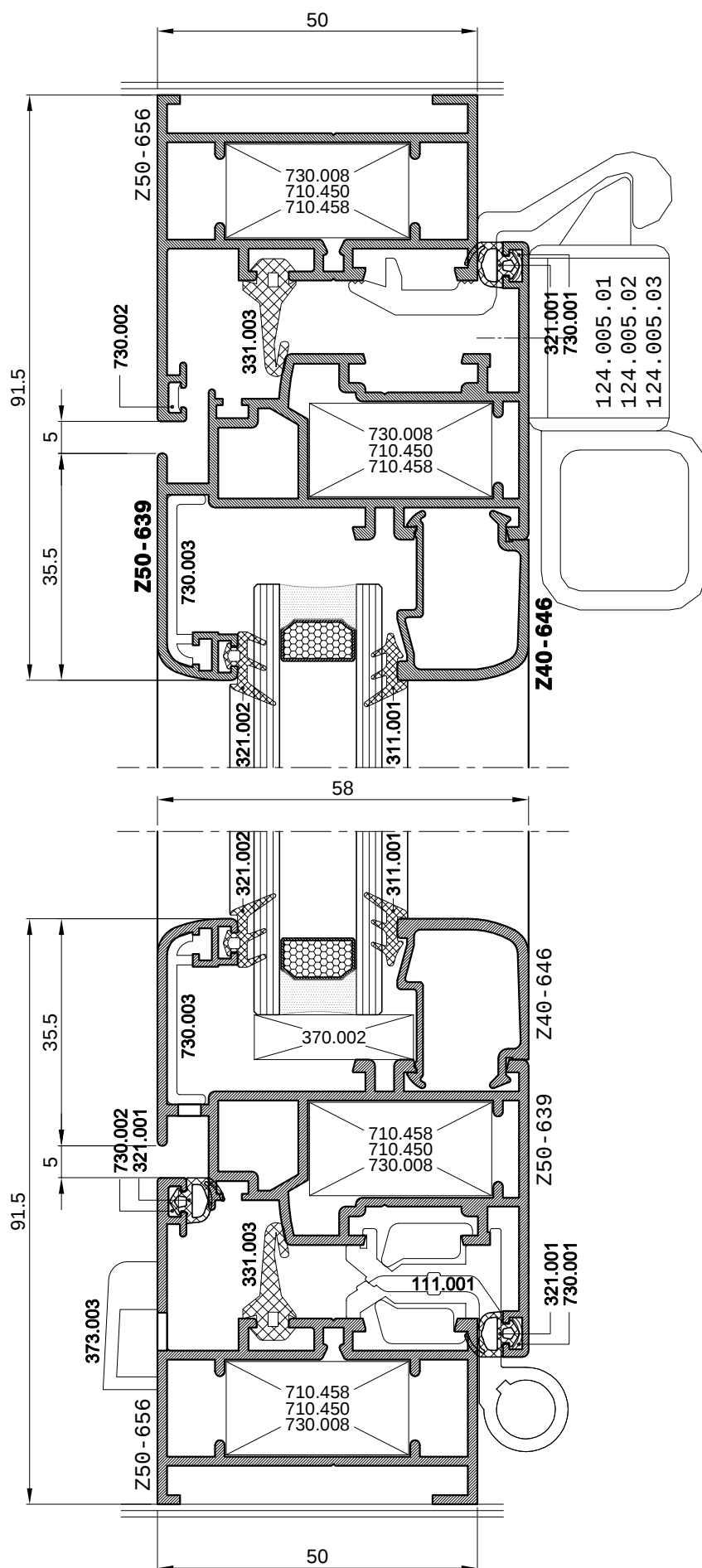
str. 10-11

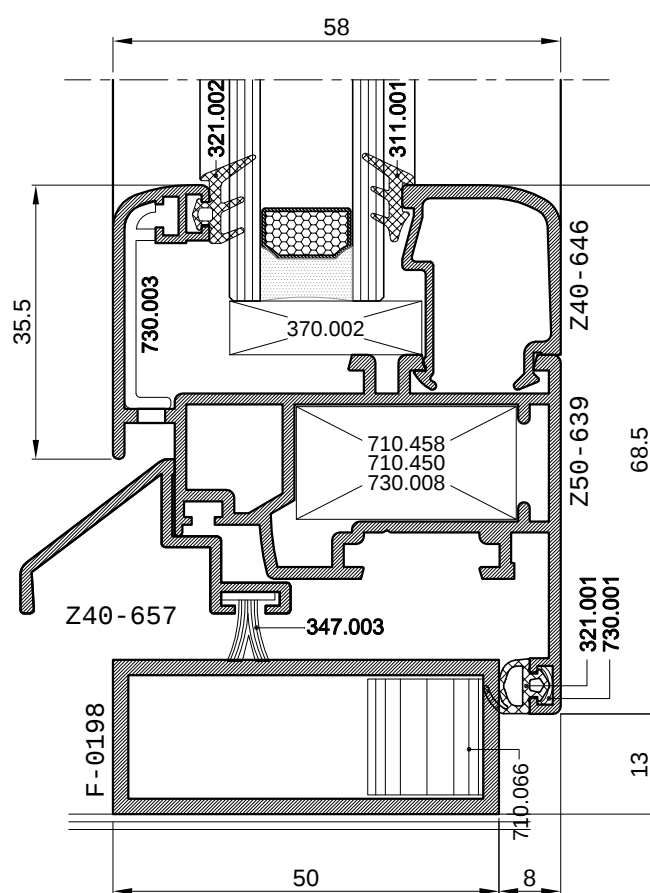
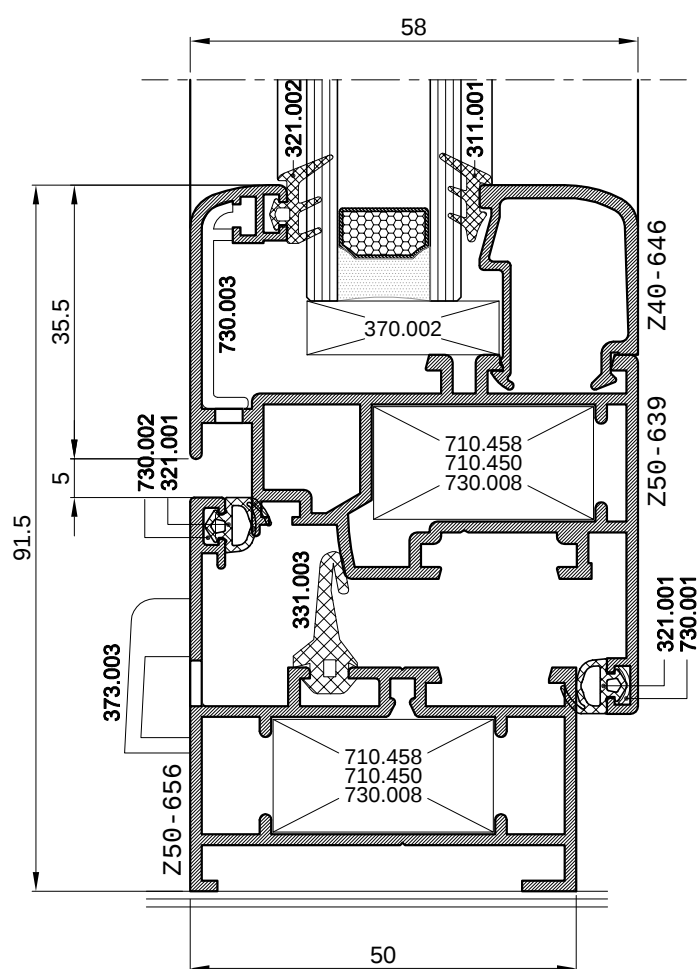
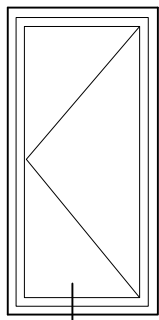


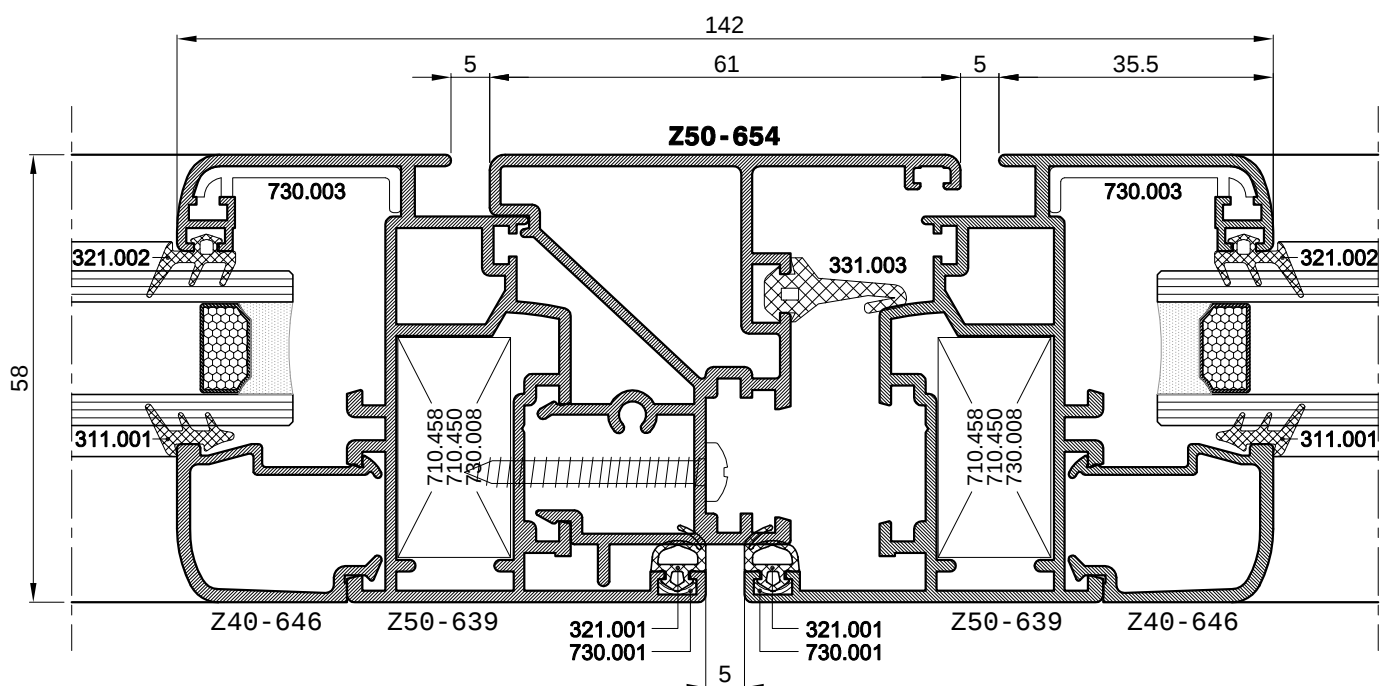
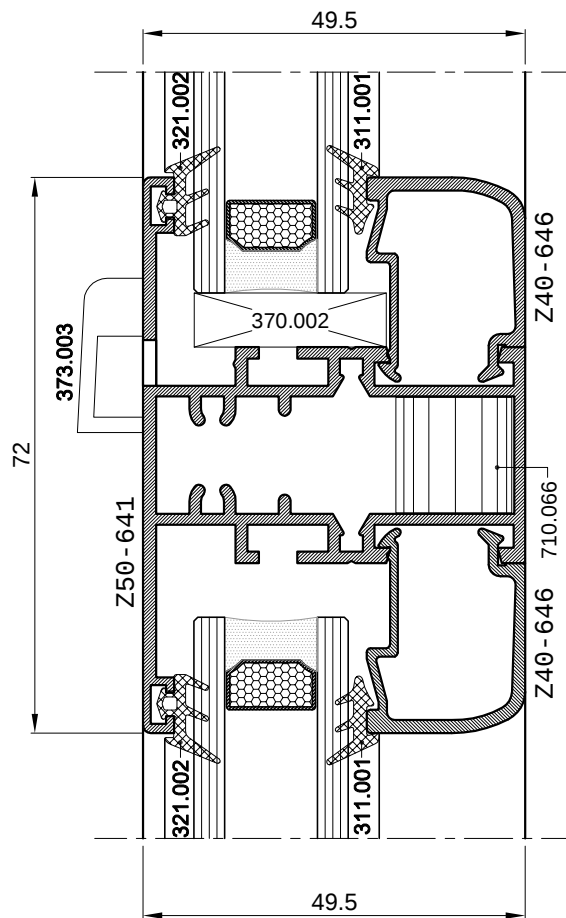
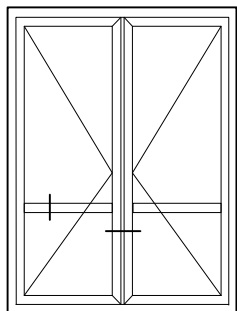


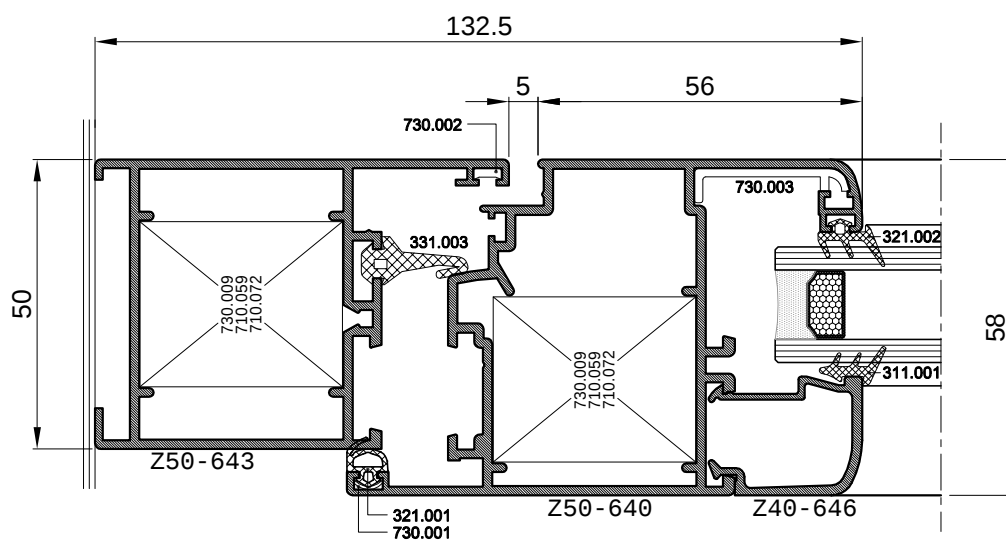
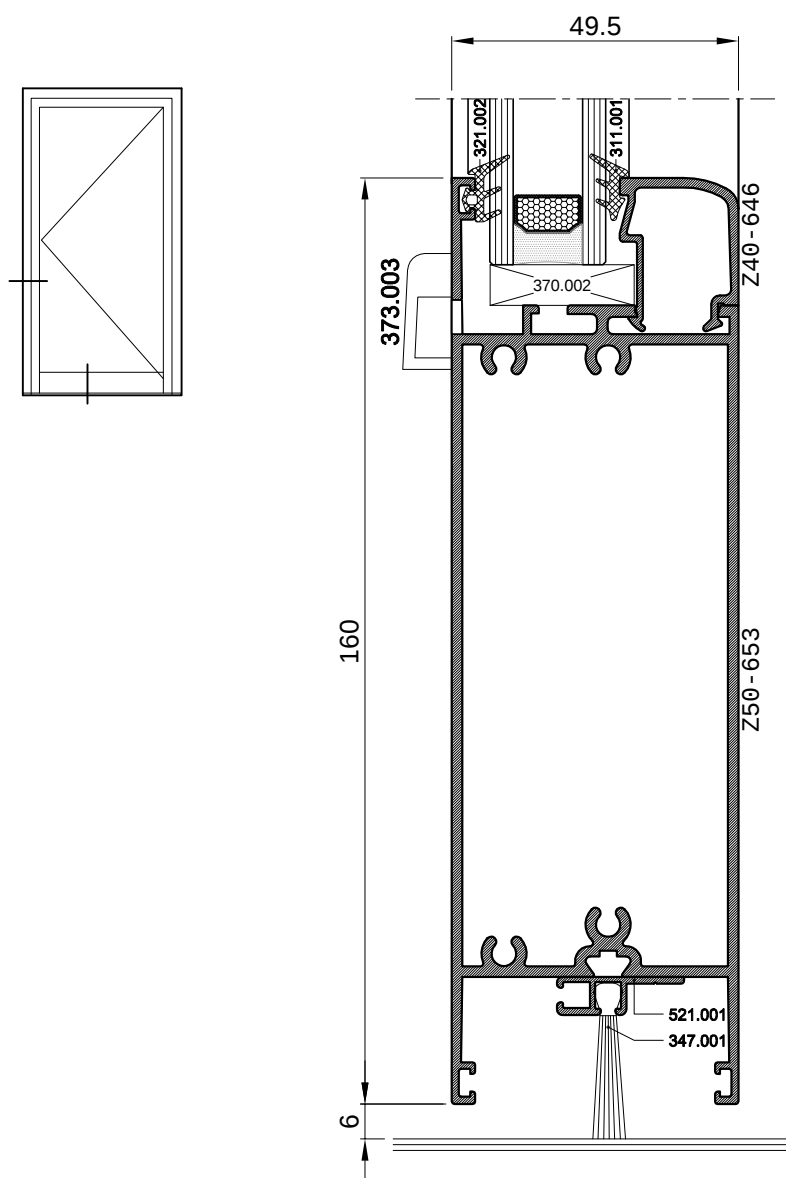


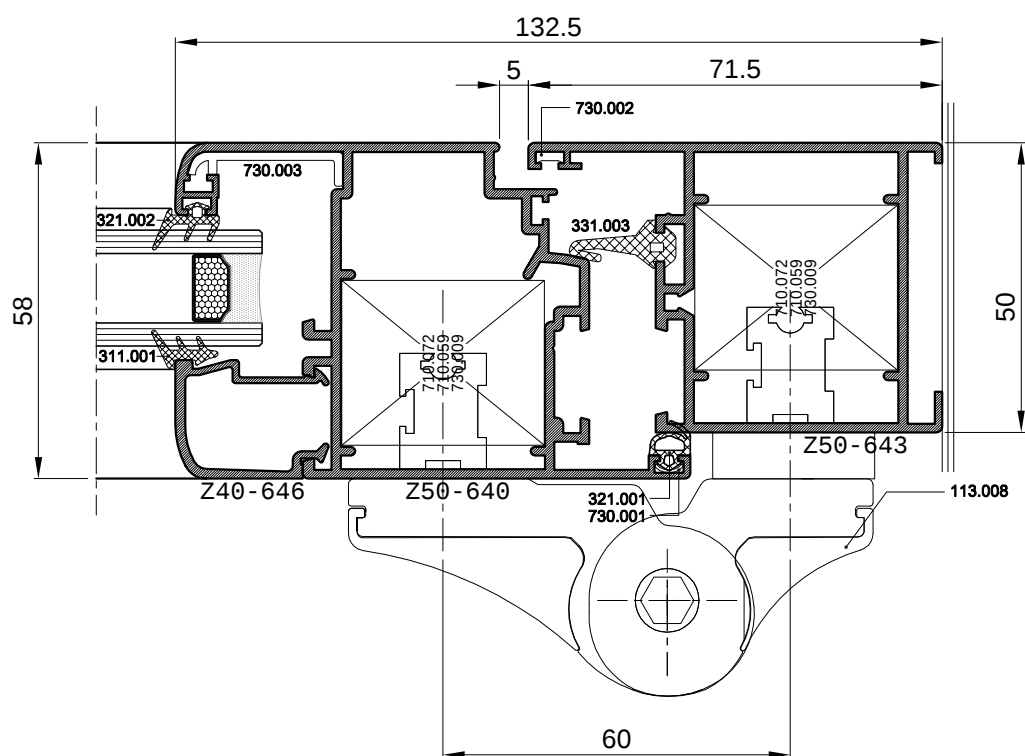
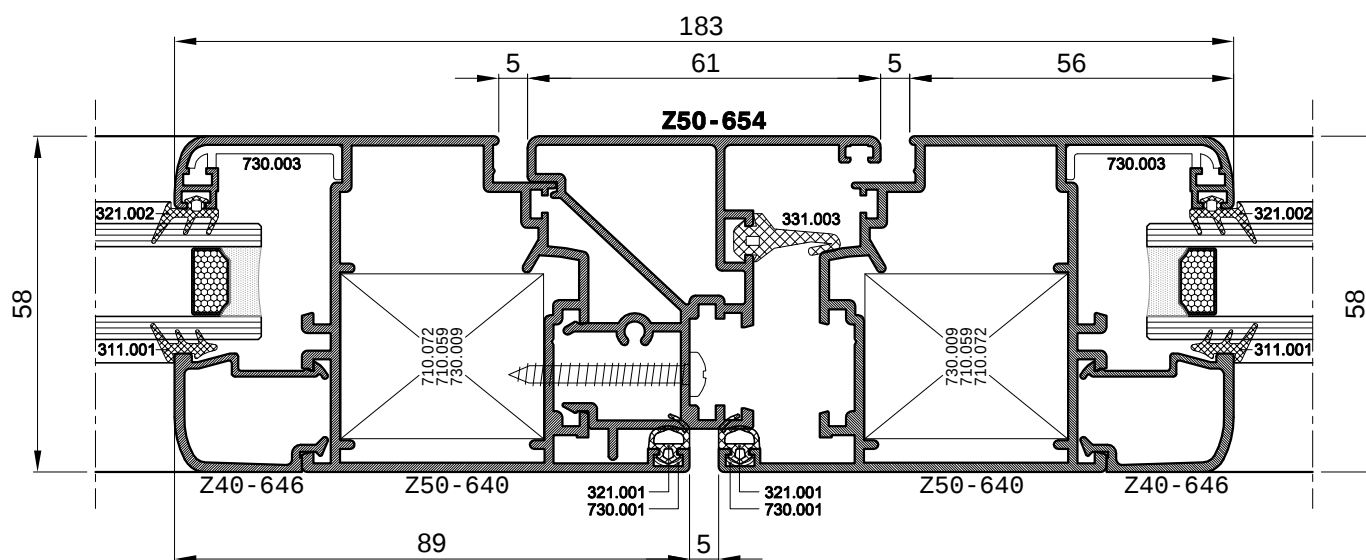
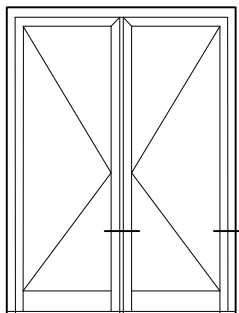


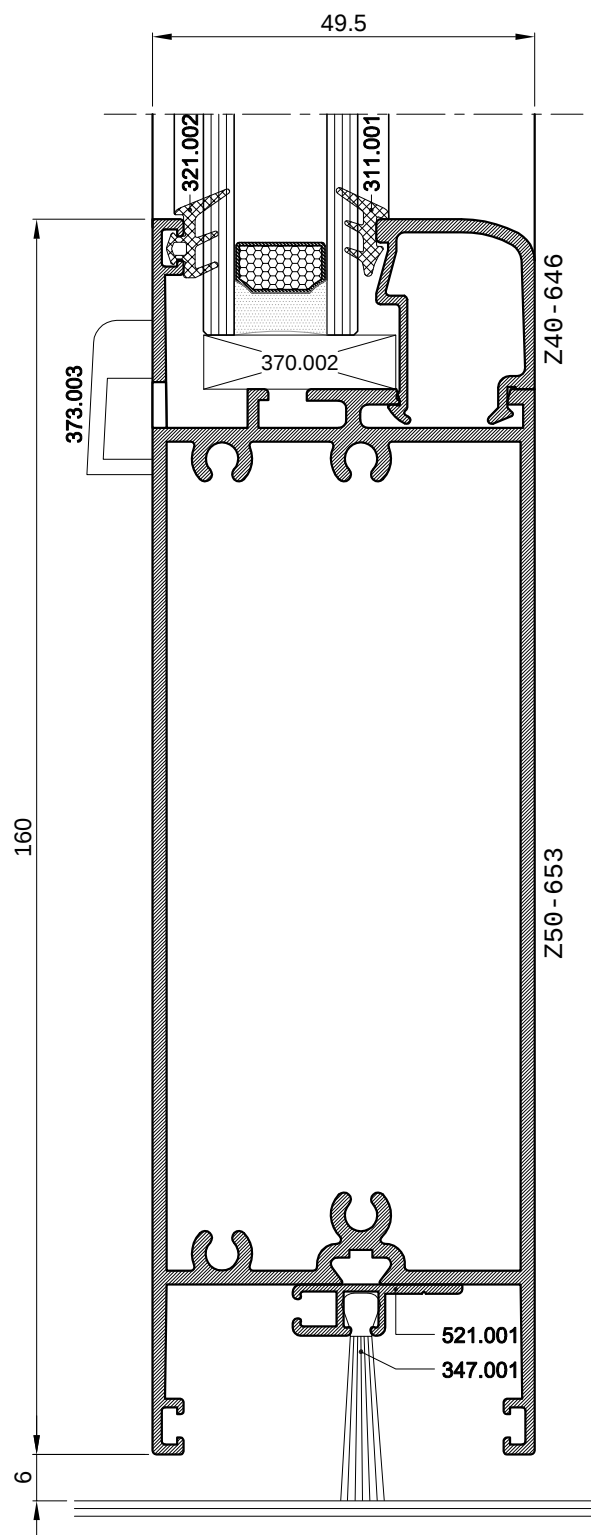
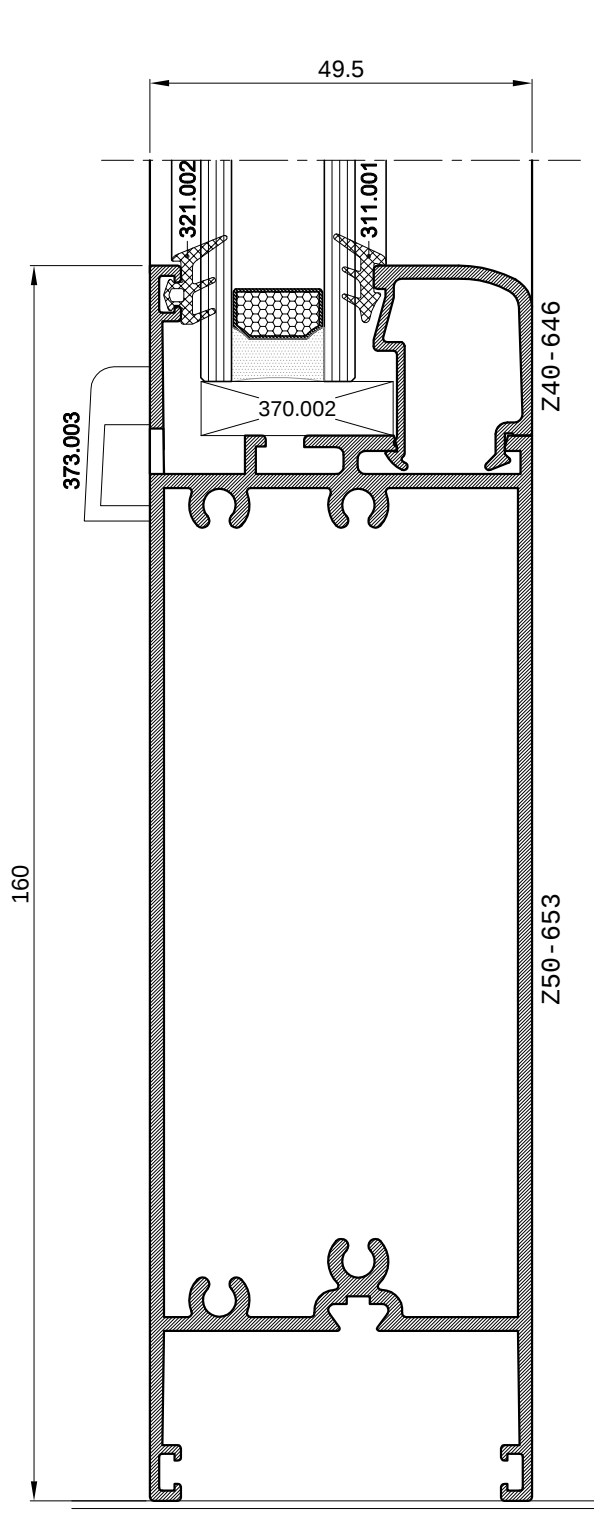
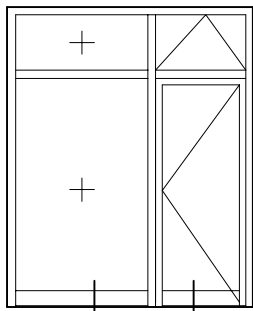


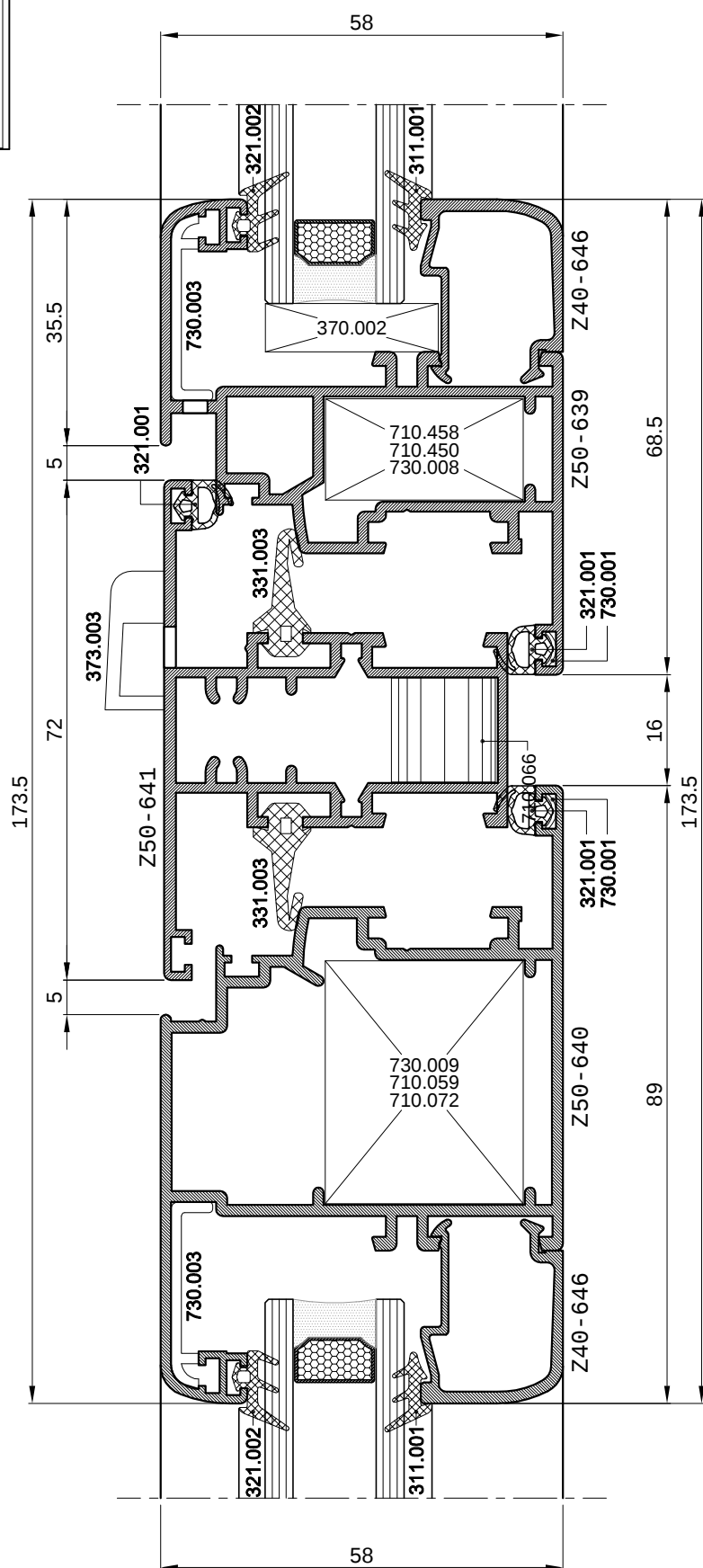
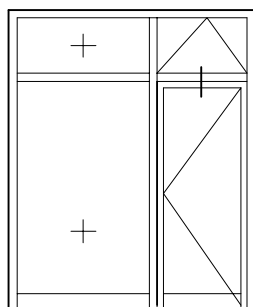


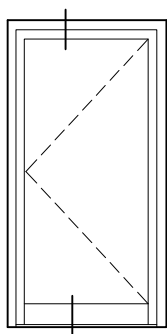




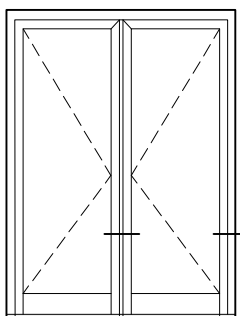




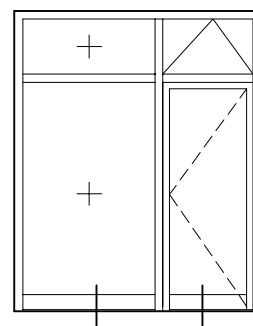




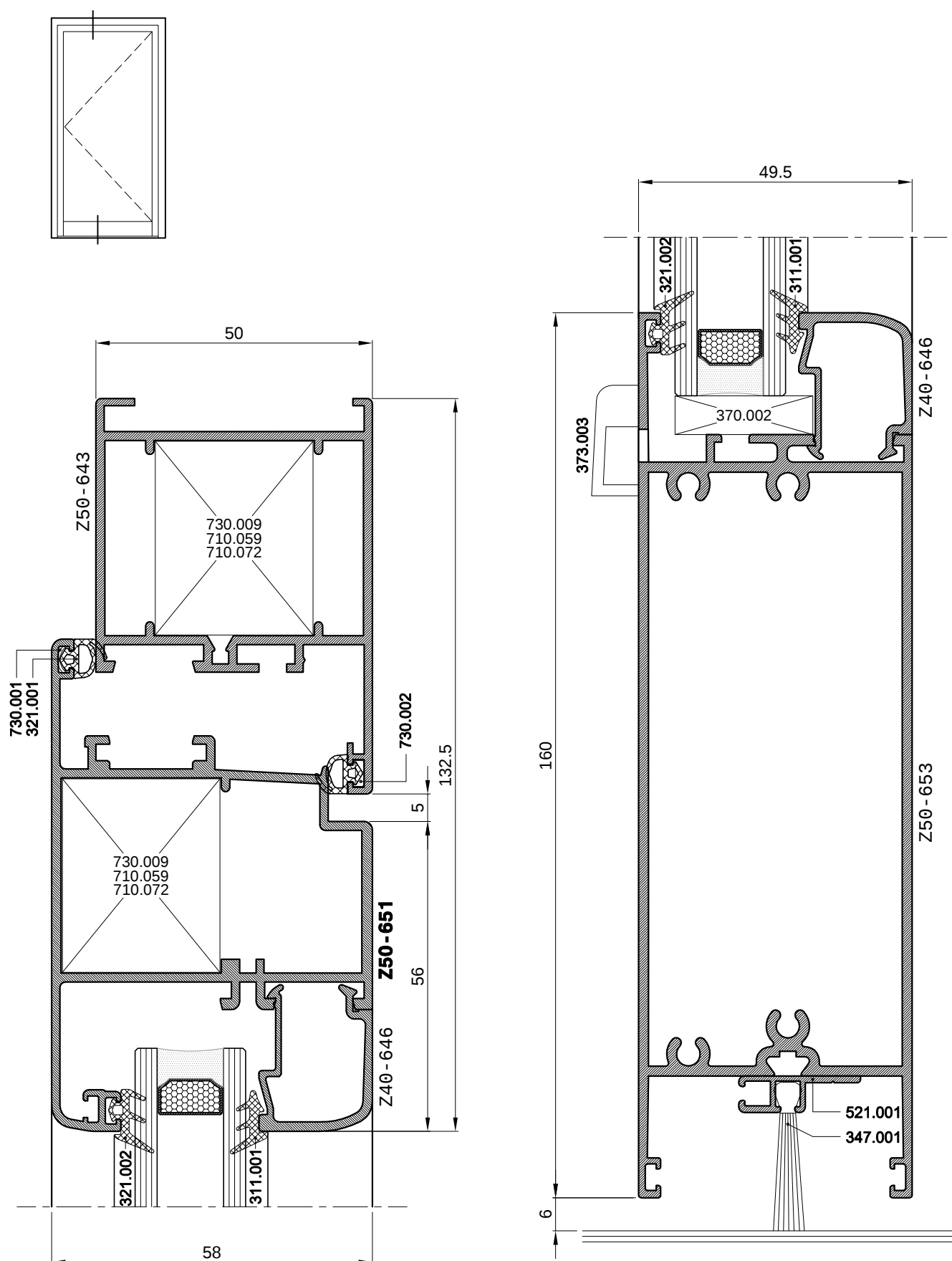
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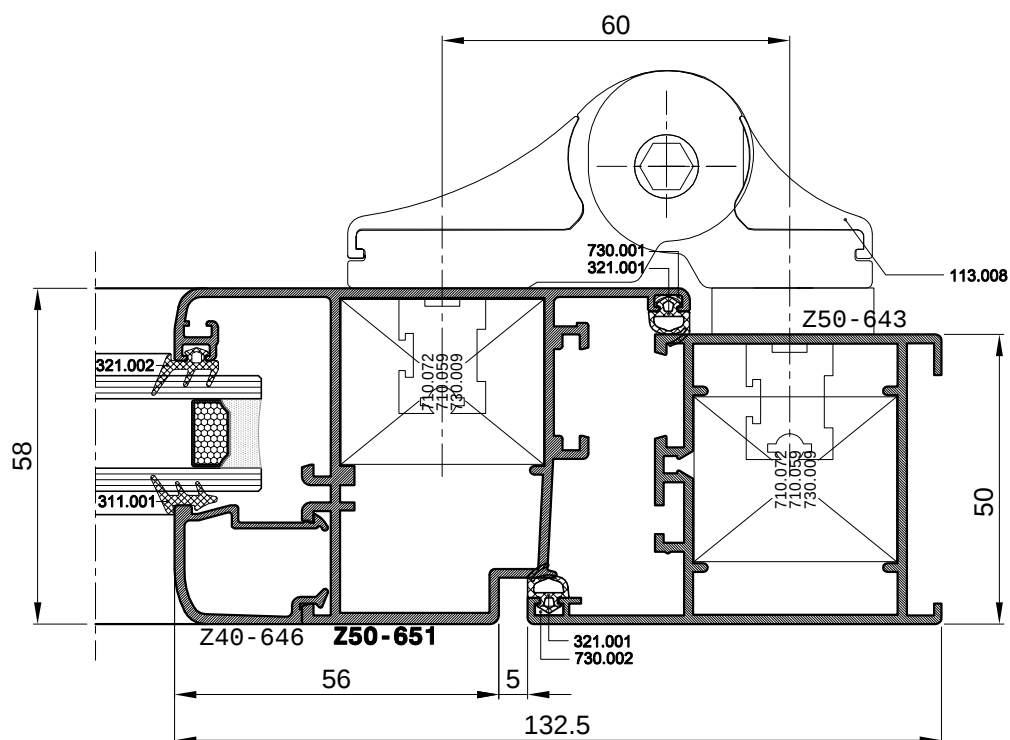
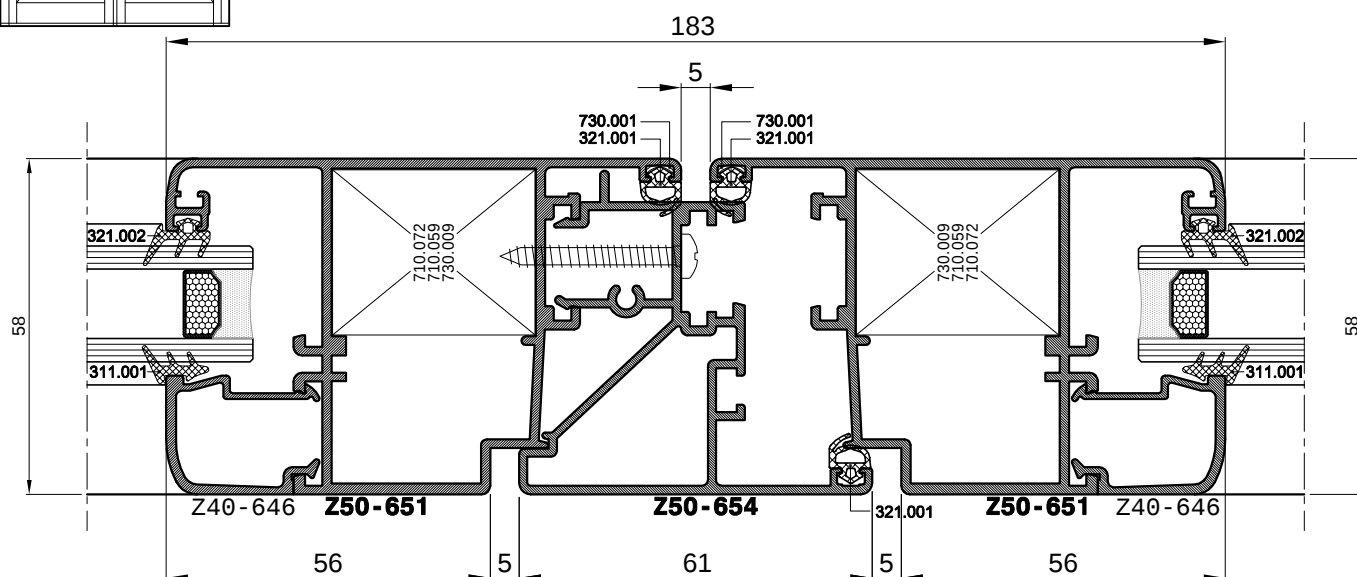
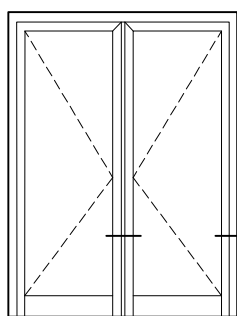


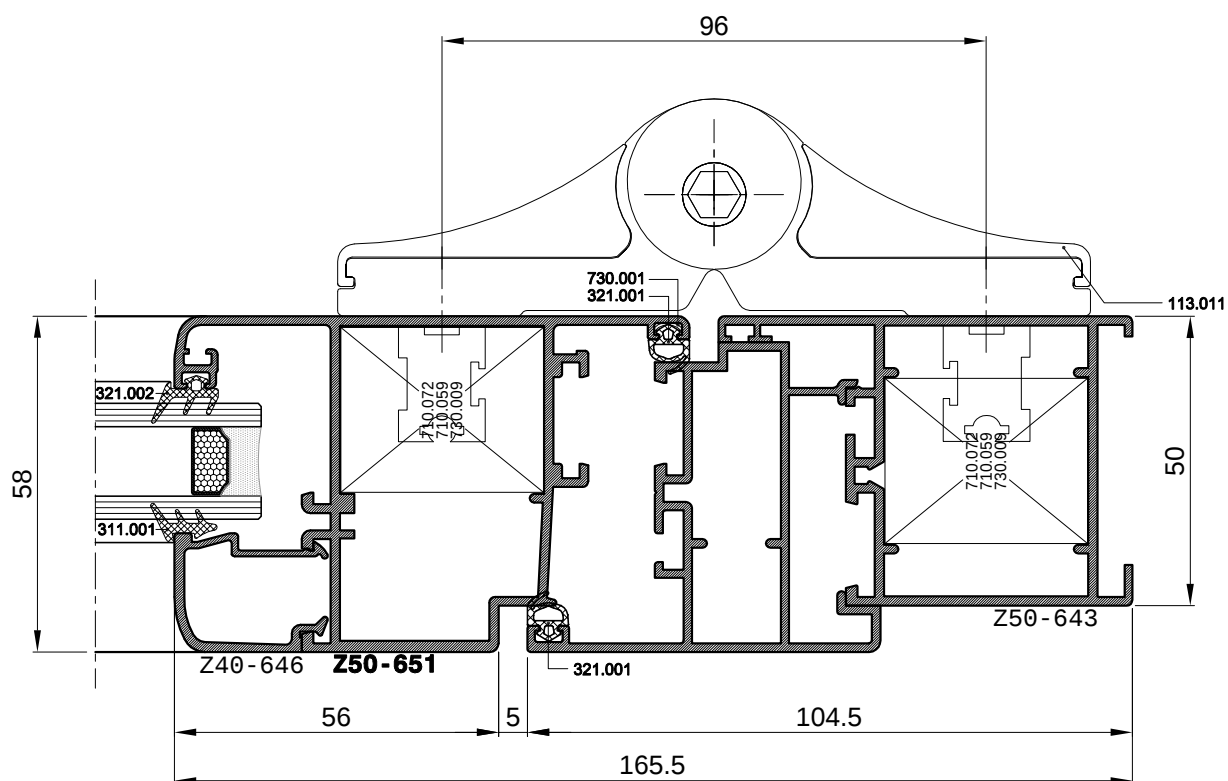
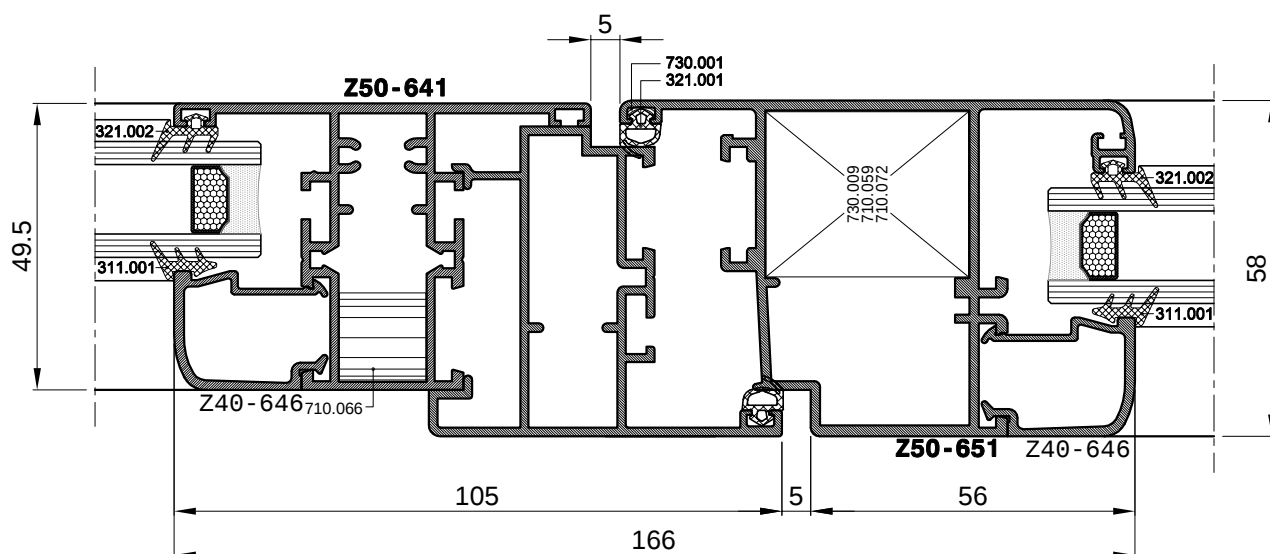
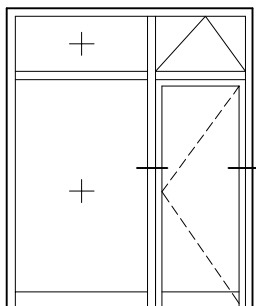
str. 13

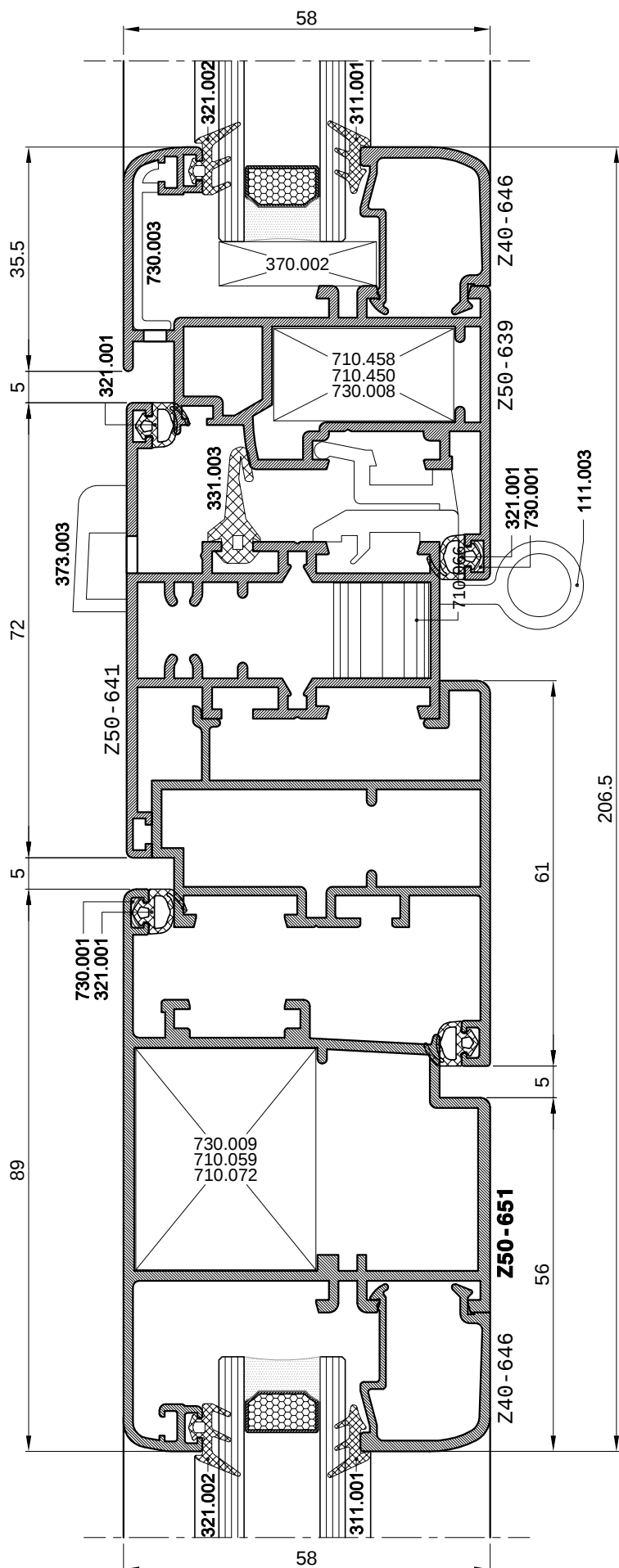
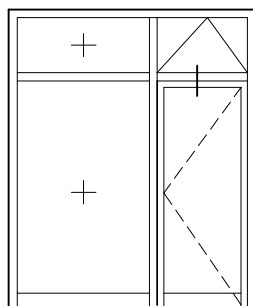


str. 14-15



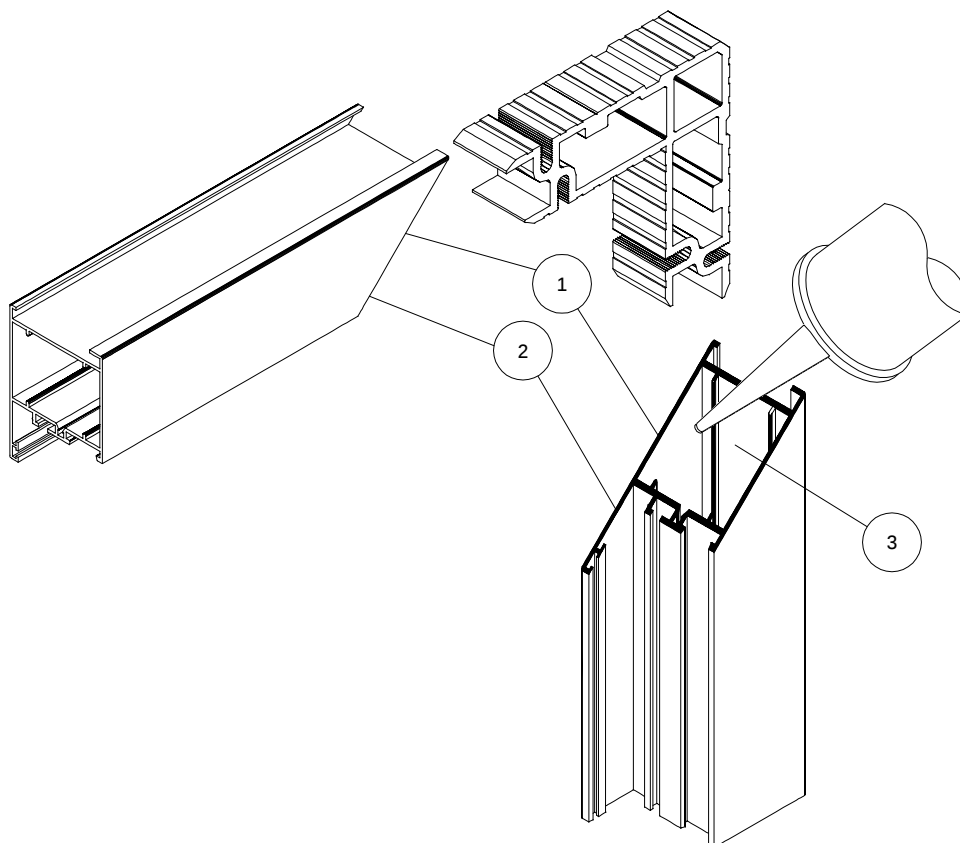






Obrada i montaža

SPAJANJE PROFILA KUTNICIMA POD 90°



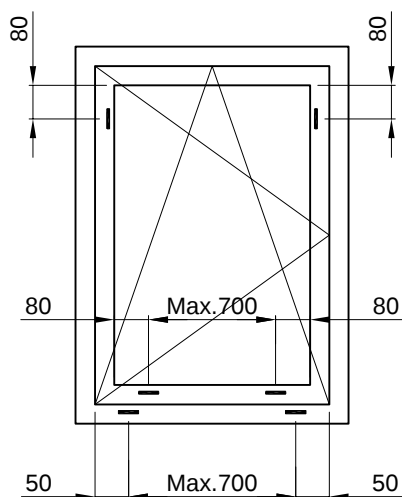
POSTUPAK SPAJANJA PROFILA:

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 komoru za kutnik - po opsegu komore
4. Profile s kutnikom 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/*.

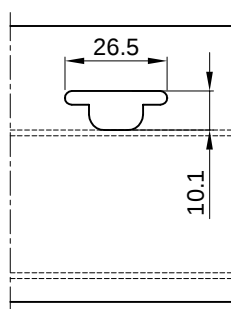
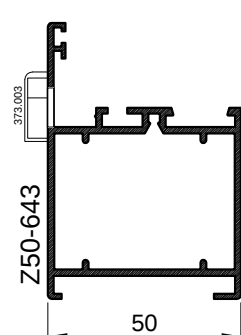
NAPOMENA:

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.



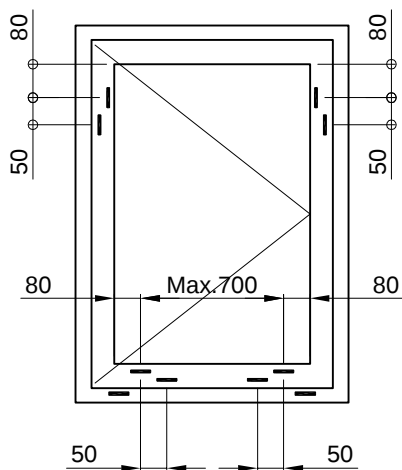
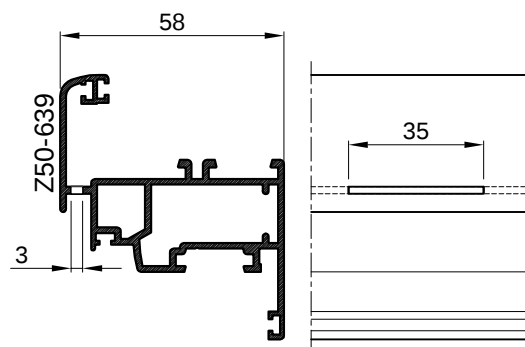
OBRADA NA OKVIRU



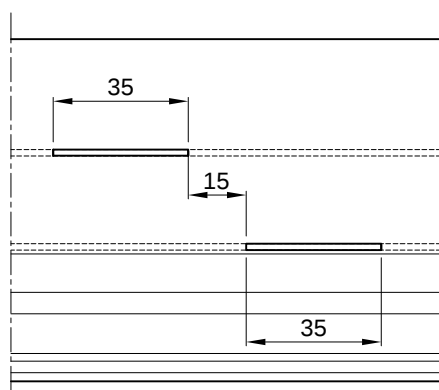
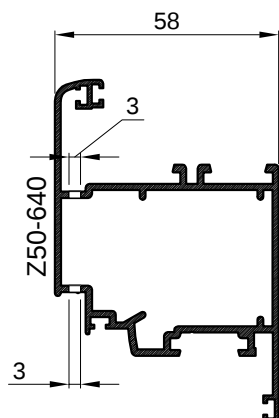
OBRADA NA OKVIRU I KRILU PROZORA

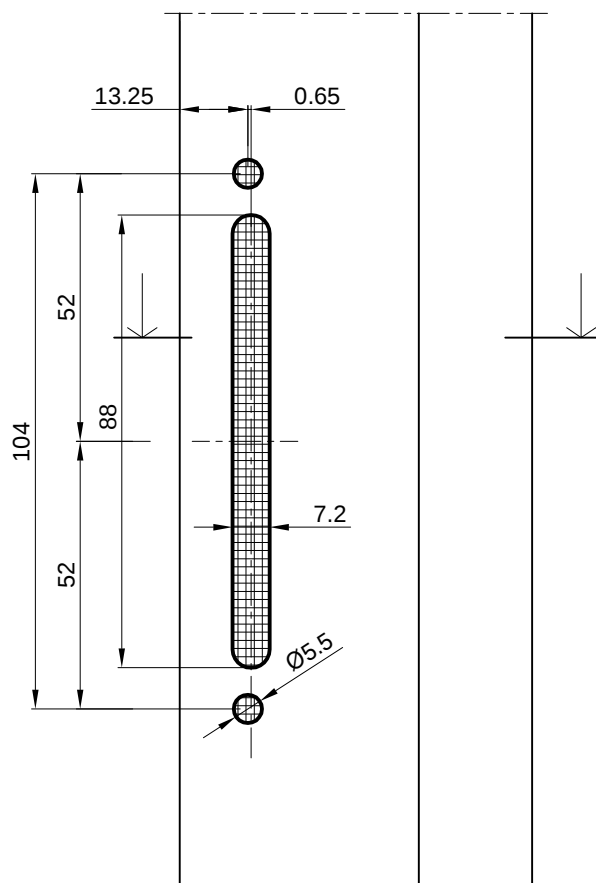
- IZVOD KAPLJEVINA IZ PROZORA
- VENTILIRANJE PROZORA

OBRADA NA KRILU

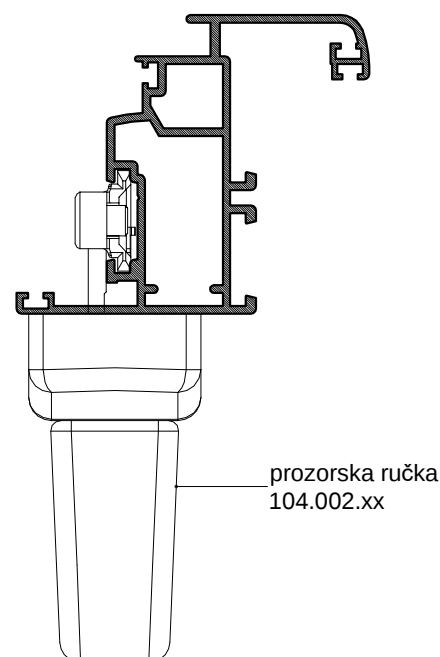
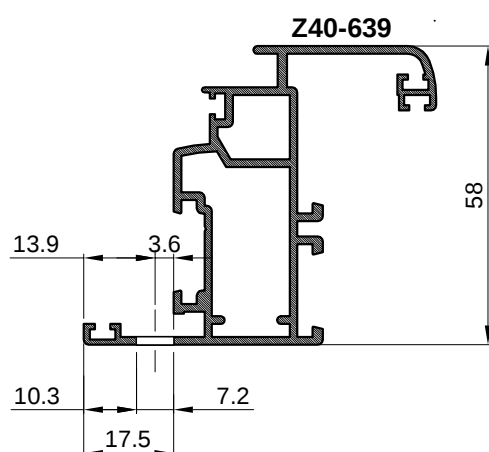


OBRADA NA KRILU





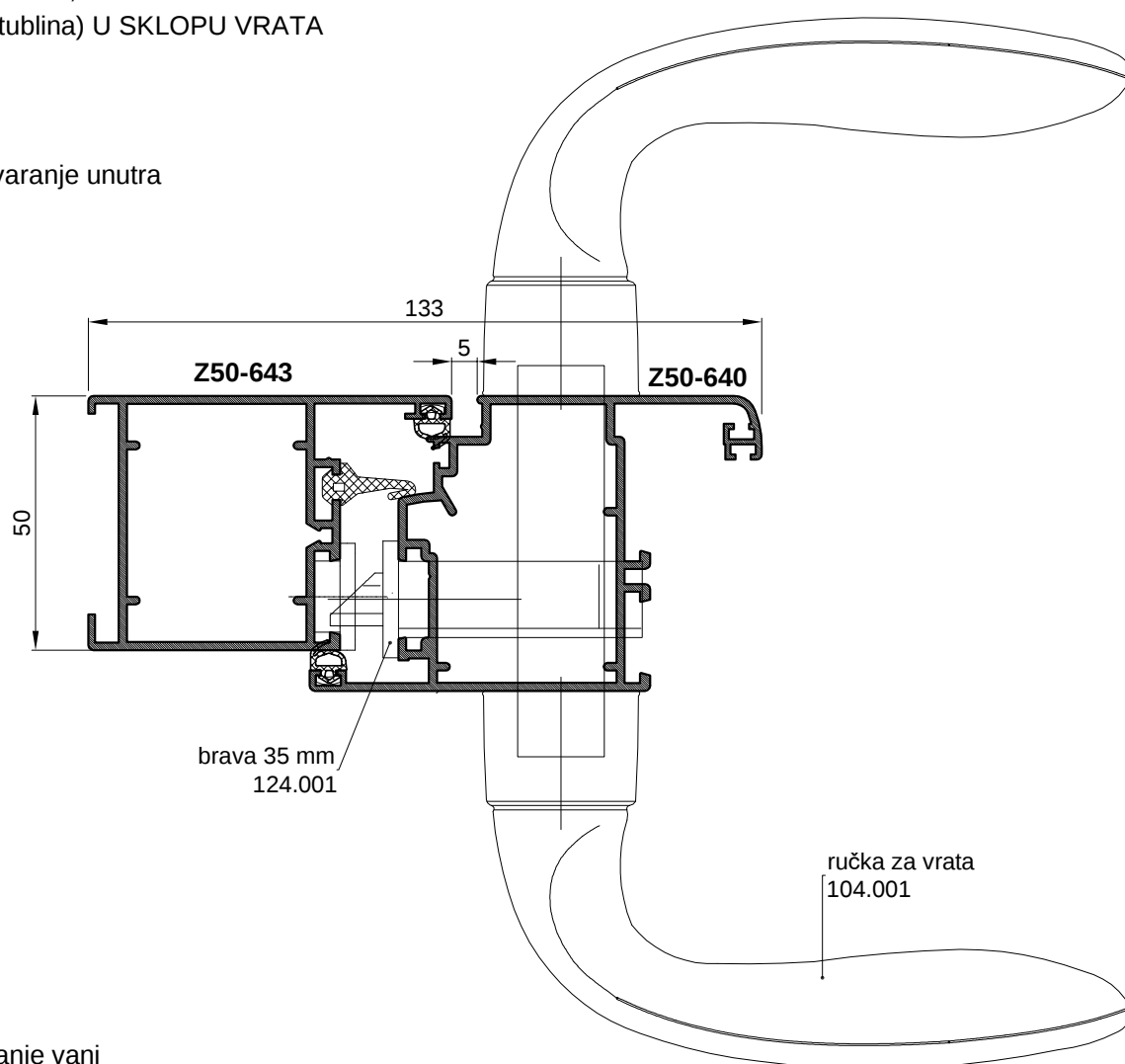
OBRADA PROZORSKOG PROFILA KRILA
ZA UGRADNJU RUČKE



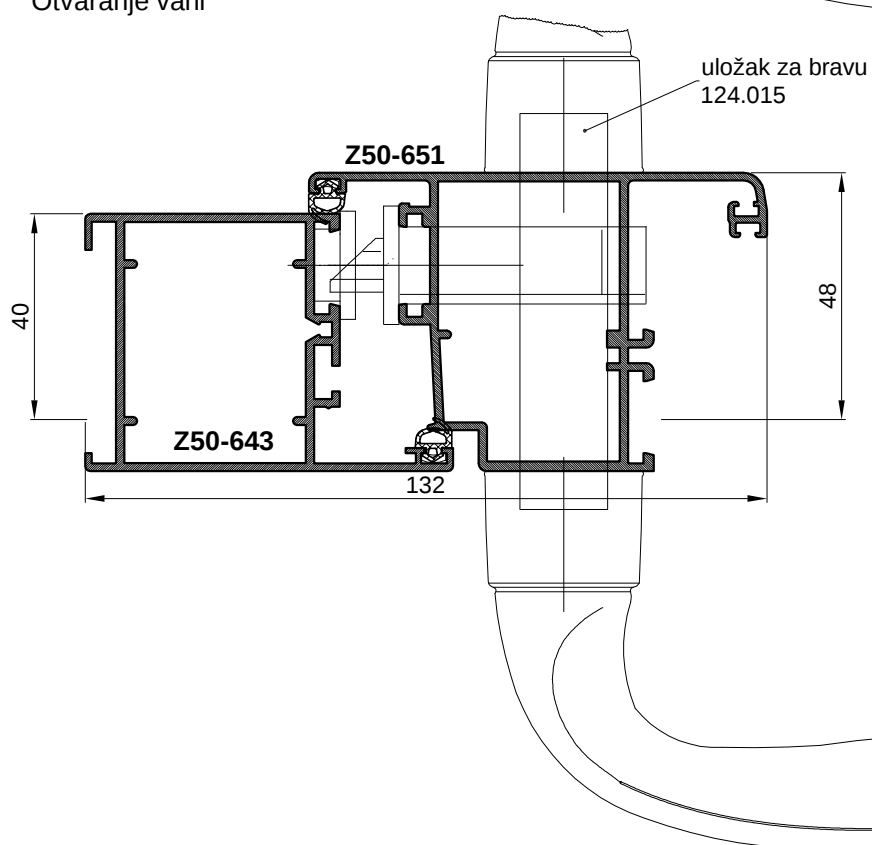
- ZA ZAOKRETNOST I OTKLOPNO-ZAOKRETNOST OTVARANJE
- OBRADA JE ISTA ZA SVE PROFILE KRILA ZA PROZORE

PRIKAZ BRAVE, ULOŠKA BRAVE I
RUČKE (stublina) U SKLOPU VRATA

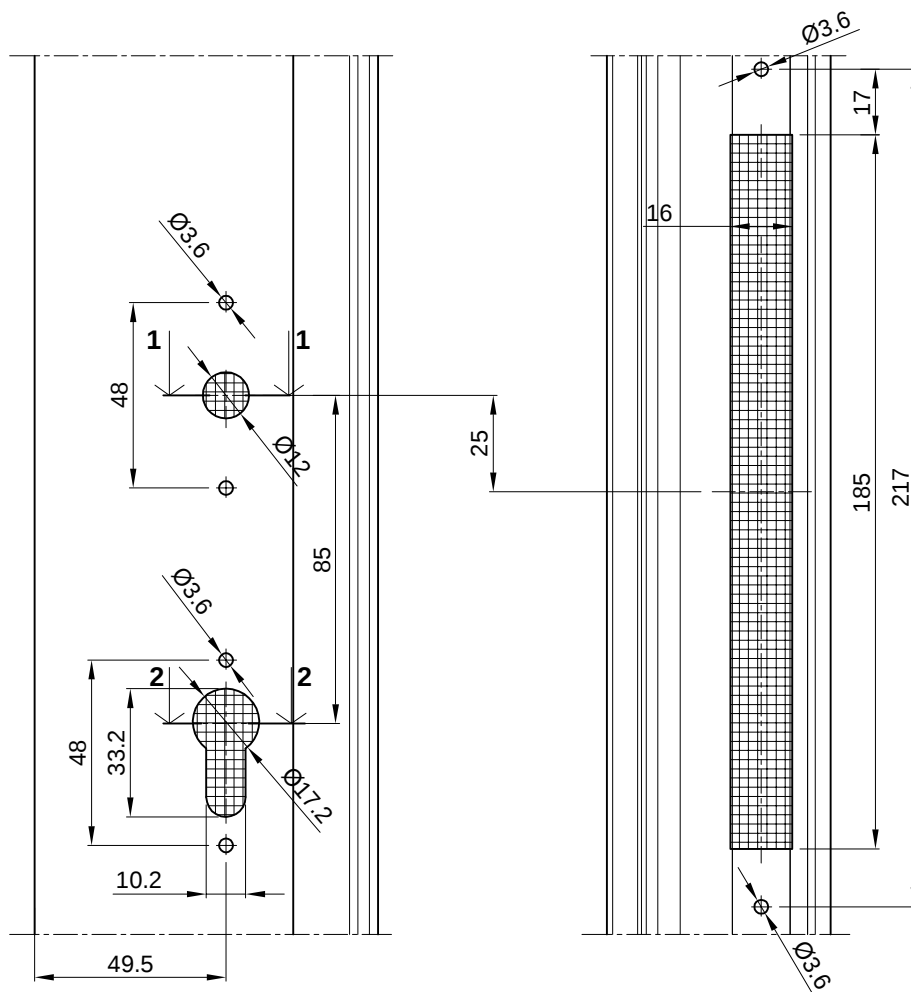
Otvaranje unutra



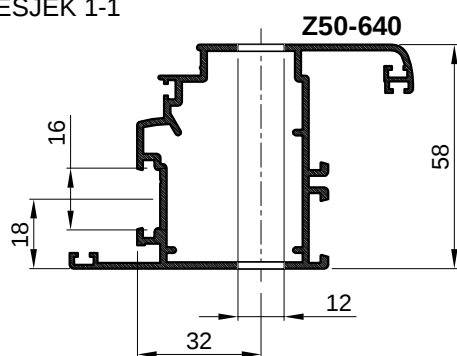
Otvaranje vani



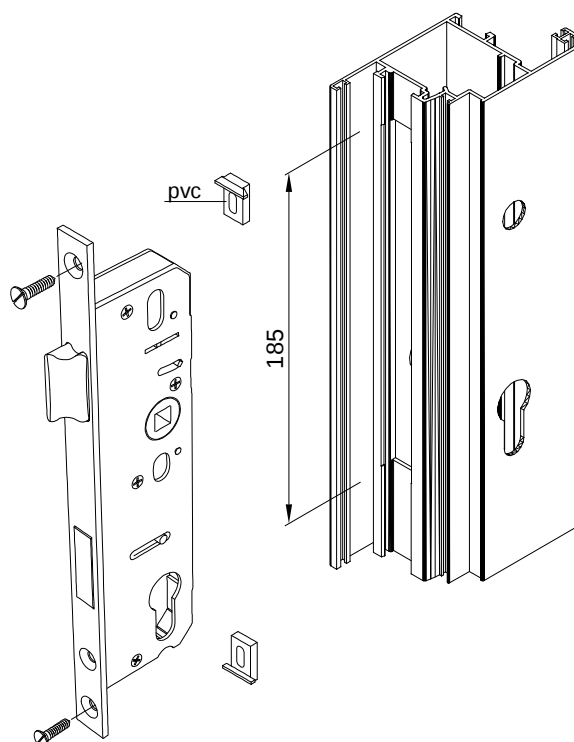
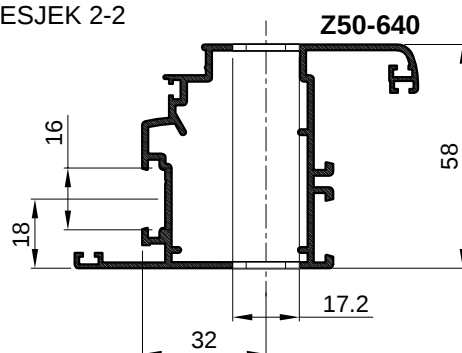
OBRADA PROFILA KRILA VRATA (otvaranje unutra) ZA BRAVU 124.001 I RUČKU 104.001(stublina)



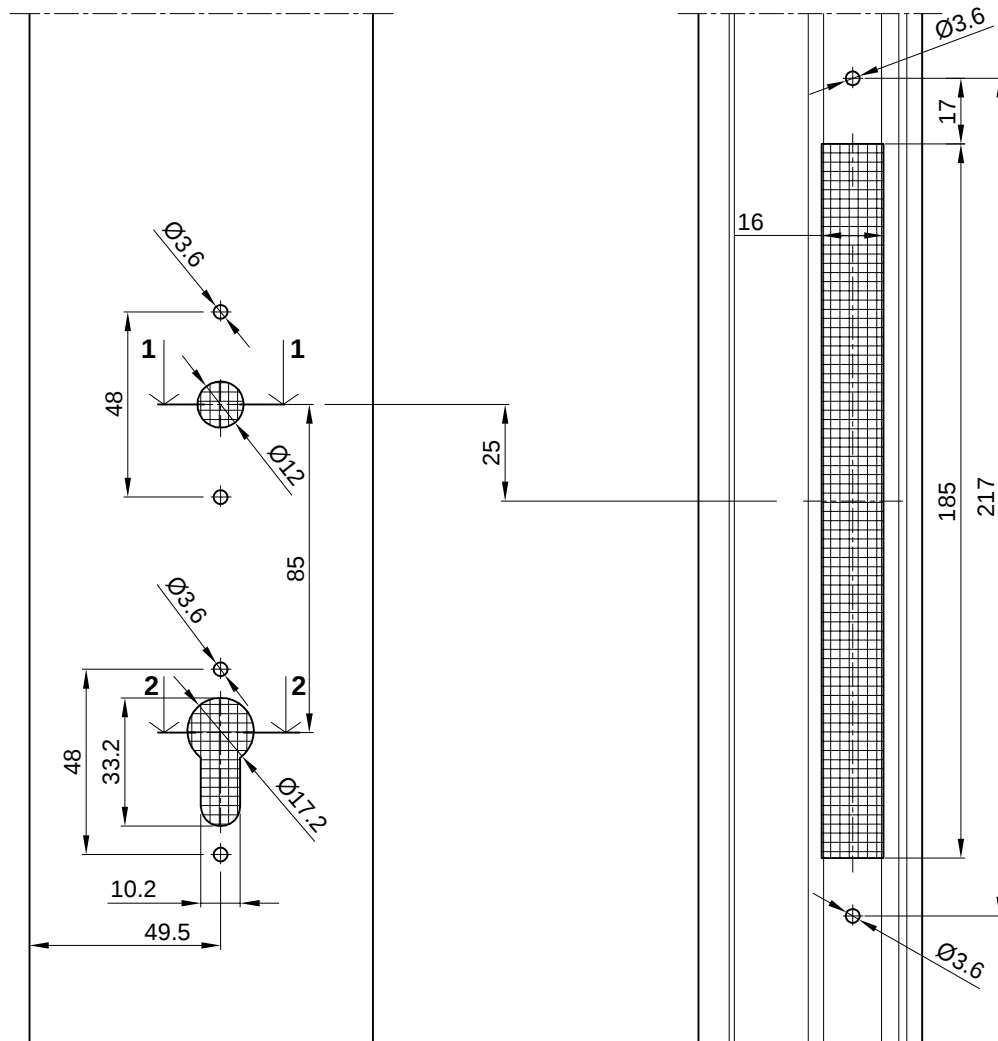
PRESJEK 1-1



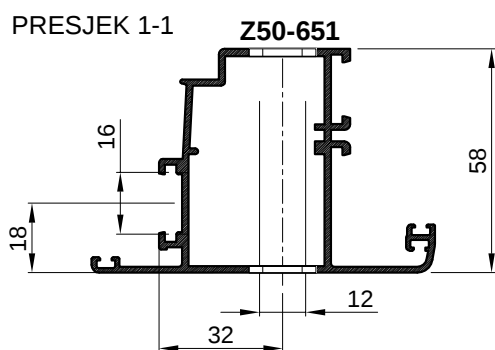
PRESJEK 2-2



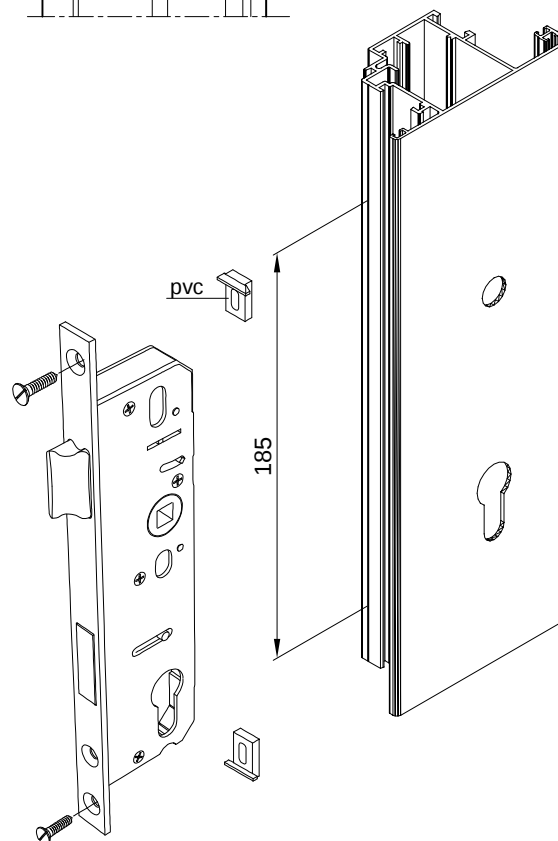
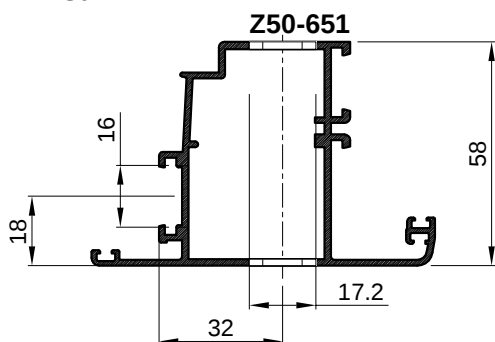
OBRADA PROFILA KRILA VRATA (otvaranje vani) ZA BRAVU 124.001 I RUČKU 104.001(stublina)



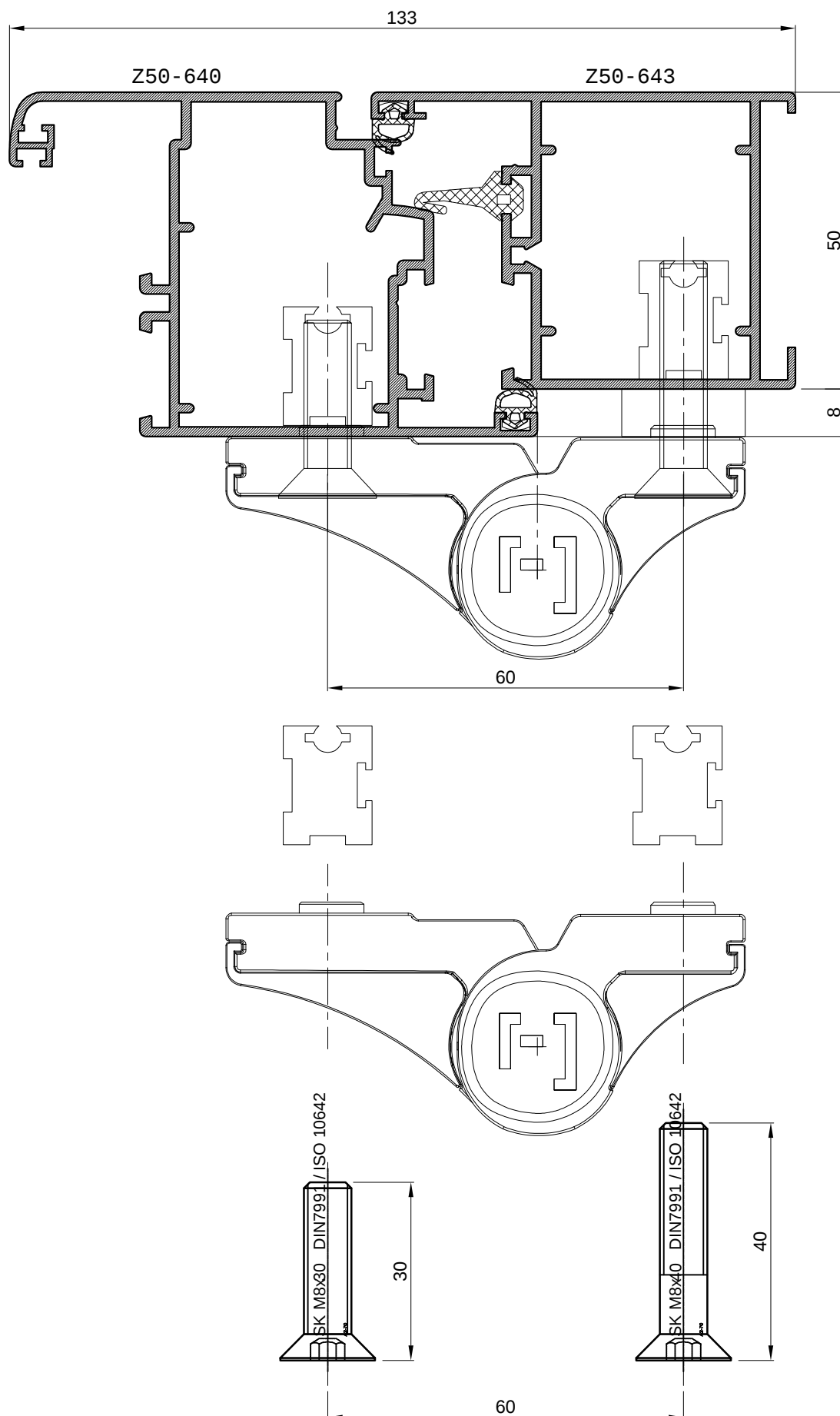
PRESJEK 1-1



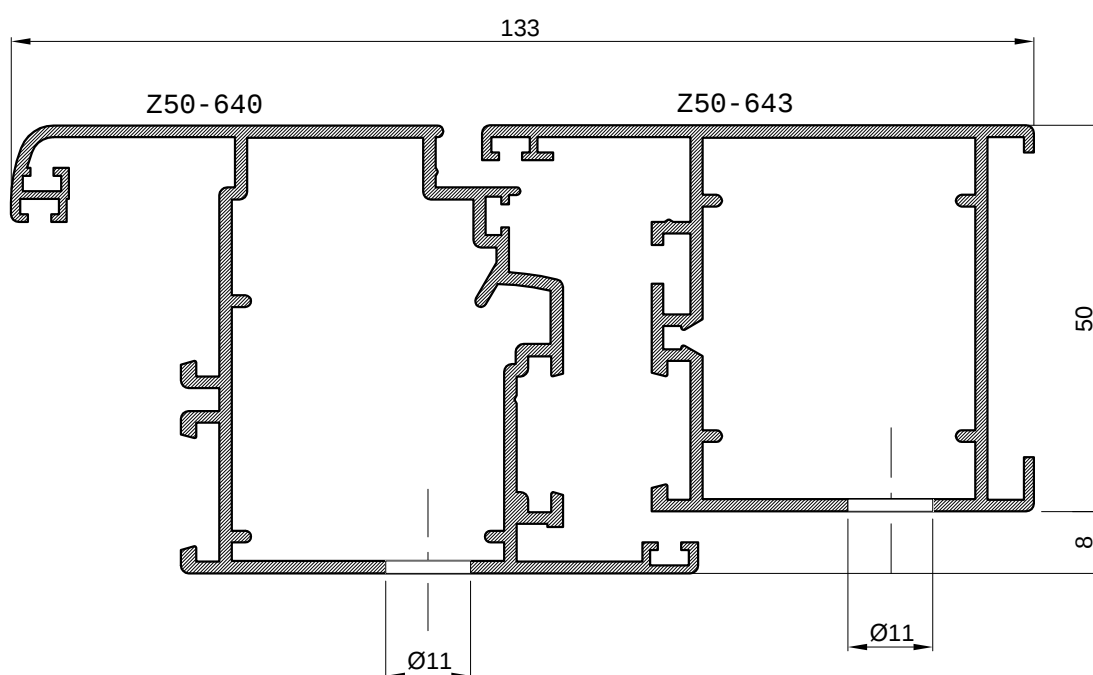
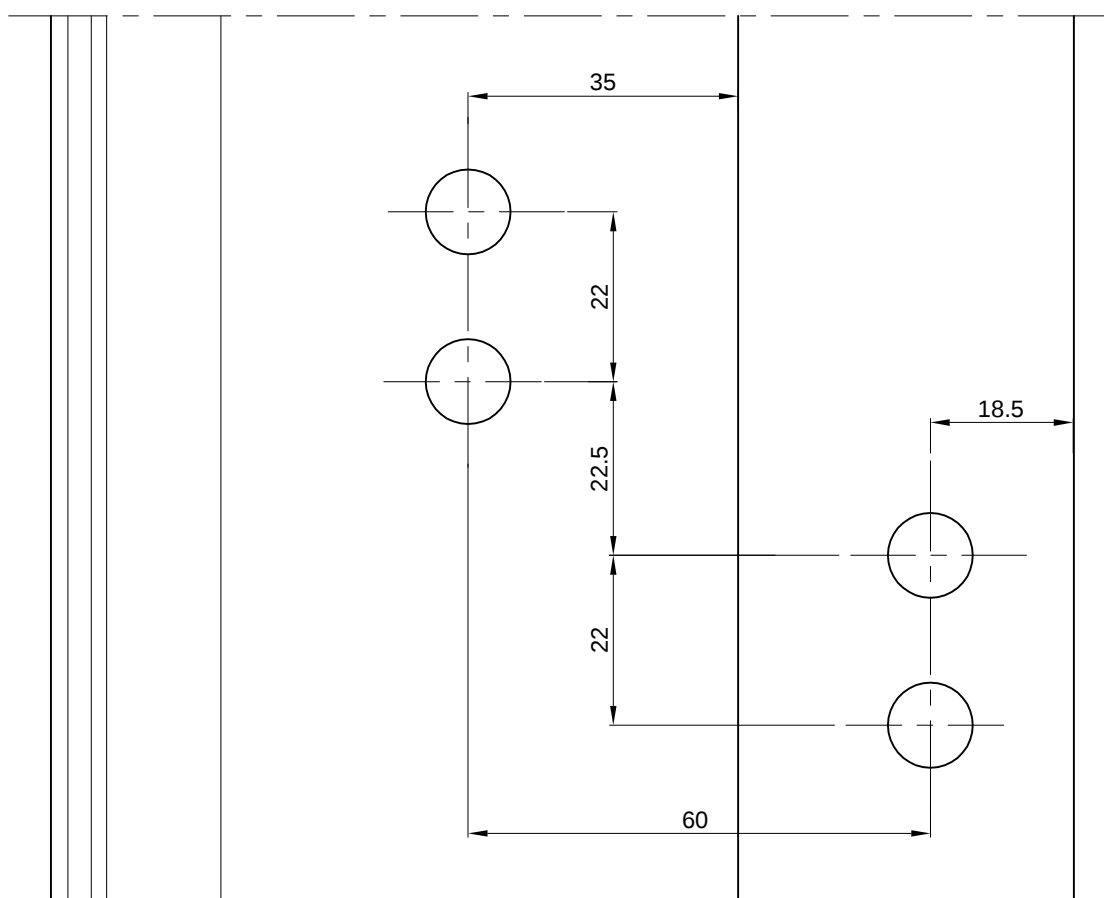
PRESJEK 2-2



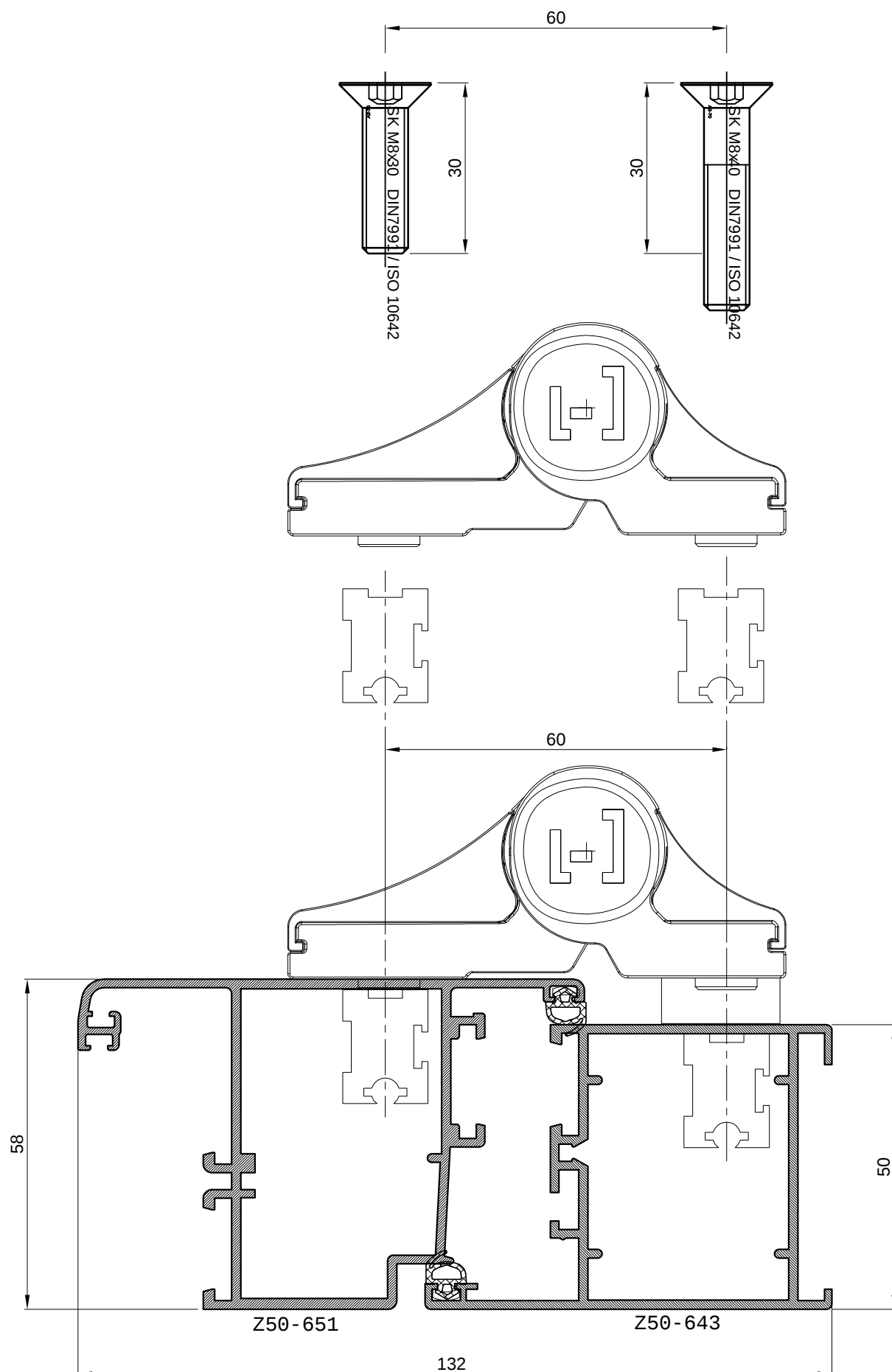
SET USADNIH BAGLAMA- OSNO 60 mm-OTVARANJE UNUTRA



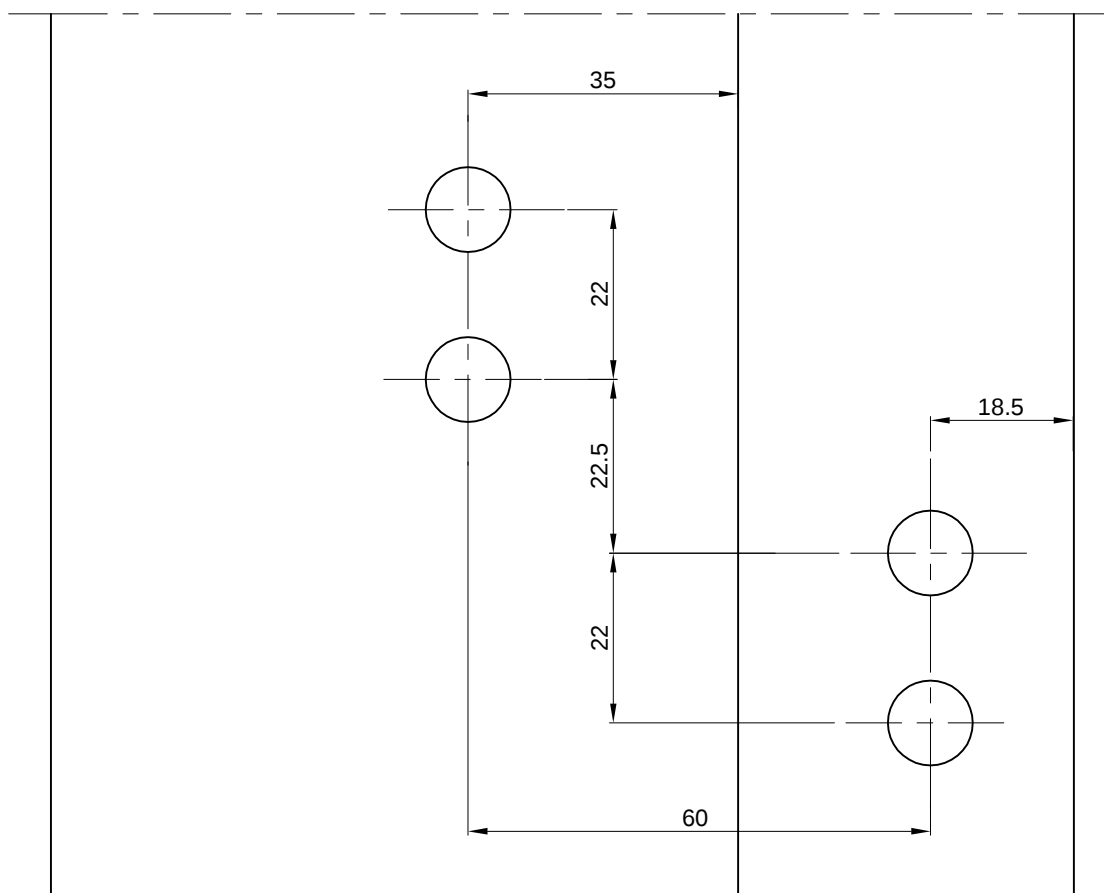
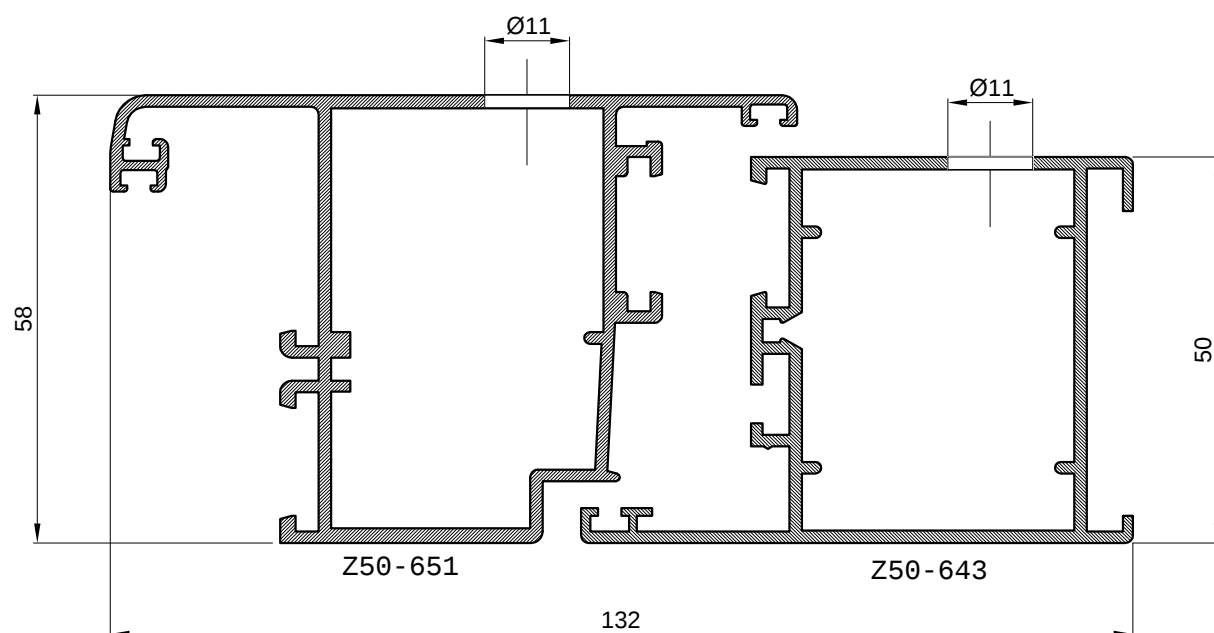
OBRADA ZA SET USADNIH BAGLAMA- OSNO 60 mm-OTVARANJE UNUTRA



SET USADNIH BAGLAMA- OSNO 60 mm-OTVARANJE VANI



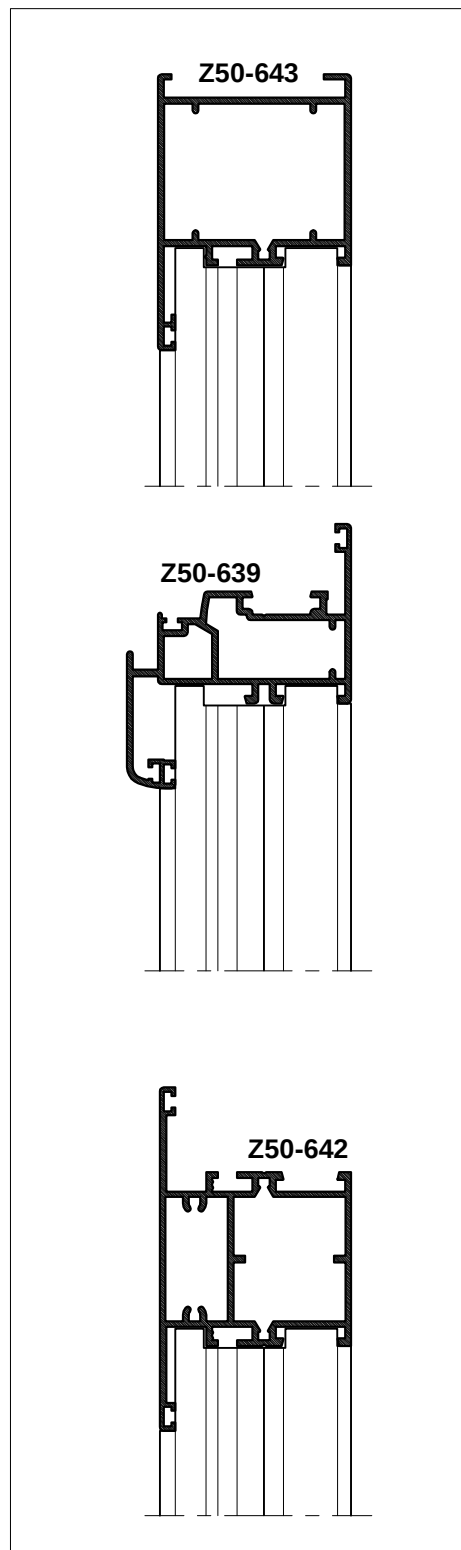
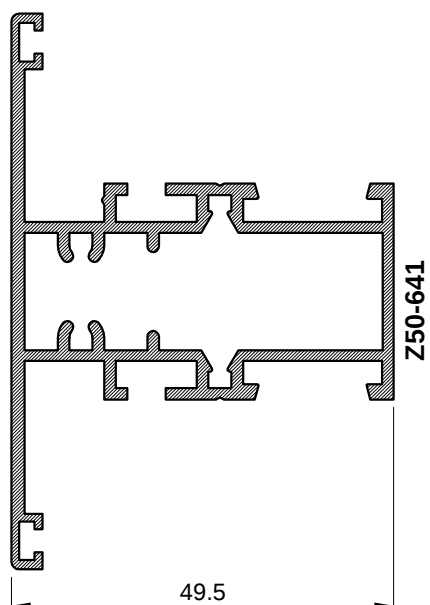
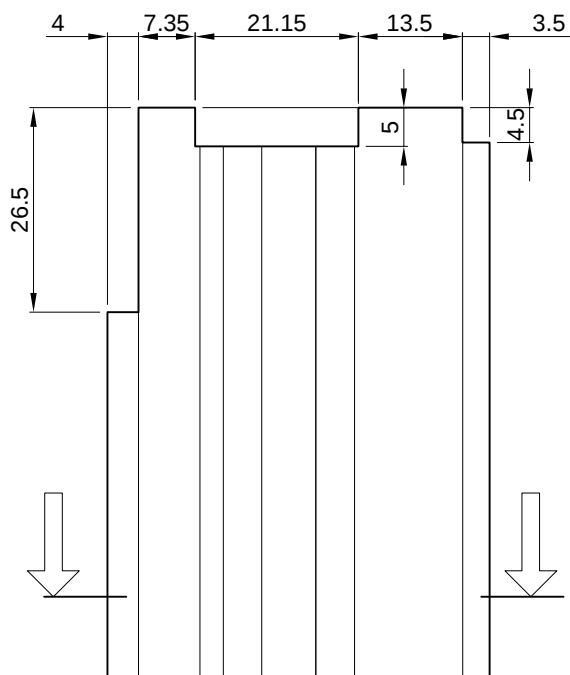
OBRADA ZA SET USADNIH BAGLAMA- OSNO 60 mm-OTVARANJE VANI



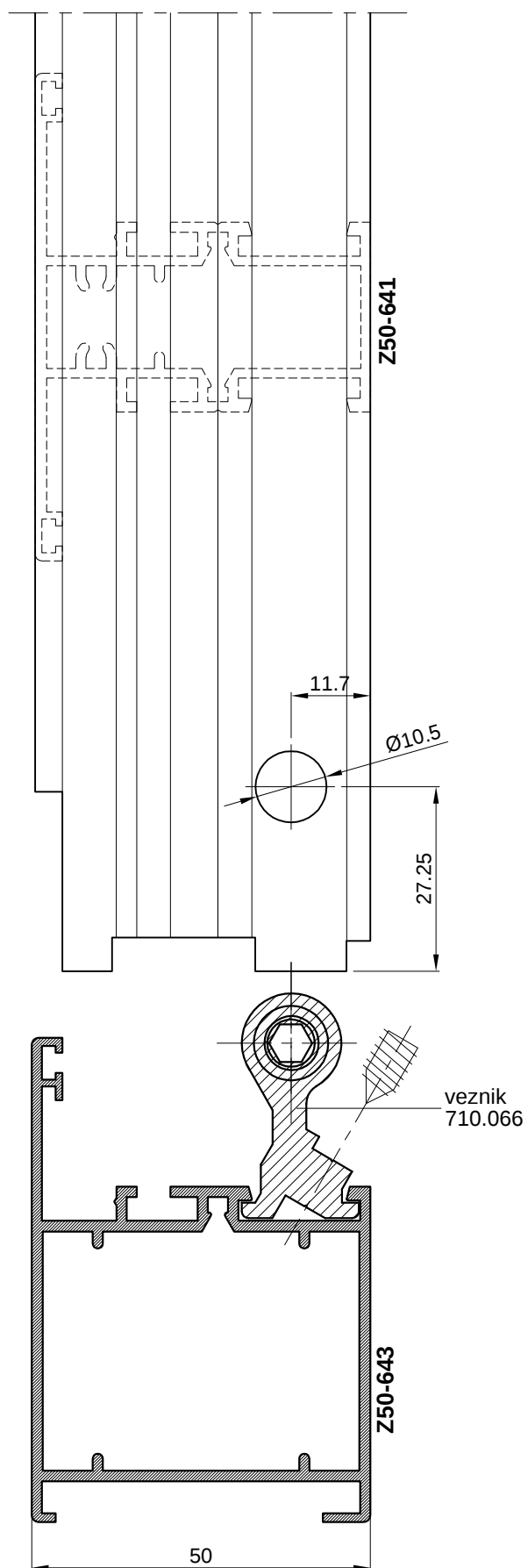
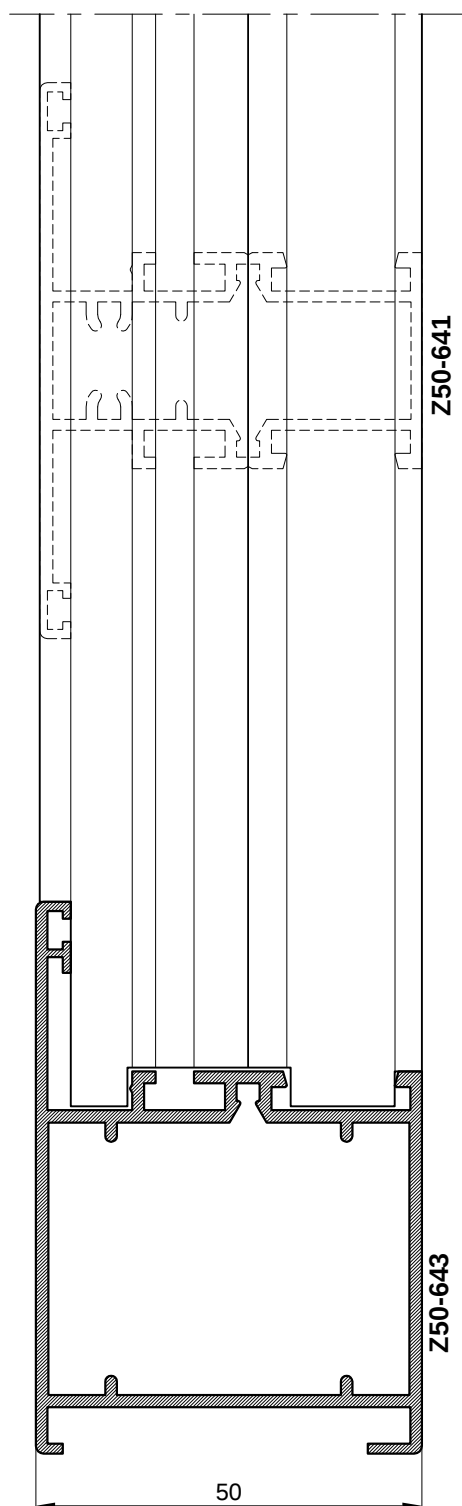
-Obradu profila raditi snopom glodala
za seriju Z50- art. 364.014

OBRADA PROFILA PREČKE Z50-641
Z50-642
Z50-652
Z50-658
Z50-660
Z50-653
Z50-644

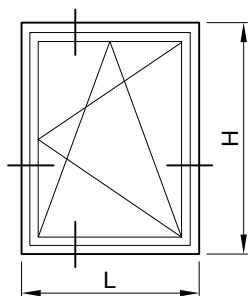
PREMA PROFILIMA KRILA I RAMA I PREČKE



SPAJANJE PROFILA PREČKE VEZNIKOM 710.066



Rezne liste

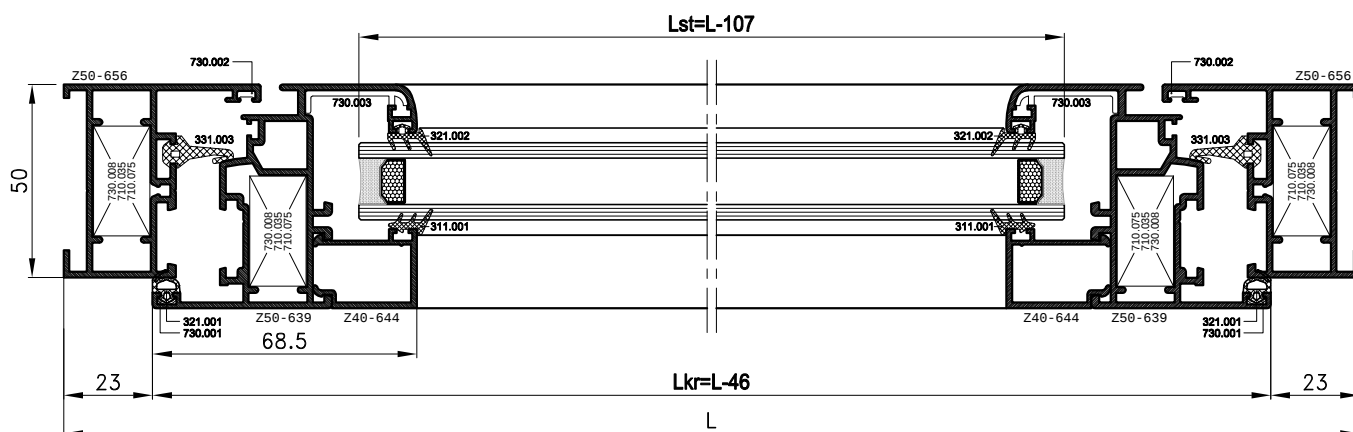
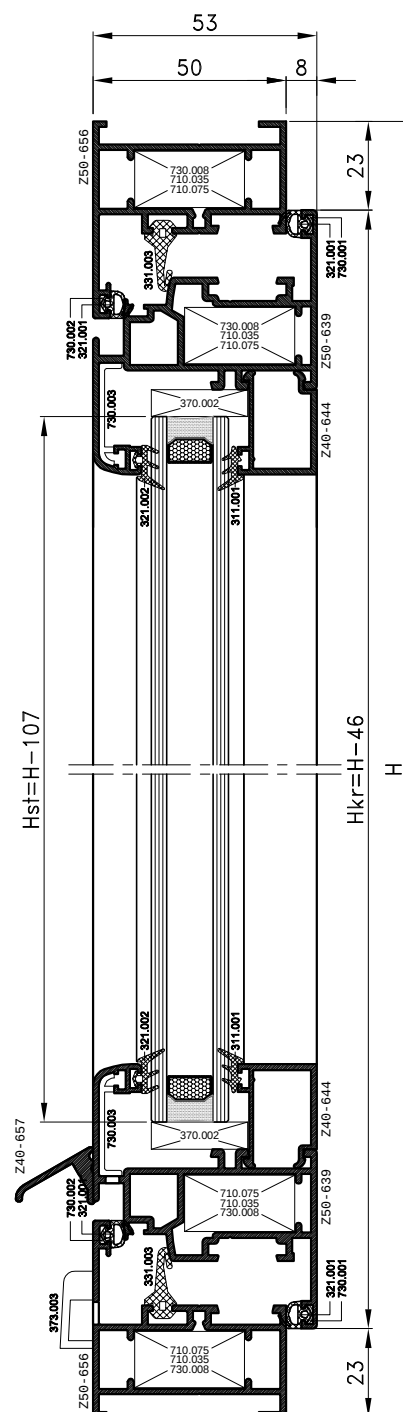


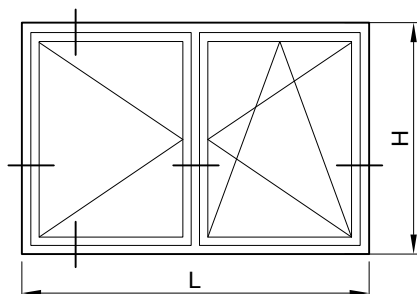
PROFILI		kom	mjera	pilanje
Z50-656	vodoravnica okvira	2	L	45-45
Z50-656	okomica okvira	2	H	45-45
Z50-639	vodoravnica krila	2	Lkr=L-46	45-45
Z50-639	okomica krila	2	Hkr=H-46	45-45
Z40-644	vodoravna lajsna	2	Lkr-93	90-90
Z40-644	okomita lajsna	2	Hkr-137	90-90
NC-1459	klizač			90-90
Z40-657	okapnica			90-90

OKOVI		kom
730.008	središnji kutnik	8
730.003	pomoćni kutnik	4
730.001	pomoćni kutnik	4
730.002	pomoćni kutnik	4
134.000.XX	dry-kip mehanizam	1
373.003	maska za drenažni otvor	2

BRTVE		kom	mjera
331.003	srednja brtva		2L+2H
321.001	brtva na spoju profila		3L+2H
321.002	brtva prema staklu-vani		2L+2H
311.001	brtva prema staklu-unutra		2L+2H
366.001	kutni umetak	4	

STAKLO	kom	mjera
20 mm	1	Lkr-107 x Hkr-107



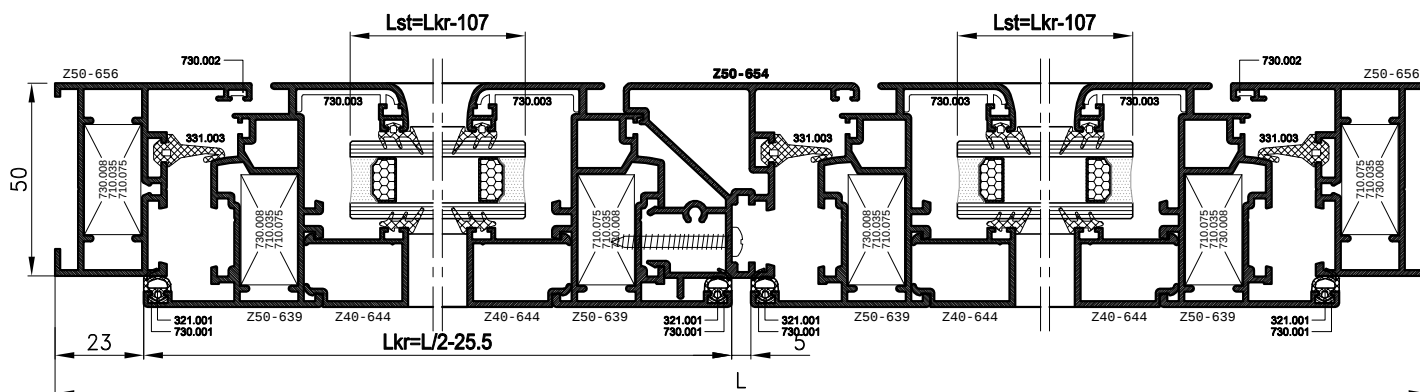
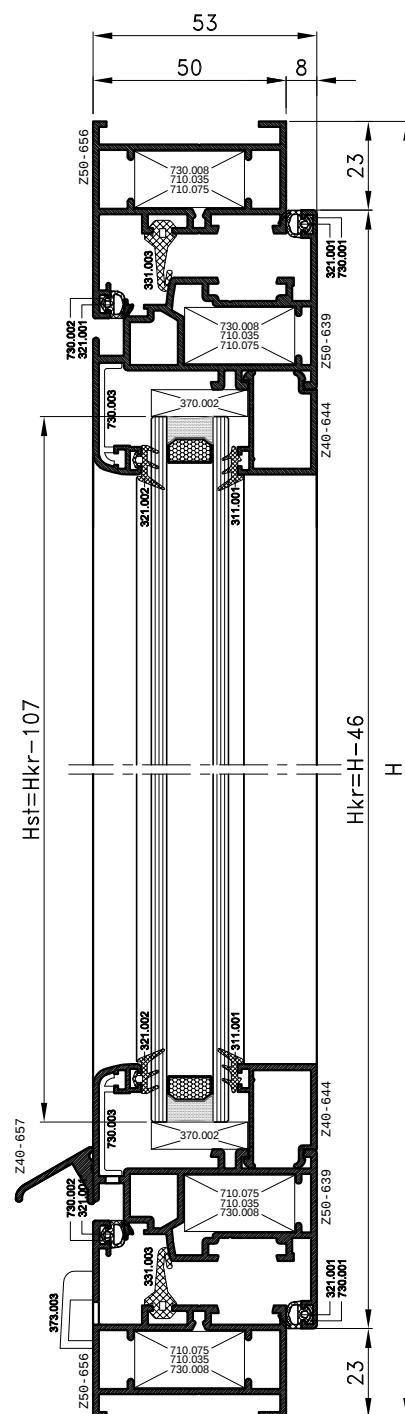


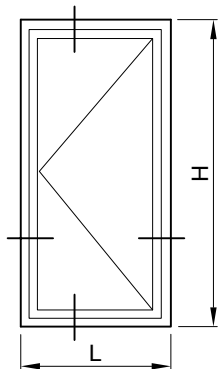
PROFILI		kom	mjera	pilanje
Z50-656	vodoravnica okvira	2	L	45-45
Z50-656	okomica okvira	2	H	45-45
Z50-639	vodoravnica krila	4	Lkr=L/2-25.5	45-45
Z50-639	okomica krila	4	Hkr=H-46	45-45
Z40-654	kombatuta	1	Hkr-68	90-90
Z40-644	vodoravna lajsna	4	Lkr-93	90-90
Z40-644	okomita lajsna	4	Hkr-137	90-90
NC-1459	klizač			90-90
Z40-657	okapnica	2		90-90

OKOVI		kom
730.008	središnji kutnik	12
730.003	pomoćni kutnik	8
730.001	pomoćni kutnik rama	4
730.002	pomoćni kutnik krila	8
143.002	zapinjač za pasivno krilo	2
143.003	jednostrani prihvati zapinjača	2
111.001.XX	šarka	2
134.000.XX	dry kip	1
373.003	maska za drenažni otvor	2
364.014	umetak za profil Z40-652	2

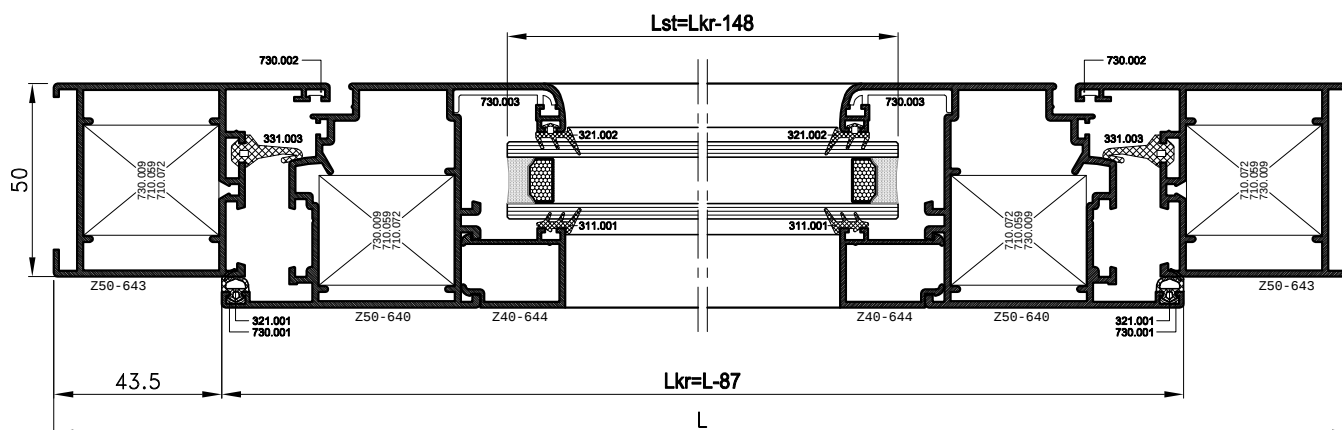
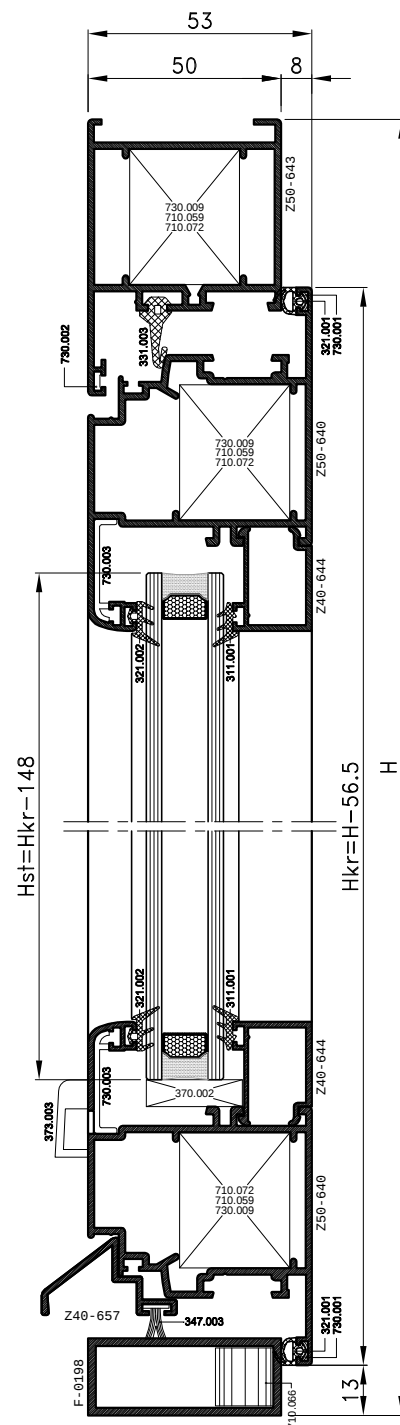
BRTVE	kom	mjera
331.003	srednja brtva	2L+3H
321.001	brtva na spoju profila	2L+4H
321.002	brtva prema staklu-vani	2L+4H
311.001	brtva prema staklu-unutra	2L+4H
366.001	kutni umetak	4

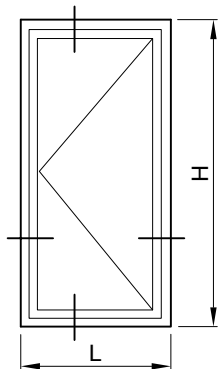
STAKLO	kom	mjera
20 mm	2	Lkr-107 x Hkr-107



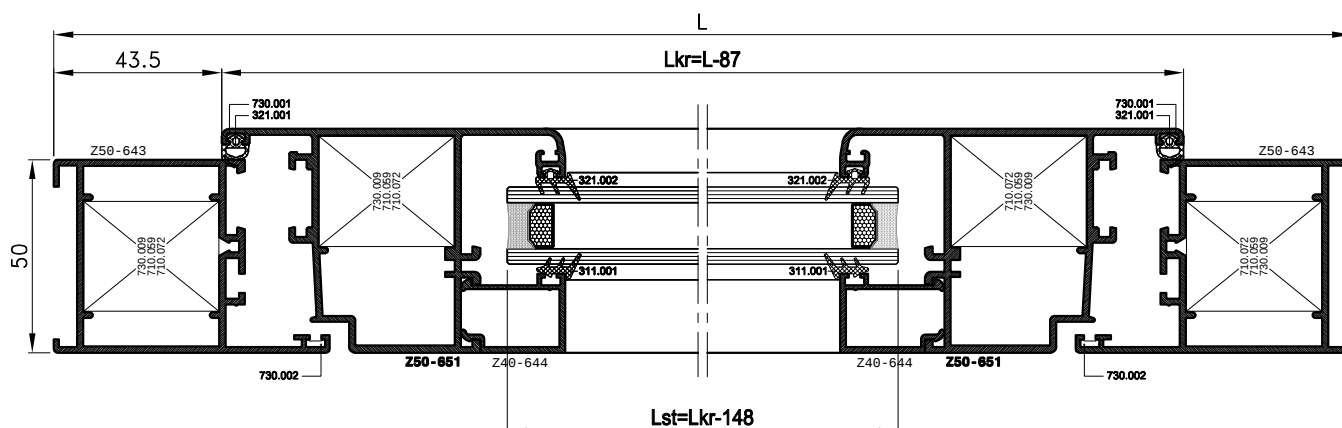
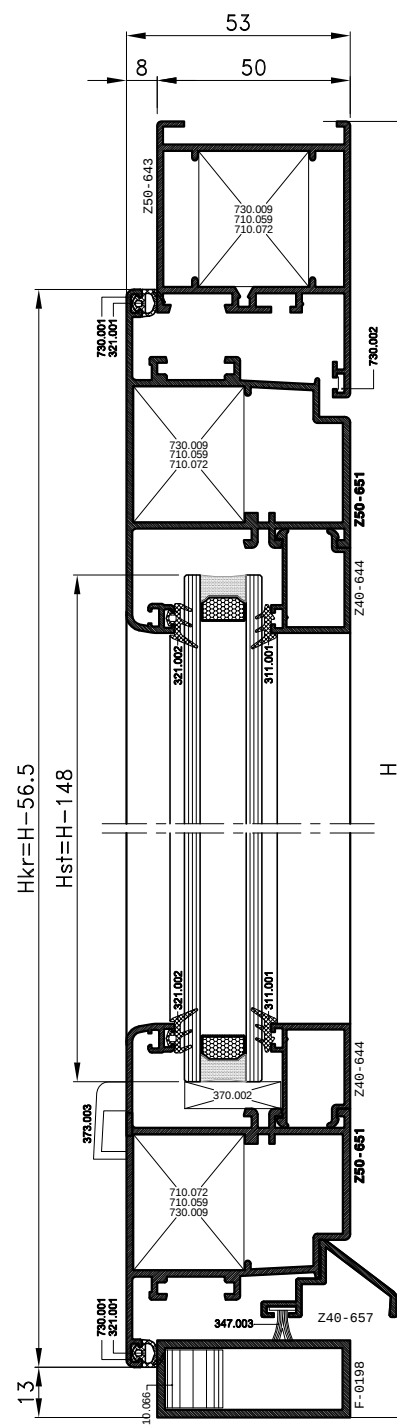


PROFILI		kom	mjera	pilanje
Z50-643	vodoravnica okvira	1	L	45-45
Z50-643	okomica okvira	2	H	45-45
Z50-640	vodoravnica krila	2	Lkr=L-87	45-45
Z50-640	okomica krila	2	Hkr=H-56.5	45-45
F-0198	prag 50x20 mm	1	L-89	90-90
Z40-644	vodoravna lajsna	2	Lkr-134	90-90
Z40-644	okomita lajsna	2	Hkr-178	90-90
P45-648	okapnica	1		90-90
OKOVI		kom		
730.009	središnji kutnik	6		
730.010	pomoćni kutnik	4		
730.001	pomoćni kutnik	4		
730.002	pomoćni kutnik	2		
113.006.XX	šarka za vrata 60 mm	2		
124.001	brava za vrata	1		
124.003	šild za vrata	1		
104.001.XX	ručka za vrata	1		
124.014	uložak za bravu-75 mm	1		
710.066	veznik	2		
BRTVE		kom	mjera	
331.003	srednja brtva		L+2H	
321.001	brtva u krilu prema ramu		2L+2H	
321.002	brtva prema staklu-vani		2L+2H	
311.001	brtva prema staklu-unutra		2L+2H	
366.001	kutni umetak	2		
347.003	četkasta brtva 7x9		L	
STAKLO		kom	mjera	
20 mm		1	Lkr-148 x Hkr-148	





PROFILI		kom	mjera	pilanje
Z50-643	vodoravnica okvira	1	L	45-45
Z50-643	okomica okvira	2	H	45-45
Z50-651	vodoravnica krila	2	Lkr=L-87	45-45
Z50-651	okomica krila	2	Hkr=H-56.5	45-45
F-0198	prag 50x20 mm	1	L-89	90-90
Z40-644	vodoravna lajsna	2	Lkr-134	90-90
Z40-644	okomita lajsna	2	Hkr-178	90-90
P45-648	okapnica	1		90-90
OKOVI		kom		
730.009	središnji kutnik	6		
730.001	pomoćni kutnik	4		
730.002	pomoćni kutnik	2		
113.006.XX	šarka za vrata 60 mm	2		
124.001	brava za vrata	1		
124.003	šild za vrata	1		
104.001.XX	ručka za vrata	1		
124.014	uložak za bravu-75 mm	1		
710.066	veznik	2		
BRTVE		kom	mjera	
321.001	brtva u krilu prema ramu		4L+3H	
321.002	brtva prema staklu-vani		2L+2H	
311.001	brtva prema staklu-unutra		2L+2H	
347.003	četkasta brtva 7x9		L	
STAKLO		kom	mjera	
20 mm		1	Lkr-148 x Hkr-148	



FEAL

Z 50

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