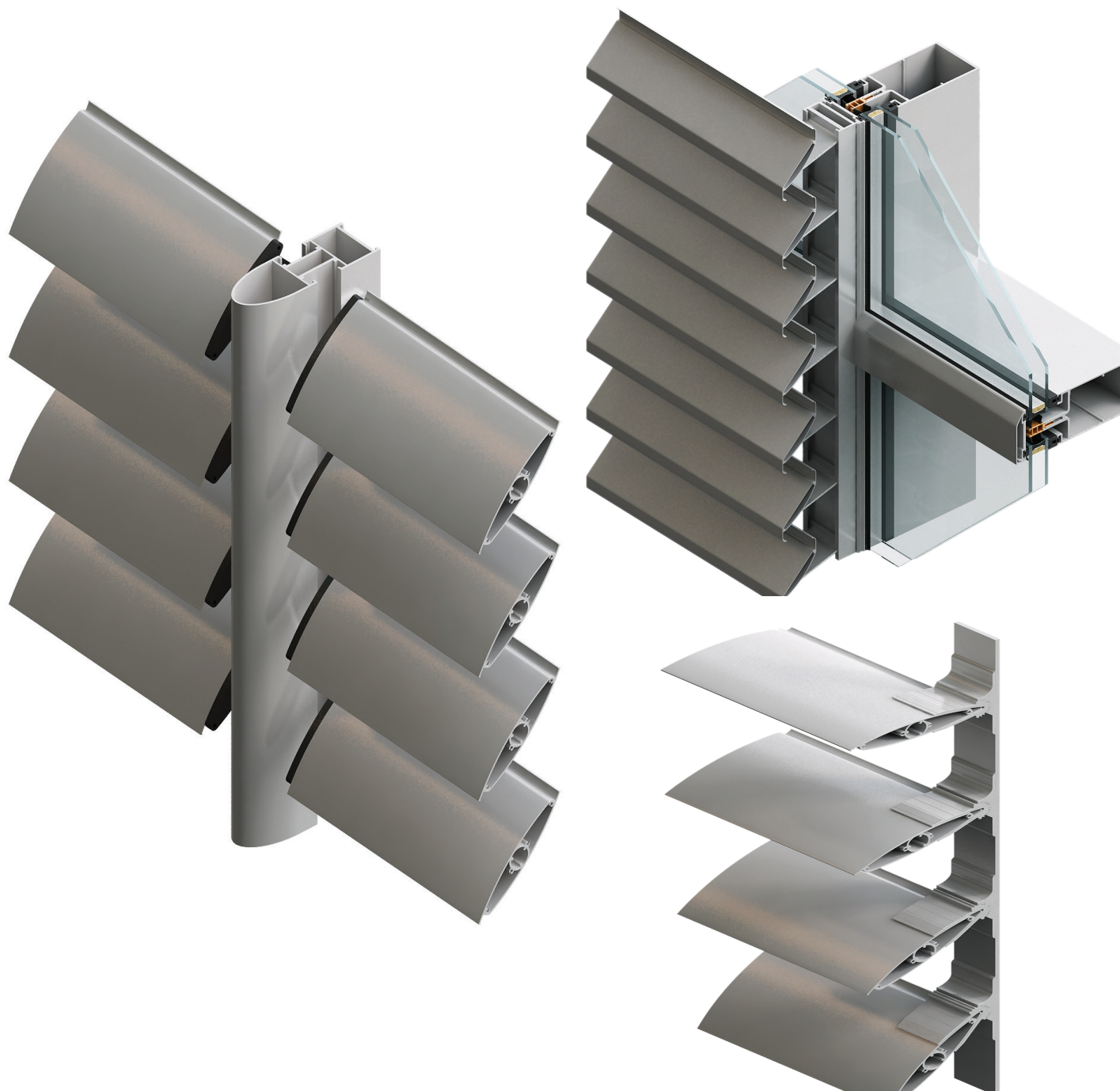


FEAL



BRISOLEJI

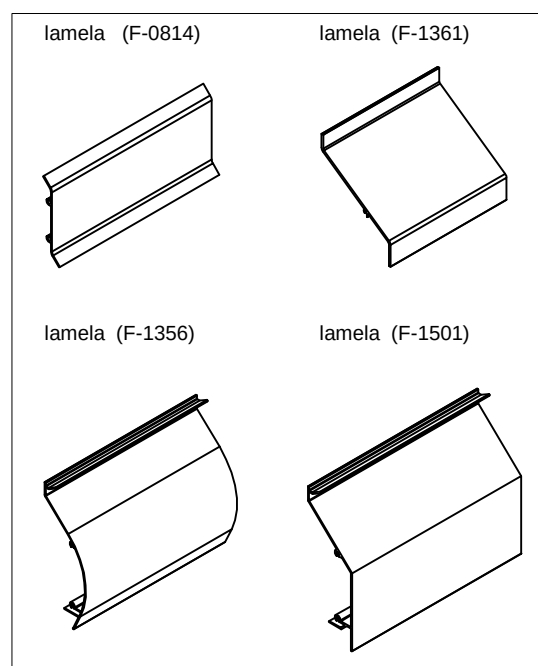
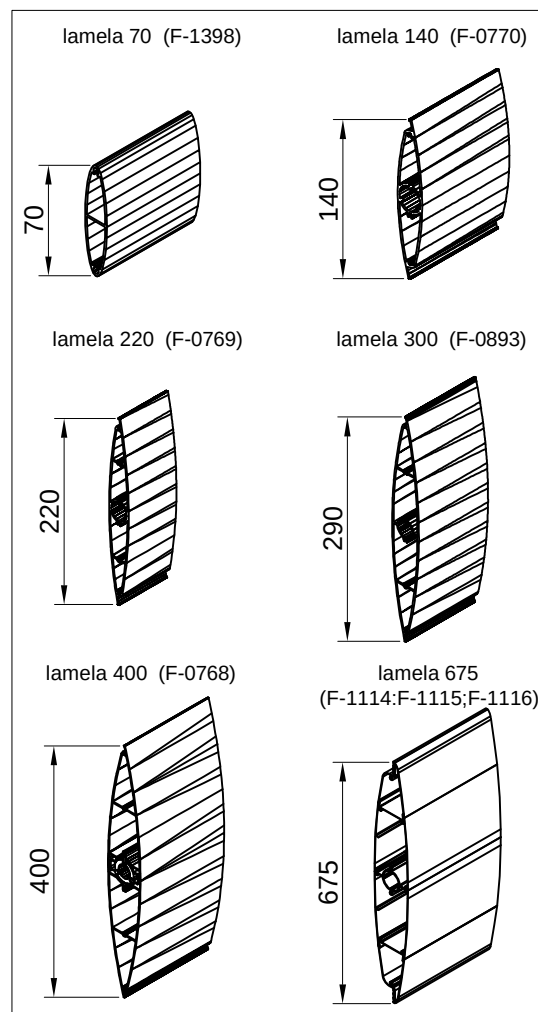
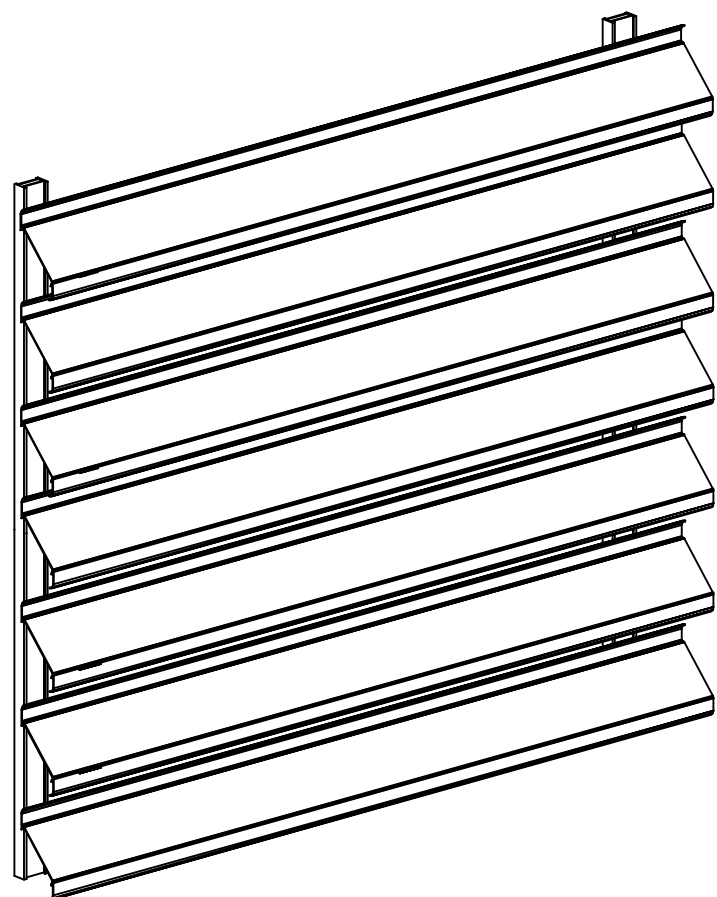
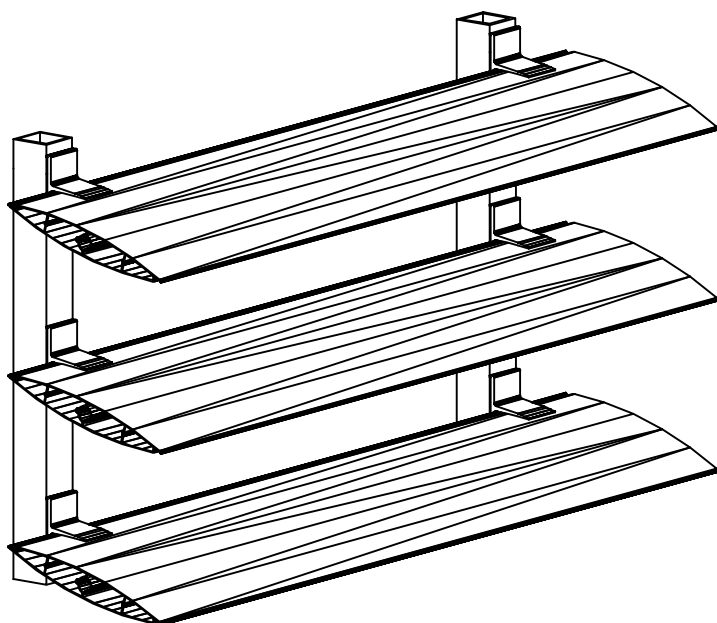
FIKSNI BRISOLEJI

SADRŽAJ - KAZALO

<u>00</u>	<u>Sadržaj</u>	<u>602.00.000-001</u>
<u>01</u>	<u>Značajke sistema</u>	<u>602.01.000-003</u>
<u>02</u>	<u>Ispitivanja i certifikati</u>	<u>602.02.000-012</u>
<u>03</u>	<u>Profili</u>	<u>602.03.000-022</u>
<u>04</u>	<u>Vezni elementi</u>	<u>602.04.000-006</u>
<u>08</u>	<u>Dodatak</u>	<u>602.08.000-005</u>
<u>10</u>	<u>Presjeci</u>	<u>602.10.000-033</u>
<u>11</u>	<u>Obrada i montaža</u>	<u>602.11.000-043</u>

Značajke sistema

FIKSNI BRISOLEJI



OPIS SISTEMA FIKSNI BRISOLEJI

Moderna arhitektonska rješenja za urede, škole, bolnice i mnoge druge vrste javnih objekata često sadrže i velike ostakljene površine koje pružaju veće količine dnevne svjetlosti, osjećaj prostranosti te povećavaju udobnost i blagostanje ljudi.

Ipak, kontroliranje unutarnje temperature ostakljenih objekata može biti komplicirano pitanje. Razlog tome je što, iako Sunce nudi prirodnu svjetlost i toplinu za građevine (smanjujući potrošnju energije i emisije plinova), previše sunčeve radijacije može rezultirati prevelikim odsjajem i pregrijavanjem (efekt staklenika) što je potrebno kontrolirati intenzivnim hlađenjem.

Brisoleji su tip zaštite od sunca koji koriste horizontalne i vertikalne lamele kako bi se kontrolirala količina sunčeve svjetlosti i topline koja ulazi unutar objekta.

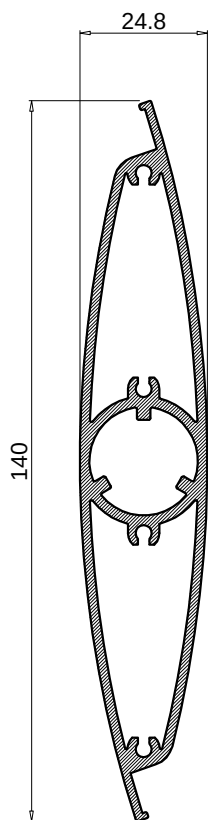
Brisoleji ispunjavaju veoma jednostavnu funkciju: lomljenje sunčevih zraka, što znači da su najefektivniji na južnoj strani objekta. Ovdje, horizontalni brisoleji mogu pružiti optimalnu zaštitu tijekom ljetnih mjeseci. Za istočnu i zapadnu stranu objekta prikladniji su vertikalni brisoleji, posebno kada je sunce niže a kut sunčevih zraka manji.

Brisoleji su tip zaštita od sunca s horizontalnim lamelama pod kutom, koje su dizajnirane da dopuste prolaz svjetla i zraka, ali ne vode i direktne svjetlosti. FEAL žaluzine nude širok izbor profila različitih veličina i oblika prikladnih za široku primjenu u prostorijama gdje je važno održavati adekvatnu ventilaciju poput parkirališta, tvorničkih postrojenja i sličnih.

Prednosti:

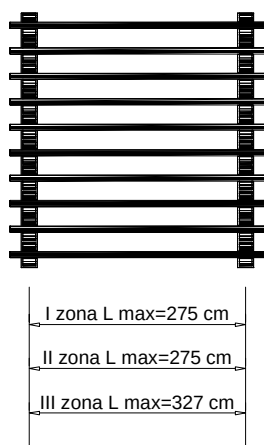
- UV i toplinska zaštita
- Kontrola dnevnog svjetla
- Vjetrootpornost
- Ušteda energije
- Dugotrajno rješenje
- Zaštita privatnosti
- Jednostavna instalacija
- Rađeno po mjeri
- Površinska obrada po RAL, Elox i Decoral karti

Ispitivanja i certifikati

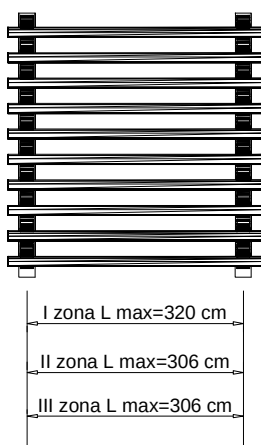


Fiksni brisolej		
Art.-Br.	F - 0770	
Težina	kg/m'	1.81
Opseg	mm	671
Moment inercije	I _x (cm ⁴)	83.87
	I _y (cm ⁴)	4.28
	W _x (cm ³)	11.98
	W _y (cm ³)	3.46
Dužina isporuke	mm	6500

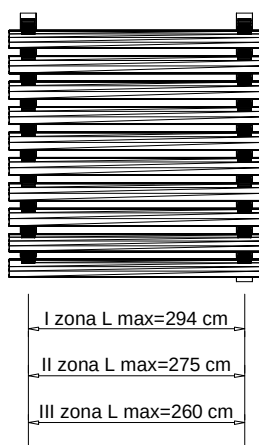
Maksimalni međurazmak između nosača (L) u ovisnosti od zone vjeta i kuta brisoleja



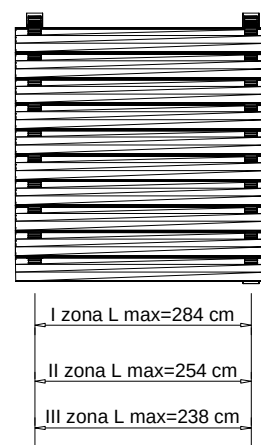
Otvoren 0°



Otvoren 15°

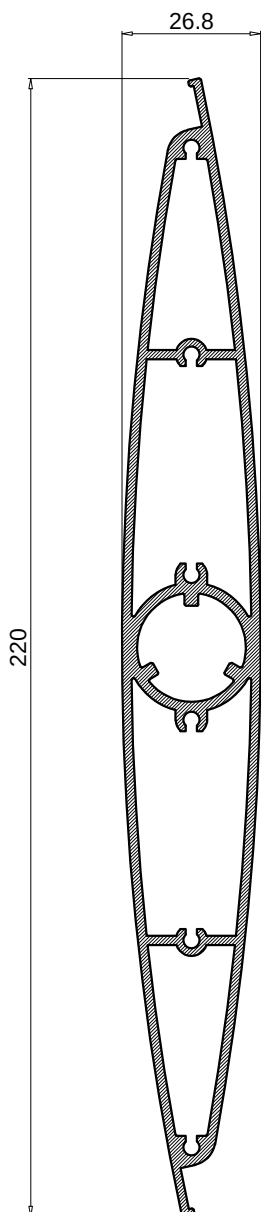


Otvoren 30°



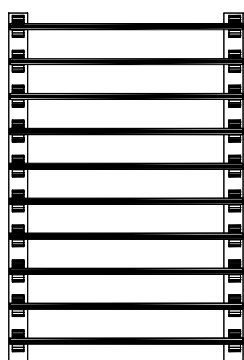
Otvoren 45°

Uvjet: maksimalni progib iznosi L/100 i 10 mm (položaj 0)



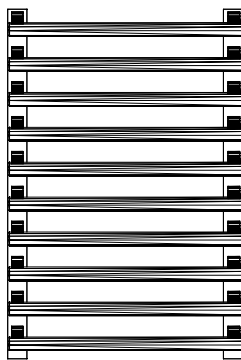
Fiksni brisolej		
Art.-Br.	F - 0769	
Težina	kg/m'	2.83
Opseg	mm	457
Moment inercije	I _x (cm ⁴)	338.95
	I _y (cm ⁴)	7.93
	W _x (cm ³)	30.81
	W _y (cm ³)	5.93
Dužina isporuke	mm	6500

Maksimalni međurazmak između nosača (L) u ovisnosti od zone vjetrova i kuta brisoleja



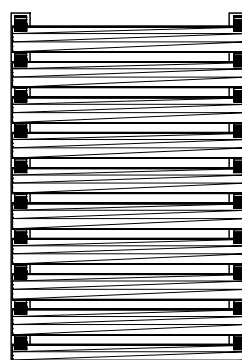
I zona L max=304 cm
II zona L max=304 cm
III zona L max=345 cm

Otvoren 0°



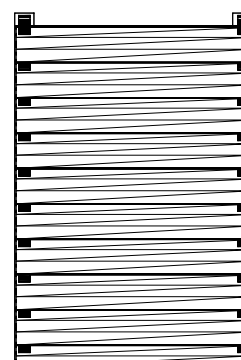
I zona L max=362 cm
II zona L max=338 cm
III zona L max=329 cm

Otvoren 15°



I zona L max=329 cm
II zona L max=299 cm
III zona L max=277 cm

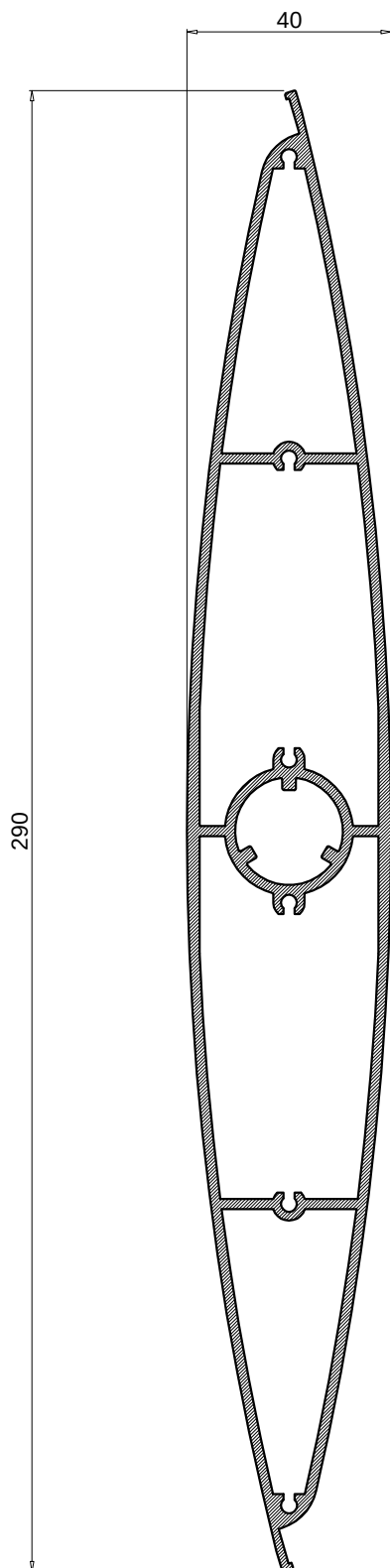
Otvoren 30°



I zona L max=305 cm
II zona L max=277 cm
III zona L max=255 cm

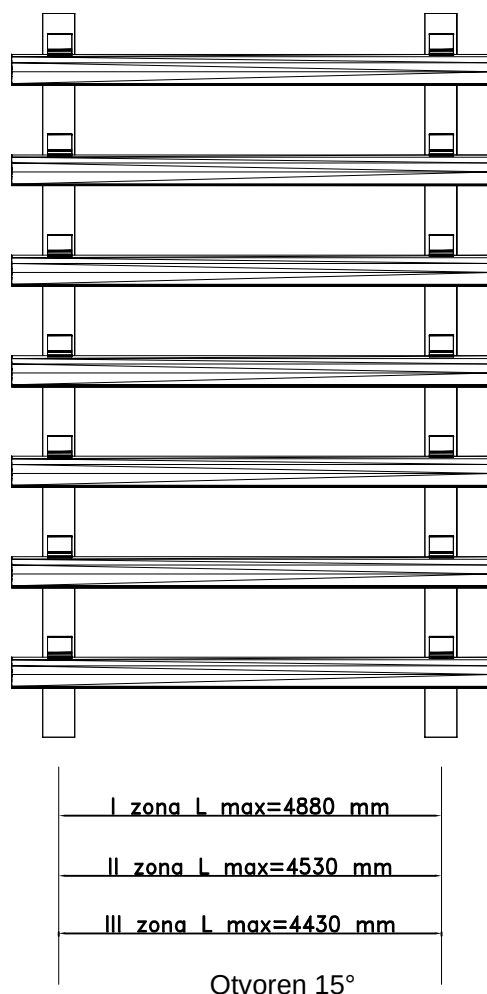
Otvoren 45°

Uvjet: maksimalni progib iznosi L/100 i 10 mm (položaj 0)



Fiksni brisolej		
Art.-Br.	F - 0893	
Težina	kg/m'	4.1
Opseg	mm	398.42
Moment inercije	I _x (cm ⁴)	855.39
	I _y (cm ⁴)	25.96
	W _x (cm ³)	58.98
	W _y (cm ³)	12.98
Dužina isporuke	mm	6500

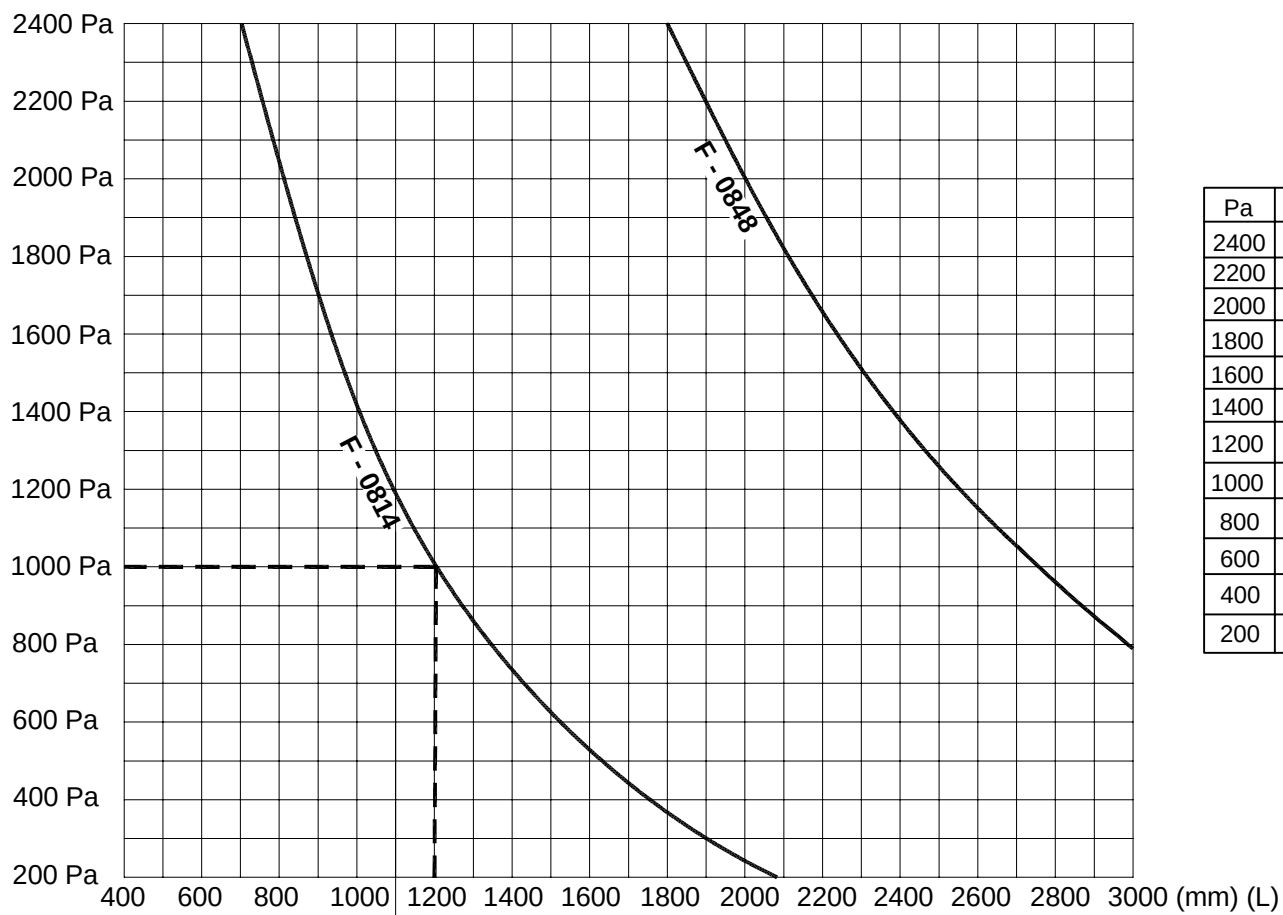
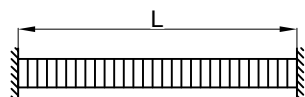
Maksimalni međurazmak između nosača (L) u ovisnosti od zone vjetra i kuta brisoleja



Uvjet: maksimalni progib iznosi L/100 i 10 mm (položaj 0)

Visina površine nad terenom koja je izložena djelovanju vjetra The height of the surface which is exposed to wind load	Stupanj zaštite fasadnog objekta Level of exposure of building to the wind	DJELOVANJE VJETRA ZA ZEMLJOPISNE ZONE WIND LOADS FOR GEOGRAPHICAL AREA					
		I	I	II	II	III	III
		Kg/m ²	Km/h	Kg/m ²	Km/h	Kg/m ²	Km/h
Do 10 m Under 10 m	Zaštićen (protected)	30	79	40	91	55	107
	Poluzaštićen (semi exposed)	40	91	55	107	60	112
	Izložen (exposed)	45	97	70	120	110	151
Od 10 m do 30 m From 10 m to 30 m	Poluzaštićen (semi exposed)	50	102	75	125	110	151
	Izložen (exposed)	60	112	90	137	130	164
Od 30 m do 60 m Od 30 m do 60 m	Izložen (exposed)	70	120	105	148	150	176
Od 60 m do 100 m Od 60 m do 100 m	Izložen (exposed)	80	129	120	158	170	188

Dijagram opterećenja žaluzina instaliranih u ramu



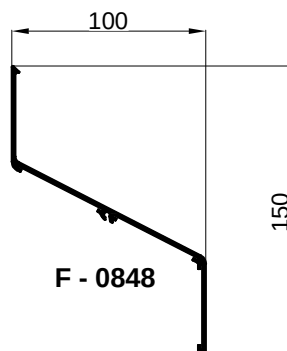
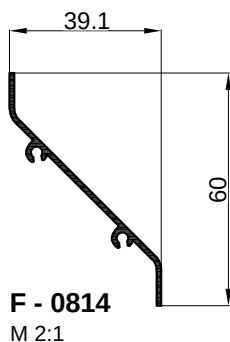
Tipovi opterećenja: 1. Opterećenje vjetrom
2. Vlastita težina profila
3. Opterećenje ledom 10 mm

Primjer:

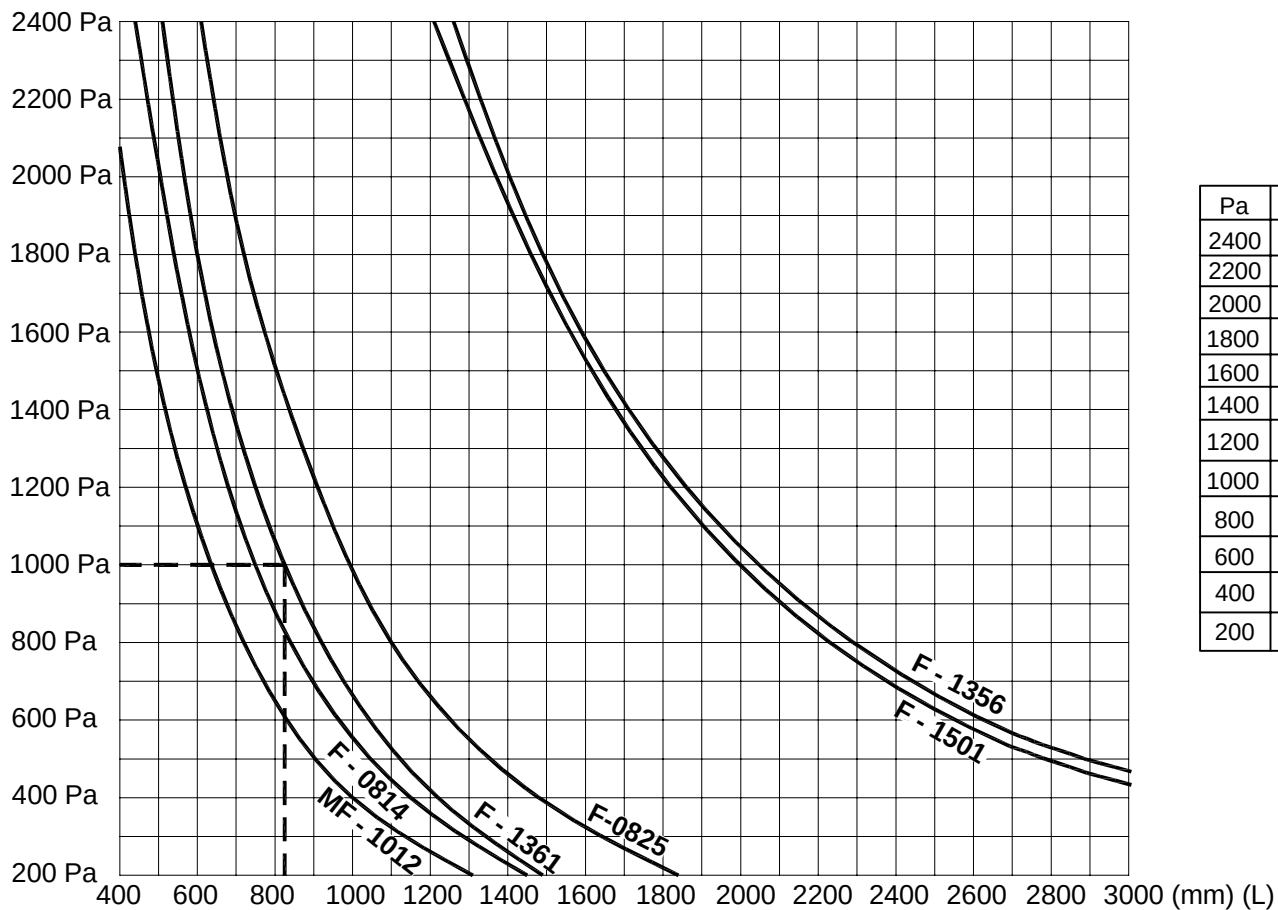
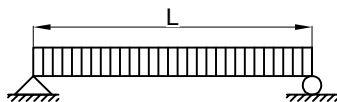
Profil: F-0814

Opt.vjetrom: 1000 Pa

Rez: Maks. širina između oslonaca: L=1200 mm



Dijagram opterećenja žaluzina instaliranih na dva oslonca



Tipovi opterećenja: 1. Opterećenje vjetrom
2. Vlastita težina profila
3. Opterećenje ledom 10 mm

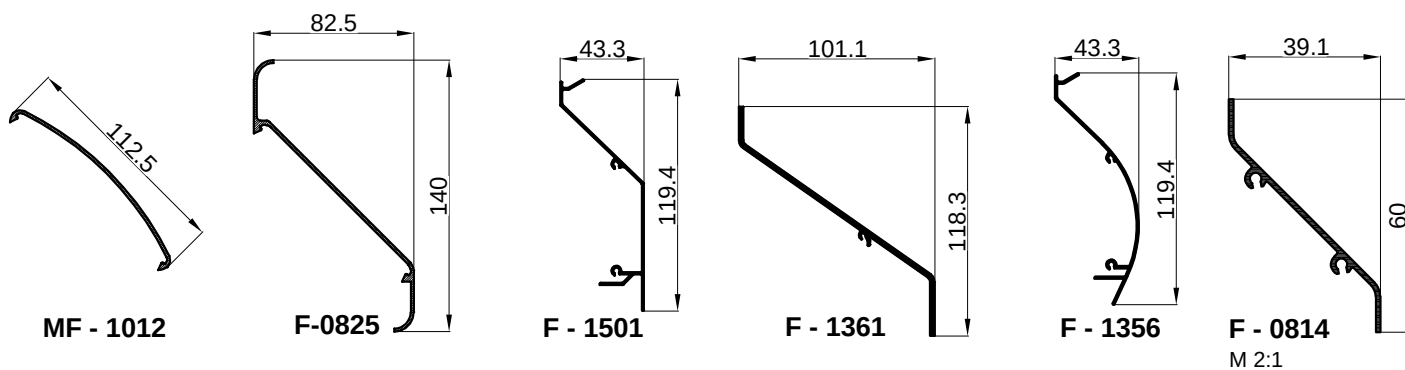
Primjer:

Profil: F-1361

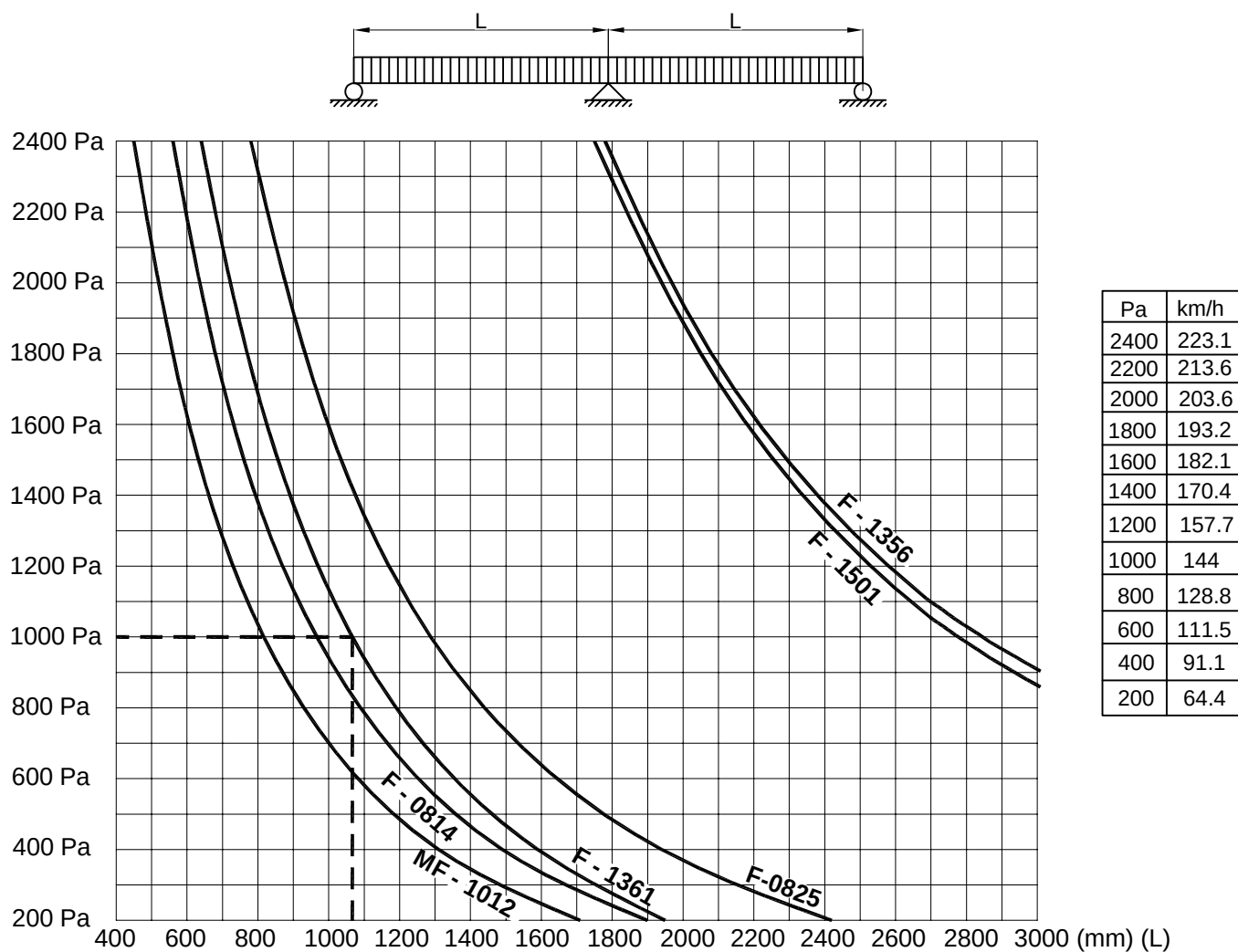
Opt.vjetrom: 1000 Pa

Rez:

Maks.širina između oslonaca: L=820 mm



Dijagram opterećenja žaluzina instaliranih na tri i više oslonaca



Tipovi opterećenja: 1. Opterećenje vjetrom
2. Vlastita težina profila
3. Opterećenje ledom 10 mm

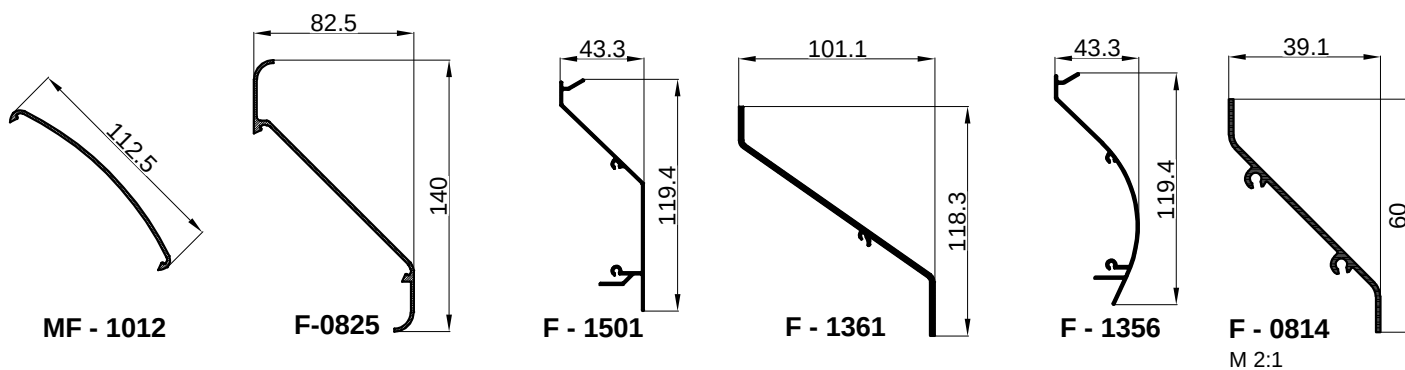
Primjer:

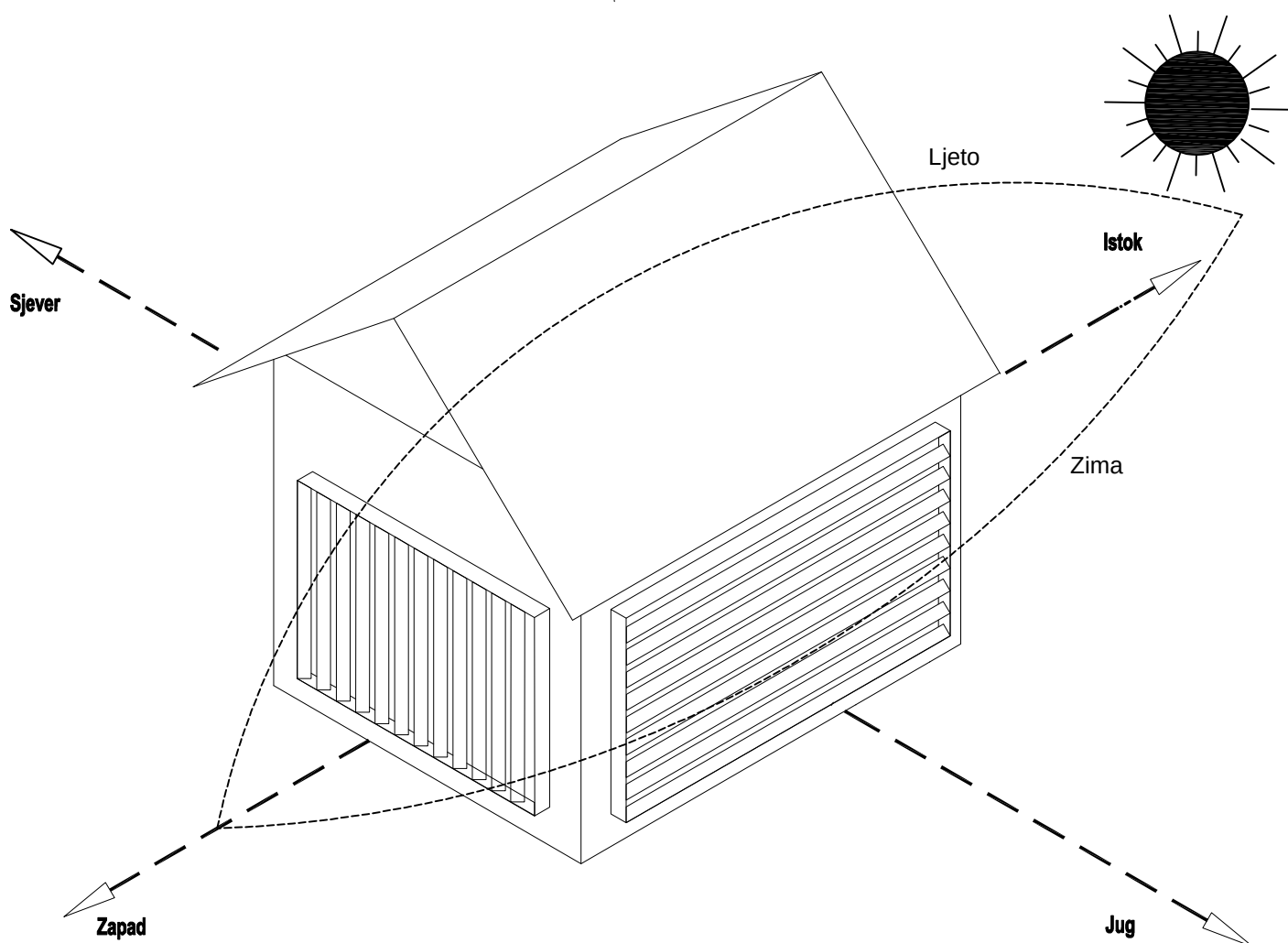
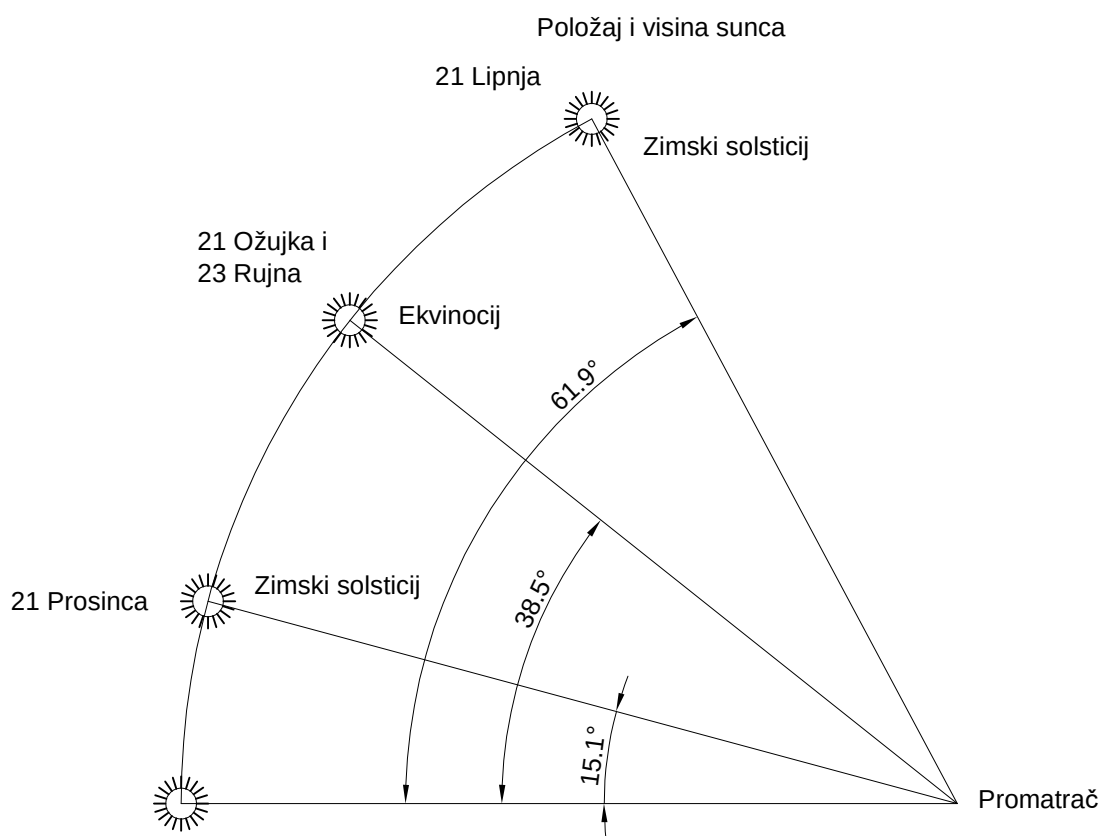
Profil: F-1361

Opt.vjetrom: 1000 Pa

Rez:

Maks.širina između oslonaca: L=1075 mm





DATE	ZAGREB			LONDON			BERLIN		
	N 45°48' E 15°38'			N 51°30' W 0°7'39			N 52°30' E 13°22'		
	TIME	AZIMUTH	ALTITUDE	TIME	AZIMUTH	ALTITUDE	TIME	AZIMUTH	ALTITUDE
21 MARCH	5:57*	88.47°	-0.40°	6:00	88.29°	-0.30°	6:06	88.28°	-0.28°
	9:00	124.63°	29.39°	9:00	125.99°	25.53°	9:00	124.95°	24.18°
	12:03 [#]	179.91°	44.63°	12:07	179.80°	38.95°	12:13	176.64°	37.87°
	14:00	218.17°	37.91°	14:00	214.50°	33.76°	14:00	212.43°	33.41°
	16:00	247.19°	21.32°	16:00	244.33°	19.66°	16:00	242.67°	20.02°
	18:10 ^x	271.59°	-0.20°	18:15	271.79°	-0.14°	18:22	272.00°	-0.25°
21 JUNE	5:05*	53.95°	-0.35°	4:42	48.68°	-0.33°	04:42	47.48°	-0.33°
	9:00	94.11°	37.60°	9:00	97.49°	36.31°	9:00	96.95°	35.27°
	12:57 [#]	179.41°	67.64°	13:02	179.82°	61.94°	13:08	179.84°	60.93°
	14:00	214.51°	64.36°	14:00	207.00°	59.83°	14:00	203.67°	59.31°
	16:00	254.31°	47.19°	16:00	247.53°	46.01°	16:00	245.00°	46.45°
	20:50 ^x	305.88°	-0.24°	21:22	311.18°	-0.25°	21:33	312.18°	-0.18°
21 SEPTEMBER	6:41*	88.09°	-0.34°	06:44	87.74°	-0.37°	06:50	87.72°	-0.33°
	9:00	114.31°	22.62°	9:00	115.38°	19.56°	9:00	114.37°	18.31°
	12:49 [#]	179.95°	44.73°	12:53	179.84°	39.02°	12:59	179.84°	38.03°
	14:00	204.21°	42.11°	14:00	201.02°	37.11°	14:00	198.94°	36.49°
	16:00	237.22°	28.38°	16:00	233.78°	25.73°	16:00	231.95°	25.87°
	18:55 ^x	271.36°	-0.13°	19:01	271.74°	-0.24°	19:07	271.76°	-0.20°
21 DECEMBER	7:33*	123.52°	-0.38°	08:03	128.21	-0.30	08:14	129.18°	-0.33°
	9:00	140.02°	10.36°	9:00	139.62°	5.59°	9:00	138.45°	4.27°
	11:54 [#]	179.93°	20.80°	11:58	179.84°	15.11°	12:04	179.85°	14.11°
	14:00	209.69°	15.16°	14:00	208.10°	10.55°	14:00	206.69°	10.08°
	16:00	233.68°	1.54°	15:54	231.71°	-0.27°	15:54	230.56°	-0.20°
	16:14 ^x	236.20°	-0.19°						

LEGENDA:

*-izlazak sunca

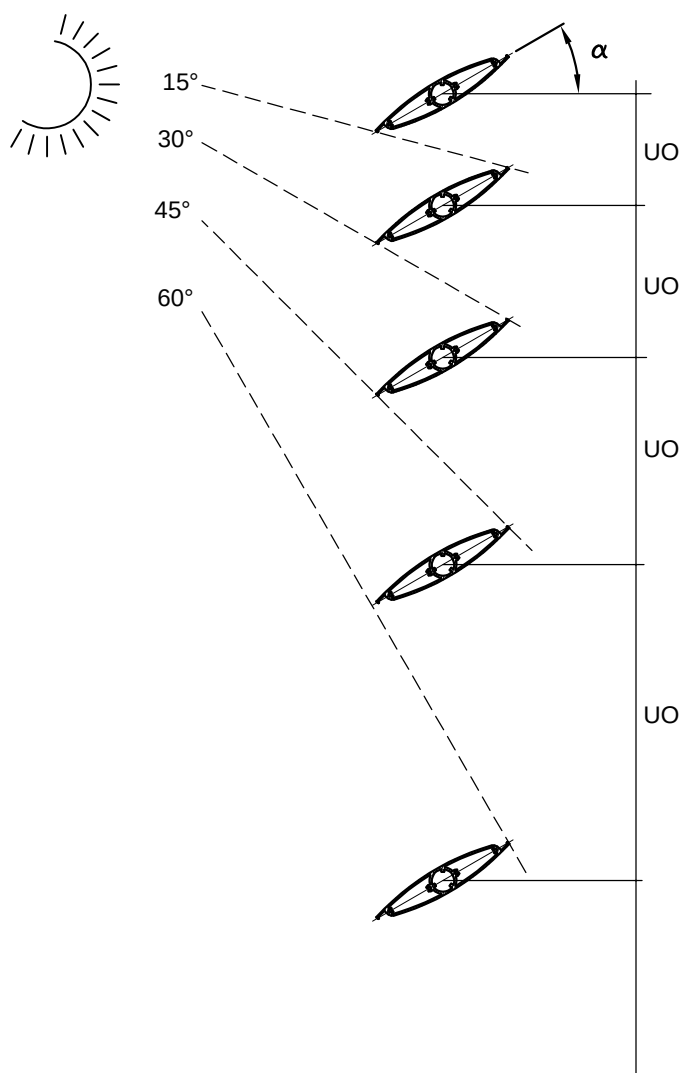
#-kulminacija

x-zalazak sunca

- Ostale lokacije se mogu dobiti na zahtjev

Uobičajena je montaža horizontalnih lamela na južnoj strani, a vertikalnih na istočnoj i zapadnoj strani objekta s obzirom na kut sunčevih zraka.

Horizontalni brisoleji - udaljenosti osa brisoleja za dane kutove



F-0770	UO - Udaljenosti osa brisoleja (mm)			
Kut sunčevih zraka	Kut brisoleja - α			
	90°	75°	60°	45°
15°	42	74	103	126
30°	79	115	140	156
45°	140	172	190	199
60°	242	270	280	273

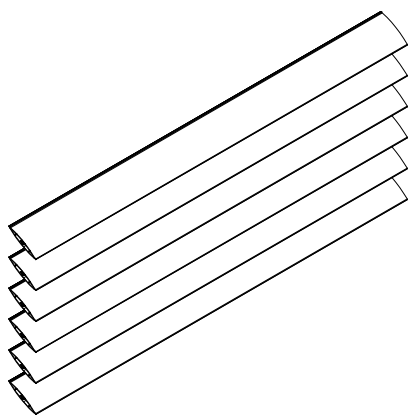
F-0769	UO - Udaljenosti osa brisoleja (mm)			
Kut sunčevih zraka	Kut brisoleja - α			
	90°	75°	60°	45°
15°	63	118	165	200
30°	130	184	223	250
45°	224	274	302	313
60°	385	426	442	425

F-0893	UO - Udaljenosti osa brisoleja (mm)
Kut sunčevih zraka	Kut brisoleja - α
	75°
15°	153
30°	240
45°	358
60°	561

Određivanje razmaka između brisoleja

Primjer 1

Uzimanje u obzir mikrolokacije i smjer objekta u odnosu na strane svijeta, zatim iz tablice uzeti vrijednost ALTITUDE



$$\begin{aligned} \text{tg} \gamma &= X/a & \Rightarrow X &= a \text{tg} \gamma \\ \cos \alpha &= a/L & \Rightarrow a &= L \cos \alpha \\ X &= L (\cos \alpha \times \text{tg} \gamma) \end{aligned}$$

$$\begin{aligned} Y &= X + H \\ \sin \alpha &= H/L & \Rightarrow H &= L \sin \alpha \\ Y &= L (\cos \alpha \times \text{tg} \gamma) + L \sin \alpha \\ Y &= L (\cos \alpha \times \tan \text{Alt} + \sin \alpha) \end{aligned}$$

Vertikalna montaža lamela

Primjer izbora lamele

α -Kut lamele

$\text{tg} \gamma = \text{Alt} - \text{Altitude}$

L-Širina lamele

X-vidljivost

Y-razmak između lamela

Primjer:

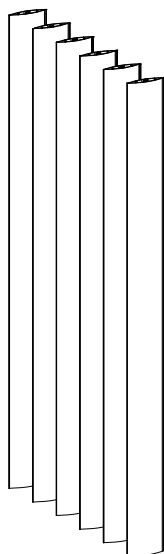
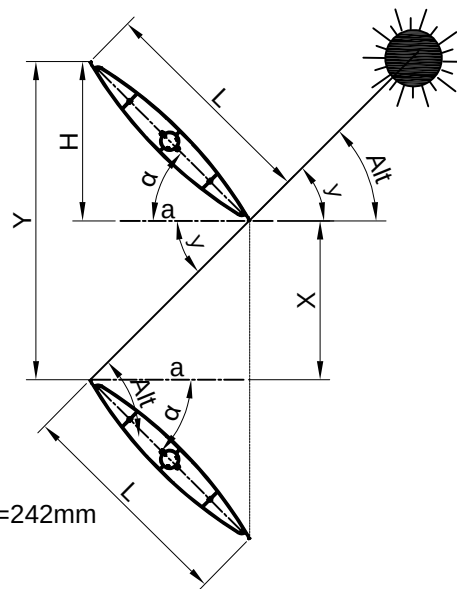
$\alpha = 30^\circ$

$\text{Alt} = 21^\circ$

$L = 290 \text{ mm}$

$X = 290 (\cos 30 \times \text{tg} 21) = 97 \text{ mm}$

$Y = 290 (\cos 30 \times \tan 21 + \sin 30) = 242 \text{ mm}$



East: $91^\circ \times 180^\circ$

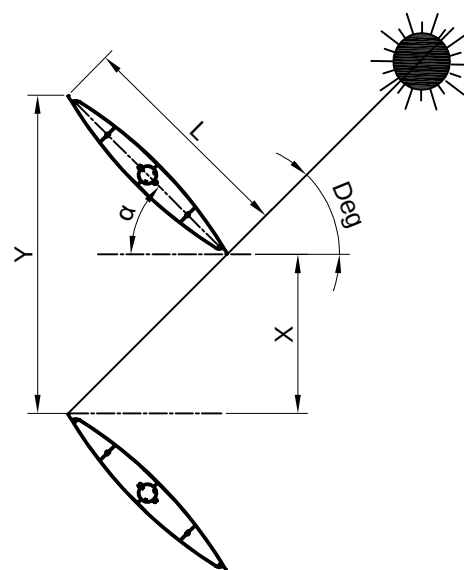
Deg: $180 - \text{Azimuth}$

West: 180×270

Deg = Azimuth

$X = L (\cos \alpha \times \tan \text{Deg})$

$Y = L (\cos \alpha \times \tan \text{Deg} + \sin \alpha)$



Horizontalna montaža lamela

$Y = w (\cos \alpha + 1/\tan \text{Alt} \times \sin \alpha)$

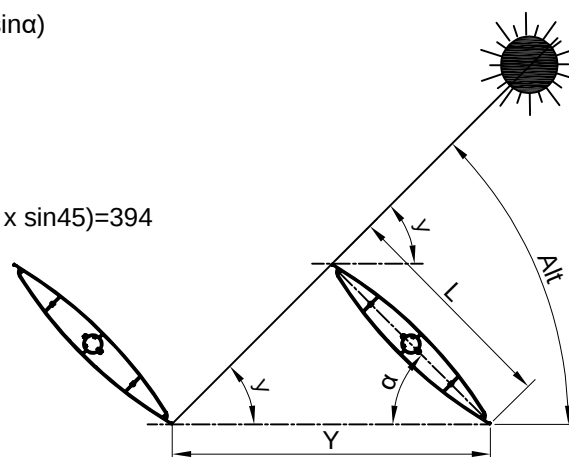
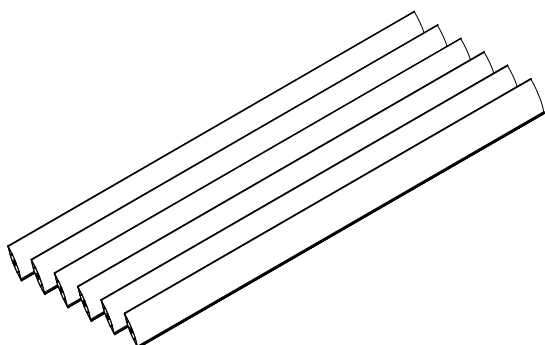
Primjer:

$\alpha = 45$

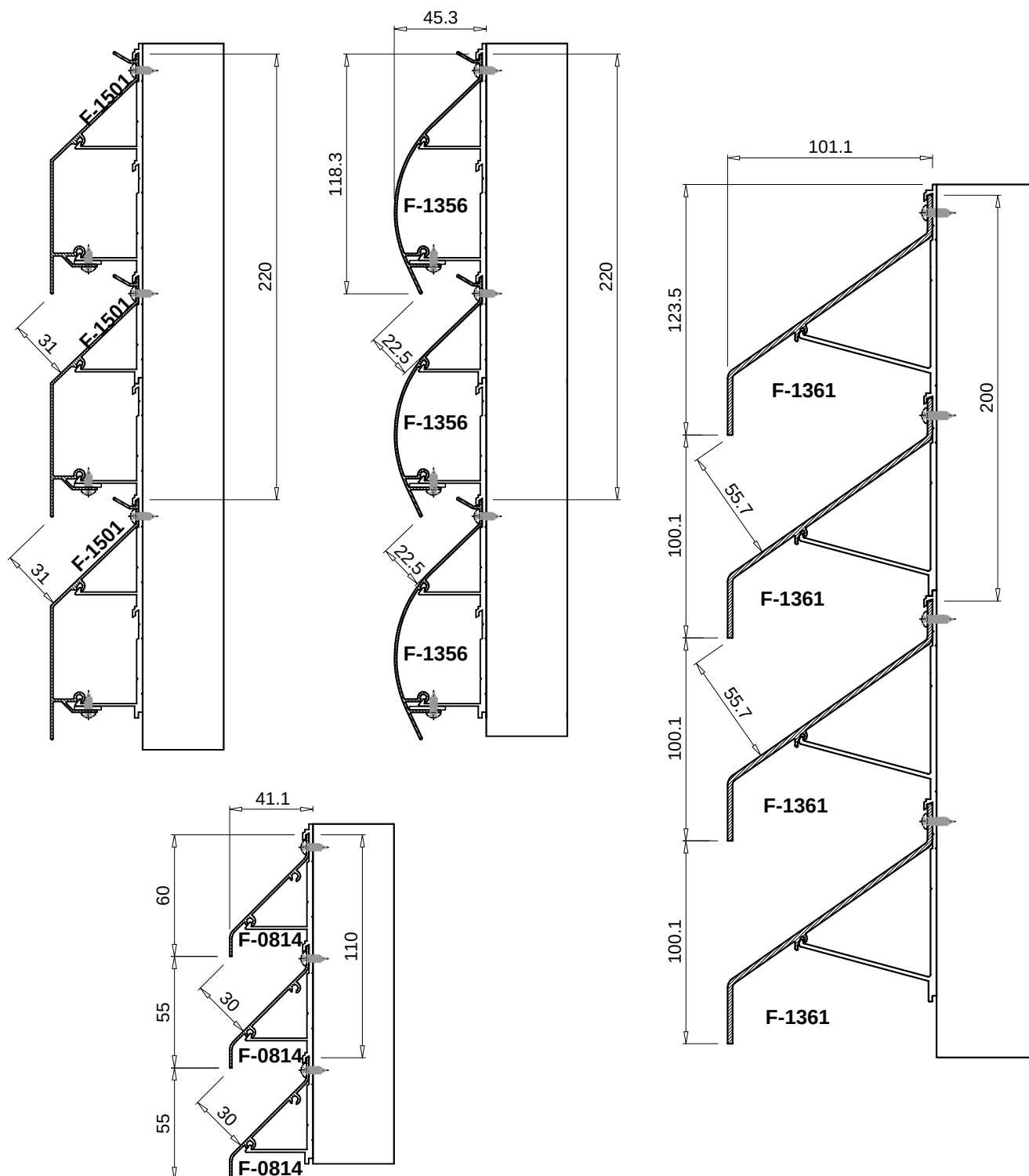
$\text{Alt} = 44.63^\circ$

$L = 290$

$Y = 290 (\cos 45^\circ + \text{ctg} 44^\circ \times \sin 45) = 394$

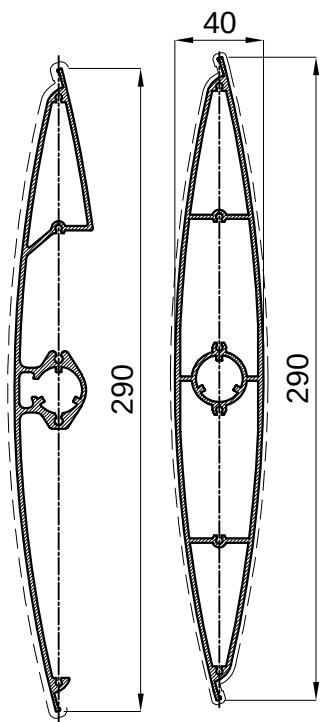


Postupak računanja slobodnog prostora za ventilaciju zraka/ The procedure for calculating the free ventilation area



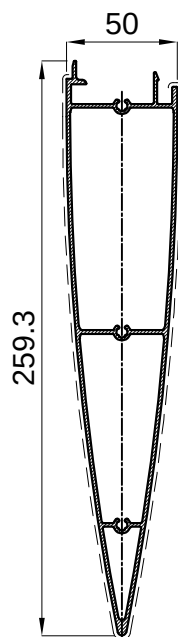
Proračun slobodnog prostora za ventilaciju zraka/ Free ventilation area calculation				
Profil lamele/ Louver profile	F-0814	F-1356	F-1361	F-1501
Slobodni prostor [%]/ Free Area [%]	$60/110=54,54\%$	$45/220=20,45\%$	$111,4/200=55,7\%$	$62/220=28,18\%$

Profili

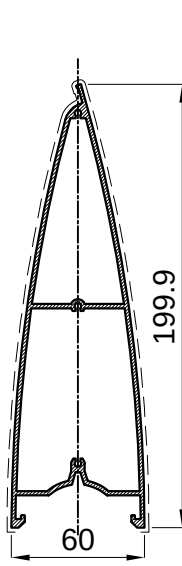


F-1487
3.124 kg/m

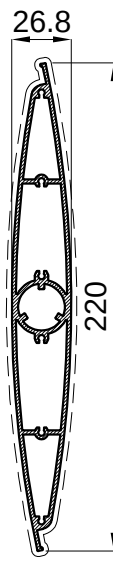
F-0893
4.10 kg/m



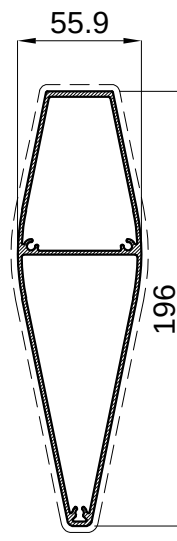
F-1817
2.971 kg/m



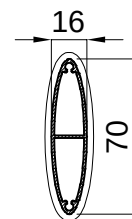
F-0768
2.898 kg/m



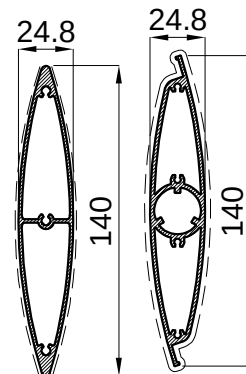
F-0769
2.826 kg/m



F-1833
2.495 kg/m

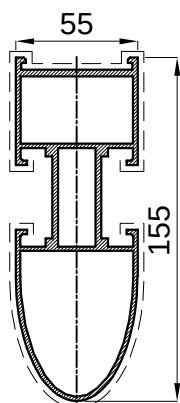


F-1398
0.57 kg/m

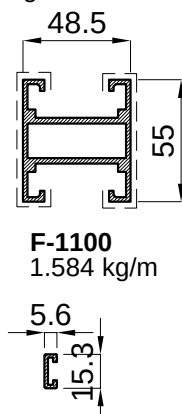


NP-4827
1.498 kg/m

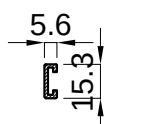
F-0770
1.814 kg/m



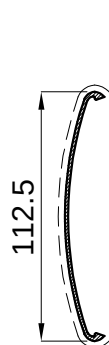
F-0904
3.30 kg/m



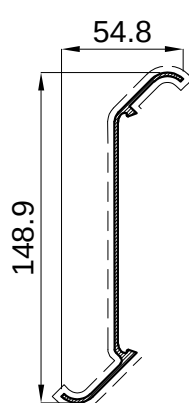
F-1100
1.584 kg/m



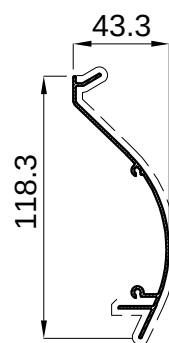
F-1382
0.114 kg/m



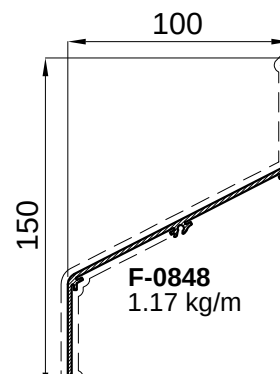
MF-1012
0.53 kg/m



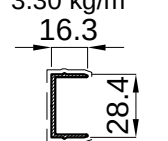
F-0825
0.84 kg/m



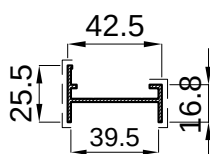
F-1356
0.61 kg/m



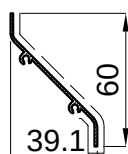
F-0848
1.17 kg/m



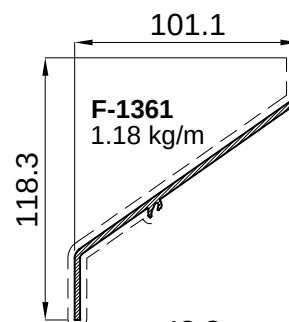
F-1248
0.240 kg/m



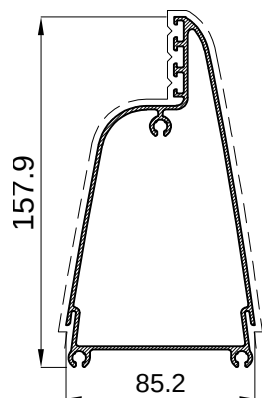
F-0813
0.359 kg/m



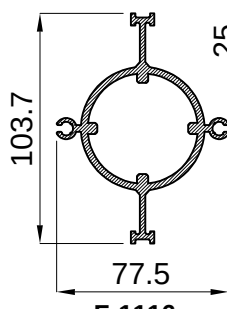
F-0814
0.3 kg/m



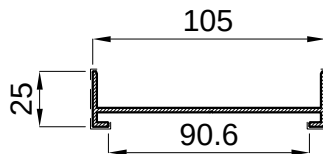
F-1361
1.18 kg/m



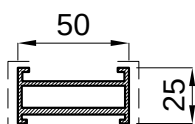
F-1115
2.38 kg/m



F-1116
2.30 kg/m



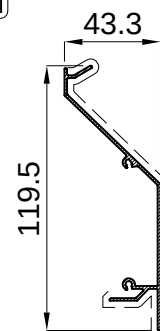
F-1409
0.87 kg/m



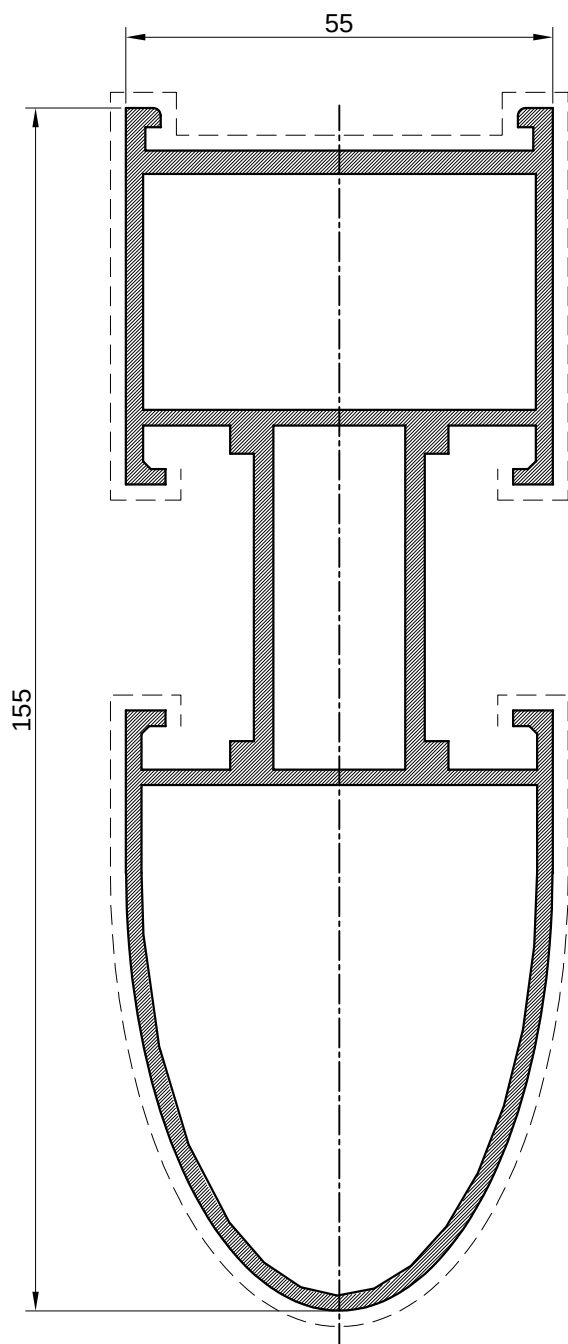
MF-1013
0.92 kg/m



F-1114
1.055 kg/m

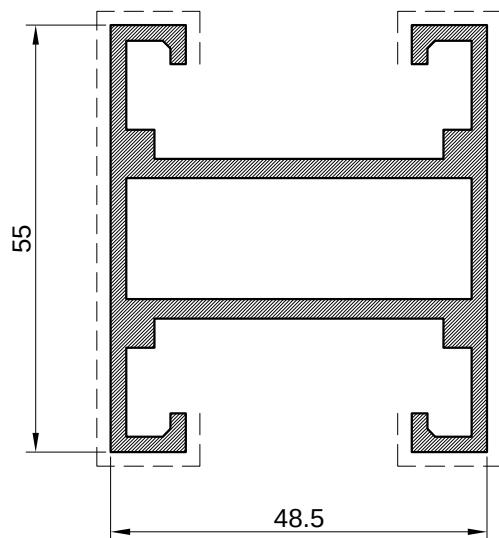


F-1501
0.65 kg/m

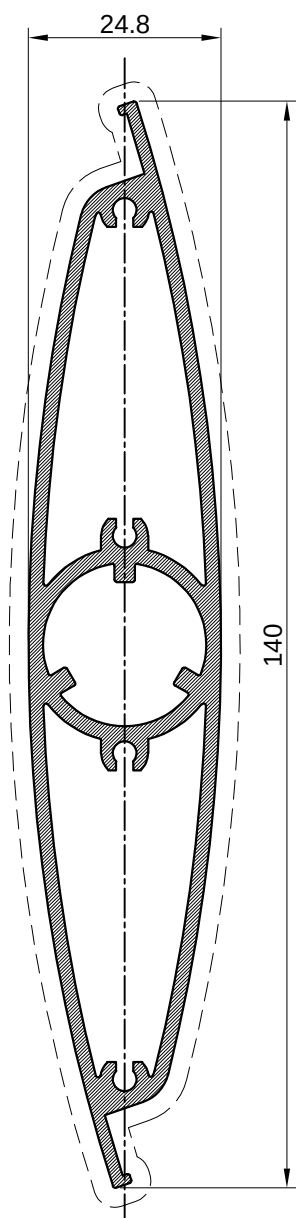


Al profil		
Art.-Br.	F-0904	
Težina	kg/m'	3.30
Opseg	mm	554.65
Moment inercije	I _x (cm ⁴)	237.49
	I _y (cm ⁴)	44.34
	W _x (cm ³)	26.38
	W _y (cm ³)	16.12
L	mm	SD

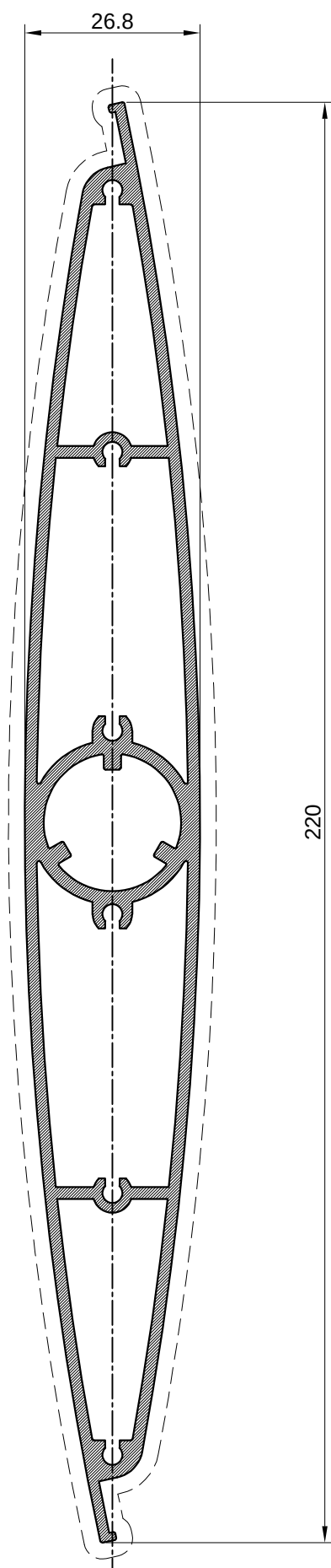
Al profil		
Art.-Br.	F-1248	
Težina	kg/m'	0.240
Opseg	mm	118.27
Moment inercije	I _x (cm ⁴)	0.2
	I _y (cm ⁴)	1.05
	W _x (cm ³)	0.17
	W _y (cm ³)	0.71
L	mm	6500



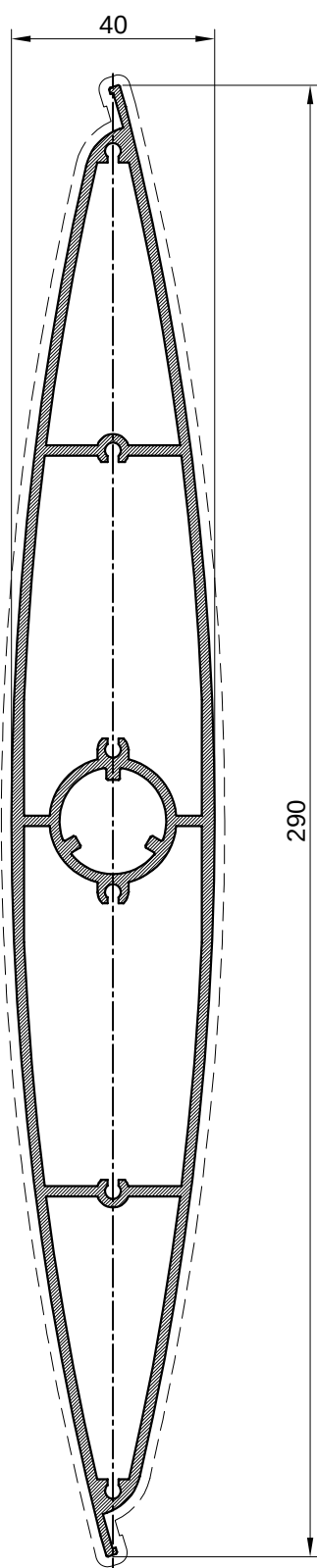
Al profil		
Art.-Br.	F-1100	
Težina	kg/m'	1.584
Opseg	mm	358.26
Moment inercije	I _x (cm ⁴)	14.18
	I _y (cm ⁴)	20.70
	W _x (cm ³)	5.16
	W _y (cm ³)	8.54
L	mm	SD



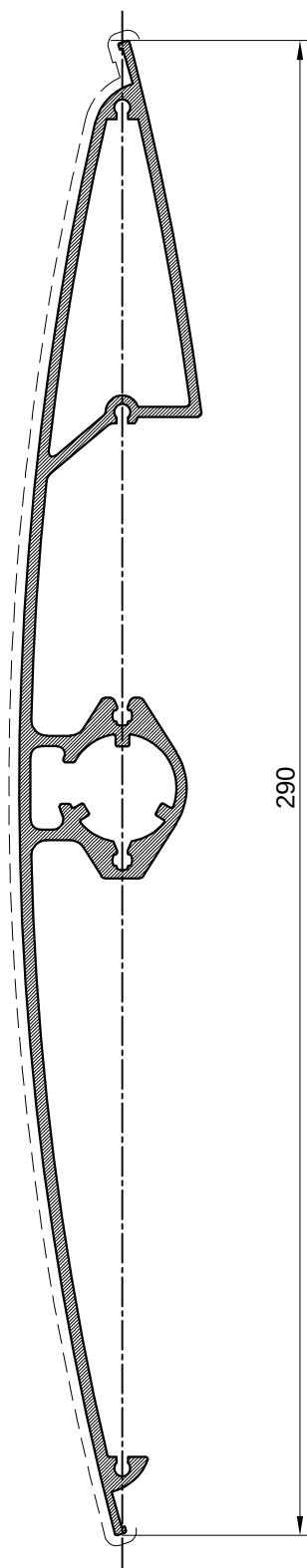
Lamela		
Art.-Br.	F-0770	
Težina	kg/m'	1.814
Opseg	mm	300
Moment inercije	I _x (cm ⁴)	84.05
	I _y (cm ⁴)	4.3
	W _x (cm ³)	12.01
	W _y (cm ³)	3.47
L	mm	SD



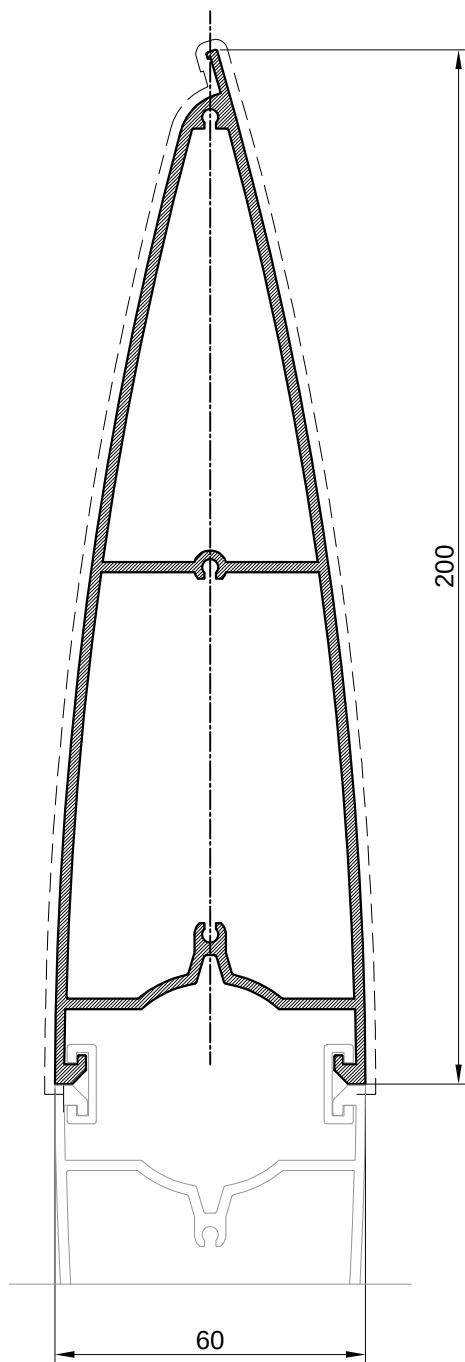
Lamela		
Art.-Br.	F-0769	
Težina	kg/m'	2.826
Opseg	mm	457
Moment inercije	I _x (cm ⁴)	338.99
	I _y (cm ⁴)	7.97
	W _x (cm ³)	30.82
	W _y (cm ³)	5.95
L	mm	SD



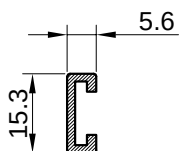
Lamela		
Art.-Br.	F-0893	
Težina	kg/m'	4.10
Opseg	mm	597.63
Moment inercije	I _x (cm ⁴)	855.40
	I _y (cm ⁴)	25.96
	W _x (cm ³)	59.00
	W _y (cm ³)	12.98
Dužina isporuke	mm	



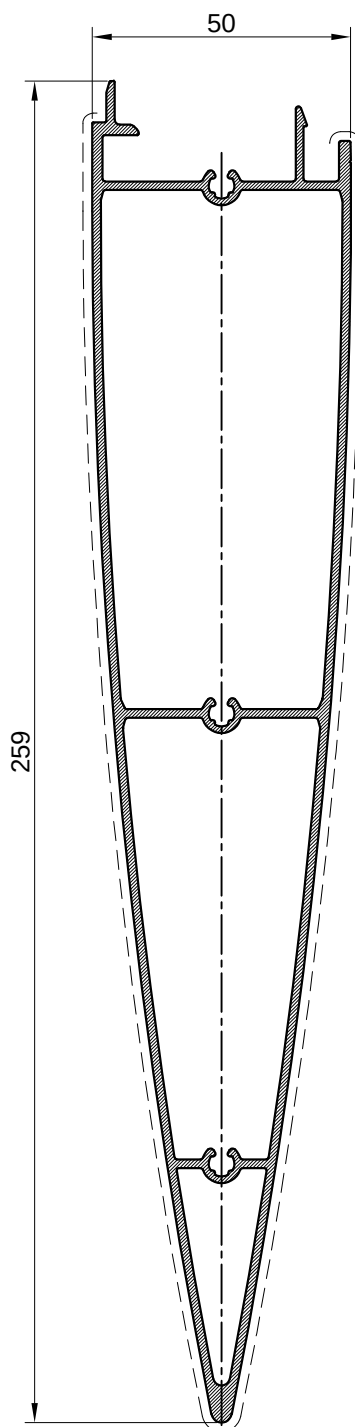
Lamela		
Art.-Br.	F-1487	
Težina	kg/m'	3.124
Opseg	mm	721
Moment inercije	I _x (cm ⁴)	646.22
	I _y (cm ⁴)	11.3
	W _x (cm ³)	40.78
	W _y (cm ³)	5.22
Dužina isporuke	mm	



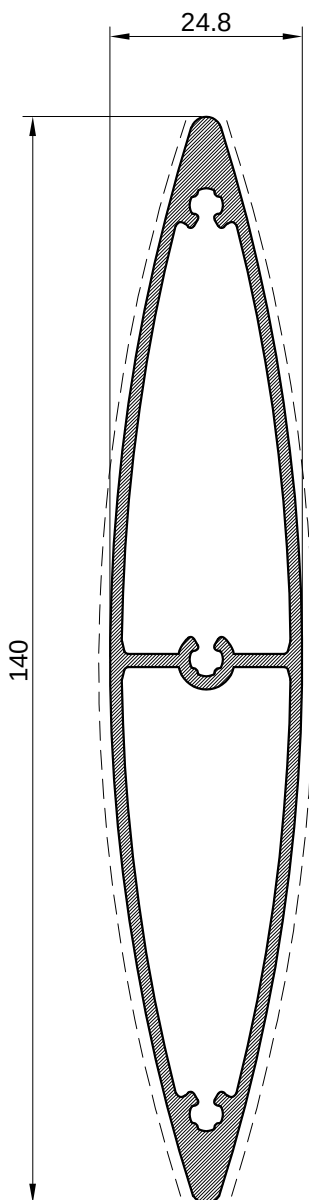
Lamela		
Art.-Br.	F-0768	
Težina	kg/m'	2.898
Opseg	mm	531.55
Moment inercije	I _x (cm ⁴)	366.4
	I _y (cm ⁴)	42.42
	W _x (cm ³)	32.21
	W _y (cm ³)	14.11
L	mm	SD



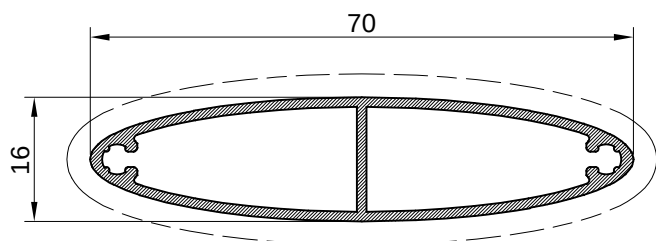
Al. profil		
Art.Br.	F-1382	
Težina	kg/m'	0.114
Opseg	mm	57.14
L	mm	6500



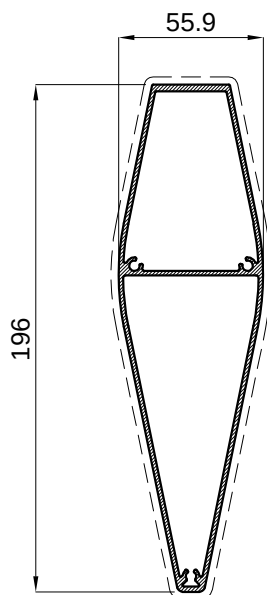
Lamela		
Art.-Br.	F-1817	
Težina	kg/m'	2.971
Opseg	mm	644
Moment inercije	I _x (cm ⁴)	32.03
	I _y (cm ⁴)	653.9
	W _x (cm ³)	12.66
	W _y (cm ³)	47.64
L	mm	SD



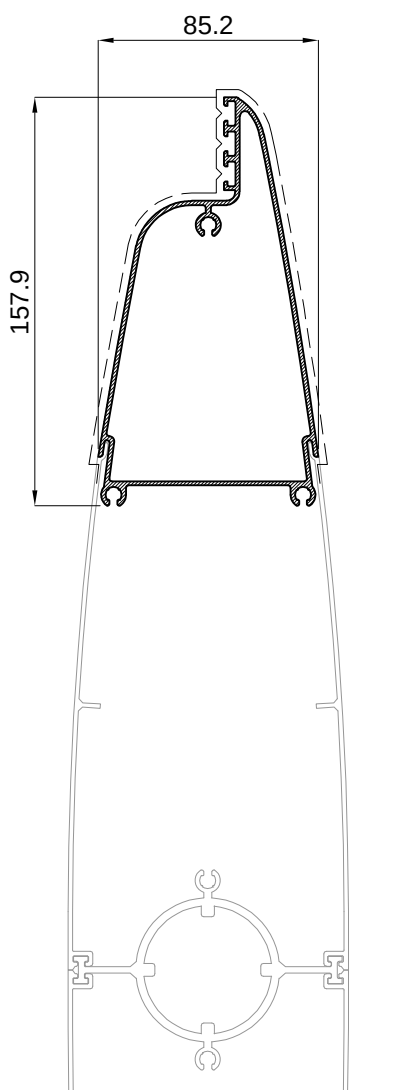
Fiksni brisolej		
Art.-Br.	NP-4827	
Težina	kg/m'	1.498
Opseg	mm	288.74
Moment inercije	I _x (cm ⁴)	100.06
	I _y (cm ⁴)	3.35
	W _x (cm ³)	14.29
	W _y (cm ³)	2.71
Dužina isporuke	mm	6500



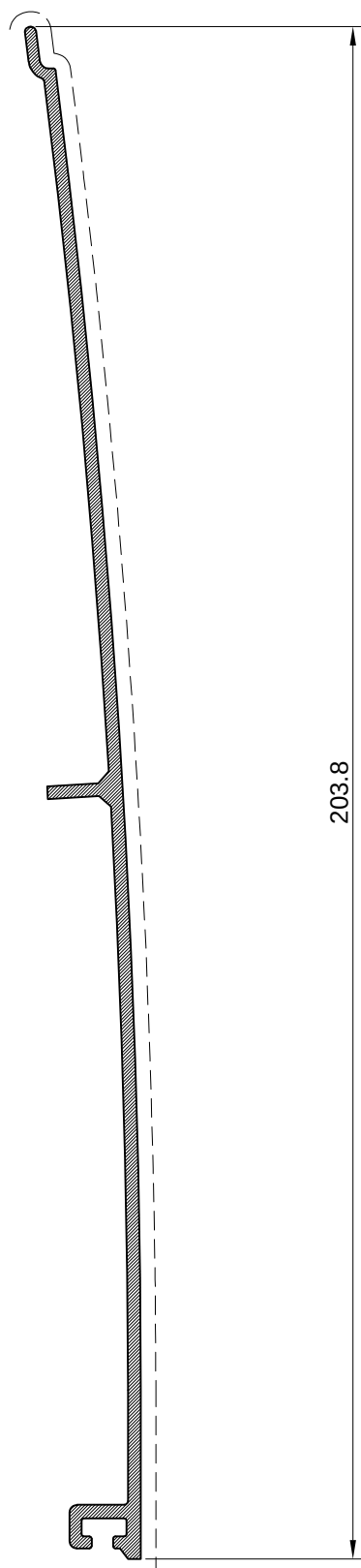
Fiksni brisolej		
Art.-Br.	F - 1398	
Težina	kg/m'	0.57
Opseg	mm	148.77
Moment inercije	I _x (cm ⁴)	99.82
	I _y (cm ⁴)	3.36
	W _x (cm ³)	14.23
	W _y (cm ³)	2.72
Dužina isporuke	mm	6500



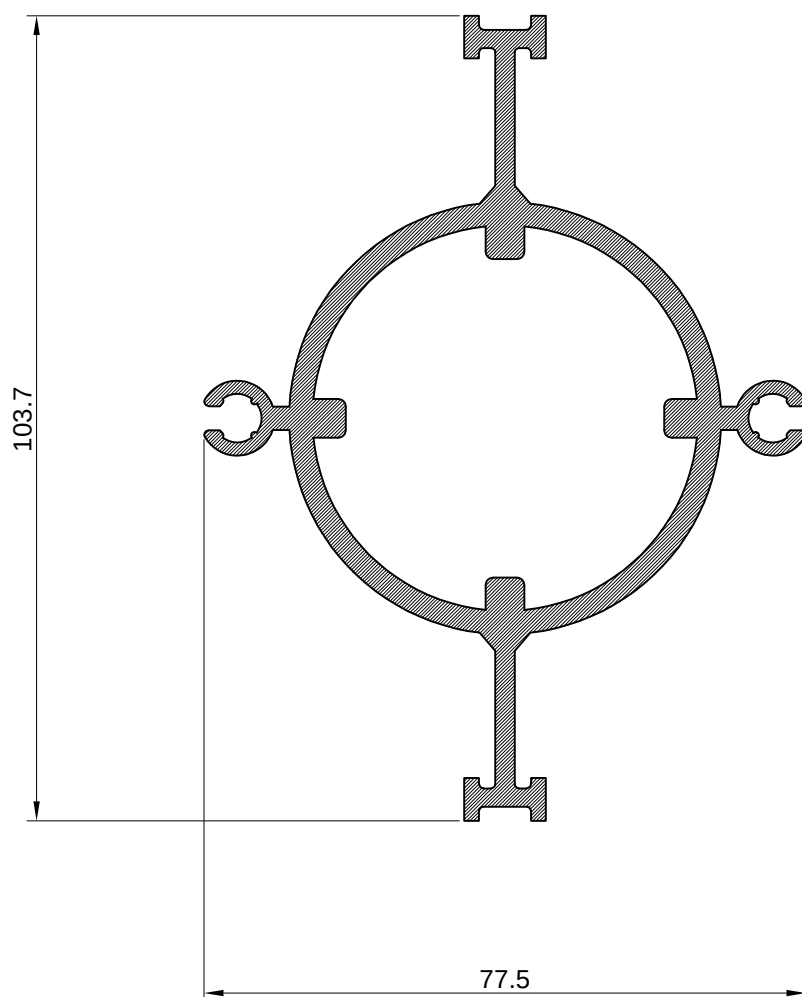
Fiksni brisolej		
Art.-Br.	F - 1833	
Težina	kg/m'	2.495
Opseg	mm	438
Moment inercije	I _x (cm ⁴)	320.02
	I _y (cm ⁴)	30.79
	W _x (cm ³)	30.43
	W _y (cm ³)	11.02
Dužina isporuke	mm	6500



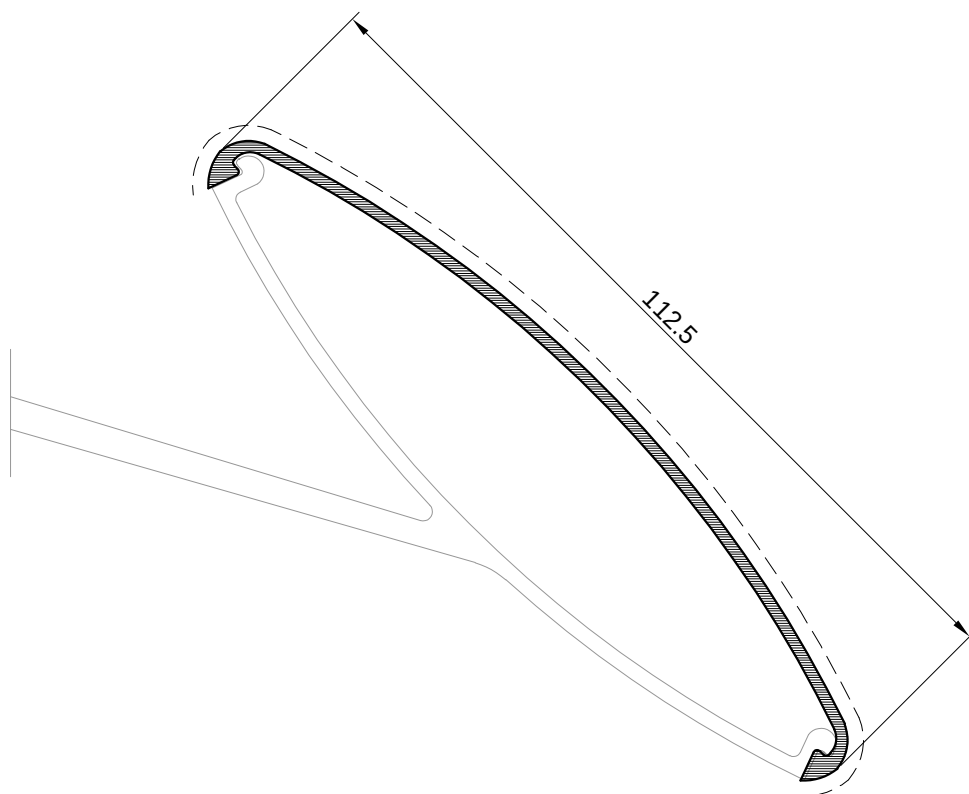
Dio lamele 675 mm		
Art.-Br.	F - 1115	
Težina	kg/m'	2.38
Opseg	mm	565.51
Moment inercije	I _x (cm ⁴)	231.38
	I _y (cm ⁴)	68.59
	W _x (cm ³)	26.70
	W _y (cm ³)	15.00
Dužina isporuke	mm	6500



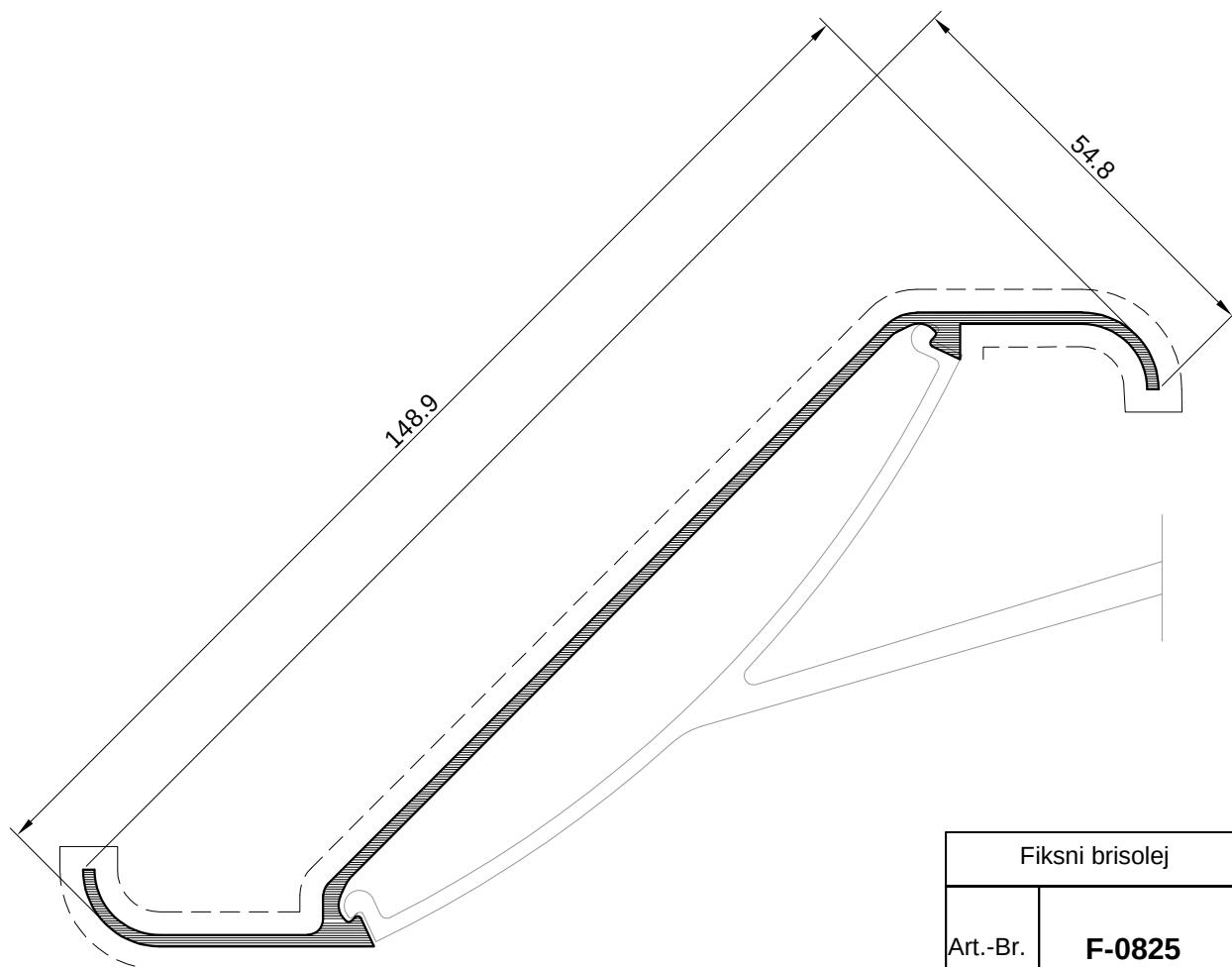
Dio lamele 675 mm		
Art.-Br.	F - 1114	
Težina	kg/m'	1.055
Opseg	mm	455.70
Moment inercije	I _x (cm ⁴)	144.23
	I _y (cm ⁴)	0.541
	W _x (cm ³)	13.31
	W _y (cm ³)	0.51
Dužina isporuke	mm	6500



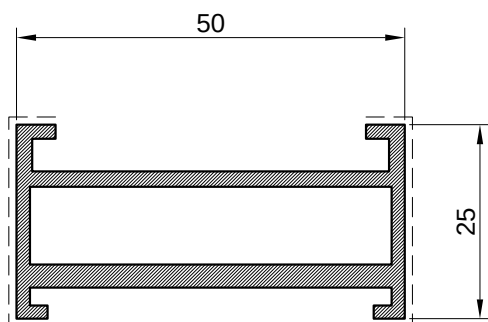
Dio lamele 675 mm		
Art.-Br.	F - 1116	
Težina	kg/m'	2.30
Opseg	mm	405.97
Moment inercije	I _x (cm ⁴)	52.58
	I _y (cm ⁴)	29.46
	W _x (cm ³)	10.13
	W _y (cm ³)	7.60
Dužina isporuke	mm	6500



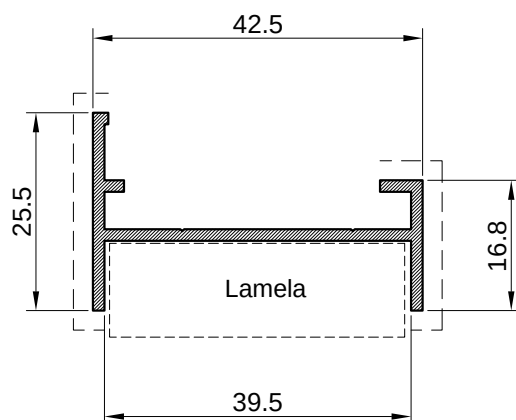
Fiksni brisolej		
Art.-Br.	MF - 1012	
Težina	kg/m'	0.53
Opseg	mm	256.83
Moment inercije	I _x (cm ⁴)	0.42
	I _y (cm ⁴)	26.04
	W _x (cm ³)	0.33
	W _y (cm ³)	4.63
Dužina isporuke	mm	6500



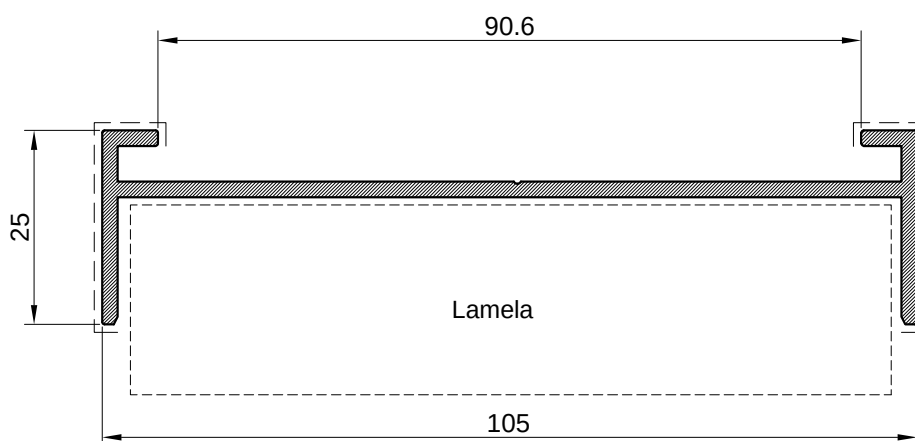
Fiksni brisolej		
Art.-Br.	F-0825	
Težina	kg/m'	0.84
Opseg	mm	390
Moment inercije	I _x (cm ⁴)	77.48
	I _y (cm ⁴)	2.37
	W _x (cm ³)	10.25
	W _y (cm ³)	0.83
Dužina isporuke	mm	6500



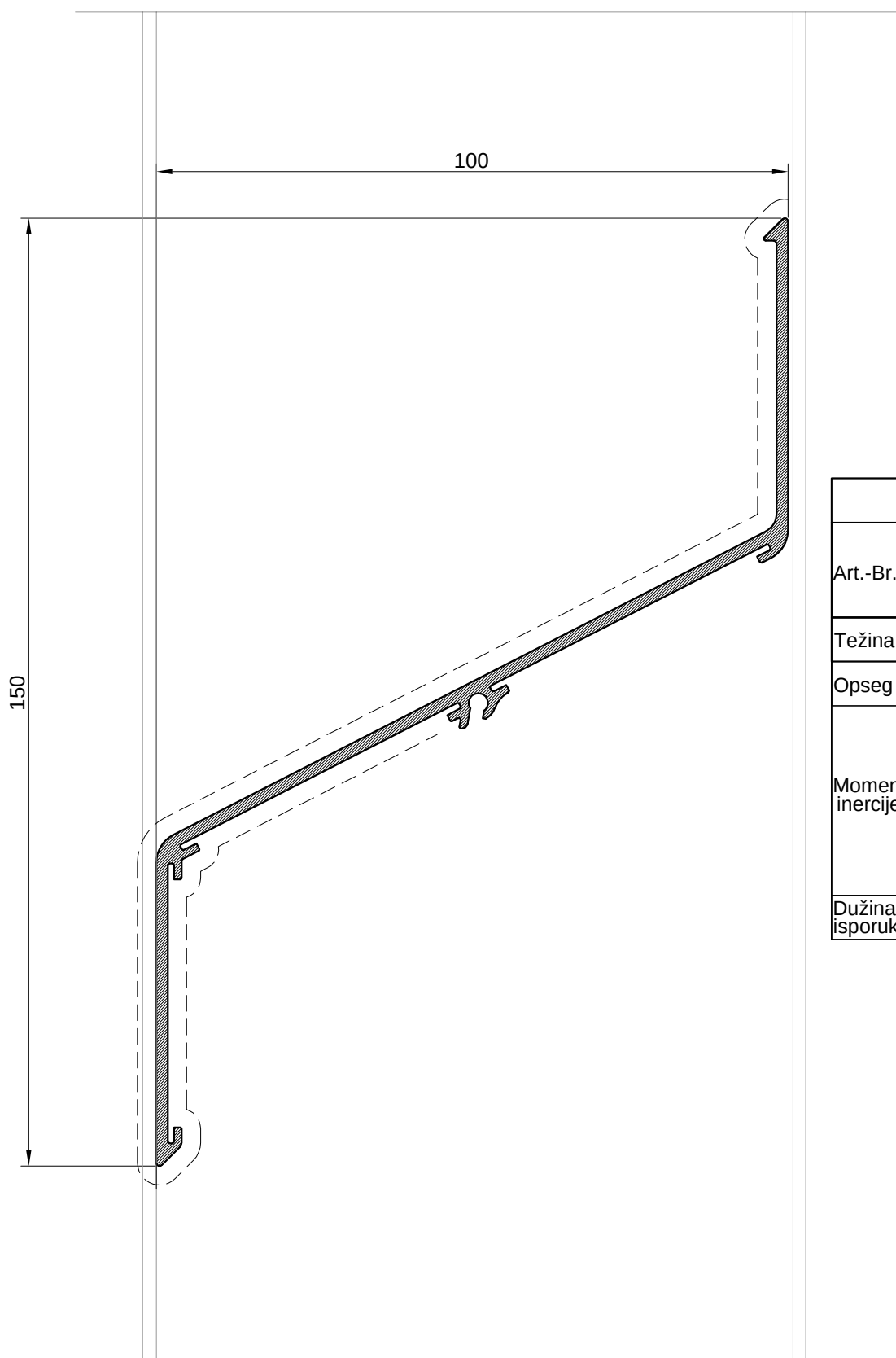
Vodilica		
Art.-Br.	MF - 1013	
Težina	kg/m'	0.92
Opseg	mm	191.2
Moment inercije	I _x (cm ⁴)	1.66
	I _y (cm ⁴)	10.25
	W _x (cm ³)	1.22
	W _y (cm ³)	4.1
Dužina isporuke	mm	6500



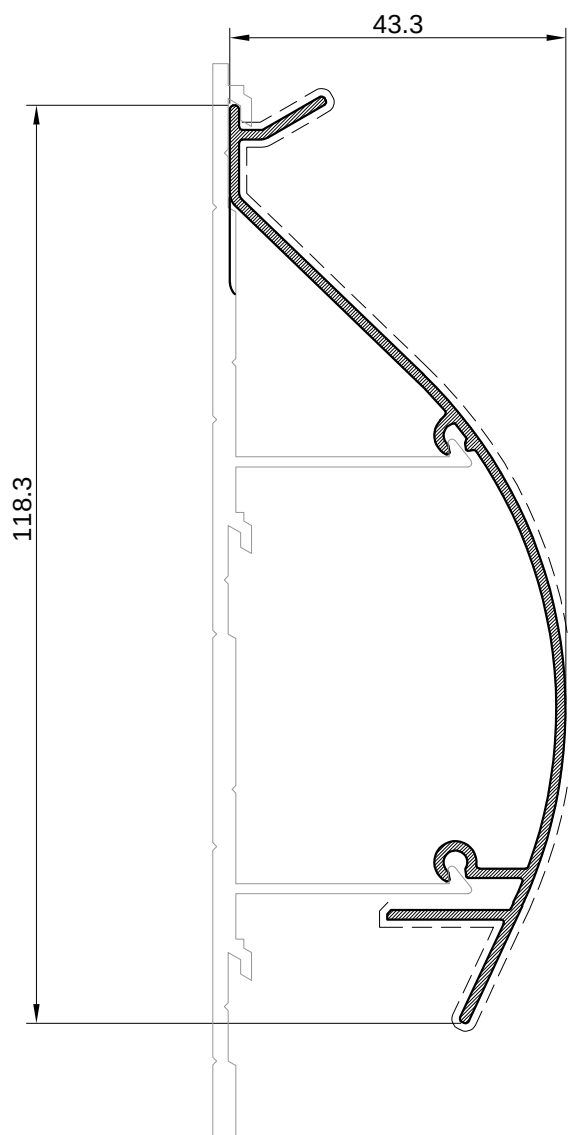
Vodilica		
Art.-Br.	F - 0813	
Težina	kg/m'	0.359
Opseg	mm	182
Moment inercije	I _x (cm ⁴)	0.34
	I _y (cm ⁴)	3.74
	W _x (cm ³)	0.24
	W _y (cm ³)	1.62
Dužina isporuke	mm	6500



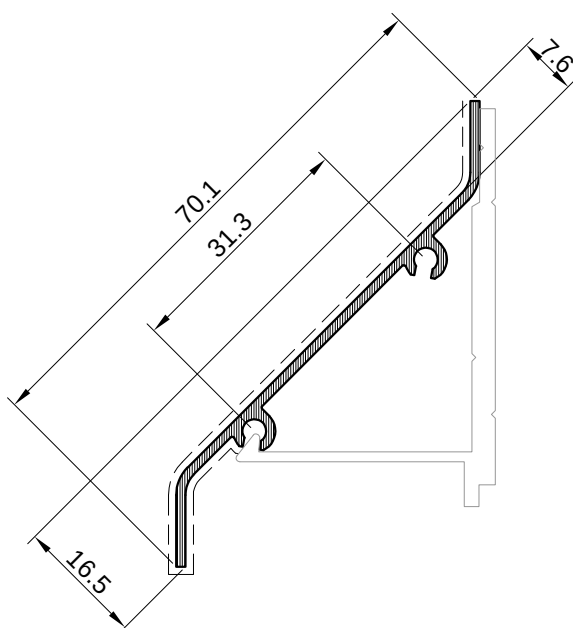
Vodilica		
Art.-Br.	F - 1409	
Težina	kg/m'	0.87
Opseg	mm	325.25
Moment inercije	I _x (cm ⁴)	0.80
	I _y (cm ⁴)	48.30
	W _x (cm ³)	0.49
	W _y (cm ³)	9.20
Dužina isporuke	mm	6500



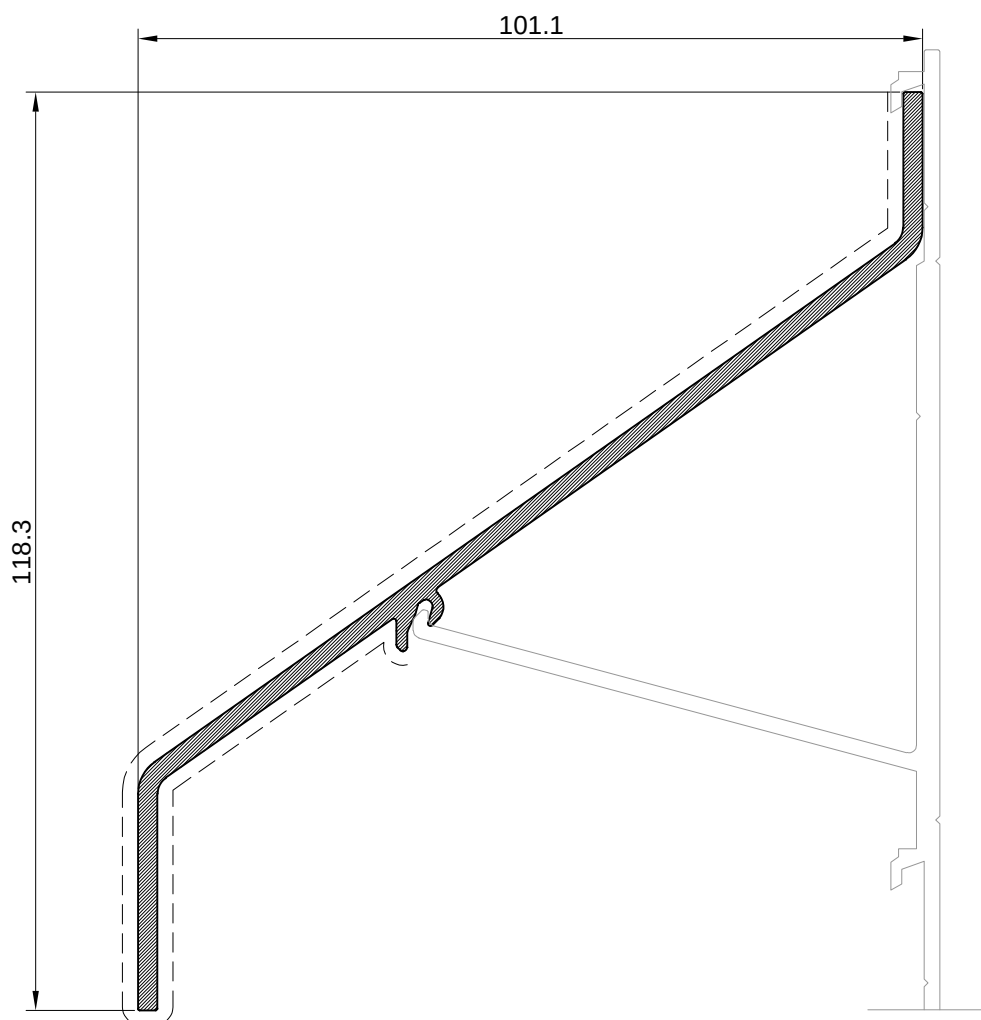
Brisolej		
Art.-Br.	F - 0848	
Težina	kg/m'	1.17
Opseg	mm	475.14
Moment inercije	I _x (cm ⁴)	58.28
	I _y (cm ⁴)	66.01
	W _x (cm ³)	7.71
	W _y (cm ³)	13.03
Dužina isporuke	mm	6500



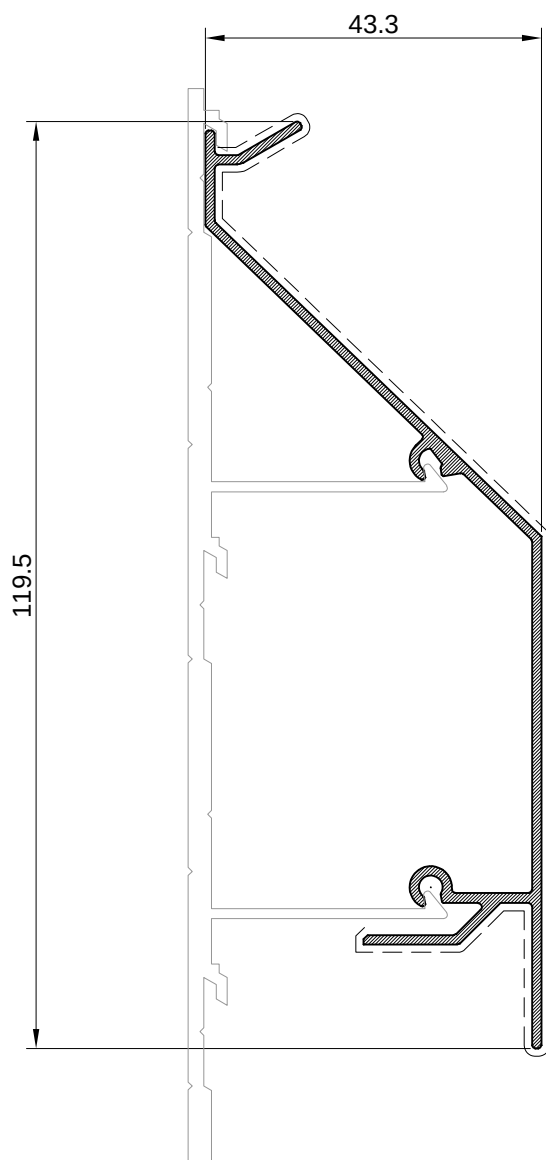
Brisolej		
Art.-Br.	F - 1356	
Težina	kg/m'	0.61
Opseg	mm	372.93
Moment inercije	I _x (cm ⁴)	30.88
	I _y (cm ⁴)	4.13
	W _x (cm ³)	5.01
	W _y (cm ³)	1.53
Dužina isporuke	mm	6500



Brisolej		
Art.-Br.	F - 0814	
Težina	kg/m'	0.3
Opseg	mm	180.32
Moment inercije	I _x (cm ⁴)	0.07
	I _y (cm ⁴)	4.5
	W _x (cm ³)	0.08
	W _y (cm ³)	1.28
Dužina isporuke	mm	6500

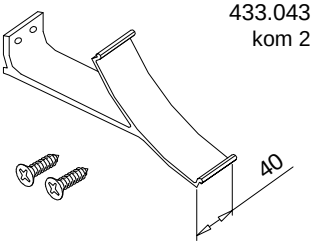
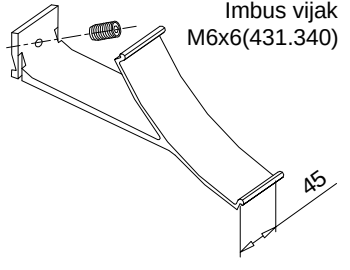
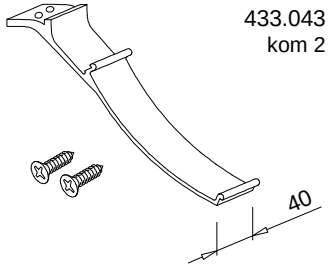
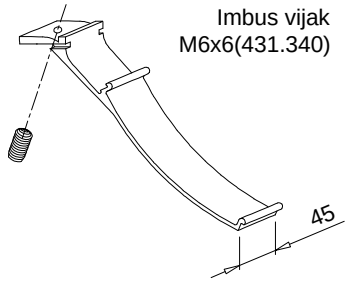
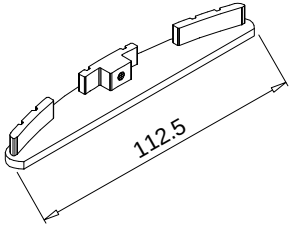
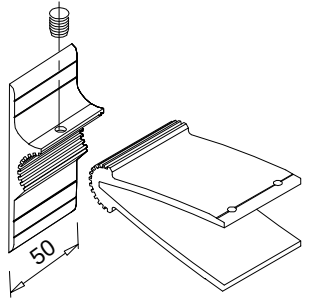


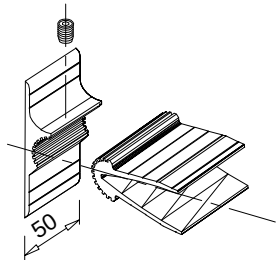
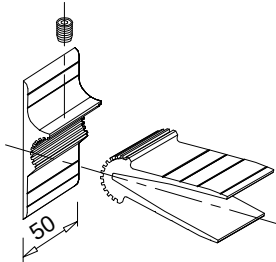
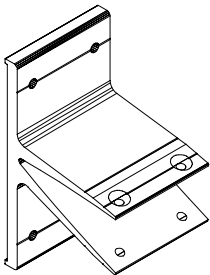
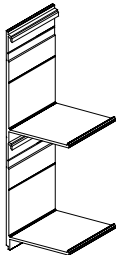
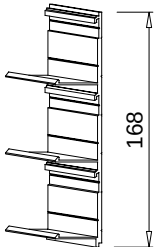
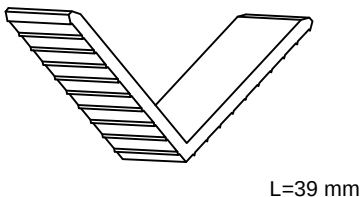
Brisolej		
Art.-Br.	F - 1361	
Težina	kg/m'	1.18
Opseg	mm	358.65
Moment inercije	I _x (cm ⁴)	39.81
	I _y (cm ⁴)	53.76
	W _x (cm ³)	6.59
	W _y (cm ³)	9.95
Dužina isporuke	mm	6500

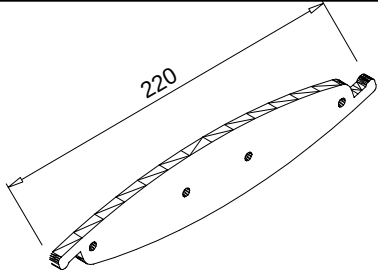
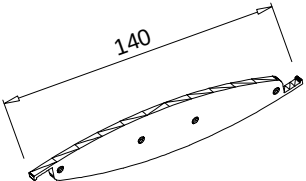
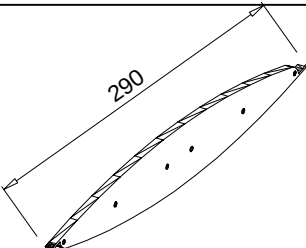
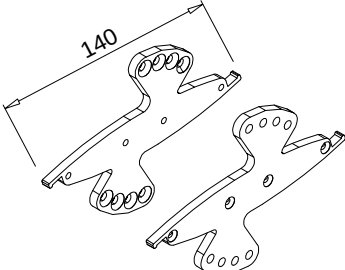
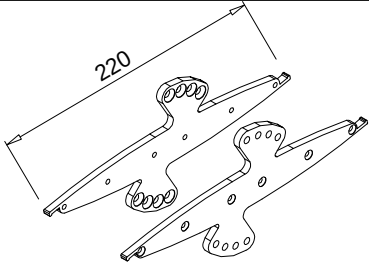
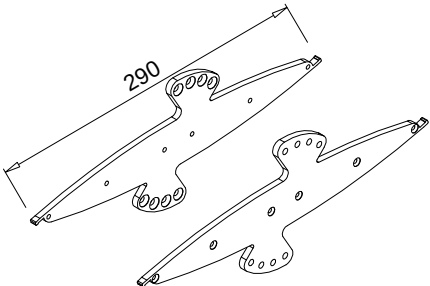


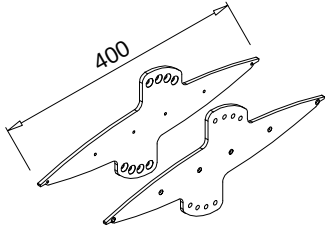
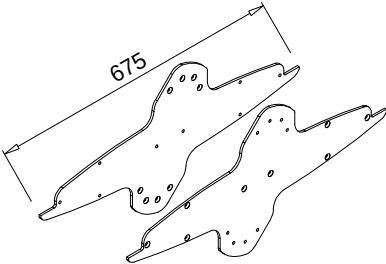
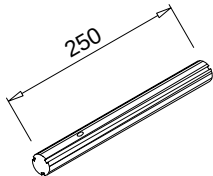
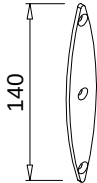
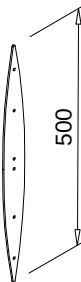
Brisolej		
Art.-Br.	F - 1501	
Težina	kg/m'	0.65
Opseg	mm	388.15
Moment inercije	I _x (cm ⁴)	32.03
	I _y (cm ⁴)	4.96
	W _x (cm ³)	5.16
	W _y (cm ³)	1.72
Dužina isporuke	mm	6500

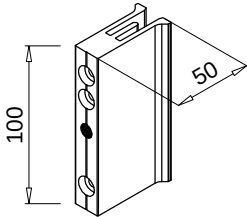
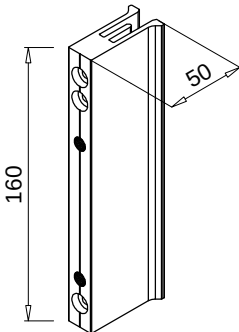
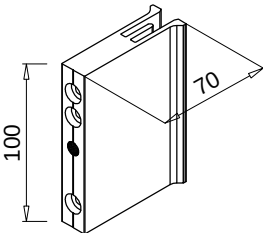
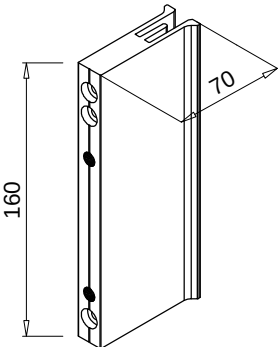
Vezni elementi

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
521.115	 433.043 kom 2	- Držać profila lamele - Stara oznaka: MF-1011/40 - Ugradnja bez profila vodilice	Al	
521.116	 Imbus vijak M6x6(431.340)	- Držać profila lamele - Stara oznaka: MF-1011/45 - Ugradnja na profil vodilicu	Al	
521.117	 433.043 kom 2	- Držać profila lamele - Stara oznaka: MF-1011/40-A - Ugradnja bez profila vodilice	Al	
521.118	 Imbus vijak M6x6(431.340)	- Držać profila lamele - Stara oznaka: MF-1011/45-A - Ugradnja na profil vodilicu	Al	
373.026	 112.5	- Bočni čep za lamelu MF-1012 - Stara oznaka: 403.001	PVC	
521.192	 50	- Nosač profila lamele F-1487(290 mm)	Al	

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
521.120		- Držać profila lamele F-0770(140 mm) - Stara oznaka: DFB 50/14	Al	
521.119		- Nosač profila lamele F-0769(220 mm) - Stara oznaka: DFB 50	Al	
521.124		- Držać profila lamele F-0893(290 mm)	Al	
521.133		- Držać profila lamele F-1361	Al	
521.121		- Držać profila lamele - Stara oznaka: DFZ 50	Al	
710.148		- Kutna spojnica za komoru 39.5x4.8 - Stara oznaka: K-060971/39	Al	

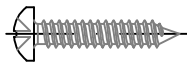
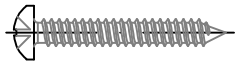
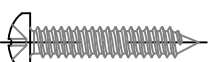
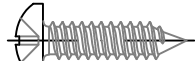
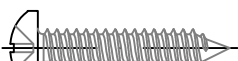
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
391.062		- Bočni poklopac za lamelu F-0769 (220 mm)	Al.	
391.034		- Bočni poklopac za lamelu F-0770 (140 mm) - Stara oznaka: D-140/A	Al	
391.038		- Bočni poklopac za lamelu F-0893 (290 mm)	Al	
521.134		- Set bočnih držača za lamelu F-0770 (140 mm) - Par (L+D)	Al	
521.135		- Set bočnih držača za lamelu F-0769 (220 mm) - Par (L+D)	Al	
521.136		- Set bočnih držača za lamelu F-0893 (290 mm) - Par (L+D)	Al	

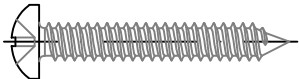
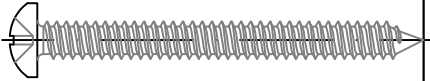
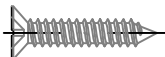
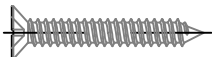
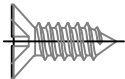
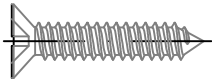
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
521.137		- Set bočnih držača za lamelu F-0768 (400 mm) - Par (L+D)	Al	
521.138		- Set bočnih držača za brisolej 675 mm - Par (L+D)	Al	
391.063		Spojnica brisoleja	Al	
431.313		M 4x5 DIN 914		
391.232		- Bočni poklopac za lamelu NP-4827 (140 mm)	Al	
391.273		- Bočni poklopac za lamelu 500 mm - Radi se iz lima debljine 3 mm	Al	

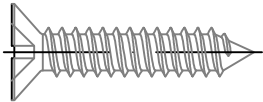
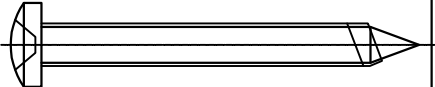
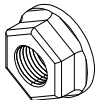
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
521.235		- Držać za vanjska sjenila 50 mm x100 mm	Al	
521.236		- Držać za vanjska sjenila 50 mm x160 mm	Al	
521.237		- Držać za vanjska sjenila 70 mm x100 mm	Al	
521.238		- Držać za vanjska sjenila 70 mm x160 mm	Al	

Dodaci

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
431.314		M 4x6 DIN 914	-	
431.329		M 5x10 DIN 914	-	
431.340		M 6x6 DIN 914	-	
434.008	FN4/8 Alu  	Zakovica	-	
434.003	FN3/8 Alu  	Zakovica	-	
434.007	FN4/6 Alu  	Zakovica	-	

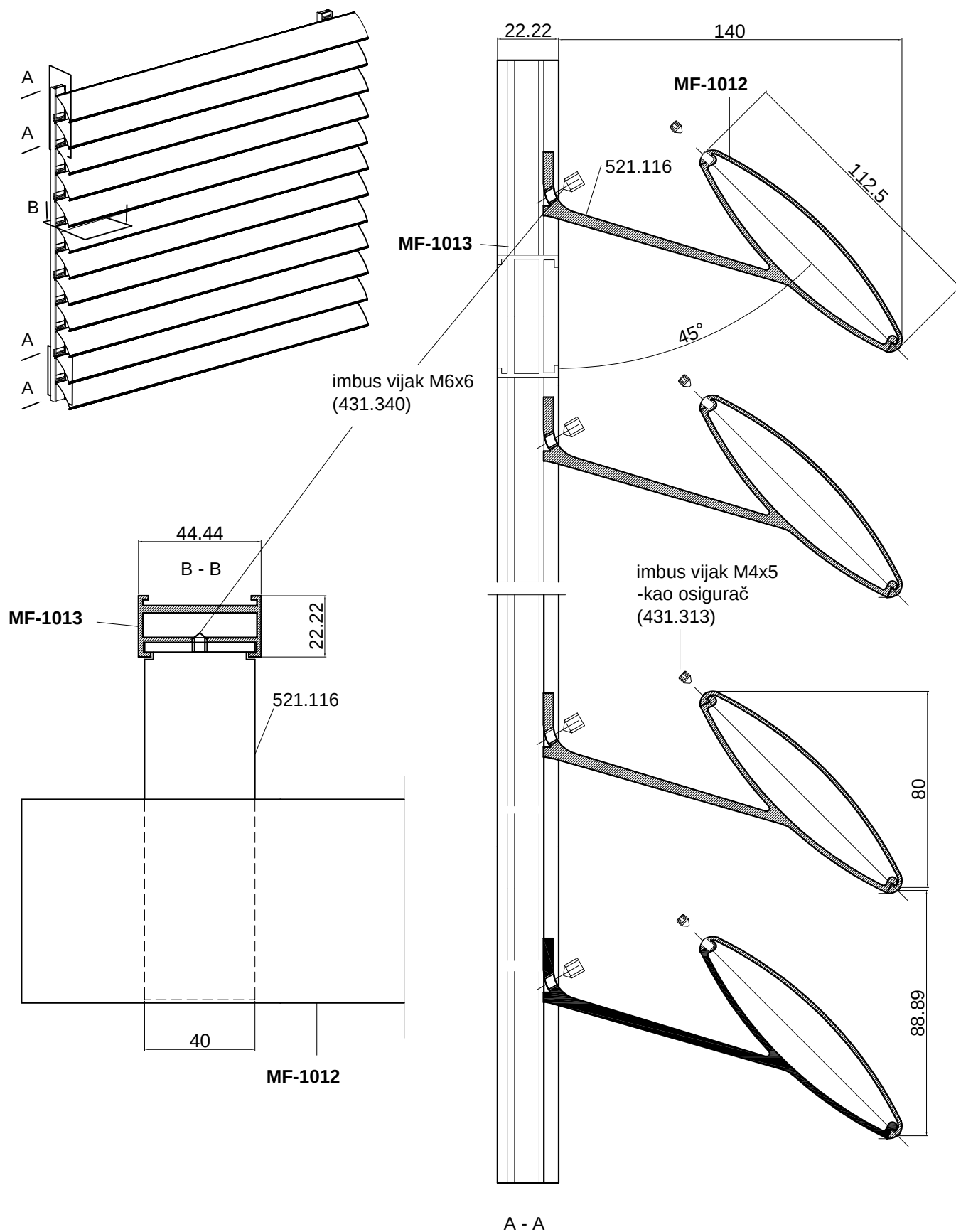
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
433.004		- Vijak 3.5x16 DIN 7981	Inox A2	
433.005		- Vijak 3.5x19 DIN 7981	Inox A2	
433.007		- Vijak 3.5x25 DIN 7981	Inox A2	
433.019		- Vijak 3.9x22 DIN 7981	Inox A2	
433.043		- Vijak 4.8x19 DIN 7981	Inox A2	
433.045		- Vijak 4.8x25 DIN 7981	Inox A2	

Oznaka	Izgled-presjek	Opis	Materijal	Napomena
433.046		- Vijak 4.8x32 DIN 7981	Inox A2	
433.049		- Vijak 4.8x50 DIN 7981	Inox A2	
433.093		- Vijak 3.5x19 DIN 7982	Inox A2	
433.095		- Vijak 3.5x25 DIN 7982	Inox A2	
433.128		- Vijak 4.8x13 DIN 7982	Inox A2	
433.132		- Vijak 4.8x25 DIN 7982	Inox A2	

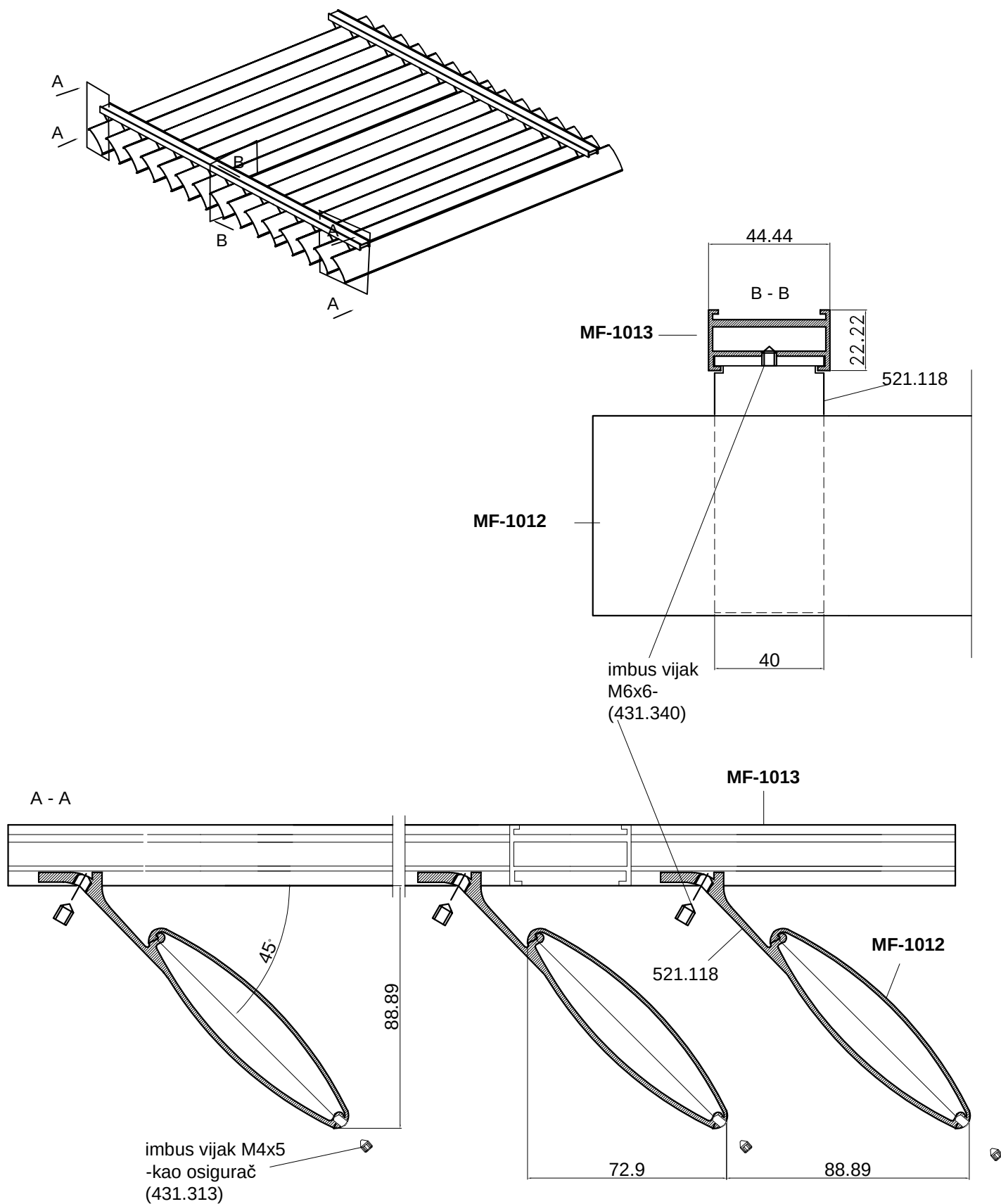
Oznaka	Izgled-presjek	Opis	Materijal	Napomena
433.165		- Vijak 6.3x32 DIN 7982	Inox A2	
433.066		- Vijak 5.5x60 DIN 7981	Inox A2	
432.047		- Matica sa priрубnicom DIN 6923 M8	Inox A2	
432.127		- Osigurač matice M8 DIN 439; radi DITRX, -koristi se kod harmonika otvora GH-45	Inox A2	
			-	

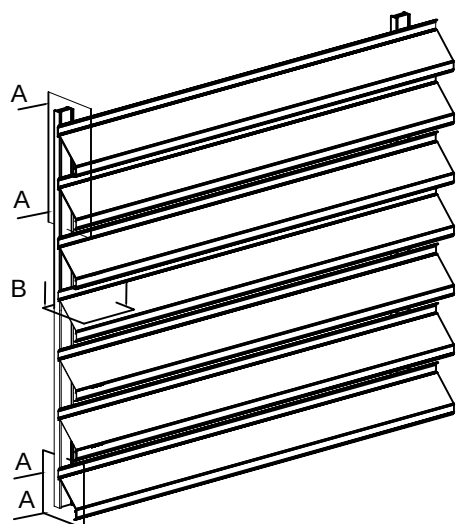
Presjeci

PRESJEK LAMELA UGRAĐENIH PO OKOMICI

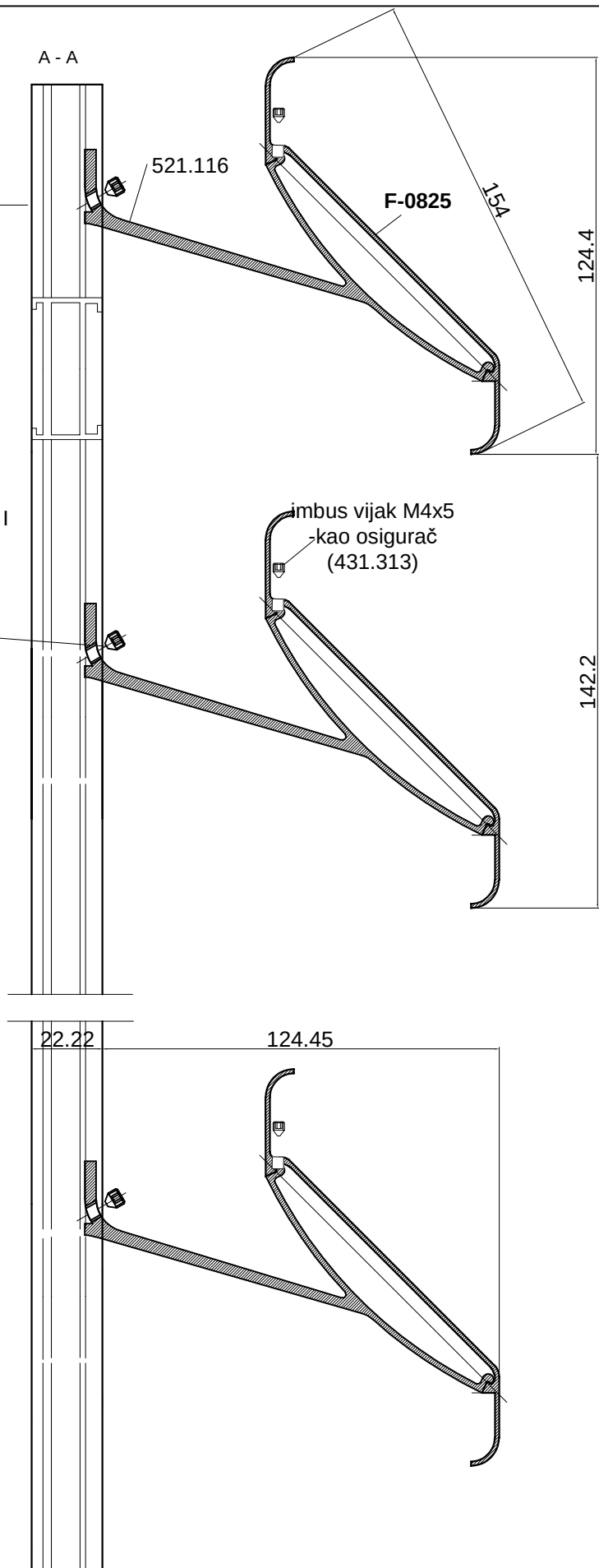
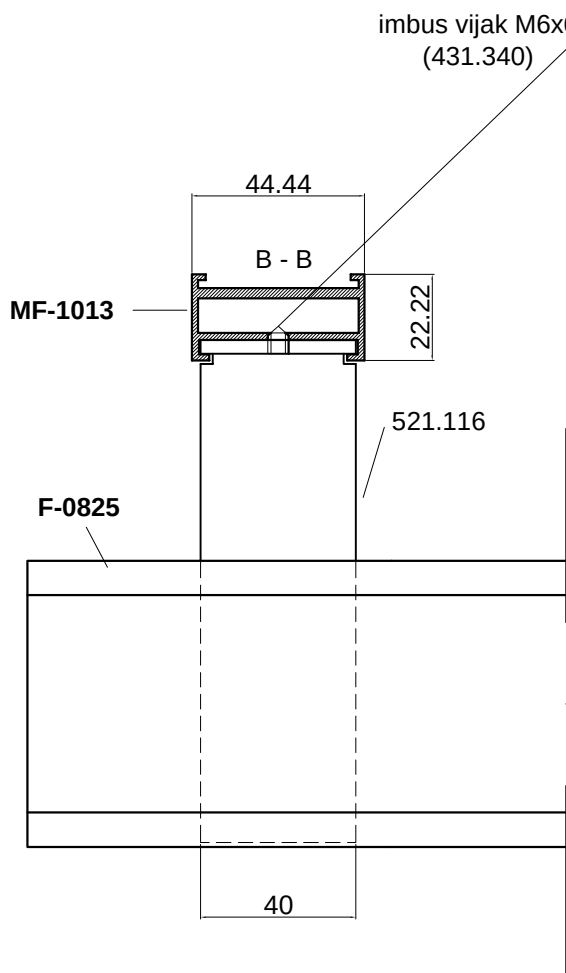


PRESJEK LAMELA UGRAĐENIH PO VODORAVNICI



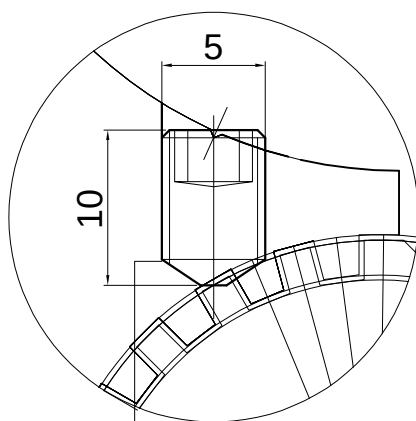
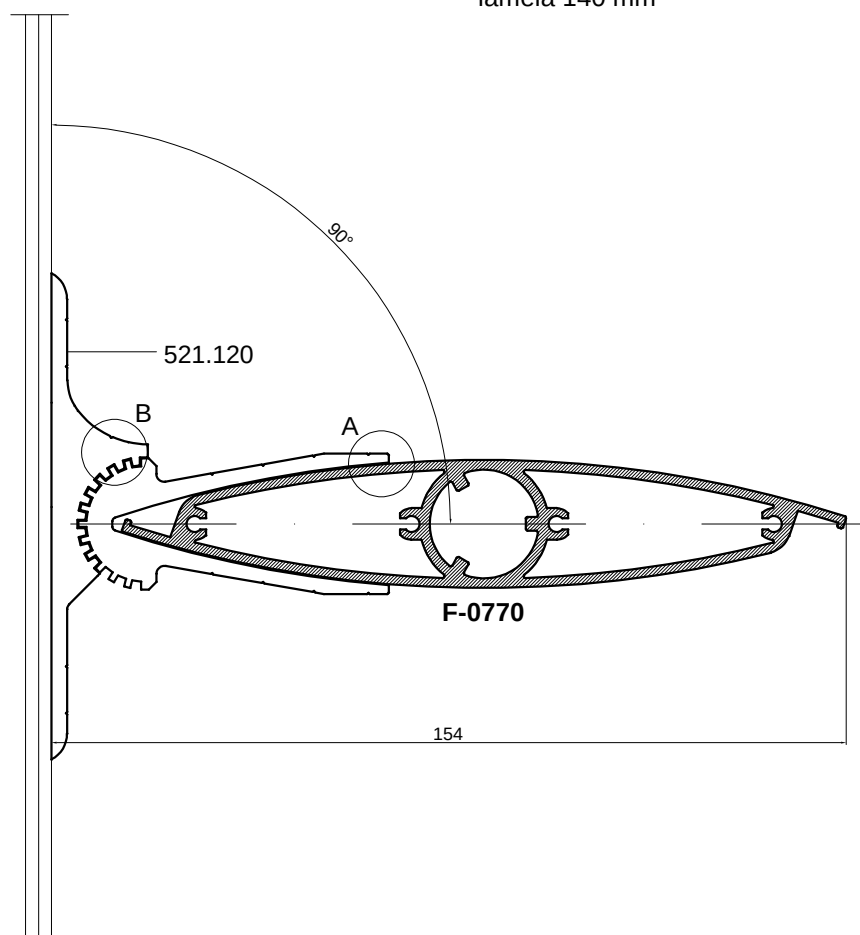


PRESJEK LAMELA UGRAĐENIH PO OKOMICI

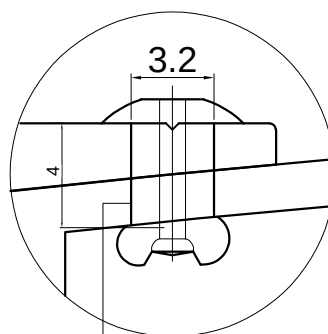


Presjeci

- lamela 140 mm

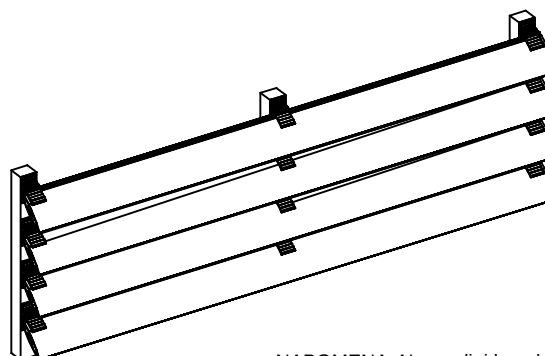
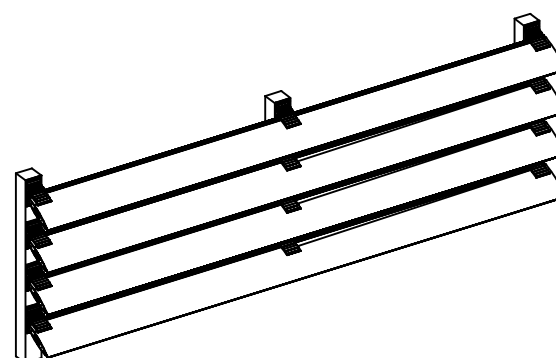
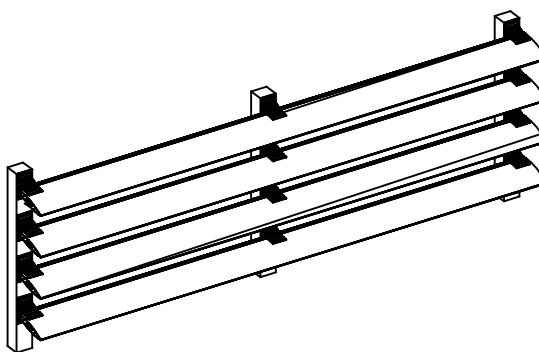
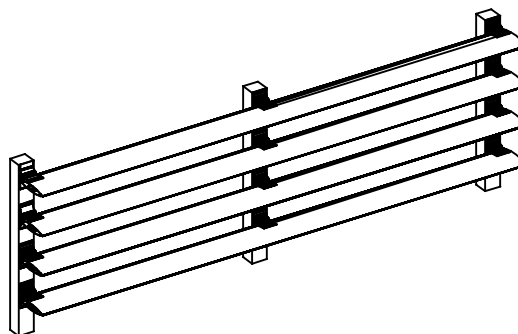
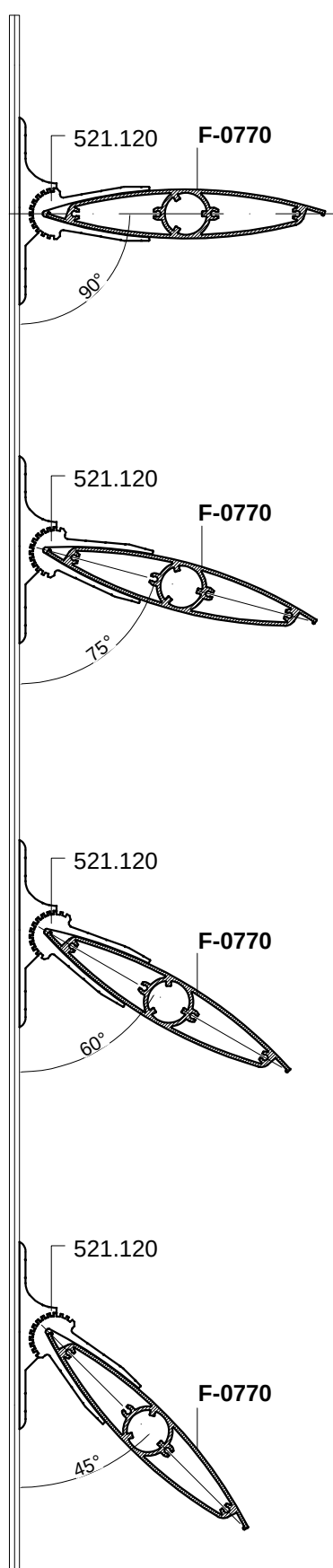
Detalj B
M 5:1

Fiksiranje odabranog položaja
nosivih elemenata -
imbus vijkom (431.329)

Detalj A
M 5:1

Veza lamele F-0770 s fiksnim
prihvatnim nosivim elementom
521.120 - zakovicom (434.003)

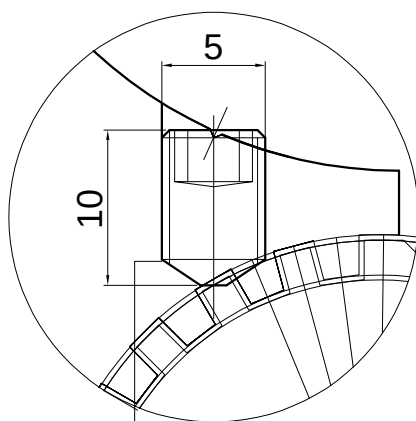
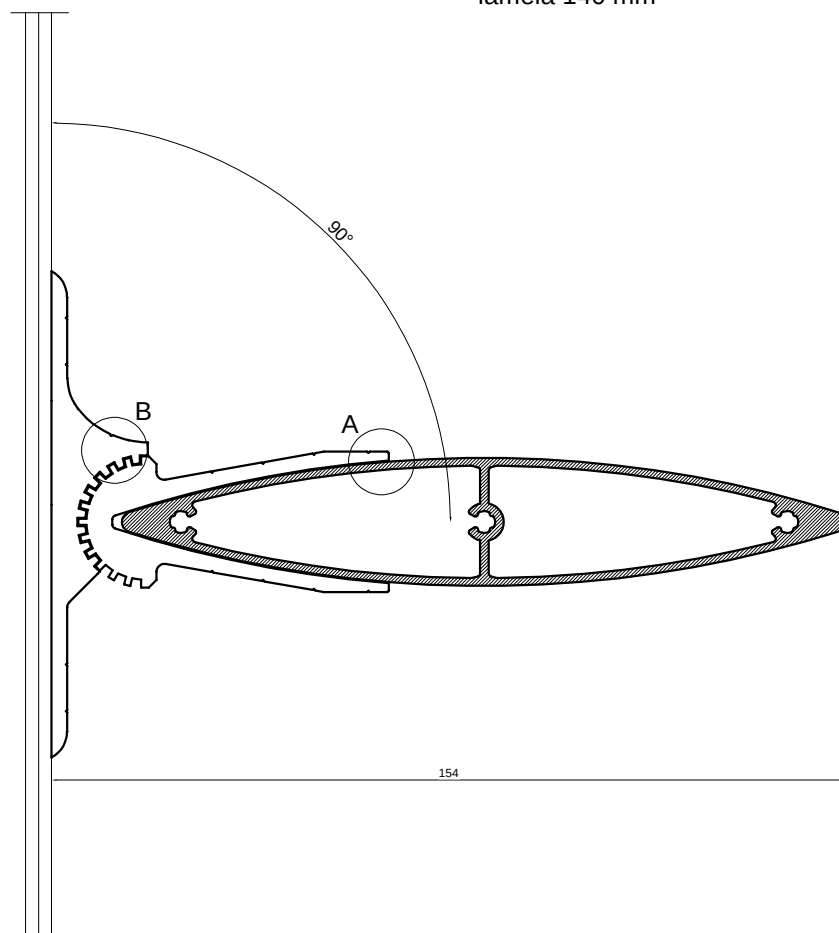
MOGUĆI POLOŽAJI LAMELA(140 mm) - 45°-90°



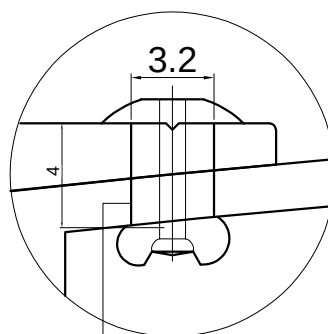
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

Presjeci

- lamela 140 mm

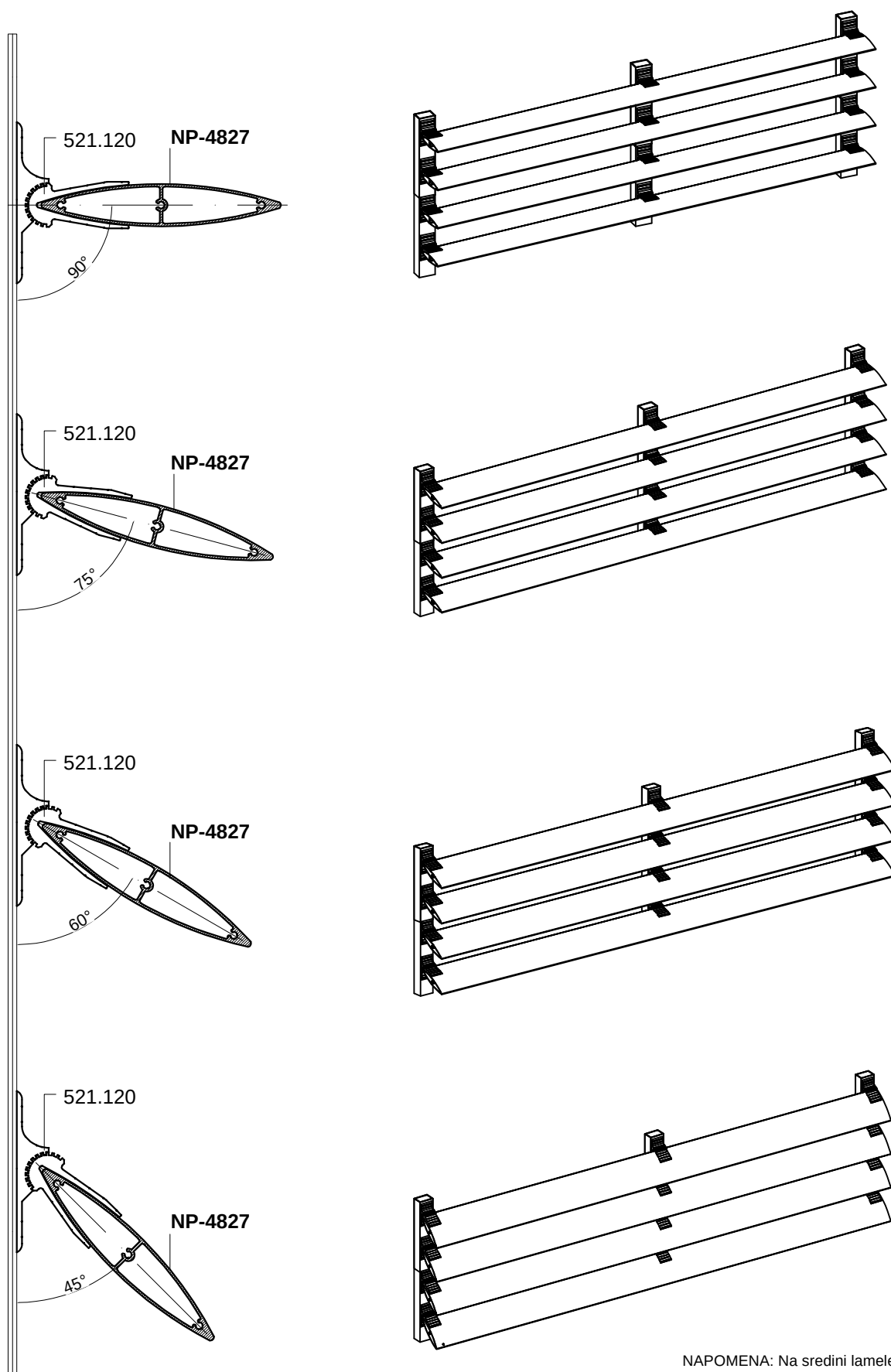
Detalj B
M 5:1

Fiksiranje odabranog položaja
nosivih elemenata -
imbus vijkom (431.329)

Detalj A
M 5:1

Veza lamele F-0770 s fiksiranim
prihvatnim nosivim elementom
521.120 - zakovicom (434.003)

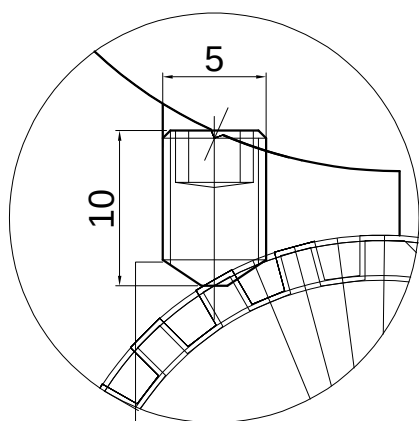
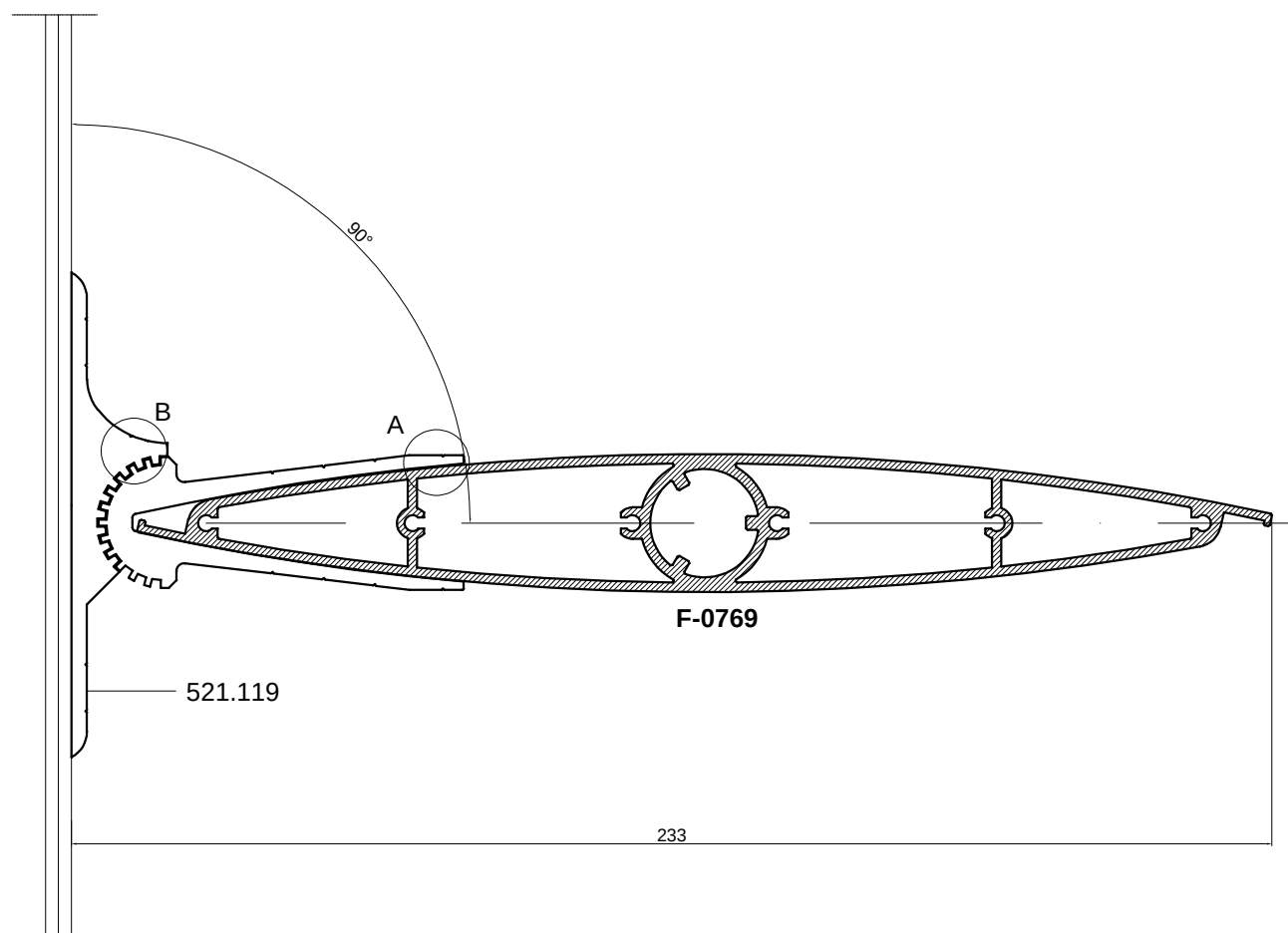
MOGUĆI POLOŽAJI LAMELA(140 mm) - 45°-90°



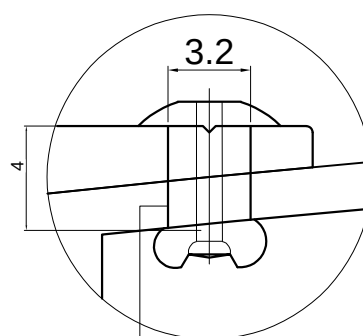
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

Presjeci

- lamela 220 mm

Detalj B
M 5:1

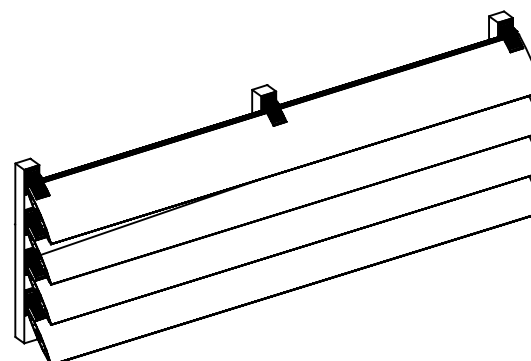
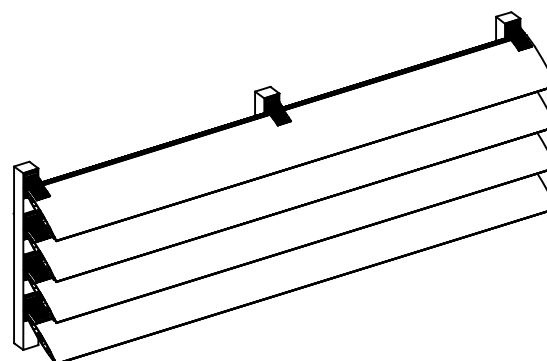
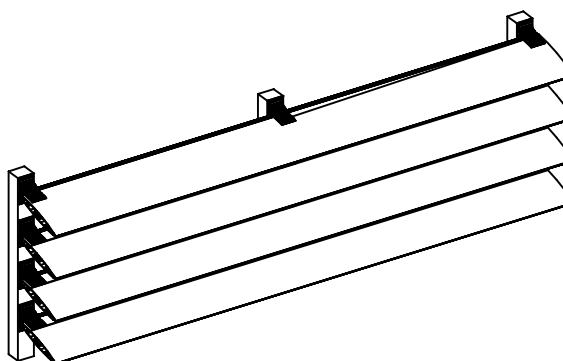
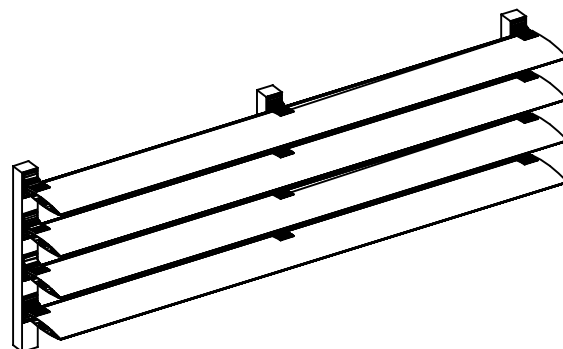
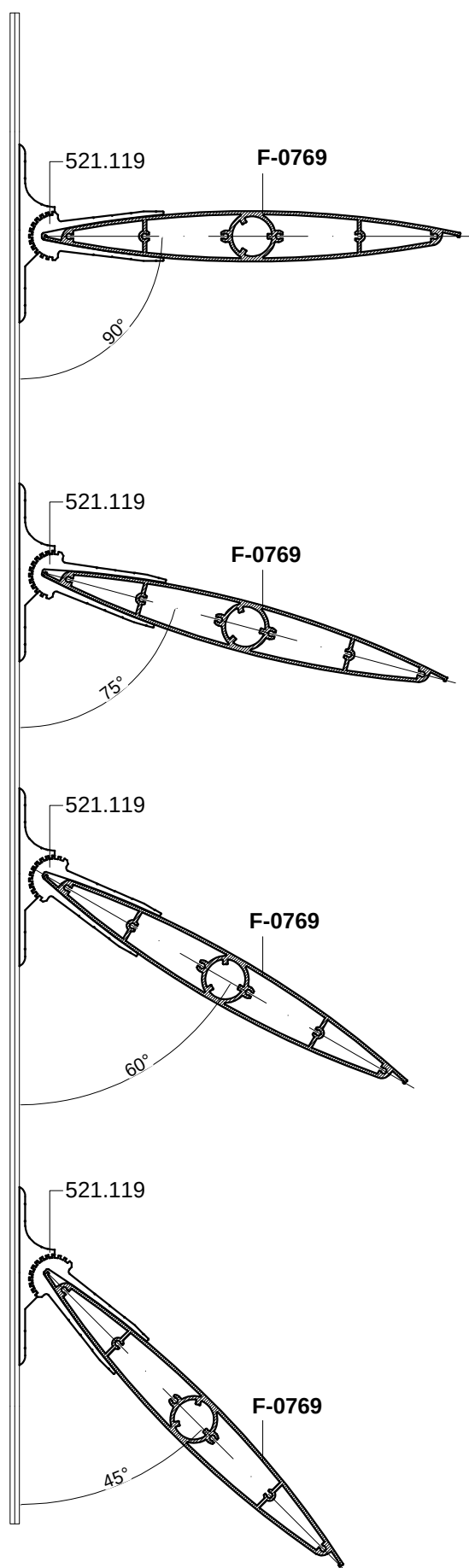
Fiksiranje odabranog položaja
nosivih elemenata -
imbus vijkom 431.329

Detalj A
M 5:1

Veza lamele F-0769 s fiksnim
prihvatnim nosivim elementom
521.119- zakovicom (434.003)

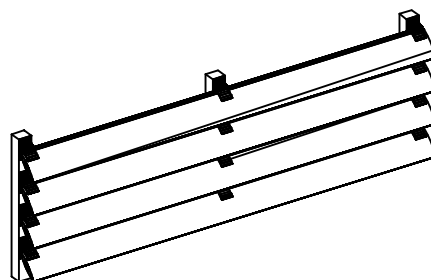
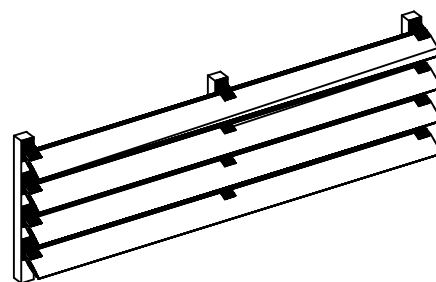
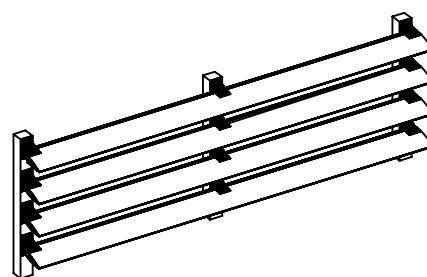
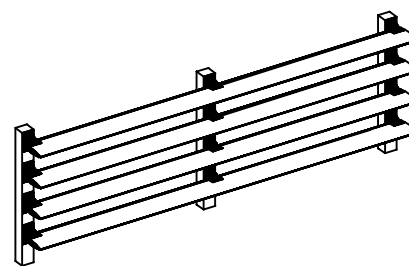
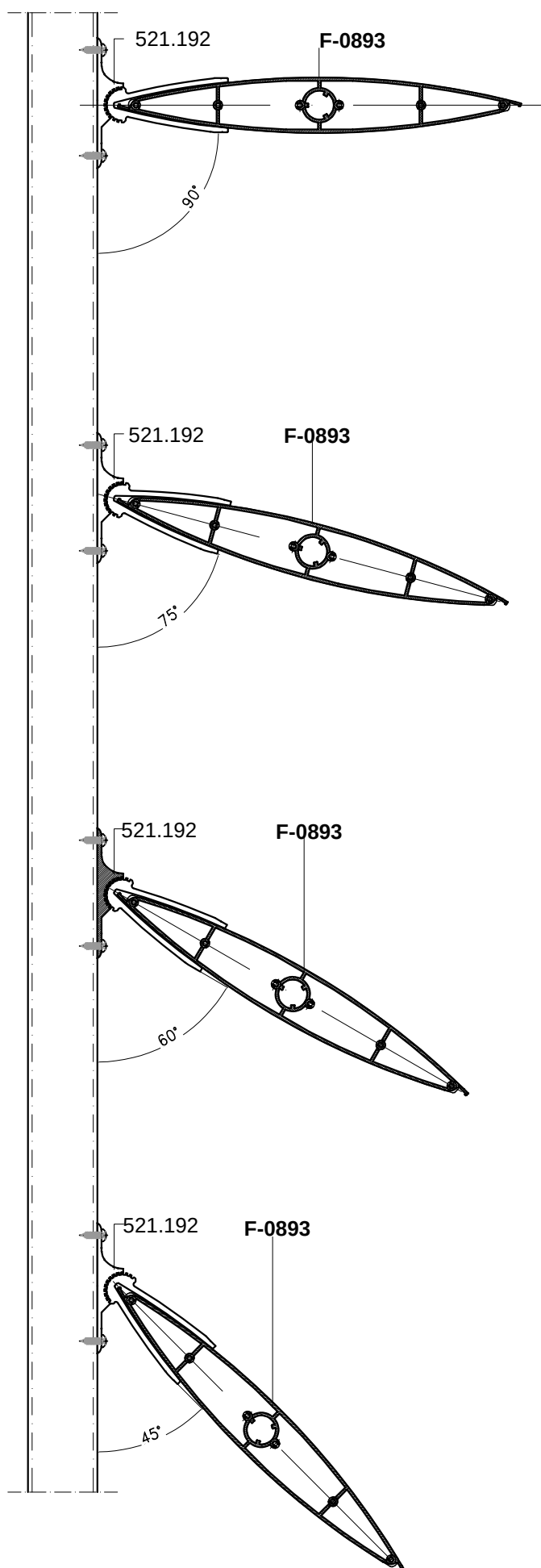
NAPOMENA: Na sredini lamele uraditi
otvor za odvod kapljevina

MOGUĆI POLOŽAJI LAMELA (220 mm) - 45°-90°



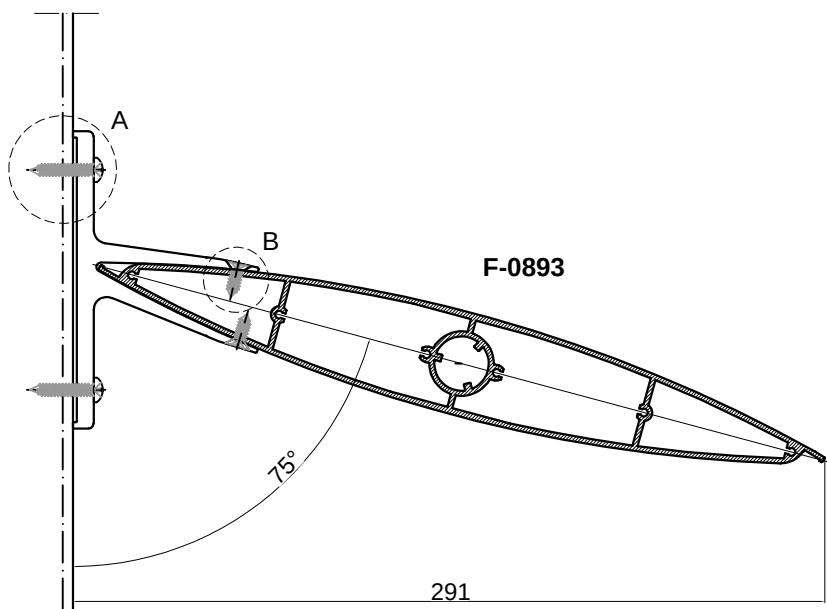
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 290 mm (F-0893)

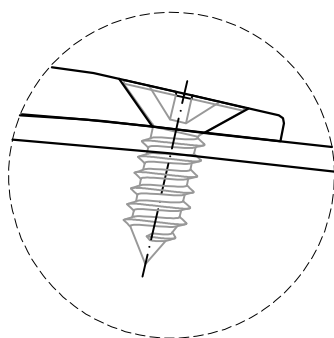


NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 290 mm

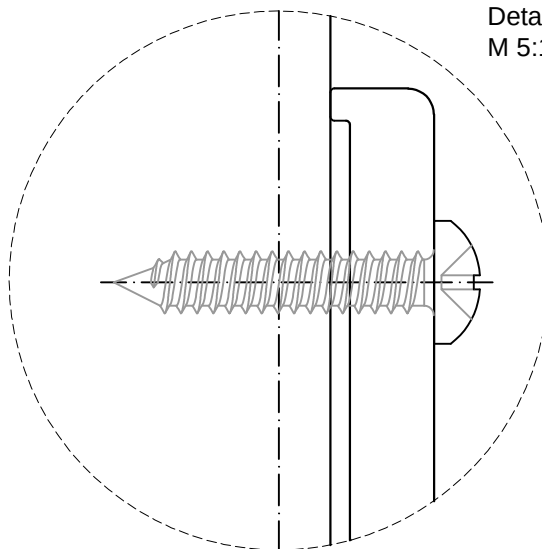


Detalj B
M 5:1



Veza lamele F-0893 sa držačem vijkom
433.128

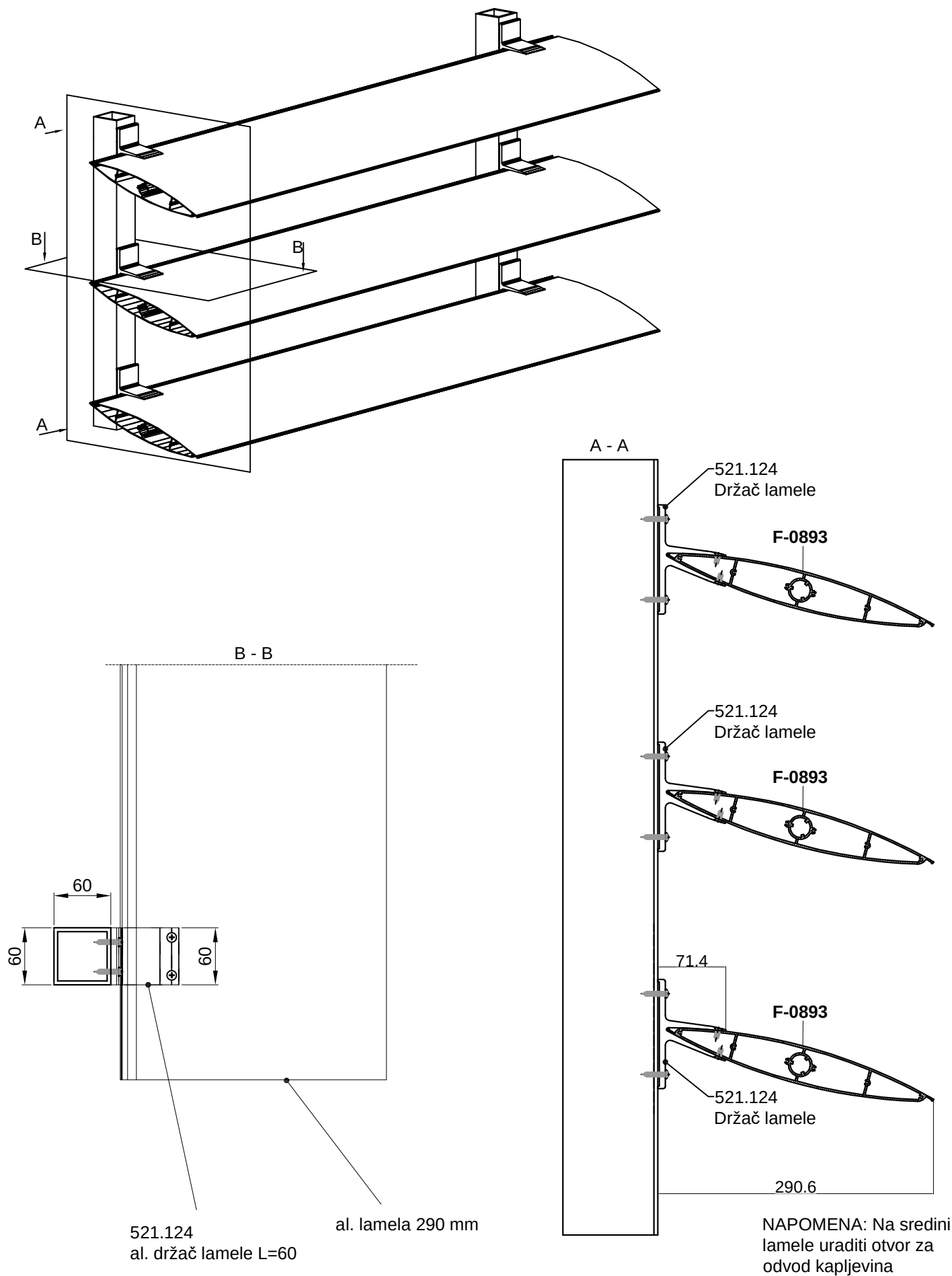
Detalj A
M 5:1



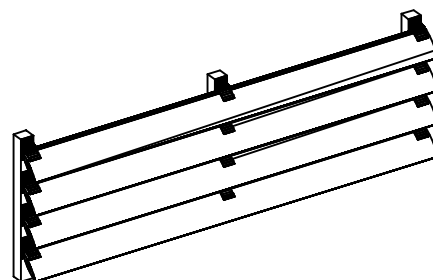
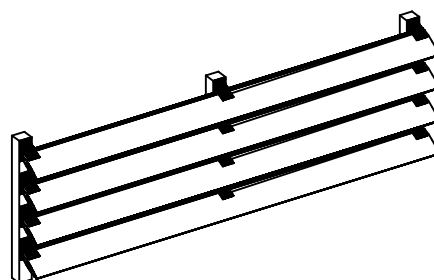
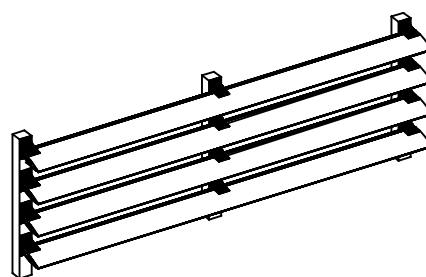
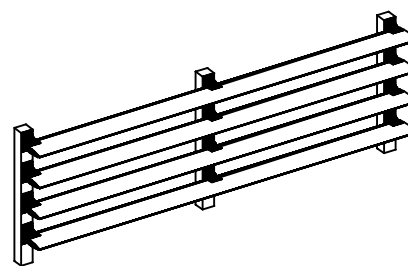
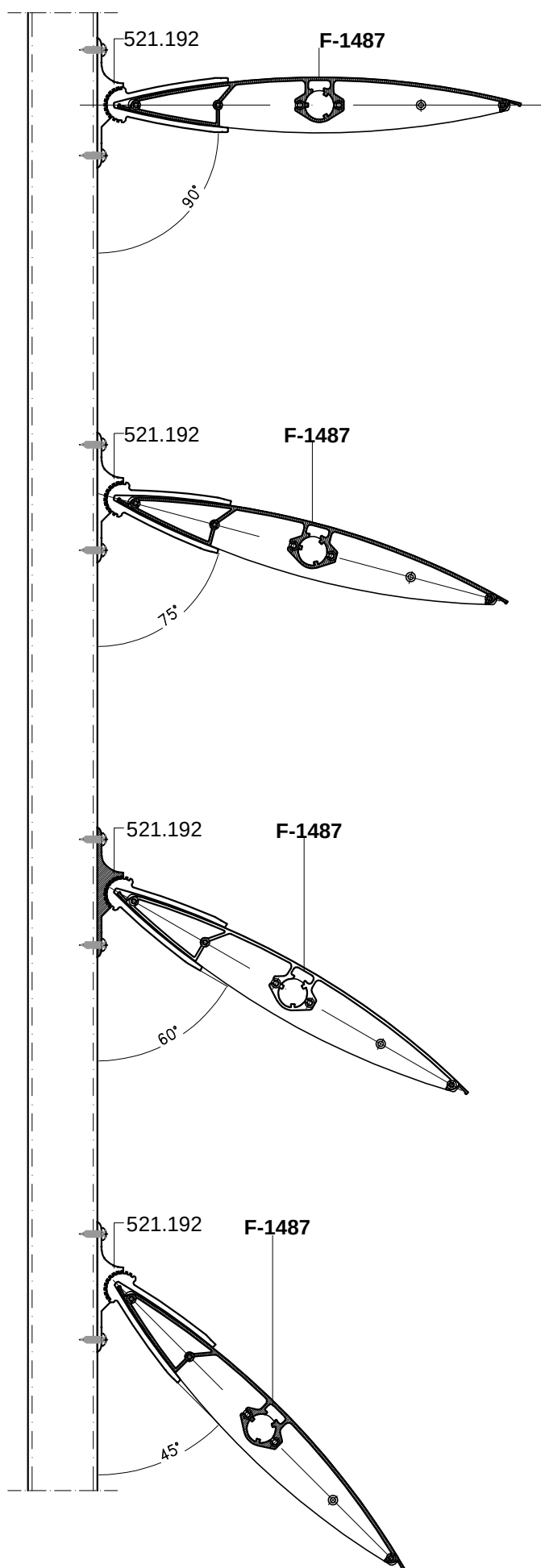
Veza držača profila sa podlogom vijkom
433.045

NAPOMENA: Na sredini lamele uraditi
otvor za odvod kapljevina

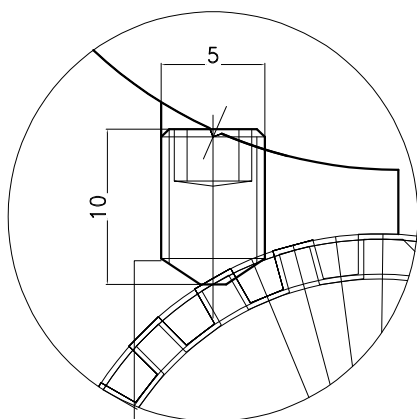
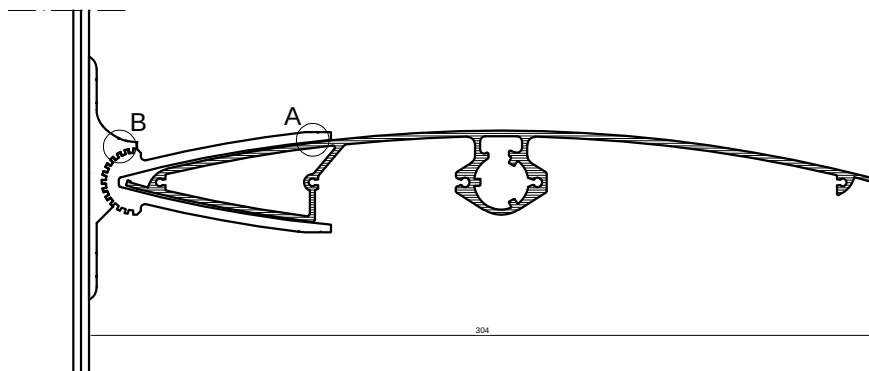
- lamela 290 mm (F-0893)



- lamela 290 mm (F-1487)

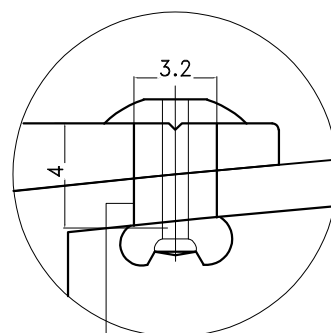


- lamela 290 mm F-1487



Detalj B
M 5:1

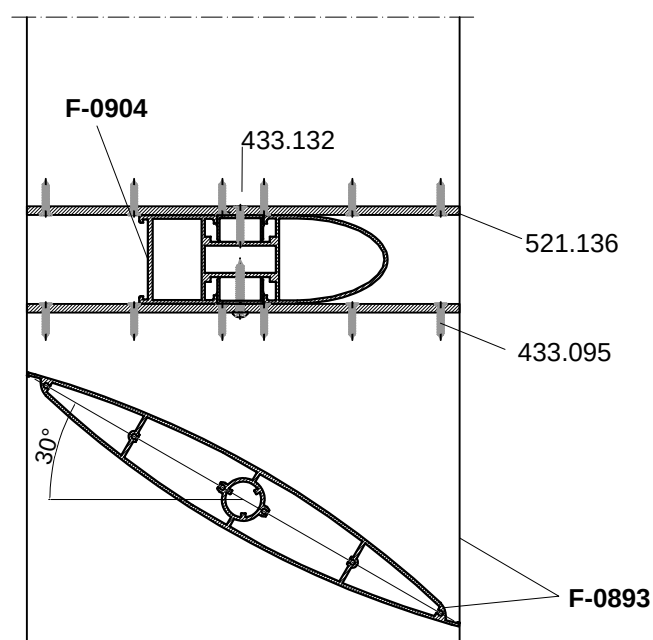
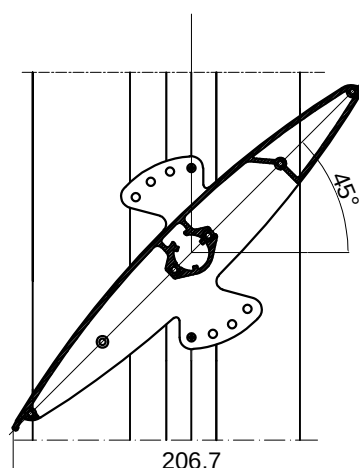
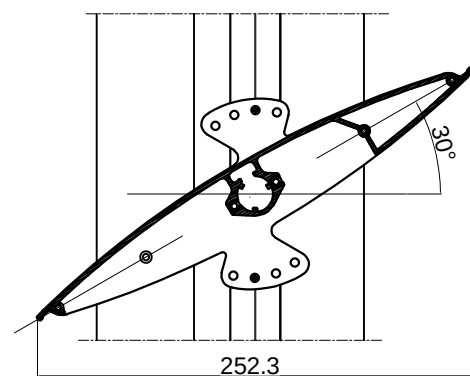
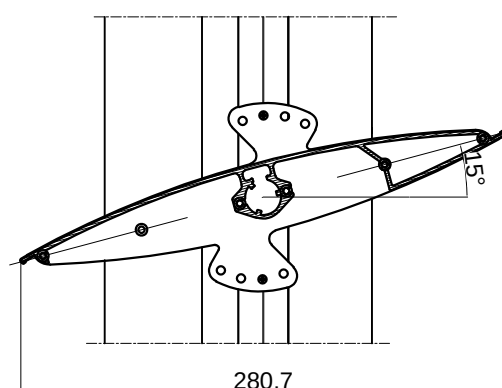
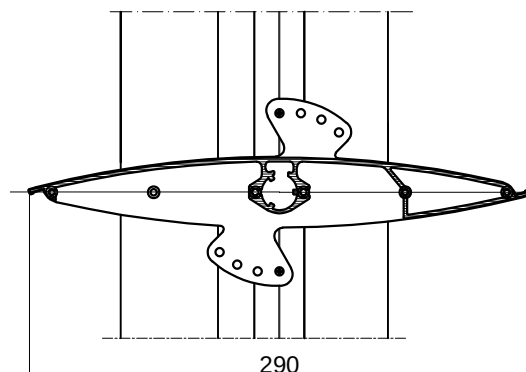
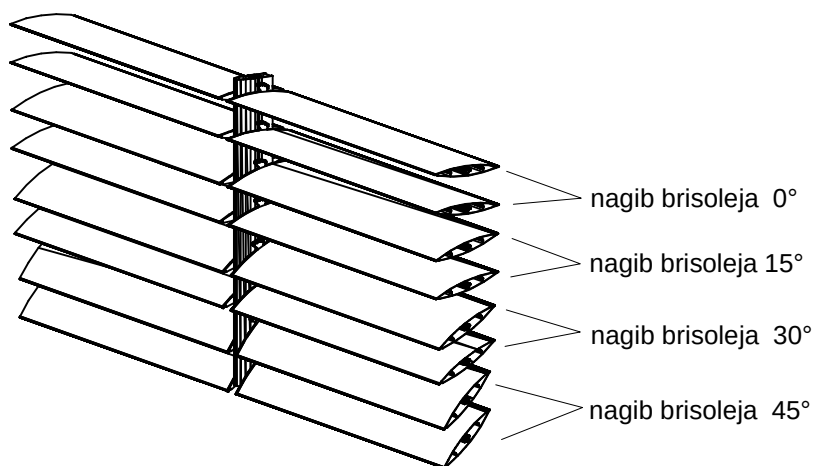
Fiksiranje odabranog položaja
nosivih elemenata -
imbus vijkom (431.329)



Detalj A
M 5:1

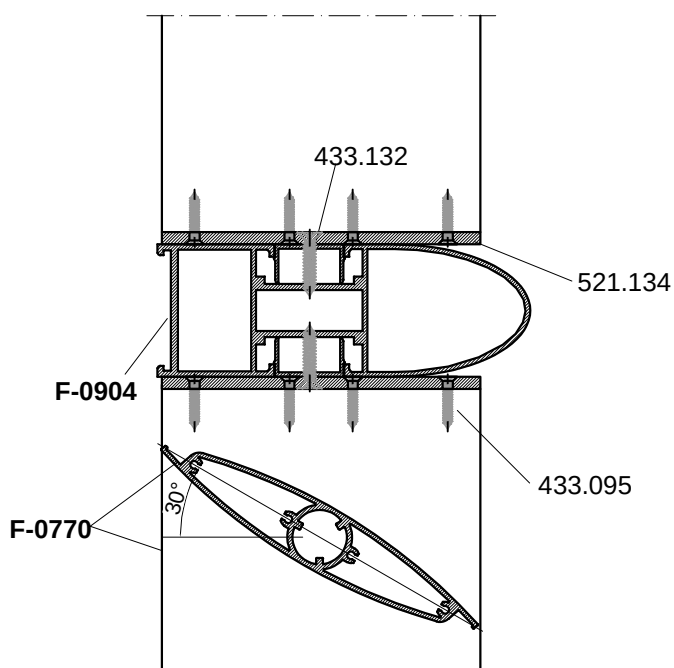
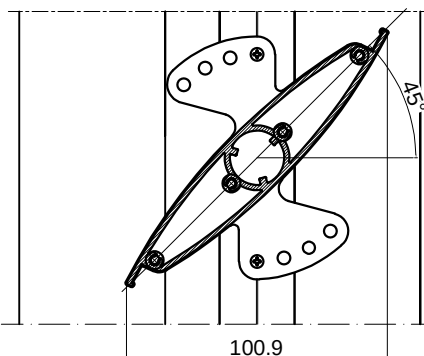
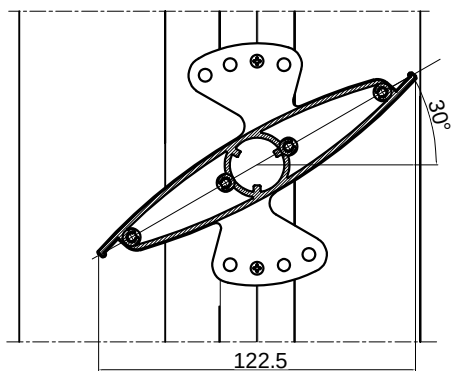
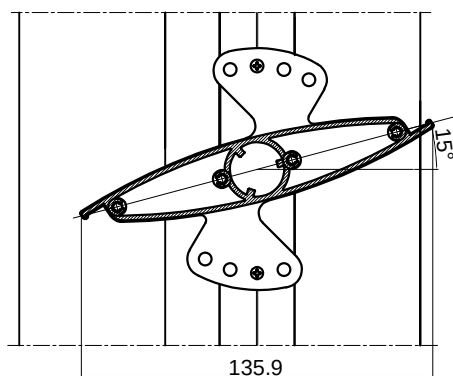
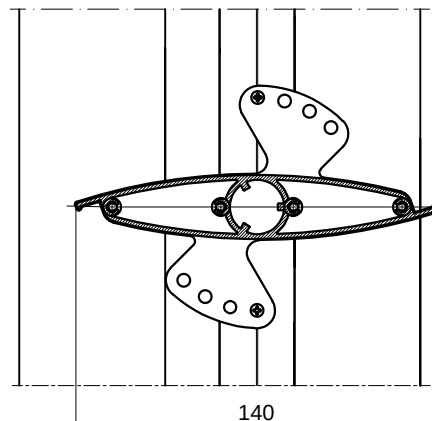
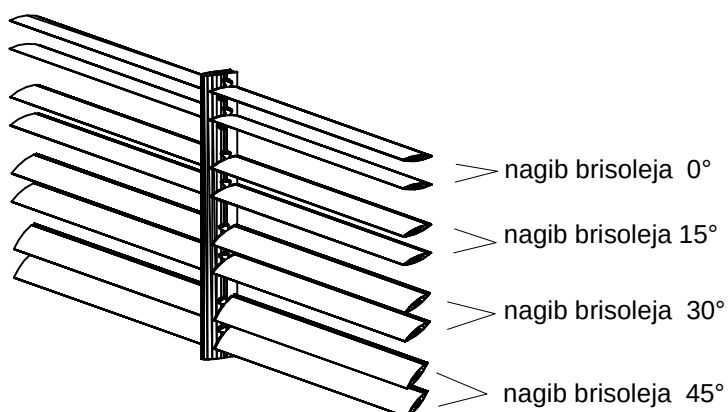
Veza lamele F-1487 s fiksim
prihvatnim nosivim elementom
521.192 - zakovicom (434.008)

- lamela 290 mm (F-1487)



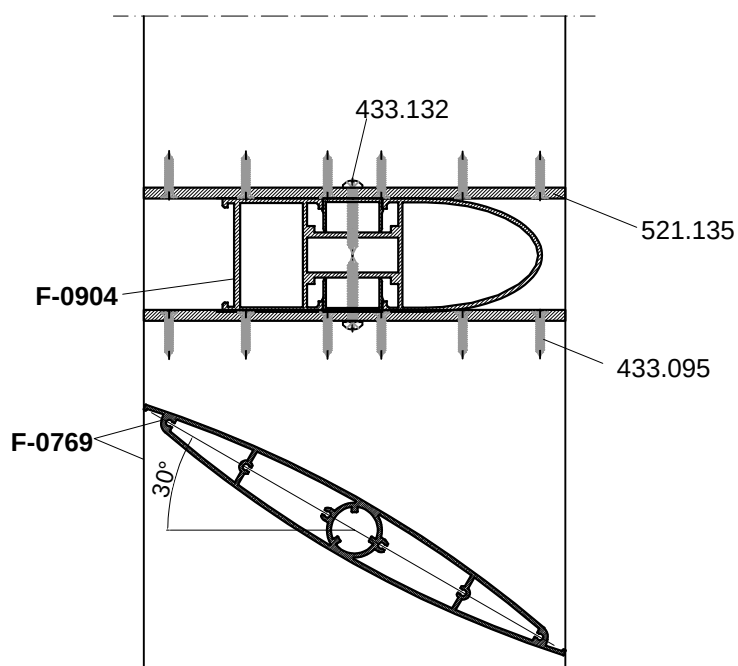
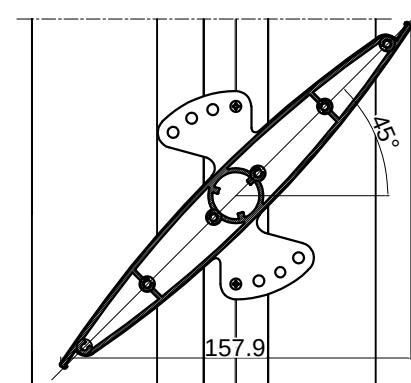
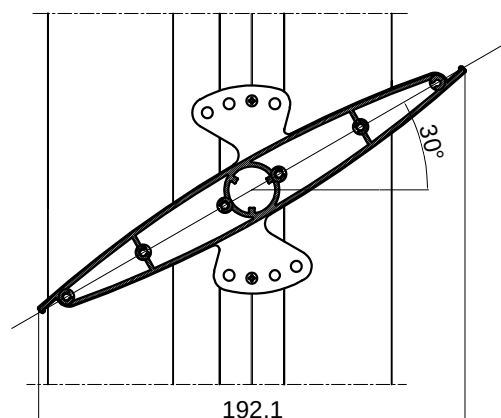
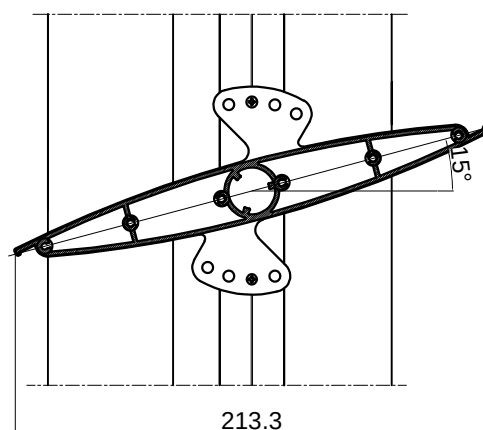
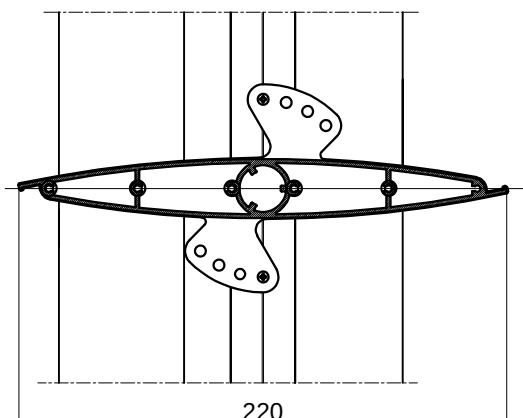
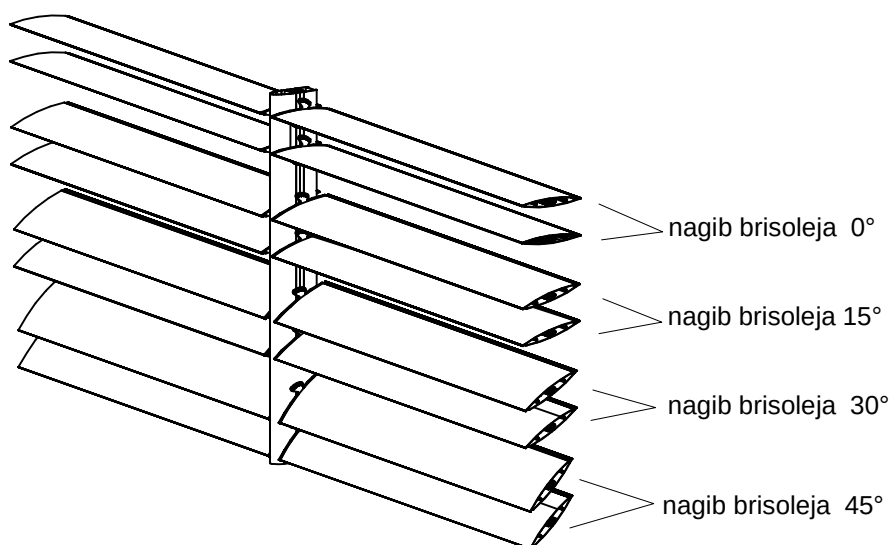
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 140 (F-0770)



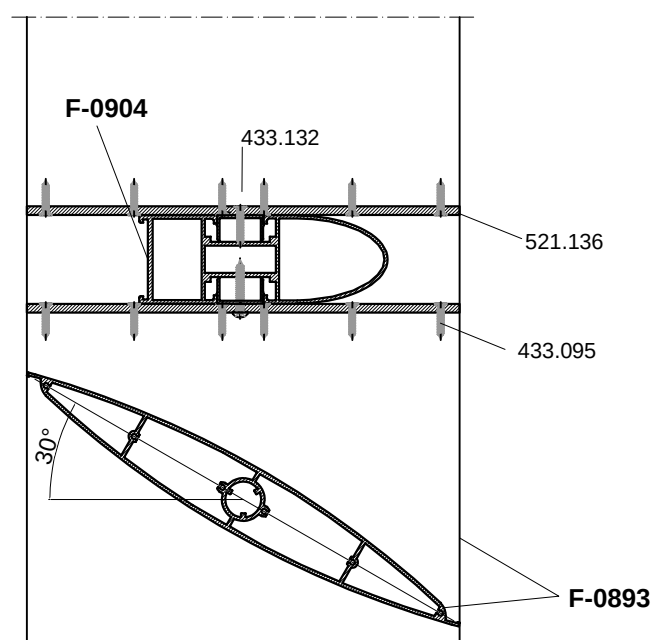
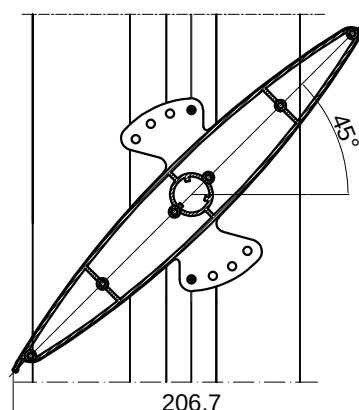
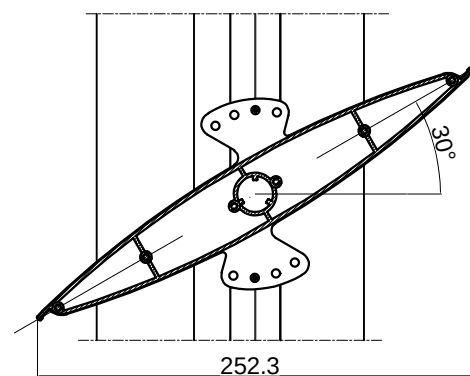
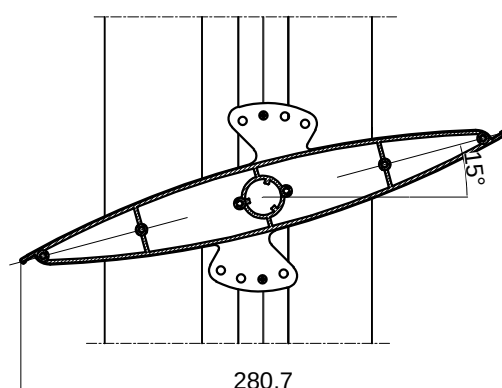
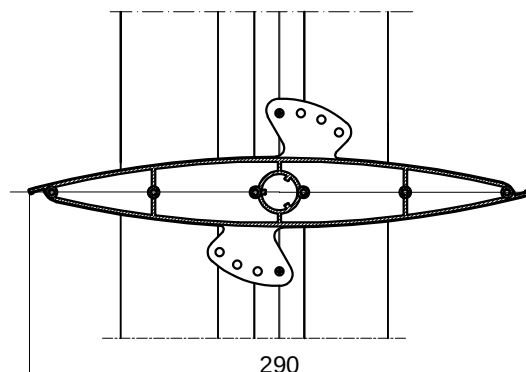
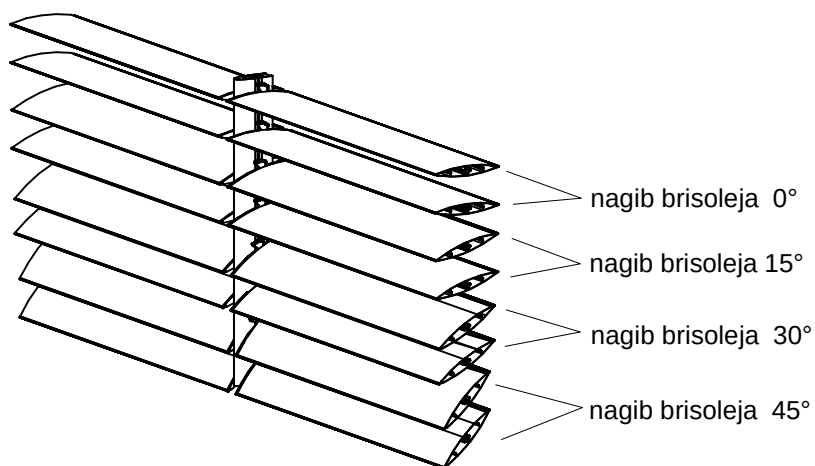
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 220 mm (F-0769)



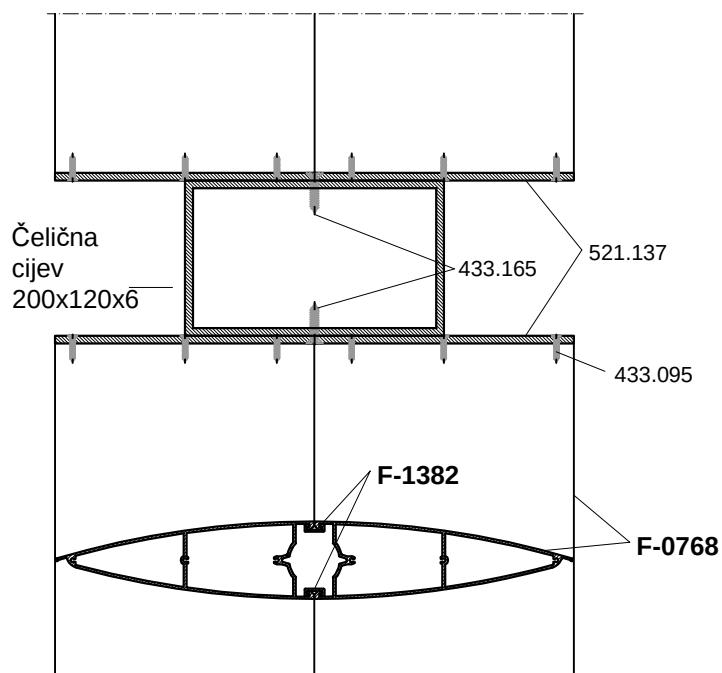
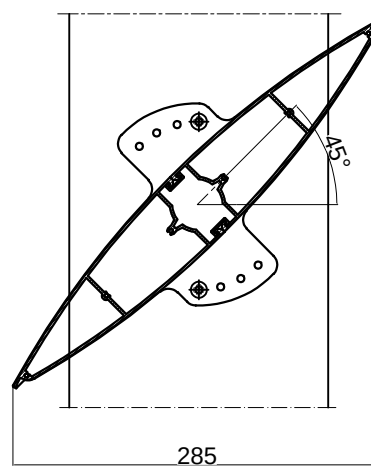
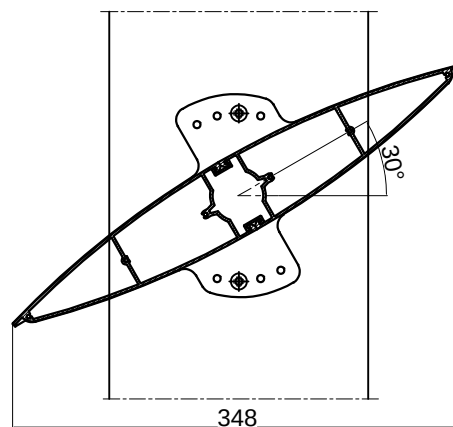
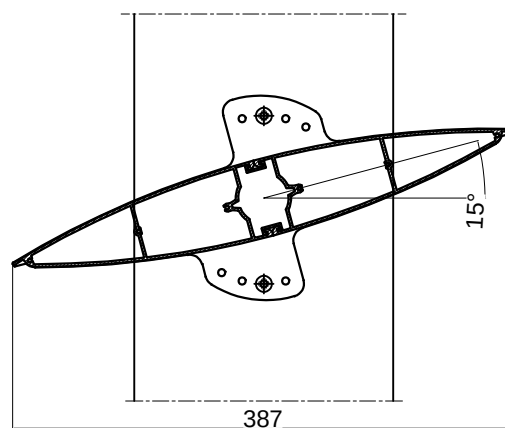
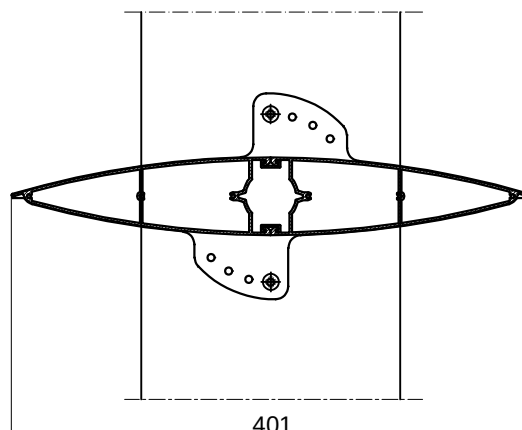
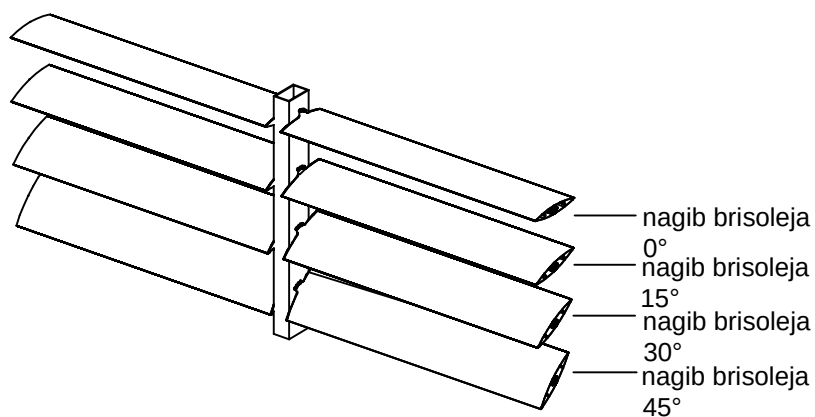
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 290 mm (F-0893)



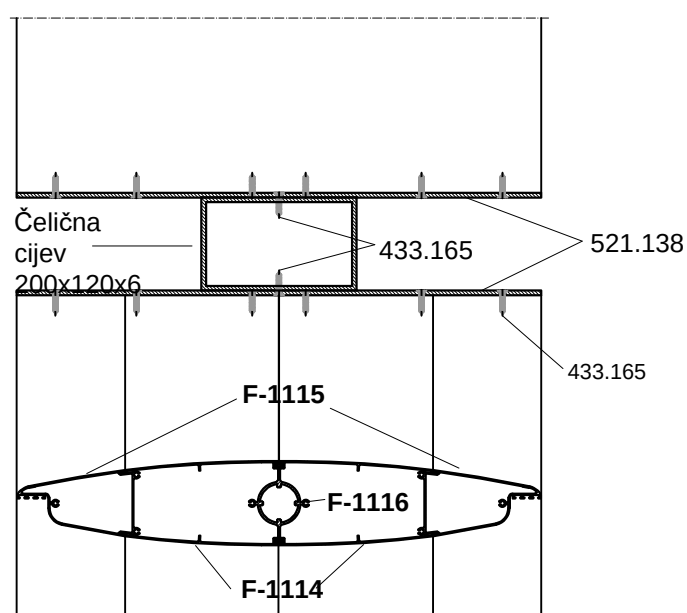
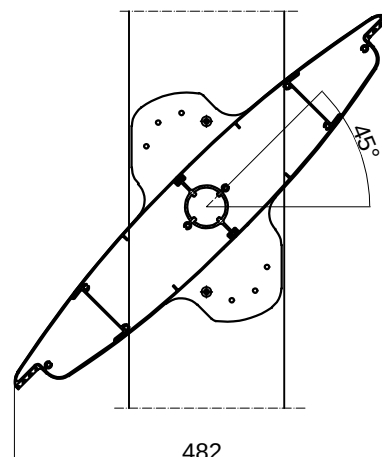
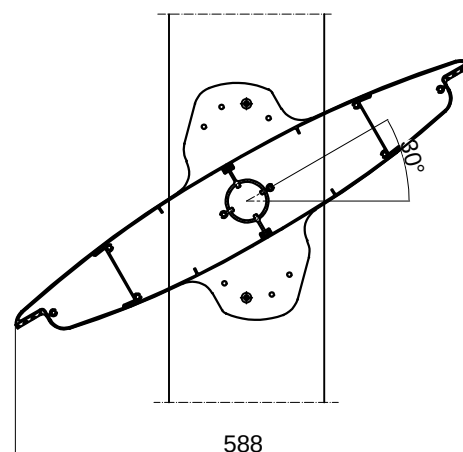
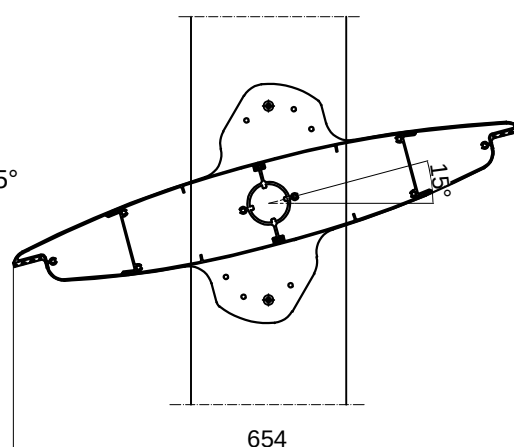
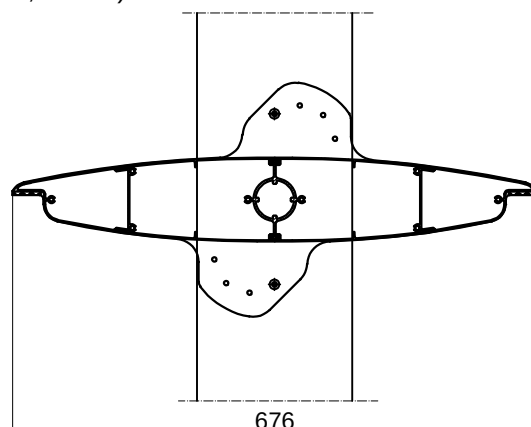
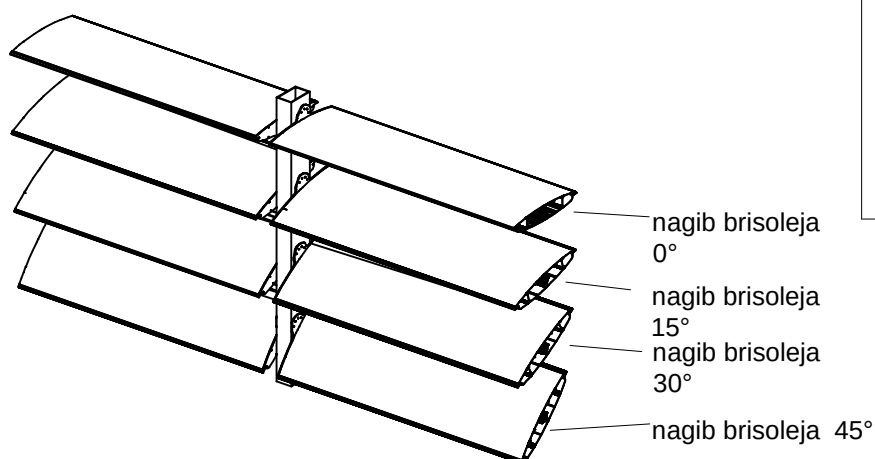
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 400 mm (F-0768)

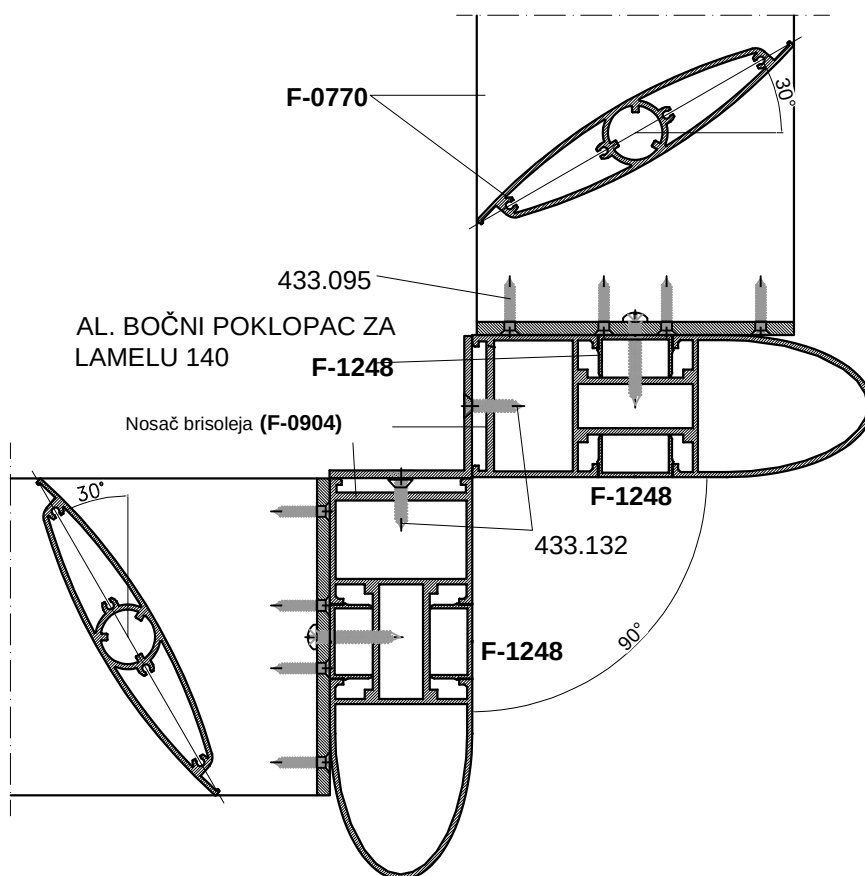
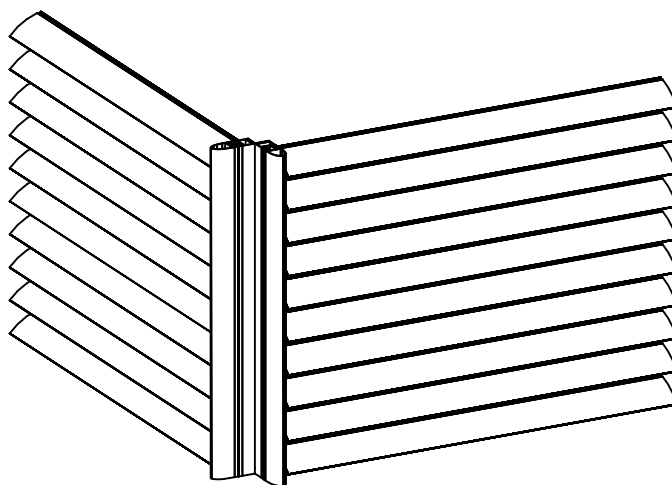


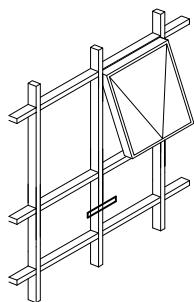
NAPOMENA: Na sredini lamele uraditi otvor za odvod kapljevina

- lamela 675 mm (F-1114;F-1115;F-1116)



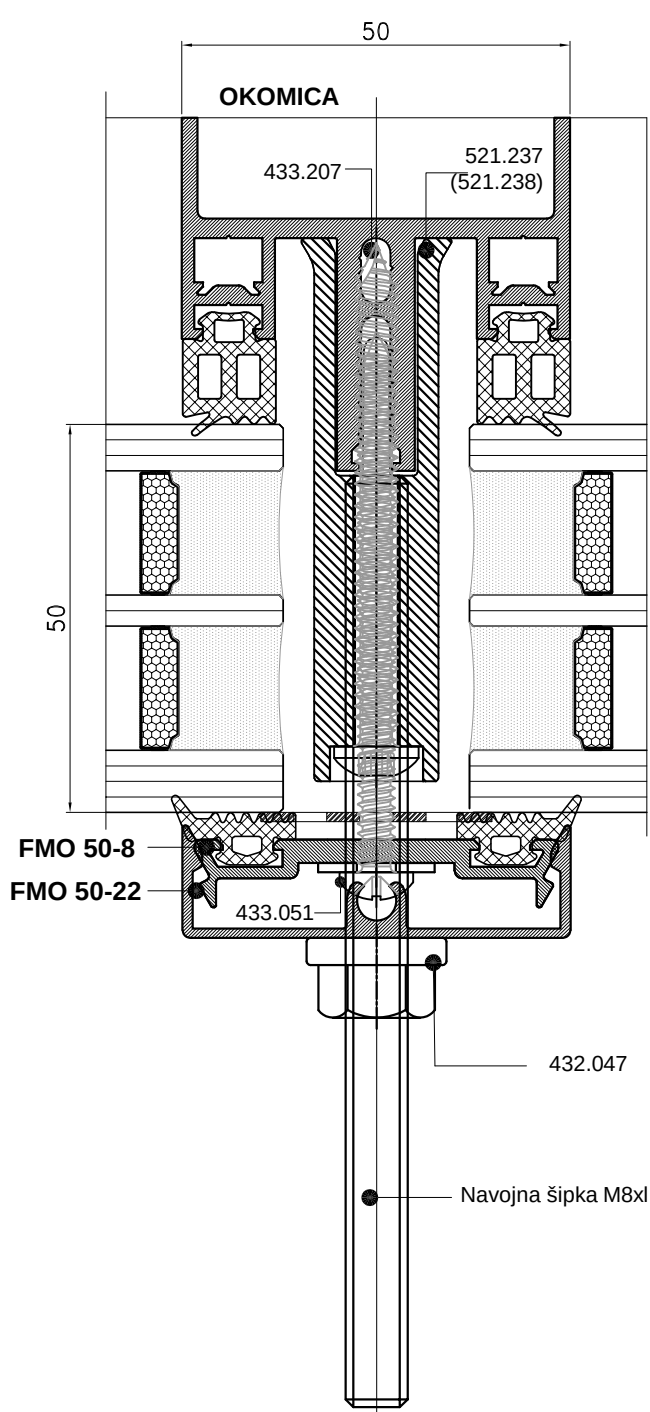
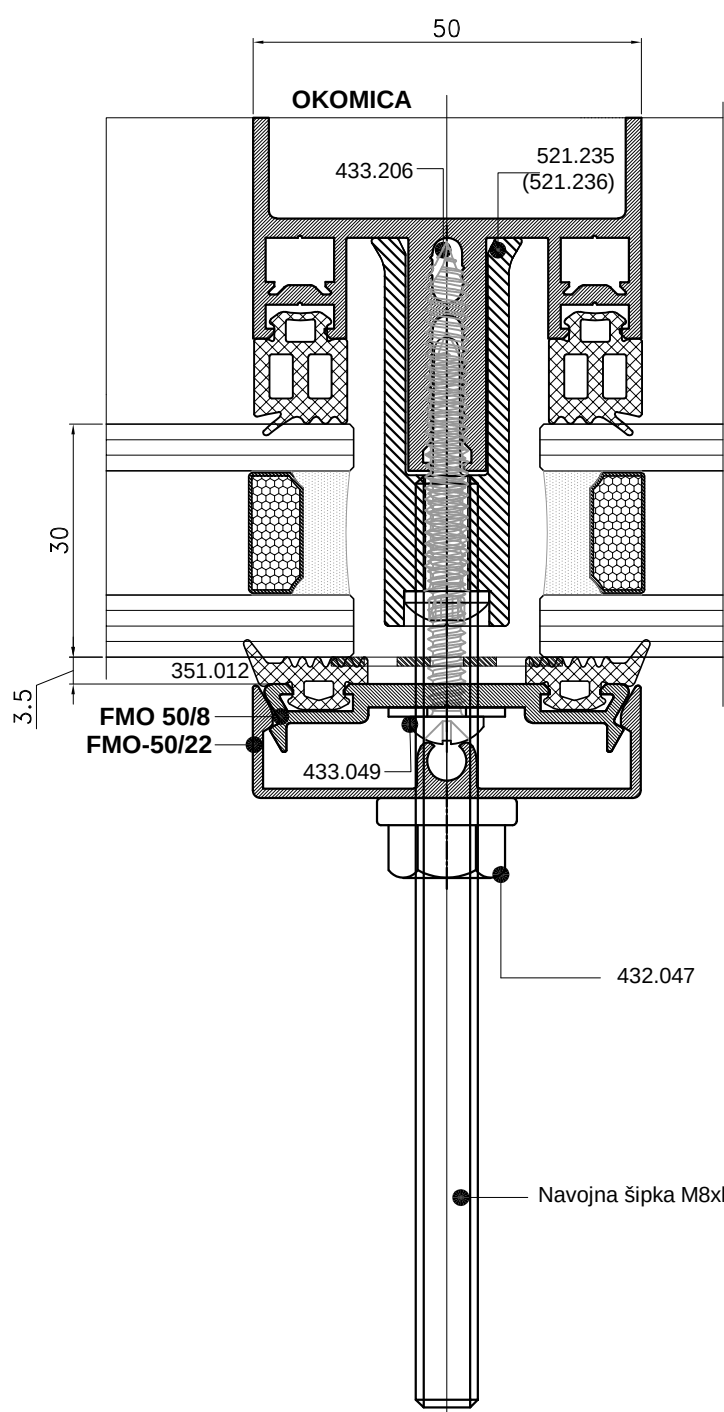
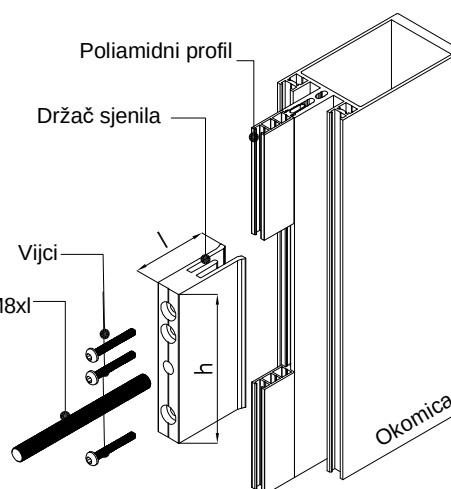
- lamela 140 mm (F-0770) - ugradnja pod kutom od 90°

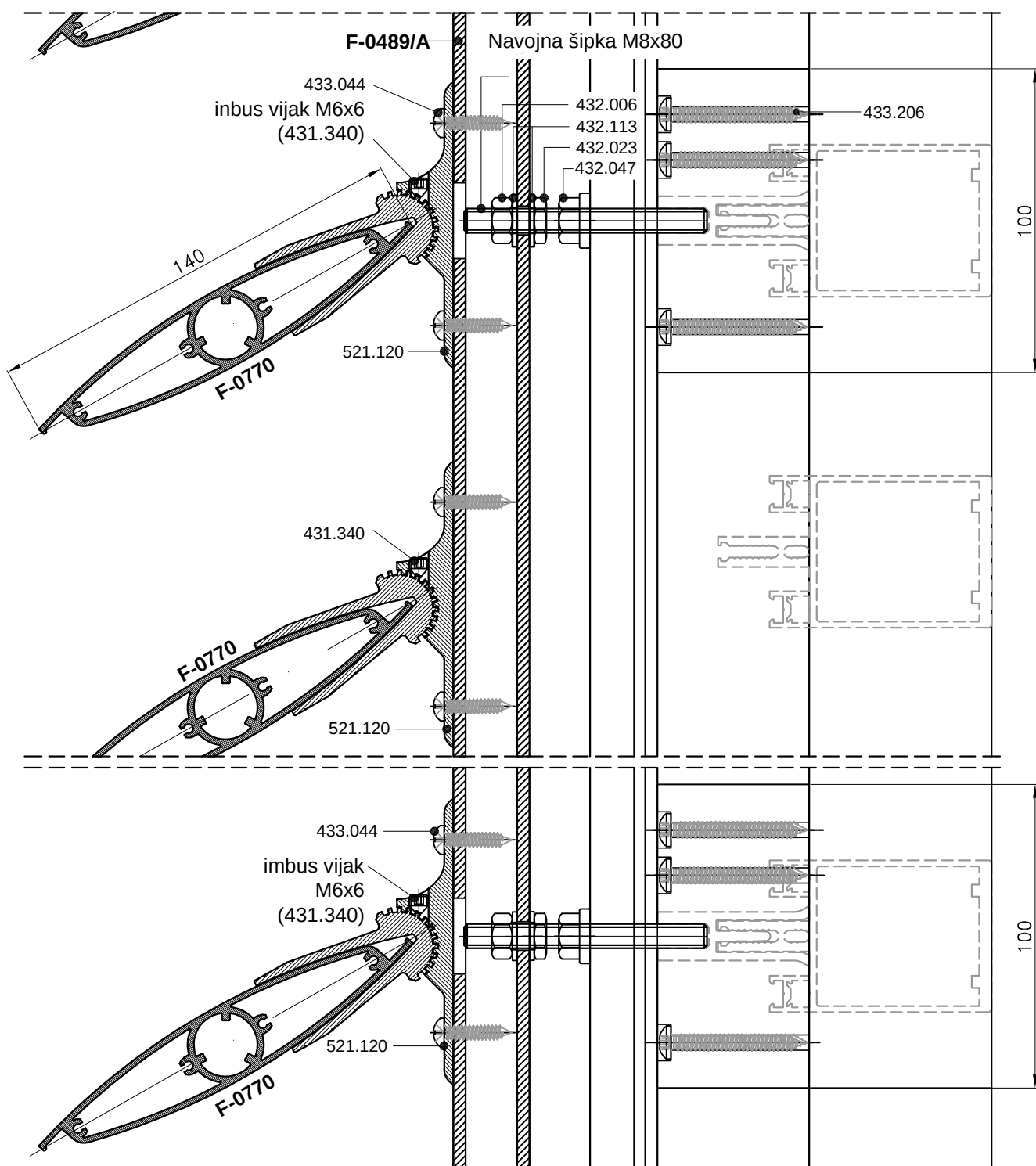
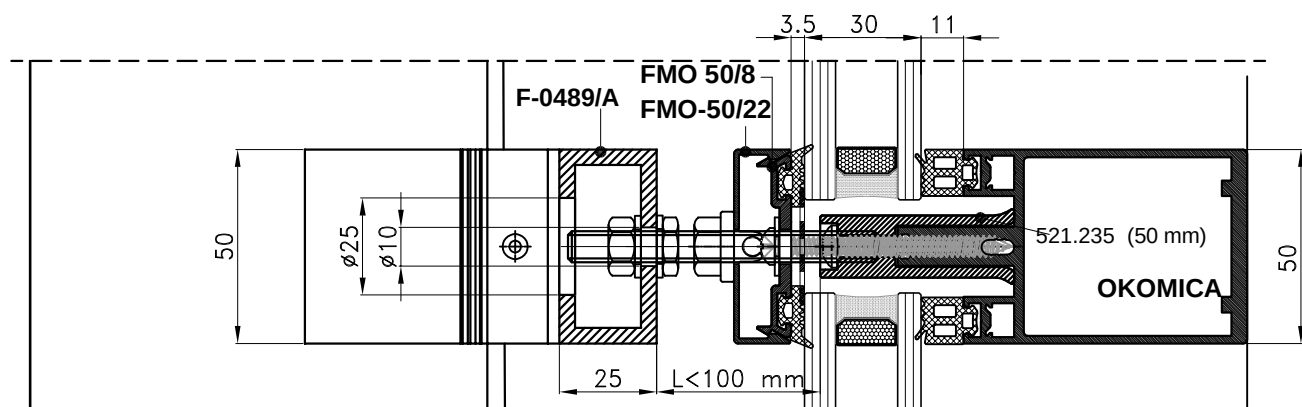


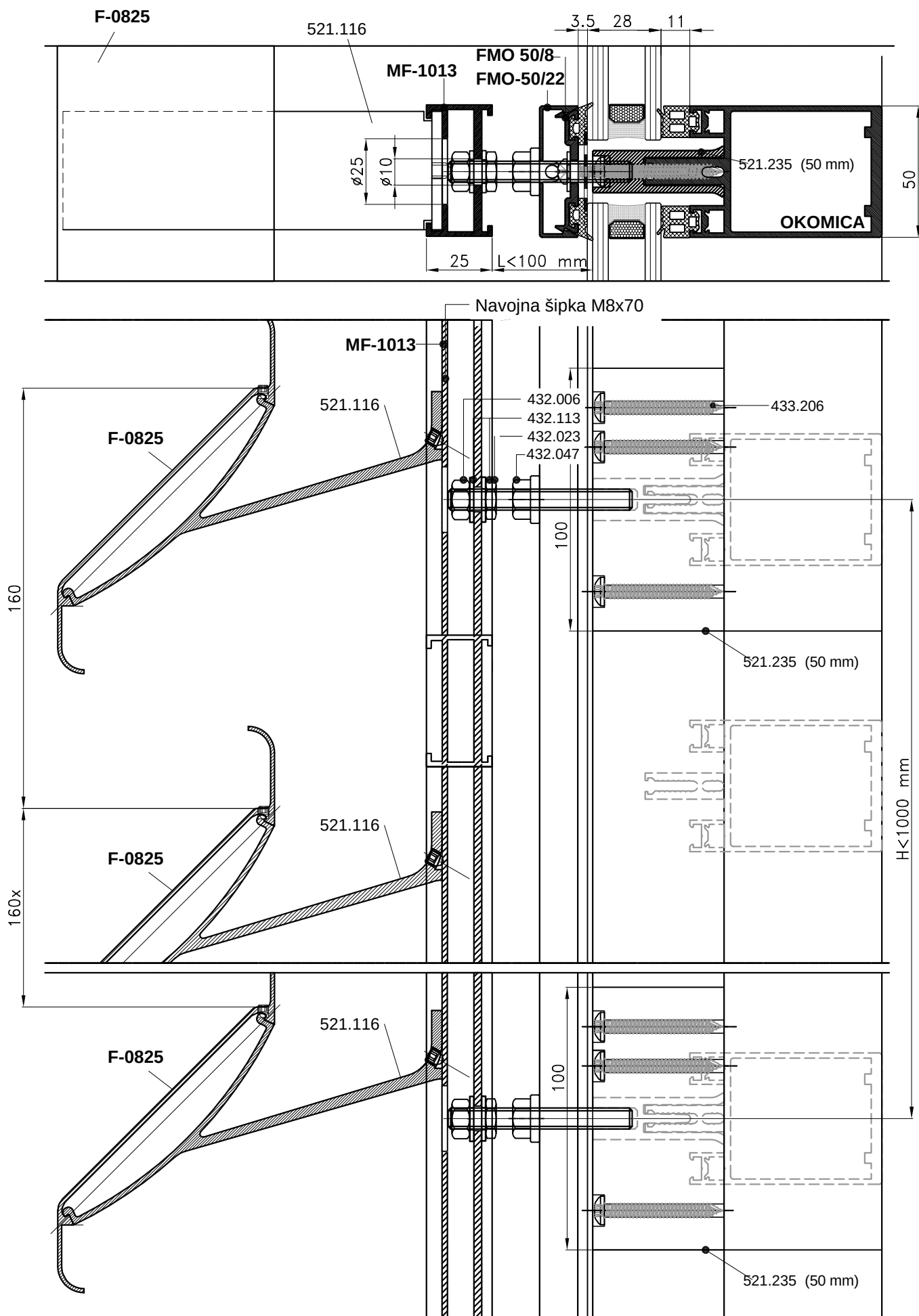


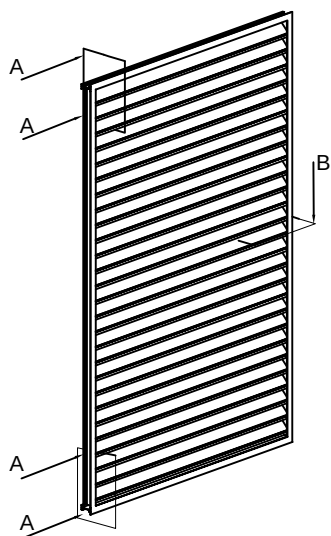
Držač sjenila	Vijci	Dimenzije l x h
521.235	433.206	50x100 mm
521.236	433.206	50x160 mm
521.237	433.207	70x100 mm
521.238	433.207	70x160 mm

Navojna šipka M8xl

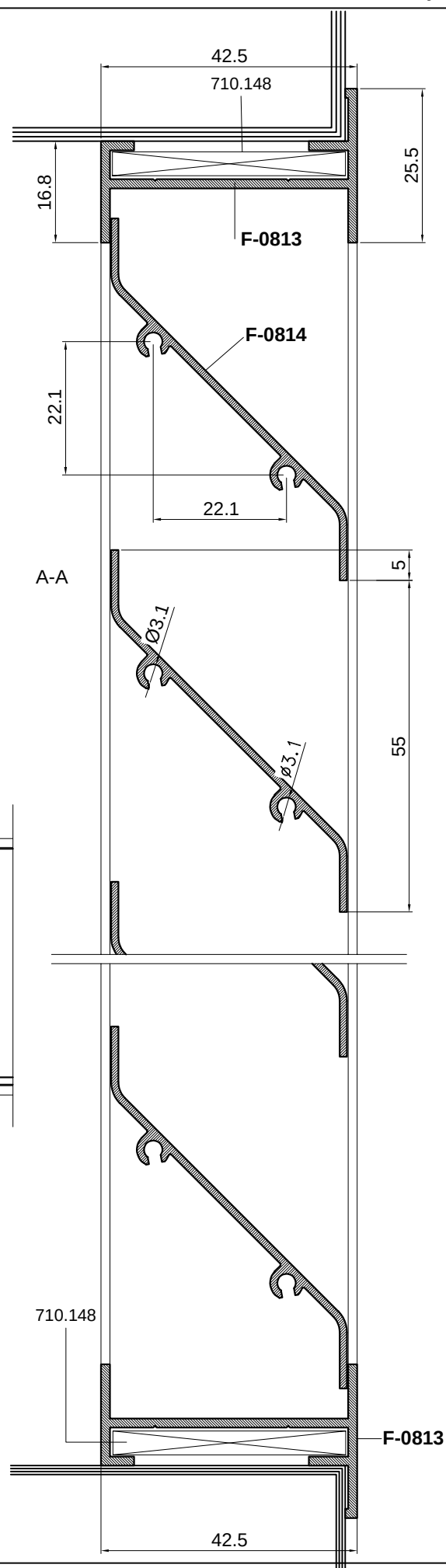
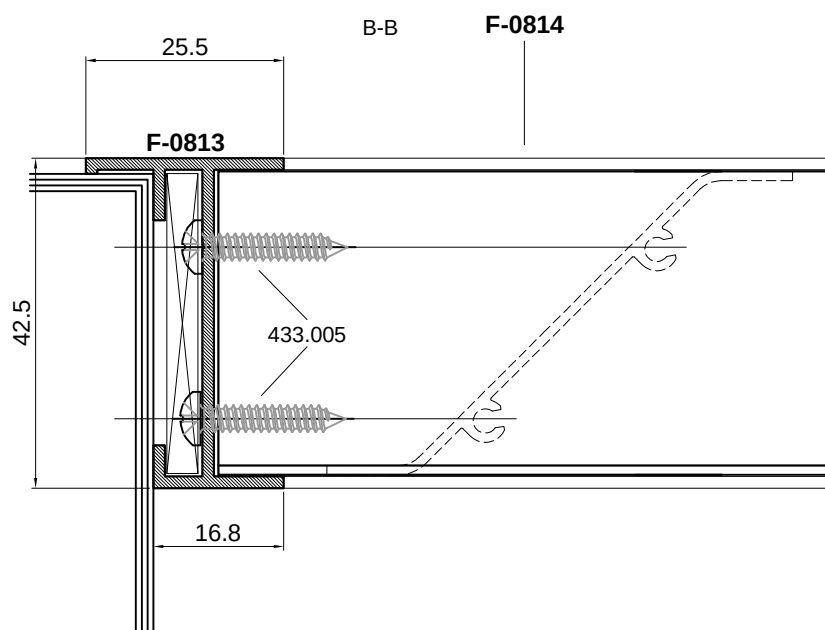


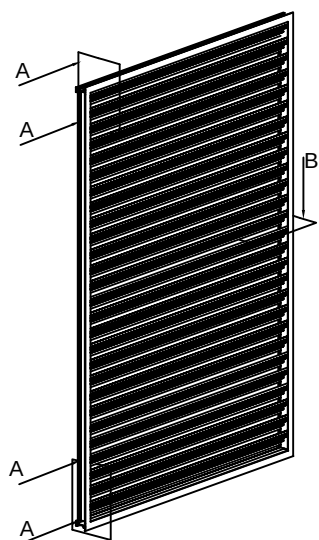




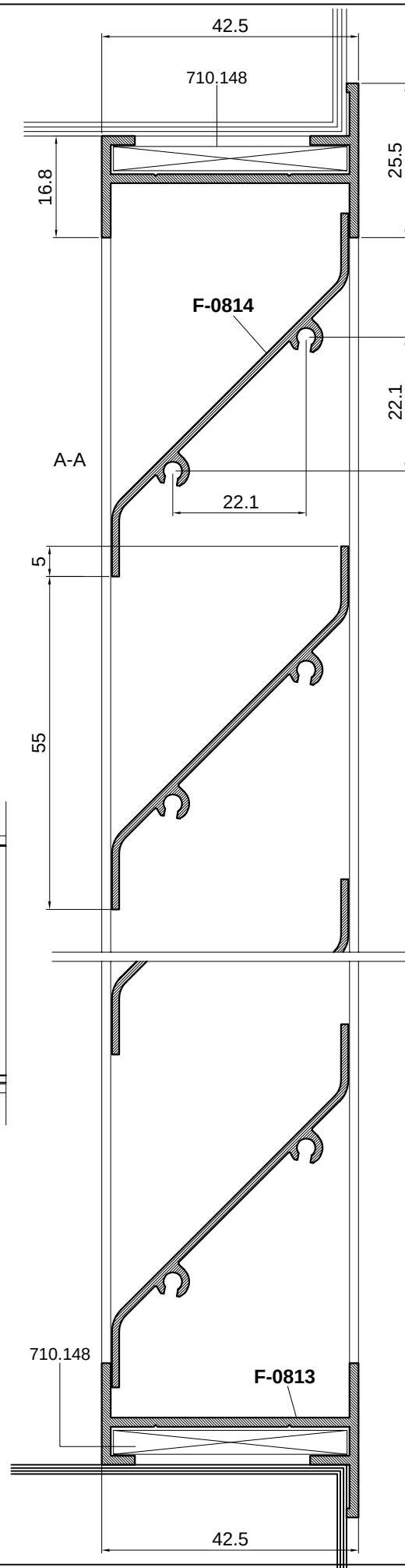
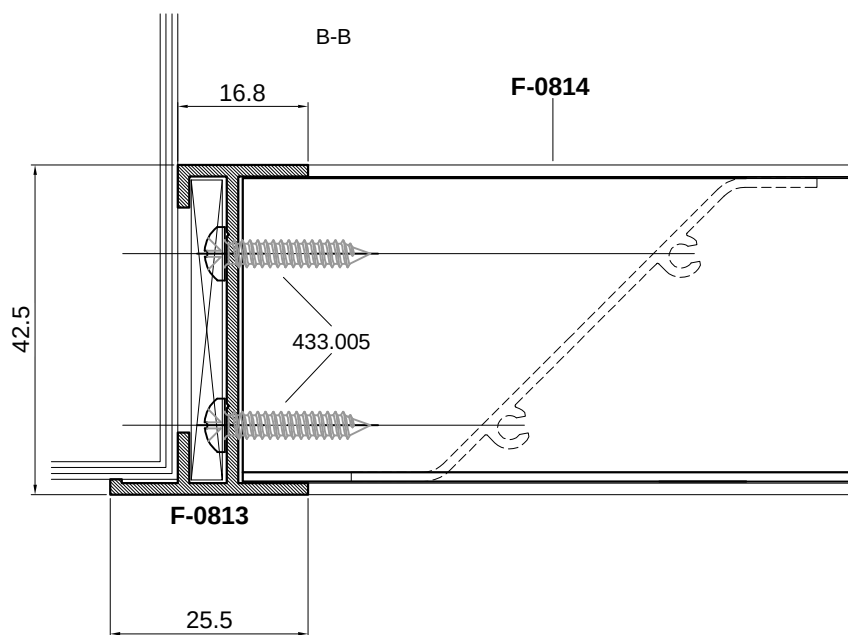


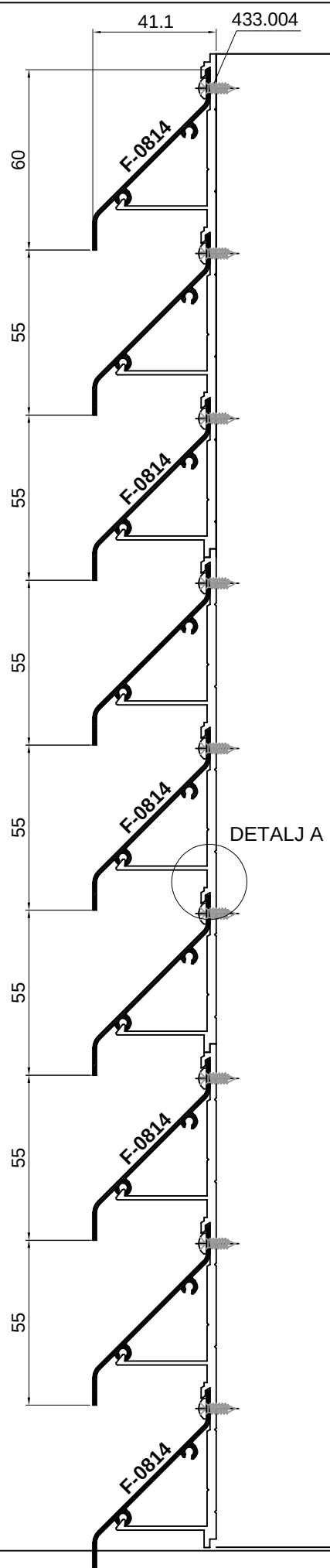
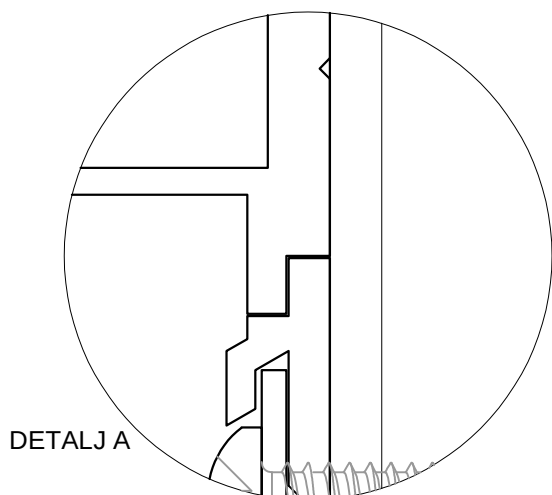
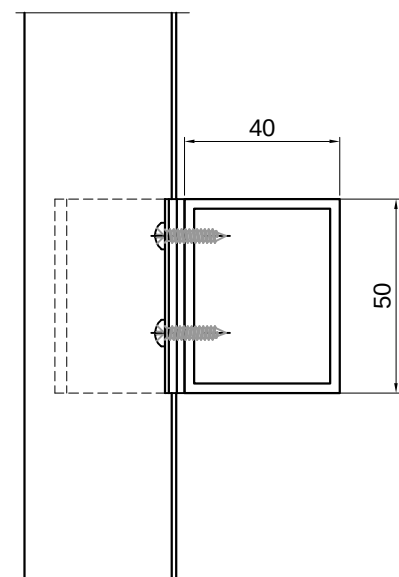
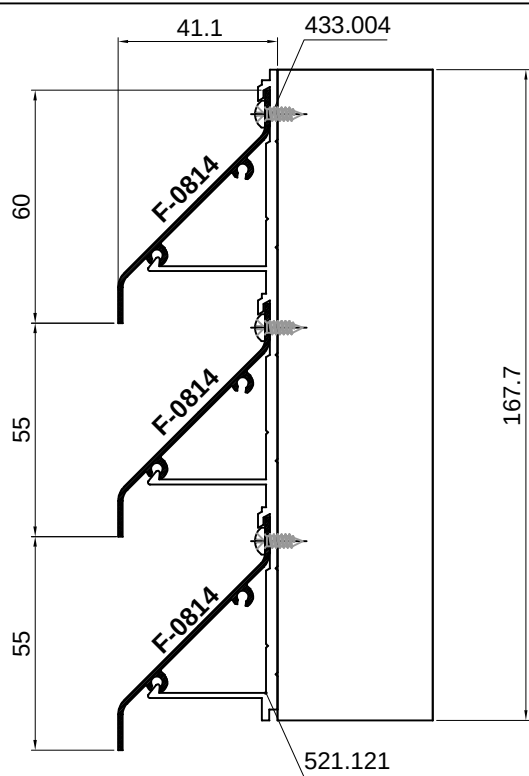
POLOŽAJ LAMELA PREMA VANI

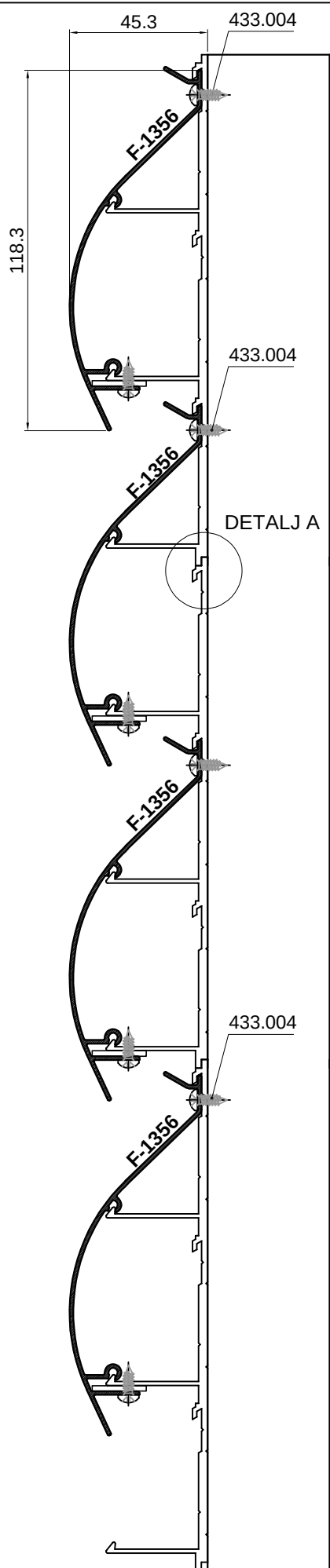
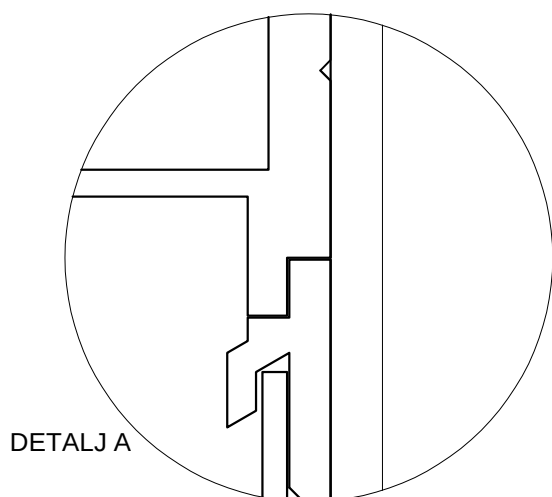
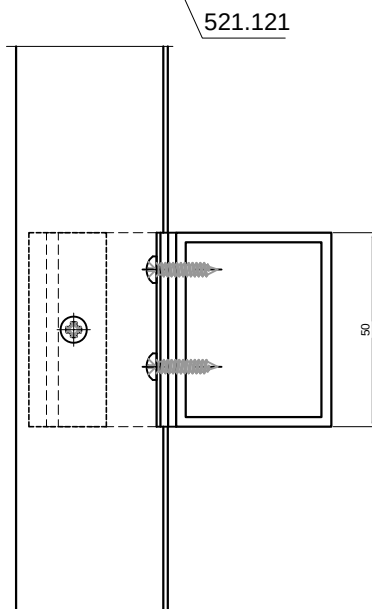
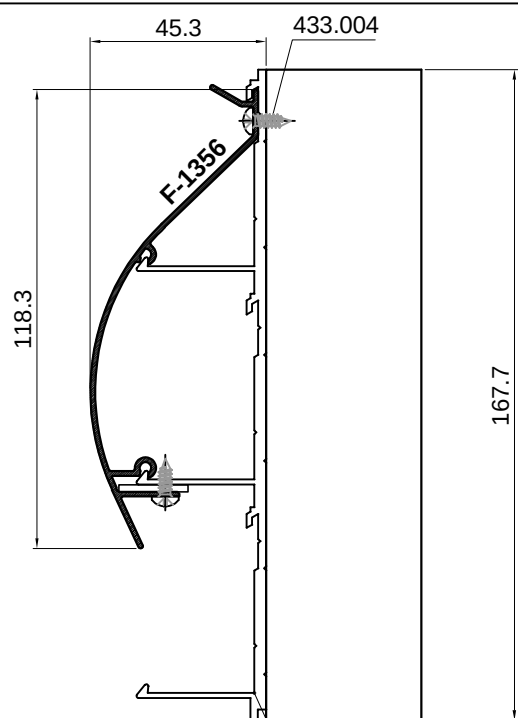


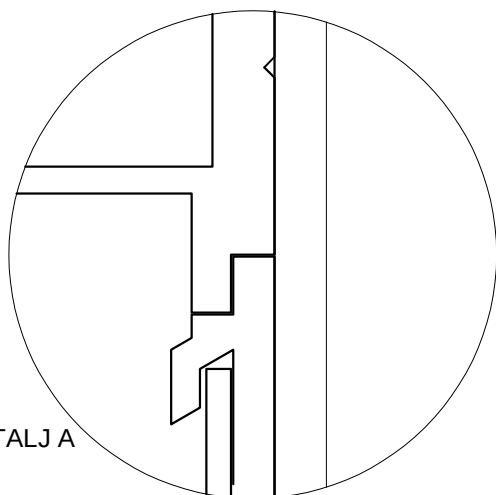
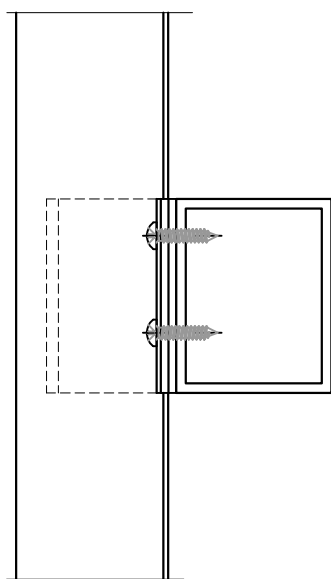
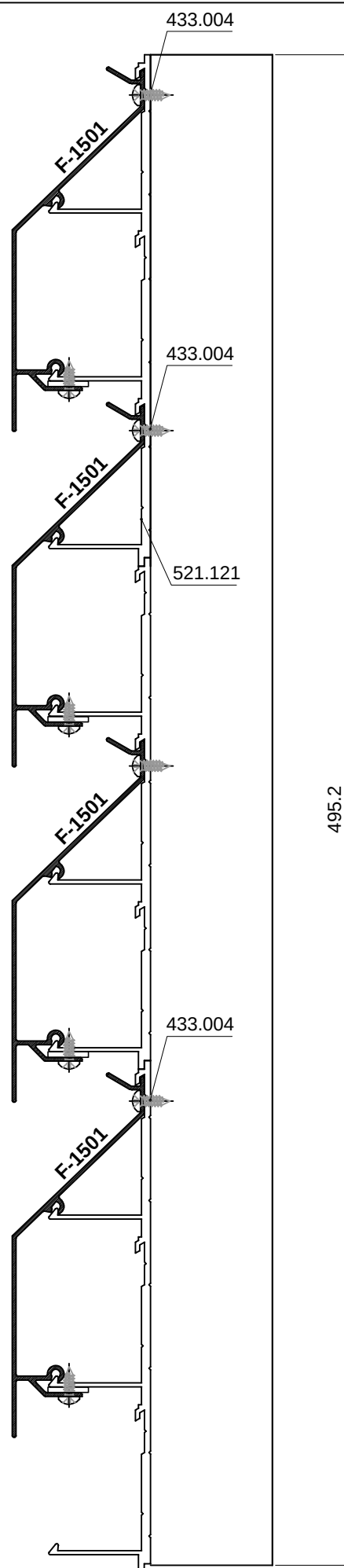


POLOŽAJ LAMELA PREMA UNUTRA

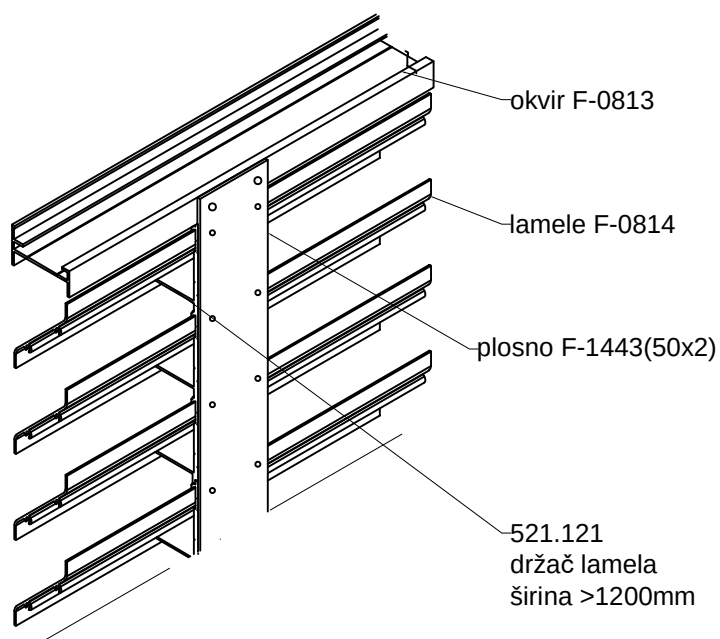




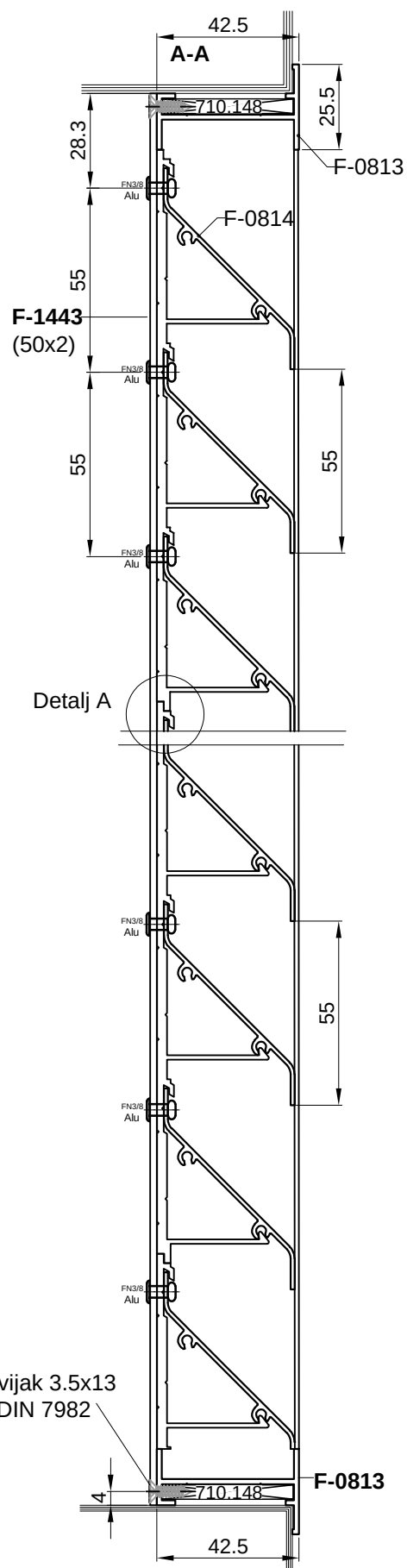
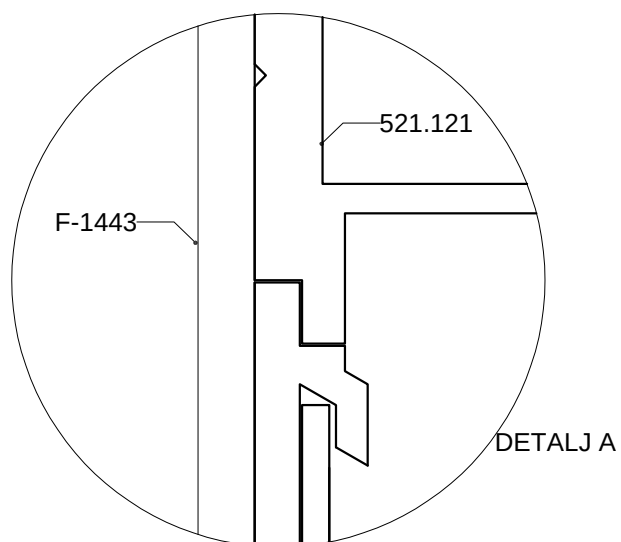
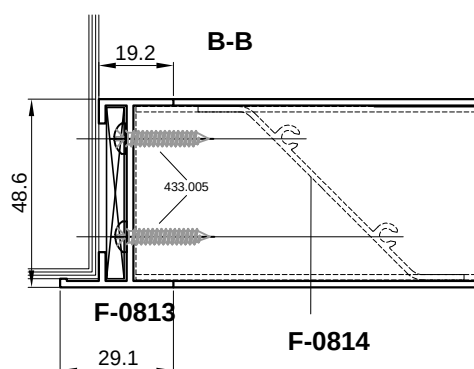


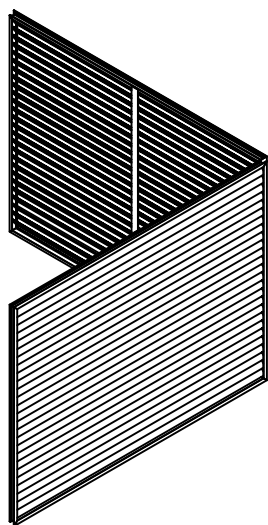


DETALJ A

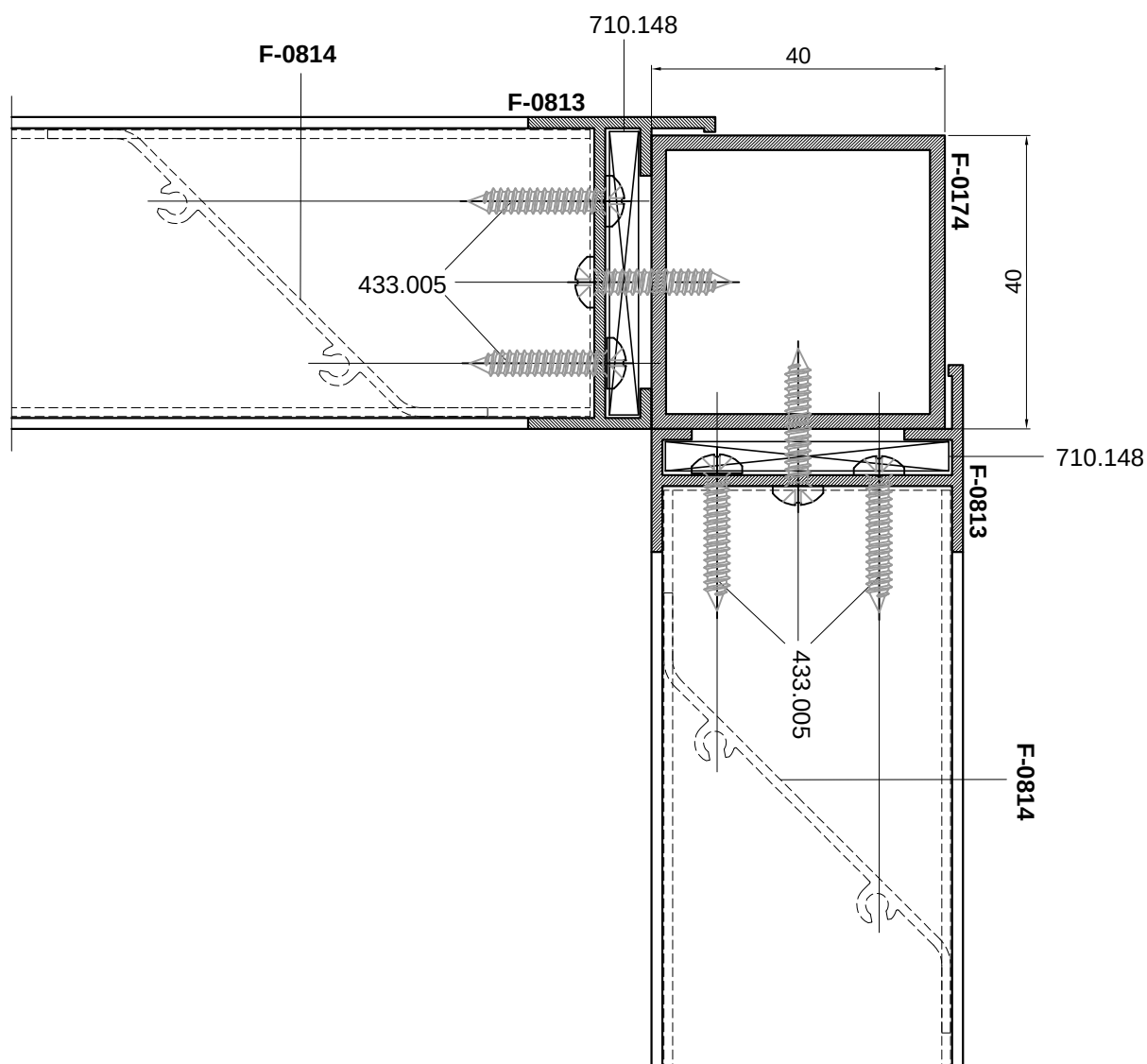


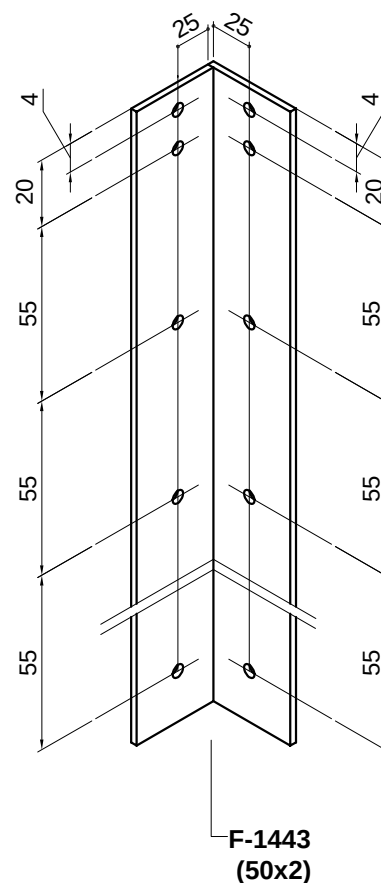
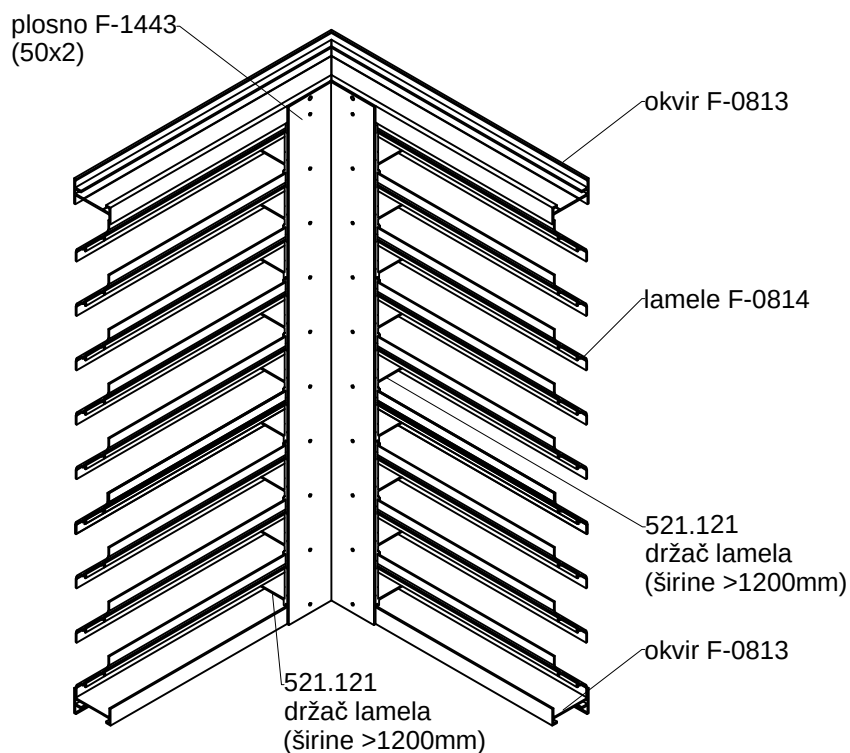
POLOŽAJ LAMELA PREMA VANI



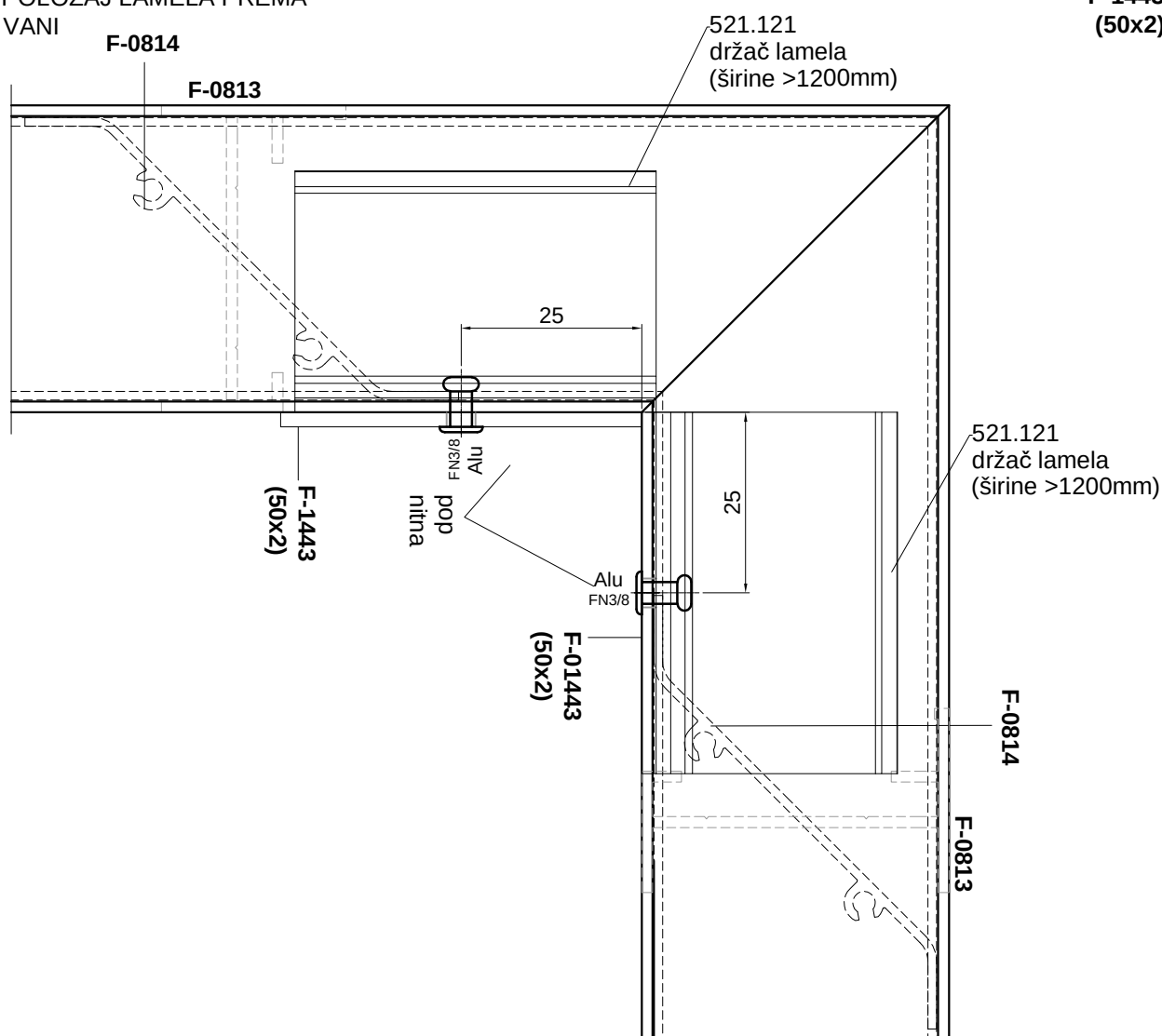


POLOŽAJ LAMELA PREMA
VANI

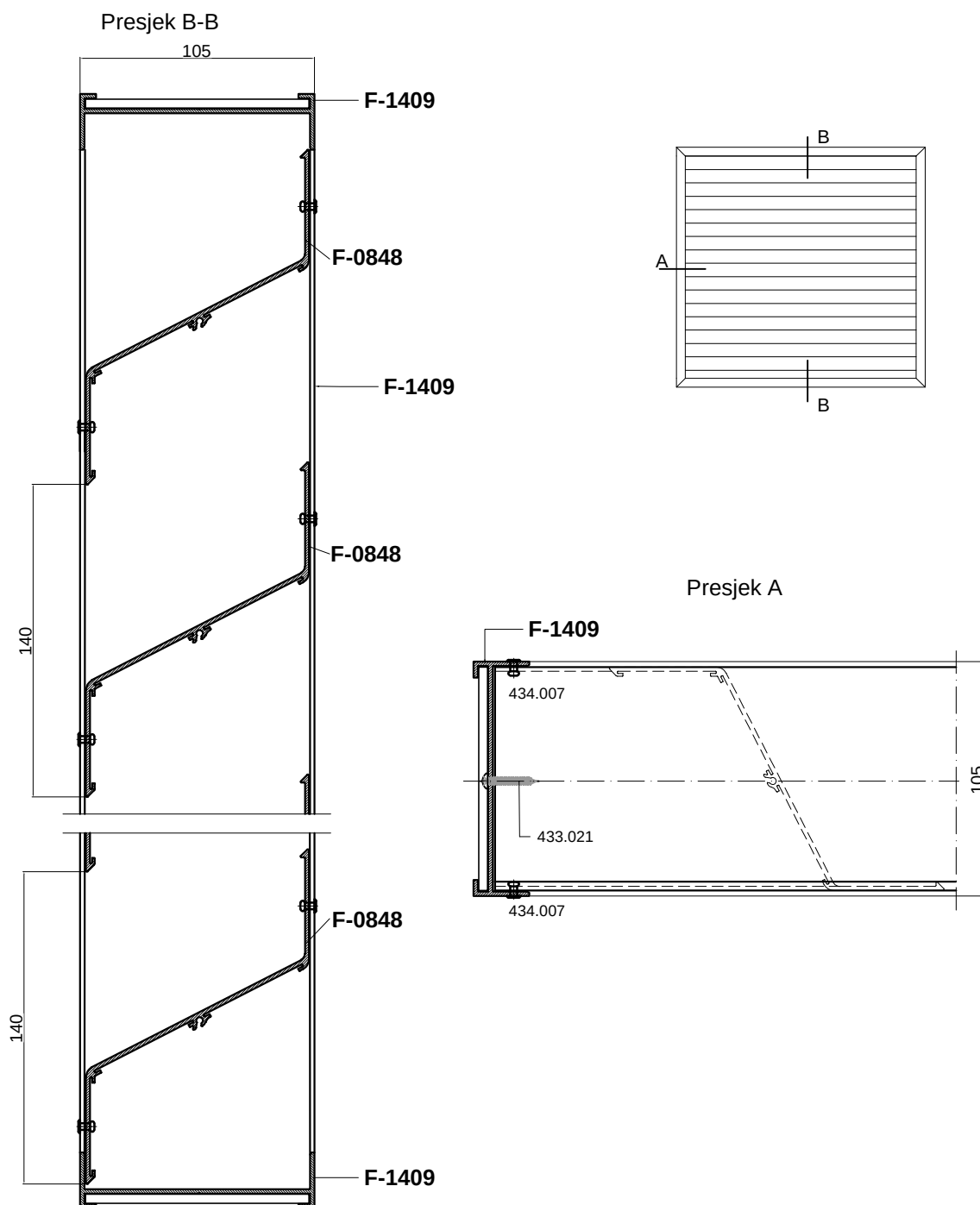


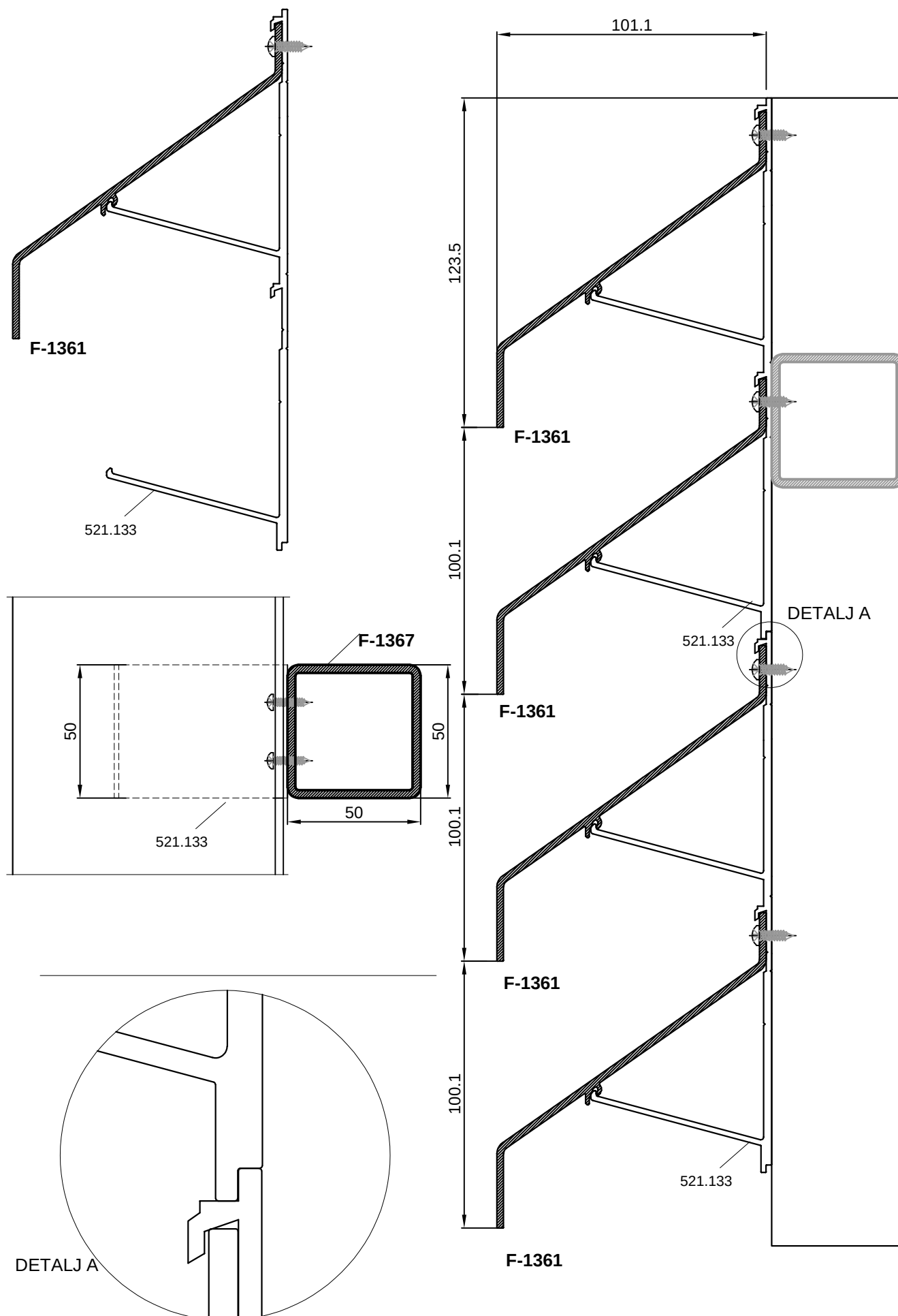


POLOŽAJ LAMELA PREMA VANI



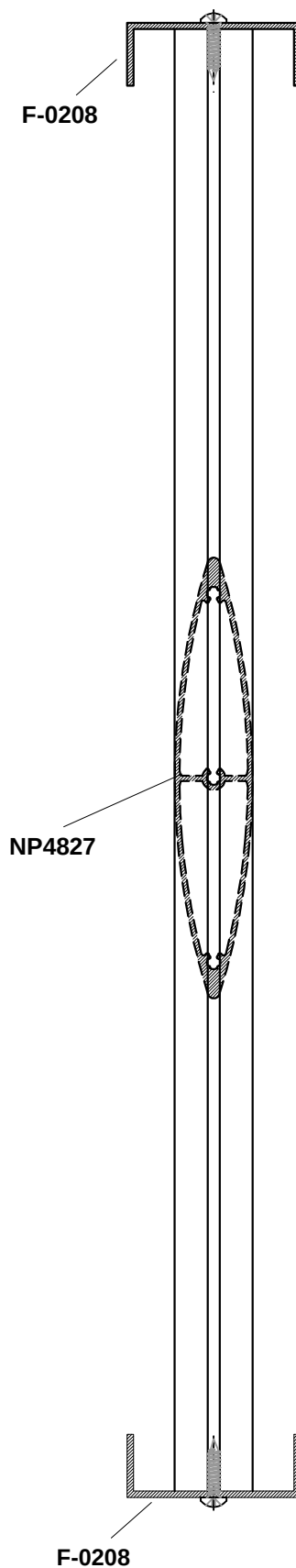
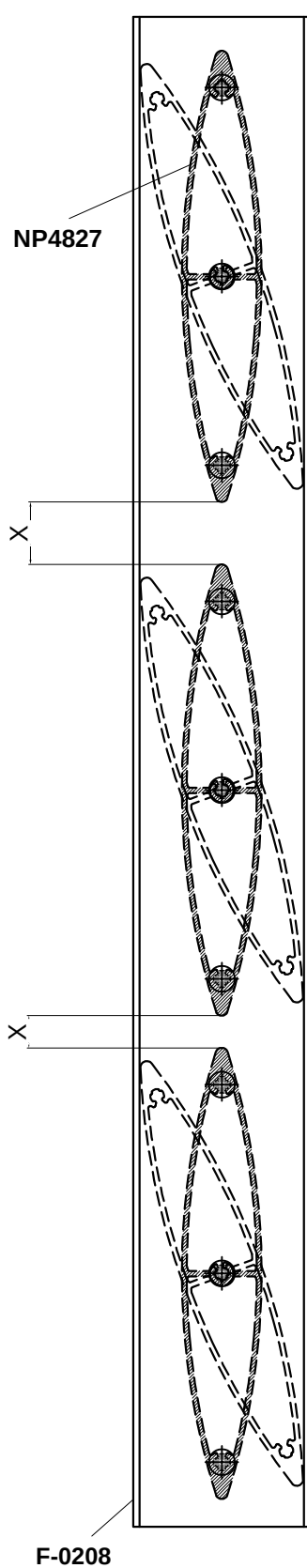
Lamela F-0848 u ramu F-1409





Položaj lamele NP-4827
u profilu F-0208

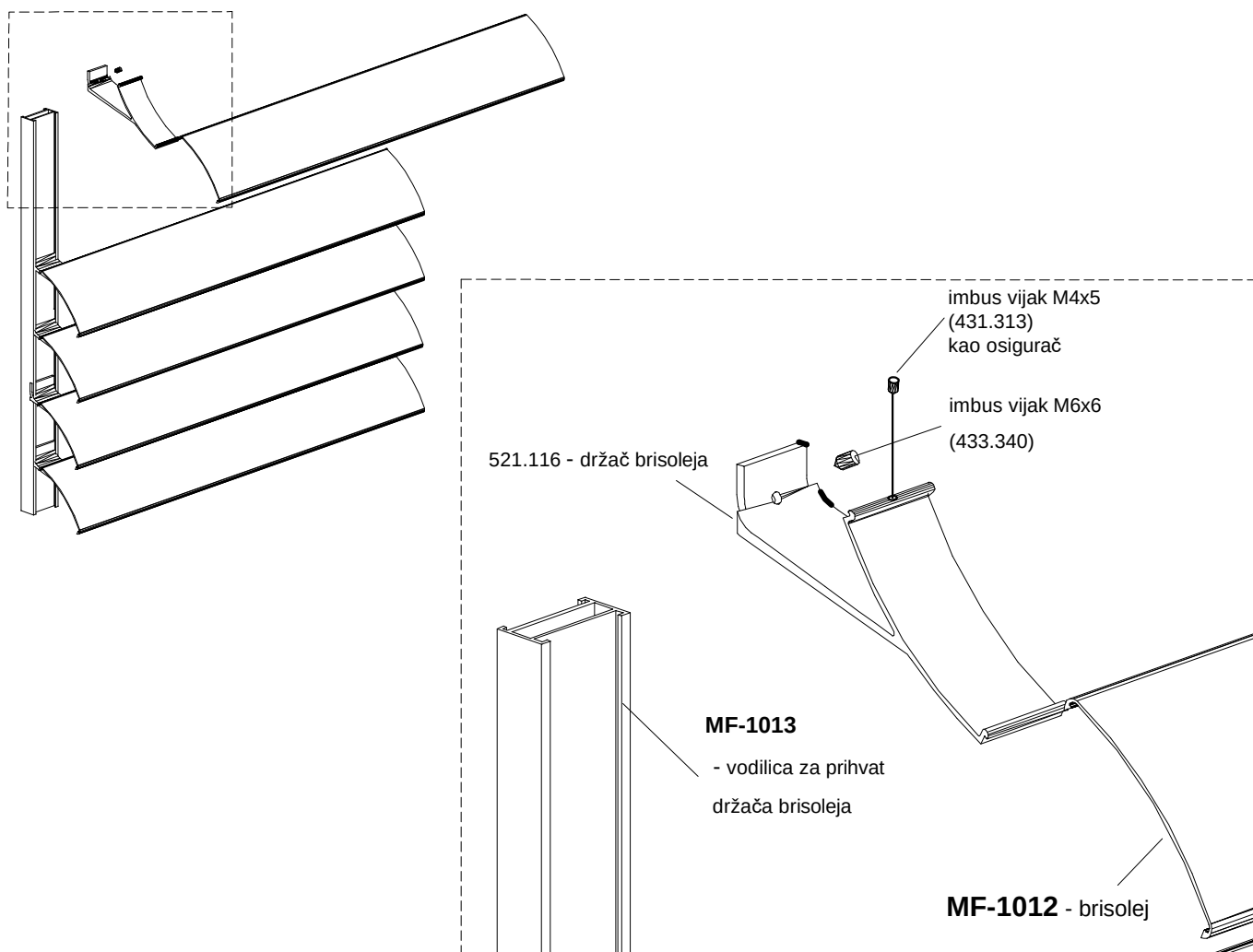
Dimenzija "X" je promjenjiva



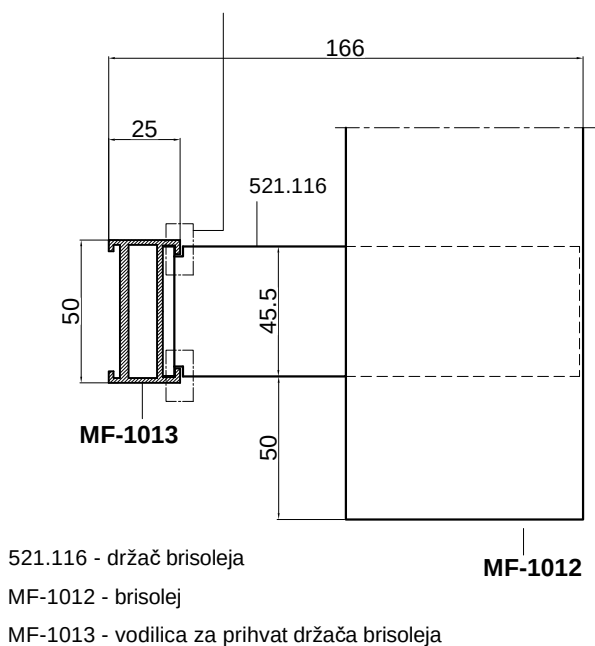
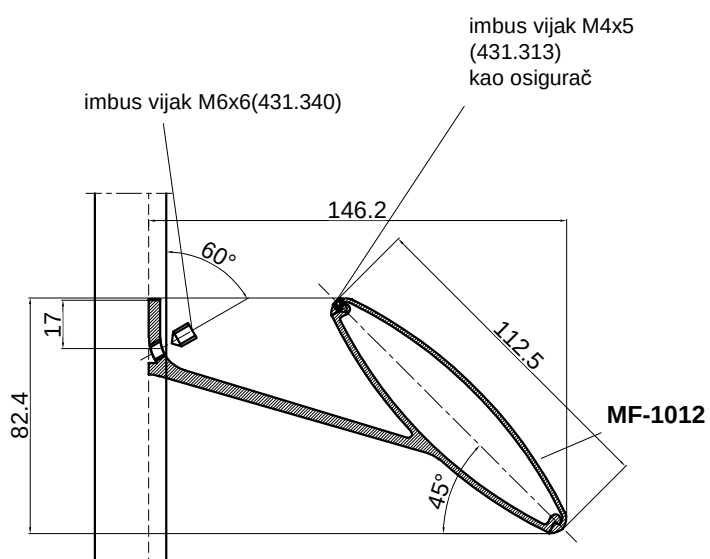
Obrada i montaža

Montaža

UGRADNJA S VODILICOM MF-1013

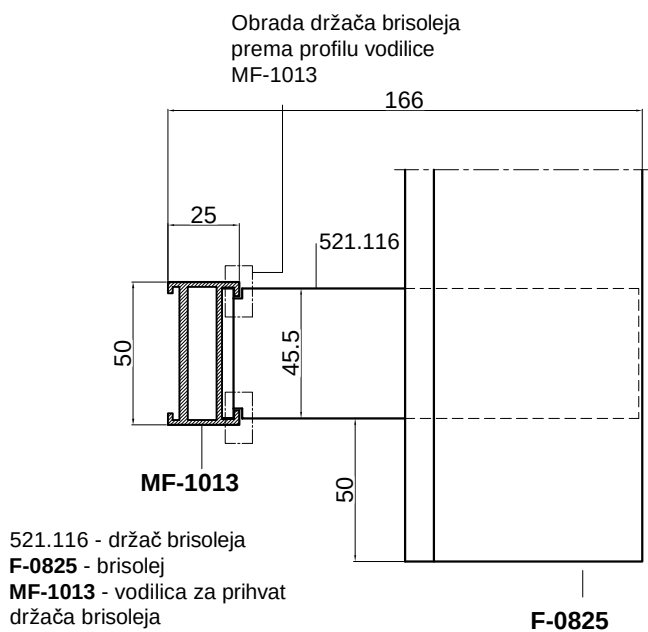
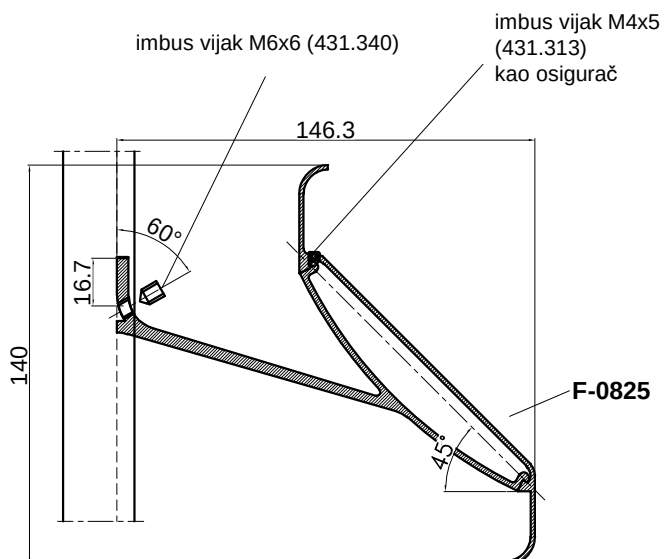
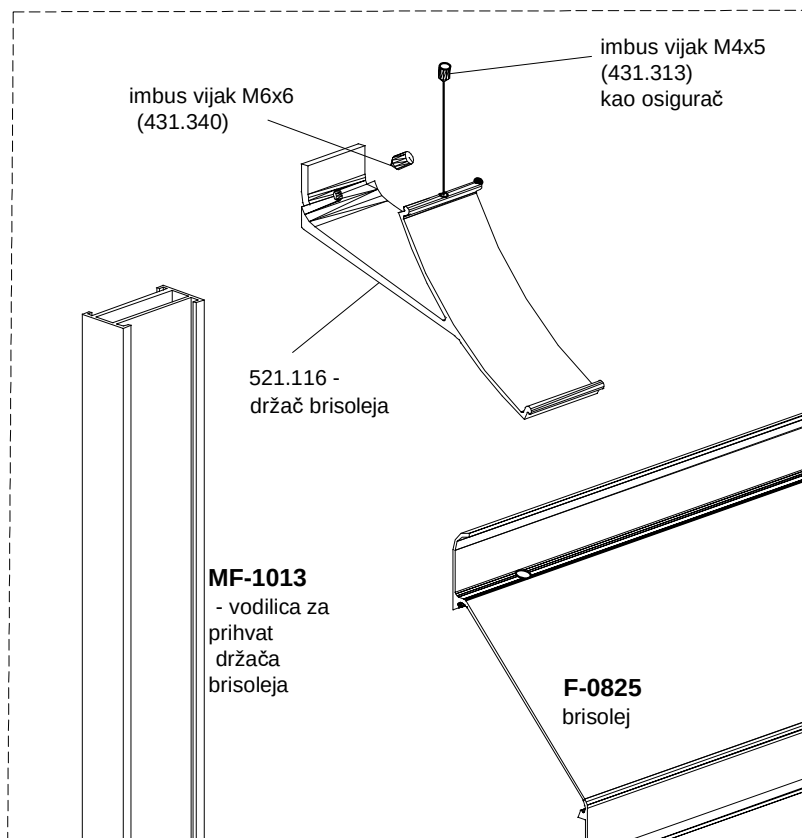
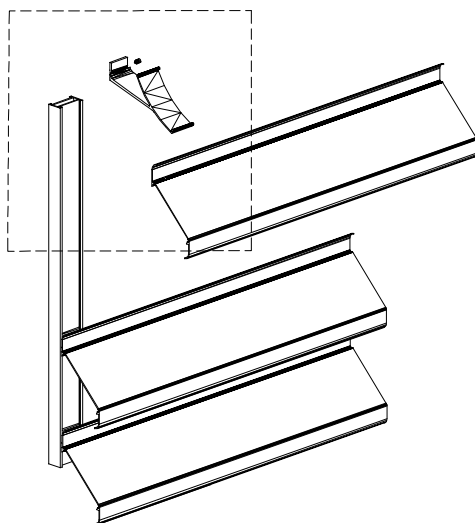


Obrada držača brisoleja prema profilu vodilice MF-1013



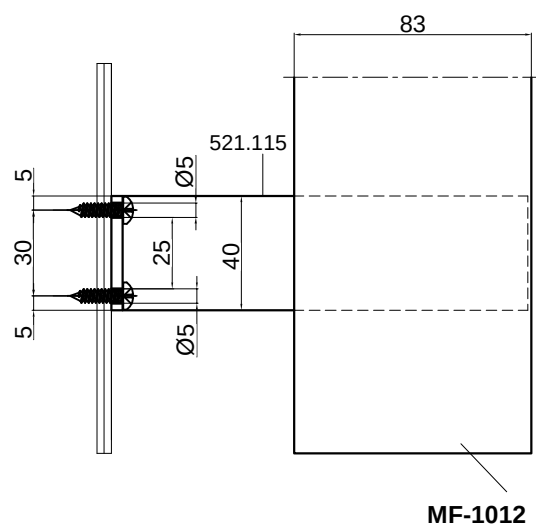
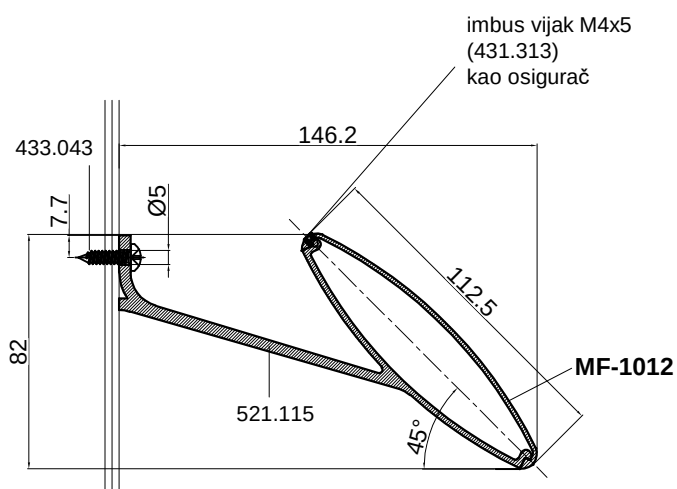
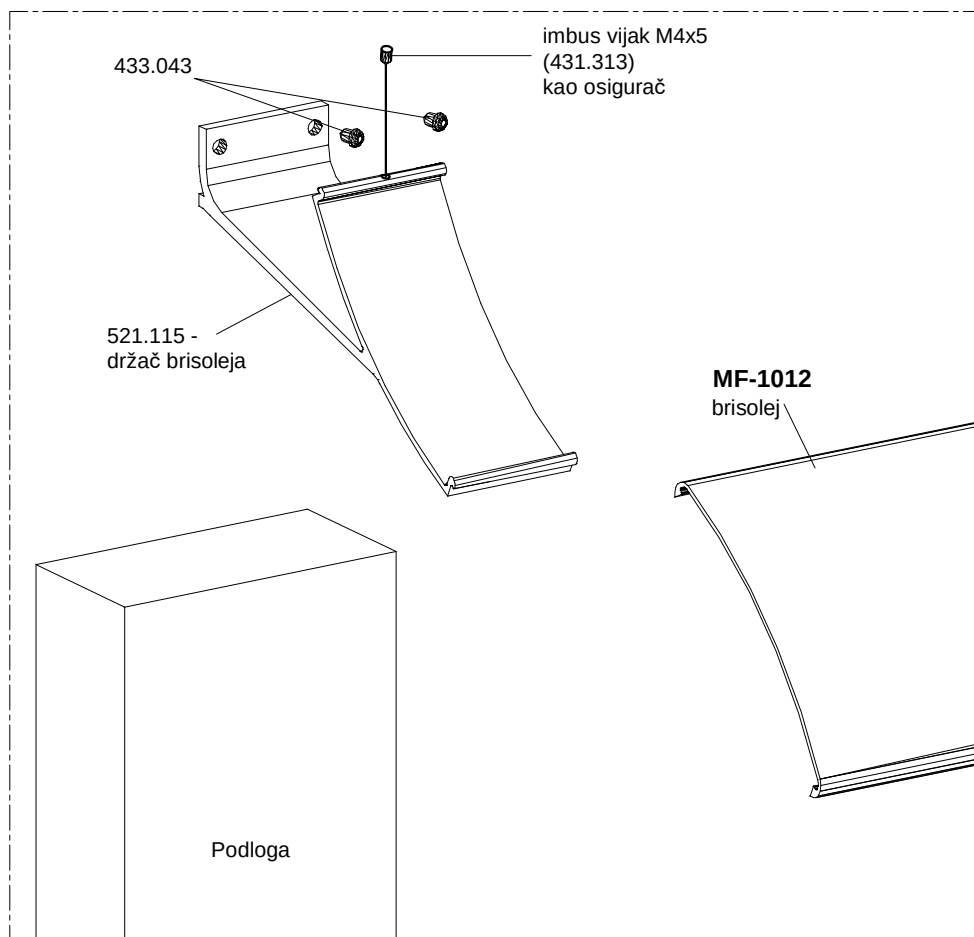
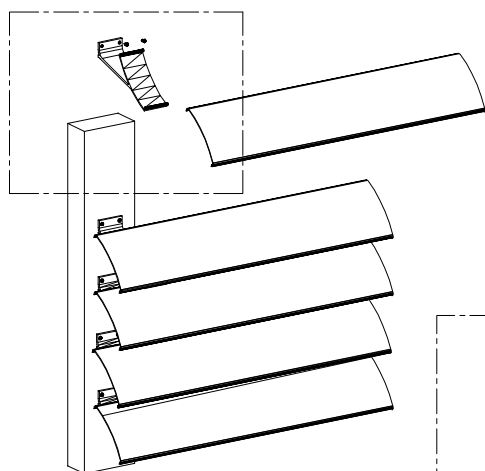
Montaža

UGRADNJA S VODILICOM MF-1013



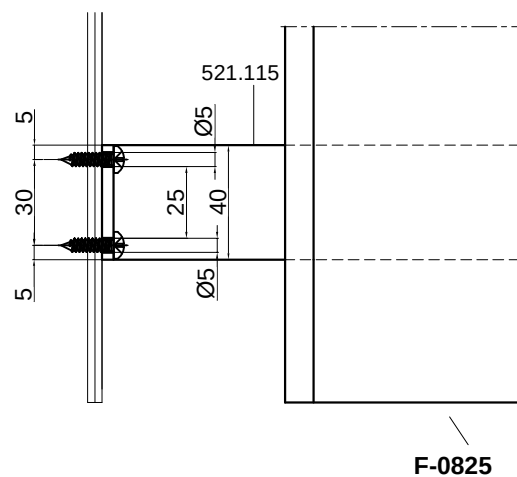
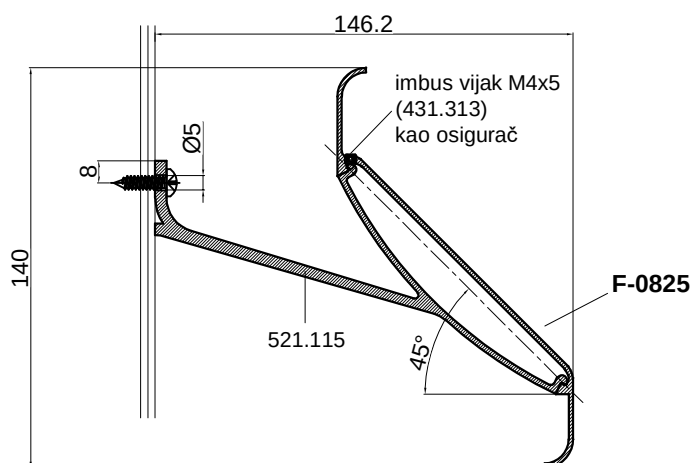
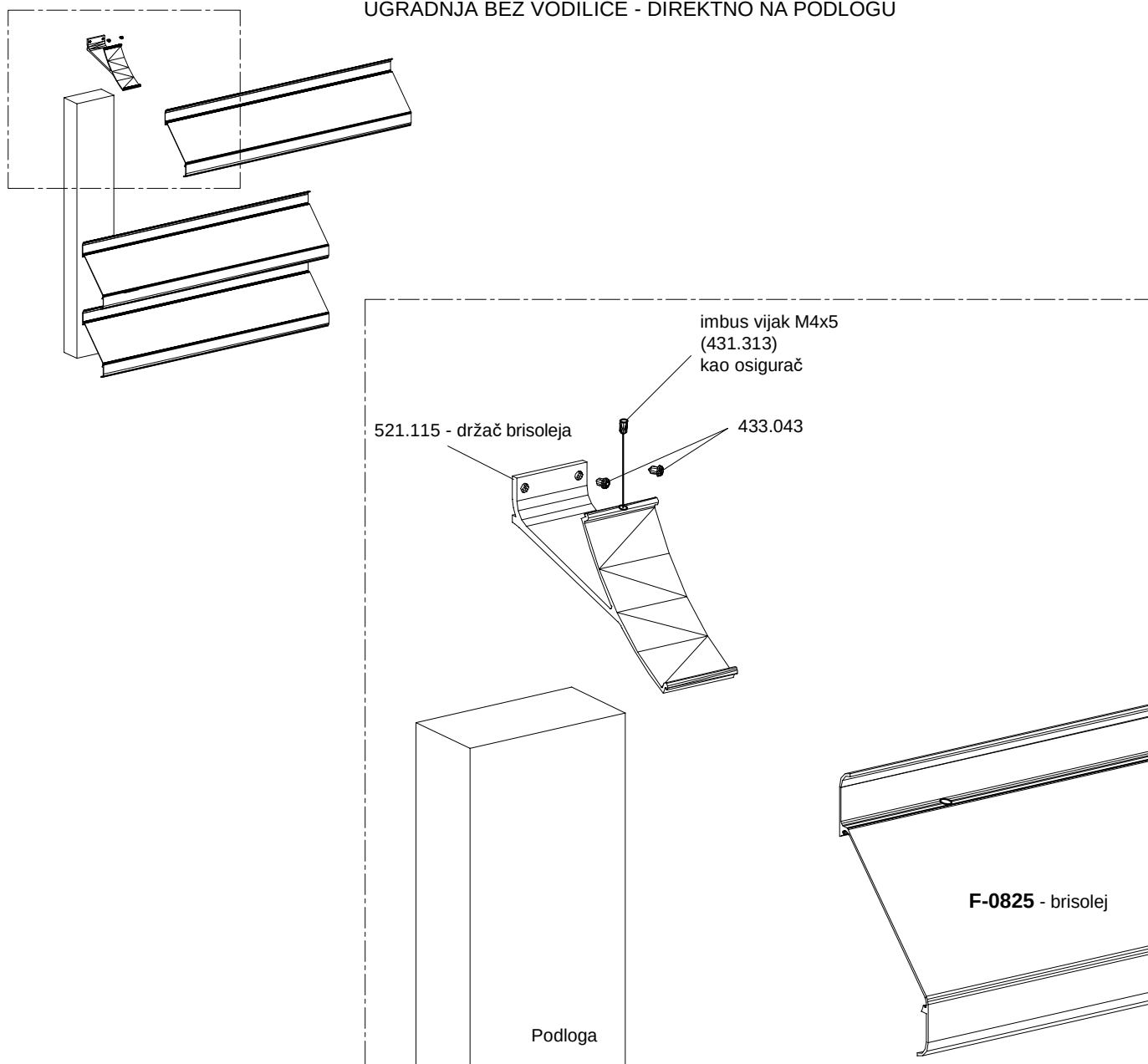
Montaža

UGRADNJA BEZ VODILICE - DIREKTNO NA PODLOGU

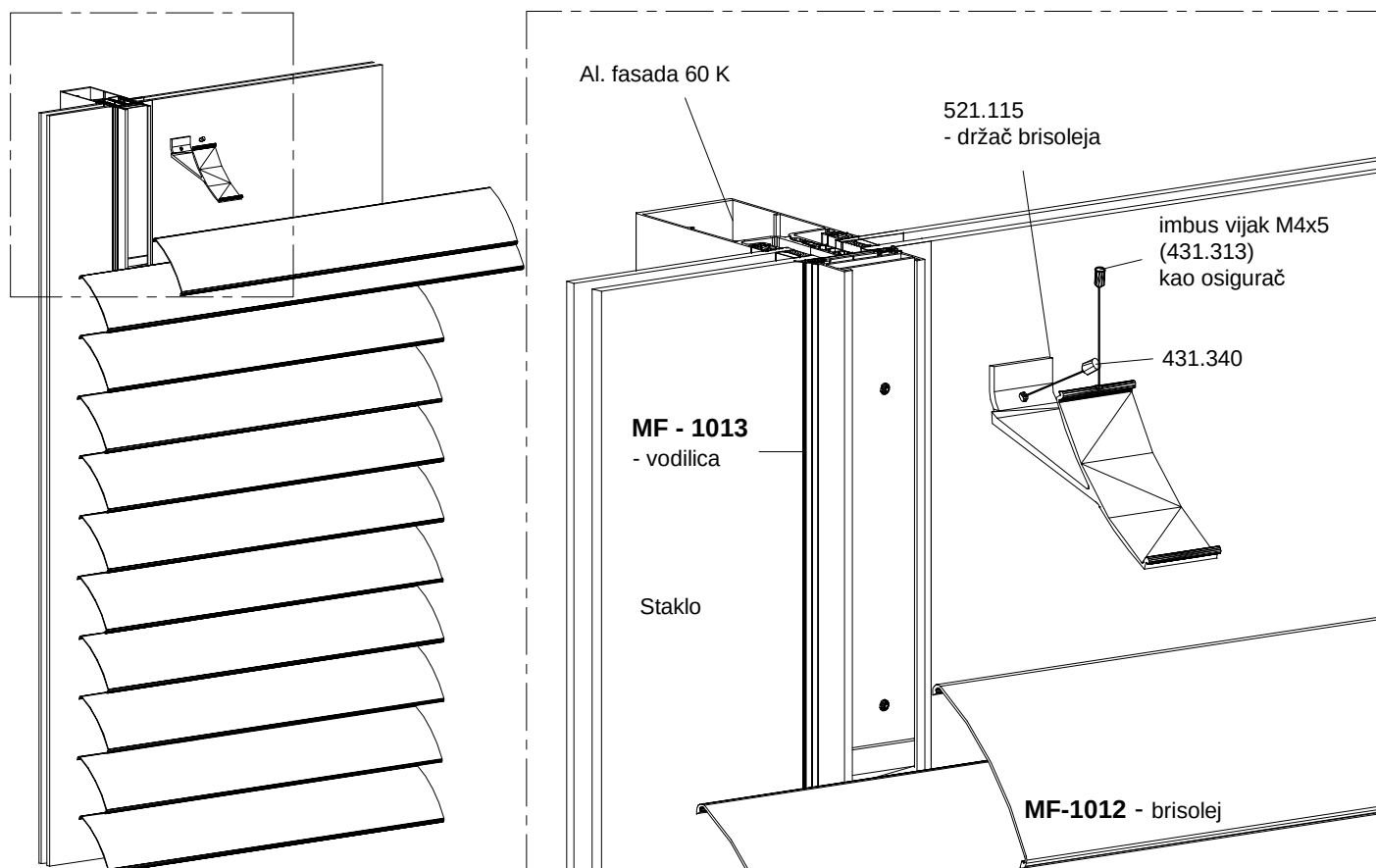
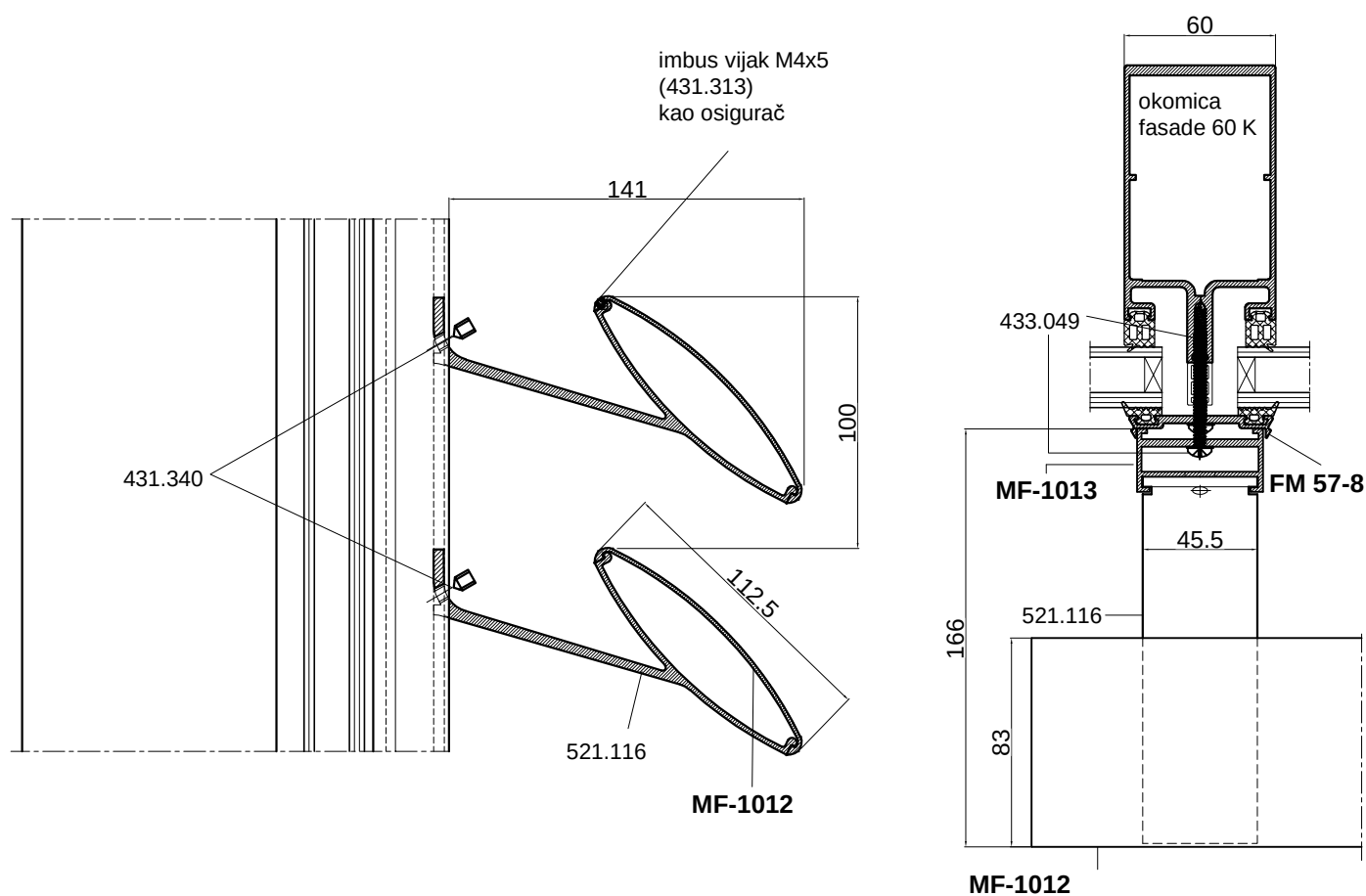


Montaža

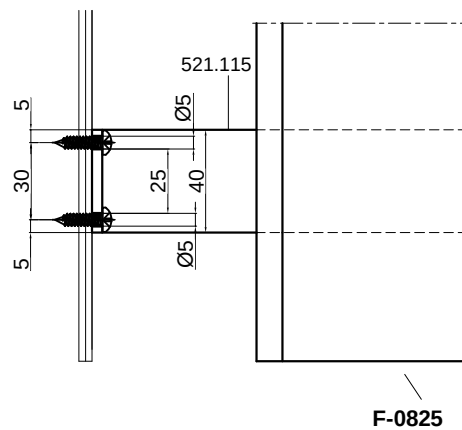
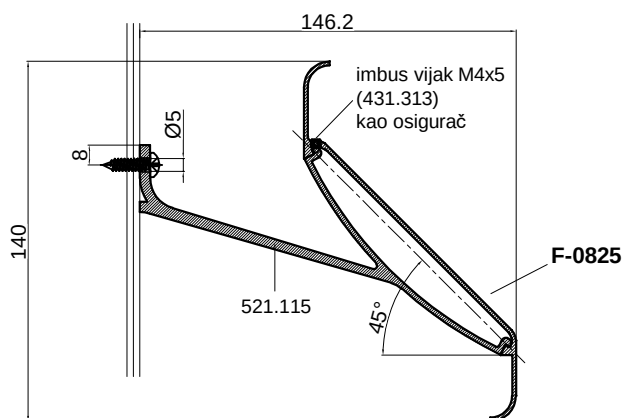
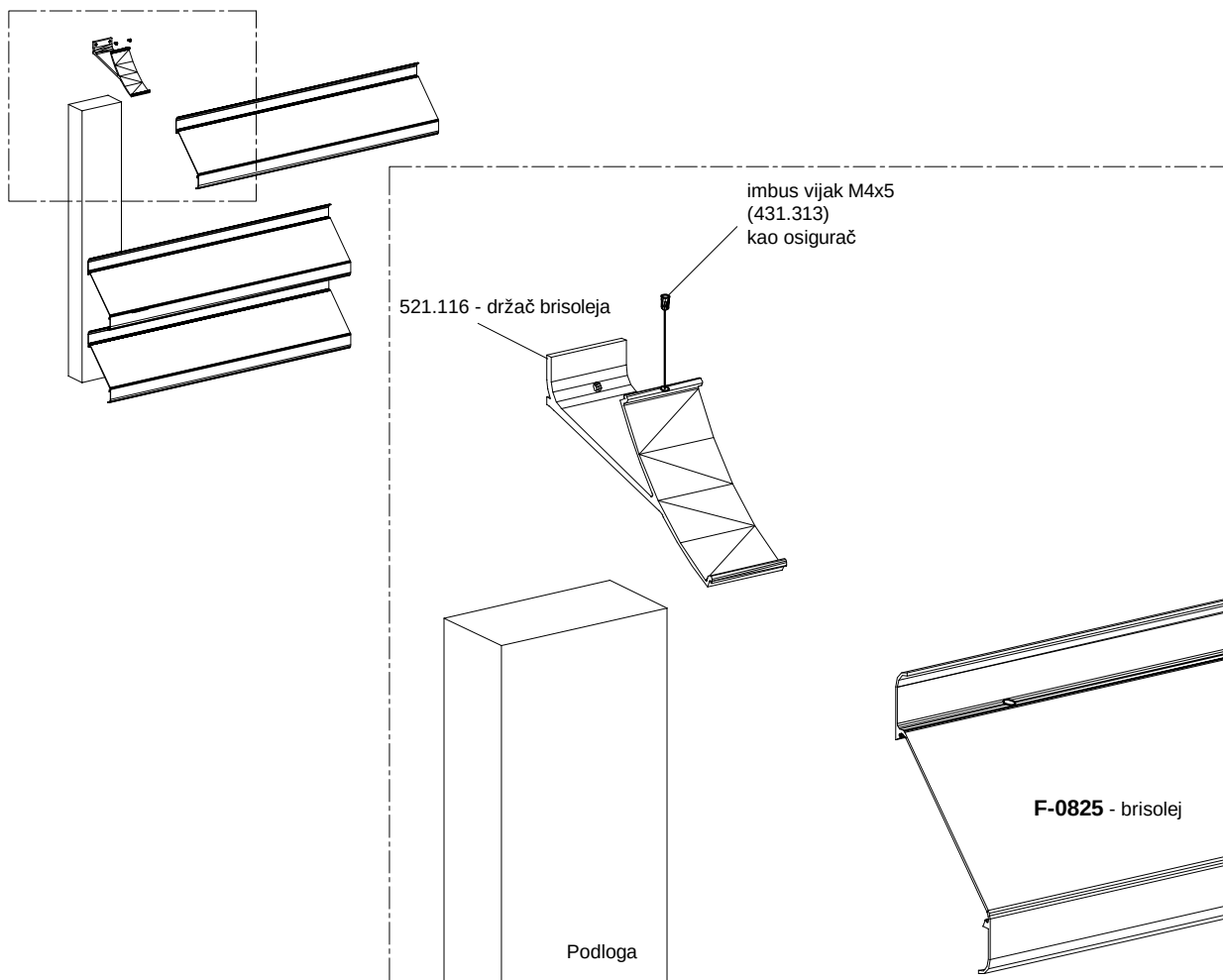
UGRADNJA BEZ VODILICE - DIREKTNO NA PODLOGU



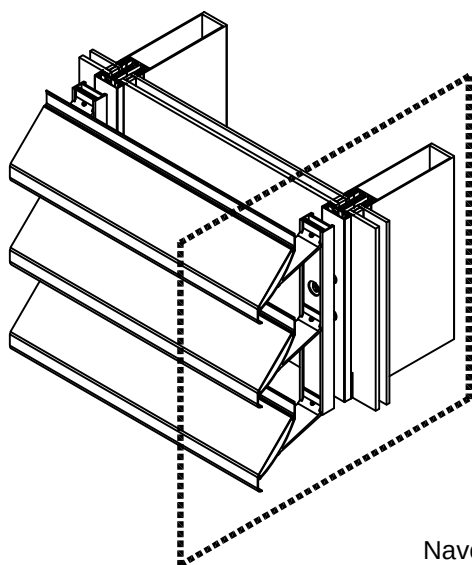
UGRADNJA VODORAVNIH BRISOLEJA NA AL.FASADU 60 K



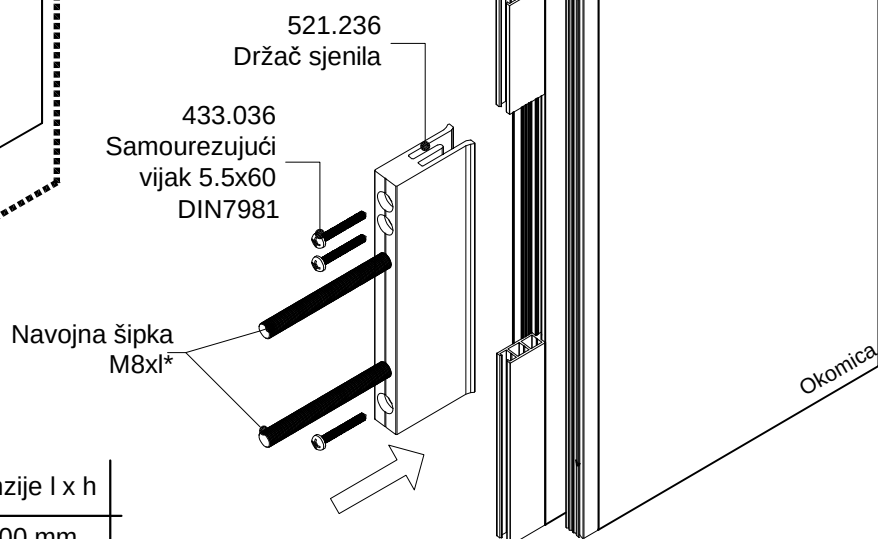
UGRADNJA BEZ VODILICE - DIREKTNO NA PODLOGU



Montaža sjenila F-0825

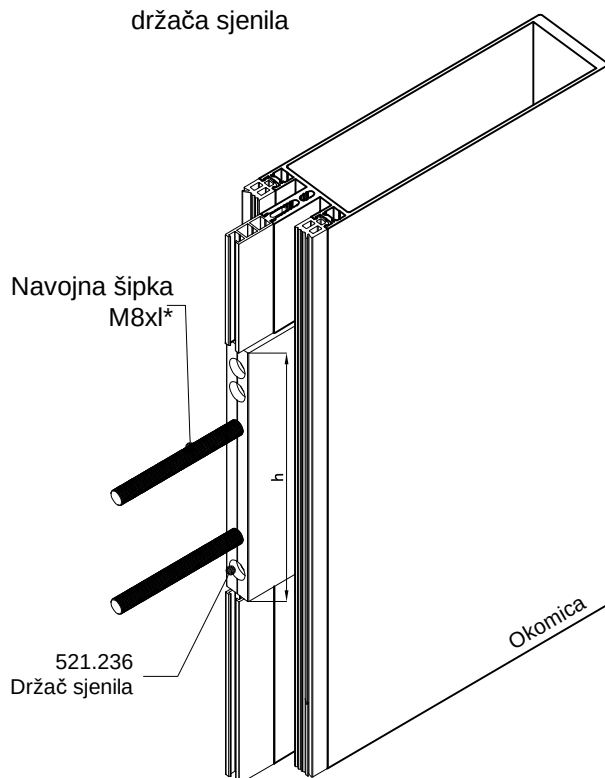


1. Montaža držača sjenila 521.236 na okomicu

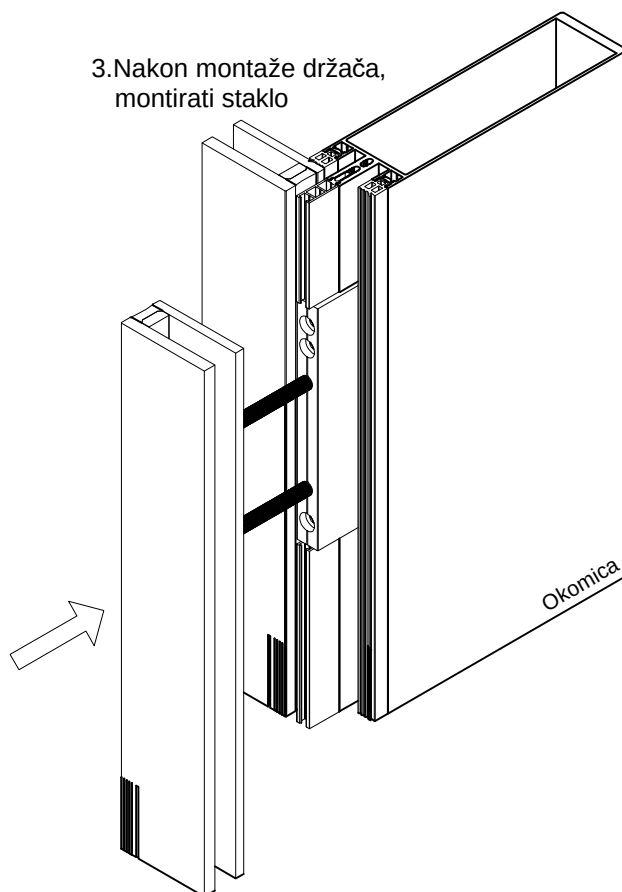


Držač sjenila	Vijci	Dimenzije l x h
521.235	433.206	50x100 mm
521.236	433.206	50x160 mm
521.237	433.207	70x100 mm
521.238	433.207	70x160 mm

2. Prikaz nakon završene montaže držača sjenila

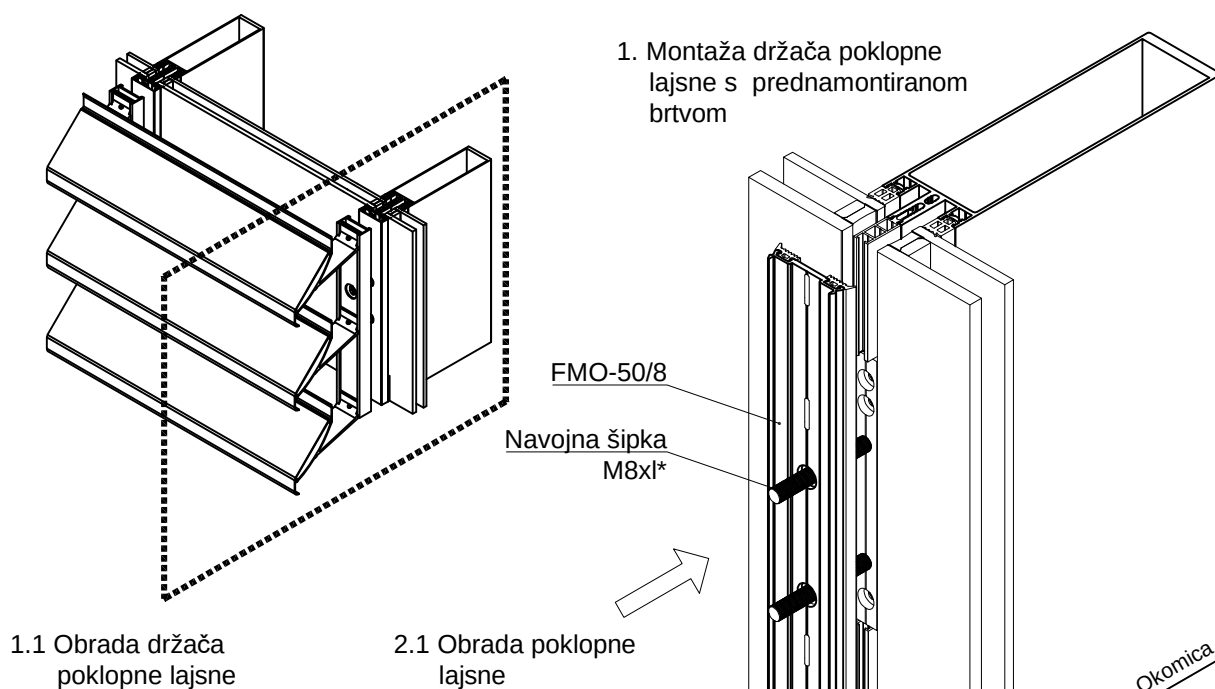


3. Nakon montaže držača, montirati staklo



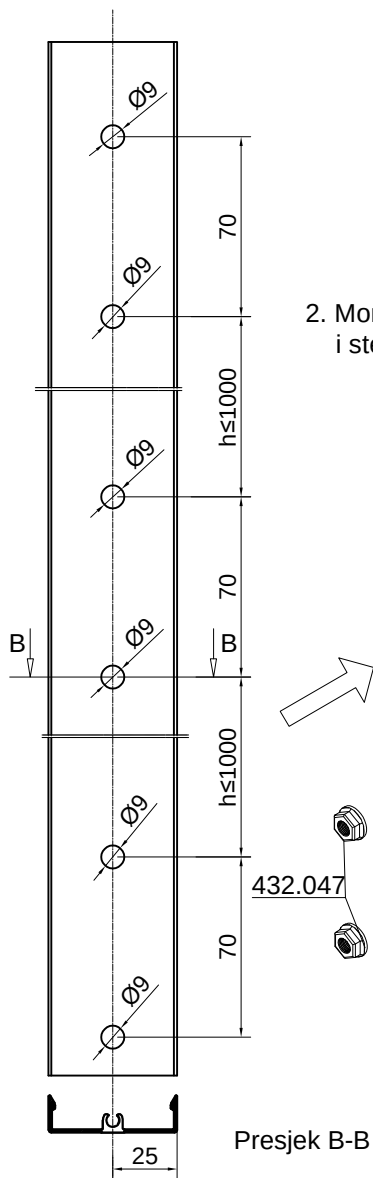
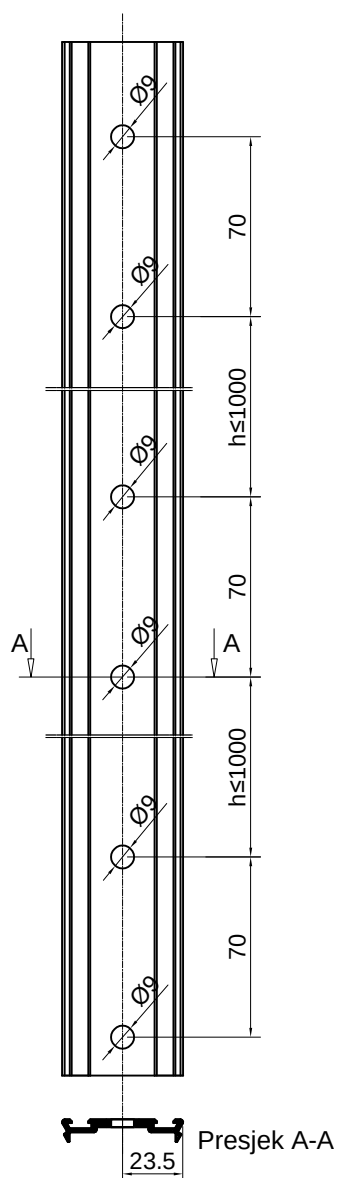
I*-ovisno o razmaku između fasade i sjenila
max 100mm

Montaža sjenila F-0825

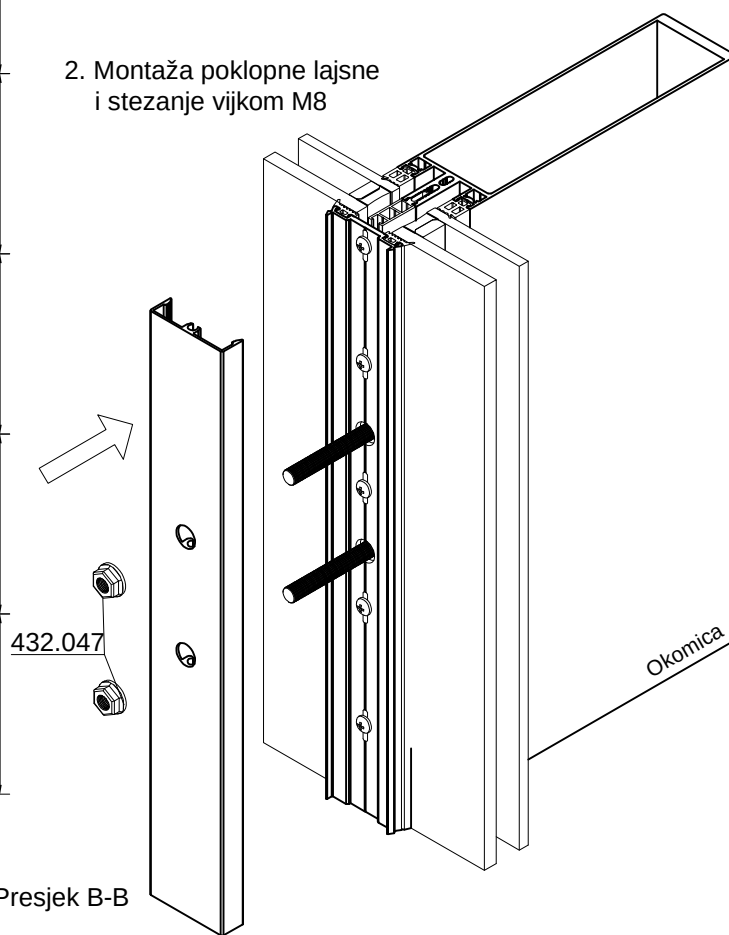


1.1 Obrada držača poklopne lajsne

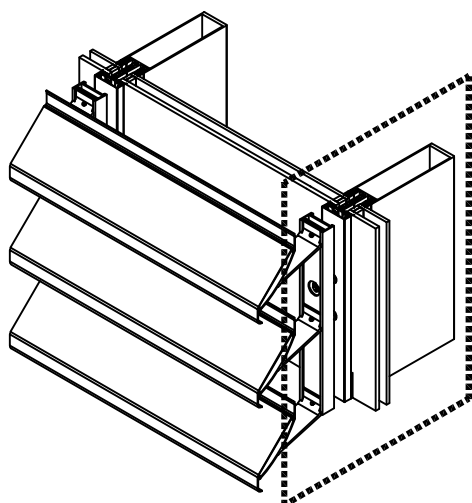
2.1 Obrada poklopne lajsne



2. Montaža poklopne lajsne i stezanje vijkom M8



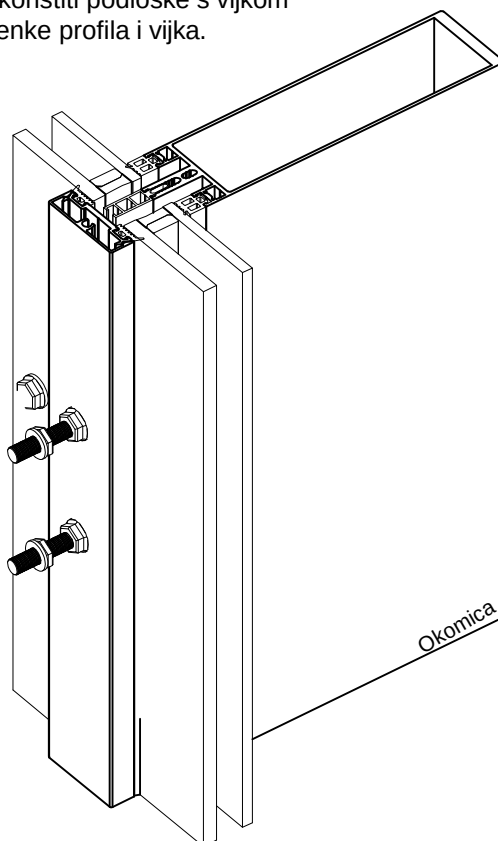
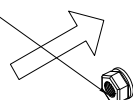
Montaža nosača sjenila (MF-1013)



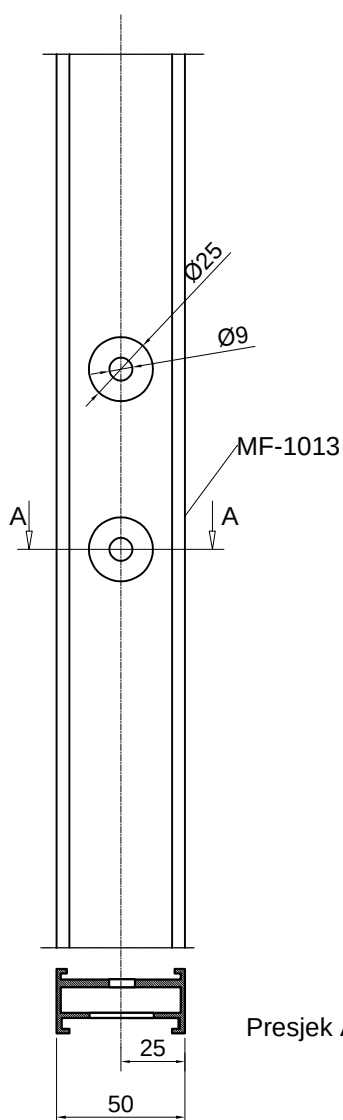
1. Profil okomice (MF-1013) nakon obrade montirati na navojnu šipku. Obavezno koristiti podloške s vijkom između stijenke profila i vijka.

432.047
Matica sa prirubnicom
DIN 6923 M8

MF-1013

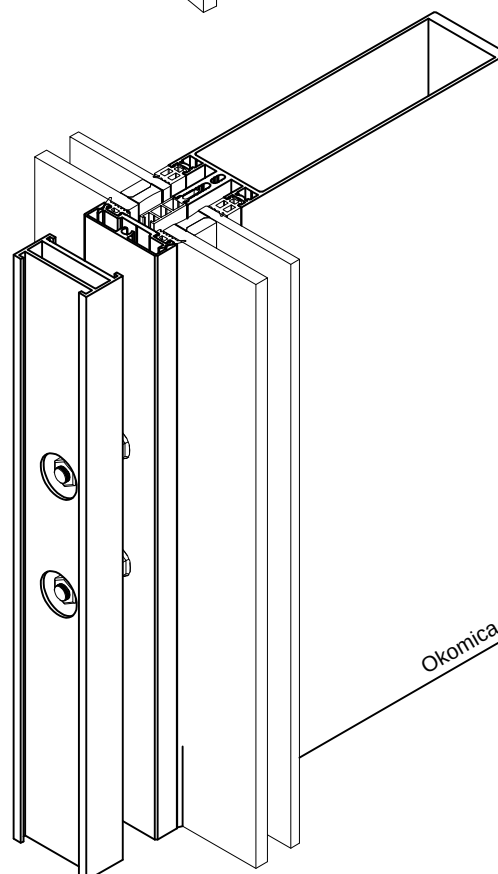


Okomica



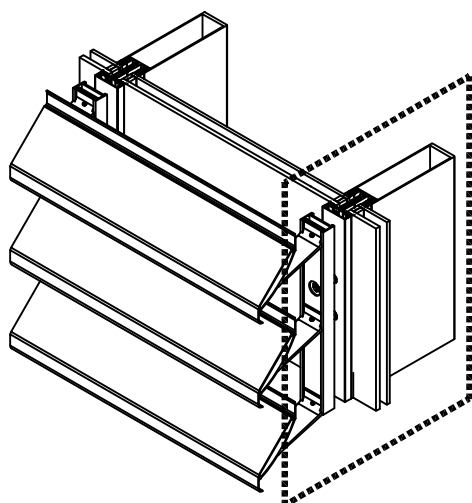
Presjek A-A

2. Nakon pozicioniranja okomice stegnuti vijke

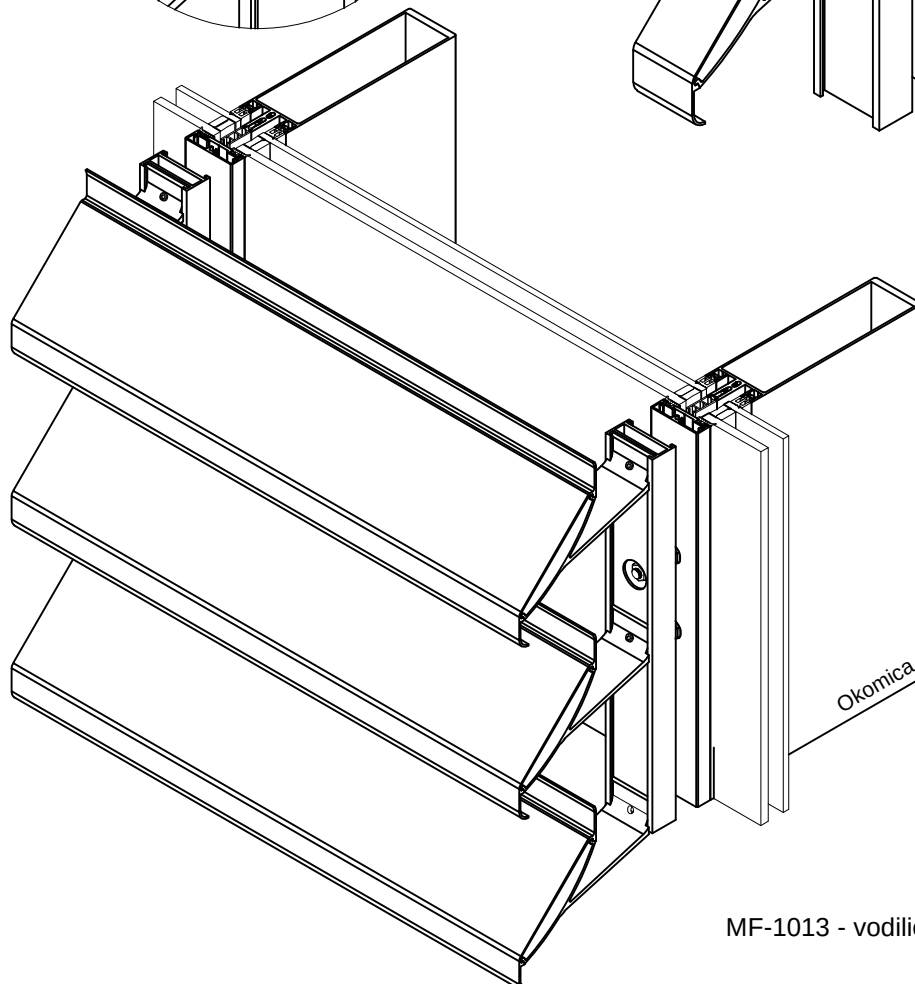
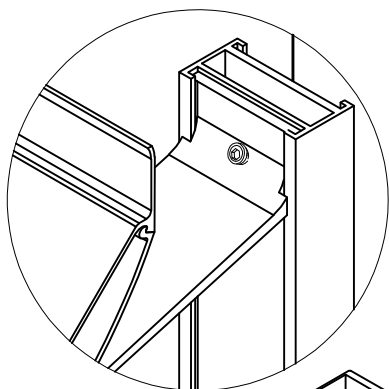
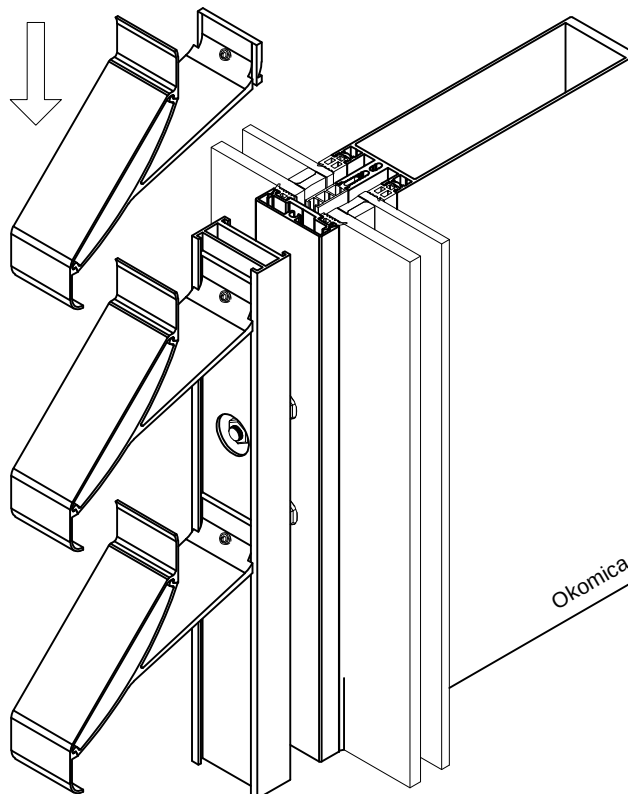


Okomica

Montaža sjenila F-0825



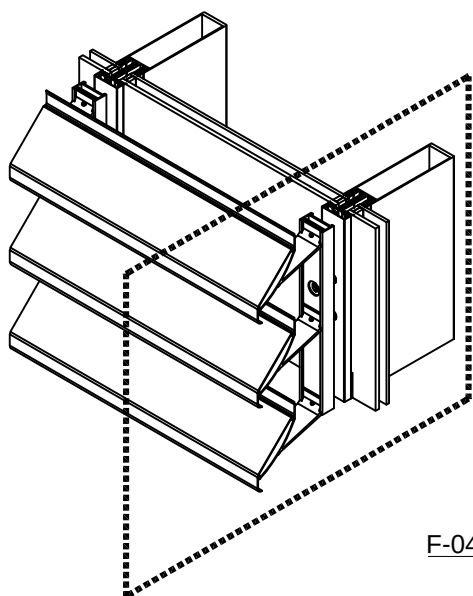
1. Nosač sjenila 521.116 montirati u okomicu MF-1013 i stegnuti imbus vijkom



521.116 - držač brisoleja
MF-1012 - brisolej

MF-1013 - vodilica za prihvat držača brisoleja

Montaža sjenila F-0770



1. Nakon montaže fasade na navojnu šipku montirati profil okomice F-xxx. Obavezno koristiti podloške s vijkom između stijenke profila i vijka.

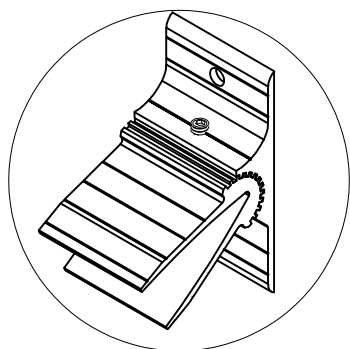
FMO-50/8

FMO-50/22

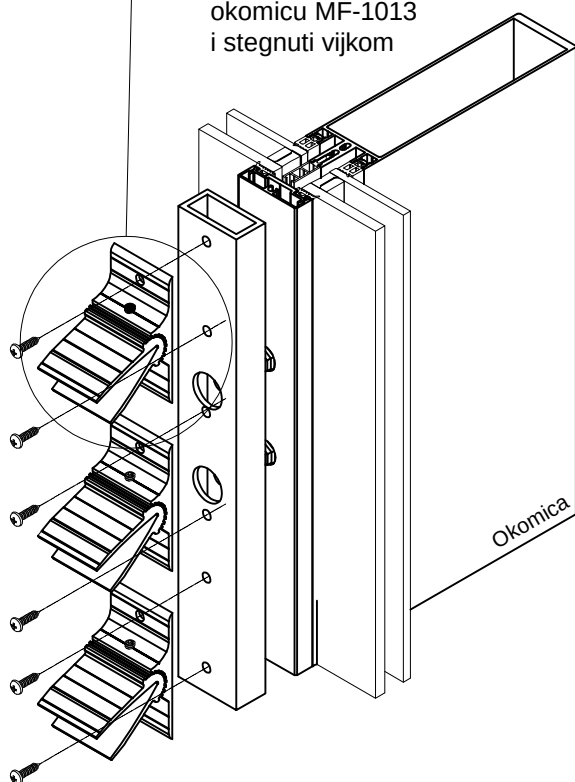
F-0489/A

432.047
Matica sa
prirubnicom
DIN 6923 M8

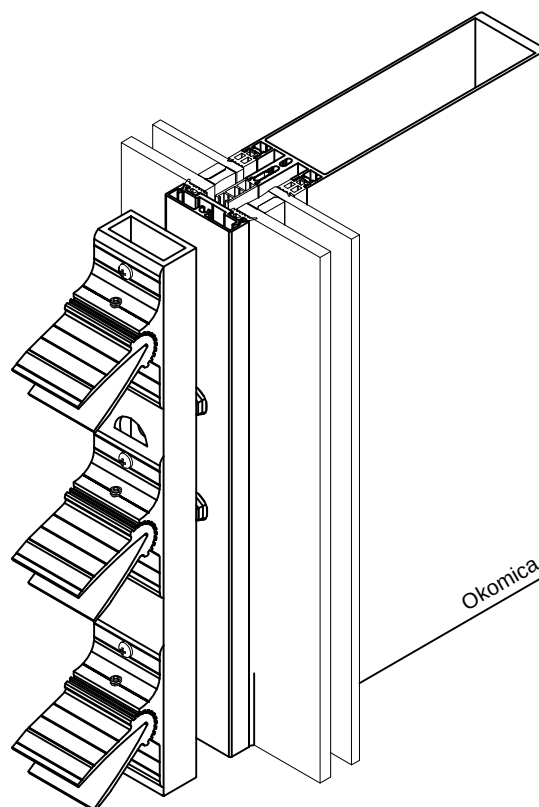
Okomica



1. Nosač sjenila 521.120 montirati u okomicu MF-1013 i stegnuti vijkom

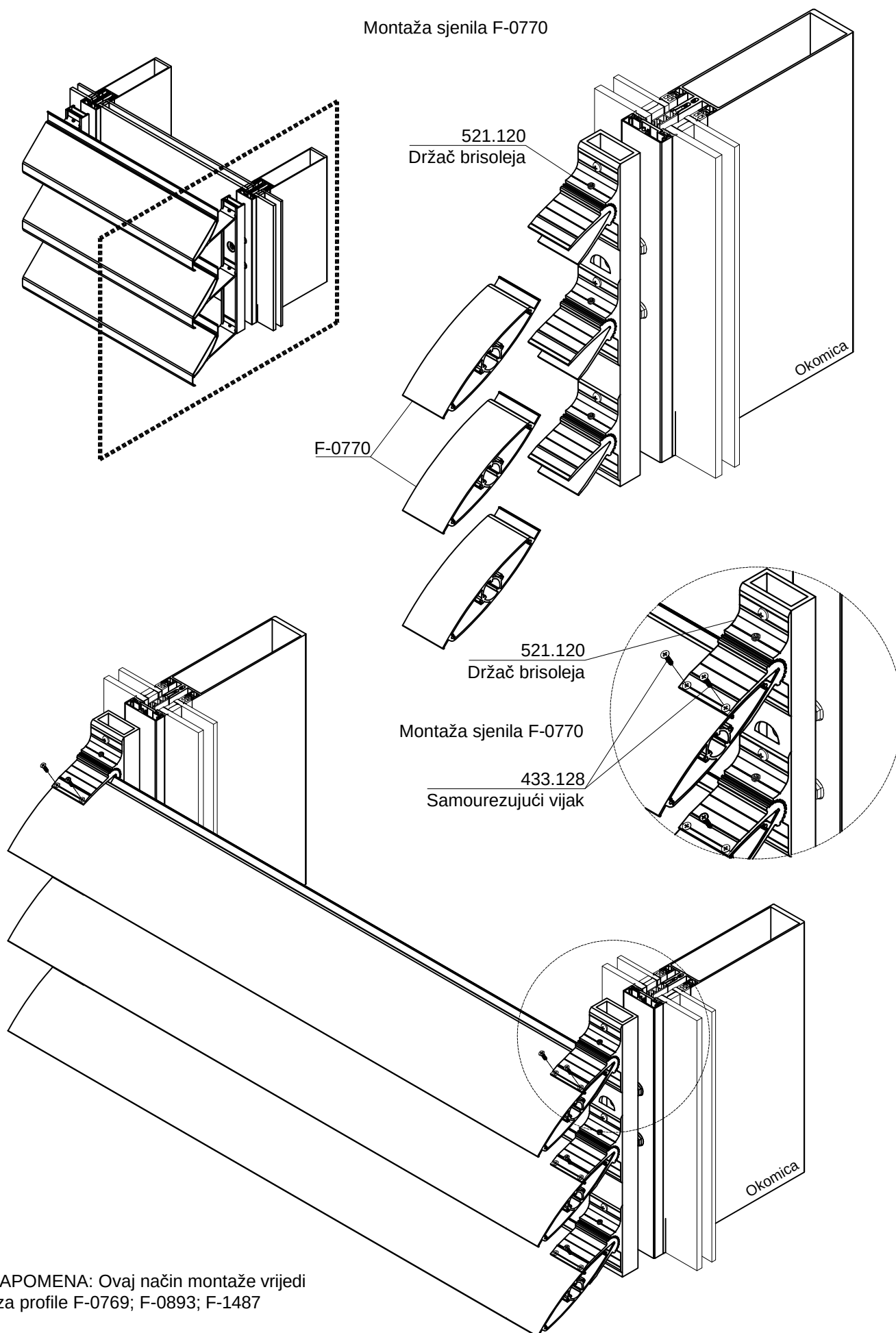


Okomica



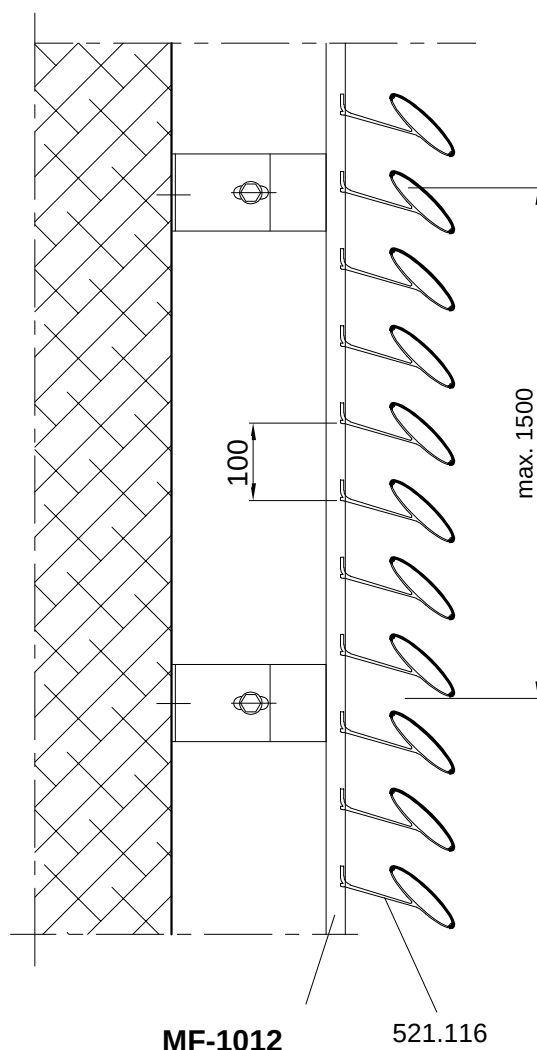
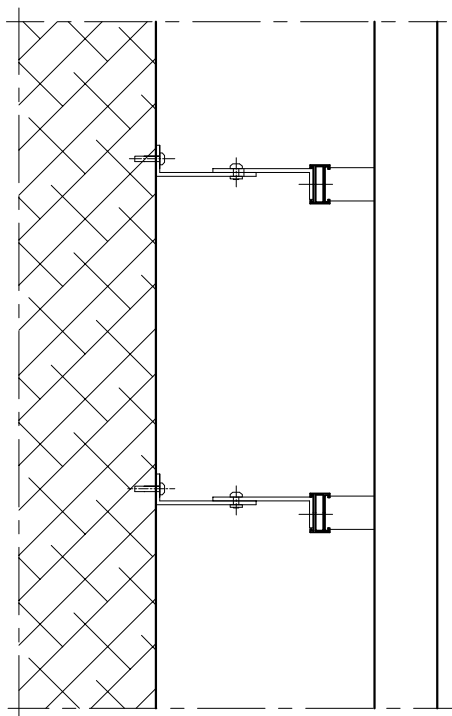
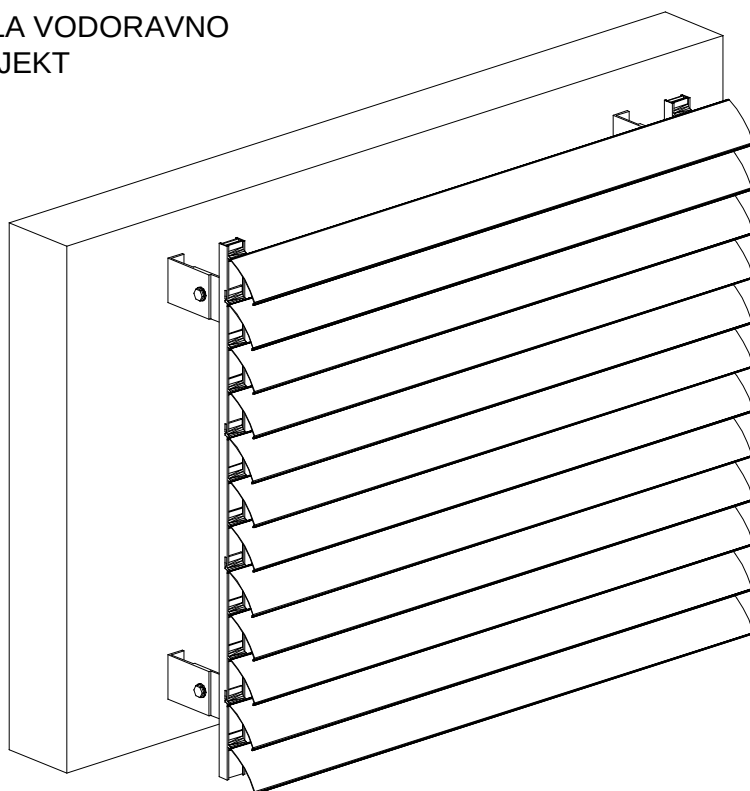
Okomica

Montaža sjenila F-0770



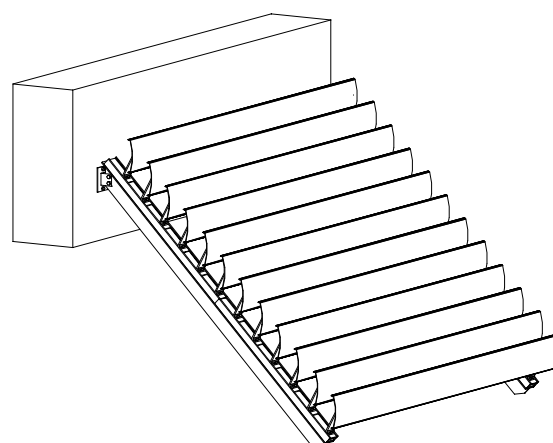
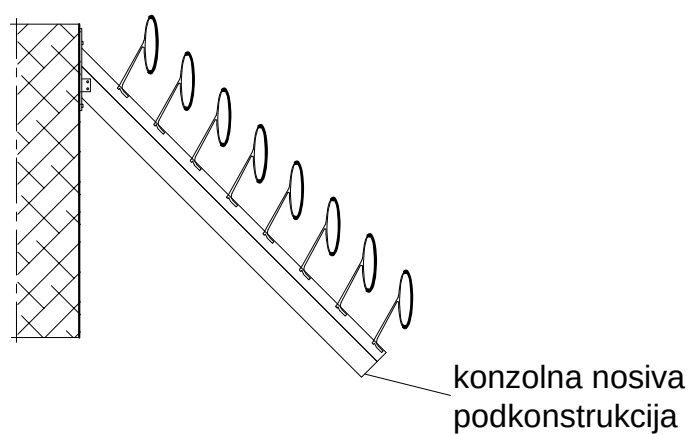
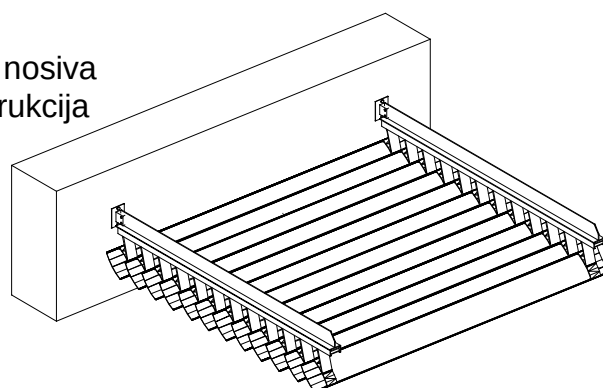
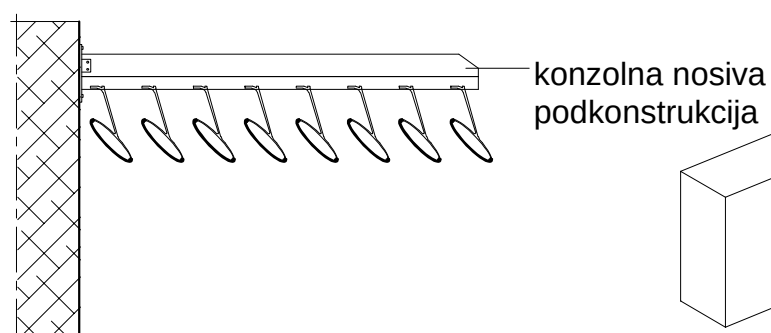
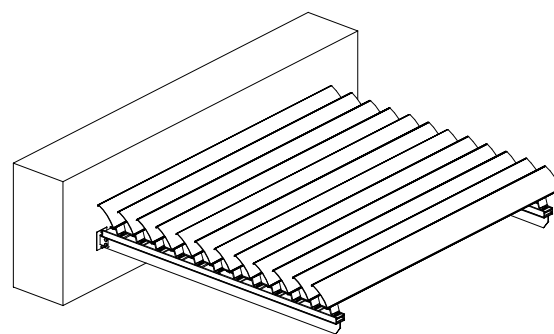
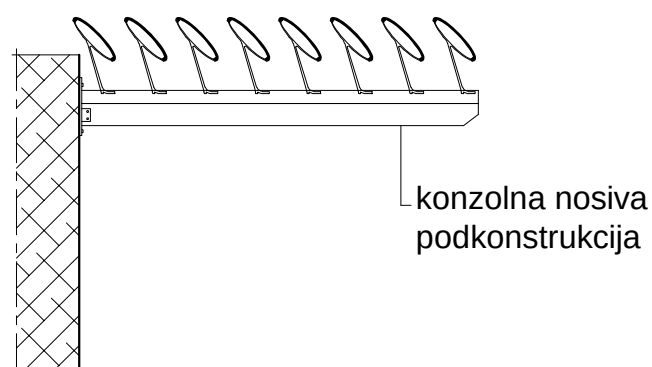
NAPOMENA: Ovaj način montaže vrijedi
i za profile F-0769; F-0893; F-1487

UGRADNJA LAMELA VODORAVNO U ODNOSU NA OBJEKT



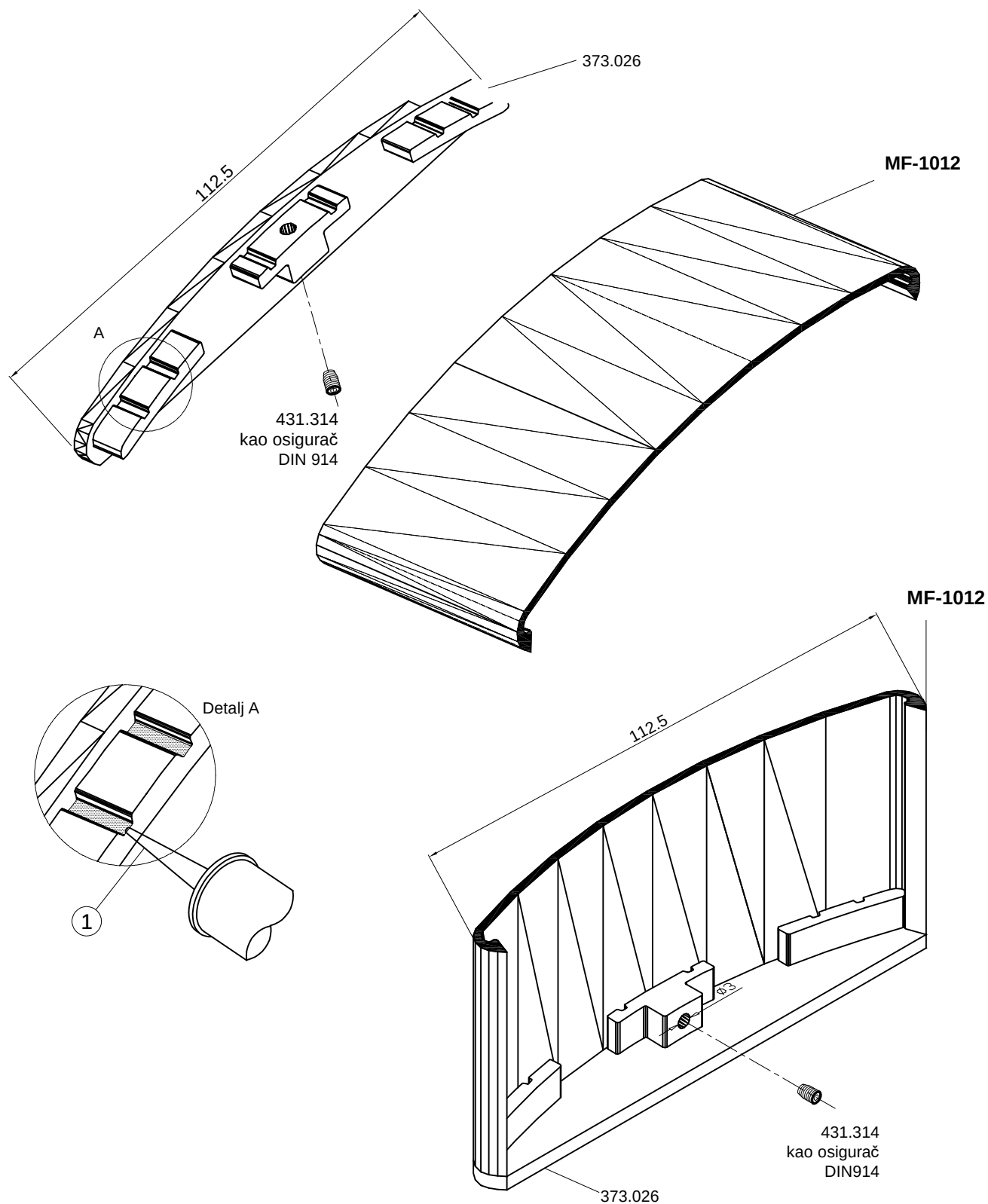
MF-1012

521.116



Montaža

UGRADNJA ČEPA NA LAMELU BRISOLEJA

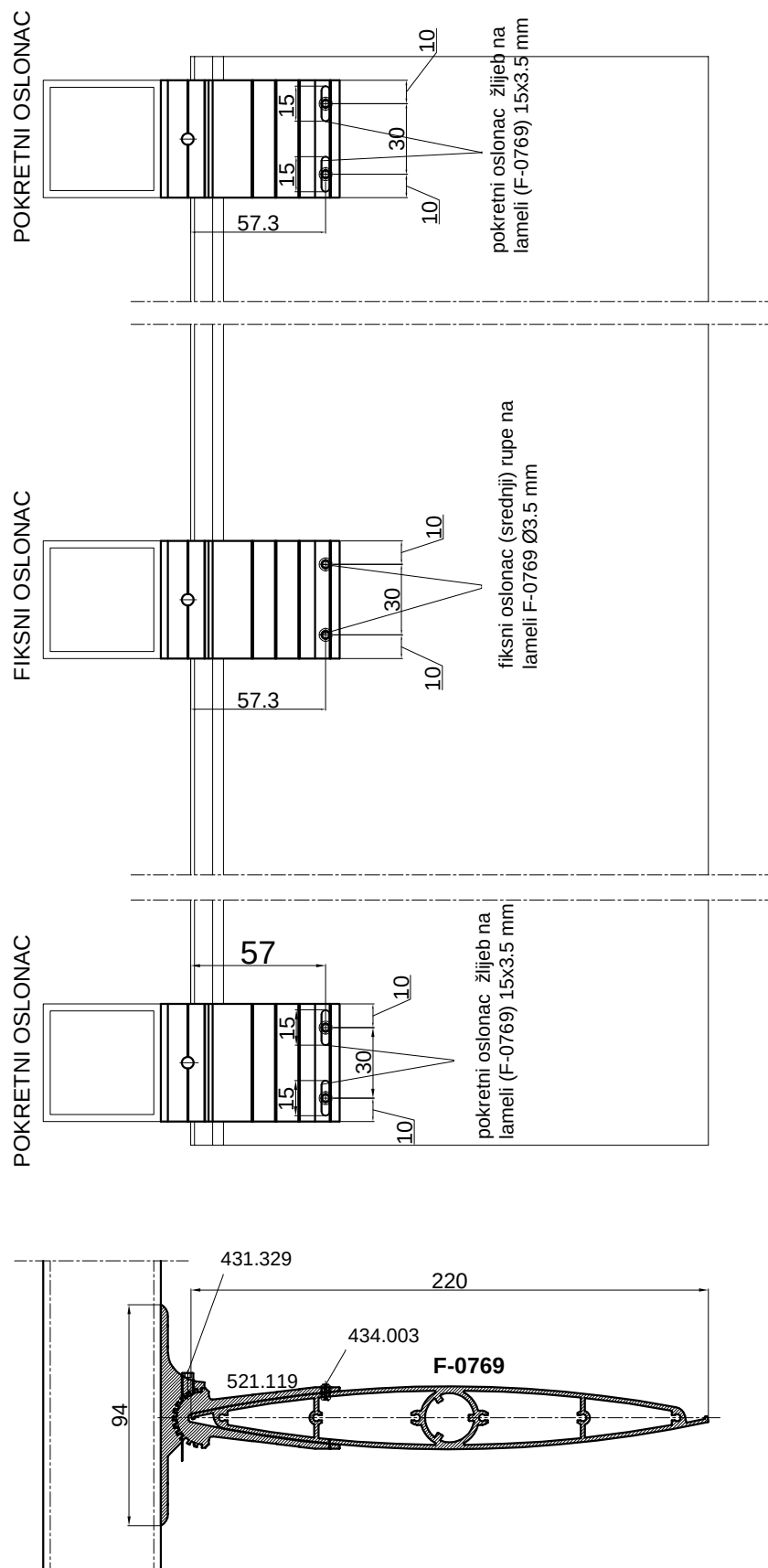


MF-1012 - lamela brisoleja

373.026 - bočni čep za lamelu brisoleja

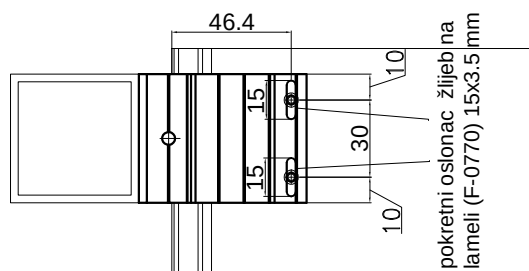
1 - utore na čepu popuniti ljepilom za metal - plastika (npr. WURTH - 2-komponentno ljepilo - PUR)

-lamela 220 mm

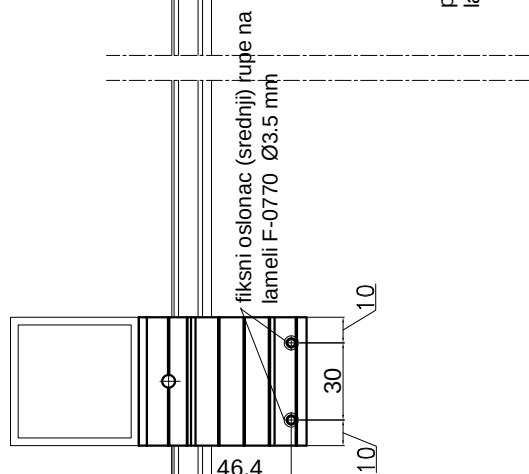


-lamela 140 mm

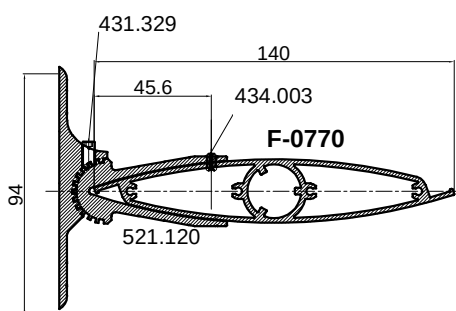
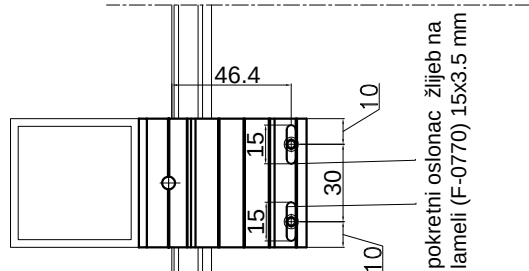
POKRETNi OSLOMAC

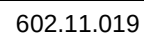


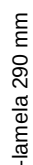
FIKSNI OSLOMAC



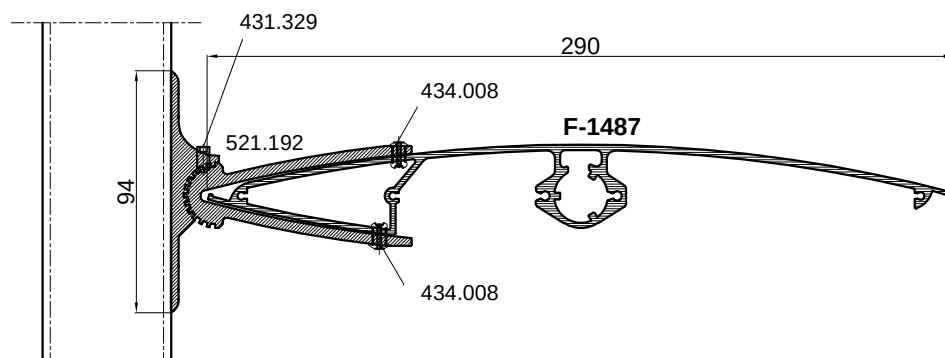
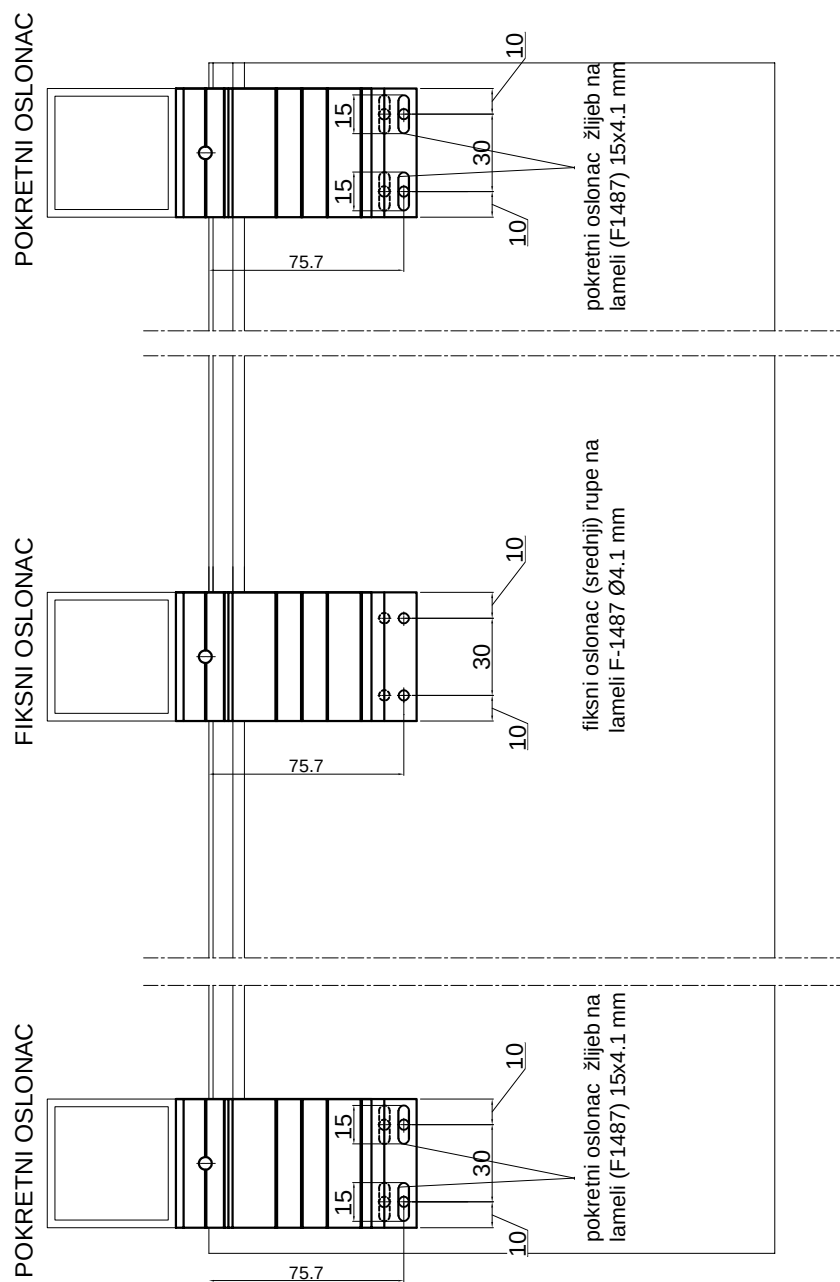
POKRETNi OSLOMAC

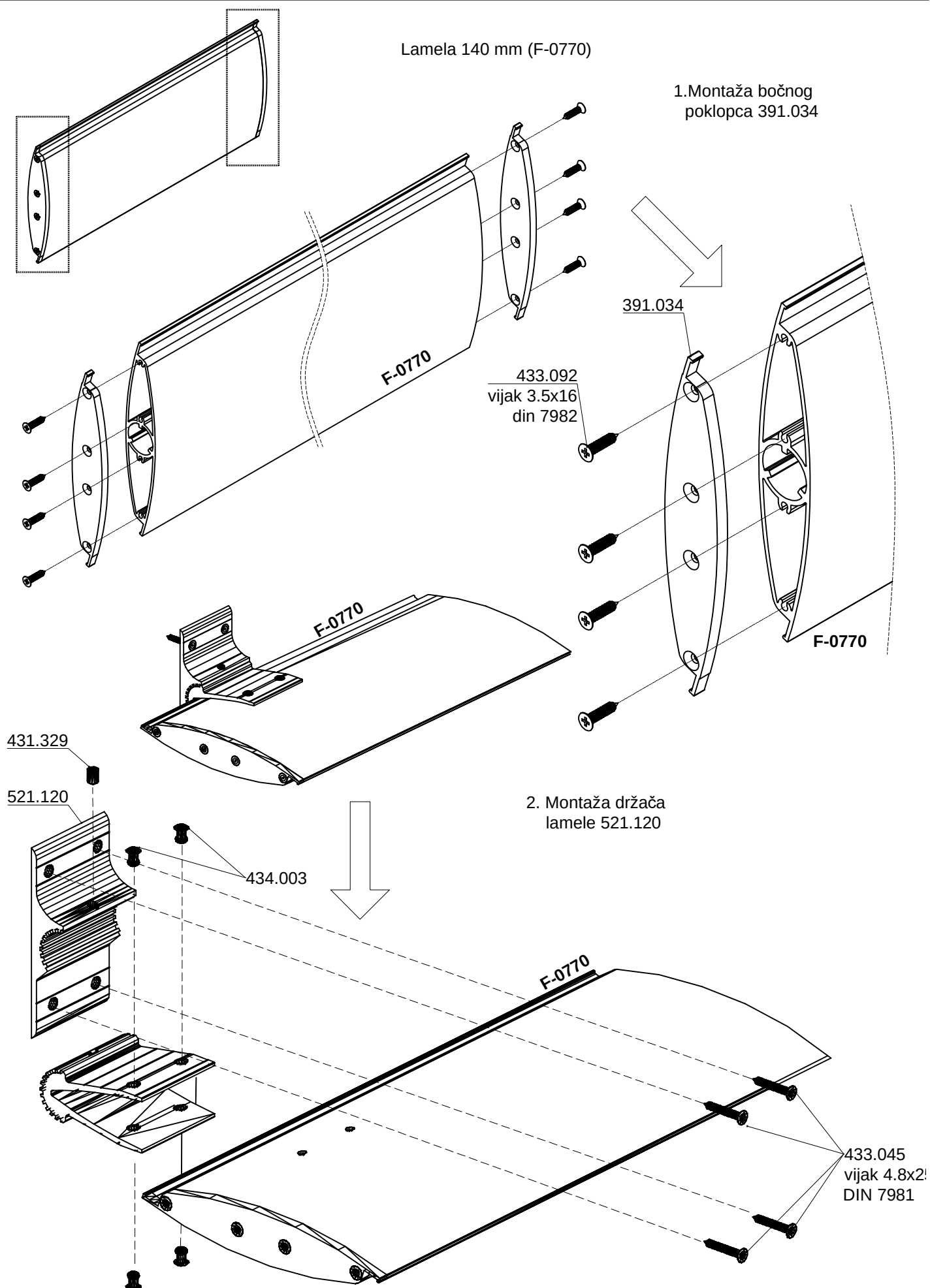






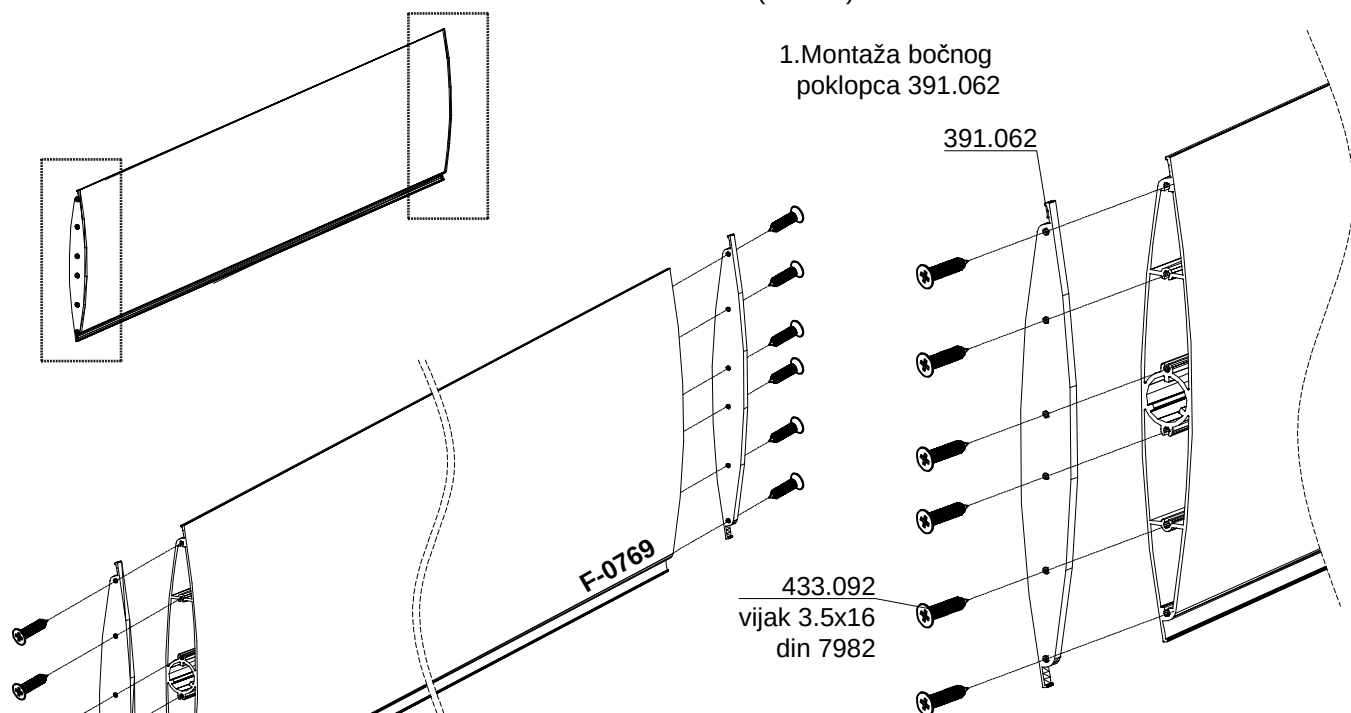
-lamela 290 mm (F1487)



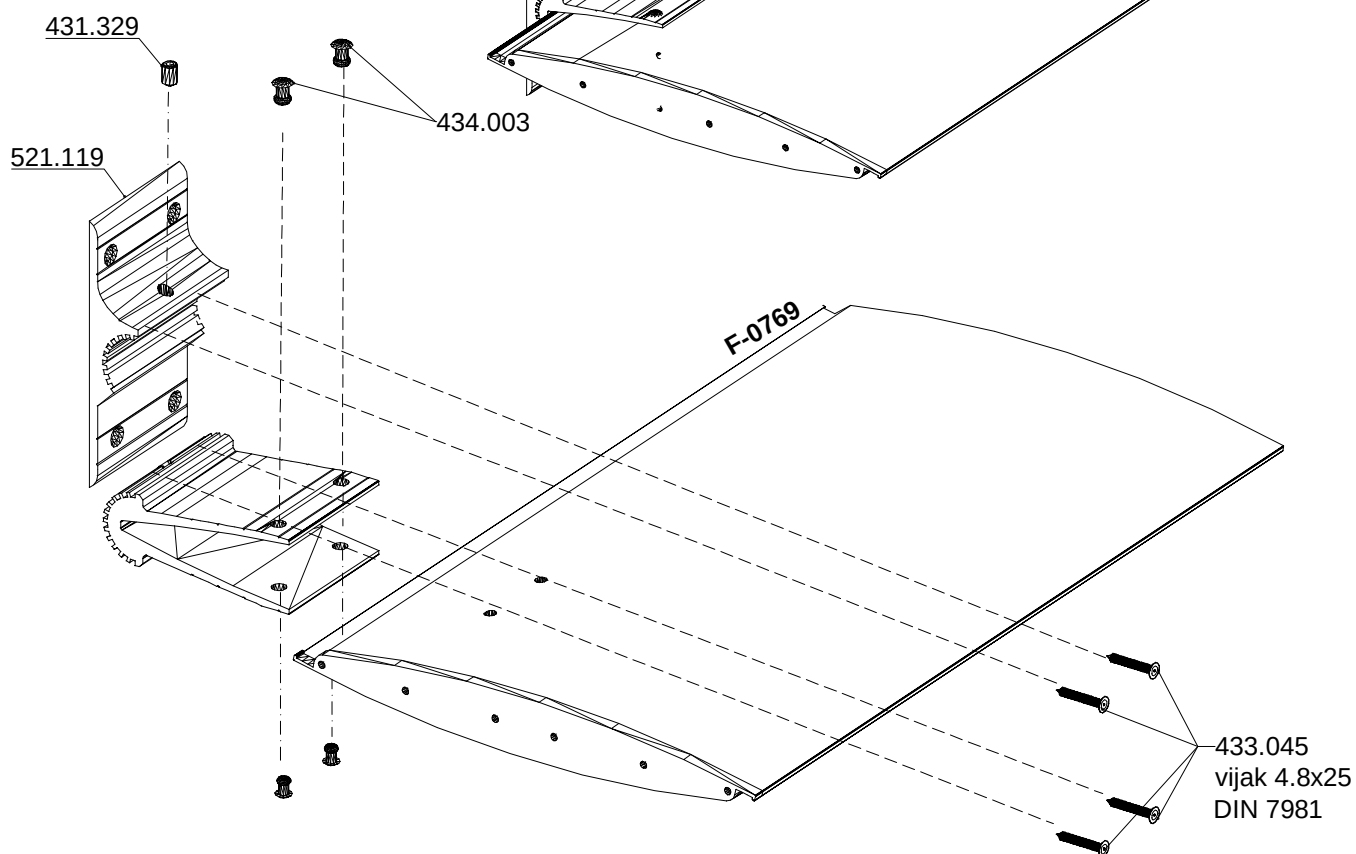


Lamela 220 mm (F-0769)

1. Montaža bočnog
poklopca 391.062

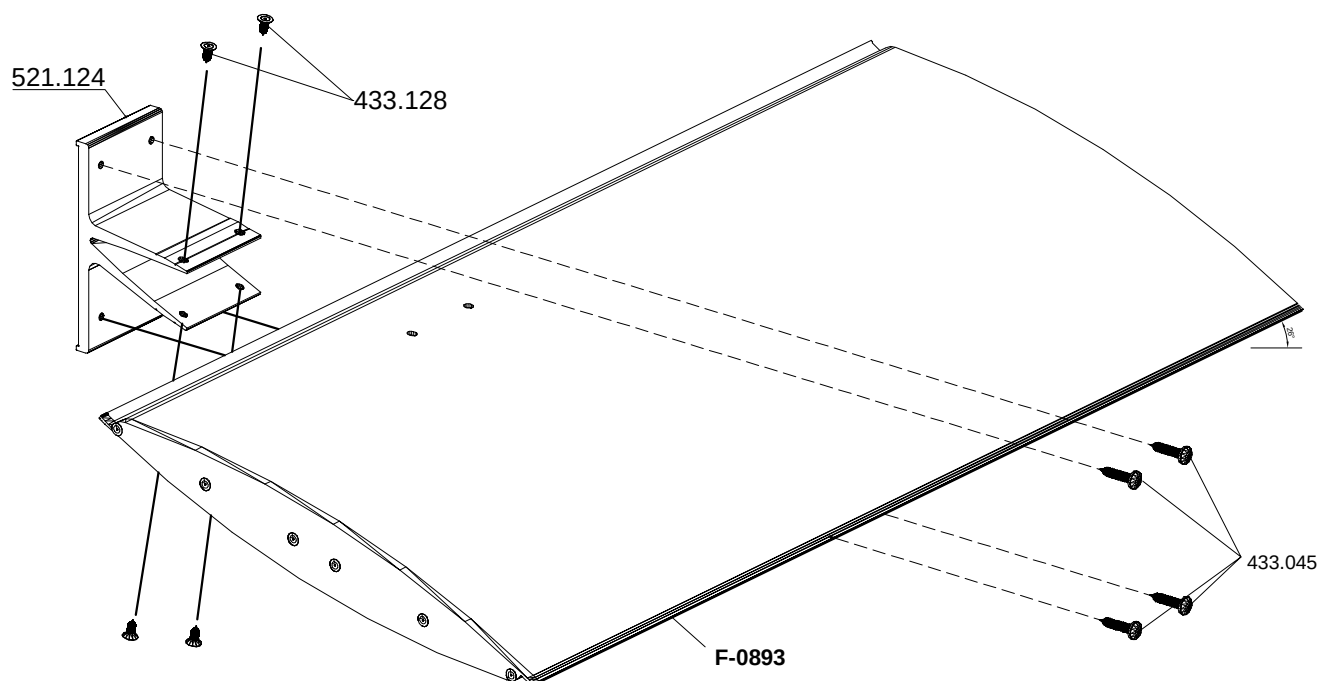
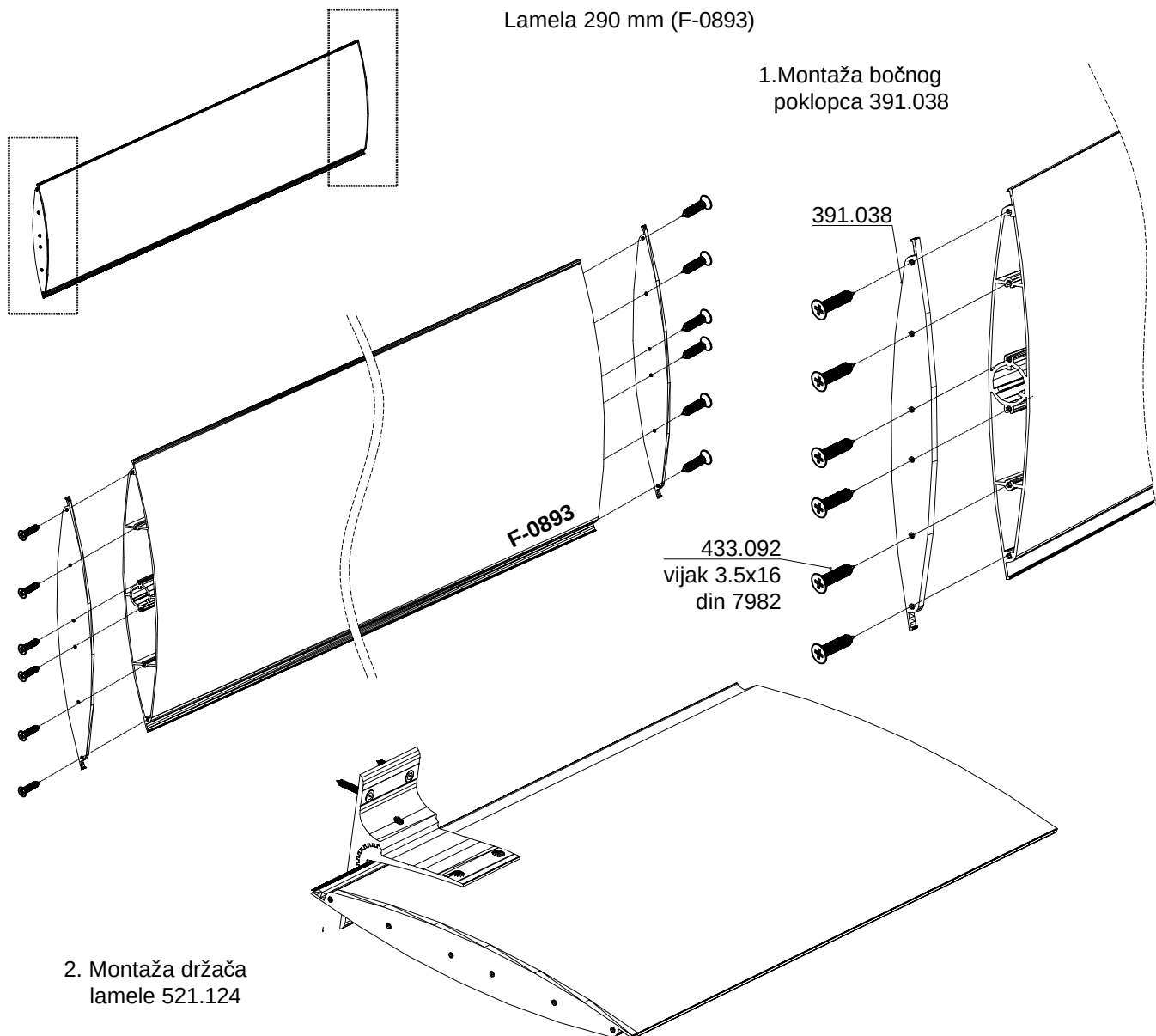


2. Montaža držača
lamela 521.119

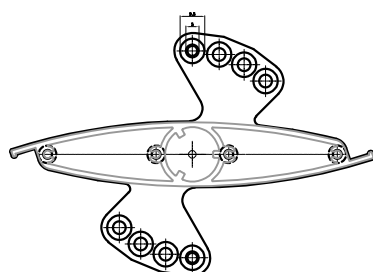
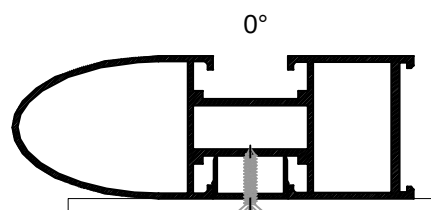


Lamela 290 mm (F-0893)

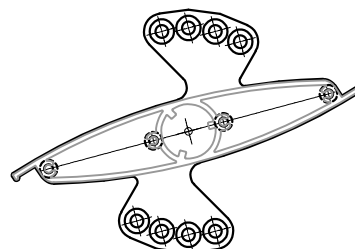
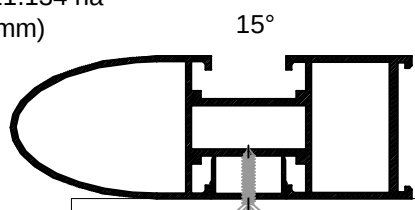
1. Montaža bočnog
poklopca 391.038



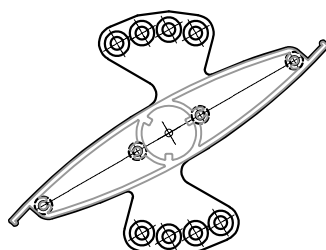
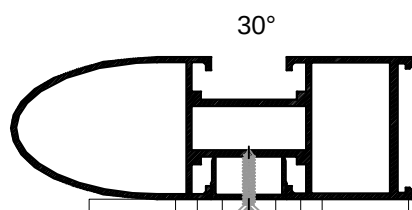
Montaža nosača 521.134 na
lamelu F-0770 (140mm)



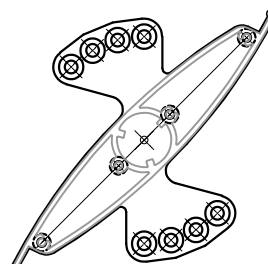
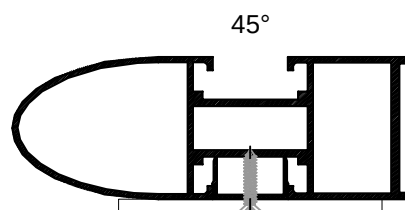
521.134



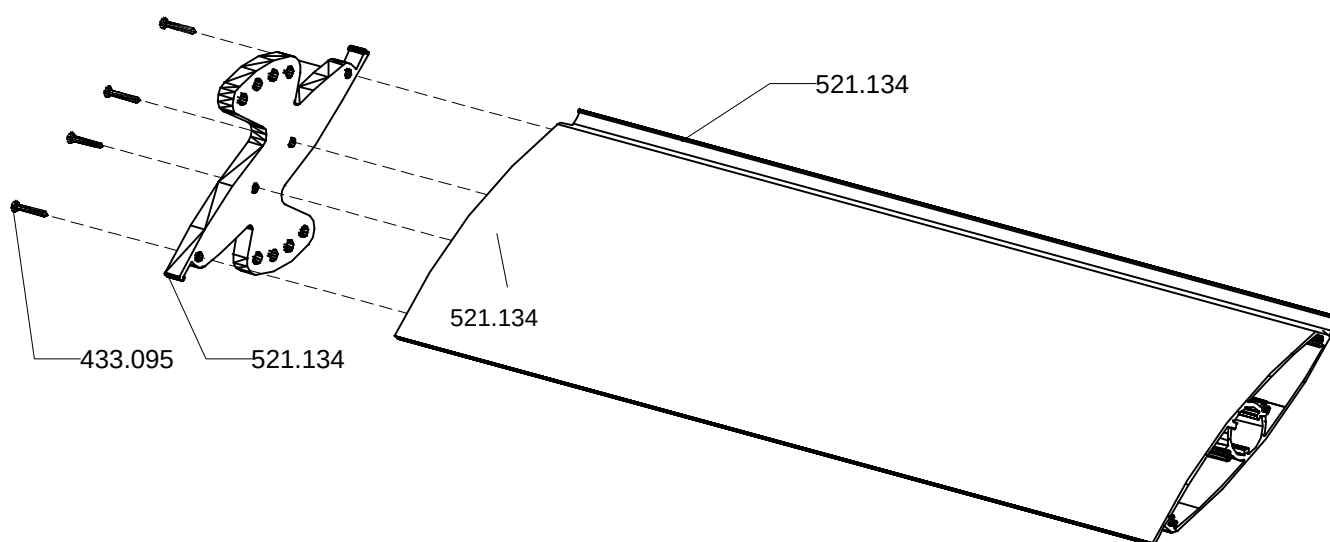
521.134



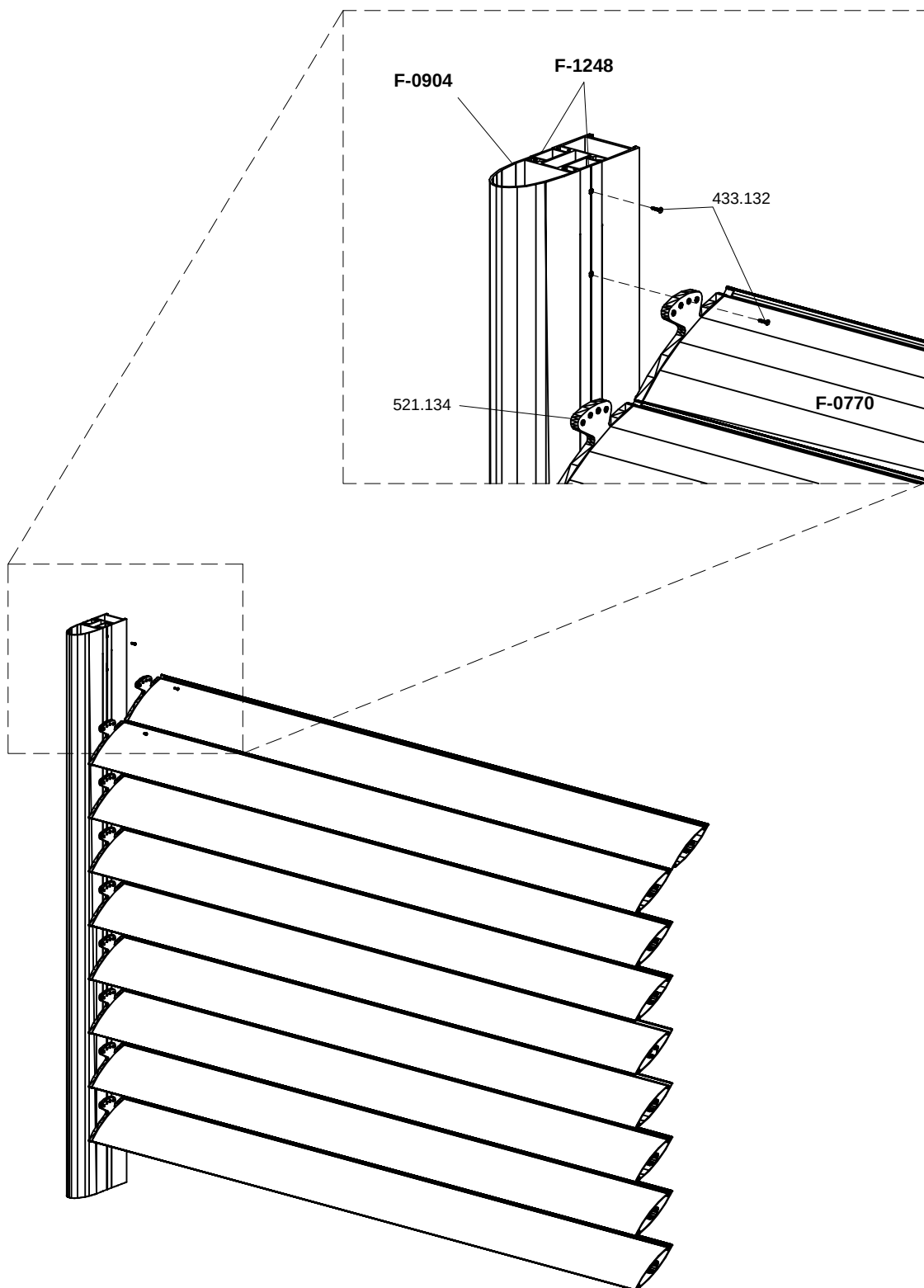
521.134



521.134

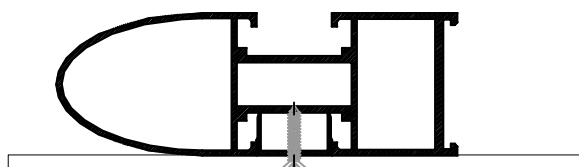


Montaža nosača 521.134 na
lamelu F-0770 (140mm)

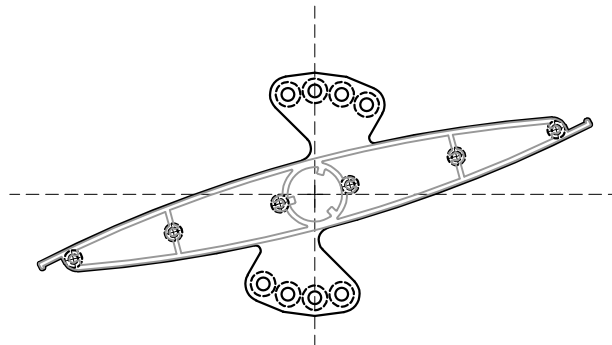
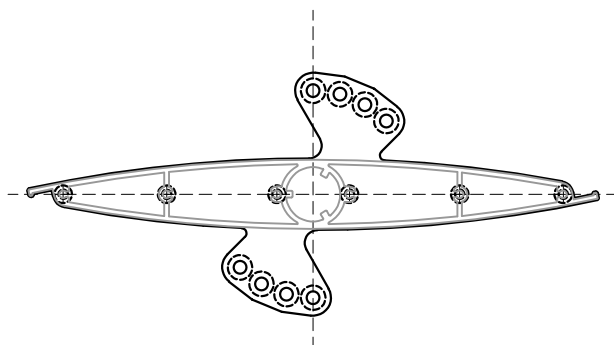
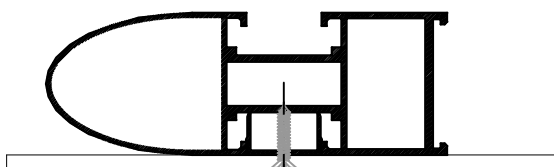


Montaža nosača 521.135 na
lamelu F-0769 (220mm)

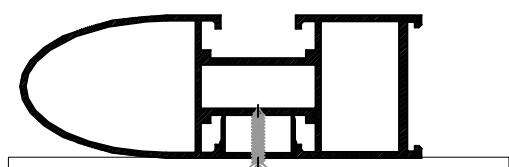
0°



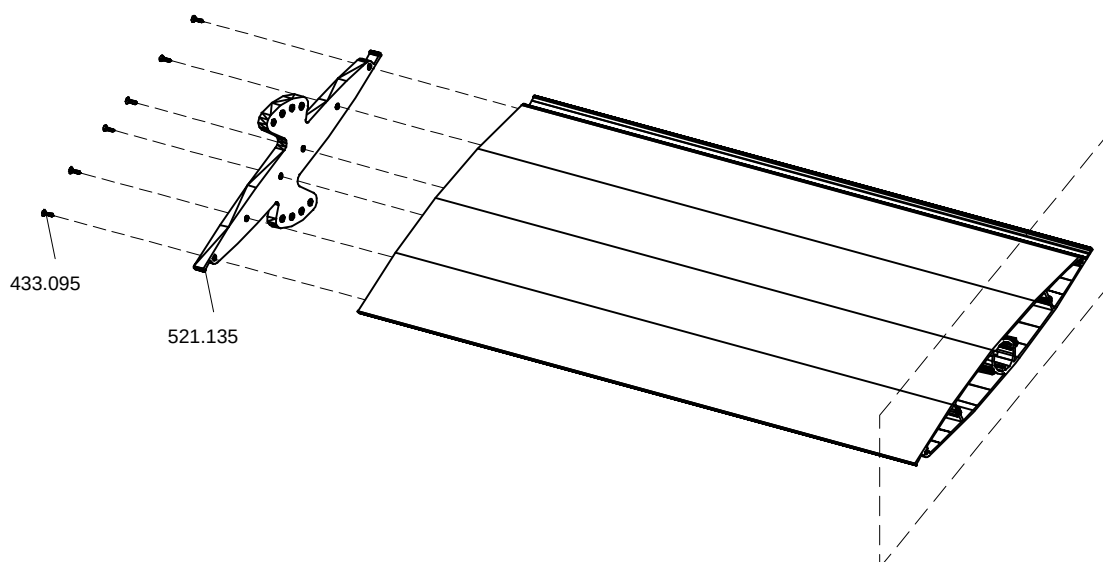
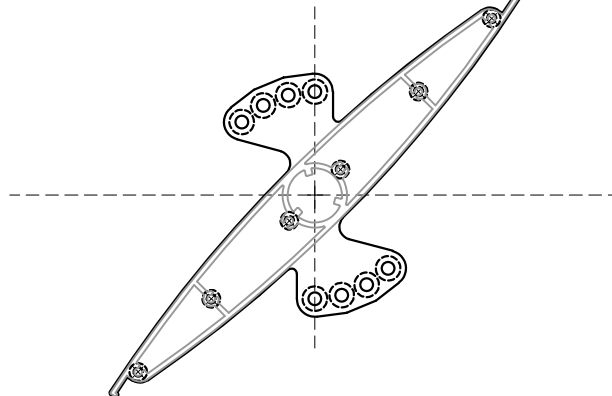
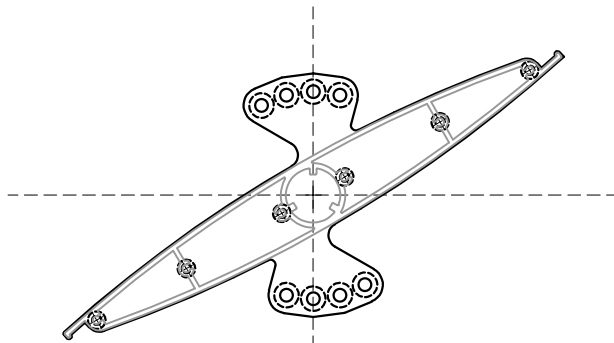
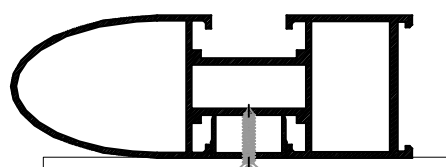
15°



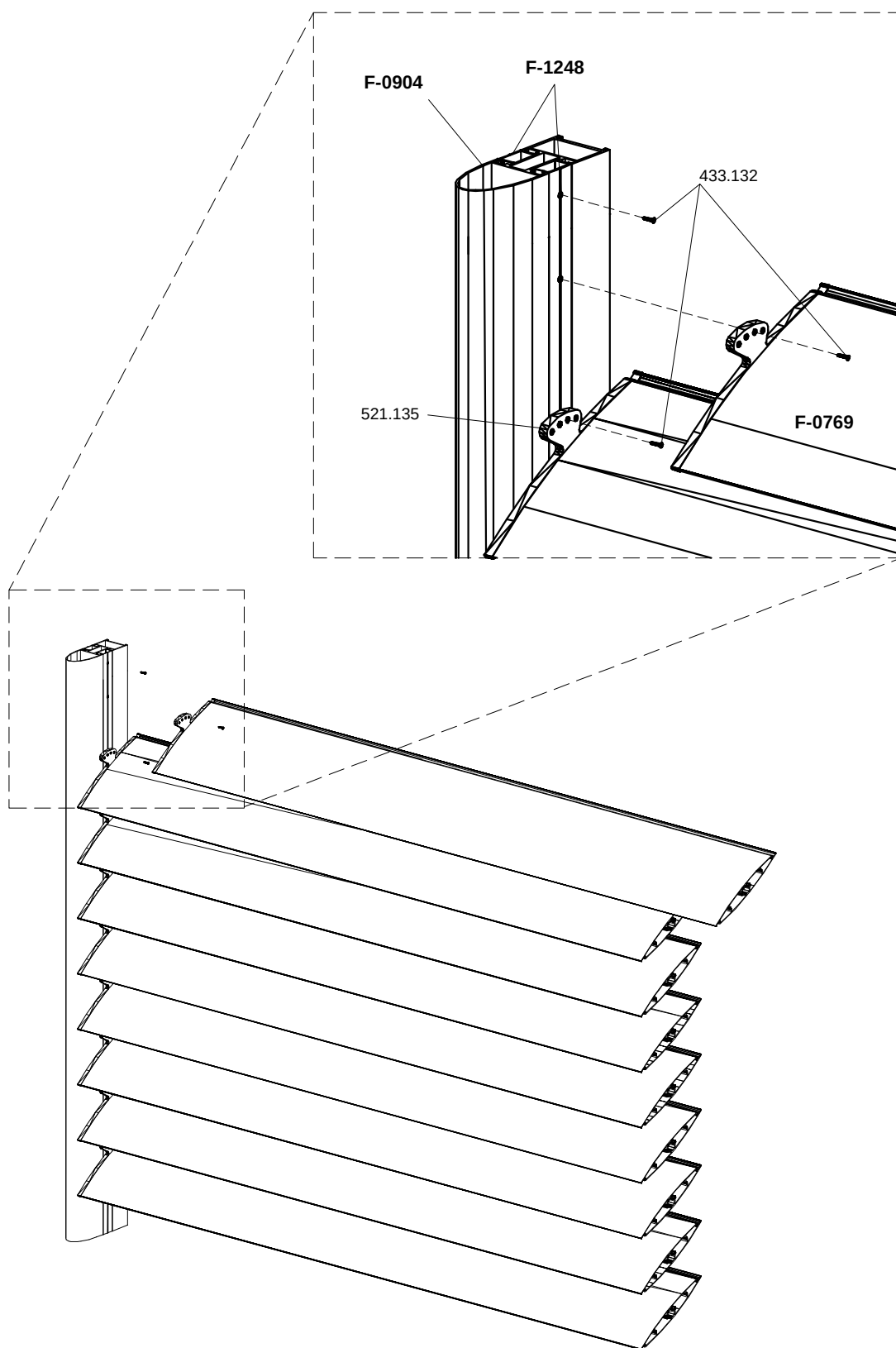
30°



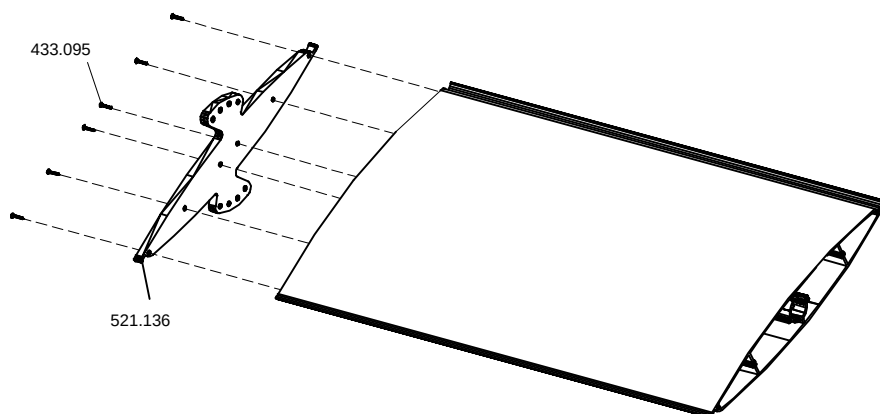
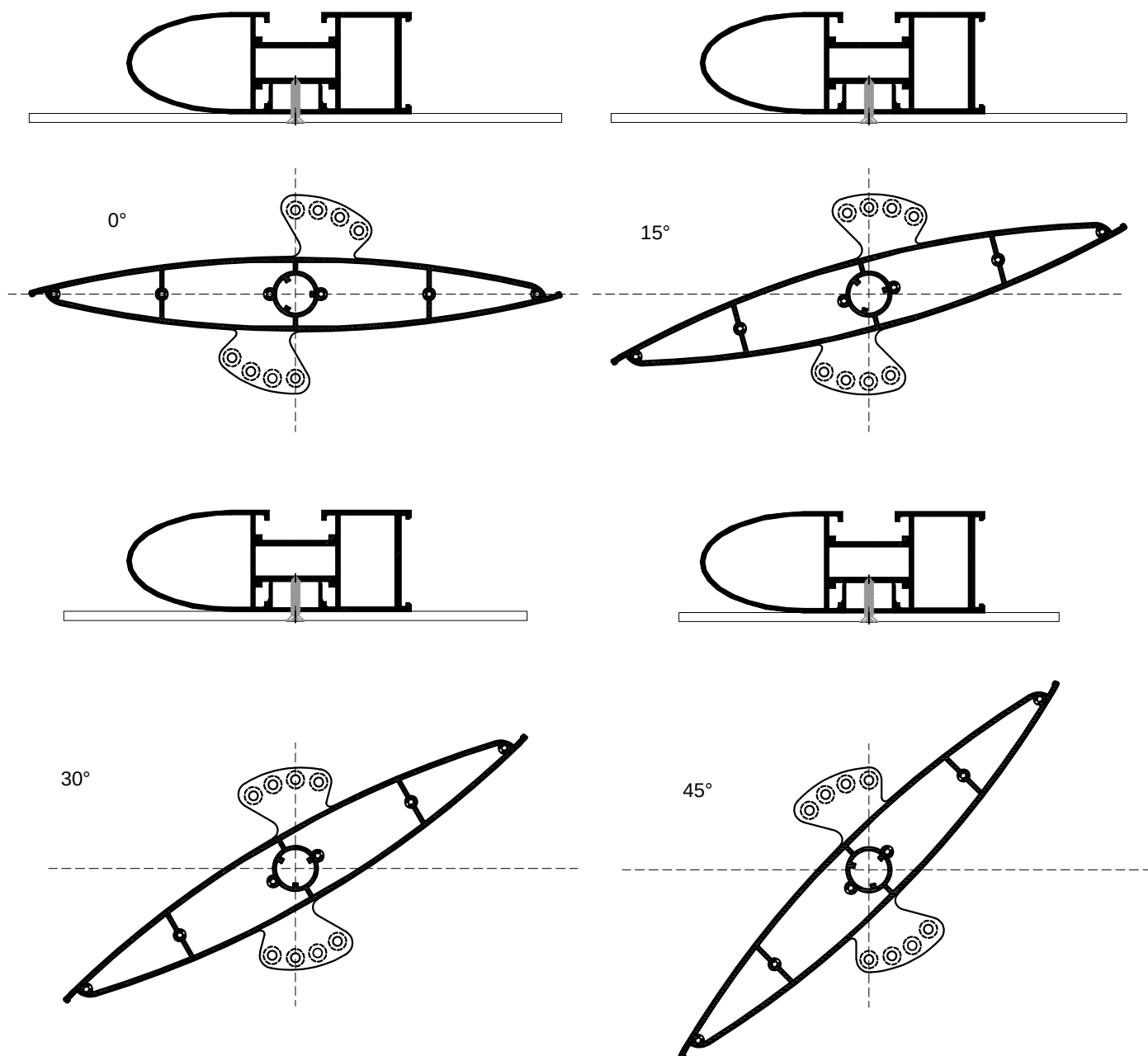
45°



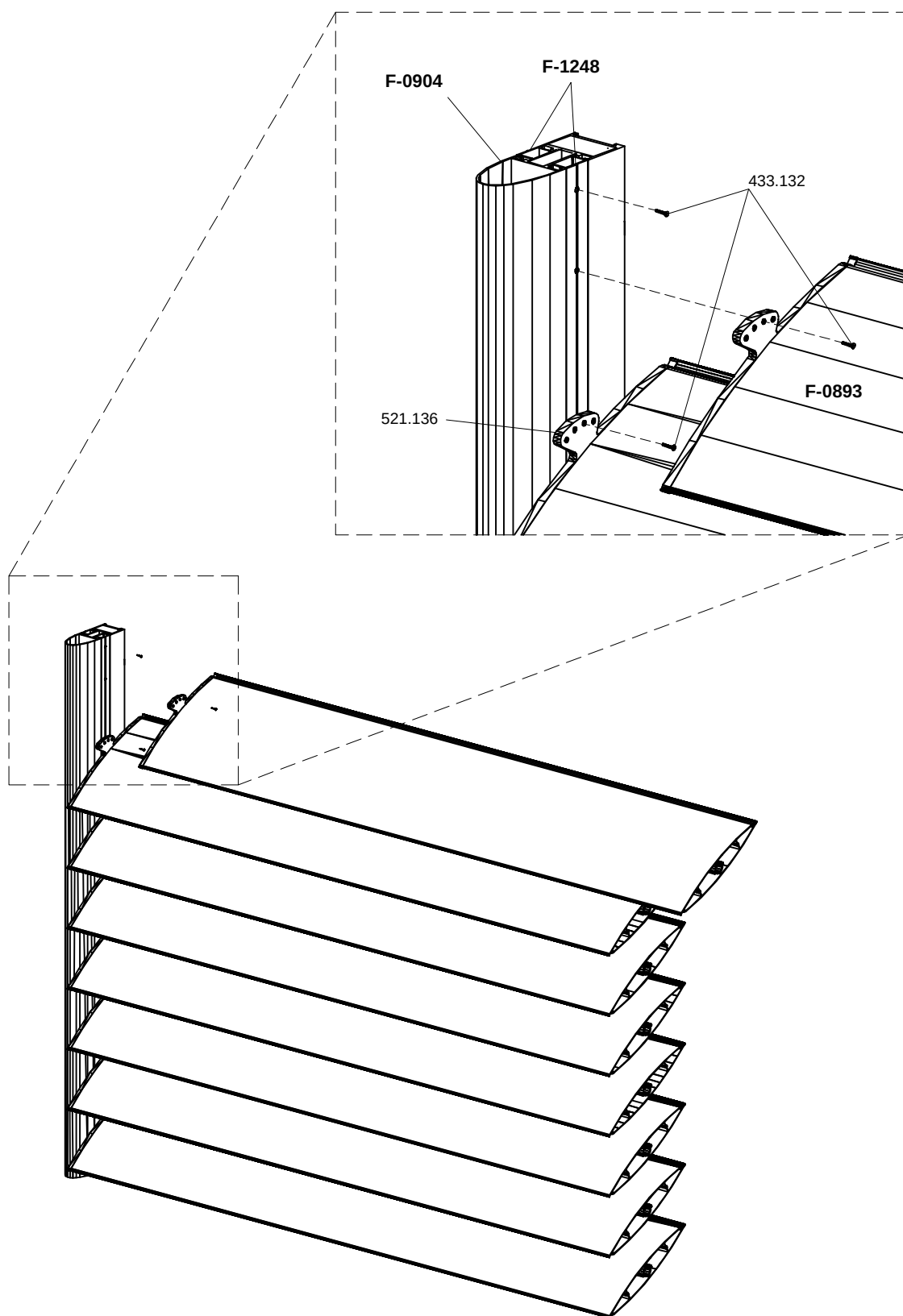
Montaža nosača 521.135 na
lamelu F-0769 (220mm)



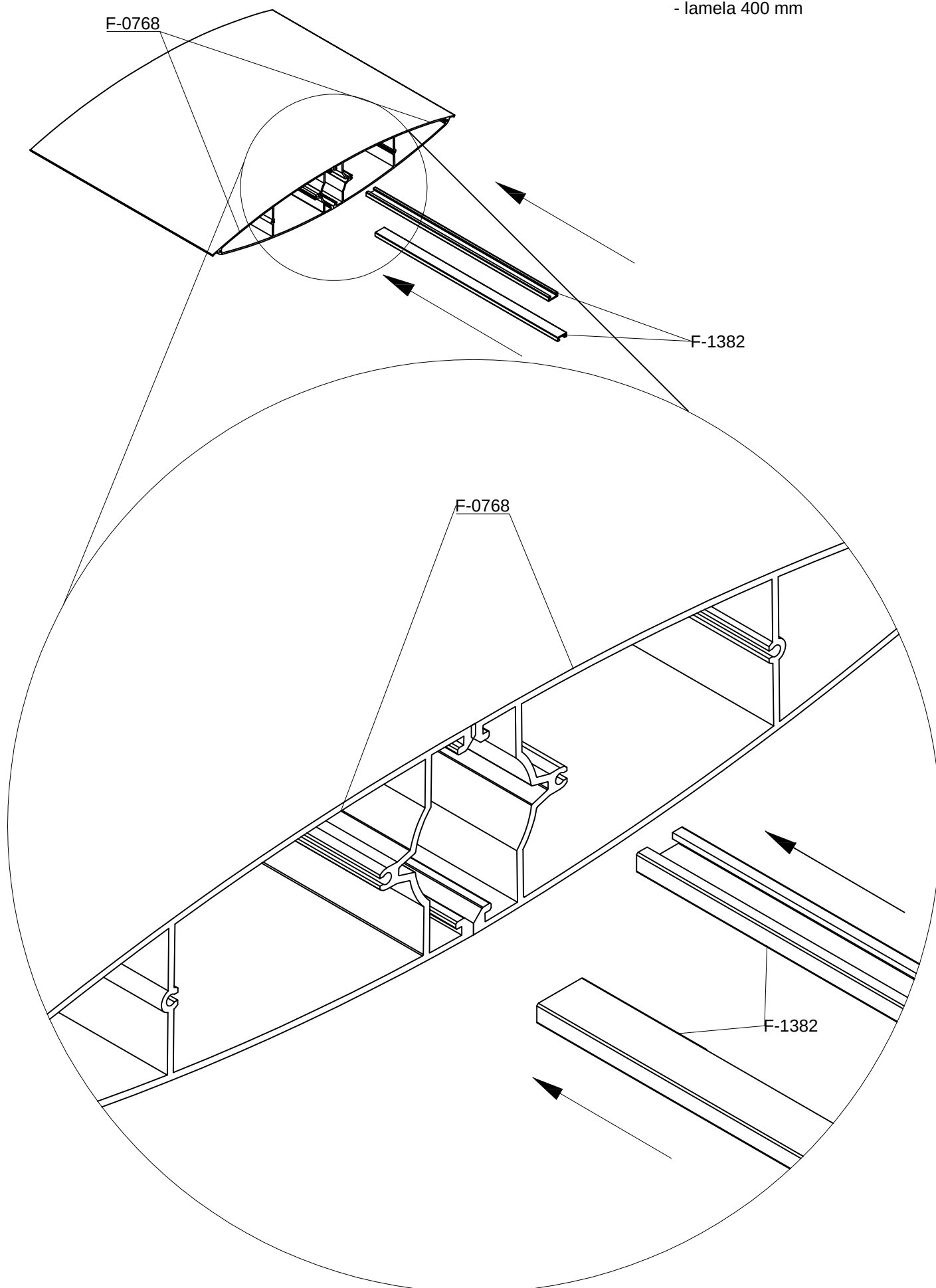
Montaža nosača 521.136 na
lamelu F-0893(290mm)



Montaža nosača 521.136 na
lamelu F-0893 (290mm)

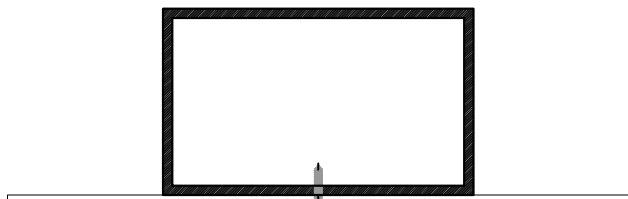


- lamela 400 mm

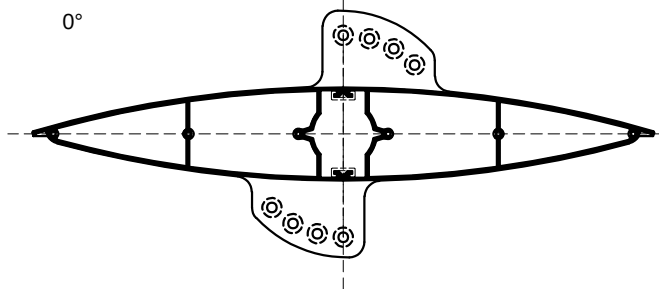


Montaža nosača 521.137 na lamelu
F-0893 (400mm)

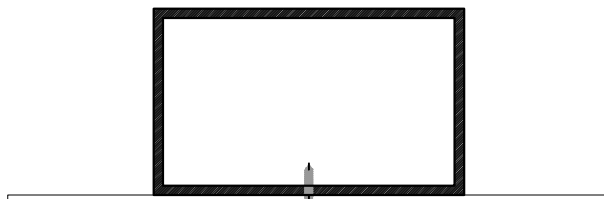
Čelična cijev
(200x120x6)



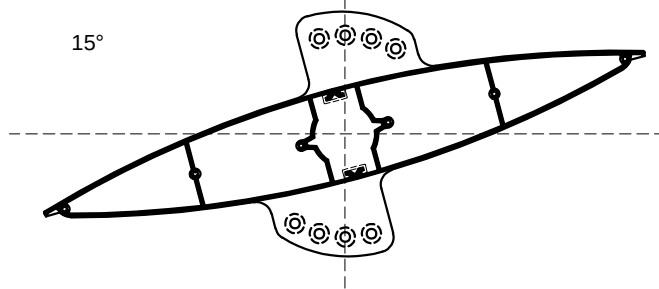
0°



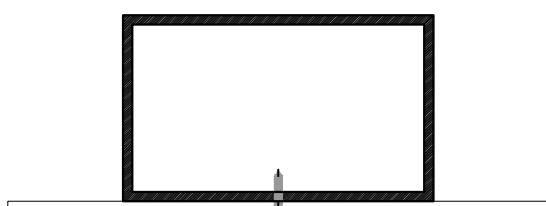
Čelična cijev
(200x120x6)



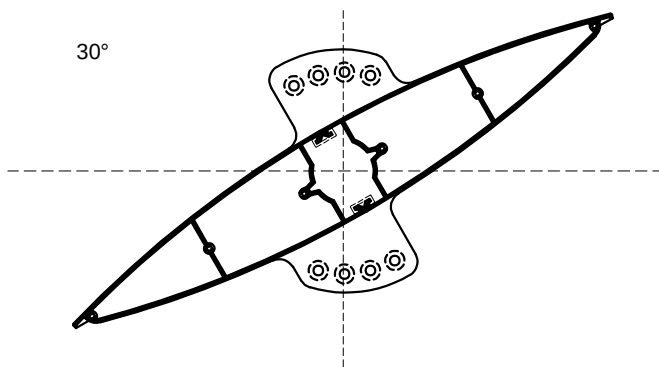
15°



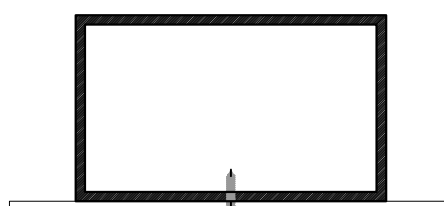
Čelična cijev
(200x120x6)



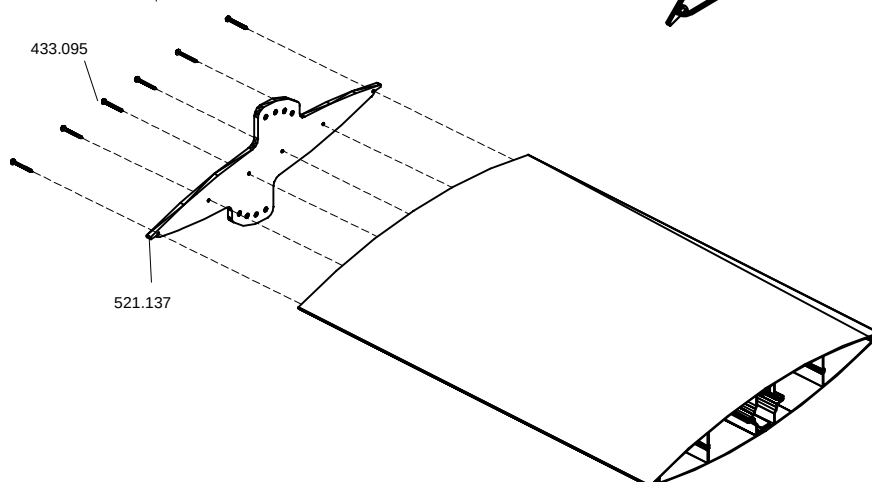
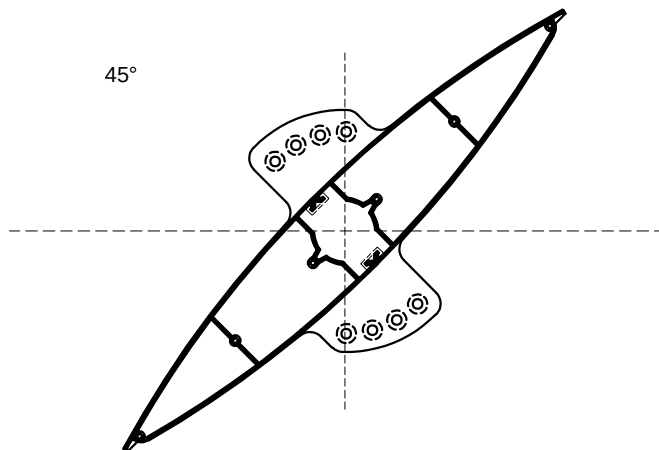
30°



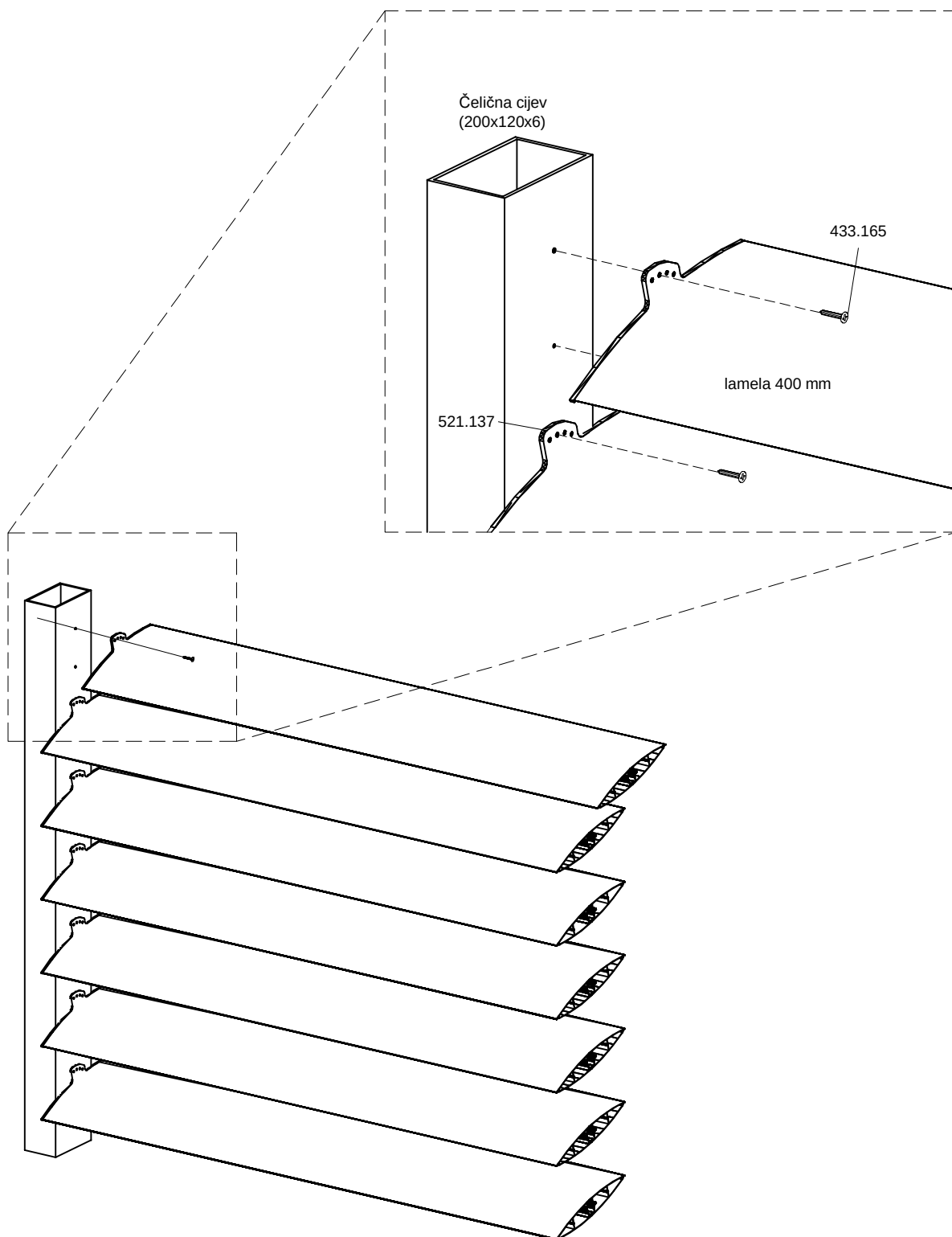
Čelična cijev
(200x120x6)



45°

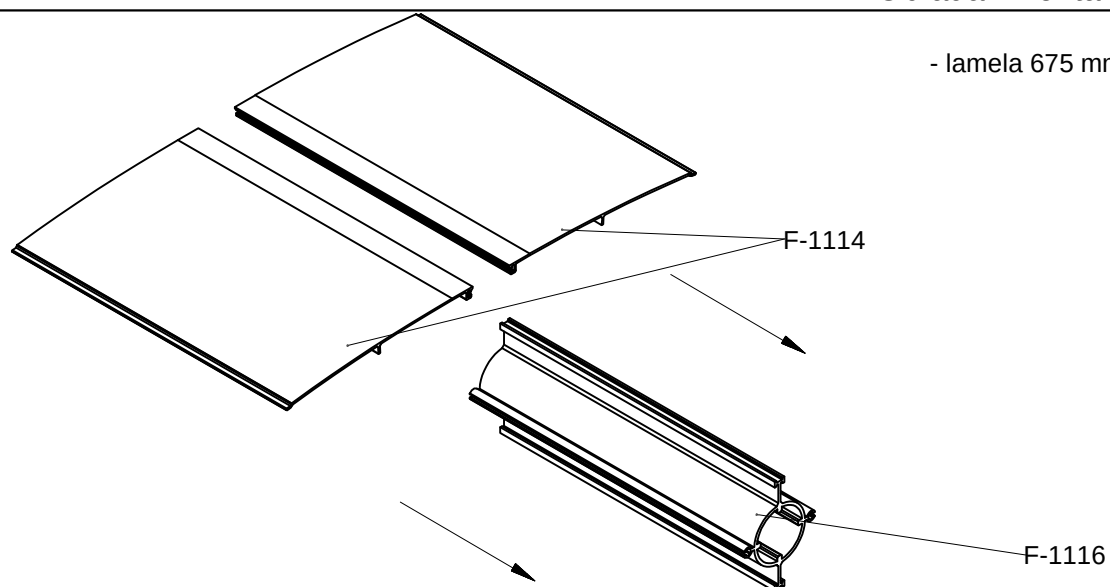


Montaža nosača 521.137 na
lamelu F-0768 (400mm)

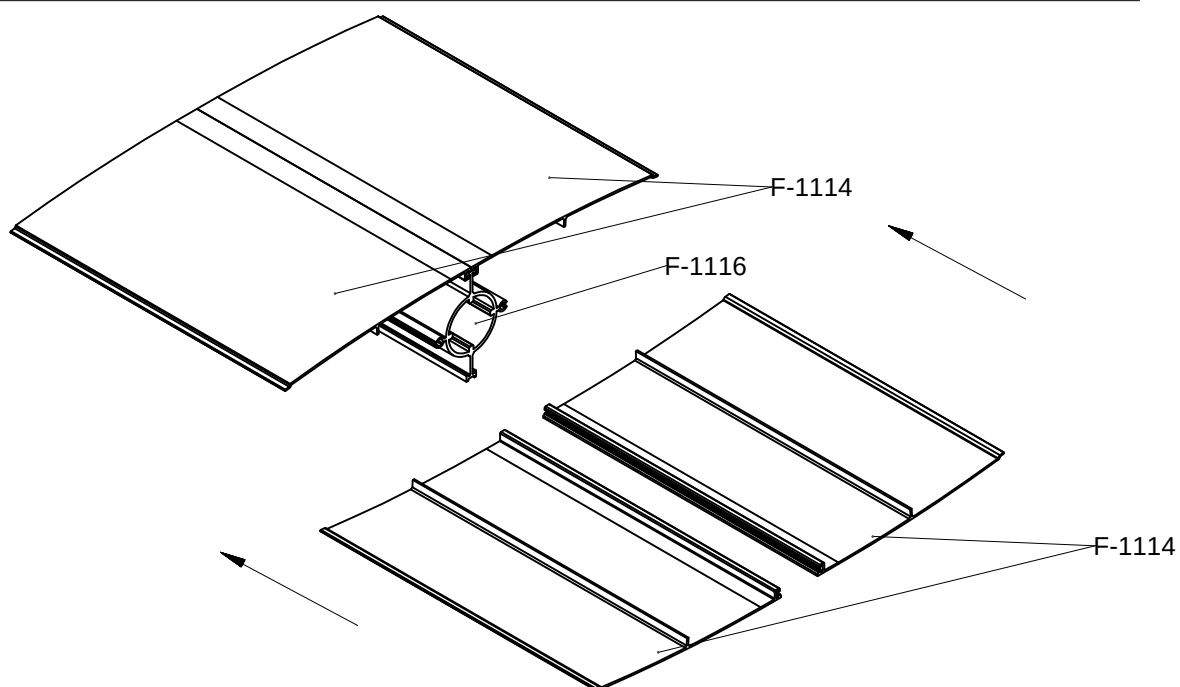


- lamela 675 mm

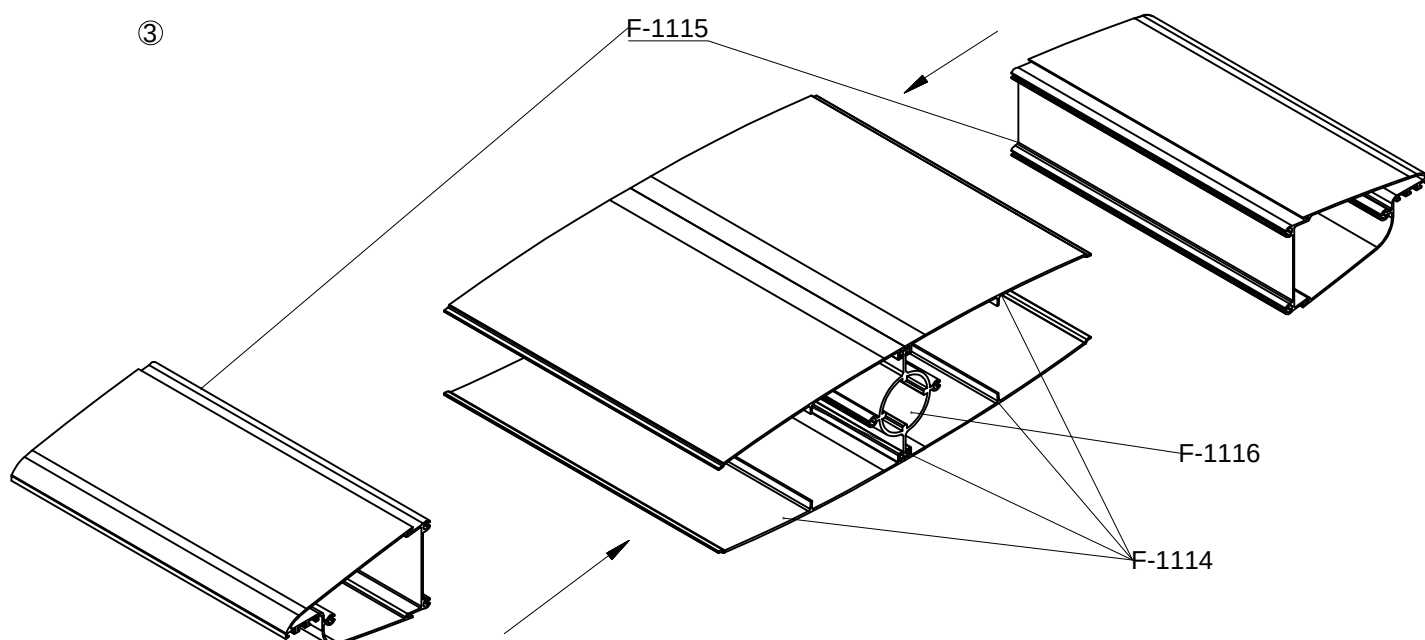
①



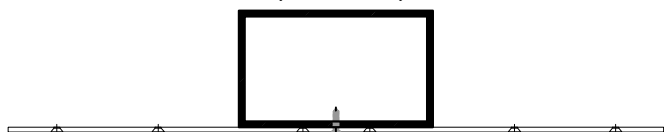
②



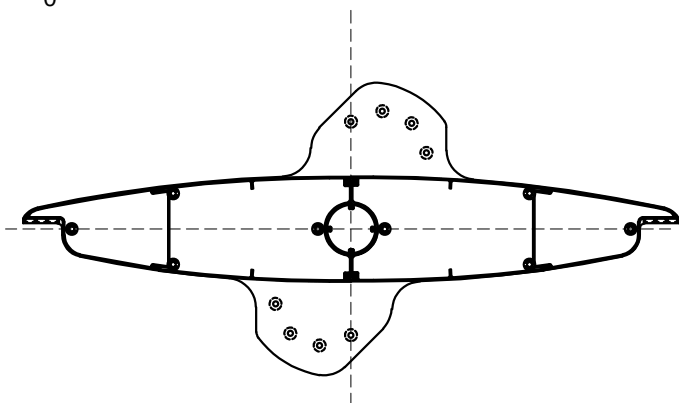
③



Čelična cijev
(200x120x6)



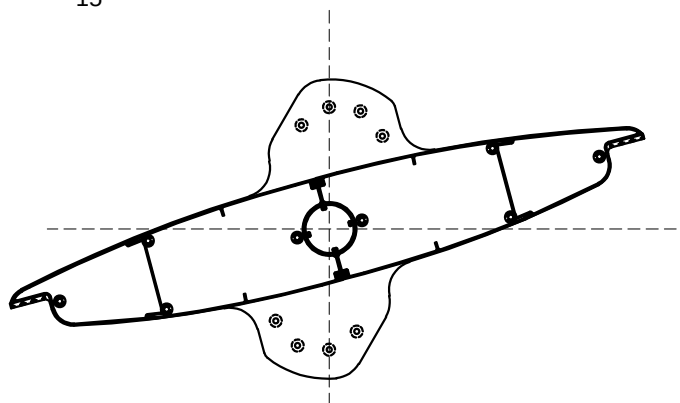
0°



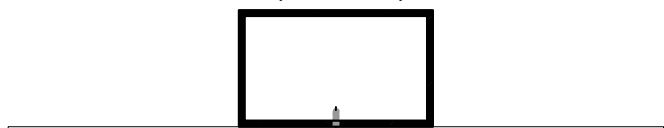
Čelična cijev
(200x120x6)



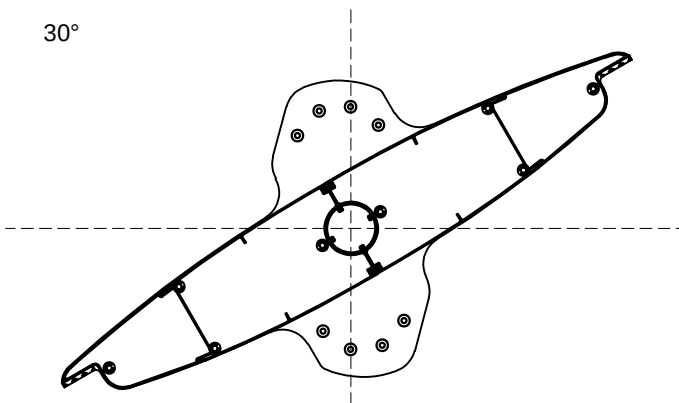
15°



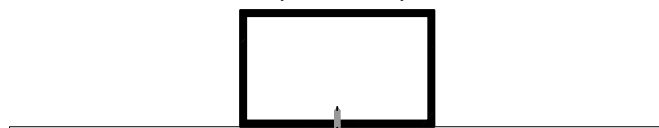
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(200x120x6)



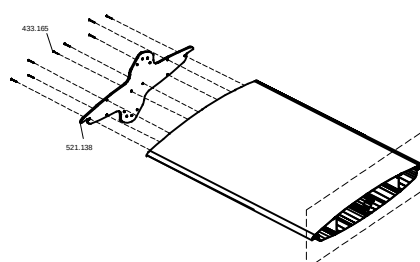
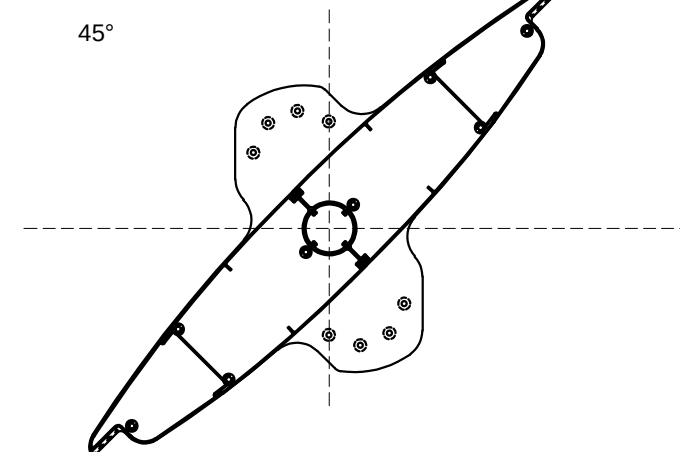
30°



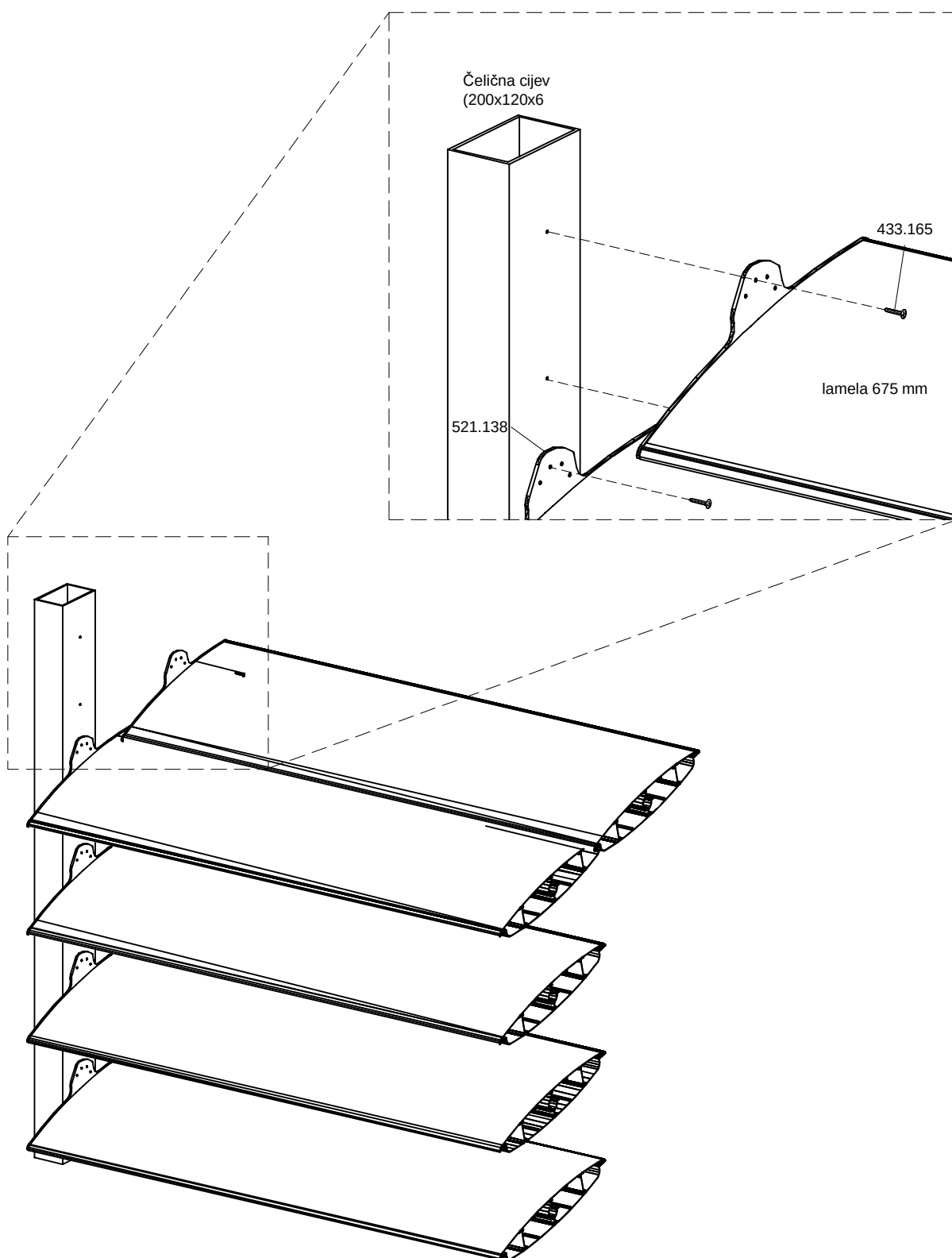
Čelična cijev
(200x120x6)



45°



- lamela 675 mm



431.329

521.120

F-0770

434.003

imbus vijak
M4x5(431.313)

391.063

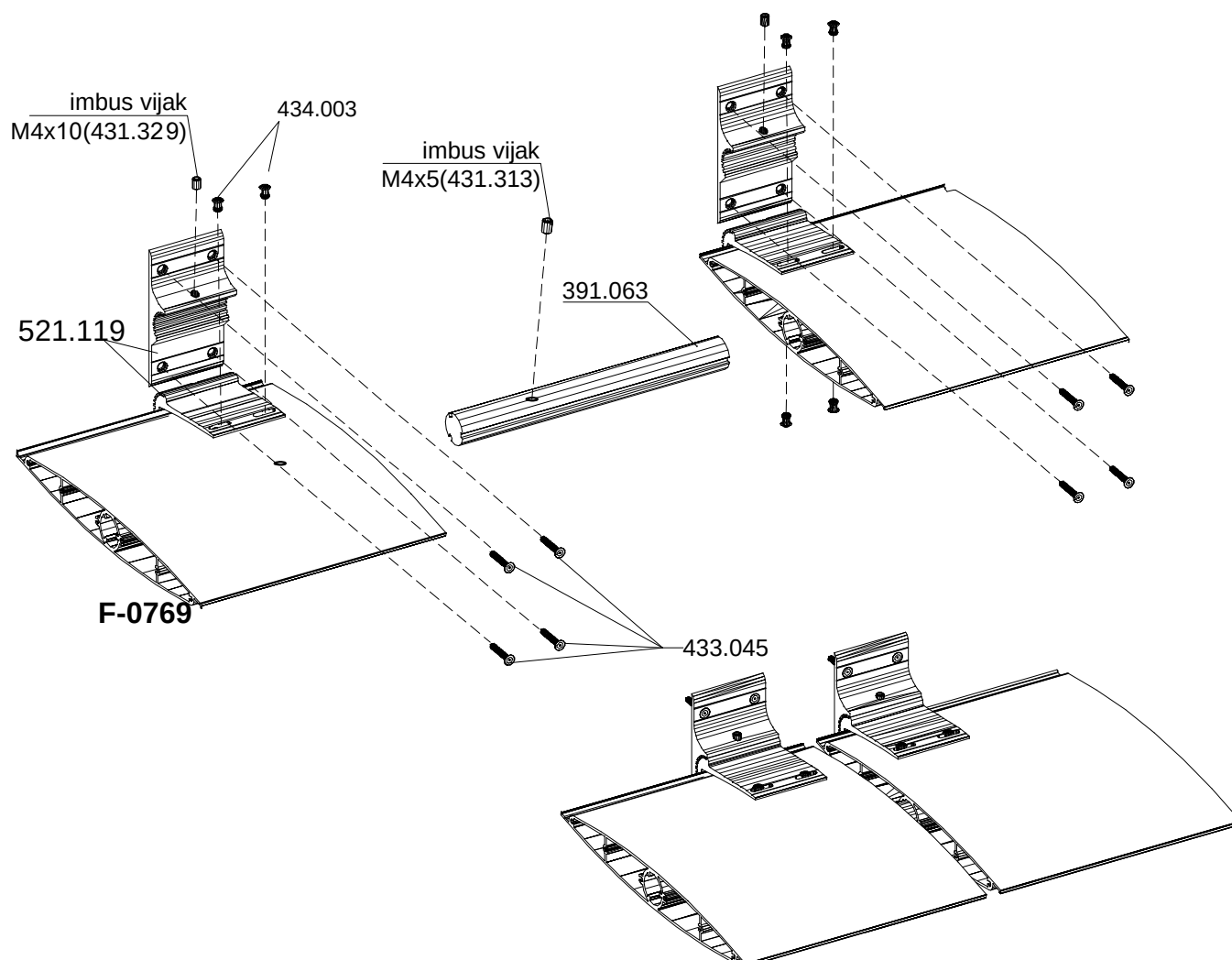
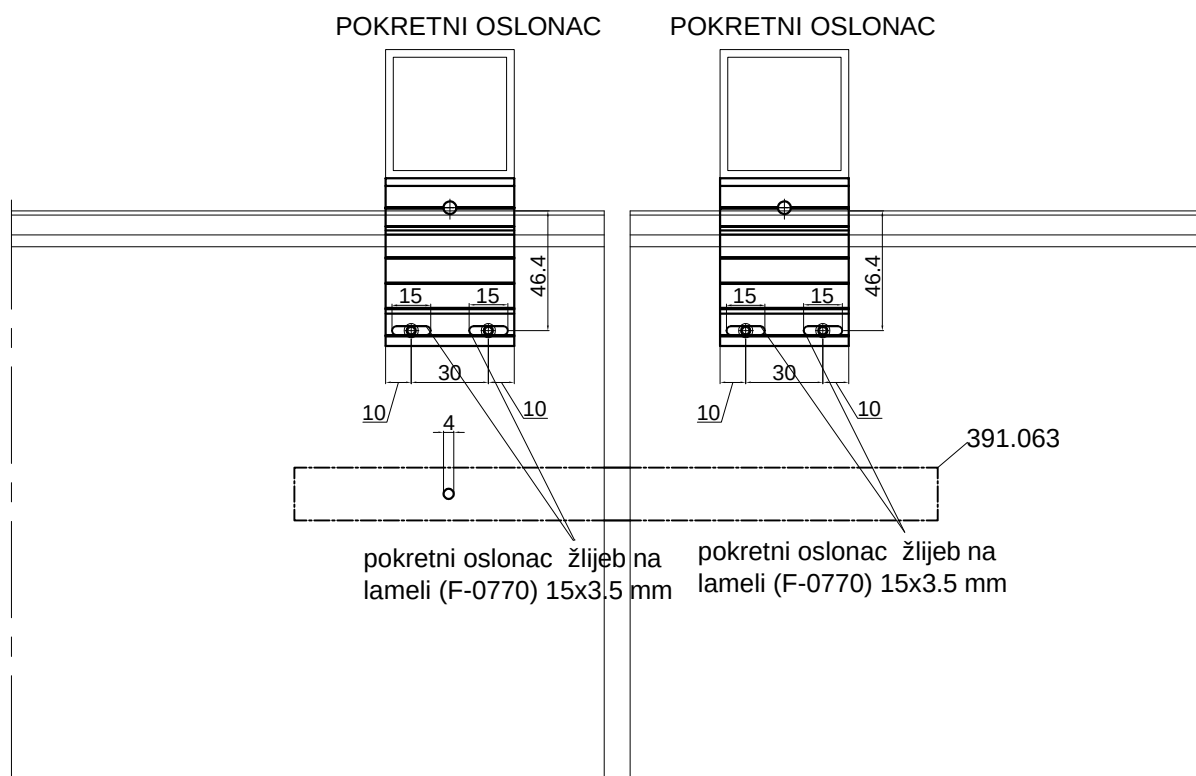
433.045

Diagram illustrating the assembly of a boat's transom (F-0770) using various components and fasteners. The components shown include:

- 431.329: A small fastener or pin.
- 521.120: A bracket or support plate.
- F-0770: The main transom plate.
- 434.003: A small fastener or pin.
- imbus vijak M4x5(431.313): An Allen screw.
- 391.063: A long, cylindrical component, likely a propeller shaft or support tube.
- 433.045: A small fastener or pin.

The diagram shows the assembly sequence with dashed lines indicating the placement of each part relative to the transom.

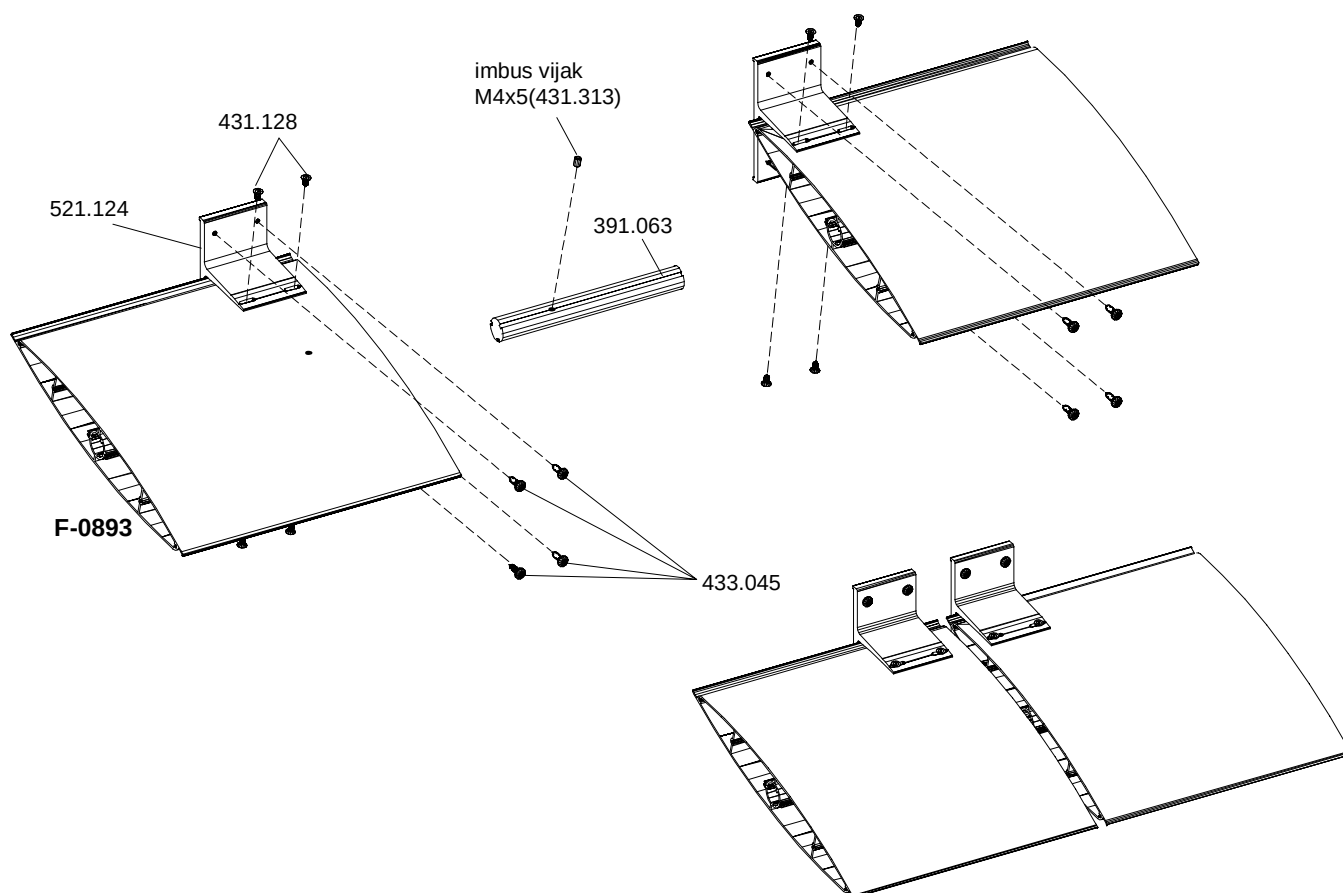
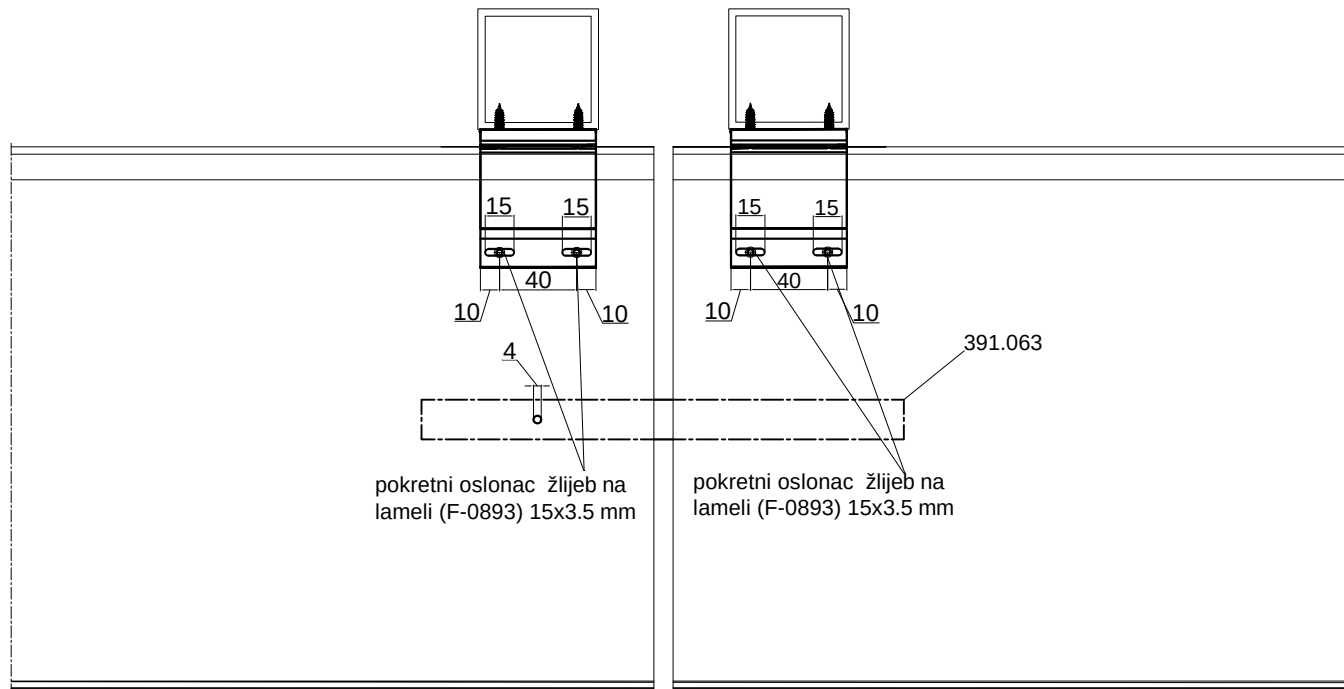
- lamela 220 mm (F-0769)



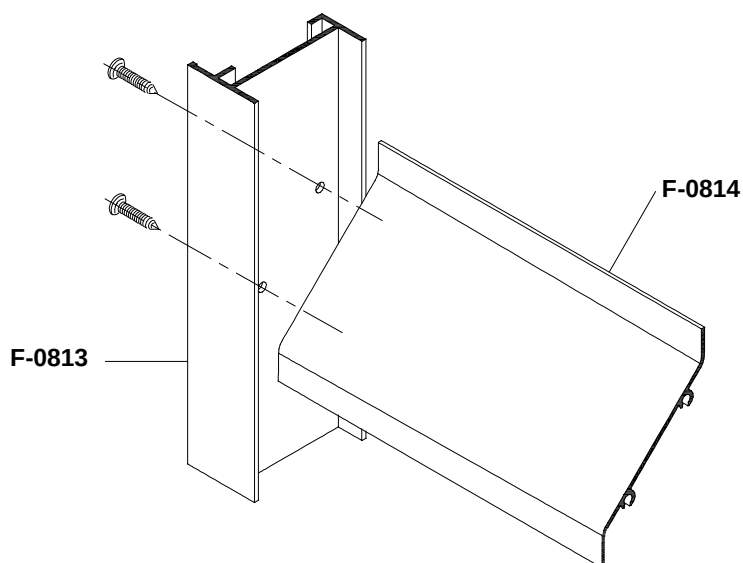
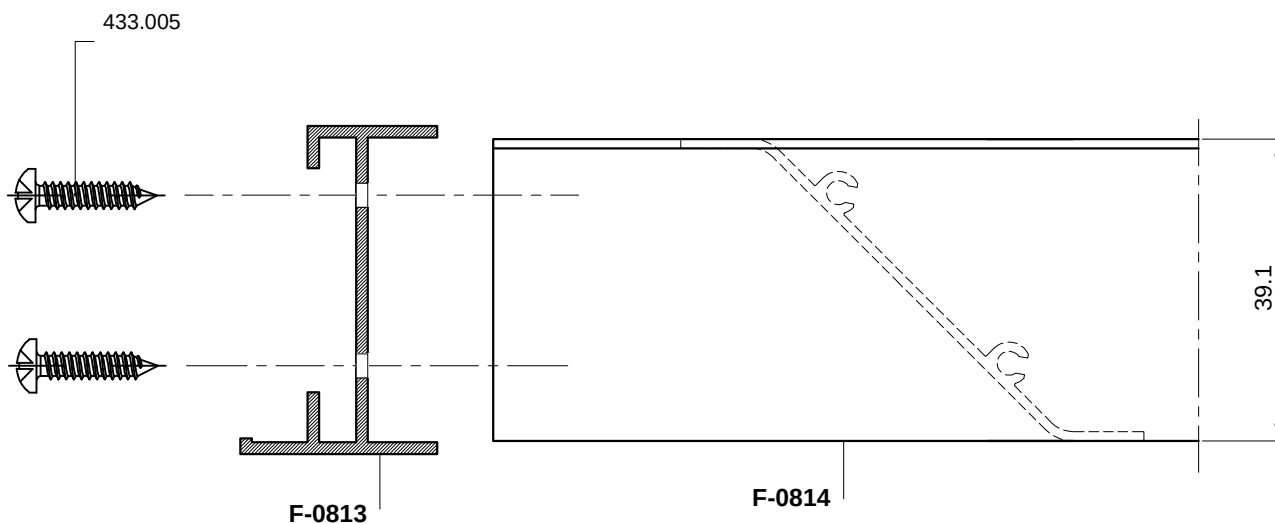
-lamela 290 mm (F-0893)

POKRETNi OSLOMAC

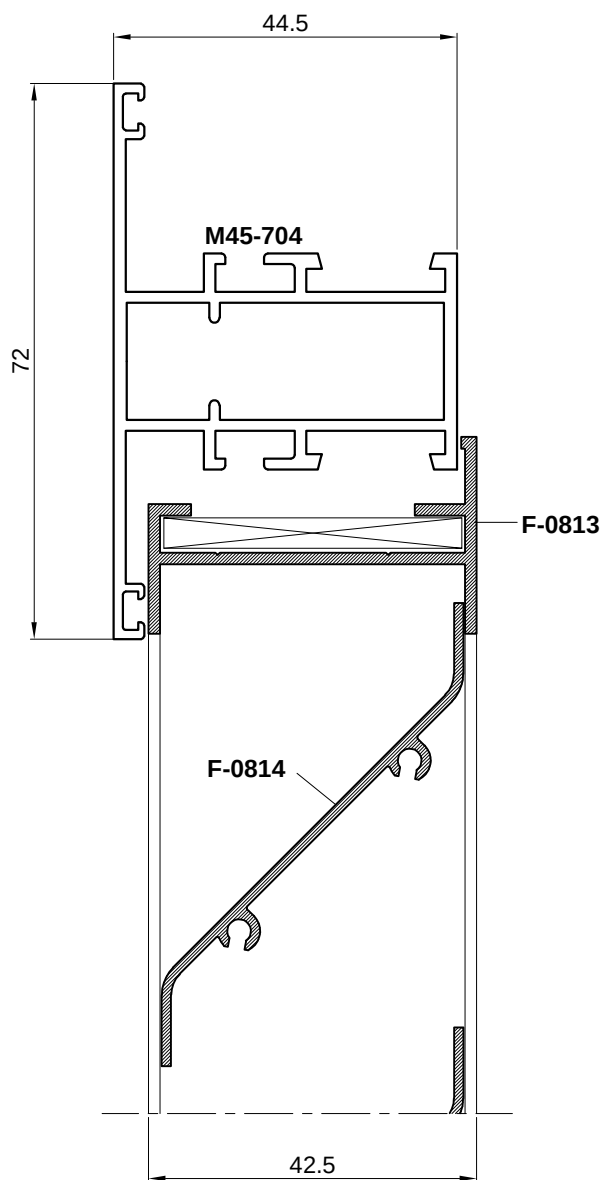
POKRETNi OSLOMAC



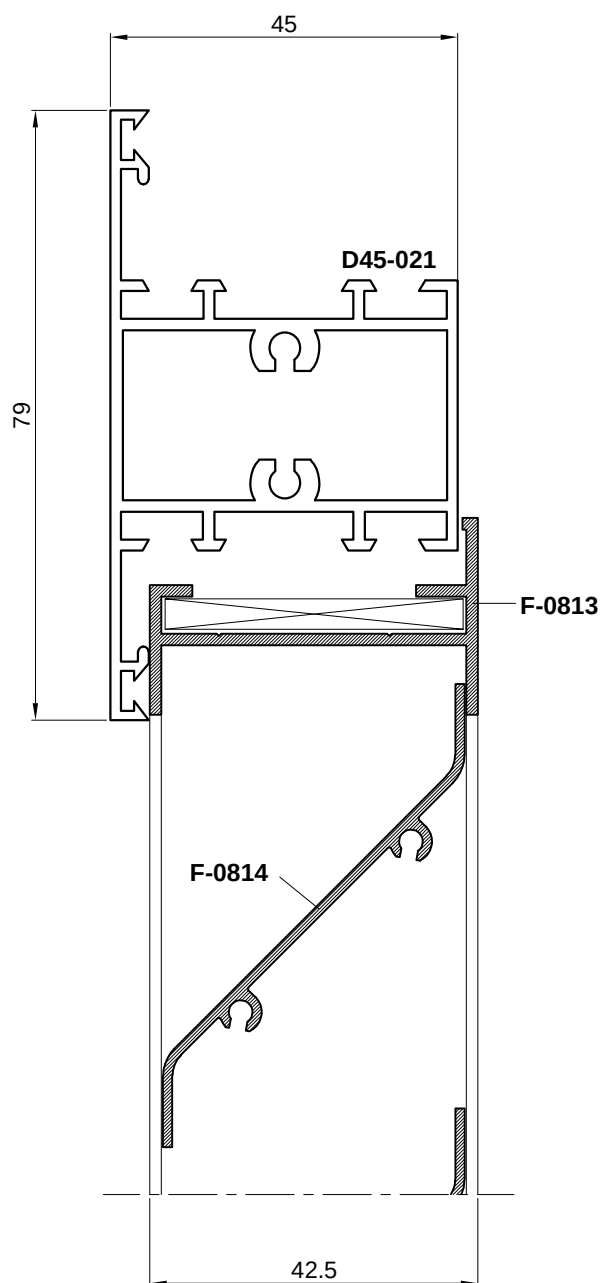
UGRADNJA LAMELA F-0814 U OKVIR OD F-0813



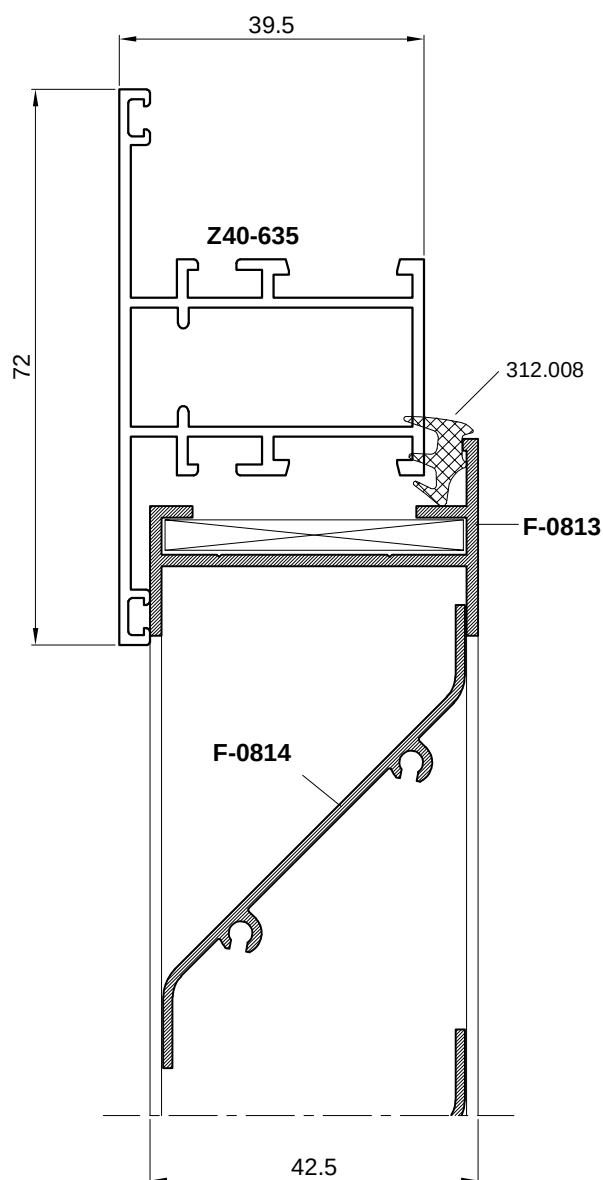
UGRADNJA ŽALUZINA U
OKVIR SERIJE 45 MILL



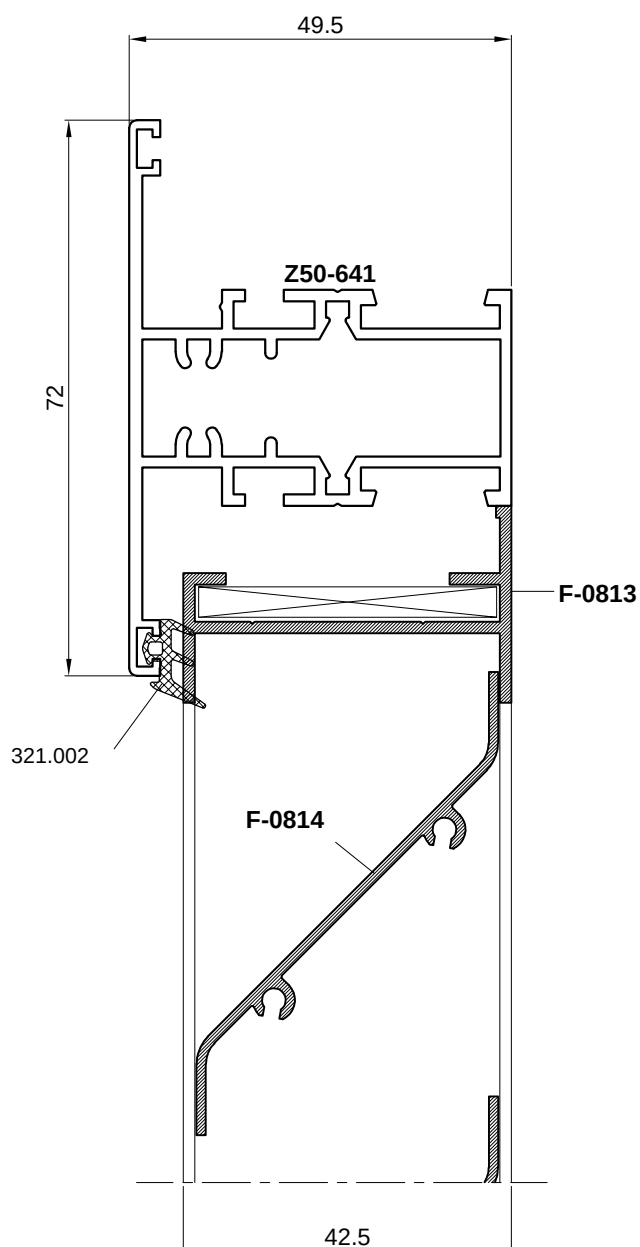
UGRADNJA ŽALUZINA U
OKVIR SERIJE 45 DALMO

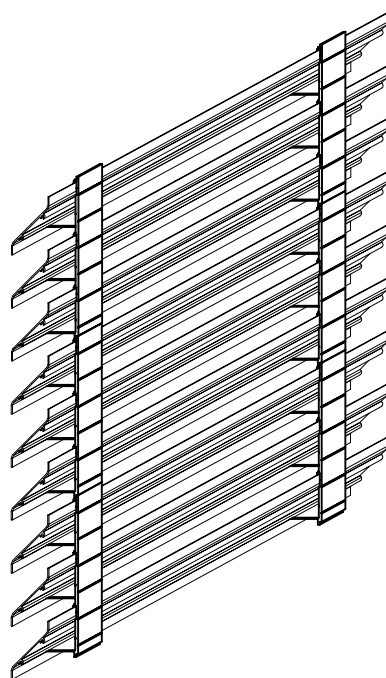
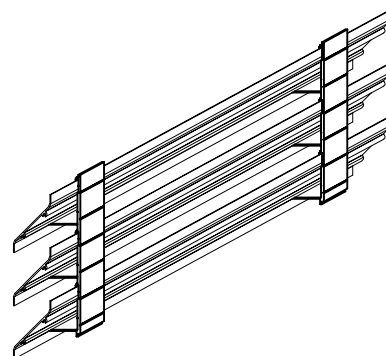
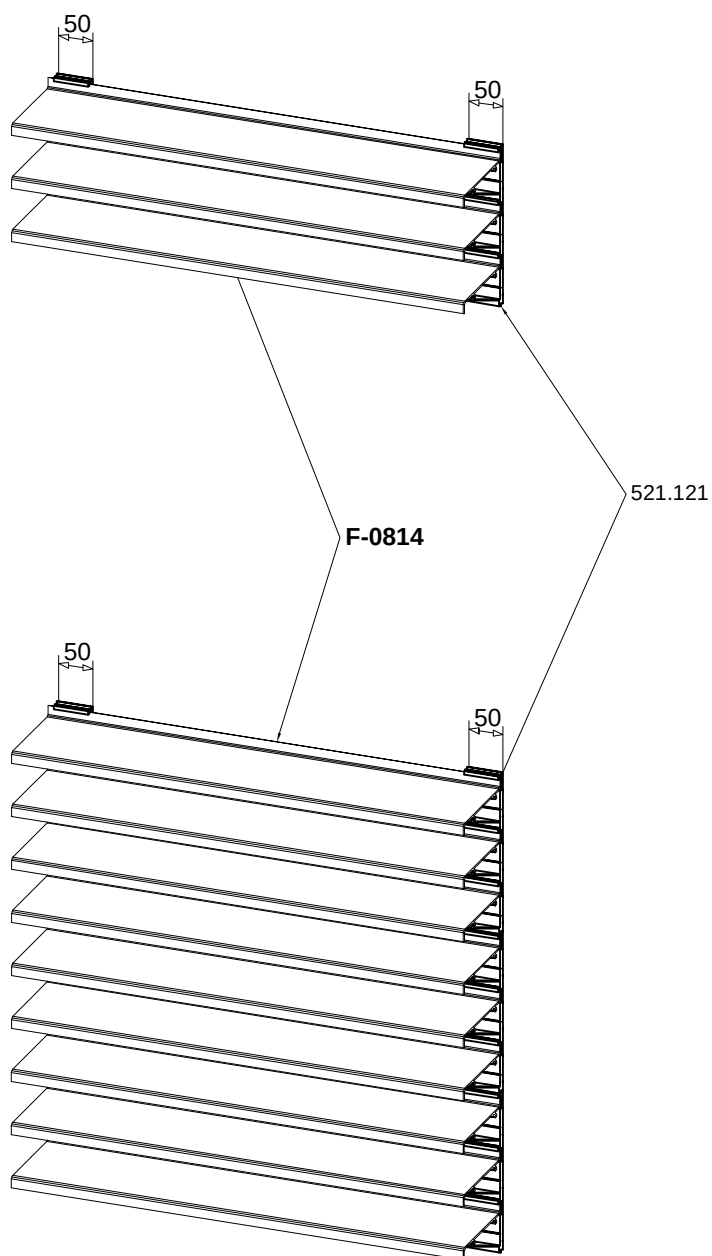


UGRADNJA ŽALUZINA U
OKVIR SERIJE Z40

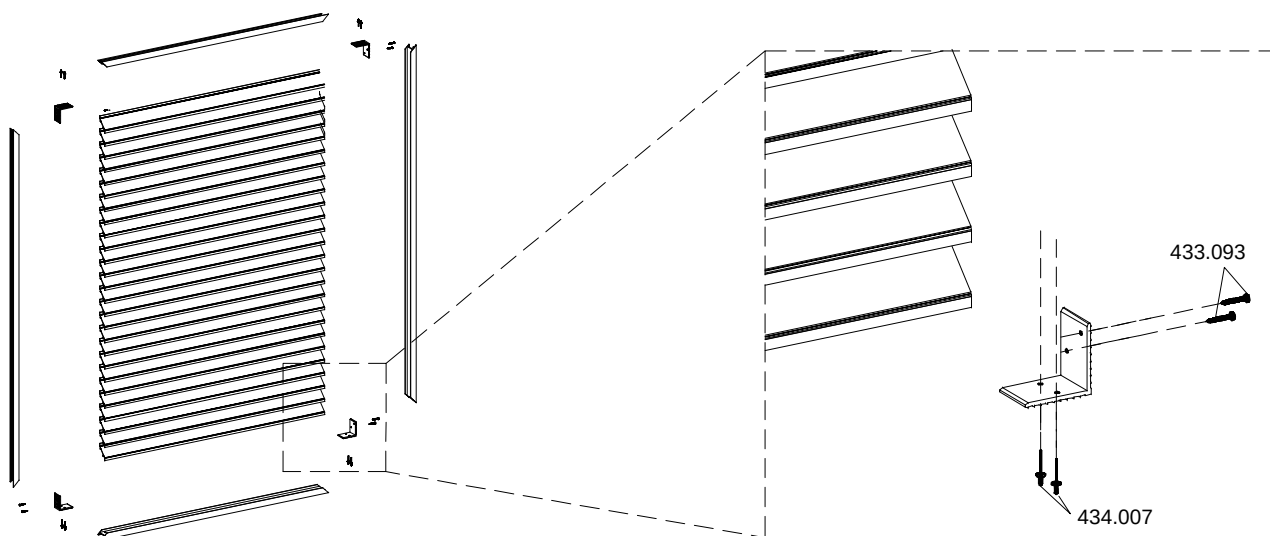
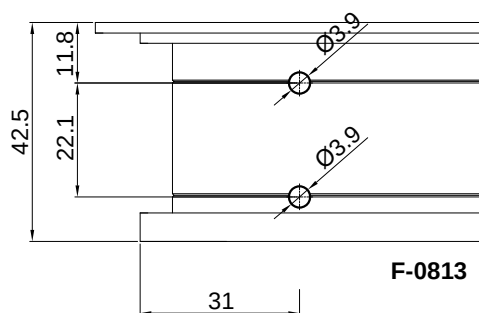
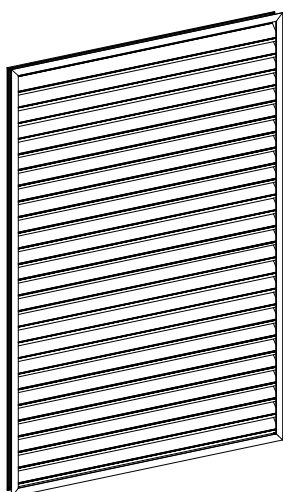
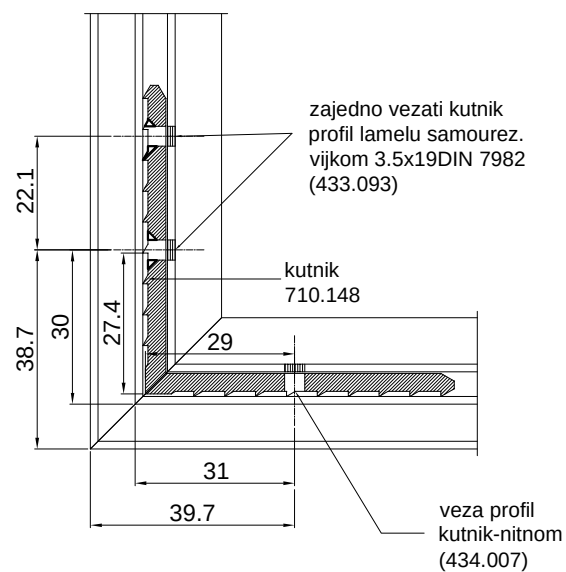
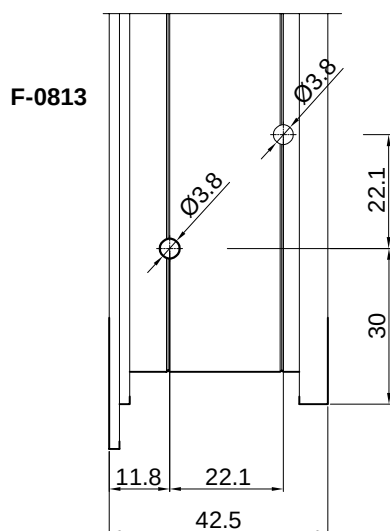


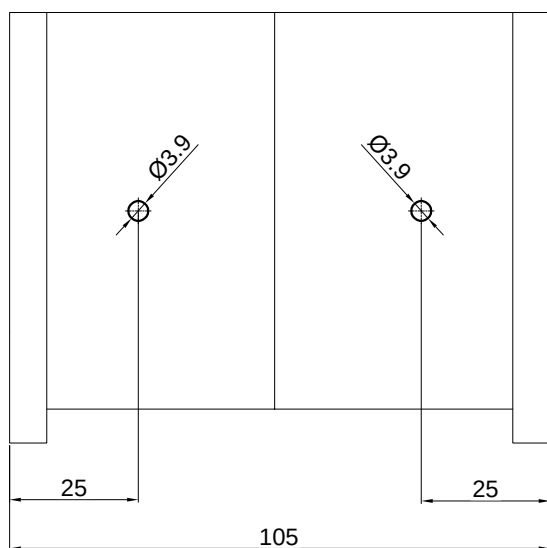
UGRADNJA ŽALUZINA U
OKVIR SERIJE Z50



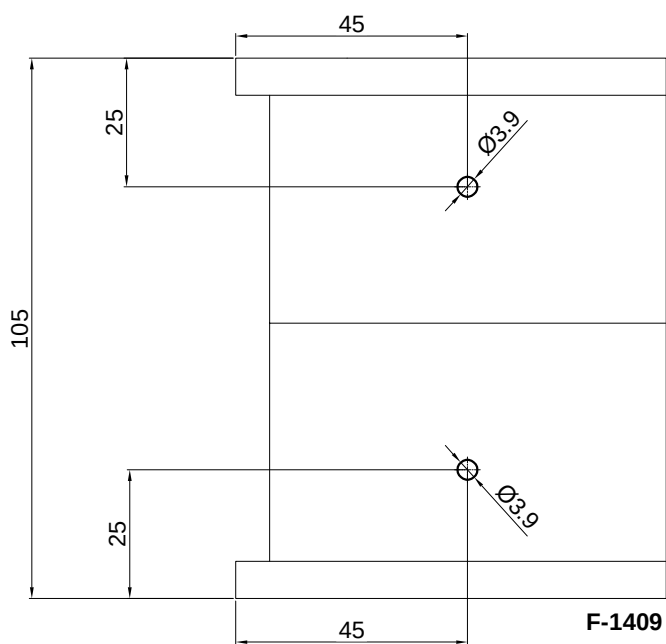
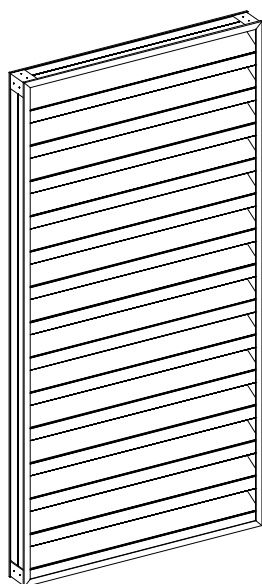
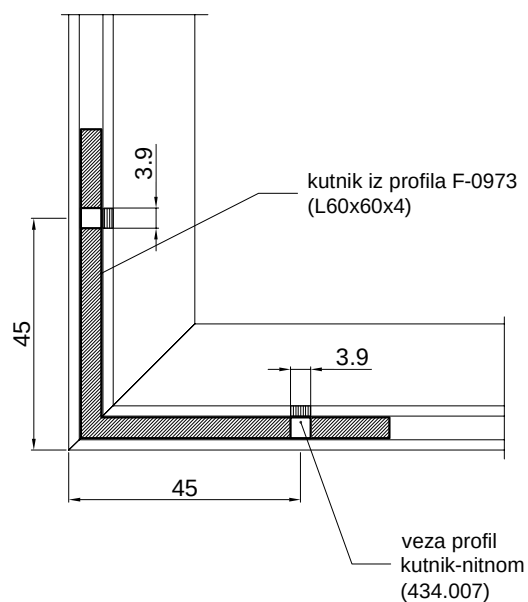


Obrada profila F-0813 za kutnik K-060971/25

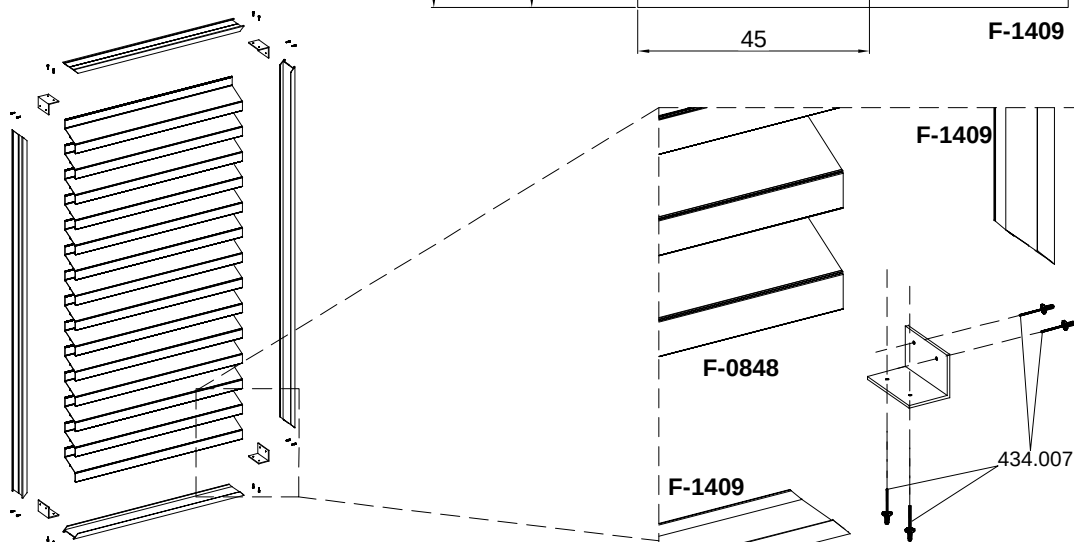




F-1409

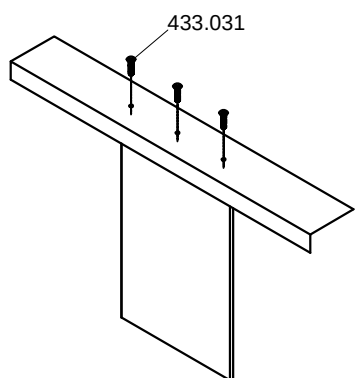


F-1409

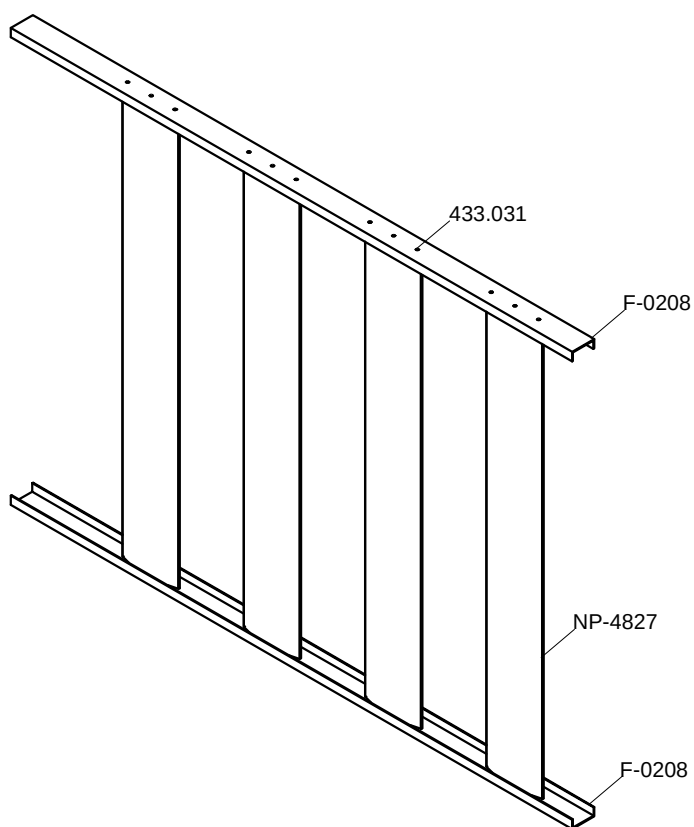
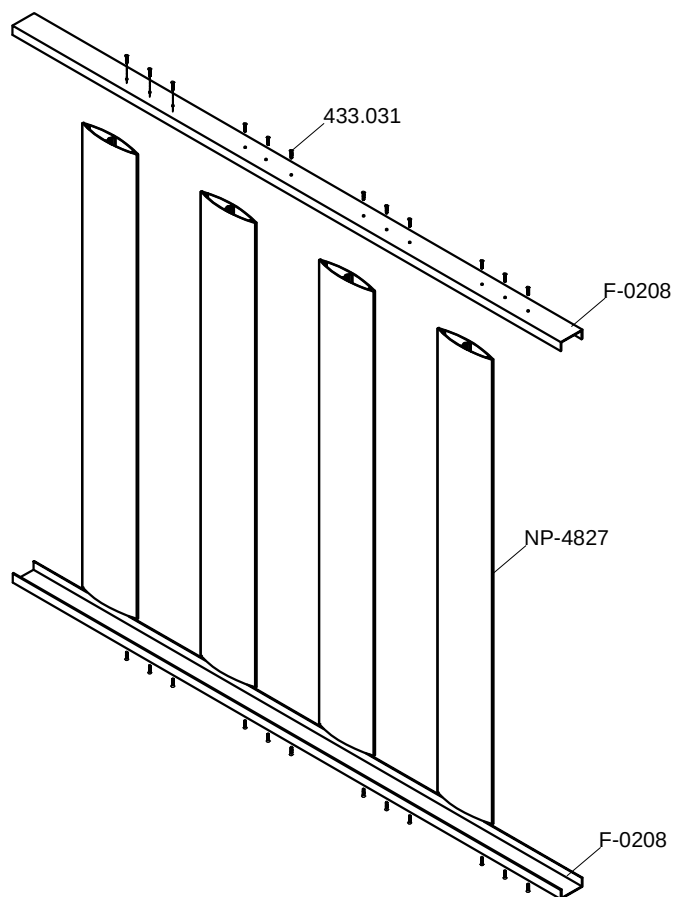


Montaža

- lamela 140 mm



Lamela NP-4827 spaja se samourezujućim vijkom 433.031 za profil nosača F-0208



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Prosinac 2021. / *December 2021*

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