

# FEAL



## FB 50

FRANCUSKI BALKON  
*FRENCH BALCONY*



01	ZNAČAJKE SISTEMA	710.01.000-005
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# Značajke sistema

## System characteristics



### Francuski balkon

Francuski balkon je dopunsko rješenje za FEAL serije prozora, balkonskih vrata, kliznih vrata u situacijama kada ugradnja klasičnih balkona nije izvediva, bilo da se radi o otvorima u betonskoj konstrukciji ili ovješnim fasadama.

Uzimajući u obzir da je sigurnost najvažnija zadaća ovog sistema, sistem je testiran s Pendel udarom gdje je dostigao najvišu kategoriju C5 koja omogućava ugradnju Francuskog balkona u sve kategorije prostorija prema EN 1991-1-1.

Montaža ovog sistema je brza, jednostavna i troškovno efektivna.

Vertikalni profili na koje se oslanja staklo su prethodno obrađeni u radionici te samo moraju biti pričvršćeni vijcima na ram prozora ili vrata.

Vertikalni profili francuskog balkona su dizajnirani tako da im je širina manja od širine profila rama zbog čega sistem karakterizira potpuna transparentnost, neprekidan pogled i maksimalna osvjetljenost unutar prostorije.

Nema potrebe za horizontalnim profilima, ali po želji je moguća ugradnja rukohvata.

### French balcony

French balcony is a complementary solution for FEAL windows, balcony doors, sliding doors in situations where no balconies are available whether it be in building openings or within curtain walls.

Since the safety is the most important task of this system, the system has been tested with Pendel impact test where it achieved the highest category C5 which enables the French balcony to be installed in all room categories according to the EN 1991-1-1.

The installation of the system is fast, easy and cost-effective. The vertical profiles on which the glass is mounted are preprocessed in the workshop and only need to be screwed on the window or door frame.

Because the support vertical profiles are narrower than the frame profiles this system is characterized by full transparency, uninterrupted view and maximal light inside the room.

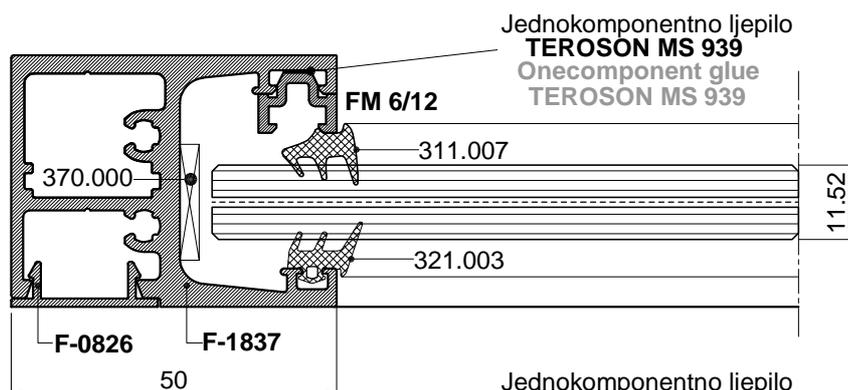
There is no need for horizontal profiles and handrail profiles are optional.

Tehničke karakteristike		
Debljina stakla	88.4	1010.4
Tip stakla	Lamistal polukaljeno + kaljeno	
Način montaže	S vanjske strane prozora, vrata i kliznih vrata	
Površinska obrada profila	Sve RAL boje i nijanse eloksaže	
Dopuštene dimenzije stakla	Visina stakla: 700 mm-1200 mm Širina stakla: Staklo 88.4: 700 mm - 1700 mm Staklo 1010.4: 700 mm - 2400 mm	
Ispitivanje pendel udarom	Kategorija C5	

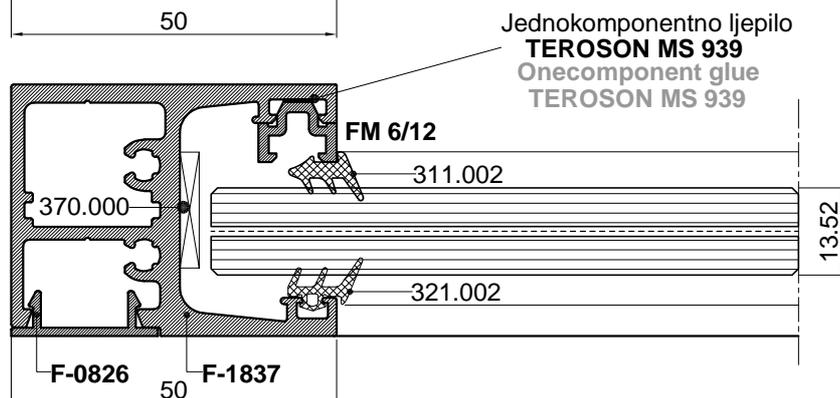
Technical characteristics		
Glass thickness	88.4	1010.4
Glass type	Laminated semi-toughened + toughened	
Installation type	From exterior side on windows, doors and sliding doors	
Profile surface treatment	All RAL colours and anodizing colours	
Allowed glass dimensions	Glass height : 700 mm-1200 mm Glass width: Glass 88.4: 700 mm - 1700 mm Glass 1010.4: 700 mm - 2400 mm	
Pendel impact test	Category C5	

Staklo	Vanjska brtva	Unutarnja brtva	Dodatak	Profil
55.4	321.003	311.007	FM 6/12	F-1837
66.4	321.002	311.002	FM 6/12	F-1837
88.4	321.003	311.007	-	F-1837
1010.4	321.002	311.001	-	F-1837

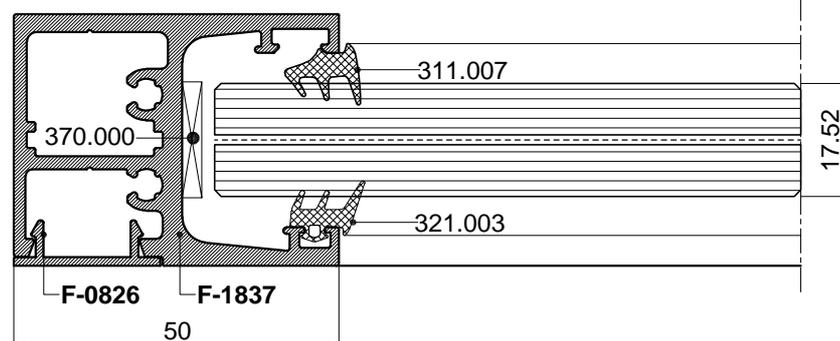
55.4



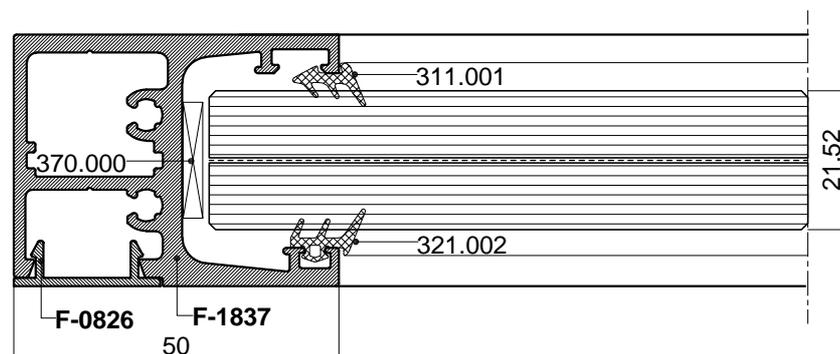
66.4



88.4

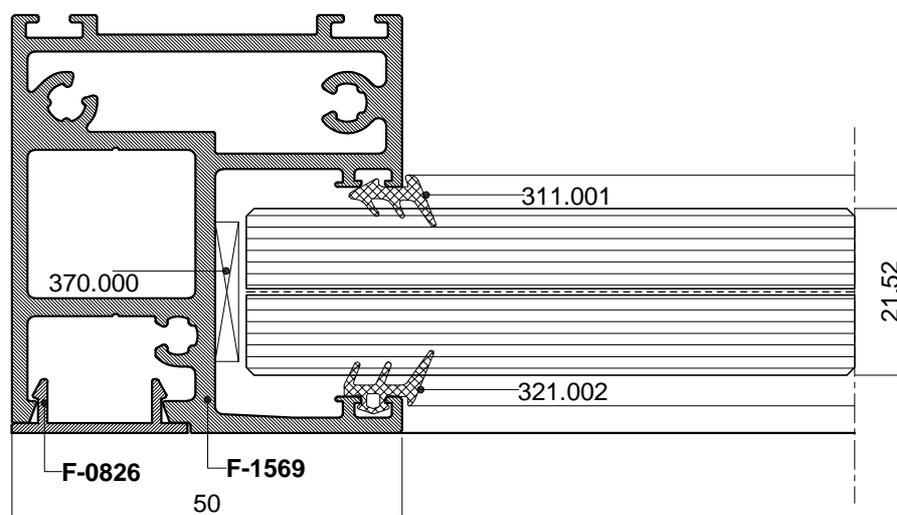


1010.4

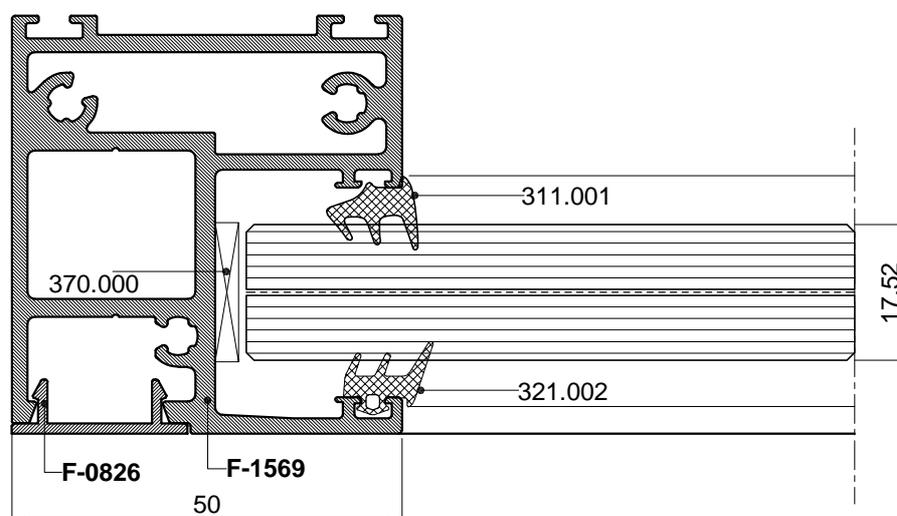


Staklo	Vanjska brtva	Unutarnja brtva	Dodatak	Profil
88.4	321.002	311.001	-	F-1569
1010.4	321.002	311.001	-	F-1569

1010.4



88.4





# Ispitivanja i certifikati

## Testing and certificates





Glasgeländer Glass railing / Pendelschlagversuch Pendulum impact test

31.03.2020 Auftrag/Order L20/0184\_01 Zeichen/Sign hi Seite/Page 1/9

## Prüfbericht / Test report

Pendelschlagversuch nach / Pendulum impact test according to ÖNORM B 3716-3



<b>Auftraggeber Client</b>	FEAL d.o.o	<b>Adresse Address</b>	Trnska cesta 146 BA 88220 Siroki Brijuni Bosnia Herzegovina
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<b>Bezeichnung Designation</b>	Glasgeländer Glass railing	<b>Identifikation Identification</b>	French balcony F-1569
<b>Grafik Graphic</b>		<b>Abmessungen Dimensions</b>	Breite / Width 700 - 2400 mm Höhe / Height 700 mm
		<b>Rahmenmaterial Frame material</b>	Aluminium
		<b>Füllelement Filling element</b>	VSG 88.4 VSG 1010.4
		<b>Glaslagerung Glass support</b>	Zweiseitig vertikal Two-sided vertical

Rahmenabmessungen Frame dimensions	Glasabmessungen Glass dimensions	Fallhöhe Drop height
<b>Glass / Glass VSG88.4</b>		
Breite / Width 660 - 1660 mm Höhe / Height ≥ 700 mm	Breite / Width 700 - 1700 mm Höhe / Height ≥ 700 mm	900 mm
<b>Glass / Glass VSG1010.4</b>		
Breite / Width 660 - 2360 mm Höhe / Height ≥ 700 mm	Breite / Width 700 - 2400 mm Höhe / Height ≥ 700 mm	900 mm

<b>Einstufung Prüfelement lt. Angabe Hersteller Grading test element acc. to manufacturer</b>	Das Profilsystem in Verbindung mit den Glasaufbauten erfüllt die Kriterien der ÖNORM B 3716-3 für eine maximale Pendelfallhöhe von 900 mm.  The profile system in combination with the glass structures meets the criteria of ÖNORM B 3716-3 for a maximum pendulum drop height of 900 mm.
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gbu Lab GmbH, Steinebach 13a  
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www.gbu.group

Dieses Deckblatt kann als Kurzfassung verwendet werden. Für diesen Prüfbericht ist der Inhalt des deutschen Textes maßgeblich.  
This cover sheet can be used as an abridged version. Only the German version of the test report shall be decisive.

gbu Lab GmbH, Prüflabor und Inspektionsstelle / Testing Laboratory and Inspection Body  
Steinebach 13a, 6850 Dornbirn, Austria Rümerstraße 5, 5322 Hof bei Salzburg, Austria T+43 5572 235 66  
office.lab@gbu.group www.gbu.group FN 295310f LG Feldkirch



L24/1744\_01  
11.07.2024  
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**Prüfbericht / Test report**

**Glasgeländer / Glass balustrade**

Pendelschlagversuch / Pendulum impact test

ÖNORM B 3716-3

**Auftraggeber** FEAL d.o.o  
**Client** Trnska cesta 146, 88220 Siroki Brijeg, Bosnien Herzegovina

**Identifikation** F-1837\_1700  
**Identification**

**Bezeichnung** French Balcony  
**Designation** Glass balustrade without edge protection

**Abmessungen** Breite / Width 1700 mm  
**Dimensions** Höhe / Height 700 mm

**Rahmenmaterial** Aluminium / Aluminium  
**Frame material**

**Füllelement** VSG / ESG 88.4 1,52 PV3, KPO - poliert  
**Filling element**

**Glaslagerung** Zweiseitig vertikal  
**Glass support** Two-sided vertical

**Einstufung Prüfelement lt. Angabe Hersteller / Grading test element acc. to manufacturer**

Rahmenabmessungen Frame dimensions		Glasabmessungen Glass dimensions		Fallhöhe Drop height
Breite / Width	— mm	Breite / Width	1700 mm	900 mm
Höhe / Height	— mm	Höhe / Height	700 mm	

Das Profilstystem in Verbindung mit den Glasaufbauten erfüllt die Kriterien der ÖNORM B 3716-3 für eine maximale Fallhöhe von 900 mm.

The profile system in combination with the glass structures meets the criteria of ÖNORM B 3716-3 for a maximum pendulum drop height of 900 mm.



L24/1744\_02  
11.07.2024  
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## Prüfbericht / Test report

### Glasgeländer / Glass balustrade

Pendelschlagversuch / Pendulum impact test

ÖNORM B 3716-3

**Auftraggeber** FEAL d.o.o  
**Client** Trnska cesta 146, 88220 Siroki Brijeg, Bosnien Herzegovina

**Identifikation** F-1837\_2400  
**Identification**

**Bezeichnung** French balcony  
**Designation** Glass balustrade without edge protection

**Abmessungen** Breite / Width 2400 mm  
**Dimensions** Höhe / Height 700 mm

**Rahmenmaterial** Aluminium / Aluminium  
**Frame material**

**Füllelement** VSG / ESG 1010.4 1,52 PV3, KPO - poliert  
**Filling element**

**Glaslagerung** Zweiseitig vertikal  
**Glass support** Two-sided vertical

### Einstufung Prüfelement lt. Angabe Hersteller / Grading test element acc. to manufacturer

Rahmenabmessungen Frame dimensions		Glasabmessungen Glass dimensions		Fallhöhe Drop height
Breite / Width	— mm	Breite / Width	2400 mm	900 mm
Höhe / Height	— mm	Höhe / Height	700 mm	

Das Profilsystem in Verbindung mit den Glasaufbauten erfüllt die Kriterien der ÖNORM B 3716-3 für eine maximale Fallhöhe von 900 mm.

The profile system in combination with the glass structures meets the criteria of ÖNORM B 3716-3 for a maximum pendulum drop height of 900 mm.



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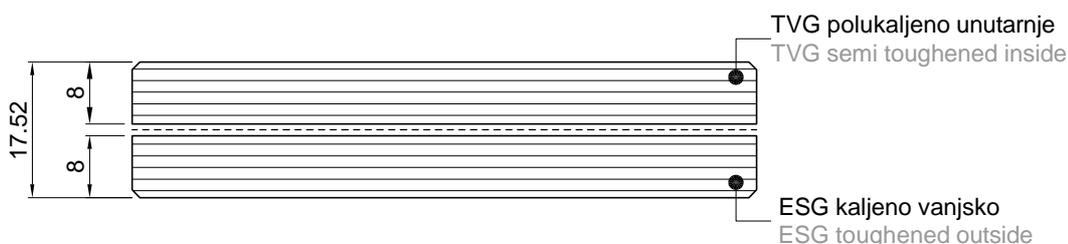
## Prikaz dopuštenih dimenzija stakala Table of allowed glass dimentions

Tablica 1: Staklo 88.4 TVG polukaljeno unutaranje - ESG kaljeno vanjsko  
Table 1: Glass 88.4 TVG semi toughened inside - ESG toughened outside

		Širina stakla (mm) Glass width (mm)																				
		700	800	900	1000	1100	1200	1300	1400	1500	1600	1700										
Visina sta. (mm) Glass heig. (mm)	700	X																			X	
	800																					
	900																					
	1000																					
	1100																					
	1200																					

Dopuštene dimenzije stakla  
 Allowed glass dimensions

X - Ispitano (klasa C5)  
 X - Tested (class C5)

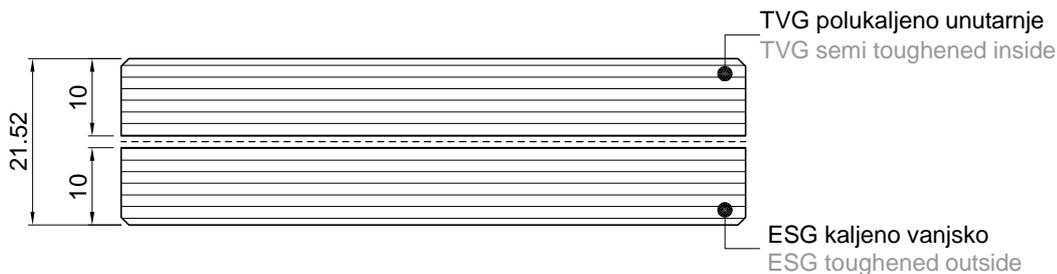


Tablica 2: Staklo 1010.4 TVG polukaljeno unutaranje - ESG kaljeno vanjsko  
Table 2: Glass 1010.4 TVG semi toughened inside - ESG toughened outside

		Širina stakla (mm) Glass width (mm)																				
		700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400			
Visina sta. (mm) Glass heig. (mm)	700	X																			X	
	800																					
	900																					
	1000																					
	1100																					
	1200																					

Dopuštene dimenzije stakla  
 Allowed glass dimensions

X - Ispitano (klasa C5)  
 X - Tested (class C5)



Tablični prikaz kategorija prostorija i odgovarajuće visine udara pri testiranju  
 Table of room categories and necessary testing pendel drop height

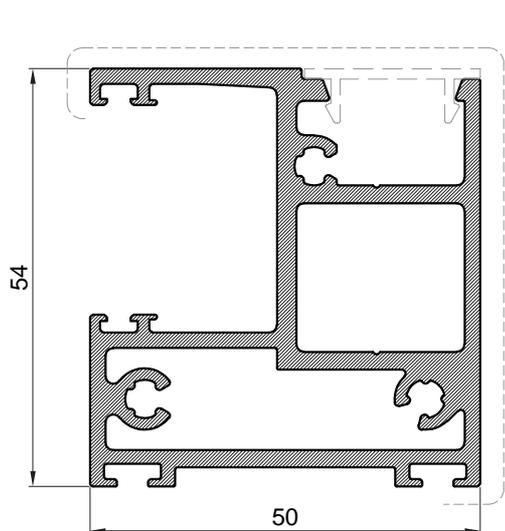
Visine udara Pendel drop height (ON B 3716-3 2015)		Tablica Table 3.	
Kategorija prostorije Category of use	Grupa ostakljenja 1 Glazing group 1	Grupa ostakljenja 2 Glazing group 2	Grupa ostakljenja 3 Glazing group 3
	1.1 Staklene pregrade Glass walls		
	1.2 Staklene ograde Glass balustrades		
	1.3 Francuski balkon French balcony		
A i B1	450 mm	300 mm	300 mm
B2 i C1	700 mm	450 mm	300 mm
C2, C3, C4 i D	700 mm	450 mm	300 mm
C5	900 mm	700 mm	450 mm
E	700 mm	450 mm	300 mm

Kategorija prostorije u zgradama EN 1991-1-1 Categories of uses in buildings EN 1991-1-1		Tablica 4. Table 4.	
Kategorija Category	Upotreba Specific use	Primjer Example	
A	stambene prostorije areas for domestic and residential activities	sobe u stambenim kućama i zgradama; sobe i odjeli u bolnicama; sobe u hotelima i pensionima; kuhinje i kupaonice rooms in residential buildings and houses bedrooms and wards in hospitals; bedrooms in hotels and hostels ;kitchens and toilets.	
B	uredske prostorije office areas		
C	prostorije gdje se mogu okupljati ljudi (osim prostorija određenih u kategorijama A, B, D i E) Areas where people may congregate (with the exception of areas defined under category A, B, D i E)	C1: prostorije sa stolovima i slično, npr. u školama, kavanama, restoranima, blagavaonicama, knjižnicama, recepcijama. C1: Areas with tables, etc. e.g. areas in schools, cafes, restaurants, dining halls, reading rooms, receptions. C2: prostorije s nepomičnim stolicama, npr. u crkvama, kazalištima, kinima, sobe za sastanke, dvorane za predavanje, čekaonice i slično. C2: Areas with fixed seats, e.g. areas in churches, theatres or cinemas, conference rooms, lecture halls, assembly halls, waiting rooms, railway waiting rooms. C3: prostorije bez prepreka za kretanje ljudi, npr u muzejima, izložbenim prostorima itd. te pristupi u javnim i administrativnim zgradama, hotelima i sl. C3: Areas without obstacles for moving people, areas in museums, exhibition rooms, etc. and access areas in public and administration buildings, hotels, hospitals, railway station forecourts. C4: sportske prostorije i prostori za igru, npr. plesne dvorane gimnastičke dvorane, pozornice i sl. C4: Areas with possible physical activities, e.g. dance halls, gymnastic rooms, stages. C5: prostorije za velika okupljanja ljudi, npr. u zgradama za javne priredbe, kao što su koncertne dvorane, sportske dvorane, uključujući gledališta, terase, prilaze itd. C5: Areas susceptible to large crowds, e.g. in buildings for public events like concert halls, sports halls including stands, terraces and access areas and railway platforms.	
D	prodajne prostorije shopping areas	D1: prostorije u trgovinama D2: prostorije u robnim kućama i trgovinama naveliko, papirnicama i knjižarama itd. D1: areas in general retail shops D2: areas in department stores	
E	prostorije s mogućnosti gomilanja robe i stvari i prilazi areas susceptible to storage of accumulation of good including access areas	skladišta, uključujući i knjižnice. areas for storage use including storage of books and other documents.	

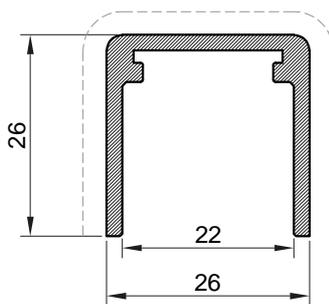


# Profili Profiles

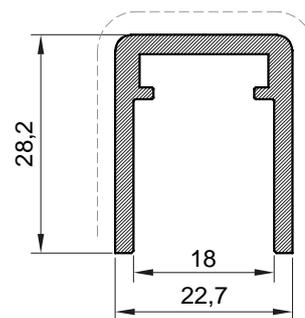




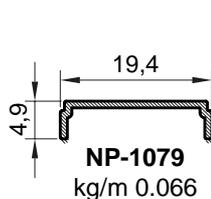
**F-1569**  
kg/m 1.78



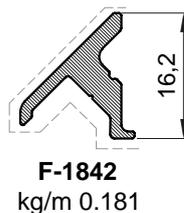
**F-1437**  
kg/m 0.44



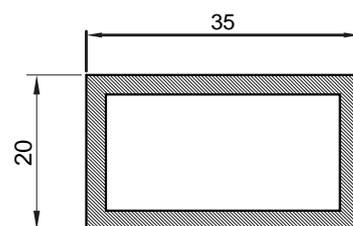
**F-1490**  
kg/m 0.512



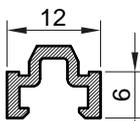
**NP-1079**  
kg/m 0.066



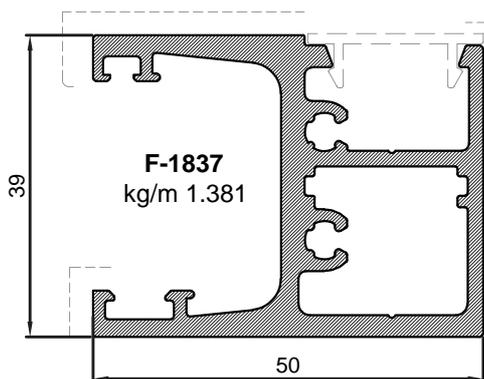
**F-1842**  
kg/m 0.181



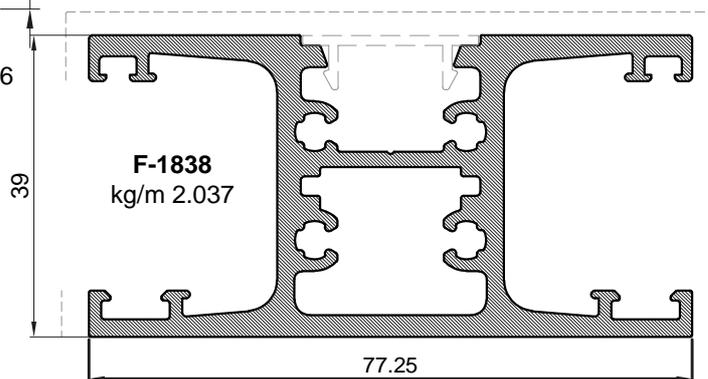
**F-0514**  
kg/m 0.675



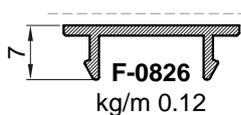
**FM 6/12**  
kg/m 0.116



**F-1837**  
kg/m 1.381



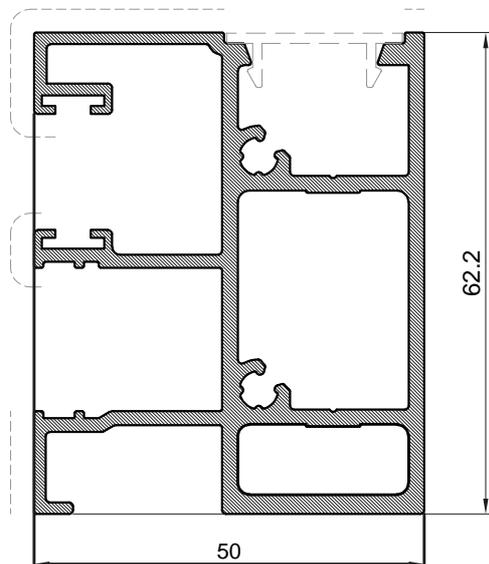
**F-1838**  
kg/m 2.037



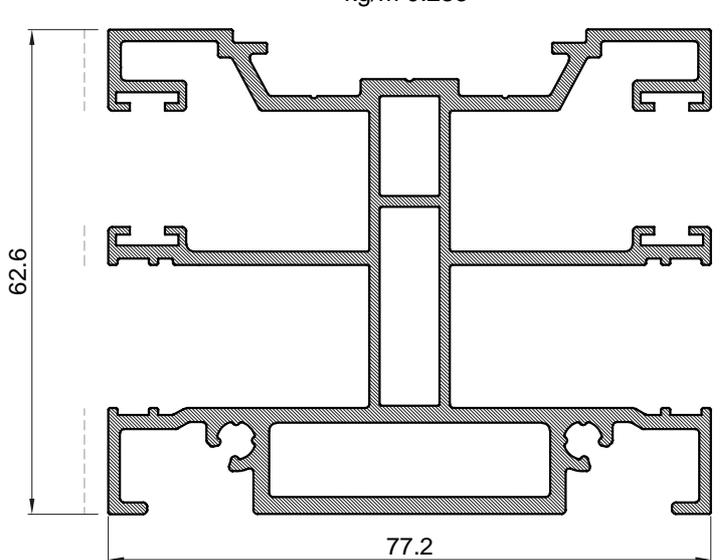
**F-0826**  
kg/m 0.12



**F-0866**  
kg/m 0.236

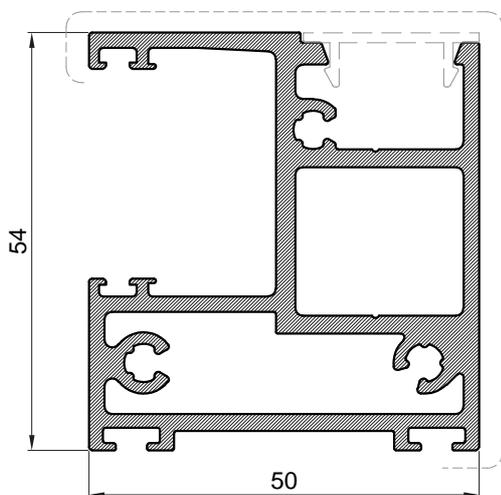


**F-1839**  
kg/m 1.78

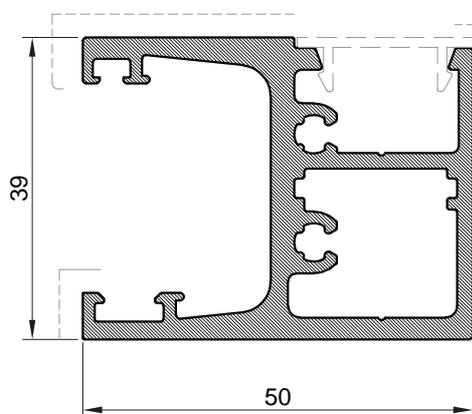


**F-1890**  
kg/m 2.203

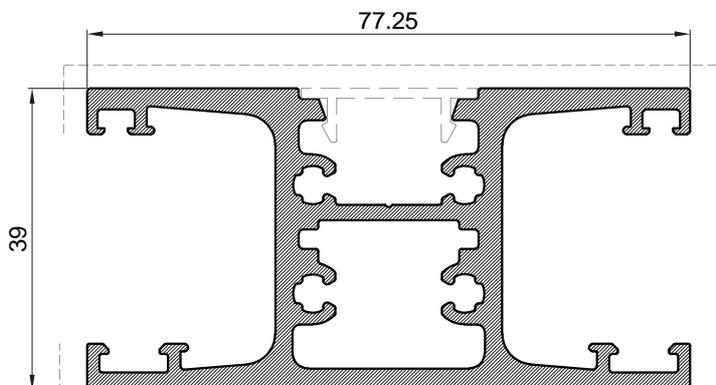




Profil Profile		
Art.Br. Art.No.	<b>F-1569</b>	
Težina Weight	kg/m	1.78
Opseg Perimeter	mm	357.20
Moment inercije Moment of inertia	I <sub>x</sub> (cm <sup>4</sup> )	19.24
	I <sub>y</sub> (cm <sup>4</sup> )	17.23
	W <sub>x</sub> (cm <sup>3</sup> )	6.41
	W <sub>y</sub> (cm <sup>3</sup> )	6.32
L	mm	-

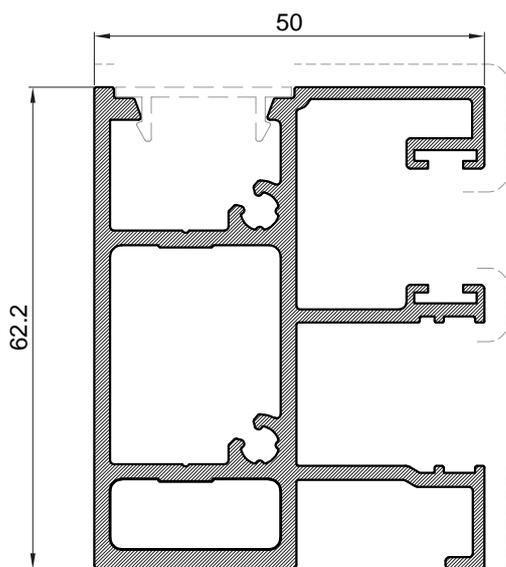


Profil francuskog balkona Profile french balcony		
Art.Br. Art.No.	<b>F-1837</b>	
Težina Weight	kg/m	1.381
Opseg Perimeter	mm	303.00
Moment inercije Moment of inertia	I <sub>x</sub> (cm <sup>4</sup> )	9.92
	I <sub>y</sub> (cm <sup>4</sup> )	10.01
	W <sub>x</sub> (cm <sup>3</sup> )	4.73
	W <sub>y</sub> (cm <sup>3</sup> )	3.65
L	mm	-



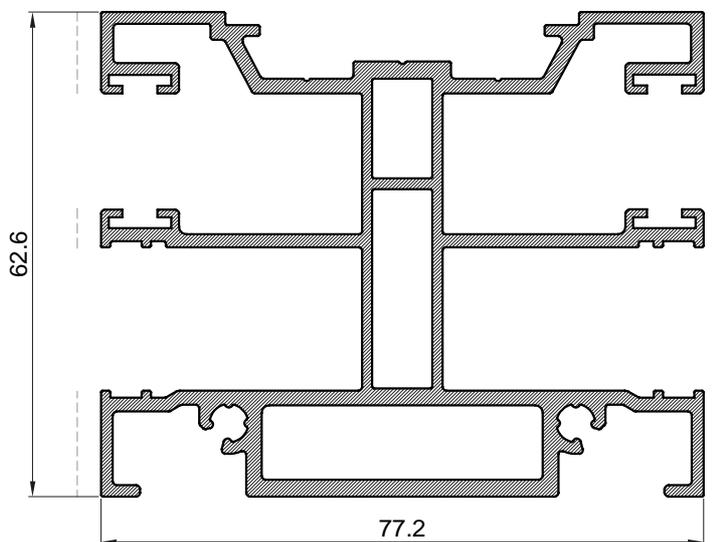
Profil za francuski balkon-obostrano  
Profile for french balcony-both sides

Art.Br. Art.No.	<b>F-1838</b>	
Težina Weight	kg/m	2.037
Opseg Perimeter	mm	455.00
Moment inercije Moment of inertia	I <sub>x</sub> (cm <sup>4</sup> )	16.04
	I <sub>y</sub> (cm <sup>4</sup> )	30.30
	W <sub>x</sub> (cm <sup>3</sup> )	7.89
	W <sub>y</sub> (cm <sup>3</sup> )	7.85
L	mm	-



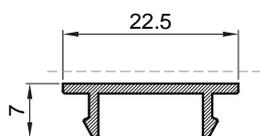
Profil za komaricu i sjenilo  
Profile for mosquito net and shades

Art.Br. Art.No.	<b>F-1839</b>	
Težina Weight	kg/m	1.689
Opseg Perimeter	mm	461.00
Moment inercije Moment of inertia	I <sub>x</sub> (cm <sup>4</sup> )	25.15
	I <sub>y</sub> (cm <sup>4</sup> )	15.53
	W <sub>x</sub> (cm <sup>3</sup> )	7.67
	W <sub>y</sub> (cm <sup>3</sup> )	5.47
L	mm	-



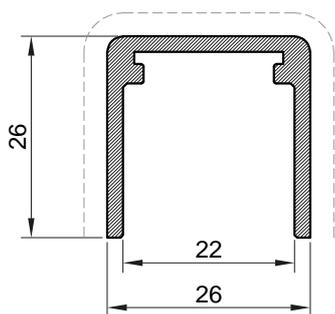
Profil za komaricu i sjenilo  
Profile for mosquito net  
and shades

Art.Br. Art.No.	<b>F-1890</b>	
Težina Weight	kg/m	2.252
Opseg Perimeter	mm	782.00
Moment inercije Moment of inertia	Ix (cm <sup>4</sup> )	41.97
	Iy (cm <sup>4</sup> )	37.01
	Wx (cm <sup>3</sup> )	10.87
	Wy (cm <sup>3</sup> )	11.22
L	mm	-



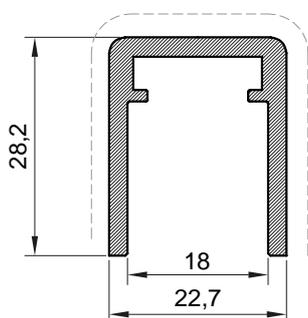
Poklopna lajsna Cover cup

Art.Br. Art.No.	<b>F-0826</b>	
Težina Weight	kg/m	0.12
Opseg Perimeter	mm	70.30
L	mm	-



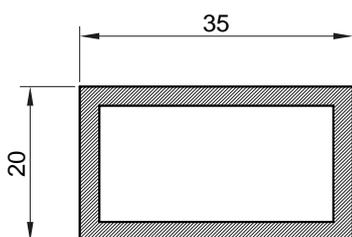
Profil rukohvata za 1010.4  
Handrail profile for 1010.4

Art.Br. Art.No.	<b>F-1437</b>	
Težina Weight	kg/m	0.44
Opseg Perimeter	mm	154.63
L	mm	-



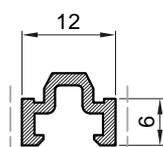
Profil rukohvata za 88.4  
Handrail profile for 88.4

Art.Br. Art.No.	<b>F-1490</b>	
Težina Weight	kg/m	0.512
Opseg Perimeter	mm	157.82
L	mm	-



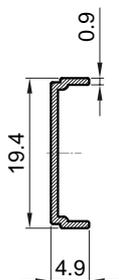
Profil 20x35  
Profile 20x35

Art.Br. Art.No.	<b>F-0514</b>	
Težina Weight	kg/m	0.675
Opseg Perimeter	mm	110.00
L	mm	-

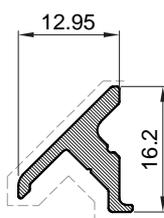


Profil umetka  
Insert profile

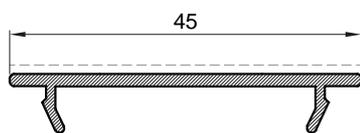
Art.Br. Art.No.	<b>FM 6 / 12</b>	
Težina Weight	kg/m	0.120
Opseg Perimeter	mm	61.00
L	mm	-



Profil Profile		
Art.Br. Art.No.	<b>NP-1079</b>	
Težina Weight	kg/m	0.07
Opseg Perimeter	mm	55.40
L	mm	-



Profil okapnice Drip edge profile		
Art.Br. Art.No.	<b>F-1842</b>	
Težina Weight	kg/m	0.18
Opseg Perimeter	mm	63.00
L	mm	-



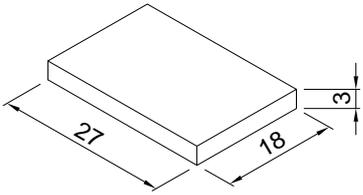
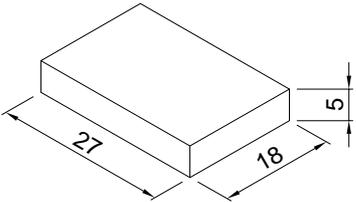
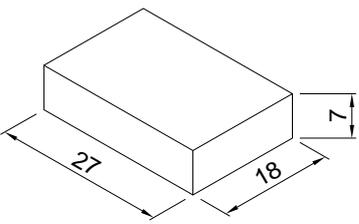
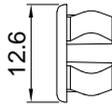
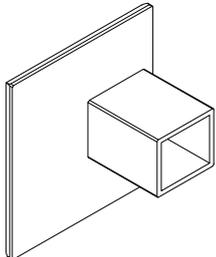
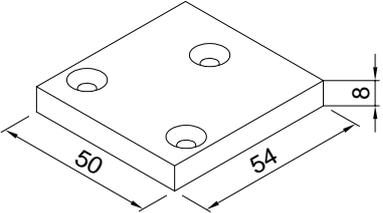
Profil Profile		
Art.Br. Art.No.	<b>F-0866</b>	
Težina Weight	kg/m	0.24
Opseg Perimeter	mm	117.00
L	mm	-

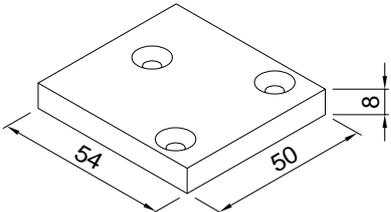
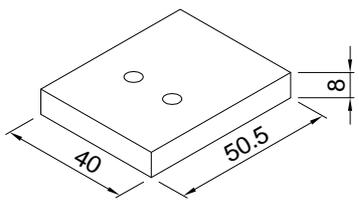
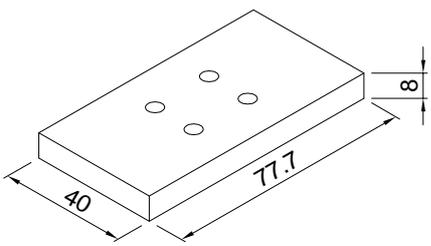
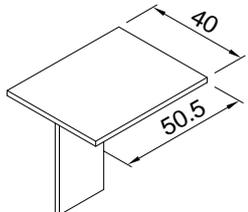
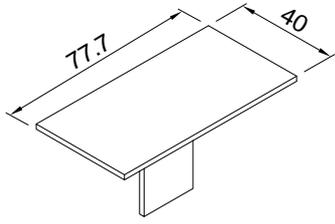
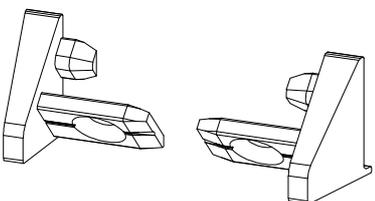


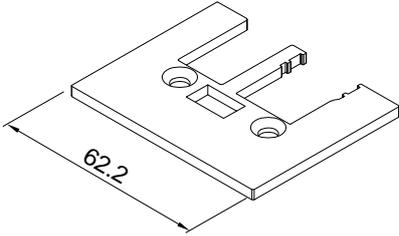
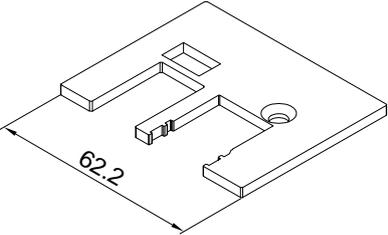
# Vezni elementi

## Connection elements



Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
370.000		-Podmetač za staklo d=3 mm -Glass spacer d=3 mm	PVC	
370.001		-Podmetač za staklo d=5 mm -Glass spacer d=5 mm	PVC	
370.002		-Podmetač za staklo d=7 mm -Glass spacer d=7 mm	PVC	
370.023		- PVC čep za maskiranje rupa - za rupu Ø10 mm - PVC cap for screw hole - for hole Ø10 mm	PVC	
373.054		Gornji čep okomice francuskog balkona Upper cover cap of french balcony profile	PVC	
391.149.01 02 03		- Aluminijaska nosiva pločica francuskog balkona desna - French balcony aluminium glass support right	Al	

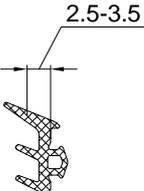
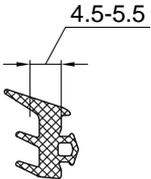
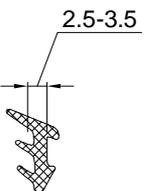
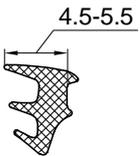
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
391.148.01 02 03		- Aluminijaska nosiva pločica francuskog balkona lijeva - French balcony aluminium glass support left	Al	
521.499.01 02 03		- Donji poklopac za F-1837	Al	
521.500.01 02 03		-Donji poklopac za F-1838	Al	
521.501.01 02 03		-Gornji poklopac za F-1837	Al	
521.502.01 02 03		-Gornji poklopac za F-1838	Al	
373.079		-Umetak za okapnicu F-1842 (13 mm) L+R	Tvrda guma	85 ShA

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
521.552.01 02 03		-Poklopac za fr balkon, desni -Right cap for Juliet's balcony	Al	
521.553.01 02 03		-Poklopac za fr balkon, lijevi -Left cap for Juliet's balcony	Al	



# Brtve Gaskets



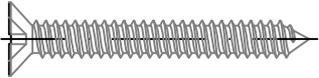
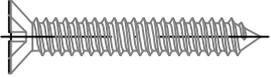
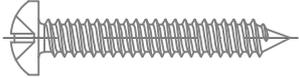
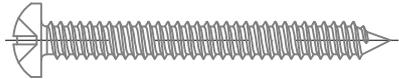
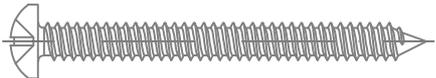
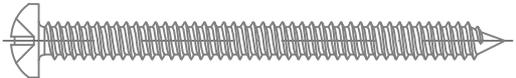
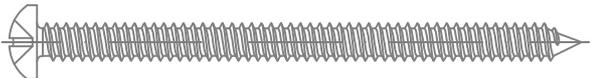
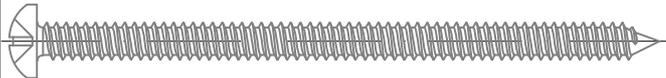
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
340.055		-Brtva u profilu F-1569 -Gasket in profile F-1569	ELASTRON	
321.002		- Brtva prema staklu /vanjska/ - Glass gasket /exterior/	EPDM	61
321.003		- Brtva prema staklu /vanjska/ - Glass gasket /exterior/	EPDM	61
311.001		- Brtva prema staklu /unutarnja/ - Glass gasket /interior/	EPDM	71
311.007		- Brtva prema staklu /unutarnja/ - Glass gasket /interior/	EPDM	71



# Dodaci

## Accessories



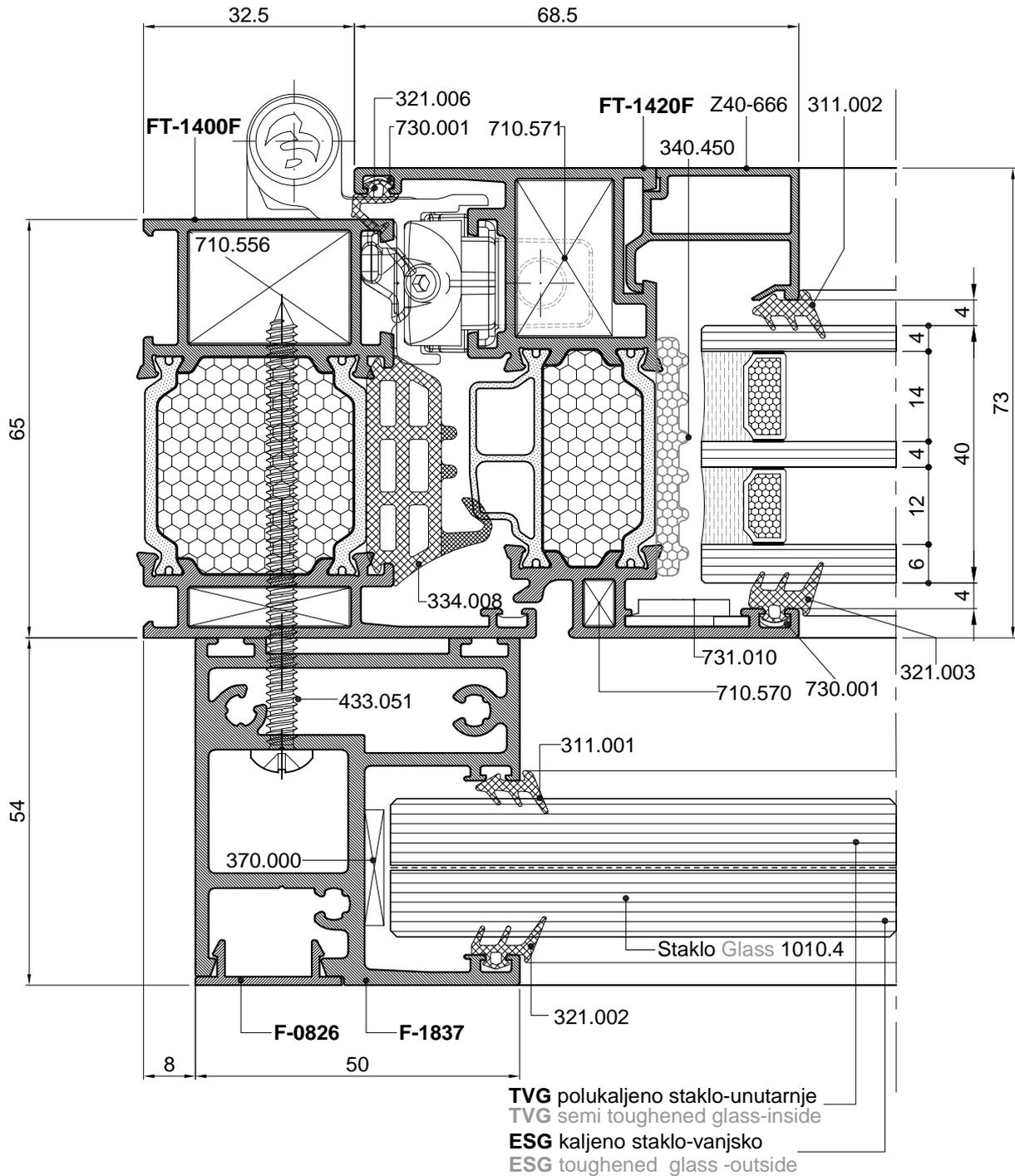
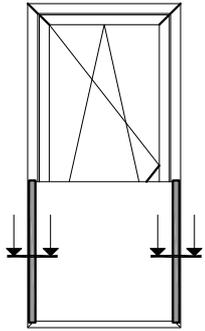
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Napomena Remark
433.134		4.8x38 DIN 7982	Inox A2	
433.133		4.8x32 DIN 7982	Inox A2	
433.046		4.8x32 DIN 7981	Inox A2	
433.048		4.8x45 DIN 7981	Inox A2	
433.049		4.8x50 DIN 7981	Inox A2	
433.050		4.8x60 DIN 7981	Inox A2	
433.051		4.8x70 DIN 7981	Inox A2	
433.052		4.8x80 DIN 7981	Inox A2	

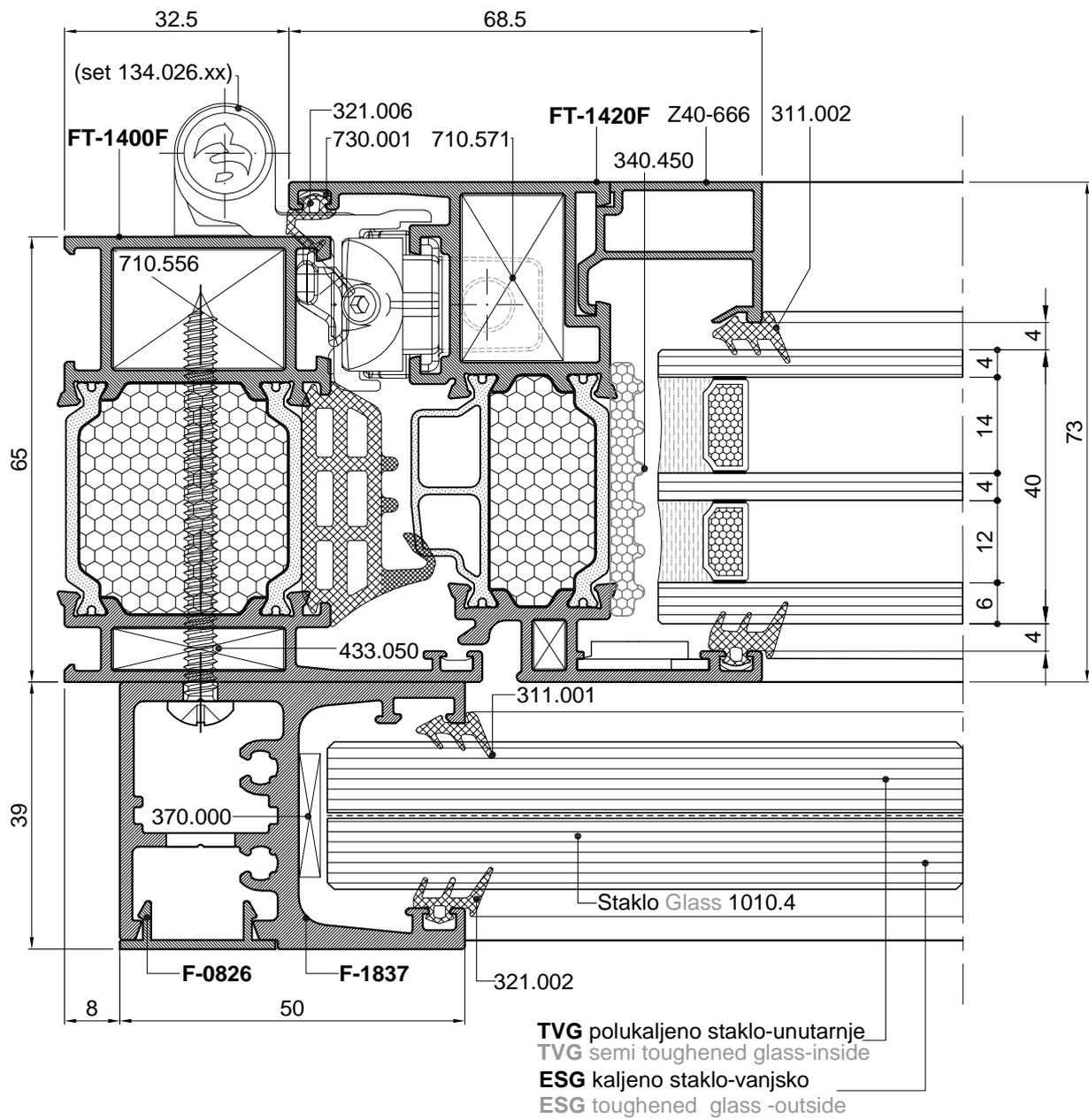
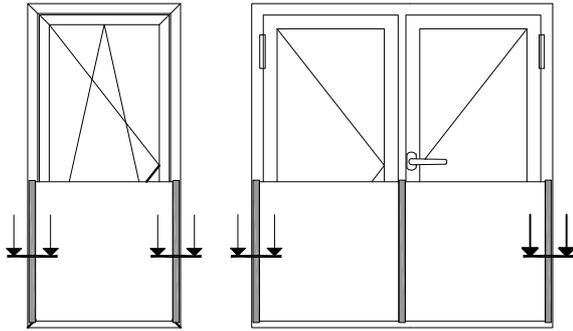


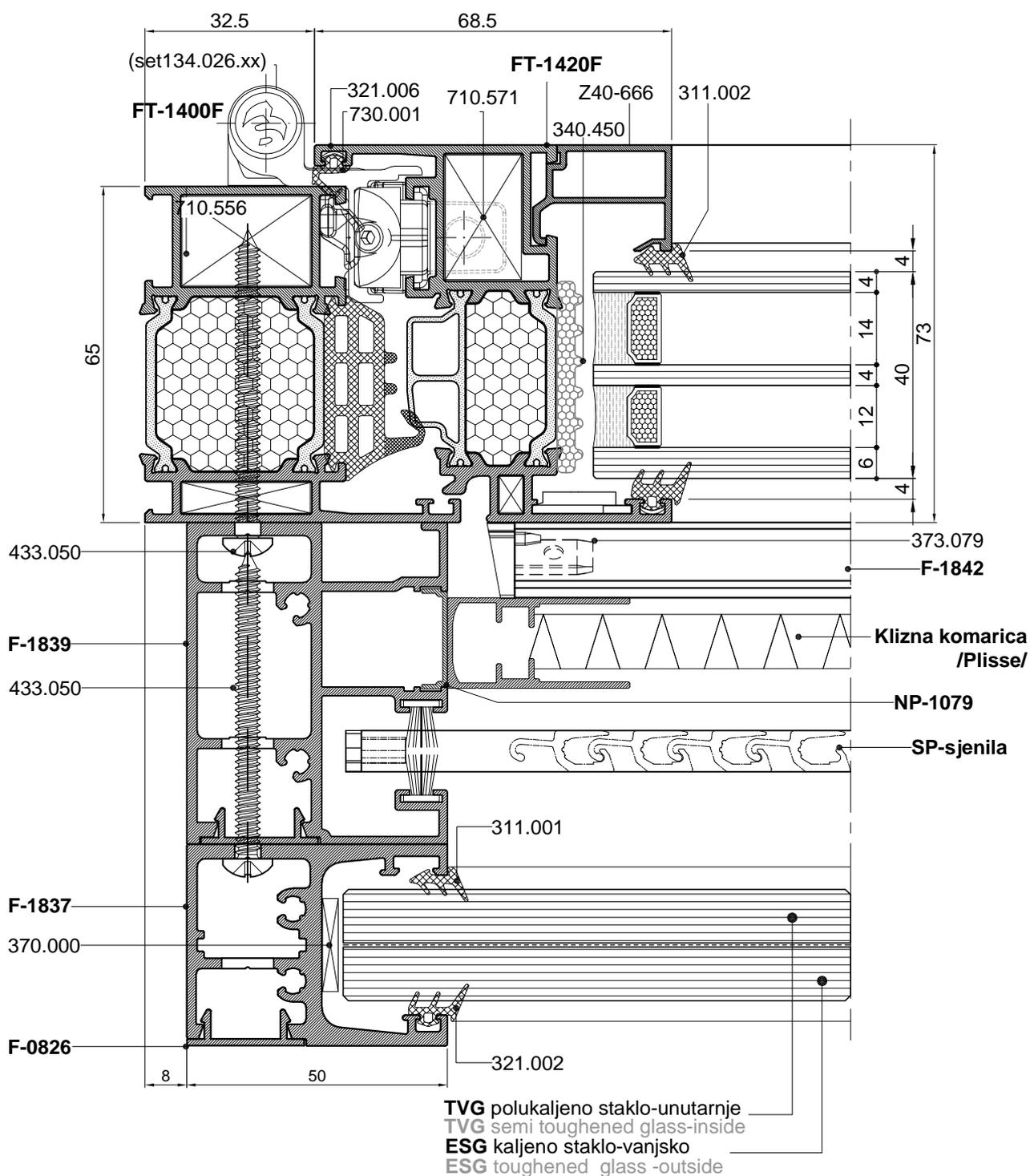
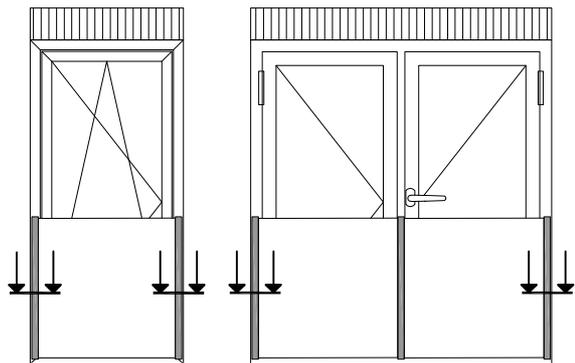
# Presjeci

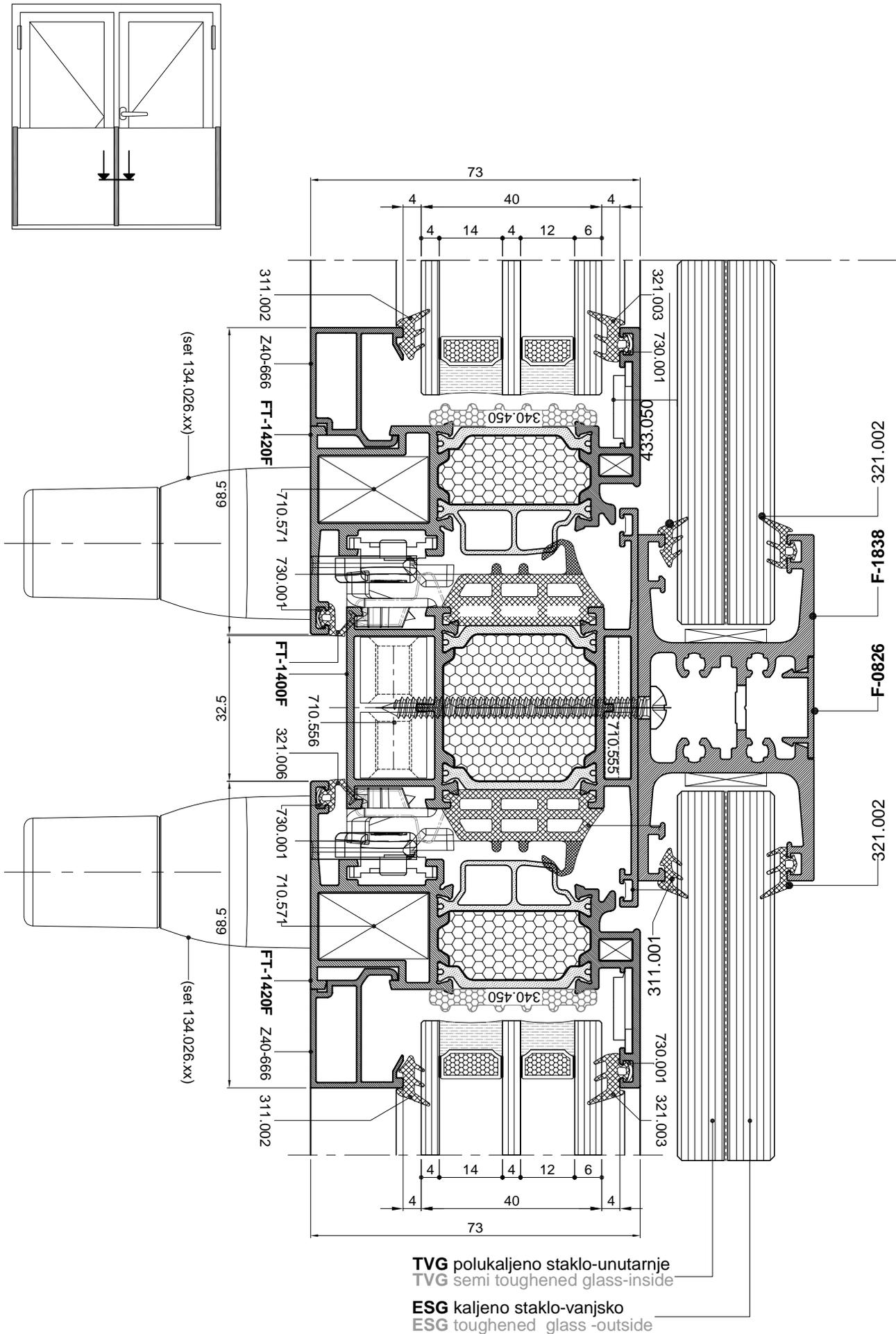
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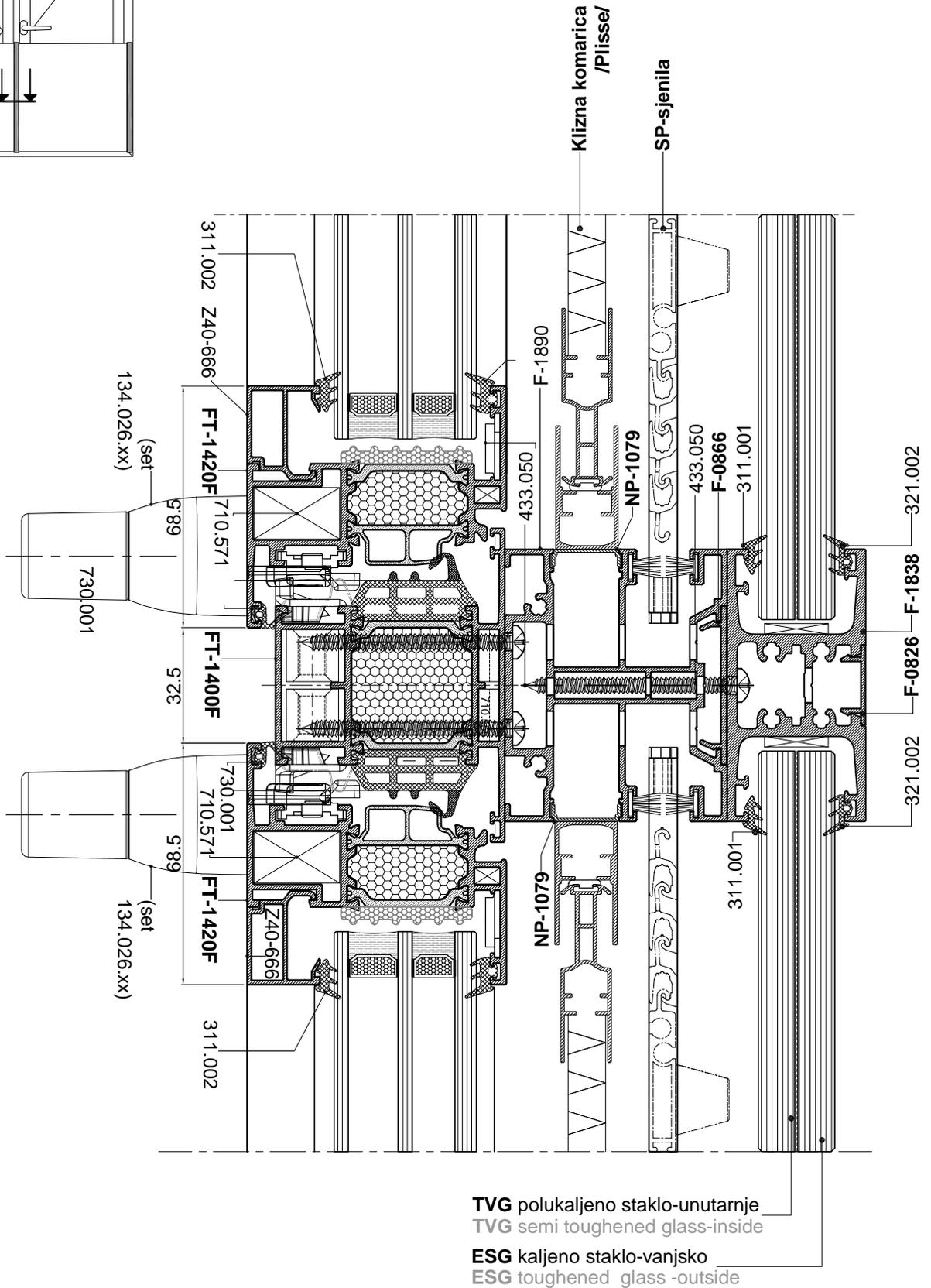
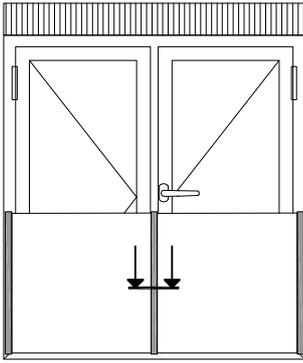


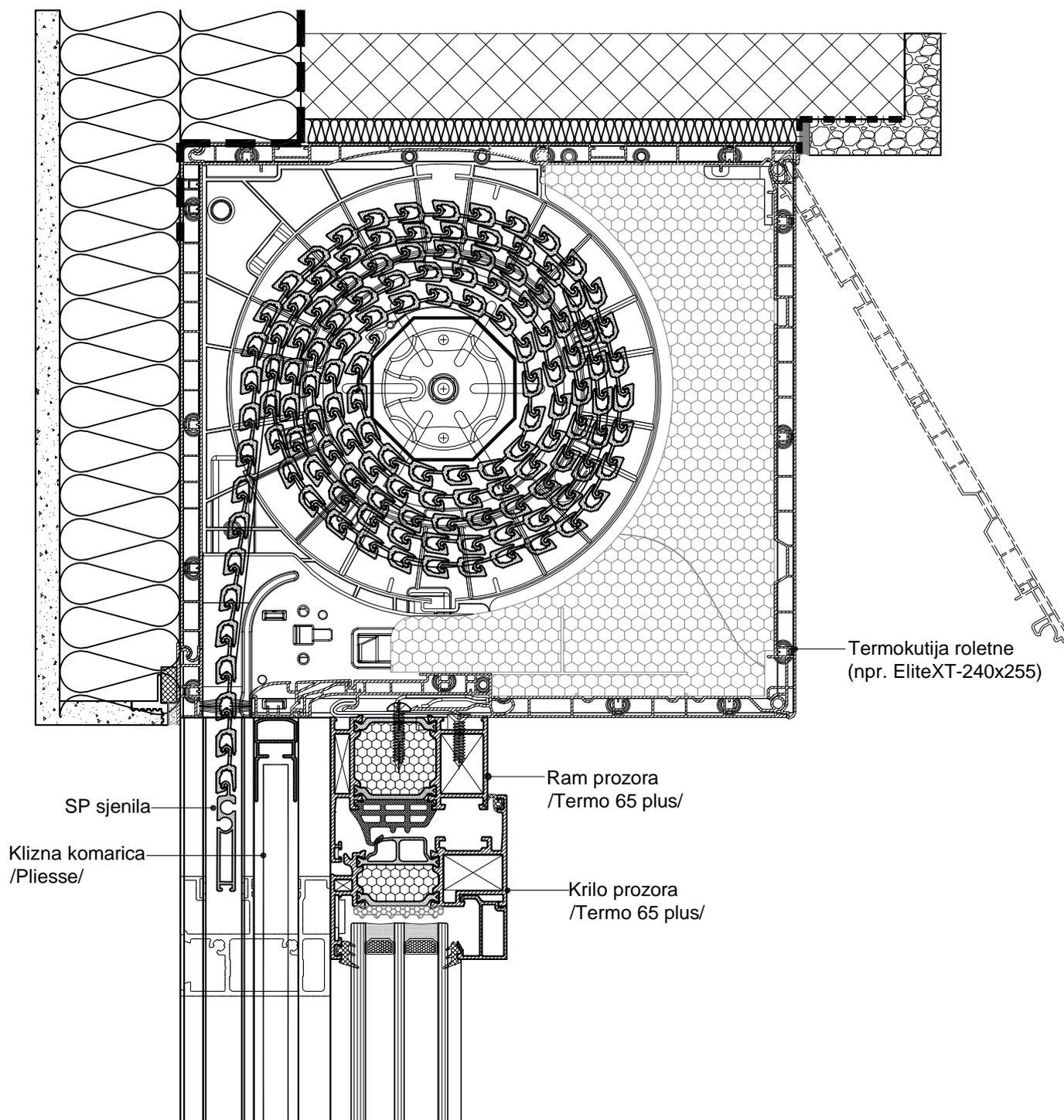
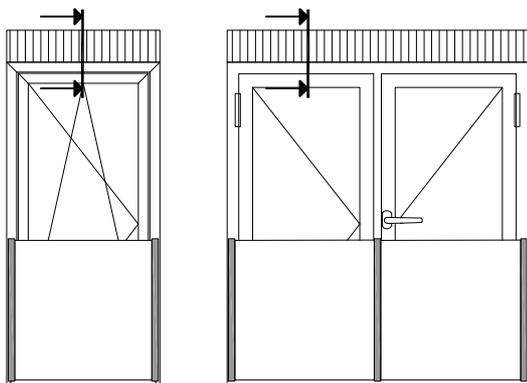


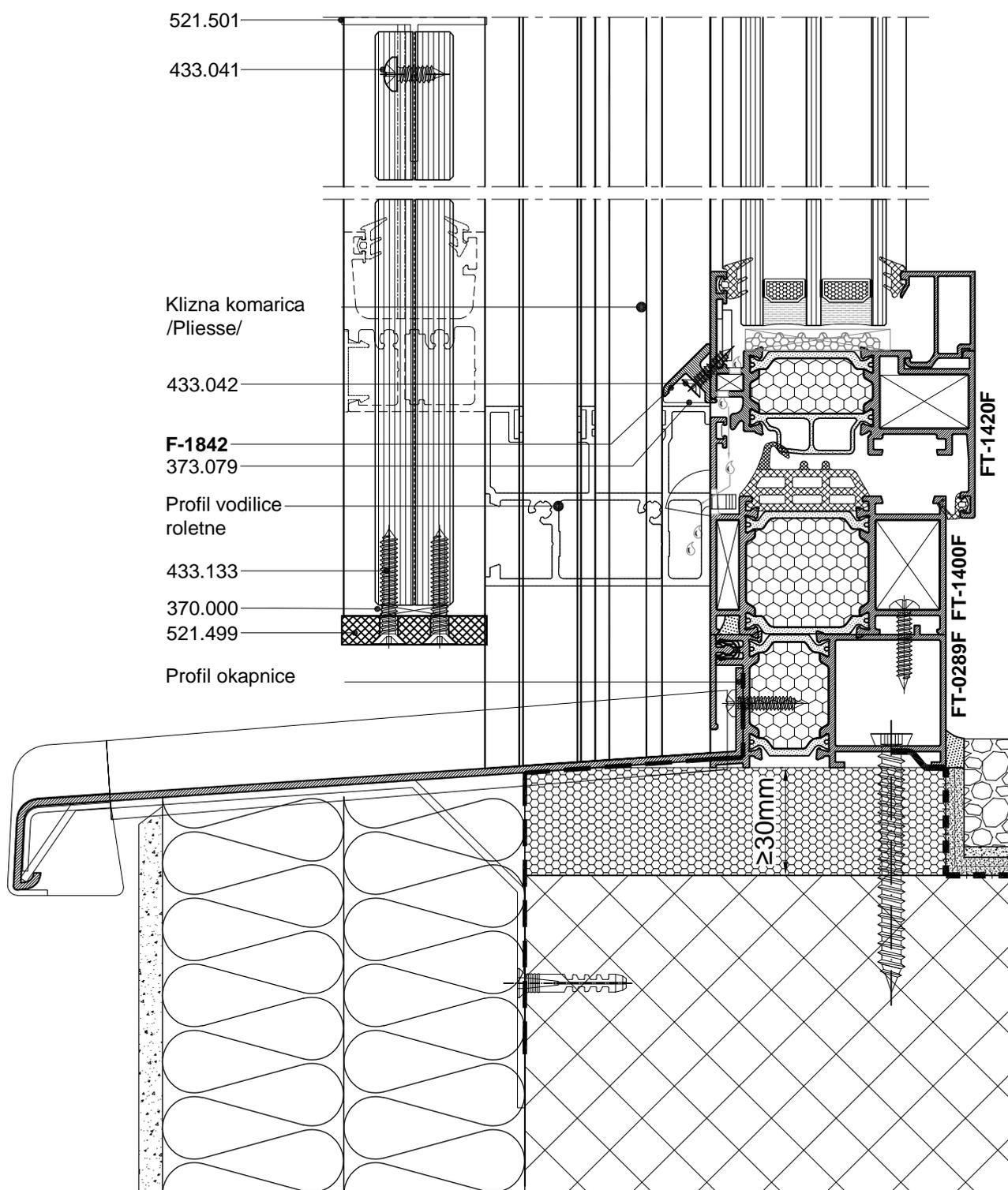
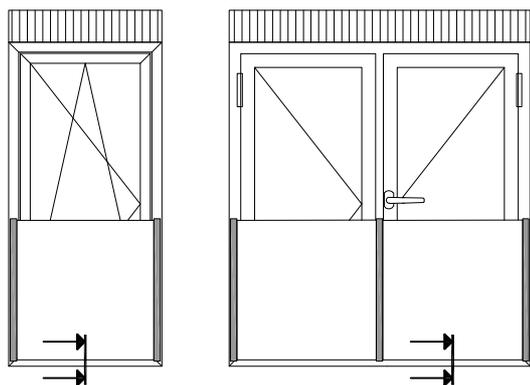


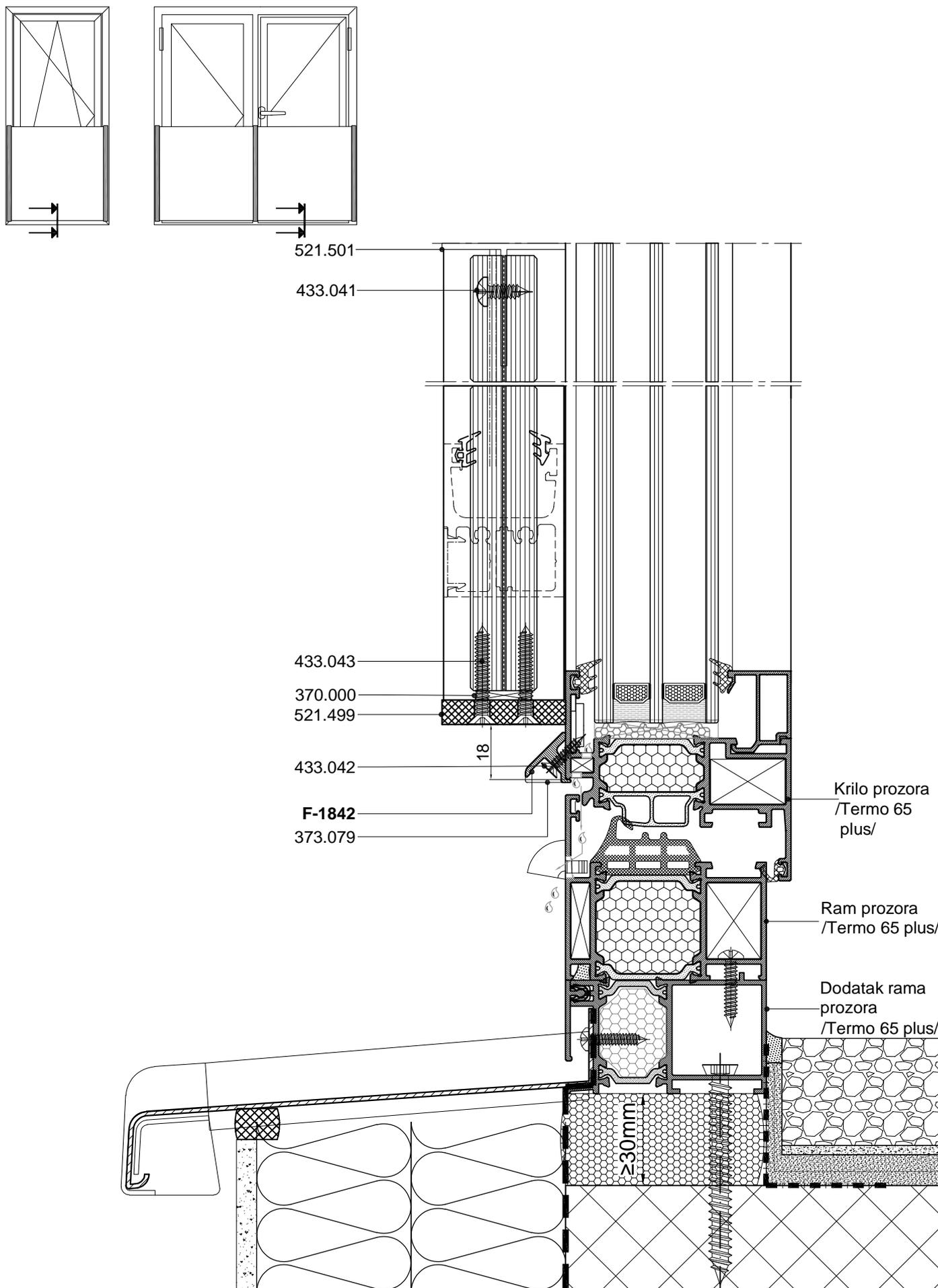




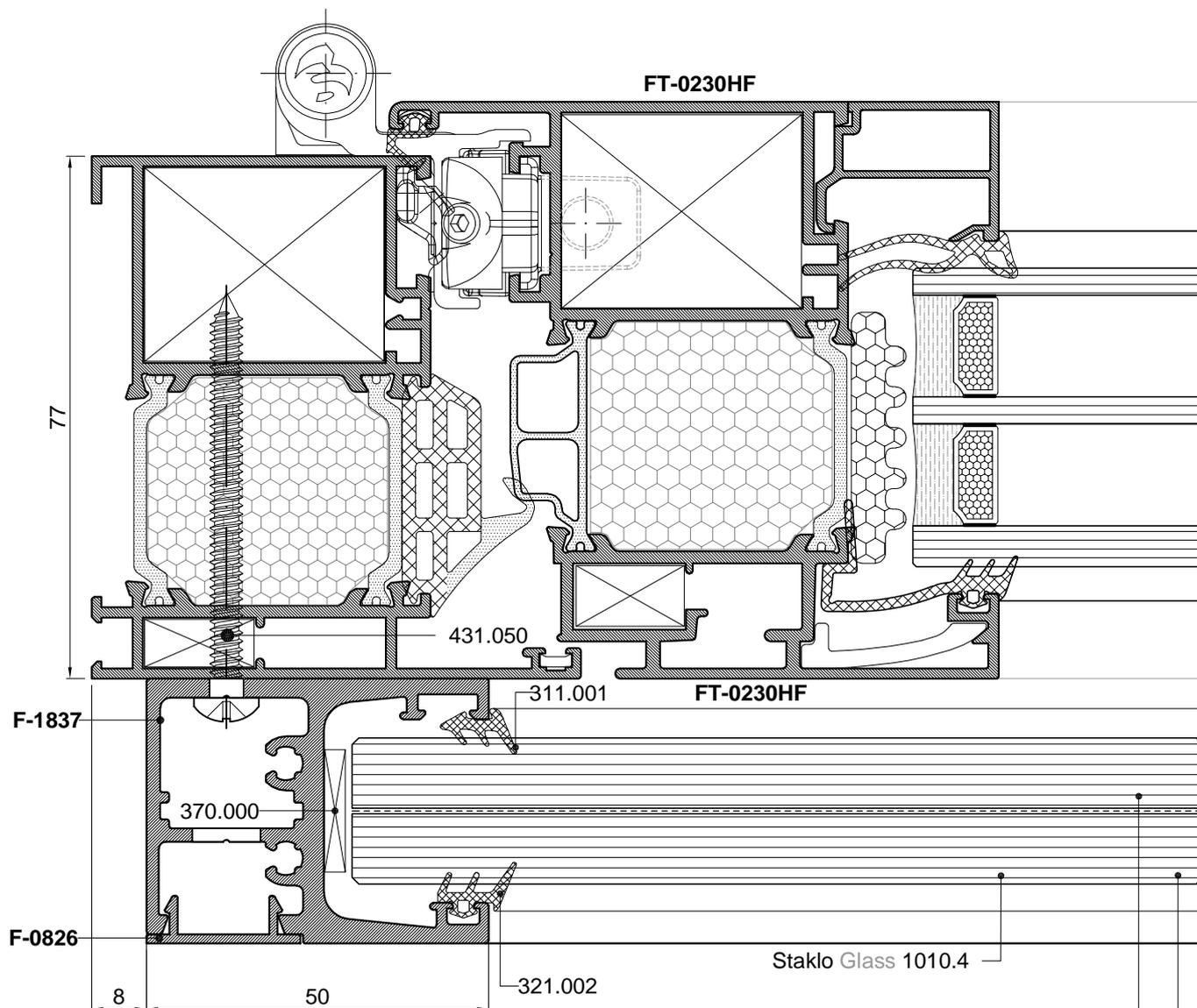
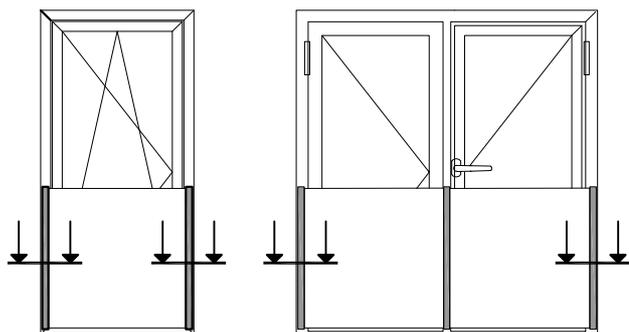








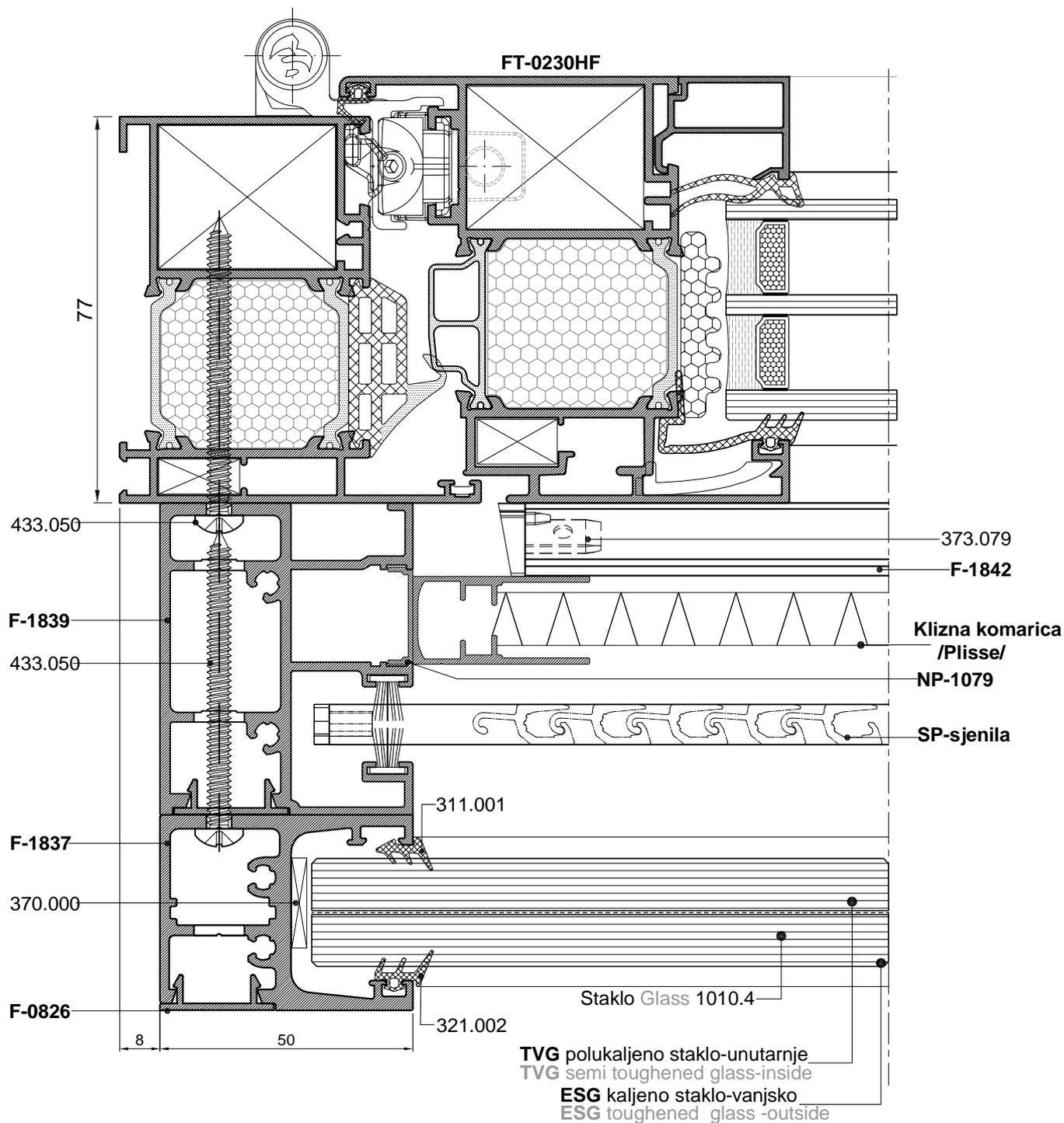
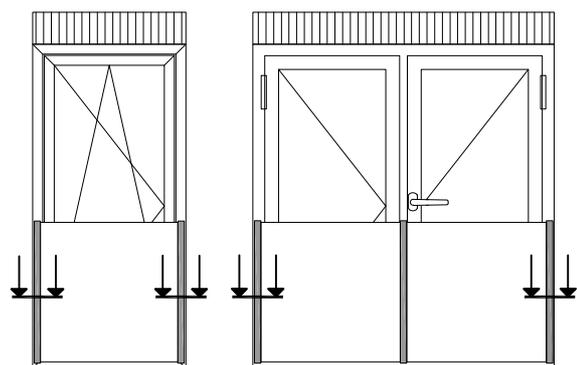


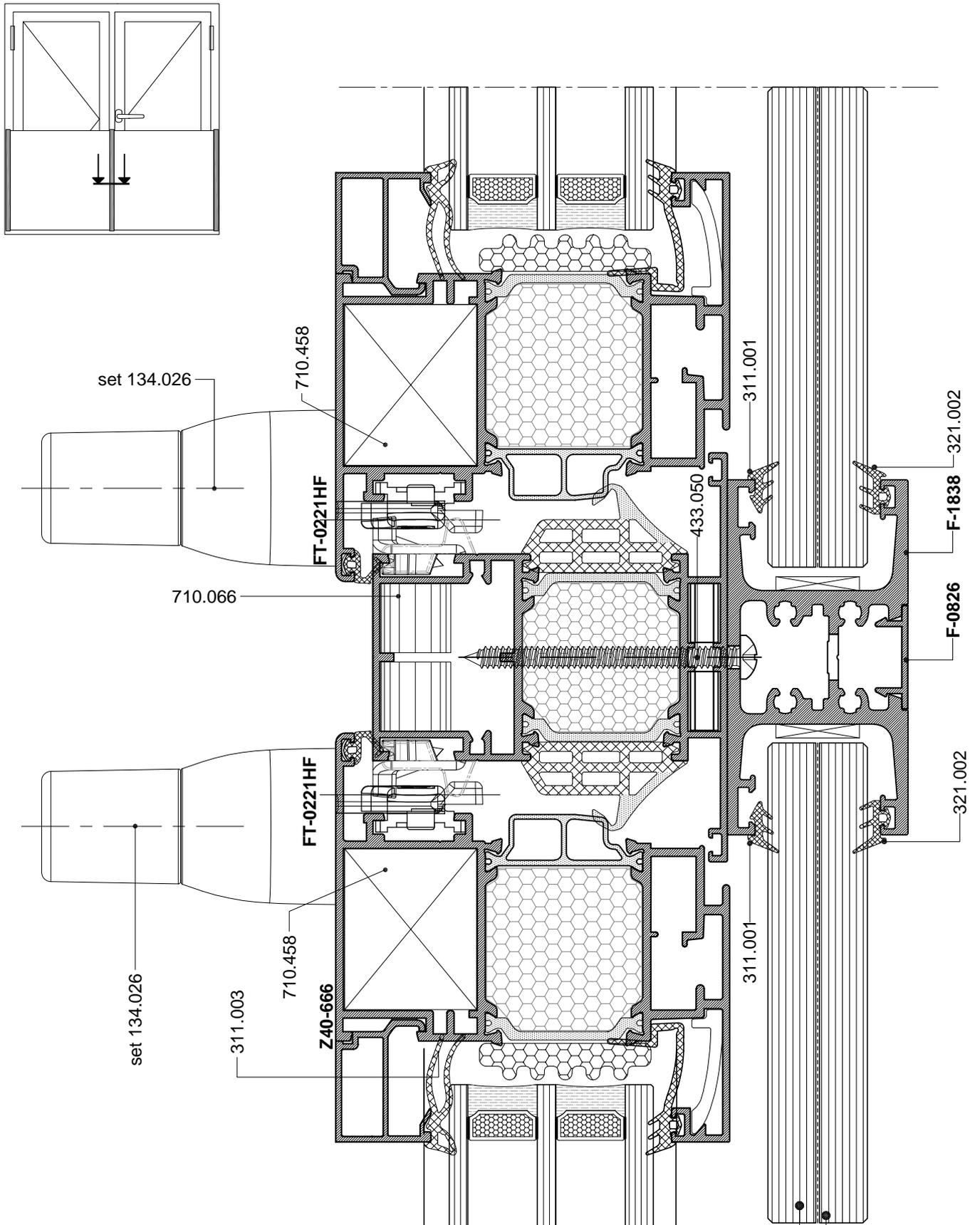


Staklo Glass 1010.4

**TVG** polukaljeno staklo-unutarnje  
TVG semi toughened glass-inside

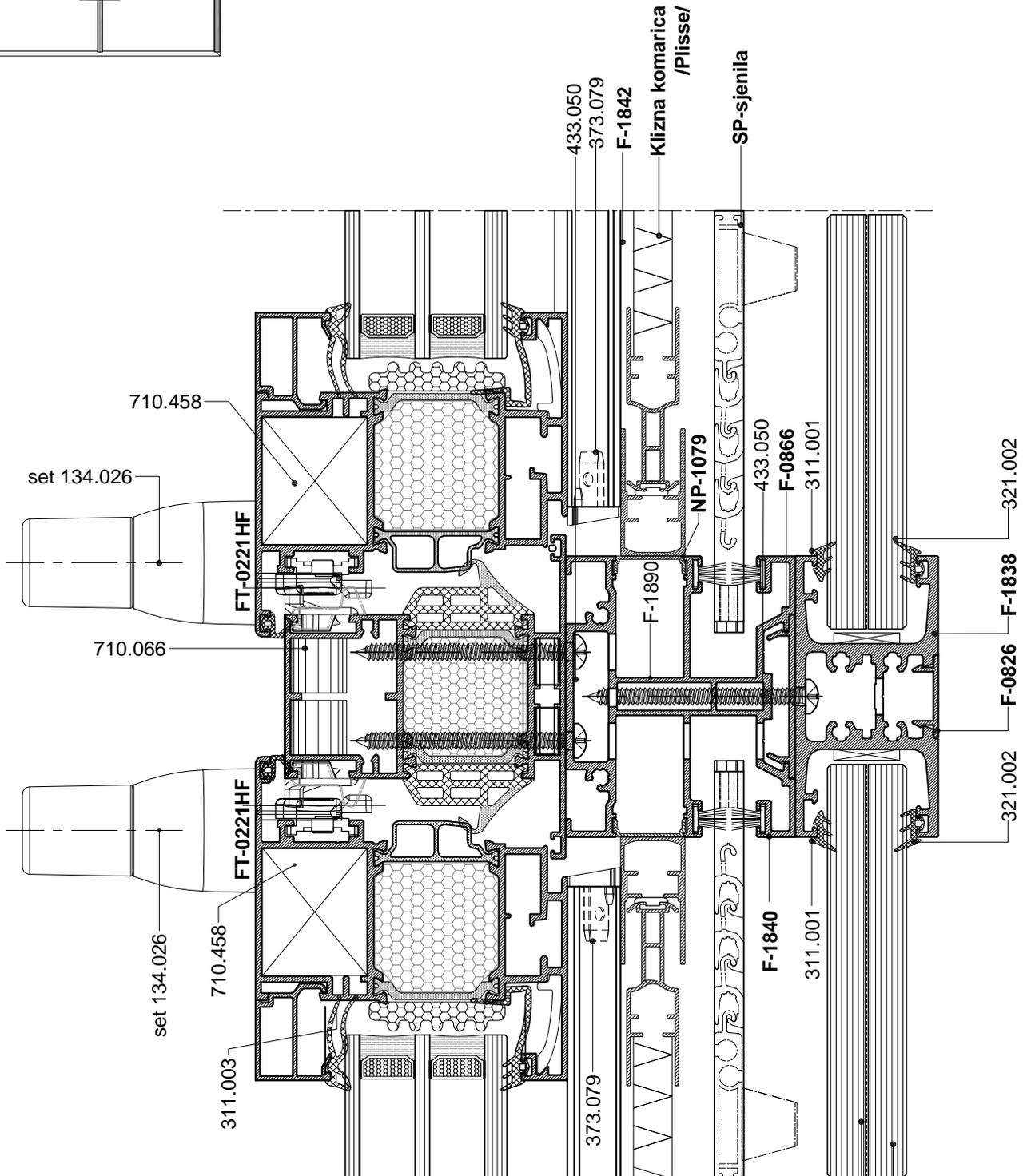
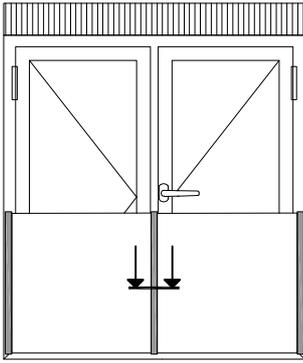
**ESG** kaljeno staklo-vanjsko  
ESG toughened glass -outside



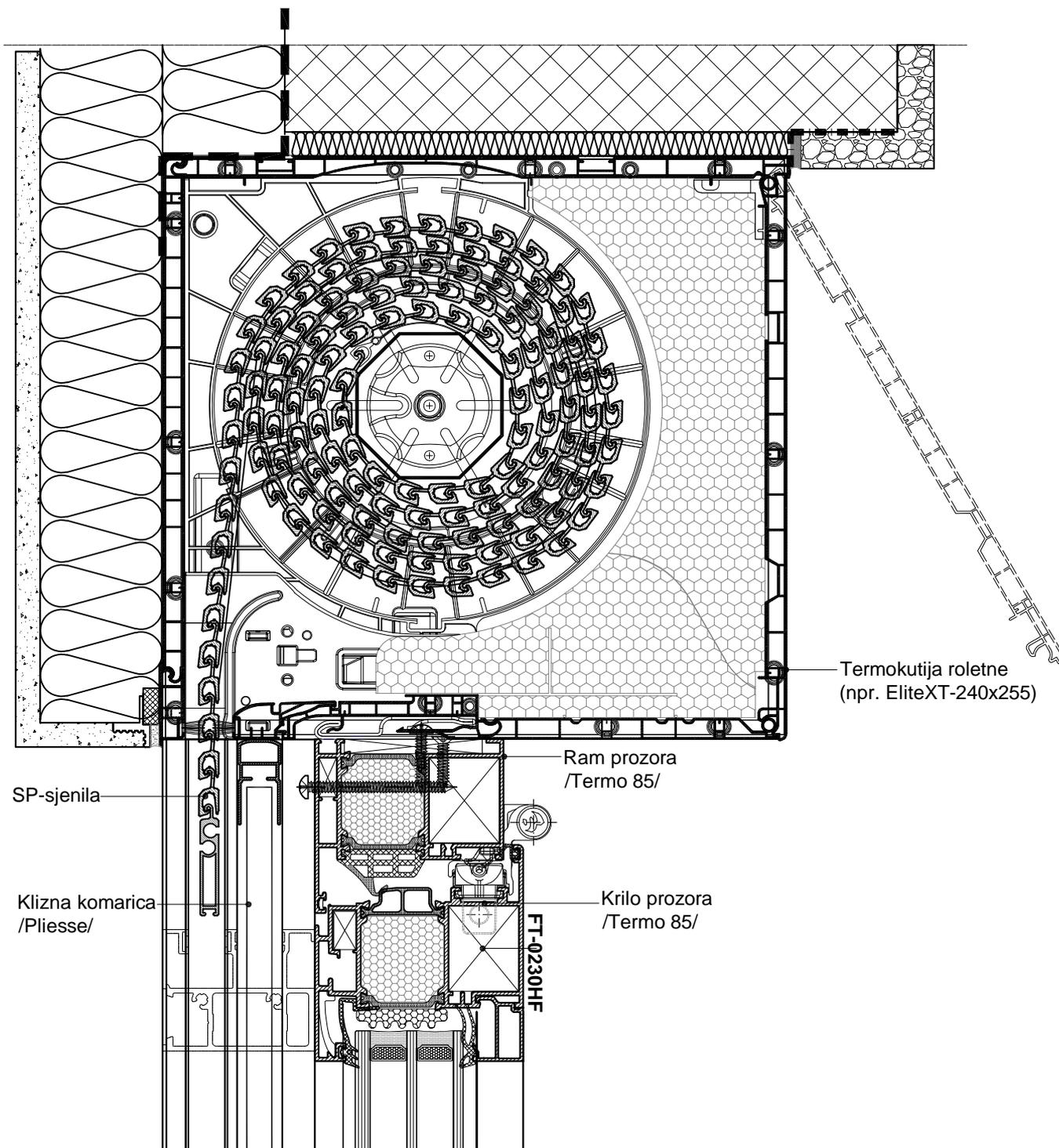
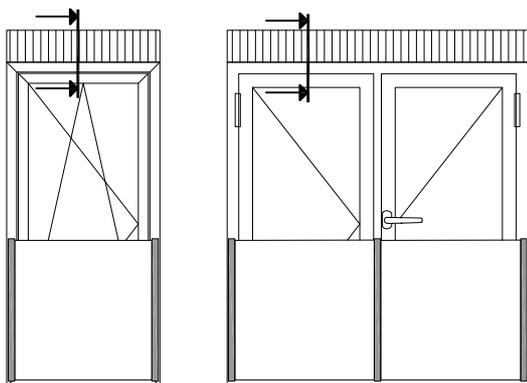


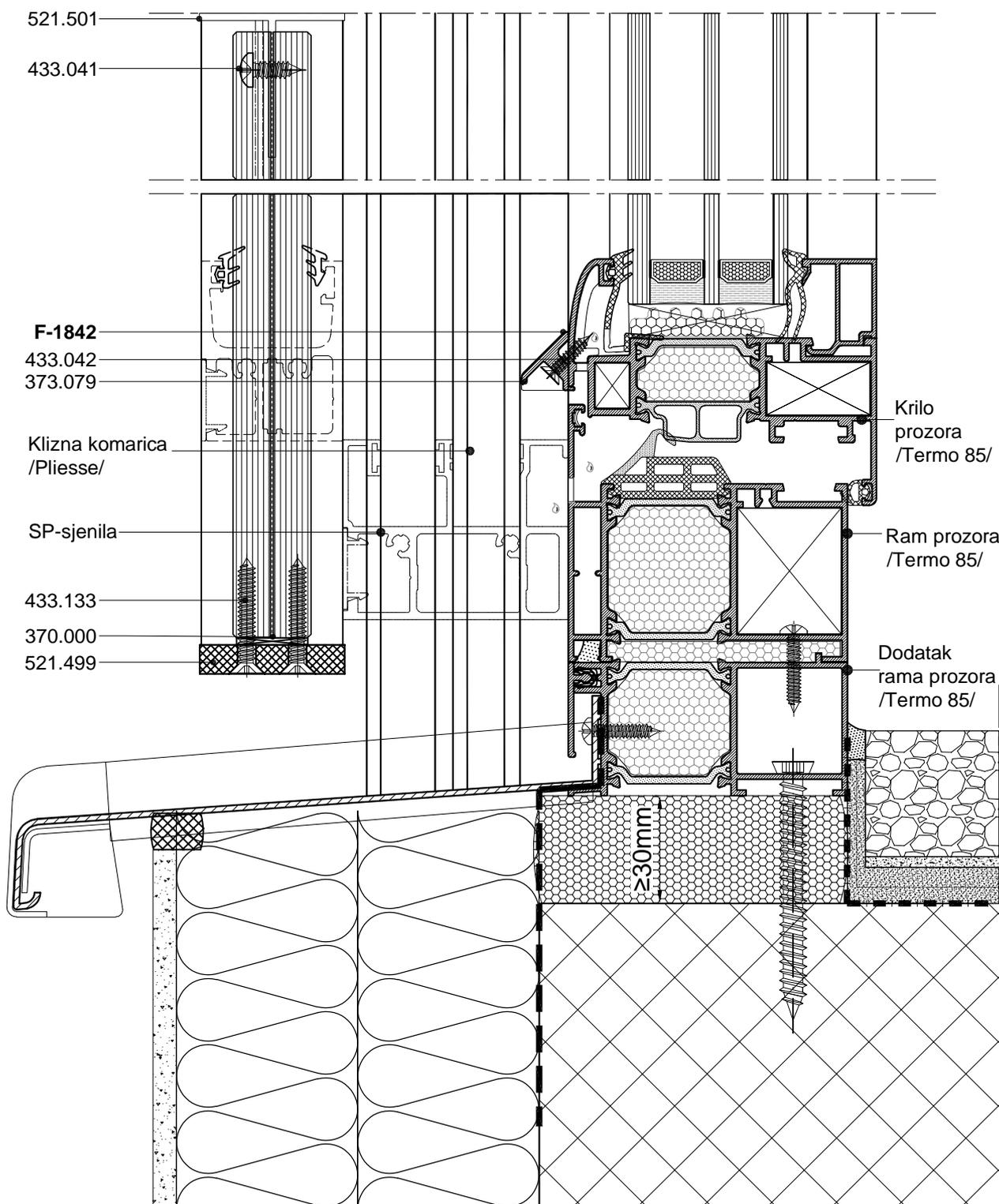
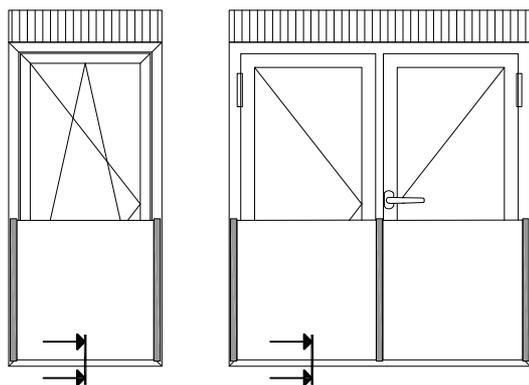
TVG polukaljeno staklo-unutarnje  
TVG semi toughened glass-inside

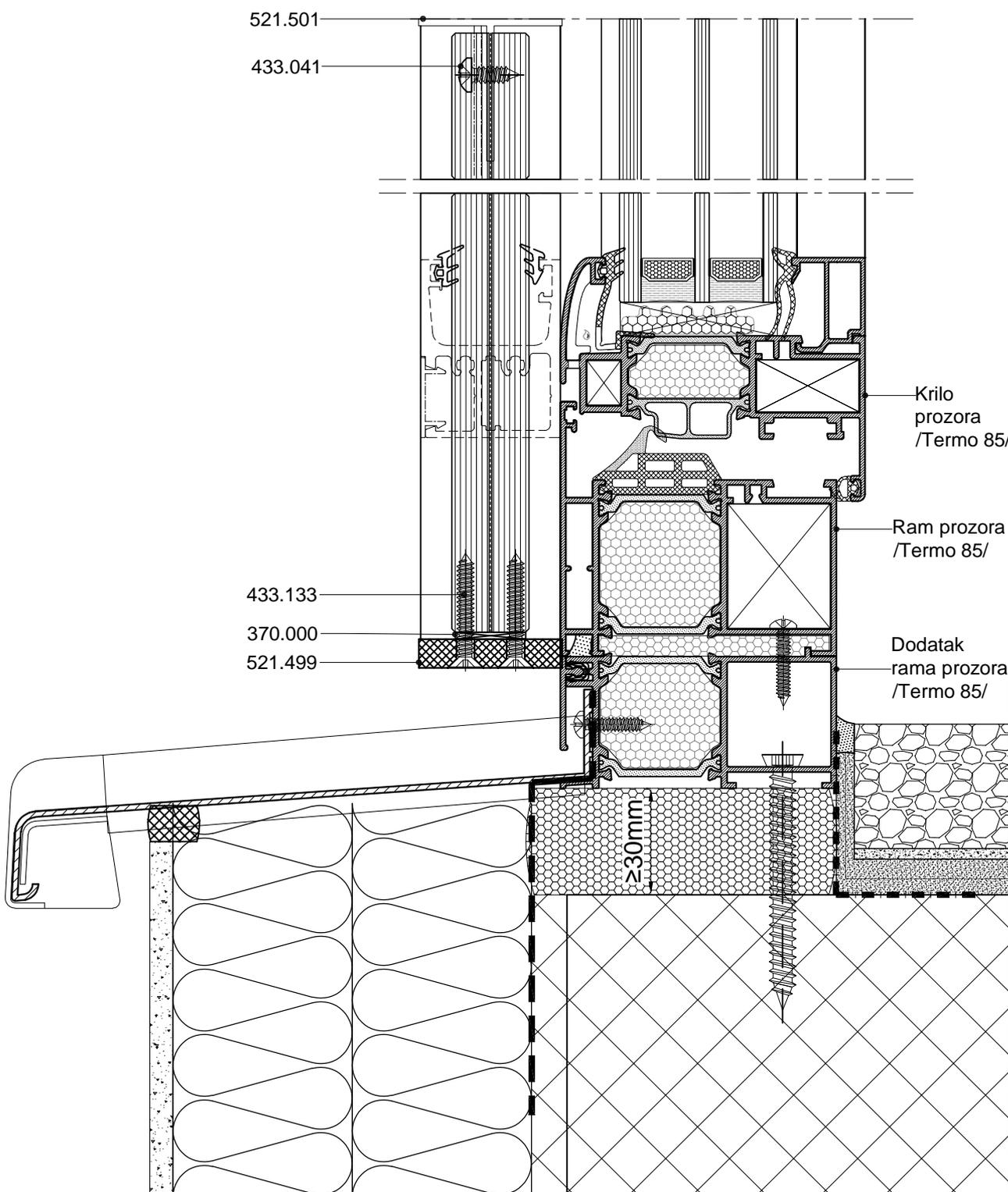
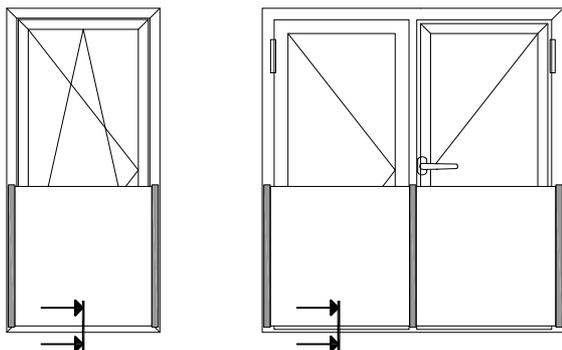
ESG kaljeno staklo-vanjsko  
ESG toughened glass -outside

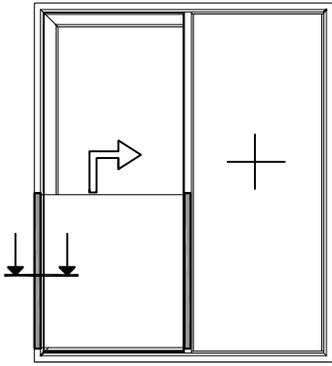


TVG polukaljeno staklo-unutarnje  
TVG semi toughened glass-inside  
ESG kaljeno staklo-vanjsko  
ESG toughened glass -outside



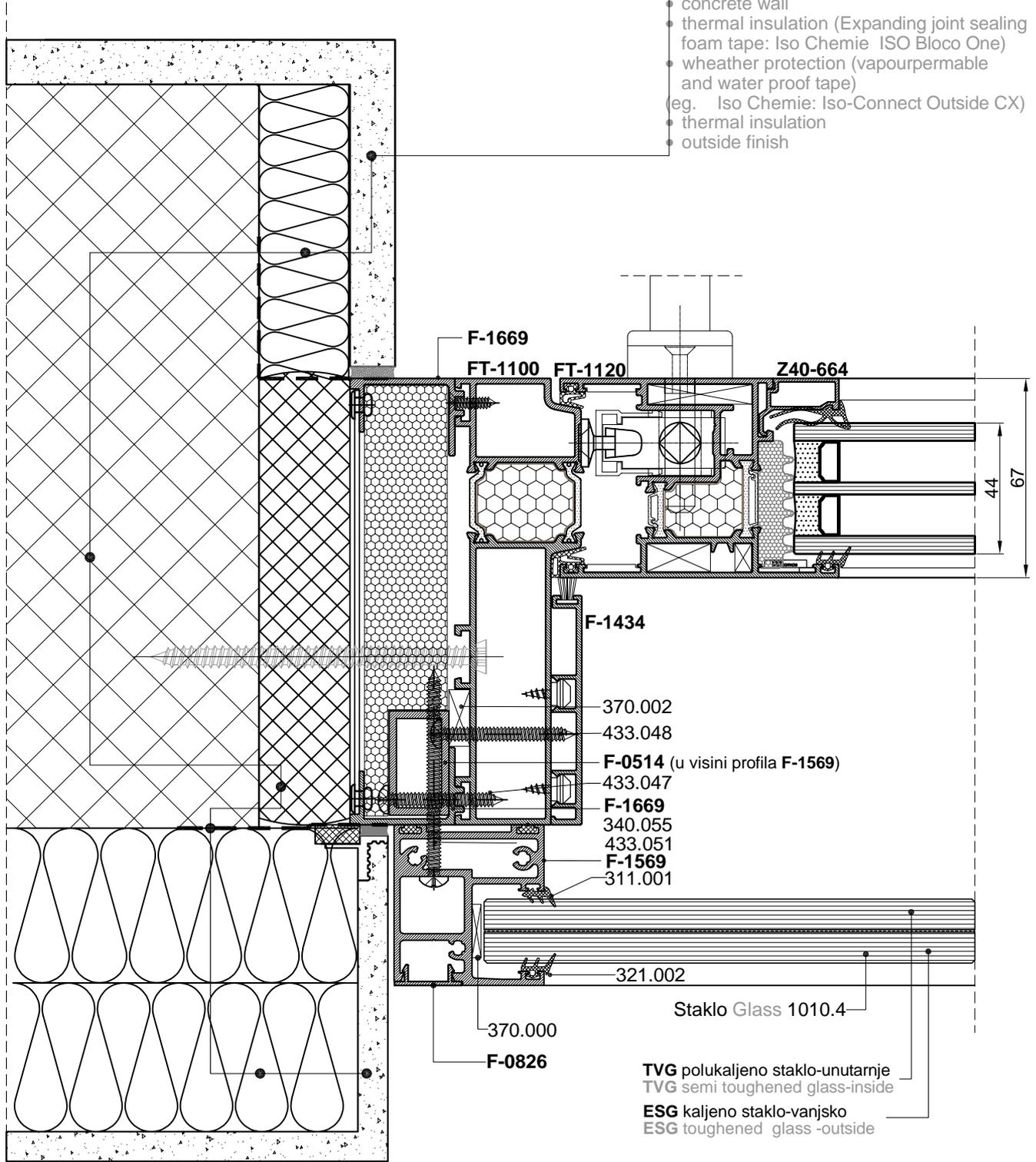




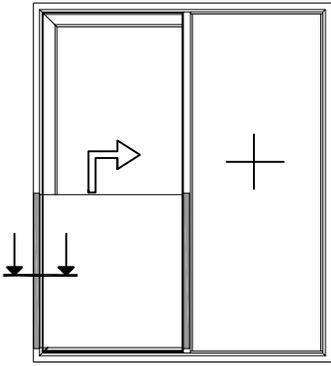


- unutarnja obrada i završni izgled
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- betonski zid
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled

- inside finish
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- concrete wall
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- wheather protection (vapourpermeable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- thermal insulation
- outside finish

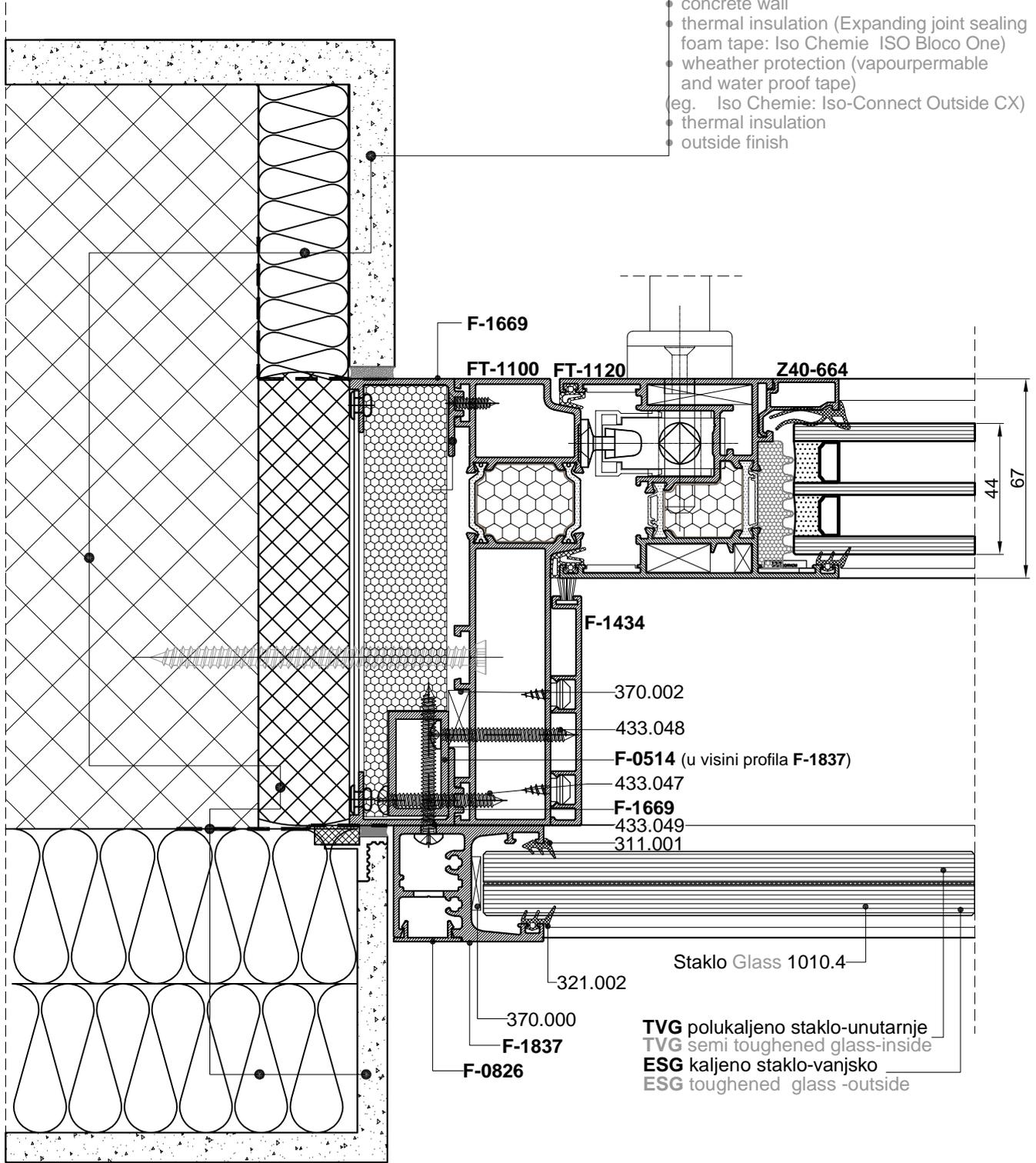


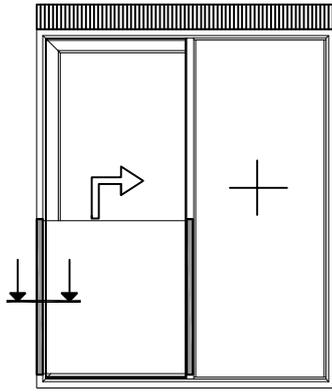
TVG polukaljeno staklo-unutarnje  
TVG semi toughened glass-inside  
ESG kaljeno staklo-vanjsko  
ESG toughened glass -outside



- unutarnja obrada i završni izgled
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- betonski zid
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled

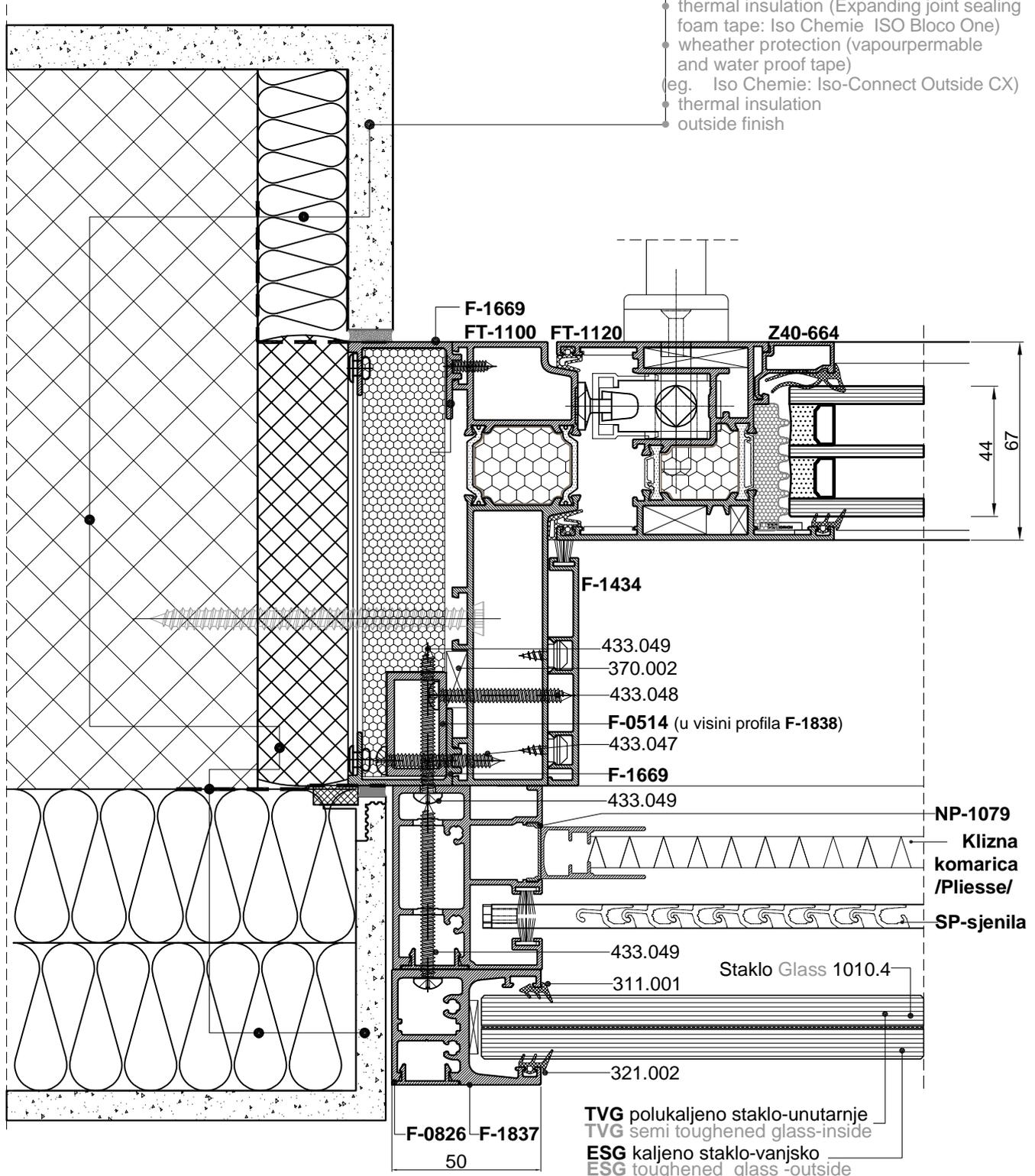
- inside finish
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- concrete wall
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- wheather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- thermal insulation
- outside finish

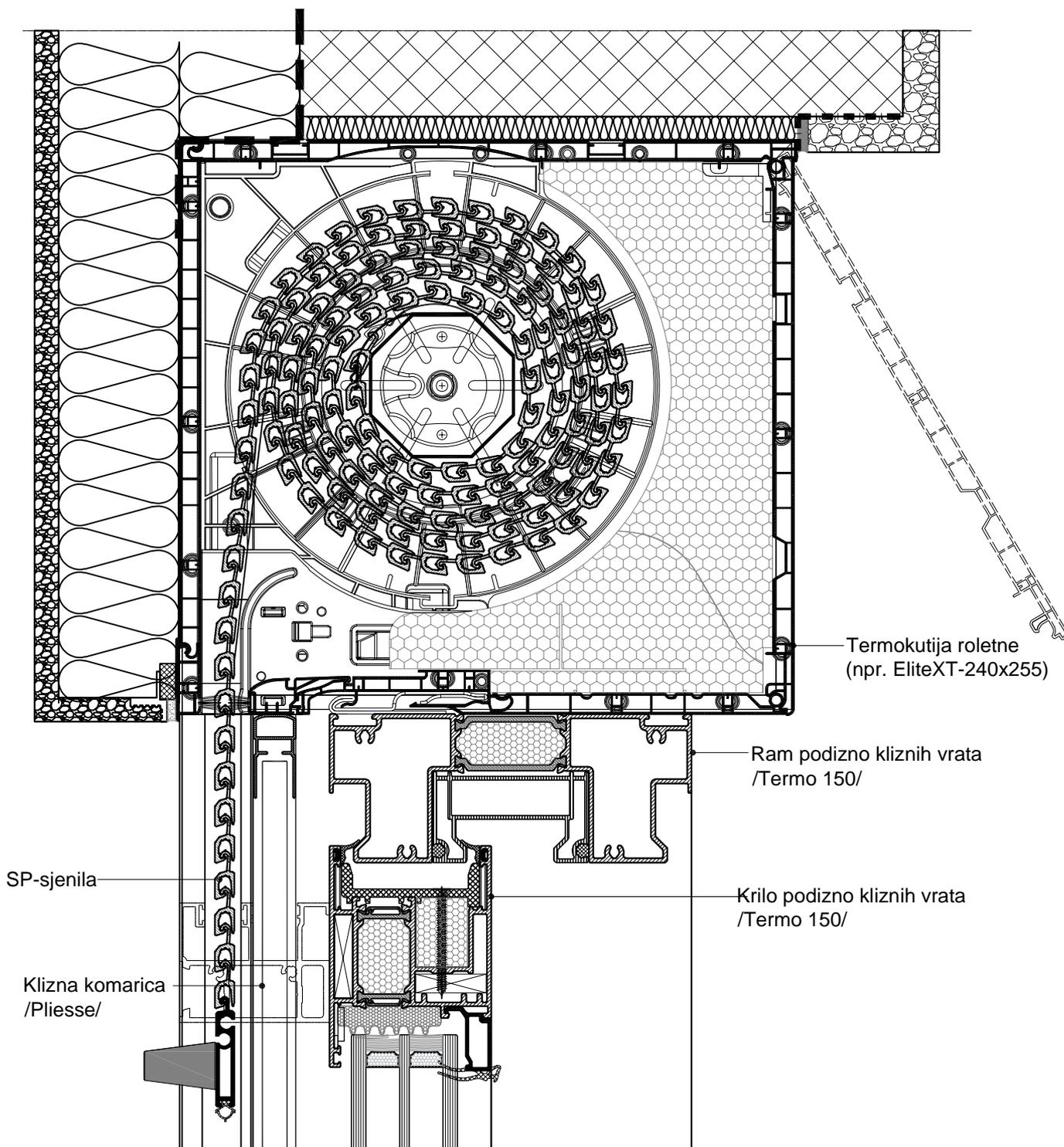
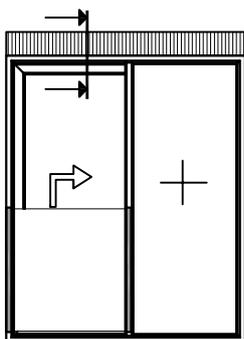


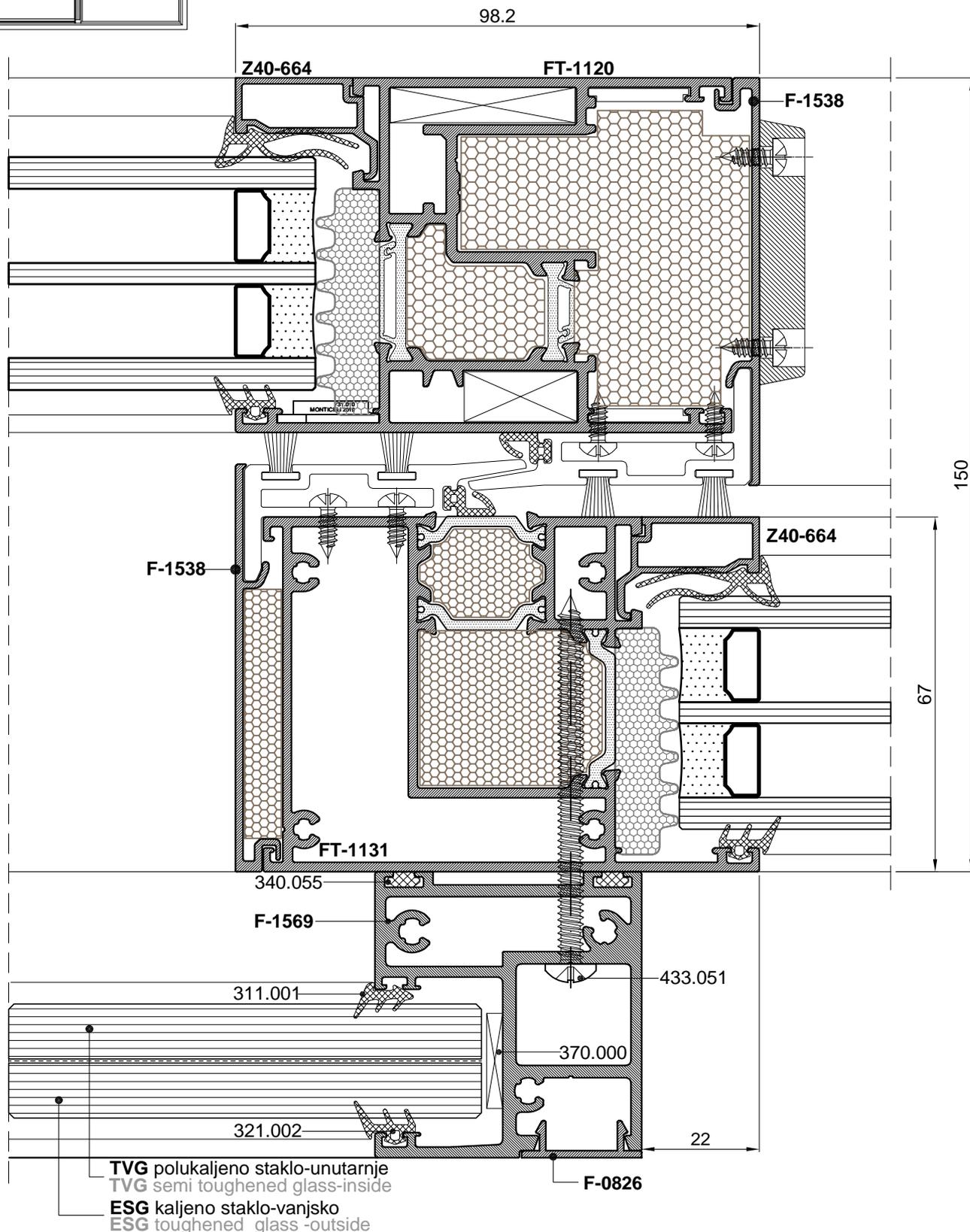
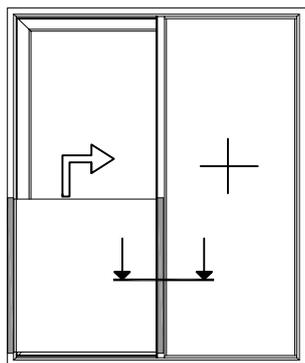


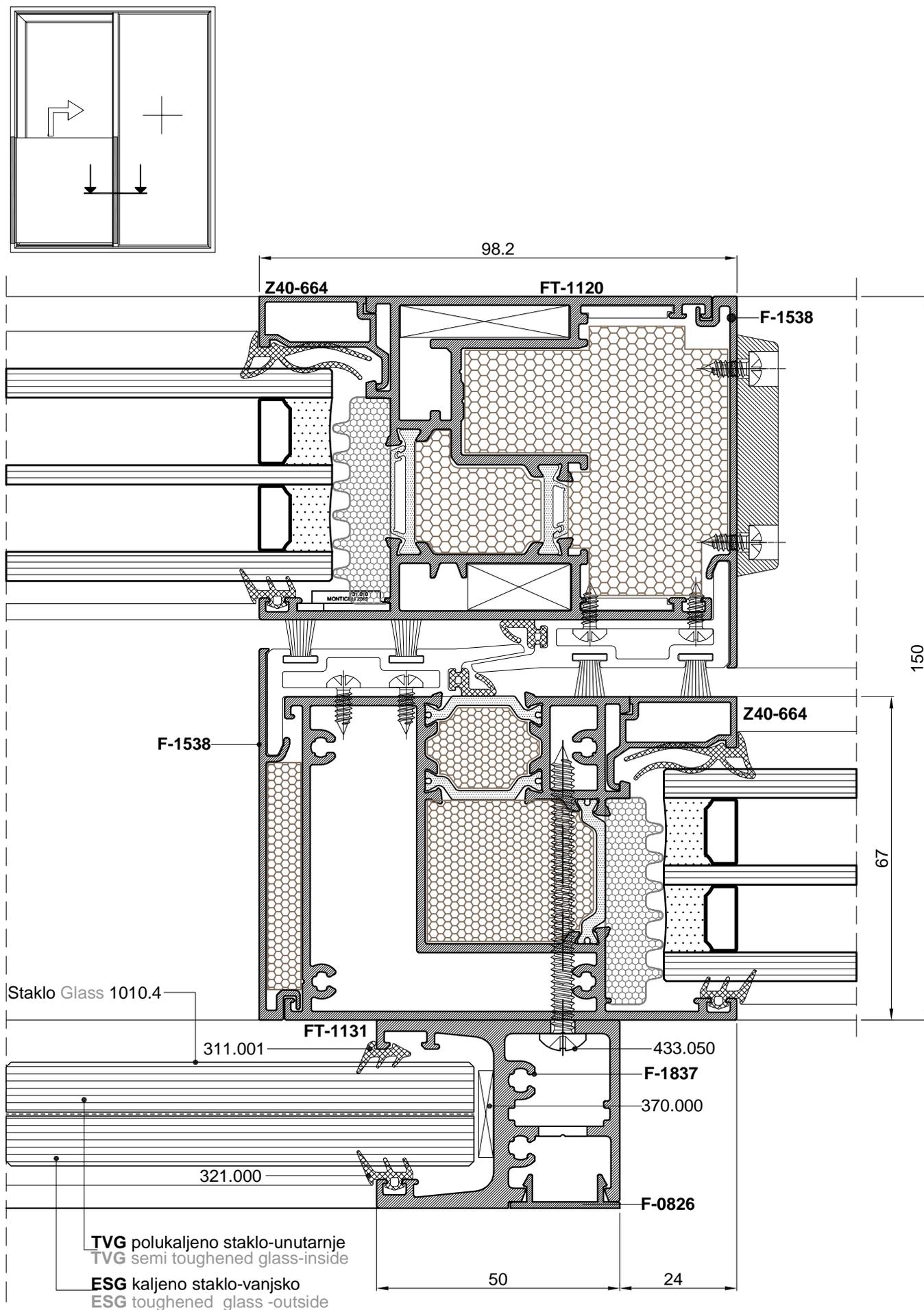
- unutarnja obrada i završni izgled
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- betonski zid
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled

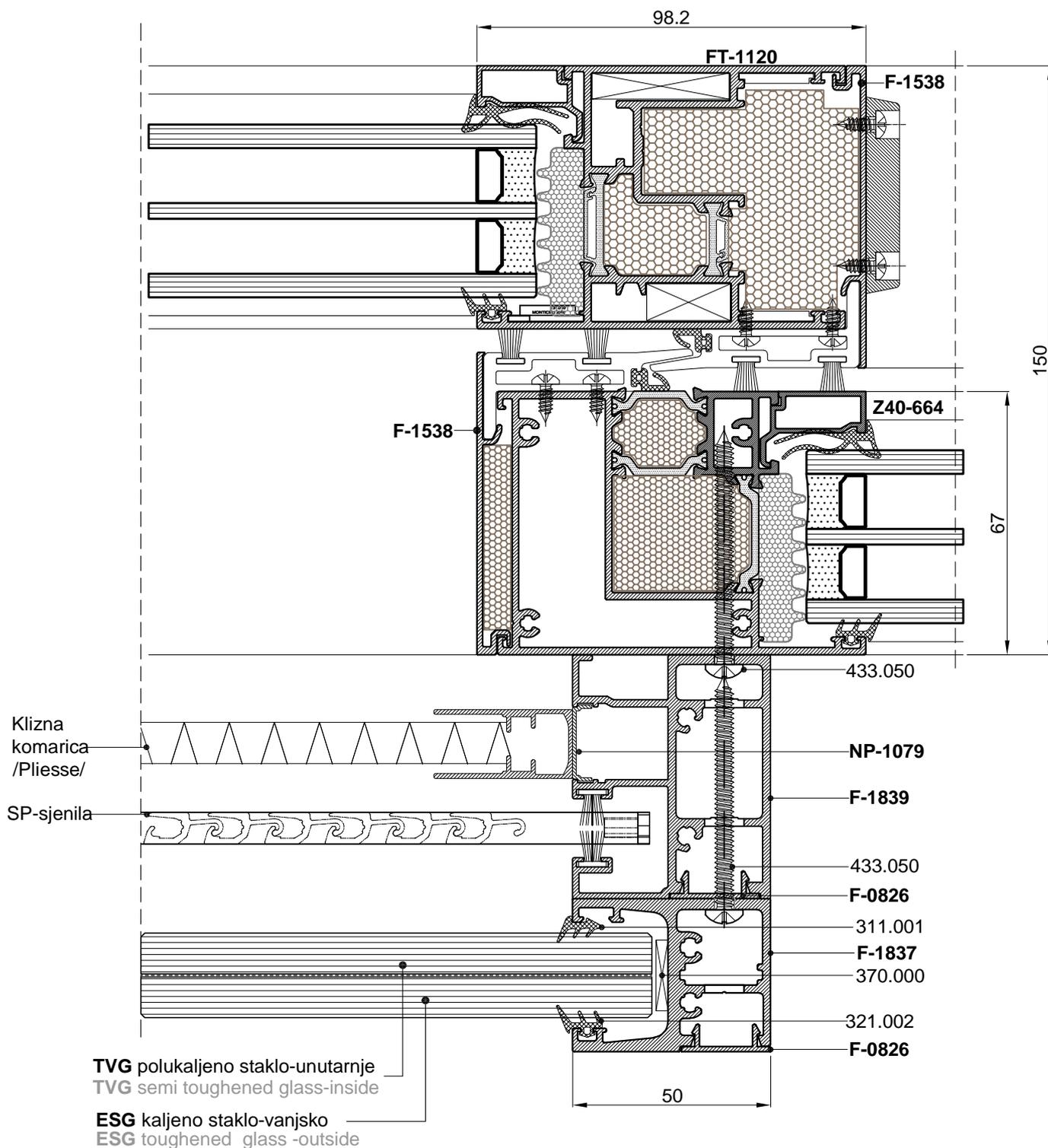
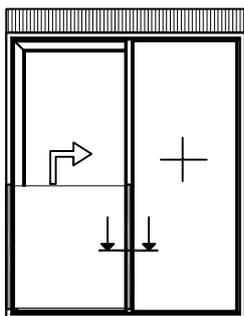
- inside finish
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- concrete wall
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- weather protection (vapourpermeable and water proof tape)
- thermal insulation
- outside finish

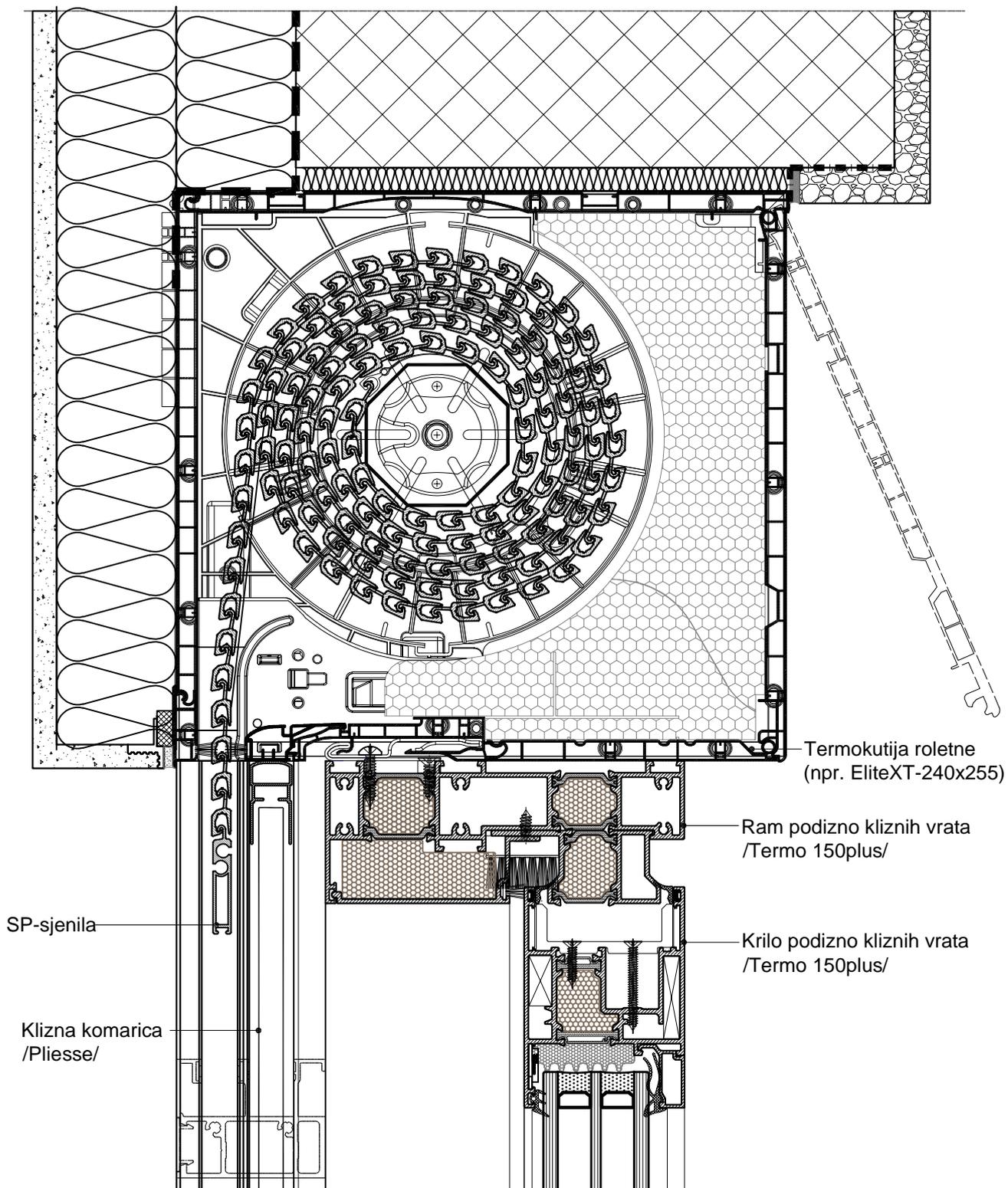
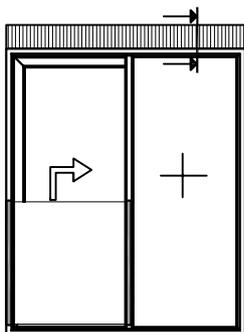


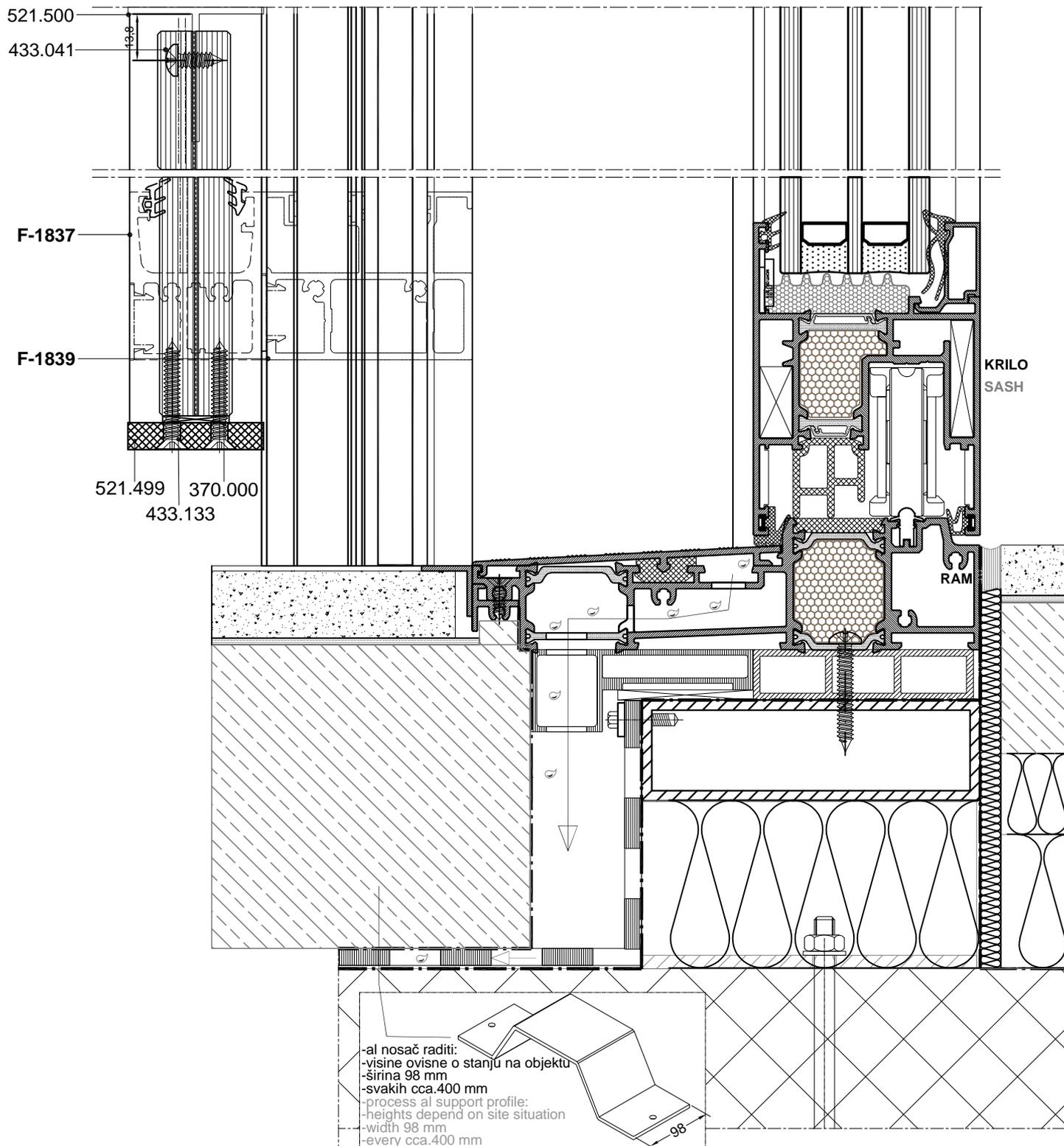
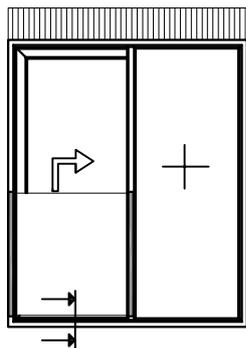


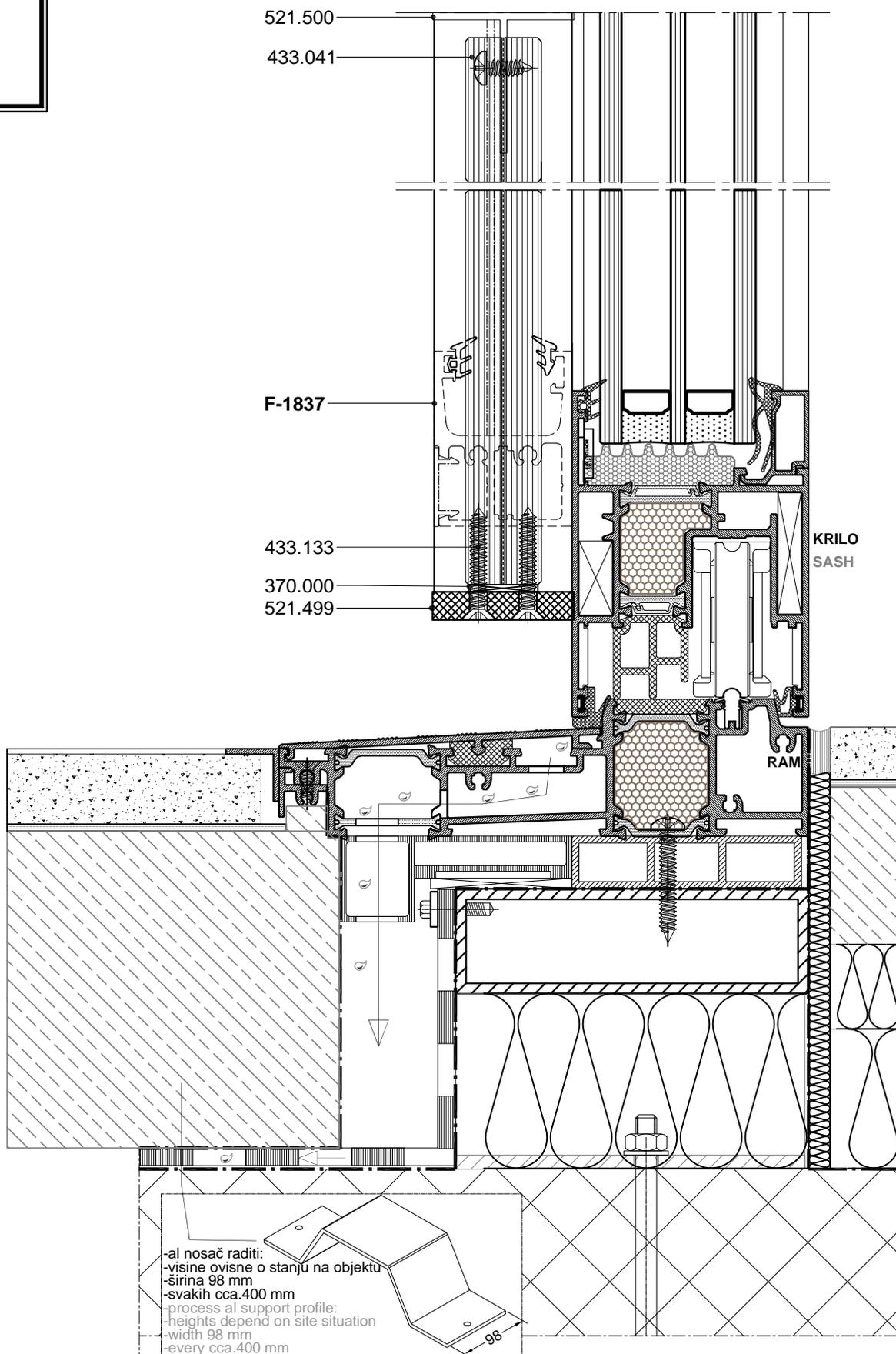
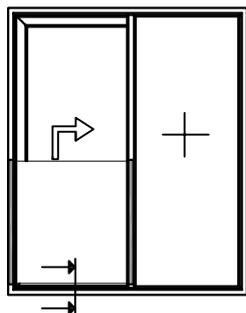


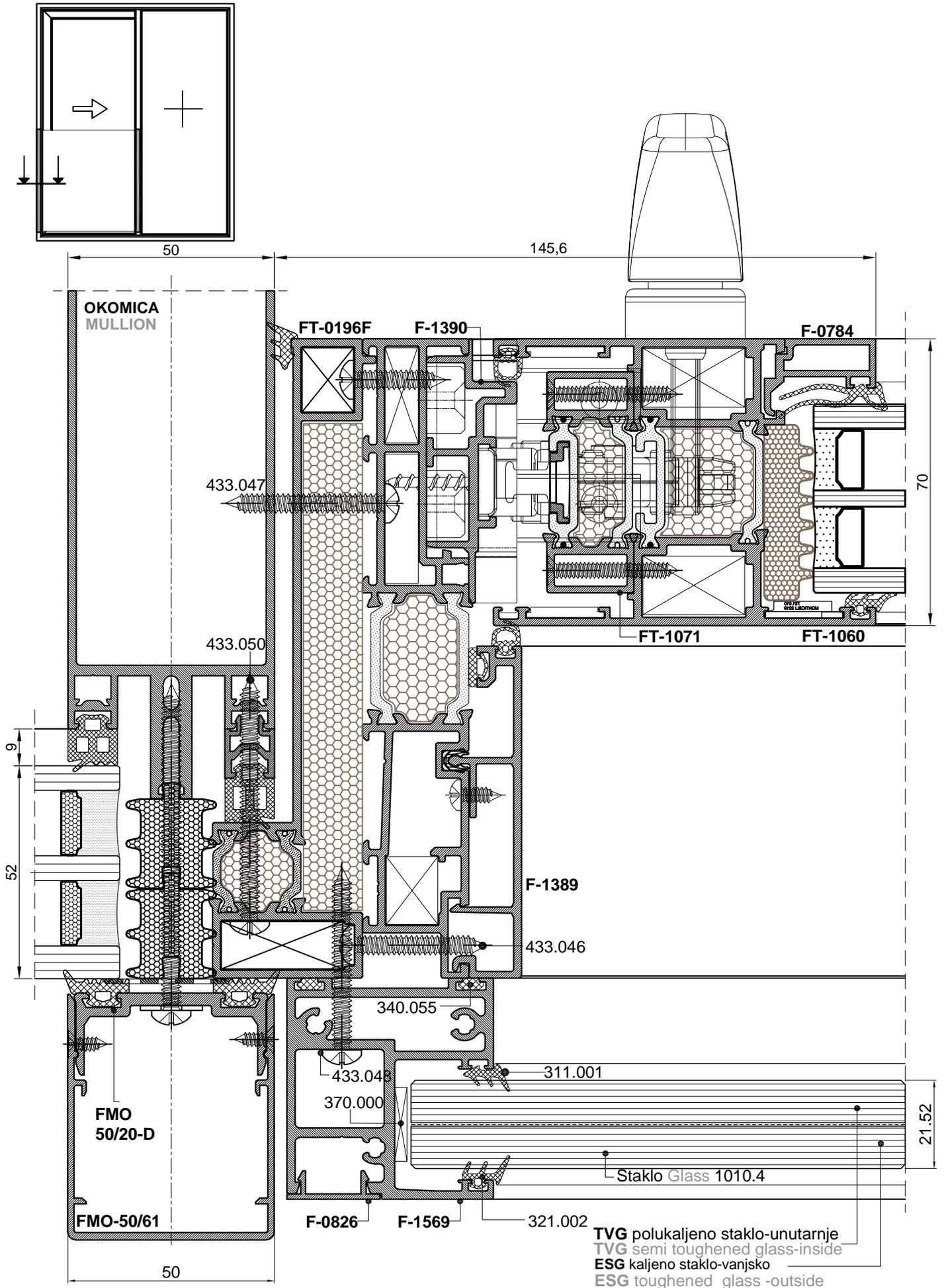


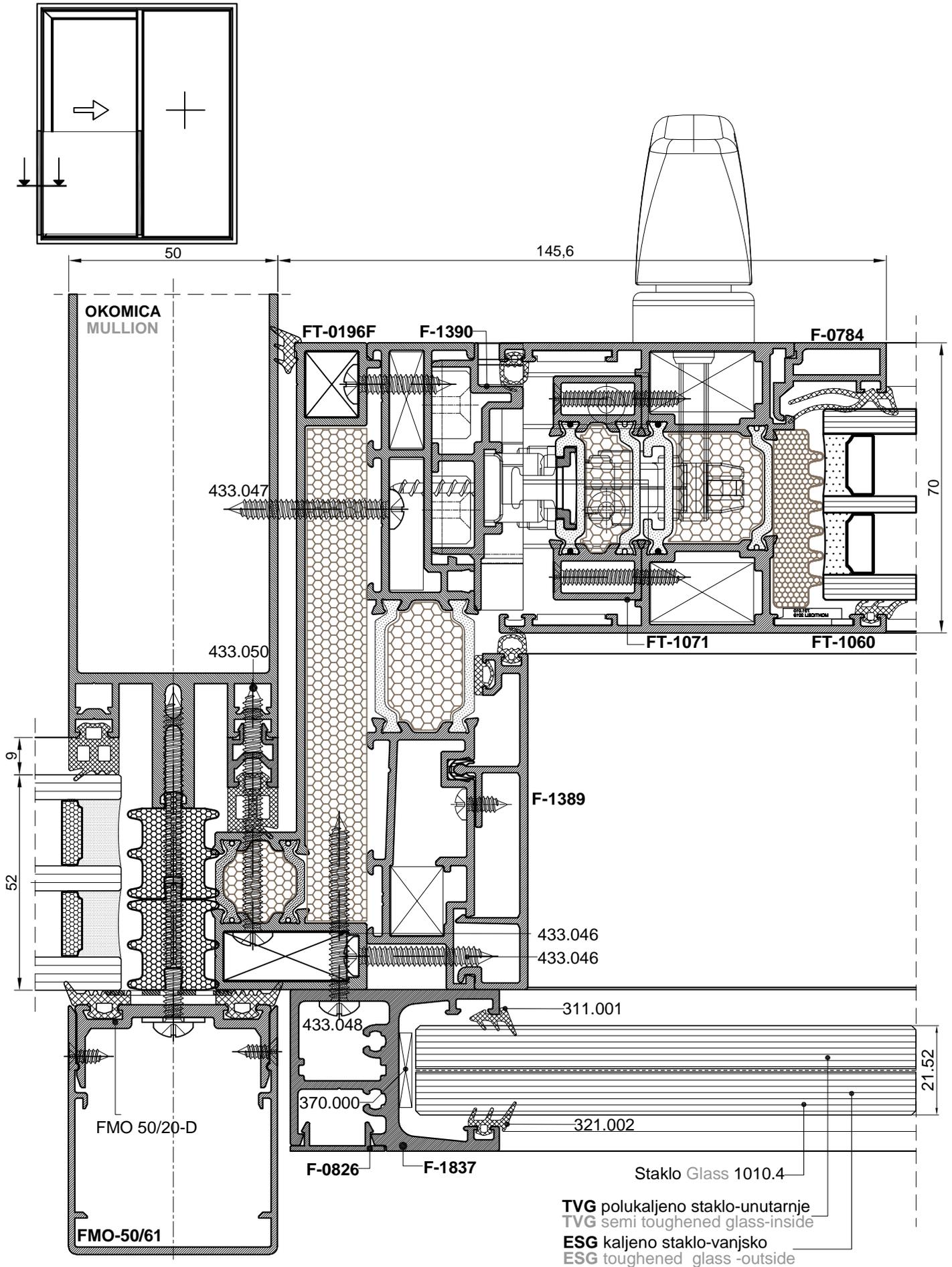


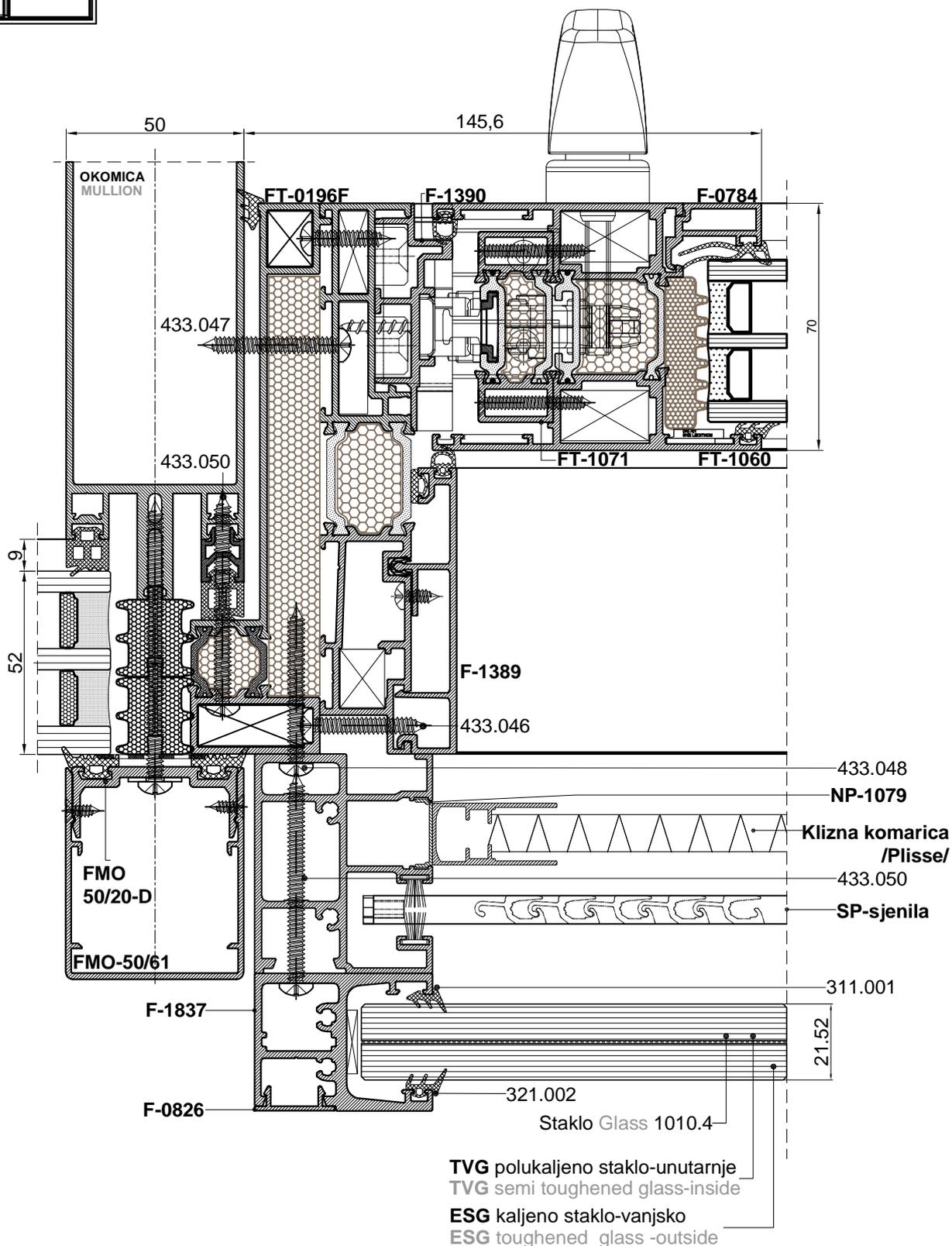
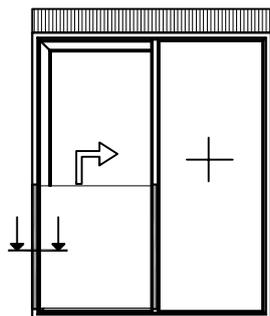


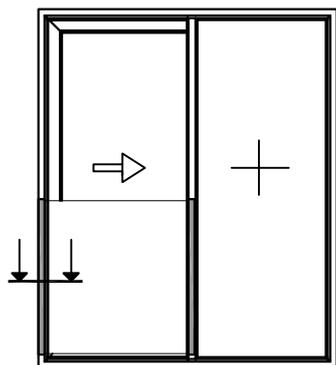






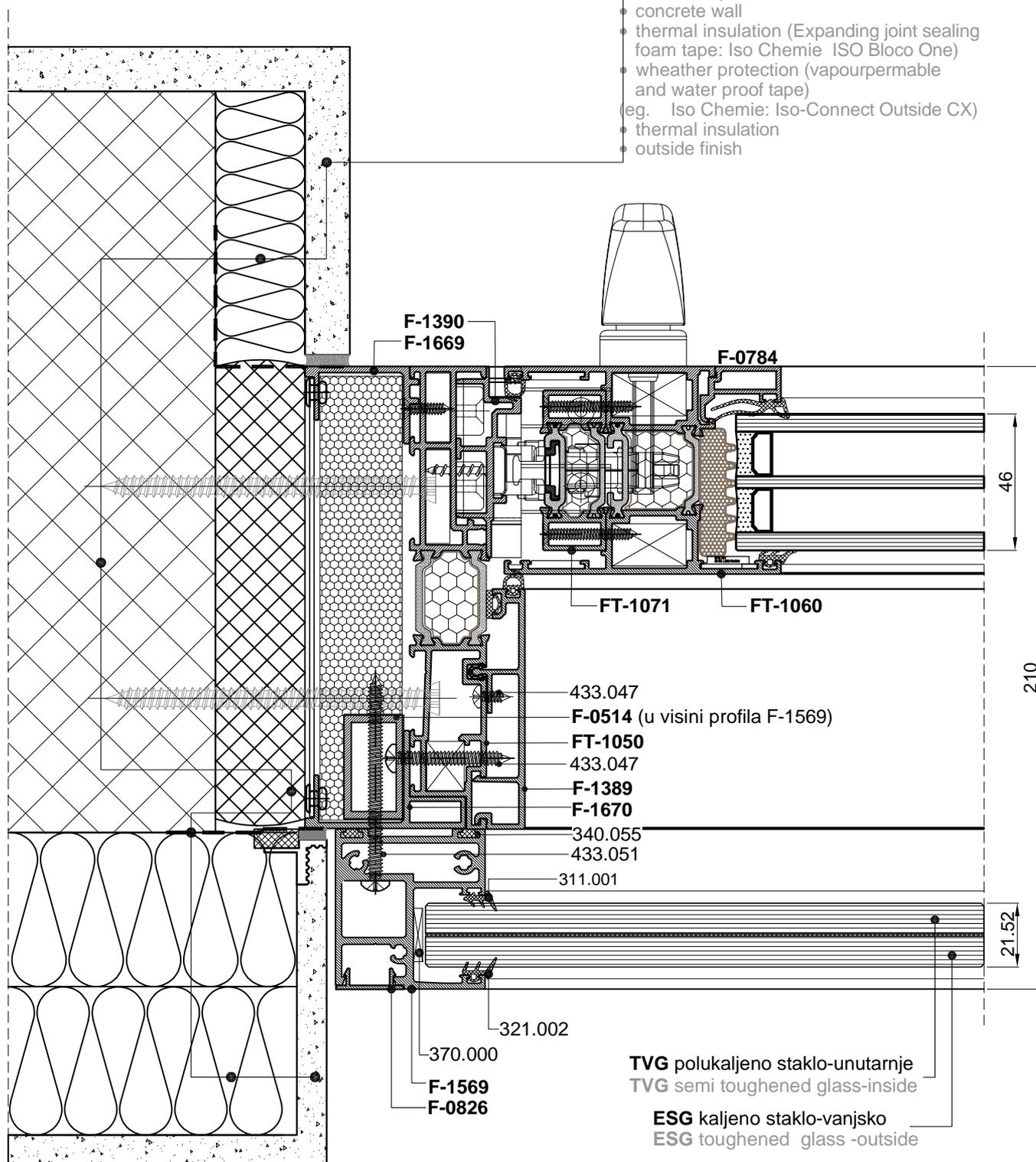




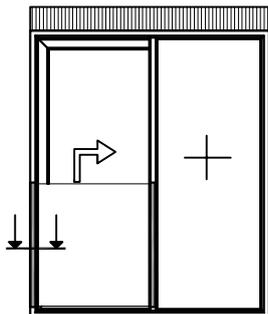


- unutarnja obrada i završni izgled
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- betonski zid
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled

- inside finish
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- concrete wall
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- weather protection (vapourpermeable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- thermal insulation
- outside finish

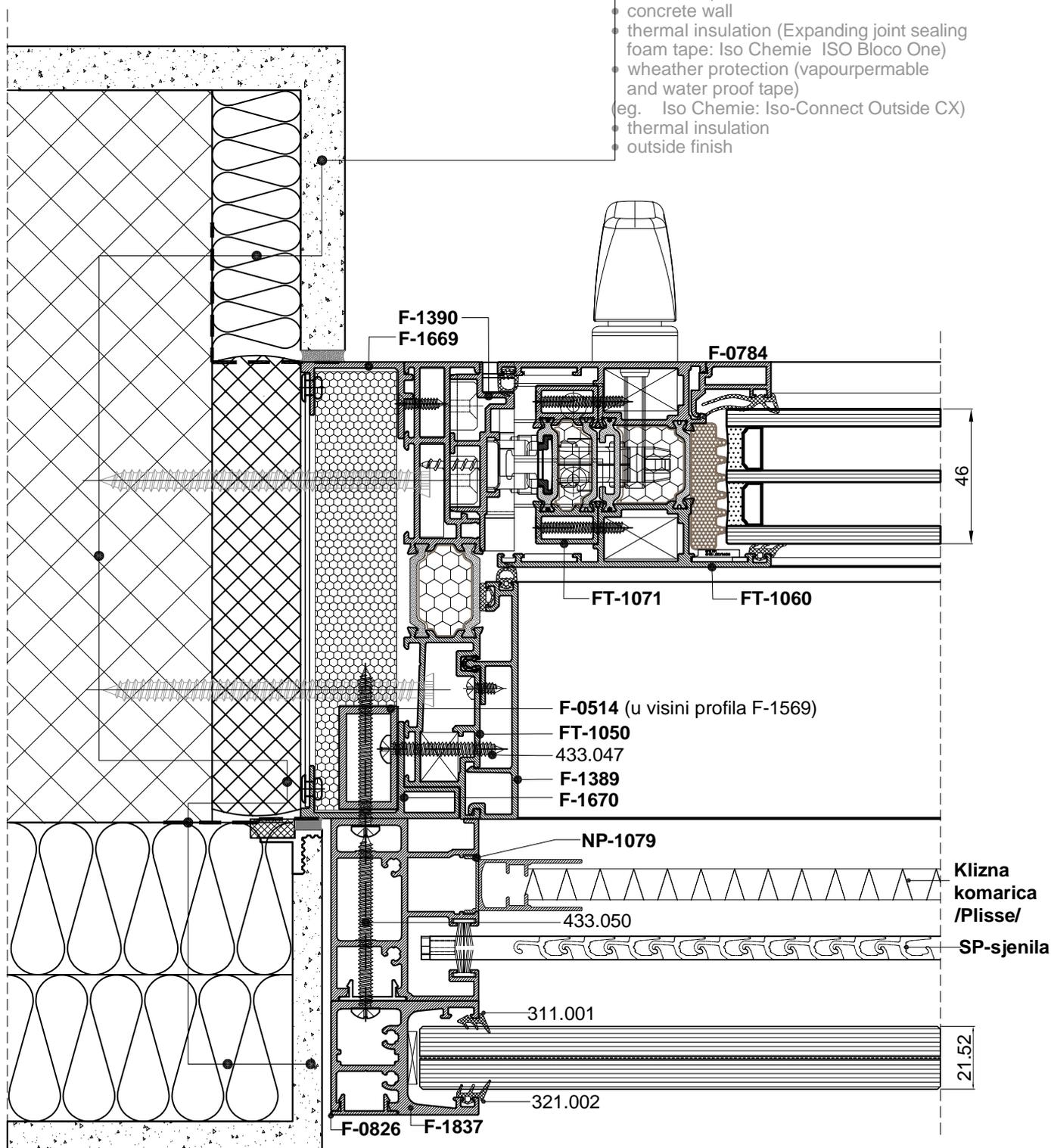


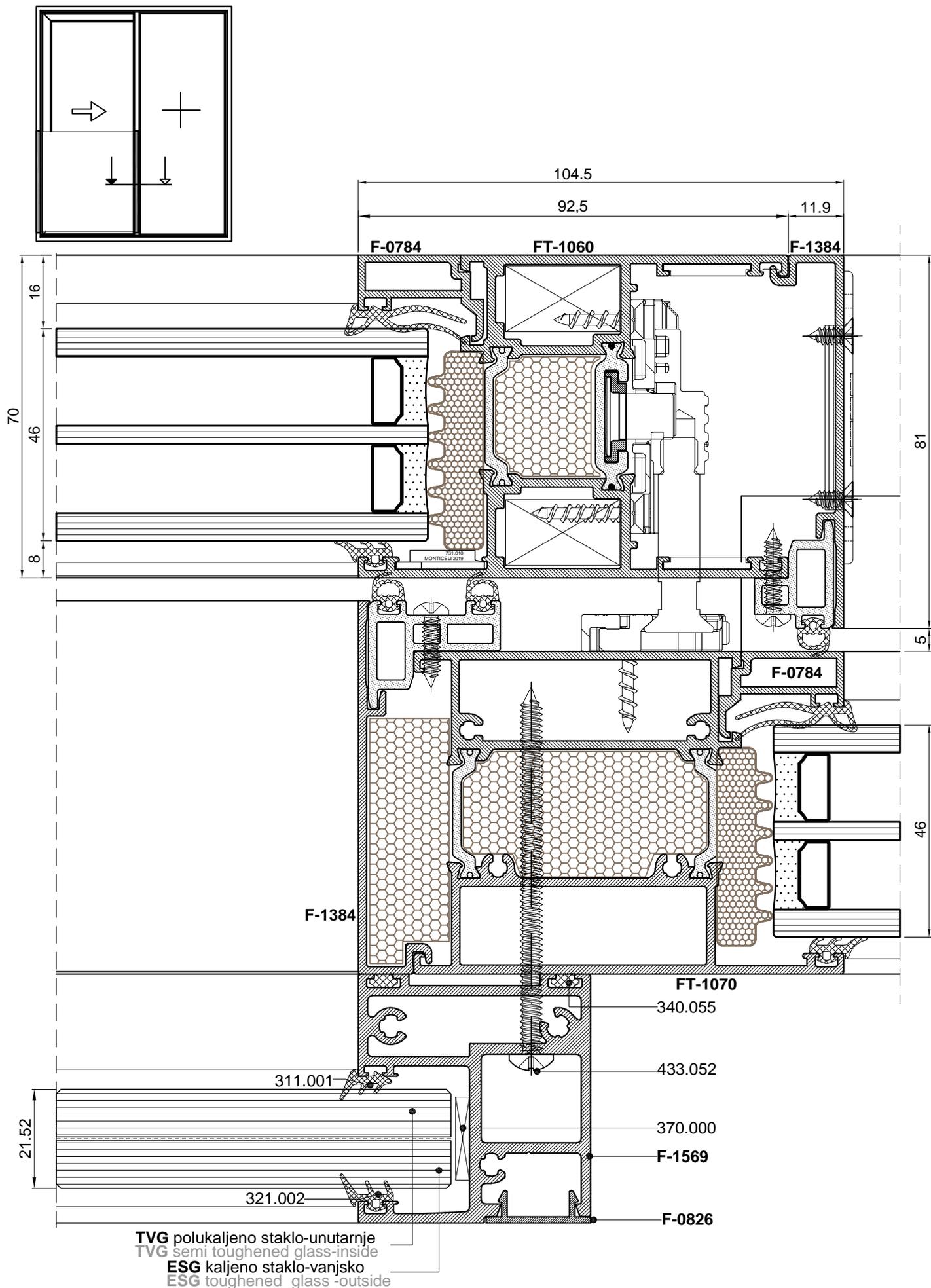


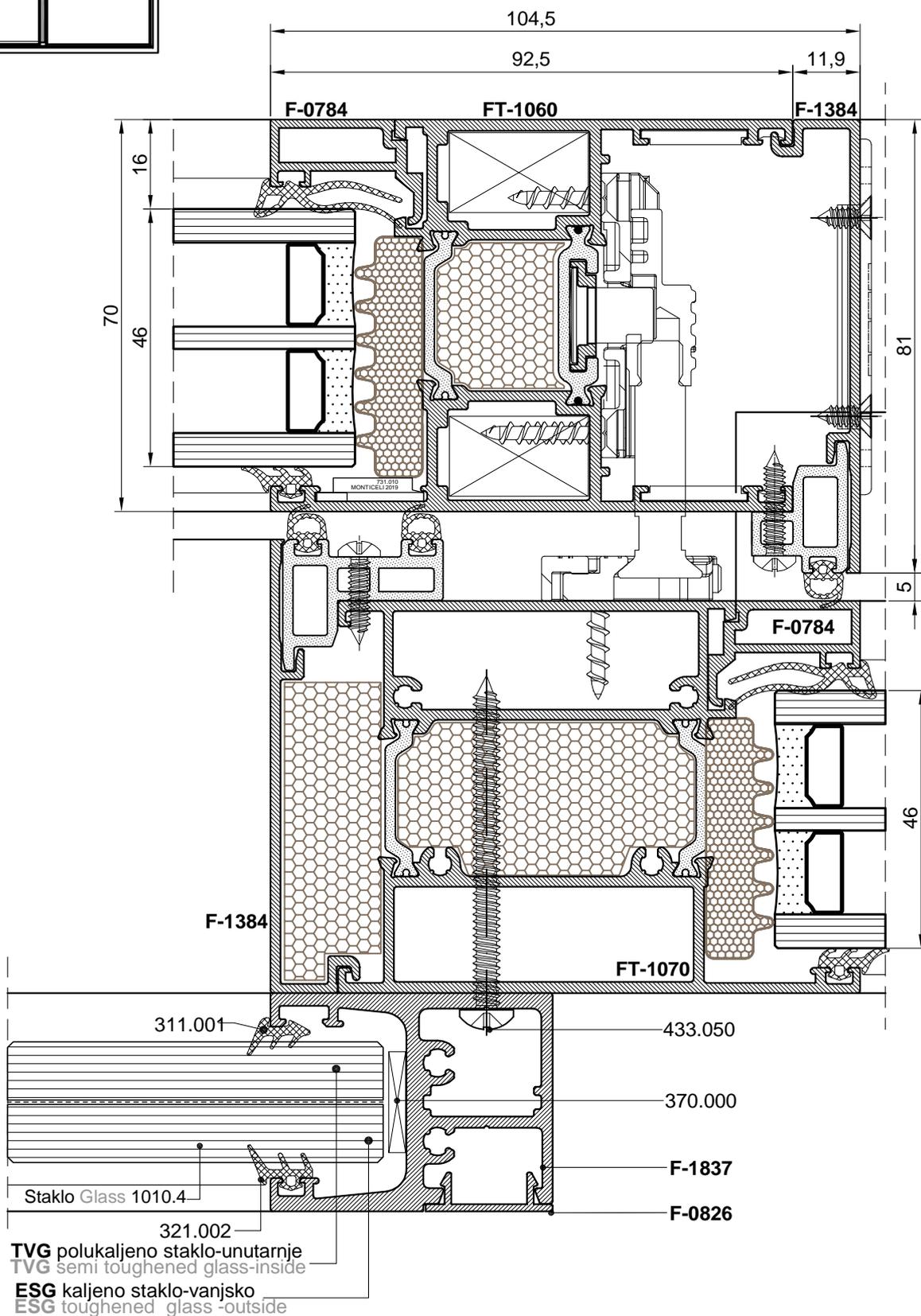
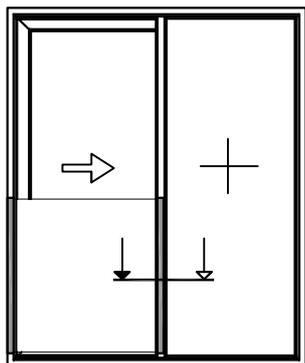


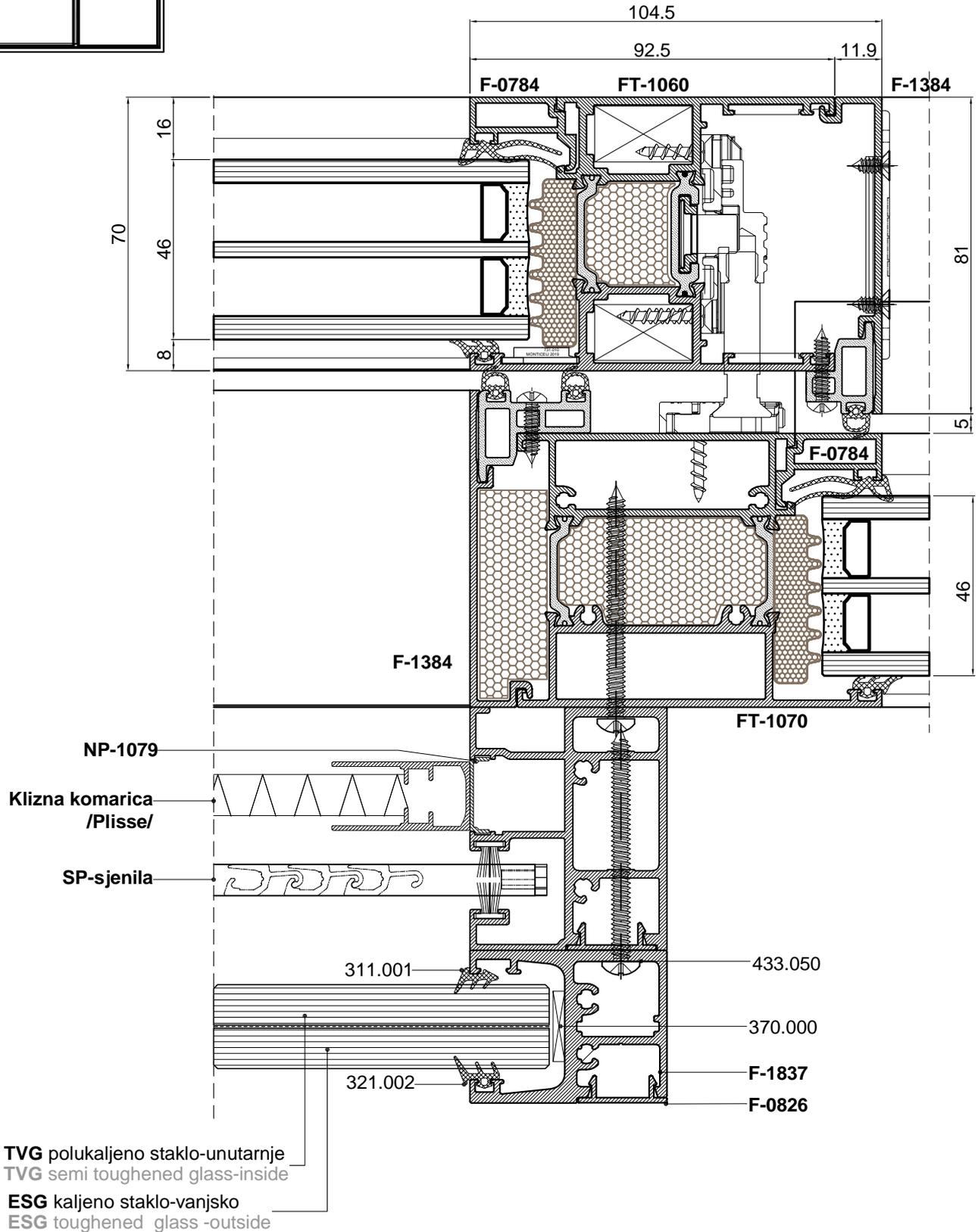
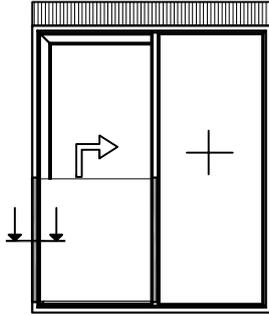
- unutarnja obrada i završni izgled
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- betonski zid
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- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
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- thermal insulation
- outside finish









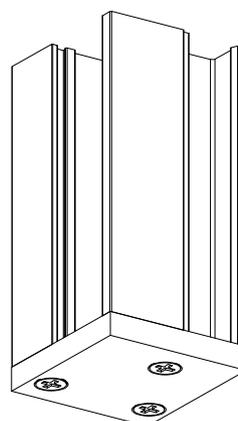
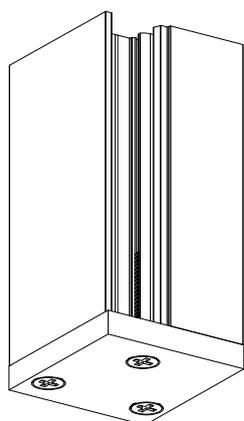
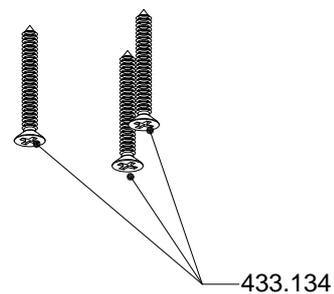
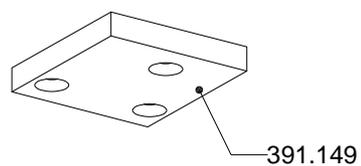
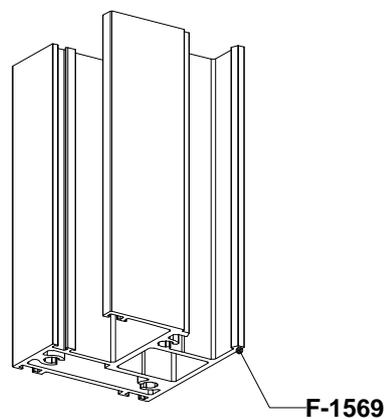
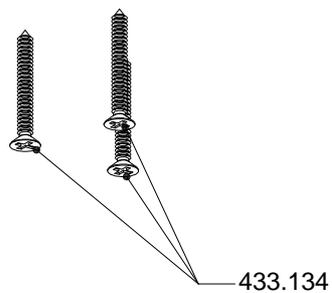
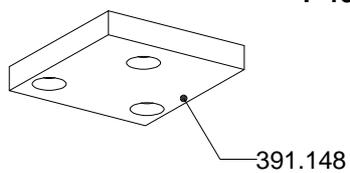
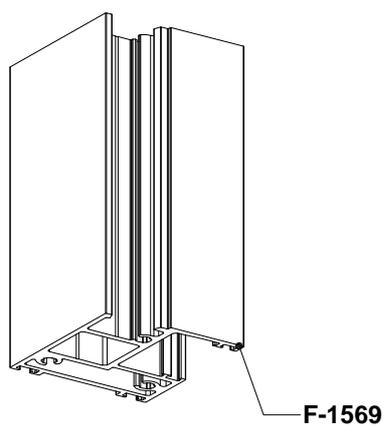


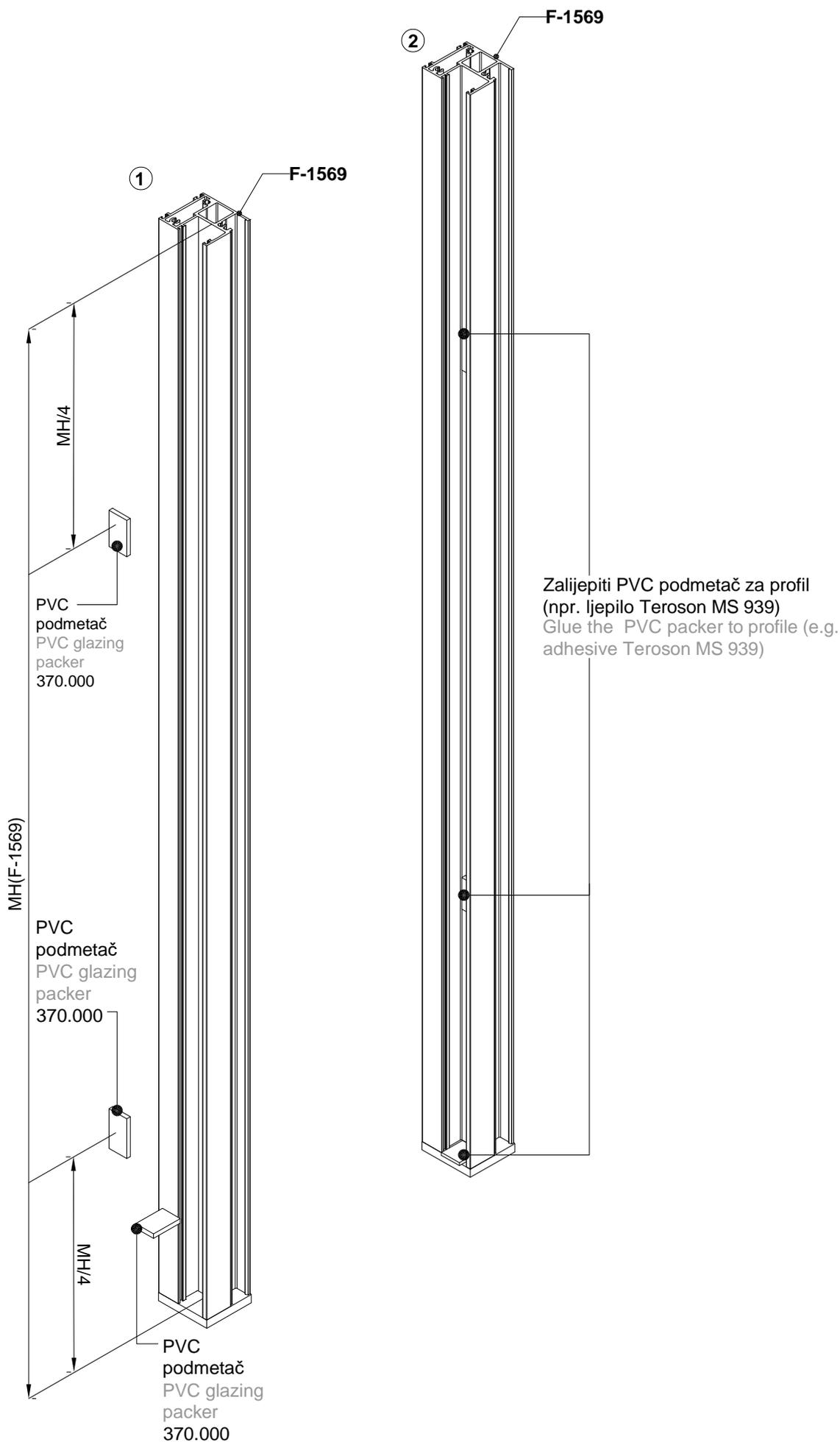
# Obrada i montaža

## Processing and montage



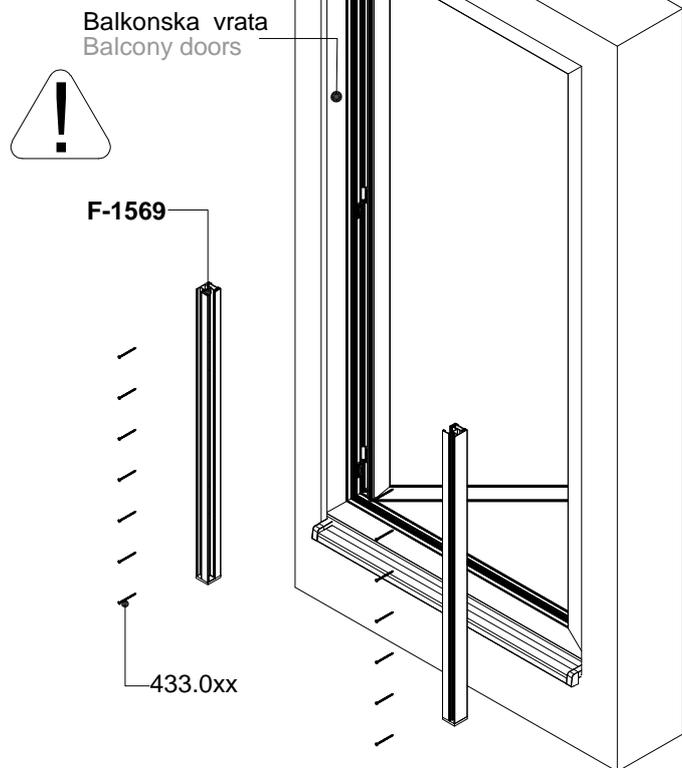






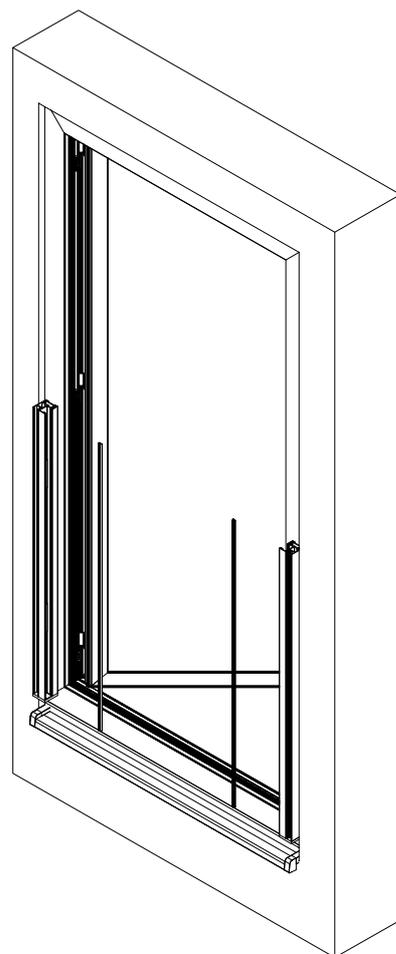
## 1. Montaža F-1569

1. Instalation of  
F-1569



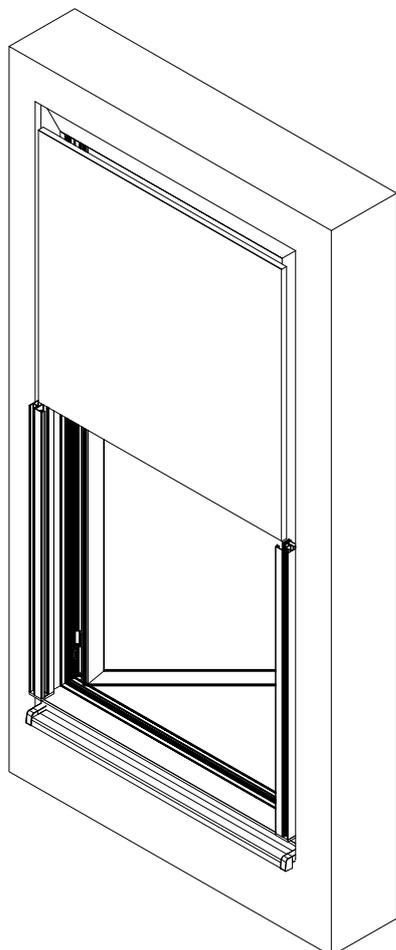
## 2. Postavljanje vanjske brtve

2. Positioning  
of exterior  
gasket



## 3. Umetanje stakla

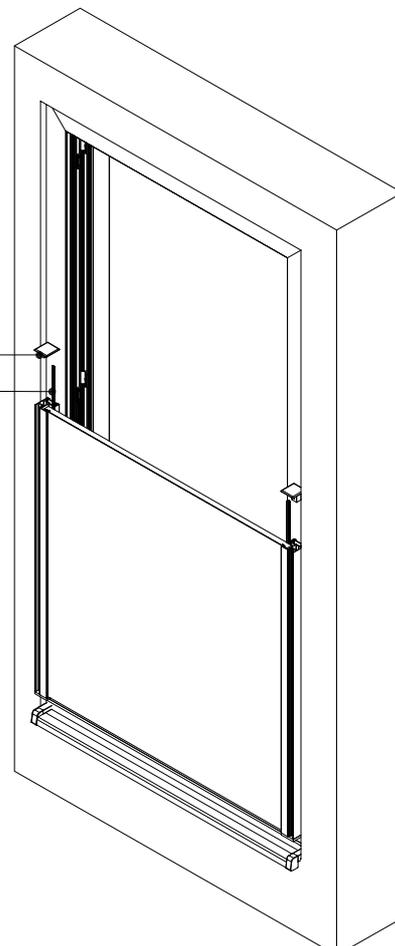
3. Inserting the  
glass



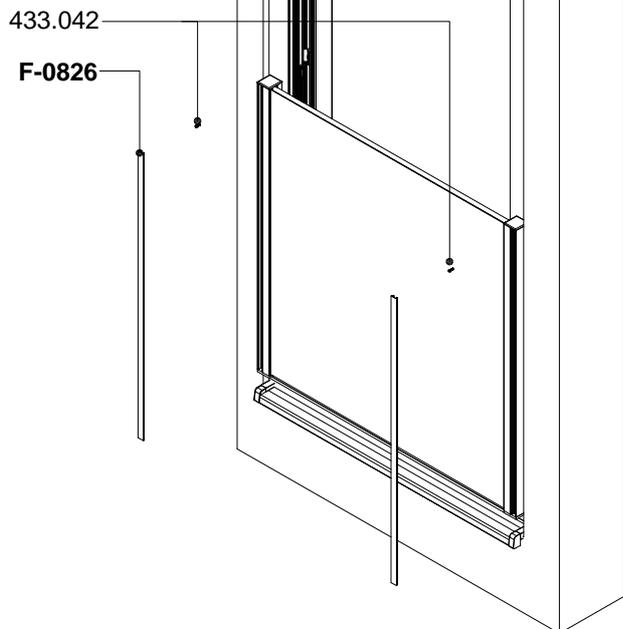
## 4. Postavljanje unutarnje brtve i gornjeg čepa

4. Positioning  
of interior  
gasket and top  
cap

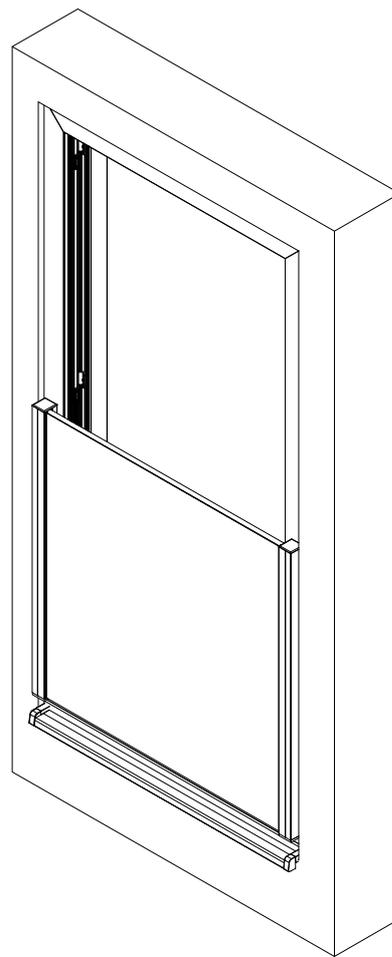
373.054  
Unutarnja brtva  
Interior gasket



**5. Fiksiranje gornjeg čepa vijkom i klipsanje F-0826**  
5. Fixing the top cap with a screw and clip F-0826 in.

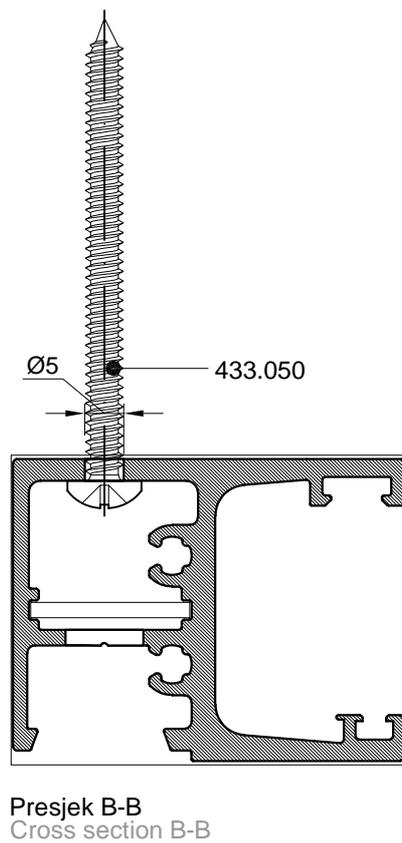
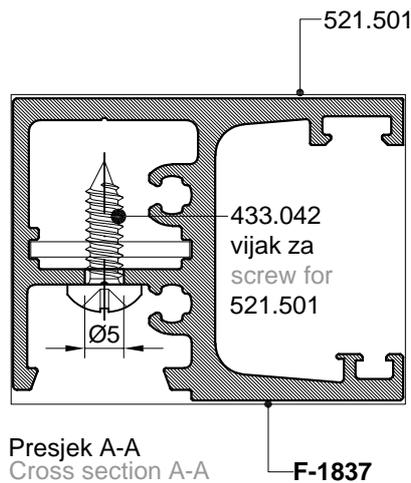
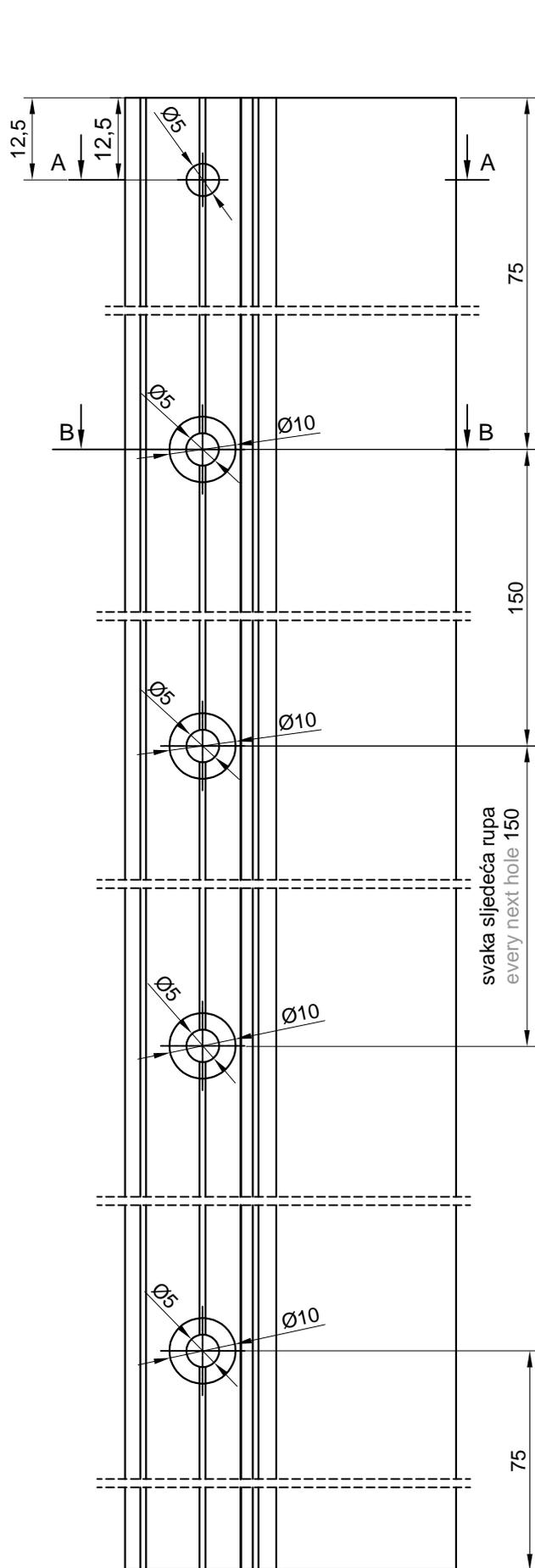


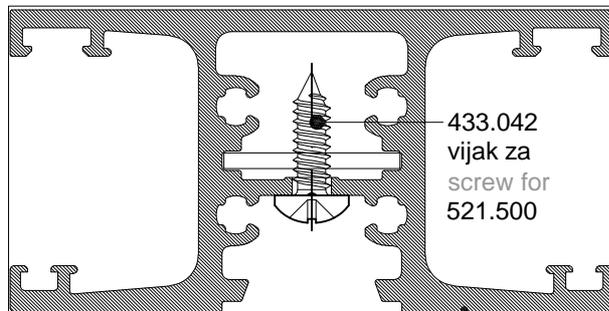
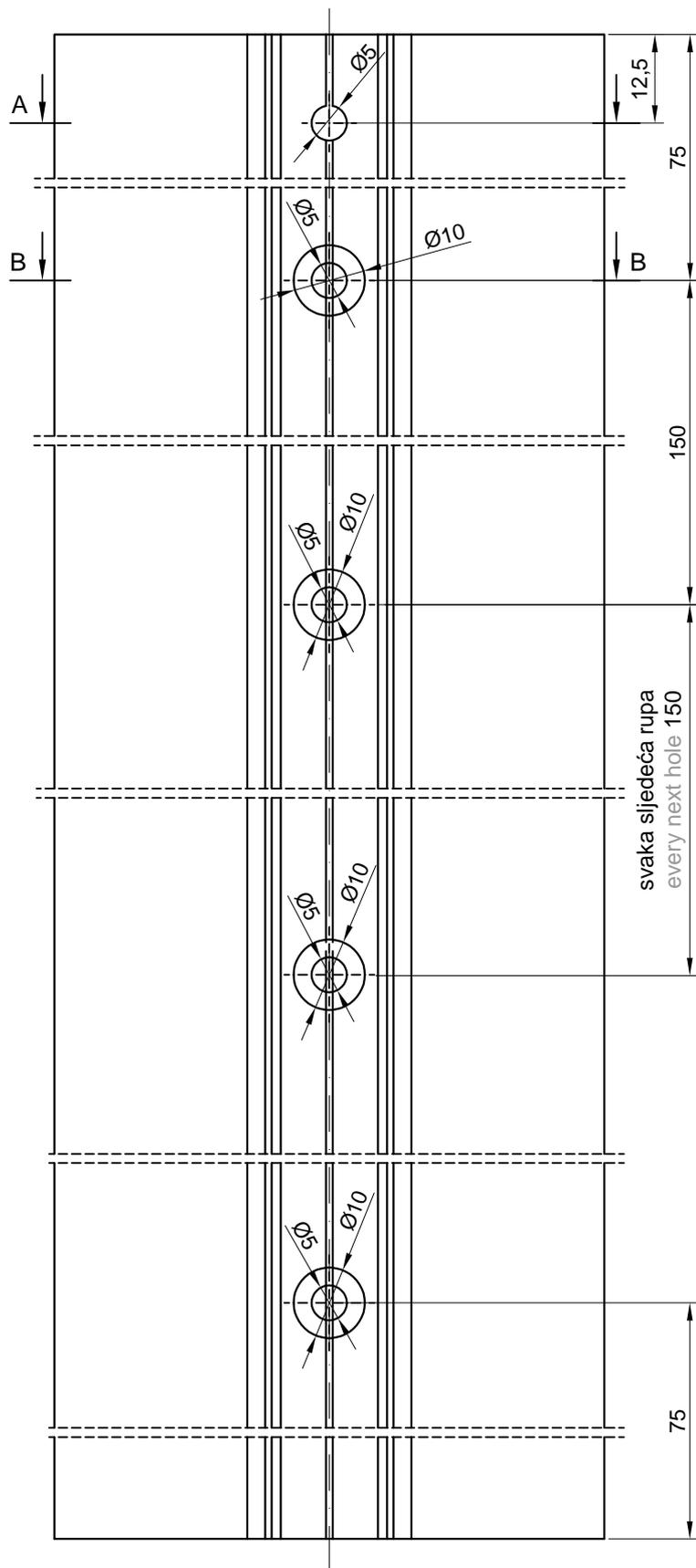
**6. Završni izgled**  
6. Final look



**Prilikom montaže francuskog balkona na već montirani ram obavezno se pridržavati svih pravila sigurnosti na radu te koristiti odgovarajuće alate i sigurnosne mjere.**

**During the instalation of french balcony on already installed frame be sure to follow all safety rules and use the appropriate tools and safety measures.**

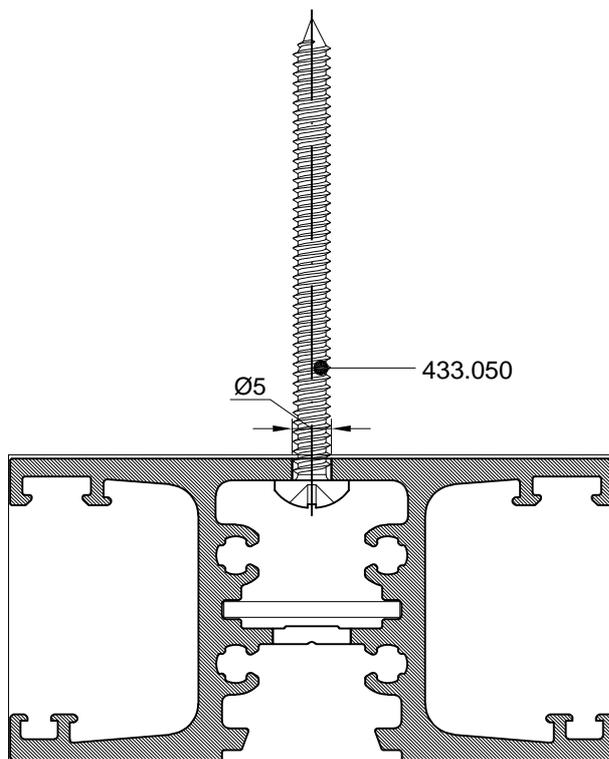




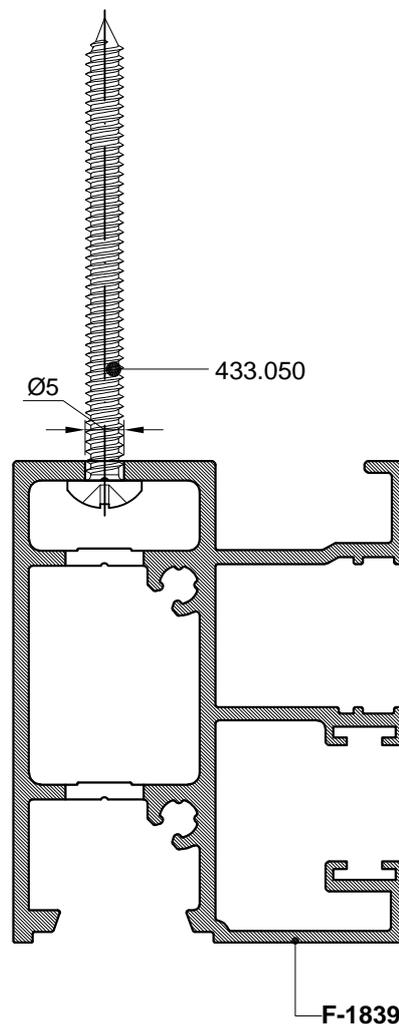
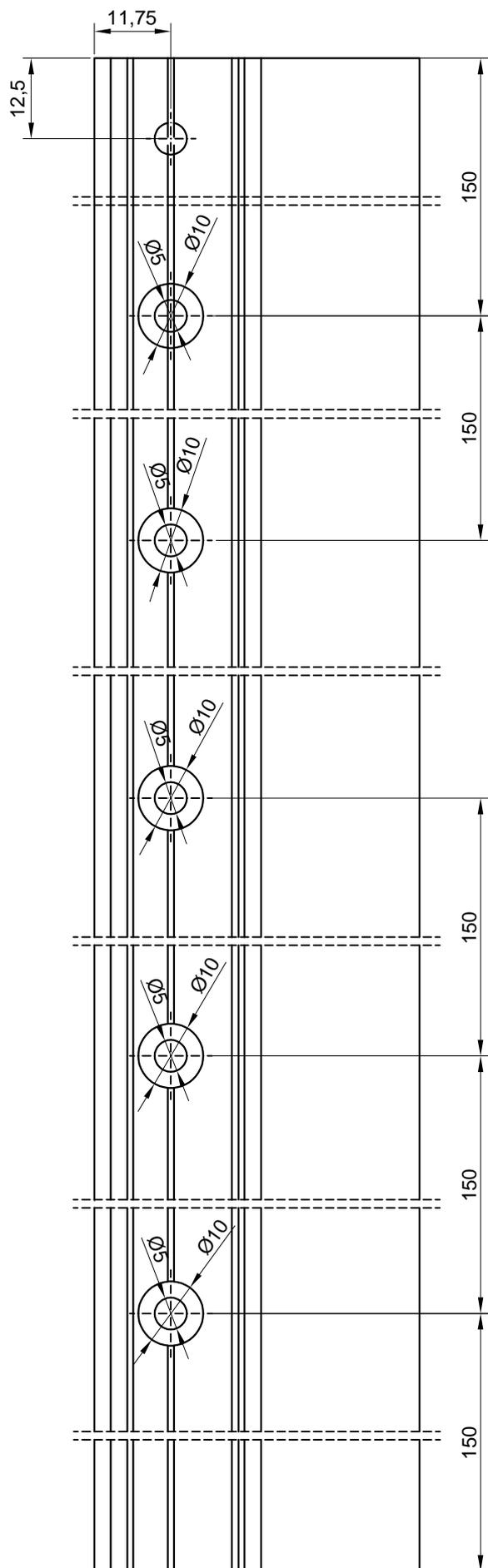
Presjek A-A  
Cross section A-A

521.502

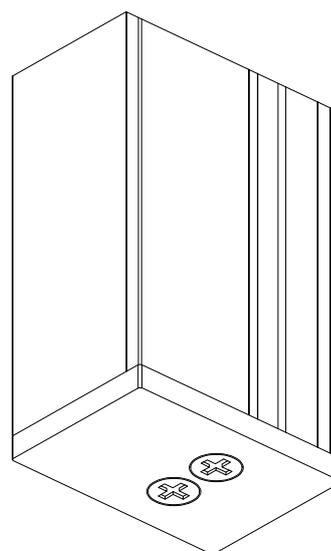
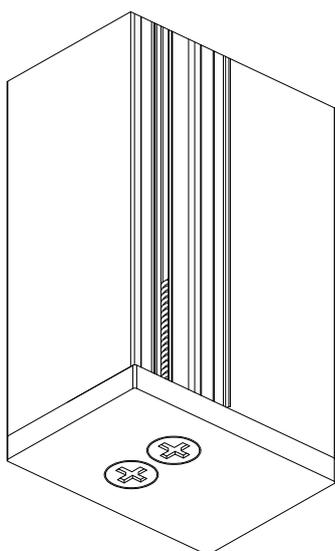
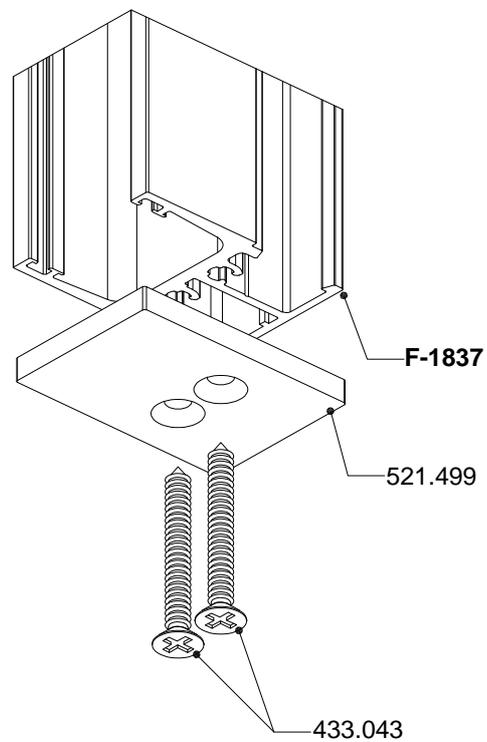
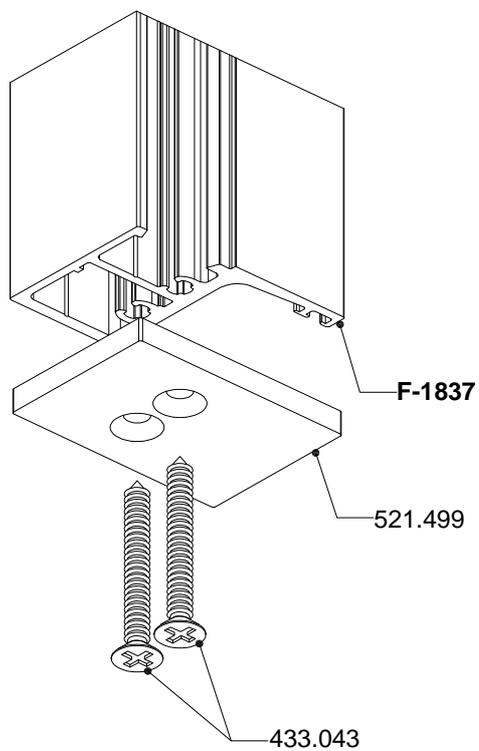
F-1838

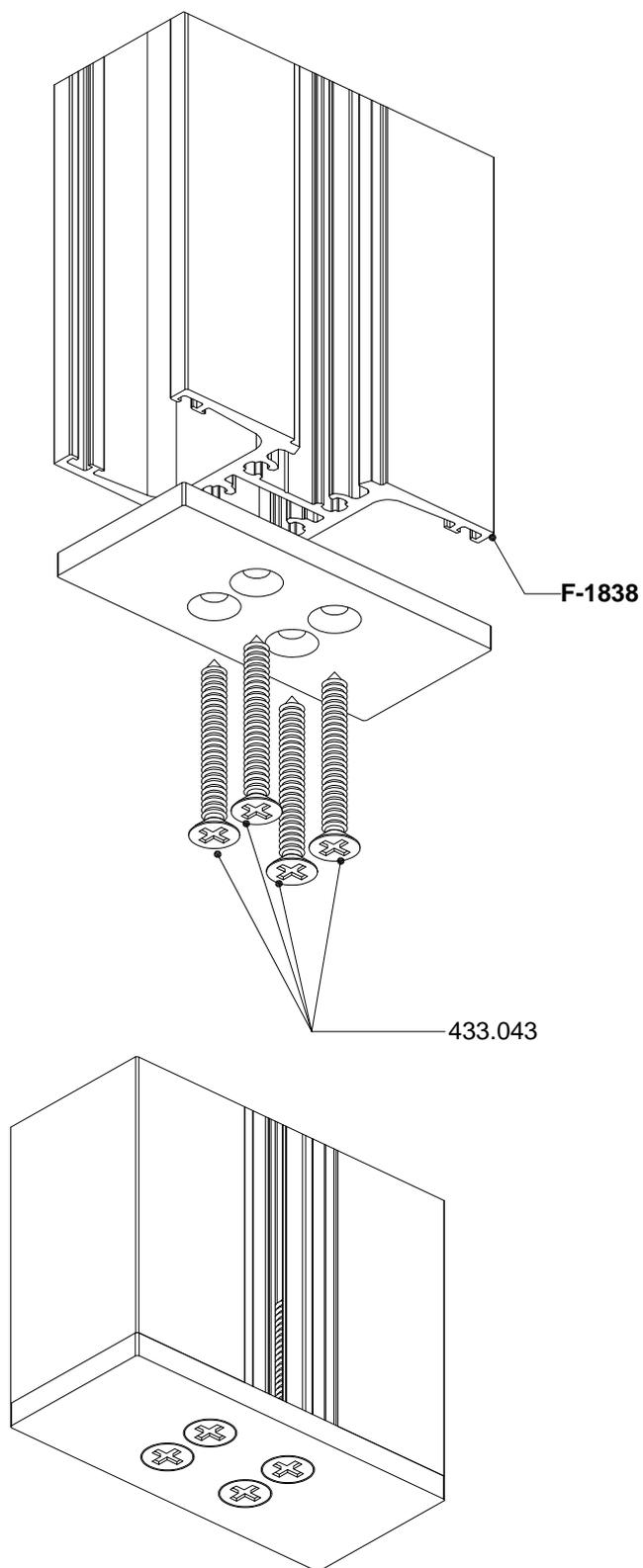


Presjek B-B  
Cross section B-B





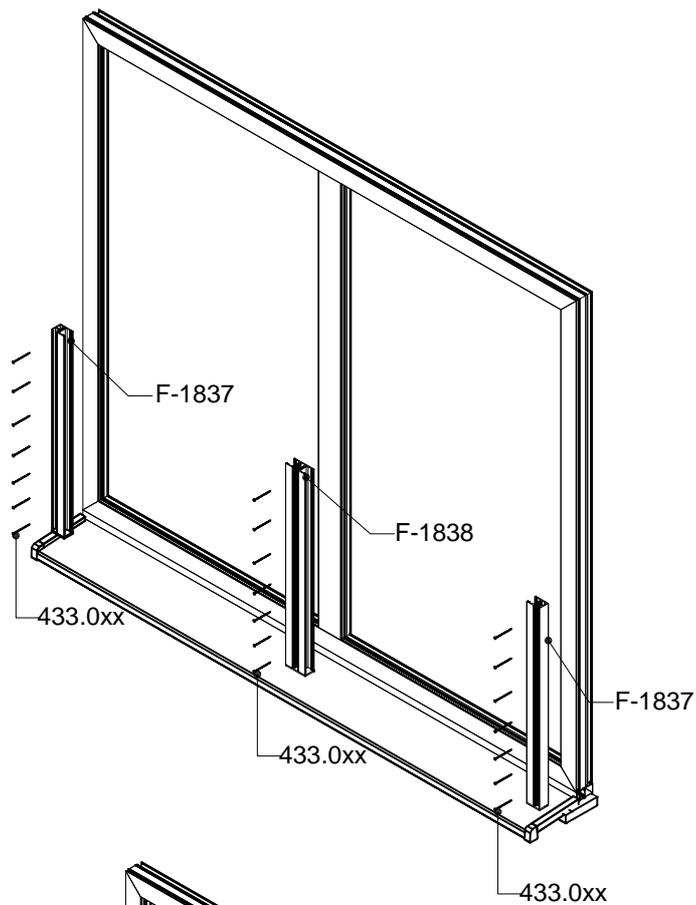






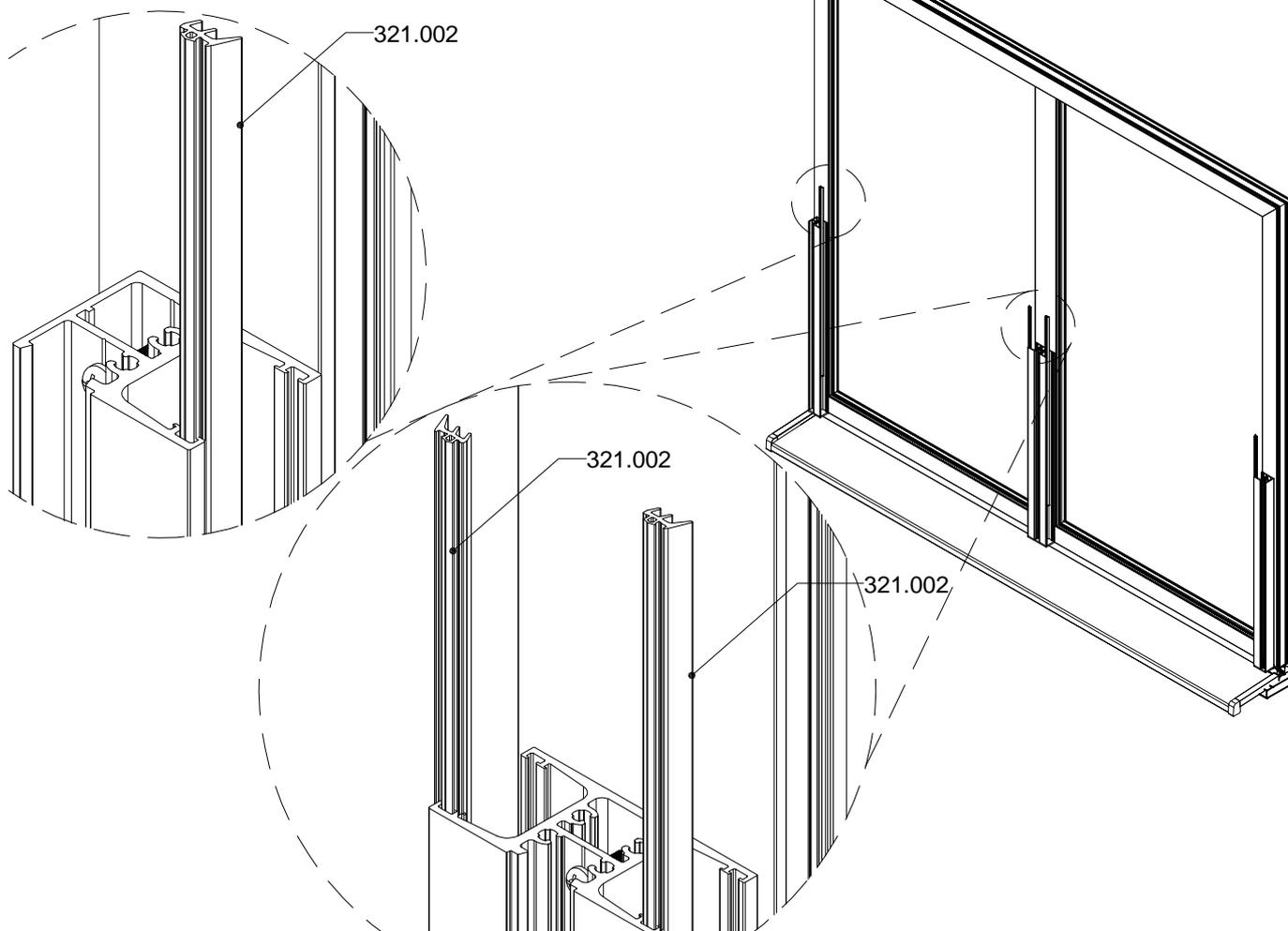
## 1. Montaža F-1837 i F-1838

### 1. Instalation of F-1837 and F-1838

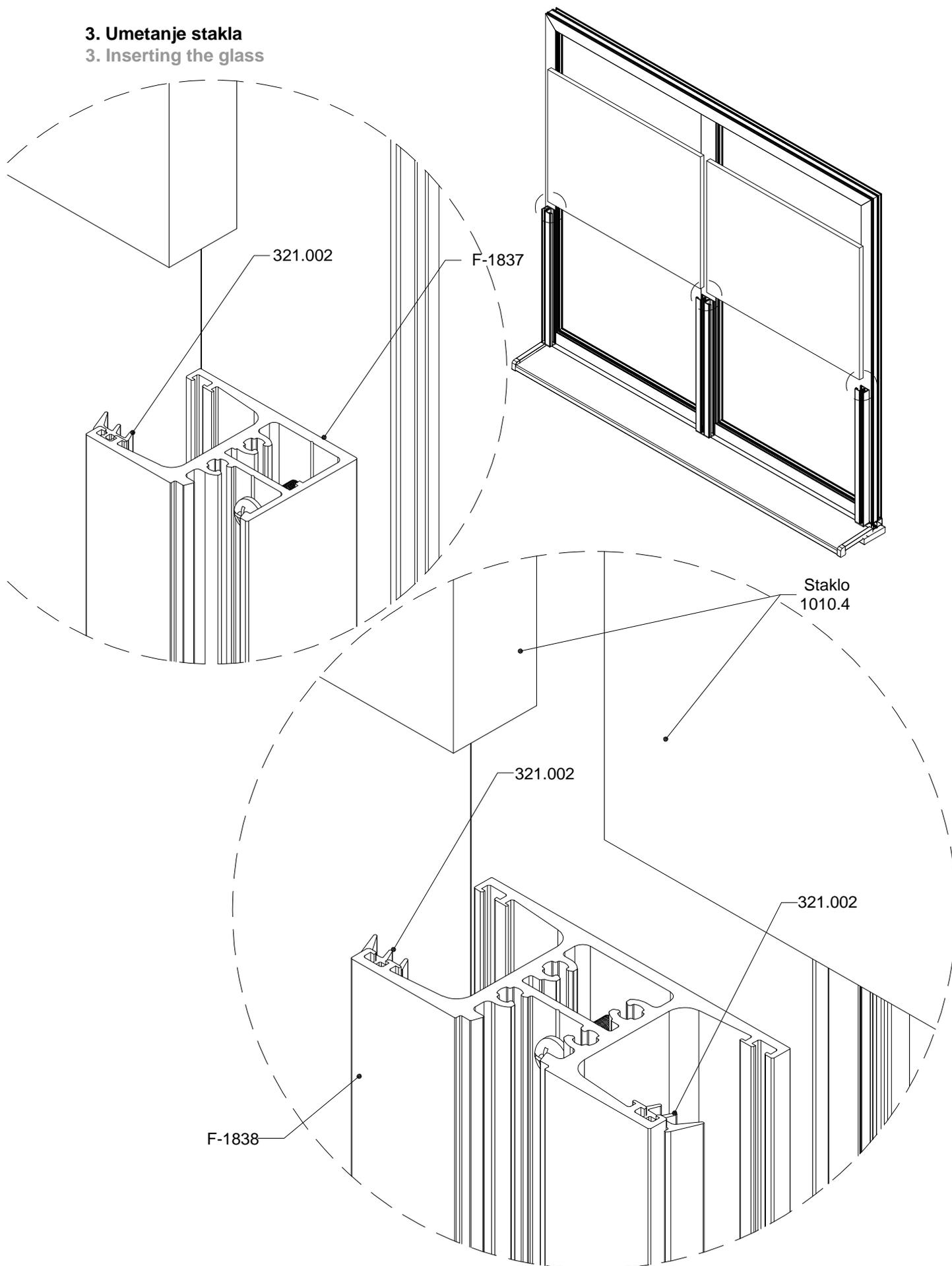


## 2. Postavljanje vanjske brtve

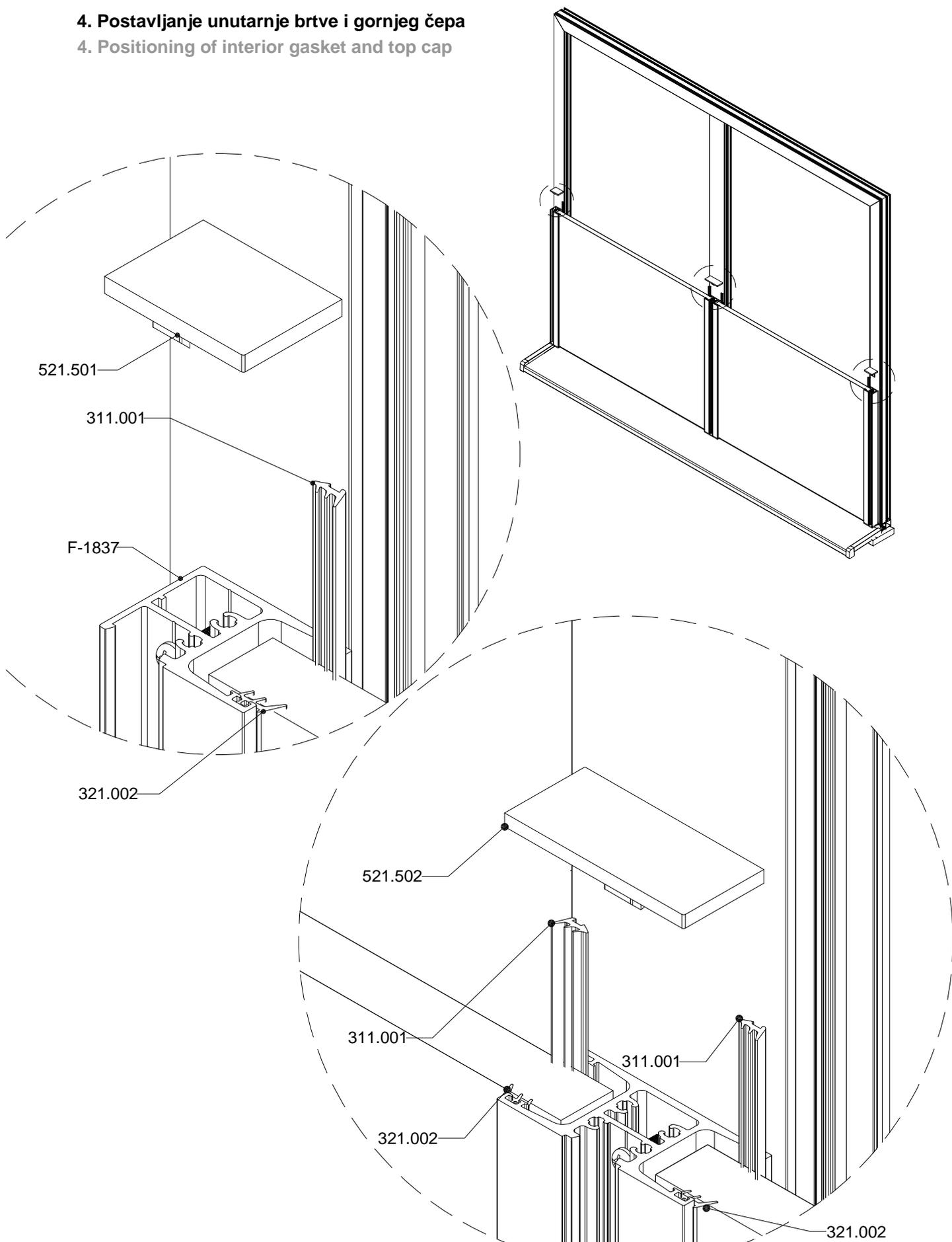
### 2. Positioning of exterior gasket



**3. Umetanje stakla**  
3. Inserting the glass

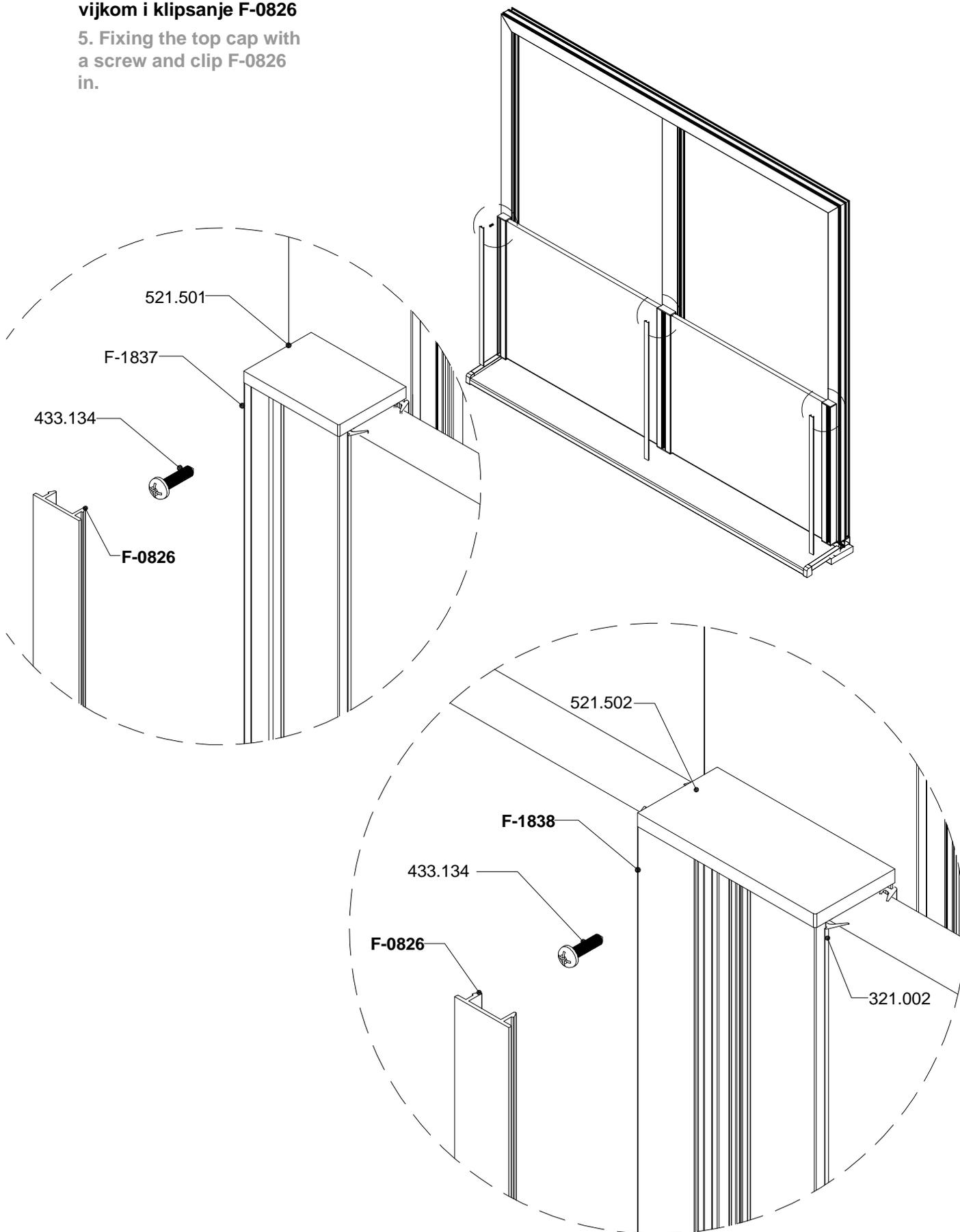


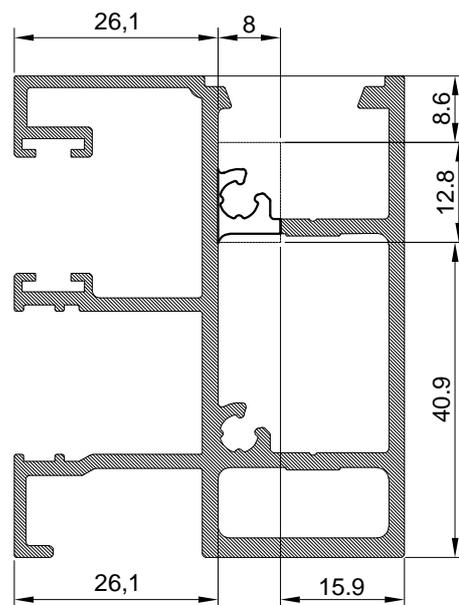
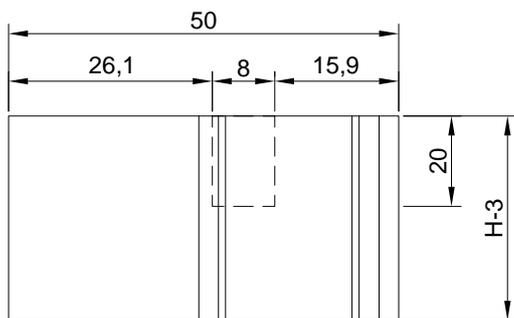
**4. Postavljanje unutarnje brtve i gornjeg čepa**  
4. Positioning of interior gasket and top cap



**5. Fiksiranje gornjeg čepa vijkom i klipsanje F-0826**

5. Fixing the top cap with a screw and clip F-0826 in.



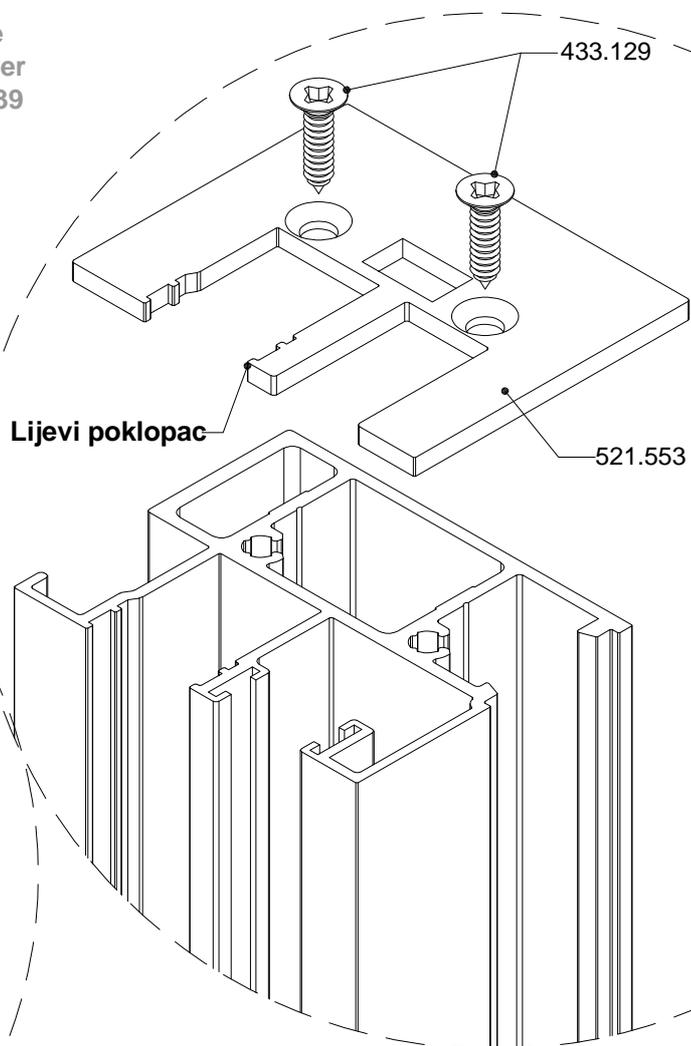
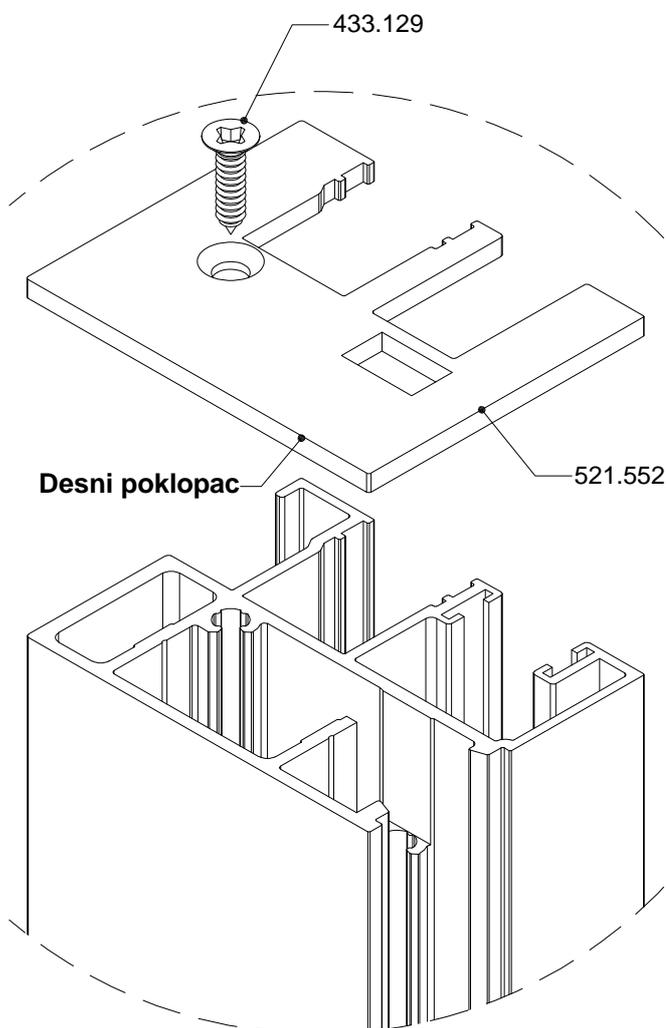


**1. Obrada profila F-1839 za kutiju roletne Elite Exte XT 200x220. Odstranimo materijal u obliku pravokutnika (8x12.8), dubine 20mm na dijelu gdje dolazi lijevi poklopac (521.553). Profil F-1839 gdje dolazi desni poklopac (521.552) ne treba obrađivati. Profil F-1839 je kraći 3 mm od F-1890.**

**1. Processing of profile F-1839 for shutters Elite Exte XT 200x220. Remove the material in the shape of a rectangle (8x12.8), 20mm deep at the part where the left cover comes. Profile F-1839 where the right cover comes does not need to be processed. Profile F-1839 is shorter than F-1890 3 mm.**

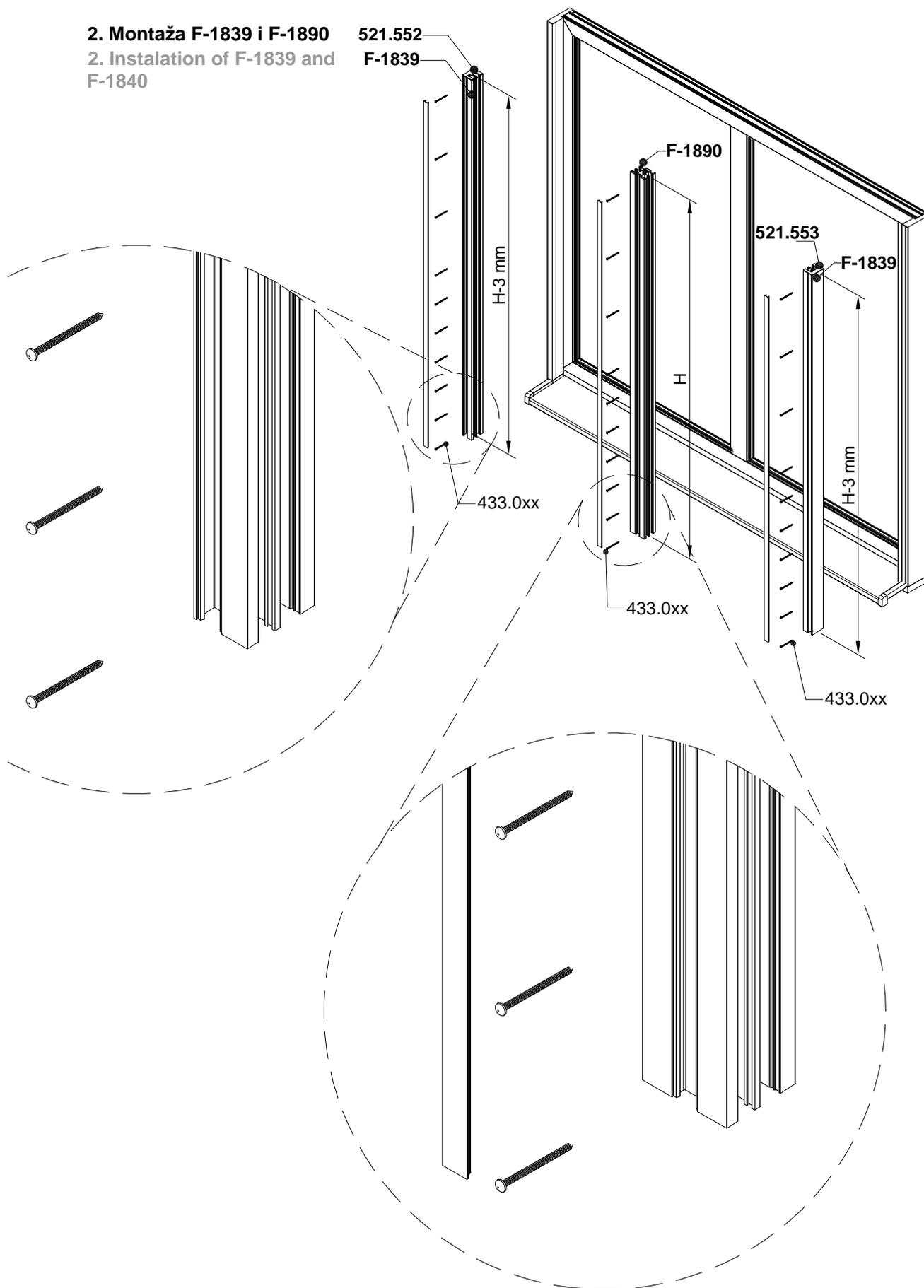
**2. Postavljanje odgovarajućeg poklopca (521.552 ili 521.553) na vrh profila F-1838.**

**2. Placing the cover on top of the profile F-1839.**

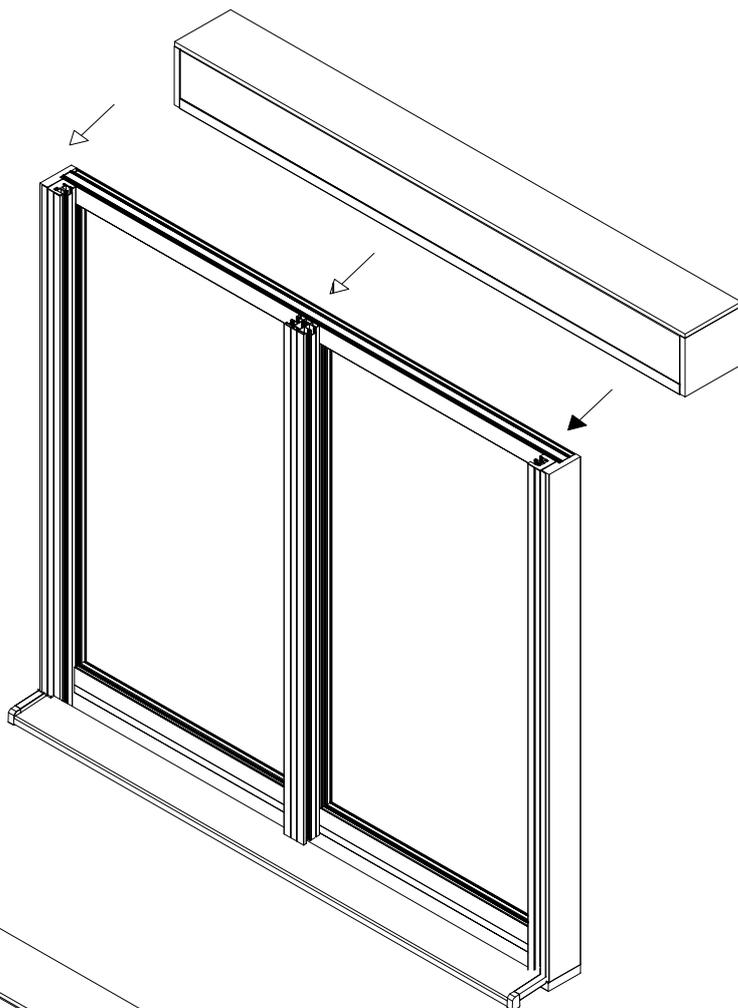


**2. Montaža F-1839 i F-1890**  
2. Instalation of F-1839 and F-1840

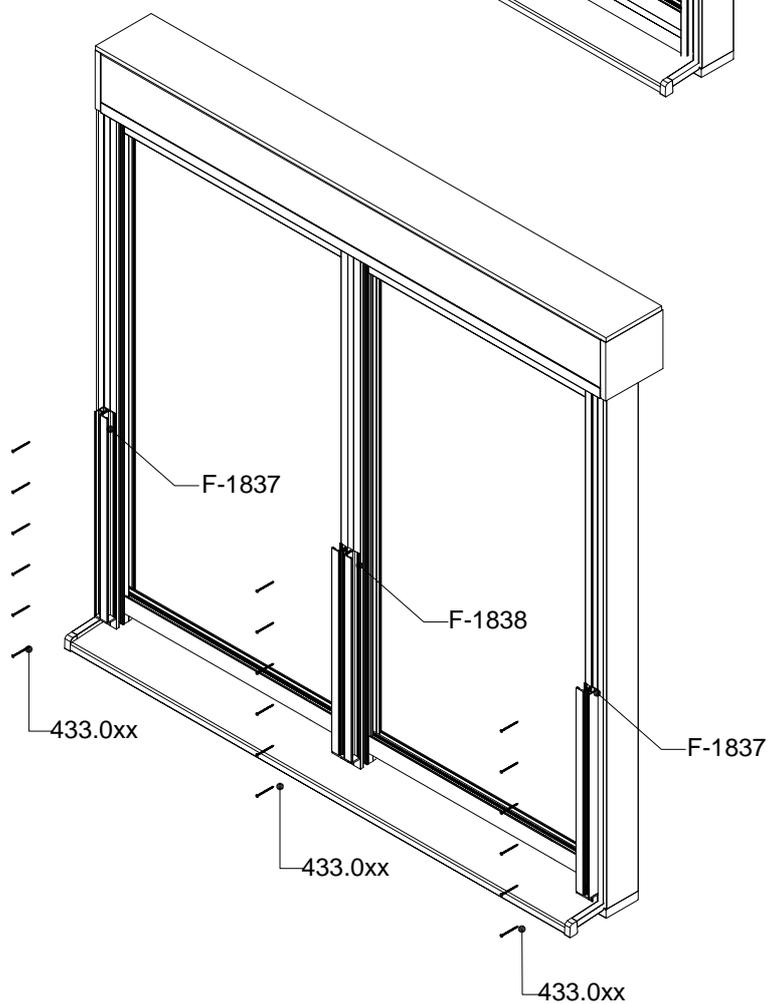
521.552  
F-1839



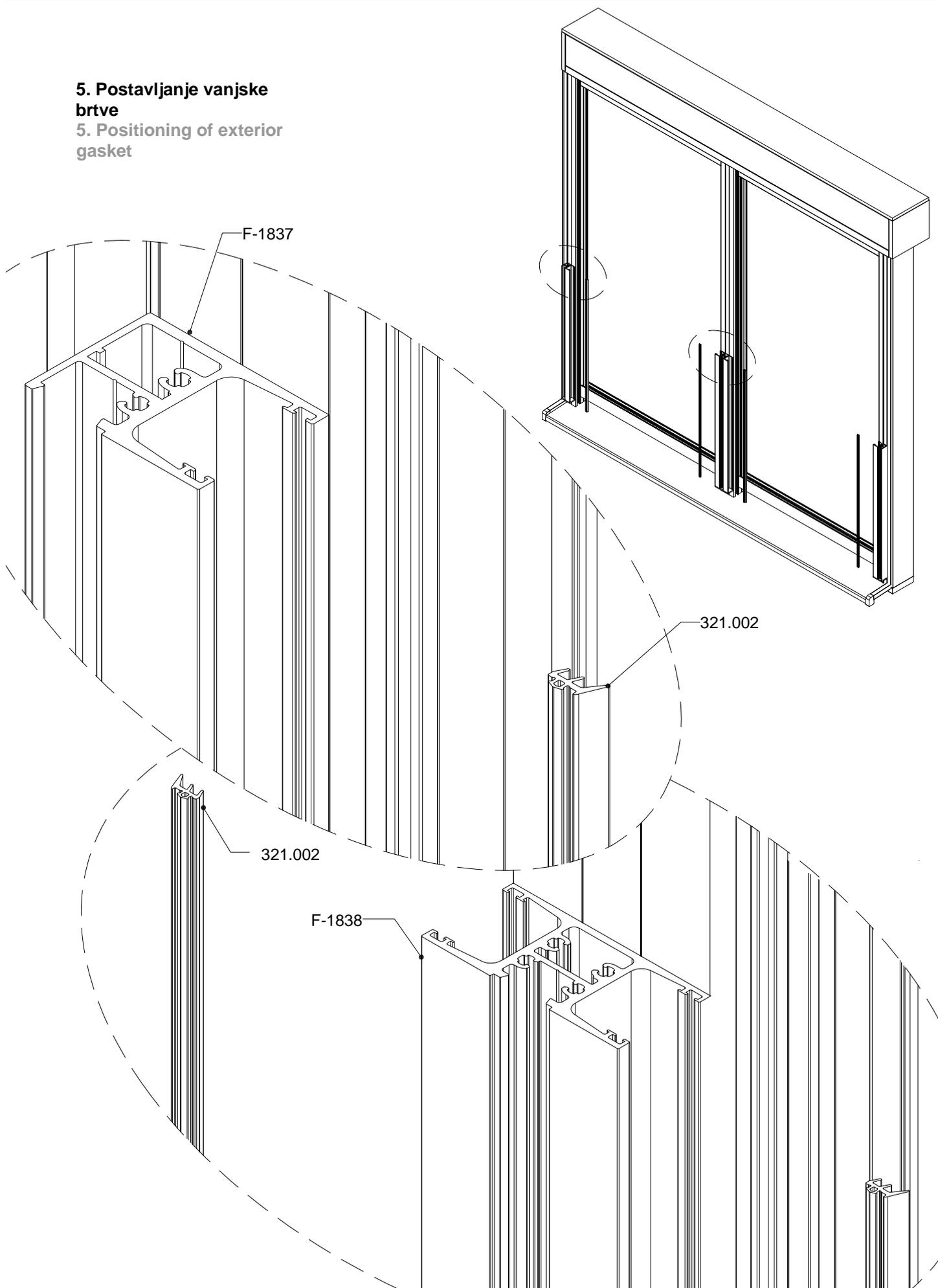
**3. Postavljanje kutije od roletni**  
3. Instalation of roller shutters box



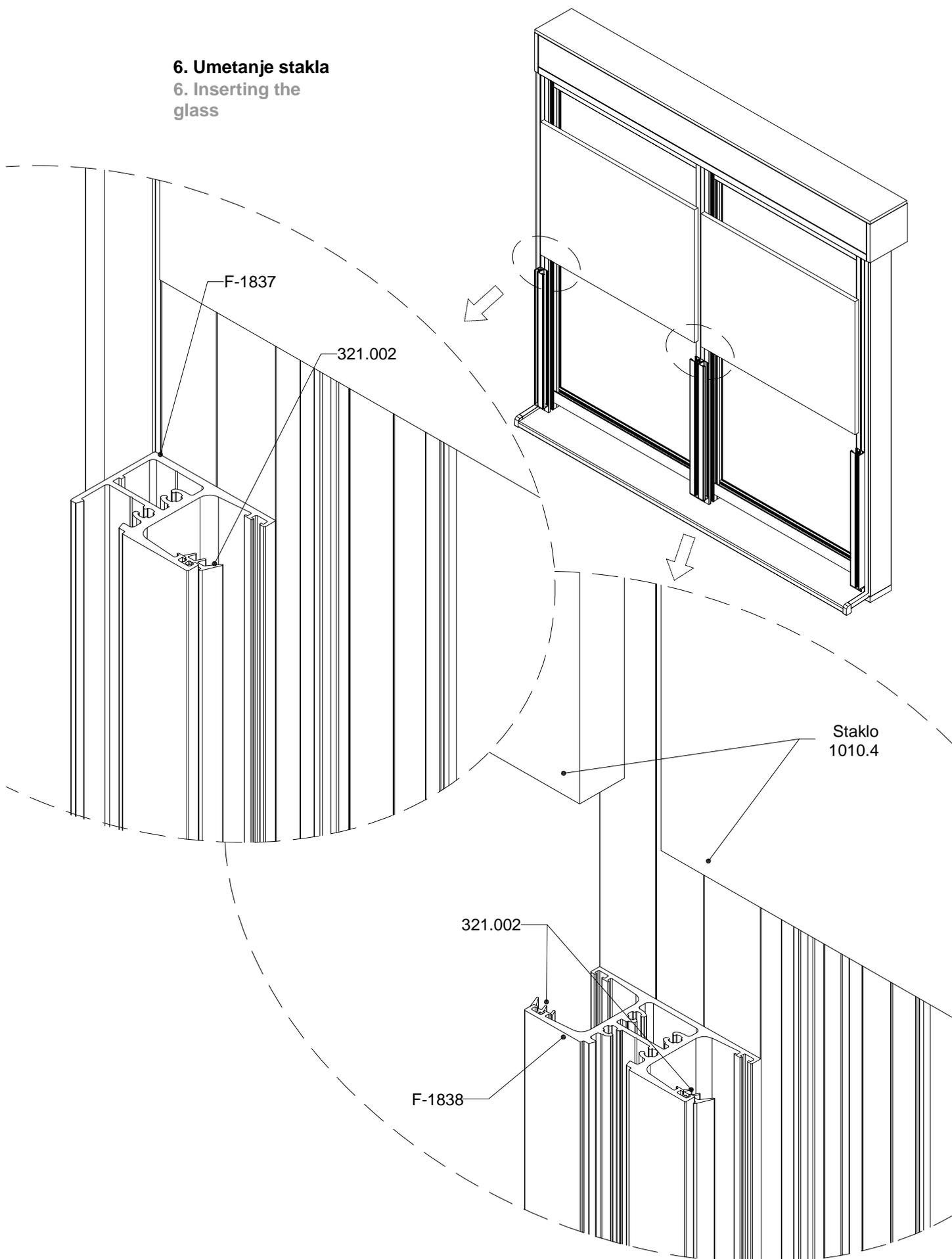
**4. Montaža F-1837 i F-1838**  
4. Instalation of F-1837 and F-1838



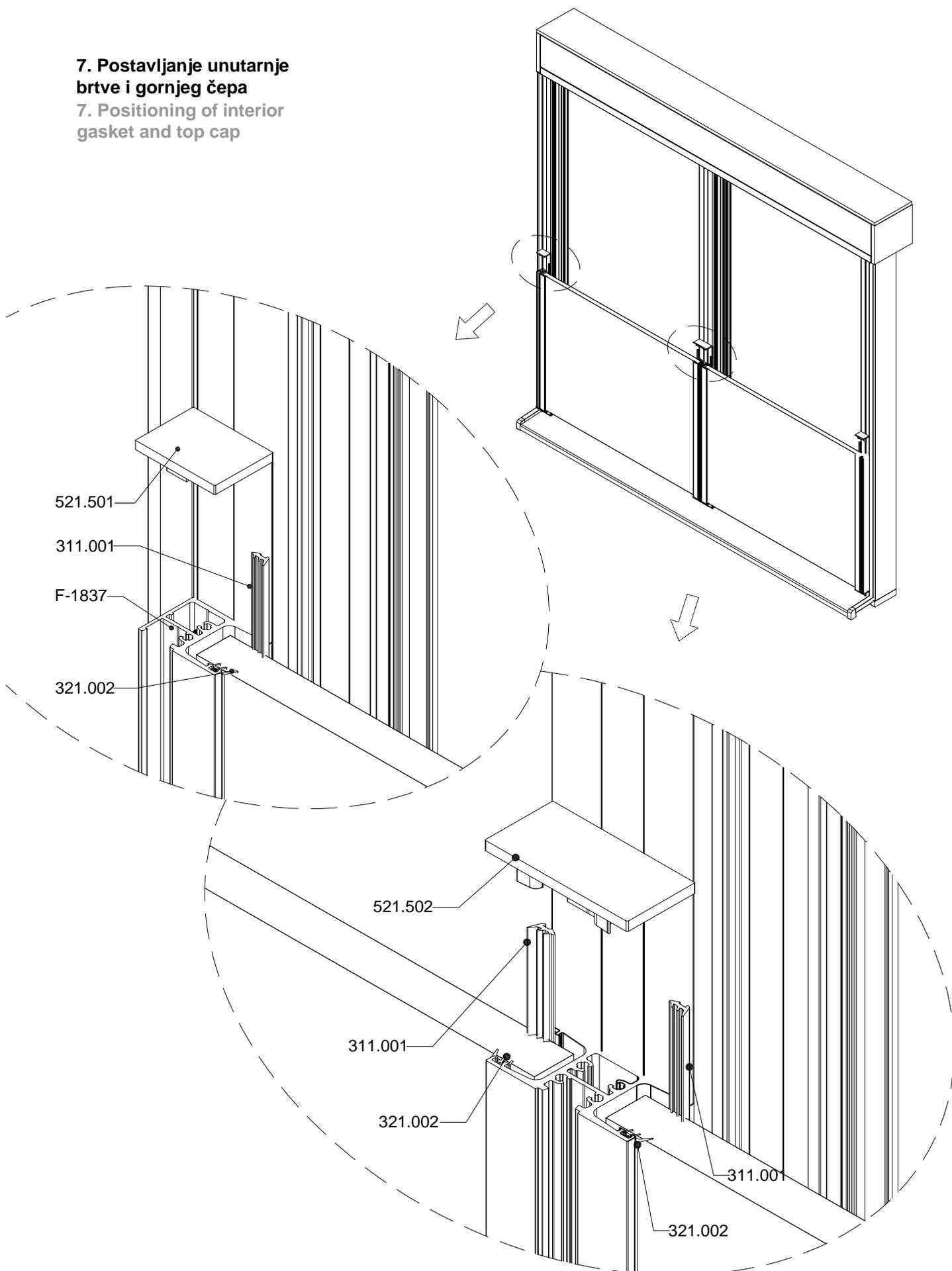
**5. Postavljanje vanjske  
brtve**  
5. Positioning of exterior  
gasket



**6. Umetanje stakla**  
**6. Inserting the glass**

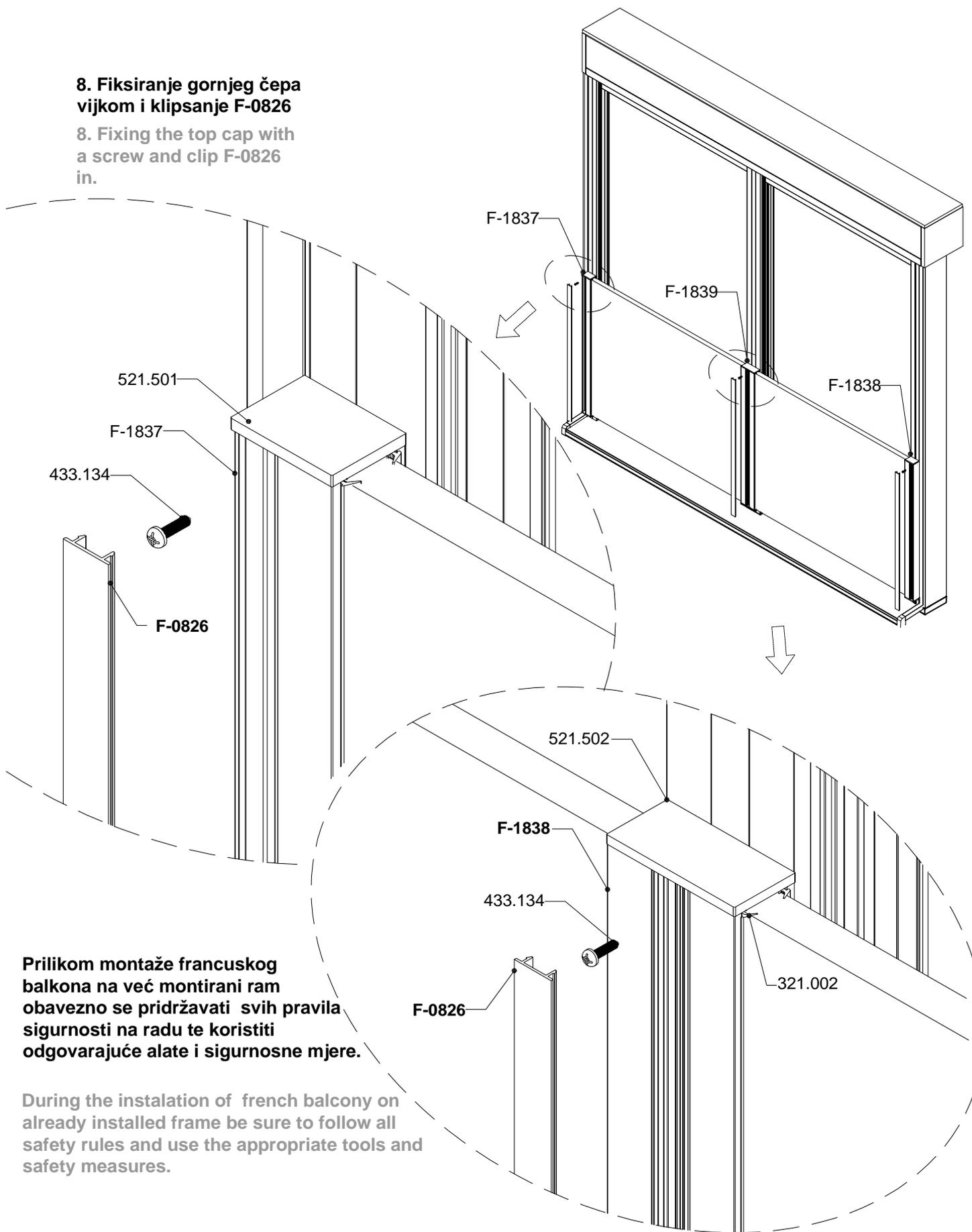


**7. Postavljanje unutarnje  
brtve i gornjeg čepa**  
7. Positioning of interior  
gasket and top cap



**8. Fiksiranje gornjeg čepa vijkom i klipsanje F-0826**

8. Fixing the top cap with a screw and clip F-0826 in.



**Prilikom montaže francuskog balkona na već montirani ram obavezno se pridržavati svih pravila sigurnosti na radu te koristiti odgovarajuće alate i sigurnosne mjere.**

During the instalation of french balcony on already installed frame be sure to follow all safety rules and use the appropriate tools and safety measures.



# Rezne liste

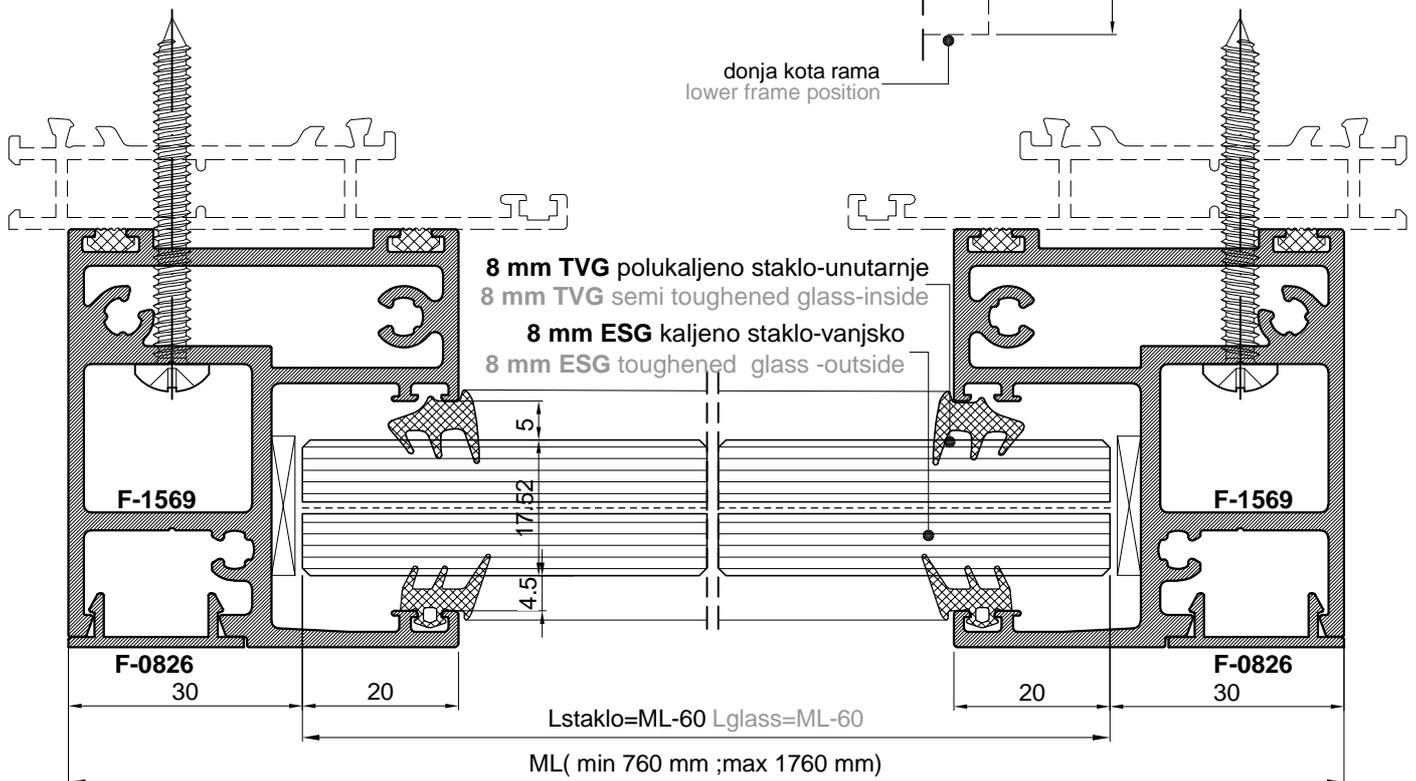
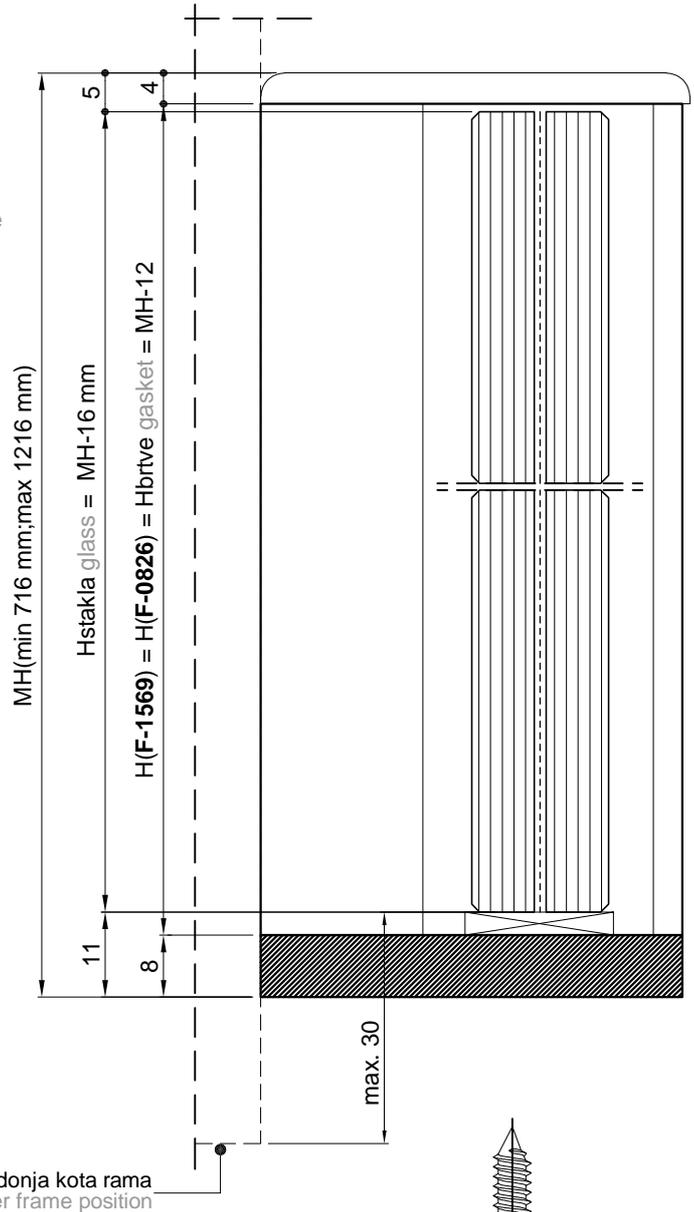
## Cutting lists



Francuski balkon bez rukohvata - staklo 88.4  
French balcony without handrail - glass 88.4

760 mm < ML < 1760 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
<b>Profili Profiles</b>			
F-1569	MH-12	2	90-90
F-0826	MH-12	2	90-90
<b>Brtve Gaskets</b>			
311.007	MH-12	2	90-90
321.003	MH-12	2	90-90
340.055	MH-12	4	90-90
<b>Staklo Glass</b>			
88.4	ML-60 x MH-16	1	
polukaljeno 8 mm + 4 PVB 1,52 mm + kaljeno 8 mm semi toughened 8 mm + 4 PVB 1,52 mm + toughened 8 mm			
<b>Elementi Elements</b>			
373.054		2	
391.148		1	
391.149		1	
370.000		6	
433.133		6	
433.042		2	
433.0xx*		x**	

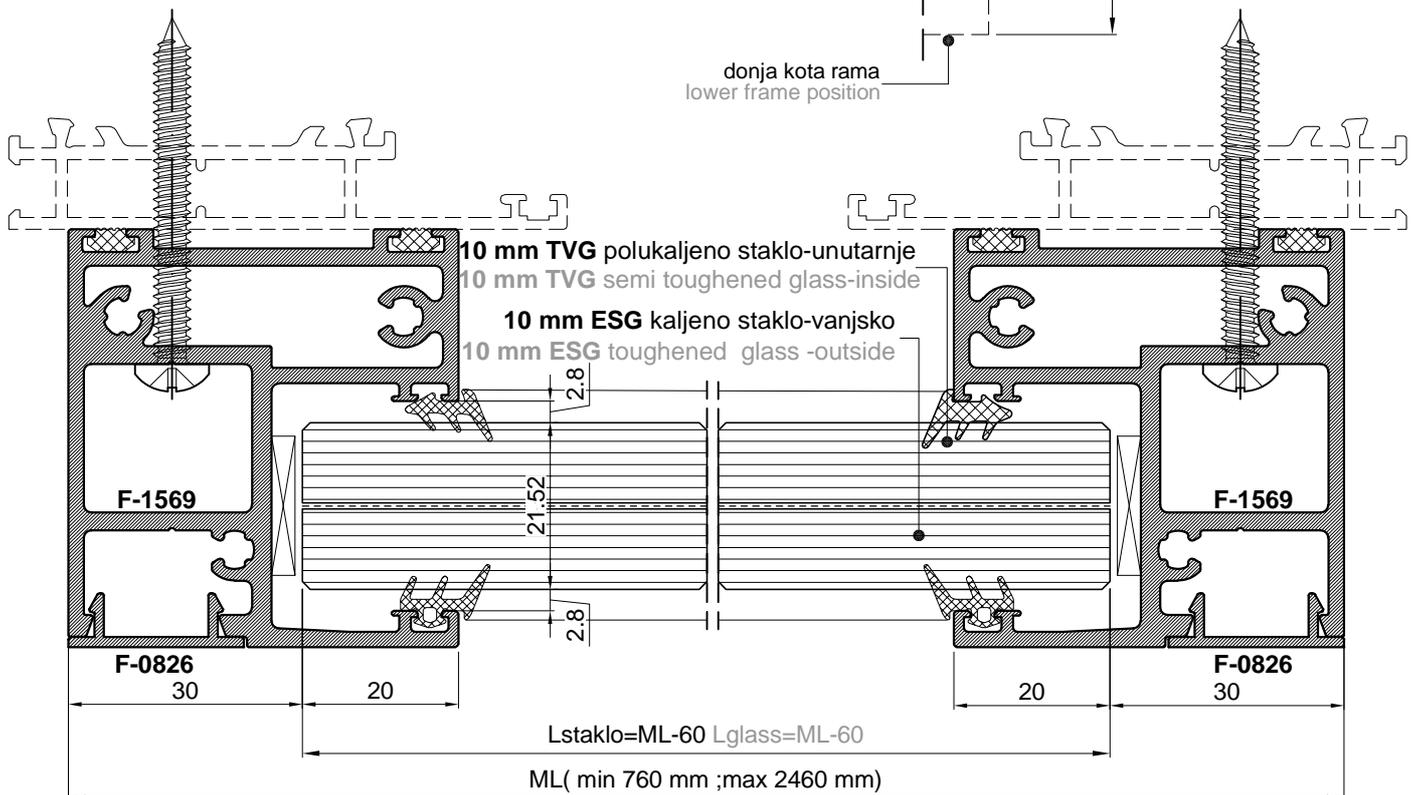
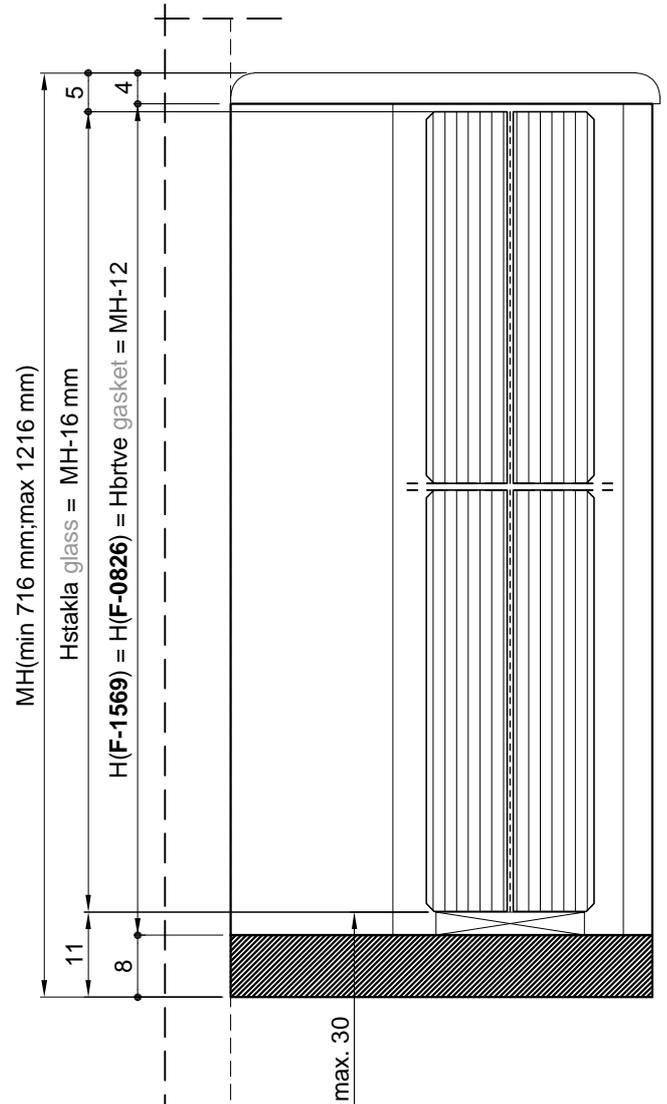


\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 1010.4  
French balcony without handrail - glass 1010.4

760 mm < ML < 2460 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
<b>Profili Profiles</b>			
F-1569	MH-12	2	90-90
F-0826	MH-12	2	90-90
<b>Brtve Gaskets</b>			
311.001	MH-12	2	90-90
321.002	MH-12	2	90-90
340.055	MH-12	4	90-90
<b>Staklo Glass</b>			
1010.4	ML-60 x MH-16	1	
polukaljeno 10 mm + 4 PVB 1,52 mm + kaljeno 10 mm semi toughened 10 mm + 4 PVB 1,52 mm + toughened 10 mm			
<b>Elementi Elements</b>			
373.054		2	
391.148		1	
391.149		1	
370.000		6	
433.134		6	
433.042		2	
433.0xx*		x**	



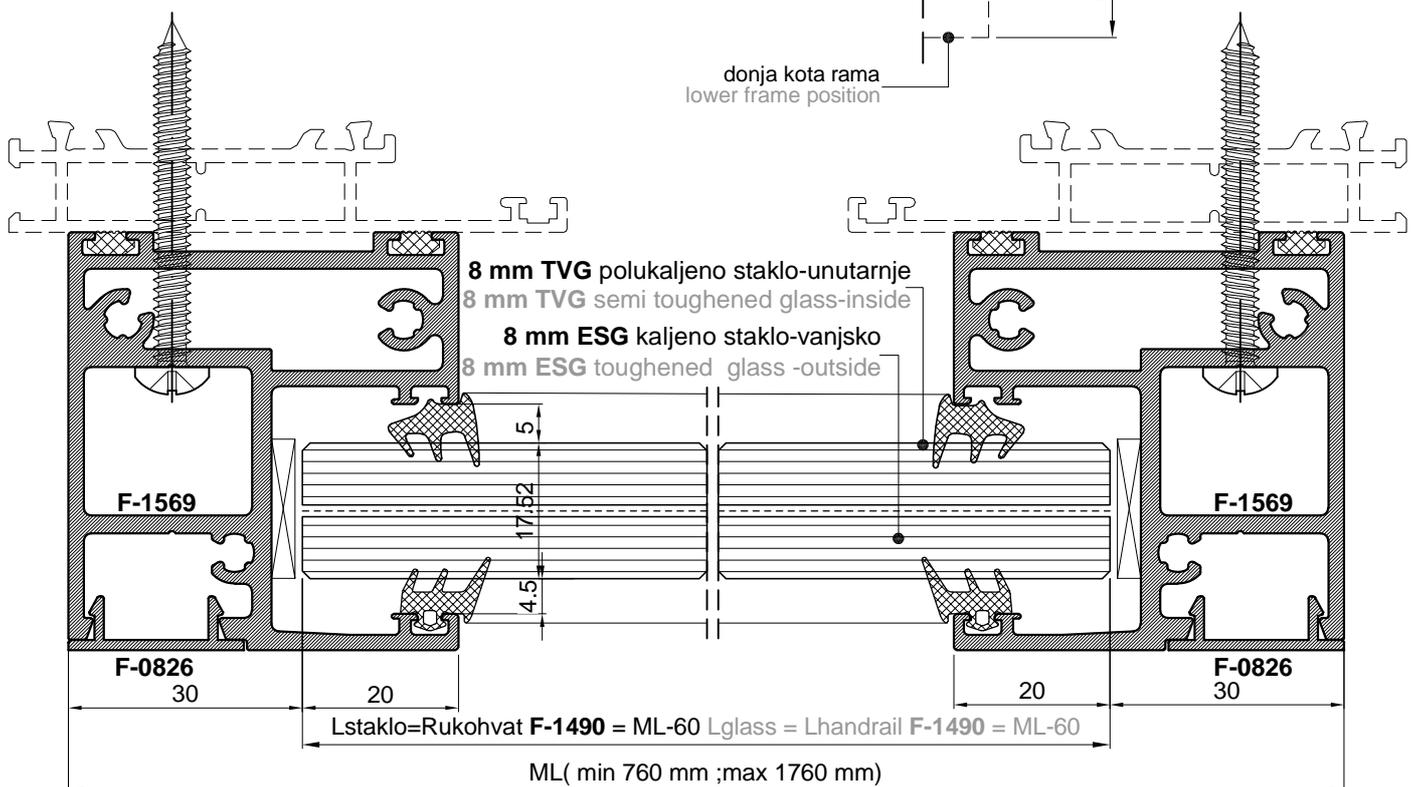
\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon s rukohvatom **F-1490** - staklo 88.4  
French balcony with handrail **F-1490** - glass 88.4

Jednokomponentno ljepilo  
**TEROSON MS 939**  
Onecomponent glue  
**TEROSON MS 939**

760 mm < ML < 1760 mm  
724 mm < MH < 1224 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
<b>Profili Profiles</b>			
F-1569	MH-12	2	90-90
F-0826	MH-12	2	90-90
F-1490	ML-60	1	90-90
<b>Brtve Gaskets</b>			
311.007	MH-41	2	90-90
321.003	MH-41	2	90-90
340.055	MH-12	4	90-90
<b>Staklo Glass</b>			
88.4	ML-60 x MH-24	1	
polukaljeno 8 mm + 4 PVB 1,52 mm + kaljeno 8 mm semi toughened 8 mm + 4 PVB 1,52 mm + toughened 8 mm			
<b>Elementi Elements</b>			
373.054		2	
391.148		1	
391.149		1	
370.000		6	
433.134		6	
433.042		2	
433.0xx*		x**	



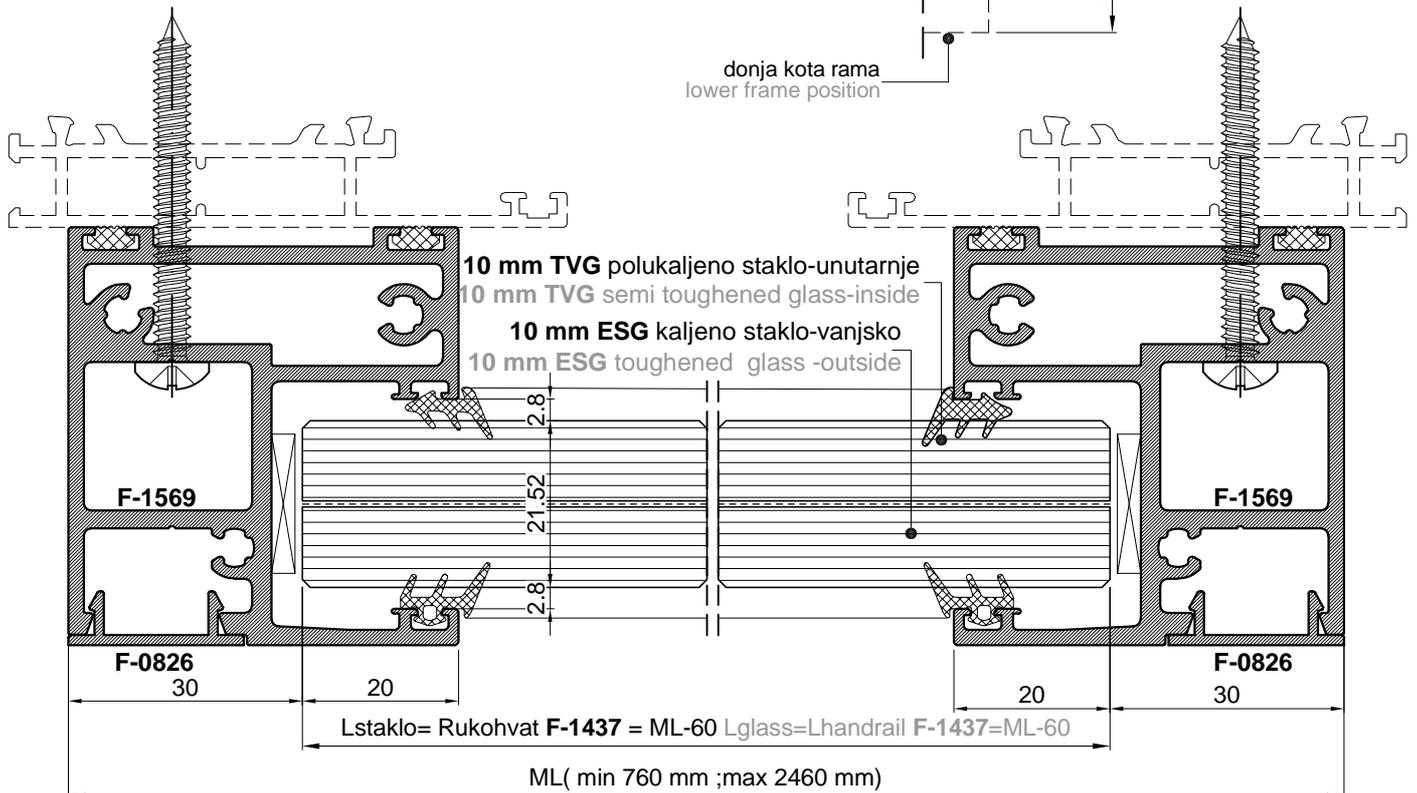
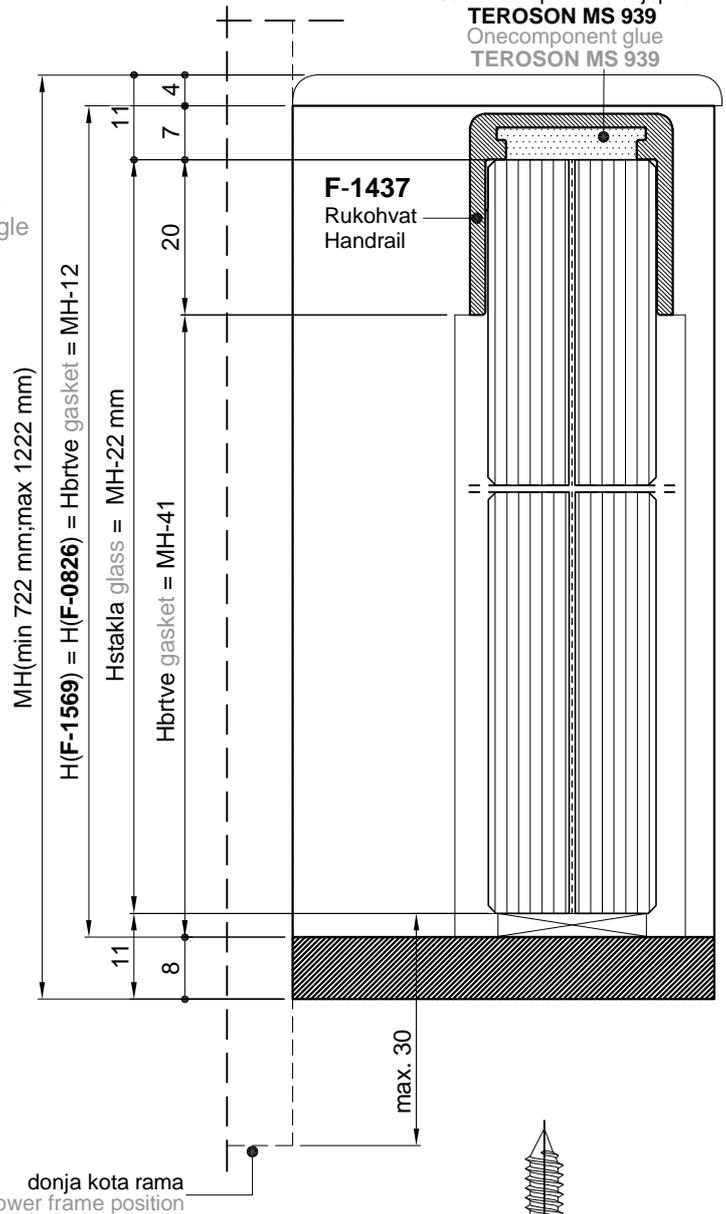
\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon s rukohvatom **F-1437** - staklo 1010.4  
French balcony with a handrail **F-1497** glass 1010.4

Jednokomponentno ljepilo  
**TEROSON MS 939**  
Onecomponent glue  
**TEROSON MS 939**

**760 mm < ML < 2460 mm**  
**722 mm < MH < 1222 mm**

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
<b>Profili Profiles</b>			
F-1569	MH-12	2	90-90
F-0826	MH-12	2	90-90
F-1437	ML-60	1	90-90
<b>Brtve Gaskets</b>			
311.001	MH-41	2	90-90
321.002	MH-41	2	90-90
340.055	MH-12	4	90-90
<b>Staklo Glass</b>			
1010.4	ML-62 x MH-21	1	
polukaljeno 10 mm + 4 PVB 1,52 mm + kaljeno 10 mm semi toughened 10 mm + 4 PVB 1,52 mm + toughened 10 mm			
<b>Elementi Elements</b>			
373.054		2	
391.148		1	
391.149		1	
370.000		6	
433.134		6	
433.042		2	
433.0xx*		x**	



\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height



Francuski balkon bez rukohvata - staklo 1010.4  
French balcony without handrail - glass 1010.4

1500 mm < ML < 3500 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-1838	MH-10	1	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

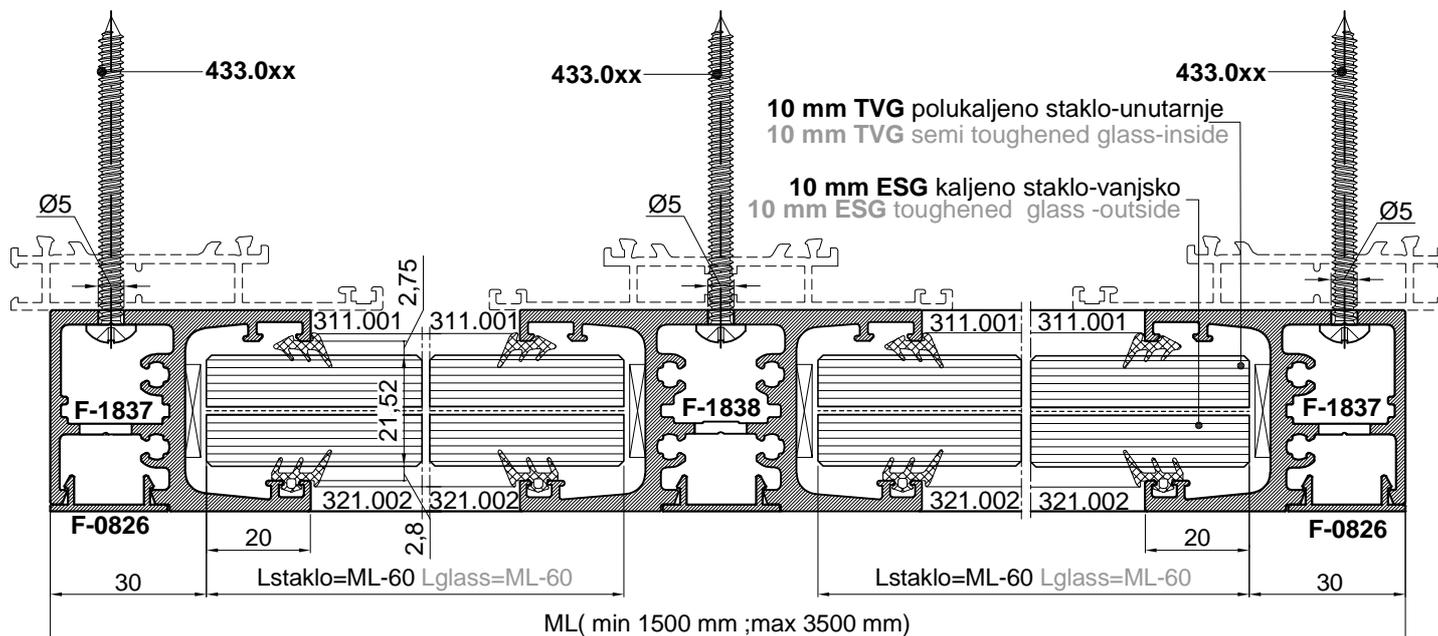
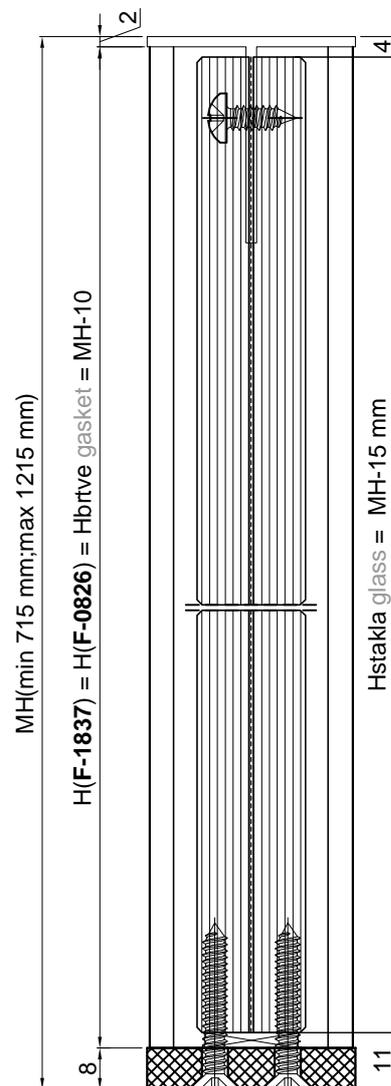
311.001	MH-10	4	90-90
321.002	MH-10	4	90-90

### Staklo Glass

1010.4	ML-60 x MH-15	2
polukaljeno 10 mm + 4 PVB 1,52 mm + kaljeno 10 mm semi toughened 10 mm + 4 PVB 1,52 mm + toughened 10 mm		

### Elementi Elements

521.499	2
521.500	1
521.501	2
521.502	1
370.000	12
433.133	8
433.042	3
433.0xx*	x**



\*- ovisi o profilu na koji se montira  
\*- depends upon the mounting profile

\*\*- ovisi o visini balkona  
\*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 88.4  
French balcony without handrail - glass 88.4

760 mm < ML < 1760 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

311.007	MH-10	2	90-90
321.003	MH-10	2	90-90

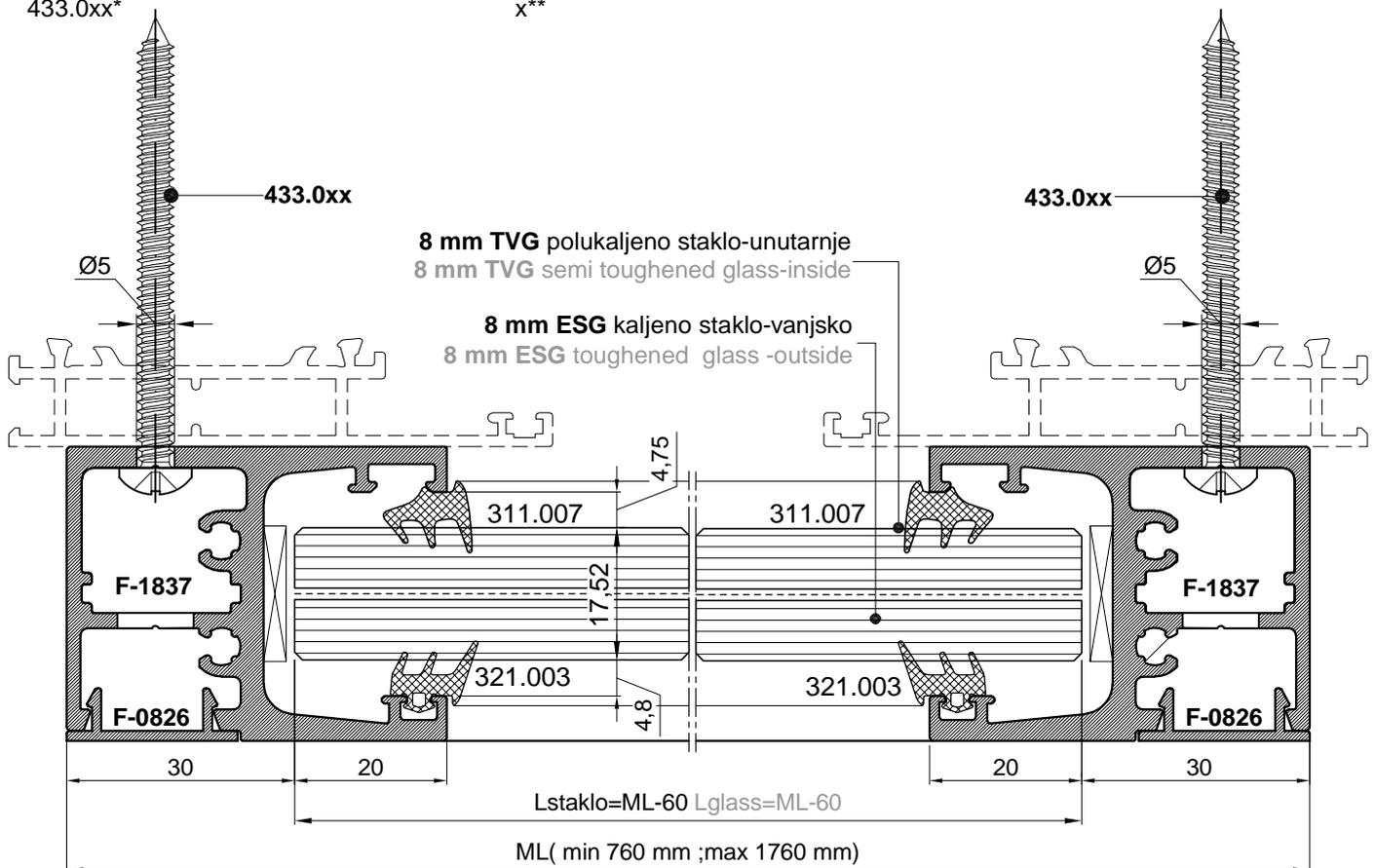
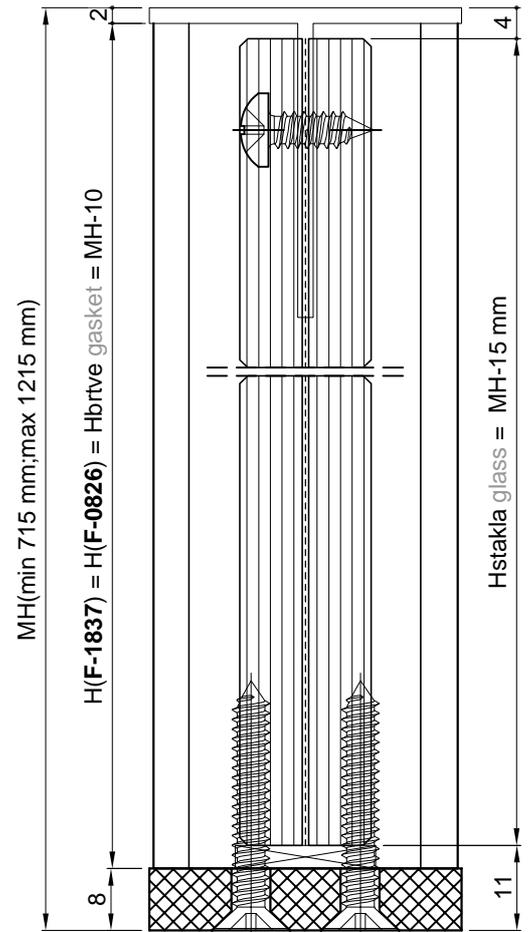
### Staklo Glass

88.4	ML-60 x MH-15	1	
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polukaljeno 8 mm +  
4 PVB 1,52 mm +  
kaljeno 8 mm  
semi toughened 8 mm +  
4 PVB 1,52 mm +  
toughened 8 mm

### Elementi Elements

521.499	2
521.501	2
370.000	6
433.133	4
433.042	2
433.0xx*	x**



\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 88.4  
French balcony without handrail - glass 88.4

1500 mm < ML < 3500 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-1838	MH-10	1	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

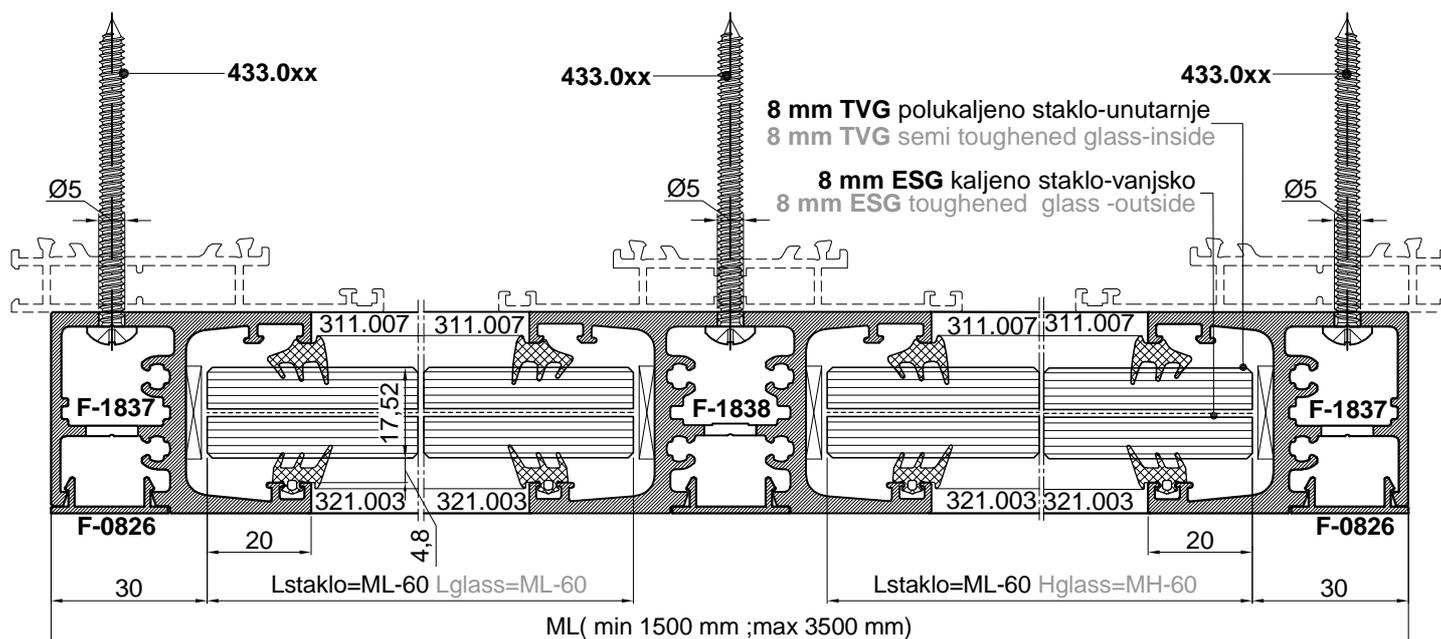
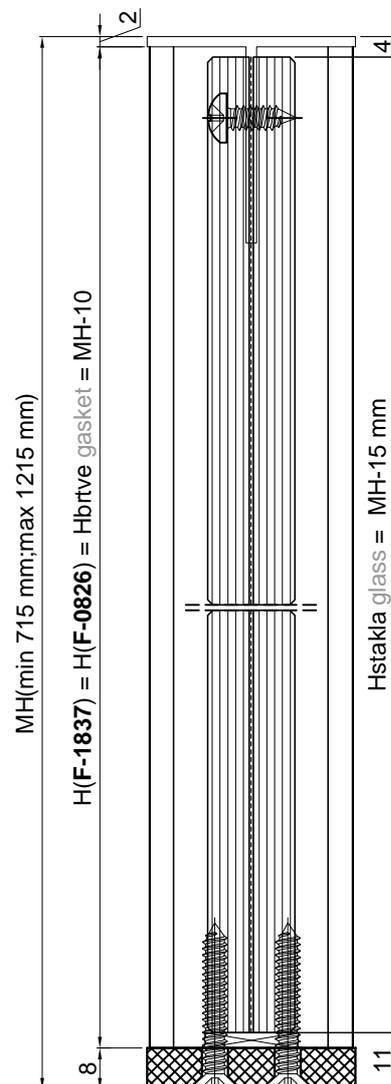
311.007	MH-10	4	90-90
321.003	MH-10	4	90-90

### Staklo Glass

88.4	ML-60 x MH-15	2
polukaljeno 8 mm + 4 PVB 1,52 mm + kaljeno 8 mm semi toughened 8 mm + 4 PVB 1,52 mm + toughened 8 mm		

### Elementi Elements

521.499	2
521.500	1
521.501	1
521.502	2
370.000	12
433.133	8
433.042	3
433.0xx*	x**



\*- ovisi o profilu na koji se montira  
\*- depends upon the mounting profile

\*\* - ovisi o visini balkona  
\*\* - depends upon balcony height

Francuski balkon bez rukohvata - staklo 66.4  
French balcony without handrail - glass 66.4

760 mm < ML < 1460 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

311.002	MH-10	2	90-90
321.002	MH-10	2	90-90

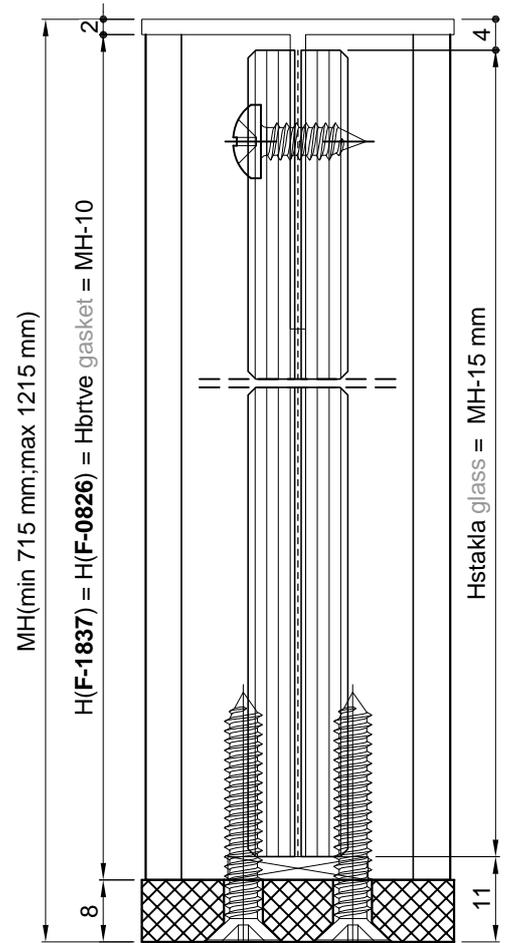
### Staklo Glass

66.4	ML-60 x MH-15	1	
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polukaljeno 6 mm +  
4 PVB 1,52 mm +  
kaljeno 6 mm  
semi toughened 6 mm +  
4 PVB 1,52 mm +  
toughened 6 mm

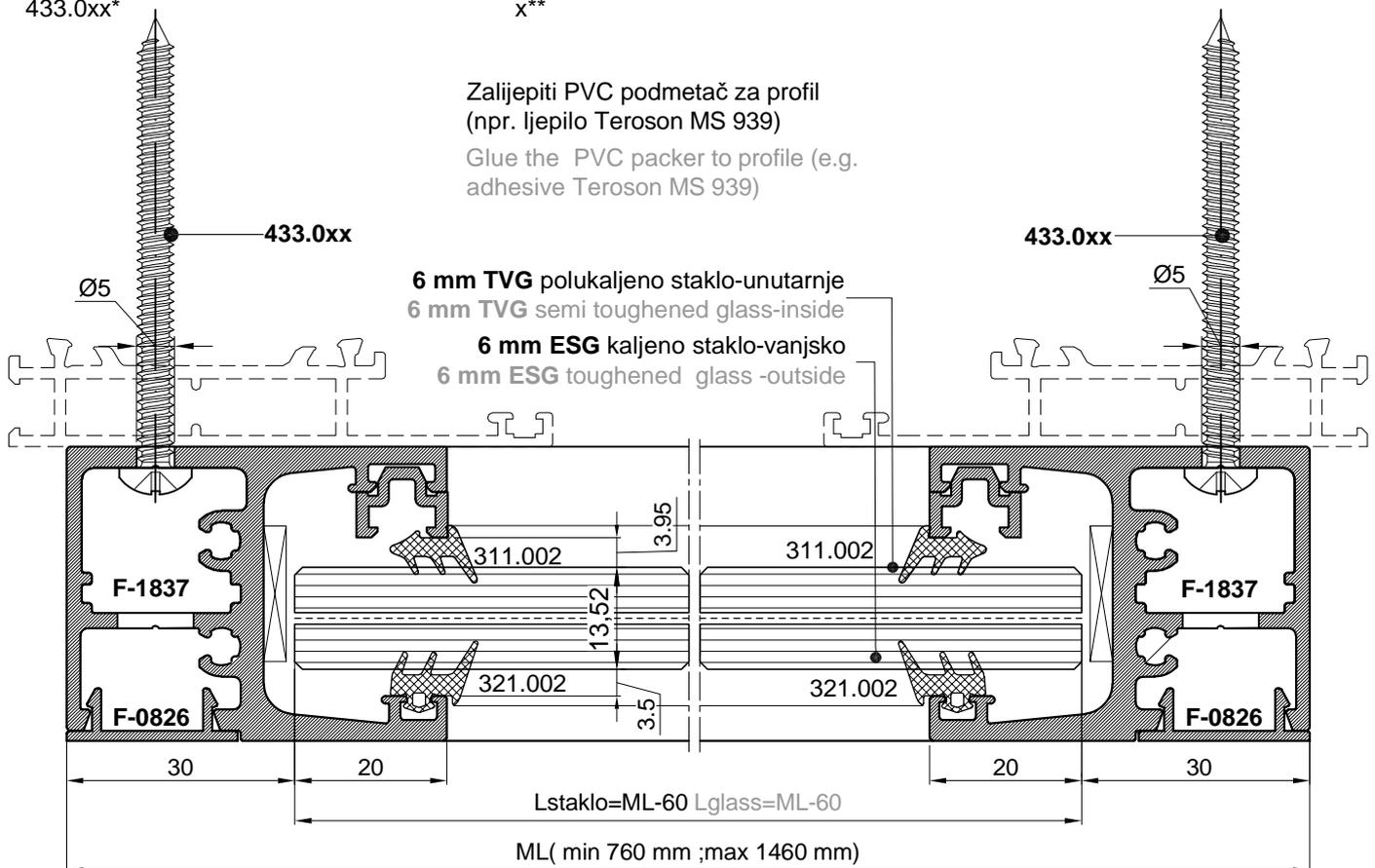
### Elementi Elements

521.499	2
521.501	2
370.000	6
433.133	4
433.042	2
433.0xx*	x**



Zalijepiti PVC podmetač za profil  
(npr. ljepilo Teroson MS 939)

Glue the PVC packer to profile (e.g.  
adhesive Teroson MS 939)



\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 66.4  
French balcony without handrail - glass 66.4

1500 mm < ML < 2800 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-1838	MH-10	1	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

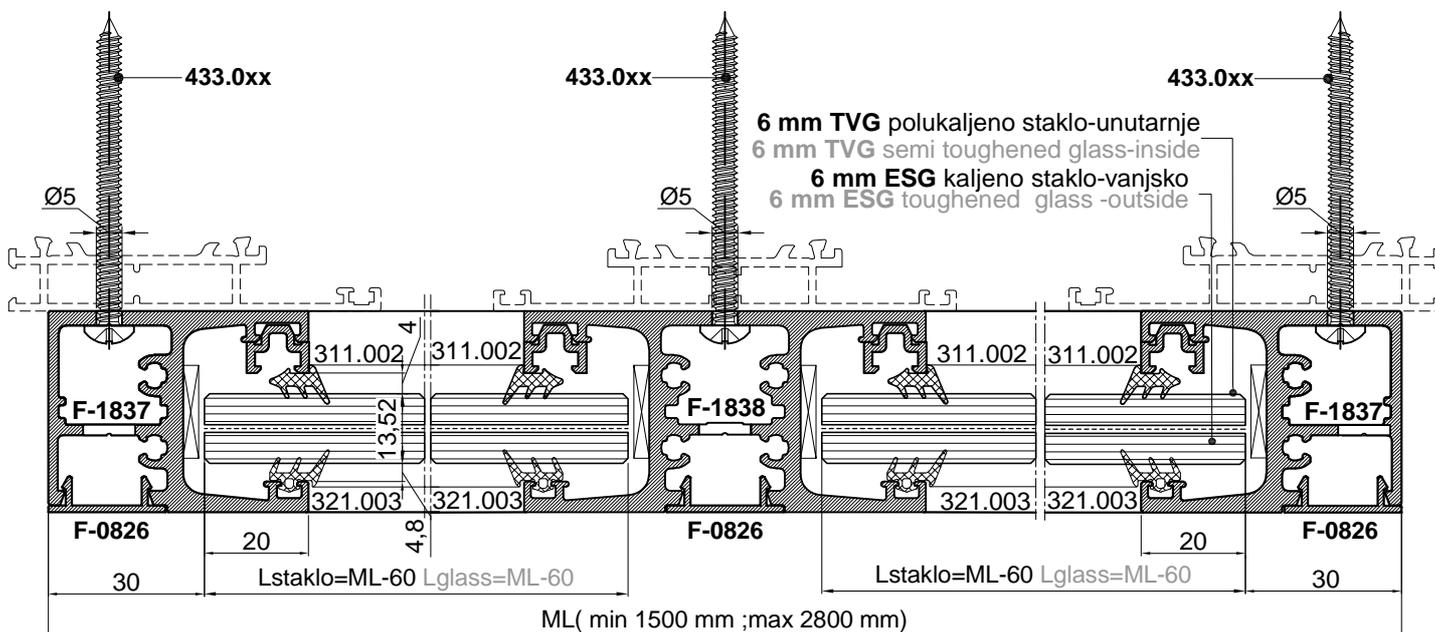
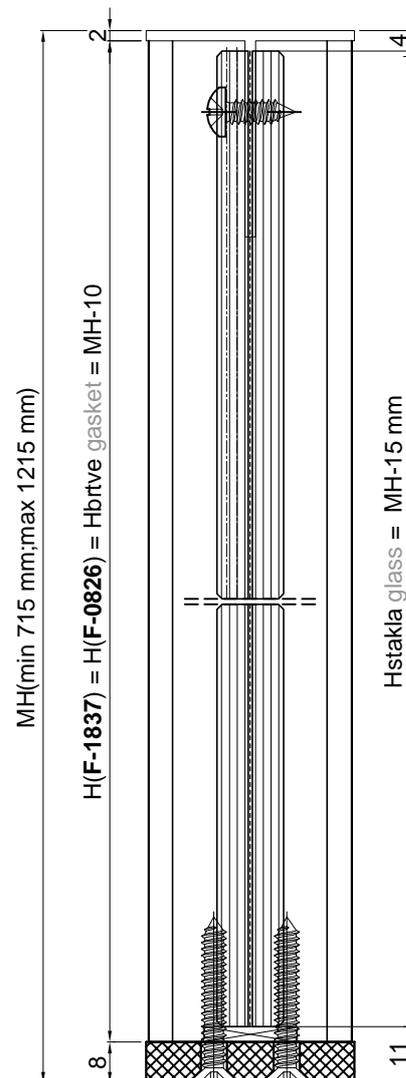
311.002	MH-10	4	90-90
321.003	MH-10	4	90-90

### Staklo Glass

66.4	ML-60 x MH-15	2
polukaljeno 6 mm + 4 PVB 1,52 mm + kaljeno 6 mm semi toughened 6 mm + 4 PVB 1,52 mm + toughened 6 mm		

### Elementi Elements

521.499	2
521.500	1
521.501	1
521.502	6
370.000	12
433.133	8
433.042	3
433.0xx*	x**



\*- ovisi o profilu na koji se montira  
\*- depends upon the mounting profile

\*\*- ovisi o visini balkona  
\*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 55.4  
French balcony without handrail - glass 55.4

760 mm < ML < 1160 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
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### Profili Profiles

F-1837	MH-10	2	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

311.007	MH-10	2	90-90
321.003	MH-10	2	90-90

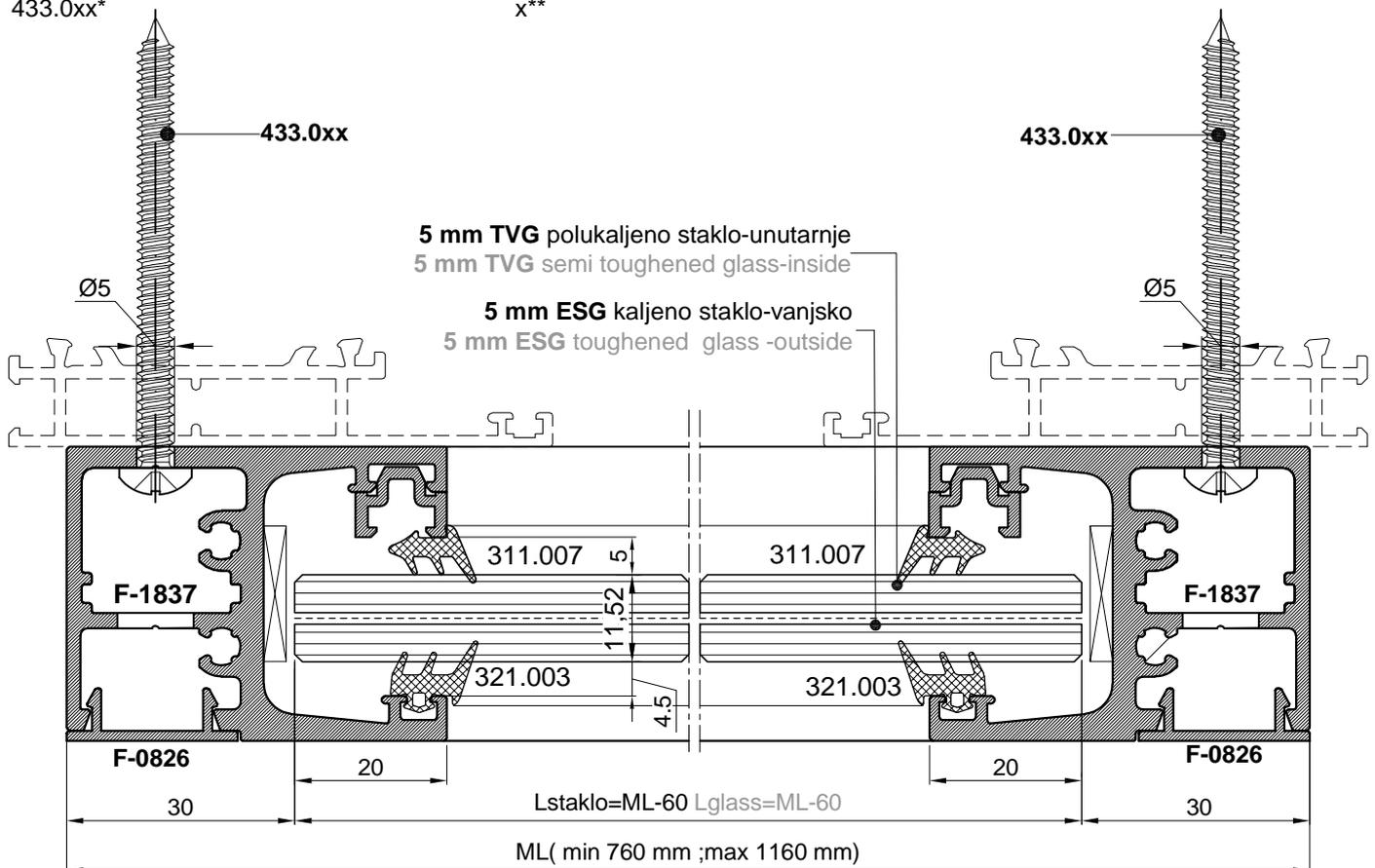
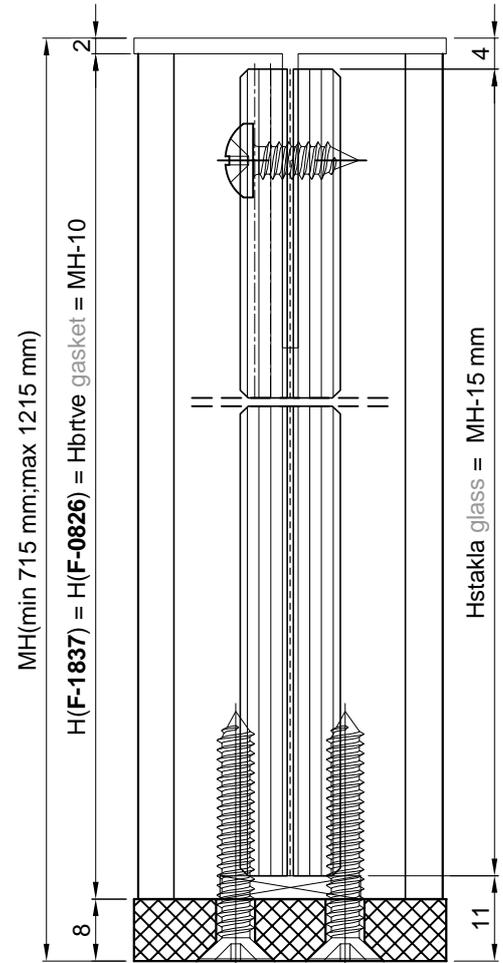
### Staklo Glass

55.4	ML-60 x MH-15	1	
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polukaljeno 5 mm +  
4 PVB 1,52 mm +  
kaljeno 5 mm  
semi toughened 5 mm +  
4 PVB 1,52 mm +  
toughened 5 mm

### Elementi Elements

521.499	2
521.501	2
370.000	6
433.133	4
433.042	2
433.0xx*	x**



\*- ovisi o profilu na koji se montira \*\*- ovisi o visini balkona  
\*- depends upon the mounting profile \*\*- depends upon balcony height

Francuski balkon bez rukohvata - staklo 55.4  
French balcony without handrail - glass 55.4

1500 mm < ML < 2300 mm  
716 mm < MH < 1216 mm

naziv/kod name/code	mjera dimension	kom. pcs.	pilanje sawing angle
------------------------	--------------------	--------------	-------------------------

### Profili Profiles

F-1837	MH-10	2	90-90
F-1838	MH-10	1	90-90
F-0826	MH-10	2	90-90

### Brtve Gaskets

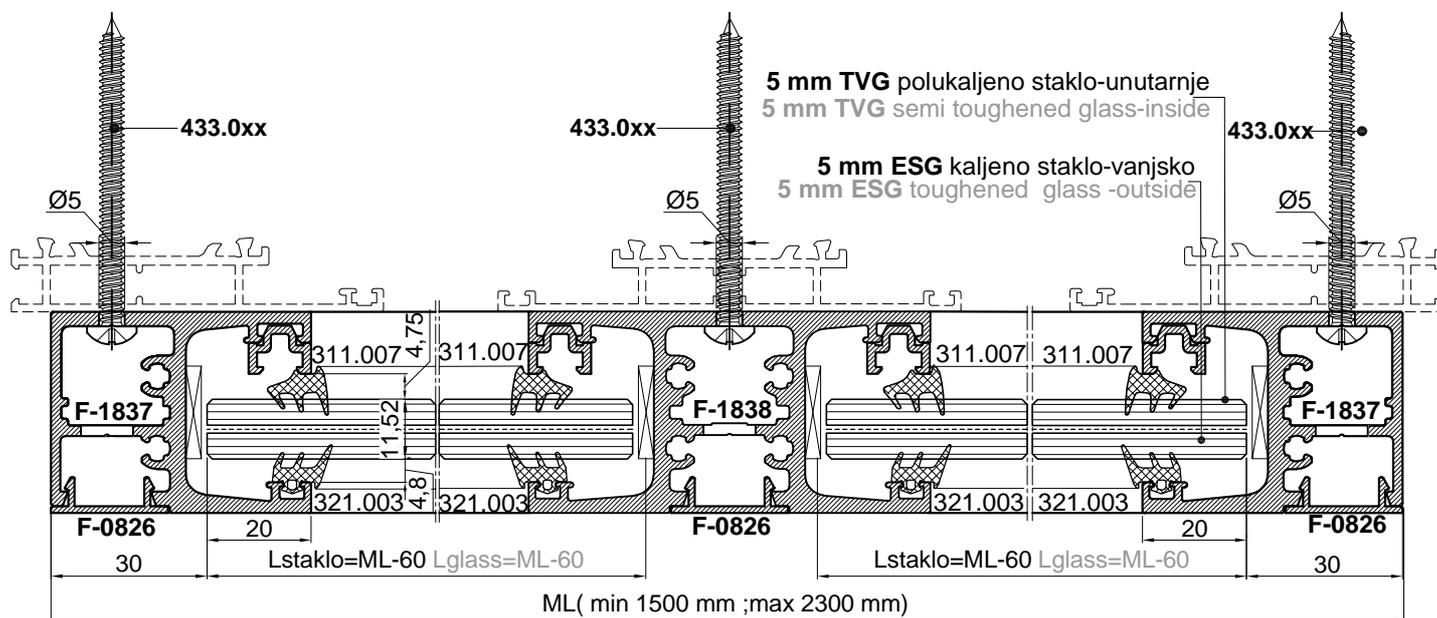
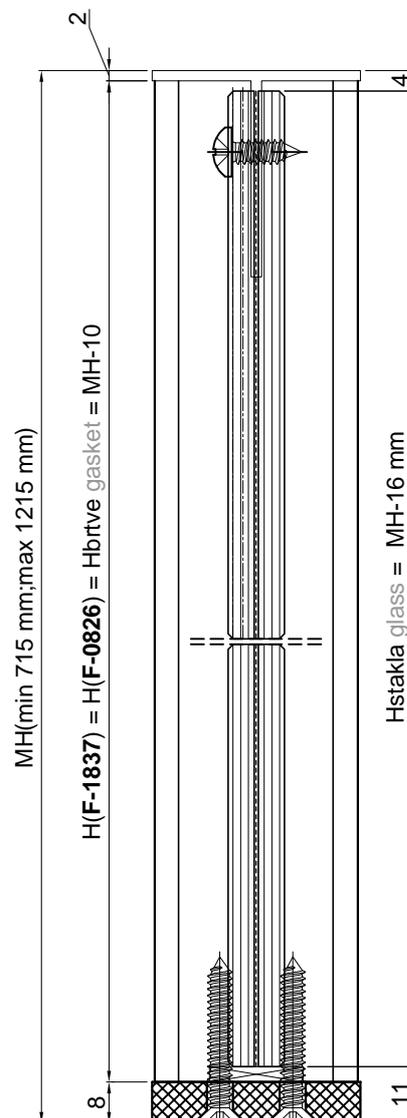
311.007	MH-10	4	90-90
321.003	MH-10	4	90-90

### Staklo Glass

55.4	ML-60 x MH-15	2
polukaljeno 5 mm + 4 PVB 1,52 mm + kaljeno 5 mm semi toughened 5 mm + 4 PVB 1,52 mm + toughened 5 mm		

### Elementi Elements

521.499	2
521.500	1
521.501	1
521.502	6
370.000	12
433.133	8
433.042	3
433.0xx*	x**



\*- ovisi o profilu na koji se montira

\*- depends upon the mounting profile

\*\*- ovisi o visini balkona

\*\*- depends upon balcony height



# FEAL

## FB 50

Travanj 2025. / April 2025

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