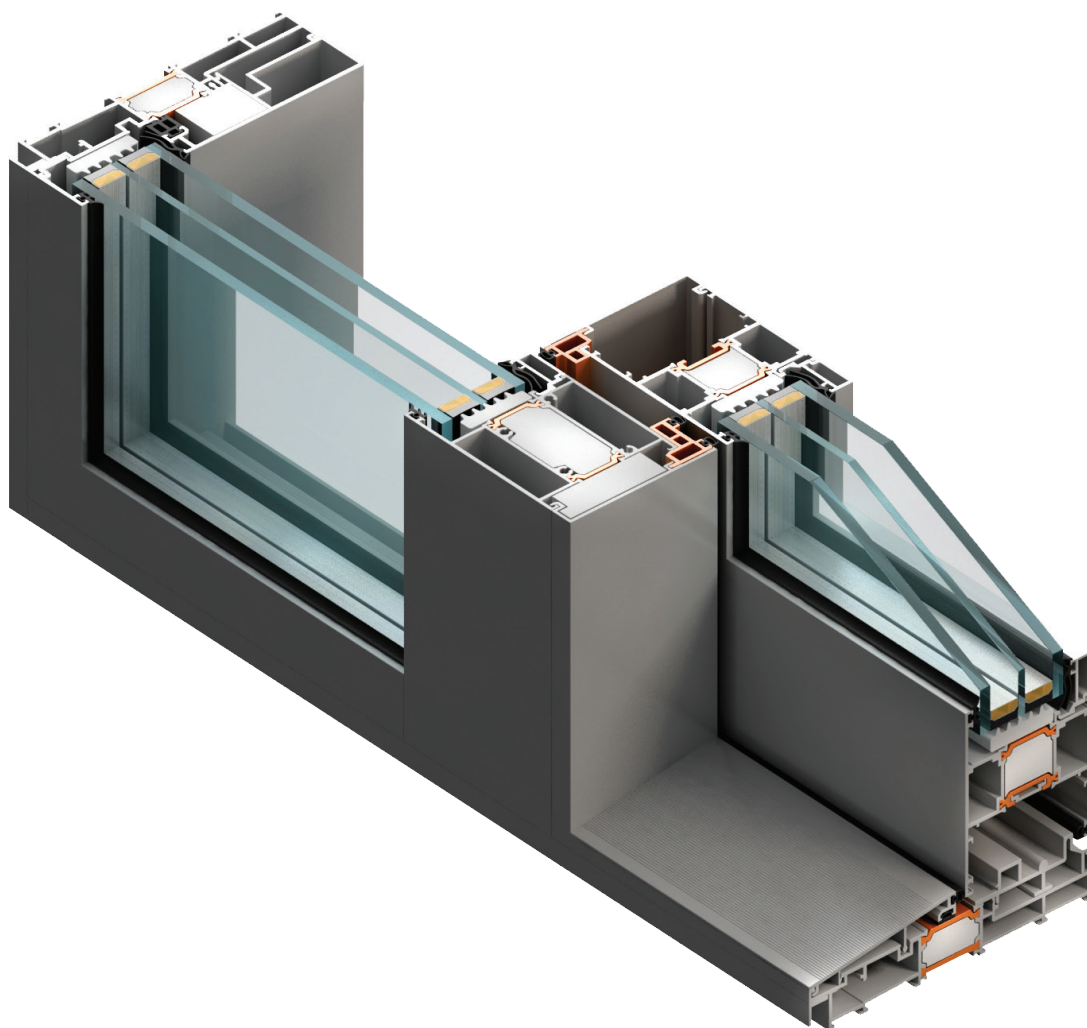


FEAL



INOWA

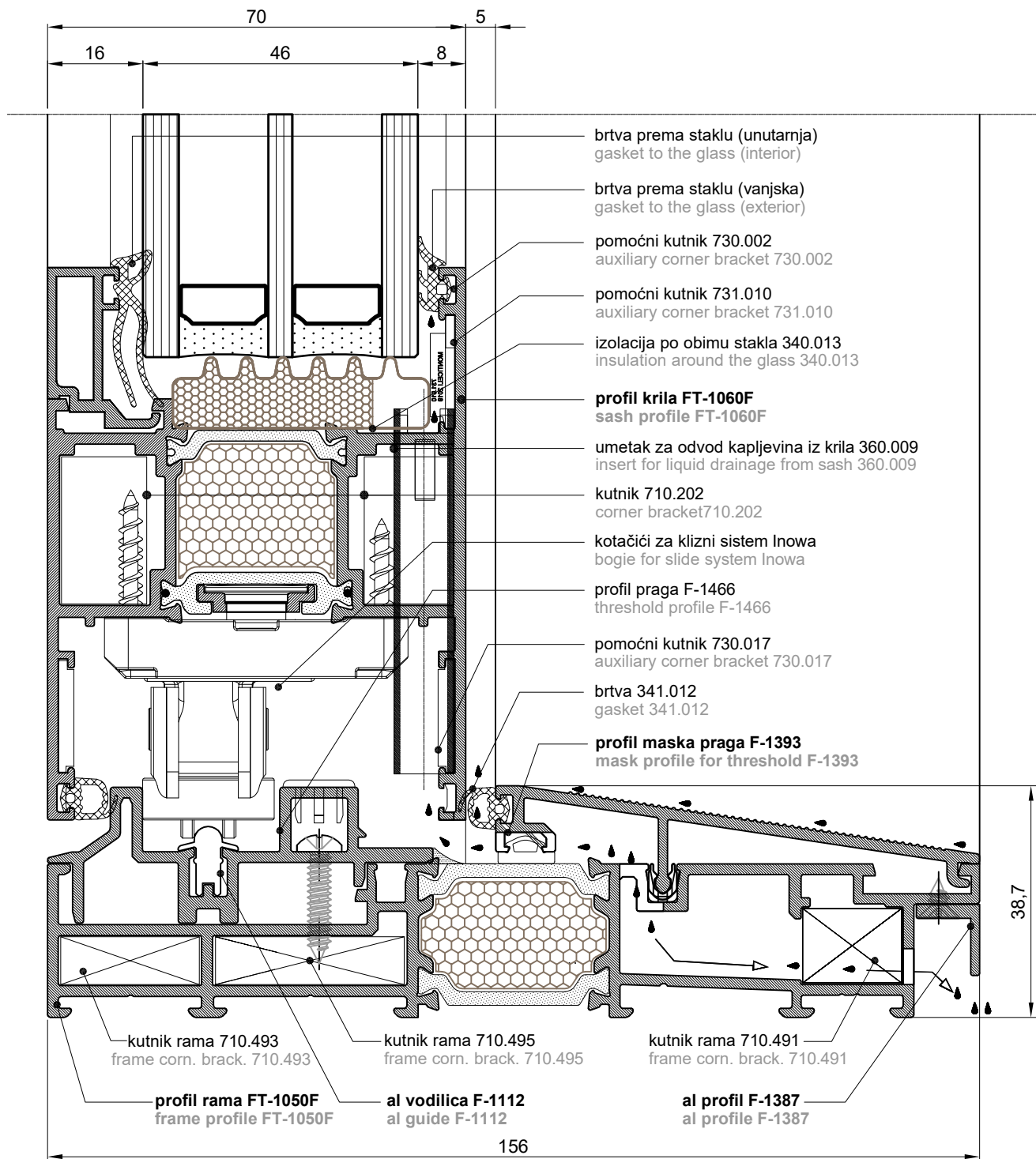
KLIZNA VRATA
SLIDE DOORS

SADRŽAJ CONTENT

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01	SYSTEM CHARACTERISTICS	405.00.01
02	ISPITIVANJA I CERTIFIKATI	405.01.01
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13	CUTTING LIST	405.12.01

Značajke sistema

System characteristics



OPIS SISTEMA INOWA INOWA SYSTEM DESCRIPTION

Sistem INOWA koristi se za izradu otklopno-kliznih vrata (Shema A-jedno krilo otklopno klizno i jedno fiksno, Shema C-dva srednja krila otklopno klizna a bokovi fiksni, Shema K-bokovi otklopno klizni a sredina fiksna).

Profili su izvedeni s prekinutim toplinskim mostom osnovne ugradbene dubine rama 156 mm, dubine krila 70 mm.

Prekid toplinskog mosta postiže se poliamidnim trakama (32 mm za ram i 30 mm za krilo).

Radi poboljšanja toplinskih karakteristika (smanjenja toplinske provodljivosti) u komore profila se ugrađuju trake od ekstrudiranog polistirena (XPS-a).

U kombinaciji s troslojnim staklom i odgovarajućim distancerom stakla sistem može postići ukupni koeficijent prolaska topline $U_d=1.1$ [W/m²K].

Brtvljenje između krila i rama izvedeno je EPDM brtvama.

Staklo je u krilu učvršćeno unutarnjim letvicama te zabrtvljeno EPDM brtvama s obje strane.

Okov je sistemski proizvođača Roto.

System INOWA is used to production for tilt&slide doors (Scheme A -one sash is tilt&slide and the other one is fixed, Scheme C -two middle sash are tilt&slide and borders are fixed, Scheme K -borders are tilt&slide and the middle is fixed).

Profiles include thermal break with basic embedded frame depth of 156 mm, sash depth 70 mm. Thermal break is achieved by using polyamide tapes (32 mm for frame and 30 mm for sash).

Extruded polystyrene tapes (XPS) are embedded in profile chambers to improve thermal characteristics (thermal conductivity reduction).

In combination with three-layered glass and fitting glass spacer, system can achieve total thermal transmittance of $U_d=1.1$ [W/m²K].

Sash and frame sealing is done by using EPDM gaskets.

Glass inside the sash is secured by using interior slats and sealed by using EPDM gaskets on both sides.

Hardware is systematically manufactured by Roto.

Karakteristike sistema:

-materijal	EN AW-6060
-masa krila	max.400 kg
-debljina stakla	do 46 mm
-materijal za brtvljenje (EPDM)	DIN 7863
-zrakopropusnost	EN 12207 (klasa 4)
-vodonepropusnost	EN 12208 (klasa E1050)
-otpornost na udar vjetra	EN 12210 (klasa C5/B5)
-proračun U_d koeficijenta	DIN EN ISO 10077-2
-površinska obrada	DIN 17611
-kontrola kvalitete	DIN EN ISO 9001

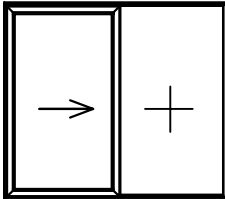
Karakteristike sistema:

-material	EN AW-6060
-sash mass	max.400 kg
-glass thickness	do 46 mm
-sealing material (EPDM)	DIN 7863
-air permeability	EN 12207 (klasa 4)
-water tightness	EN 12208 (klasa E1050)
-wind resistance	EN 12210 (klasa C5/B5)
- U_d coefficient calculation	DIN EN ISO 10077-2
-surface processing	DIN 17611
-quality control	DIN EN ISO 9001

Ispitivanja i certifikati

Testings and certificates

ISPITIVANJA I CERTIFIKATI U SISTEMU INOWA
TESTING AND CERTIFICATES IN SYSTEM INOWA

Vrsta ispitivanja Type testing	
Zrakopropusnost Air permeability (EN12207)	Class 4
Vodonepropusnost Watertightness (EN 12208)	Class E1050
Otpornost na vjetar Resistance to wind (EN 12210)	Class C5/B5
Protuprovalnost Protection against burglary (EN 1627)	RC2

Proračun koeficijenta prolaza topline
Calculation of thermal transmittance

<http://termika.feal.ba/>



Evidence of Performance

Air permeability, Watertightness, Resistance to wind load



Test Report

No 16-001814-PR04

(PB-A01-02-en-01)

Client	FEAL d.o.o. Trnska cesta 146 88220 Siroki Brijeg Bosnia-Herzegovina
Product	Sliding door, scheme A
Designation	System designation: INOWA
Performance-relevant product details	Material: Aluminium profiles with thermal break
Overall dimensions (W x H)	2,714 mm x 2,272 mm
Special features	Test sequence.

Basis

EN 14351-1:2006+A1:2010

Test standard/s:

EN 1026:2000-06

EN 1027:2000-06

EN 12211:2000-06

Correspond/s to the national standard/s (e.g. DIN EN)

Representation



Instructions for use

The manufacturer is allowed to use the results obtained for preparing a Declaration of Performance in accordance with the Construction Products Regulation 305/2011/EC. Observe the specifications set out by the applicable product standard.

Validity

The data and results refer solely to the tested and described specimen. Classification remains valid as long as the product and the above basis remain unchanged. The results can be extrapolated under the manufacturer's own liability subject to observance of the relevant specifications set out by the applicable product standard. This test/evaluation does not allow any statement to be made on any further characteristics regarding performance and quality of the construction presented, in particular the effects of weathering and ageing were not taken into account.

Notes on publication

The ift-Guidance Sheet

"Advertising with ift test documents" applies. The cover sheet can be used as an abstract.

The report contains a total of 27 pages.

Results

Air permeability according to EN 12207:1999-11



Class 4

Watertightness according to EN 12208:1999-11



Class E1050

Resistance to wind load

according to EN 12210:1999-11/AC:2002-08



Class C5 / B5

ift Rosenheim

02.09.2016

Andreas Graf, MSc, Dipl.-Ing. (FH)
Deputy Head of Testing Department
Construction Product Testing

Thomas Krichbaumer
operating testing officer
Construction Product Testing

Annex 1: Representation of product/test specimen

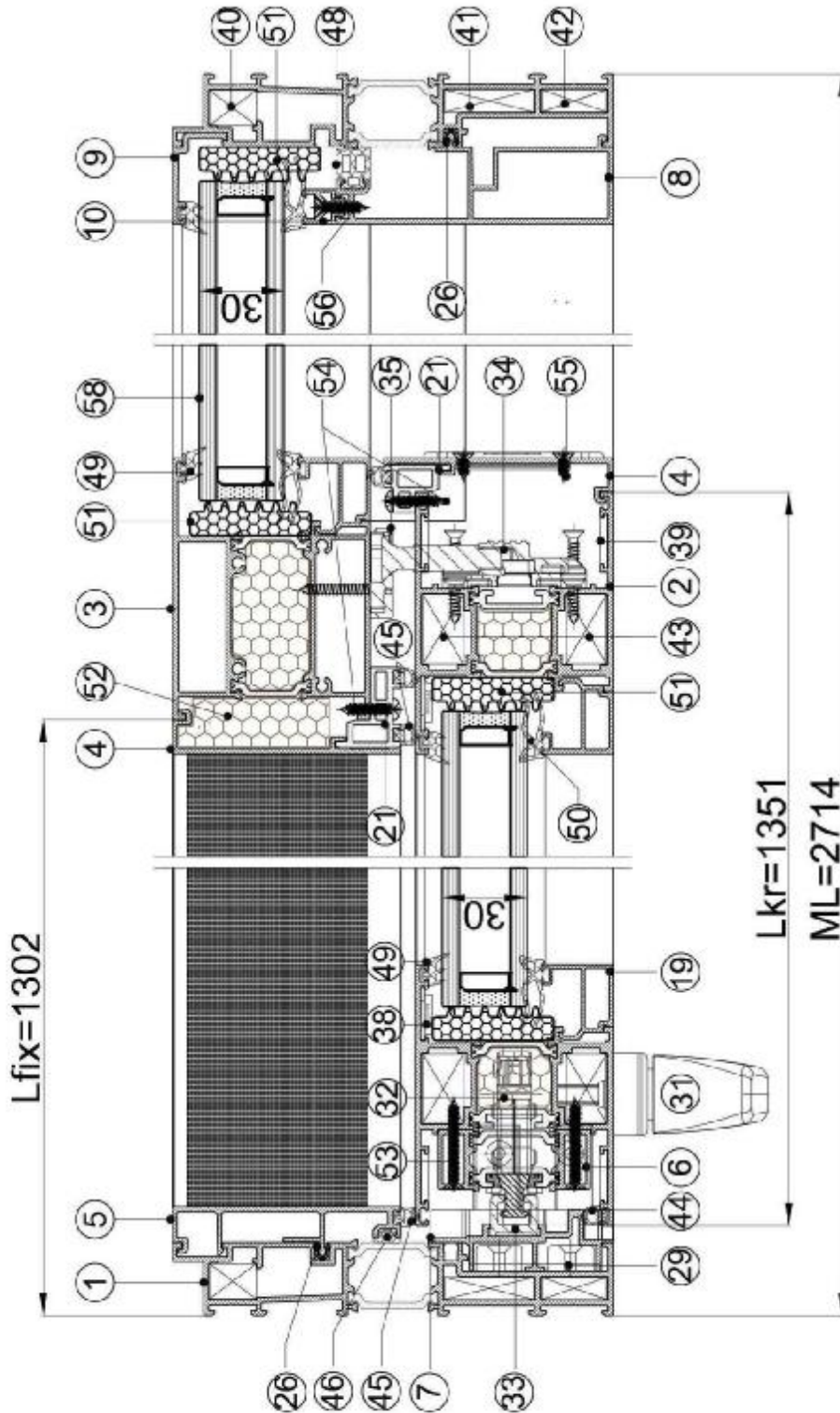
Page 2 of 10

Evidence of Performance

Air permeability, Watertightness, Resistance to wind load

Test Report 16-001814-PR04 (PB-A01-02-en-01) dated 02.09.2018

Client: FEAL d.o.o., 88220 Siroki Brijeg (Bosnia-Herzegovina)



Drawing 2
Horizontal section

Annex 1: Representation of product/test specimen

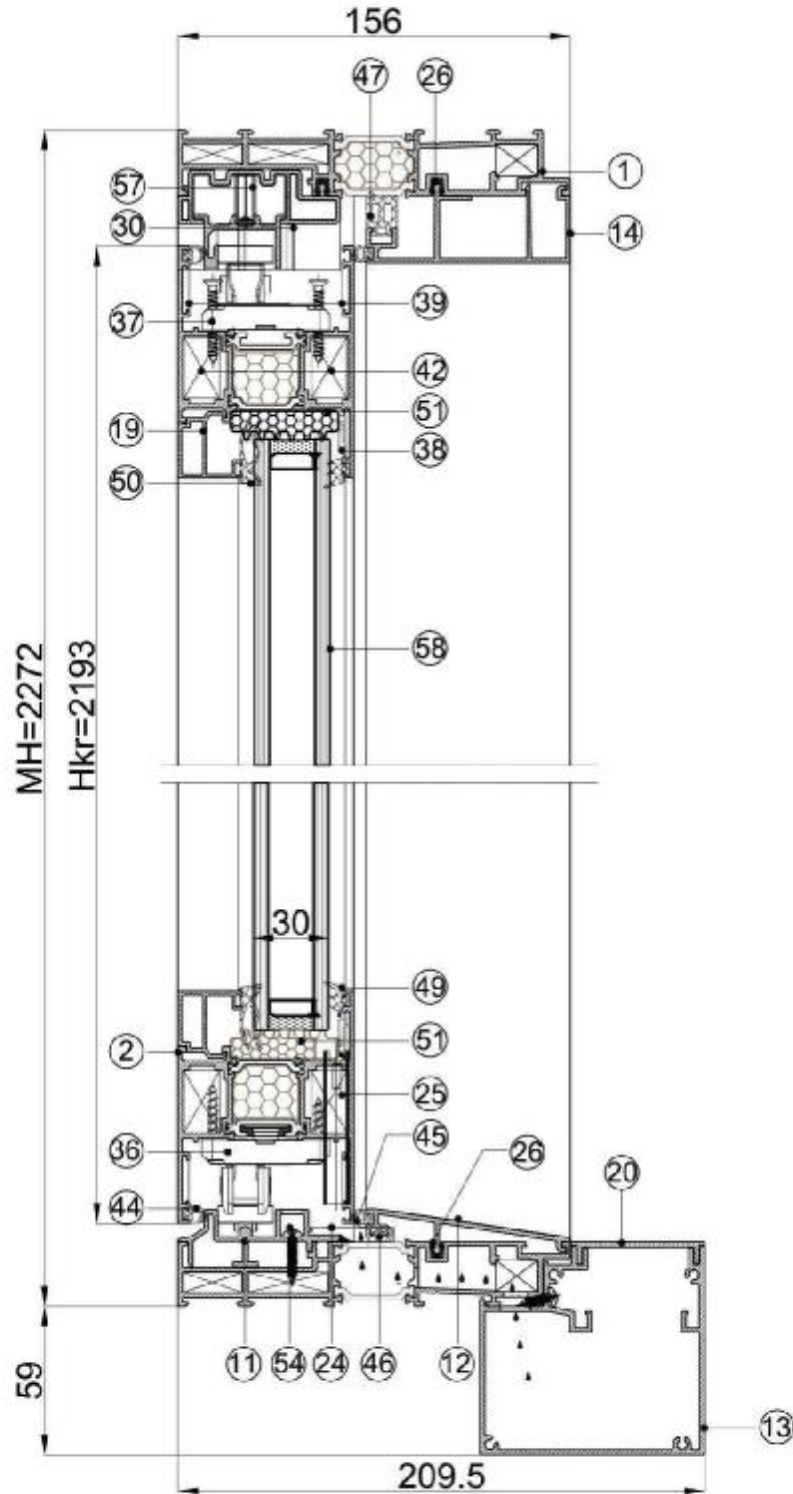
Page 3 of 10

Evidence of Performance

Air permeability, Watertightness, Resistance to wind load

Test Report: 16-001814-PR04 (PB-A01-02-en-01) dated 02.09.2016

Client: FEAL d.o.o., 88220 Siroki Brijeg (Bosnia-Herzegovina)



Drawing 3
Vertical section - sash

Annex 1: Representation of product/test specimen

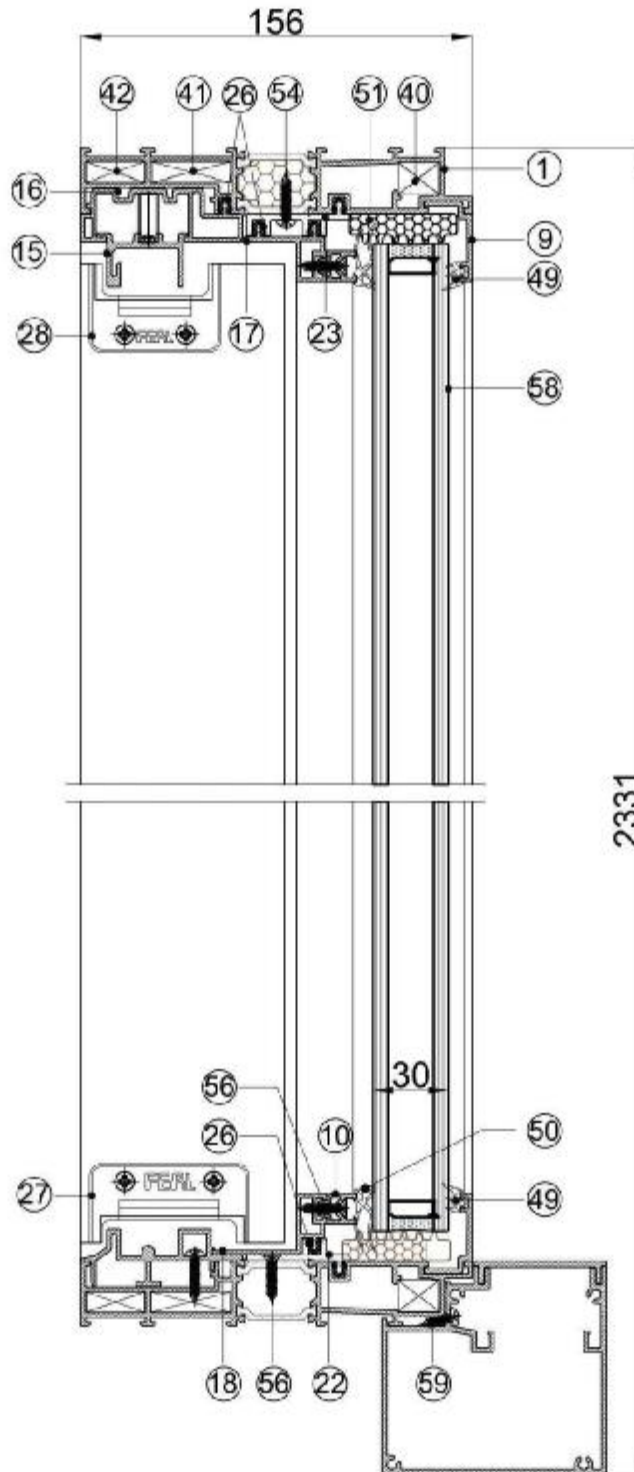
Page 4 of 10

Evidence of Performance

Air permeability, Watertightness, Resistance to wind load

Test Report: 16-001814-PR04 (PB-A01-02-en-01) dated 02.09.2016

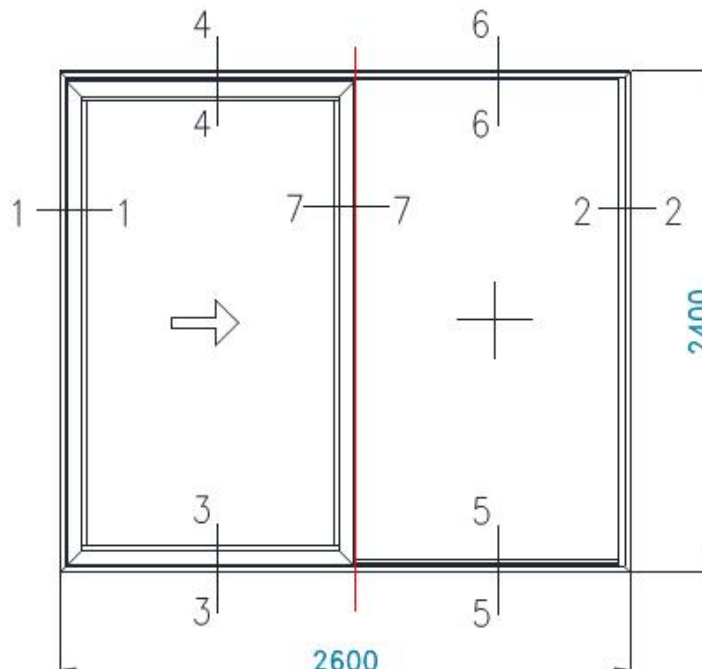
Client: FEAL d.o.o., 88220 Siroki Brijeg (Bosnia-Herzegovina)



Drawing 4
Vertical section – fixed light

Toplotni proračun prijelaza topline -Uw

Seriya:	Inowa	Opis:	Klizno sa integriranim fiksniim dijelom
Materijal:	Al. profila sa prekinutim termičkim mostom	Dimenzije:	Širina L= 2600mm Visina H= 2400mm
Normativi za proizvod:	EN 14351-1	Normativi za proračun:	EN ISO 10077-1 EN ISO 10077-2
Staklena ispuna Ug (W/m2K)	Distancer stakla ψ (W/mK)	Presjeci Uf1;Uf2;Uf3;Uf4;Uf5; Uf6;Uf7 (W/m2K)	Ukupno Uw (W/m2K)
0.7	0.045	2.9; 3.6; 3.0; 3.0; 3.9; 3.6; 2.5	1.2



Nachweis Berechnung des Wärmedurchgangskoeffizienten

Prüfbericht
Nr. 16-000166-PR16
(PB-K20-06-de-01)



Auftraggeber FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg
Bosnia-Herzegovina

Grundlagen *)

EN ISO 10077-2:2012-02
SG 06-verpflichtend
NB-CPD/SG05/11/083 2011-09
*) und entsprechende nationale Fassungen
(z.B. DIN EN)

Produkt Thermisch getrenntes Metallprofil eines Schiebesystems
Profilkombination: Flügelrahmen-Blendrahmen

Darstellung



Bezeichnung System: Inowa
Lieferbezeichnung: FT-1050; FT-1060

Leistungsrelevante Produktdetails Material Aluminiumlegierung; Ansichtsbreite B in mm 124; Dämmstege; Material Polyamid 6.6 mit 25 % Glasfasern; Stegdicke in mm 1.6 / 2.0; Abstand der Metallschalen d in mm 25 / 27; Einlageschaum in der Dämmzone; Material Polystyrol Hartschaum „XPS (Dicke bis 60 mm)“; Wärmeleitfähigkeit in W/(m K) 0,034; Einlageschaum im Glasfalz; Material Polyethylen Hartschaum „XPE“; Wärmeleitfähigkeit in W/(m K) 0,038; Flügelrahmen; Breite in mm 92,5; Dicke in mm 70; Ebene innere Schiene; Blendrahmen; Breite in mm 38,5; Dicke in mm 156; Ersatzpaneel; Einstand in mm 15; Dicke in mm 46

Verwendungshinweise

Die ermittelten Ergebnisse können für den Nachweis entsprechend den oben angegebenen Grundlagen verwendet werden.

Besonderheiten -

Ergebnis

Berechnung des Wärmedurchgangskoeffizienten nach
EN ISO 10077-2:2012-02



$$U_f = 2,9 \text{ W/(m}^2\text{K)}$$

Gültigkeit

Die genannten Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Probekörper.

Diese Prüfung ermöglicht keine Aussage über weitere leistungs- und qualitätsbestimmende Eigenschaften der vorliegenden Konstruktion.

Veröffentlichungshinweise

Es gilt das "Merkblatt zur Benutzung von ift-Prüfprotokollen". Das Deckblatt kann als Kurzfassung verwendet werden.

Inhalt

Der Nachweis umfasst insgesamt 7 Seiten und Anlage (1 Seite).

ift Rosenheim
24.06.2016

Manuel Demel

Manuel Demel, M.B.P. Dipl.-Ing. (FH)
Stv. Prüfstellenleiter
Bauphysik

Maurice Mayer

Maurice Mayer, Dipl.-Ing. (FH)
Prüfingenieur
Bauphysik

Berechnung des Wärmedurchgangskoeffizienten U_f auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830

Protokoll 16-000166-PR17



Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärmetechnisches Verhalten von Fenstern, Türen und Abschlüssen - Berechnung des Wärmedurchgangskoeffizienten
Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleitf. W/mK	Emission Oberfläche
Yellow	Calibration Panel EN ISO 10077-2	0,035	0,9
Pink	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
Green	XPE	0,038	0,9
Dark Green	XPS (Thickness up to 60 mm)	0,034	0,9
Brown	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
Blue	Aluminium alloy - anodised - painted - powder coated	160	0,9



Wärmedurchgangskoeffizient

$$U_f = 3,6 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schlebelementen, Verschraubung).

Dr. Joachim Hessinger
ift Rosenheim
1.9.2016

Manuel Demel
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1.9.2016

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Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021



Berechnung des Wärmedurchgangskoeffizienten U_f auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830

Protokoll 16-000166-PR20



Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

Produkt
Flügelrahmen-Blendrahmen Schiebesystem Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 125.5
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Blendrahmen
Profilquerschnitt, Dicke in mm: 156

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärme technisches Verhalten von Fenstern, Türen und Abschlüssen – Berechnung des Wärmedurchgangskoeffizienten Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleitf. W/mK	Emission Oberfläche
Yellow	Calibration Panel EN ISO 10077-2	0,035	0,9
Green	Aluminium alloy - anodised - painted - powder coated	160	0,9
Grey	Aluminium alloy - slightly oxidized (up to 5 µm)	160	0,3
Pink	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
Brown	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
Light Green	XPE	0,038	0,9
Dark Green	XPS (Thickness up to 60 mm)	0,034	0,9



Wärmedurchgangskoeffizient

$$U_f = 3,0 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schiebeelementen, Verschraubung).

Dr. Joachim Hessinger
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7.9.2016

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7.9.2016

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Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021



Berechnung des Wärmedurchgangskoeffizienten U_f auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830

Protokoll 16-000166-PR21



Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

Produkt
Flügelrahmen-Blendrahmen Schiebesystem Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 138.4
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Blendrahmen
Profilquerschnitt, Dicke in mm: 156

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärme technisches Verhalten von Fenstern, Türen und Abschlüssen - Berechnung des Wärmedurchgangskoeffizienten
Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleit. WmK	Emission Oberfläche
	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
	Aluminium alloy - anodised - painted - powder coated	180	0,9
	XPE	0,038	0,9
	XPS (Thickness up to 50 mm)	0,034	0,9
	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
	Calibration Panel EN ISO 10077-2	0,035	0,9



Wärmedurchgangskoeffizient

$$U_f = 3,0 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schiebeelementen, Verschraubung).

Dr. Joachim Hessinger
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8.9.2016

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8.9.2016

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Prüfung und Kalibrierung – EN ISO/IEC 17025
Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021



Berechnung des Wärmedurchgangskoeffizienten U_f auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830

Protokoll 16-000166-PR19



Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärmetechnisches Verhalten von Fenstern, Türen und Abschlüssen - Berechnung des Wärmedurchgangskoeffizienten
Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleitf. W/mK	Emission Oberfläche
	Calibration Panel EN ISO 10077-2	0,035	0,9
	Aluminium alloy - anodised - painted - powder coated	160	0,9
	Aluminium alloy - slightly oxidized (up to 5 µm)	160	0,3
	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
	Polyvinyl Chloride (PVC-U) rigid	0,170	0,9
	XPE	0,038	0,9
	XPS (Thickness up to 60 mm)	0,034	0,9
	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9



Wärmedurchgangskoeffizient

$$U_f = 3,9 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schiebeelementen, Verschraubung).

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6.9.2016

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Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body 0757
POZ-Stelle: BAY 18



Berechnung des Wärmedurchgangskoeffizienten U_f

auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830

Protokoll 16-000166-PR18



Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

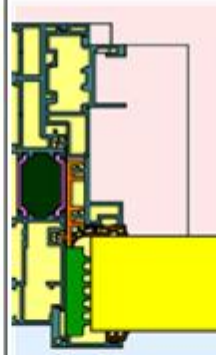
Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärmetechnisches Verhalten von Fenstern, Türen und Abschlüssen - Berechnung des Wärmedurchgangskoeffizienten
Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleitf. W/mK	Emission Oberfläche
	Calibration Panel EN ISO 10077-2	0,035	0,9
	XPE	0,038	0,9
	XPS (Thickness up to 60 mm)	0,034	0,9
	Aluminium alloy - anodised - painted - powder coated	160	0,9
	Polyvinyl Chloride (PVC-U) rigid	0,170	0,9
	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9



Wärmedurchgangskoeffizient

$$U_f = 3,6 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schiebeelementen, Verschraubung).

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Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021



Berechnung des Wärmedurchgangskoeffizienten U_f auf Grundlage der Überprüfung nach EN 14351-1 / EN 13830



Protokoll 16-000166-PR22

Protokollinhaber
FEAL d.o.o.
Trnska cesta 146
88220 Siroki Brijeg

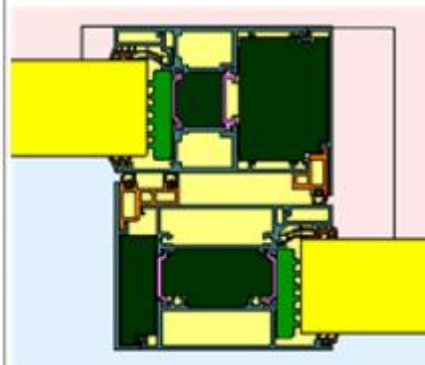
Produkt
Flügelrahmen-Flügelrahmen Schiebeselement Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 104.5
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46

Grundlagen

ift-Zertifizierungsprogramm „ift-zertifizierter Fachbetrieb zur Berechnung von Wärmedurchgangskoeffizienten“ – QM 339
ift-Zertifizierungs- und Überwachungsvertrag 588 6049971

EN ISO 10077-2 Wärmetechnisches Verhalten von Fenstern, Türen und Abschlüssen - Berechnung des Wärmedurchgangskoeffizienten
Teil 2: Numerisches Verfahren für Rahmen

Berechnungsquerschnitt



Erstellt von: Zovko, Mario

Randbedingungen Wärmeübergangswiderstand

Die Wärmeübergangswiderstände entsprechen den Vorgaben der EN ISO 10077-2.

Materialtabelle Wärmeleitfähigkeit / Emission

Die Wärmeleitfähigkeiten der verwendeten Materialien und deren Emissionen entsprechen der EN ISO 10077-2 bzw. EN ISO 10456.

Color	Material	Wärmeleitf. W/mK	Emission Oberfläche
Yellow	Calibration Panel EN ISO 10077-2	0,035	0,9
Blue	Aluminium alloy - anodised - painted - powder coated	160	0,9
Orange	Polyvinyl Chloride (PVC-U) rigid	0,170	0,9
Pink	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
Brown	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
Green	XPE	0,038	0,9
Dark Green	XPS (Thickness up to 60 mm)	0,034	0,9



Wärmedurchgangskoeffizient

$$U_f = 2,5 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Das ift Rosenheim bestätigt die Überprüfung der Grundlagen nach EN 14351-1 Anhang ZA.2 für die vom Hersteller eigenverantwortliche Berechnung für den Nachweis des Wärmedurchgangskoeffizienten U_f von Rahmenprofilen auf Basis eines bestehenden Zertifizierungs- und Überwachungsvertrages gemäß ift-Zertifizierungsprogramm QM 339.

Der Wärmedurchgangskoeffizient U_f des Rahmenprofils beinhaltet nicht den Einfluss von punktuellen Wärmebrücken (z.B. Beschlagstechnik, Rollmechanik von Schiebeelementen, Verschraubung).

Dr. Joachim Hessinger
ift Rosenheim
20.9.2016

Manuel Demel
ift Rosenheim
20.9.2016

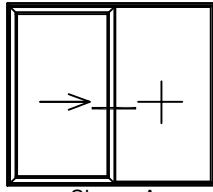
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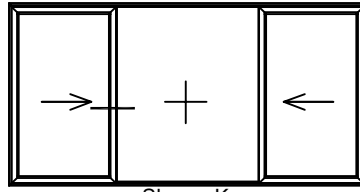


Dijagram veličina

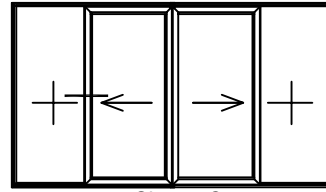
Dimension chart



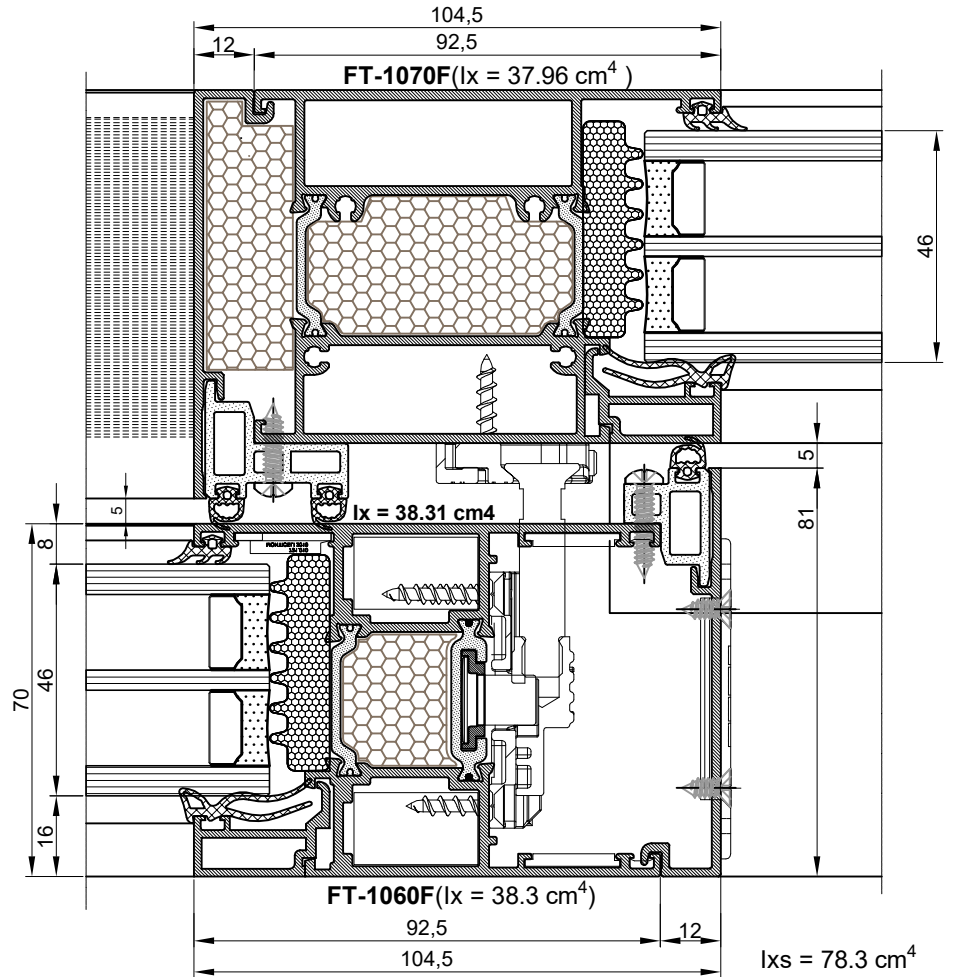
Shema A



Shema K

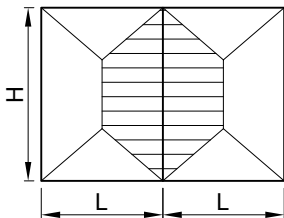


Shema C



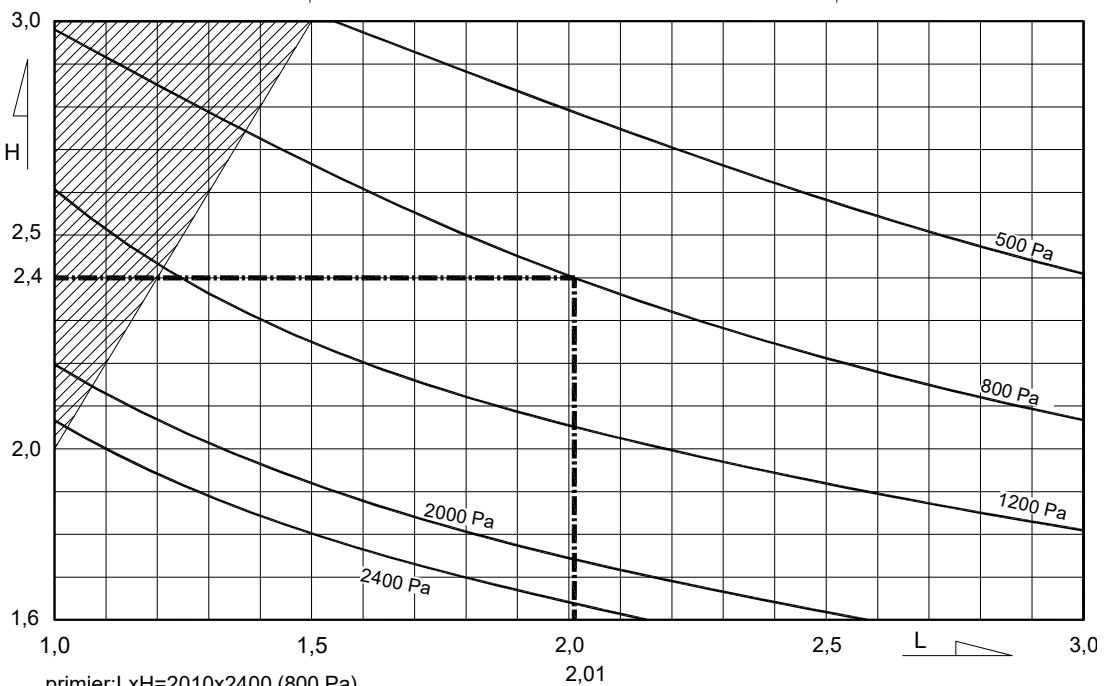
Max. omjer visine
i širine krila
 $H:L \leq 2.5$
Max. sash
height/width ratio
 $H:L \leq 2.5$

Nije dopušteno
Not allowed

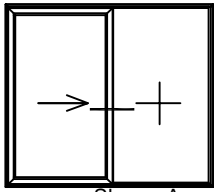


H= Visina krila
H= Sash height
L= Širina krila
L= Sash width

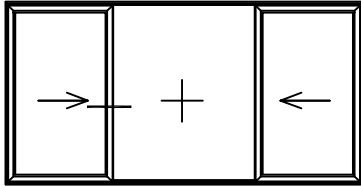
500 Pa ———
800 Pa ———
1200 Pa ———
2000 Pa ———
2400 Pa ———



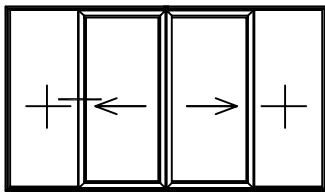
primjer: $L \times H = 2010 \times 2400$ (800 Pa)
example: $L \times H = 2010 \times 2400$ (800 Pa)



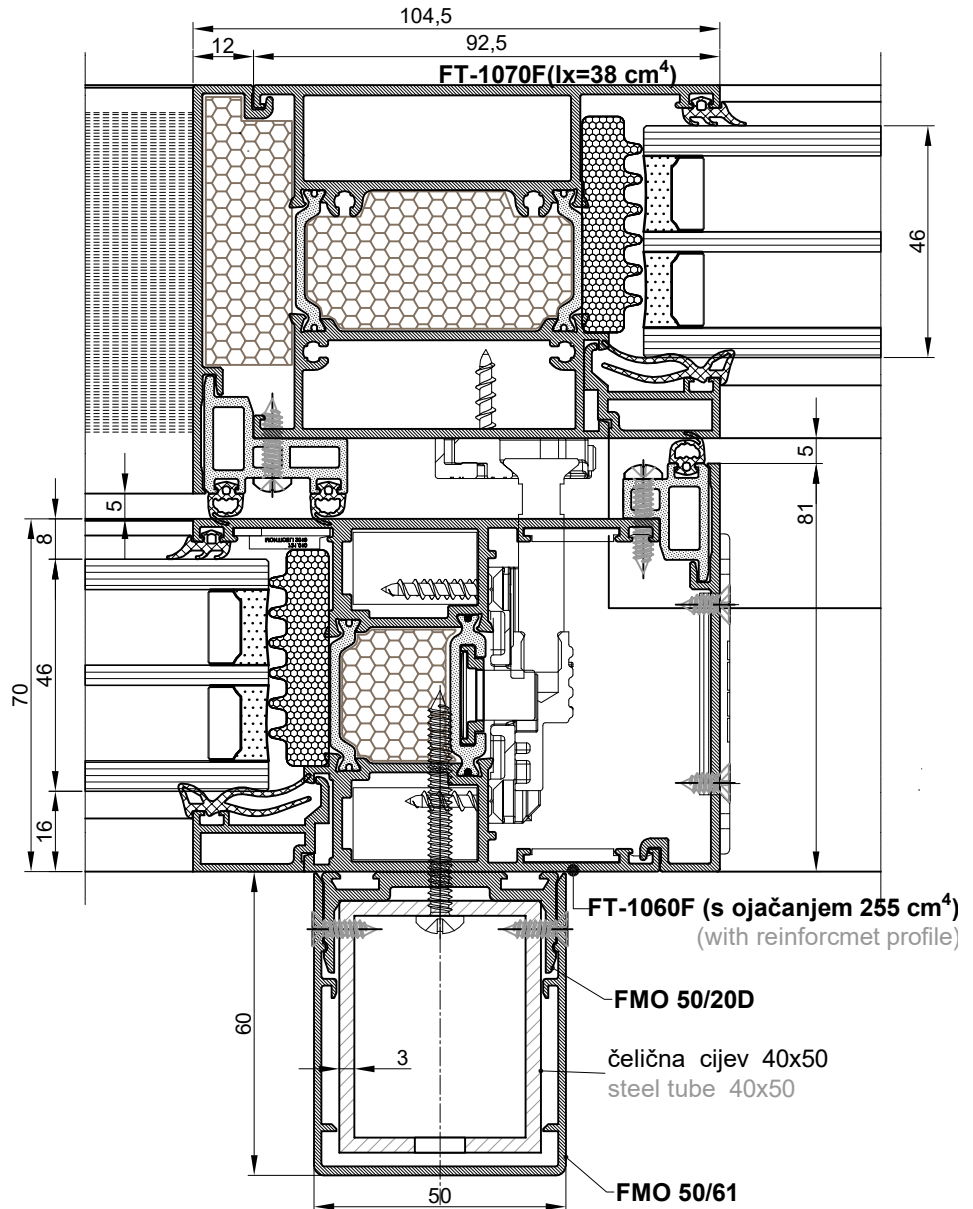
Schema A



Schema K



Schema C



Ukupan Ix = 293 cm⁴

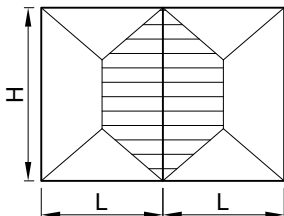
Max. omjer visine
i širine krila

H:L ≤ 2.5

Max. sash
height/width ratio

H:L ≤ 2.5

Nije dopušteno
Not allowed



H= Visina krila
H= Sash height

L= Širina krila
L= Sash width

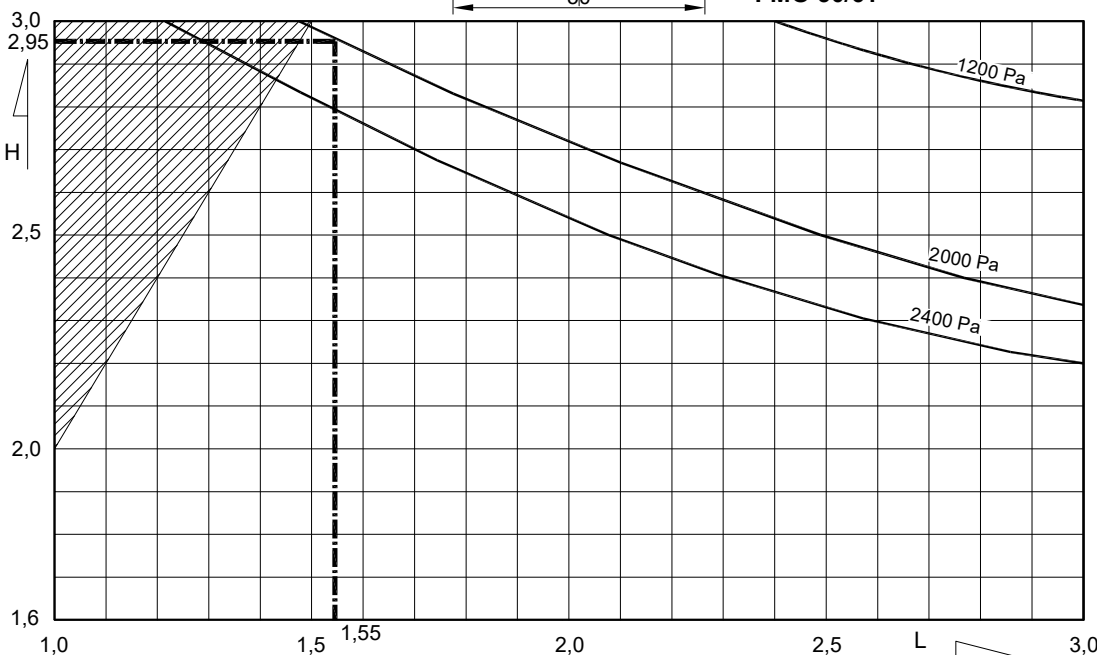
500 Pa ———

800 Pa ———

1200 Pa ———

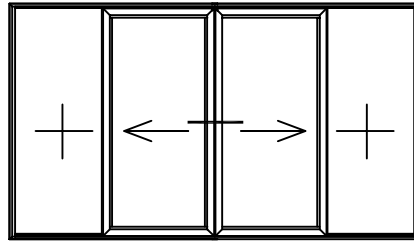
2000 Pa ———

2400 Pa ———

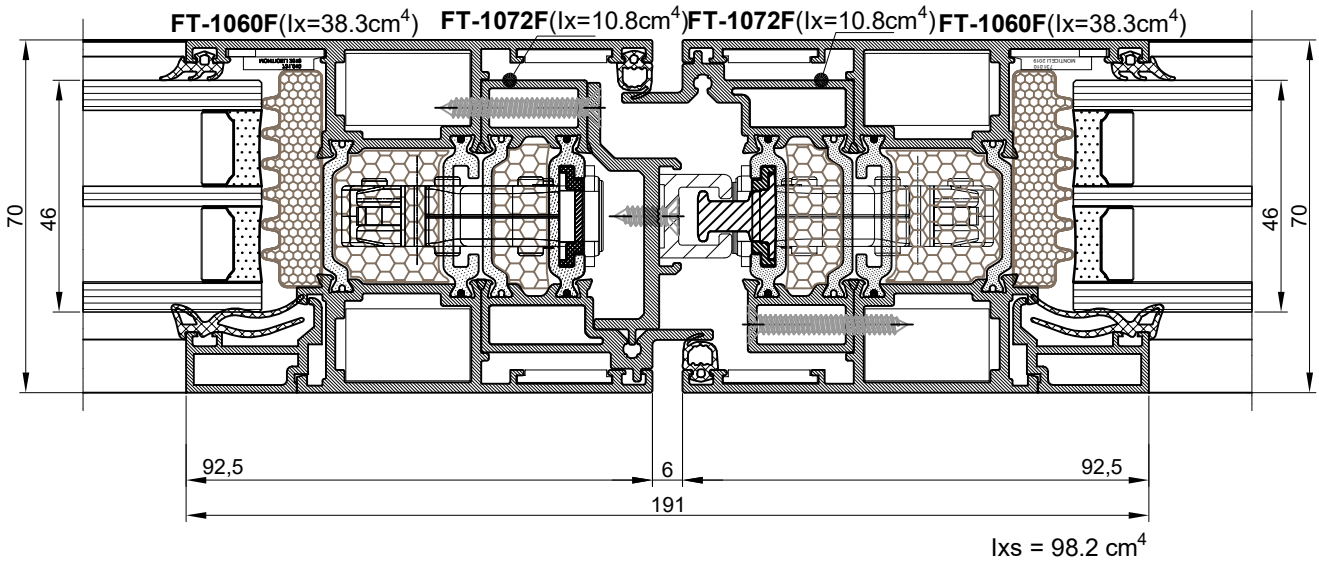


primjer: LxH=1550x2950 (2000 Pa)

example: LxH=1550x2950 (2000 Pa)

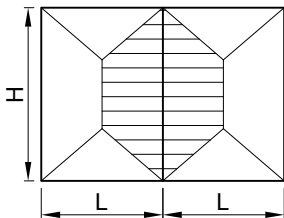


Schema C



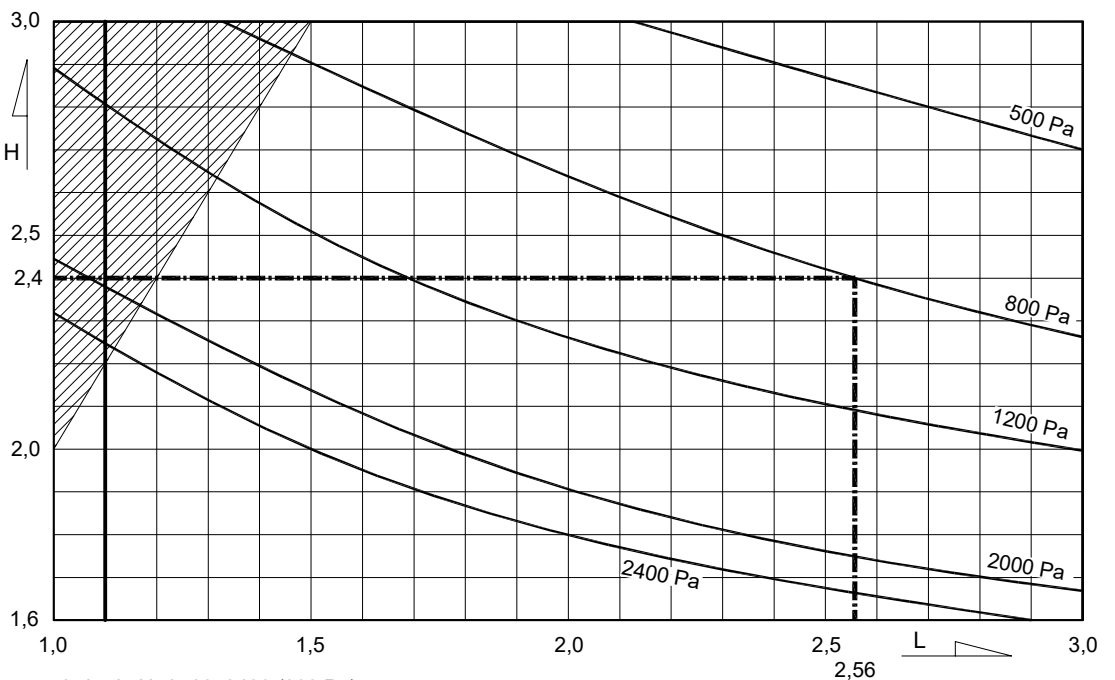
Max. omjer visine
i širine krila
 $H:L \leq 2.5$
 Max. sash
height/width ratio
 $H:L \leq 2.5$

Nije dopušteno
Not allowed

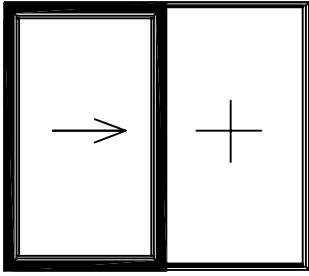


H= Visina krila
H= Sash height
 L= Širina krila
L= Sash width

- 500 Pa ———
- 800 Pa ———
- 1200 Pa ———
- 2000 Pa ———
- 2400 Pa ———



primjer: $L \times H = 2560 \times 2400$ (800 Pa)
 example: $L \times H = 2560 \times 2400$ (800 Pa)



-Dijagram nosivosti okova ovisno o težini krila

Širina krila Lk 600 -1500 mm
 Visina krila Hkr 1000-2500 mm
 Težina krila max.200 kg

Težina stakla max.60 kg/m²

Visina krila Hkr : Širina krila Lkr = max. 2:1

1 mm/m² debljine stakla =2.5 kg

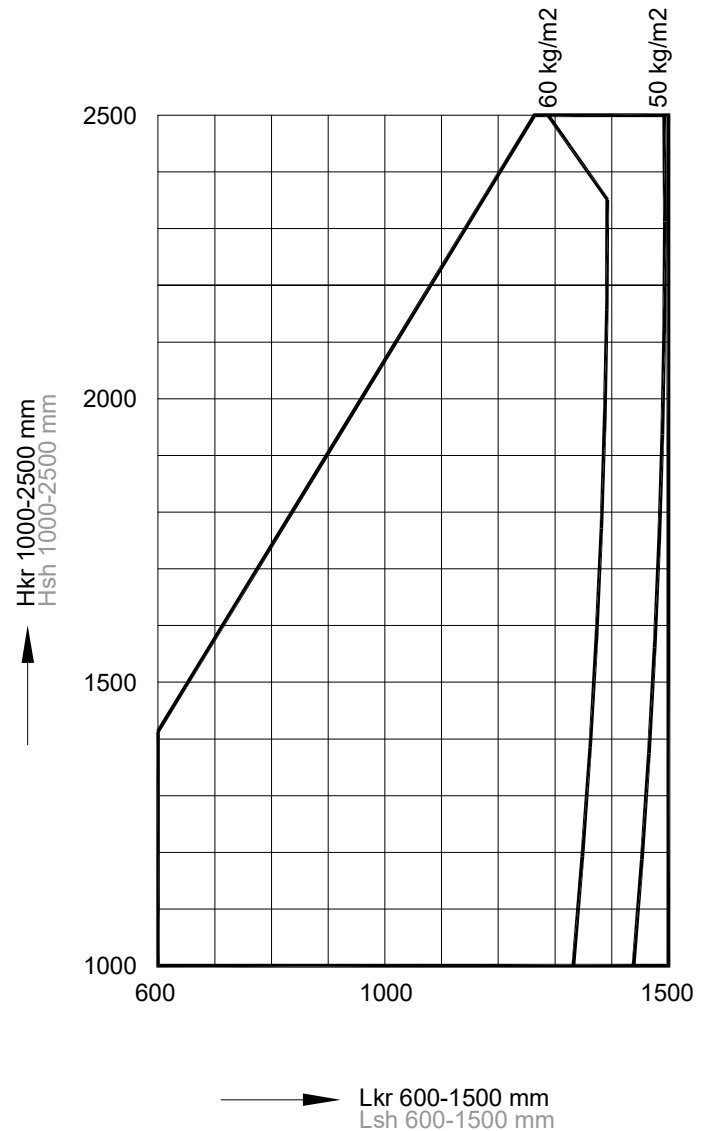
-Hardware load capacity chart depending on sash weight

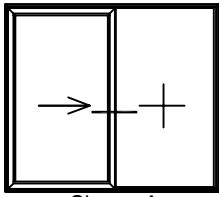
Sash width Lsh 600 -1500 mm
 Sash height Hsh 1000-2500 mm
 Sash weight max.200 kg

Glass weight max.60 kg/m²

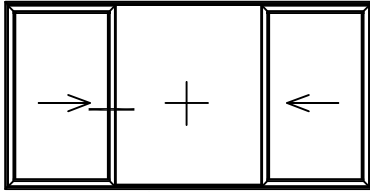
Sash height Hsh : Sash width Lsh = max. 2:1

1 mm/m² glass thickness =2.5 kg

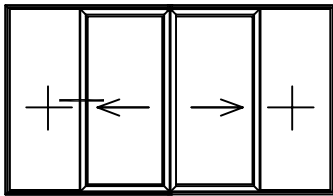




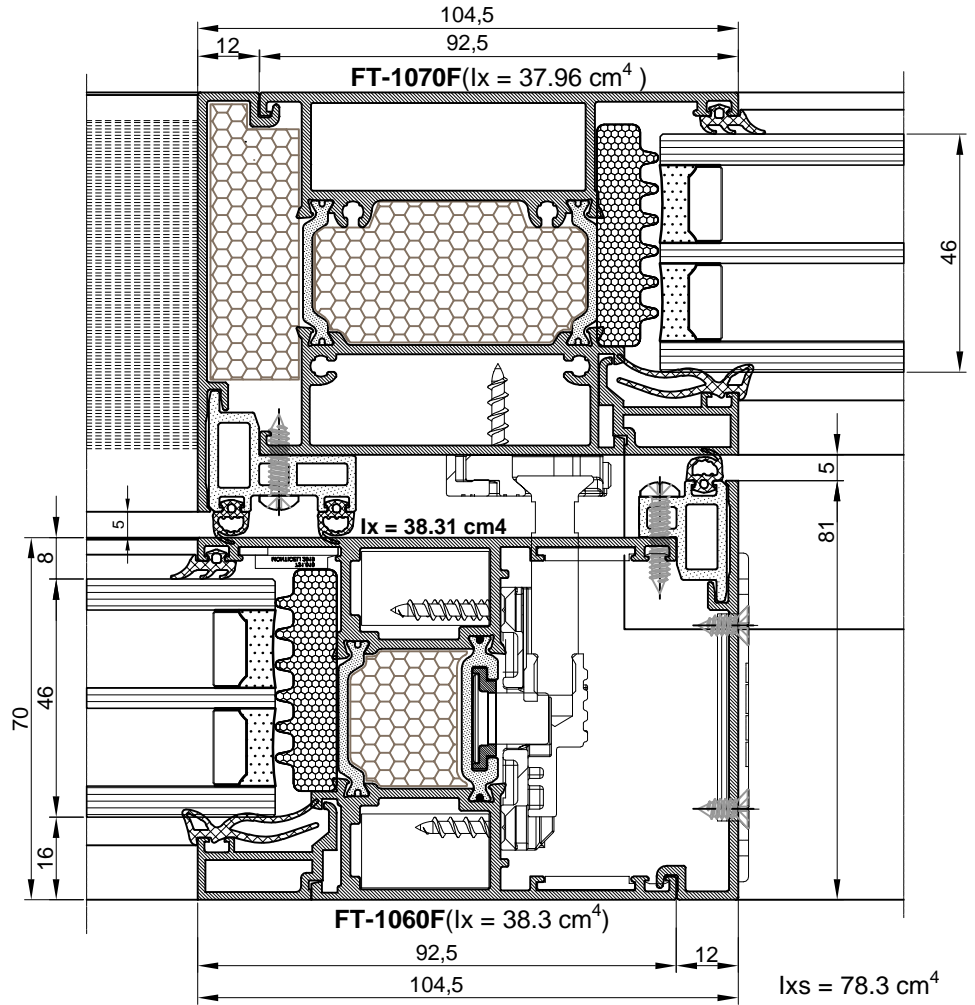
Schema A



Schema K

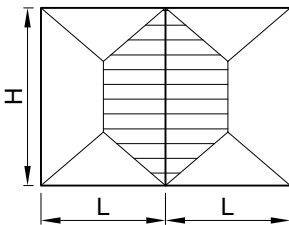


Schema C



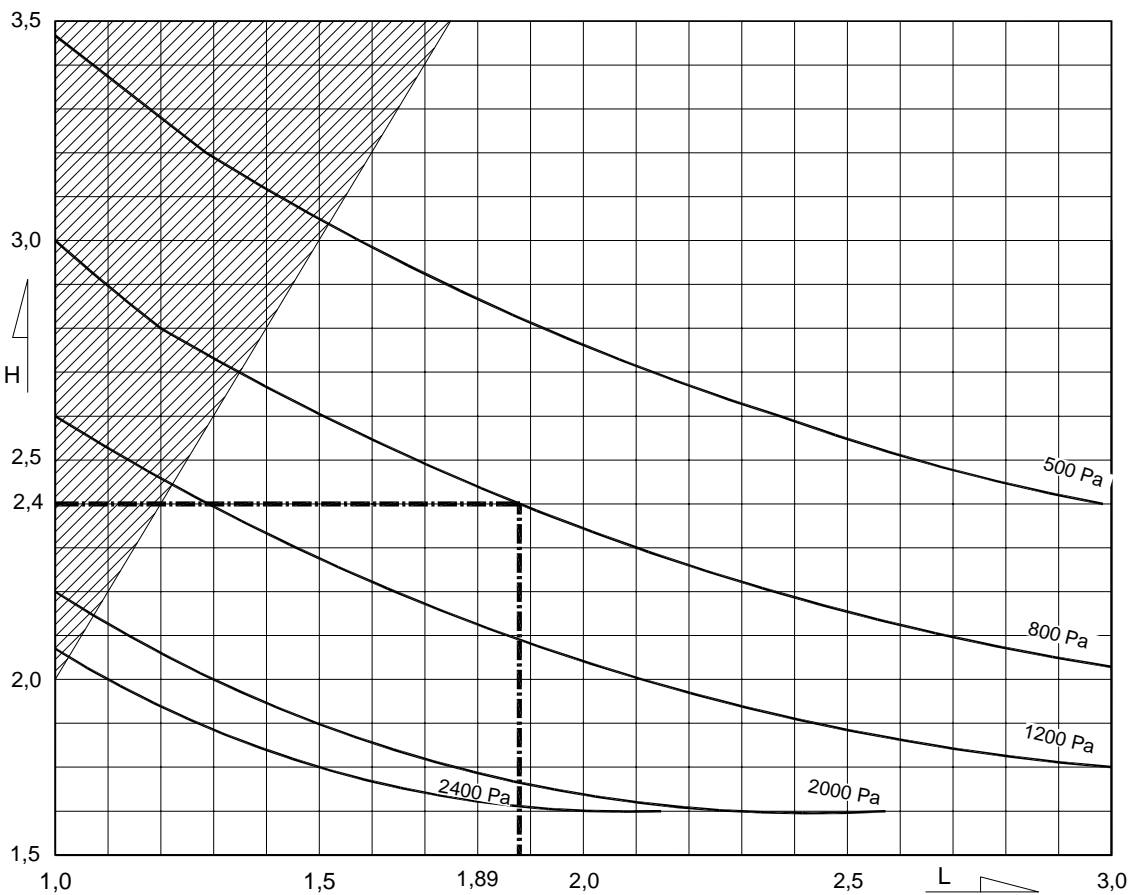
Max. omjer visine
i širine krila
 $H:L \leq 2$
Max. sash
height/width ratio
 $H:L \leq 2$

Nije dopušteno
Not allowed

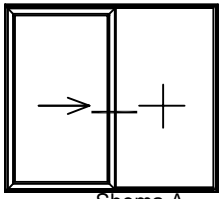


H= Visina krila
H= Sash height
L= Širina krila
L= Sash width

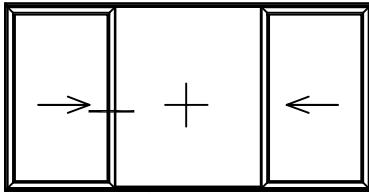
500 Pa ———
800 Pa ———
1200 Pa ———
2000 Pa ———
2400 Pa ———



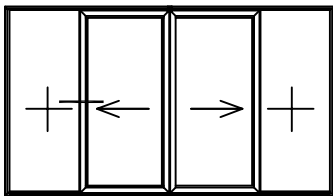
primjer: LxH=1890x2400 (800 Pa)
example: LxH=2010x2400 (800 Pa)



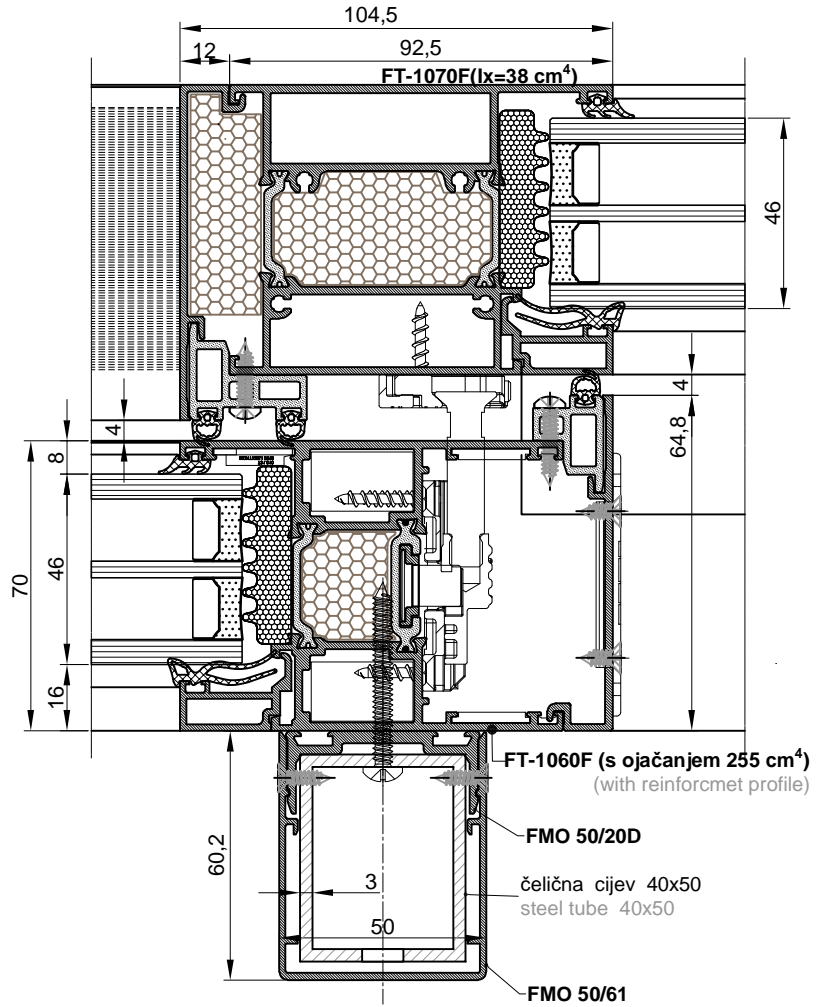
Schema A



Schema K



Schema C

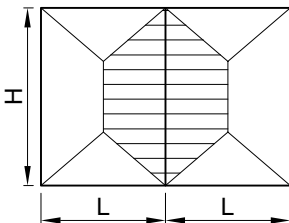


Ukupan lx = 293 cm⁴

Max. omjer visine i širine krila
H:L ≤ 2.5

Max. sash height/width ratio
H:L ≤ 2.5

 Nije dopušteno
Not allowed



H= Visina krila
H= Sash height
L= Širina krila
L= Sash width

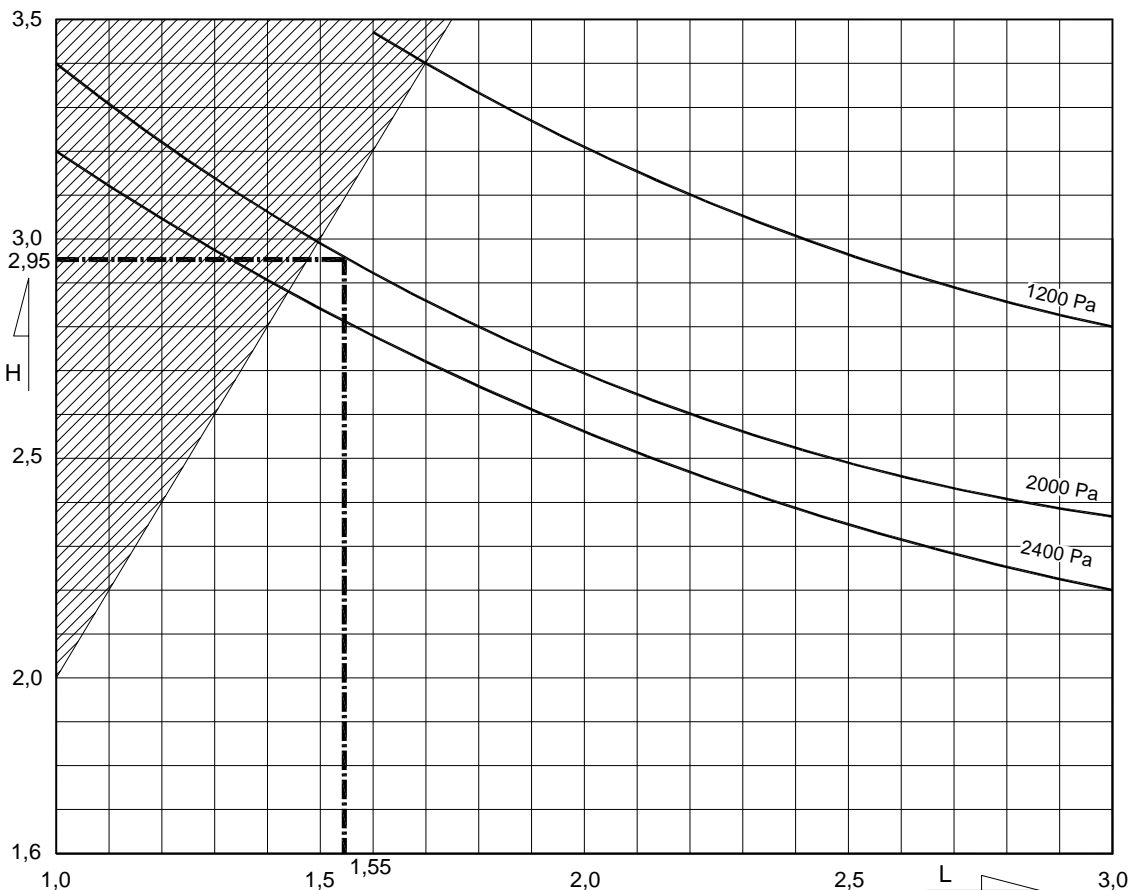
500 Pa ———

800 Pa ———

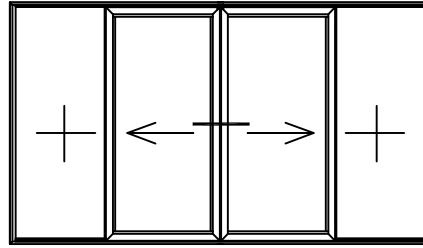
1200 Pa ———

2000 Pa ———

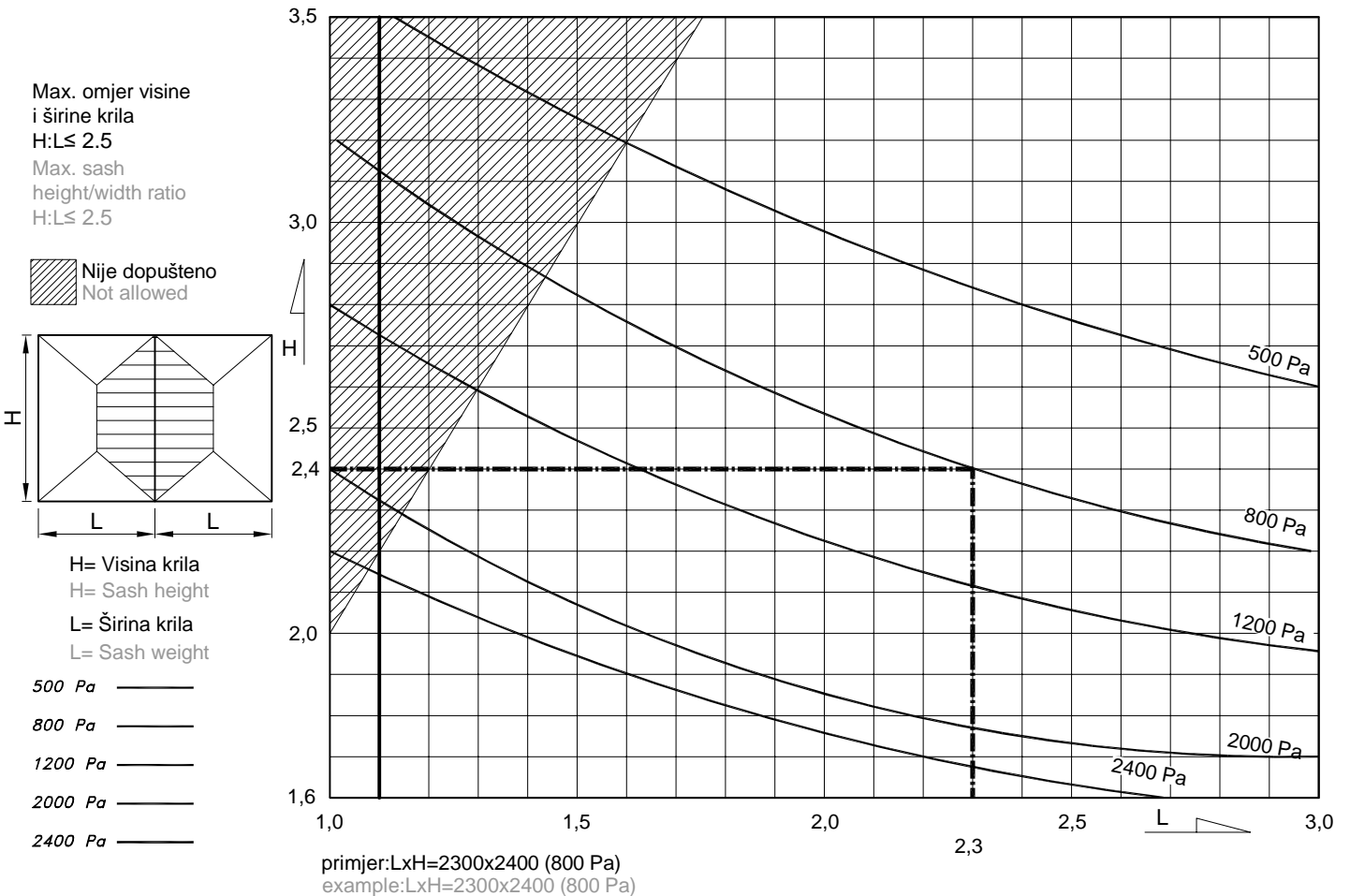
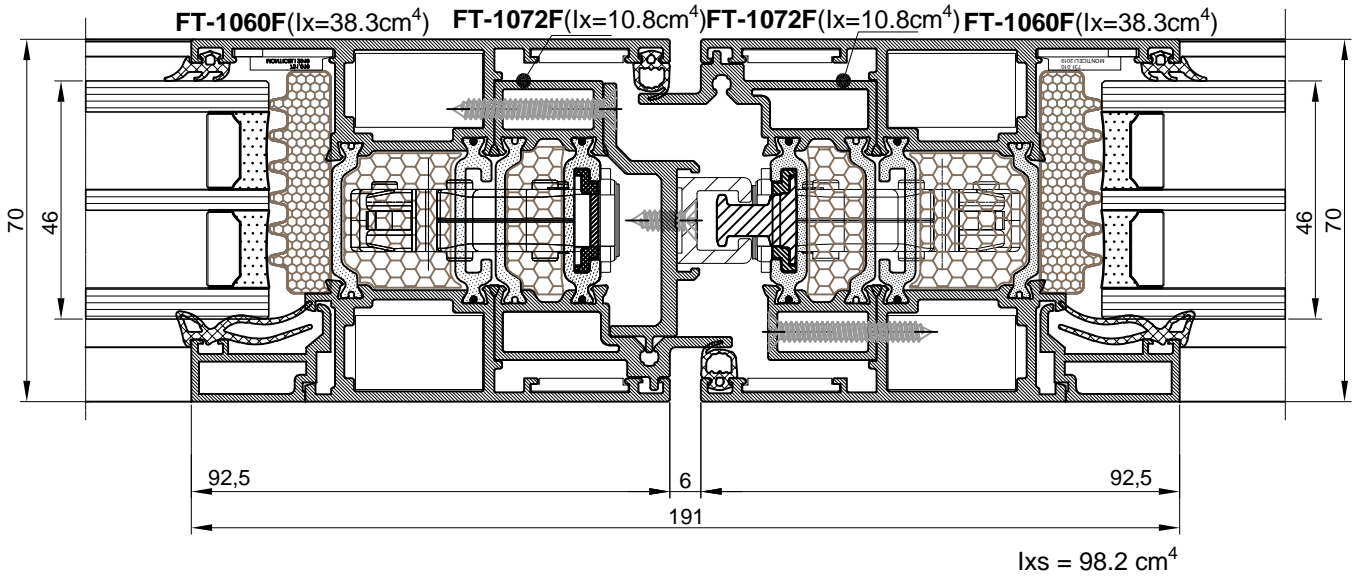
2400 Pa ———

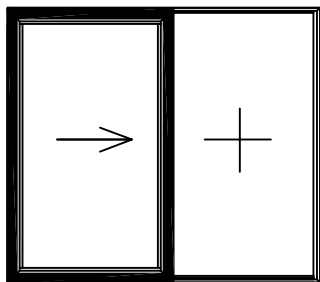


primjer: LxH=1550x2950 (2000 Pa)
example: LxH=1550x2950 (2000 Pa)



Schema C





-Dijagram nosivosti okova ovisno o težini krila

-Hardware load capacity chart depending on sash weight

Širina krila Lkr 1500 -3000 mm
 Visina krila Hkr 2000-3600 mm
 Težina krila max.400 kg

Sash width Lsh 1500 -3000 mm
 Sash height Hsh 2000-3600 mm
 Sash weight max.400 kg

Težina stakla max.80 kg/m²

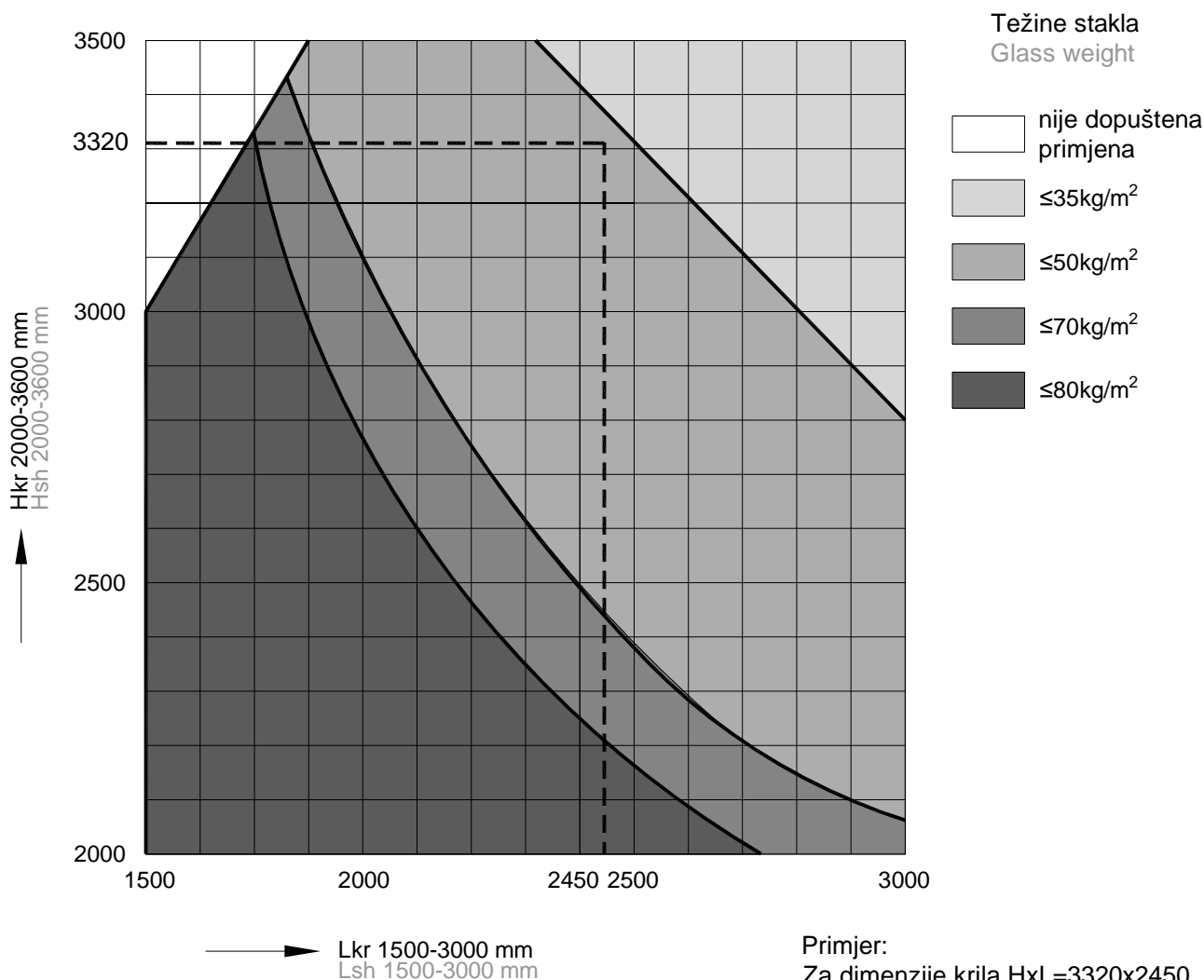
Glass weight max.80 kg/m²

Visina krila Hkr : Širina krila Lkr = max. 2:1

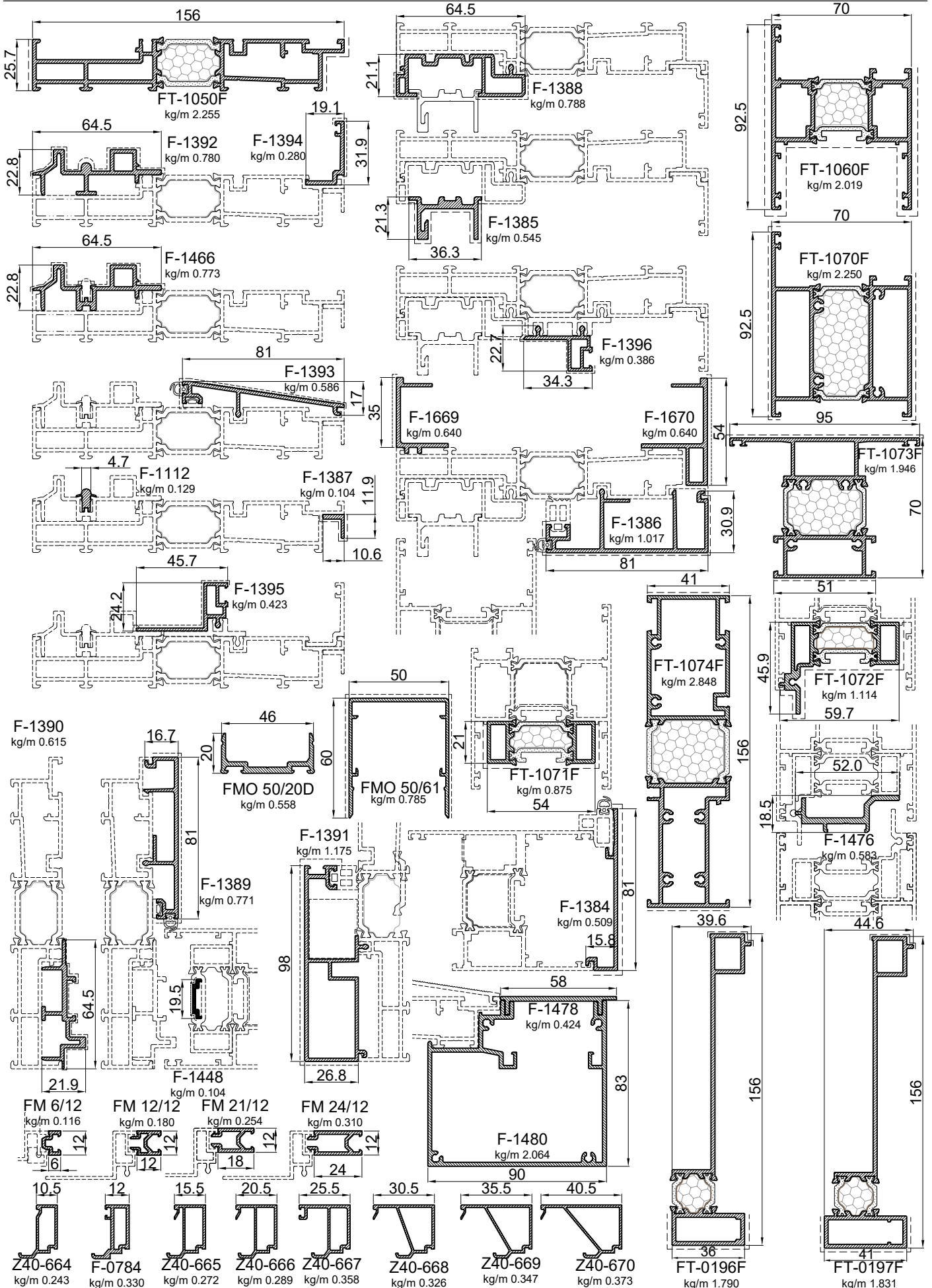
Sash height Hsh : Sash width Lsh = max. 2:1

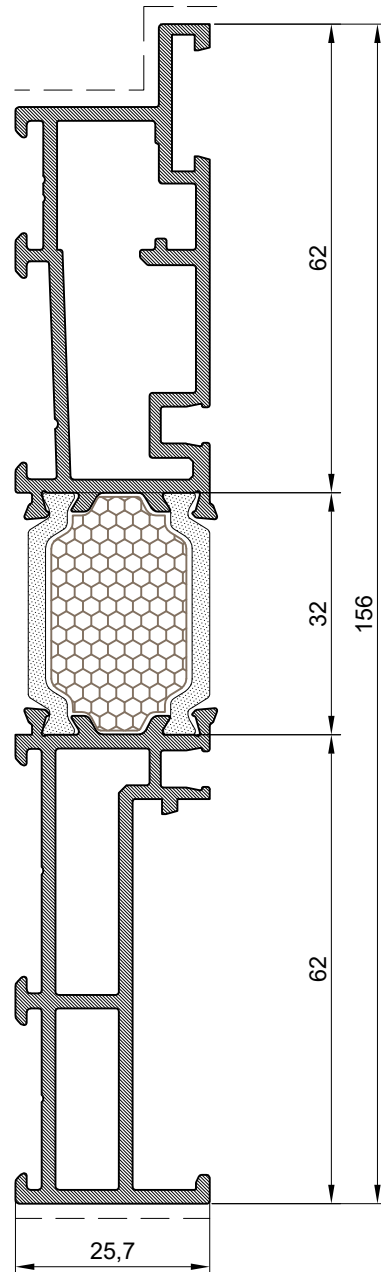
1 mm/m² debljine stakla =2.5 kg

1 mm/m² glass thickness =2.5 kg



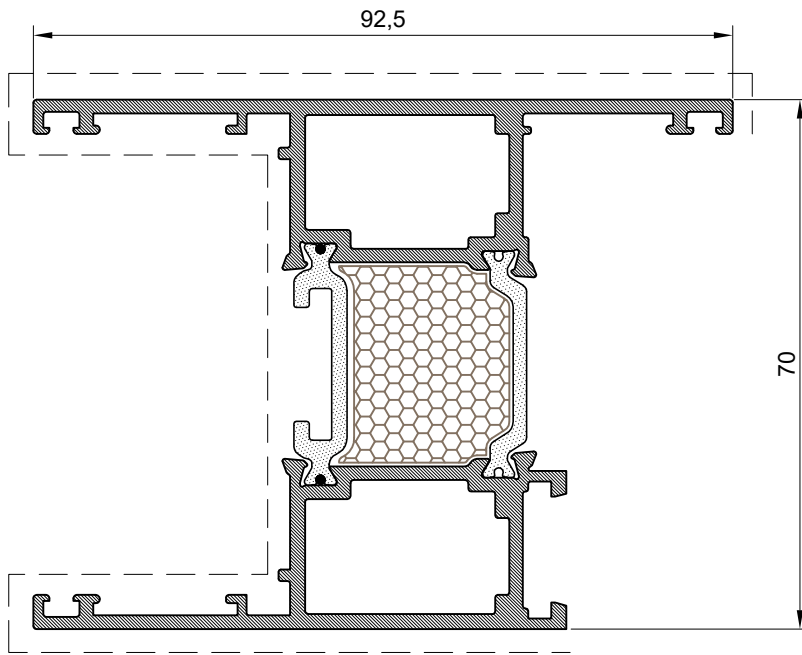
Profili Profiles



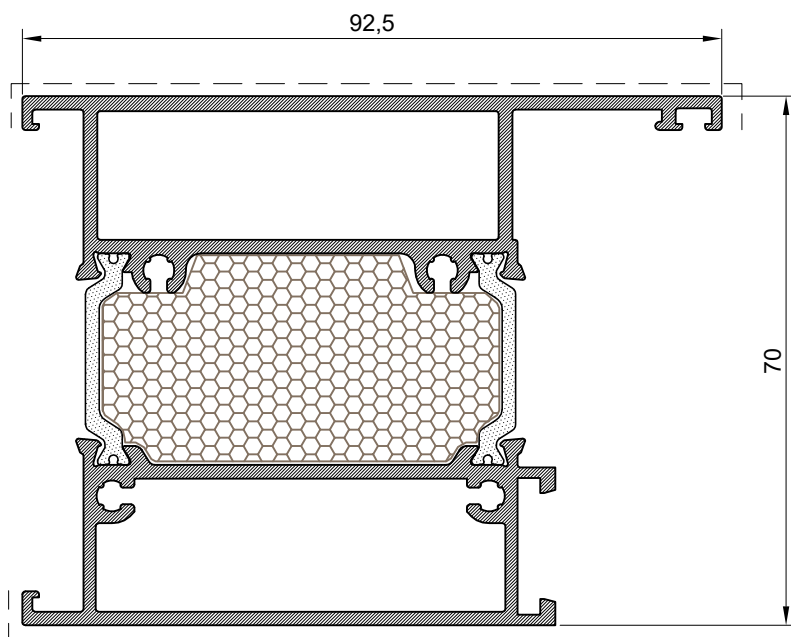


Profil rama Frame profile		
Art.Br. Art.Nr.	FT-1050F	
Težina Weight	kg/m'	2.255
Opseg Perimeter	mm	500.10
Moment inerције	I _x (cm ⁴)	131.88
	I _y (cm ⁴)	4.93
Moments of inertia	W _x (cm ³)	21.85
	W _y (cm ³)	3.54
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F”
PROFILES WITHOUT XPS DO NOT HAVE ENDING “F”

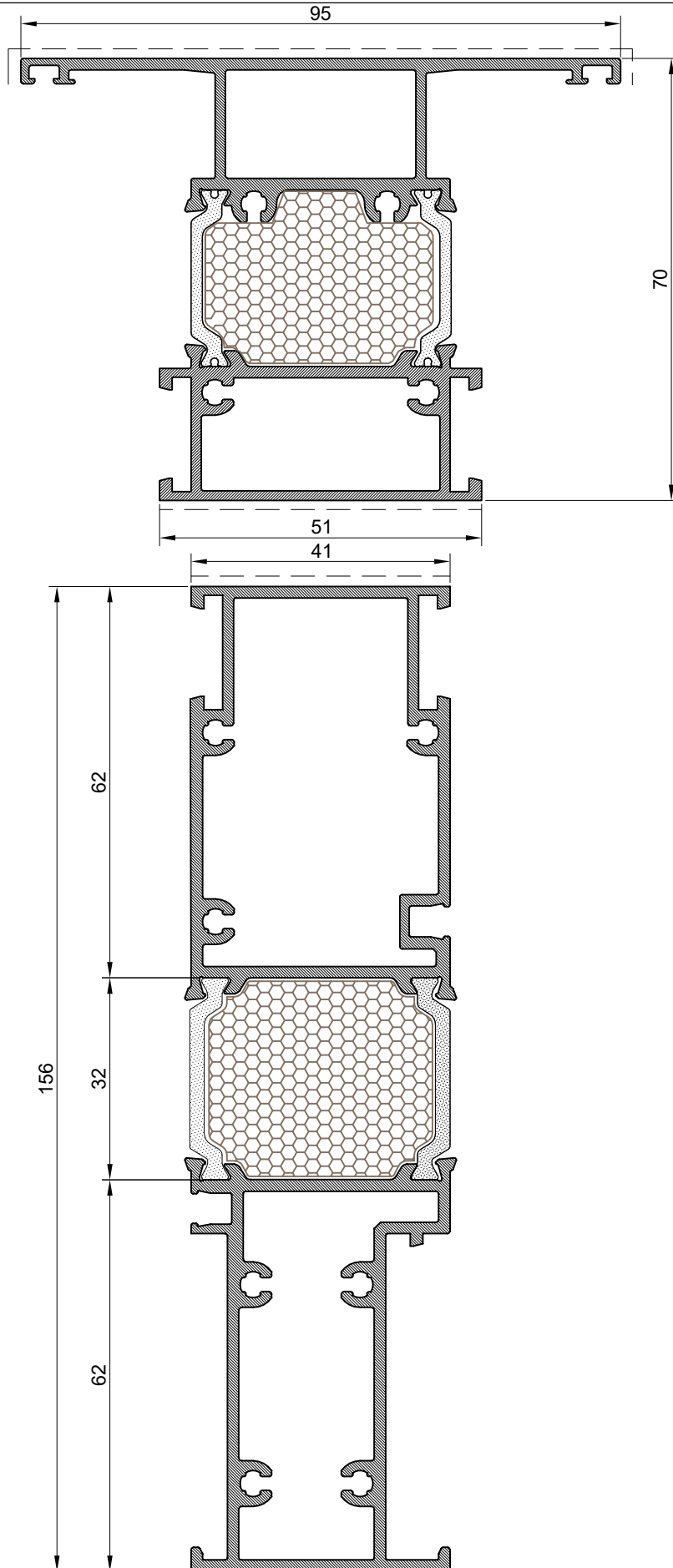


Profil krila Sash profile		
Art.Br. Art.Nr.	FT-1060F	
Težina Weight	kg/m'	2.019
Opseg Perimeter	mm	515.24
Moment inercije	Ix (cm ⁴)	38.31
	Iy (cm ⁴)	29.25
Moments of inertia	Wx (cm ³)	14.21
	Wy (cm ³)	6.39
L	mm	6500



Prečka Mullion		
Art.Br. Art.Nr.	FT-1070F	
Težina Weight	kg/m'	2.250
Opseg Perimeter	mm	403.59
Moment inercije	Ix (cm ⁴)	37.960
	Iy (cm ⁴)	44.210
Moments of inertia	Wx (cm ³)	13.760
	Wy (cm ³)	8.310
L	mm	6500

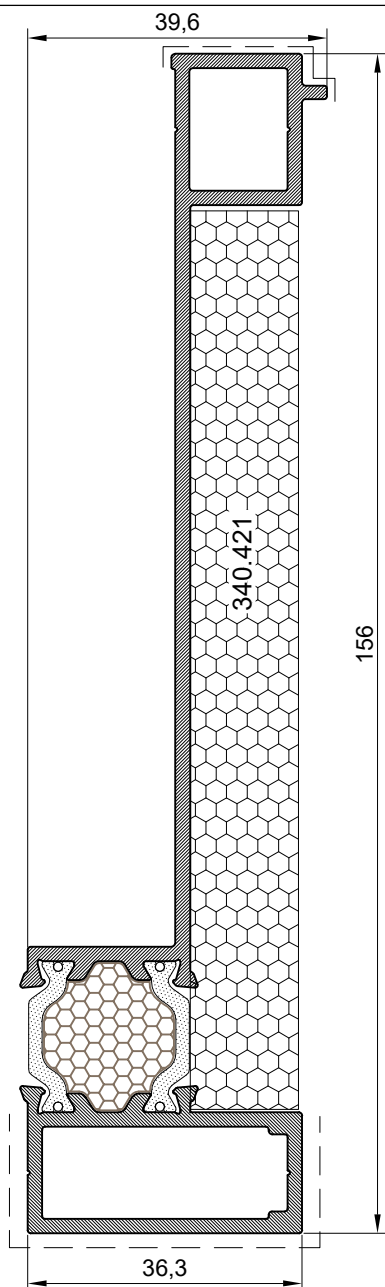
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F”
PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"



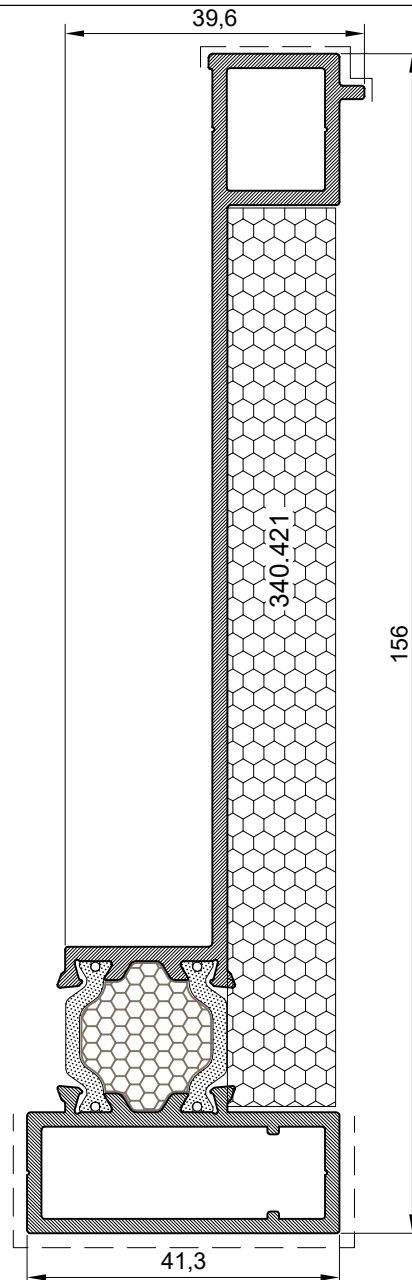
Prečka Mullion		
Art.Br. Art.Nr.	FT-1073F	
Težina Weight	kg/m' 1.946	
Opseg Perimeter	mm 433.00	
Moment inercije Moments of inertia	Ix (cm ⁴)	31.54
	Iy (cm ⁴)	26.32
	Wx (cm ³)	10.85
	Wy (cm ³)	5.54
L	mm 6500	

Prečka Mullion		
Art.Br. Art.Nr.	FT-1074F	
Težina Weight	kg/m' 2.848	
Opseg Perimeter	mm 501.10	
Moment inercije Moments of inertia	Ix (cm ⁴)	185.36
	Iy (cm ⁴)	20.13
	Wx (cm ³)	30.59
	Wy (cm ³)	9.14
L	mm 6500	

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F”
PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"

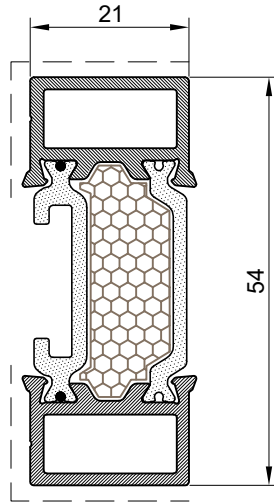


Spojni profil sa fasadom Connection profile for curtain wall		
Art.Br. Art.Nr.	FT-0196F	
Težina Weight	kg/m'	1.790
Opseg Perimeter	mm	437.26
Moment inercije	I _x (cm ⁴)	153.59
	I _y (cm ⁴)	5.790
Moments of inertia	W _x (cm ³)	20.92
	W _y (cm ³)	2.740
L	mm	6500

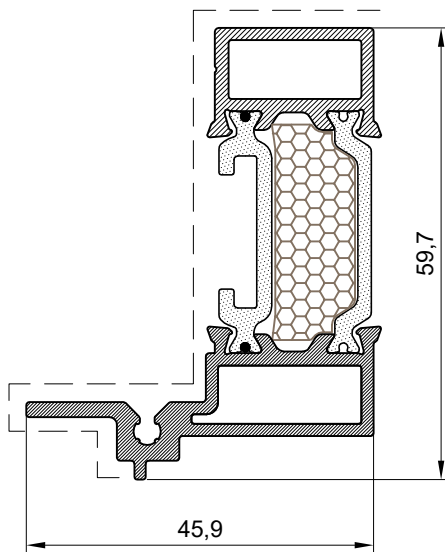


Spojni profil sa fasadom Connection profile for curtain wall		
Art.Br. Art.Nr.	FT-0197F	
Težina Weight	kg/m'	1.831
Opseg Perimeter	mm	436.48
Moment inercije	I _x (cm ⁴)	157.65
	I _y (cm ⁴)	7.130
Moments of inertia	W _x (cm ³)	21.19
	W _y (cm ³)	2.950
L	mm	6500

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F”
PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"

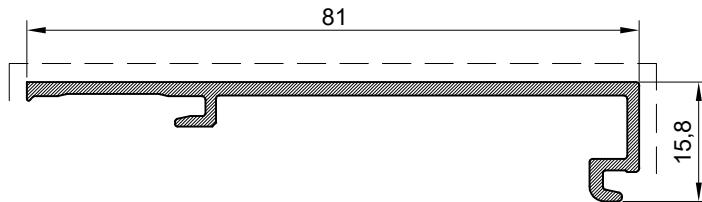


Umetak Insert		
Art.Br. Art.Nr.	FT-1071F	
Težina Weight	kg/m'	0.875
Opseg Perimeter	mm	174.95
Moment inercije	I _x (cm ⁴)	7.220
	I _y (cm ⁴)	1.300
Moments of inertia	W _x (cm ³)	3.740
	W _y (cm ³)	1.120
L	mm	6500

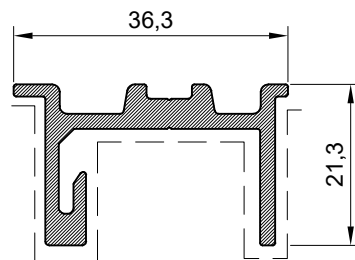


Umetak Insert		
Art.Br. Art.Nr.	FT-1072F	
Težina Weight	kg/m'	1.114
Opseg Perimeter	mm	244.88
Moment inercije	I _x (cm ⁴)	10.32
	I _y (cm ⁴)	4.50
Moments of inertia	W _x (cm ³)	4.26
	W _y (cm ³)	1.52
L	mm	6500

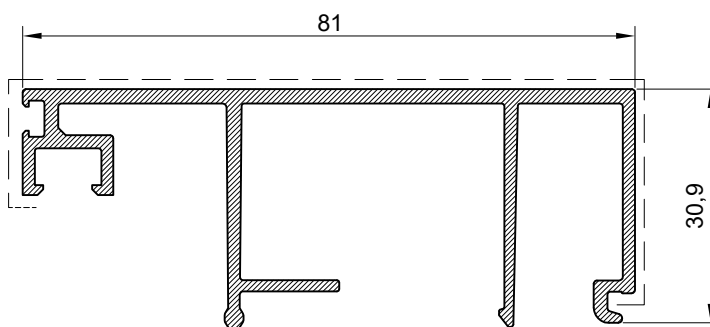
PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F”
PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"



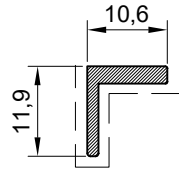
Al profil Al profile		
Art.Br. Art.Nr.	F-1384	
Težina Weight	kg/m'	0.509
Opseg Perimeter	mm	221.73
Moment inercije	I _x (cm ⁴)	0.2770
	I _y (cm ⁴)	12.3392
Moments of inertia	W _x (cm ³)	0.2114
	W _y (cm ³)	2.6598
L	mm	6500



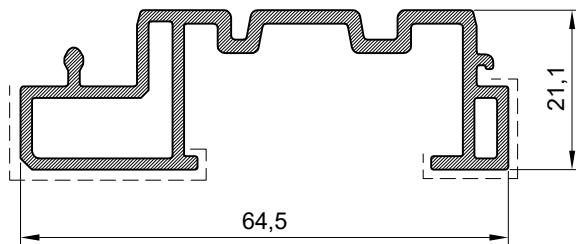
Al profil Al profile		
Art.Br. Art.Nr.	F-1385	
Težina Weight	kg/m'	0.545
Opseg Perimeter	mm	175.06
Moment inercije	I _x (cm ⁴)	0.800
	I _y (cm ⁴)	2.5727
Moments of inertia	W _x (cm ³)	0.6062
	W _y (cm ³)	1.4058
L	mm	6500



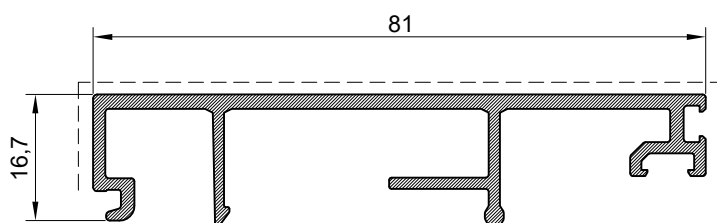
Al profil Al profile		
Art.Br. Art.Nr.	F-1386	
Težina Weight	kg/m'	1.017
Opseg Perimeter	mm	438.29
Moment inercije	I _x (cm ⁴)	3.7251
	I _y (cm ⁴)	26.2336
Moments of inertia	W _x (cm ³)	1.6772
	W _y (cm ³)	6.1944
L	mm	6500



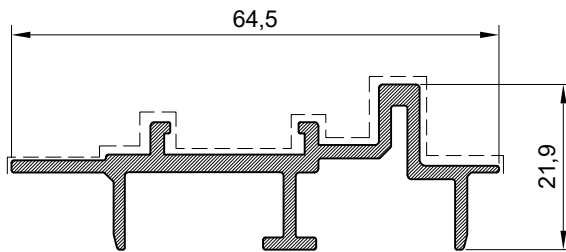
Al profil Al profile		
Art.Br. Art.Nr.	F-1387	
Težina Weight	kg/m'	0.104
Opseg Perimeter	mm	44.44
Moment inercije	I _x (cm ⁴)	0.0436
	I _y (cm ⁴)	0.0416
Moments of inertia	W _x (cm ³)	0.0509
	W _y (cm ³)	0.0595
L	mm	6500



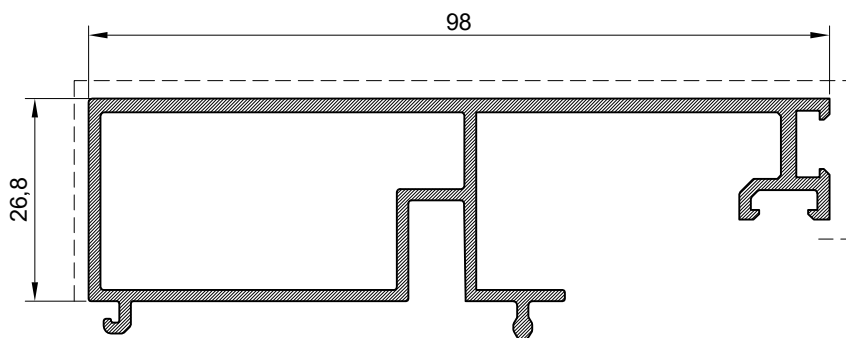
Al profil Al profile		
Art.Br. Art.Nr.	F-1388	
Težina Weight	kg/m'	0.788
Opseg Perimeter	mm	256.58
Moment inercije	I _x (cm ⁴)	1.4947
	I _y (cm ⁴)	12.8283
Moments of inertia	W _x (cm ³)	1.2721
	W _y (cm ³)	3.9278
L	mm	6500



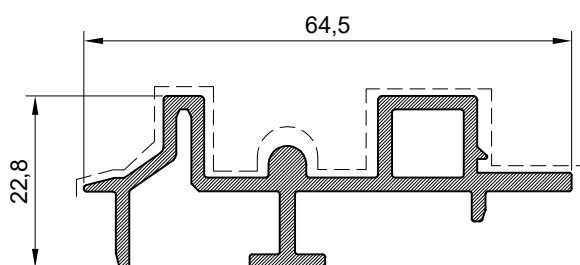
Al profil Al profile		
Art.Br. Art.Nr.	F-1389	
Težina Weight	kg/m'	0.771
Opseg Perimeter	mm	333.28
Moment inercije	I _x (cm ⁴)	0.7290
	I _y (cm ⁴)	19.0498
Moments of inertia	W _x (cm ³)	0.5678
	W _y (cm ³)	4.6294
L	mm	6500



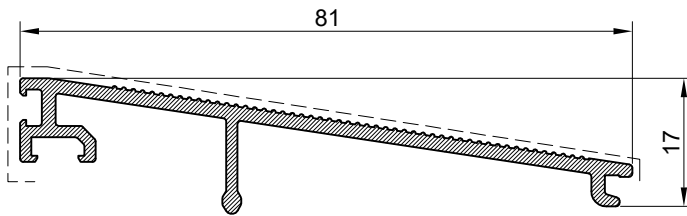
Al profil Al profile		
Art.Br. Art.Nr.	F-1390	
Težina Weight	kg/m'	0.615
Opseg Perimeter	mm	251.80
Moment inercije	I _x (cm ⁴)	0.5178
	I _y (cm ⁴)	6.4697
Moments of inertia	W _x (cm ³)	0.4716
	W _y (cm ³)	1.8427
L	mm	6500



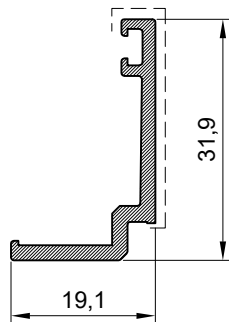
Al profil Al profile		
Art.Br. Art.Nr.	F-1391	
Težina Weight	kg/m'	1.175
Opseg Perimeter	mm	381.16
Moment inercije	I _x (cm ⁴)	5.4069
	I _y (cm ⁴)	40.1920
Moments of inertia	W _x (cm ³)	2.2671
	W _y (cm ³)	7.6353
L	mm	6500



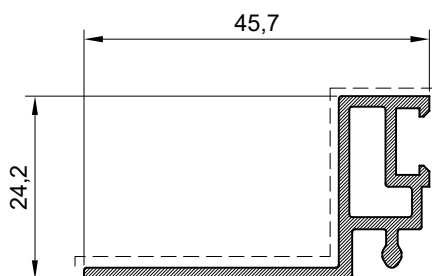
Al profil Al profile		
Art.Br. Art.Nr.	F-1392	
Težina Weight	kg/m'	0.780
Opseg Perimeter	mm	257.28
Moment inercije	I _x (cm ⁴)	0.9102
	I _y (cm ⁴)	8.4401
Moments of inertia	W _x (cm ³)	0.7341
	W _y (cm ³)	2.5630
L	mm	6500



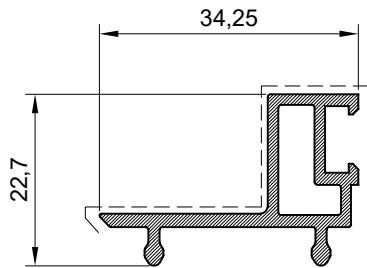
Al profil Al profile		
Art.Br. Art.Nr.	F-1393	
Težina Weight	kg/m'	0.586
Opseg Perimeter	mm	263.19
Moment inercije	I _x (cm ⁴)	0.3468
	I _y (cm ⁴)	13.6387
Moments of inertia	W _x (cm ³)	0.3297
	W _y (cm ³)	3.0014
L	mm	6500



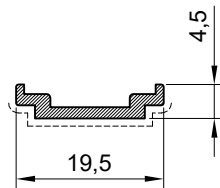
Al profil Al profile		
Art.Br. Art.Nr.	F-1394	
Težina Weight	kg/m'	0.280
Opseg Perimeter	mm	115.54
Moment inercije	I _x (cm ⁴)	1.1696
	I _y (cm ⁴)	0.3008
Moments of inertia	W _x (cm ³)	0.5609
	W _y (cm ³)	0.2063
L	mm	6500



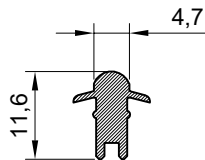
Al profil Al profile		
Art.Br. Art.Nr.	F-1395	
Težina Weight	kg/m'	0.423
Opseg Perimeter	mm	161.12
Moment inercije	I _x (cm ⁴)	1.0681
	I _y (cm ⁴)	2.2870
Moments of inertia	W _x (cm ³)	0.7064
	W _y (cm ³)	0.7196
L	mm	6500



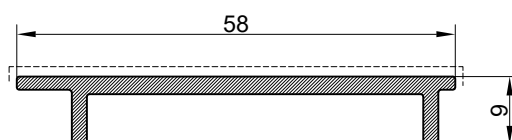
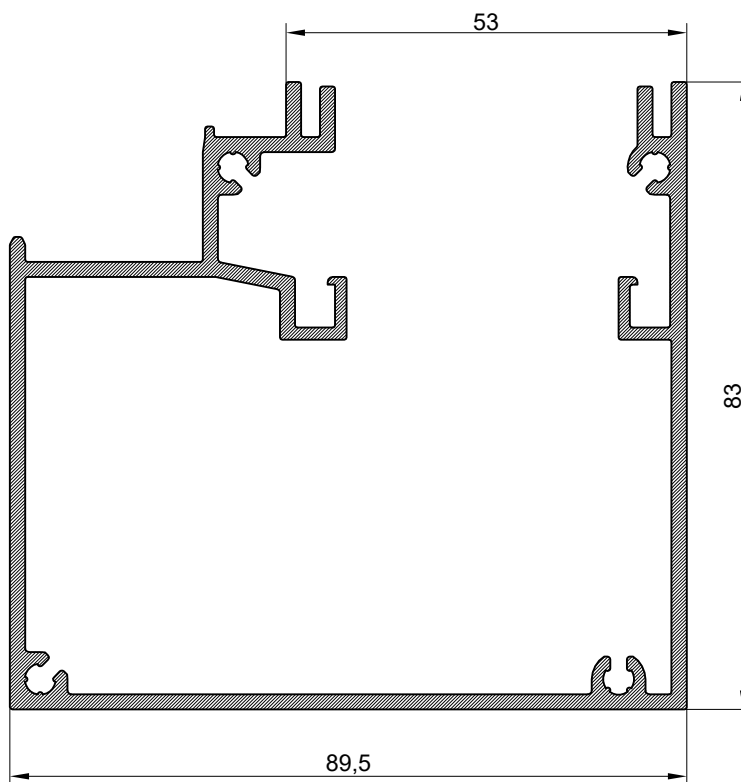
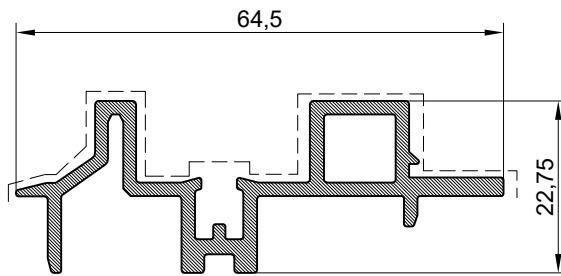
Al profil Al profile		
Art.Br. Art.Nr.	F-1396	
Težina Weight	kg/m'	0.386
Opseg Perimeter	mm	134.35
Moment inercije	I _x (cm ⁴)	0.6088
	I _y (cm ⁴)	1.2564
Moments of inertia	W _x (cm ³)	0.4886
	W _y (cm ³)	1.2564
L	mm	6500



Al profil Al profile		
Art.Br. Art.Nr.	F-1448	
Težina Weight	kg/m'	0.104
Opseg Perimeter	mm	53.06
Moment inercije	I _x (cm ⁴)	0.0046
	I _y (cm ⁴)	0.1415
Moments of inertia	W _x (cm ³)	0.0158
	W _y (cm ³)	0.1451
L	mm	6500



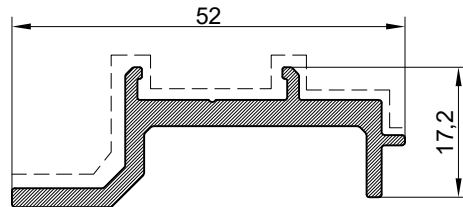
Profil vodilice Guide profile		
Art.Br. Art.Nr.	F-1112	
Težina Weight	kg/m'	0.129
Opseg Perimeter	mm	45.43
L	mm	6500



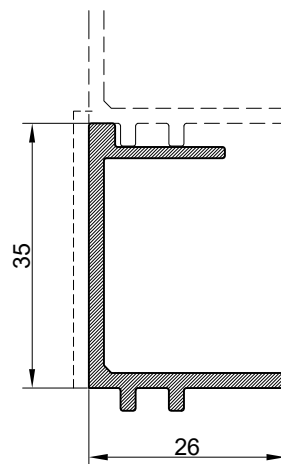
Al profil Al profile		
Art.Br. Art.Nr.	F-1466	
Težina Weight	kg/m'	0.773
Opseg Perimeter	mm	262.116
Moment inercije Moments of inertia	I _x (cm ⁴)	8.4827
	I _y (cm ⁴)	0.9940
	W _x (cm ³)	2.5791
	W _y (cm ³)	0.8424
L	mm	6500

Al profil Al profile		
Art.Br. Art.Nr.	F-1480	
Težina Weight	kg/m'	2.064
Opseg Perimeter	mm	768.74
Moment inercije Moments of inertia	I _x (cm ⁴)	63.570
	I _y (cm ⁴)	86.708
	W _x (cm ³)	14.011
	W _y (cm ³)	18.723
L	mm	6500

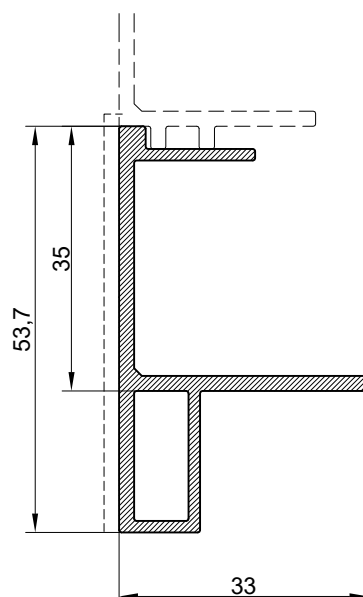
Al profil Al profile		
Art.Br. Art.Nr.	F-1478	
Težina Weight	kg/m'	0.424
Opseg Perimeter	mm	145.75
Moment inercije Moments of inertia	I _x (cm ⁴)	0.0607
	I _y (cm ⁴)	4.8705
	W _x (cm ³)	0.0854
	W _y (cm ³)	1.6294
L	mm	6500



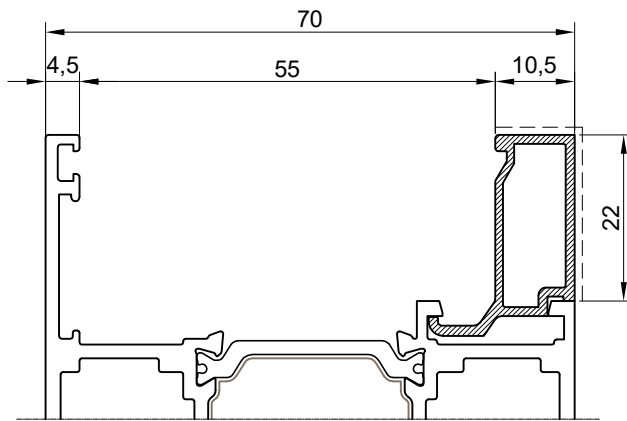
Al profil Al profile		
Art.Br. Art.Nr.	F-1476	
Težina Weight	kg/m'	0.583
Opseg Perimeter	mm	161.73
Moment inercije	I _x (cm ⁴)	4.4114
	I _y (cm ⁴)	0.5031
Moments of inertia	W _x (cm ³)	1.6040
	W _y (cm ³)	0.5268
L	mm	6500



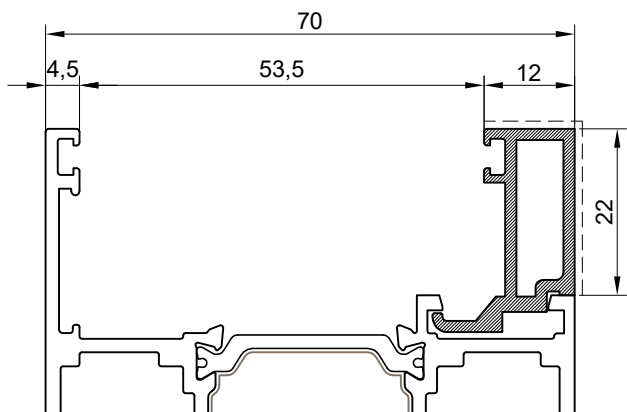
Al profil Al profile		
Art.Br. Art.Nr.	F-1669	
Težina Weight	kg/m'	0.429
Opseg Perimeter	mm	163.34
Moment inercije	I _x (cm ⁴)	2.7845
	I _y (cm ⁴)	0.8150
Moments of inertia	W _x (cm ³)	1.2993
	W _y (cm ³)	0.4263
L	mm	6500



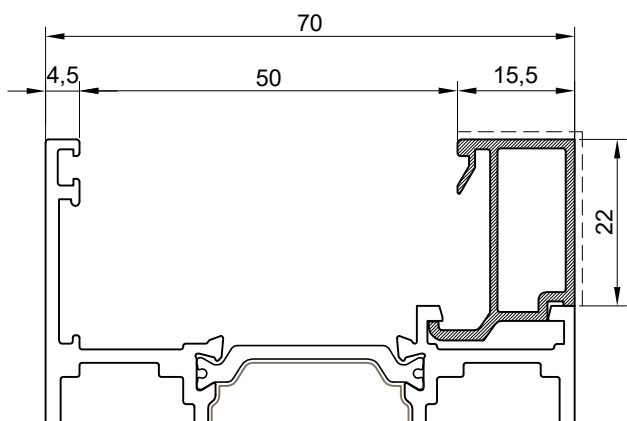
Al profil Al profile		
Art.Br. Art.Nr.	F-1670	
Težina Weight	kg/m'	0.640
Opseg Perimeter	mm	203.38
Moment inercije	I _x (cm ⁴)	6.0158
	I _y (cm ⁴)	1.6741
Moments of inertia	W _x (cm ³)	2.0623
	W _y (cm ³)	0.6570
L	mm	6500



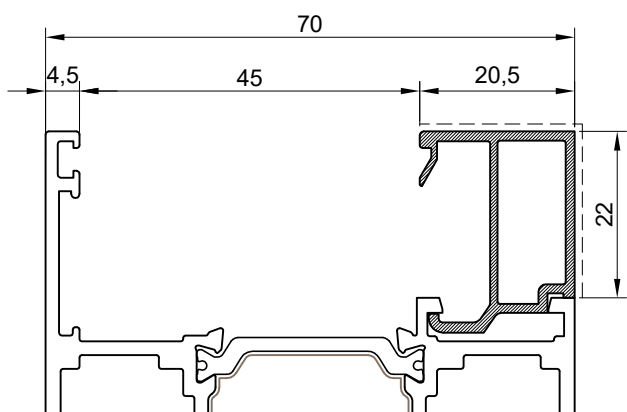
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-664	
Težina Weight	kg/m'	0.243
Opseg Perimeter	mm	93.00
L	mm	6500



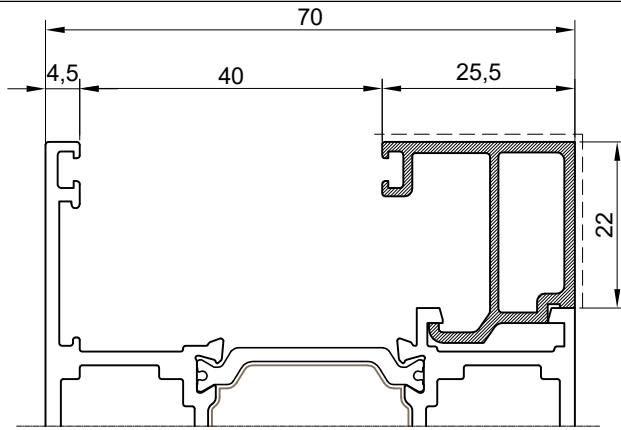
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	F-0784	
Težina Weight	kg/m'	0.330
Opseg Perimeter	mm	105.40
L	mm	6500



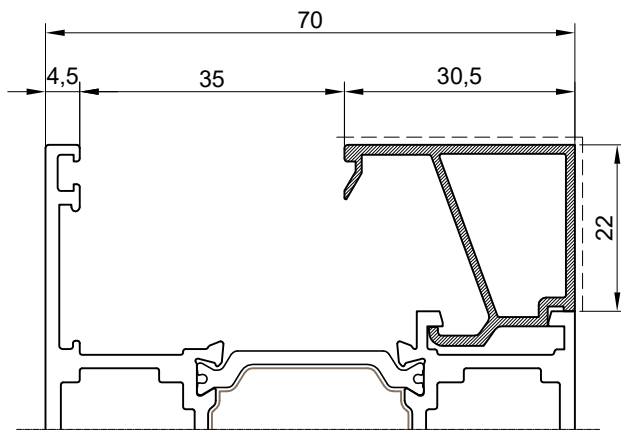
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-665	
Težina Weight	kg/m'	0.271
Opseg Perimeter	mm	112.00
L	mm	6500



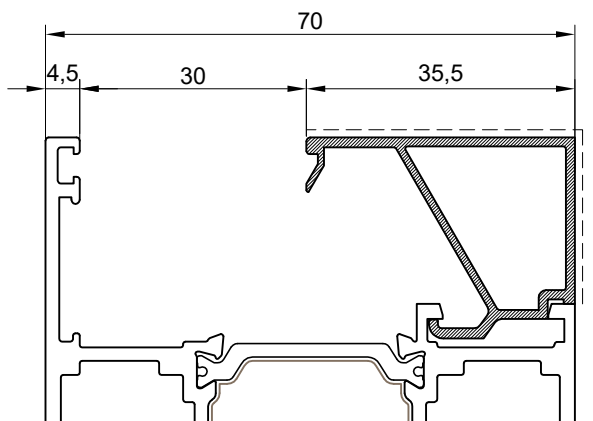
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-666	
Težina Weight	kg/m'	0.289
Opseg Perimeter	mm	122.00
L	mm	6500



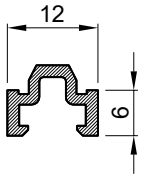
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-667	
Težina Weight	kg/m'	0.358
Opseg Perimeter	mm	139.00
L	mm	6500



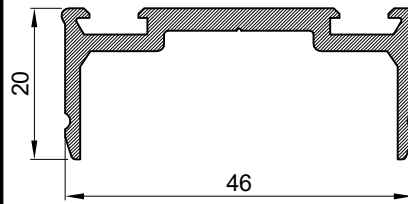
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-668	
Težina Weight	kg/m'	0.326
Opseg Perimeter	mm	135.00
L	mm	6500



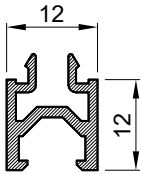
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-669	
Težina Weight	kg/m'	0.347
Opseg Perimeter	mm	143.00
L	mm	6500



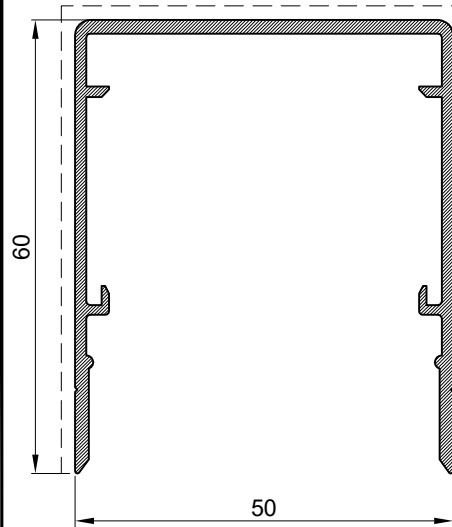
Al profil Al profile		
Art.Br. Art.Nr.	FM 6/12	
Težina Weight	kg/m'	0.116
Opseg Perimeter	mm	61.00
L	mm	6500



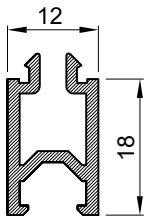
Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/20D	
Težina Weight	kg/m'	0.558
Opseg Perimeter	mm	185.00
L	mm	6500



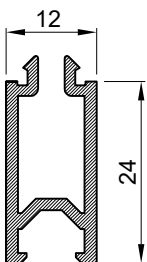
Al profil Al profile		
Art.Br. Art.Nr.	FM 12/12	
Težina Weight	kg/m'	0.18
Opseg Perimeter	mm	100.16
L	mm	6500



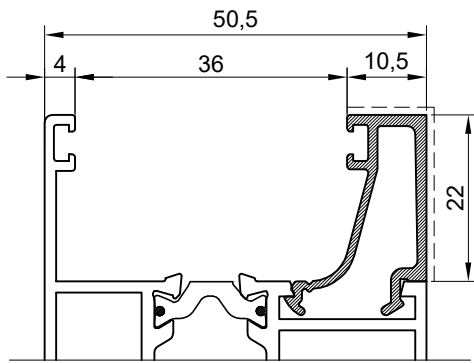
Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/61	
Težina Weight	kg/m'	0.785
Opseg Perimeter	mm	365.00
L	mm	6500



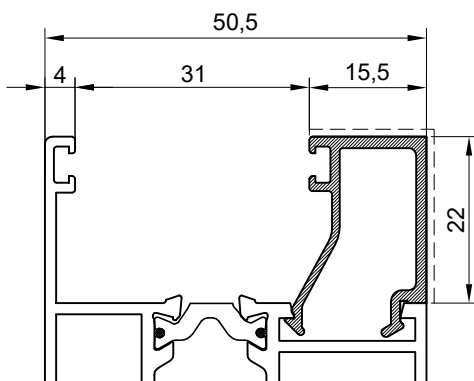
Al profil Al profile		
Art.Br. Art.Nr.	FM 21/12	
Težina Weight	kg/m'	0.254
Opseg Perimeter	mm	124.00
L	mm	6500



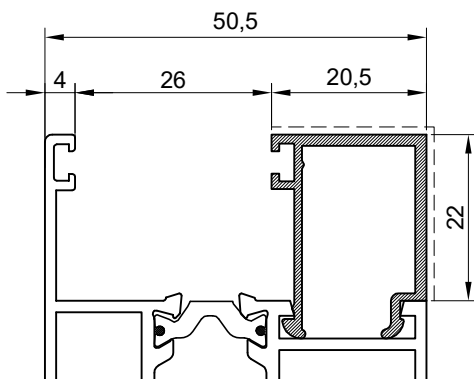
Al profil Al profile		
Art.Br. Art.Nr.	FM 24/12	
Težina Weight	kg/m'	0.310
Opseg Perimeter	mm	148.30
L	mm	6500



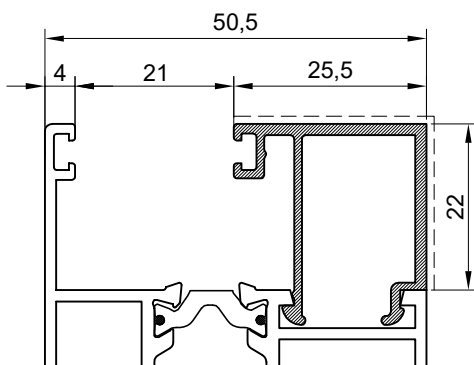
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-636	
Težina Weight	kg/m'	0.261
Opseg Perimeter	mm	151.00
L	mm	6500



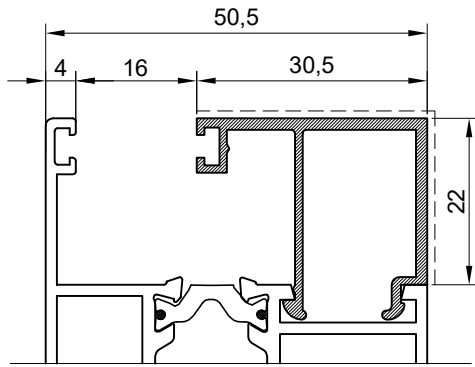
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	M45-709	
Težina Weight	kg/m'	0.269
Opseg Perimeter	mm	156.00
L	mm	6500



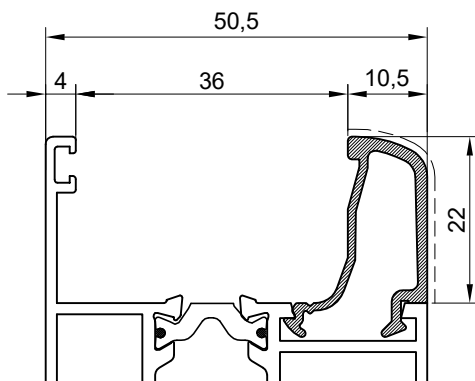
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-644	
Težina Weight	kg/m'	0.275
Opseg Perimeter	mm	162.00
L	mm	6500



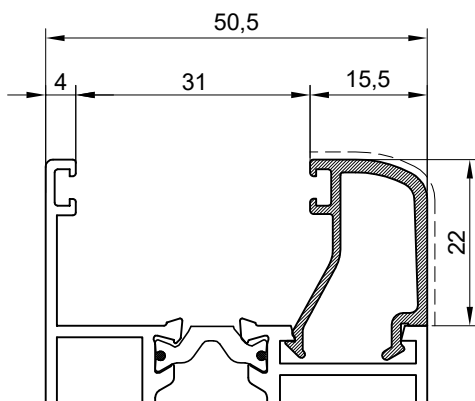
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-658	
Težina Weight	kg/m'	0.318
Opseg Perimeter	mm	184.00
L	mm	6500



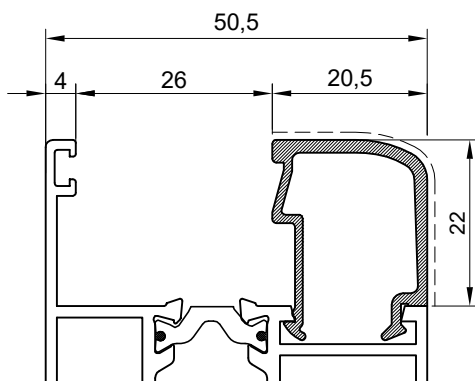
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-653	
Težina Weight	kg/m'	0.348
Opseg Perimeter	mm	201.00
L	mm	6500



Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-647	
Težina Weight	kg/m'	0.226
Opseg Perimeter	mm	137.00
L	mm	6500



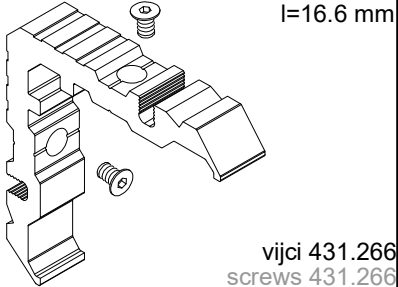
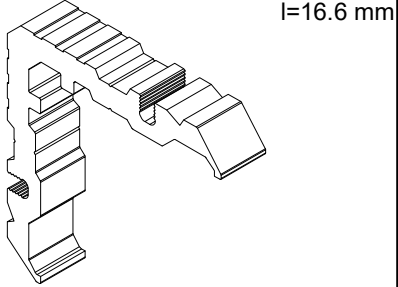
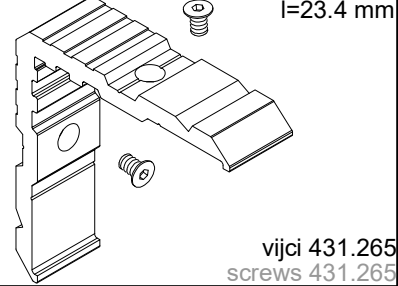
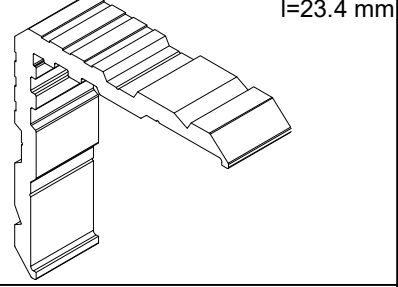
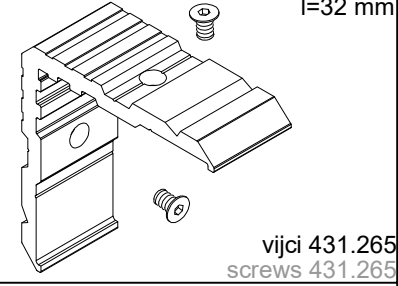
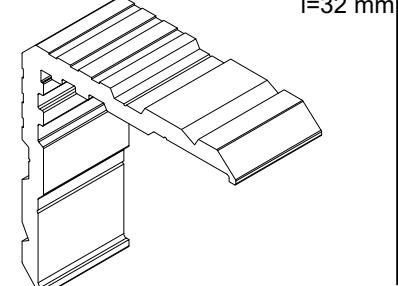
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	M45-740	
Težina Weight	kg/m'	0.258
Opseg Perimeter	mm	148.00
L	mm	6500

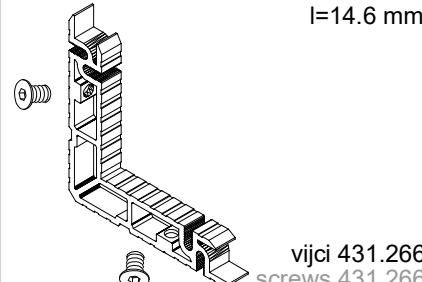
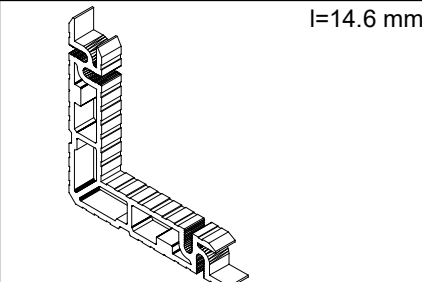
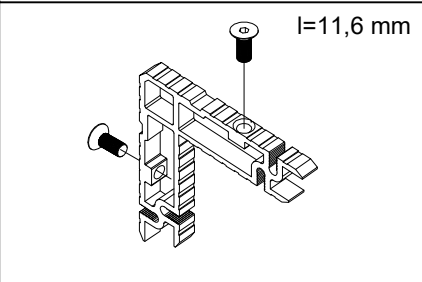
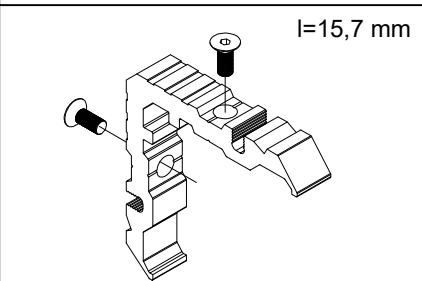
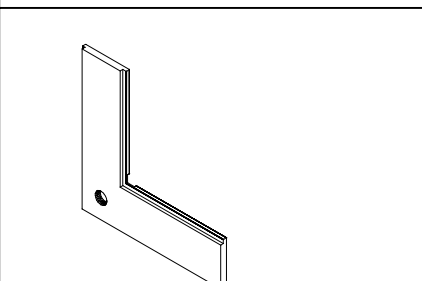
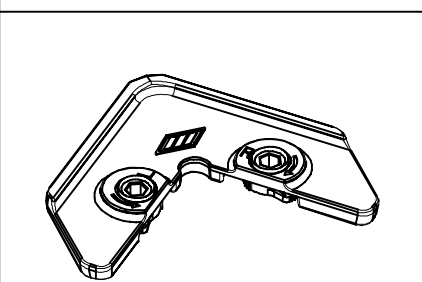



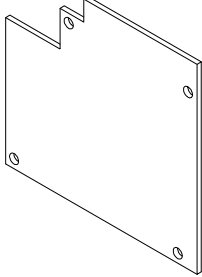
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	Z40-646	
Težina Weight	kg/m'	0.286
Opseg Perimeter	mm	154.00
L	mm	6500

Vezni elementi

Connection elements

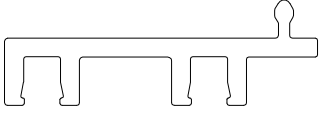
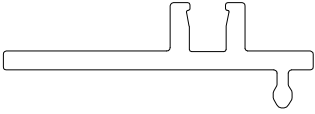
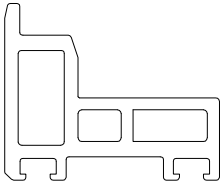
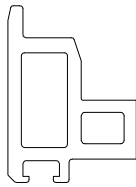
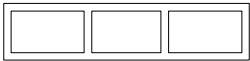
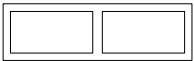
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
710.491	 <p>l=16.6 mm</p> <p>vijci 431.266 screws 431.266</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 17.2x13 - Corner bracket for chamber 17.2x13 	Al	
710.492	 <p>l=16.6 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 17.2x13 - Corner bracket for chamber 17.2x13 	Al	
710.493	 <p>l=23.4 mm</p> <p>vijci 431.265 screws 431.265</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 24x8.4 - Corner bracket for chamber 24x8.4 	Al	
710.494	 <p>l=23.4 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 24x8.4 - Corner bracket for chamber 24x8.4 	Al	
710.495	 <p>l=32 mm</p> <p>vijci 431.265 screws 431.265</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 32.6x8.4 - Corner bracket for chamber 32.6x8.4 	Al	
710.496	 <p>l=32 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 32.6x8.4 - Corner bracket for chamber 32.6x8.4 	Al	

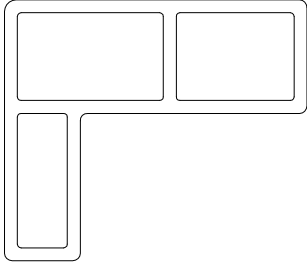
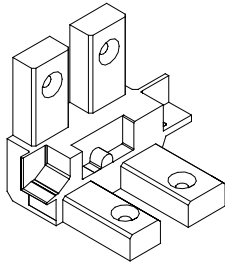
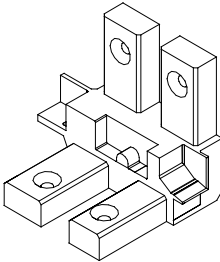
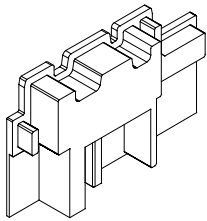
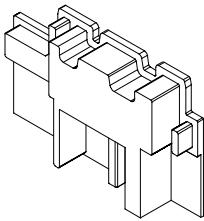
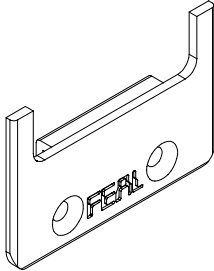
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
710.201	 <p>l=14.6 mm</p> <p>vijci 431.266 screws 431.266</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 15x25.2 - Corner bracket for chamber 53,4x16,5 	Al	
710.202	 <p>l=14.6 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 15x25.2 - Corner bracket for chamber 53,4x16,5 	Al	
710.523	 <p>l=11,6 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 30x12,2 - Corner bracket for chamber 30x12,2 	Al	
710.524	 <p>l=15,7 mm</p>	<ul style="list-style-type: none"> - Kutna spojnica za komoru 13x16,2 - Corner bracket for chamber 13x16,2 	Al	
730.017		<ul style="list-style-type: none"> - Pomoćni kutnik za komoru 19.2x1.6 - Auxiliary corner for chamber 19.2x1.6 	Zamak	
731.010		<ul style="list-style-type: none"> - Kutna spojnica za usku komoru - Stara oznaka 2019/500 - Corner bracket for narrow chamber - Former code 2019/500 	Zamak #3	

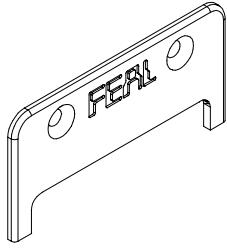

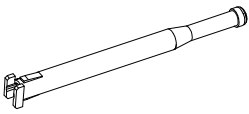
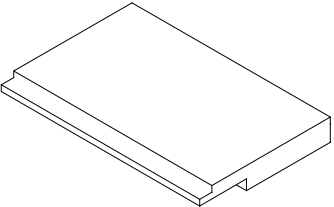
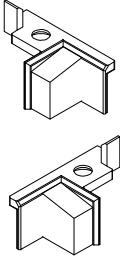
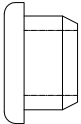
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
730.002		<ul style="list-style-type: none"> - Kutna spojnica za komoru 1.7x4.7 - Stara oznaka: G112/A - Corner bracket for chamber 1.7x4.7 - Former code G112/A 	Inox	
521.208		<ul style="list-style-type: none"> - Bočni čep za kadice - Side drainage profile 	Al	

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark

PVC elementi
PVC elements

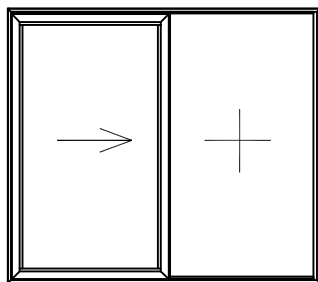
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
374.064		- Umetak za staklo lajsnu - Insert for glazing bead	PVC	
374.065		- Umetak za staklo lajsnu - Insert for glazing bead	PVC	
374.066		- Umetak na spoju dva krila - Insert on two sash joint	PVC	
374.074		- Umetak na spoju dva krila - Insert on two sash joint	PVC	
374.069	 M1:2	- PVC profil za ugradnju (65x15) - PVC installation profile (65x15)	PVC	
374.070	 M1:2	- PVC profil za ugradnju (50x15) - PVC installation profile (50x15)	PVC	

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
374.037		- PVC profil za ugradnju - PVC installation profile	PVC	
375.054		- Donji čep za ravni spoj umetaka na ramu (lijevi) - Lower cap for straight joint of inserts on frame (left)	PVC	
375.055		- Donji čep za ravni spoj umetaka na ramu (desni) - Lower cap for straight joint of inserts on frame(right)	PVC	
375.056		- Gornji čep za ravni spoj umetaka na ramu (lijevi) - Upper cap for straight joint of inserts on frame (left)	PVC	
375.057		- Gornji čep za ravni spoj umetaka na ramu (desni) - Upper cap for straight joint of inserts on frame (right)	PVC	
375.058		- Gornji čep maske-spoj dva krila - Upper mask cap-two sash joint	PVC	

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
375.059		- Donji čep maske-spoj dva krila - Lower mask cap-two sash joint	PVC	
375.048		- Umetak - Stara oznaka: K116 - Insert - Former code: K116	PVC 30% stakl. vlakana 30% glass fiber	
360.009		- Sustav odvodnje kapljevina iz krila -Monodrain - Sash drainage system from sash -Monodrain		
365.057		- Gumeni umetak na spoju krila i fiksnog krila - Rubber insert on sash and fixed sash joint	TPE	
363.048		- Čep u krilu za Shemu C - Cap in sash for Scheme C	Tvrda guma Hard rubber	
370.024		- Čep za rupu Ø12 - Hole plug Ø12	PVC	

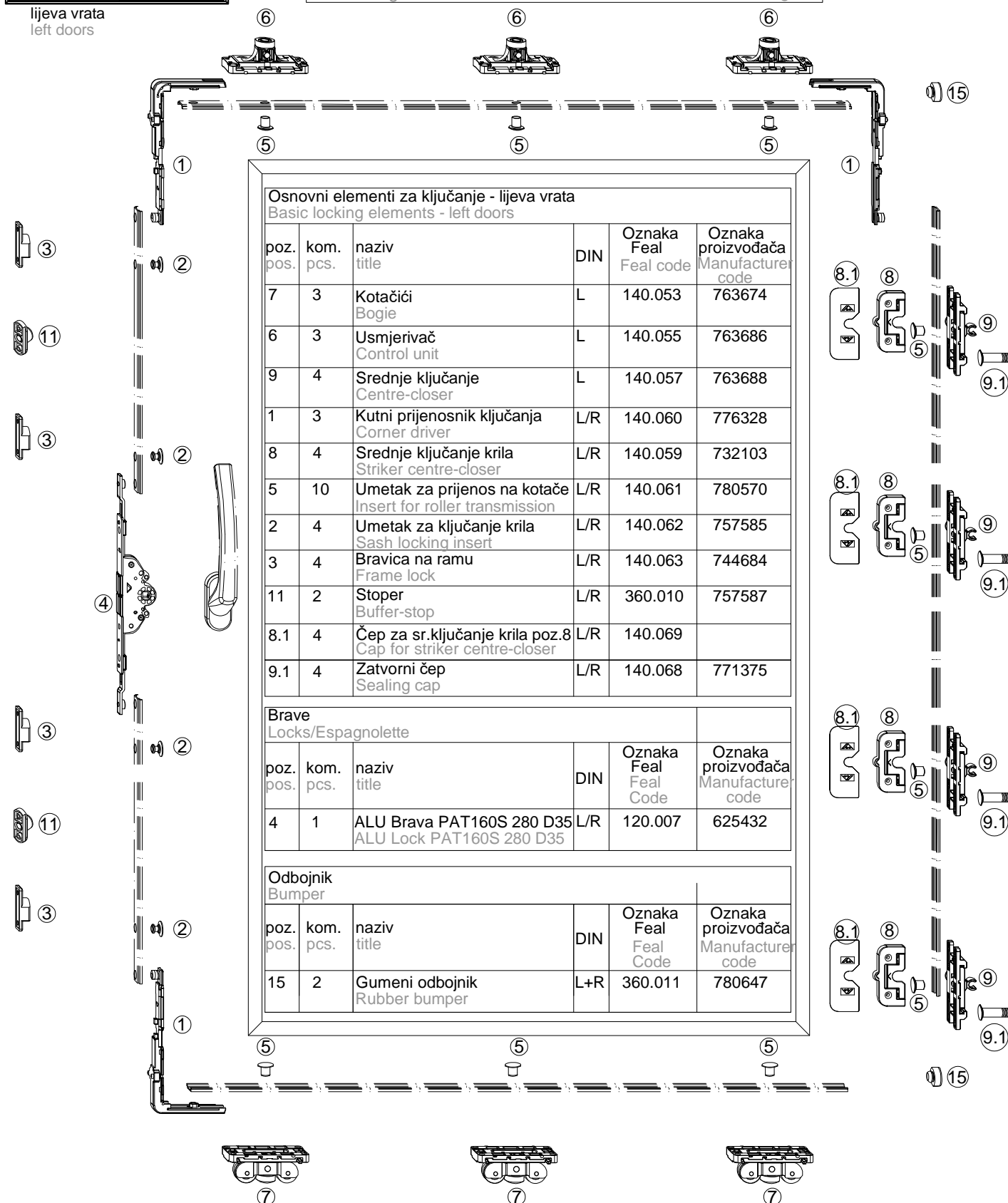
Mehanizmi Mechanisms

- Osnovni set za klizna vrata INOWA (lijeva).....140.066
- Basic set for slide door INOWA (left).....140.066



lijeva vrata
left doors

Širina krila Lk Sash width Lsh	..... do 1500 mm up to 1500 mm
Visina krila Hkr Sash height Hsh	..... do 2500 mm up to 2500 mm
Težina krila Sash weight	..... max.200 kg max.200 kg



Osnovni elementi za ključanje - lijeva vrata
Basic locking elements - left doors

poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal code	Oznaka proizvođača Manufacture code
7	3	Kotačići Bogie	L	140.053	763674
6	3	Usmjerivač Control unit	L	140.055	763686
9	4	Srednje ključanje Centre-closer	L	140.057	763688
1	3	Kutni prijenosnik ključanja Corner driver	L/R	140.060	776328
8	4	Srednje ključanje krila Striker centre-closer	L/R	140.059	732103
5	10	Umetak za prijenos na kotače Insert for roller transmission	L/R	140.061	780570
2	4	Umetak za ključanje krila Sash locking insert	L/R	140.062	757585
3	4	Bravica na ramu Frame lock	L/R	140.063	744684
11	2	Stoper Buffer-stop	L/R	360.010	757587
8.1	4	Čep za sr.ključanje krila poz.8 Cap for striker centre-closer	L/R	140.069	
9.1	4	Zatvorni čep Sealing cap	L/R	140.068	771375

Brave

Locks/Espagnolette

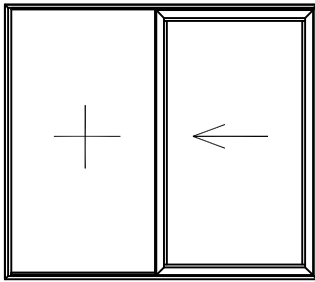
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacture code
4	1	ALU Brava PAT160S 280 D35 ALU Lock PAT160S 280 D35	L/R	120.007	625432

Odbojnik

Bumper

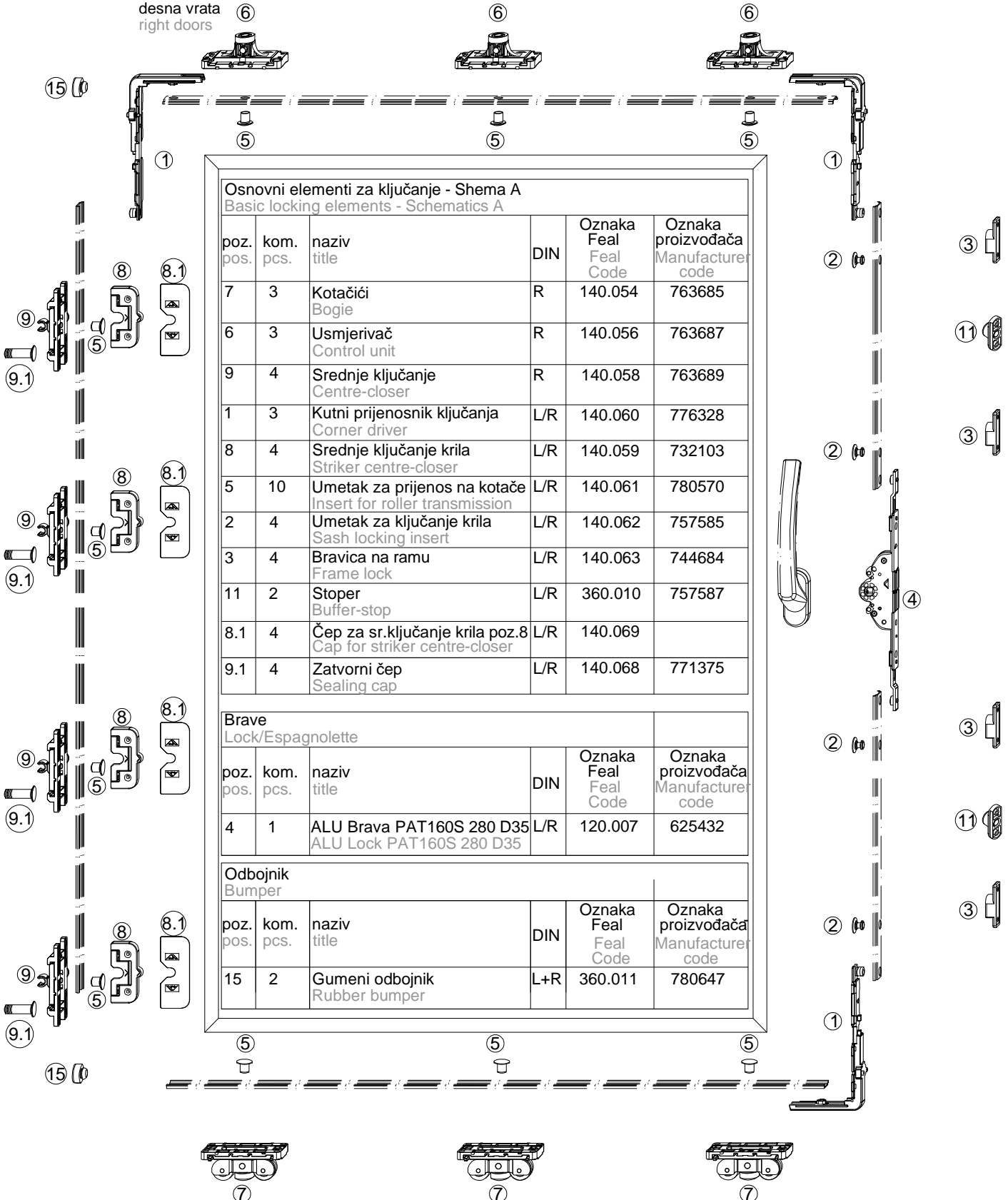
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacture code
15	2	Gumeni odbojnik Rubber bumper	L+R	360.011	780647

- Osnovni set za klizna vrata INOWA (desna).....140.067
 - Basic set for slide doors INOWA (right).....140.067



desna vrata
right doors

Širina krila Lk Sash width Lsh	..... do 1500 mm up to 1500 mm
Visina krila Hkr Sash height Hsh	..... do 2500 mm up to 2500 mm
Težina krila Sash weight	..... max.200 kg max.200 kg

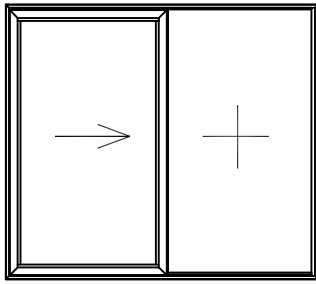


Osnovni elementi za ključanje - Shema A
 Basic locking elements - Schematics A

poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacturer code
7	3	Kotačići Bogie	R	140.054	763685
6	3	Usmjerivač Control unit	R	140.056	763687
9	4	Srednje ključanje Centre-closer	R	140.058	763689
1	3	Kutni prijenosnik ključanja Corner driver	L/R	140.060	776328
8	4	Srednje ključanje krila Striker centre-closer	L/R	140.059	732103
5	10	Umetak za prijenos na kotače Insert for roller transmission	L/R	140.061	780570
2	4	Umetak za ključanje krila Sash locking insert	L/R	140.062	757585
3	4	Bravica na ramu Frame lock	L/R	140.063	744684
11	2	Stoper Buffer-stop	L/R	360.010	757587
8.1	4	Čep za sr.ključanje krila poz.8 Cap for striker centre-closer	L/R	140.069	
9.1	4	Zatvorni čep Sealing cap	L/R	140.068	771375

Brave Lock/Espagnolette					
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacturer code
4	1	ALU Brava PAT160S 280 D35 ALU Lock PAT160S 280 D35	L/R	120.007	625432

Odbojnik Bumper					
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacturer code
15	2	Gumeni odbojnik Rubber bumper	L+R	360.011	780647



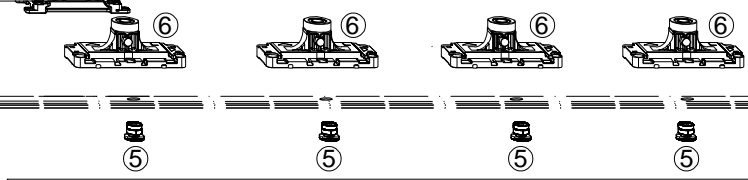
lijeva vrata
left doors

- Osnovni set za klizna vrata INOWA (lijeva).....**140.100**
- Basic set for slide door INOWA (left).....**140.100**

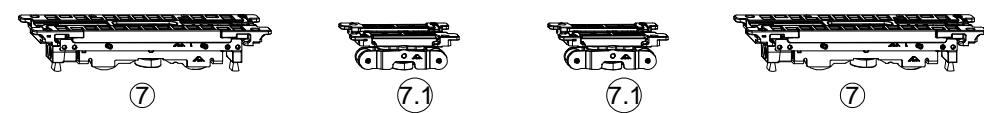
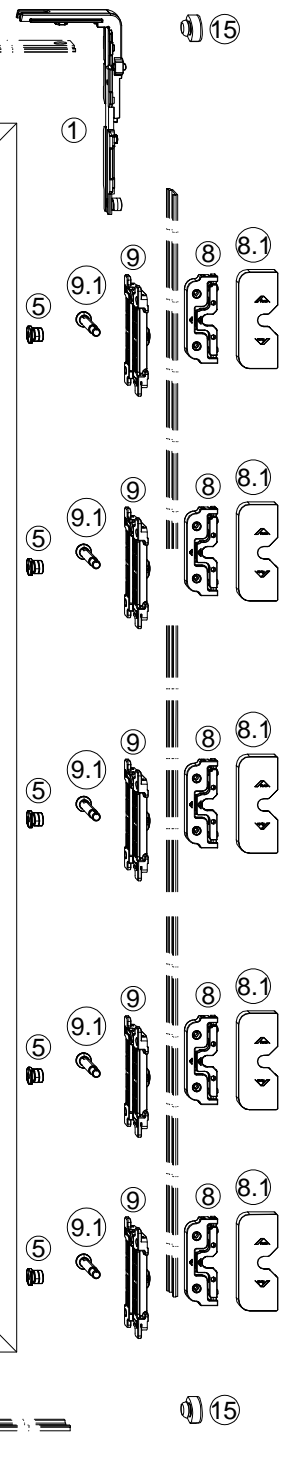
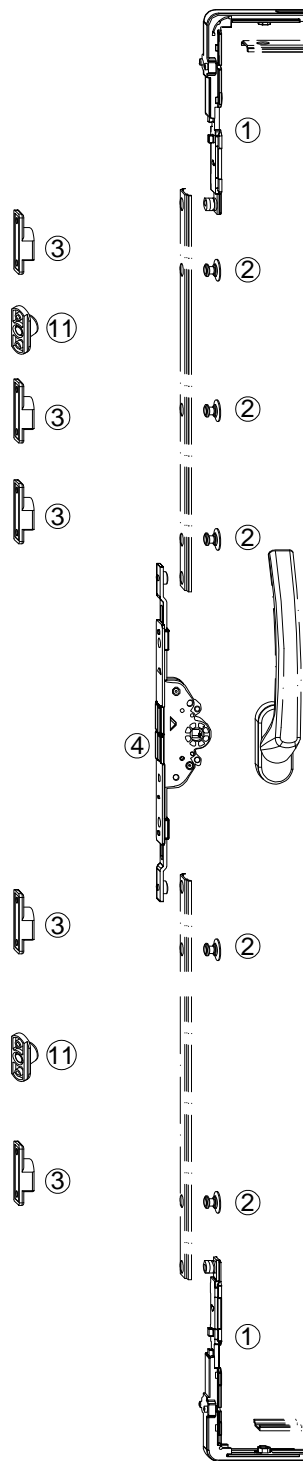
Širina krila Lk	.....	do 3000 mm
Sash width Lsh	.....	up to 3000 mm
Visina krila Hkr	.....	do 3600 mm
Sash height Hsh	.....	up to 3600 mm
Težina krila	.....	max.400 kg
Sash weight	.....	max.400 kg

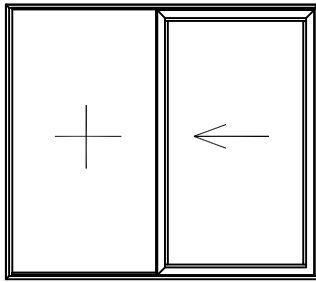
*Mogućnost ugradnje
*Possibility installation

6.1*



Osnovni elementi za ključanje - lijeva vrata Basic locking elements - left doors					
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code
7	2	Kotačići Bogie	L	140.090	862369
7.1	2	Kotačići za stabilizaciju Stabilisation bogie	L	140.104	891370
6	4	Usmjerivač Control unit	L	140.092	862373
6.1	1	Usporivač krila SoftStop	L	140.102	894400
9	5	Srednje ključanje Centre-closer	L	140.094	862397
1	3	Kutni prijenosnik ključanja Corner driver	L/R	140.096	781822
8	4	Srednje ključanje krila Striker centre-closer	L/R	140.097	793493
5	13	Umetak za prijenos na kotače Insert for roller transmission	L/R	140.098	200397
2	5	Umetak za ključanje krila Sash locking insert	L/R	140.062	757585
3	5	Bravica na ramu Frame lock	L/R	140.063	744684
11	3	Stoper Buffer-stop	L/R	360.016	757587
8.1	5	Čep za sr.ključanje krila Cap for striker centre-closer	L/R	140.069	787014
9.1	5	Zatvorni čep Sealing cap	L/R	140.099	858628
Brave Locks/Espagnolette					
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacturer code
4	1	ALU Brava PAT160S 280 D35 ALU Lock PAT160S 280 D35	L/R	120.007	625432
Odbojnik Bumper					
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Feal Code	Oznaka proizvođača Manufacturer code
15	2	Gumeni odbojnik Rubber bumper	L+R	360.011	780647



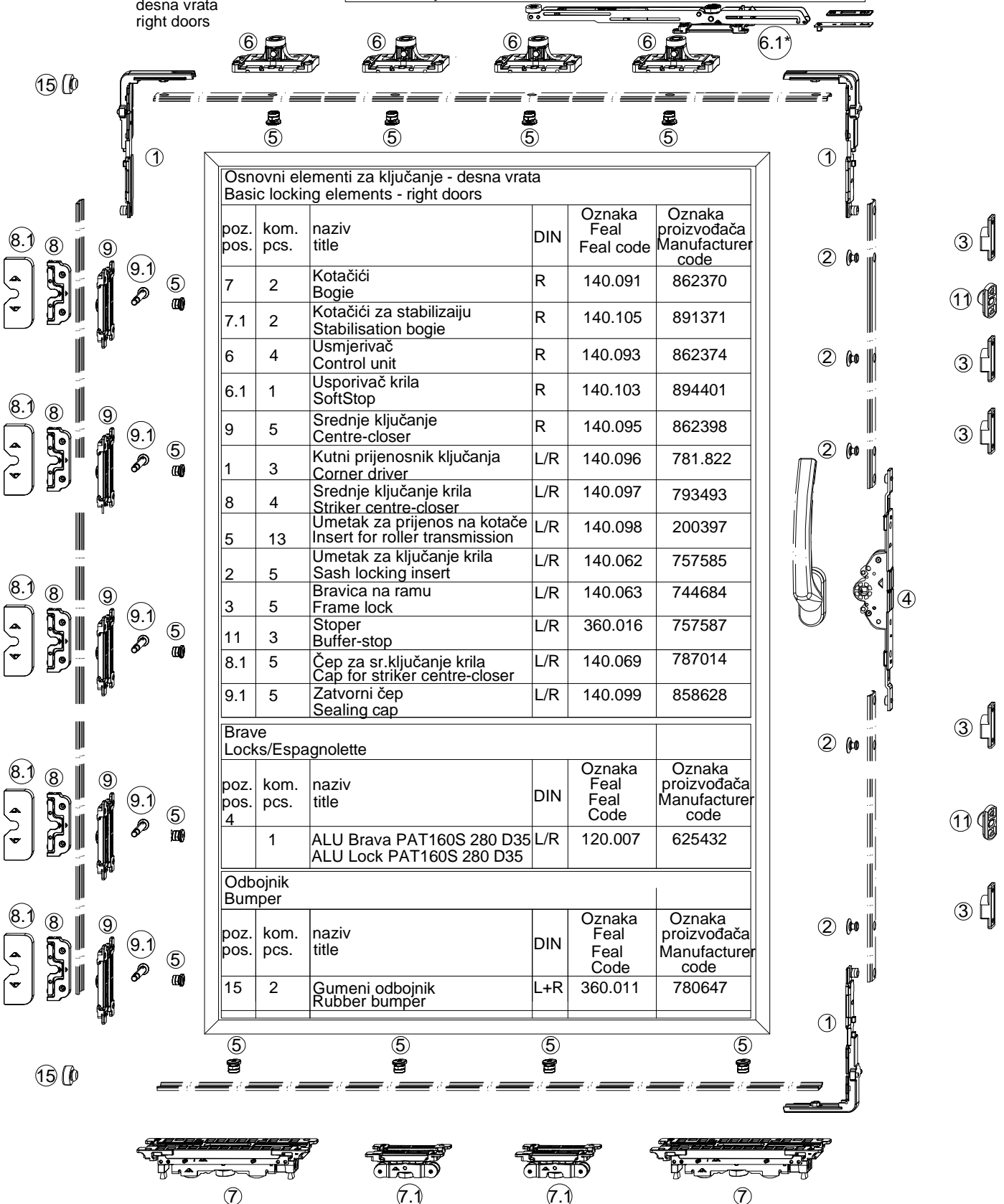


desna vrata
right doors

- Osnovni set za klizna vrata INOWA (desna).....**140.101**
- Basic set for slide door INOWA (right).....**140.101**

Širina krila Lk	.....	do 3000 mm
Sash width Lsh	.....	up to 3000 mm
Visina krila Hkr	.....	do 3600 mm
Sash height Hsh	.....	up to 3600 mm
Težina krila	.....	max.400 kg
Sash weight	.....	max.400 kg

*Mogućnost ugradnje
*Possibility installation



Osnovni elementi za ključanje - desna vrata
Basic locking elements - right doors

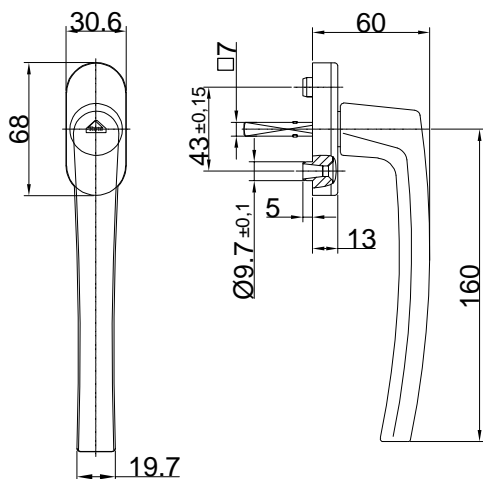
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal code	Oznaka proizvođača Manufacturer code
7	2	Kotačići Bogie	R	140.091	862370
7.1	2	Kotačići za stabilizaciju Stabilisation bogie	R	140.105	891371
6	4	Usmjerivač Control unit	R	140.093	862374
6.1	1	Usporivač krila SoftStop	R	140.103	894401
9	5	Srednje ključanje Centre-closer	R	140.095	862398
1	3	Kutni prijenosnik ključanja Corner driver	L/R	140.096	781.822
8	4	Srednje ključanje krila Striker centre-closer	L/R	140.097	793493
5	13	Umetak za prijenos na kotače Insert for roller transmission	L/R	140.098	200397
2	5	Umetak za ključanje krila Sash locking insert	L/R	140.062	757585
3	5	Bravica na ramu Frame lock	L/R	140.063	744684
11	3	Stoper Buffer-stop	L/R	360.016	757587
8.1	5	Čep za sr.ključanje krila Cap for striker centre-closer	L/R	140.069	787014
9.1	5	Zatvorni čep Sealing cap	L/R	140.099	858628

Brave
Locks/Espagnolette

poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Code	Oznaka proizvođača Manufacturer code
4	1	ALU Brava PAT160S 280 D35 ALU Lock PAT160S 280 D35	L/R	120.007	625432

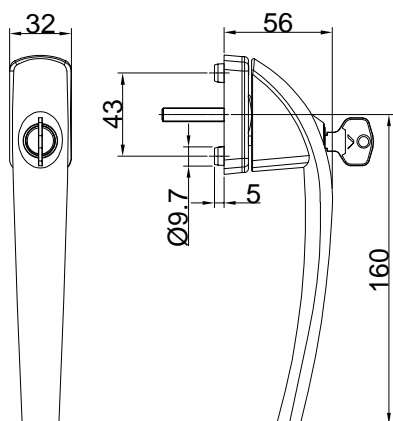
Odbojnik
Bumper

poz. pos.	kom. pcs.	naziv title	DIN	Oznaka Feal Code	Oznaka proizvođača Manufacturer code
15	2	Gumeni odbojnik Rubber bumper	L+R	360.011	780647



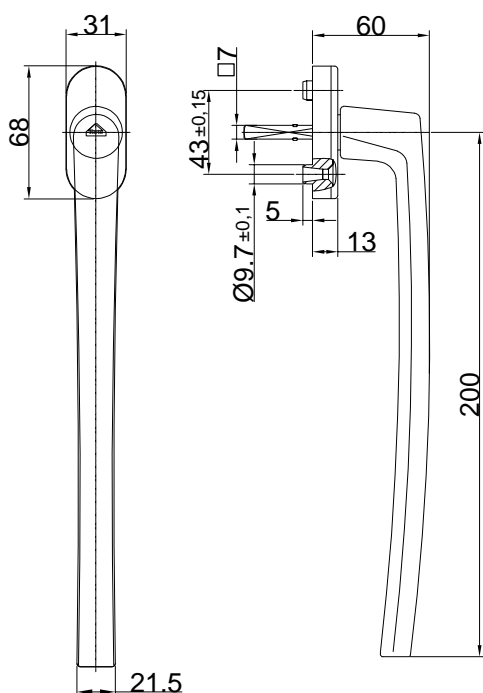
Ručka Roto Line Patio S
Handle Roto Line Patio S

Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine Spindle length
100.007.06	601161	Srebrna (R01.1) Silver (R01.1)	43
100.007.03	784945	Crna (R06.2M) Black (R06.2M)	43
100.007.01	601166	Bijela (R07.2) White (R07.2)	43



Ručka Roto Swing Patio S
Handle Roto Swing Patio S

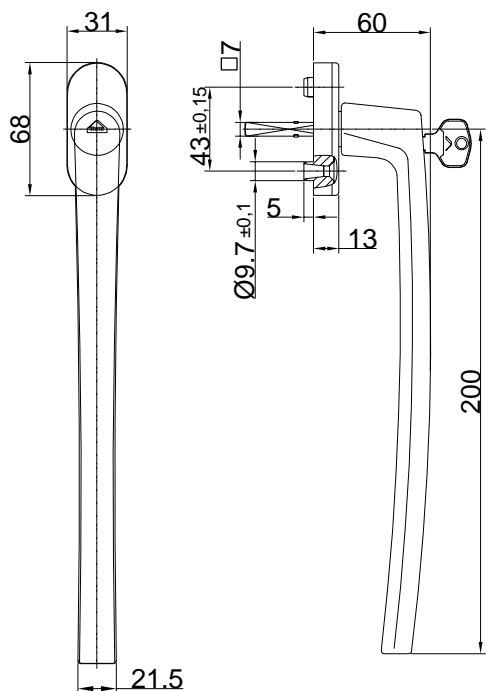
Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine Spindle length
100.011.06	619739	Srebrna (R01.1) Silver (R01.1)	43
100.011.10	619740	Elox svijetla bronca R05.3 Elox bright bronze R05.3	43
100.011.01	619741	Bijela (R07.2) White (R07.2)	43



Ručka Roto Line Patio S
Handle Roto Line Patio S

Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine Spindle length
100.014.06	780551	Srebrna (R01.1) Silver (R01.1)	43
100.014.03	786716	Crna (R06.2M) Black (R06.2M)	43
100.014.01	780584	Bijela (R07.2) White (R07.2)	43

NAPOMENA: TREĆI BROJ U OZNACI RUČKE OZNAČAVA BOJU (01-bijela; 03-crna; 05-smeđa; 06-srebrna; 10-odabir prema Elox karti)
REMARK: THIRD NUMBER IN HANDLE CODE INDICATES COLOR (01-white; 03-black; 05-brown; 06-silver; 10-Elox card choosing)

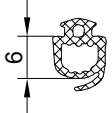
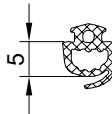
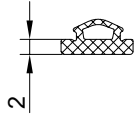
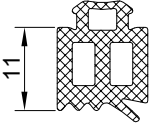
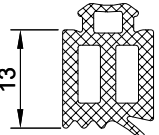


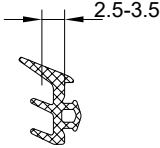
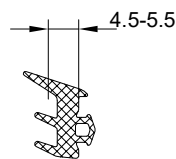
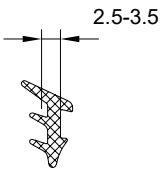
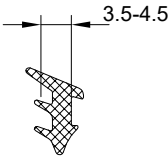
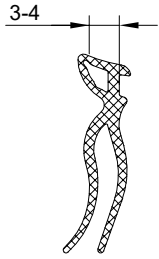
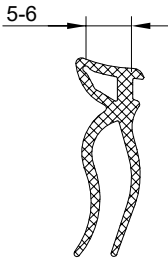
Ručka Roto Line Patio S
Handle Roto Line Patio S

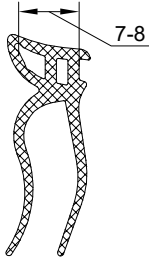
Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine □7 Spindle length □7
100.015.06	780593	Srebrna (R01.1) Silver (R01.1)	43
100.015.03	787004	Crna (R06.2M) Black (R06.2M)	43
100.015.01	780598	Bijela (R07.2) White (R07.2)	43

NAPOMENA: TREĆI BROJ U OZNACI RUČKE OZNAČAVA BOJU (01-bijela; 03-crna; 05-smeđa; 06-srebrna; 10-odabir prema Elox karti)
REMARK: THIRD NUMBER IN HANDLE CODE INDICATES COLOR (01-white; 03-black; 05-brown; 06-silver; 10-Elox card choosing)


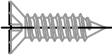
Brtila Gaskets

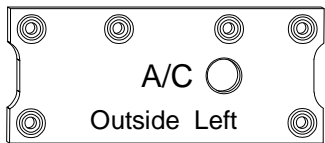
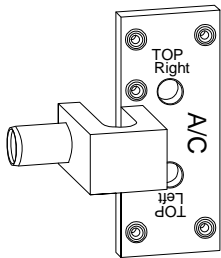
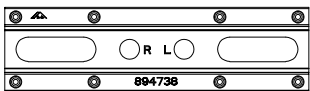
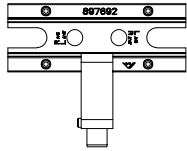
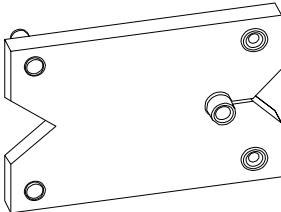
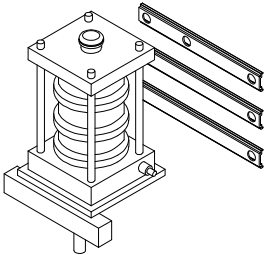
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
341.011		- Unutarnja brtva između rama i krila - Interior gasket between frame and sash	EPDM	
341.012		- Vanjska brtva između rama i krila - Exterior gasket between frame and sash	EPDM	
341.010		- Brtva za vertikalnu i horizontalnu masku - Gasket for vertical and horizontal mask	EPDM	
351.016		- Brtva između maske i rama - Gasket between mask and frame	EPDM	
351.017		- Brtva između maske i rama - Gasket between mask and frame	EPDM	

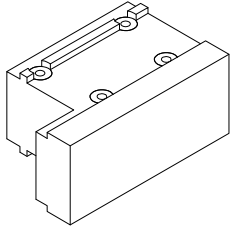
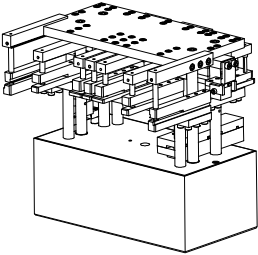
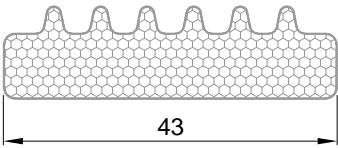
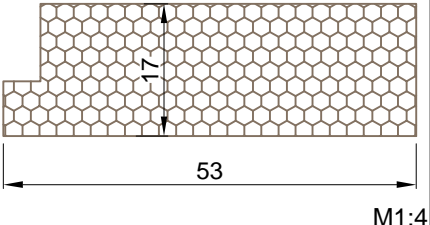
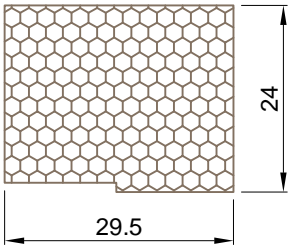
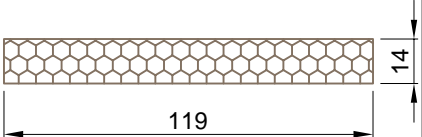
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
321.002		<ul style="list-style-type: none"> - Brtva prema staklu /vanjska/ - Stara oznaka 210.001.140 (Z111) - Gasket to the glass /exterior/ - Former code 210.001.140 (Z111) 	EPDM	
321.003		<ul style="list-style-type: none"> - Brtva prema staklu /vanjska/ - Stara oznaka 210.001.142 (Z113) - Gasket to the glass /exterior/ - Former code 210.001.142 (Z113) 	EPDM	
311.001		<ul style="list-style-type: none"> - Brtva prema staklu /unutarnja/ - Stara oznaka 210.001.125 (921) - Gasket to the glass /interior/ - Former code 210.001.125 (921) 	EPDM	
311.002		<ul style="list-style-type: none"> - Brtva prema staklu /unutarnja/ - Stara oznaka 210.001.123 (918) - Gasket to the glass /interior/ - Former code 210.001.123 (918) 	EPDM	
311.003		<ul style="list-style-type: none"> - Brtva prema staklu /unutarnja,nosi 3-4 mm/ - Gasket to the glass /interior,carries 3-4 mm/ 	EPDM	
311.004		<ul style="list-style-type: none"> - Brtva prema staklu /unutarnja,nosi 5-6 mm/ - Gasket to the glass /interior,carries 5-6 mm/ 	EPDM	

Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoca Hardness (ShA)
311.005		<p>- Brtva prema staklu /unutarnja,nosi 7-8 mm/ - Gasket to the glass /interior,carries 7-8 mm/</p>	EPDM	

Dodaci
Accessories

Oznaka Code	Opis Description	Izgled-presjek View-cross section	Materijal Material	Napomena Remark
433.015	3.9x9.5 DIN 7981			
433.016	3.9x13 DIN 7981			
433.017	3.9x16 DIN 7981			
433.018	3.9x19 DIN 7981			
433.033	4.2x32 DIN 7981			
433.036	4.2x45 DIN 7981			
433.089	3.5x6.5 DIN 7982			
433.092	3.5x16 DIN 7982			
433.103	3.9x9.5 DIN 7982			
433.105	3.9x16 DIN 7982			
433.106	3.9x19 DIN 7982			
433.109	3.9x32 DIN 7982			

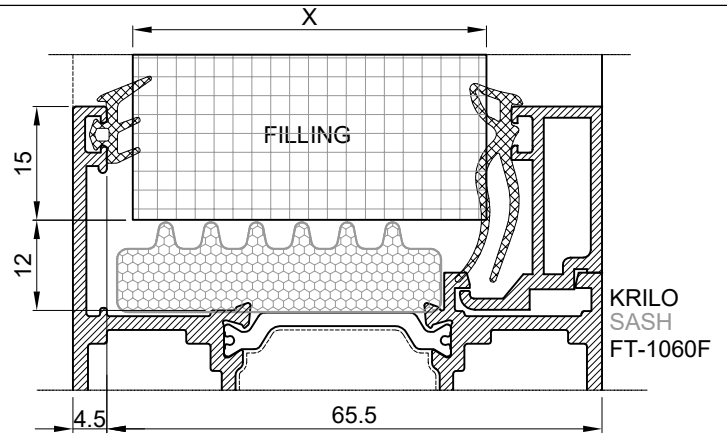
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
230.003		<ul style="list-style-type: none"> - Šablon za bušenje rupa za kotačiće i usmjerivač (oznaka proizvođača 763691) - Drilling template for bogie and control unit (manufacturer code 763691) 	Čelik Steel	
230.004		<ul style="list-style-type: none"> - Šablon za bušenje rupa na krilu za srednje ključanje (spoj krila i prečke) (oznaka proizvođača 763690) - Drilling template for sash for centre-closer (mullion and sash joint) (manufacturer code 763690) 	Čelik Steel	
230.030		<ul style="list-style-type: none"> - Šablon za bušenje rupa za kotačića Inowa 400kg (oznaka proizvođača 894738) - Drilling template for bogie Inowa 400kg (manufacturer code 894738) 	Čelik Steel	
230.031		<ul style="list-style-type: none"> - Šablon za bušenje rupa na krilu za srednje ključanje (spoj krila i prečke) Inowa 400kg (oznaka proizvođača 897692) - Drilling template for sash for centre-closer (mullion and sash joint) Inowa 400kg (manufacturer code 897692) 	Čelik Steel	
230.005		<ul style="list-style-type: none"> - Šablon za bušenje rupa na prečki za srednje ključanje (oznaka proizvođača 763241) - Drilling template for striker centre-closer on mullion (manufacturer code 763241) 	Čelik Steel	
210.011		<ul style="list-style-type: none"> - Pneumatska presa sa linearnim mjerilom (oznaka proizvođača 350309; mjerilo 350314) - Pneumatic press with linear measure (manufacturer code 350309; measure 350314) 		

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
230.008		<ul style="list-style-type: none"> - Šablon za bušenje rupa na ramu za prečku - Drilling template for frame mullion 	Čelik Steel	
210.006		<ul style="list-style-type: none"> - Pneumatska štanca za otklopno klizni mehanizam Inowa - Pneumatic press for sliding doors Inowa 		
340.013		<ul style="list-style-type: none"> -Ispuna po opsegu stakla -Izoterm plamaframe -Insulation around the glass -Isotherm plamaframe 	PPE	
340.070		<ul style="list-style-type: none"> - Izolacijski umetak na fiksnom dijelu (53x17) - Isolation insertion on the fixed segment (53x17) 	XPS	
340.071		<ul style="list-style-type: none"> - Izolacijski umetak između vertikalne maske i rama (29.5x24) - Isolation insertion between vertical mask and the frame (29.5x24) 	XPS	
340.421		<ul style="list-style-type: none"> - Izolacijski umetak za spoj sa fasadom (profil FT-0196F i FT-0197F) - Isolation insertion for connection with curtain wall (profile FT-0196F and FT-0197F) 	XPS	

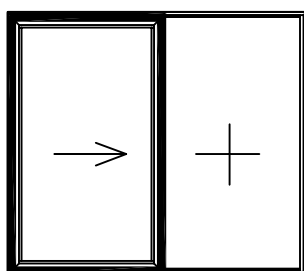
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark

Prikaz stakljenja Glazing

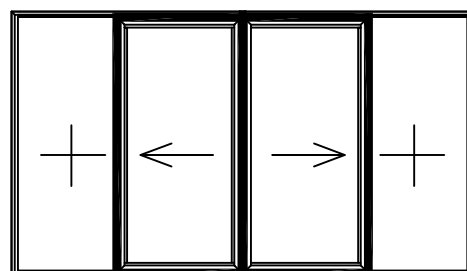
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets		
321.003 (Z113)	321.002 (Z111)	311.002 (918)	311.003	311.004
4.5-5.5	3.5	3.5-4.5	3-4	5-6



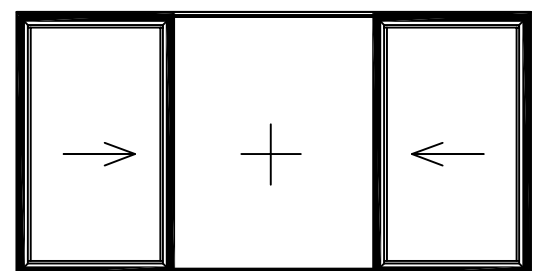
Ispuna X Glazing X	Vanjska brtva Exterior gasket	Unutarnja brtva Interior gasket	LAJSNE ZA STAKLO GLAZING BEADS			
24	321.003	311.004				
25-26	321.003	311.002				
27-28	321.002	311.003 (311.002)	Z40-653			
29	321.003	311.004				
30-31	321.003	311.002				
32-33	321.002	311.003 (311.002)	Z40-658			
34	321.003	311.004				
35-36	321.003	311.002				
37	321.002	311.002				
38	321.002	311.003 (311.002)	Z40-644	Z40-646	Z40-648	Z40-666
39	321.003	311.004				
40-41	321.003	311.002				
42	321.002	311.002	M45-709	M45-740	Z40-662	Z40-665
42-43	321.003	311.004				
44-45	321.002	311.004				
46	321.002	311.003 (311.002)				
44	321.003	311.004				
45-46	321.003	311.002	Z40-636	Z40-647	Z40-649	Z40-664



Schema A

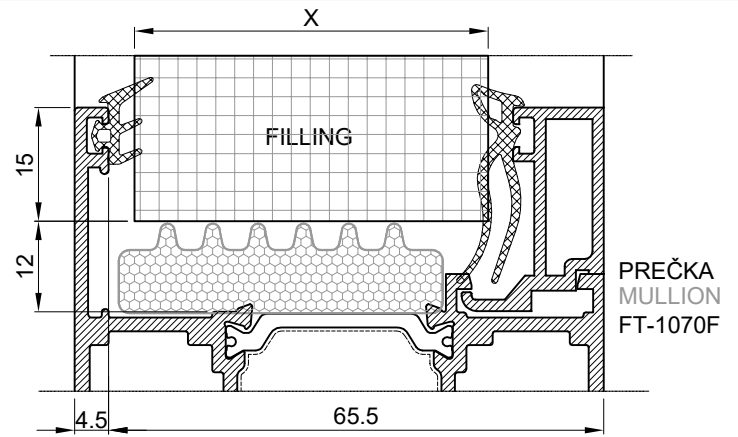


Schema C

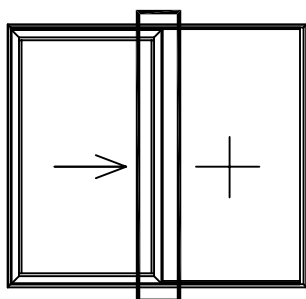


Schema K

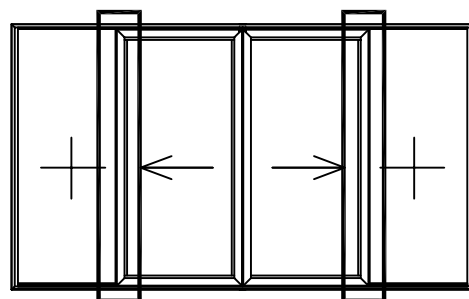
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets		
321.003 (Z113)	321.002 (Z111)	311.002 (918)	311.003	311.004
4.5-5.5	3.5	3.5-4.5	3-4	5-6



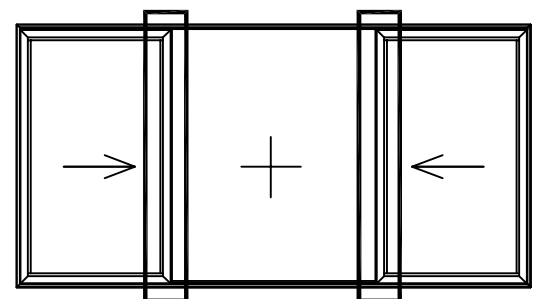
Ispuna X Glazing X	Vanjska brtva Exterior gasket	Unutarnja brtva Interior gasket	LAJSNE ZA STAKLO GLAZING BEADS			
24	321.003	311.004				
25-26	321.003	311.002				
27-28	321.002	311.003 (311.002)	Z40-653	Z40-653/B	Z40-661	Z40-668
29	321.003	311.004				
30-31	321.003	311.002				
32-33	321.002	311.003 (311.002)	Z40-658			Z40-667
34	321.003	311.004				
35-36	321.003	311.002				
37	321.002	311.002				
38	321.002	311.003 (311.002)	Z40-644	Z40-646	Z40-648	Z40-666
39	321.003	311.004				
40-41	321.003	311.002				
42	321.002	311.002	M45-709	M45-740	Z40-662	Z40-665
42-43	321.003	311.004				
44-45	321.002	311.004				F-0784
46	321.002	311.003 (311.002)				
44	321.003	311.004				
45-46	321.003	311.002	Z40-636	Z40-647	Z40-649	Z40-664



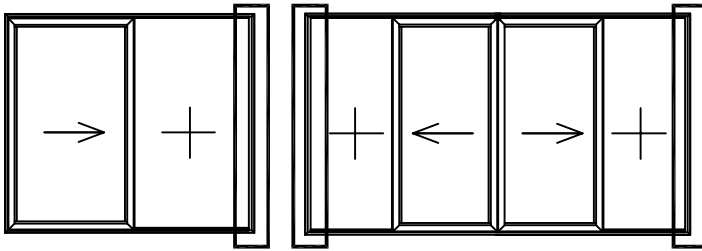
Shema A



Shema C



Shema K



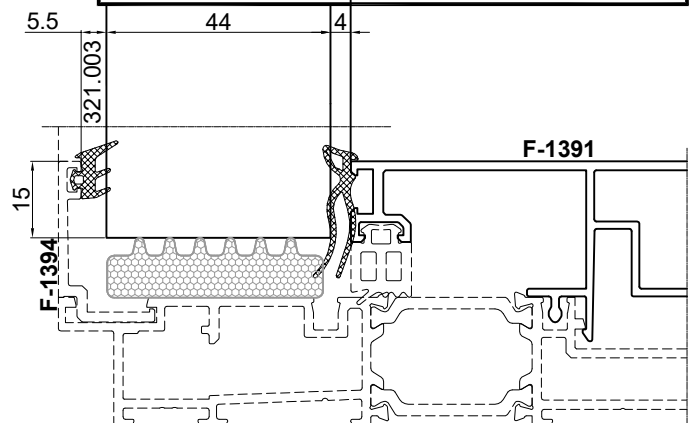
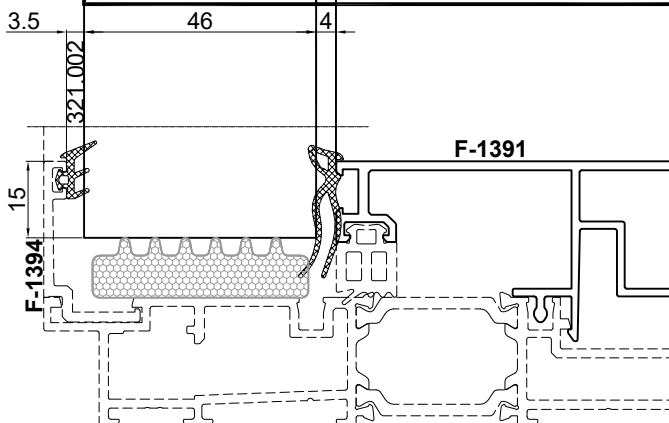
Schema A

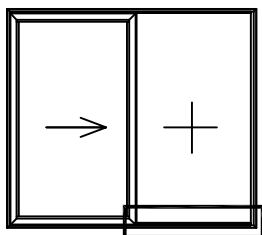
Schema C

Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
321.003 (Z113)	321.002 (Z111)	311.003	311.004
4.5-5.5	3.5	3-4	5-6
		A	B

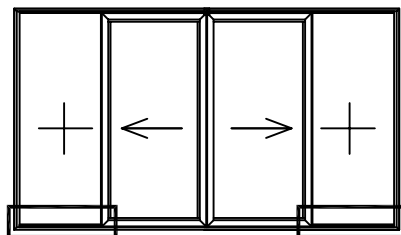
20	B	24	24	98	F-1391
21	B	24			FM 24/12
22	A				
26	B	18	18	98	F-1391
27	B	18			FM 21/12
28	A				
32	B	12	12	98	F-1391
33	B	12			FM 12/12
34	A				
38	B	6	6	98	F-1391
39	B	6			FM 6/12
40	A				
44	B			98	F-1391
45	B				
46	A				

18	B	24	24	98	F-1391
19	B	24			FM 24/12
24	B	18	18	98	F-1391
25	B	18			FM 21/12
30	B	12	12	98	F-1391
31	B	12			FM 12/12
36	B	6	6	98	F-1391
37	B	6			FM 6/12
42	B			98	F-1391
43	B				

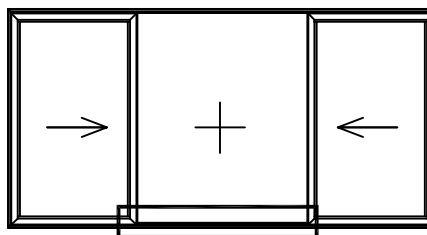




Schema A



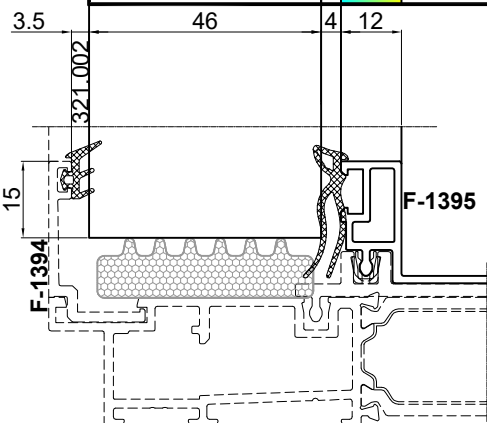
Schema C



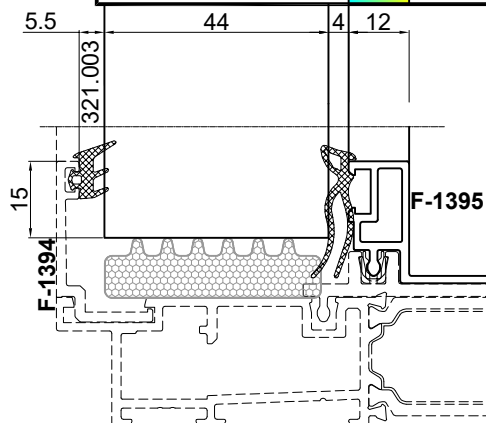
Schema K

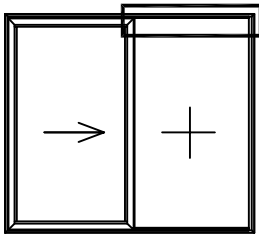
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
321.003 (Z113)	321.002 (Z111)	311.003	311.004
4.5-5.5	3.5	3-4	5-6
		A	B

20	B	36	24 12	F-1395 + FM 24/12
21	B			
22	A			
26	B	30	18 12	F-1395 + FM 21/12
27	B			
28	A			
32	B	24	12 12	F-1395 + FM 12/12
33	B			
34	A			
38	B	18	6 12	F-1395 + FM 6/12
39	B			
40	A			
44	B	12	12	F-1395
45	B			
46	A			

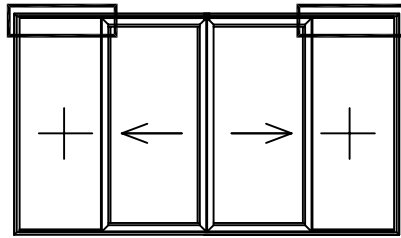


18	B	36	24 12	F-1395 + FM 24/12
19	B			
24	B			
24	B	30	18 12	F-1395 + FM 21/12
25	B			
30	B			
30	B	24	12 12	F-1395 + FM 12/12
31	B			
36	B			
36	B	18	6 12	F-1395 + FM 6/12
37	B			
42	B			
42	B	12	12	F-1395
43	B			
43	B			

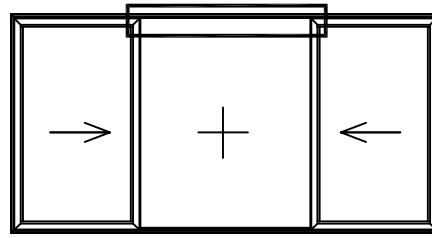




Schema A

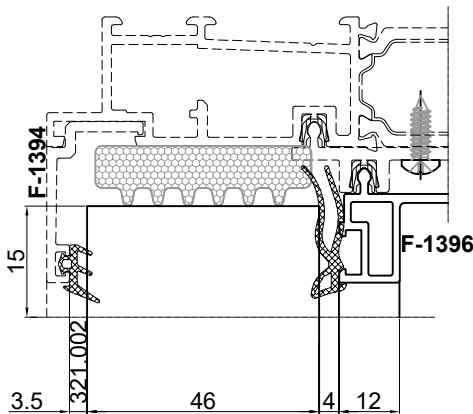


Schema C

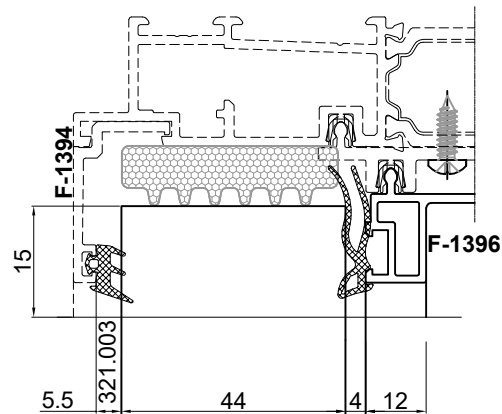


Schema K

Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
321.003 (Z113)	321.002 (Z111)	311.003	311.004
4.5-5.5	3.5	3-4	5-6
		A	B

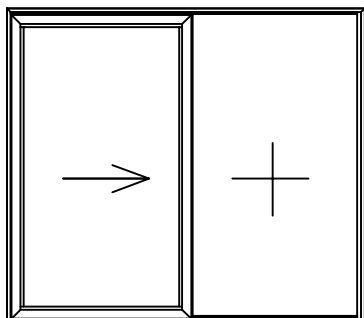


46	A	12	
45	B	12	
44	B	12	 F-1396
40	A	18	
39	B	18	 F-1396 + FM 6/12
38	B	12	 6 12 F-1396 + FM 6/12
34	A	24	
33	B	24	 F-1396 + FM 12/12
32	B	12	 12 12 F-1396 + FM 12/12
28	A	30	
27	B	30	 F-1396 + FM 21/12
26	B	18	 18 12 F-1396 + FM 21/12
22	A	36	
21	B	36	 F-1396 + FM 24/12
20	B	24	 24 12 F-1396 + FM 24/12

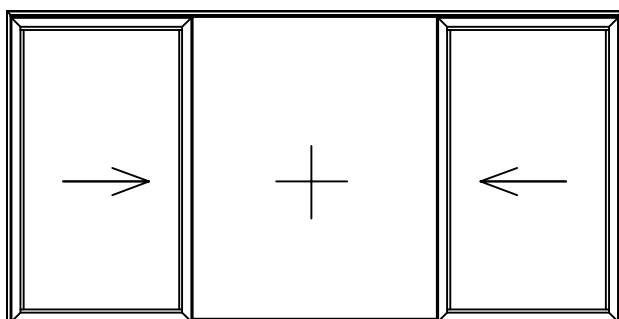


43	B	12	
42	B	12	 F-1396
37	B	18	 F-1396 + FM 6/12
36	B	6	 6 12 F-1396 + FM 6/12
31	B	24	 F-1396 + FM 12/12
30	B	12	 12 12 F-1396 + FM 12/12
25	B	30	 F-1396 + FM 21/12
24	B	18	 18 12 F-1396 + FM 21/12
19	B	36	 F-1396 + FM 24/12
18	B	24	 24 12 F-1396 + FM 24/12

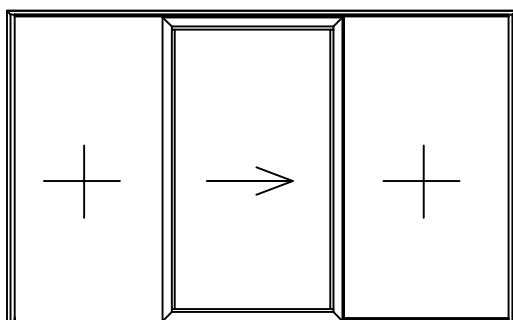
Presjeci Cross sections



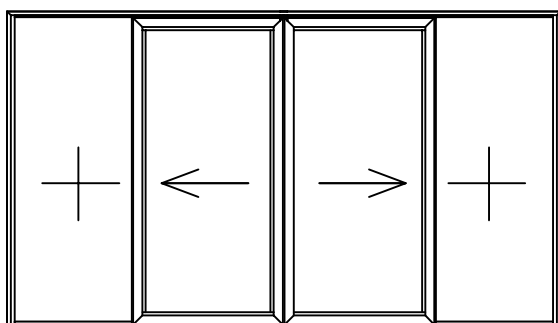
Shema A



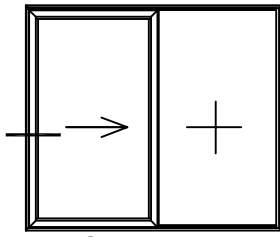
Shema K



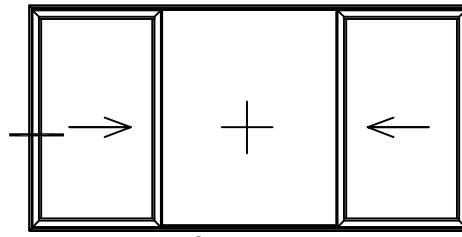
Shema D



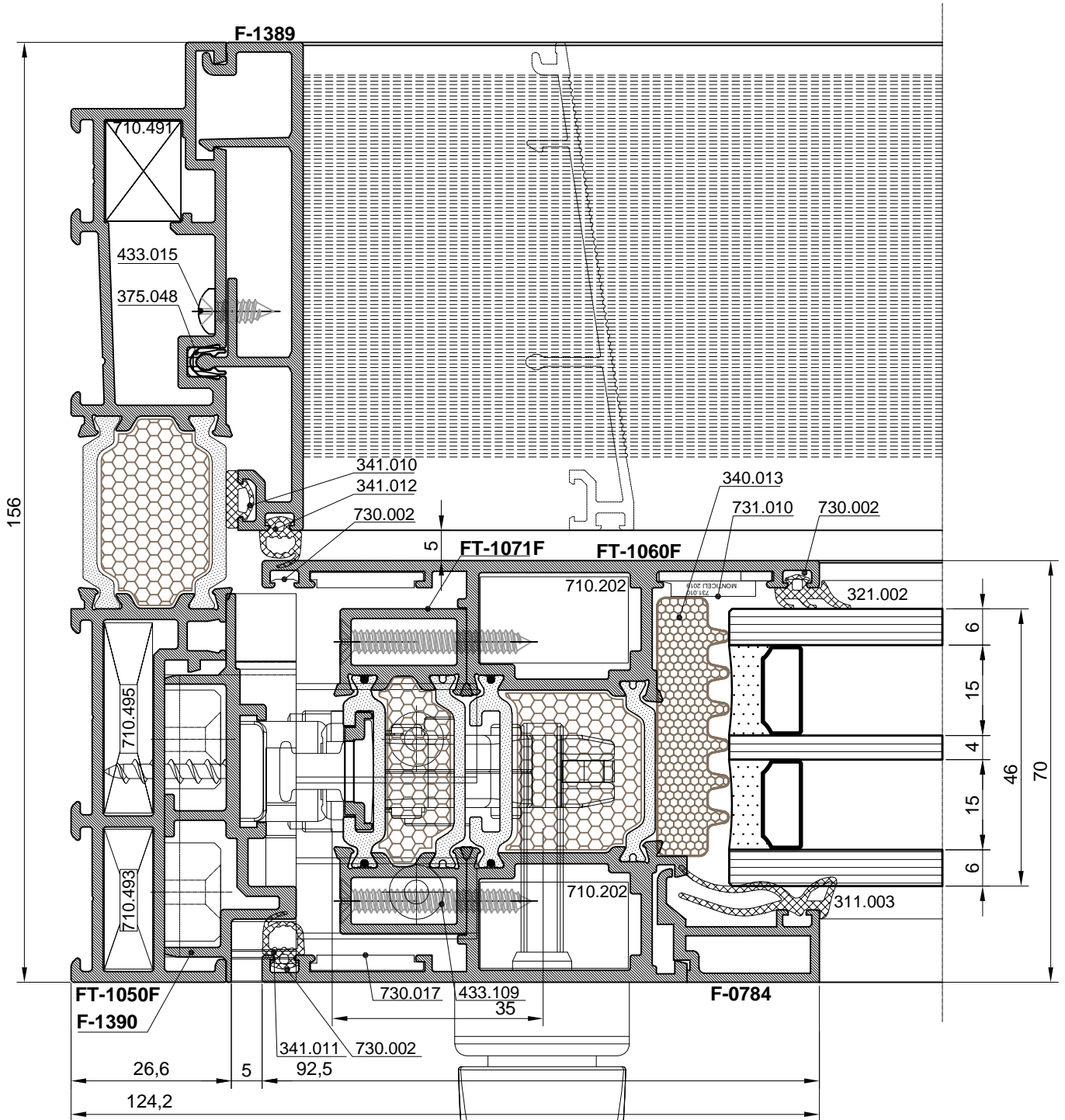
Shema C

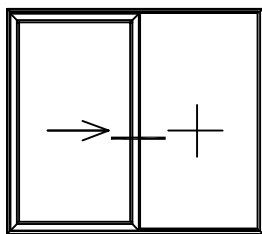


Shema A

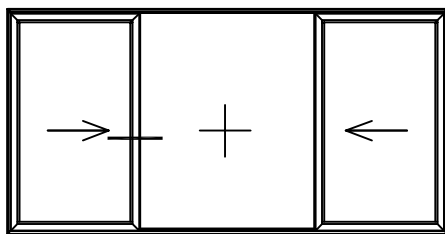


Shema K

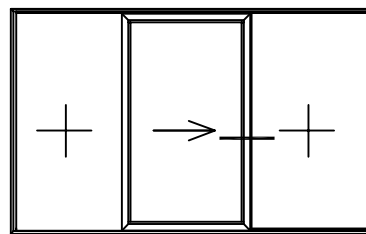




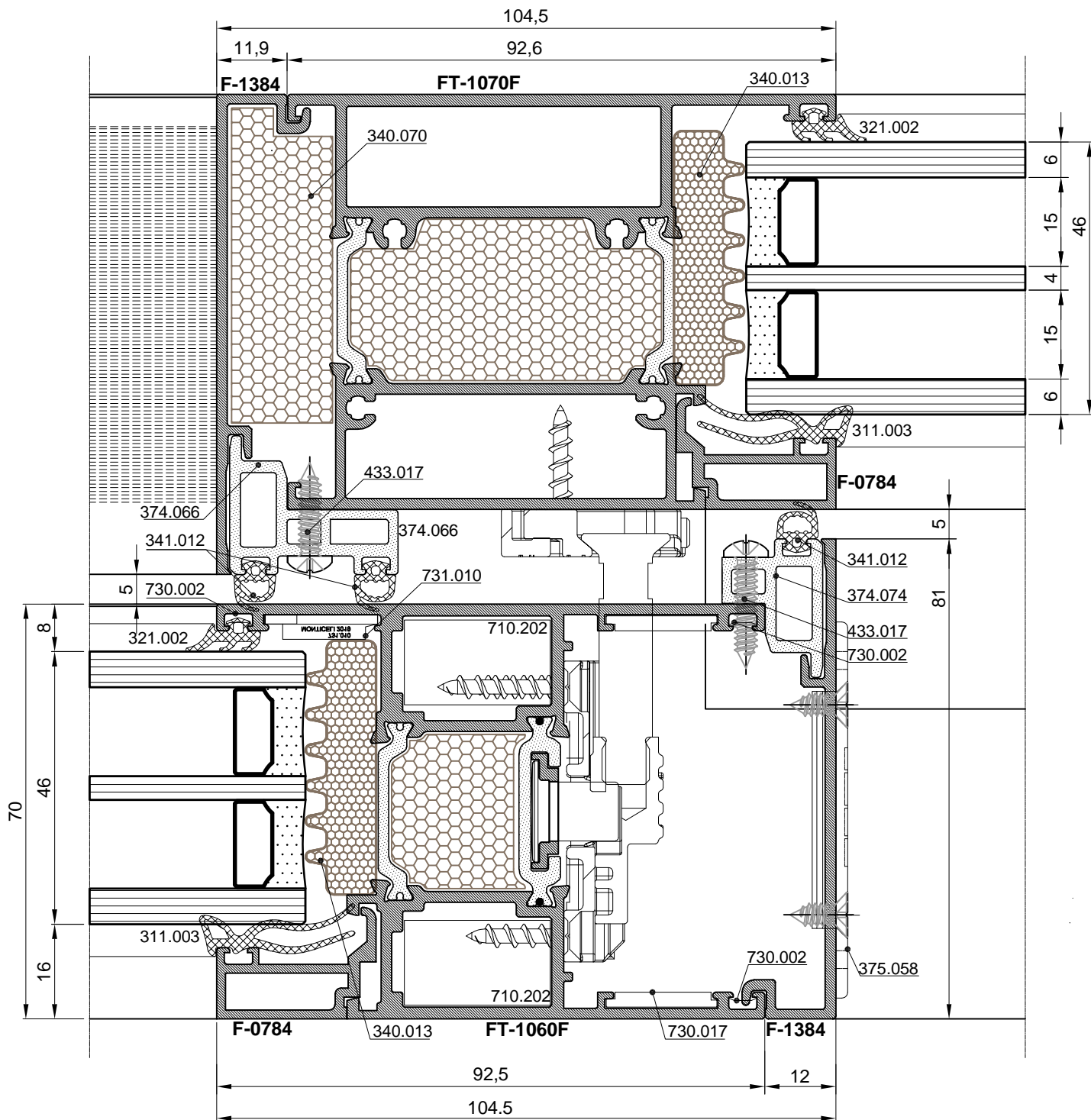
Shema A

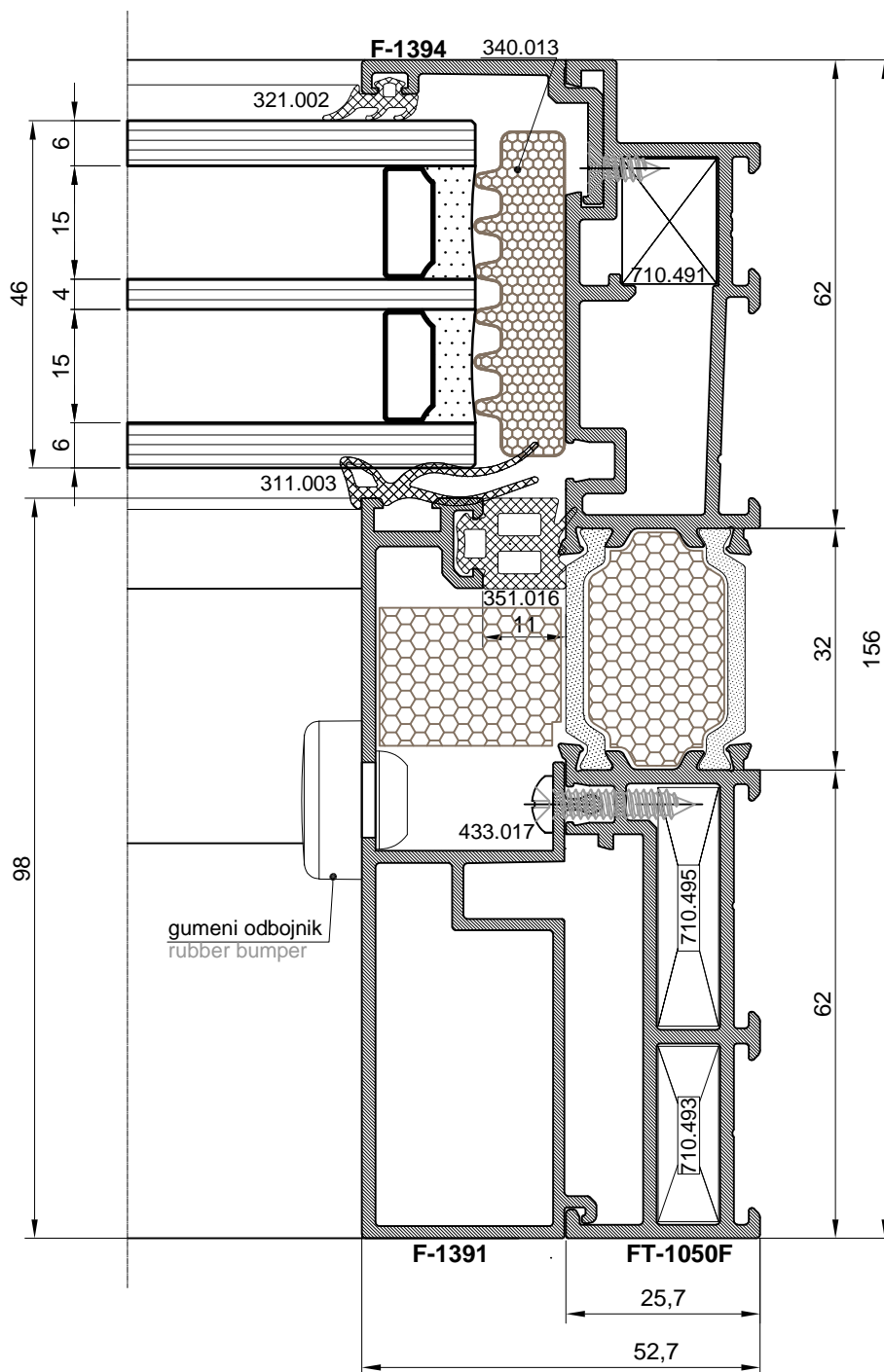
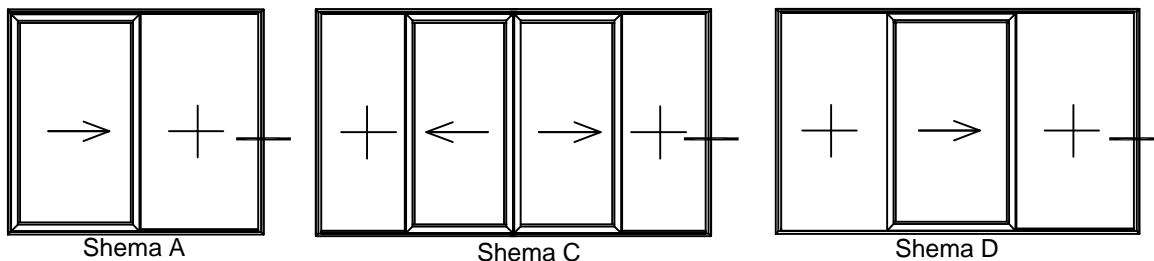


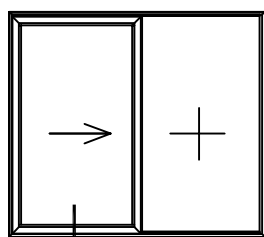
Shema K



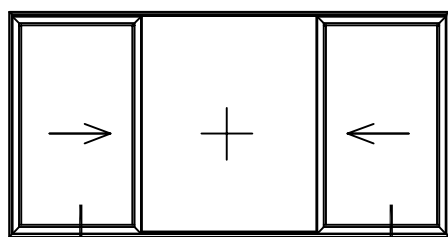
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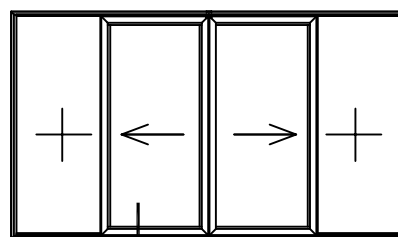




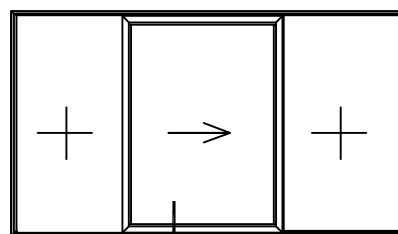
Schema A



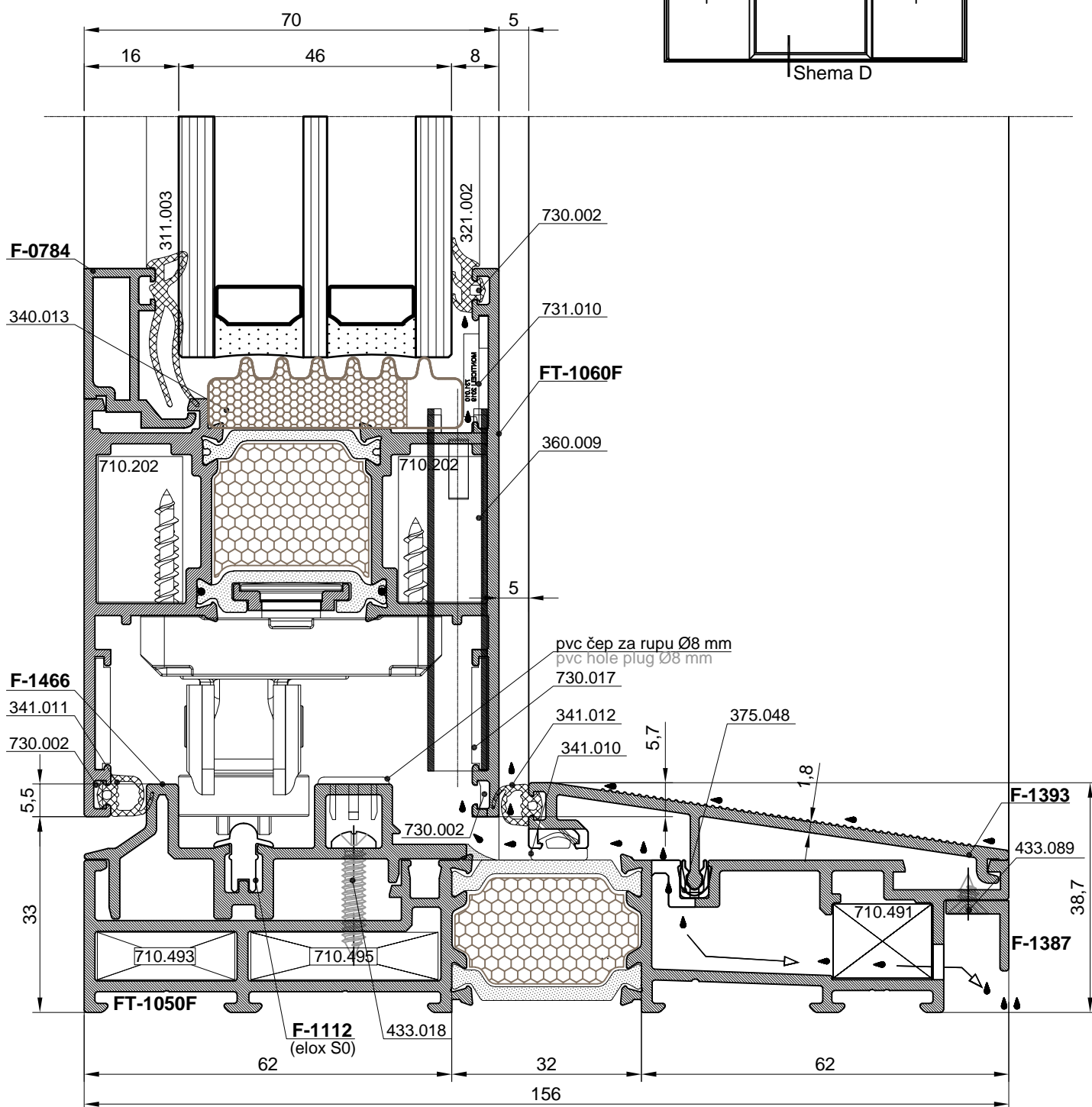
Schema K

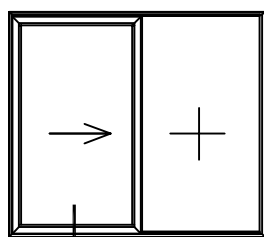


Schema C

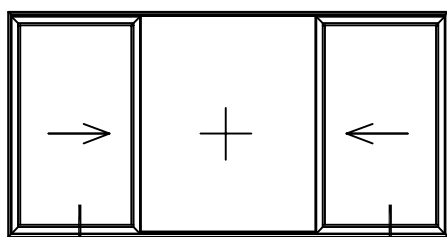


Schema D

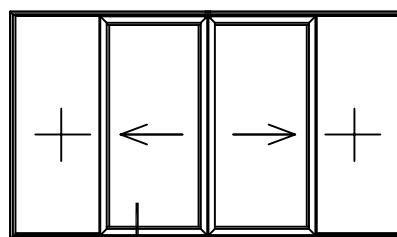




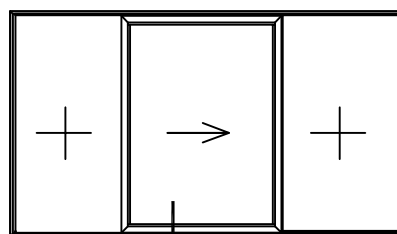
Shema A



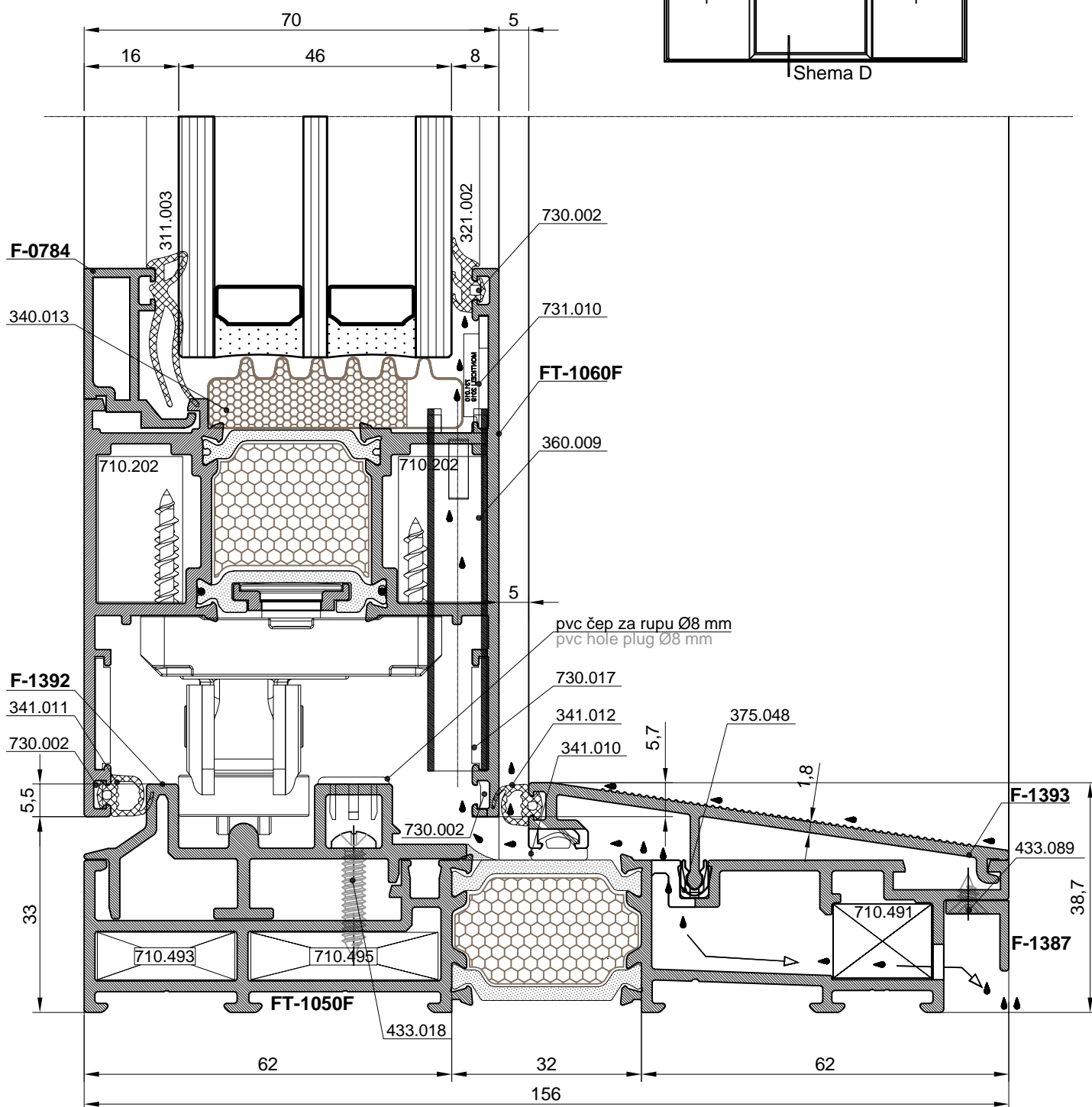
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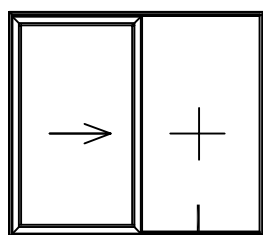


Shema C

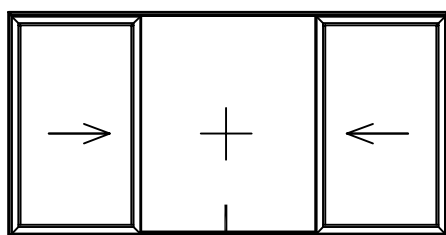


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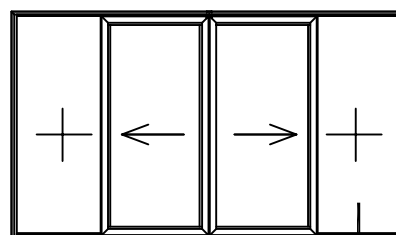




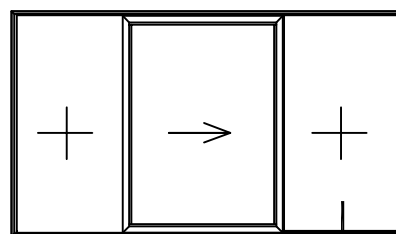
Shema A



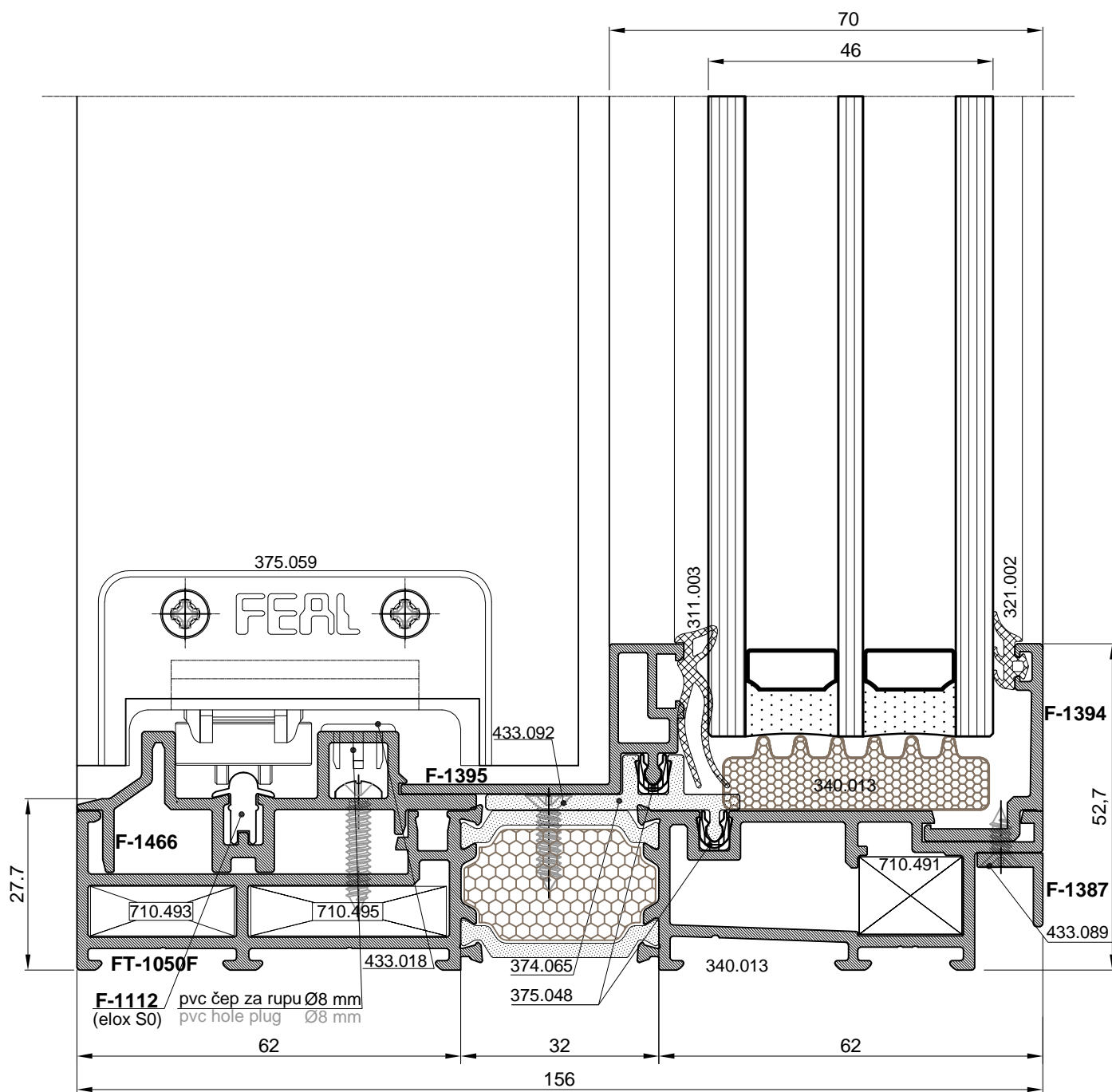
Shema K

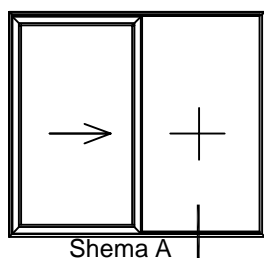


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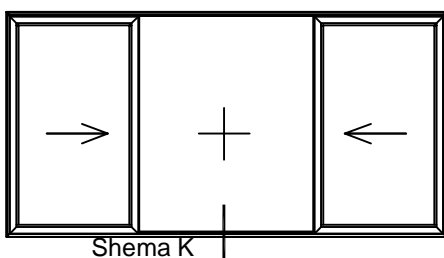


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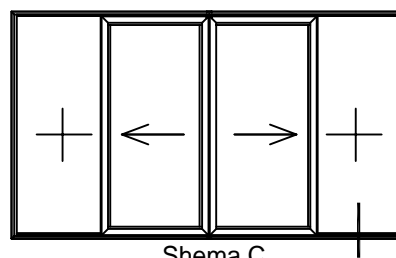




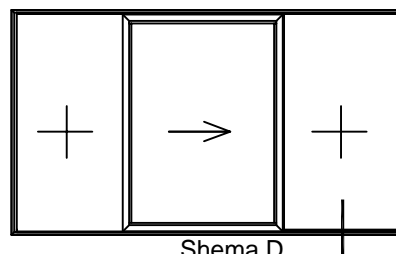
Shema A



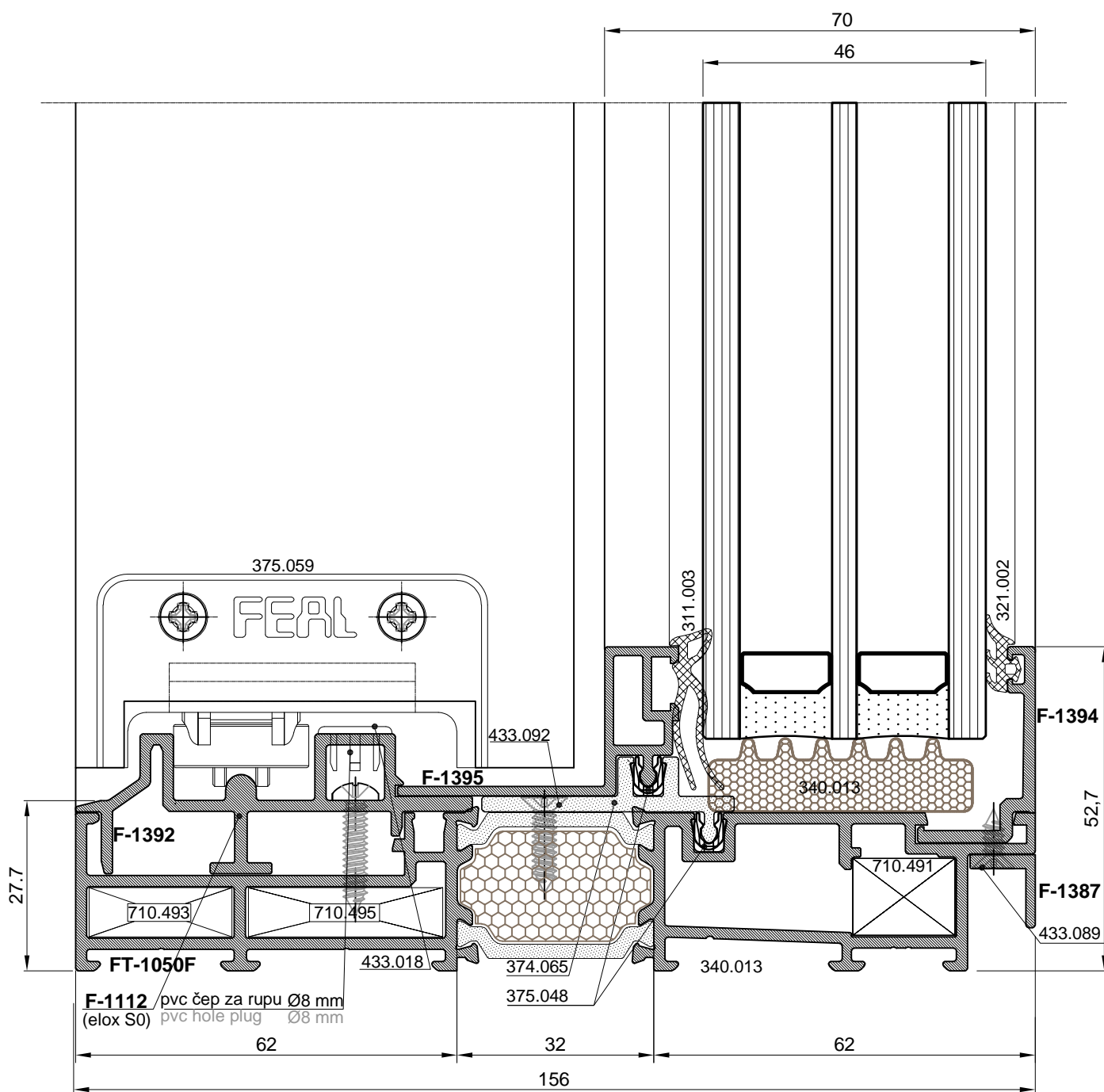
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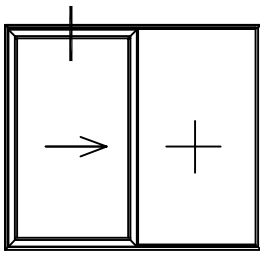


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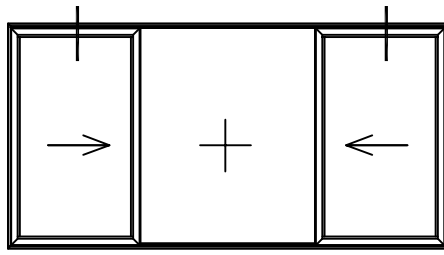


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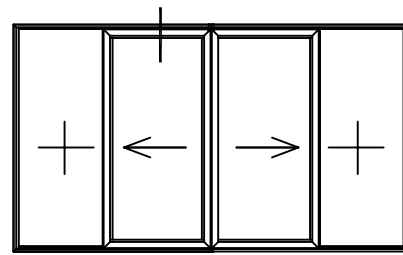




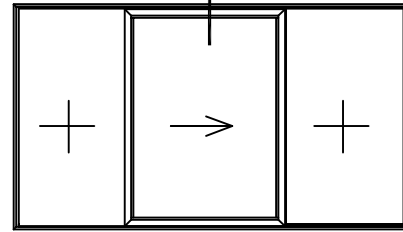
Schema A



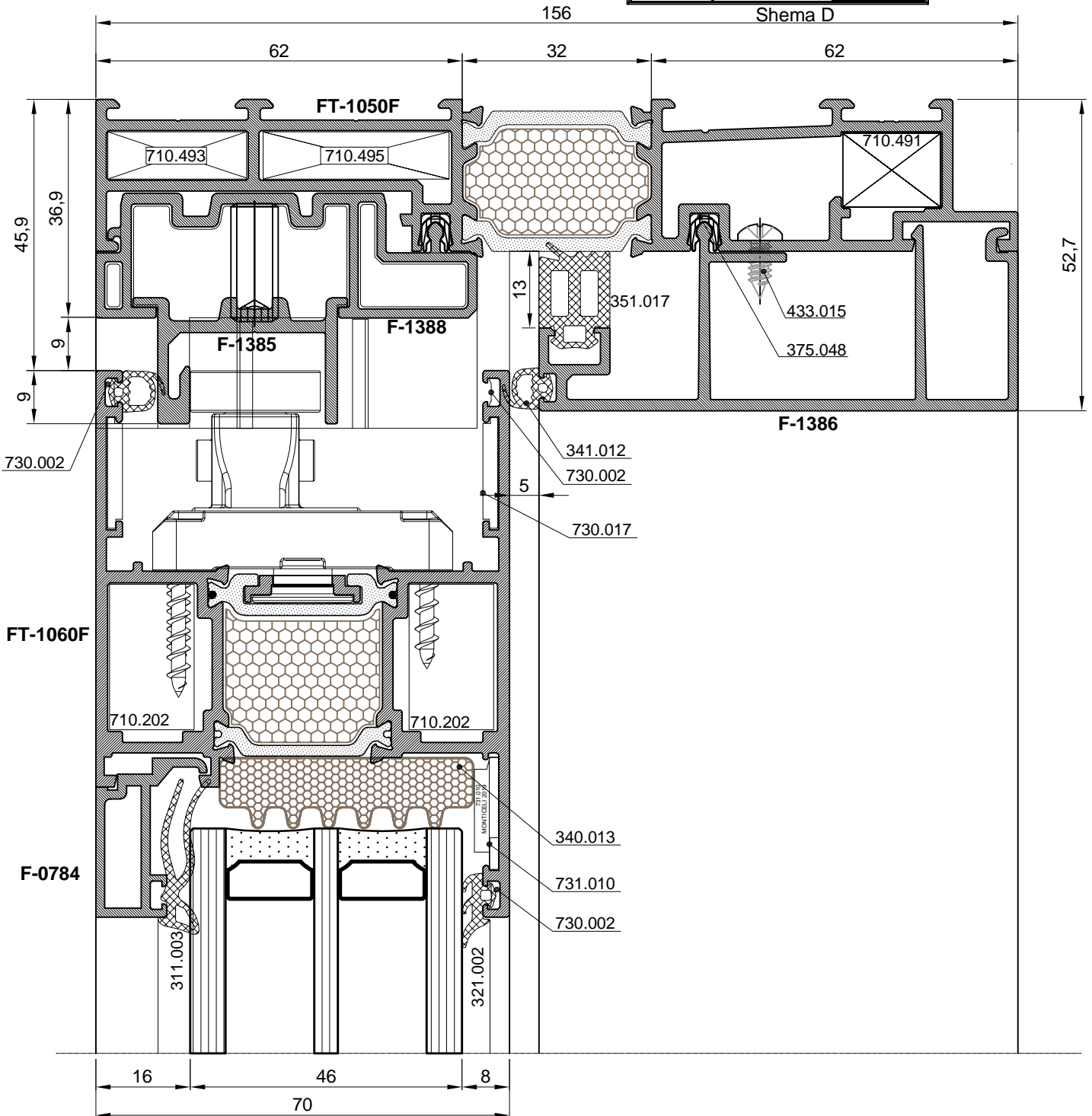
Schema K

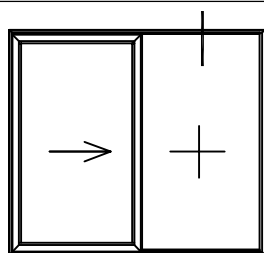


Schema C

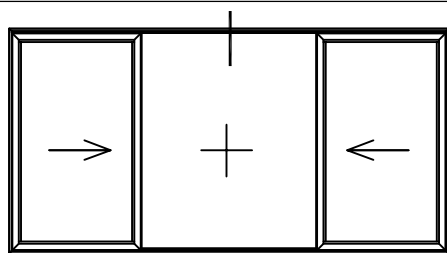


Schema D

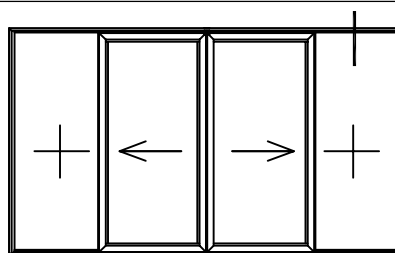




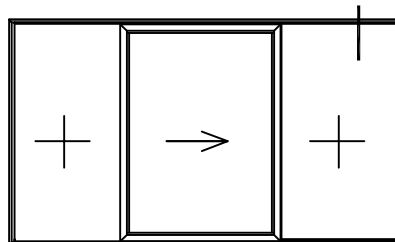
Shema A



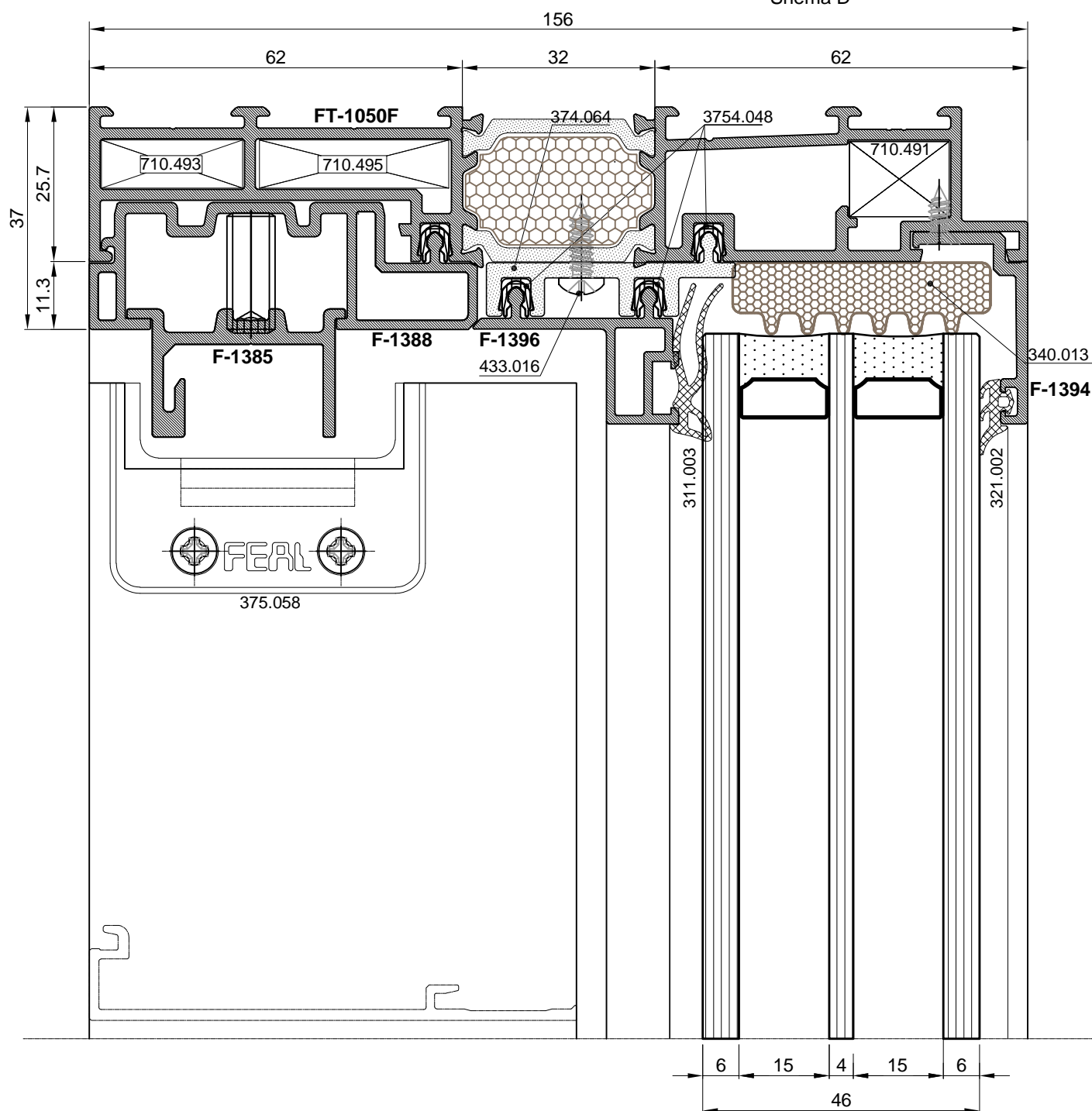
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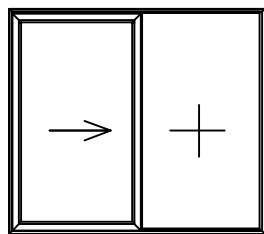


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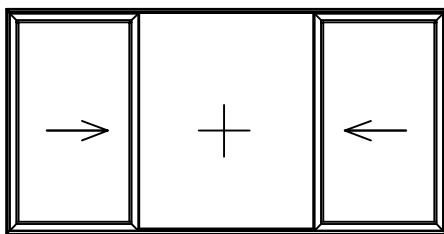


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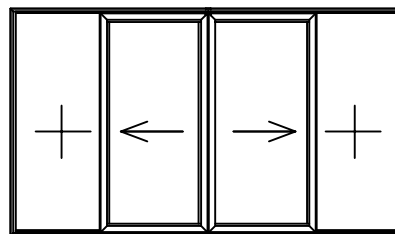




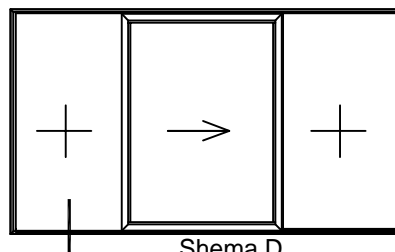
Shema A



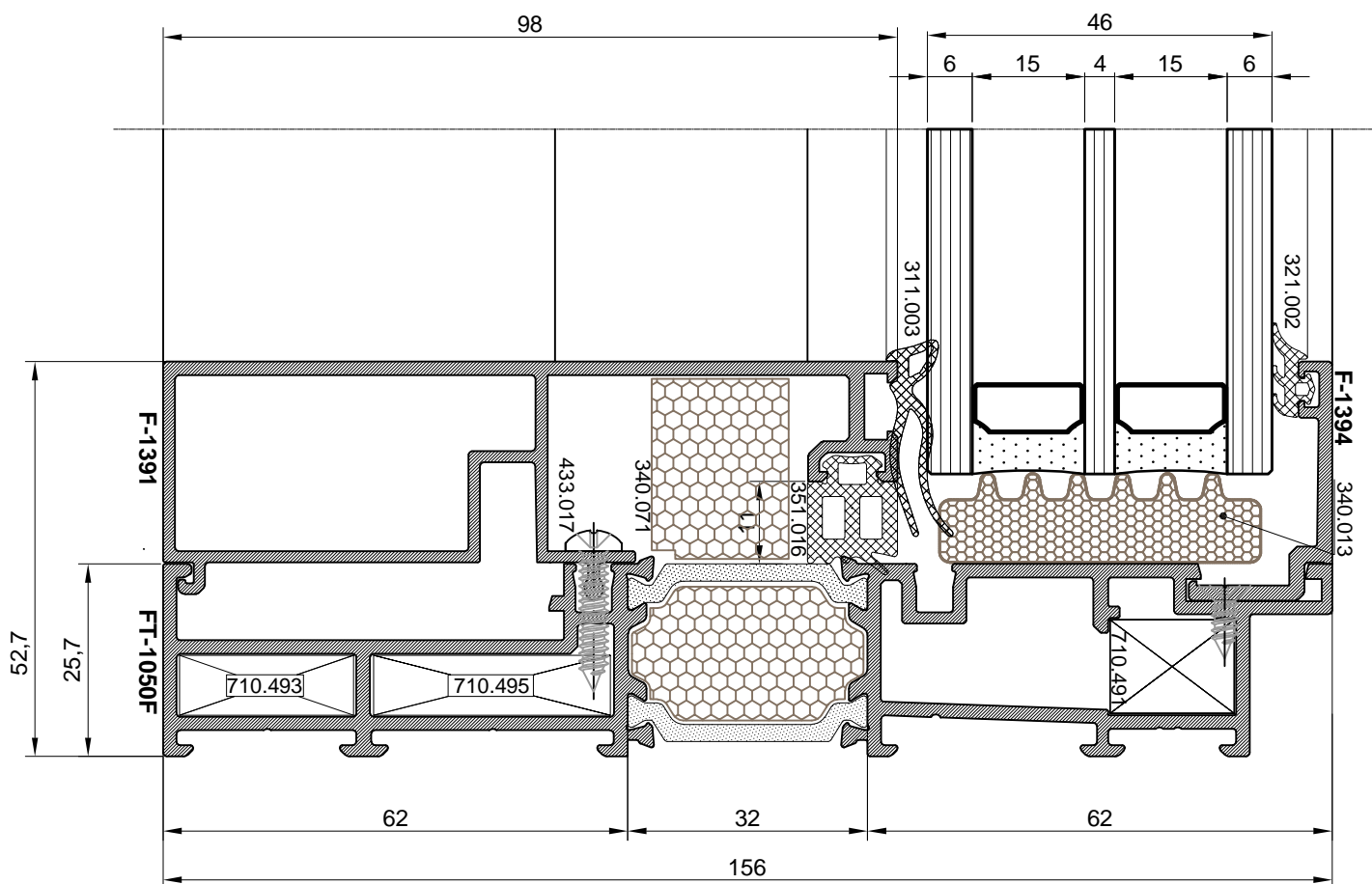
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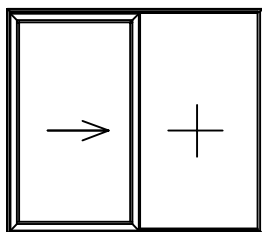


Shema C

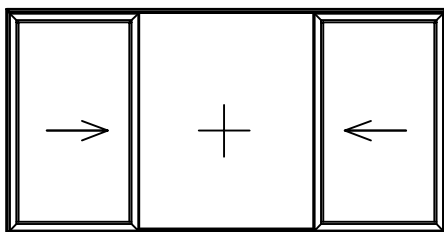


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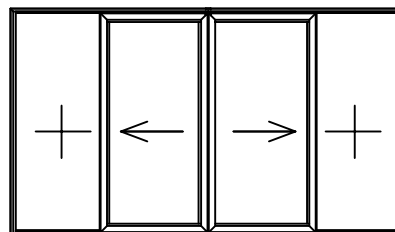




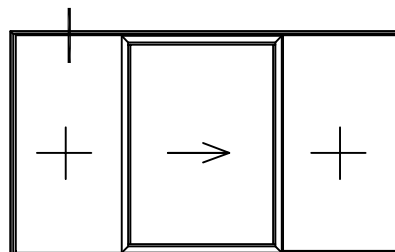
Shema A



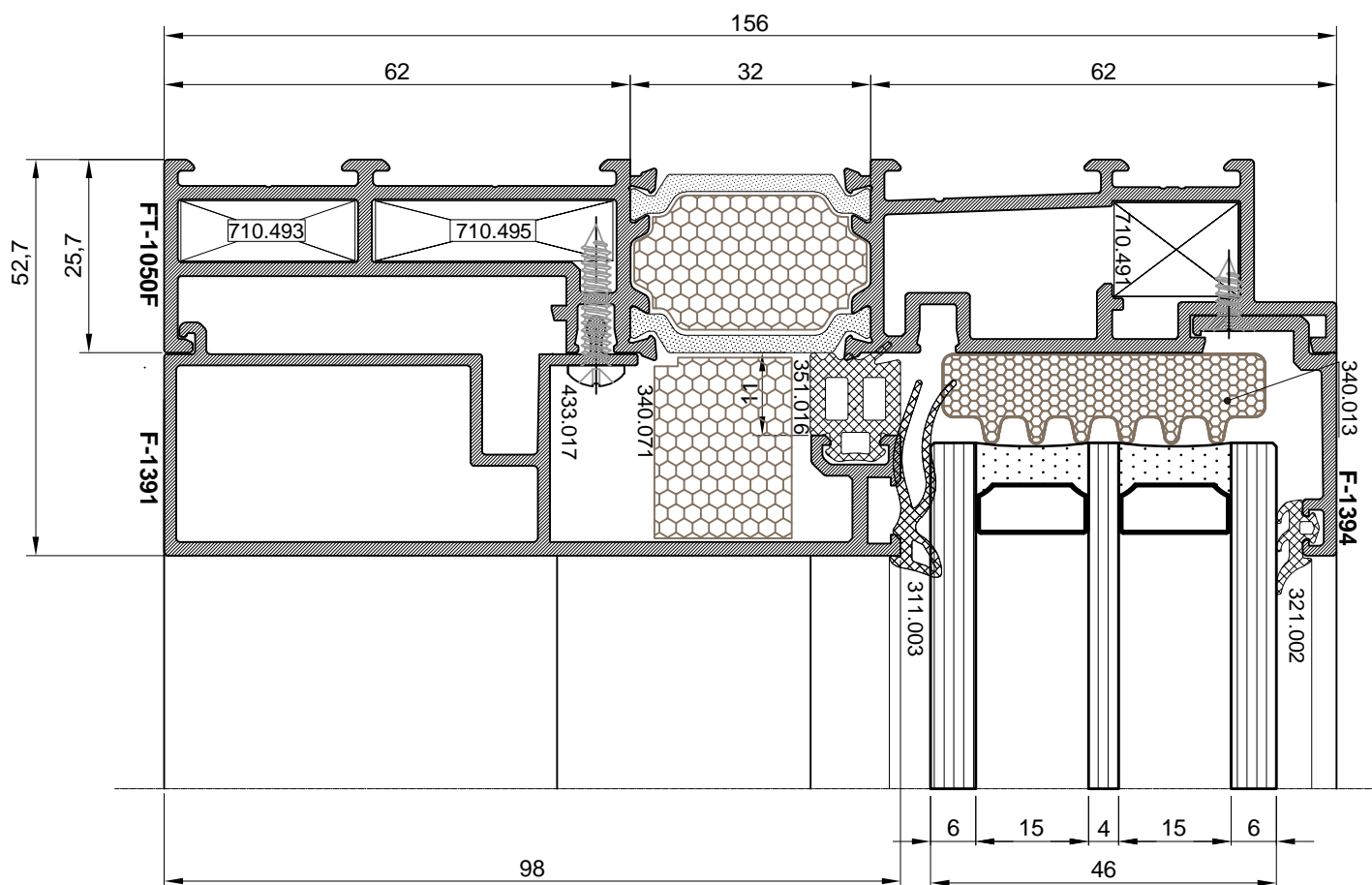
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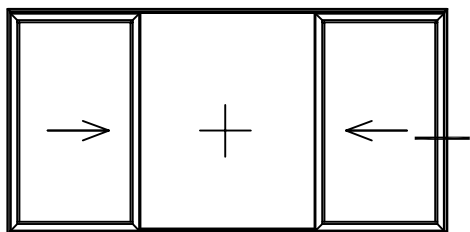


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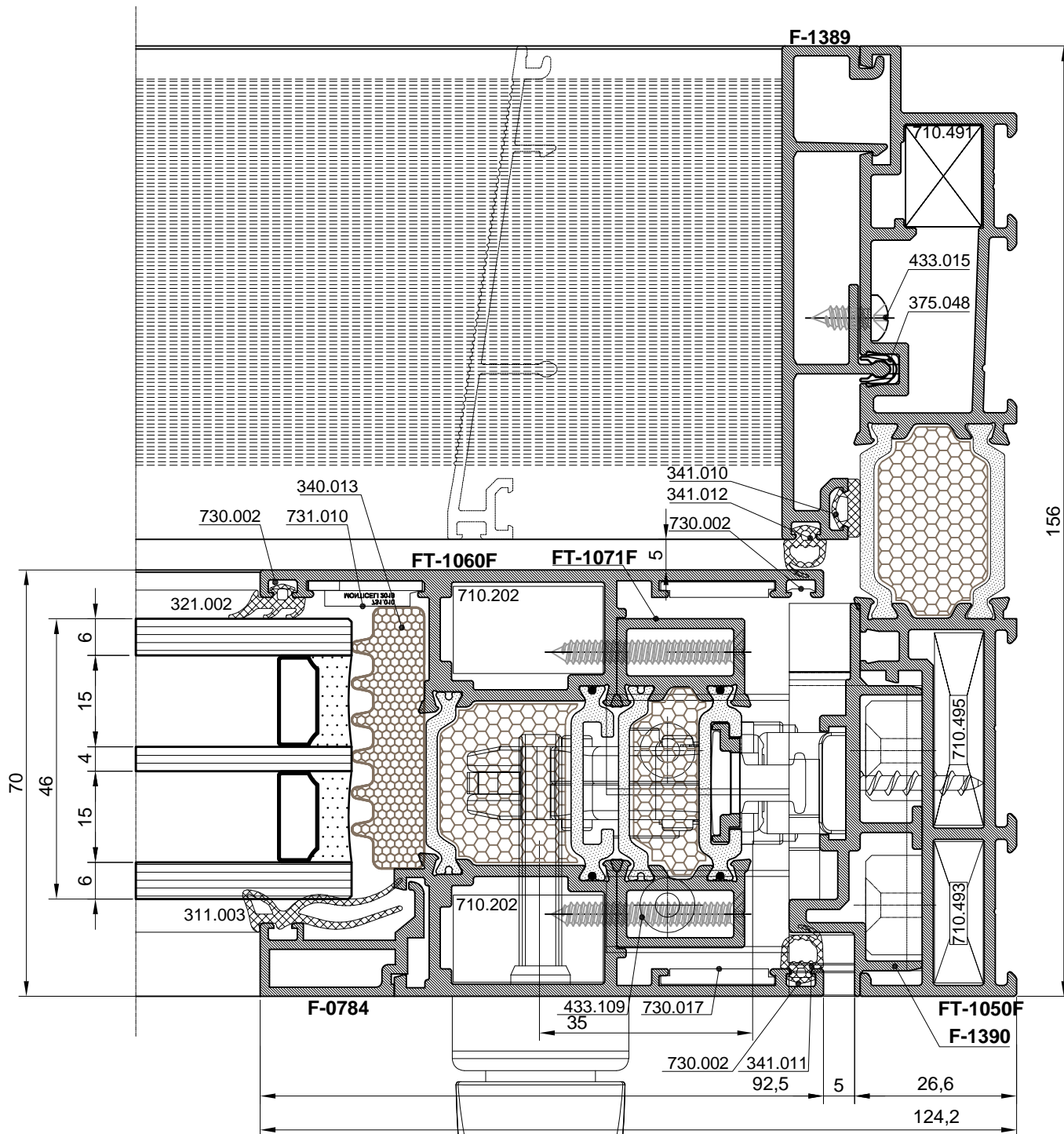


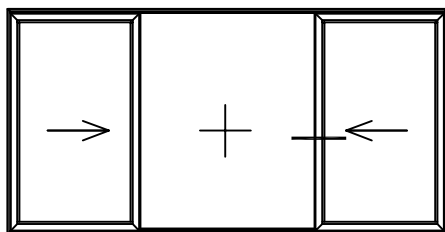
Shema D



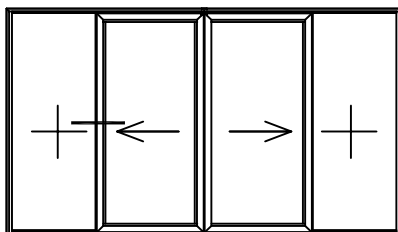


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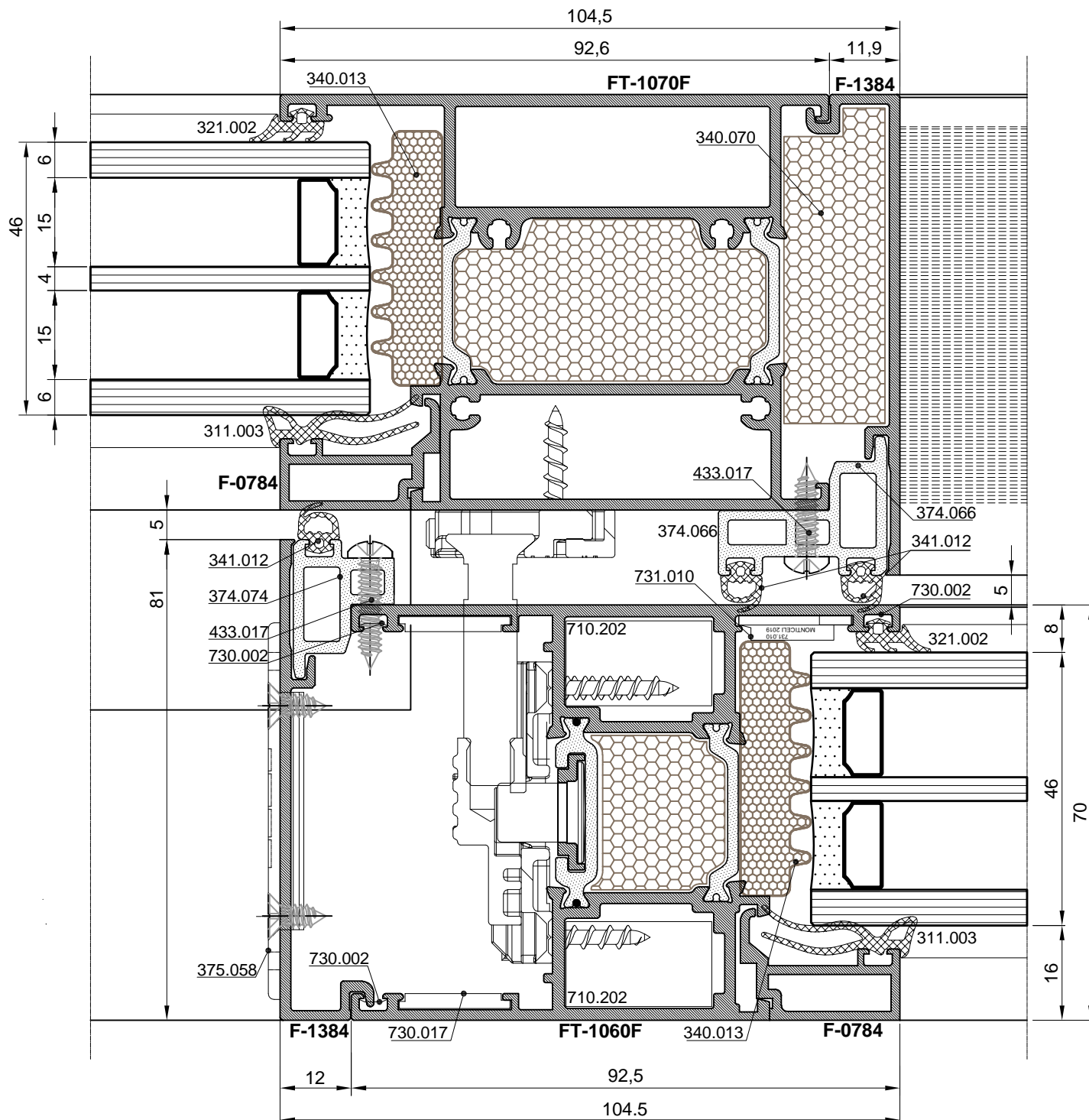


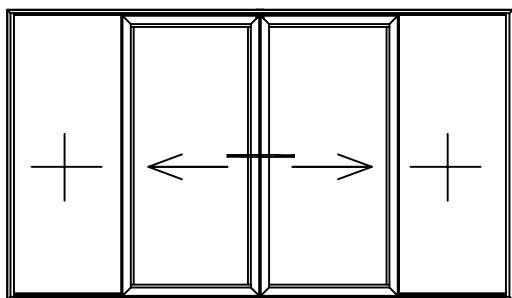


Shema K

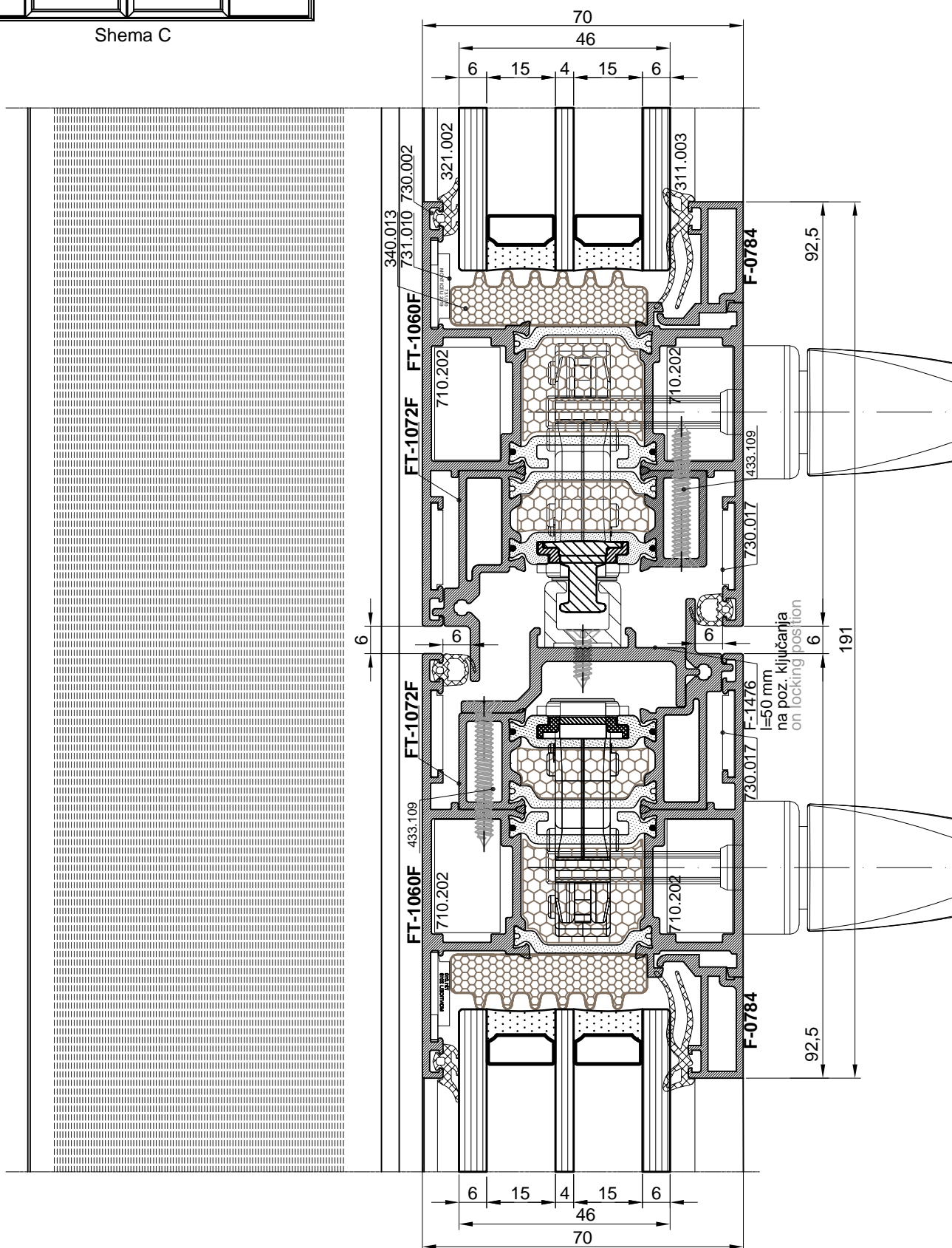


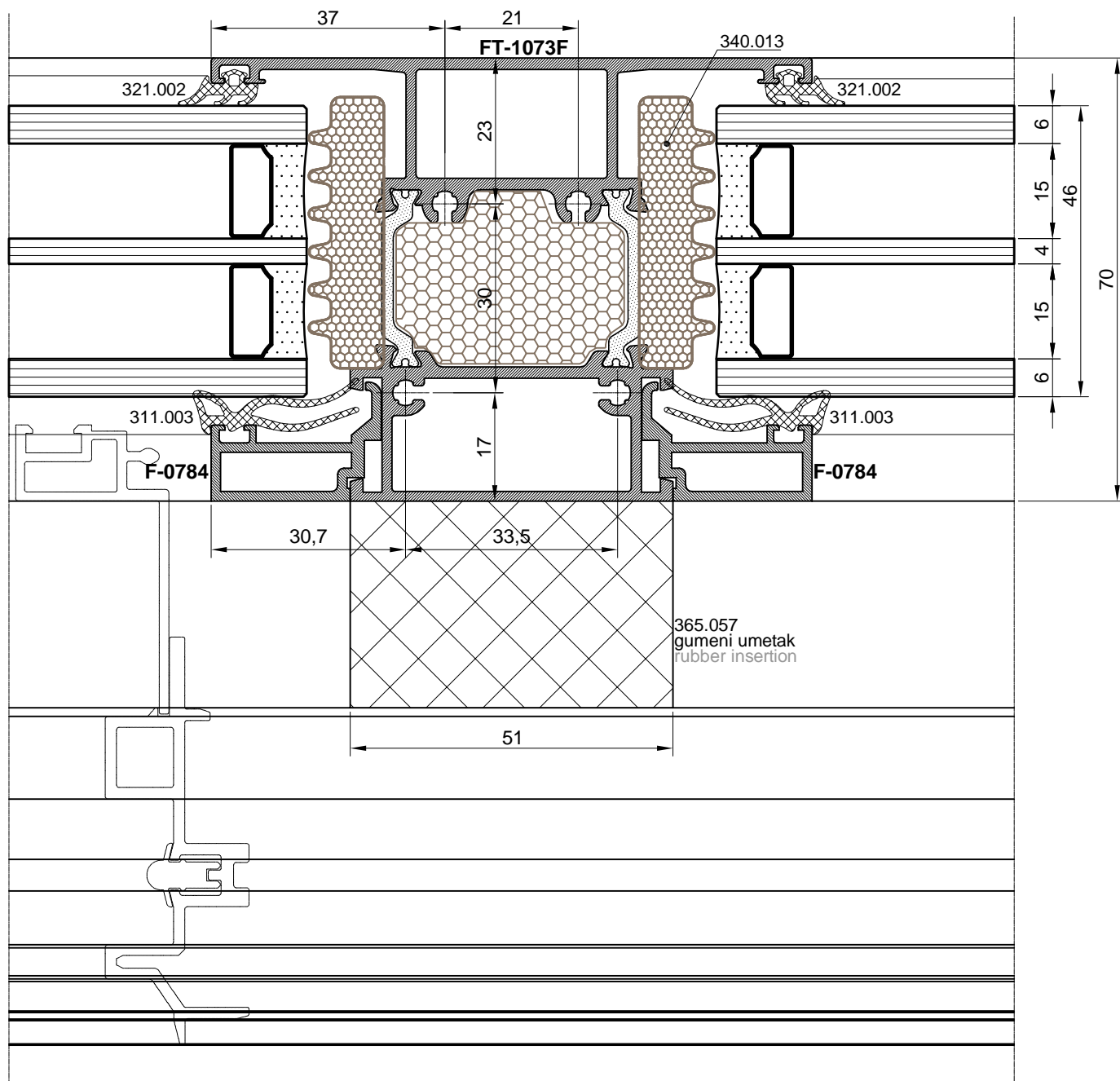
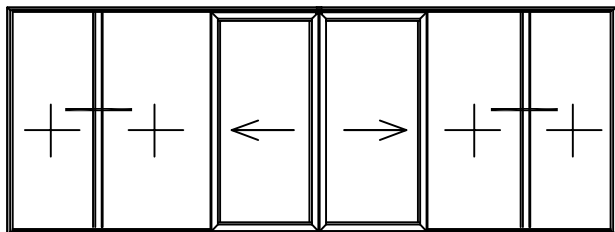
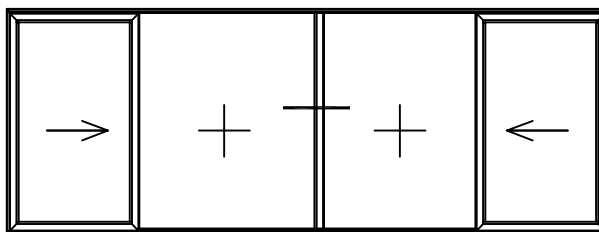
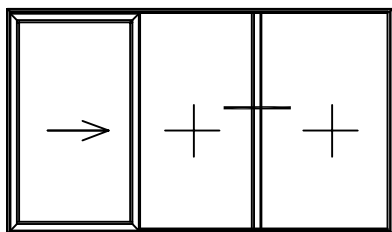
Shema C

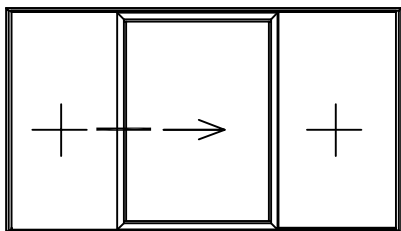




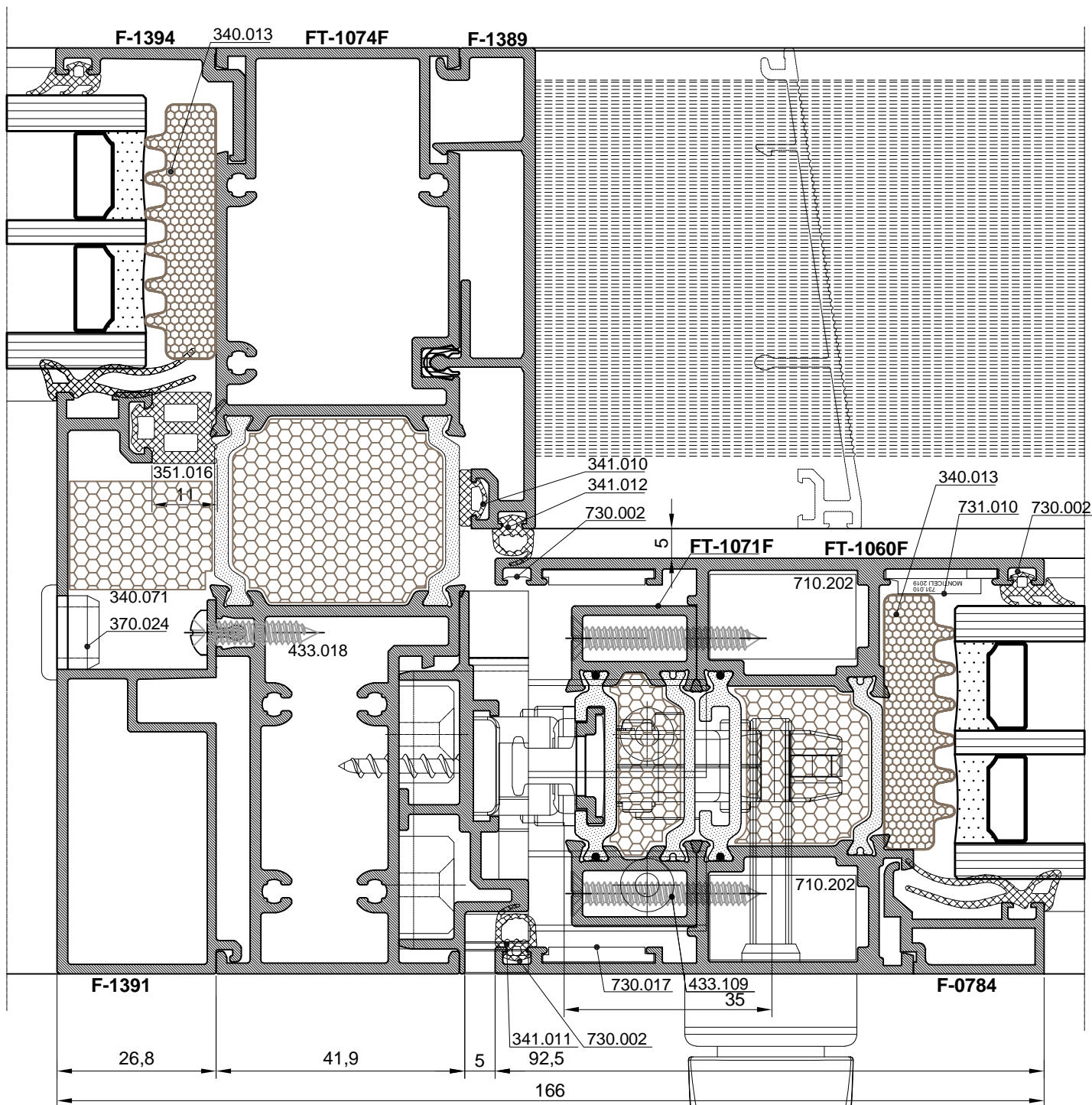
Shema C

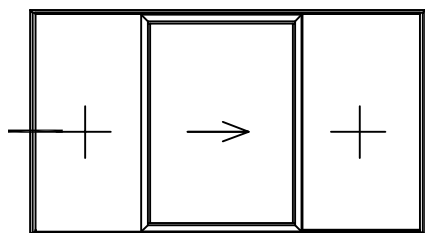




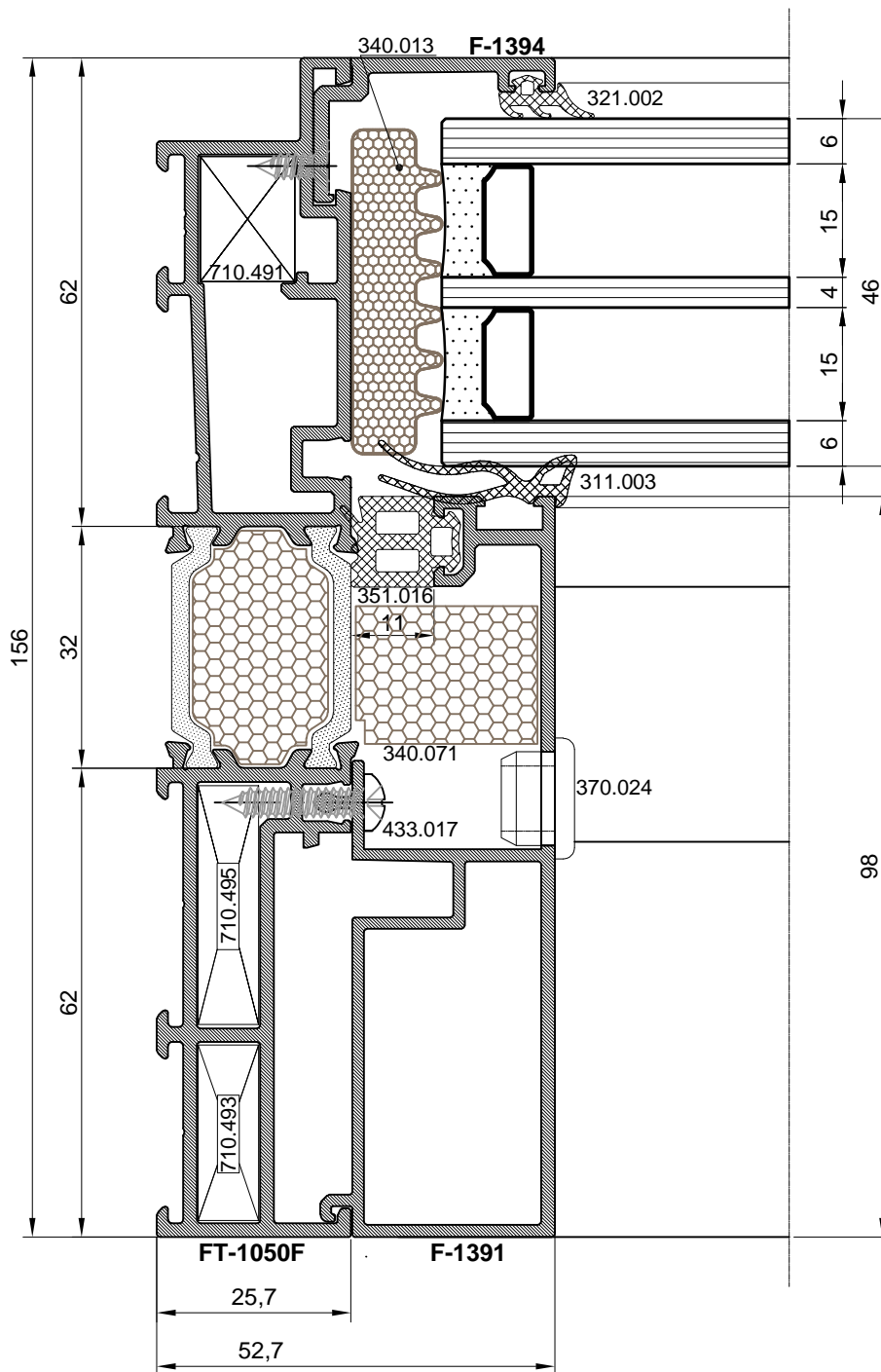


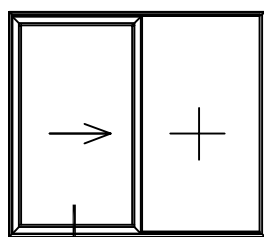
Shema D



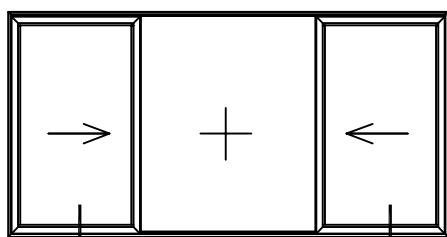


Shema D

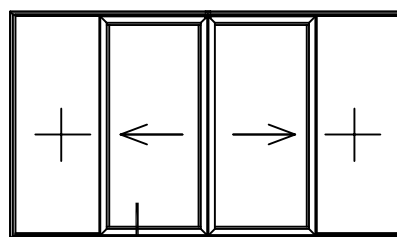




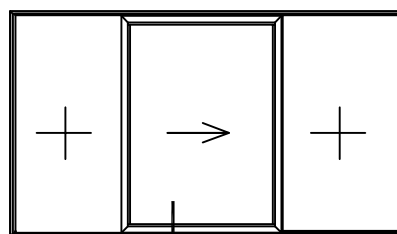
Schema A



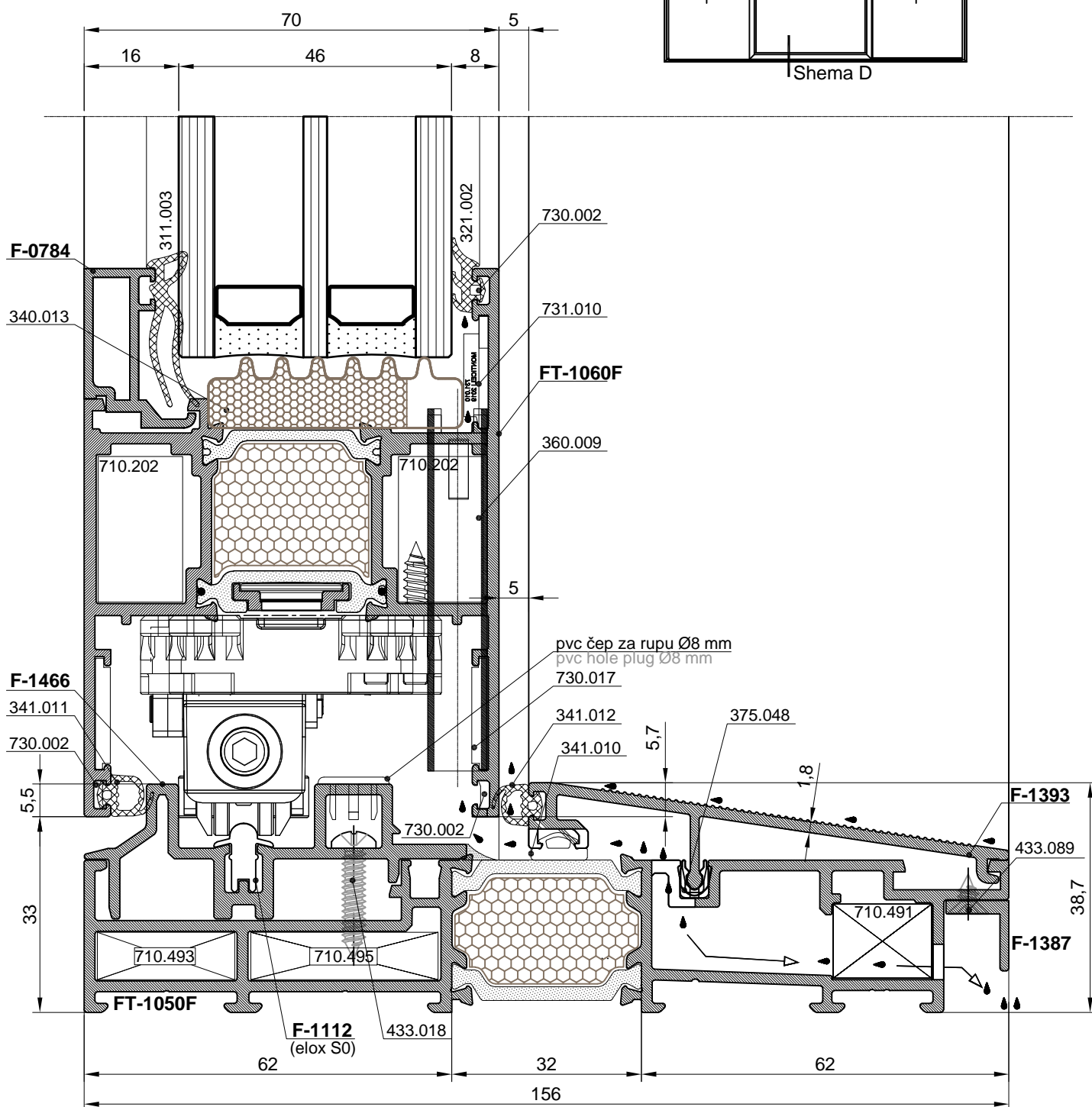
Schema K

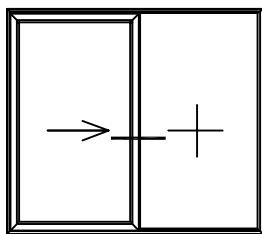


Schema C

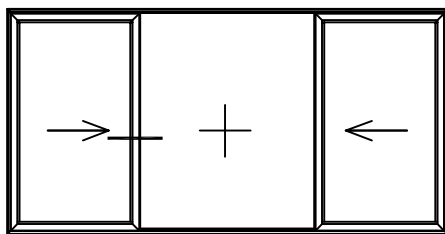


Schema D

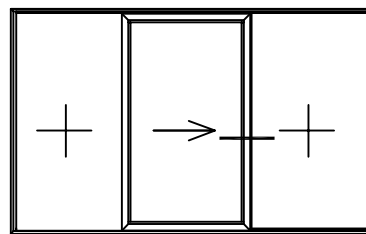




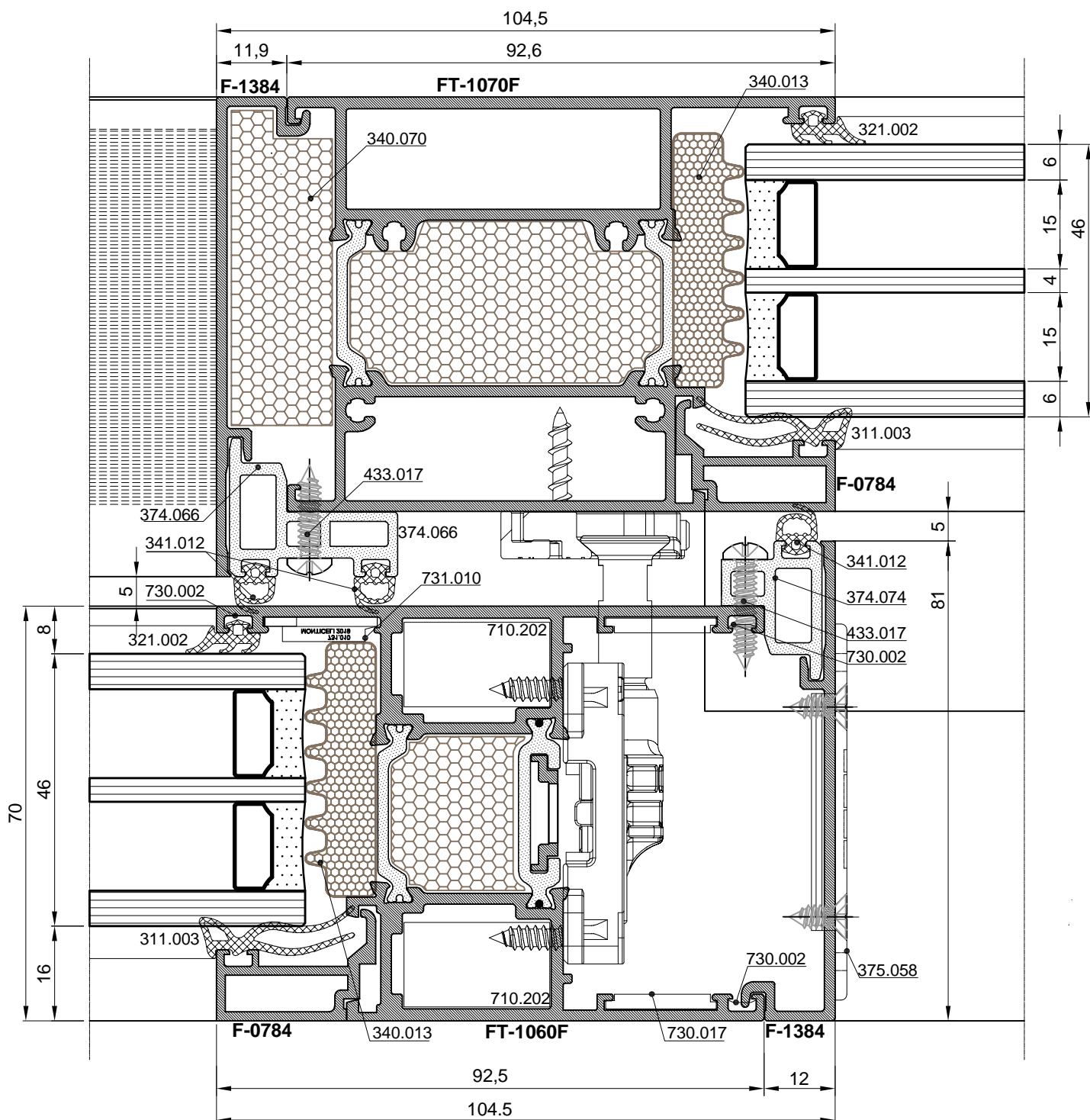
Shema A

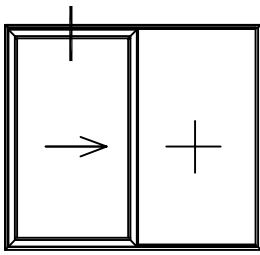


Shema K

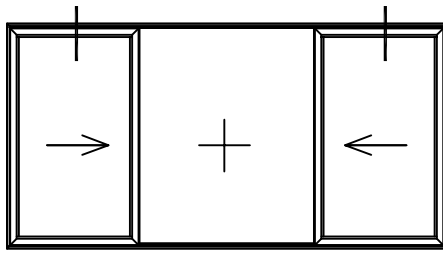


Shema D

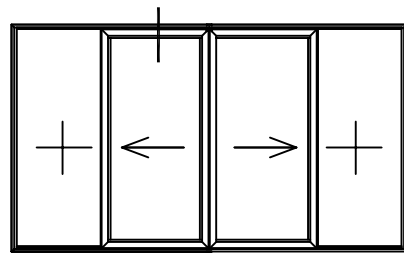




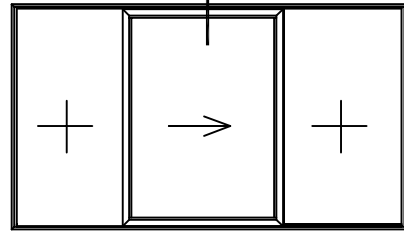
Schema A



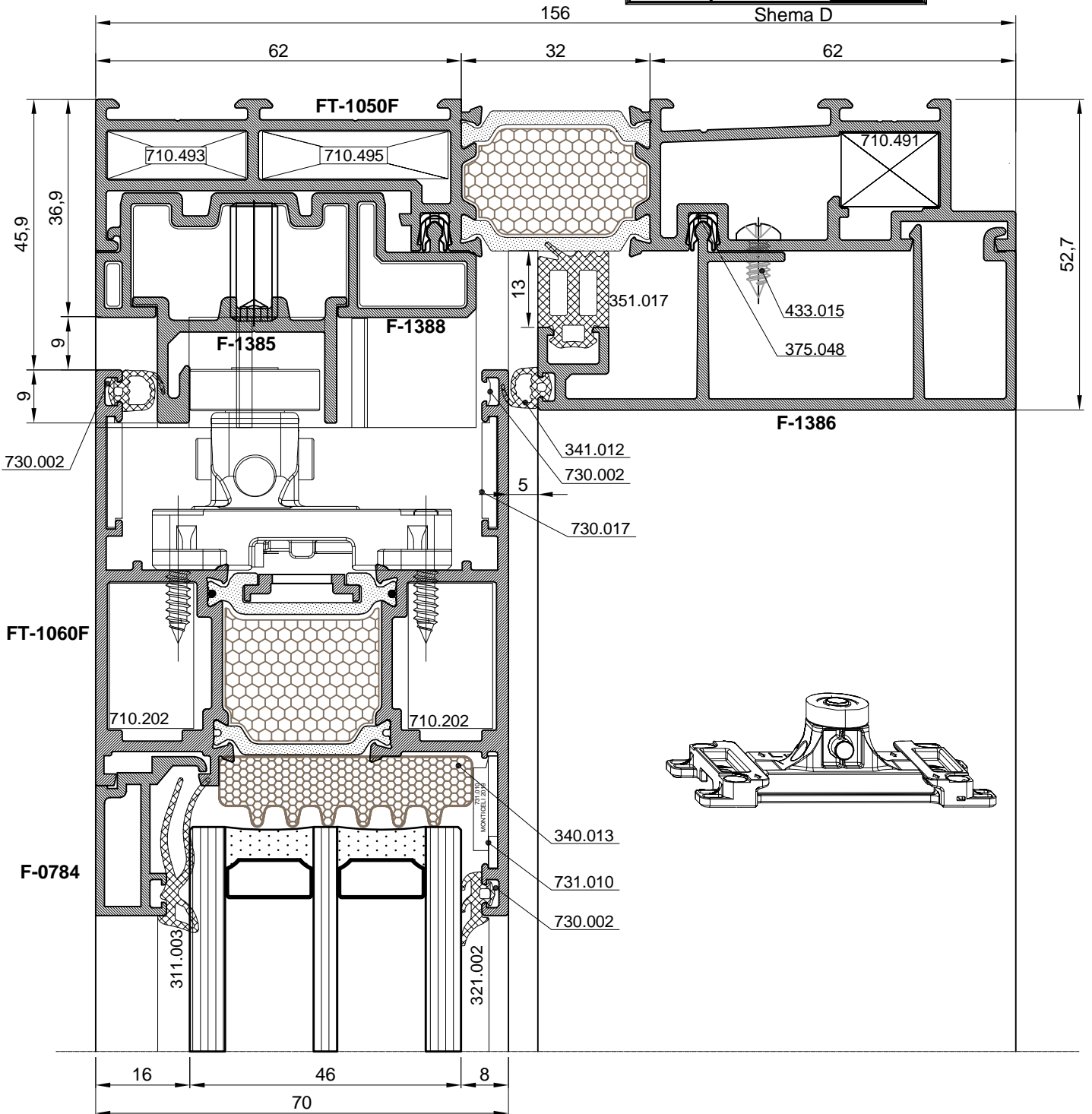
Schema K

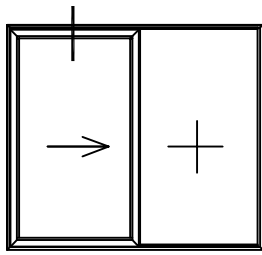


Schema C

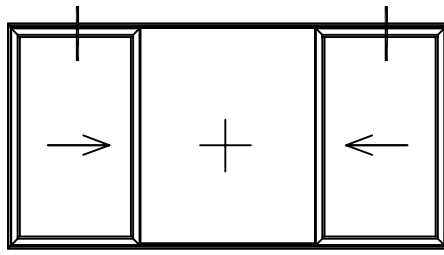


Schema D

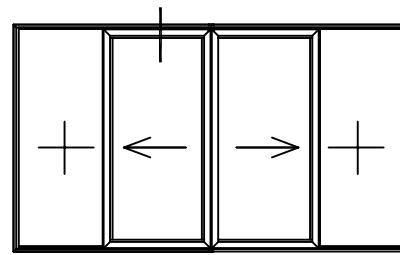




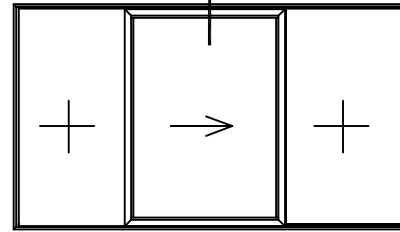
Schema A



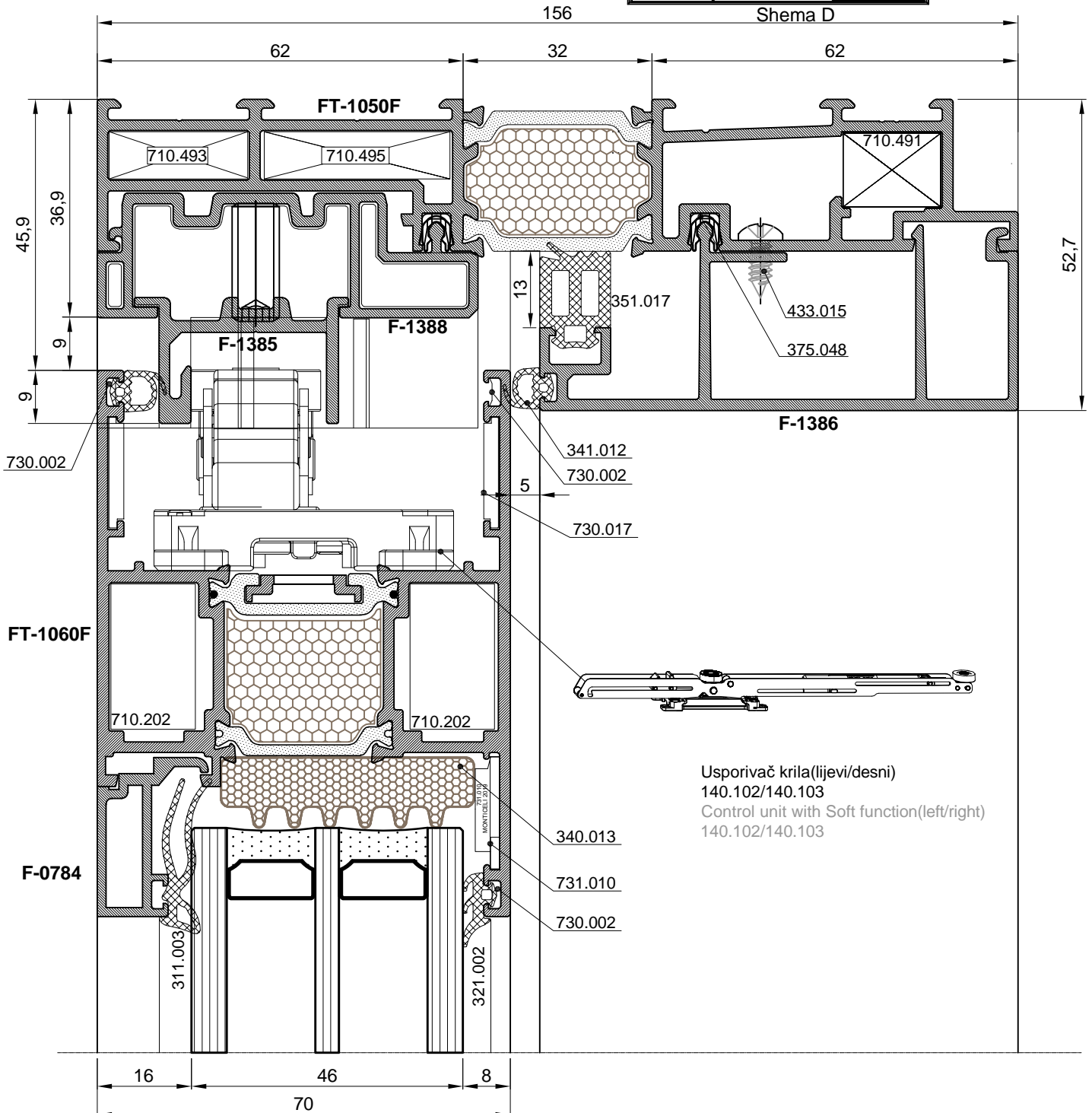
Schema K

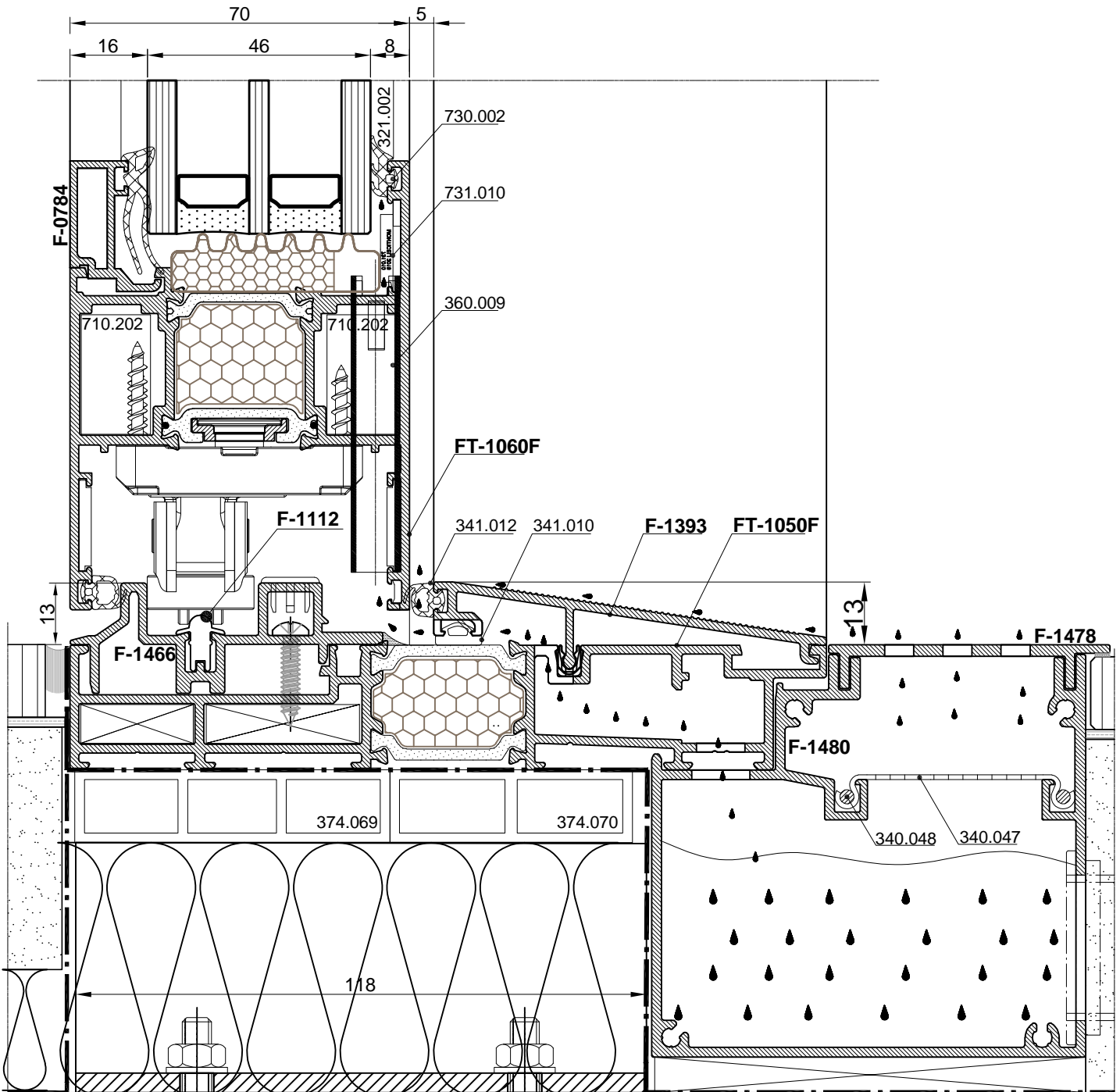
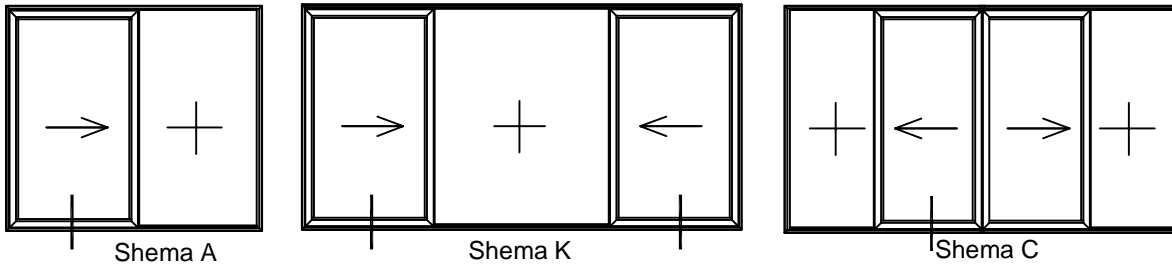


Schema C



Schema D



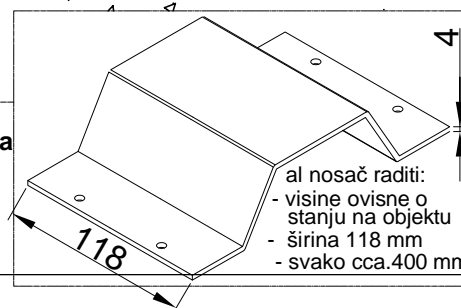


Napomena:

- Montaža vrata sa dodatnim profilom za sakupljanje kapljevina
- Visina praga u odnosu na kotu gotova poda 13 mm

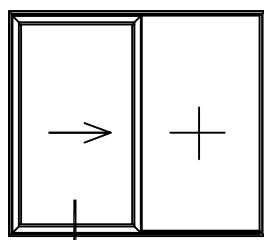
Remark:

- Door installation with additional profile for liquid collection
- Threshold height compared to finished floor is 13 mm

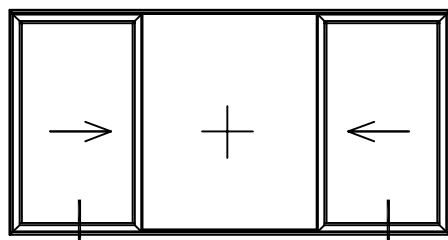


al nosač raditi:
 - visine ovisne o stanju na objektu
 - širina 118 mm
 - svako cca.400 mm

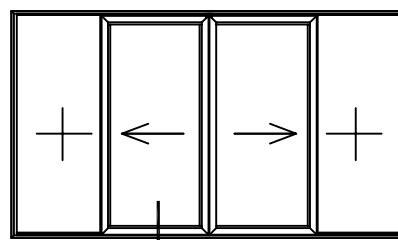
perform al support :
 - heights depending on object condition
 - width 118 mm
 - every cca.400 mm



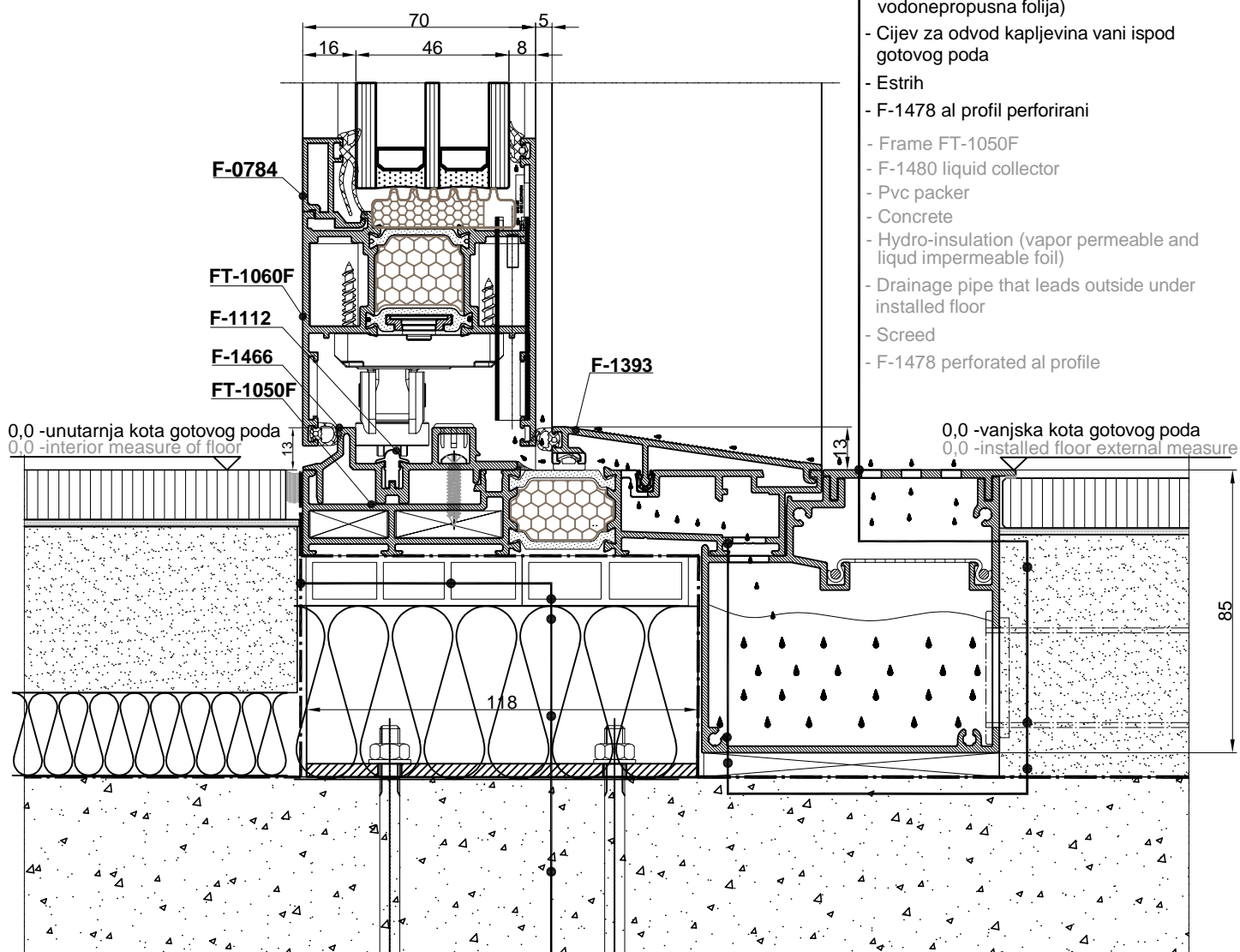
Schema A



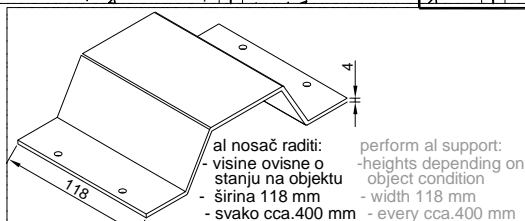
Schema K



Schema C



- Ram FT-1050F
- F-1480 sakupljač kapljevina
- Pvc podmetač
- Beton
- Hidroizolacija (paropropusna i vodonepropusna folija)
- Cijev za odvod kapljevina vani ispod gotovog poda
- Estrih
- F-1478 al profil perforirani
- Frame FT-1050F
- F-1480 liquid collector
- Pvc packer
- Concrete
- Hydro-insulation (vapor permeable and liquid impermeable foil)
- Drainage pipe that leads outside under installed floor
- Screed
- F-1478 perforated al profile



al nosač raditi:
- visine ovisne o stanju na objektu
- širina 118 mm
- svako cca.400 mm

perform al support:
- heights depending on object condition
- width 118 mm
- every cca.400 mm

Napomena:

- Montaža vrata sa dodatnim profilom za sakupljanje kapljevina
- Visina praga u odnosu na kotu gotova poda 13 mm

Remark:

- Door installation with additional liquid collection profile
- Treshold height compared to installed floor measure 13 mm

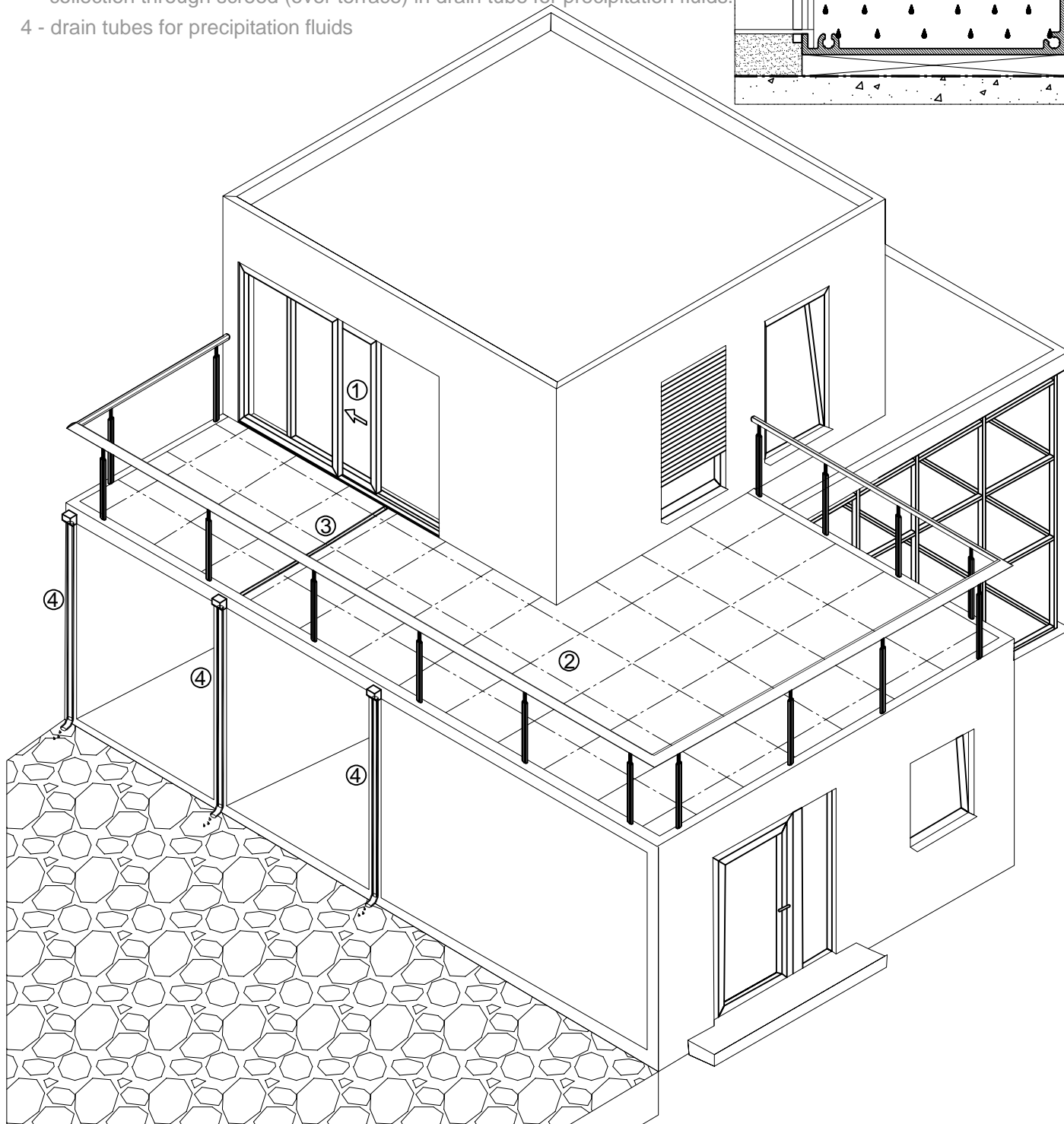
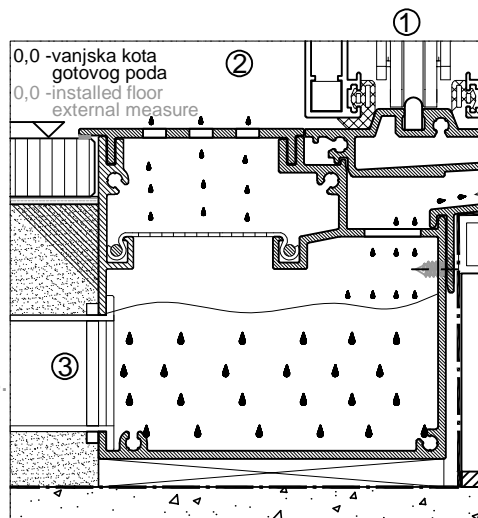
- Parna brana (paronepropusna folija)
- Pvc profil 374.069 (65x15) + pvc profil 374.070 (374.070)
- Čelični podmetač
- Termoizolacija
- Beton
- Vapor barrier (vapor impermeable foil)
- Pvc profil 374.069 (65x15) + pvc profil 374.070 (374.070)
- Steel packer
- Thermal insulation
- Concrete

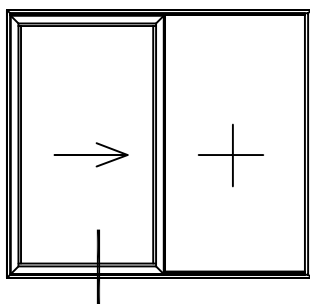
Prikaz odvodnje vode sa dodatnim profilom za sakupljanje kapljevina za klizne sistema (niske pragove do 10 mm):

- 1 - klizni sistemi (ugradnja sa visinom praga u odnosu na gotov pod do 13 mm)
- 2 - terasa
- 3 - cijev za odvod kapljevina iz kliznog sistema preko dodatnog profila za sakupljanje kroz estrih (preko terase) u svodnu cijev za oborinske vode
- 4 - svodne cijevi za oborinske vode

Water drainage view with additional liquid drainage profile for sliding systems (low tresholds up to 10 mm):

- 1 - sliding systems (installation with treshold height compared to installed floor up to 13 mm)
- 2 - terrace
- 3 - tube used for drainage from sliding system by using additional profile for collection through screed (over terrace) in drain tube for precipitation fluids.
- 4 - drain tubes for precipitation fluids



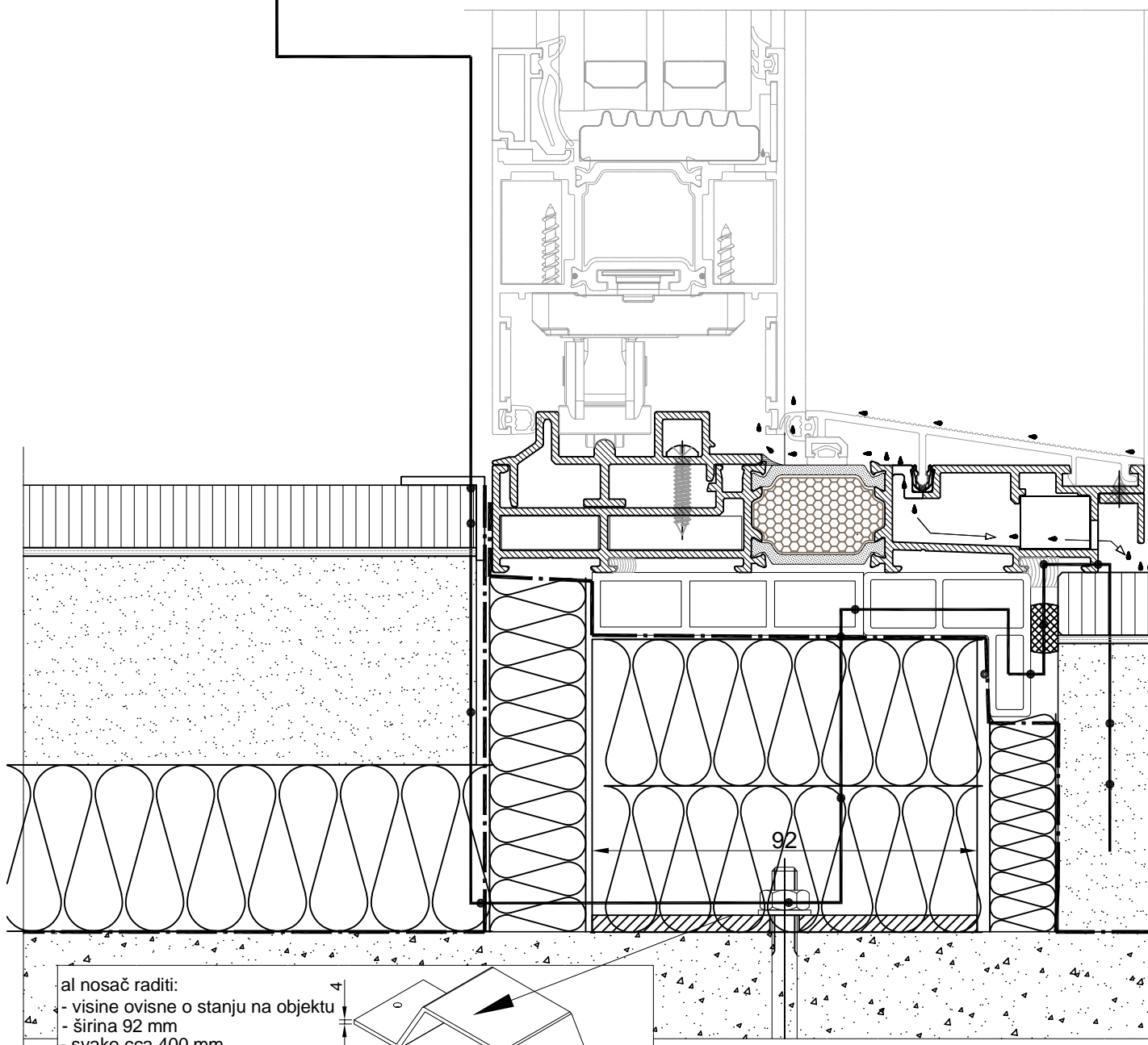


- Estrih
- Vanjski gotov pod
- Aluminijski ram-FT-1060F
- Silikon
- Trajnoelastični kit
- Pvc profil 374.037+pvc cijev 65x15 (374.069)
- Hidroizolacija(paropropusna i vodonepropusna folija)-za zaštitu termoizolacije (npr. Würth 0875 350 201)
- Čelična cijev 90x40x2
- Termoizolacija
- Parna brana(paronepropusna folija)-za sprječavanje prolaska vodene pare iz prostorije u termoizolaciju (npr.Würth 0875 071 00)

- Estrih
- Gotov pod
- Završna lajsna poda

- Screed
- Finished exterior floor
- Aluminum frame-FT-1060F
- Silicone
- Permanently elastic kit
- Pvc profile 374.037+pvc tube 65x15 (374.069)
- Hydro-insulation (vapor permeable and liquid impermeable folija)-for thermal insulation protection (i.e. Würth 0875 350 201)
- Steel tube 90x40x2
- Thermal insulation
- Vapor barrier(vapor impermeable foil)-za sprječavanje prolaska vodene pare iz prostorije u termoizolaciju (i.e.Würth 0875 071 00)

- Screed
- Installed floor
- Final floor batten

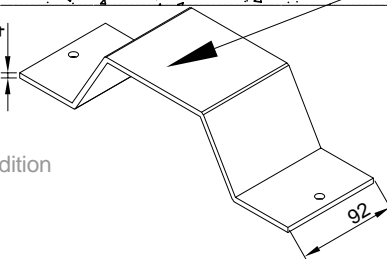


al nosač raditi:

- visine ovisne o stanju na objektu
- širina 92 mm
- svako cca.400 mm

perform al support profile:

- heights depending on object condition
- width 92 mm
- every cca.400 mm

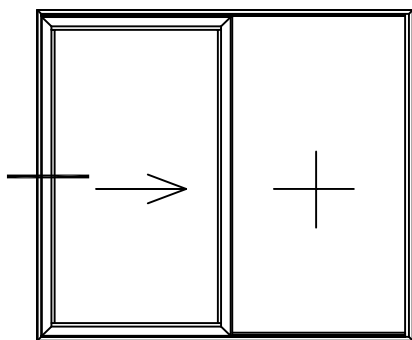


NAPOMENA:

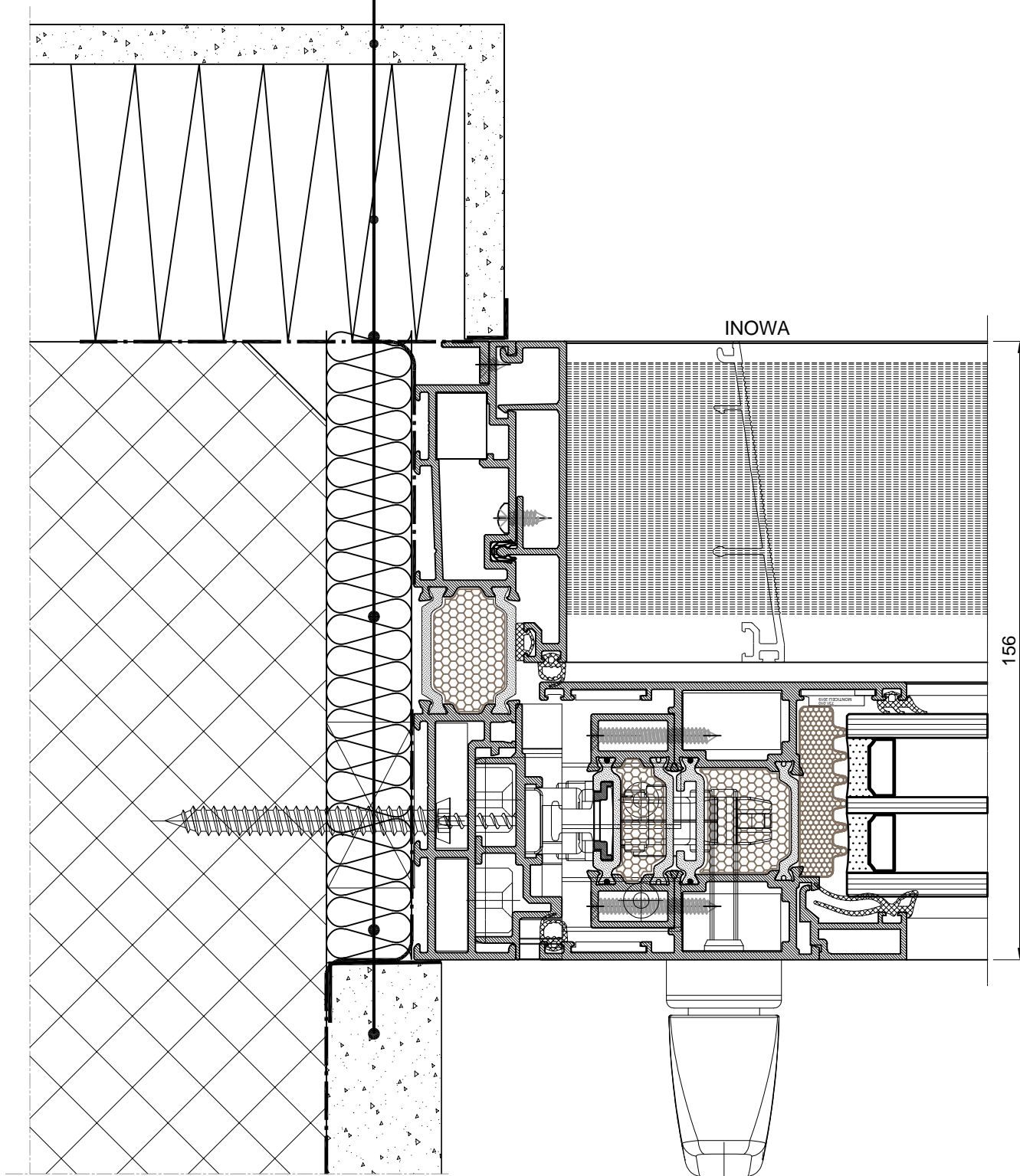
- Za klizna vrata koja nisu izložena većoj količini padalina koristiti ovakav način ugradnje i odvoda vode

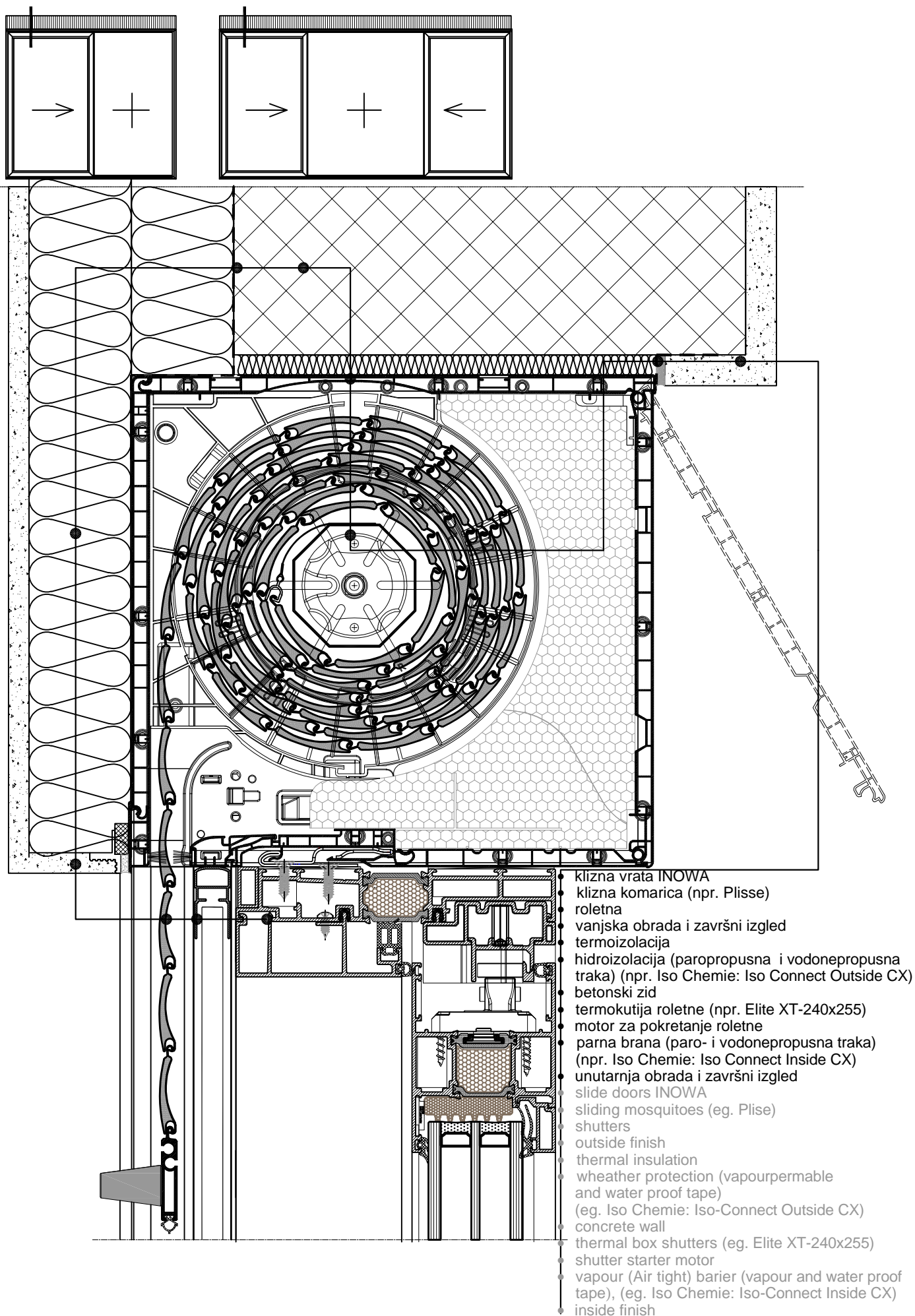
REMARK:

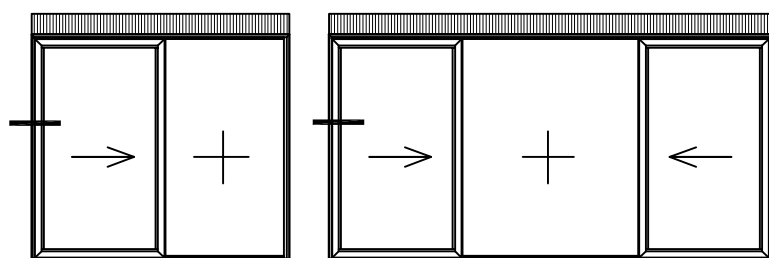
- For sliding doors that are not exposed to a higher amount of rainfall, make this kind of installation and drainage



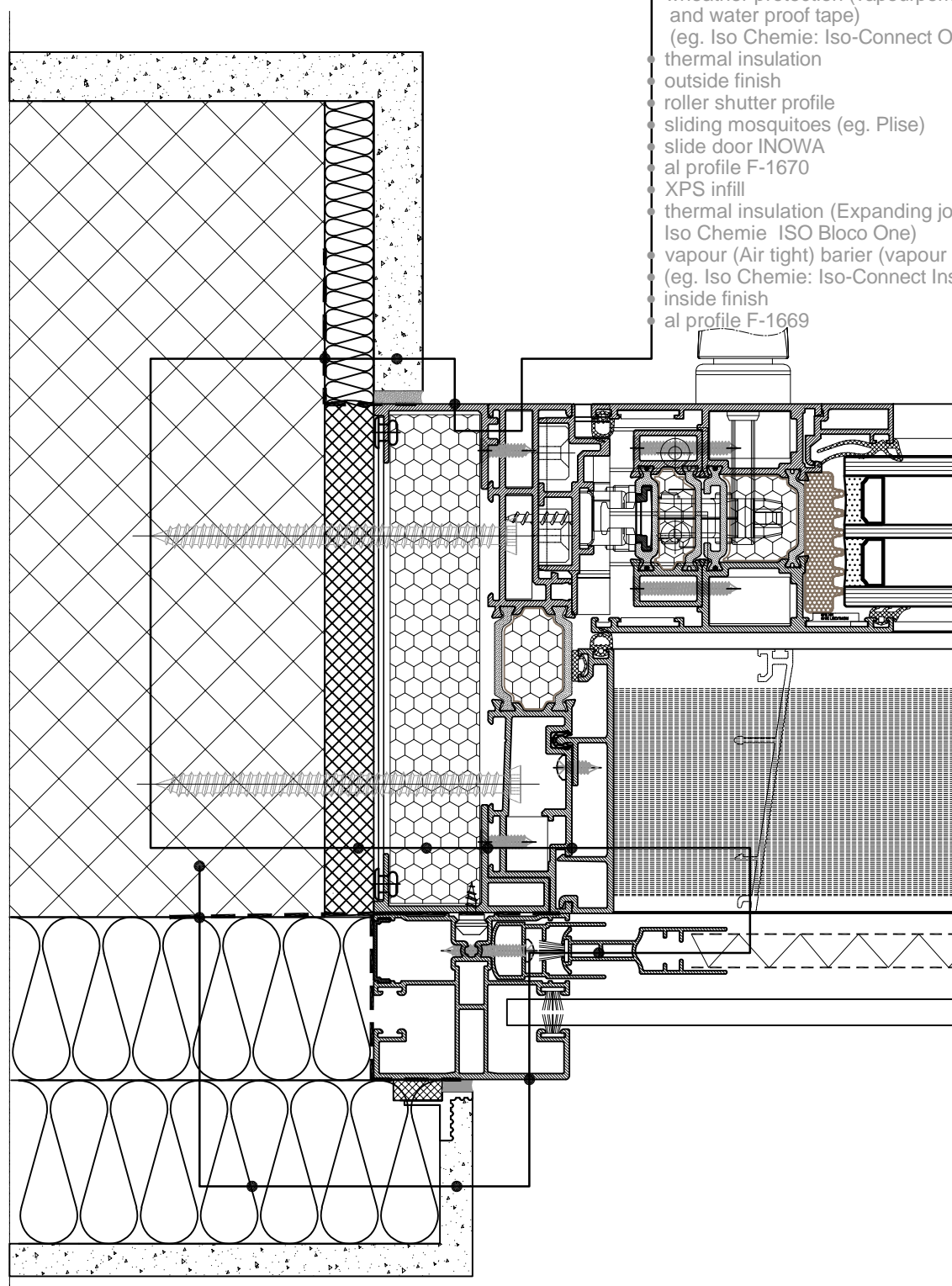
- | | |
|--|---|
| -vanjska završna obrada | -external finishing |
| -vanjska toplinska izolacija | -external thermal insulation |
| -paropropusna i vodonepropusna folija (hidroizolacija) | -vapor permeable and liquid impermeable foil (hydro-insulation) |
| -toplinska izolacija | -thermal insulation |
| -paro- i vodonepropusna folija (parna brana) | -vapor- and liquid impermeable foil (vapor barrier) |
| -unutarnja završna obrada | -internal finishing |

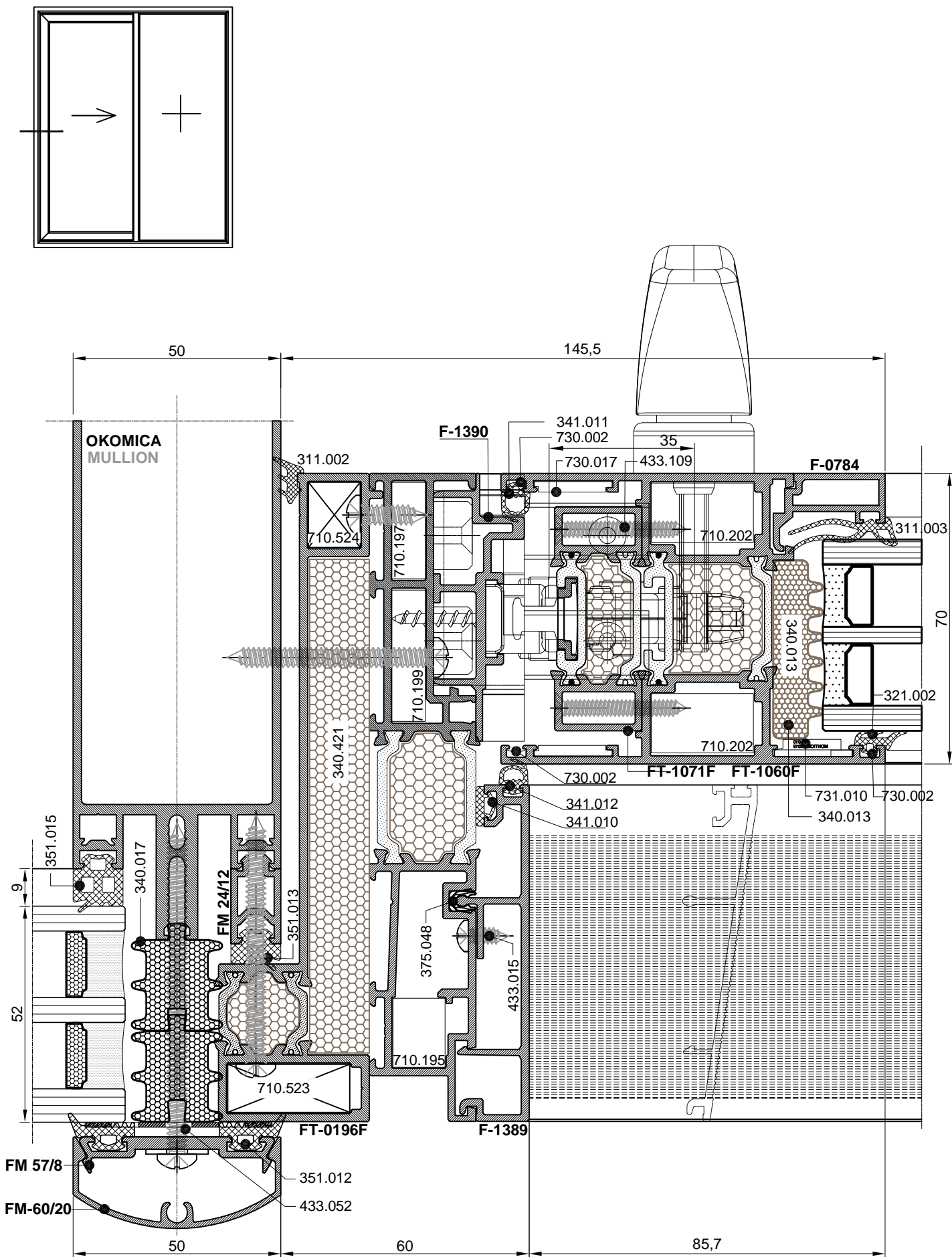


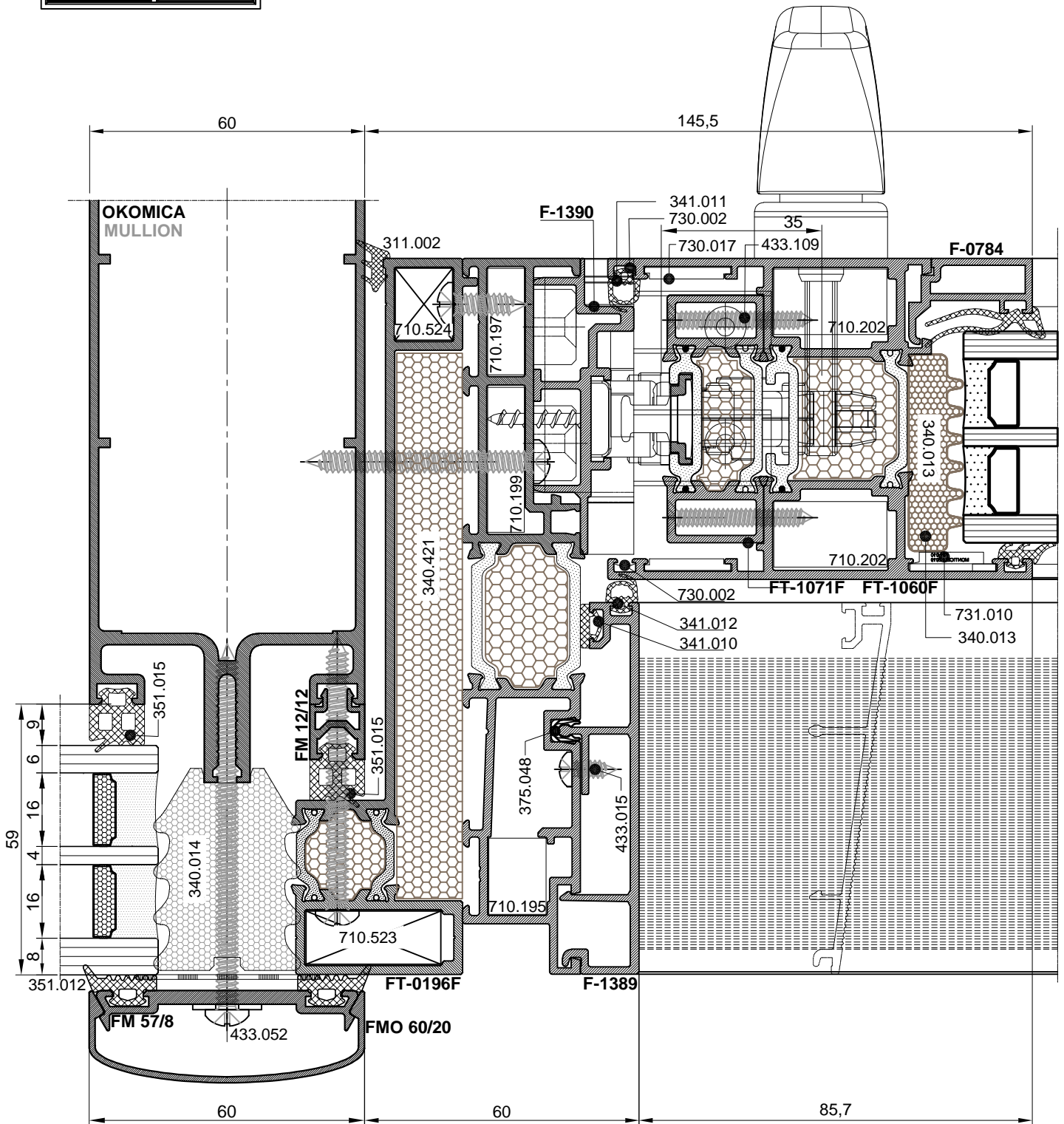
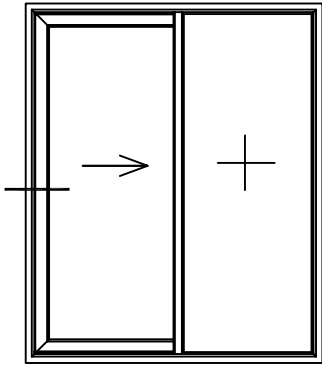


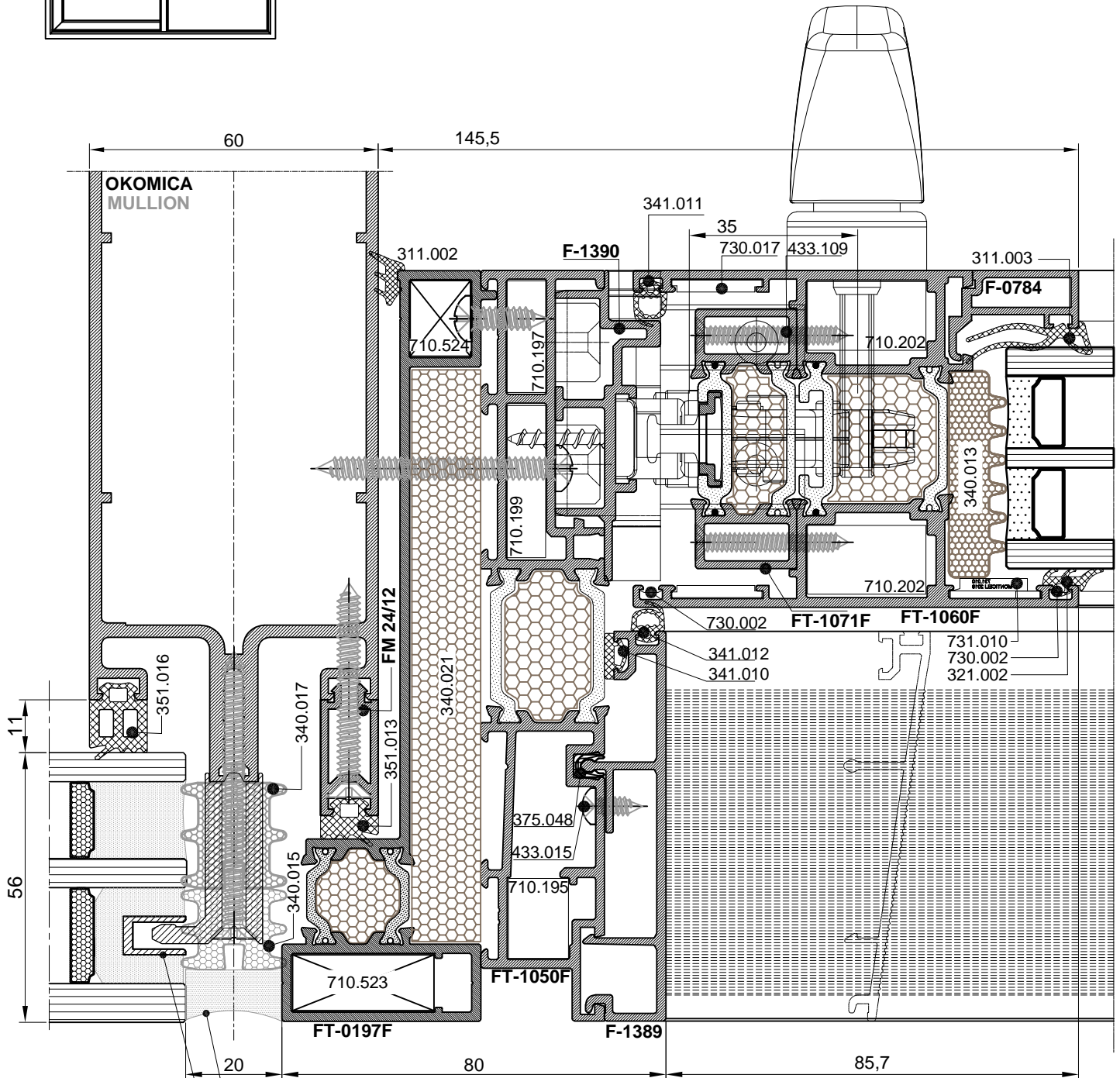
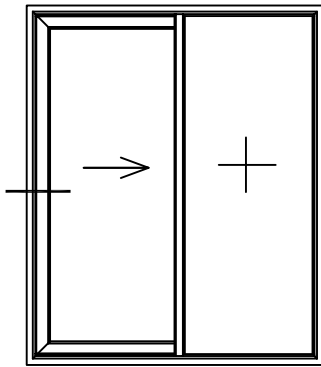


- betonski zid
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled
- vodilica roletne
- klizna komarica (npr. Plisse)
- klizna vrata INOWA
- al profil proširenje rama F-1670
- XPS ispuna
- termoizolacija (exp.spužvica: Iso Chemie: ISO Bloco One)
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled
- al profil proširenje rama F-1669
- concrete wall
- weather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- thermal insulation
- outside finish
- roller shutter profile
- sliding mosquitoes (eg. Plisse)
- slide door INOWA
- al profile F-1670
- XPS infill
- thermal insulation (Expanding joint sealing foam tape: Iso Chemie ISO Bloco One)
- vapour (Air tight) barrier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- inside finish
- al profile F-1669





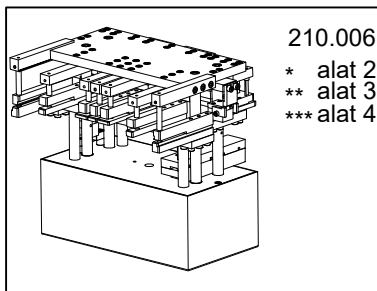
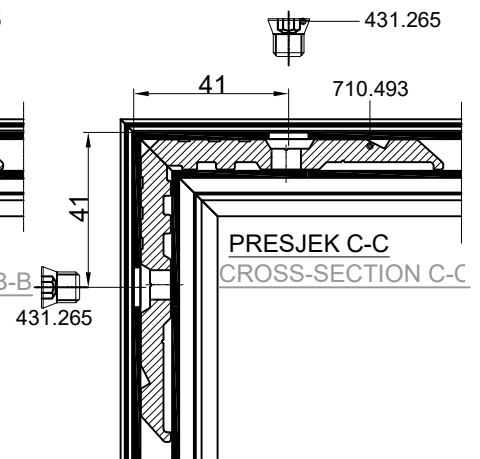
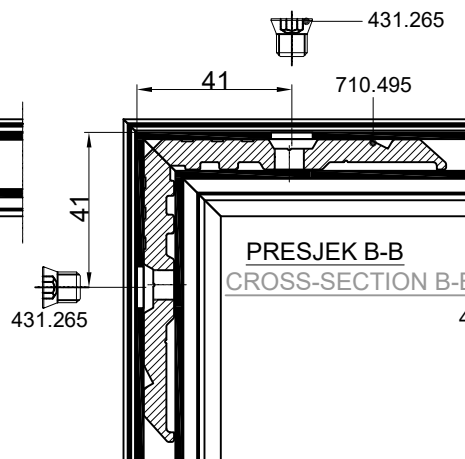
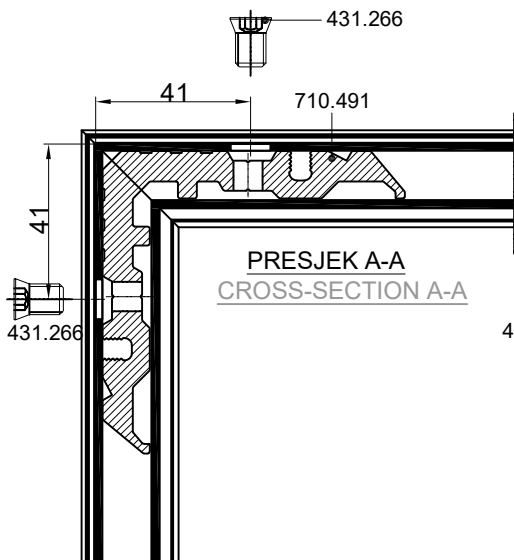
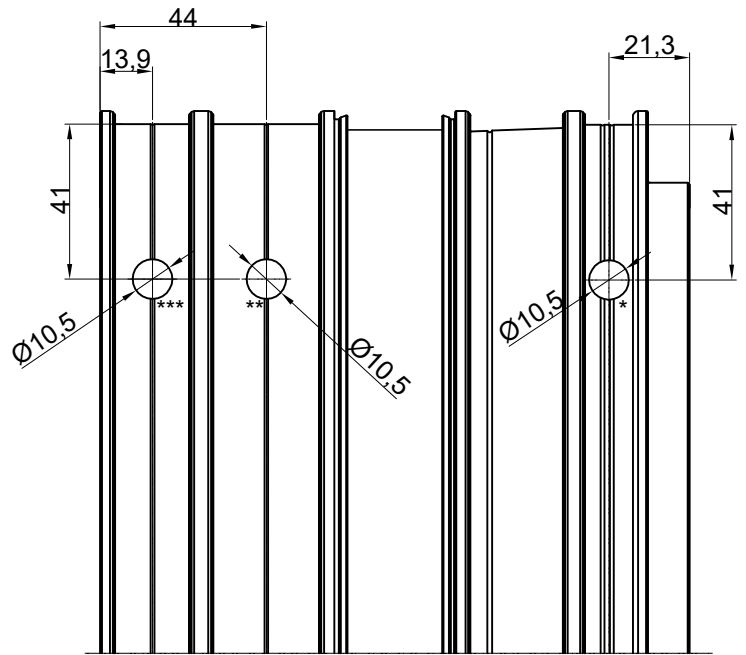
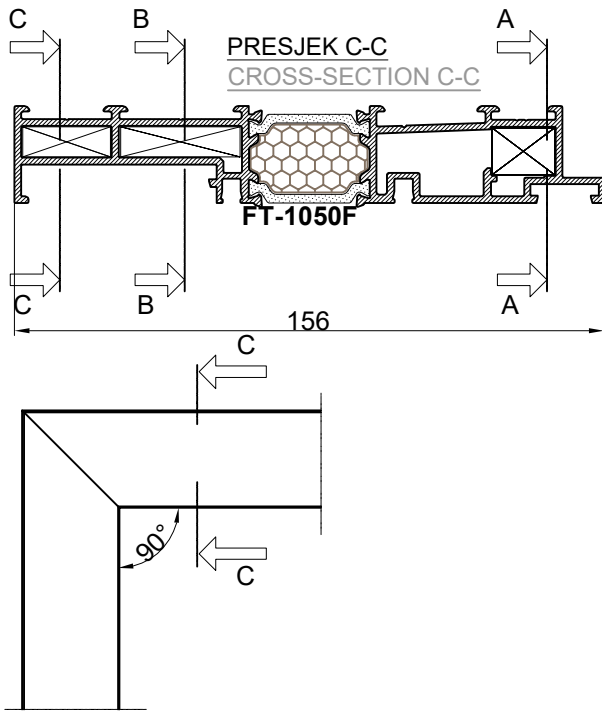




F-0779 (elokaša S-10
ne starija od 6 mjeseci)
(anodizing S-10 not older
than 6 months)
DOW CORNING DC 791
(JEDNOKOMPONENTNI)
72 sata mirovanja
DOW CORNING DC 791
(ONE COMPONENT)
72 hours inaction

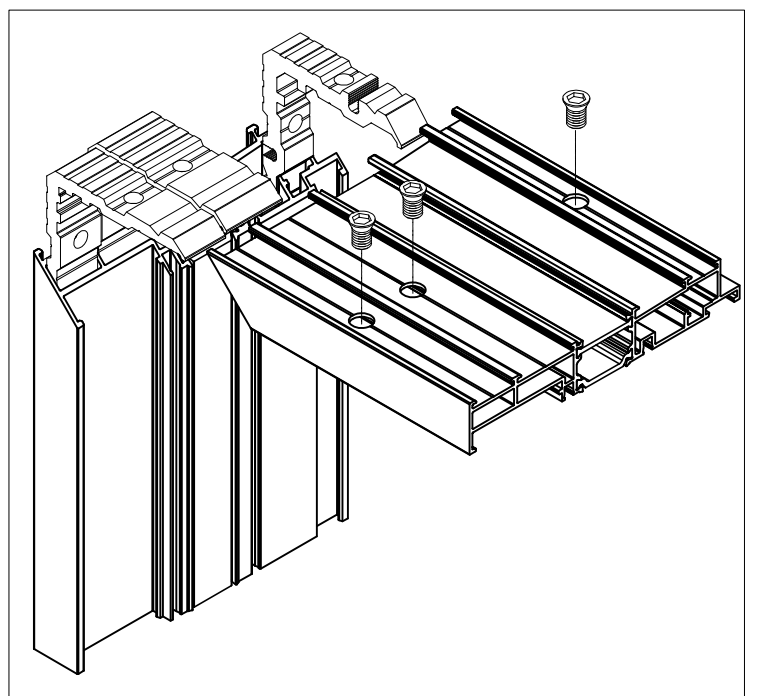
Obrada i montaža

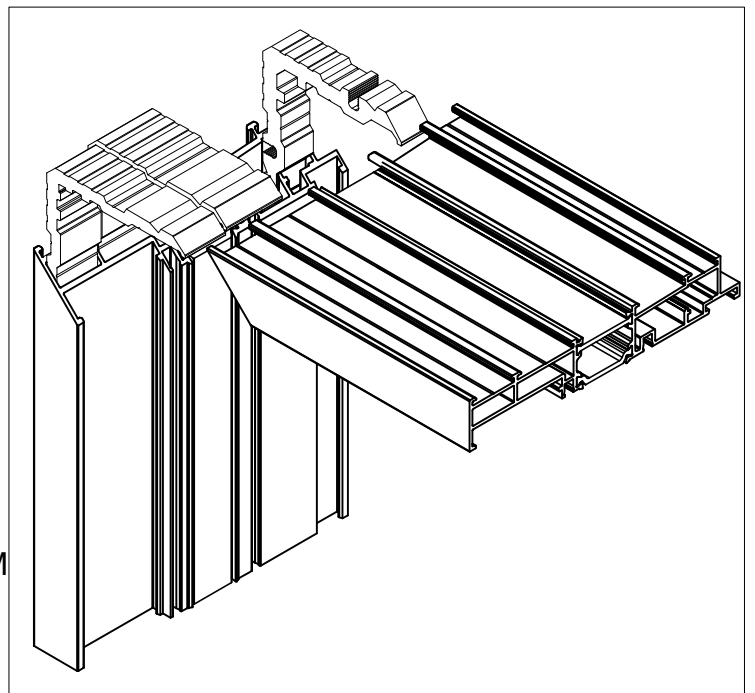
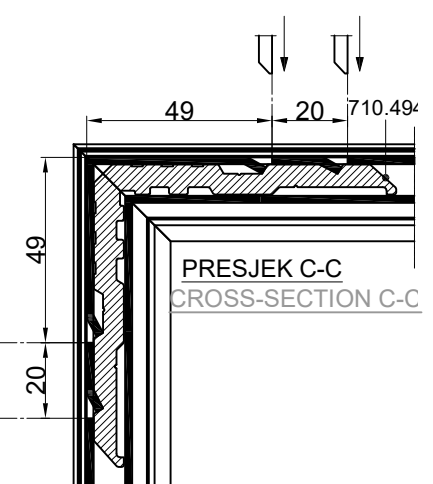
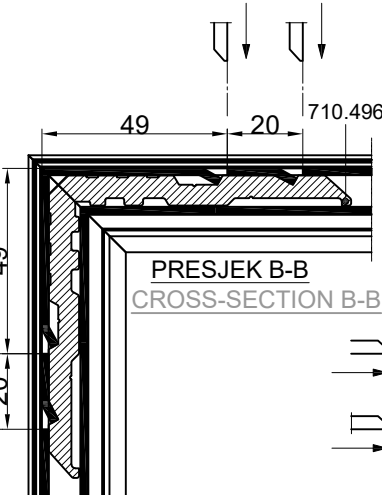
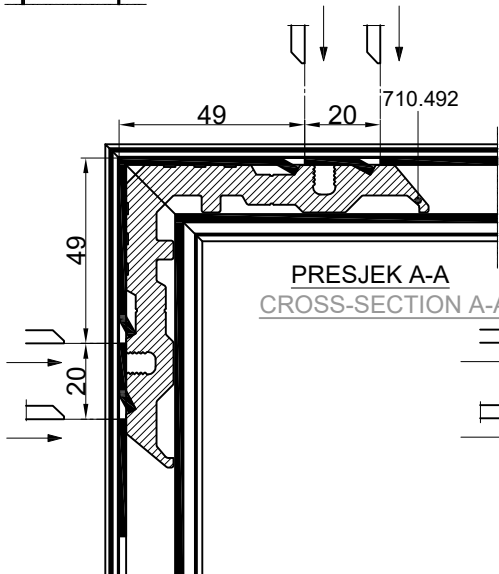
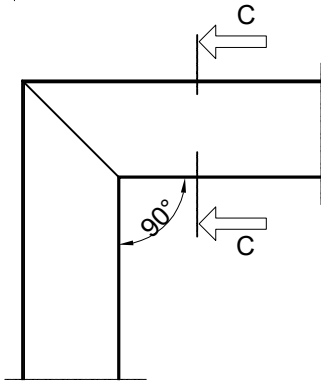
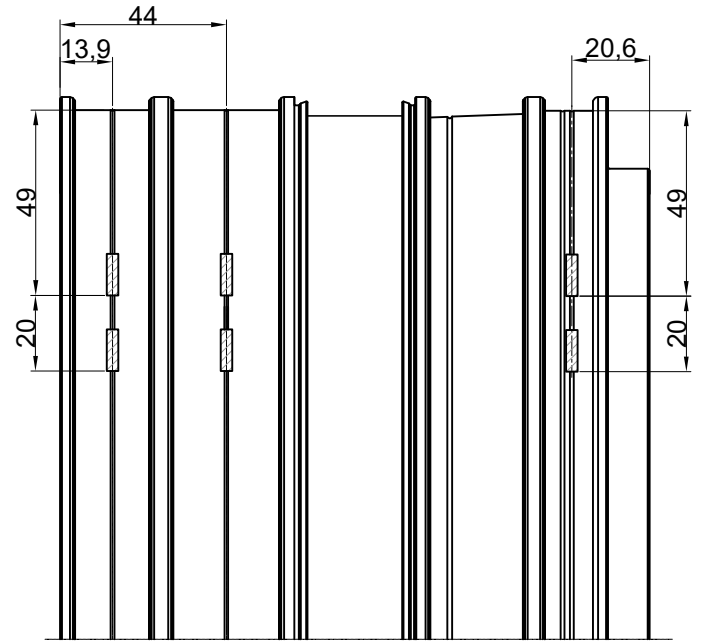
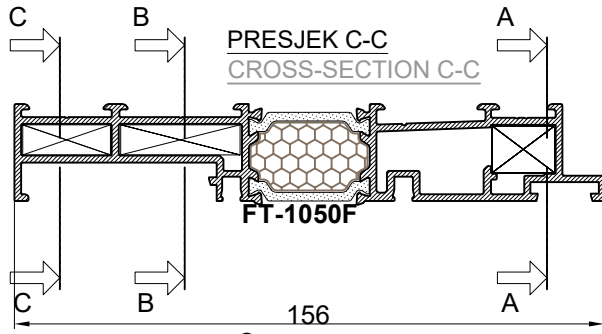
Processing and montage



NAPOMENA: SPAJANJE PROFILA KUTNIM
SPOJNICAMA (vijčana veza)

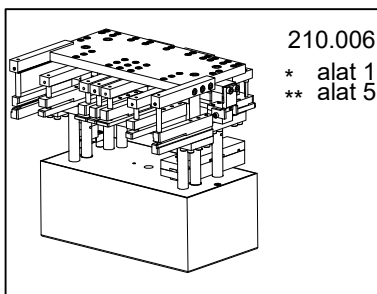
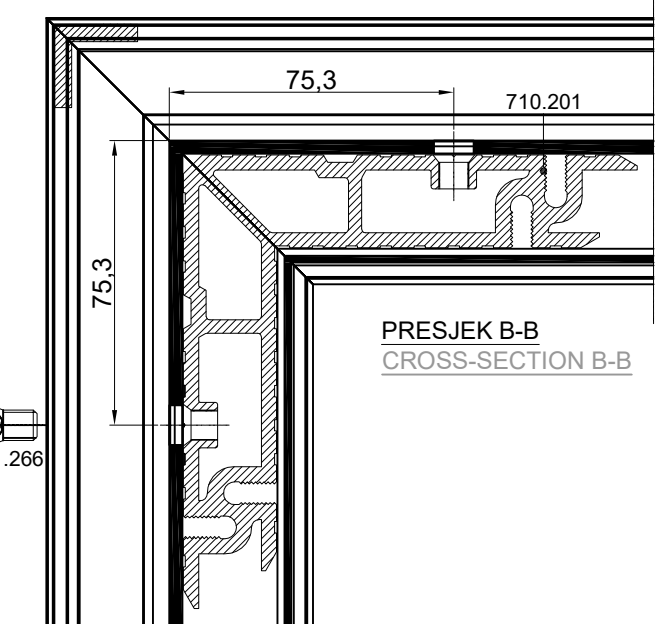
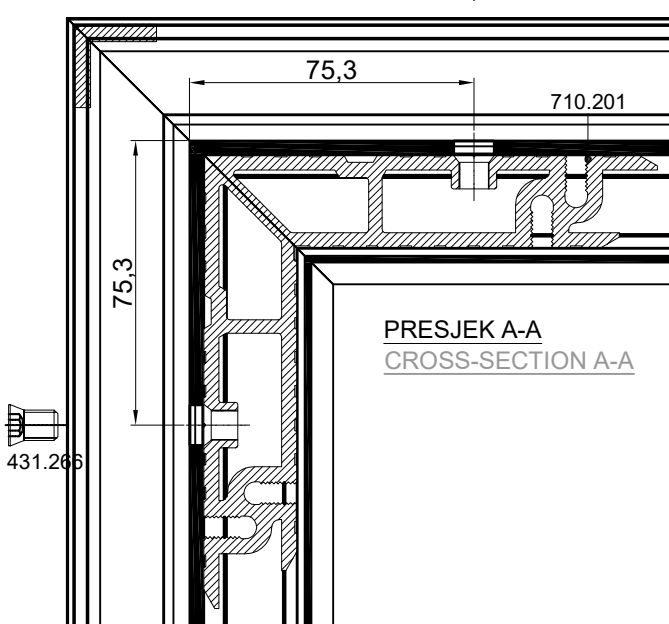
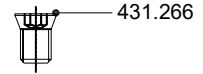
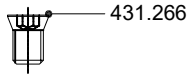
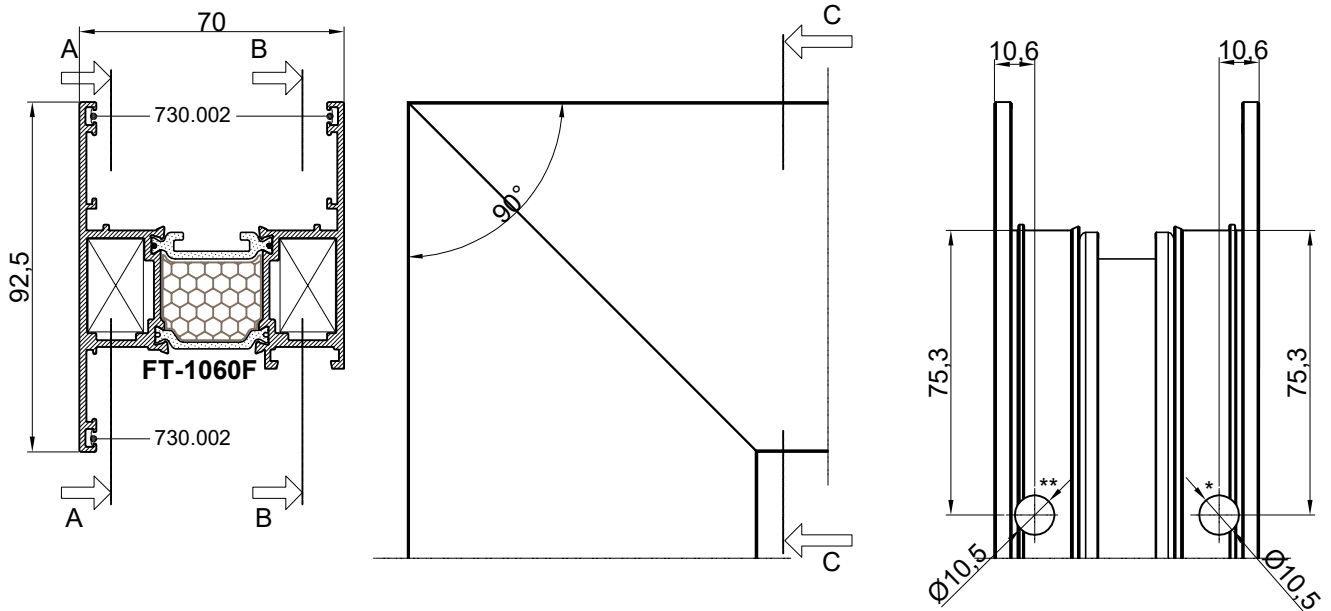
REMARK: JOINING PROFILES USING
CORNER BRACKETS (screw connection)



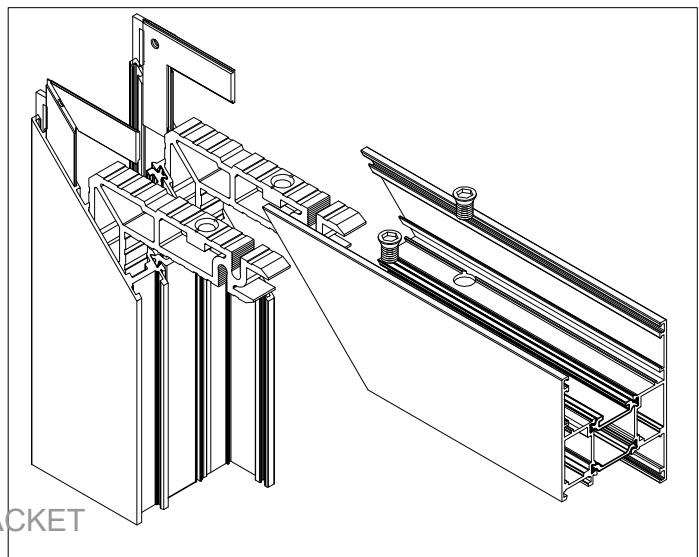


NAPOMENA: SPAJANJE PROFILA KUTNIM
SPOJNICAMA (upresavanje)
REMARK: JOINING PROFILES USING
CORNER BRACKETS (cor. crimping)

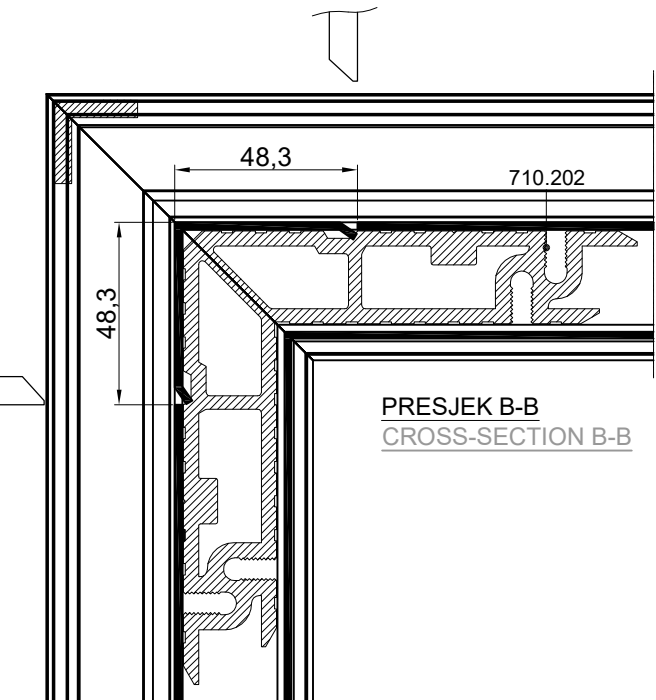
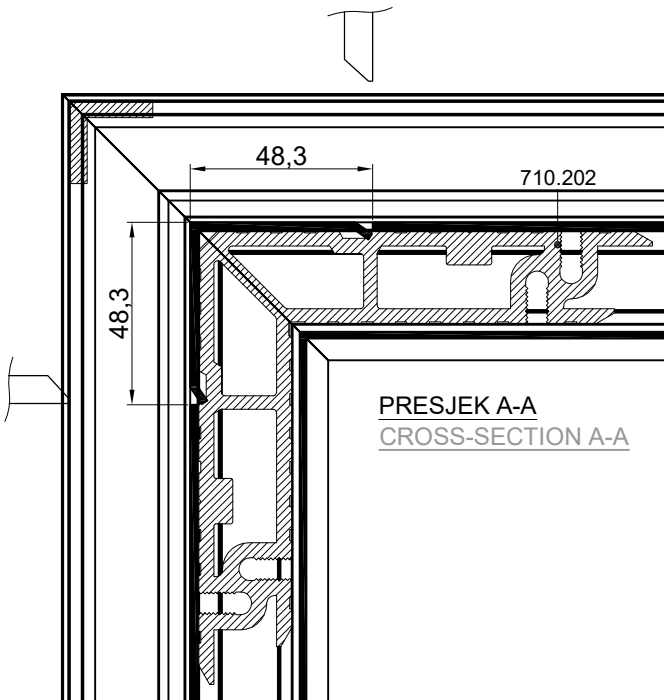
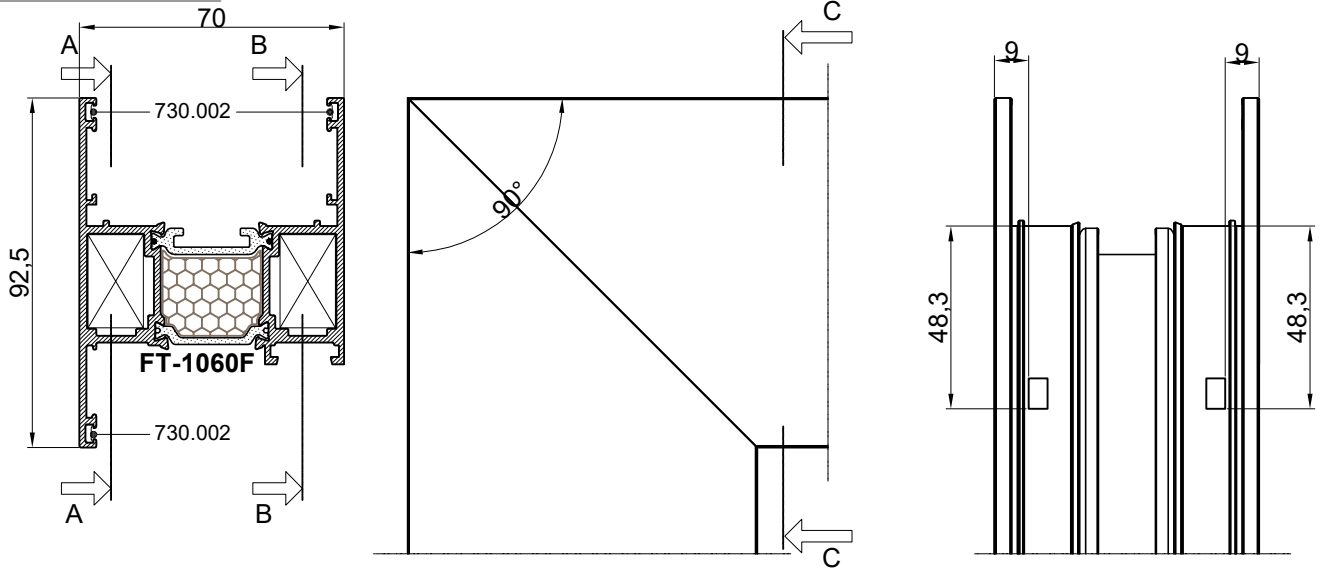
PRESJEK C-C
CROSS-SECTION C-C



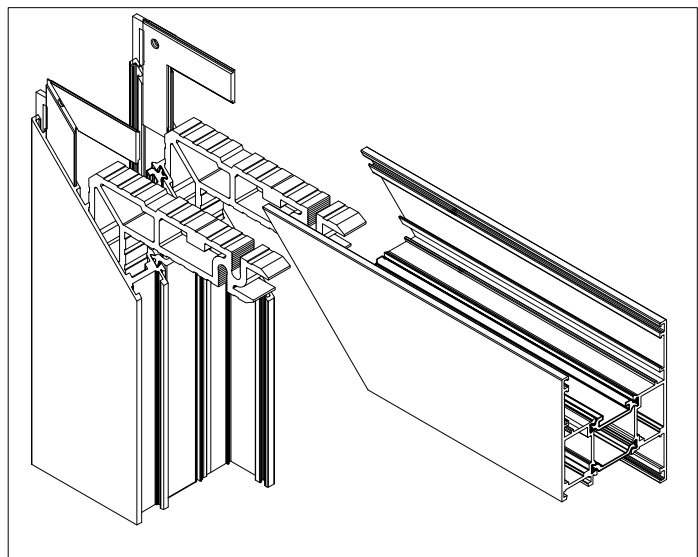
NAPOMENA: ZBOG UGRADNJE OKOVA
PREPORUČUJE SE UGRADNJA KUTNIKA
U KRILU NA UTISKIVANJE (bez vijaka)
REMARK: BECAUSE OF THE HARDWARE
INSTALLATION, EMBEDMENT CORNER BRACKET
ON SASH IS RECOMMENDED (no screws)

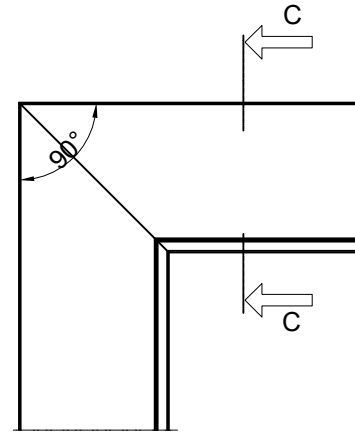
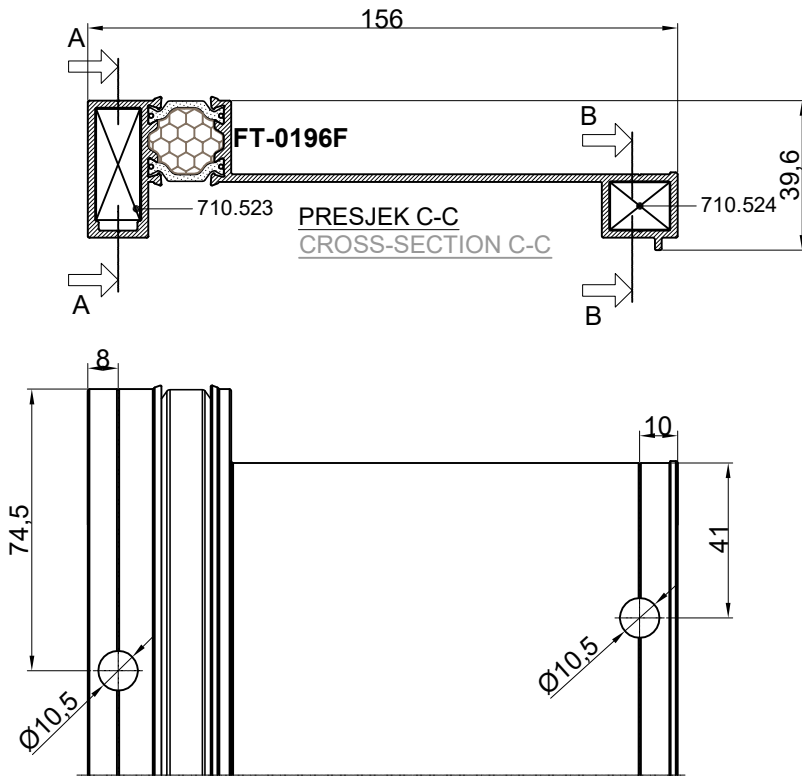


PRESJEK C-C
CROSS-SECTION C-C

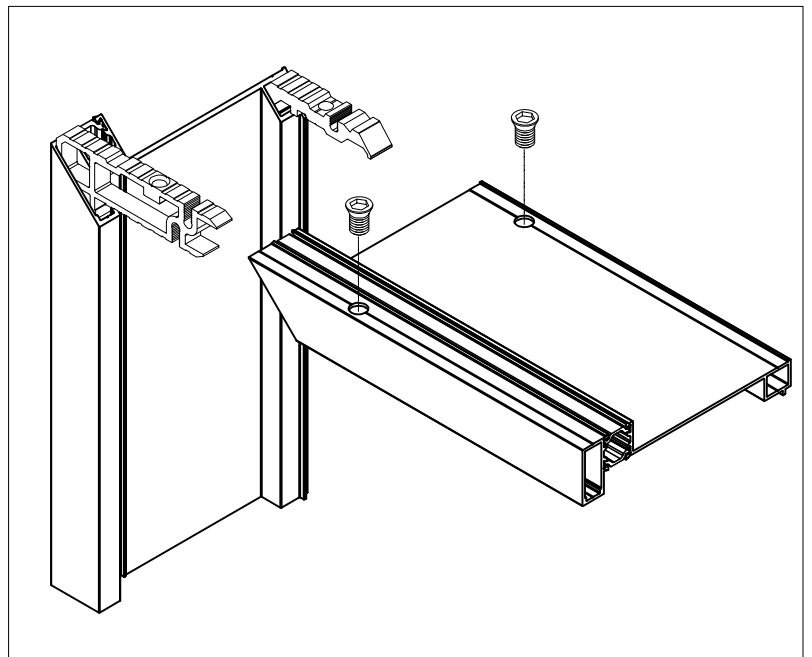
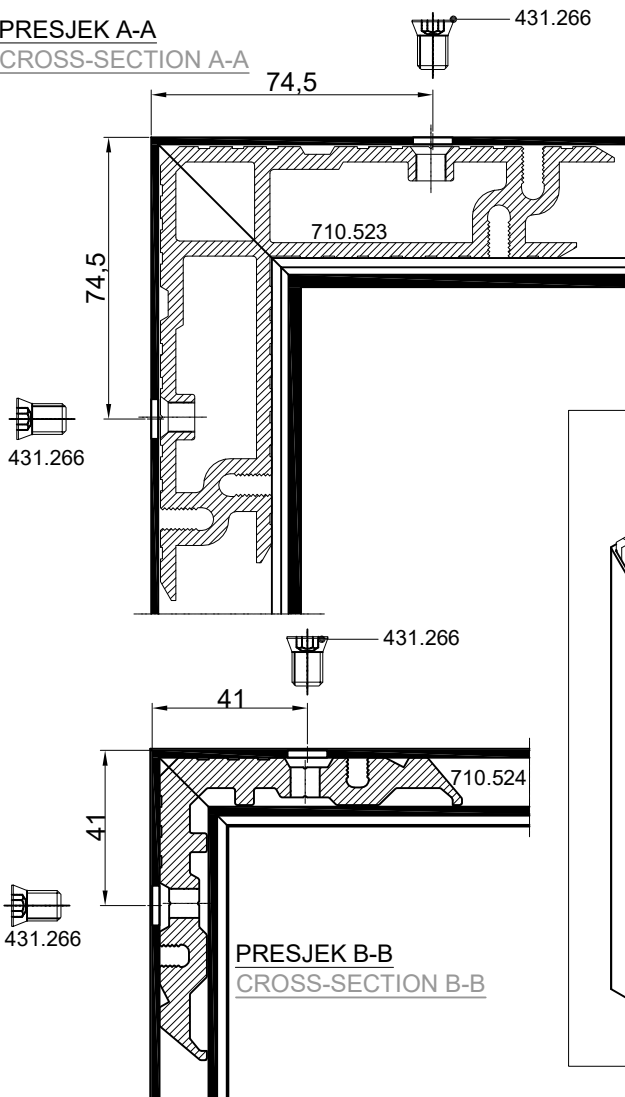


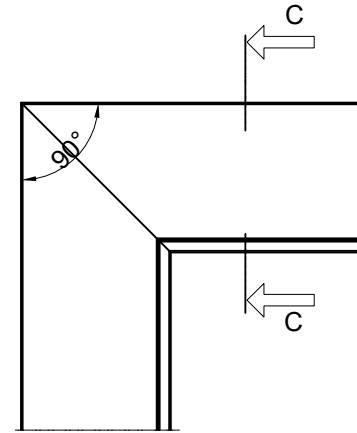
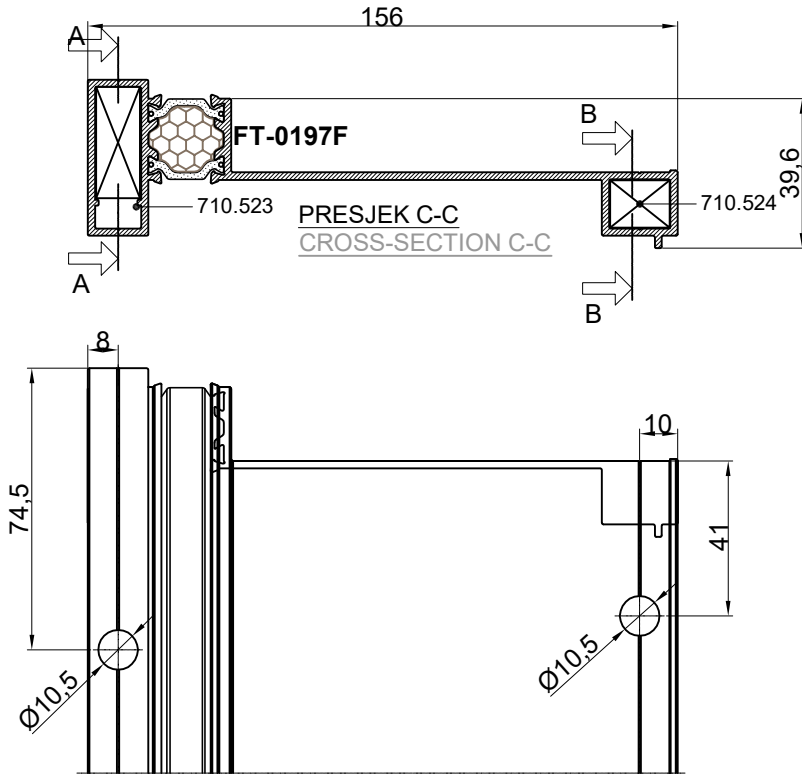
NAPOMENA: ZBOG UGRADNJE
OKOVA PREPORUČUJE SE
UGRADNJA KUTNIKA U KRILU NA
UTISKIVANJE (bez vijaka)
REMARK: BECAUSE OF THE
HARDWARE
INSTALLATION, EMBEDMENT
CORNER BRACKET ON SASH IS
RECOMMENDED (no screws)



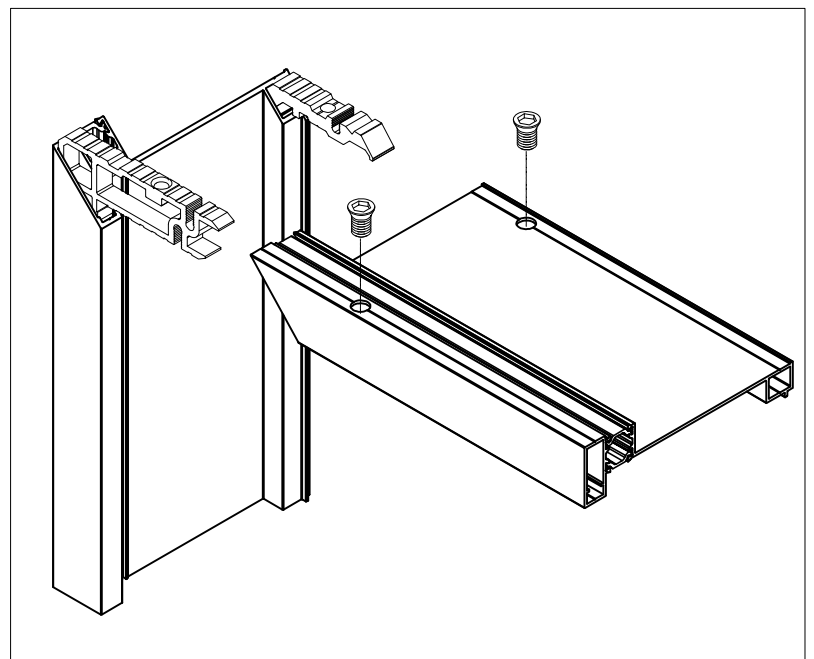
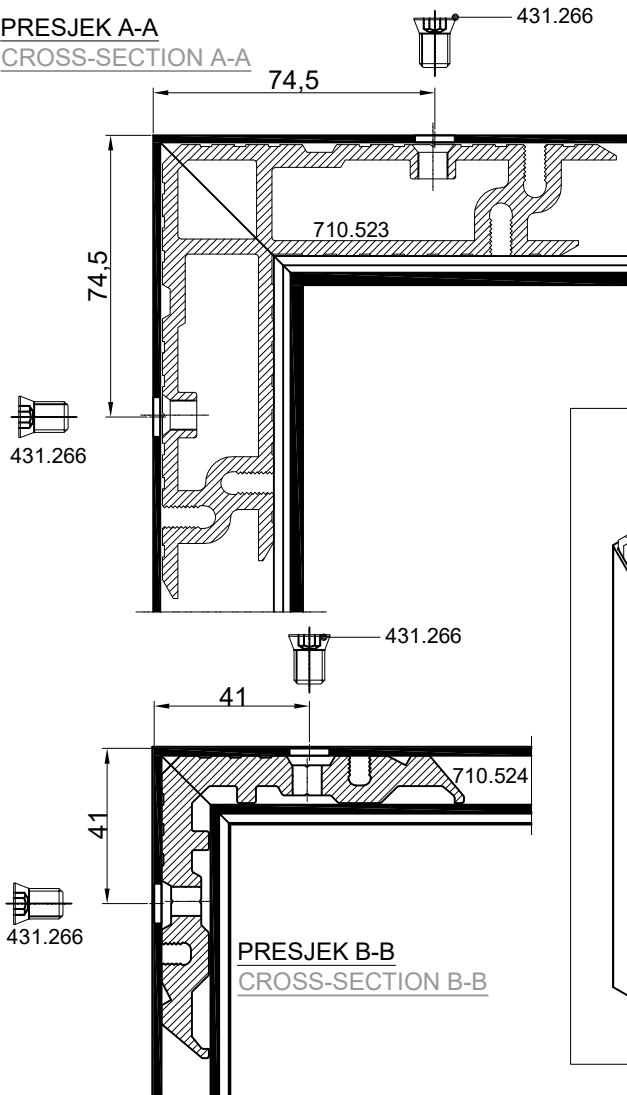


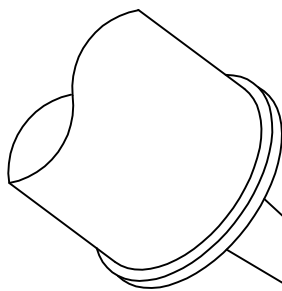
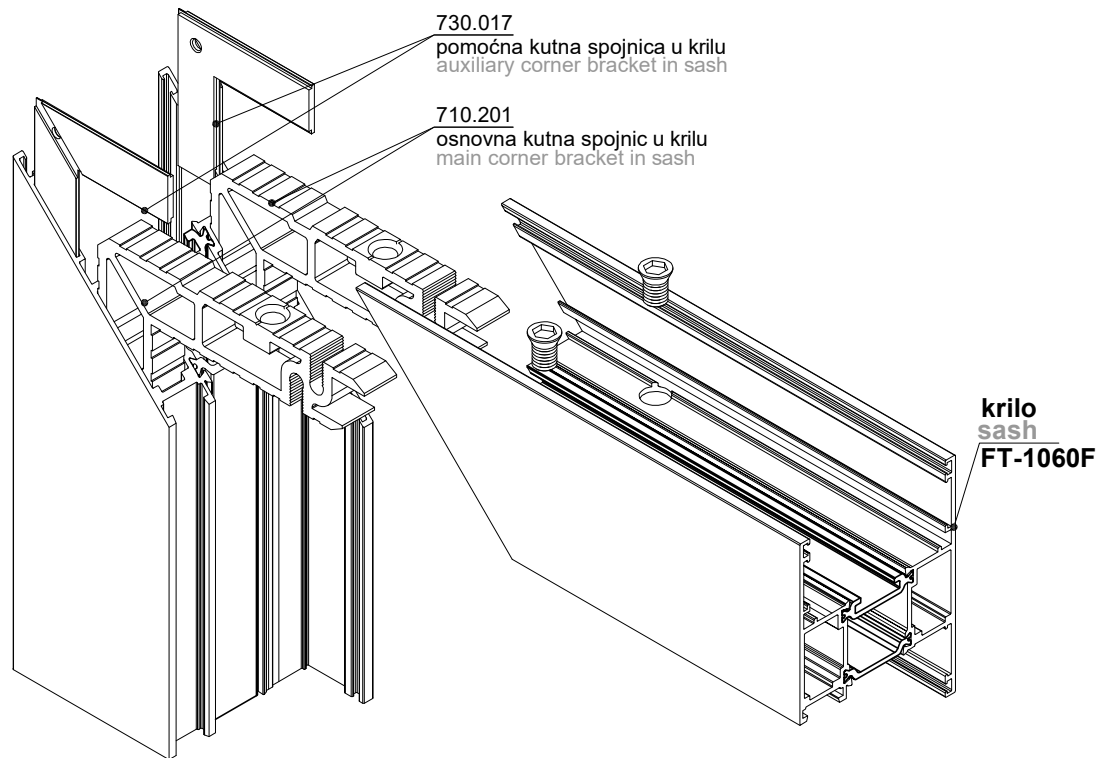
PRESJEK A-A
CROSS-SECTION A-A





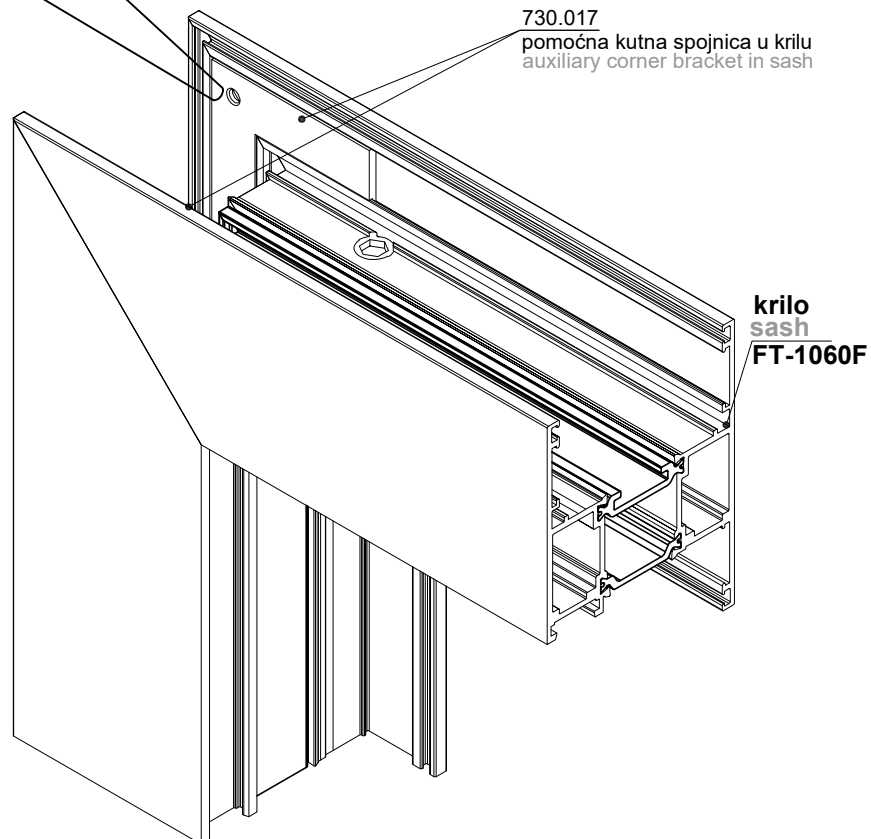
PRESJEK A-A
CROSS-SECTION A-A



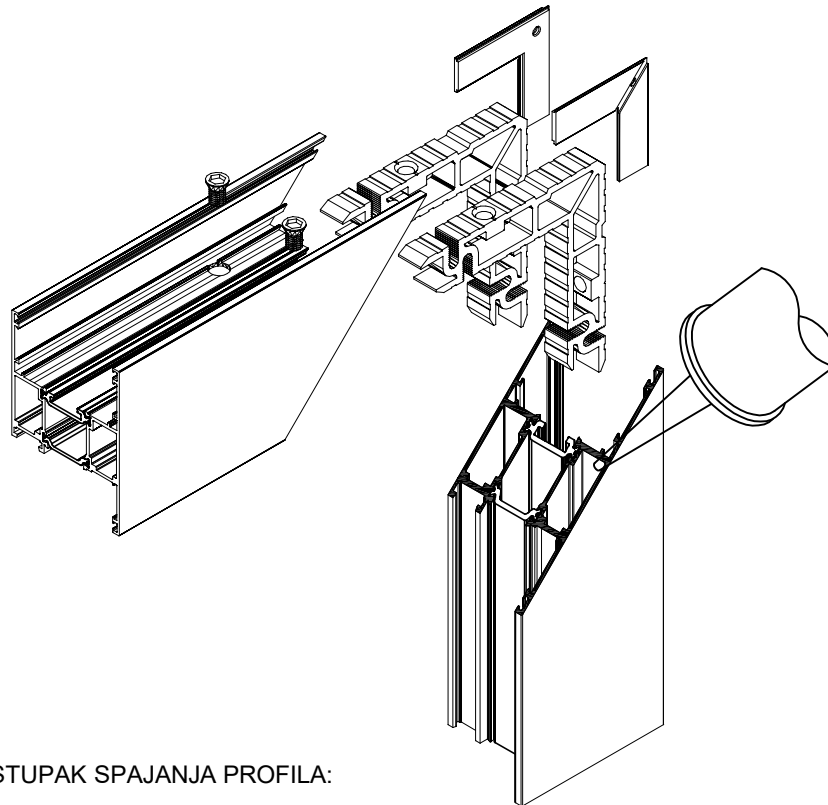


Kroz otvor na kutniku ubrizgati dvokomponentno ljepilo
(npr. Wurth 2K-PUR - 0892 135)

Inject two-component adhesive through opening located on corner bracket
(e.g. Wurth 2K-PUR - 0892 135)



SPAJANJE PROFILA KUTNIM SPOJNICAMA SPAJANJE PROFILA KUTNIM SPOJNICAMA



POSTUPAK SPAJANJA PROFILA:

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

NAPOMENA:

Ovaj postupak spajanja profila primjenjiv je za sve Feal-ove kutnike i njima odgovarajuće komore:

Lijepljenjem rezova i kutnika ljepilima za metal osigurava se potrebna zrako- i vodonepropusnosti spoja kao i dodatna mehanička čvrstoća spoja.

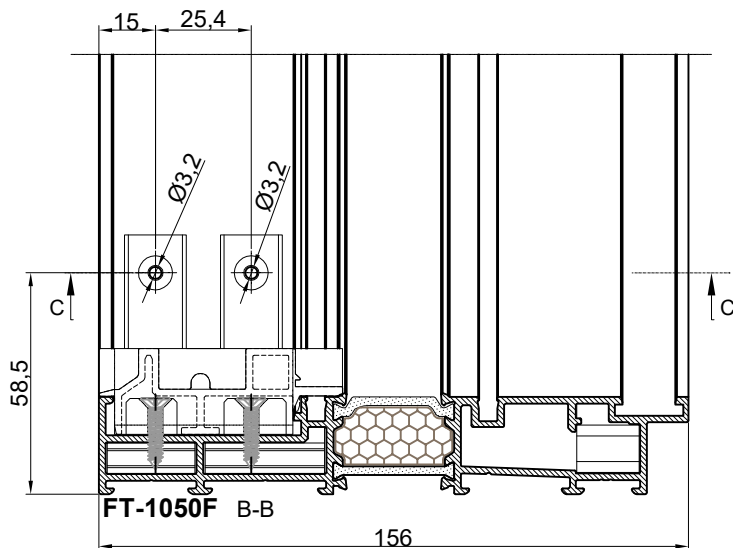
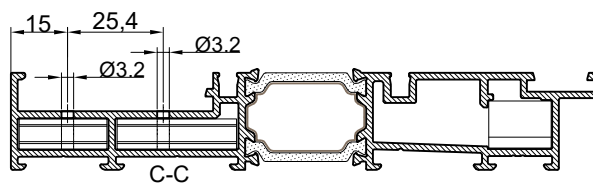
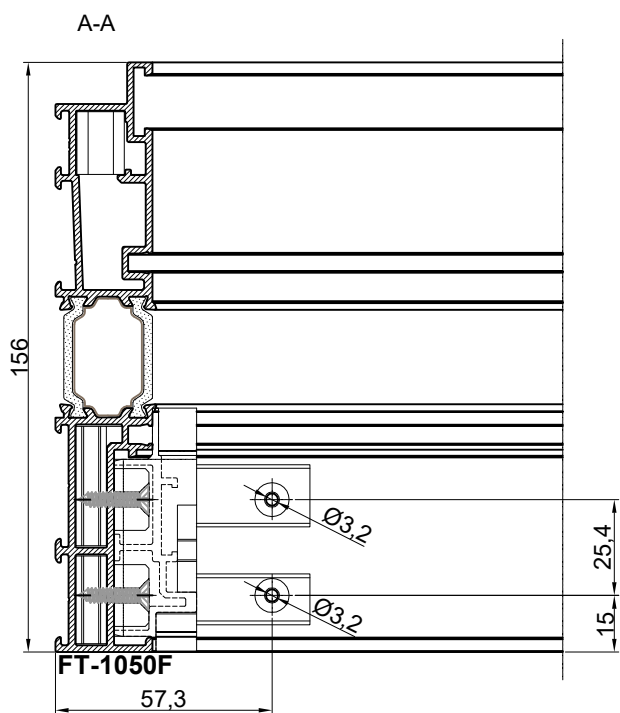
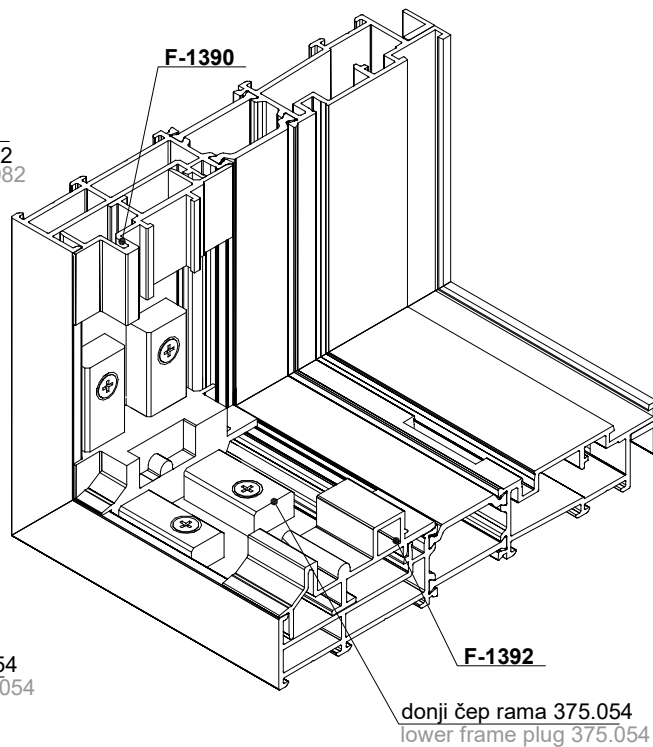
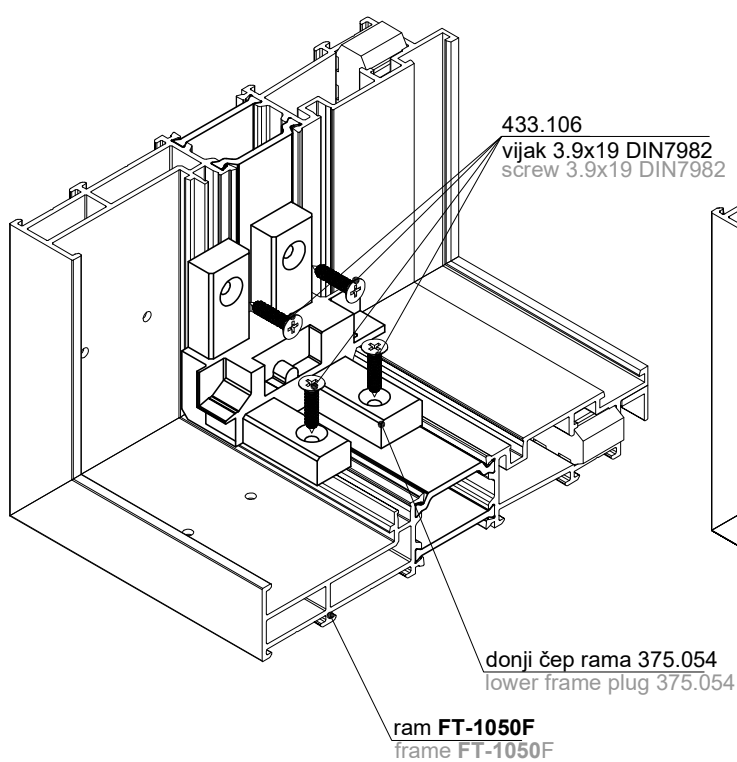
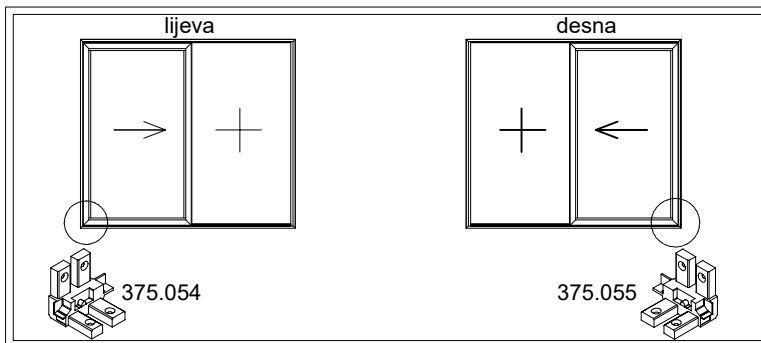
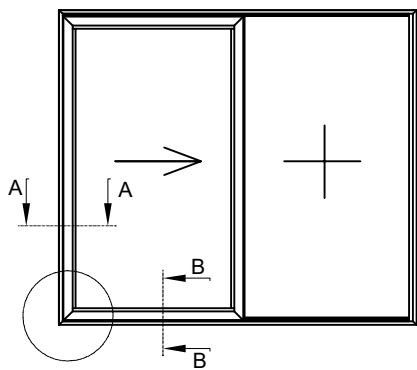
PROFILE MERGING PROCEDURE:

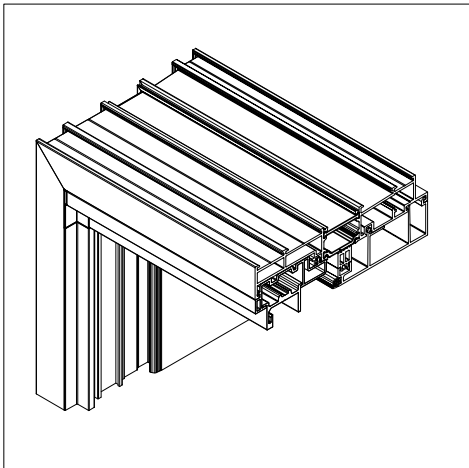
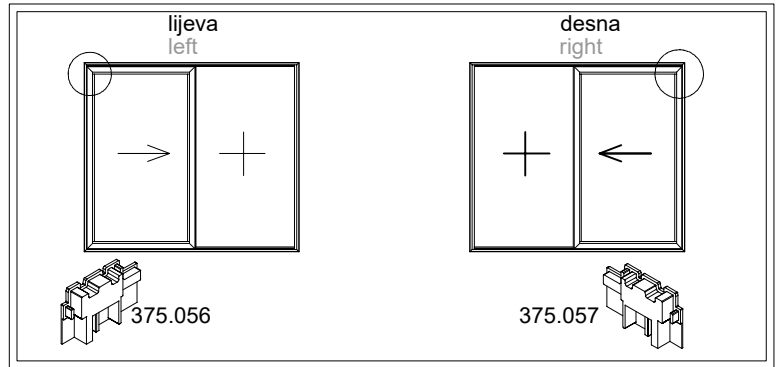
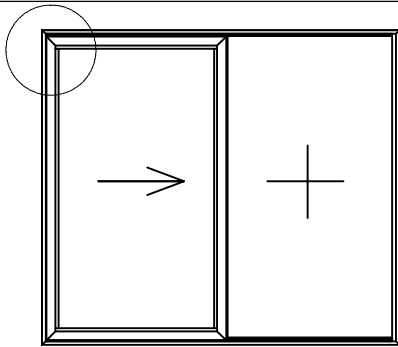
1. Surfaces that are being merged-clean and degrease cuts using adequate cleanser /i.e.Sika Remover 208; Wurth-kat.br.:892 130 30/.
2. Use metal adhesive on surfaces that are being merged /i.e. Sika Force 7851; Wurth-kat.br.:892 130 010/.
3. Inject metal adhesive into corner bracket chamber - around the chamber
4. Straighten and join corner bracket profiles
5. Clean part of the adhesive that leaks between cuts using abstergent /i.e.Sika Remover 208; Wurth-kat.br.:892 130 30/.

REMARK:

This profile connecting procedure is applicable on any Feal corner bracket and their suitable chamber:

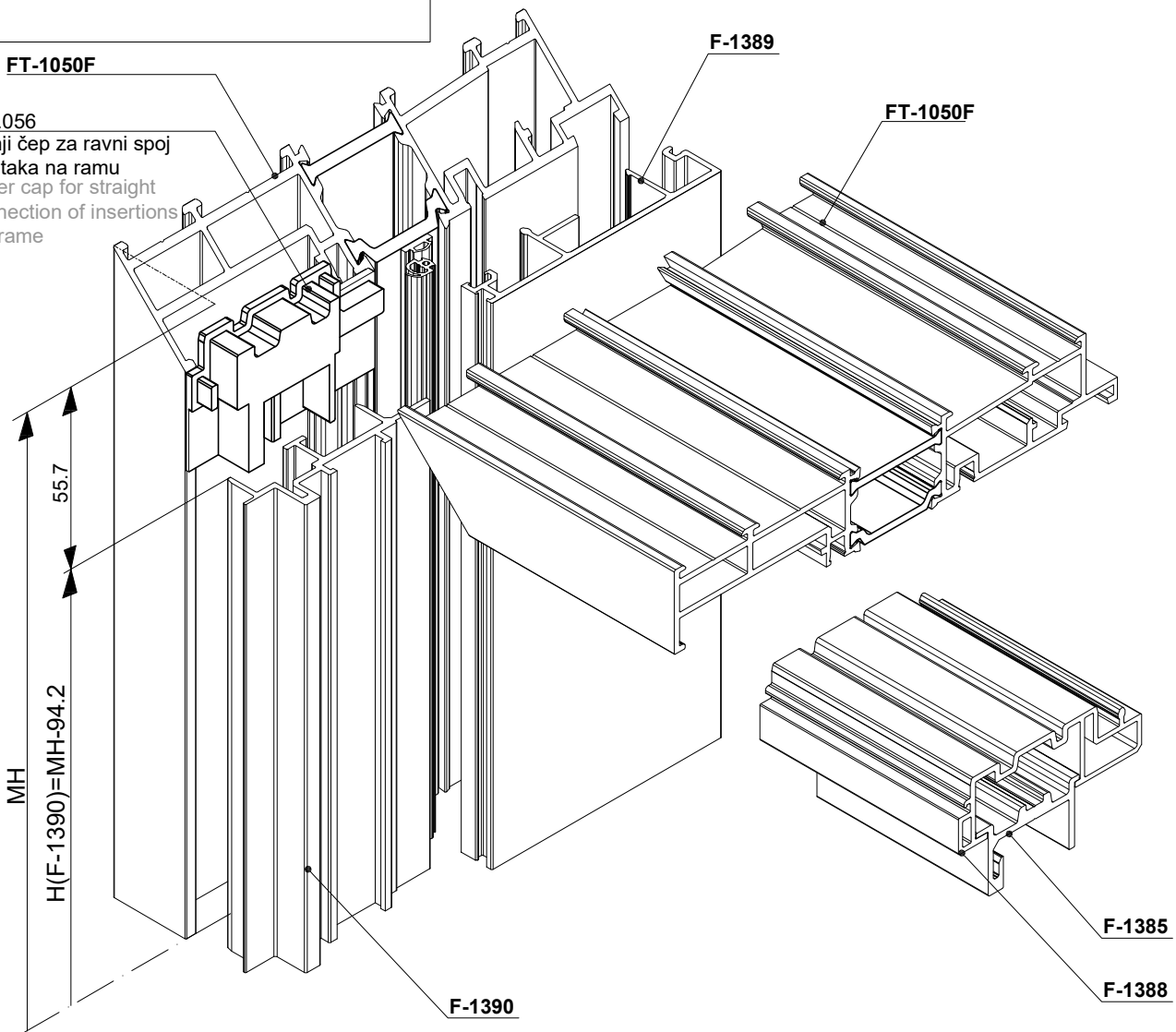
Gluing cuts and corner brackets using adhesives for metal, needed air- and liquid impermeability is provided as well as additional mechanical firmness.

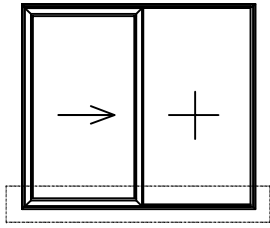




FT-1050F

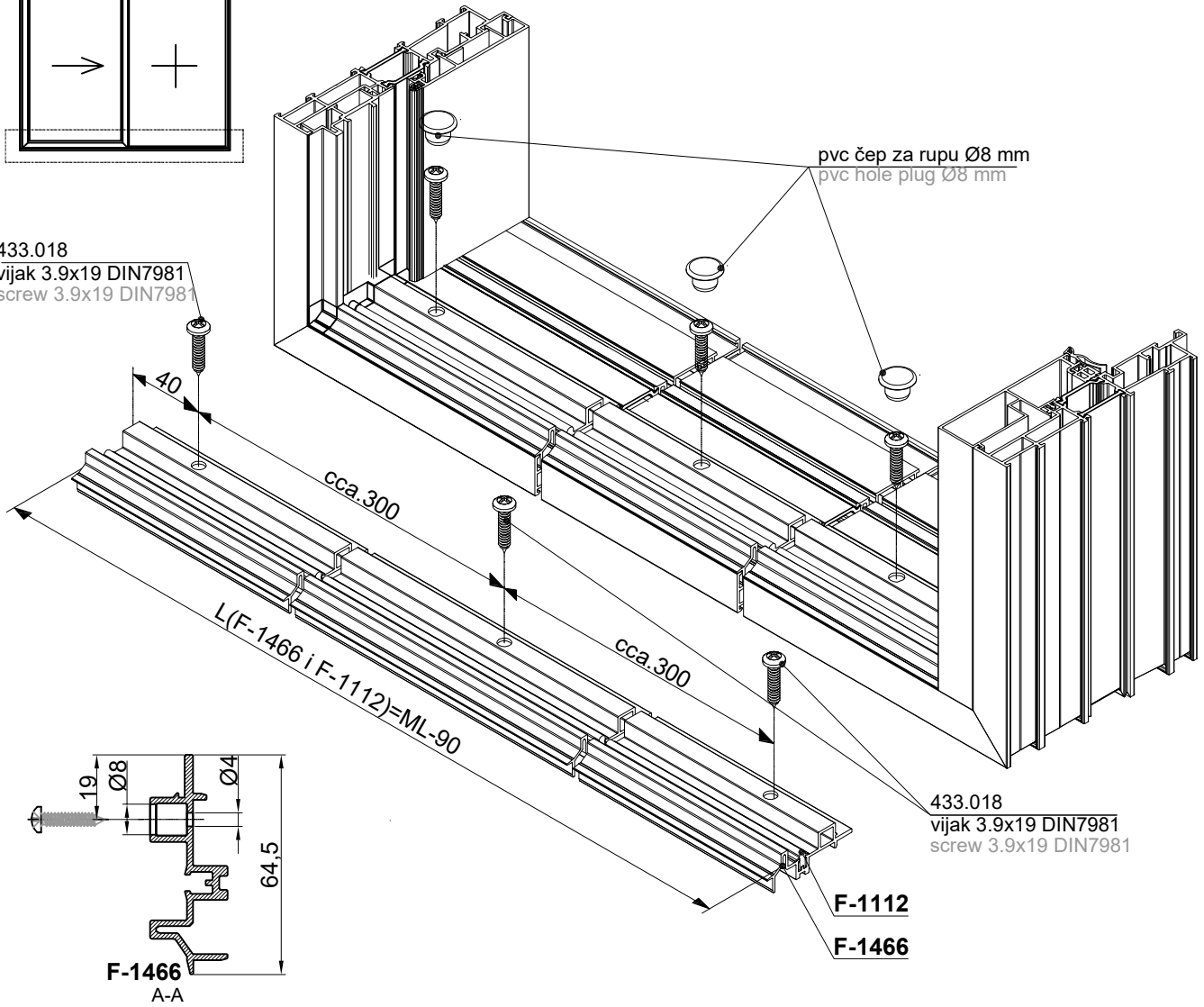
375.056
gornji čep za ravni spoj
umetaka na ramu
upper cap for straight
connection of insertions
on frame





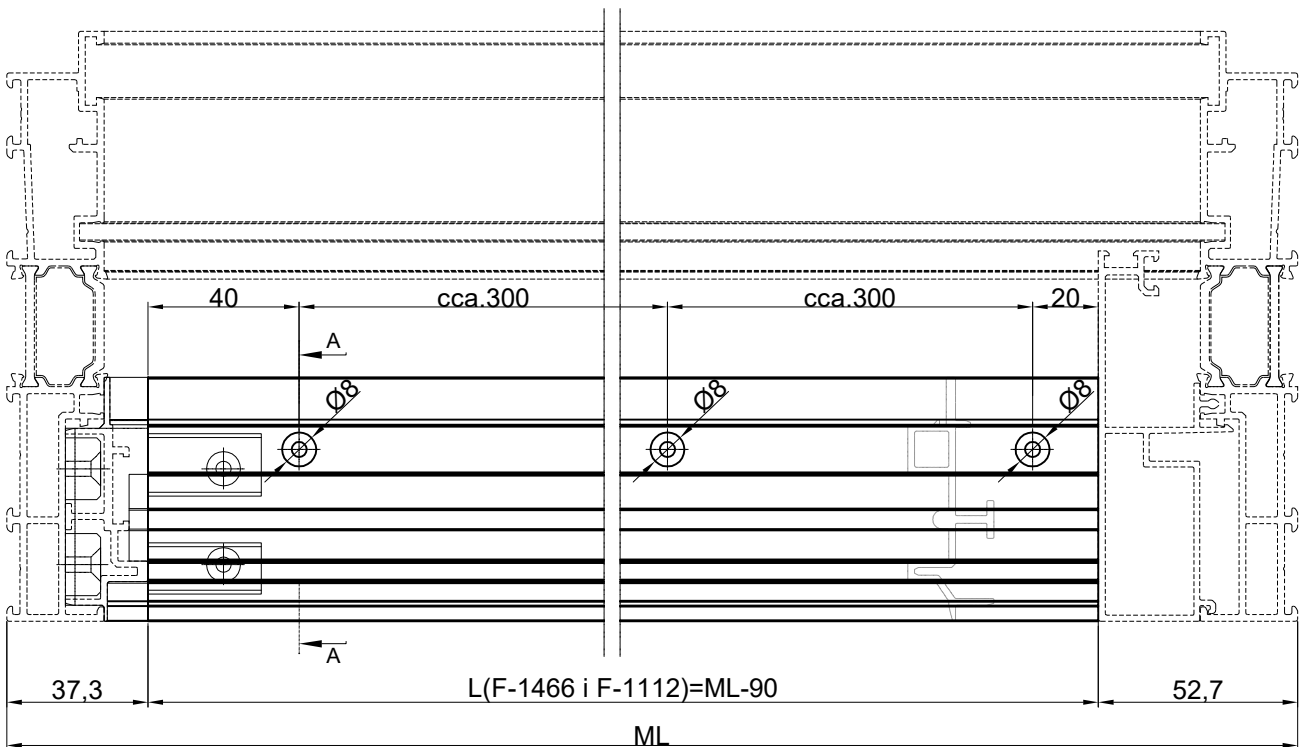
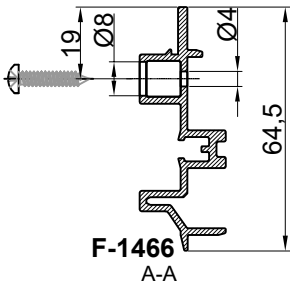
433.018
vijak 3.9x19 DIN7981
screw 3.9x19 DIN7981

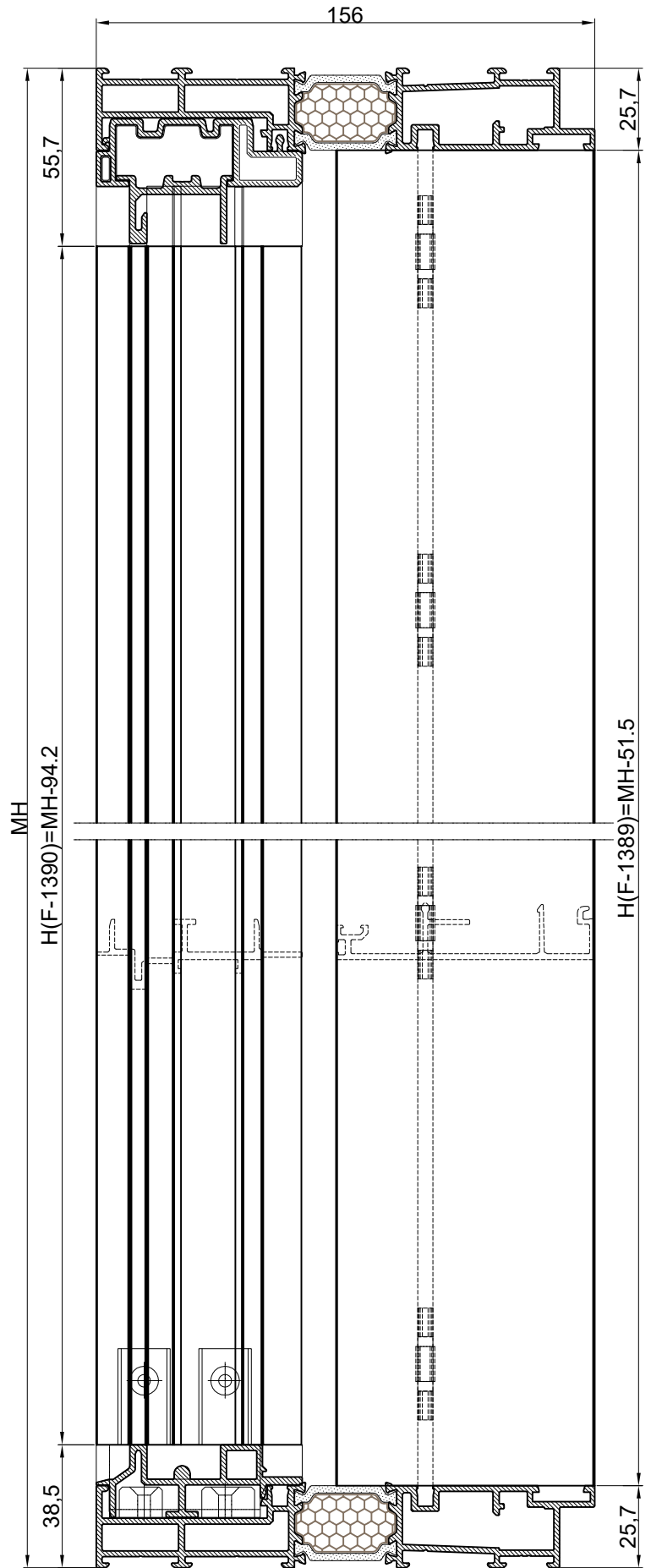
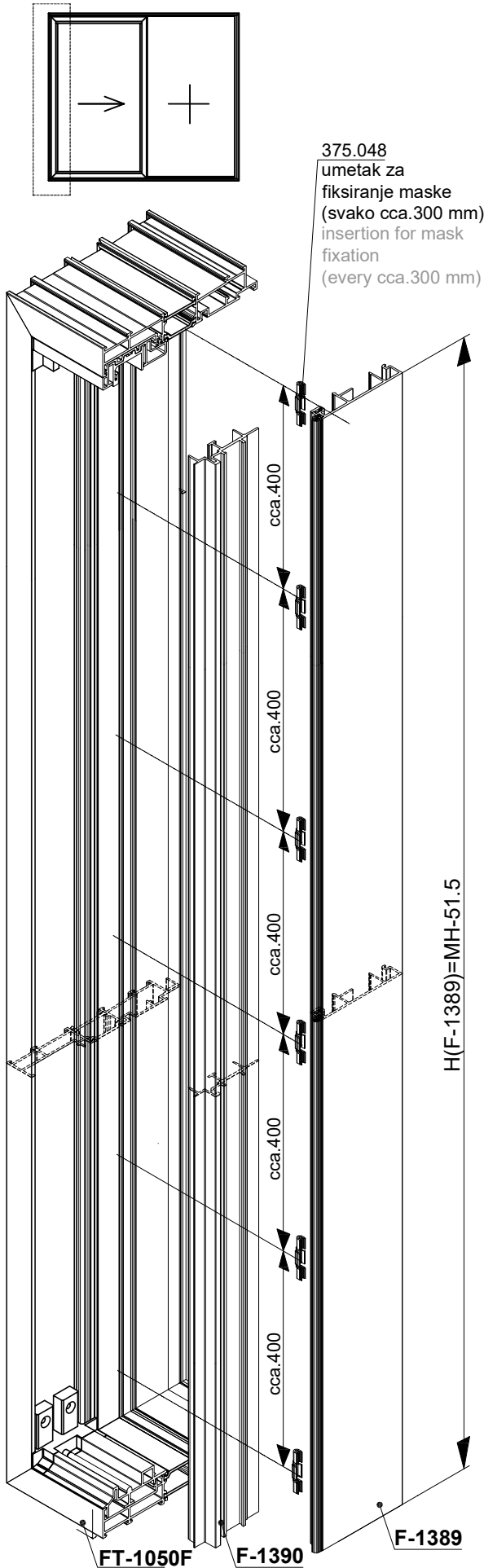
pvc čep za rupu Ø8 mm
pvc hole plug Ø8 mm

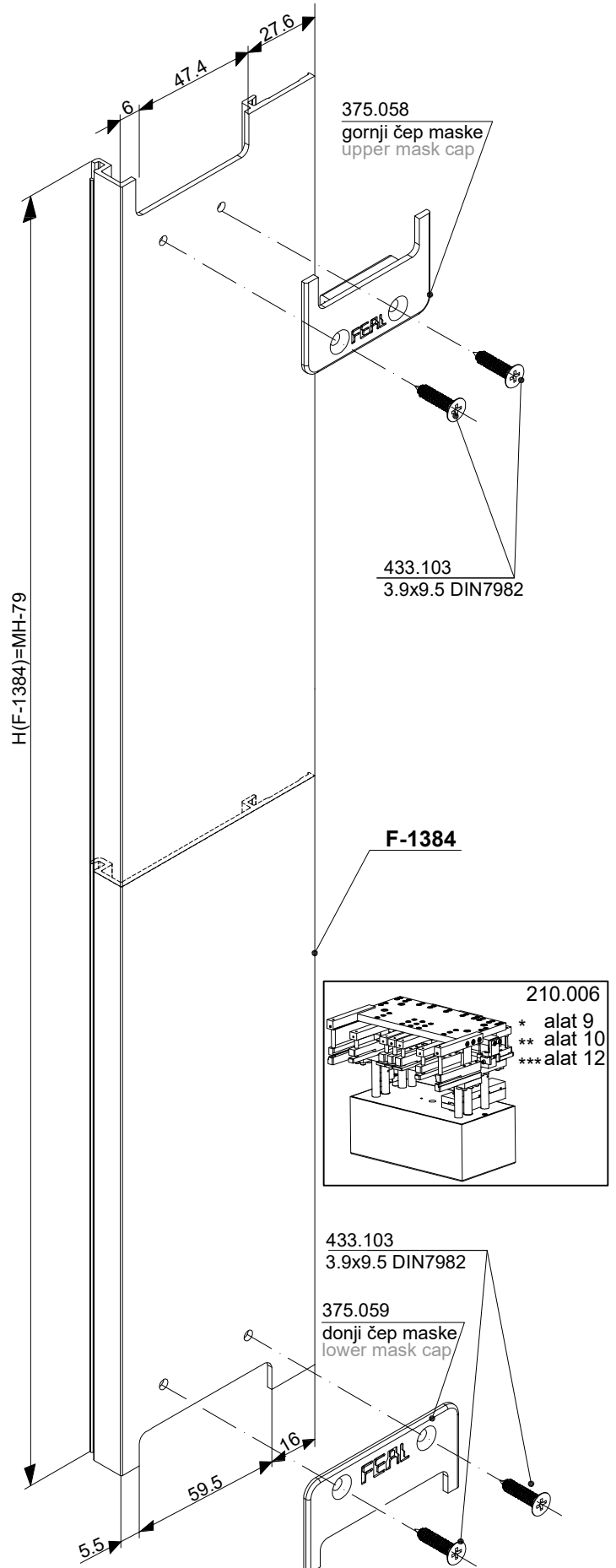
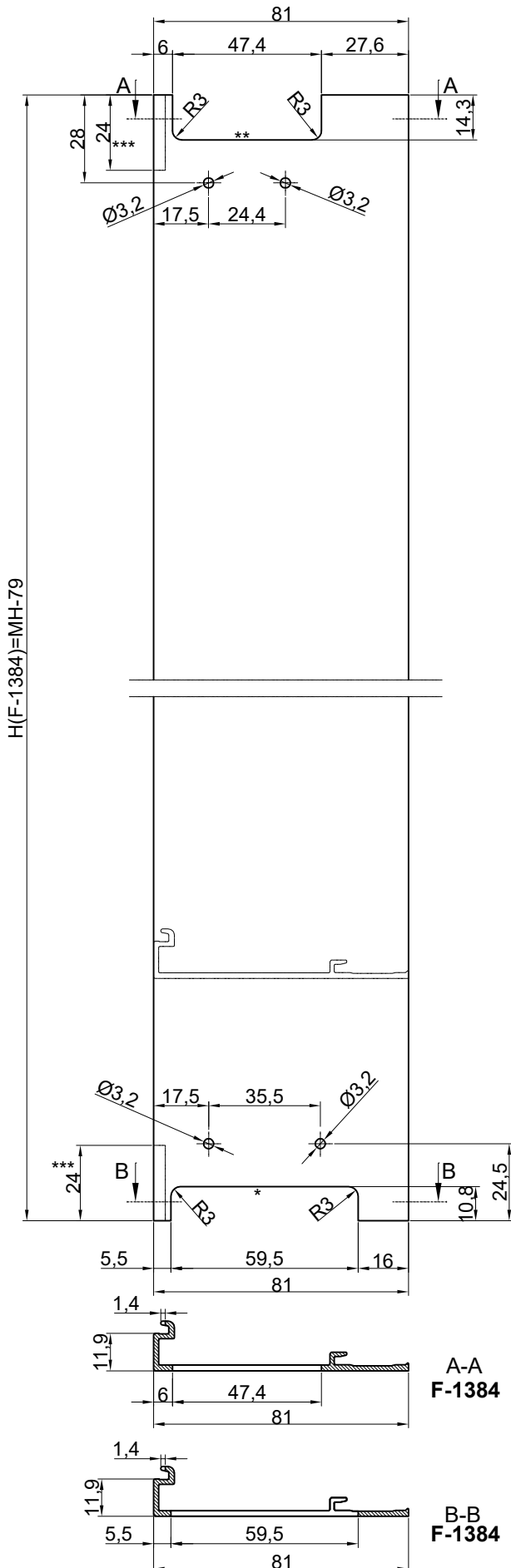


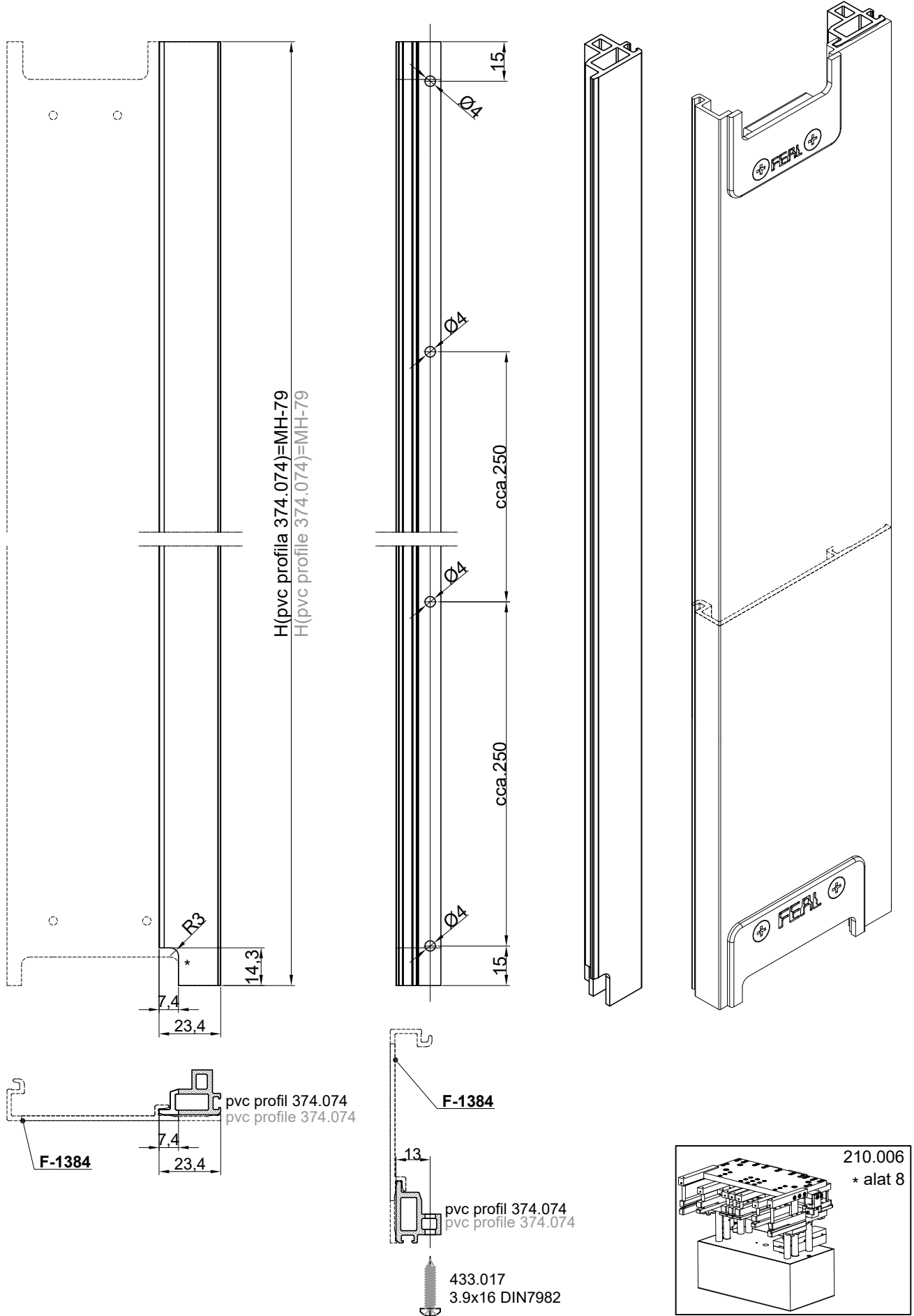
433.018
vijak 3.9x19 DIN7981
screw 3.9x19 DIN7981

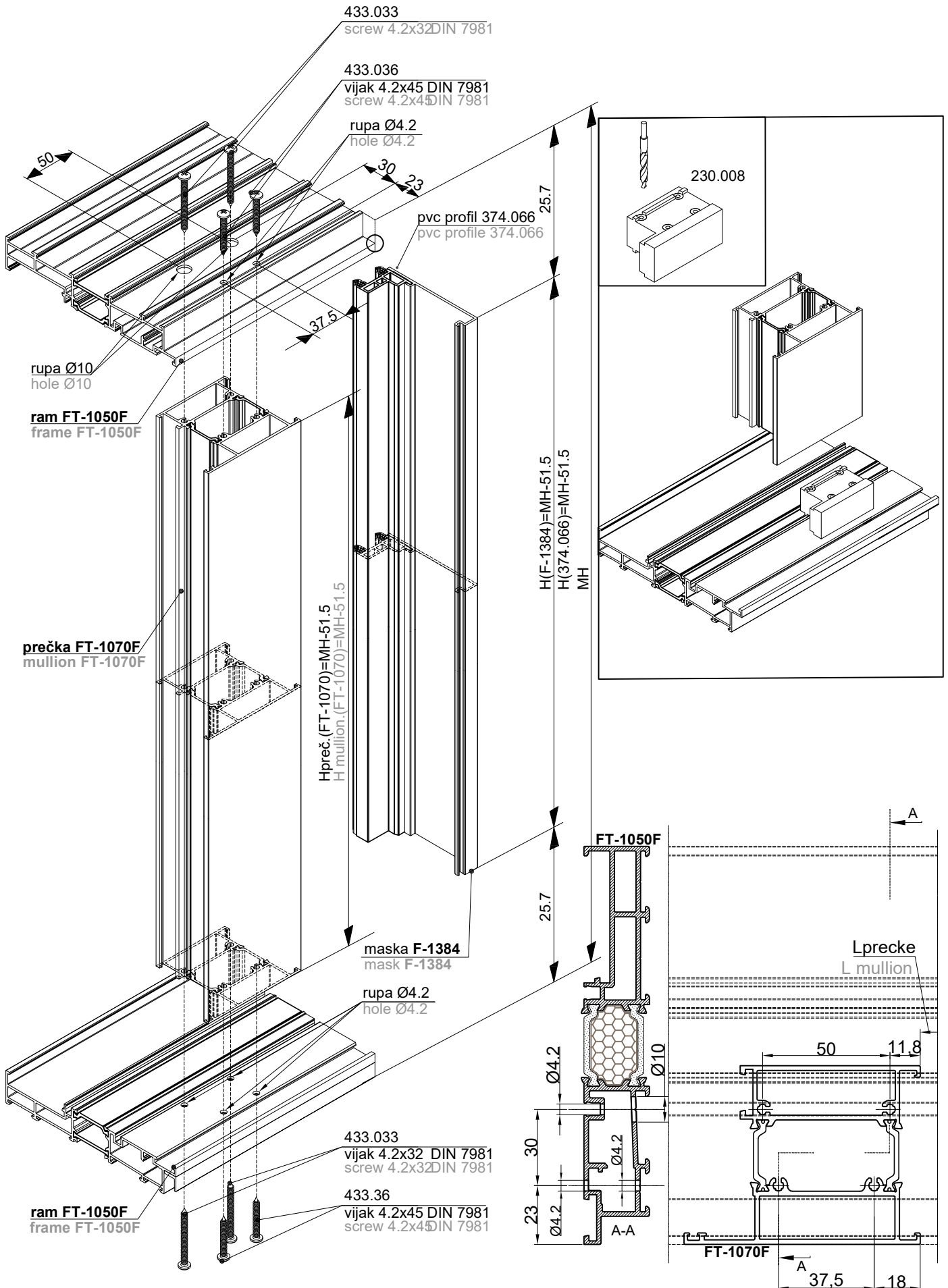
F-1112
F-1466

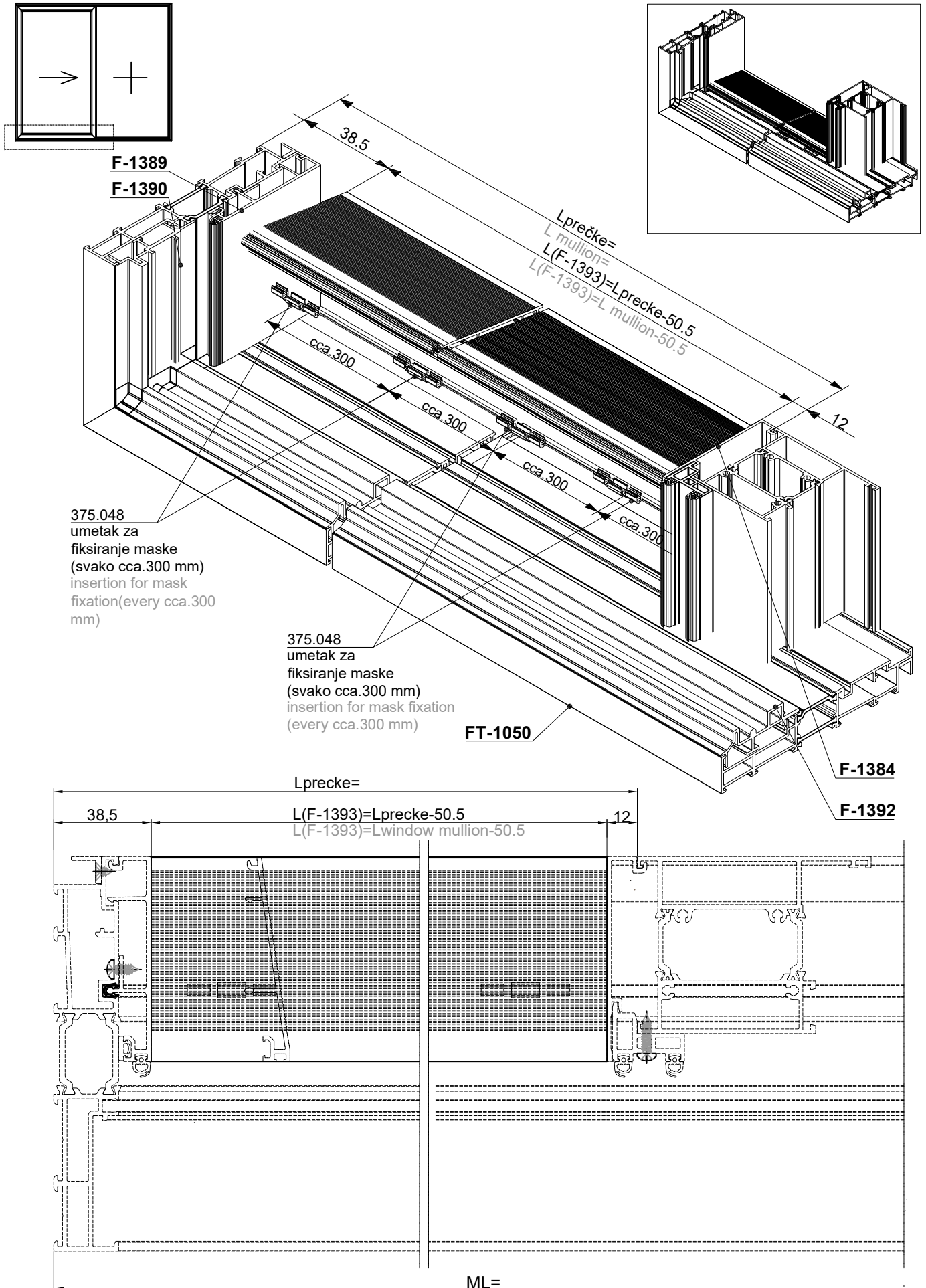


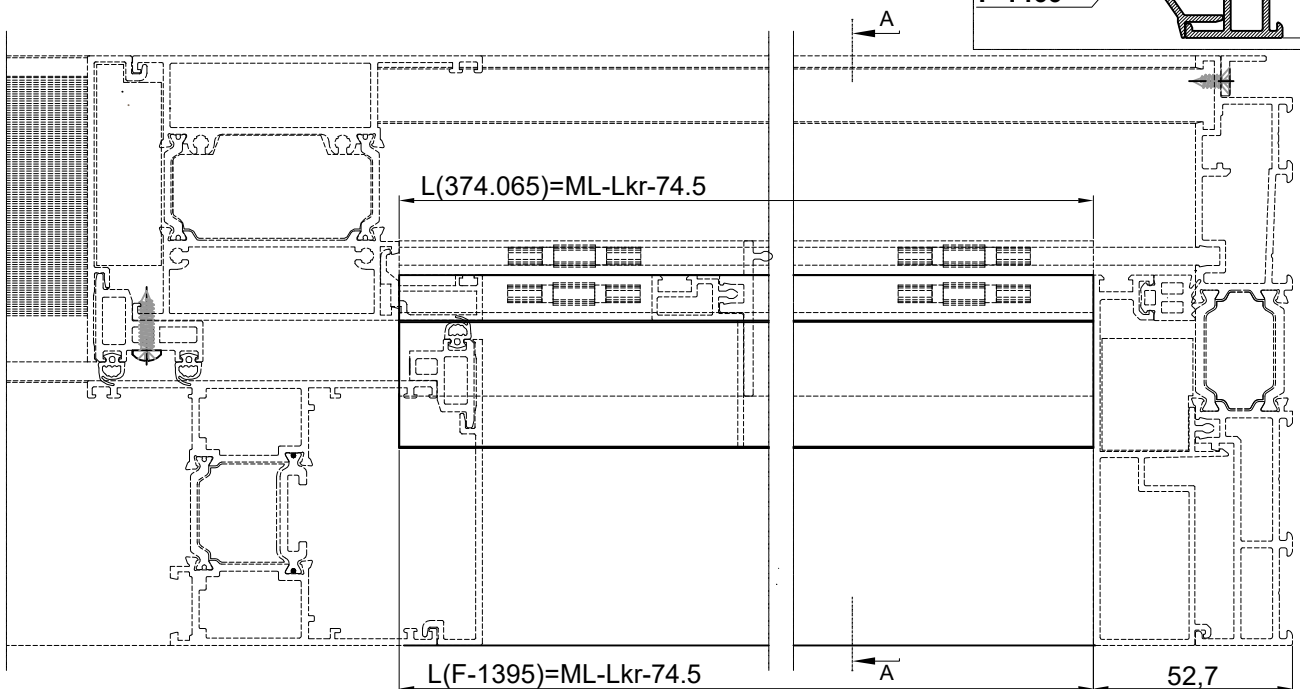
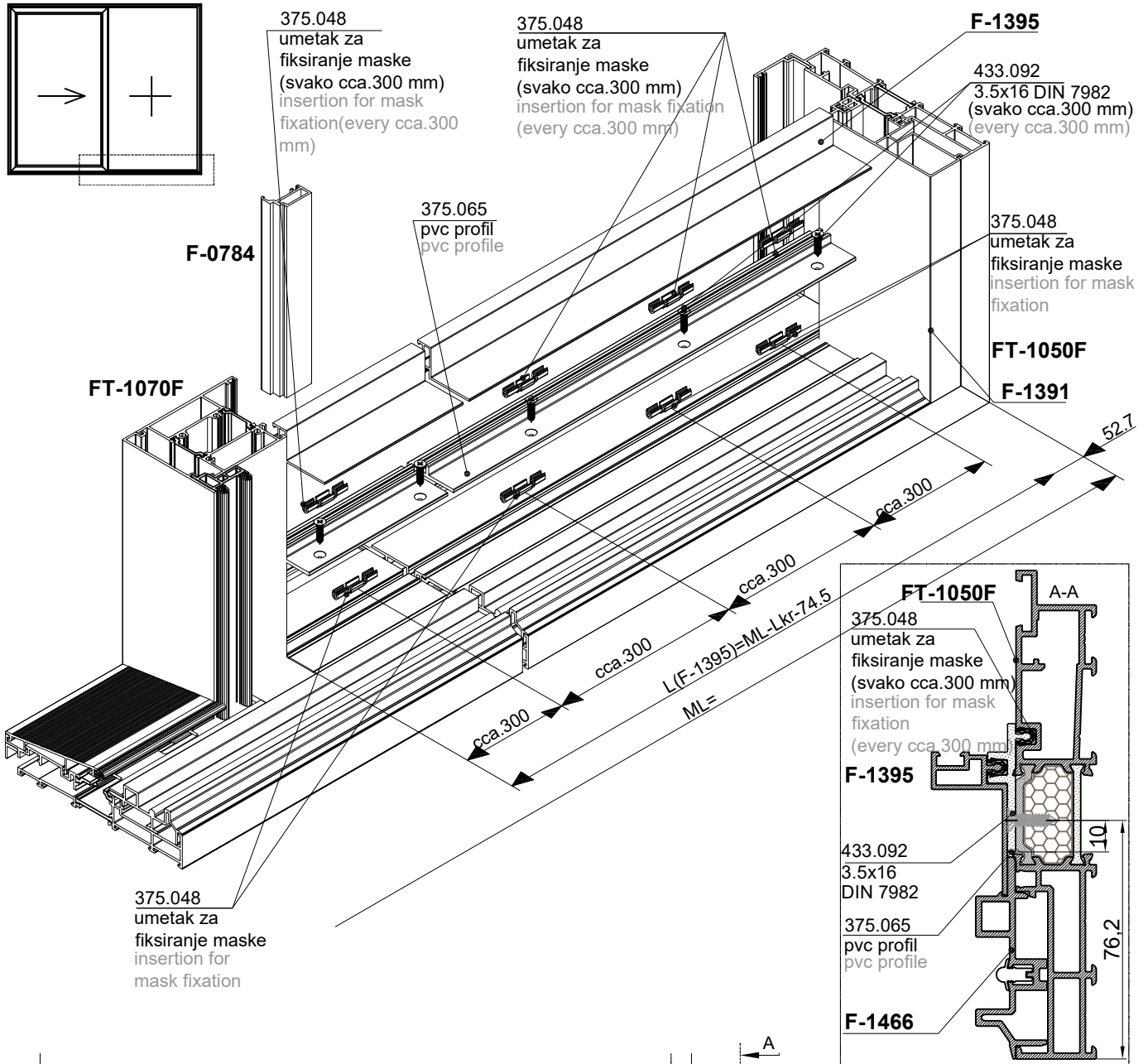






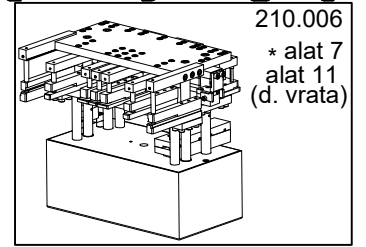
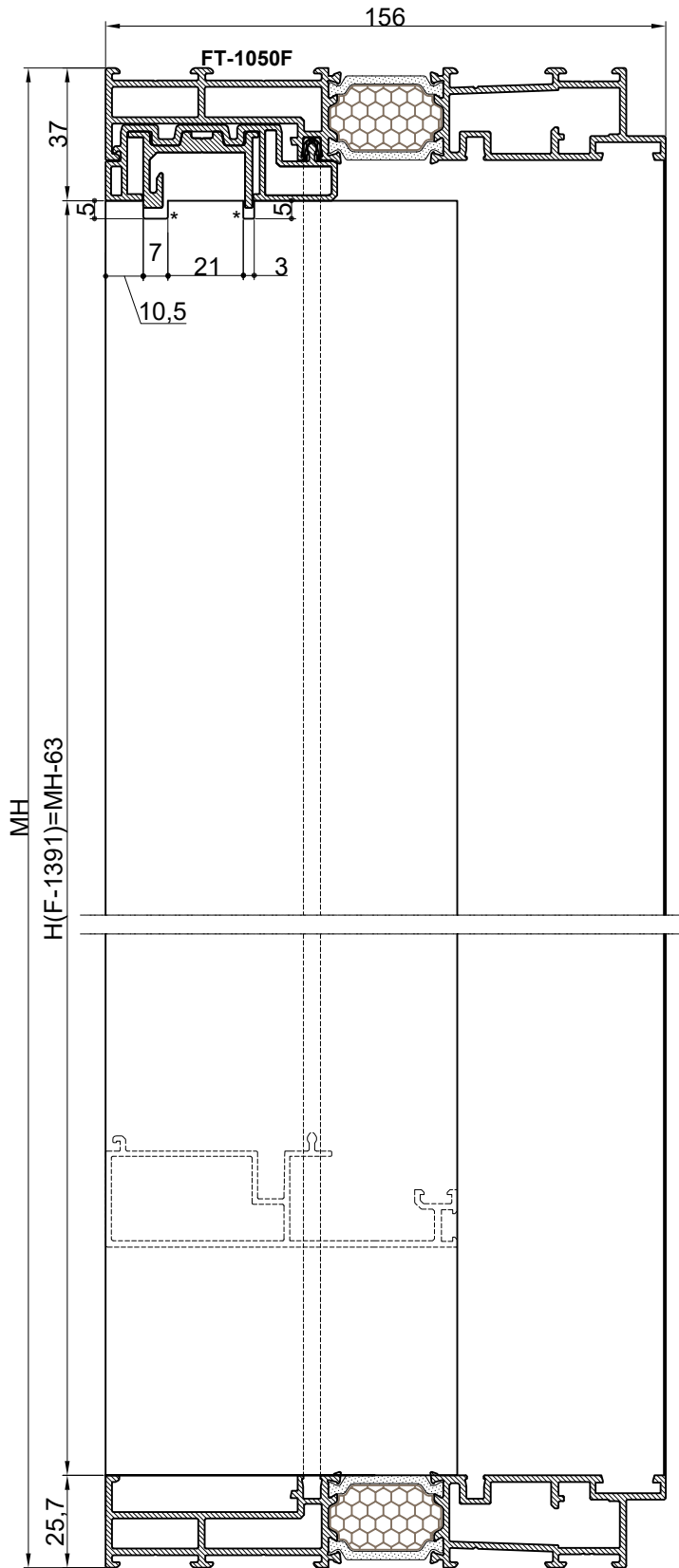
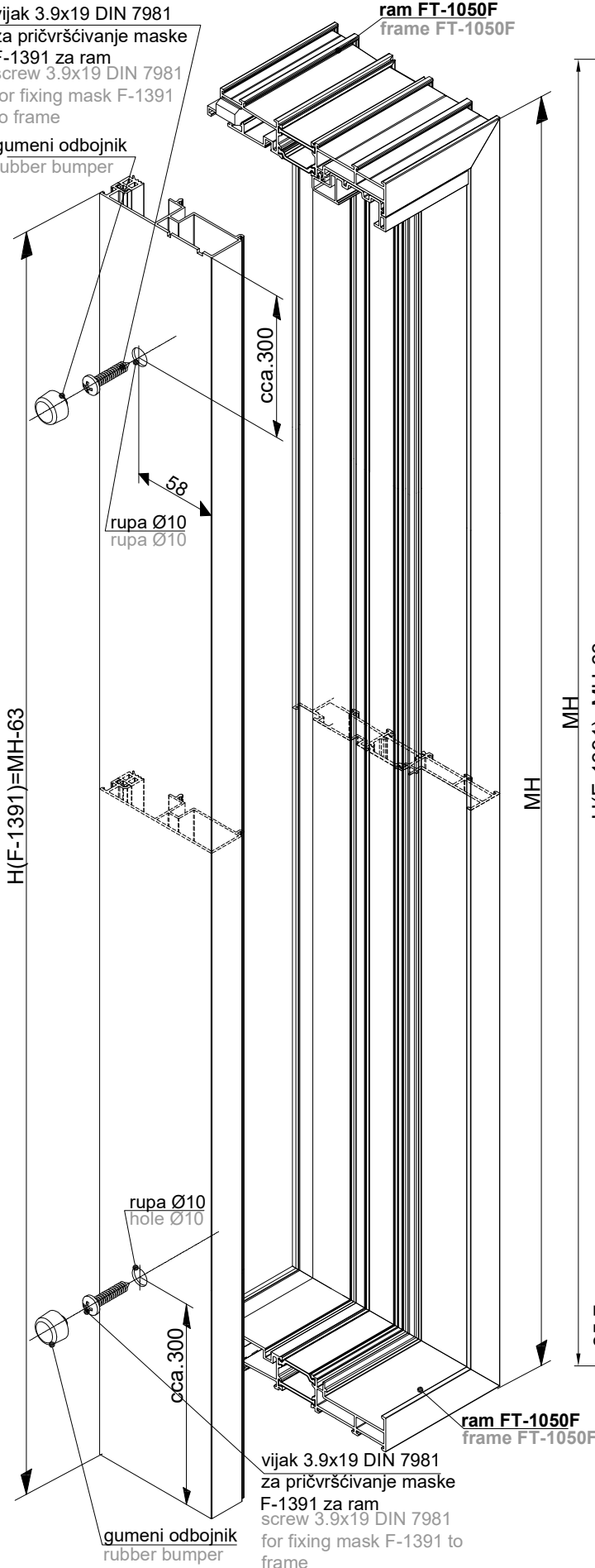


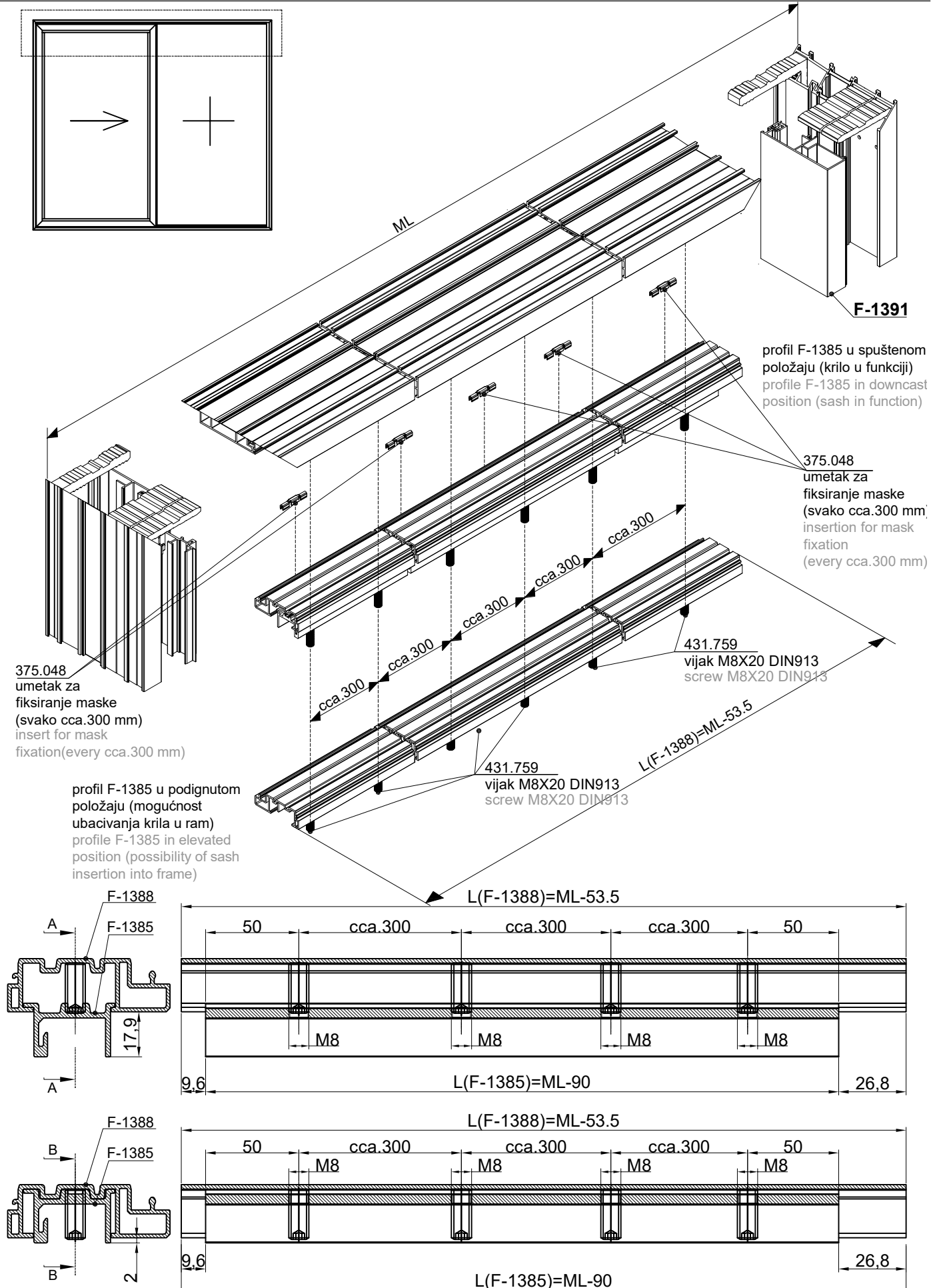


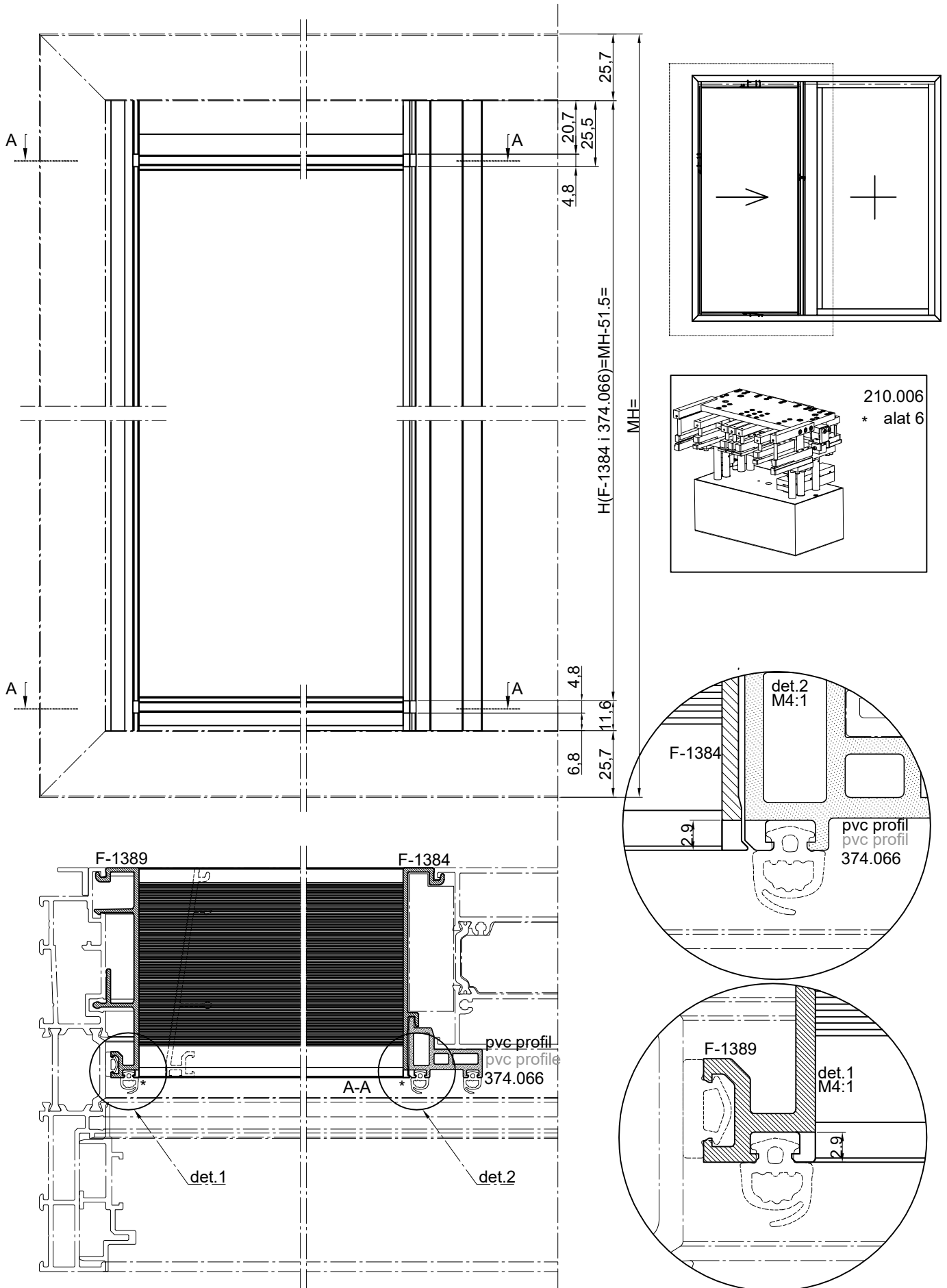


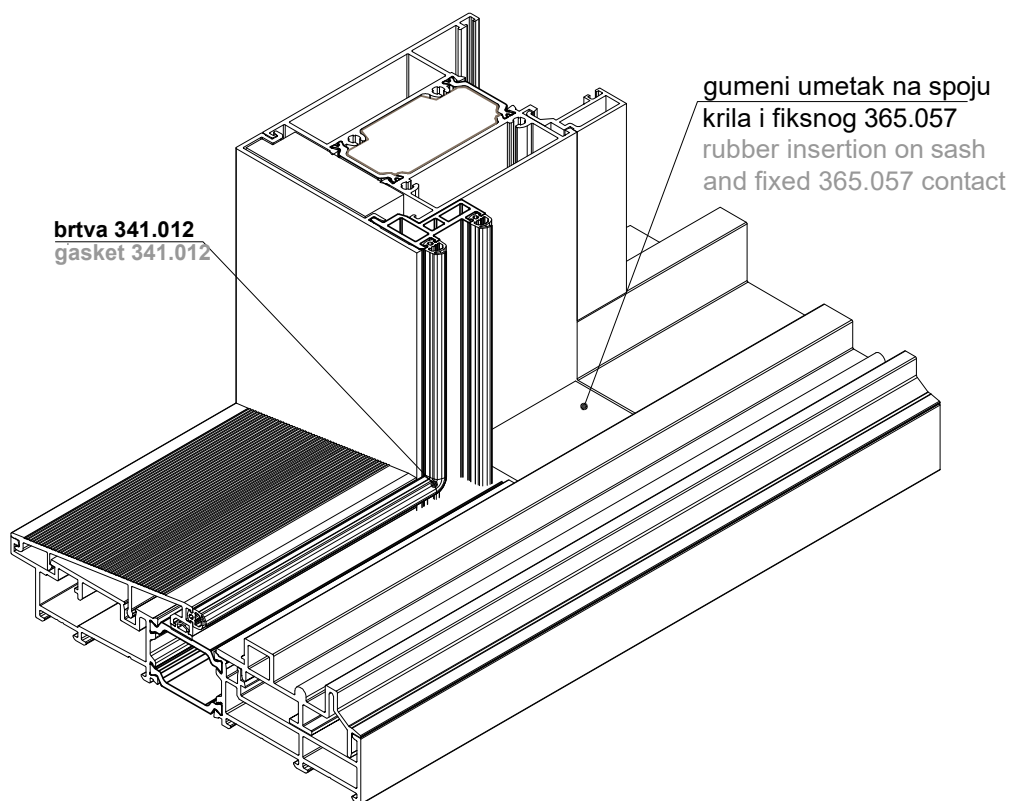
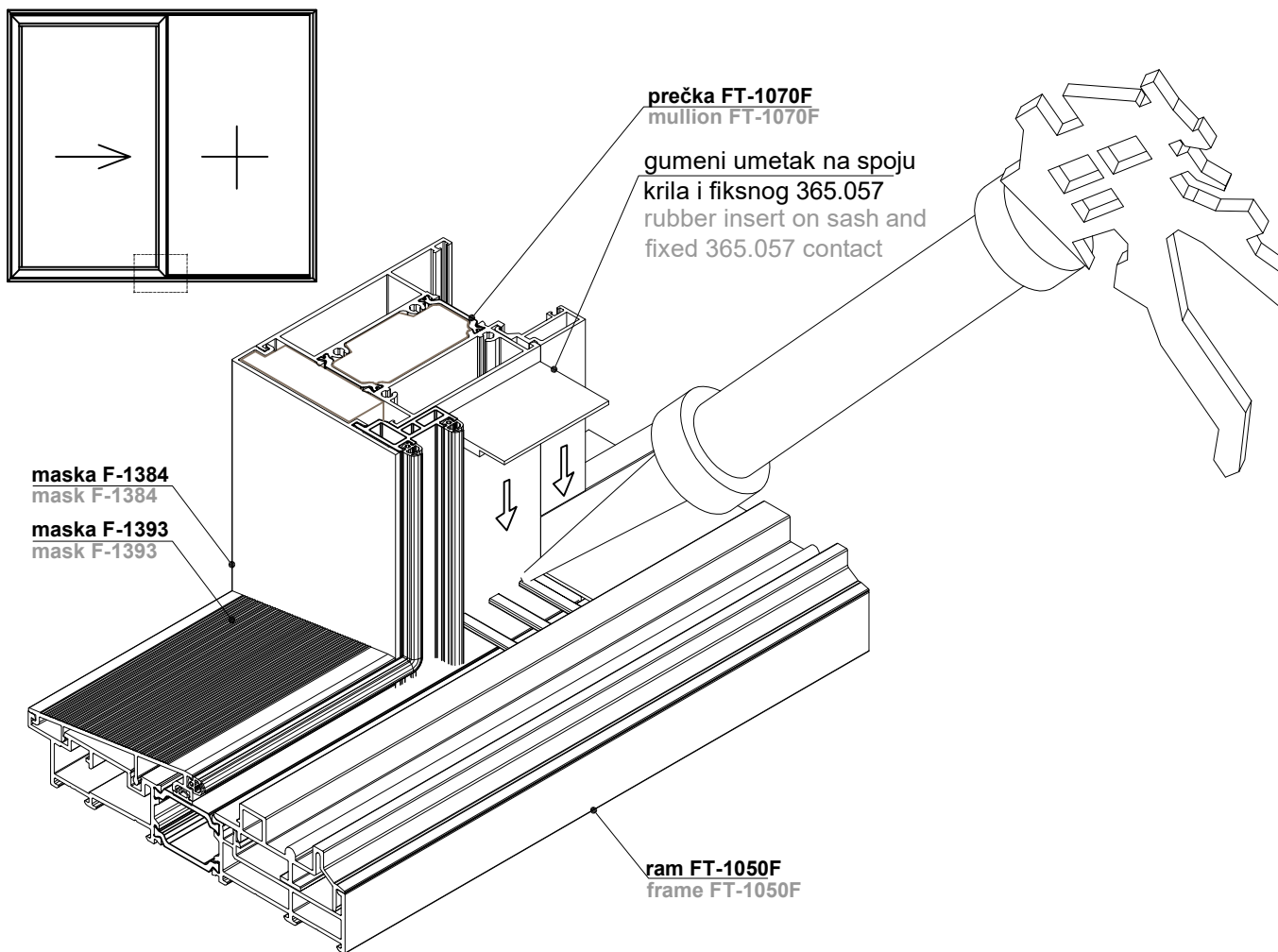
vijak 3.9x19 DIN 7981
za pričvršćivanje maske
F-1391 za ram
screw DIN 7981
for fixing mask F-1391
to frame

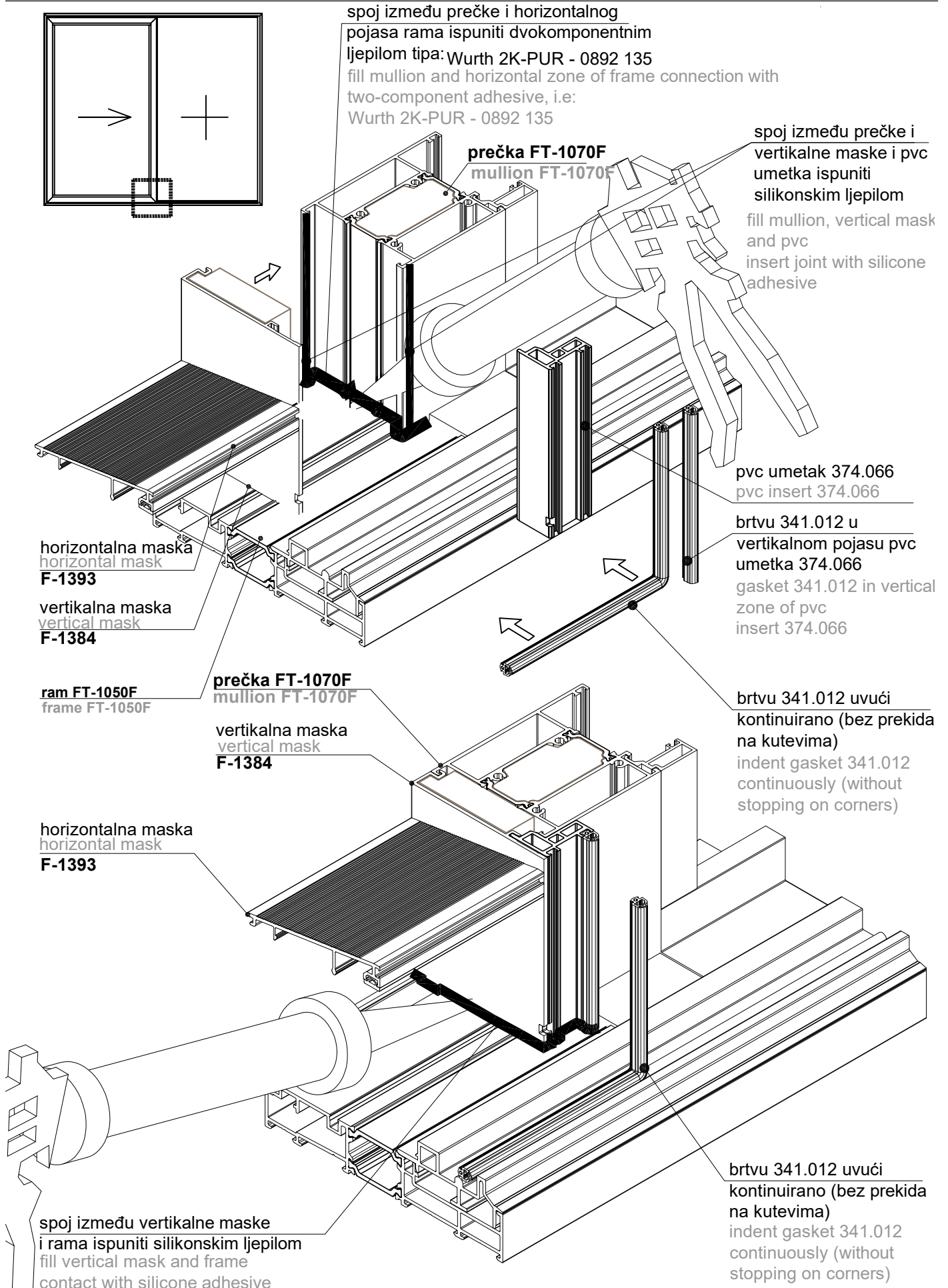
gumeni odbojnik
rubber bumper

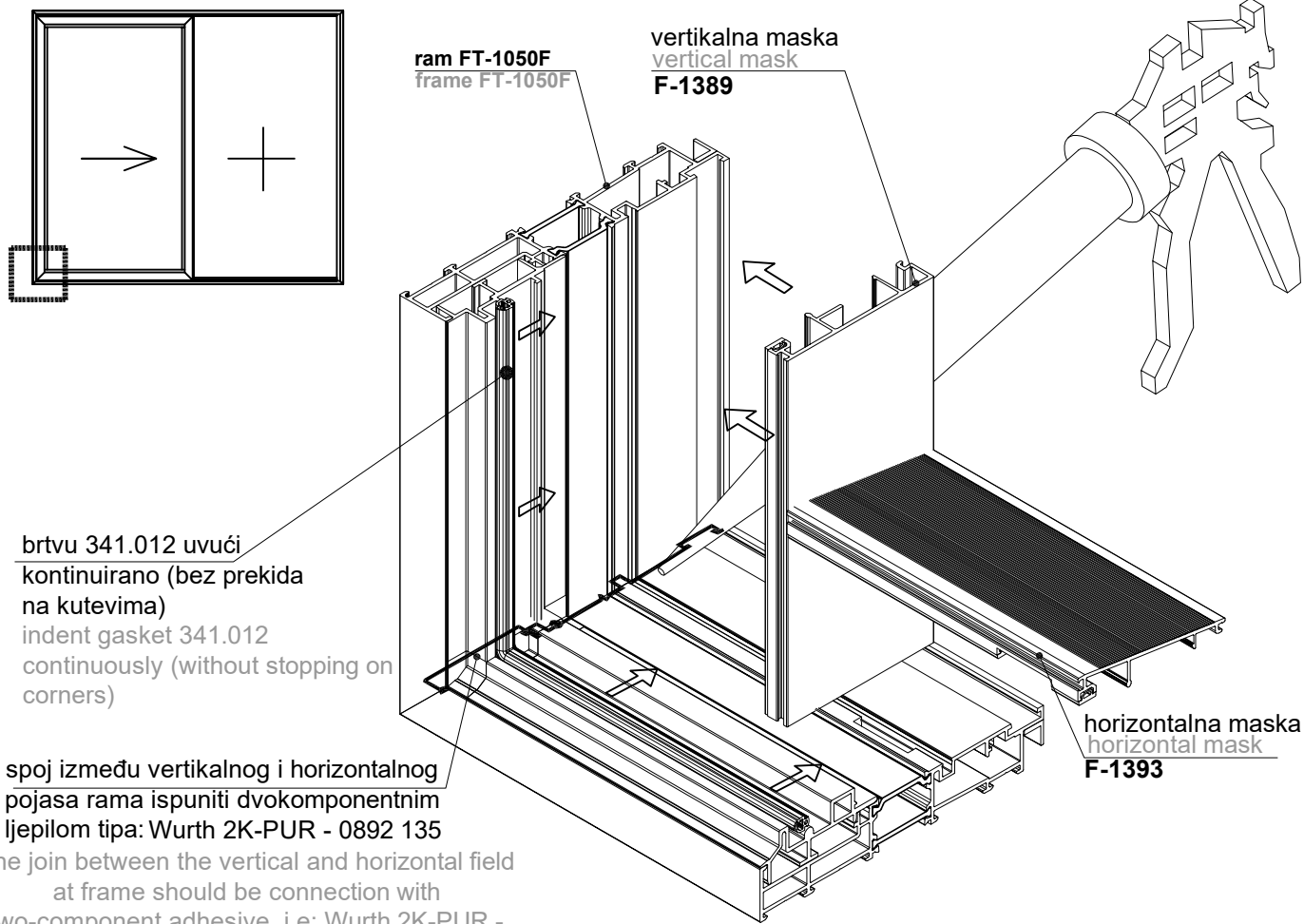






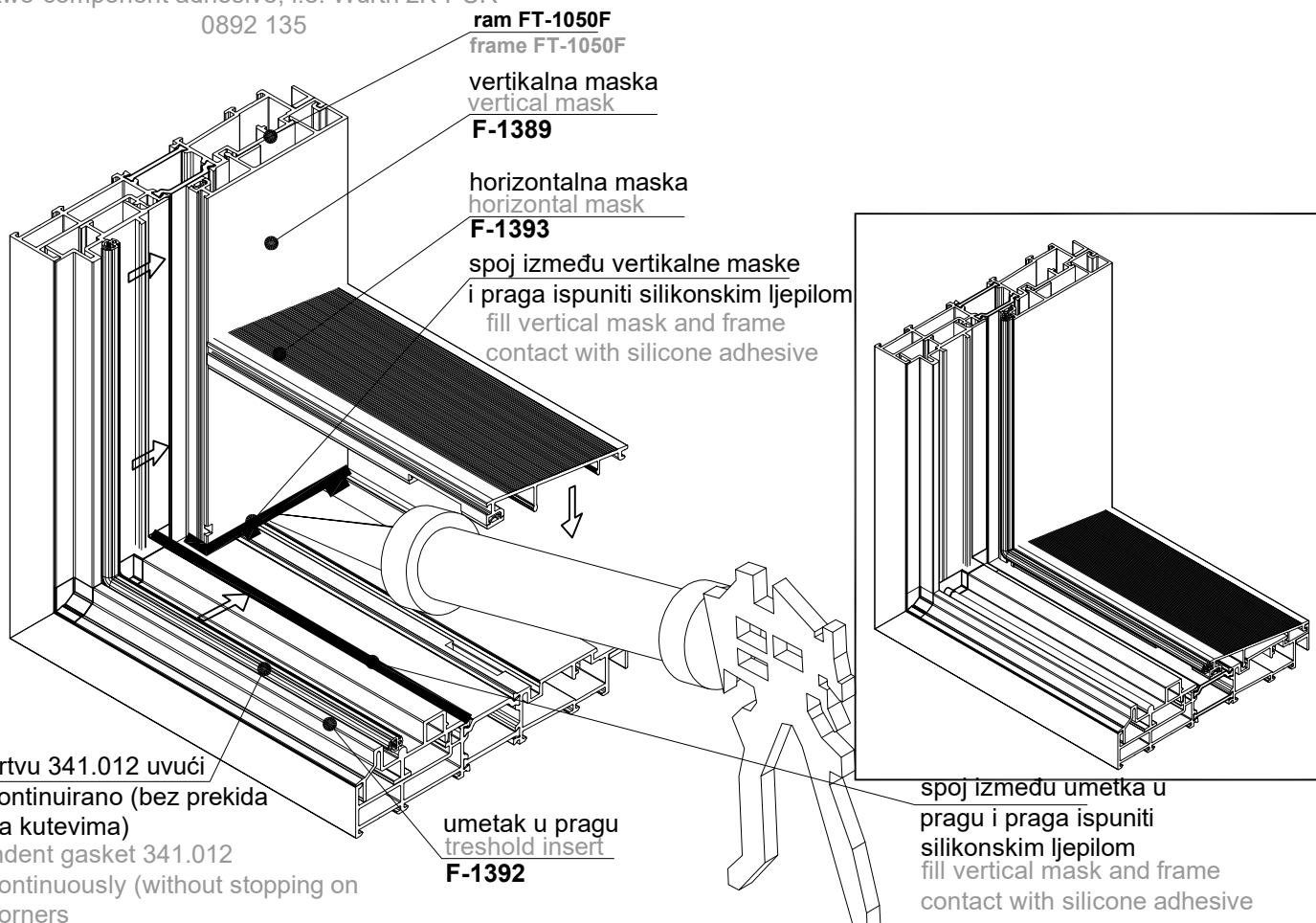






brtvu 341.012 uvući
kontinuirano (bez prekida
na kutevima)
indent gasket 341.012
continuously (without stopping on
corners)

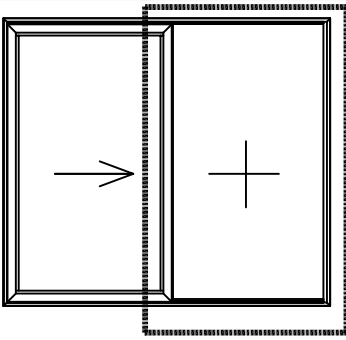
spoj između vertikalnog i horizontalnog
pojasa rama ispuniti dvokomponentnim
ljepilom tipa: Wurth 2K-PUR - 0892 135
the join between the vertical and horizontal field
at frame should be connection with
two-component adhesive, i.e: Wurth 2K-PUR -
0892 135



brtvu 341.012 uvući
kontinuirano (bez prekida
na kutevima)
indent gasket 341.012
continuously (without stopping on
corners)

umetak u pragu
threshold insert
F-1392

spoj između umetka u
pragu i praga ispuniti
silikonskim ljepilom
fill vertical mask and frame
contact with silicone adhesive

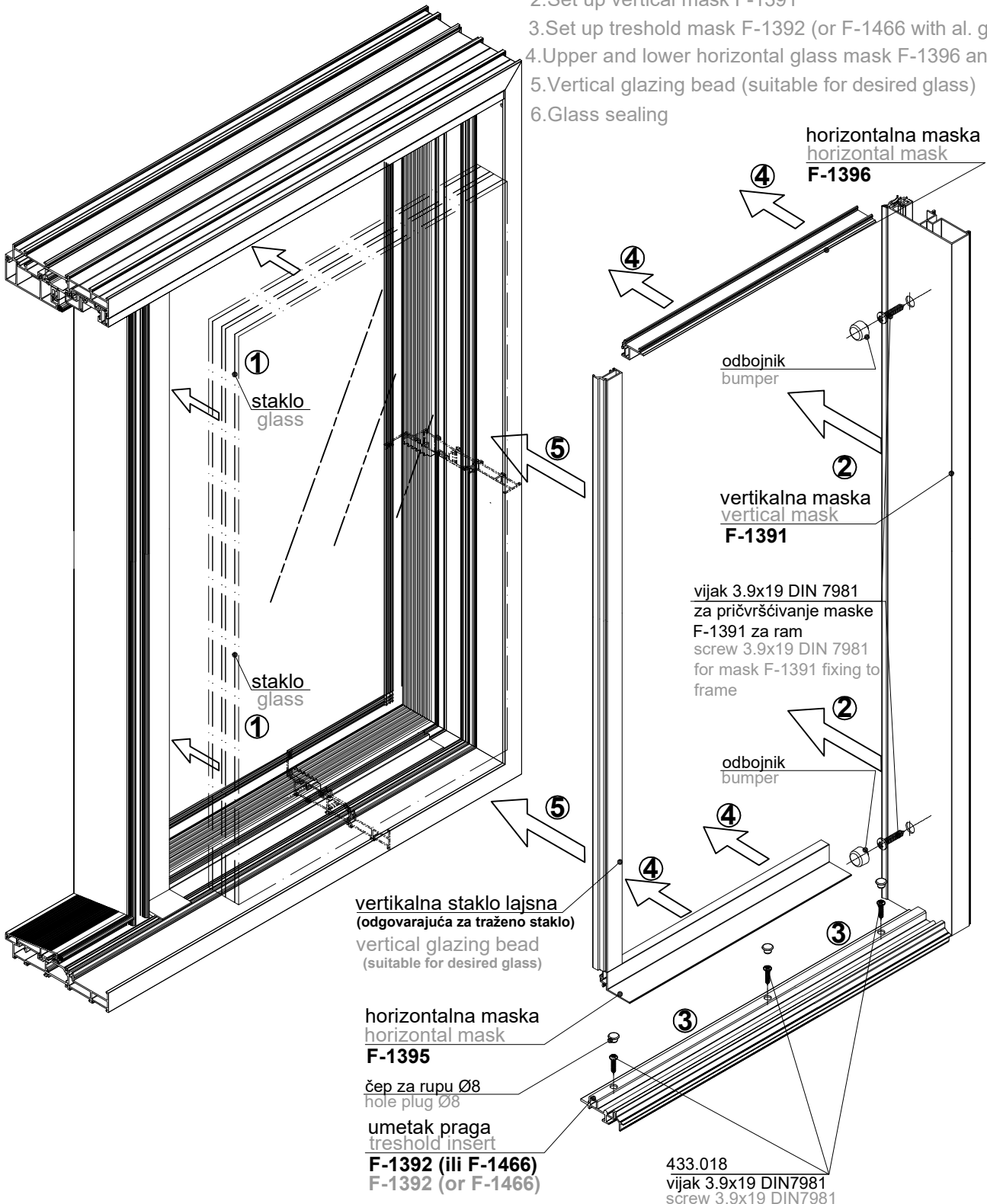


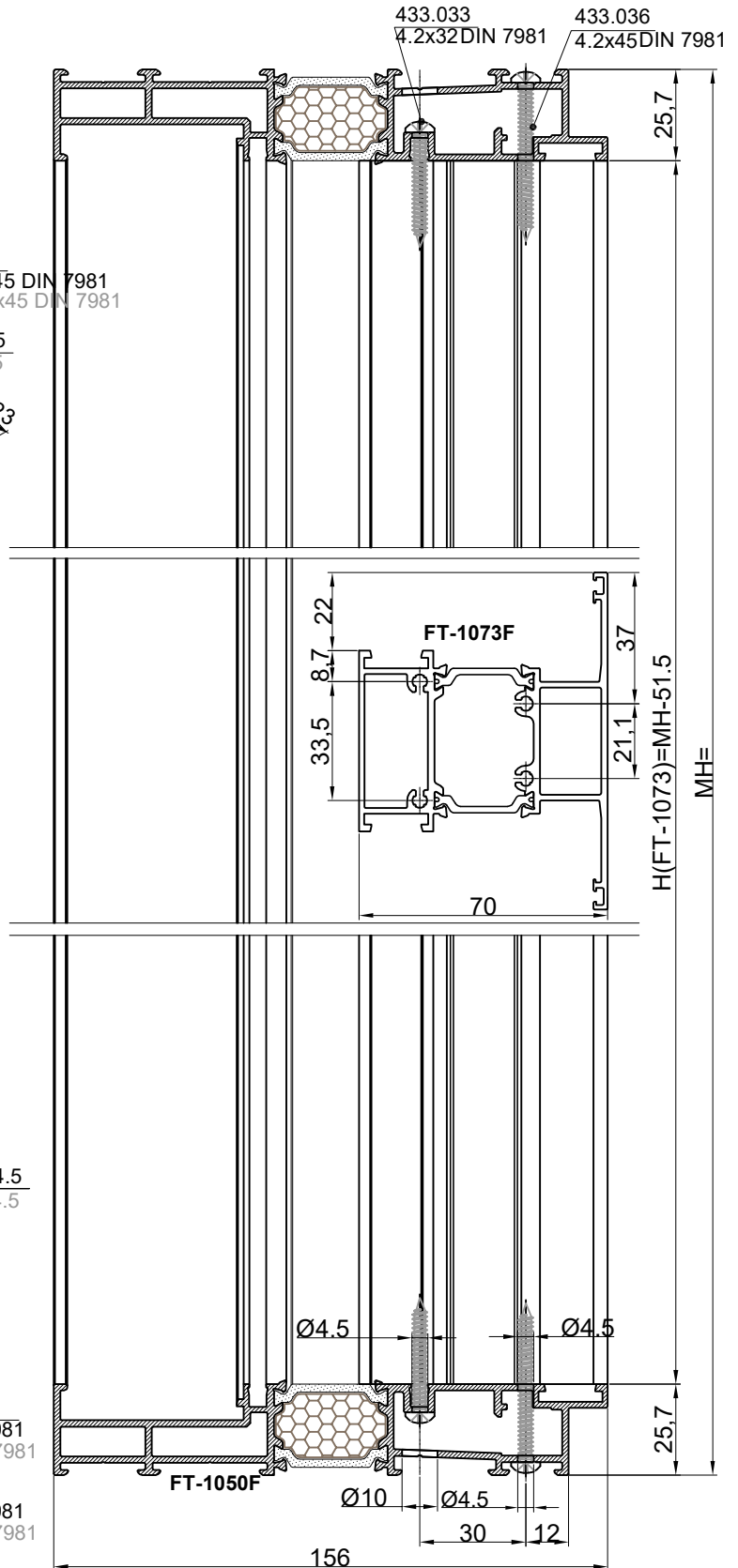
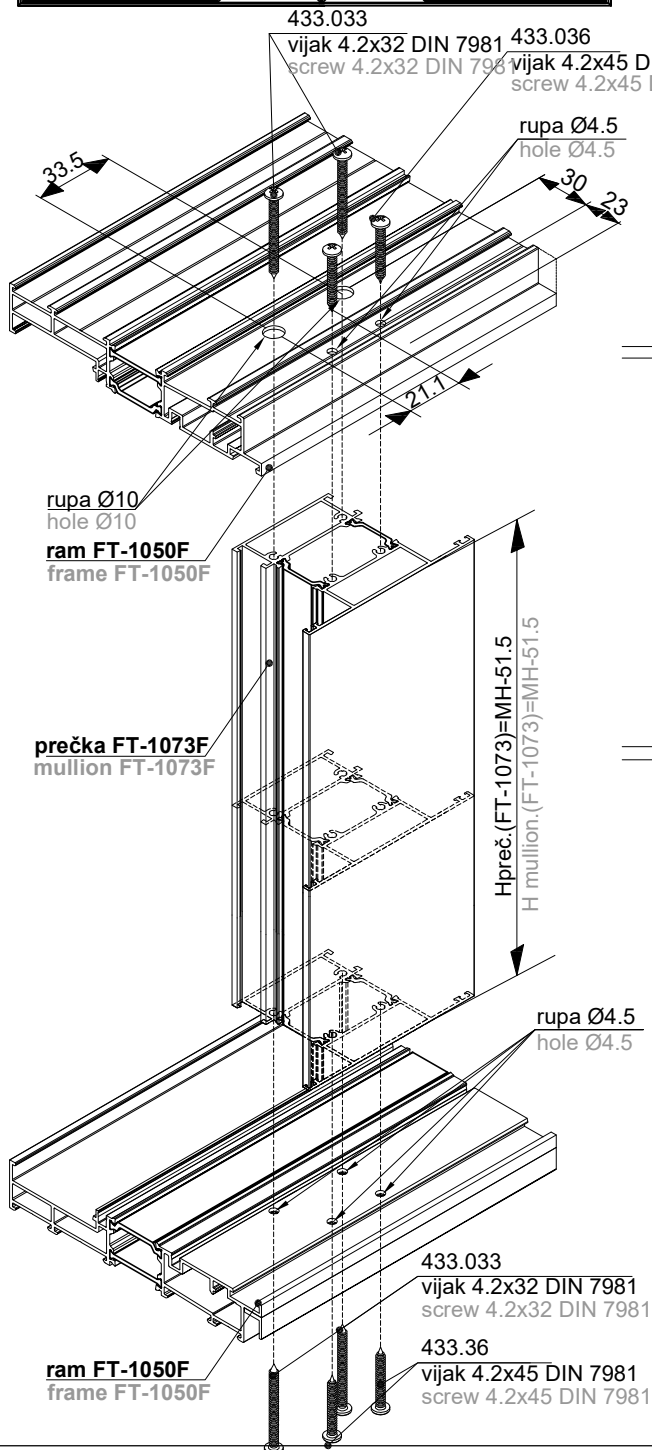
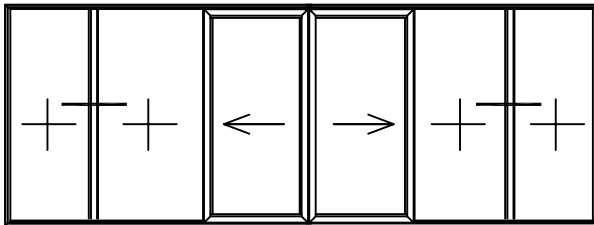
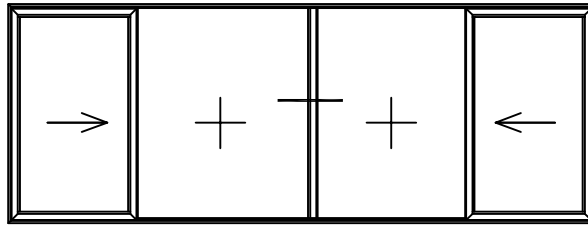
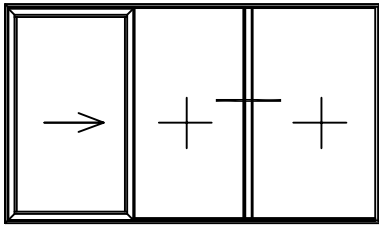
Redoslijed postavljanja profila pri stakljenju fiksnog dijela:

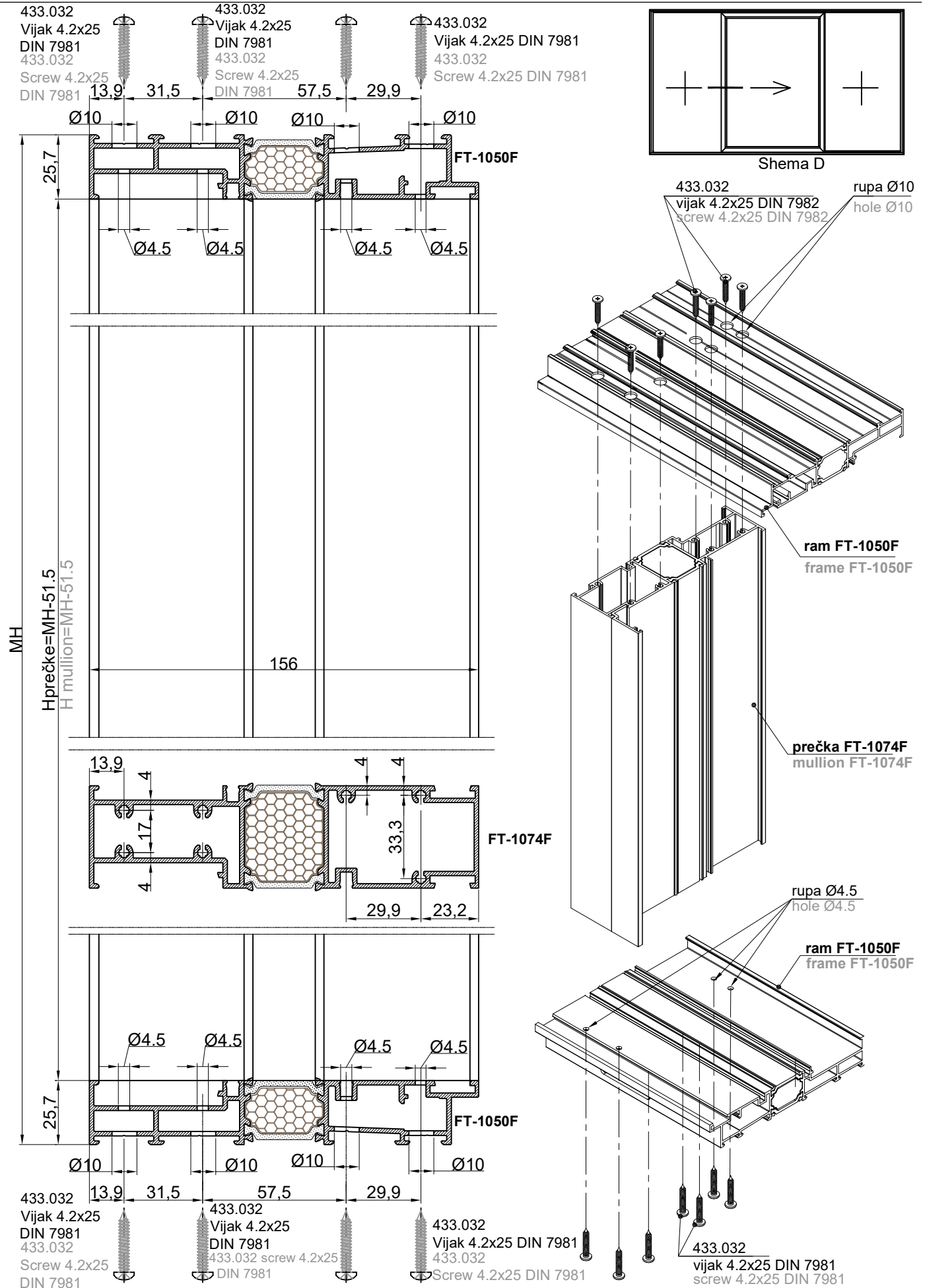
1. Postaviti staklo u fiksni dio
2. Postaviti vertikalnu masku F-1391
3. Postaviti masku praga F-1392 (ili F-1466 sa al. vodicicom)
4. Gornja i donja horizontalna staklo maska F-1396 i F-1395
5. Vertikalna staklo lajsna (odgovarajuća za traženo staklo)
6. Brtvljenje stakla

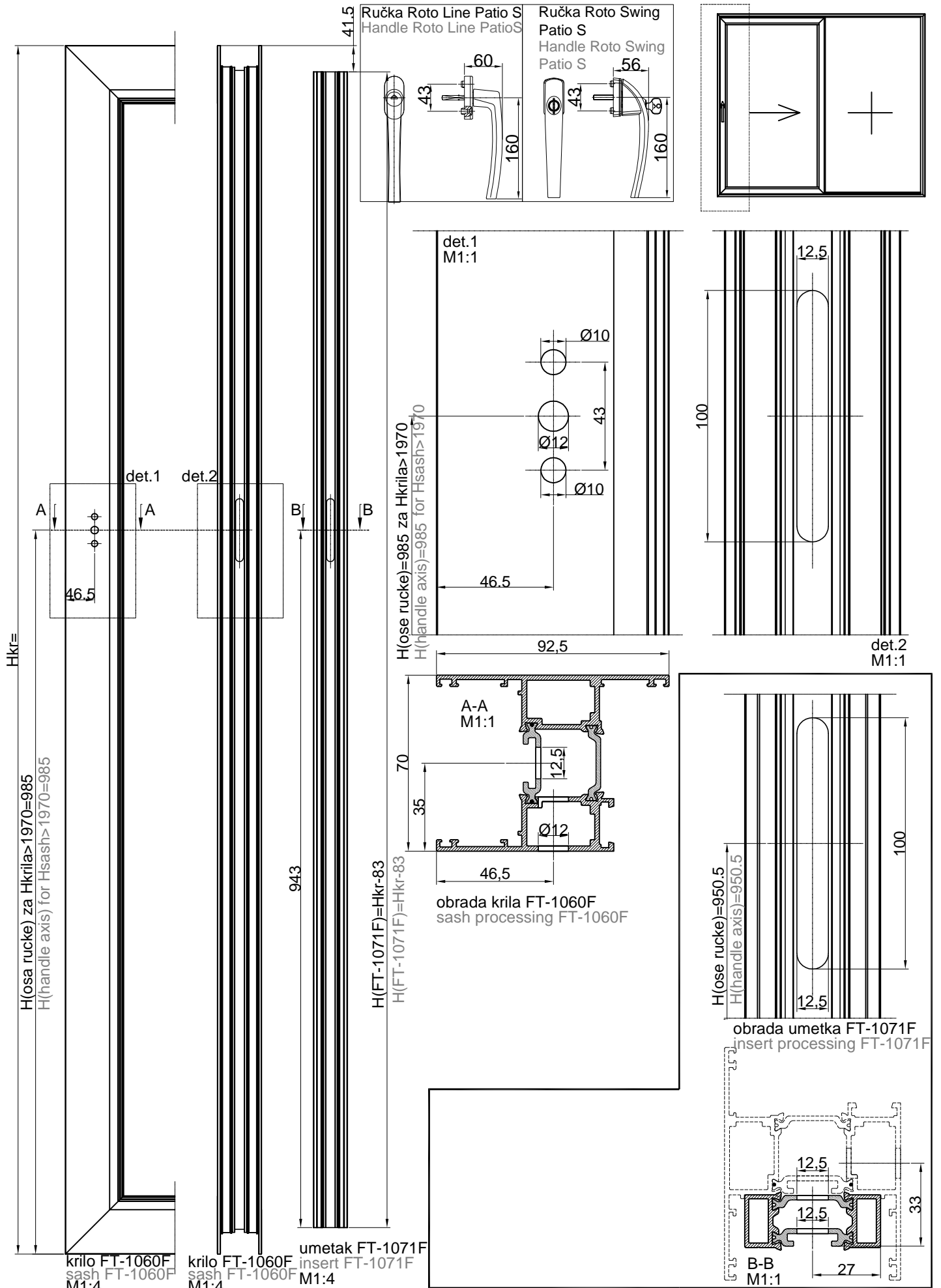
Profile installation order when glazing fixed part:

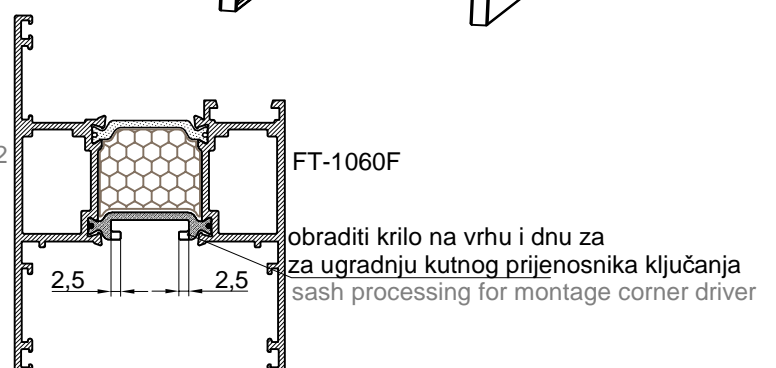
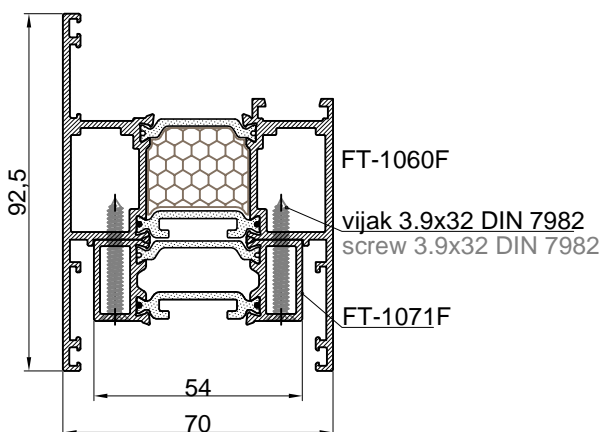
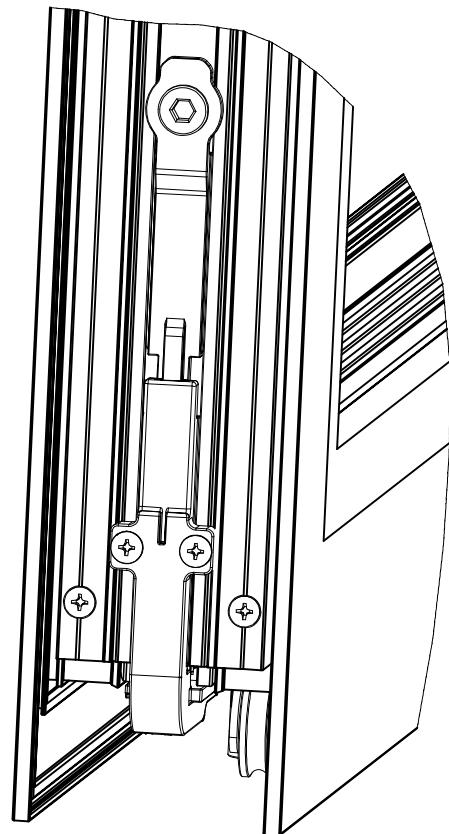
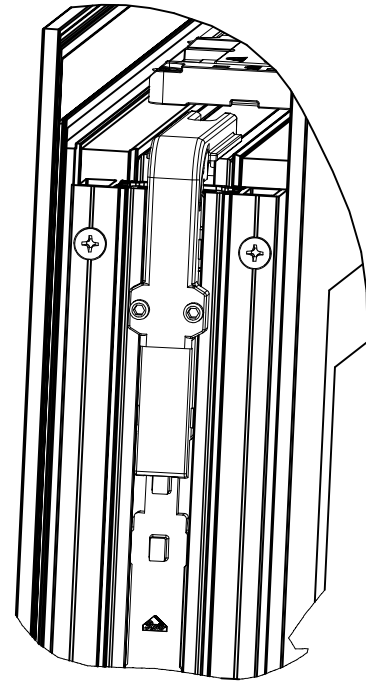
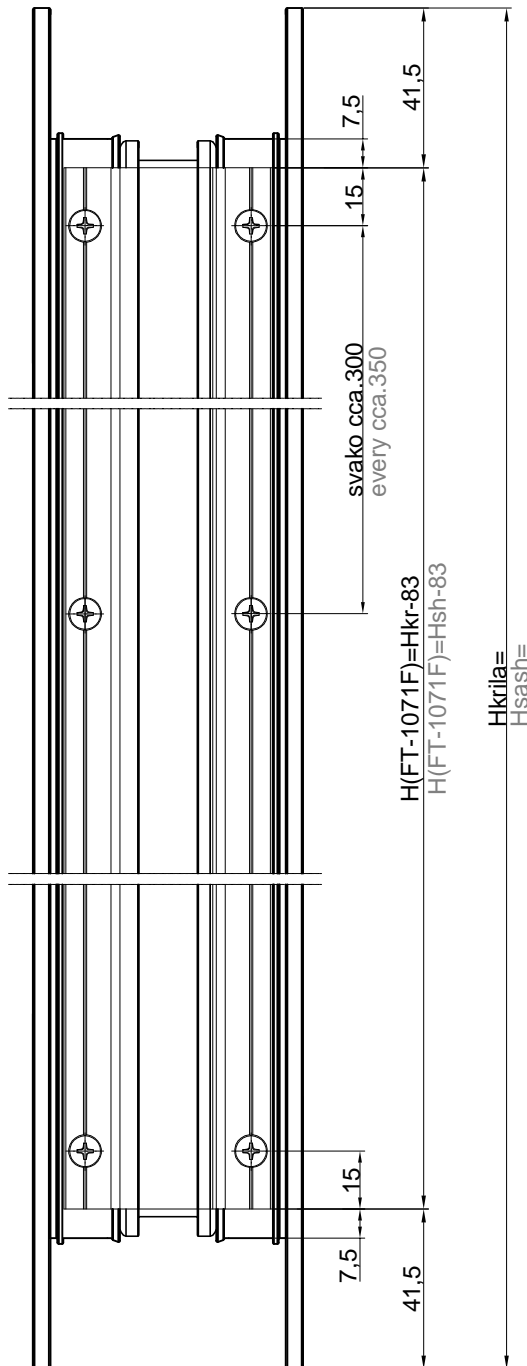
1. Set up glass in fixed part
2. Set up vertical mask F-1391
3. Set up treshold mask F-1392 (or F-1466 with al. guide)
4. Upper and lower horizontal glass mask F-1396 and F-1395
5. Vertical glazing bead (suitable for desired glass)
6. Glass sealing

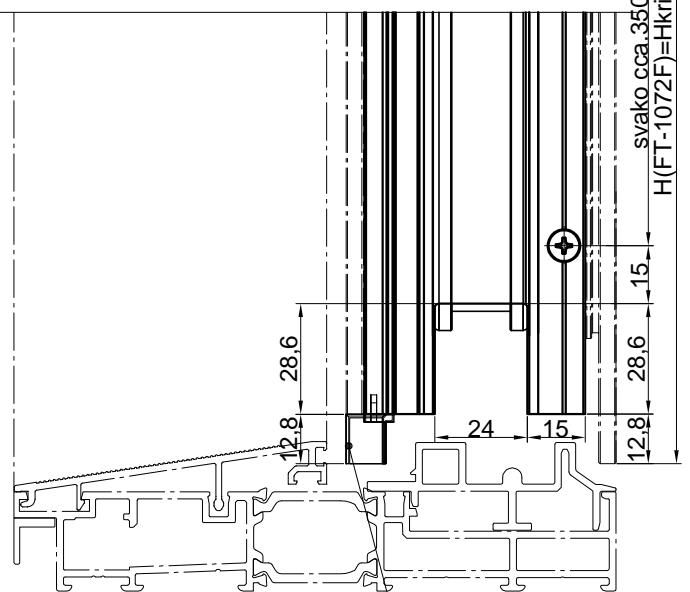
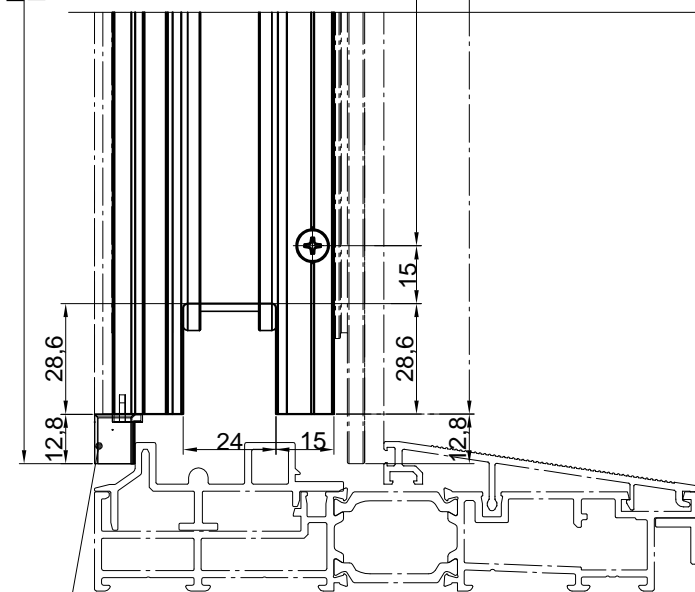
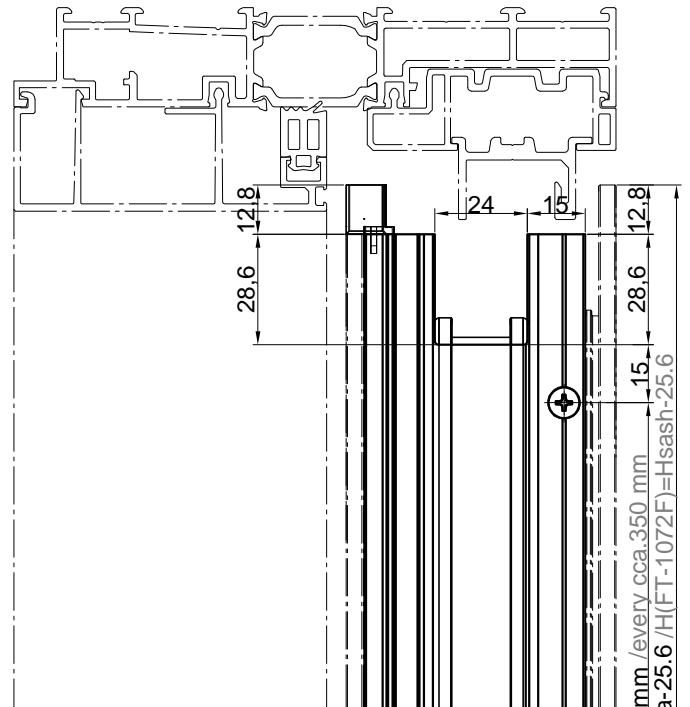
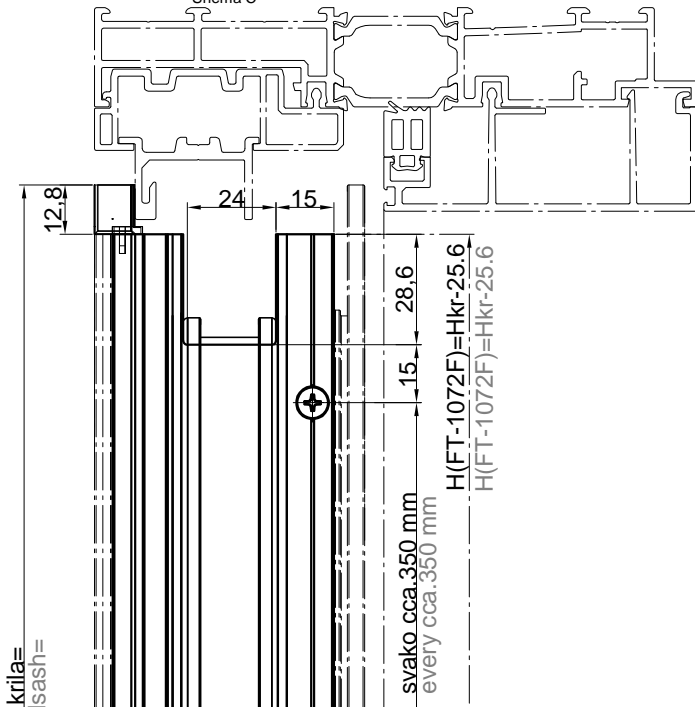
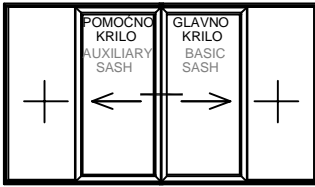






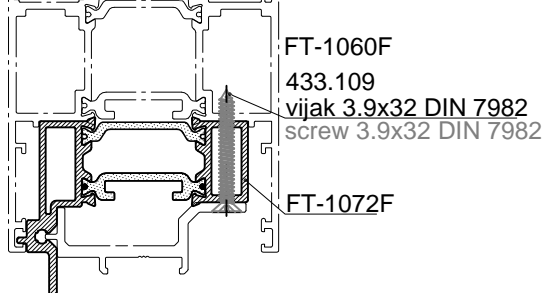






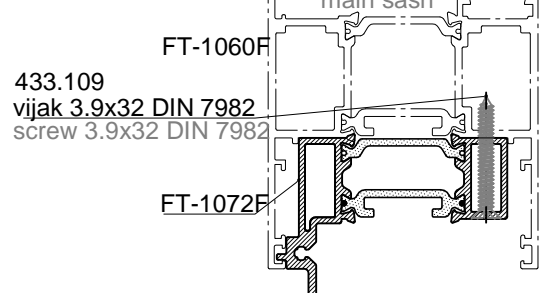
pvc čep na spoju dva
kriila 363.048
pvc plug at the joint of two
sash 363.048

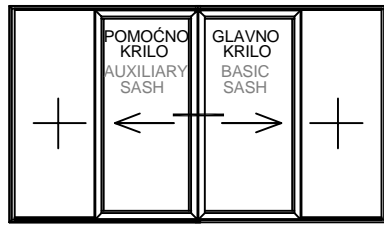
pomoćno krilo
auxiliary sash



pvc čep na spoju dva
kriila 363.048
pvc plug at the joint of two
sash 363.048

glavno krilo
main sash





vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982

krilo FT-1060F
sash FT-1060F

pvc čep na spoju dva krila 363.048
pvc plug at the joint of two sash 363.048

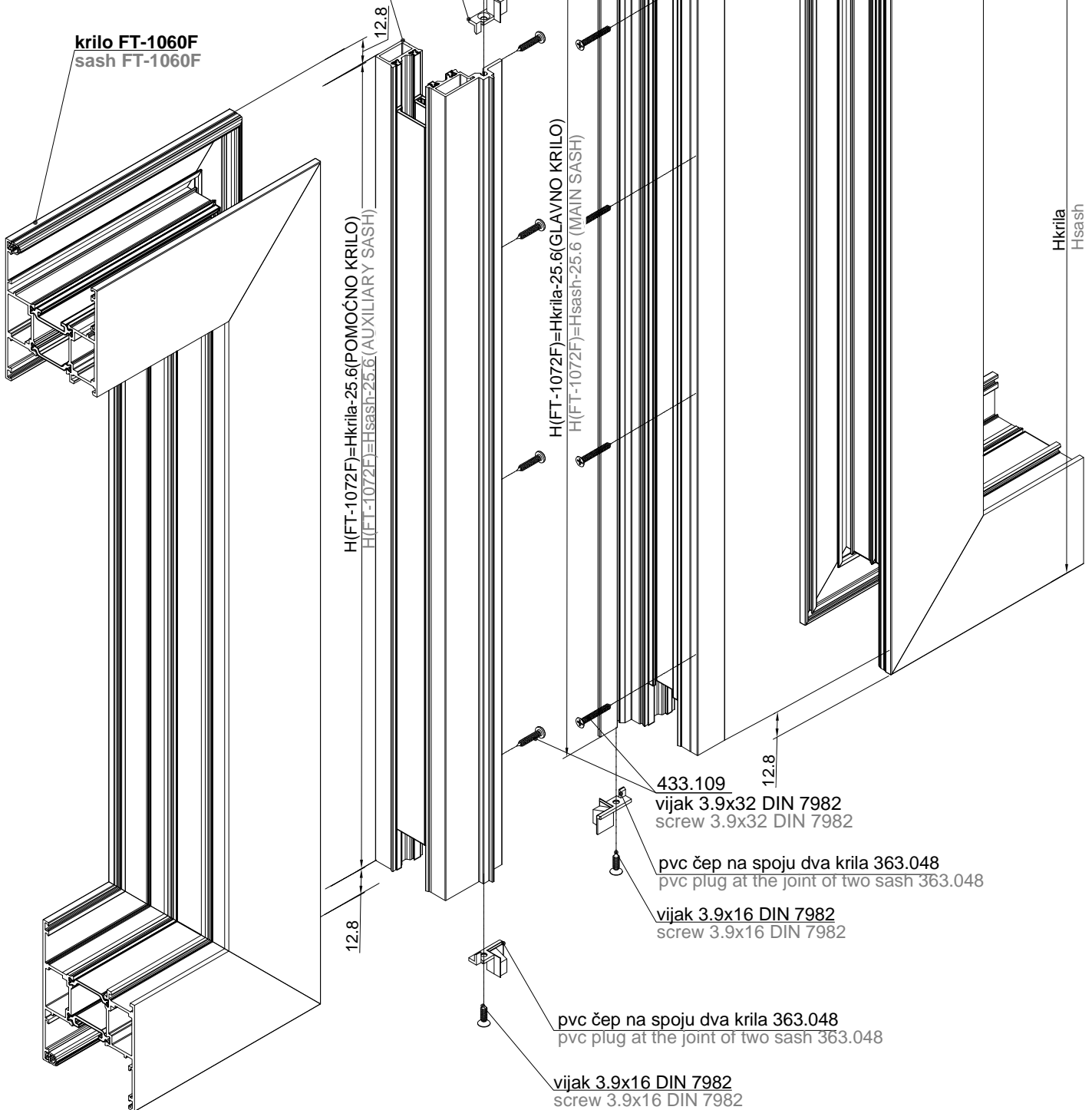
umetak FT-1072F
insert FT-1072F

vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982

pvc čep na spoju dva
krila 363.048
pvc plug at the joint of two
sash 363.048

umetak FT-1072F
insert FT-1072F

krilo FT-1060F
sash FT-1060F



$H(\text{FT-1072F}) = H_{\text{krila}} - 25.6$ (POMOĆNO KRILO)
 $H(\text{FT-1072F}) = H_{\text{sash}} - 25.6$ (AUXILIARY SASH)

$H(\text{FT-1072F}) = H_{\text{krila}} - 25.6$ (GLAVNO KRILO)
 $H(\text{FT-1072F}) = H_{\text{sash}} - 25.6$ (MAIN SASH)

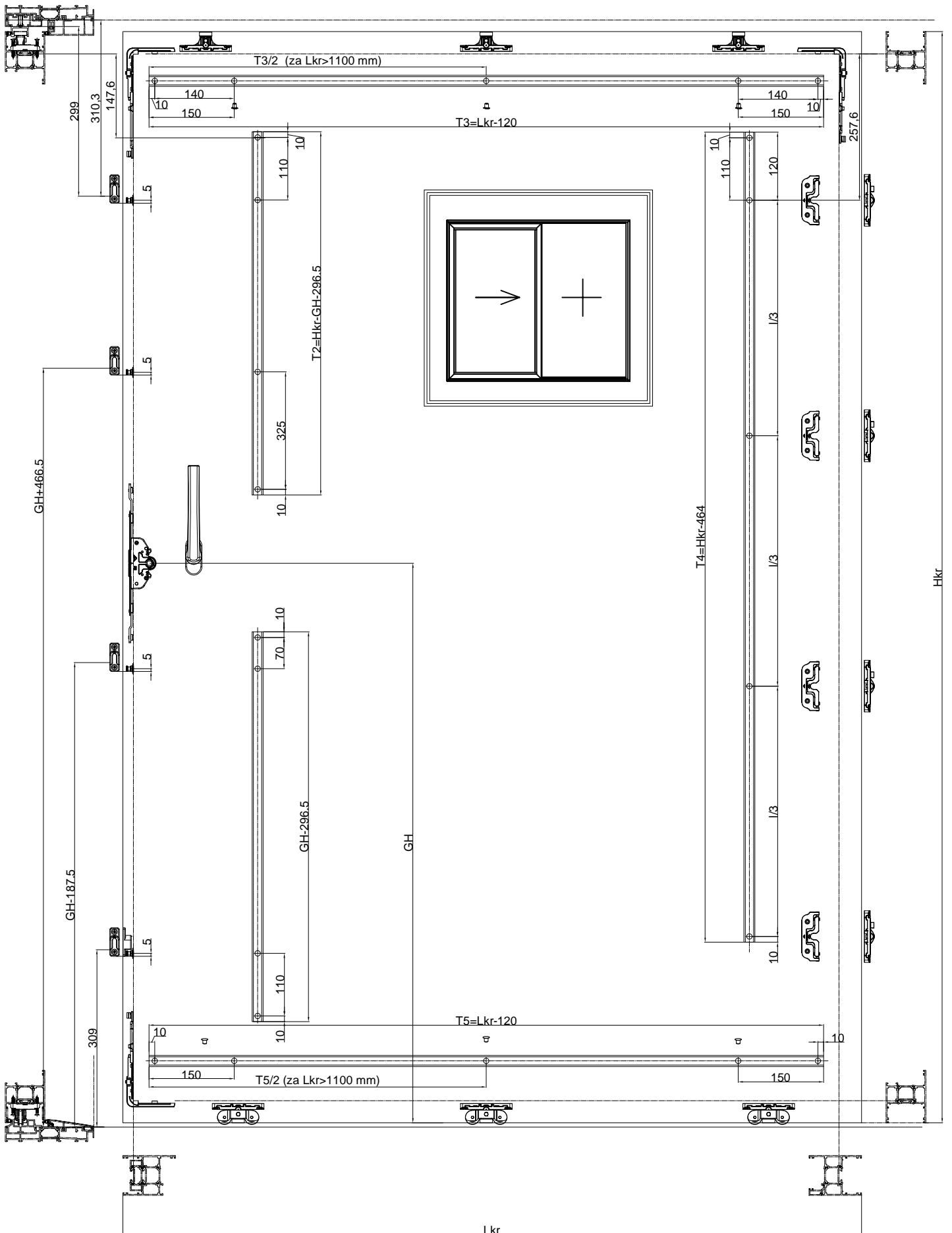
433.109
vijak 3.9x32 DIN 7982
screw 3.9x32 DIN 7982

pvc čep na spoju dva krila 363.048
pvc plug at the joint of two sash 363.048

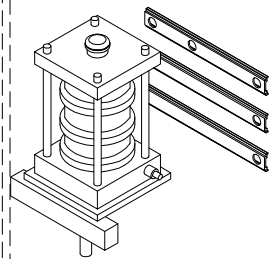
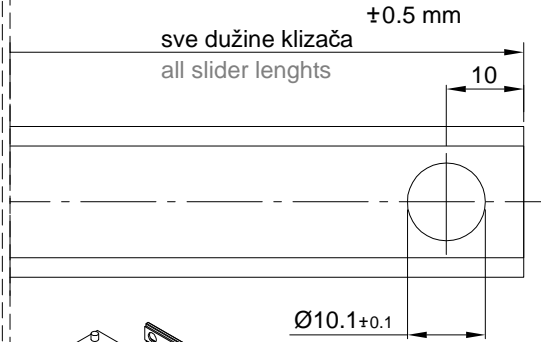
vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982

pvc čep na spoju dva krila 363.048
pvc plug at the joint of two sash 363.048

vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982

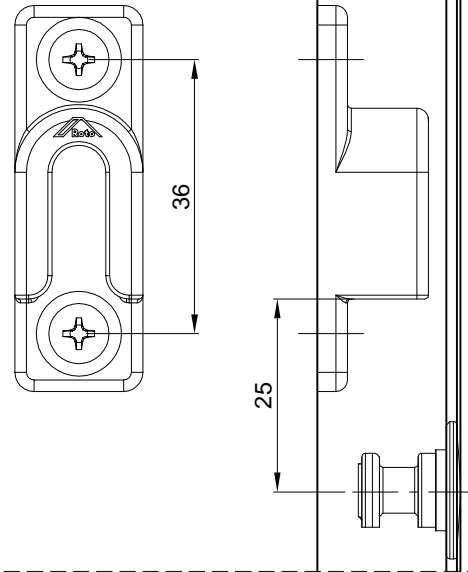


obrada klizača za prijenos ključanja
processing slider used for locking transmission

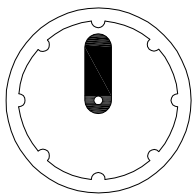


NAPOMENA:
Klizač obavezno sijeći i
obrađivati na štanci
REMARK:
The slider must be cut and
processed on a punching
machine

pozicioniranje ključanja
locking positioning

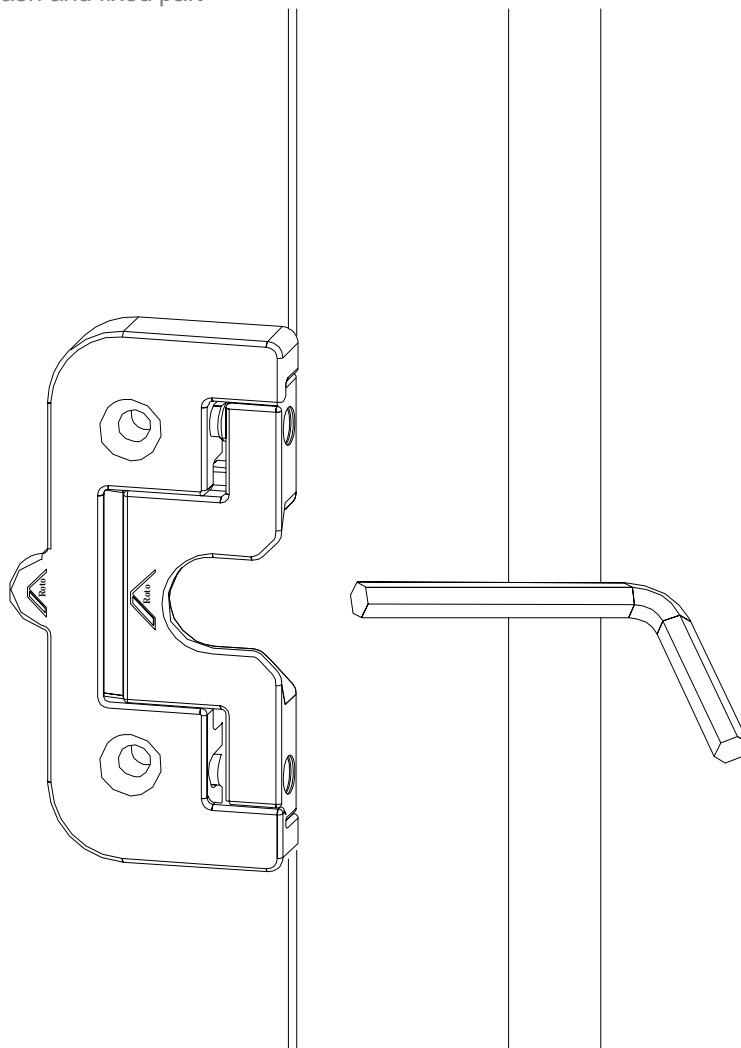
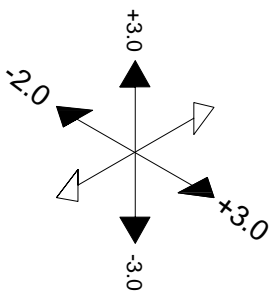


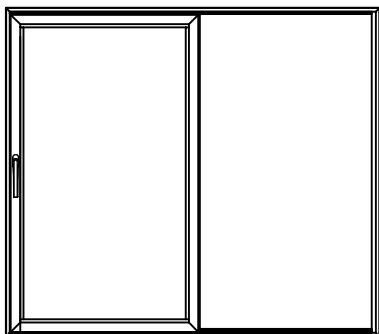
podešavanje ključanja na spoju krila i fiksnog
locking adjustment at the joint of sash and fixed part



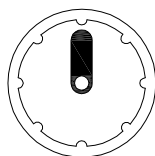
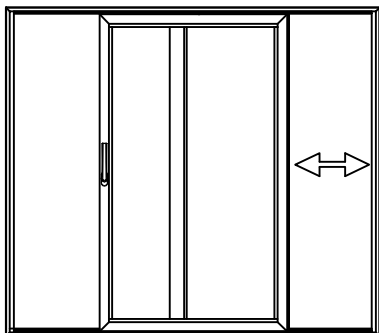
položaj ručke-otvoreno
handle position-open

mogućnost podešavanja
possibility of adjustment

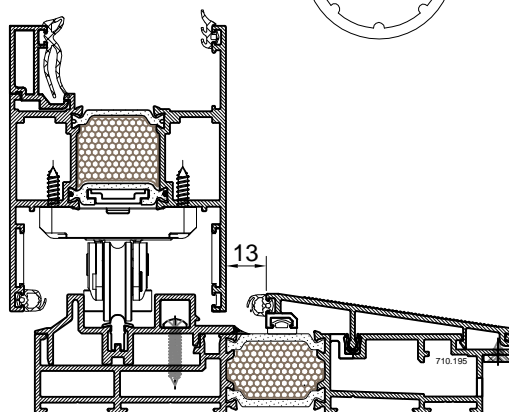
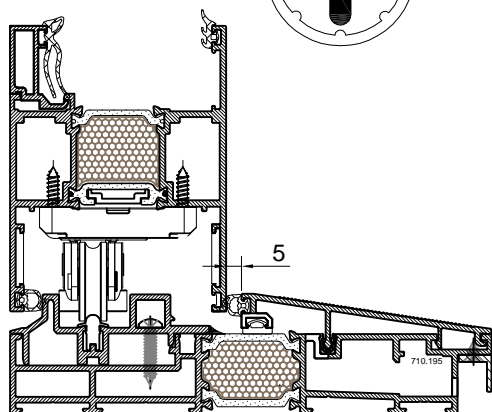
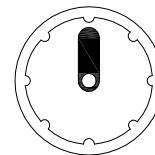
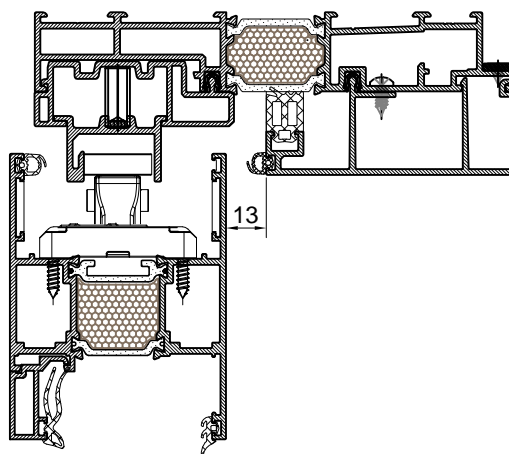
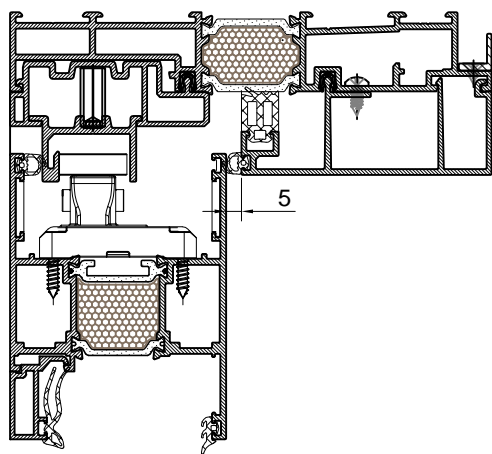




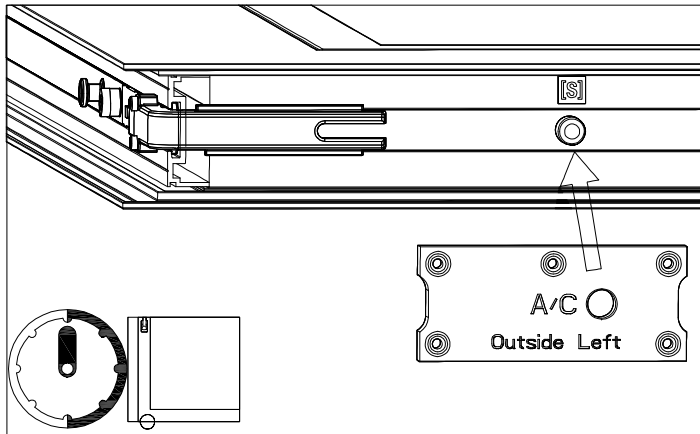
položaj ručke kad je krilo zatvoreno
handle position when the sash is closed



položaj ručke kad krilo kliza
handle position when sash slides

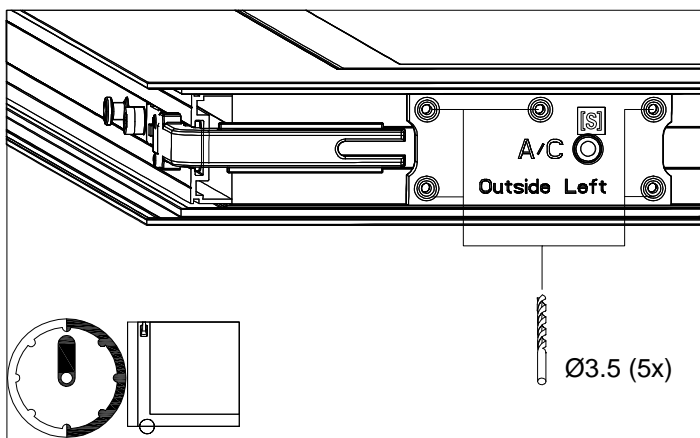


Šablon za ugradnju kotačića i usmjerivača na krilo Bogies and thrusting device installation to sash pattern

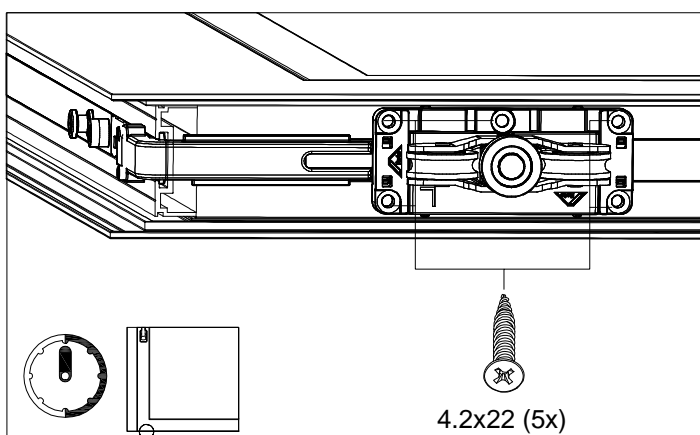
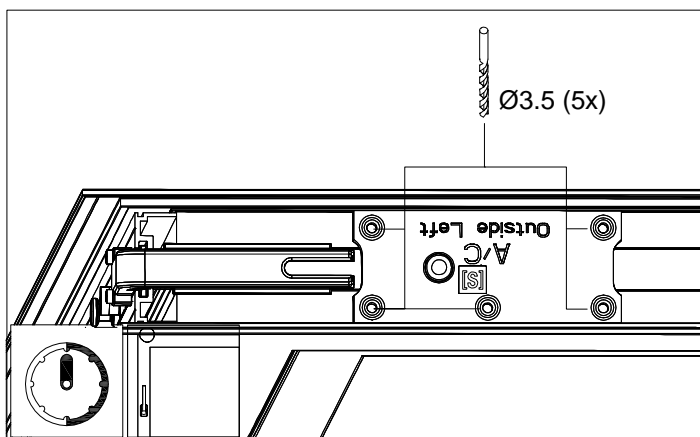


položaj ručke
handle position

1. Pozicioniranje šablona
1. Setting drilling template



2. Bušenje 5 rupa Ø3.5
2. Drilling 5 holes Ø3.5

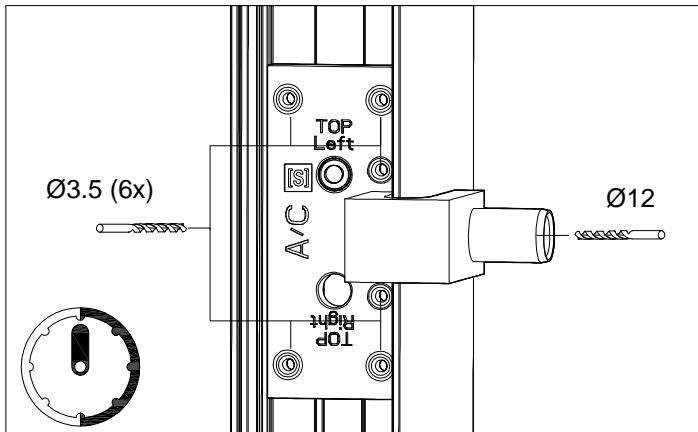


3. Postavljanje kotačića
3. Bogies installation

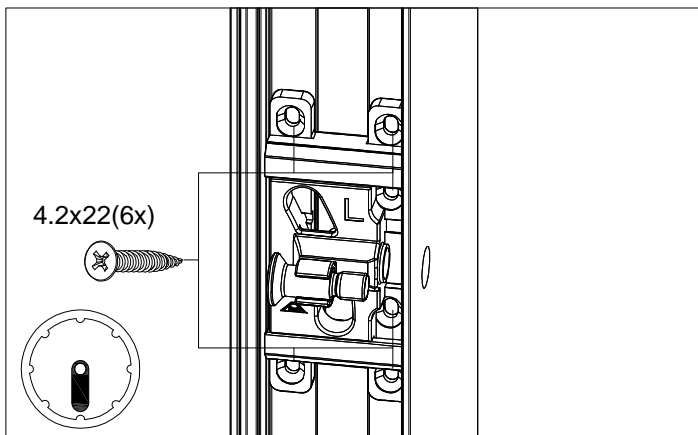
Šablon za srednjeg ključanja na spoju krila i
prečke-ugradnja na krilo
Central locking pattern on sash and mullion
connection-installation on sash



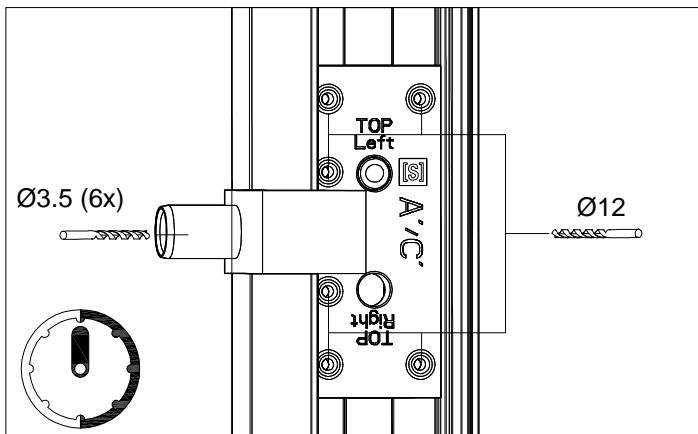
položaj ručke
handle position



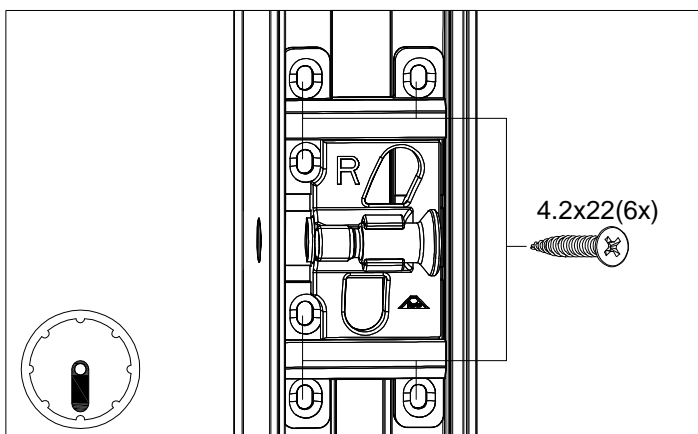
1. Pozicioniranje šablona (Lijeva vrata)
bušenje 6 rupa Ø3.5 mm
1. Setting drilling template (Left door)
drilling 6 holes Ø3.5 mm



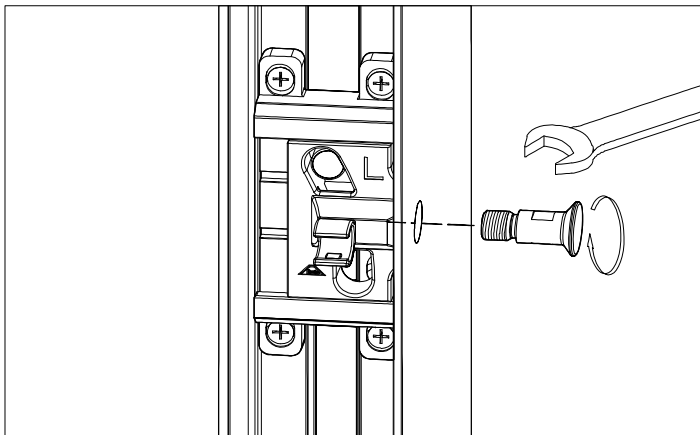
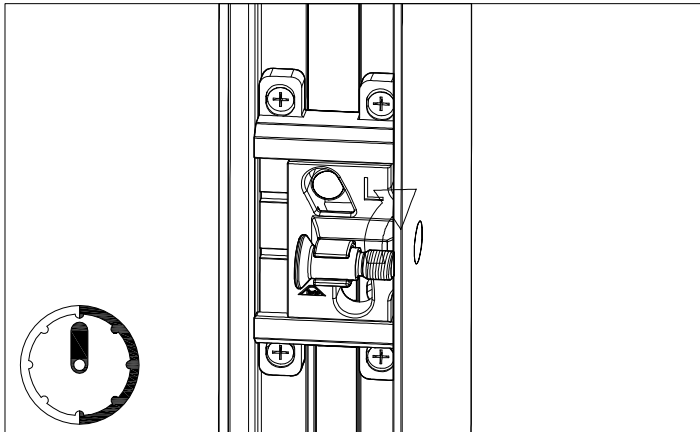
2. Postavljanje ključanja (Lijeva vrata)
2. Locking setup (Left door)



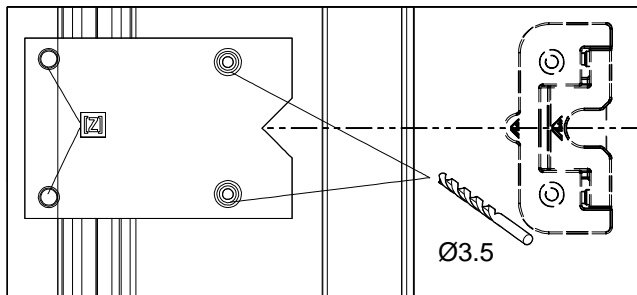
1. Pozicioniranje šablona (Desna vrata)
bušenje 6 rupa Ø3.5 mm
1. Setting drilling template (Right door)
drilling 6 holes Ø3.5 mm



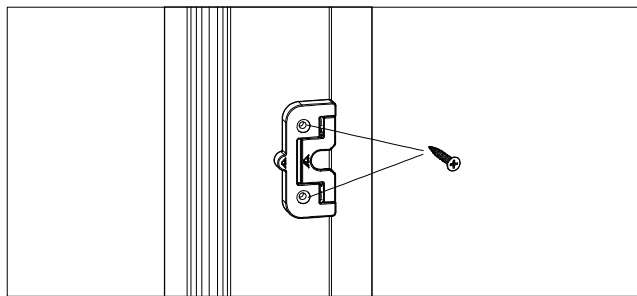
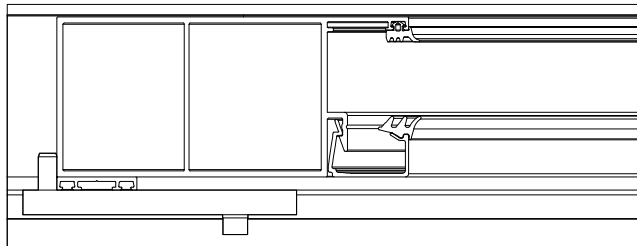
2. Postavljanje ključanja (Desna vrata)
2. Locking setup (Right door)

Ugradnja bravice za srednje ključanje
Espagnolette installation for central locking

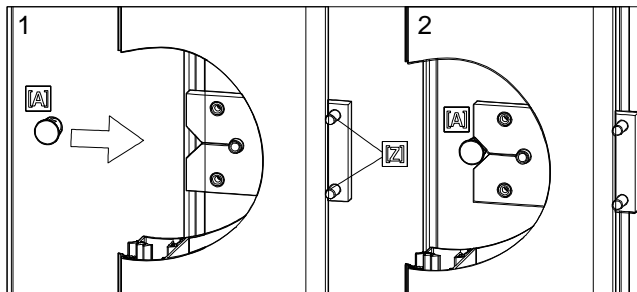
Šablon za srednje ključanje na spoju krila i prečke-ugradnja na prečku
Drilling template for central locking on the join sash and mullion-installation on mullion



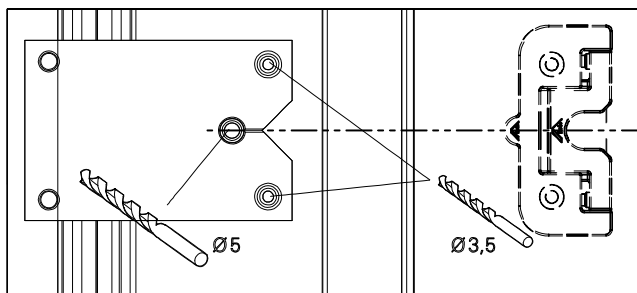
1. Pozicioniranje šablona
bušenje 2 rupa Ø3.5 mm
1. Setting drilling template
drilling 2 holes Ø3.5 mm



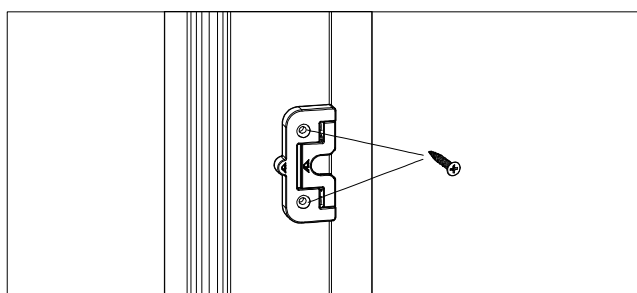
2. Ugradnja ključanja na prečku
2. Locking installation on mullion



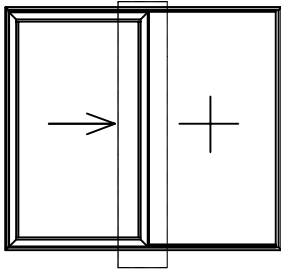
1. Pozicioniranje šablona
bušenje 2 rupa Ø3.5 mm
1. Setting drilling template
drilling 2 holes Ø3.5 mm



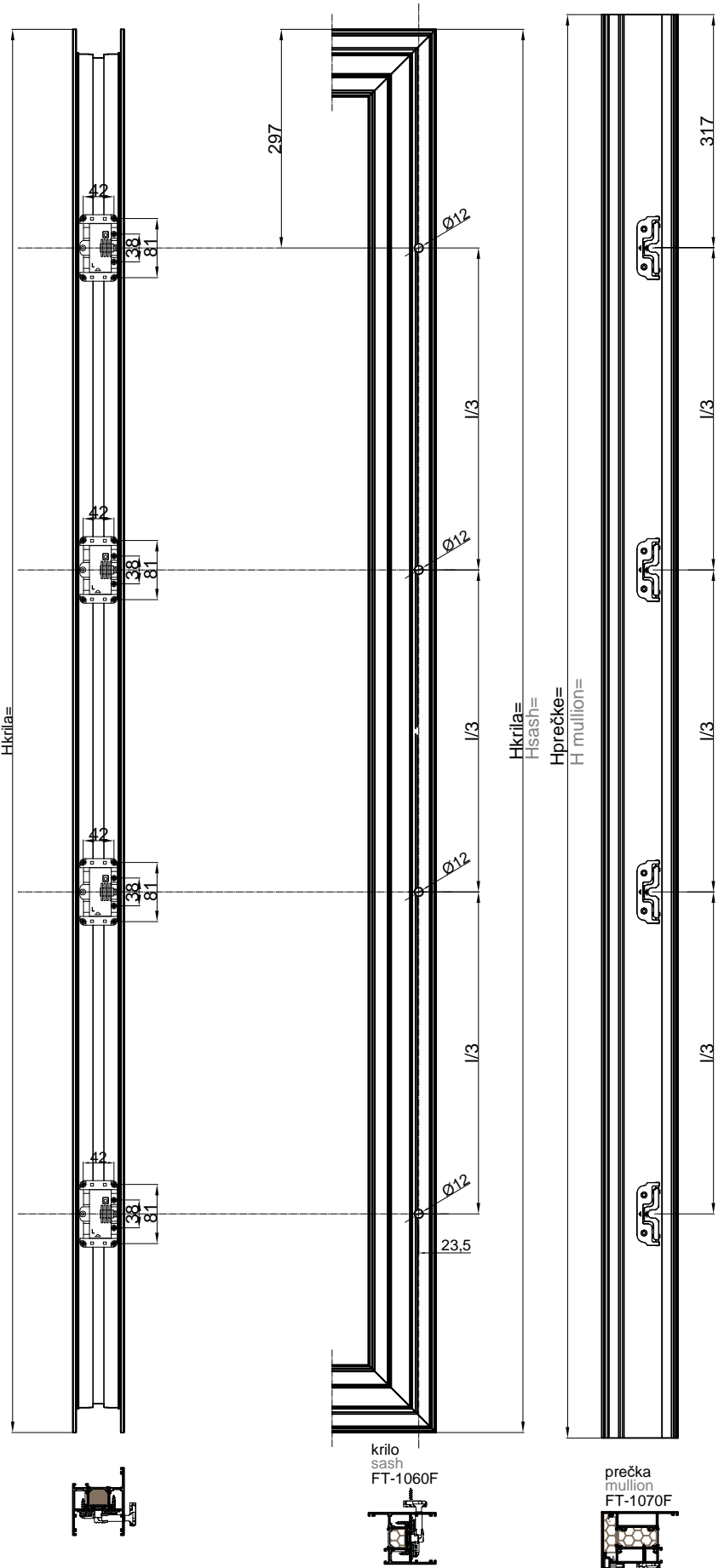
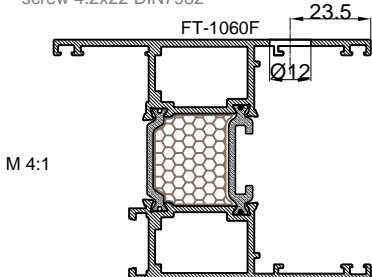
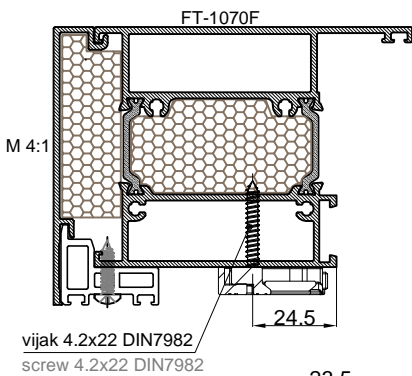
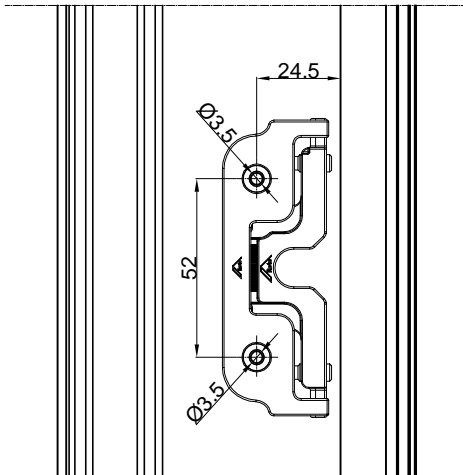
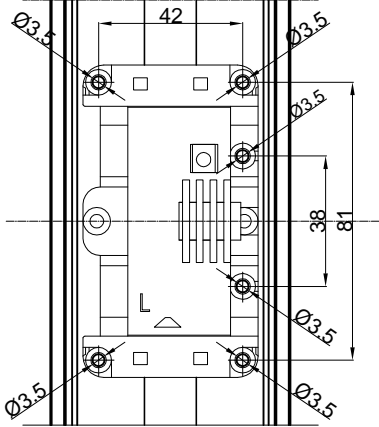
2. Bušenje 2 rupe Ø3.5 mm
2. Drilling 2 holes Ø3.5 mm

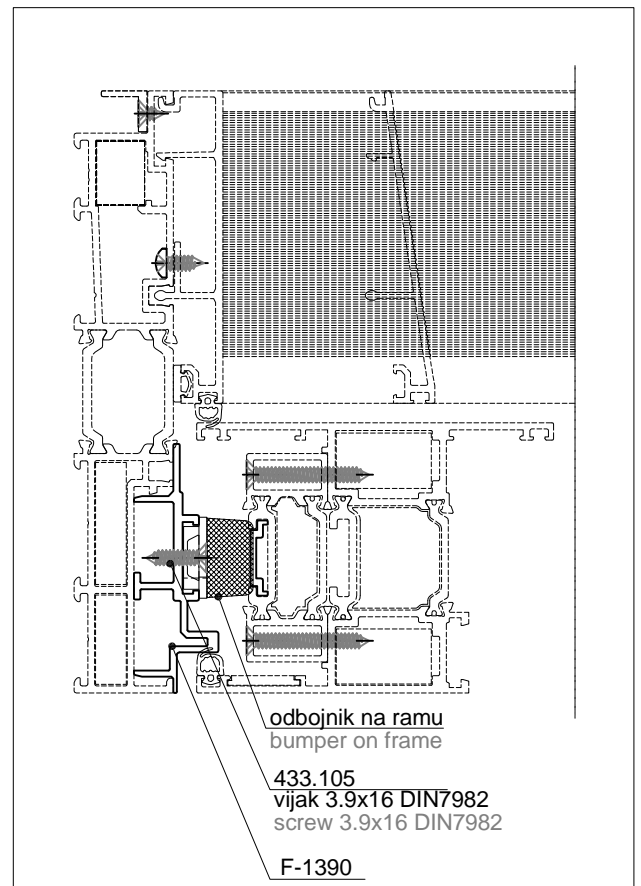
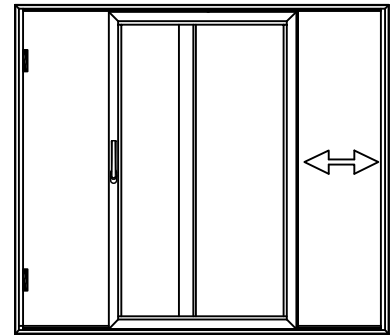
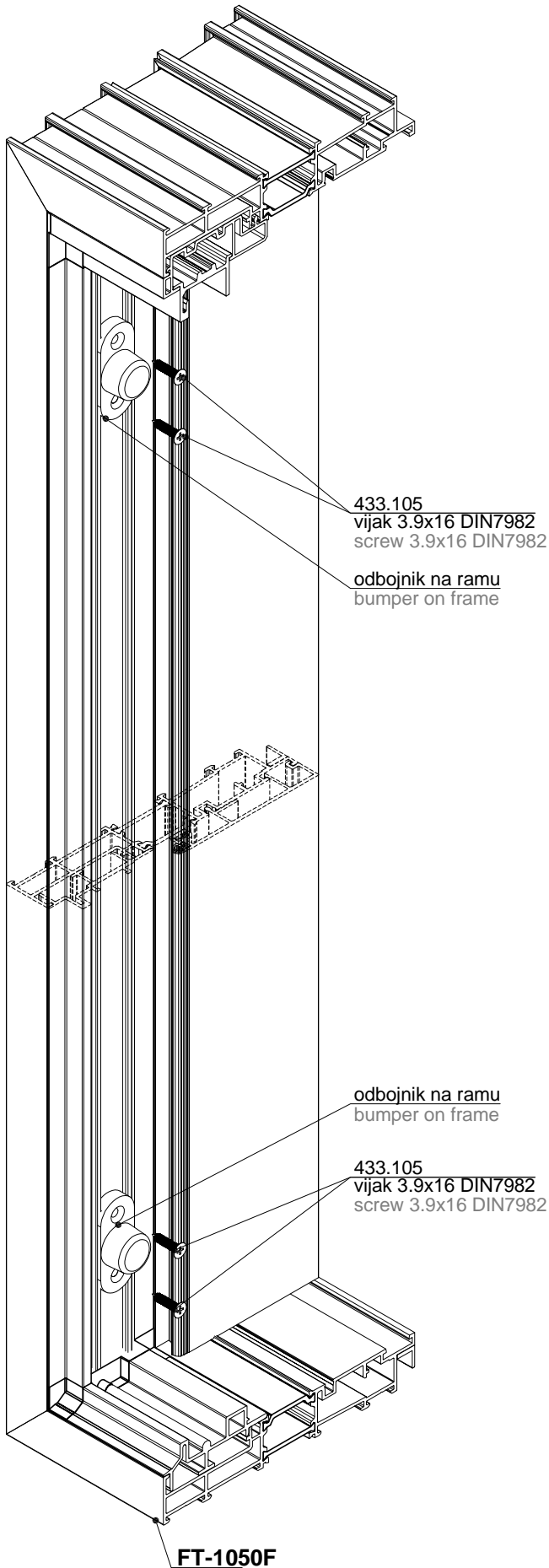


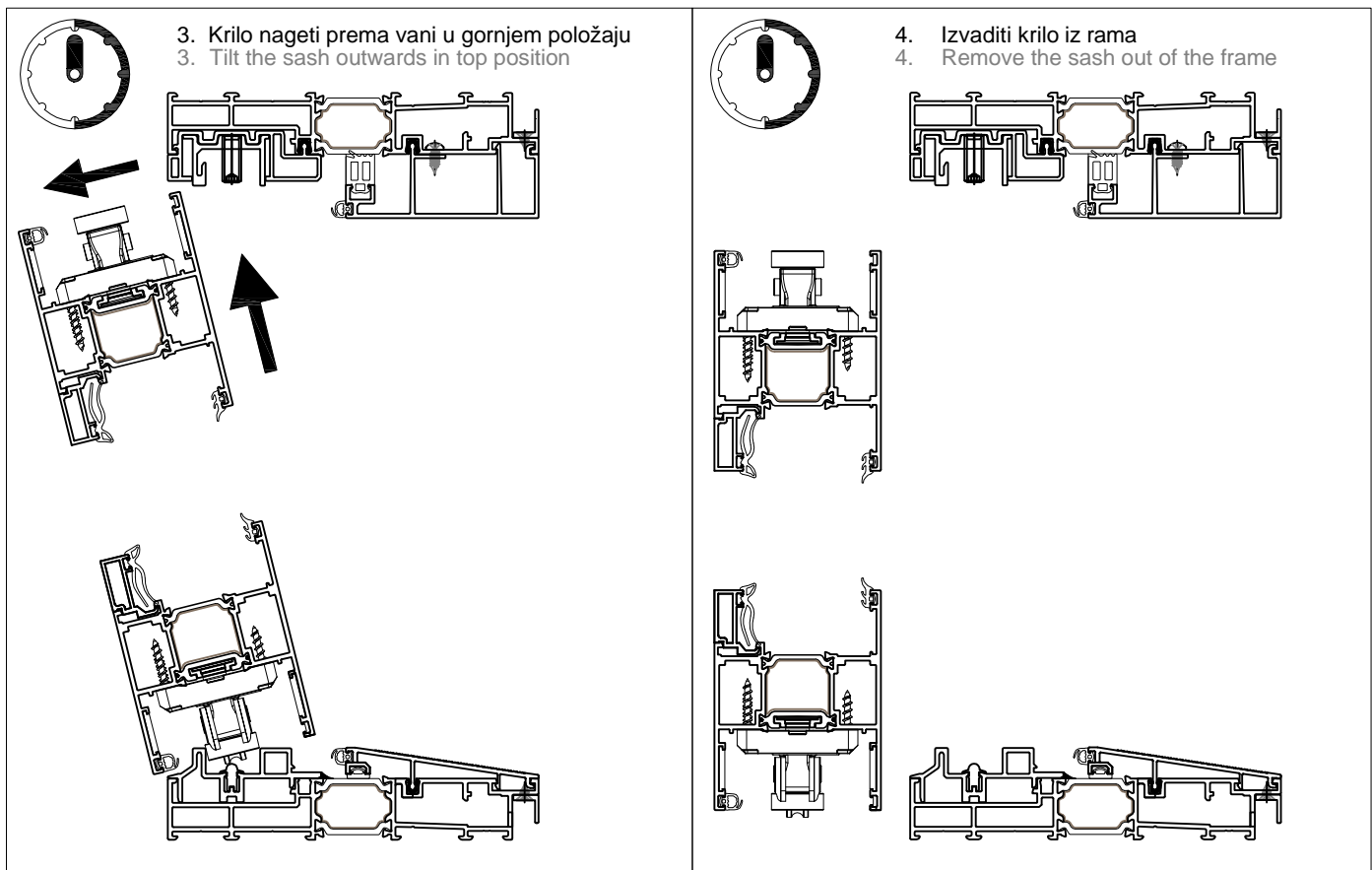
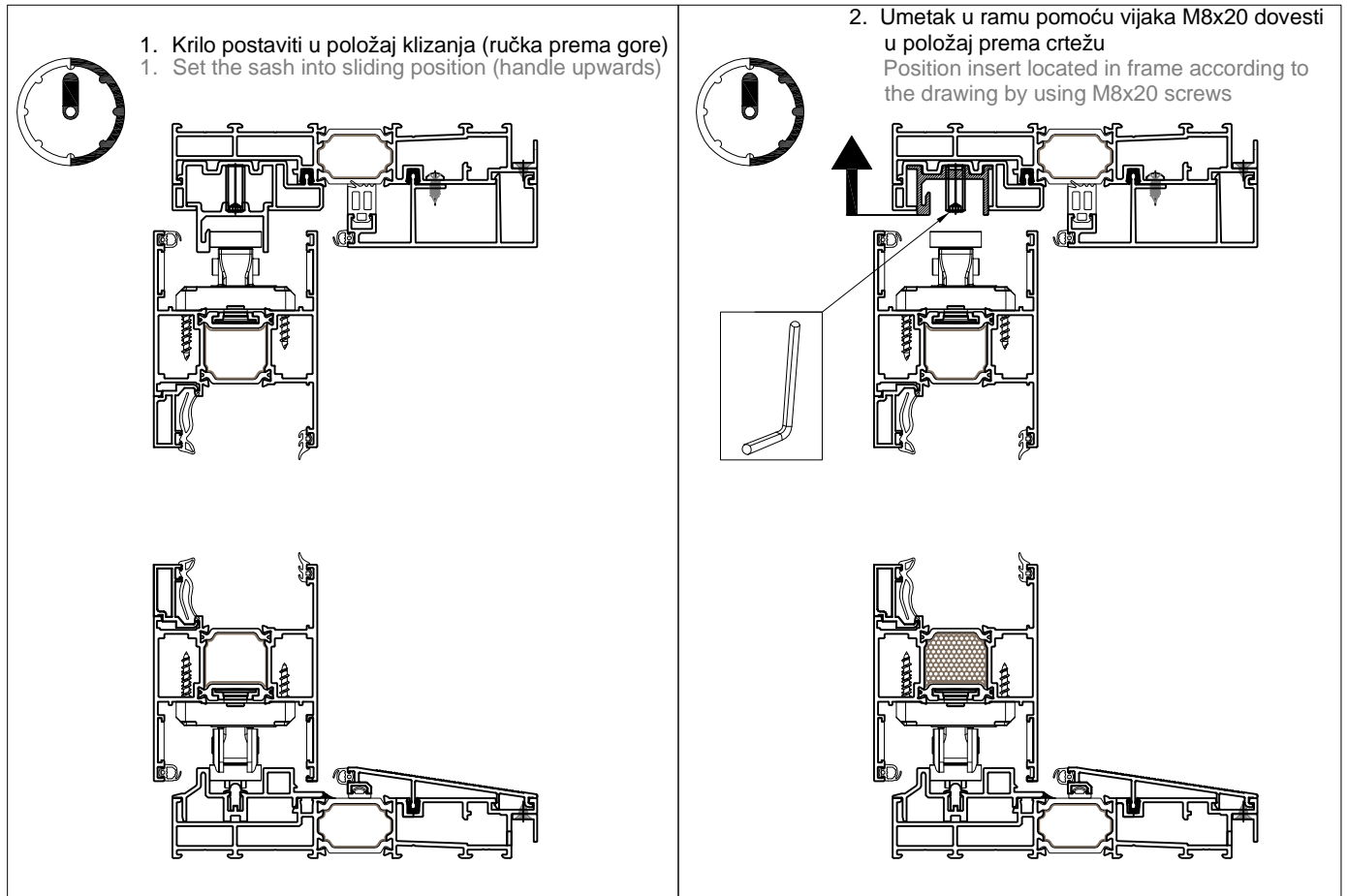
3. Ugradnja ključanja na prečku
3. Locking installation on window mullion

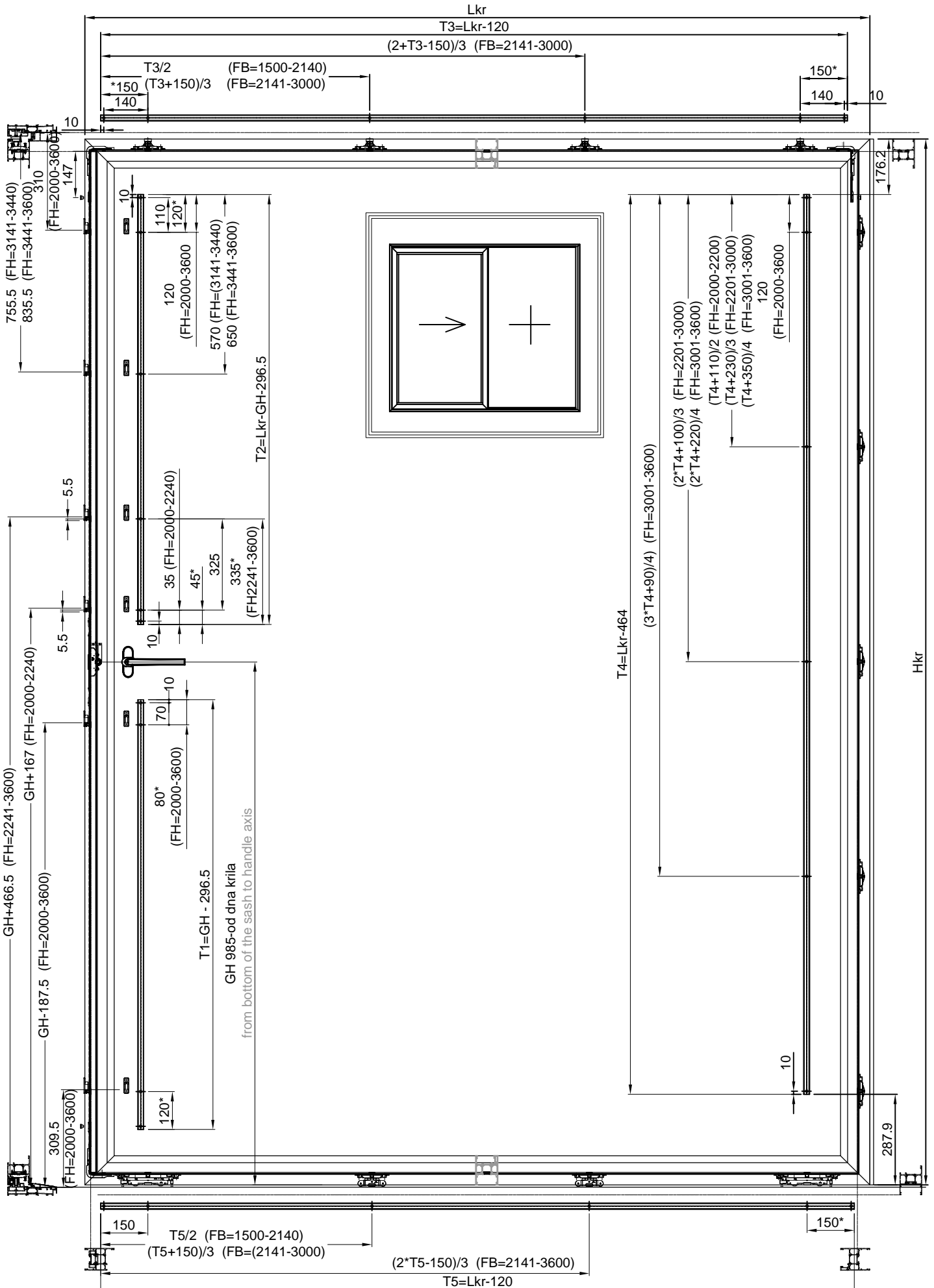


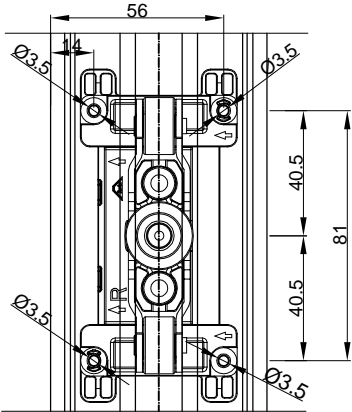
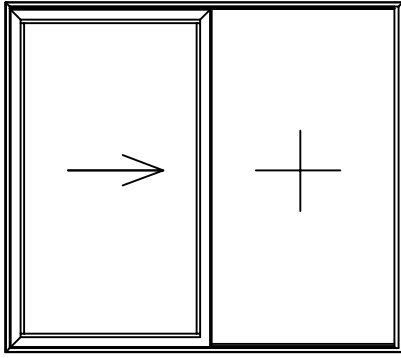
6xvijak 4.2x22 DIN7982
6xscrew 4.2x22 DIN7982



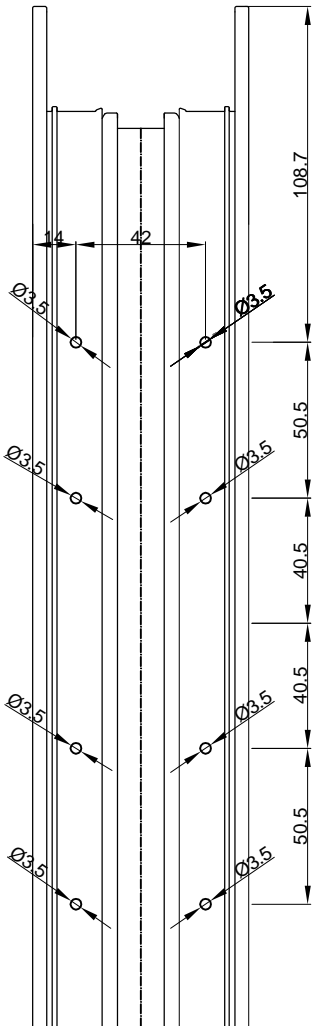
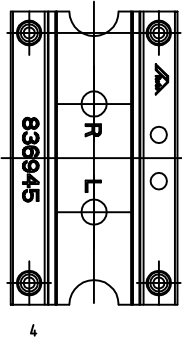




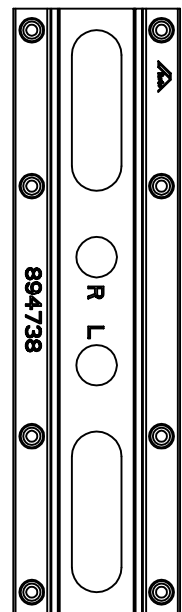




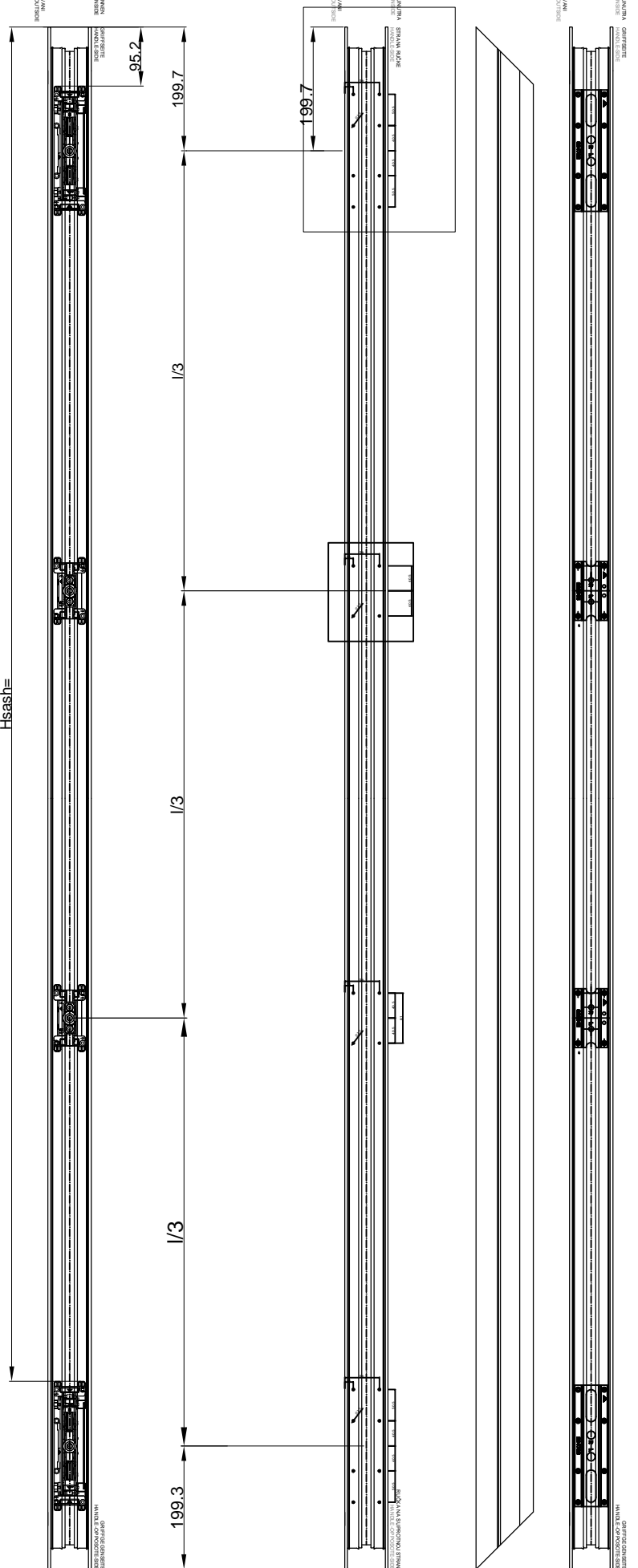
Koristiti šablon
Using templete



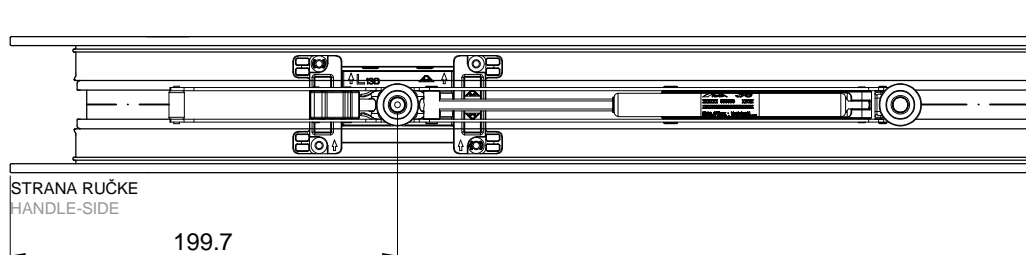
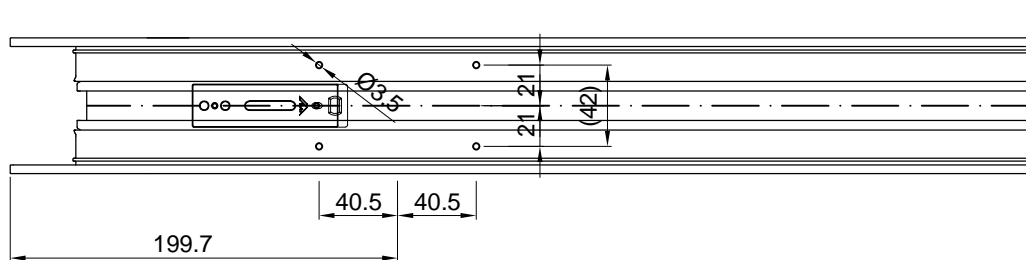
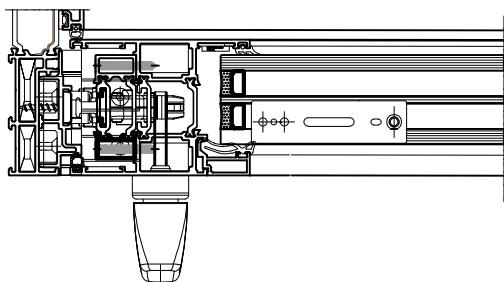
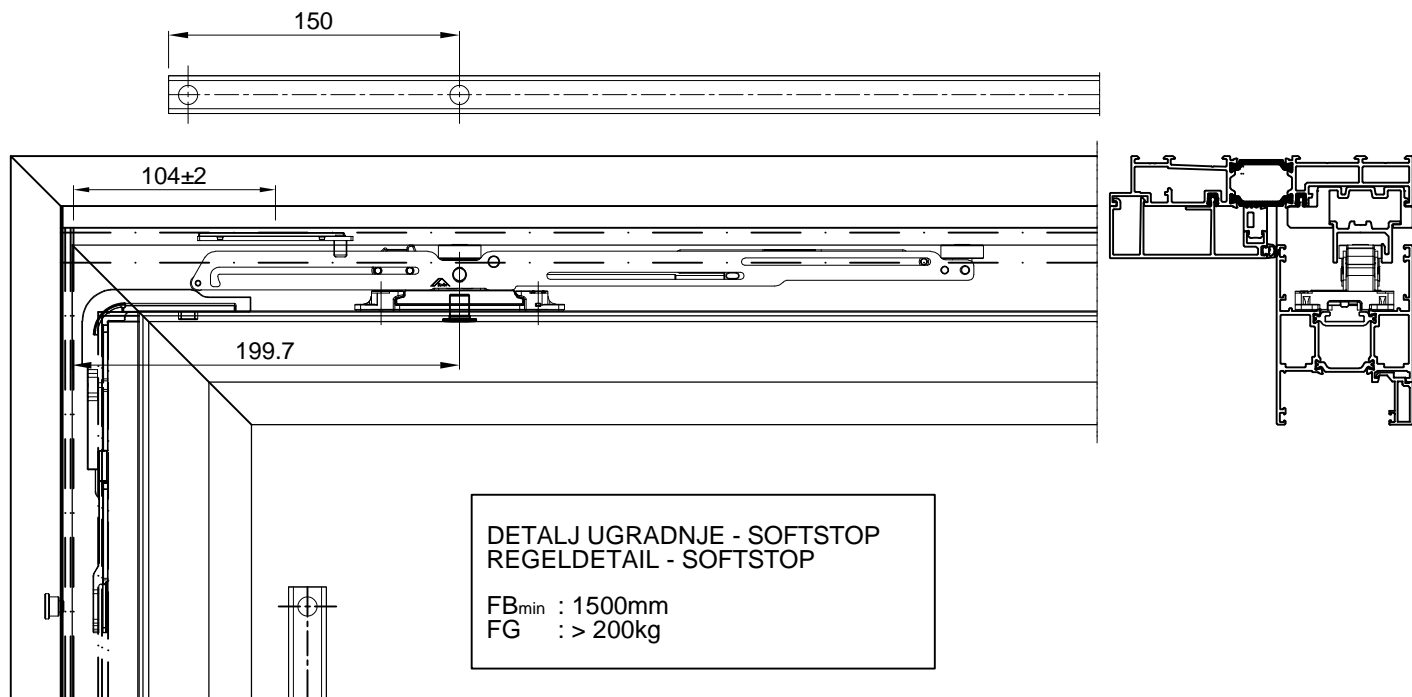
Koristiti šablon
Using templete



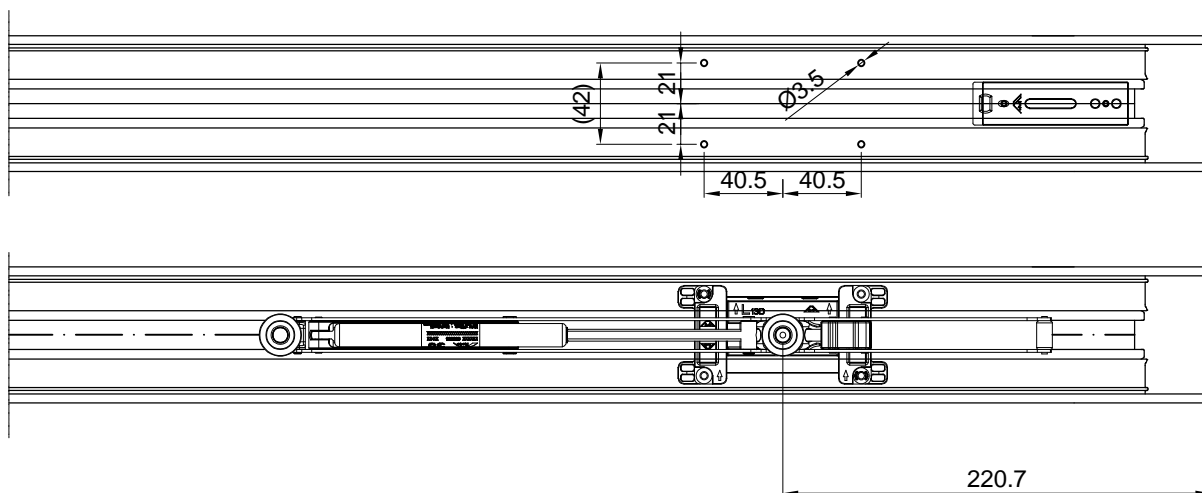
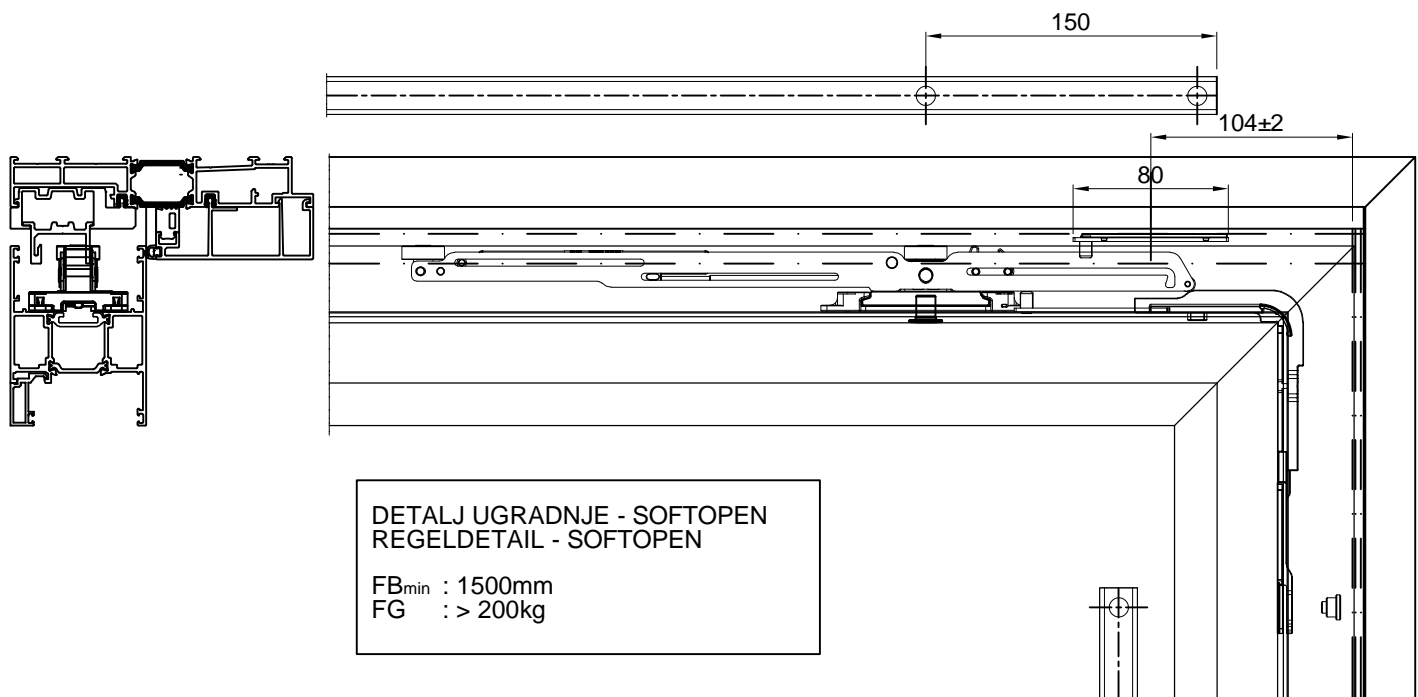
Hkr=
Hsash=

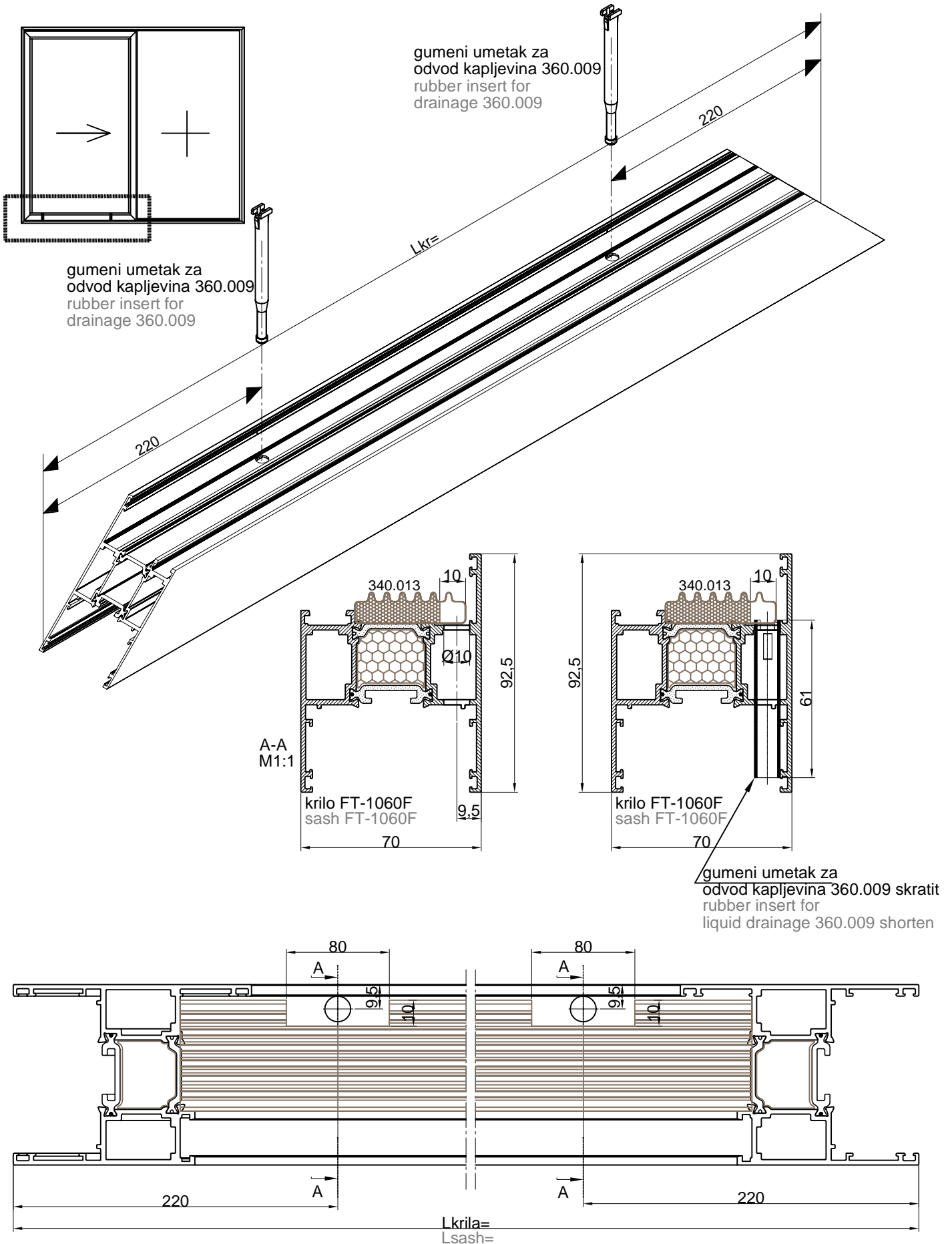


Ugradnja usporivača u krilo 200KG i 400KG Installation of the softclose/soft stop in the sash 200KG/400KG

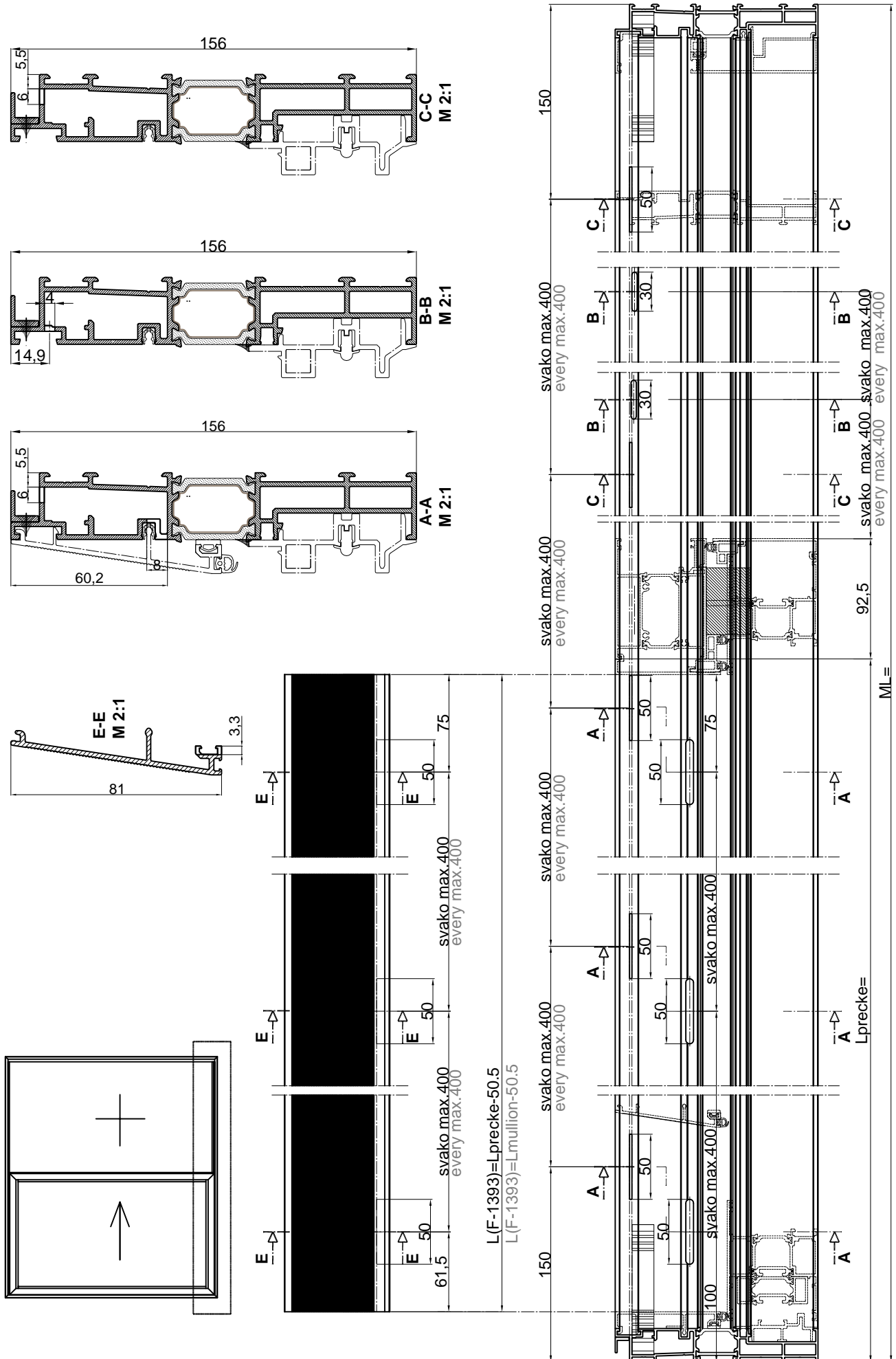


Ugradnja usporivača/pomoć pri otvaranju u krilo 200KG i 400KG
Installation of the soft open/soft stop in the sash 200KG/400KG





NAPOMENA: ZA KRILA DIMENZIJA VEĆIH OD 1000 mm DODATI
JOŠ JEDAN UMETAK ZA ODVOĐ KAPLJEVINA NA SREDINU
REMARK: FOR SASH WITH DIMENSIONS OVER 1000 mm ADD
ONE MORE INSERT FOR LIQUID DRAINAGE TO CENTER



NAPOMENA: - Za klizna vrata koja nisu izložena većoj količini padalina koristiti ovakav način ugradnje i odvoda vode.
REMARK: - For sliding doors that are not exposed to a higher amount of rainfall, make this kind of installation and drainage.

Rezna lista

Cutting list

naziv name		mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles				
FT-1050F vodoravnica rama	horiz. frame prof./hor. crossbar	ML	2	45-45
FT-1050F okomica rama	ver.frame prof./ver. crossbar	MH	2	45-45
FT-1060F vodoravnica krila	horiz. sash profile	$Lkr=(ML/2)-6$	2	45-45
FT-1060F okomica krila	vert.sash profile	$Hkr=MH-79$	2	45-45
FT-1070F prečka	mullion	MH-51.5	1	90-90
FT-1071F umetak	insert	Hkr-83	1	90-90
F-1384 maska	mask	MH-79	1	90-90
F-1384 maska	mask	MH-51.5	1	90-90
F-1385 umetak	mask	ML-90	1	90-90
F-1386 maska	mask	Lkr-99.5	1	90-90
F-1387 al profil	al profile	ML-38	1	90-90
F-1388 umetak	insert	ML-53.5	1	90-90
F-1389 maska	mask	MH-51.5	1	90-90
F-1390 okomiti umetak rama	vertical sash insert	MH-94.5	1	90-90
F-1391 maska	mask	MH-63	1	90-90
F-1466 vod.umetak rama-prag	hor.insert frame-threshold	ML-90	1	90-90
F-1112 al vodilica-elox S0	al guide-elox S0	ML-90	1	90-90
F-1393 maska praga	threshold mask	Lkr-99.5	1	90-90
F-1394 staklo lajsna	glazing bead	ML-Lkr-96.5	2	90-90
F-1394 staklo lajsna	glazing bead	MH-51.5	1	90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	ML-Lkr-74.5	1	90-90
F-1396 staklo lajsna fix.dijela	glazin bead fix.part	ML-Lkr-74.5	1	90-90
F-0784 staklo lajsna	glazing bead	Lkr-141	2	90-90
F-0784 staklo lajsna	glazing bead	Hkr-185	2	90-90
F-0784 staklo lajsna	glazing bead	MH-105	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Lkr-120	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Hkr-464	1	90-90

Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket		4	
710.493 kutna spojnica	corner bracket		4	
710.495 kutna spojnica	corner bracket		4	
710.202 kutna spojnica	corner bracket		8	
730.017 kutna spojnica	corner bracket		8	
731.010 kutna spojnica	corner bracket		4	

Pvc profili Pvc profile

374.064 umetak za st.lajnsnu F-1396	insert for gl. bead F-1396	ML-Lkr-74.5	1	90-90
374.065 umetak za st.lajnsnu F-1395	insert for gl. bead F-1395	ML-Lkr-74.5	1	90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	1	90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	1	90-90

Čepovi i umetci Caps and inserts

375.054 donji čep za ravni spoj na ramu	lower cap for straight joint on frame		1	
375.056 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame		1	
375.058 gornji čep maske krila	upper mask sash cap		1	
375.059 donji čep maske krila	lower mask sash cap		1	
375.048 umetak za fiksiranje	fixation insert		2H/300+5L/300	
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash		2	
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint		1	

Brtve Gaskets

341.011 brtva	gasket	2Lkr+1Hkr		
341.012 brtva	gasket	2Lkr+4Hkr		
341.010 brtva	gasket	ML/2+MH		
351.016 brtva	gasket	1H		
351.017 brtva	gasket	L/2		
321.002 brtva	gasket	2Lkr+2Lfix+2Hkr+2MH		
311.003 brtva	gasket	2Lkr+2Lfix+2Hkr+2MH		
340.013 izolacijski umetak	insulation insert	2Lkr+2Lfix+2Hkr+2MH		
340.070 izolacijski umetak	insulation insert	1Hprečke		
340.071 izolacijski umetak	insulation insert	1Hprečke		

NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....

GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)

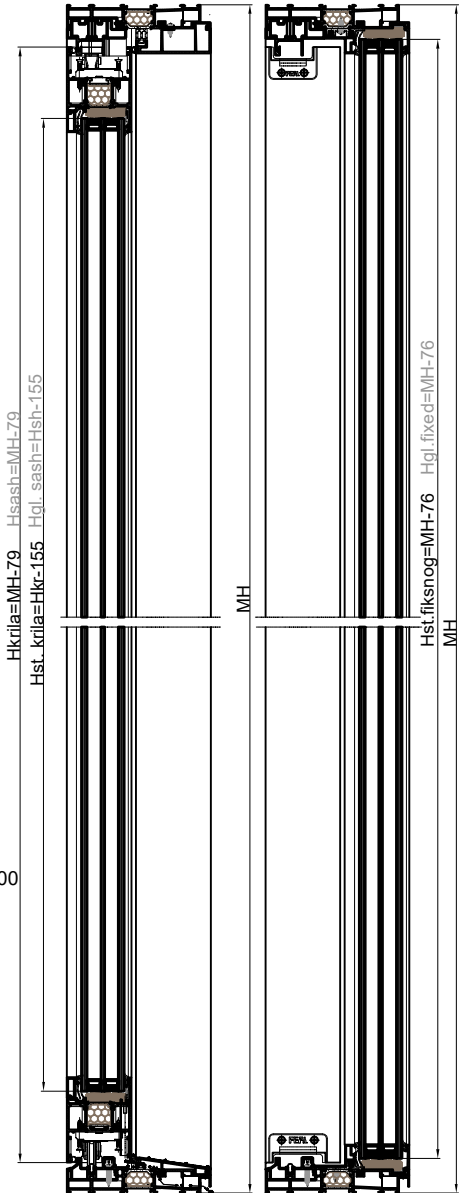
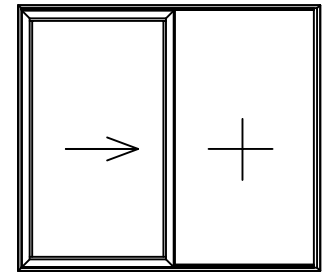
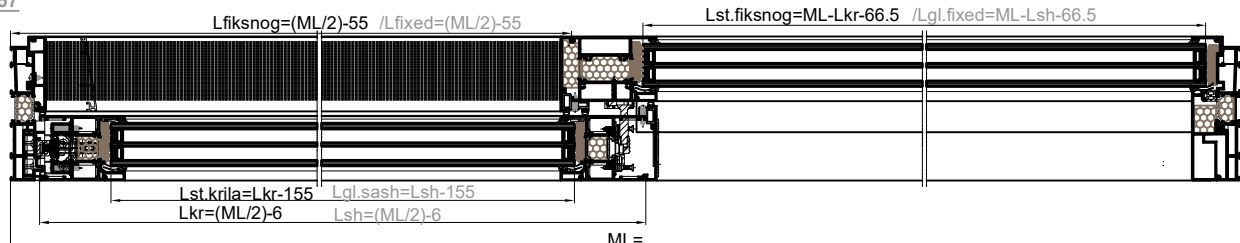
- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

- IZRAČUN JE ZA LIJEVA VRATA UKOLIKO SE KORISTE DESNA MJENJA SE PVC UMETAK 375.054 U 375.055 I UMETAK 375.056 U 375.057

REMARK: HARWARE AND HANDLES TO CHOOSE FROM CATALOG pg. 405.06.01....

- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

- CALCULATION IS FOR LEFT DOOR, IF RIGHT DOOR IS USED PVC INSERT CHANGES FORM 375.054 TO 375.055 AND INSERT 375.056 TO 375.057



naziv name		mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles				
FT-1050F vodoravnica rama	horiz.frame profile/hor. crossbar	ML	2	45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar	MH	2	45-45
FT-1060F vodoravnica krila	horiz.sash profile	Lkr=(ML/2)-6	2	45-45
FT-1060F okomica krila	vert.sash profile	Hkr=MH-79	2	45-45
FT-1070F prečka	mullion	MH-51.5	1	90-90
FT-1071F umetak	insert	Hkr-83	1	90-90
F-1384 maska	mask	MH-79	1	90-90
F-1384 maska	mask	MH-51.5	1	90-90
F-1385 umetak	mask	ML-90	1	90-90
F-1386 maska	mask	Lkr-99.5	1	90-90
F-1387 al profil	al profile	ML-38	1	90-90
F-1388 umetak	insert	ML-53.5	1	90-90
F-1389 maska	mask	MH-51.5	1	90-90
F-1390 okomiti umetak rama	vertical sash insert	MH-94.5	1	90-90
F-1391 maska	mask	MH-63	1	90-90
F-1392 vod.umetak rama-prag	hor.insert frame-treshold	ML-90	1	90-90
F-1393 maska praga	treshold mask	Lkr-99.5	1	90-90
F-1394 staklo lajsna	glazing bead	ML-Lkr-96.5	2	90-90
F-1394 staklo lajsna	glazing bead	MH-51.5	1	90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	ML-Lkr-74.5	1	90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	ML-Lkr-74.5	1	90-90
F-0784 staklo lajsna	glazing bead	Lkr-141	2	90-90
F-0784 staklo lajsna	glazing bead	Hkr-185	2	90-90
F-0784 staklo lajsna	glazing bead	MH-105	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Lkr-120	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	1	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Hkr-464	1	90-90

Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket		4	
710.493 kutna spojnica	corner bracket		4	
710.495 kutna spojnica	corner bracket		4	
710.202 kutna spojnica	corner bracket		8	
730.017 kutna spojnica	corner bracket		8	
731.010 kutna spojnica	corner bracket		4	

Pvc profili Pvc profiles

374.064 umetak za st.lajsnu F-1396	insert for gl. bead F-1396	ML-Lkr-74.5	1	90-90
374.065 umetak za st.lajsnu F-1395	insert for gl. bead F-1395	ML-Lkr-74.5	1	90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	1	90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	1	90-90

Čepovi i umetci Caps and inserts

375.054 donji čep za ravni spoj na ramu	lower cap for straight joint on frame		1	
375.056 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame		1	
375.058 gornji čep maske krila	upper mask sash cap		1	
375.059 donji čep maske krila	lower mask sash cap		1	
375.048 umetak za fiksiranje	fixation insert		2H/300+5L/300	
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash		2	
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint		1	

Brtve Gaskets

341.011 brtva	gasket	2Lkr+1Hkr		
341.012 brtva	gasket	2Lkr+4Hkr		
341.010 brtva	gasket	ML/2+MH		
351.016 brtva	gasket	1H		
351.017 brtva	gasket	L/2		
321.002 brtva	gasket	2Lkr+2Lfix+2Hkr+2MH		
311.003 brtva	gasket	2Lkr+2Lfix+2Hkr+2MH		
340.013 izolacijski umetak	insulation insert	2Lkr+2Lfix+2Hkr+2MH		
340.070 izolacijski umetak	insulation insert	1Hprečke		
340.071 izolacijski umetak	insulation insert	1Hprečke		

NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01.... GH (kota dno krila-osa ručke)

- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm GH (dim.bottom end of sash-axis handle)

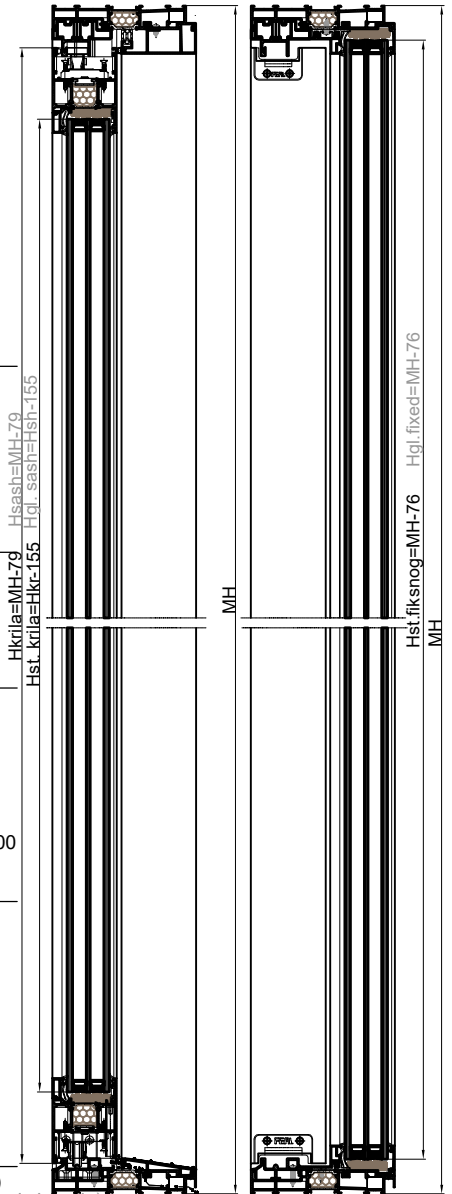
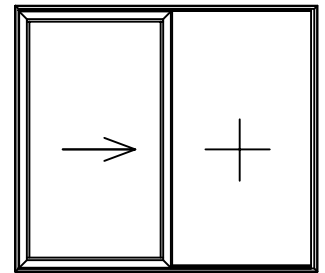
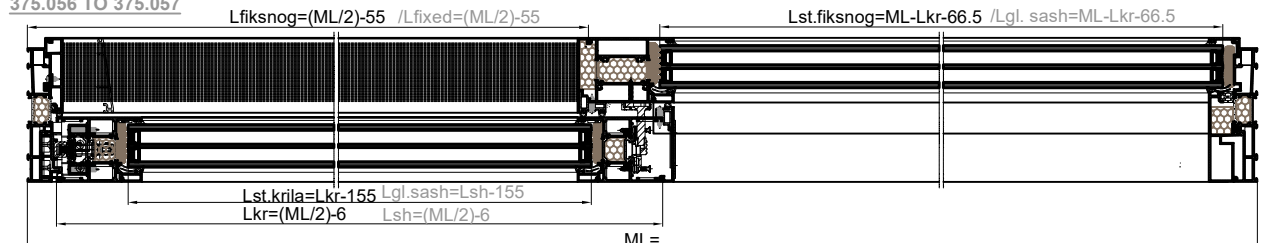
- IZRAČUN JE ZA LIJEVA VRATA UKOLIKO SE KORISTE DESNA MJENJA SE PVC UMETAK 375.054 U 375.055 I UMETAK 375.056 U 375.057

REMARK: HARWARE AND HANDLES TO CHOOSE FROM CATALOG pg. 405.06.01....

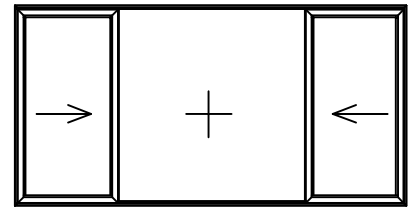
- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

- CALCULATION IS FOR LEFT DOOR, IF RIGHT DOOR IS USED PVC INSERT CHANGES FORM 375.054 TO 375.055 AND INSERT

375.056 TO 375.057



naziv name	mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles			
FT-1050F vodoravnica rama	horiz.frame profile/hor. crossbar ML	2	45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar MH	2	45-45
FT-1060F vodoravnica krila	horiz.sash profile	4	45-45
FT-1060F okomica krila	vert.sash profile	4	45-45
FT-1070F prečka	mullion	2	90-90
FT-1071F umetak	insert	2	90-90
F-1384 maska	mask	2	90-90
F-1384 maska	mask	2	90-90
F-1385 umetak	insert	1	90-90
F-1386 maska	mask	2	90-90
F-1387 al profil	al profile	1	90-90
F-1388 umetak	insert	1	90-90
F-1389 maska	mask	2	90-90
F-1390 okomiti umetak rama	vertical sash insert	2	90-90
F-1466 vodoravni umetak rama-prag	hor.insert frame-threshold	1	90-90
F-1112 al vodilica (elox S0)	al guide-elox S0	1	90-90
F-1393 maska praga	threshold mask	2	90-90
F-1394 staklo lajsna	glazing bead	2	90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	1	90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	1	90-90
F-0784 staklo lajsna	glazing bead	4	90-90
F-0784 staklo lajsna	glazing bead	4	90-90
F-0784 staklo lajsna	glazing bead	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	4	90-90
F-1448 klizač (elox S0)	slider (elox S0)	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	2	90-90



Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket	4
710.493 kutna spojnica	corner bracket	4
710.495 kutna spojnica	corner bracket	4
710.202 kutna spojnica	corner bracket	16
730.017 kutna spojnica	corner bracket	16
731.010 kutna spojnica	corner bracket	8

Pvc profili Pvc profiles

374.064 umetak za st.lajсну F-1396	insert for gl. bead F-1396	Lxp-141	1	90-90
374.065 umetak za st.lajсну F-1395	insert for gl. bead F-1395	Lxp-141	1	90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	2	90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	2	90-90

Čepovi i umetci Caps and inserts

375.054 donji čep za ravni spoj na ramu	lower cap for straight joint on frame	1
375.055 donji čep za ravni spoj na ramu	lower cap for straight joint on frame	1
375.056 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame	1
375.057 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame	1
375.058 gornji čep maske krila	upper mask sash cap	2
375.059 donji čep maske krila	lower mask sash cap	2
375.048 umetak za fiksiranje	fixation insert	2H/300+6L/300
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash	4
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint	2

Brtve Gaskets

341.011 brtva	gasket	4Lkr+2Hkr
341.012 brtva	gasket	4Lkr+8Hkr
341.010 brtva	gasket	ML/2+2MH
351.017 brtva	gasket	L/2
321.002 brtva	gasket	4Lkr+2Lfix+4Hkr+2MH
311.003 brtva	gasket	4Lkr+2Lfix+4Hkr+2MH
340.013 izolacijski umetak	insulation insert	4Lkr+2Lfix+4Hkr+2MH
340.070 izolacijski umetak	insulation insert	2Hprečke

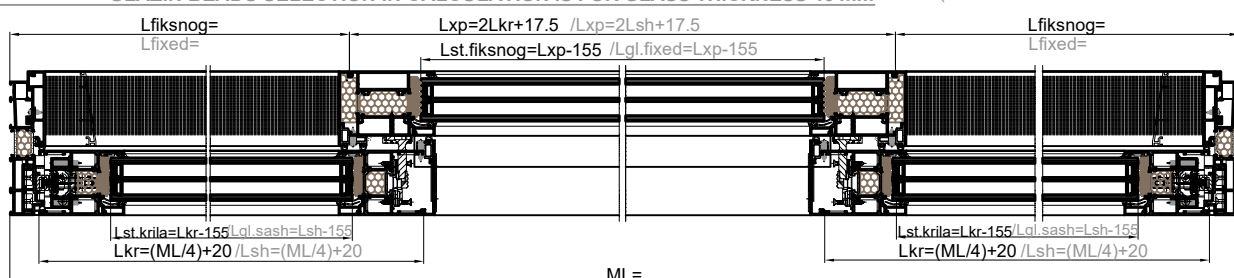
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

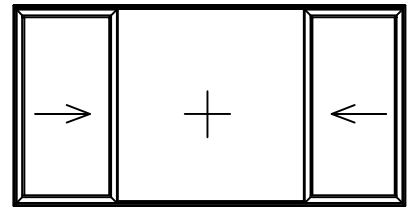
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)



naziv name	mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles			
FT-1050F vodoravnica rama	horiz.frame profile/hor. crossbar ML	2	45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar MH	2	45-45
FT-1060F vodoravnica krila	horiz.sash profile Lkr=(ML/4)+20	4	45-45
FT-1060F okomica krila	vert.sash profile Hkr=MH-79	4	45-45
FT-1070F prečka	mullion MH-51.5	2	90-90
FT-1071F umetak	insert Hkr-83	2	90-90
F-1384 maska	mask MH-79	2	90-90
F-1384 maska	mask MH-51.5	2	90-90
F-1385 umetak	insert ML-90	1	90-90
F-1386 maska	mask Lkr-99.5	2	90-90
F-1387 al profil	al profile ML-38	1	90-90
F-1388 umetak	insert ML-53.5	1	90-90
F-1389 maska	mask MH-51.5	2	90-90
F-1390 okomiti umetak rama	vertical sash insert MH-94.5	2	90-90
F-1392 vodoravni umetak rama-prag	hor.insert frame-threshold ML-90	1	90-90
F-1393 maska praga	threshold mask Lkr-99.5	2	90-90
F-1394 staklo lajsna	glazing bead Lxp-185	2	90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part Lxp-141	1	90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part Lxp-141	1	90-90
F-0784 staklo lajsna	glazing bead Lkr-141	4	90-90
F-0784 staklo lajsna	glazing bead Hkr-185	4	90-90
F-0784 staklo lajsna	glazing bead MH-105	2	90-90
F-1448 klizač (elox S0)	slider (elox S0) GH-296.5	2	90-90
F-1448 klizač (elox S0)	slider (elox S0) Lkr-120	4	90-90
F-1448 klizač (elox S0)	slider (elox S0) GH-296.5	2	90-90
F-1448 klizač (elox S0)	slider (elox S0) Hkr-464	2	90-90



Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket	4
710.493 kutna spojnica	corner bracket	4
710.495 kutna spojnica	corner bracket	4
710.202 kutna spojnica	corner bracket	16
730.017 kutna spojnica	corner bracket	16
731.010 kutna spojnica	corner bracket	8

Pvc profili Pvc profiles

374.064 umetak za st.lajnsnu F-1396	insert for gl. bead F-1396	Lxp-141	1	90-90
374.065 umetak za st.lajnsnu F-1395	insert for gl. bead F-1395	Lxp-141	1	90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	2	90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	2	90-90

Čepovi i umetci Caps and inserts

375.054 donji čep za ravni spoj na ramu	lower cap for straight joint on frame	1
375.055 donji čep za ravni spoj na ramu	lower cap for straight joint on frame	1
375.056 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame	1
375.057 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame	1
375.058 gornji čep maske krila	upper mask sash cap	2
375.059 donji čep maske krila	lower mask sash cap	2
375.048 umetak za fiksiranje	fixation insert	2H/300+6L/300
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash	4
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint	2

Brtve Gaskets

341.011 brtva	gasket	4Lkr+2Hkr
341.012 brtva	gasket	4Lkr+8Hkr
341.010 brtva	gasket	ML/2+2MH
351.017 brtva	gasket	L/2
321.002 brtva	gasket	4Lkr+2Lfix+4Hkr+2MH
311.003 brtva	gasket	4Lkr+2Lfix+4Hkr+2MH
340.013 izolacijski umetak	insulation insert	4Lkr+2Lfix+4Hkr+2MH
340.070 izolacijski umetak	insulation insert	2Hprečke

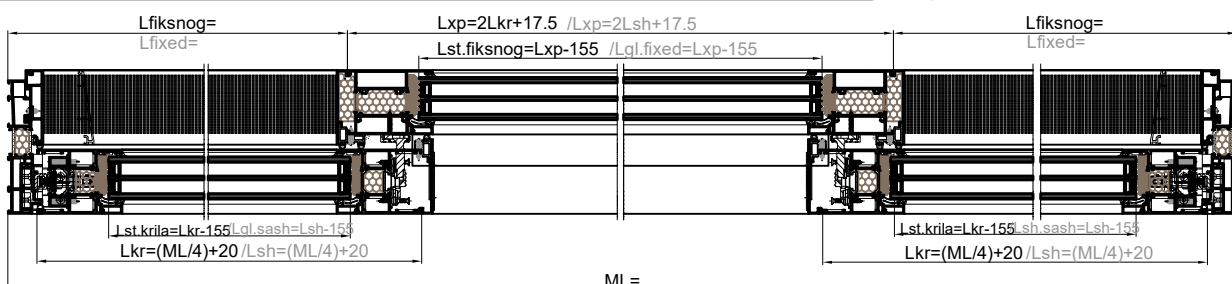
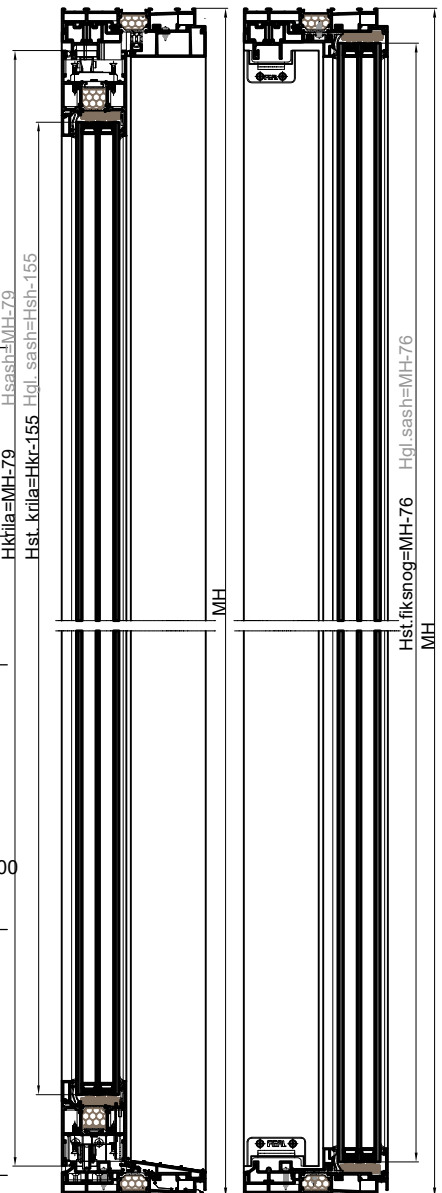
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)



naziv name	mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles			
FT-1050F vodoravnica rama	horiz.frame profile/hor. crossbar	ML	2 45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar	MH	2 45-45
FT-1060F vodoravnica krila	horiz.sash profile	Lkr=(ML/4)+8.5	4 45-45
FT-1060F okomica krila	vert.sash profile	Hkr=MH-79	4 45-45
FT-1070F prečka	mullion	MH-51.5	2 90-90
FT-1072F umetak	insert	Hkr-25.6	2 90-90
F-1384 maska	mask	MH-79	2 90-90
F-1384 maska	mask	MH-51.5	2 90-90
F-1385 umetak	insert	ML-108	1 90-90
F-1386 maska	mask	ML-2Lfix-25	1 90-90
F-1387 al profil	al profile	ML-38	1 90-90
F-1388 umetak	insert	ML-52	1 90-90
F-1391 maska	mask	MH-63	2 90-90
F-1466 vodoravni umetak rama-prag	hor.insert frame-threshold	ML-106	1 90-90
F-1112 al vodilica (elox S0)	al guide (elox S0)	ML-106	1 90-90
F-1393 maska praga	threshold mask	ML-2Lfix-25	1 90-90
F-1394 staklo lajsna	glazing bead	Lfix-145.5	4 90-90
F-1394 staklo lajsna	glazing bead	MH-51.5	2 90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123.5	2 90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123.5	2 90-90
F-0784 staklo lajsna	glazing bead	Lkr-141	4 90-90
F-0784 staklo lajsna	glazing bead	Hkr-185	4 90-90
F-0784 staklo lajsna	glazing bead	MH-105	2 90-90
F-1476 umetak	insert	L=50 mm	2 (za Hkr>1970)
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2 90-90
F-1448 klizač (elox S0)	slider (elox S0)	Lkr-120	4 90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2 90-90
F-1448 klizač (elox S0)	slider (elox S0)	Hkr-464	2 90-90

Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket	4	
710.493 kutna spojnica	corner bracket	4	
710.495 kutna spojnica	corner bracket	4	
710.202 kutna spojnica	corner bracket	16	
730.017 kutna spojnica	corner bracket	16	
731.010 kutna spojnica	corner bracket	8	
730.002 kutna spojnica	corner bracket	24	

Pvc profili Pvc profiles

374.064 umetak za st.lajnsnu F-1396	insert for gl. bead F-1396	Lfix-123.5	2 90-90
374.065 umetak za st.lajnsnu F-1395	insert for gl. bead F-1395	Lfix-123.5	2 90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	2 90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	2 90-90

Čepovi i umetci Caps and inserts

375.058 gornji čep maske krila	upper mask sash cap	2	
375.059 donji čep maske krila	lower mask sash cap	2	
375.048 umetak za fiksiranje	fixation insert	4L/300	
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash	4	
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint	2	
363.048 čep na spoju dva krila za Shemu C	Cap on two sash joint for scheme C	2	

Brtve Gaskets

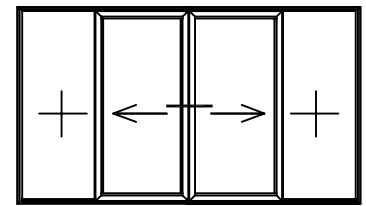
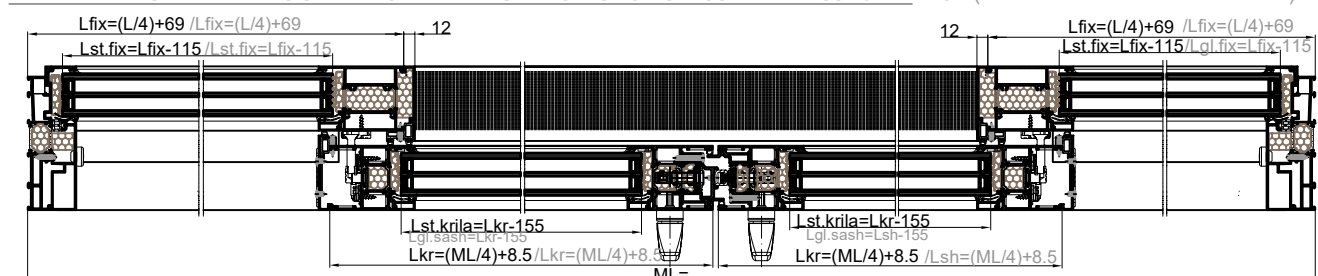
341.011 brtva	gasket	4Lkr+2Hkr	
341.012 brtva	gasket	4Lkr+6Hkr	
341.010 brtva	gasket	ML-2Lfix-25	1
351.016 brtva	gasket	2H	
351.017 brtva	gasket	ML-2Lfix-25	1
321.002 brtva	gasket	4Lkr+4Lfix+4Hkr+4MH	
311.003 brtva	gasket	4Lkr+4Lfix+4Hkr+4MH	
340.013 izolacijski umetak	insulation insert	4Lkr+4Lfix+4Hkr+4MH	
340.070 izolacijski umetak	insulation insert	2Hprečke	
340.071 izolacijski umetak	insulation insert	2Hprečke	

NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....

- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm;

REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01....

- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm



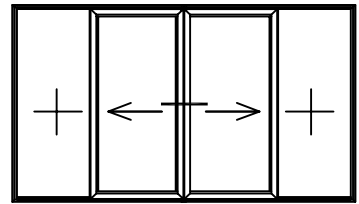
POMOĆNO KRILO
AUXILIARY SASH
GLAVNO KRILO
BASIC SASH



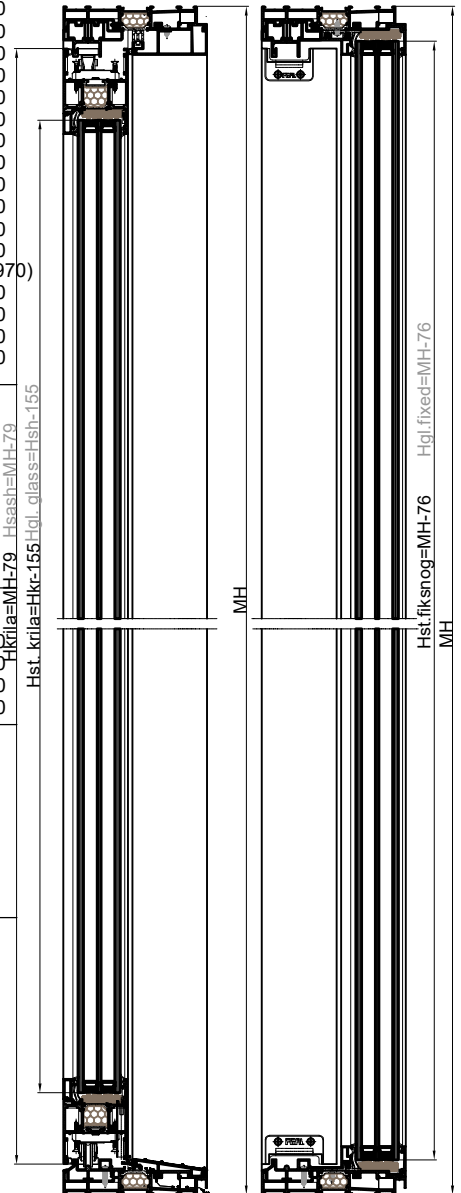
GH (kota dno krila-osa ručke)

GH (dim.bottom end of sash-axis handle)

naziv name		mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles				
FT-1050F vodoravnica rama	horiz.frame profile/hor. crossbar	ML	2	45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar	MH	2	45-45
FT-1060F vodoravnica krila	horiz.sash profile	$Lkr=(ML/4)+8.5$	4	45-45
FT-1060F okomica krila	vert.sash profile	Hkr=MH-79	4	45-45
FT-1070F prečka	mullion	MH-51.5	2	90-90
FT-1072F umetak	insert	Hkr-25.6	2	90-90
F-1384 maska	mask	MH-79	2	90-90
F-1384 maska	mask	MH-51.5	2	90-90
F-1385 umetak	insert	ML-108	1	90-90
F-1386 maska	mask	ML-2Lfix-25	1	90-90
F-1387 al profil	al profile	ML-38	1	90-90
F-1388 umetak	insert	ML-52	1	90-90
F-1391 maska	mask	MH-63	2	90-90
F-1392 vodoravni umetak rama-prag	hor.insert frame-treshold	ML-106	1	90-90
F-1393 maska praga	treshold mask	ML-2Lfix-25	1	90-90
F-1394 staklo lajsna	glazing bead	Lfix-145.5	4	90-90
F-1394 staklo lajsna	glazing bead	MH-51.5	2	90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123.5	2	90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123.5	2	90-90
F-0784 staklo lajsna	glazing bead	Lkr-141	4	90-90
F-0784 staklo lajsna	glazing bead	Hkr-185	4	90-90
F-0784 staklo lajsna	glazing bead	MH-105	2	90-90
F-1476 umetak	insert	L=50 mm	2 (za Hkr>1970)	
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Lkr-120	4	90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2	90-90
F-1448 klizač (elox S0)	slider (elox S0)	Hkr-464	2	90-90



POMOĆNO KRILO
AUXILIARY SASH
GLAVNO KRILO
BASIC SASH



Kutne spojnice Corner brackets

710.491 kutna spojnica	corner bracket		4	
710.493 kutna spojnica	corner bracket		4	
710.495 kutna spojnica	corner bracket		4	
710.202 kutna spojnica	corner bracket		16	
730.017 kutna spojnica	corner bracket		16	
731.010 kutna spojnica	corner bracket		8	
730.002 kutna spojnica	corner bracket		24	

Pvc profili Pvc profiles

374.064 umetak za st.lajсну F-1396	insert for gl. bead F-1396	Lfix-123.5	2	90-90
374.065 umetak za st.lajсну F-1395	insert for gl. bead F-1395	Lfix-123.5	2	90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	2	90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	2	90-90

Čepovi i umetci Caps and inserts

375.058 gornji čep maske krila	upper mask sash cap		2	
375.059 donji čep maske krila	lower mask sash cap		2	
375.048 umetak za fiksiranje	fixation insert		4L/300	
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash		4	
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint		2	
363.048 čep na spoju dva krila za Shemu C	Cap on two sash joint for scheme C		2	

Brtve Gaskets

341.011 brtva	gasket	4Lkr+2Hkr		
341.012 brtva	gasket	4Lkr+6Hkr		
341.010 brtva	gasket	ML-2Lfix-25	1	
351.016 brtva	gasket	2H		
351.017 brtva	gasket	ML-2Lfix-25	1	
321.002 brtva	gasket	4Lkr+4Lfix+4Hkr+4MH		
311.003 brtva	gasket	4Lkr+4Lfix+4Hkr+4MH		
340.013 izolacijski umetak	insulation insert	4Lkr+4Lfix+4Hkr+4MH		
340.070 izolacijski umetak	insulation insert	2Hprečke		
340.071 izolacijski umetak	insulation insert	2Hprečke		

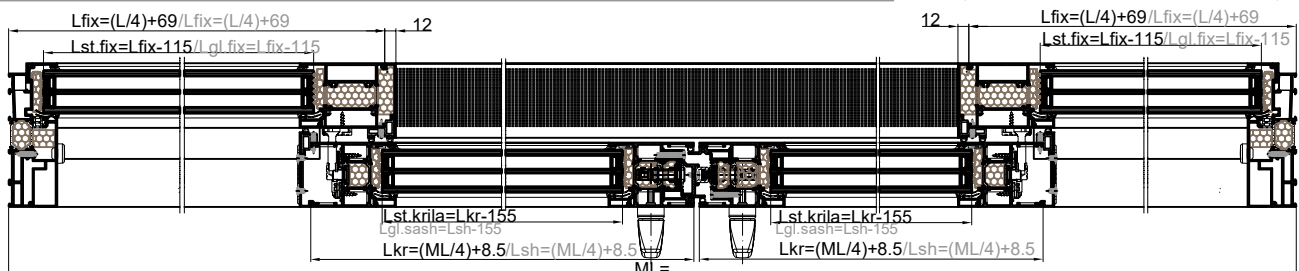
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm;

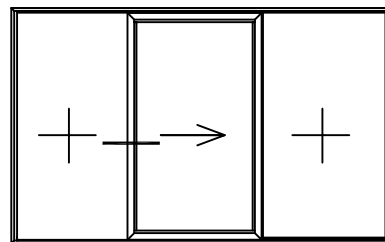
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)



naziv name	mjera (mm) measure (mm)	kom. pcs.	pilanje cutting
Profili Profiles			
FT-1050F vodoravnica rama	horiz.frame profile/hor.crossbar	ML	2 45-45
FT-1050F okomica rama	ver.frame profile/ver. crossbar	MH	2 45-45
FT-1060F vodoravnica krila	horiz.sash profile	Lkr=(ML1/2)-15	2 45-45
FT-1060F okomica krila	vert.sash profile	Hkr=MH-79	2 45-45
FT-1074F prečka	mullion	MH-51.5	1 90-90
FT-1070F prečka	mullion	MH-51.5	1 90-90
FT-1071F umetak	insert	Hkr-83	1 90-90
F-1384 maska	mask	MH-79	1 90-90
F-1384 maska	mask	MH-51.5	1 90-90
F-1385 umetak	umeta	ML1-105	1 90-90
F-1386 maska	mask	ML1-(Lfix+66.5)	1 90-90
F-1387 al profil	al profile	ML-38	1 90-90
F-1388 umetak	insert	ML1-68.5	1 90-90
F-1389 maska	mask	MH-51.5	1 90-90
F-1390 okomiti umetak rama	vertical frame insert	MH-94.5	1 90-90
F-1391 maska	mask	MH-63	2 90-90
F-1391 maska	mask	Lfixx1-79.5	2 90-90
F-1466 vodoravni umetak rama-prag	hor. insert frame-treshold	ML1-105.5	1 90-90
F-1112 al vodilica (elox S0)	al guide (elox S0)	ML1-105.5	1 90-90
F-1393 maska praga	threshold mask	ML1-(Lfix+66.5)	1 90-90
F-1394 staklo lajsna	glazing bead	Lfixx1-79.5	2 90-90
F-1394 staklo lajsna	glazing bead	Lfix-145	2 90-90
F-1394 staklo lajsna	glazing bead	MH-51.5	3 90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123	1 90-90
F-1395 staklo lajsna fix.dijela	glazing bead fix.part	ML-(ML1+79.5)	1 90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	Lfix-123	1 90-90
F-1396 staklo lajsna fix.dijela	glazing bead fix.part	ML-(ML1+79.5)	1 90-90
F-0784 staklo lajsna	glazin bead	Lkr-141	4 90-90
F-0784 staklo lajsna	glazing bead	Hkr-185	4 90-90
F-0784 staklo lajsna	glazing bead	MH-105	2 90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2 90-90
F-1448 klizač (elox S0)	slider (elox S0)	Lkr-120	4 90-90
F-1448 klizač (elox S0)	slider (elox S0)	GH-296.5	2 90-90
F-1448 klizač (elox S0)	slider (elox S0)	Hkr-464	2 90-90



Kutne spojnice Corner brackets

710.491 kutna spojnica	cornern bracket		4
710.493 kutna spojnica	cornern bracket		4
710.495 kutna spojnica	cornern bracket		4
710.202 kutna spojnica	cornern bracket		16
730.017 kutna spojnica	cornern bracket		16
731.010 kutna spojnica	cornern bracket		8

Pvc profili Pvc profiles

374.065 umetak za st.lajnsu F-1395	insert for gl. bead F-1395	Lfix-103	1 90-90
374.065 umetak za st.lajnsu F-1395	insert for gl. bead F-1395	ML-(ML1+79.5)	1 90-90
374.064 umetak za st.lajnsu F-1396	insert for gl. bead F-1396	Lfix-103	1 90-90
374.064 umetak za st.lajnsu F-1396	insert for gl. bead F-1396	ML-(ML1+79.5)	1 90-90
374.066 umetak na spoju dva krila	insert on two sash joint	MH-51.5	2 90-90
374.074 umetak na spoju dva krila	insert on two sash joint	MH-79	2 90-90

Čepovi i umetci Caps and inserts

375.054 donji čep za ravni spoj na ramu	lower cap for straight joint on frame		1
375.056 gornji čep za ravni spoj na ramu	upper cap for straight joint on frame		1
375.058 gornji čep maske krila	upper mask sash cap		1
375.059 donji čep maske krila	lower mask sash cap		1
375.048 umetak za fiksiranje	fixation insert		1H/300+6L/300
360.009 umetak za odvod kapljevina iz krila	insert for drainage from sash		2
365.057 gumeni umetak na spoju krila i fix.	rubber insert on sash and fixed sash joint		1

Brtve Gaskets

341.011 brtva	gasket	2Lkr+1Hkr	
341.012 brtva	gasket	2Lkr+4Hkr	
341.010 brtva	gasket	ML1/2+MH	
351.016 brtva	gasket	3H	
351.017 brtva	gasket	L/2	
321.002 brtva	gasket	2Lkr+4Lfix+2Hkr+4MH	
311.003 brtva	gasket	2Lkr+4Lfix+2Hkr+4MH	
340.013 izolacijski umetak	insulation insert	2Lkr+4Lfix+2Hkr+4MH	
340.070 izolacijski umetak	insulation insert	1Hprečke	
340.071 izolacijski umetak	insulation insert	2Hprečke	

NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

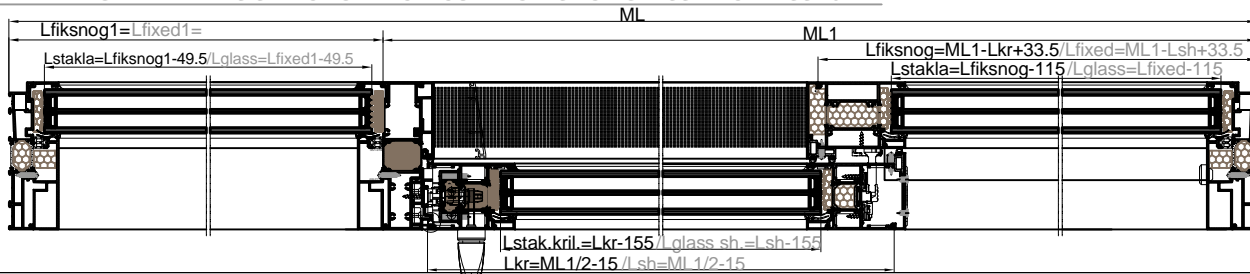
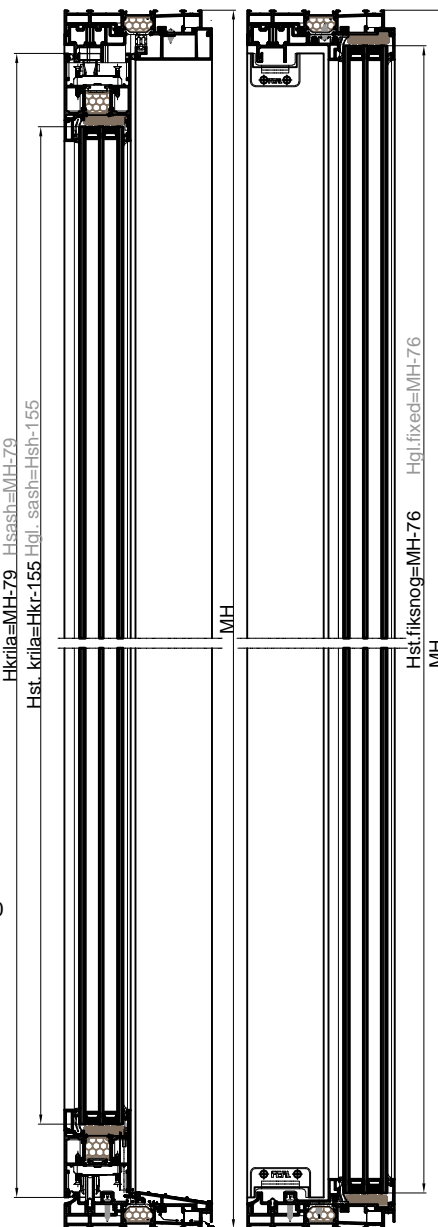
- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

GH (kota dno krila-osa ručke)

GH (dim.bottom end of sash-axis handle)

REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

- GLAZING BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm



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Lipanj 2020. / June 2020

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