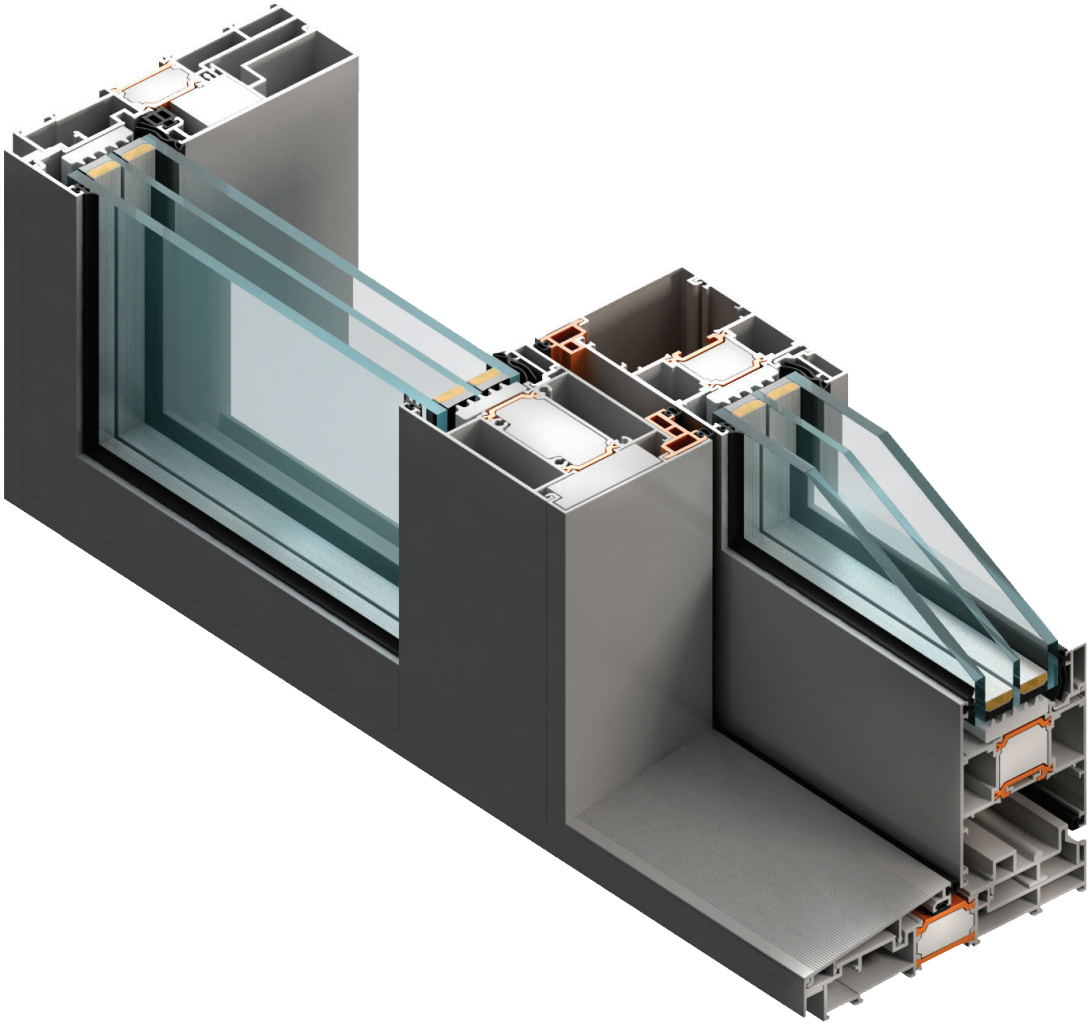
FEAL



INOWA

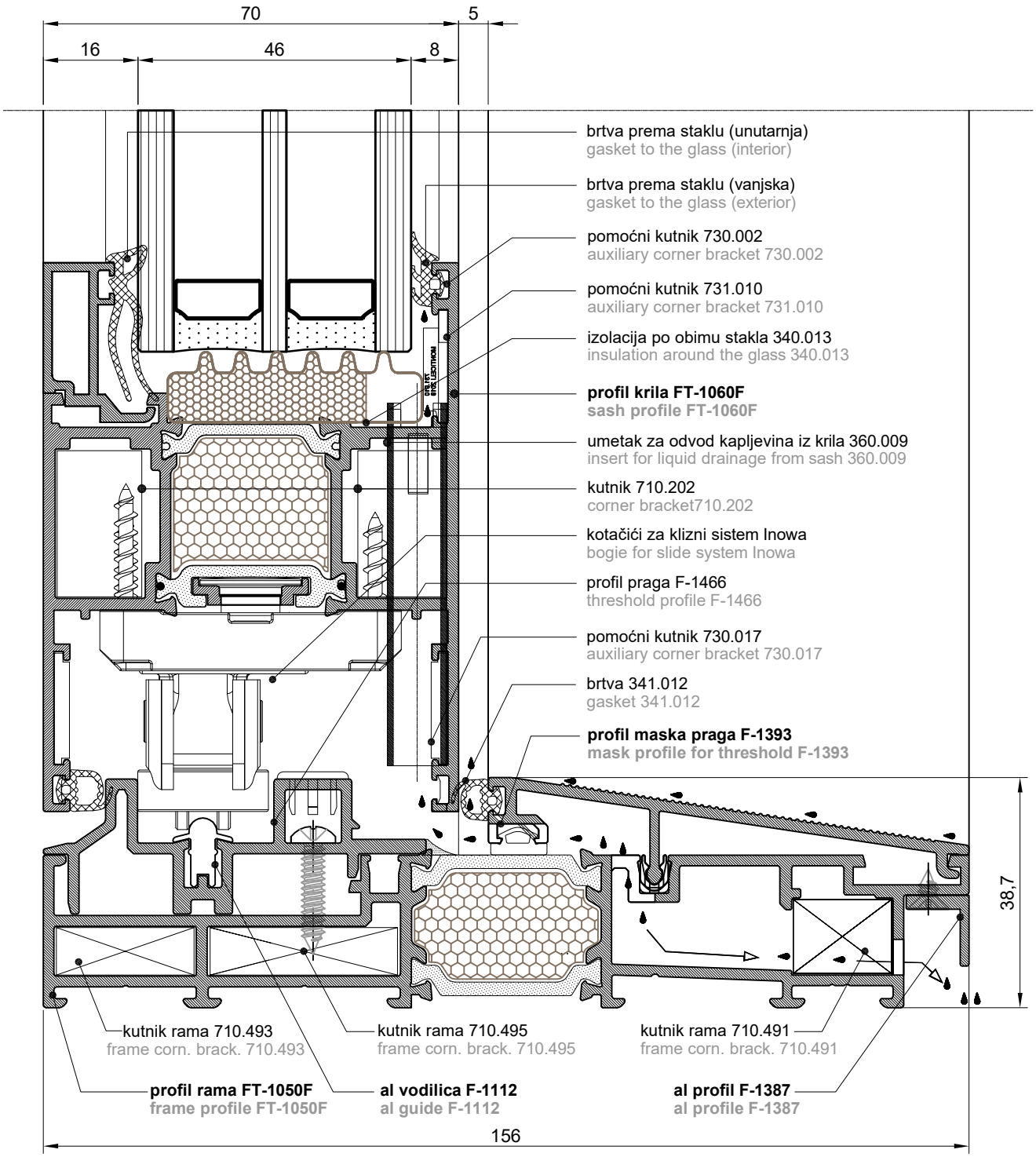
KLIZNA VRATA

SLIDE DOORS

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Značajke sistema
System characteristics


70
5
16
46
8
brtva prema staklu (unutarnja)
gasket to the glass (interior)
brtva prema staklu (vanjska)
gasket to the glass (exterior)
pomoćni kutnik 730.002
auxiliary corner bracket 730.002
pomoćni kutnik 731.010
auxiliary corner bracket 731.010
izolacija po obimu stakla 340.013
insulation around the glass 340.013
profil krila FT-1060F
sash profile FT-1060F
umetak za odvod kapljevina iz krila 360.009
insert for liquid drainage from sash 360.009
kutnik 710.202
corner bracket710.202
kotačići za klizni sistem Inowa
bogie for slide system Inowa
profil praga F-1466
threshold profile F-1466
pomoćni kutnik 730.017
auxiliary corner bracket 730.017
brtva 341.012
gasket 341.012
profil maska praga F-1393
mask profile for threshold F-1393
38,7
kutnik rama 710.493
frame corn. brack. 710.493
kutnik rama 710.495
frame corn. brack. 710.495
kutnik rama 710.491
frame corn. brack. 710.491
profil rama FT-1050F
frame profile FT-1050F
al vodilica F-1112
al guide F-1112
al profil F-1387
al profile F-1387
156

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 Ud=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 Ud=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:

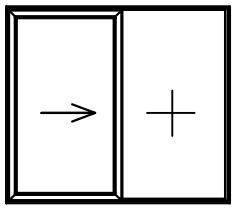
-materijal	EN AW-6060
-masa krila	max.400 kg
-debljina stakla	do 46 mm
-materijal za brtvljenje (EPDM)	DIN 7863
-zrakopropusnost	EN 12207 (klasa 4)
-vodonepropusnost	EN 12208 (klasa E1050)
-otpornost na udar vjetra	EN 12210 (klasa C5/B5)
-proračun Ud koeficijenta	DIN EN ISO 10077-2
-površinska obrada	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 permeabilty	EN 12207 (klasa 4)
-water tightness	EN 12208 (klasa E1050)
-wind resistance	EN 12210 (klasa C5/B5)
-Ud 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 againist 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.

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

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.

Ve-Prü-2087-en 01.06.2016

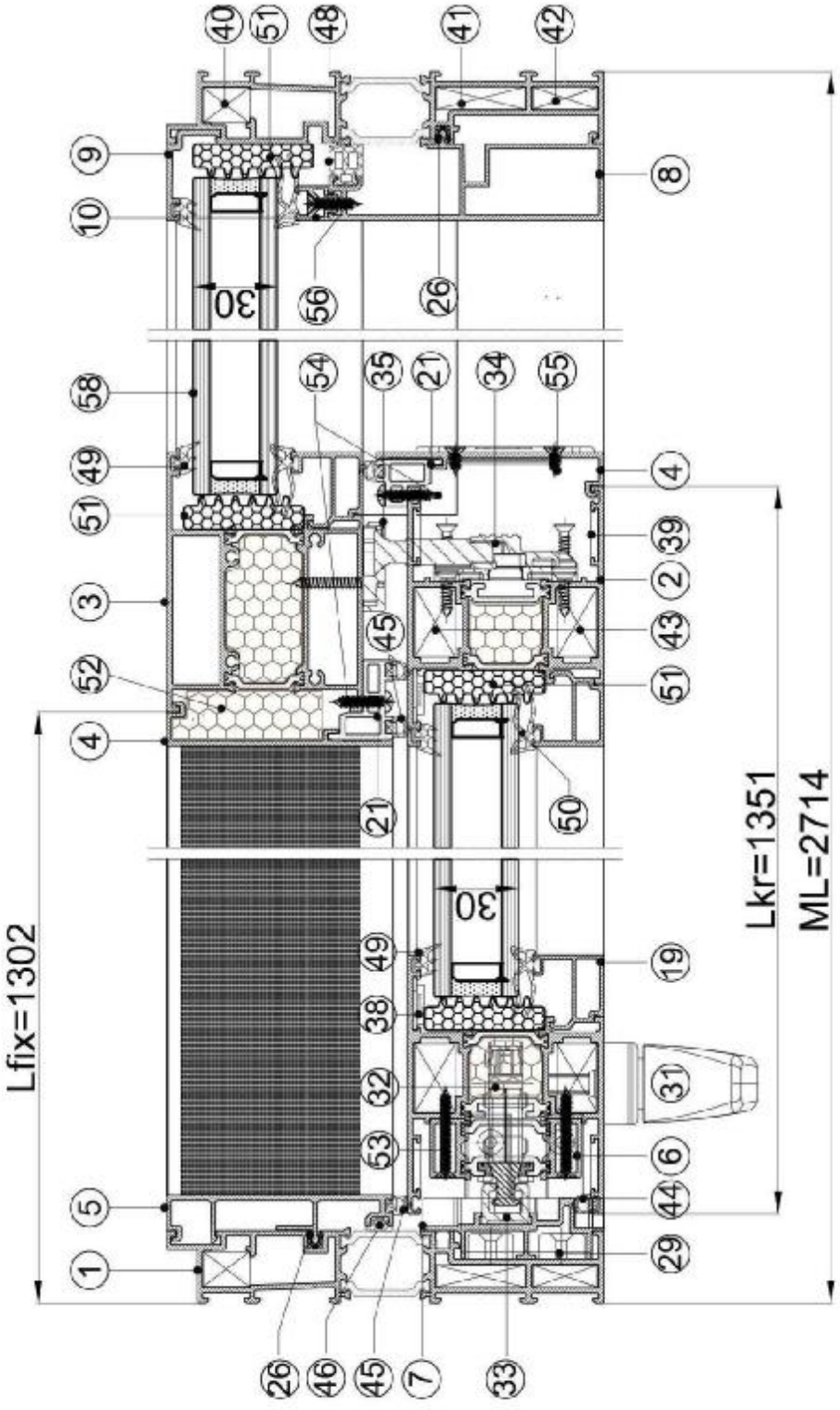
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Inspektion – EN ISO/IEC 17020
Zertifizierung Produkte – EN ISO/IEC 17065
Zertifizierung Managementsysteme – EN ISO/IEC 17021

Annex 1: Representation of product/test specimen
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)

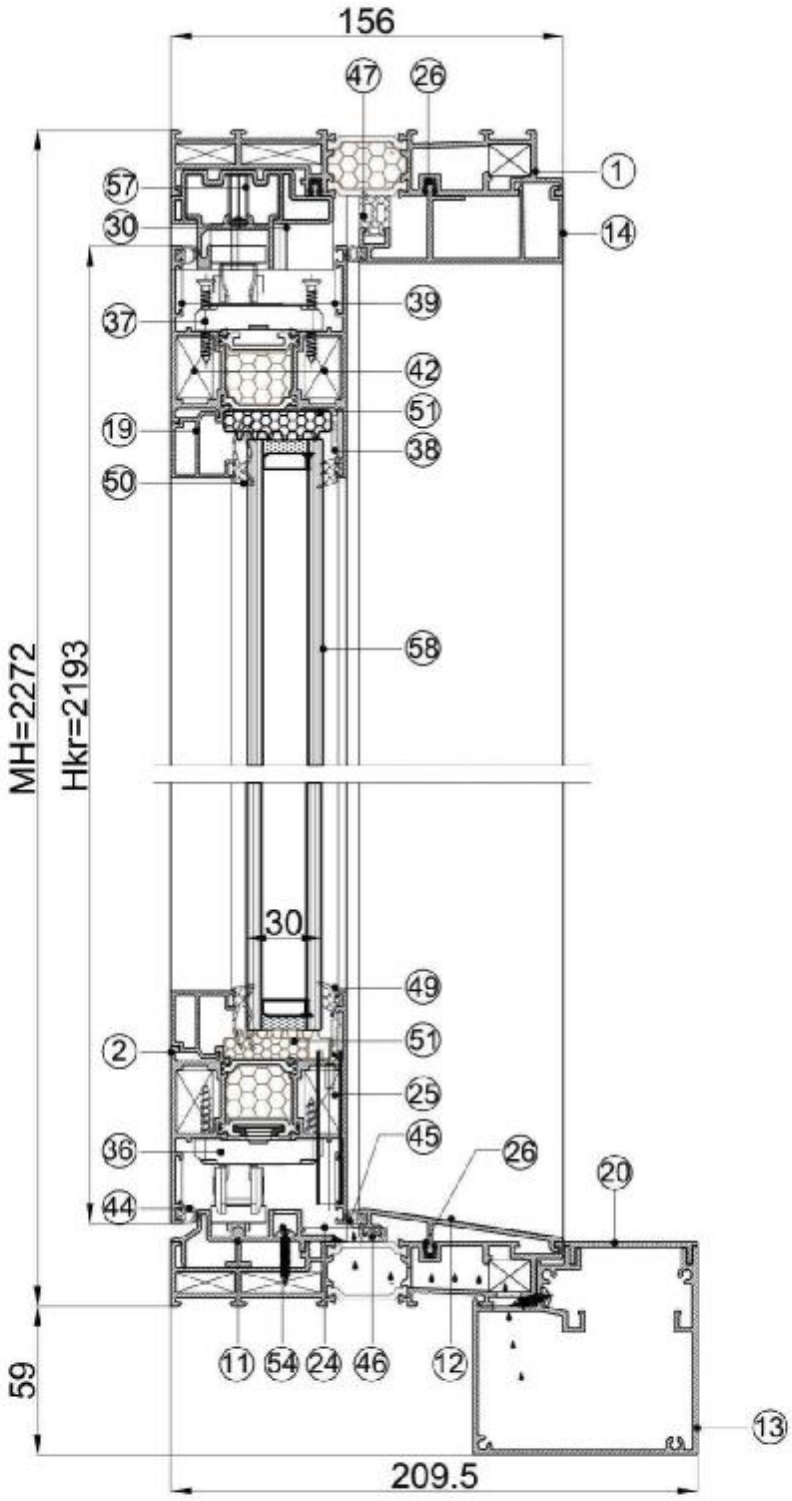
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Drawing 2
Horizontal section

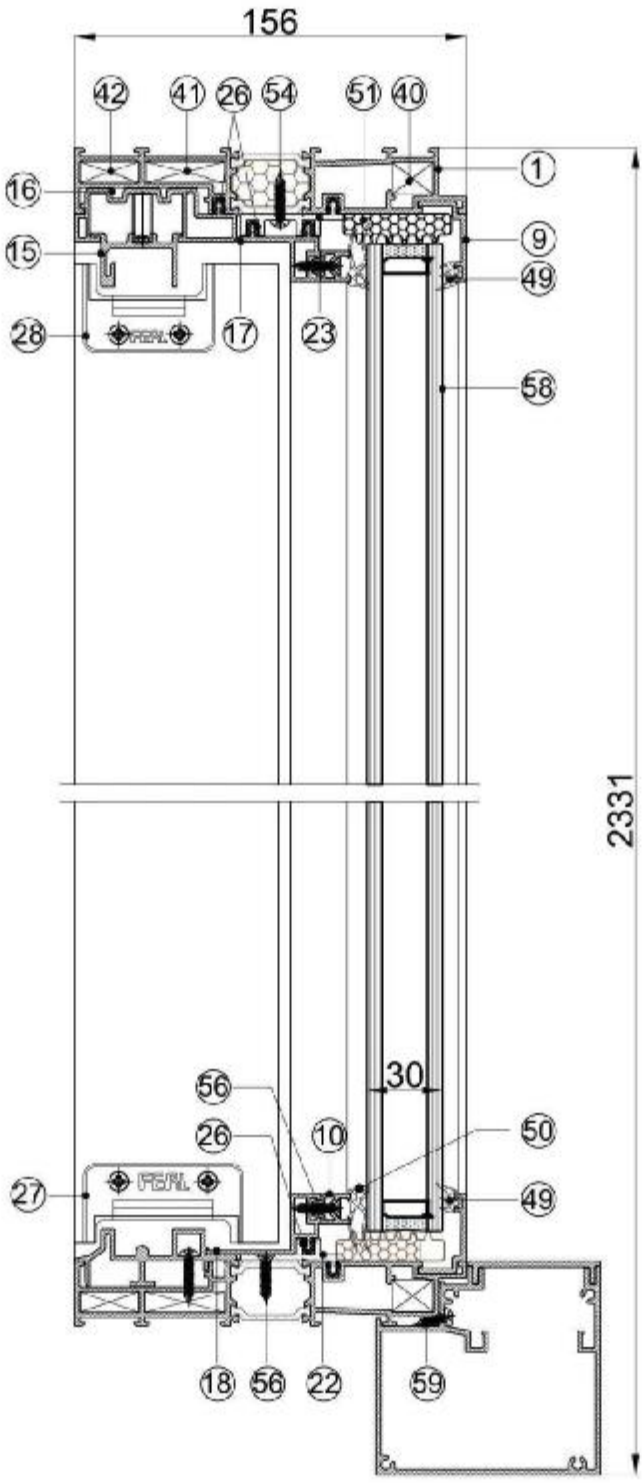
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Test Report 16-001814-PR04 (PB-A01-02-en-01) dated 02.09.2016
Client: FEAL d.o.o., 88220 Siroki Brijeg (Bosnia-Herzegovina)

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Drawing 3
Vertical section - sash

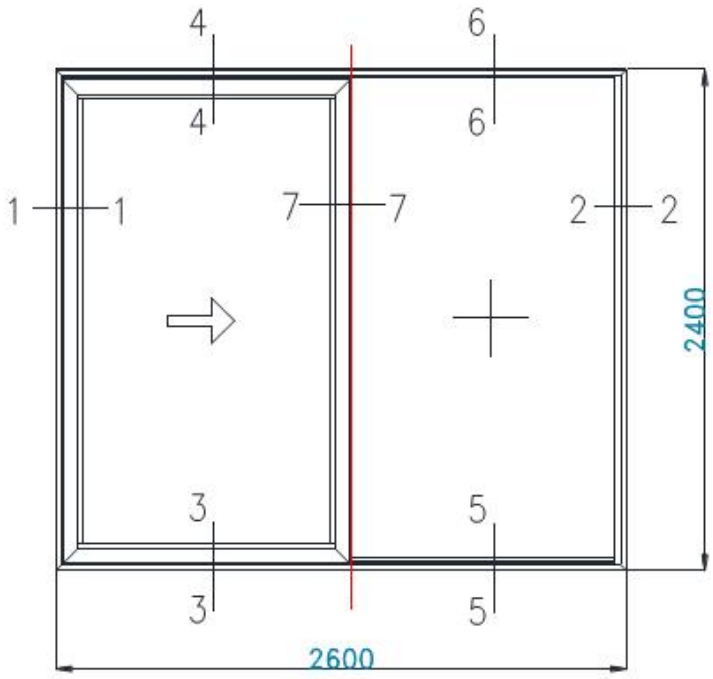
Annex 1: Representation of product/test specimen
Evidence of Performance
Air permeability, Watertightness, Resistance to wind load
Test Report 16-001814-PR04 (PB-A01-02-en-01) dated 02.09.2016
Client: FEAL d.o.o., 88220 Siroki Brijeg (Bosnia-Herzegovina)



Drawing 4
Vertical section – fixed light

Toplotni proračun prijelaza topline -Uw

Serija:	Inowa	Opis:	Klizno sa integriranim fiksnim 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)

ROSENHEIM

Auftraggeber	FEAL d.o.o. Trnska cesta 146 88220 Siroki Brijeg Bosnia-Herzegovina
Produkt	Thermisch getrenntes Metallprofil eines Schiebesystems Profilkombination: Flügelrahmen-Blendrahmen
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
Besonderheiten	-

Ergebnis

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

U_f = 2,9 W/(m²K)

ift Rosenheim
24.06.2016

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

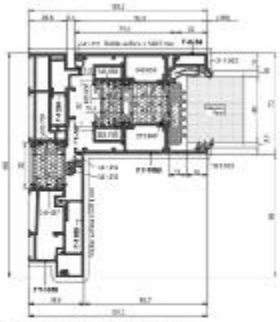
Maurice Mayer, Dipl.-Ing. (FH)
Prüfingenieur
Bauphysik

Grundlagen *)

EN ISO 10077-2:2012-02
SG 06-verpflichtend
NB-CPD/SG06/11/083 2011-09

*) und entsprechende nationale Fassungen (z.B. DIN EN)

Darstellung



Verwendungshinweise

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

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-Prüfdokumentationen". Das Deckblatt kann als Kurzfassung verwendet werden.

Inhalt

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

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Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body 0757
Construction Products Regulation (EU) No 305/2011
Accredited by the Bavarian State Ministry of Building and Transport

DAkkS
Deutsche Akkreditierungsstelle
D-PL-13349-01-00

Berechnung des Wärmedurchgangskoeffizienten U_f

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

Protokoll 16-000166-PR17

ift ROSENHEIM

Protokollinhaber
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Trnska cesta 146
88220 Siroki Brijeg

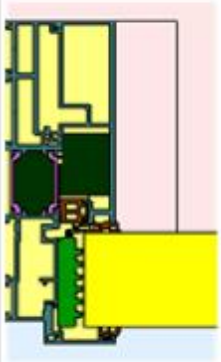
Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

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
	Polyamide 6.6 with 25 % Glass Fibers	0,300	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
	Aluminium alloy - anodised - painted - powder coated	160	0.9



Wärmedurchgangskoeffizient

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

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
1.9.2016

Manuel Demel
ift Rosenheim
1.9.2016

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Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body 0757
PUZ-Stelle: BAY 18

Berechnung des Wärmedurchgangskoeffizienten U_f

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

Protokoll 16-000166-PR20

ift ROSENHEIM

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 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
	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
	XPE	0,038	0,9
	XPS (Thickness up to 60 mm)	0,034	0,9



Wärmedurchgangskoeffizient

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

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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Notified Body 0757
PÜZ-Stelle: BAY 18

Berechnung des Wärmedurchgangskoeffizienten U_f

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

Protokoll 16-000166-PR21

ift ROSENHEIM

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 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
	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
	Aluminium alloy - anodised - painted - powder coated	160	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

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

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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8.9.2016

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

Notified Body 0757
PÜZ-Stelle: BAY 18

Berechnung des Wärmedurchgangskoeffizienten U_f

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

Protokoll 16-000166-PR19

ift ROSENHEIM

Protokollinhaber
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88220 Siroki Brijeg

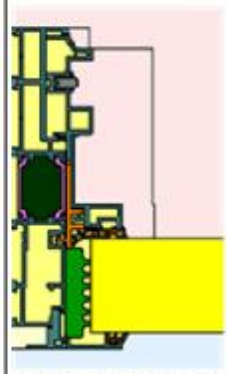
Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

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 Wärmodurchgangskoeffizienten
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

$U_f = 3{,}9$ W/(m² · 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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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

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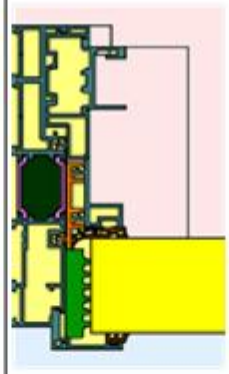
Produkt
Blendrahmen Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 52.7
Blendrahmen
Profilquerschnitt, Dicke in mm: 156
Ersatzpaneel
Dicke in mm: 46
Einstand in mm: 15

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

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

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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Zertifizierung Managementsysteme – EN ISO/IEC 17021

Notified Body 0757
PCZ-Stelle: BAY 18

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-11349-01-00

Berechnung des Wärmedurchgangskoeffizienten U_f

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

Protokoll 16-000166-PR22

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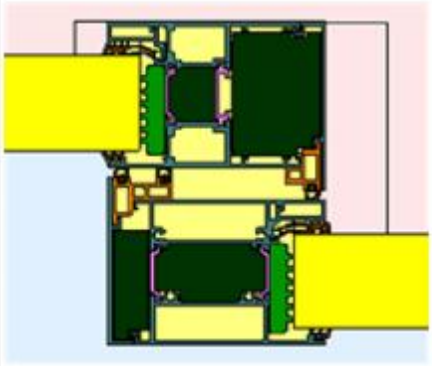
Produkt
Flügelrahmen-Flügelrahmen Schiebesystem Metall
Bezeichnung
Inowa
Ansichtsbreite B in mm: 104.5
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Flügelrahmen
Profilquerschnitt, Dicke in mm: 70
Ersatzpaneel
Einstand in mm: 15
Dicke in mm: 46

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
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	Polyamide 6.6 with 25 % Glass Fibers	0,300	0,9
	Ethylene Propylene Diene Monomer (EPDM)	0,250	0,9
	XPE	0,038	0,9
	XPS (Thickness up to 60 mm)	0,034	0,9



Wärmedurchgangskoeffizient

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

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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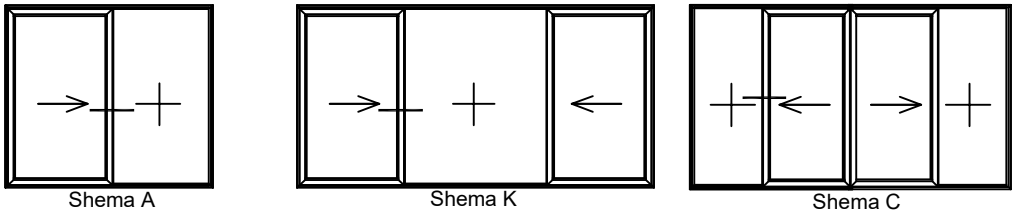
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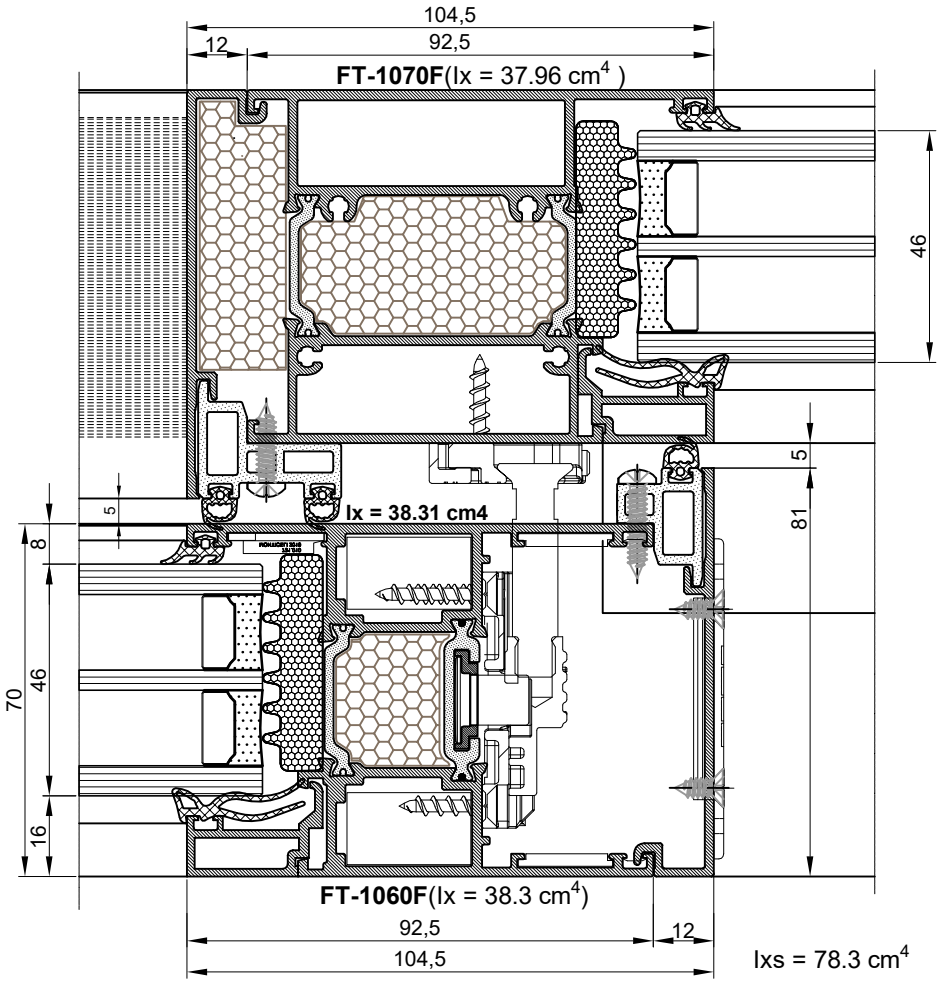
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Notified Body 0757
PÜZ-Stelle: BAY 10

Dijagram veličina
Dimension chart

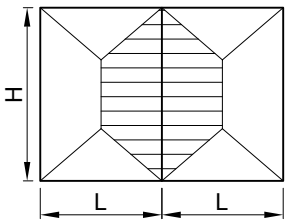




Ixs = 78.3 cm^4

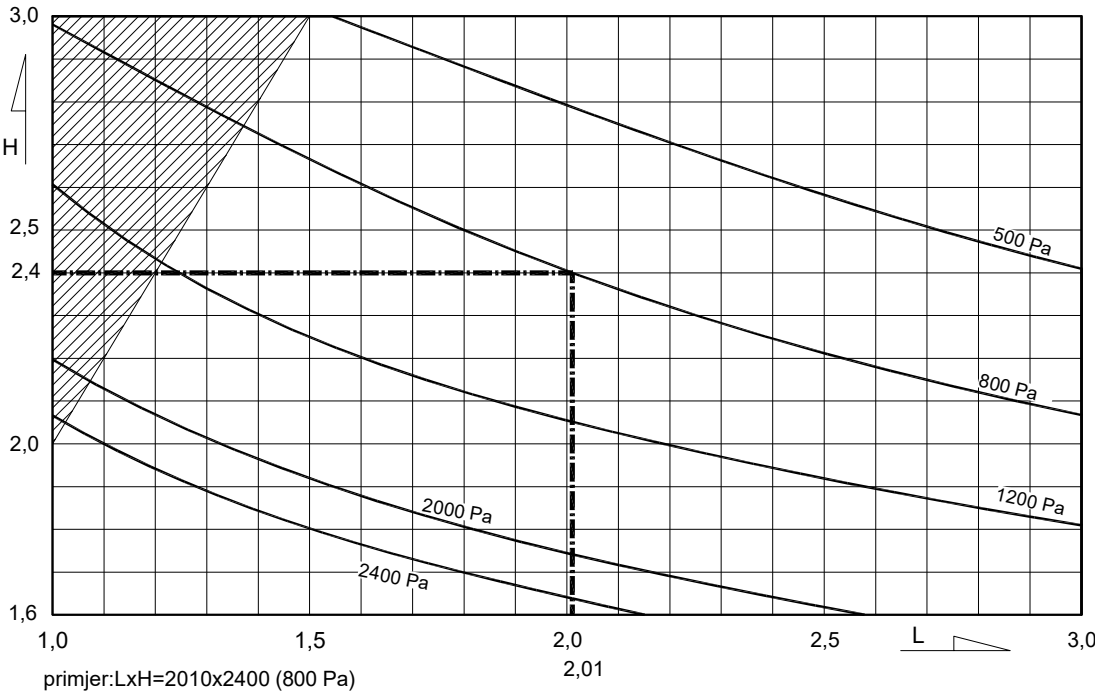
Max. omjer visine i širine krila
H:L≤ 2.5
Max. sash height/width ratio
H:L≤ 2.5

Nije dopušteno
Not allowed

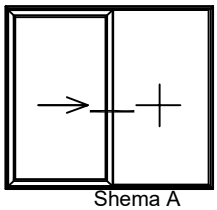


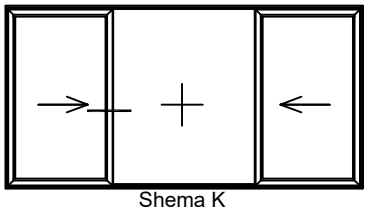
H= Visina krila
H= Sash height
L= Širina krila
L= Sash weight

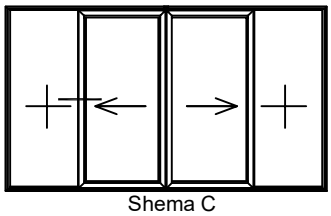
500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa

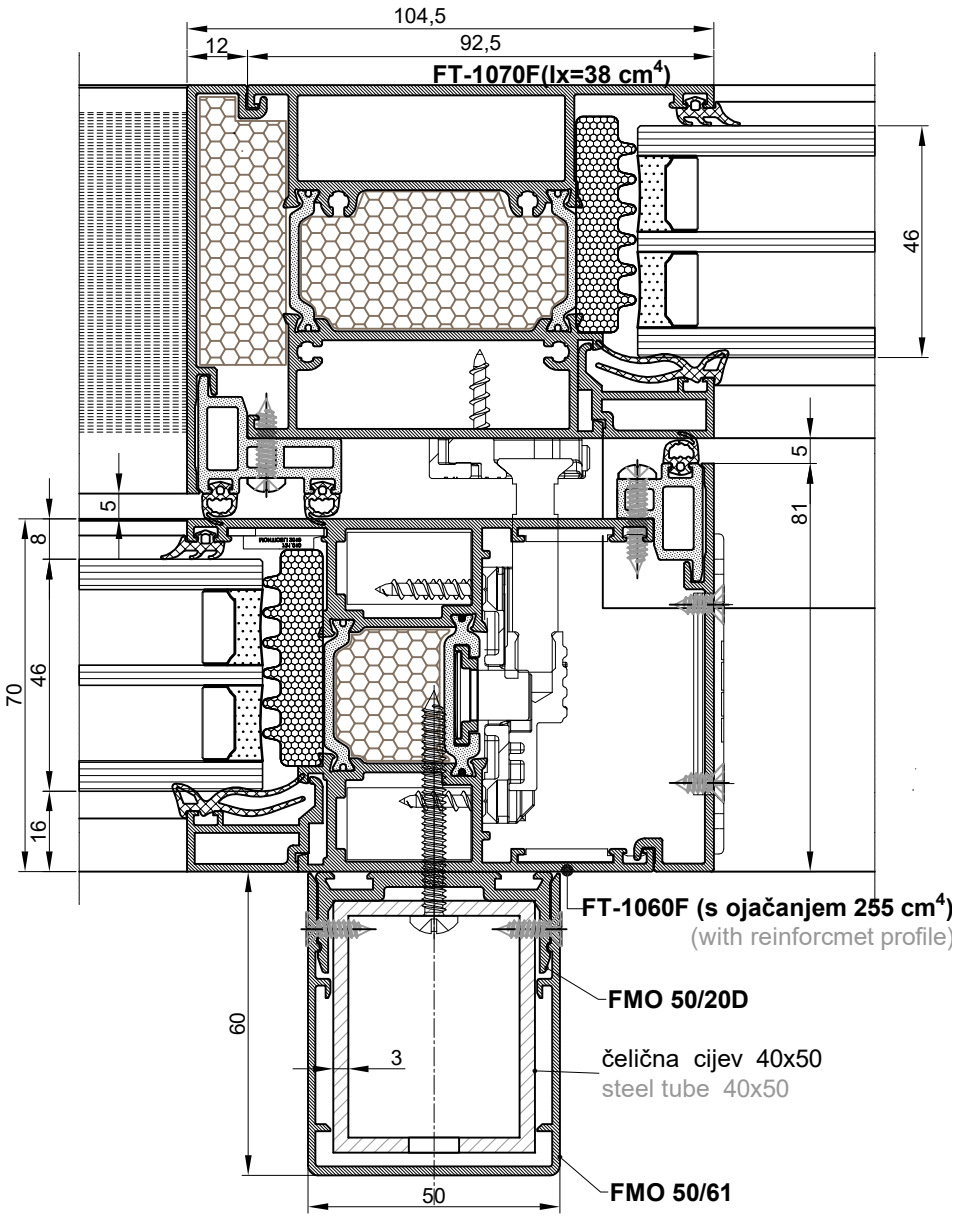


primjer:LxH=2010x2400 (800 Pa)
example:LxH=2010x2400 (800 Pa)


Shema A


Shema K

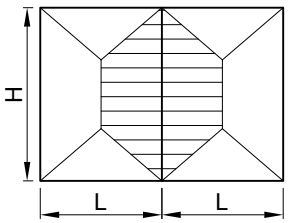

Shema C



Ukupan Ix = 293 cm^4

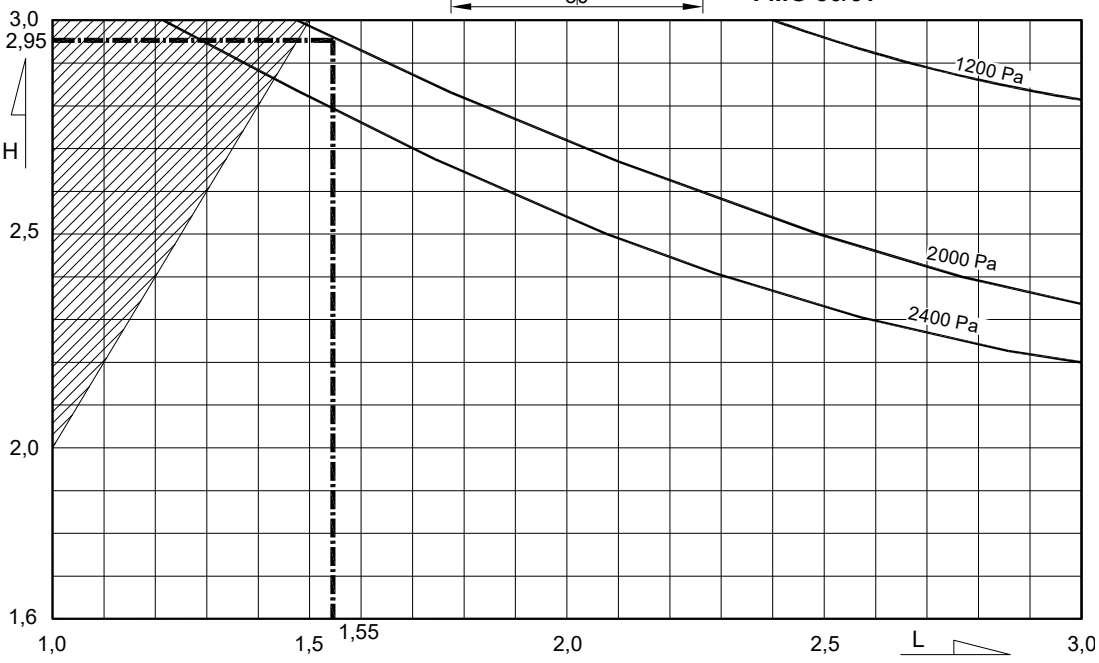
Max. omjer visine
i širine krila
H:L≤ 2.5
Max. sash
height/width ratio
H:L≤ 2.5

Nije dopušteno
Not allowed

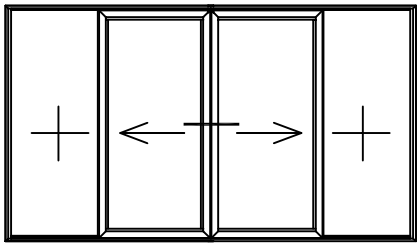


H= Visina krila
H= Sash height
L= Širina krila
L= Sash weight

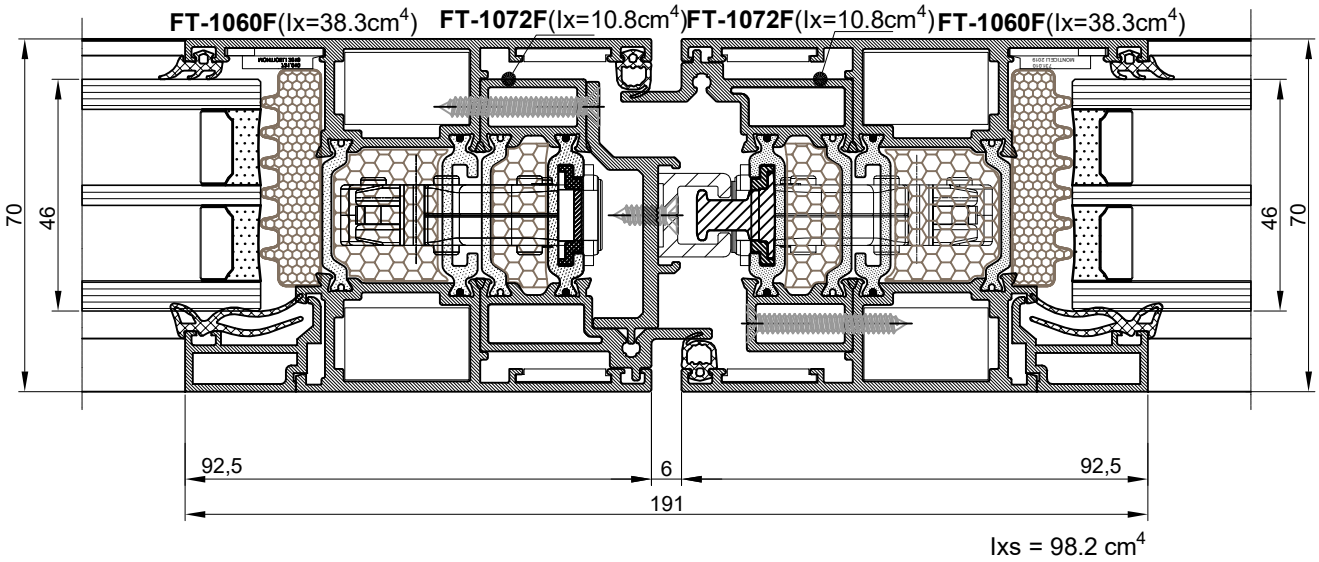
500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa



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



Shema C

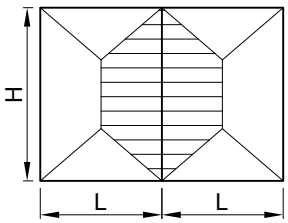


Ixs = 98.2 cm^4

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

Max. sash height/width ratio
H:L≤ 2.5

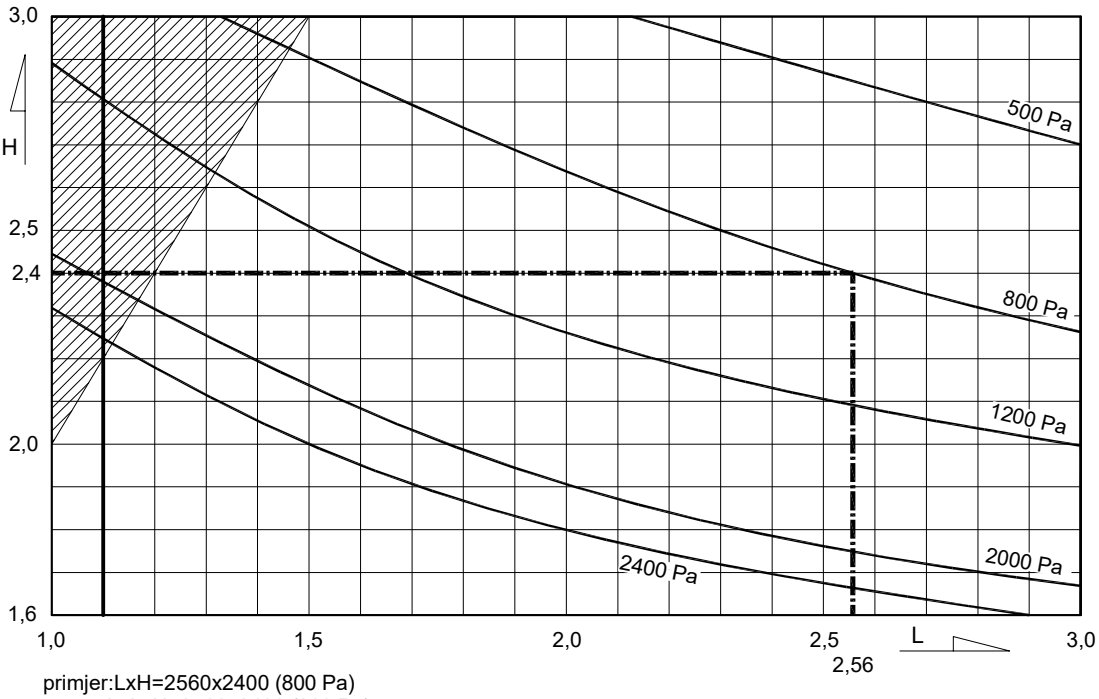
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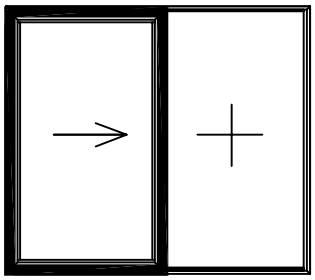
H= Visina krila
H= Sash height

L= Širina krila
L= Sash weight

500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa



primjer:LxH=2560x2400 (800 Pa)
example:LxH=2560x2400 (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/m^2

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

1 mm/m^2 debljine stakla =2.5 kg

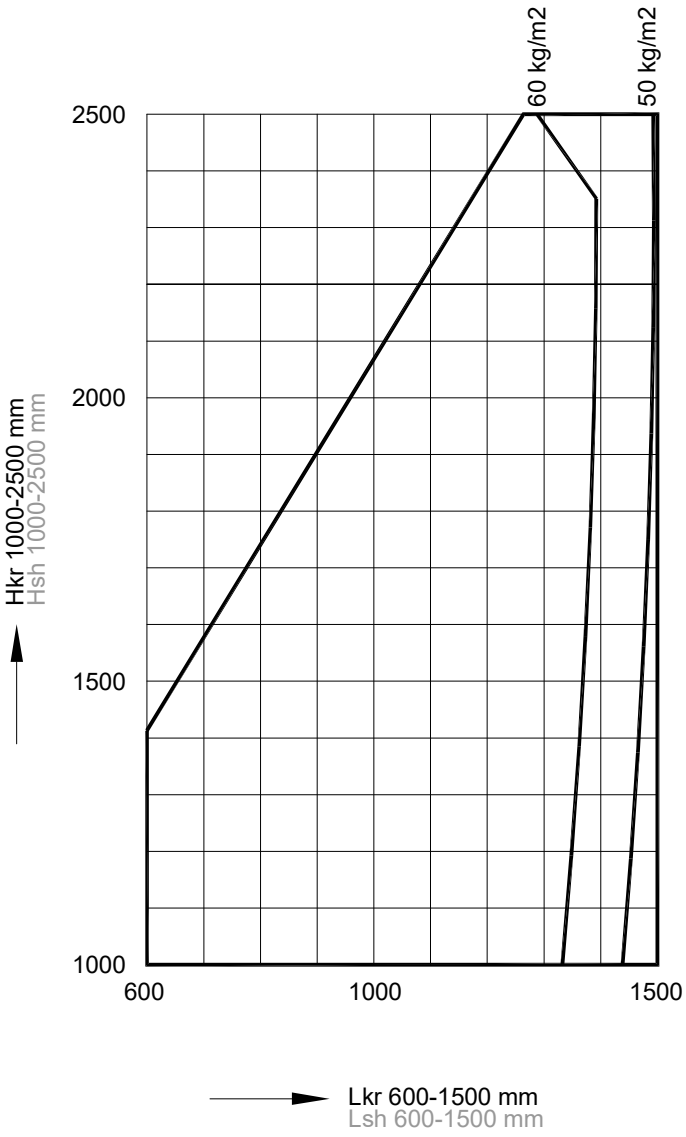
-Hardware load capacity chart depending on sash weight

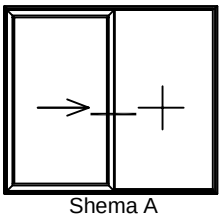
Sash width Lsh ..... 600 -1500 mm
Sash height Hsh ..... 1000-2500 mm
Sash weight ..... max.200 kg

Glass weight ..... max.60 kg/m^2

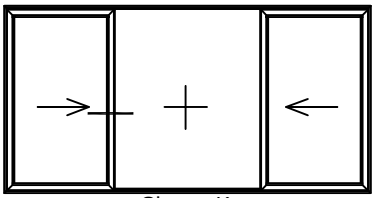
Sash height Hsh : Sash width Lsh = max. 2:1

1 mm/m^2 glass thickness =2.5 kg

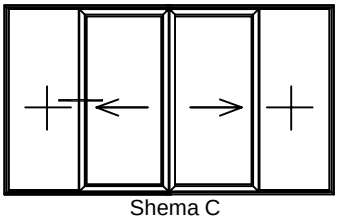




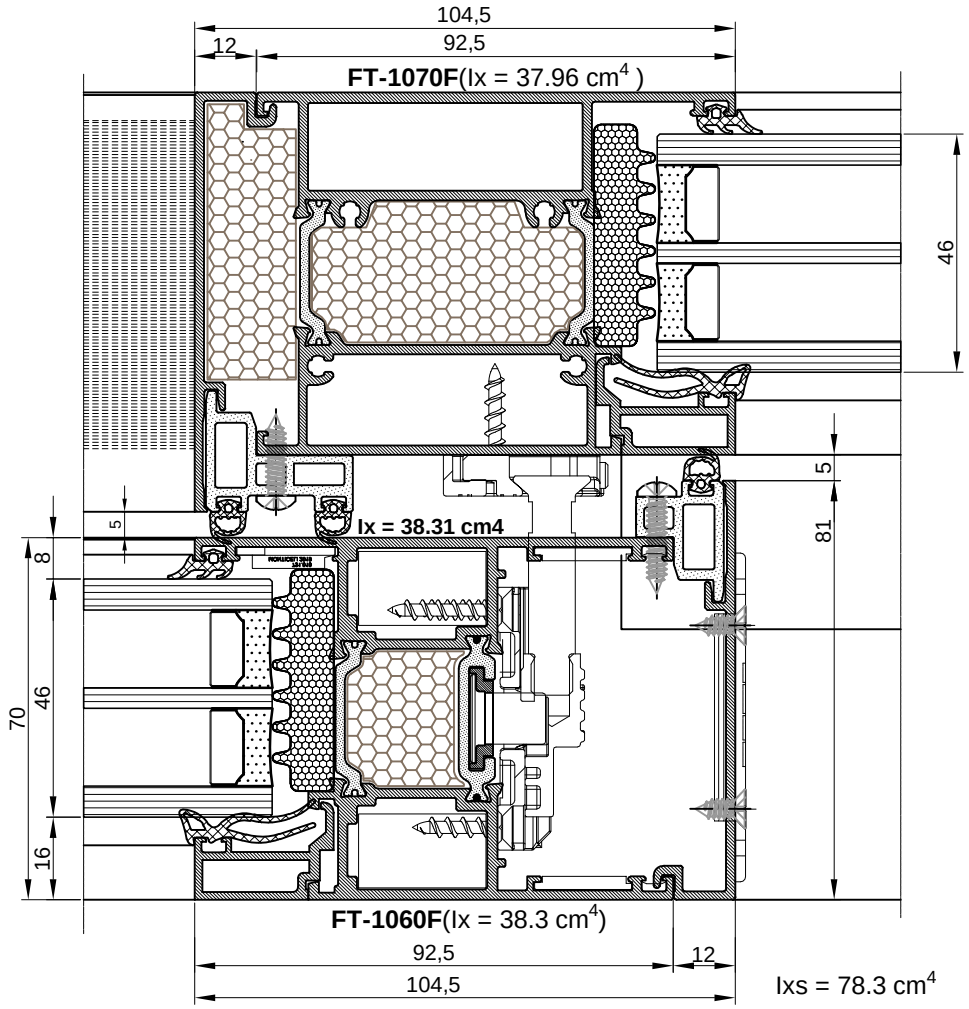
Shema A



Shema K



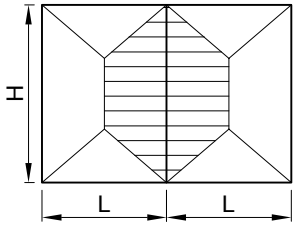
Shema C



Max. omjer visine i širine krila
H:L≤ 2

Max. sash height/width ratio
H:L≤ 2

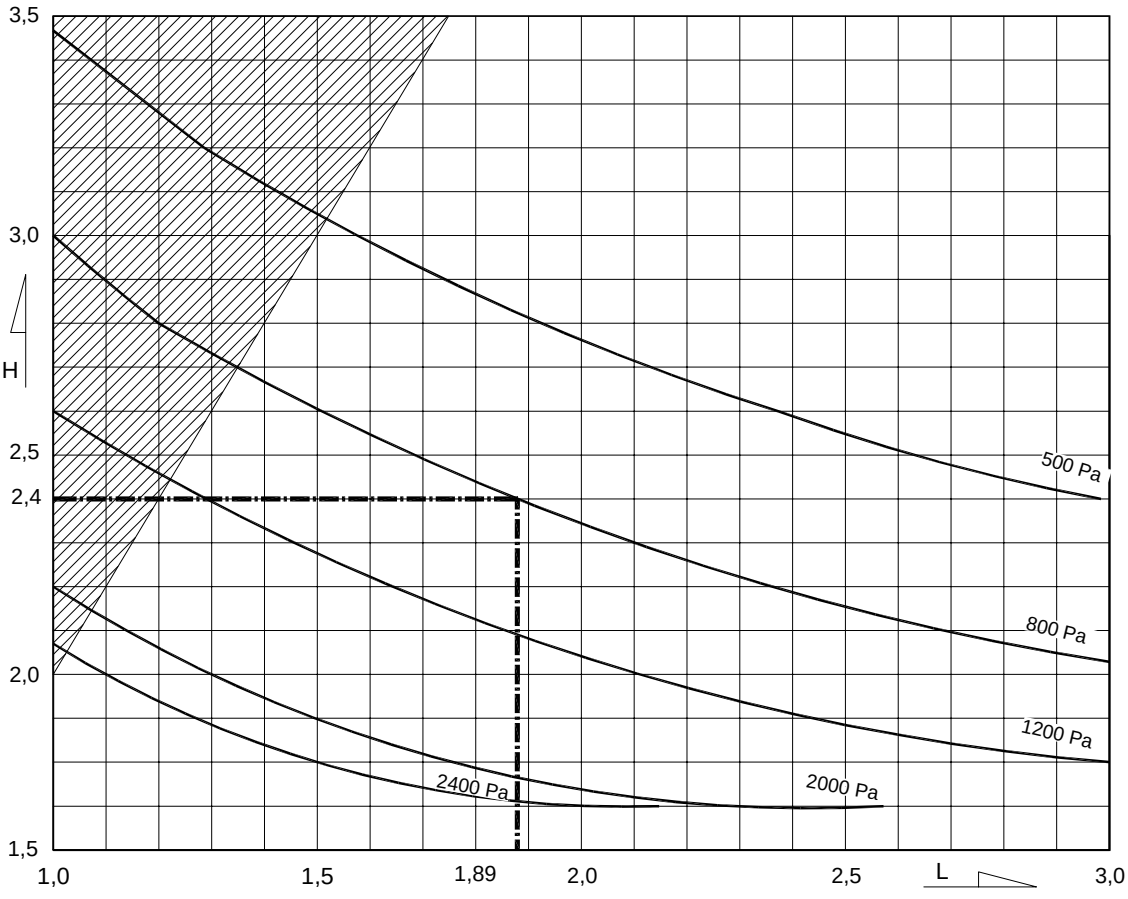
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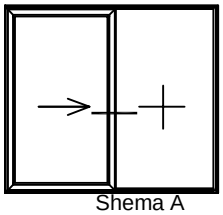
H= Visina krila
H= Sash height

L= Širina krila
L= Sash weight

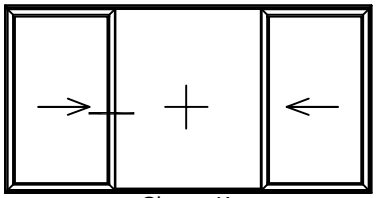
500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa



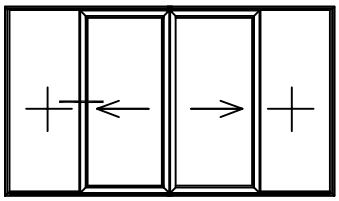
primjer:LxH=1890x2400 (800 Pa)
example:LxH=2010x2400 (800 Pa)



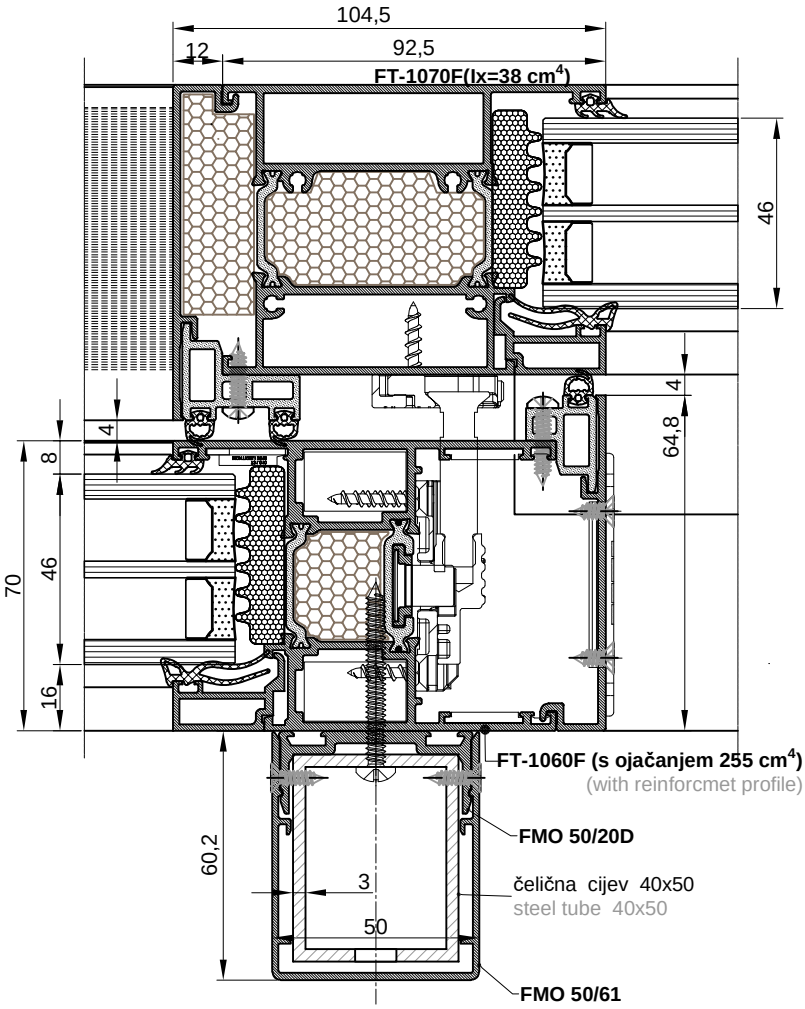
Shema A



Shema K



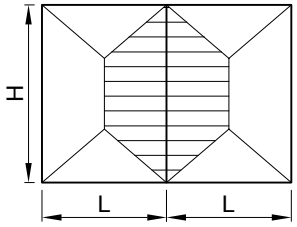
Shema C



Ukupan Ix = 293 cm^4

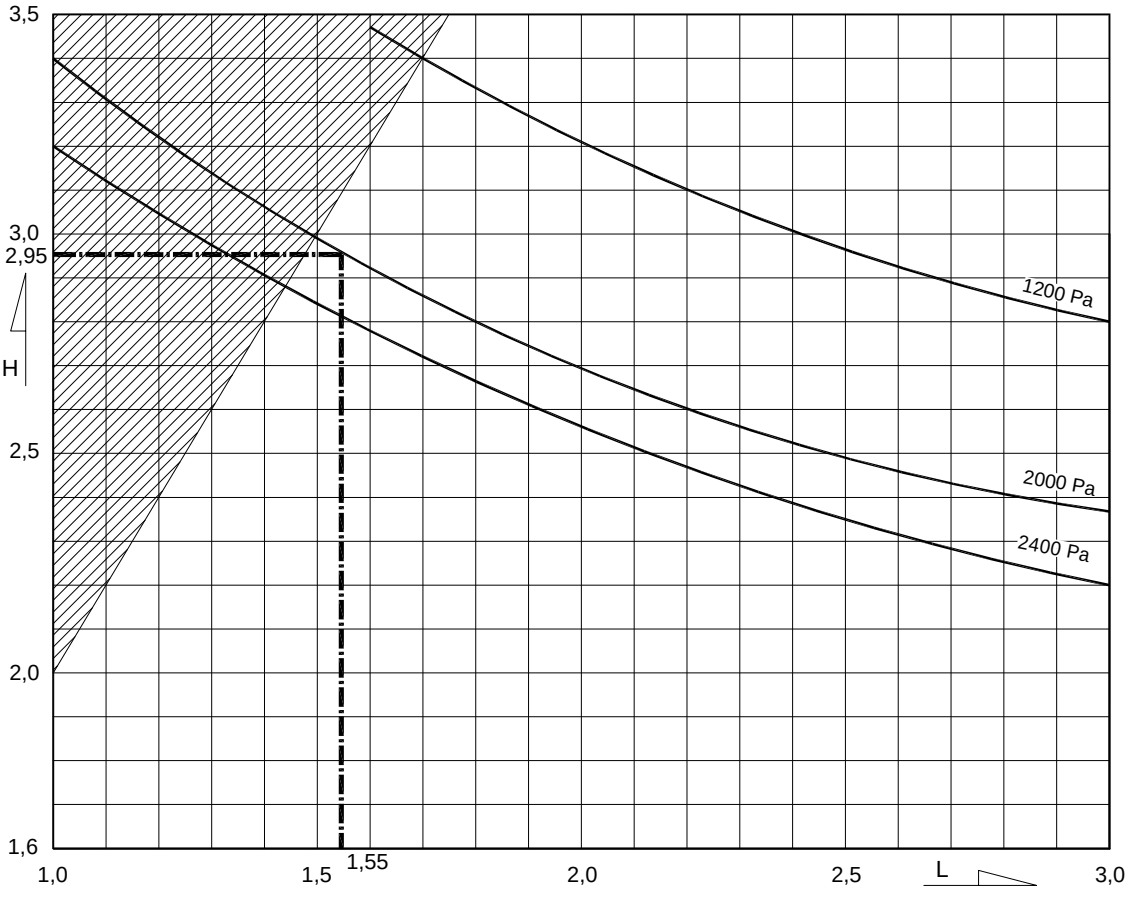
Max. omjer visine
i širine krila
H:L≤ 2.5
Max. sash
height/width ratio
H:L≤ 2.5

Nije dopušteno
Not allowed

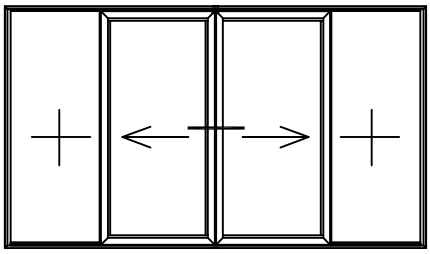


H= Visina krila
H= Sash height
L= Širina krila
L= Sash weight

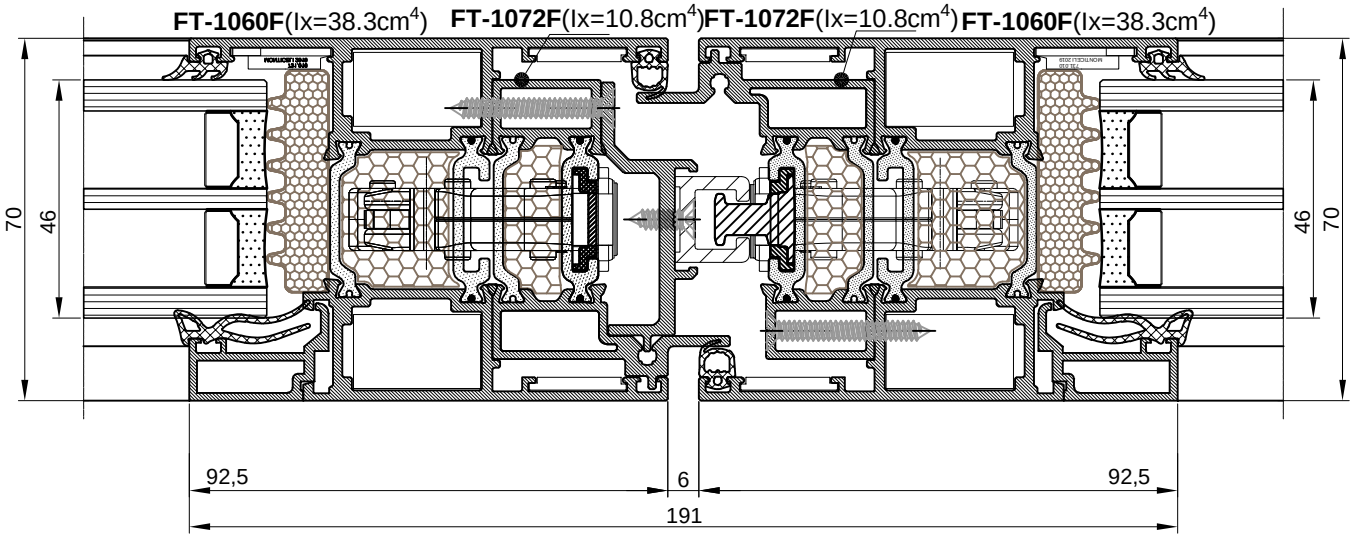
500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa



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



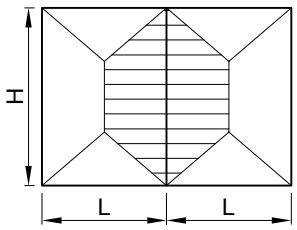
Shema C



Ixs = 98.2 cm^4

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

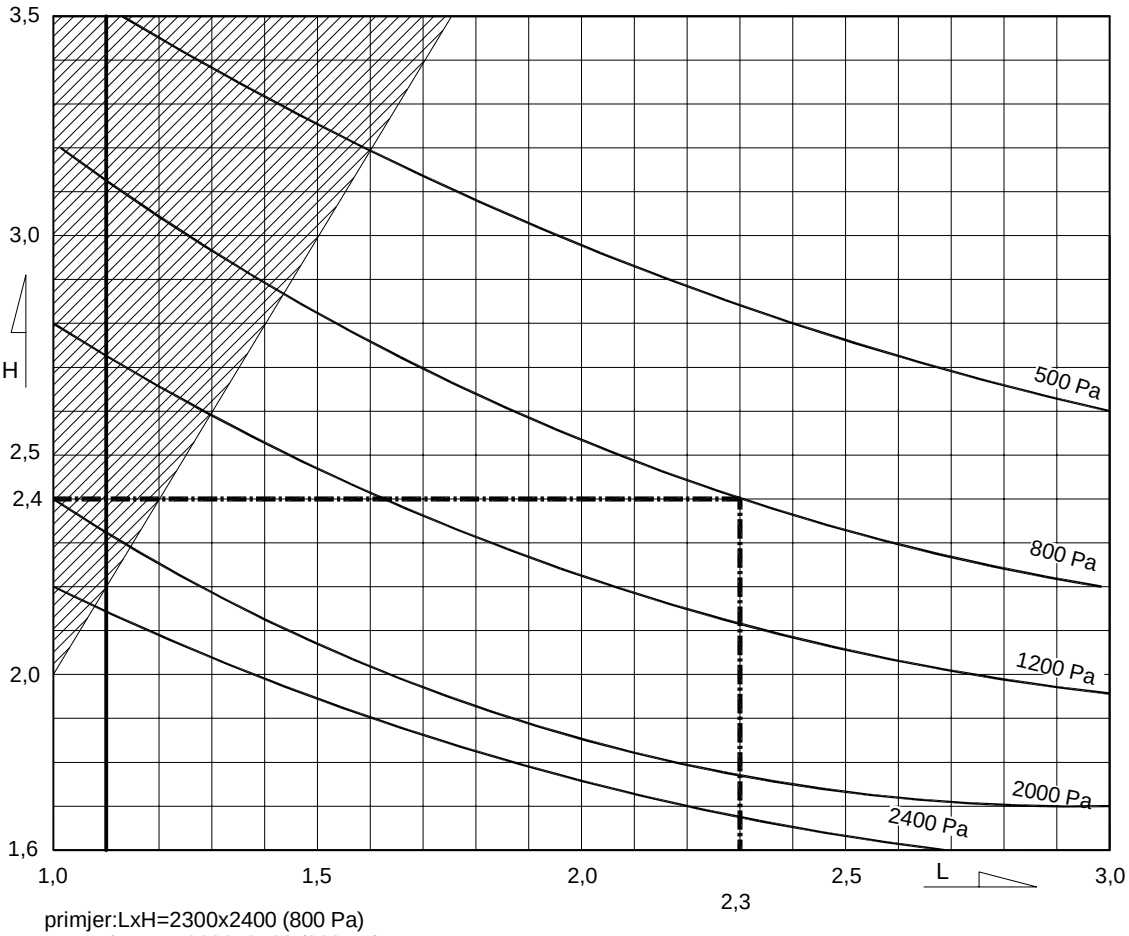
Nije dopušteno
Not allowed



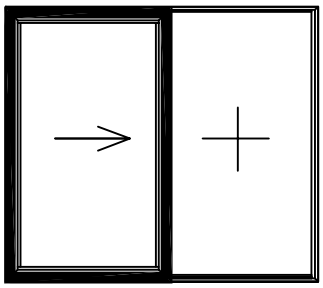
H= Visina krila
H= Sash height

L= Širina krila
L= Sash weight

500 Pa
800 Pa
1200 Pa
2000 Pa
2400 Pa



primjer:LxH=2300x2400 (800 Pa)
example:LxH=2300x2400 (800 Pa)



-Dijagram nosivosti okova ovisno o težini krila

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

Težina stakla ..... max.80 kg/m^2

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

1 mm/m^2 debljine stakla =2.5 kg

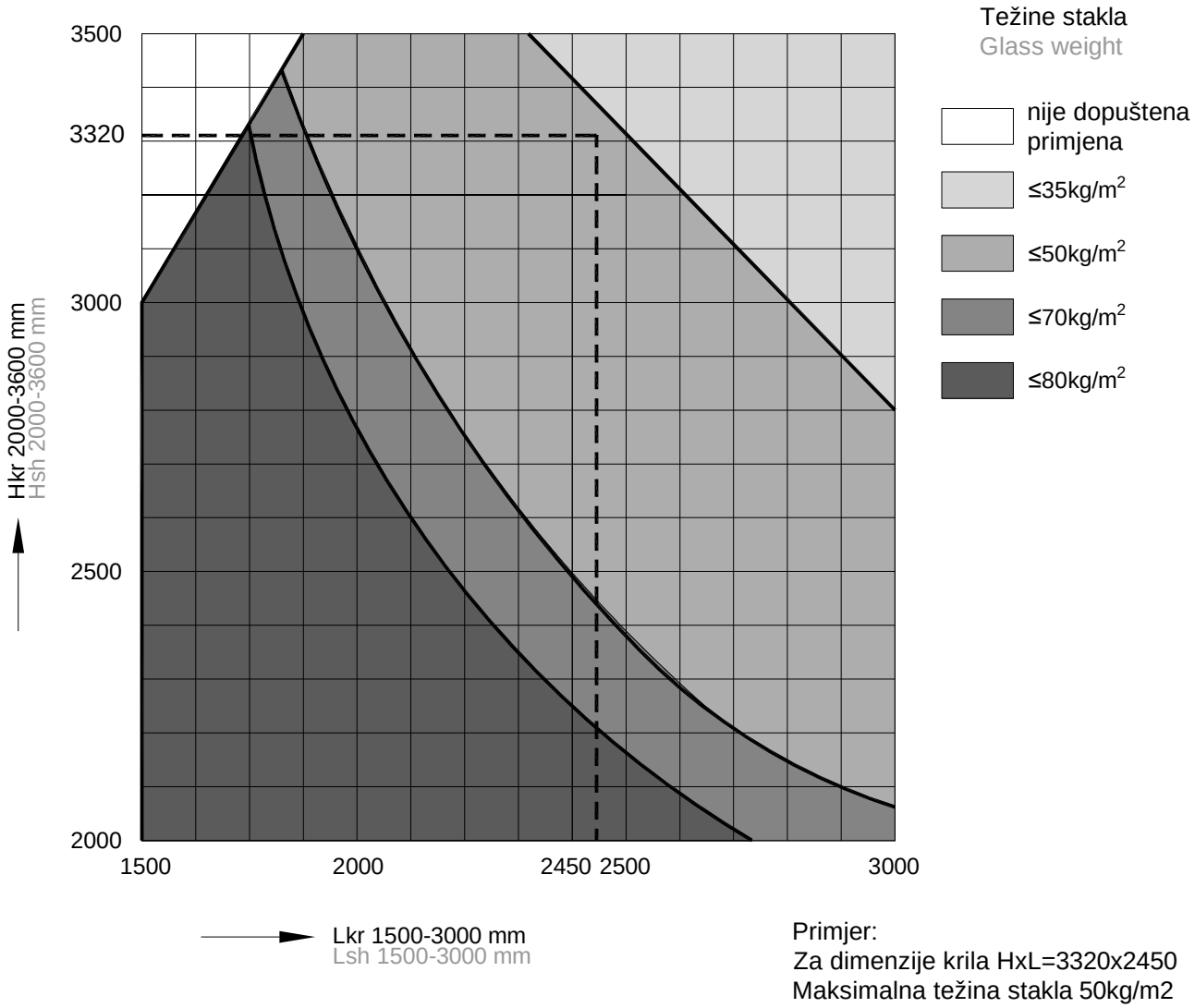
-Hardware load capacity chart depending on sash weight

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

Glass weight ..... max.80 kg/m^2

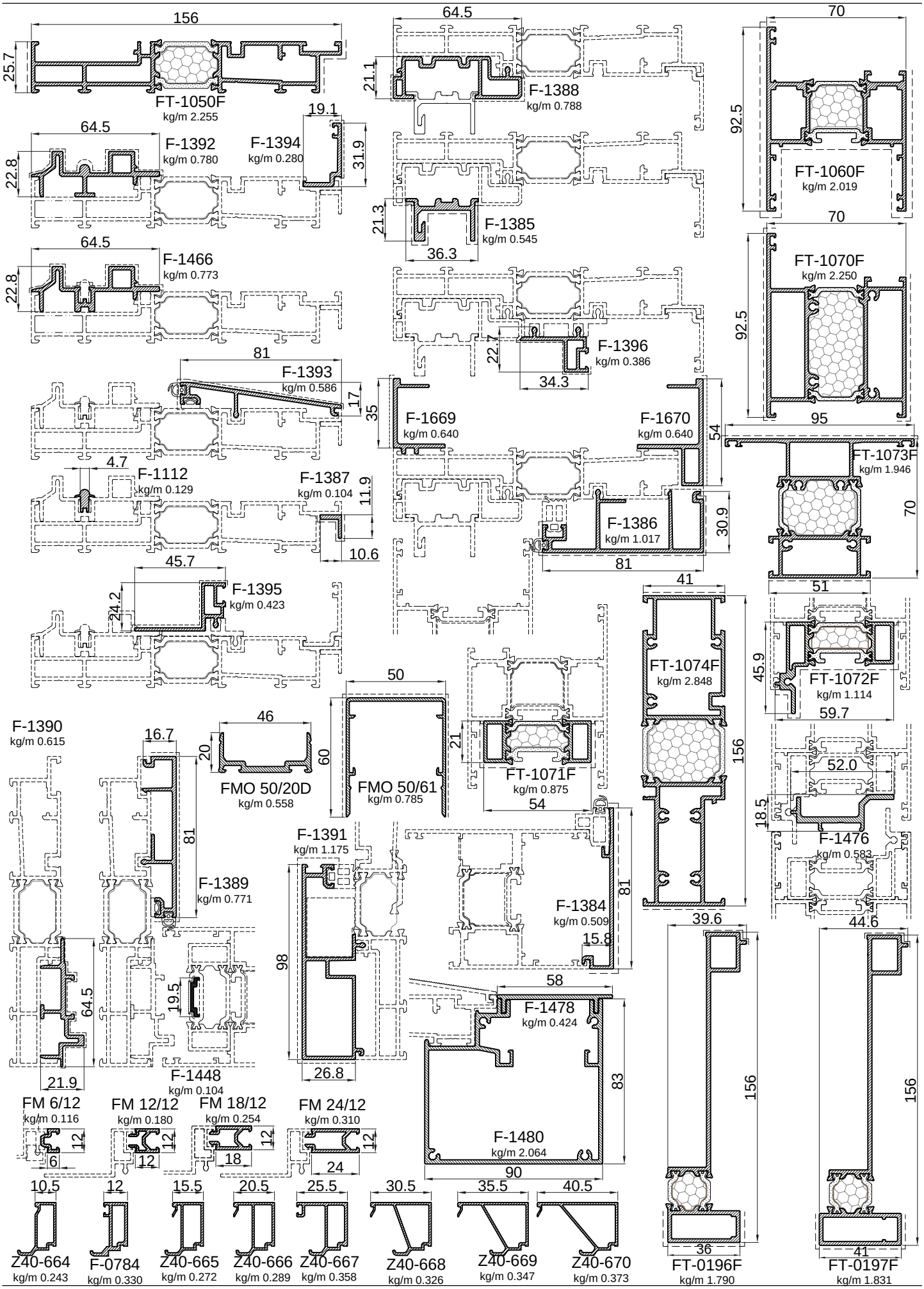
Sash height Hsh : Sash width Lsh = max. 2:1

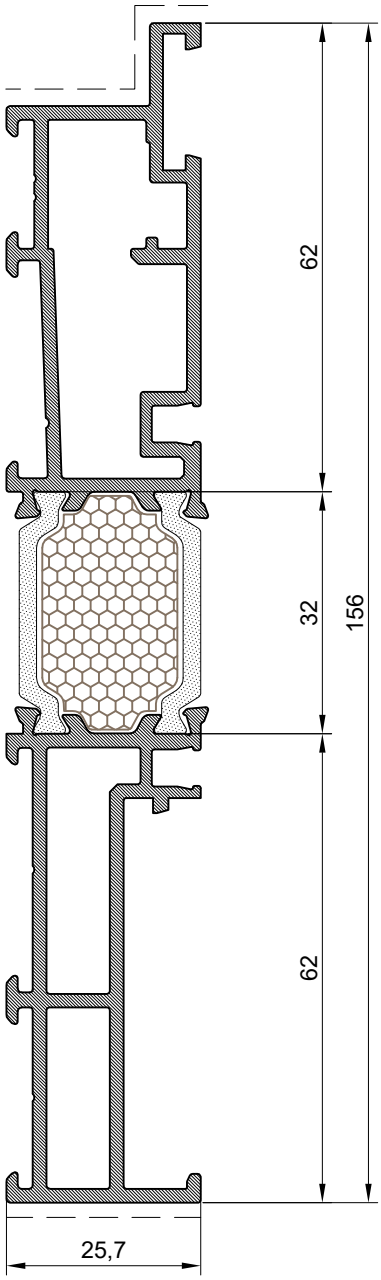
1 mm/m^2 glass thickness =2.5 kg



Primjer:
Za dimenzije krila HxL=3320x2450
Maksimalna težina stakla 50kg/m2

Profili
Profiles

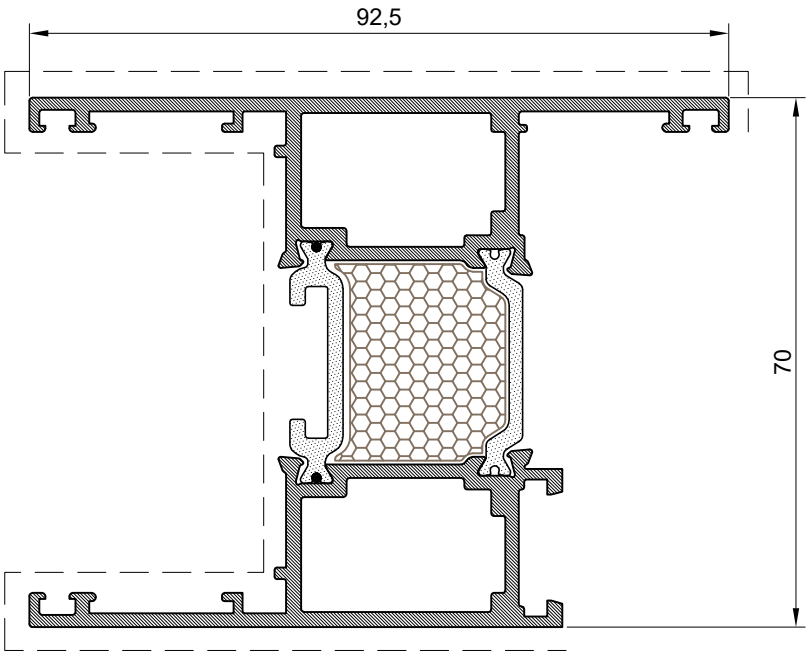

FT-1050F
kg/m 2.255
F-1392
kg/m 0.780
F-1394
kg/m 0.280
F-1388
kg/m 0.788
F-1385
kg/m 0.545
F-1466
kg/m 0.773
F-1396
kg/m 0.386
F-1393
kg/m 0.586
F-1669
kg/m 0.640
F-1670
kg/m 0.640
F-1112
kg/m 0.129
F-1387
kg/m 0.104
F-1386
kg/m 1.017
F-1395
kg/m 0.423
FT-1060F
kg/m 2.019
FT-1070F
kg/m 2.250
FT-1073F
kg/m 1.946
FT-1074F
kg/m 2.848
FT-1072F
kg/m 1.114
FT-1071F
kg/m 0.875
FMO 50/20D
kg/m 0.558
FMO 50/61
kg/m 0.785
F-1390
kg/m 0.615
F-1389
kg/m 0.771
F-1391
kg/m 1.175
F-1384
kg/m 0.509
F-1476
kg/m 0.583
F-1478
kg/m 0.424
F-1480
kg/m 2.064
F-1448
kg/m 0.104
FM 6/12
kg/m 0.116
FM 12/12
kg/m 0.180
FM 18/12
kg/m 0.254
FM 24/12
kg/m 0.310
Z40-664
kg/m 0.243
F-0784
kg/m 0.330
Z40-665
kg/m 0.272
Z40-666
kg/m 0.289
Z40-667
kg/m 0.358
Z40-668
kg/m 0.326
Z40-669
kg/m 0.347
Z40-670
kg/m 0.373
FT-0196F
kg/m 1.790
FT-0197F
kg/m 1.831



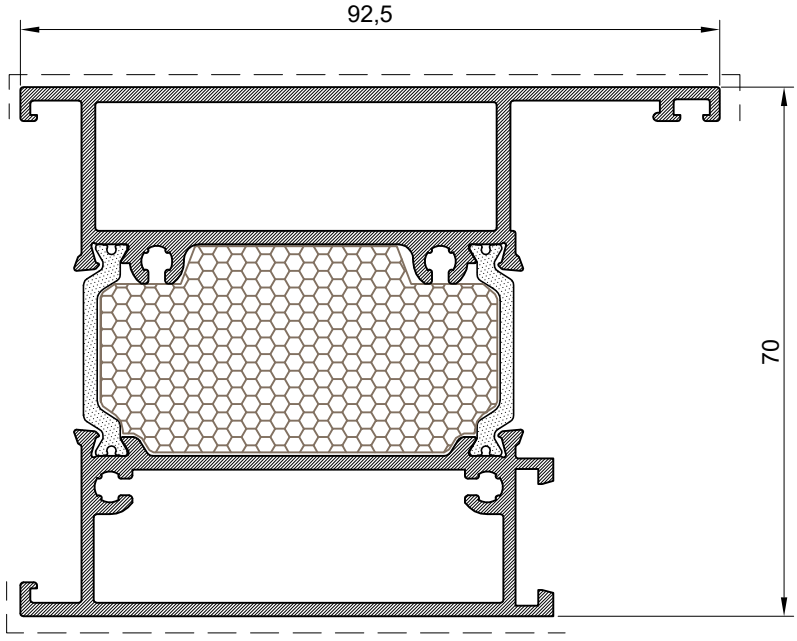
Profil rama Frame profile		
Art.Br. Art.Nr.	**FT-1050F**	
Težina Weight	kg/m'	**2.255**
Opseg Perimeter	mm	**500.10**
Moment inercije Moments of inertia	Ix (cm4)	**131.88**
	Iy (cm4)	**4.93**
	Wx (cm3)	**21.85**
	Wy (cm3)	**3.54**
L	mm	**6500**

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F"

PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"

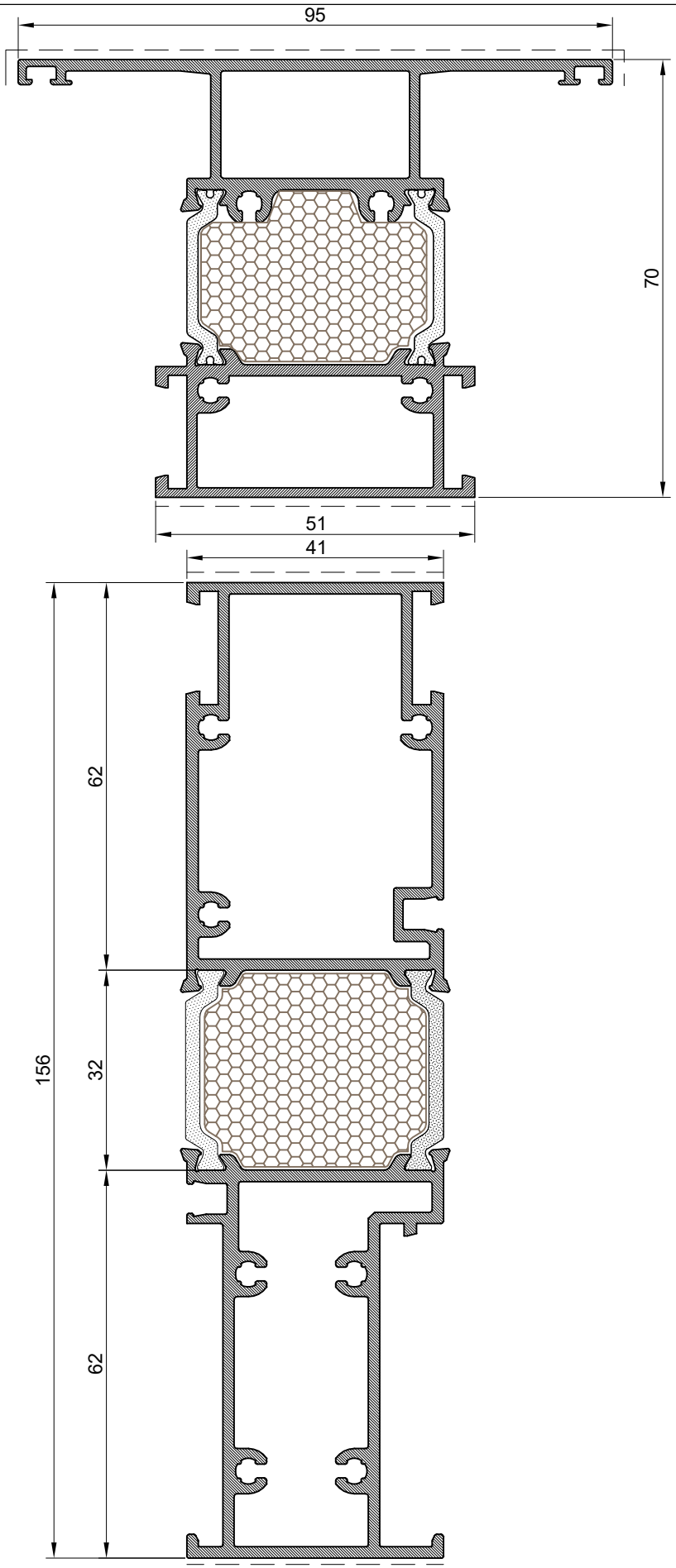


Profil krila Sash profile		
Art.Br. Art.Nr.	**FT-1060F**	
Težina Weight	kg/m'	**2.019**
Opseg Perimeter	mm	**515.24**
Moment inercije Moments of inertia	Ix (cm4)	**38.31**
	Iy (cm4)	**29.25**
	Wx (cm3)	**14.21**
	Wy (cm3)	**6.39**
L	mm	**6500**



Prečka Mullion		
Art.Br. Art.Nr.	**FT-1070F**	
Težina Weight	kg/m'	**2.250**
Opseg Perimeter	mm	**403.59**
Moment inercije Moments of inertia	Ix (cm4)	**37.960**
	Iy (cm4)	**44.210**
	Wx (cm3)	**13.760**
	Wy (cm3)	**8.310**
L	mm	**6500**

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

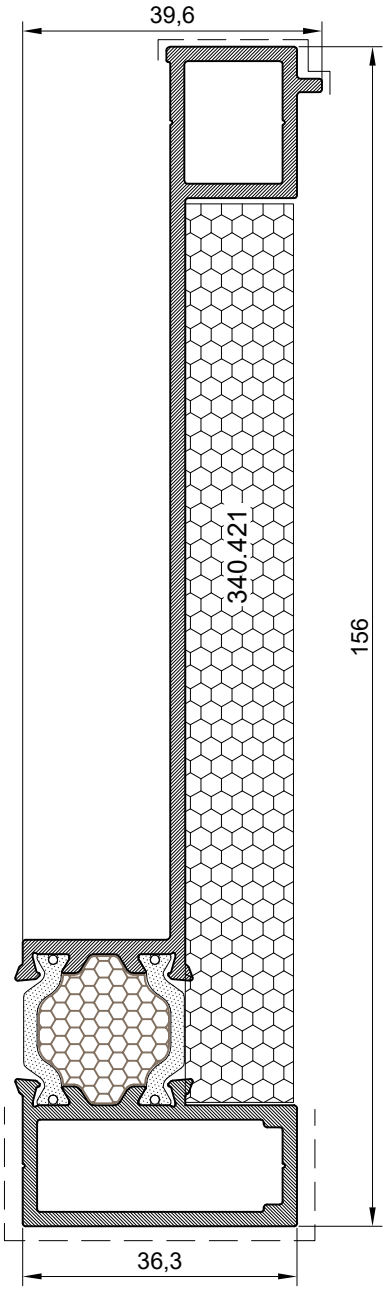


Prečka Mullion		
Art.Br. Art.Nr.	**FT-1073F**	
Težina Weight	kg/m'	**1.946**
Opseg Perimeter	mm	**433.00**
Moment inercije Moments of inertia	Ix (cm4)	**31.54**
	Iy (cm4)	**26.32**
	Wx (cm3)	**10.85**
	Wy (cm3)	**5.54**
L	mm	**6500**

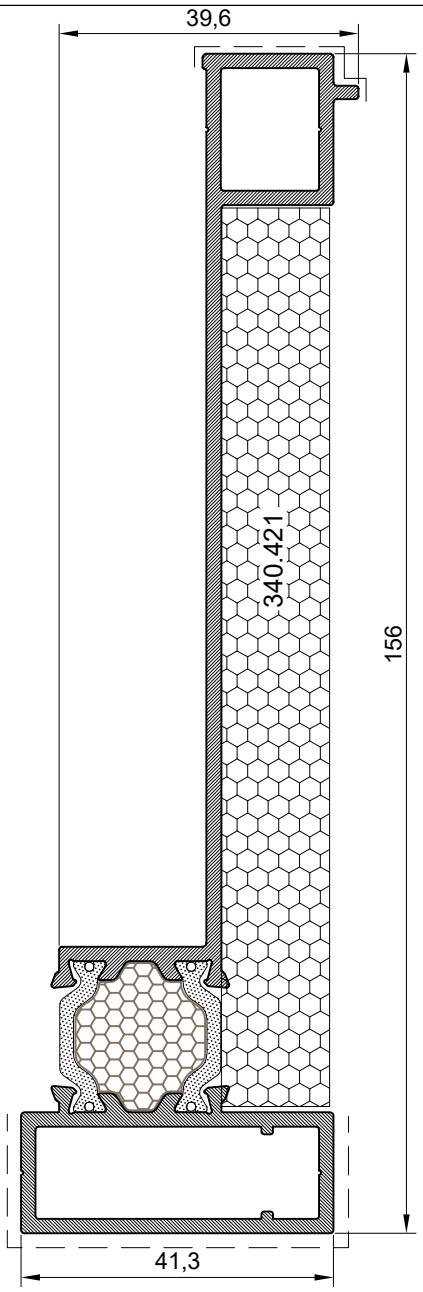
Prečka Mullion		
Art.Br. Art.Nr.	**FT-1074F**	
Težina Weight	kg/m'	**2.848**
Opseg Perimeter	mm	**501.10**
Moment inercije Moments of inertia	Ix (cm4)	**185.36**
	Iy (cm4)	**20.13**
	Wx (cm3)	**30.59**
	Wy (cm3)	**9.14**
L	mm	**6500**

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F"

PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"



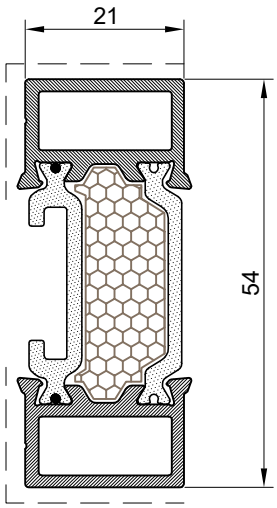
Spojni profil sa fasadom Connection profile for curtain wall		
Art.Br. Art.Nr.	**FT-0196F**	
Težina Weight	kg/m'	**1.790**
Opseg Perimeter	mm	**437.26**
Moment inercije Moments of inertia	Ix (cm4)	**153.59**
	Iy (cm4)	**5.790**
	Wx (cm3)	**20.92**
	Wy (cm3)	**2.740**
L	mm	**6500**



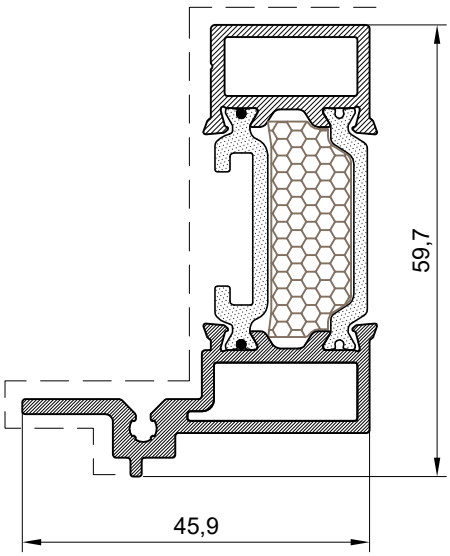
Spojni profil sa fasadom Connection profile for curtain wall		
Art.Br. Art.Nr.	**FT-0197F**	
Težina Weight	kg/m'	**1.831**
Opseg Perimeter	mm	**436.48**
Moment inercije Moments of inertia	Ix (cm4)	**157.65**
	Iy (cm4)	**7.130**
	Wx (cm3)	**21.19**
	Wy (cm3)	**2.950**
L	mm	**6500**

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F"

PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"



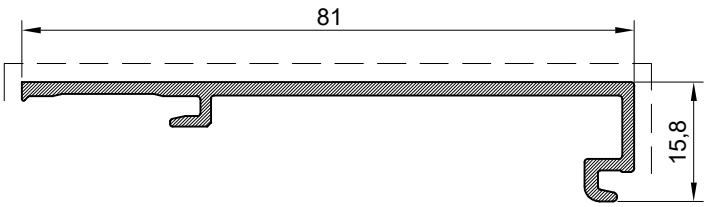
Umetak Insert		
Art.Br. Art.Nr.	**FT-1071F**	
Težina Weight	kg/m'	**0.875**
Opseg Perimeter	mm	**174.95**
Moment inercije Moments of inertia	Ix (cm4)	**7.220**
	Iy (cm4)	**1.300**
	Wx (cm3)	**3.740**
	Wy (cm3)	**1.120**
L	mm	**6500**



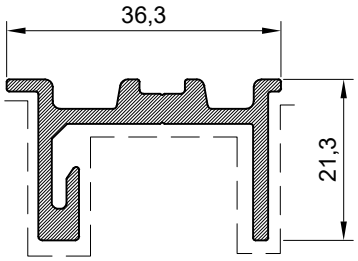
Umetak Insert		
Art.Br. Art.Nr.	**FT-1072F**	
Težina Weight	kg/m'	**1.114**
Opseg Perimeter	mm	**244.88**
Moment inercije Moments of inertia	Ix (cm4)	**10.32**
	Iy (cm4)	**4.50**
	Wx (cm3)	**4.26**
	Wy (cm3)	**1.52**
L	mm	**6500**

PROFIL BEZ XPS ISPUNE U NAZIVU NEMA NASTAVKA „F"

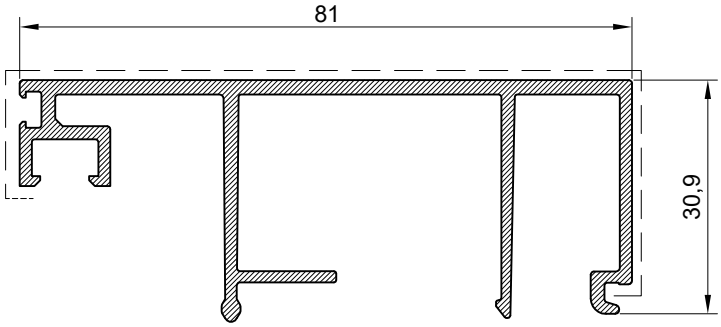
PROFILES WITHOUT XPS DO NOT HAVE ENDING "F"



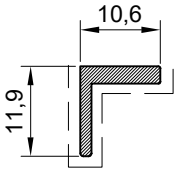
Al profil Al profile		
Art.Br. Art.Nr.	**F-1384**	
Težina Weight	kg/m'	**0.509**
Opseg Perimeter	mm	**221.73**
Moment inercije Moments of inertia	Ix (cm4)	**0.2770**
	Iy (cm4)	**12.3392**
	Wx (cm3)	**0.2114**
	Wy (cm3)	**2.6598**
L	mm	**6500**



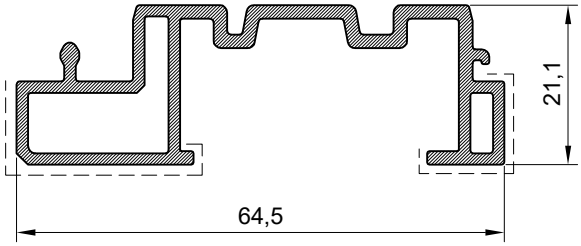
Al profil Al profile		
Art.Br. Art.Nr.	**F-1385**	
Težina Weight	kg/m'	**0.545**
Opseg Perimeter	mm	**175.06**
Moment inercije Moments of inertia	Ix (cm4)	**0.800**
	Iy (cm4)	**2.5727**
	Wx (cm3)	**0.6062**
	Wy (cm3)	**1.4058**
L	mm	**6500**



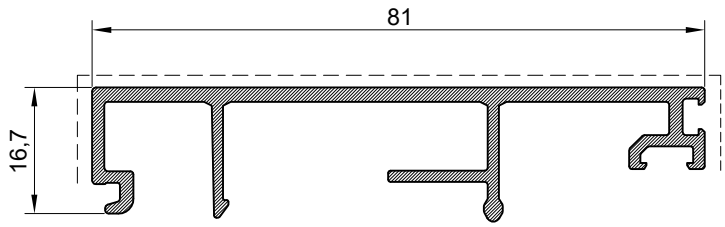
Al profil Al profile		
Art.Br. Art.Nr.	**F-1386**	
Težina Weight	kg/m'	**1.017**
Opseg Perimeter	mm	**438.29**
Moment inercije Moments of inertia	Ix (cm4)	**3.7251**
	Iy (cm4)	**26.2336**
	Wx (cm3)	**1.6772**
	Wy (cm3)	**6.1944**
L	mm	**6500**



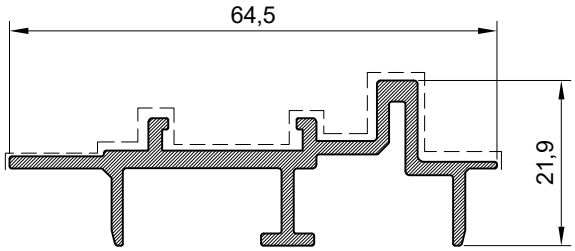
Al profil Al profile		
Art.Br. Art.Nr.	**F-1387**	
Težina Weight	kg/m'	**0.104**
Opseg Perimeter	mm	**44.44**
Moment inercije Moments of inertia	Ix (cm4)	**0.0436**
	Iy (cm4)	**0.0416**
	Wx (cm3)	**0.0509**
	Wy (cm3)	**0.0595**
L	mm	**6500**



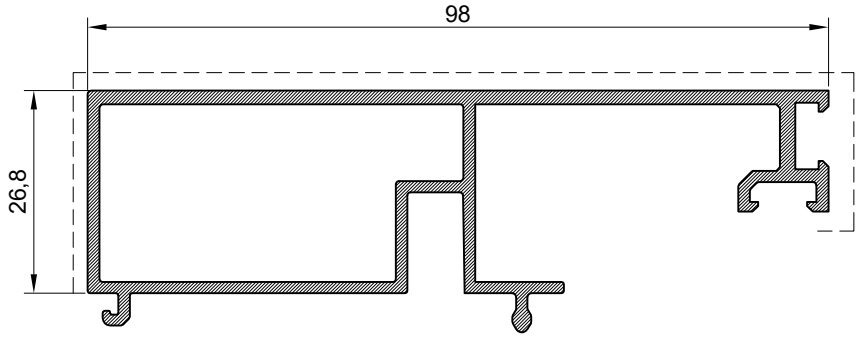
Al profil Al profile		
Art.Br. Art.Nr.	**F-1388**	
Težina Weight	kg/m'	**0.788**
Opseg Perimeter	mm	**256.58**
Moment inercije Moments of inertia	Ix (cm4)	**1.4947**
	Iy (cm4)	**12.8283**
	Wx (cm3)	**1.2721**
	Wy (cm3)	**3.9278**
L	mm	**6500**



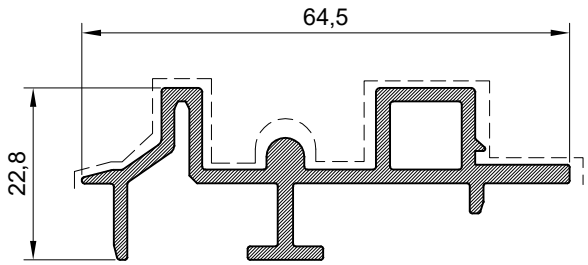
Al profil Al profile		
Art.Br. Art.Nr.	**F-1389**	
Težina Weight	kg/m'	**0.771**
Opseg Perimeter	mm	**333.28**
Moment inercije Moments of inertia	Ix (cm4)	**0.7290**
	Iy (cm4)	**19.0498**
	Wx (cm3)	**0.5678**
	Wy (cm3)	**4.6294**
L	mm	**6500**



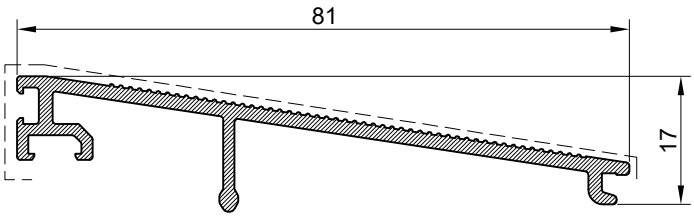
Al profil Al profile		
Art.Br. Art.Nr.	**F-1390**	
Težina Weight	kg/m'	**0.615**
Opseg Perimeter	mm	**251.80**
Moment inercije Moments of inertia	Ix (cm4)	**0.5178**
	Iy (cm4)	**6.4697**
	Wx (cm3)	**0.4716**
	Wy (cm3)	**1.8427**
L	mm	**6500**



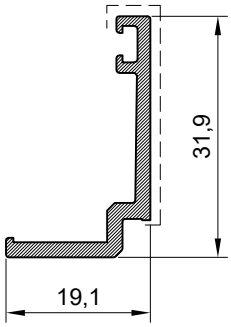
Al profil Al profile		
Art.Br. Art.Nr.	**F-1391**	
Težina Weight	kg/m'	**1.175**
Opseg Perimeter	mm	**381.16**
Moment inercije Moments of inertia	Ix (cm4)	**5.4069**
	Iy (cm4)	**40.1920**
	Wx (cm3)	**2.2671**
	Wy (cm3)	**7.6353**
L	mm	**6500**



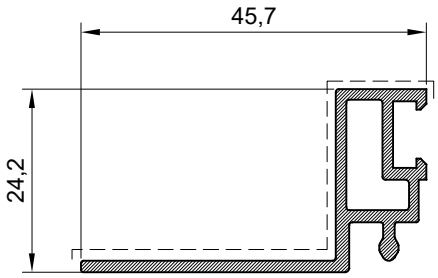
Al profil Al profile		
Art.Br. Art.Nr.	**F-1392**	
Težina Weight	kg/m'	**0.780**
Opseg Perimeter	mm	**257.28**
Moment inercije Moments of inertia	Ix (cm4)	**0.9102**
	Iy (cm4)	**8.4401**
	Wx (cm3)	**0.7341**
	Wy (cm3)	**2.5630**
L	mm	**6500**



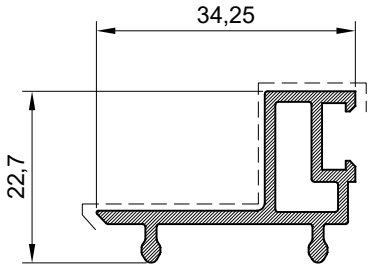
Al profil Al profile		
Art.Br. Art.Nr.	**F-1393**	
Težina Weight	kg/m'	**0.586**
Opseg Perimeter	mm	**263.19**
Moment inercije Moments of inertia	Ix (cm4)	**0.3468**
	Iy (cm4)	**13.6387**
	Wx (cm3)	**0.3297**
	Wy (cm3)	**3.0014**
L	mm	**6500**



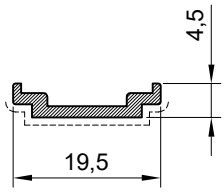
Al profil Al profile		
Art.Br. Art.Nr.	**F-1394**	
Težina Weight	kg/m'	**0.280**
Opseg Perimeter	mm	**115.54**
Moment inercije Moments of inertia	Ix (cm4)	**1.1696**
	Iy (cm4)	**0.3008**
	Wx (cm3)	**0.5609**
	Wy (cm3)	**0.2063**
L	mm	**6500**



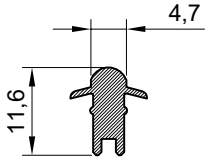
Al profil Al profile		
Art.Br. Art.Nr.	**F-1395**	
Težina Weight	kg/m'	**0.423**
Opseg Perimeter	mm	**161.12**
Moment inercije Moments of inertia	Ix (cm4)	**1.0681**
	Iy (cm4)	**2.2870**
	Wx (cm3)	**0.7064**
	Wy (cm3)	**0.7196**
L	mm	**6500**



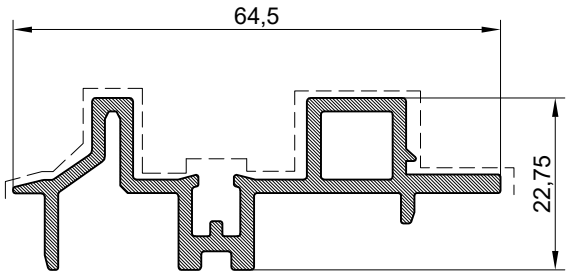
Al profil Al profile		
Art.Br. Art.Nr.	**F-1396**	
Težina Weight	kg/m'	**0.386**
Opseg Perimeter	mm	**134.35**
Moment inercije Moments of inertia	Ix (cm4)	**0.6088**
	Iy (cm4)	**1.2564**
	Wx (cm3)	**0.4886**
	Wy (cm3)	**1.2564**
L	mm	**6500**



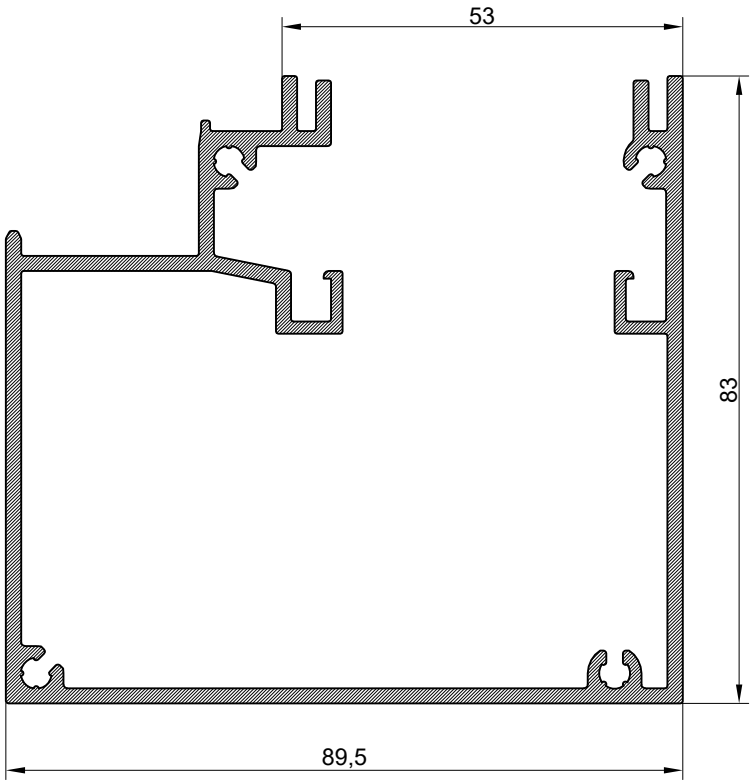
Al profil Al profile		
Art.Br. Art.Nr.	**F-1448**	
Težina Weight	kg/m'	**0.104**
Opseg Perimeter	mm	**53.06**
Moment inercije Moments of inertia	Ix (cm4)	**0.0046**
	Iy (cm4)	**0.1415**
	Wx (cm3)	**0.0158**
	Wy (cm3)	**0.1451**
L	mm	**6500**



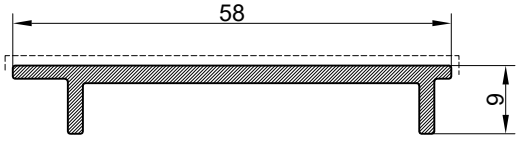
Profil vodilice Guide profile		
Art.Br. Art.Nr.	**F-1112**	
Težina Weight	kg/m'	**0.129**
Opseg Perimeter	mm	**45.43**
L	mm	**6500**



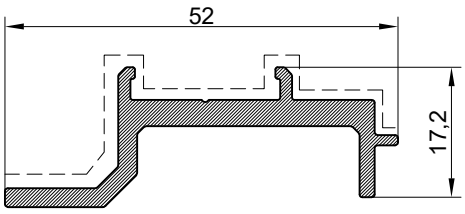
Al profil Al profile		
Art.Br. Art.Nr.	**F-1466**	
Težina Weight	kg/m'	**0.773**
Opseg Perimeter	mm	**262.116**
Moment inercije Moments of inertia	Ix (cm4)	**8.4827**
	Iy (cm4)	**0.9940**
	Wx (cm3)	**2.5791**
	Wy (cm3)	**0.8424**
L	mm	**6500**



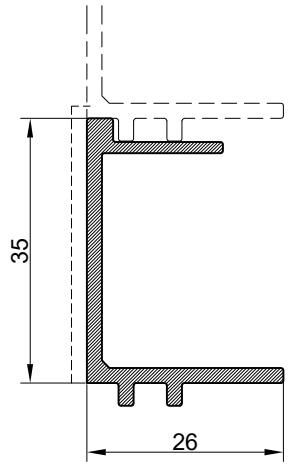
Al profil Al profile		
Art.Br. Art.Nr.	**F-1480**	
Težina Weight	kg/m'	**2.064**
Opseg Perimeter	mm	**768.74**
Moment inercije Moments of inertia	Ix (cm4)	**63.570**
	Iy (cm4)	**86.708**
	Wx (cm3)	**14.011**
	Wy (cm3)	**18.723**
L	mm	**6500**



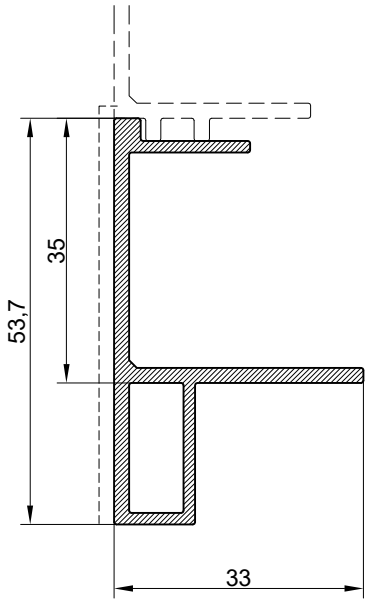
Al profil Al profile		
Art.Br. Art.Nr.	**F-1478**	
Težina Weight	kg/m'	**0.424**
Opseg Perimeter	mm	**145.75**
Moment inercije Moments of inertia	Ix (cm4)	**0.0607**
	Iy (cm4)	**4.8705**
	Wx (cm3)	**0.0854**
	Wy (cm3)	**1.6294**
L	mm	**6500**



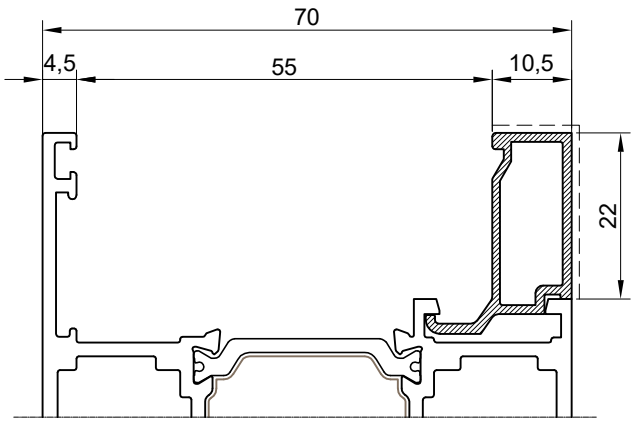
Al profil Al profile		
Art.Br. Art.Nr.	**F-1476**	
Težina Weight	kg/m'	**0.583**
Opseg Perimeter	mm	**161.73**
Moment inercije Moments of inertia	Ix (cm4)	**4.4114**
	Iy (cm4)	**0.5031**
	Wx (cm3)	**1.6040**
	Wy (cm3)	**0.5268**
L	mm	**6500**



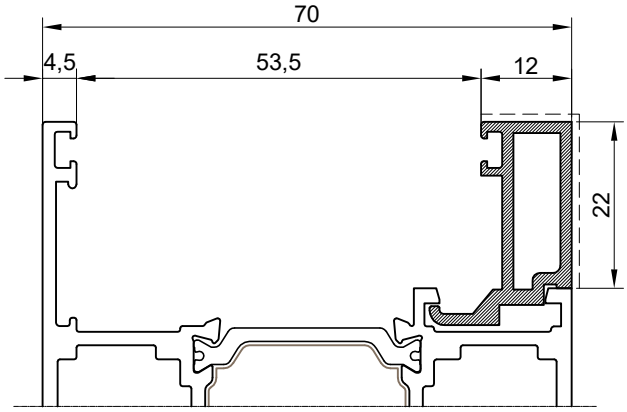
Al profil Al profile		
Art.Br. Art.Nr.	**F-1669**	
Težina Weight	kg/m'	**0.429**
Opseg Perimeter	mm	**163.34**
Moment inercije Moments of inertia	Ix (cm4)	**2.7845**
	Iy (cm4)	**0.8150**
	Wx (cm3)	**1.2993**
	Wy (cm3)	**0.4263**
L	mm	**6500**



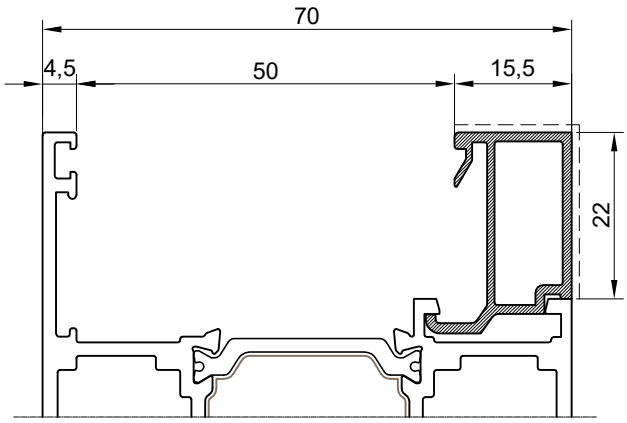
Al profil Al profile		
Art.Br. Art.Nr.	**F-1670**	
Težina Weight	kg/m'	**0.640**
Opseg Perimeter	mm	**203.38**
Moment inercije Moments of inertia	Ix (cm4)	**6.0158**
	Iy (cm4)	**1.6741**
	Wx (cm3)	**2.0623**
	Wy (cm3)	**0.6570**
L	mm	**6500**



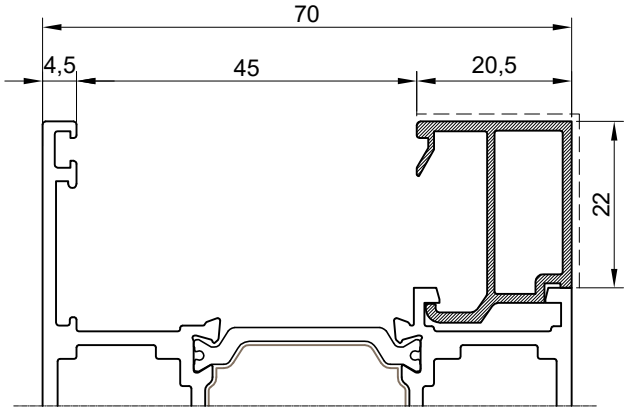
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-664**	
Težina Weight	kg/m'	**0.243**
Opseg Perimeter	mm	**93.00**
L	mm	**6500**



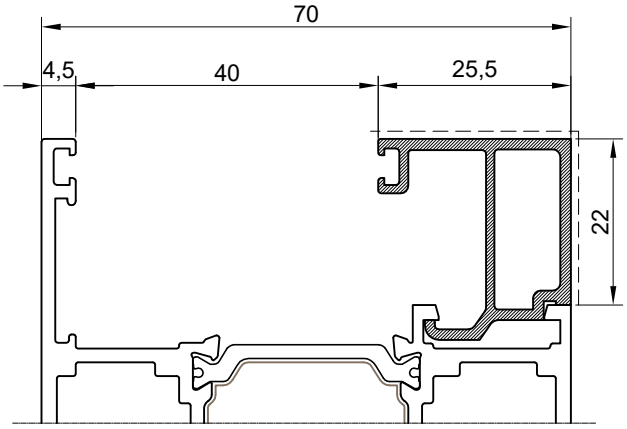
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**F-0784**	
Težina Weight	kg/m'	**0.330**
Opseg Perimeter	mm	**105.40**
L	mm	**6500**



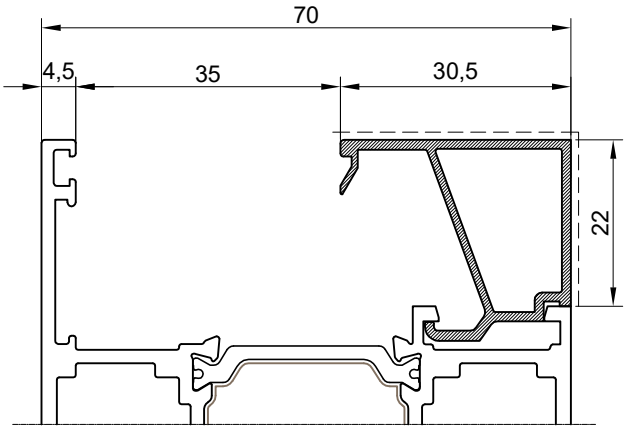
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-665**	
Težina Weight	kg/m'	**0.271**
Opseg Perimeter	mm	**112.00**
L	mm	**6500**



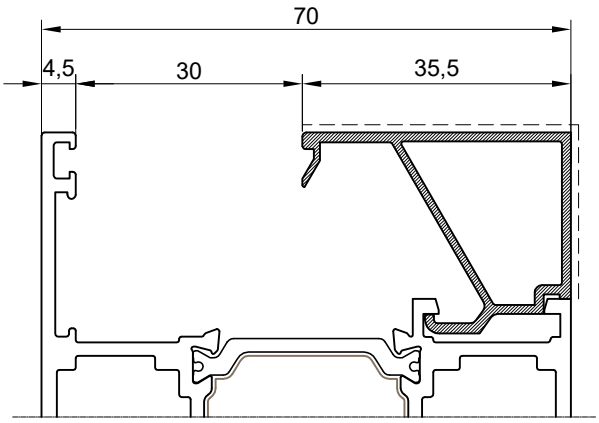
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-666**	
Težina Weight	kg/m'	**0.289**
Opseg Perimeter	mm	**122.00**
L	mm	**6500**



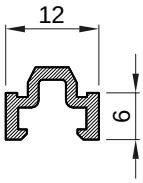
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-667**	
Težina Weight	kg/m'	**0.358**
Opseg Perimeter	mm	**139.00**
L	mm	**6500**



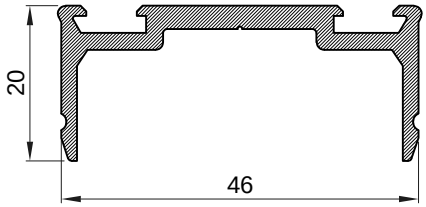
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-668**	
Težina Weight	kg/m'	**0.326**
Opseg Perimeter	mm	**135.00**
L	mm	**6500**



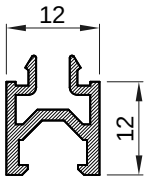
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-669**	
Težina Weight	kg/m'	**0.347**
Opseg Perimeter	mm	**143.00**
L	mm	**6500**



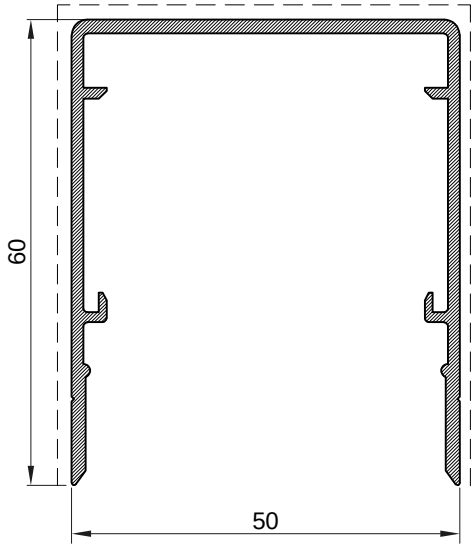
Al profil Al profile		
Art.Br. Art.Nr.	FM 6/12	
Težina Weight	kg/m'	0.116
Opseg Perimeter	mm	61.00
L	mm	6500



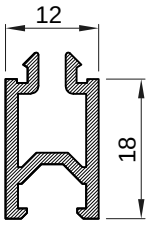
Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/20D	
Težina Weight	kg/m'	0.558
Opseg Perimeter	mm	185.00
L	mm	6500



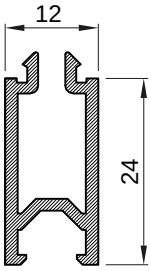
Al profil Al profile		
Art.Br. Art.Nr.	FM 12/12	
Težina Weight	kg/m'	0.18
Opseg Perimeter	mm	100.16
L	mm	6500



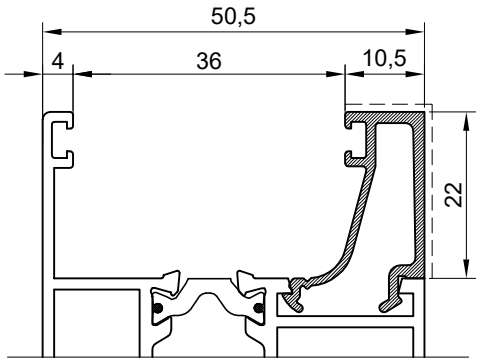
Profil ojačanja Reinforcement profile		
Art.Br. Art.Nr.	FMO 50/61	
Težina Weight	kg/m'	0.785
Opseg Perimeter	mm	365.00
L	mm	6500



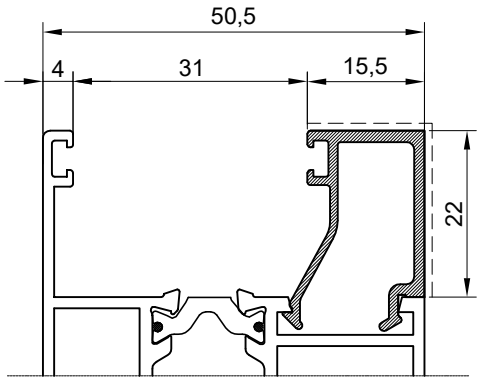
Al profil Al profile		
Art.Br. Art.Nr.	FM 18/12	
Težina Weight	kg/m'	0.254
Opseg Perimeter	mm	124.00
L	mm	6500



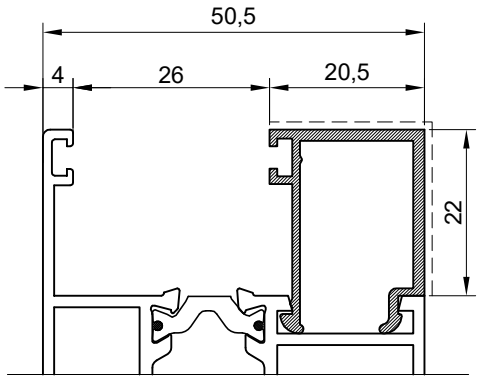
Al profil Al profile		
Art.Br. Art.Nr.	FM 24/12	
Težina Weight	kg/m'	0.310
Opseg Perimeter	mm	148.30
L	mm	6500



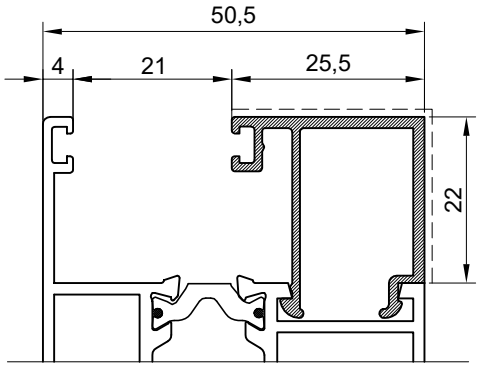
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-636**	
Težina Weight	kg/m'	**0.261**
Opseg Perimeter	mm	**151.00**
L	mm	**6500**



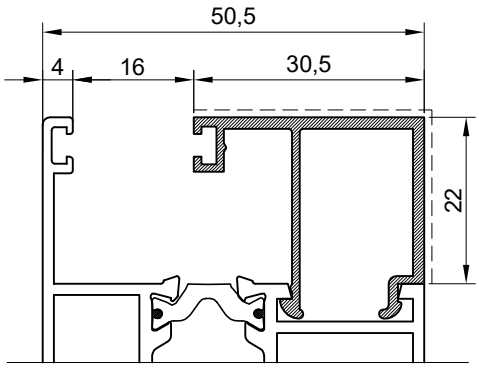
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**M45-709**	
Težina Weight	kg/m'	**0.269**
Opseg Perimeter	mm	**156.00**
L	mm	**6500**



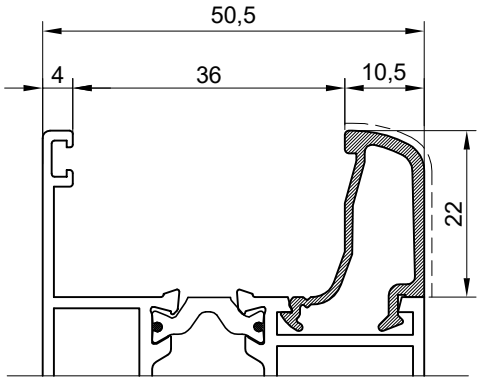
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-644**	
Težina Weight	kg/m'	**0.275**
Opseg Perimeter	mm	**162.00**
L	mm	**6500**



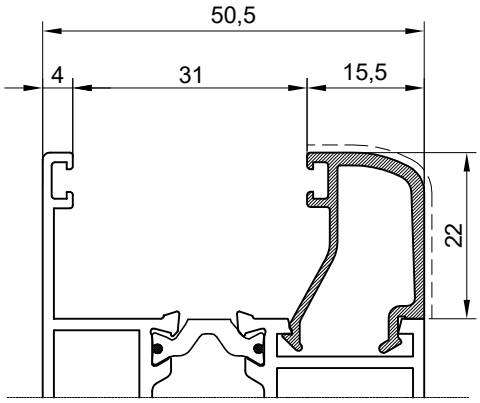
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-658**	
Težina Weight	kg/m'	**0.318**
Opseg Perimeter	mm	**184.00**
L	mm	**6500**



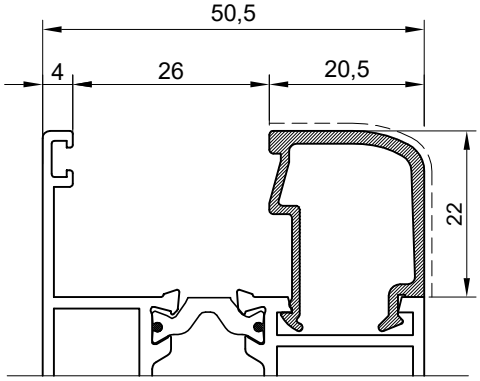
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-653**	
Težina Weight	kg/m'	**0.348**
Opseg Perimeter	mm	**201.00**
L	mm	**6500**



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

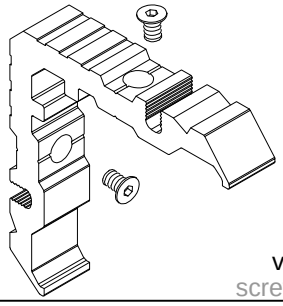
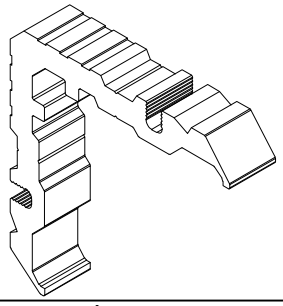
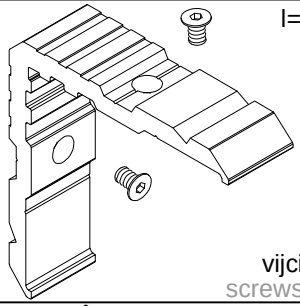
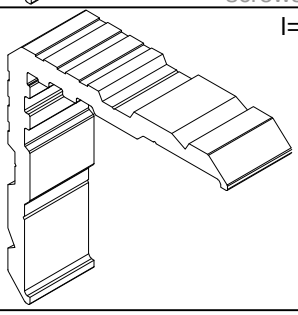
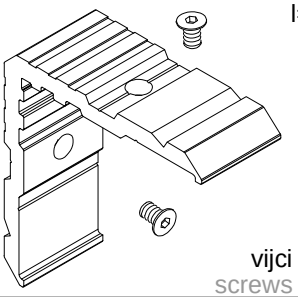
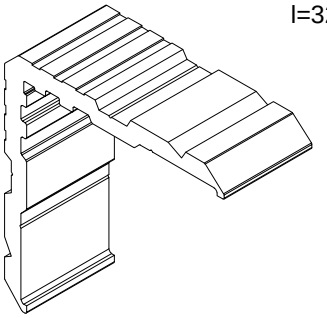


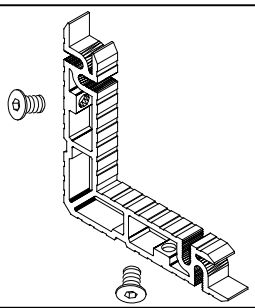
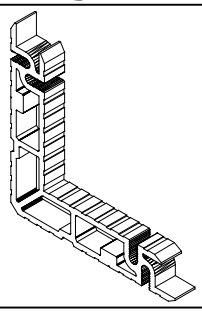
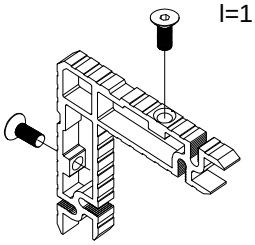
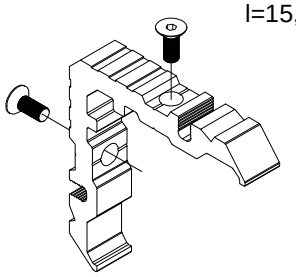
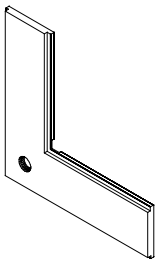
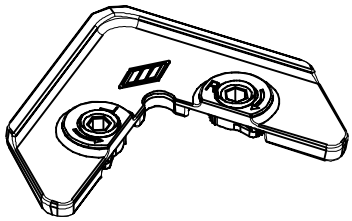
Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**M45-740**	
Težina Weight	kg/m'	**0.258**
Opseg Perimeter	mm	**148.00**
L	mm	**6500**

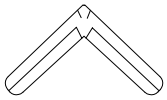
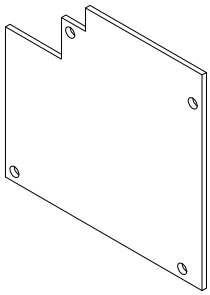


Staklo lajsna Glazing bead		
Art.Br. Art.Nr.	**Z40-646**	
Težina Weight	kg/m'	**0.286**
Opseg Perimeter	mm	**154.00**
L	mm	**6500**

Vezni elementi
Connection elements

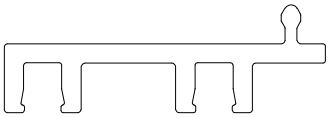
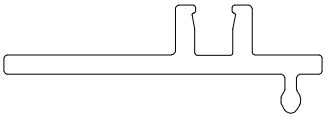
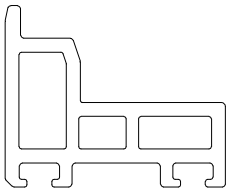
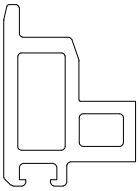
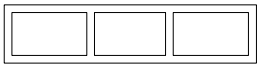
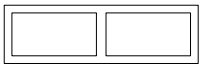
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
710.491	l=16.6 mm  vijci 431.266 screws 431.266	- Kutna spojnica 12.5, L=16.6 (s vijcima) - Corner bracket 12.5, L=16.6 8with screws)	Al	
710.492	l=16.6 mm 	- Kutna spojnica 12.5, L=16.6 - Corner bracket 12.5, L=16.6	Al	
710.493	l=23.4 mm  vijci 431.265 screws 431.265	- Kutna spojnica 8, L=23.4 (s vijcima) - Corner bracket 8, L=23.4 (with screws)	Al	
710.494	l=23.4 mm 	- Kutna spojnica 8, L=23.4 - Corner bracket 8, L=23.4	Al	
710.495	l=32 mm  vijci 431.265 screws 431.265	- Kutna spojnica 8, L=32 (s vijcima) - Corner bracket 8, L=32 (with screws)	Al	
710.496	l=32 mm 	- Kutna spojnica 8, L=32 - Corner bracket 8, L=32	Al	

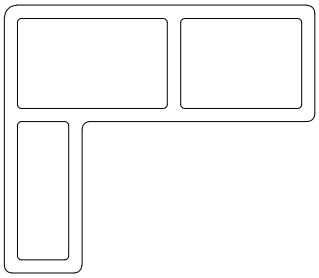
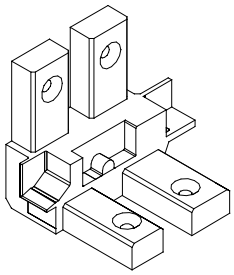
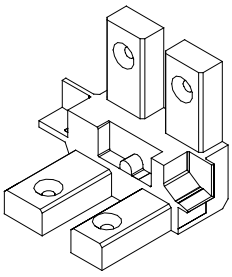
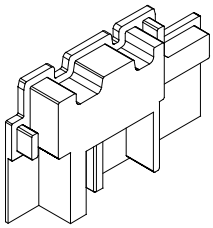
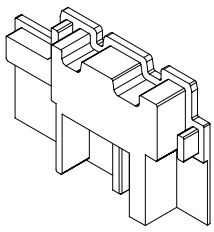
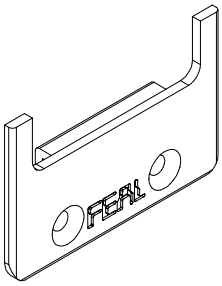
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
710.201		- Kutna spojnica 24.6, L=14.6 (s vijcima) - Corner bracket 24.6, L=14.6 (with screws)	Al	
710.202		- Kutna spojnica 24.6, L=14.6 - Corner bracket 24.6, L=14.6	Al	
710.523		- Kutna spojnica 29.4, L=11.6 (s vijcima) - Corner bracket 29.4, L=11.6 (with screws)	Al	
710.524		- Kutna spojnica 12.5, L=15.7 (s vijcima) - Corner bracket 12.5, L=15.7 (with screws)	Al	
730.017		- Kutna spojnica za komoru 19.1x1.6 - Corner bracket for chamber 19.2x1.6	Zamak	
731.010		- Kutna spojnica za komoru 19.1x1.6 - Stara oznaka 2019/500 - Corner bracket for chamber 19.1x1.6 - Former code 2019/500	Zamak #3	

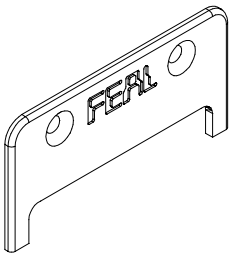
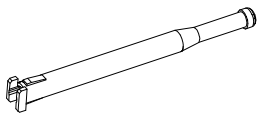
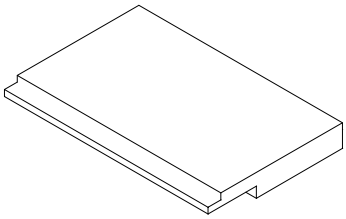
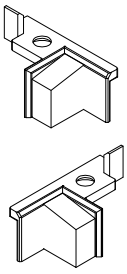
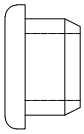
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
730.002		- Kutna spojnica za komoru 4.8x2 - Stara oznaka: G112/A - Corner bracket for chamber 4.8x2 - Former code G112/A	Inox	
521.208		- Bočni umetak za kadicu - Side insert for drainage profile	Al	

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

PVC elementi
PVC elements

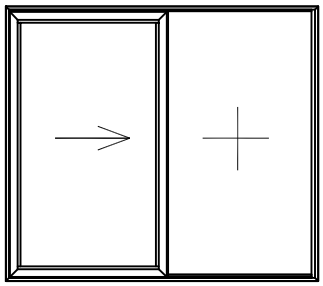
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
374.064		- Umetak za staklo lajsnu - Insert for glazing bead	PVC	
374.065		- Umetak za staklo lajsnu - Insert for glazing bead	PVC	
374.066		- Umetak na spoju dva krila - Insert on two sash joint	PVC	
374.074		- 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 umetak za ravni spoj umetaka na ramu (lijevi) - Lower insert for straight joint of inserts on frame (left)	PVC	
375.055		- Donji umetak za ravni spoj umetaka na ramu (desni) - Lower insert for straight joint of inserts on frame(right)	PVC	
375.056		- Gornji umetak za ravni spoj umetaka na ramu (lijevi) - Upper insert for straight joint of inserts on frame (left)	PVC	
375.057		- Gornji umetak za ravni spoj umetaka na ramu (desni) - Upper insert for straight joint of inserts on frame (right)	PVC	
375.058		- Gornji umetak maske-spoj dva krila - Upper mask insert-two sash joint	PVC	

Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
375.059		- Donji umetak maske-spoj dva krila - Lower mask insert-two sash joint	PVC	
375.048		- Kopča za profil - Stara oznaka: K116, 203087 - Profile clip - Former code: K116, 203087	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		- Umetak na spoju dva krila za Shemu C - Insert at the junction of two sashes for Scheme C	Tvrda guma Hard rubber	
370.024		- Čep za maskiranje rupe fi 12 - Hole masking plug Ø12	PVC	

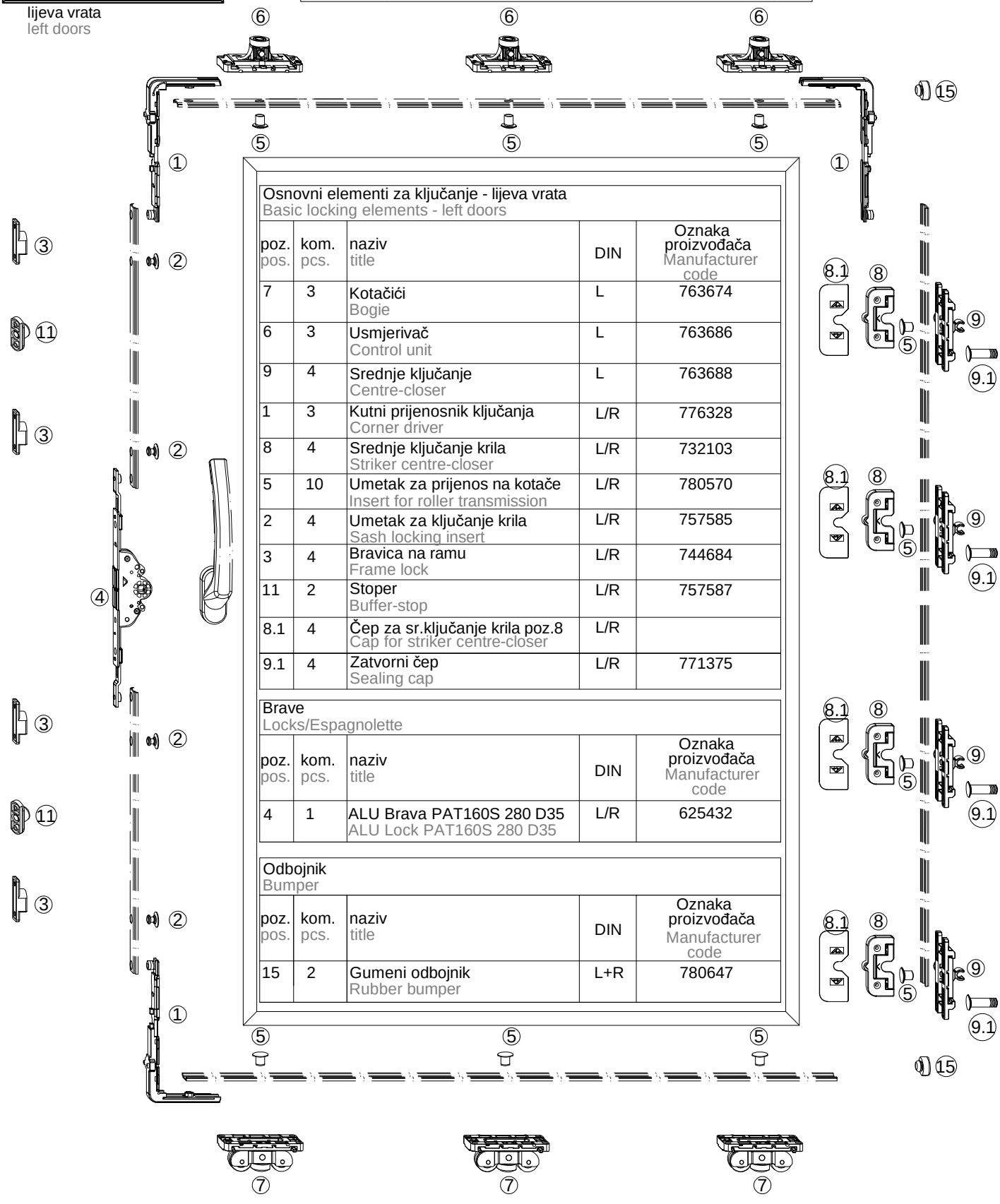
Mehanizmi
Mechanisms

- Osnovni set za otklopno-klizna vrata INOWA (lijeva).....140.066
- Basic set for tilt-sliding doors 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 tp 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 proizvođača Manufacturer code
7	3	Kotačići Bogie	L	763674
6	3	Usmjerivač Control unit	L	763686
9	4	Srednje ključanje Centre-closer	L	763688
1	3	Kutni prijenosnik ključanja Corner driver	L/R	776328
8	4	Srednje ključanje krila Striker centre-closer	L/R	732103
5	10	Umetak za prijenos na kotače Insert for roller transmission	L/R	780570
2	4	Umetak za ključanje krila Sash locking insert	L/R	757585
3	4	Bravica na ramu Frame lock	L/R	744684
11	2	Stoper Buffer-stop	L/R	757587
8.1	4	Čep za sr.ključanje krila poz.8 Cap for striker centre-closer	L/R	
9.1	4	Zatvorni čep Sealing cap	L/R	771375

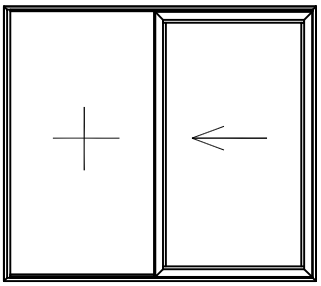
Brave
Locks/Espagnolette

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

Odbojnik
Bumper

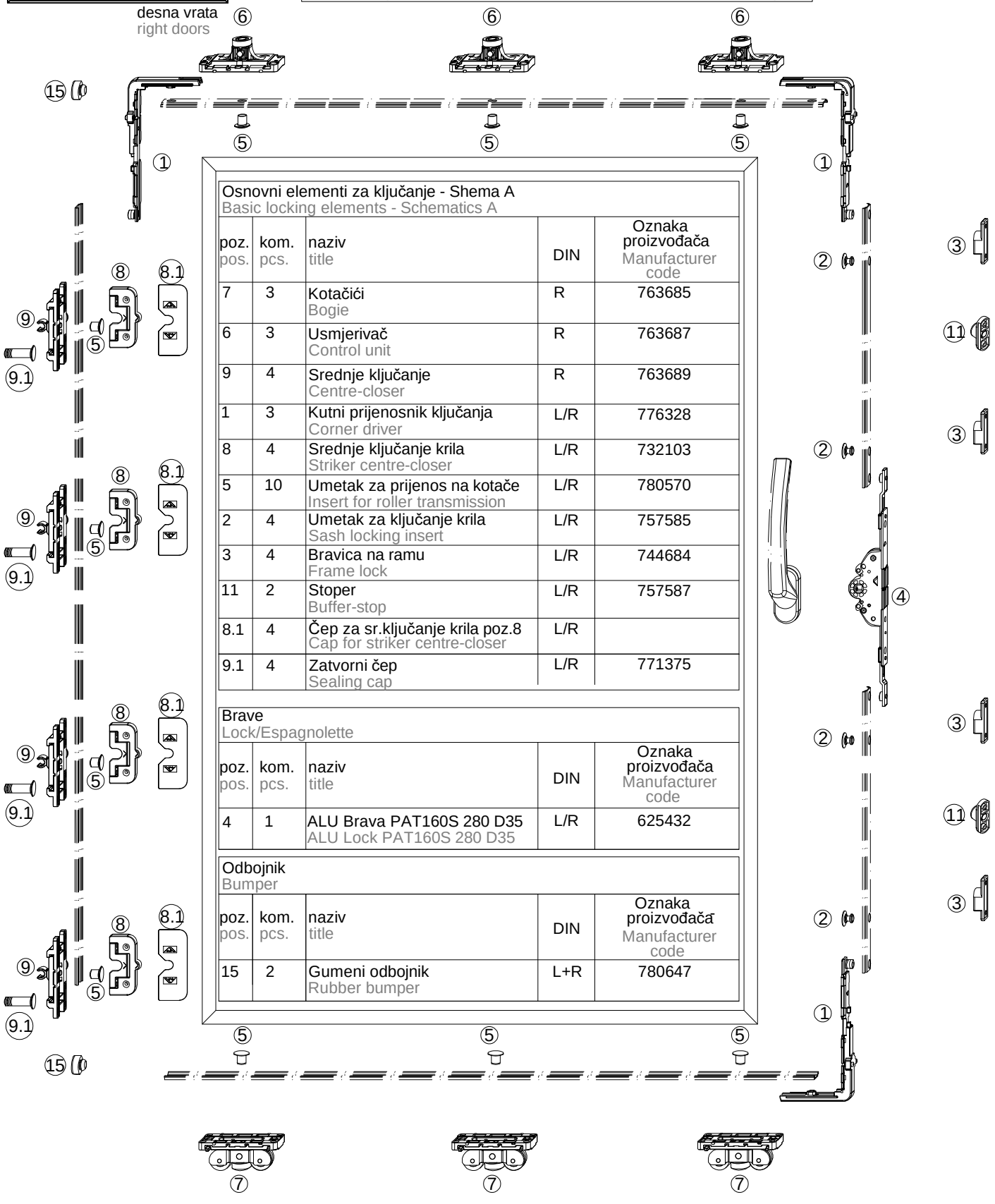
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka proizvođača Manufacturer code
15	2	Gumeni odbojnik Rubber bumper	L+R	780647

- Osnovni set za otklopno-klizna vrata INOWA (desna).....140.067
- Basic set for tilt-sliding 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 proizvođača Manufacturer code
7	3	Kotačići Bogie	R	763685
6	3	Usmjerivač Control unit	R	763687
9	4	Srednje ključanje Centre-closer	R	763689
1	3	Kutni prijenosnik ključanja Corner driver	L/R	776328
8	4	Srednje ključanje krila Striker centre-closer	L/R	732103
5	10	Umetak za prijenos na kotače Insert for roller transmission	L/R	780570
2	4	Umetak za ključanje krila Sash locking insert	L/R	757585
3	4	Bravica na ramu Frame lock	L/R	744684
11	2	Stoper Buffer-stop	L/R	757587
8.1	4	Čep za sr.ključanje krila poz.8 Cap for striker centre-closer	L/R	
9.1	4	Zatvorni čep Sealing cap	L/R	771375

Brave
Lock/Espagnolette

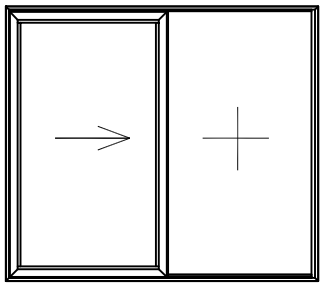
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka proizvođača Manufacturer code
4	1	ALU Brava PAT160S 280 D35 ALU Lock PAT160S 280 D35	L/R	625432

Odbojnik
Bumper

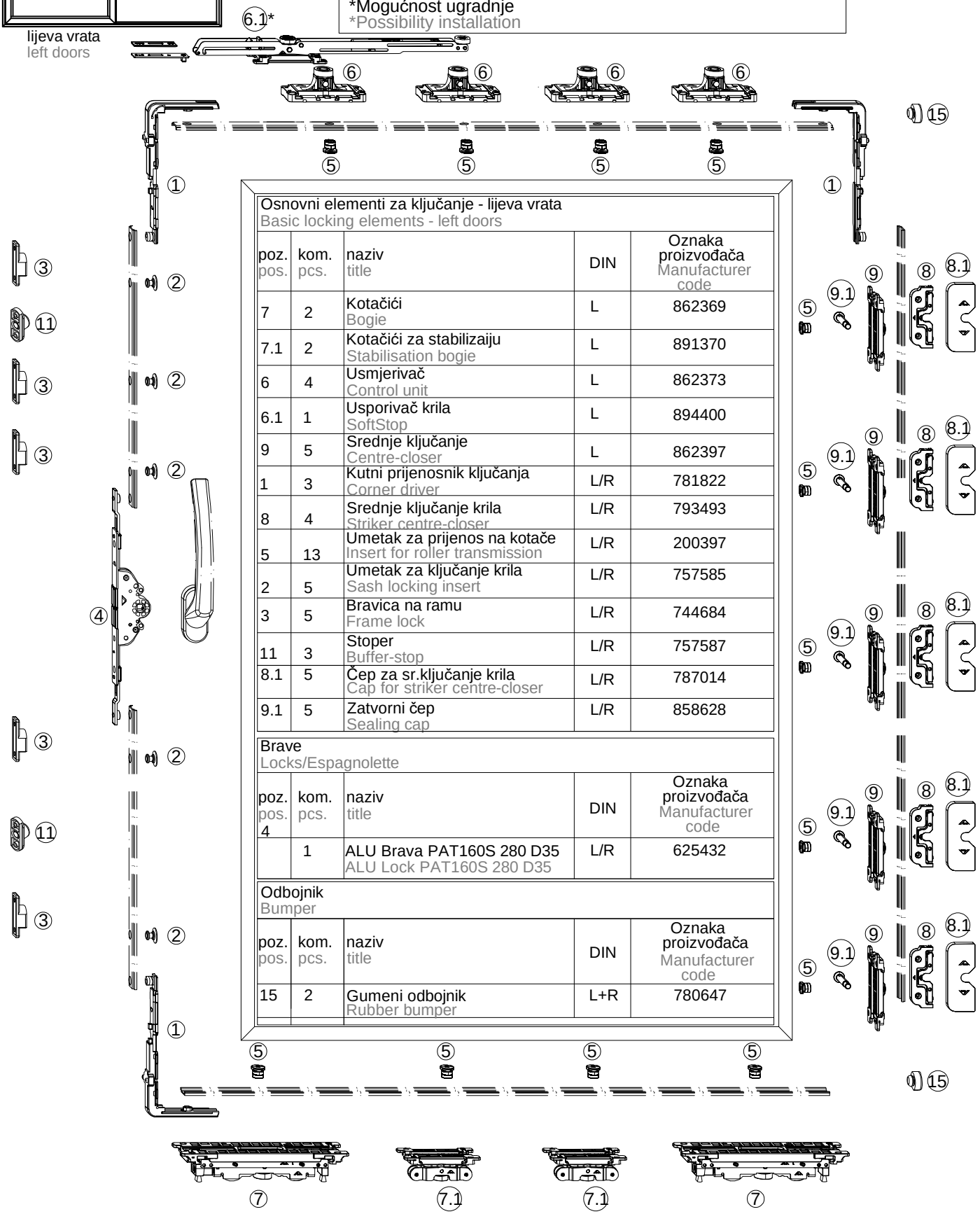
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka proizvođača Manufacturer code
15	2	Gumeni odbojnik Rubber bumper	L+R	780647

- Osnovni set za otklopno-klizna vrata INOWA (lijeva).....140.100
- Basic set for tilt-sliding doors INOWA (left).....140.100

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



lijeva vrata
left doors



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

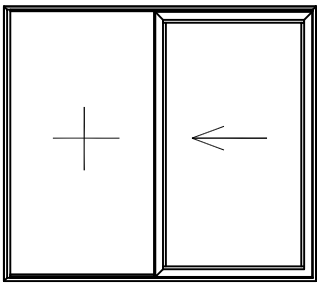
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka proizvođača Manufacturer code
7	2	Kotačići Bogie	L	862369
7.1	2	Kotačići za stabilizaiju Stabilisation bogie	L	891370
6	4	Usmjerivač Control unit	L	862373
6.1	1	Usporivač krila SoftStop	L	894400
9	5	Srednje ključanje Centre-closer	L	862397
1	3	Kutni prijenosnik ključanja Corner driver	L/R	781822
8	4	Srednje ključanje krila Striker centre-closer	L/R	793493
5	13	Umetak za prijenos na kotače Insert for roller transmission	L/R	200397
2	5	Umetak za ključanje krila Sash locking insert	L/R	757585
3	5	Bravica na ramu Frame lock	L/R	744684
11	3	Stoper Buffer-stop	L/R	757587
8.1	5	Čep za sr.ključanje krila Cap for striker centre-closer	L/R	787014
9.1	5	Zatvorni čep Sealing cap	L/R	858628

Brave
Locks/Espagnolette

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

Odbojnik
Bumper

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

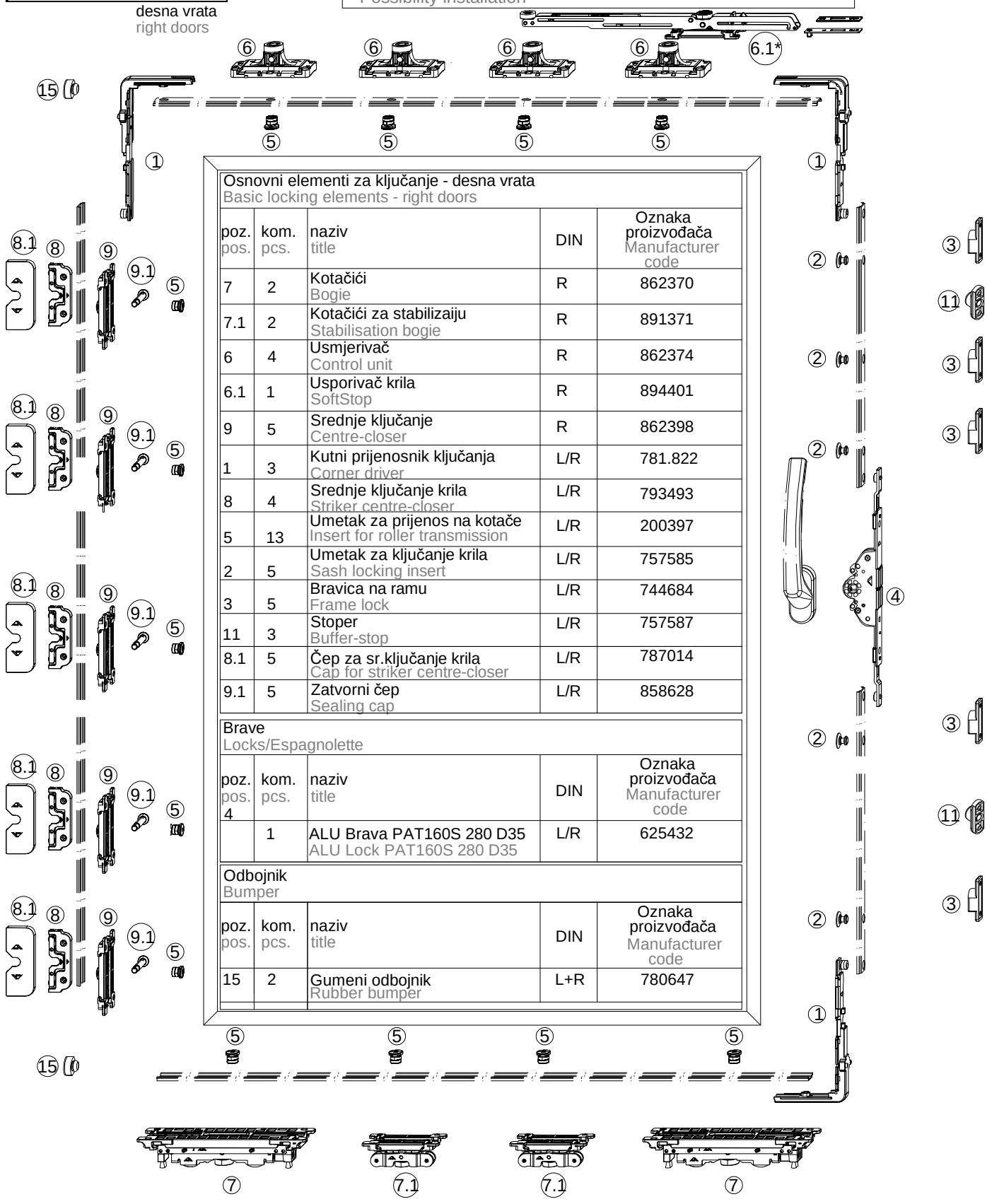


desna vrata
right doors

- Osnovni set za otklopno-klizna vrata INOWA (desna).....140.101
- Basic set for tilt-sliding doors INOWA (right).....140.101

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

*Mogućnost ugradnje
*Possibility installation



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

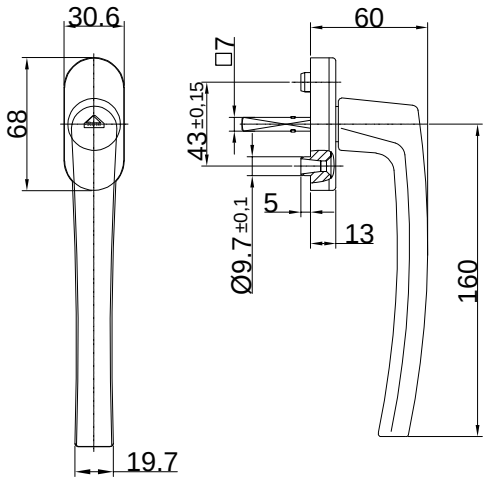
poz. pos.	kom. pcs.	naziv title	DIN	Oznaka proizvođača Manufacturer code
7	2	Kotačići Bogie	R	862370
7.1	2	Kotačići za stabilizaiju Stabilisation bogie	R	891371
6	4	Usmjerivač Control unit	R	862374
6.1	1	Usporivač krila SoftStop	R	894401
9	5	Srednje ključanje Centre-closer	R	862398
1	3	Kutni prijenosnik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

Brave
Locks/Espagnolette

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

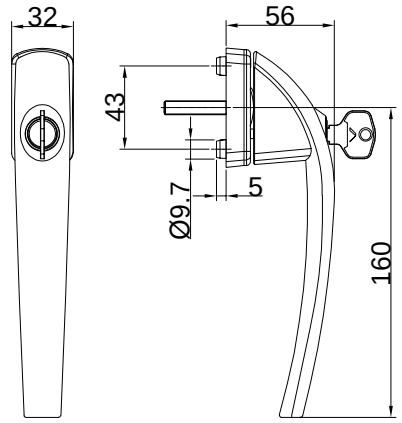
Odbojnik
Bumper

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



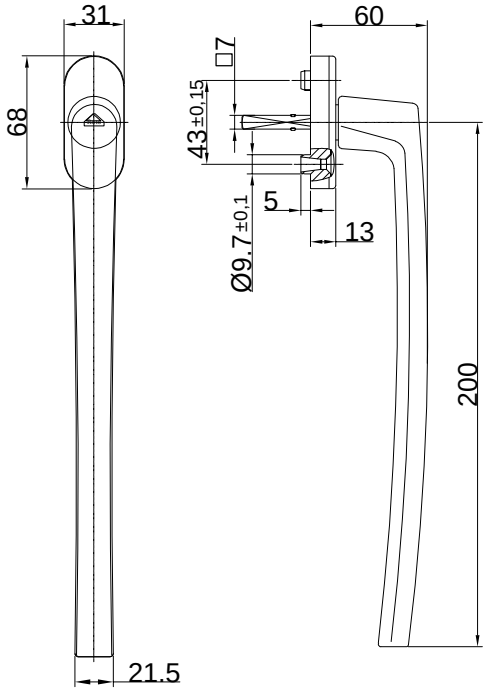
Ručka Roto Line Patio S
Handle Roto Line Patio S

Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine □7 Spindle lenght □7
100.007.06	601161	Srebrena (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

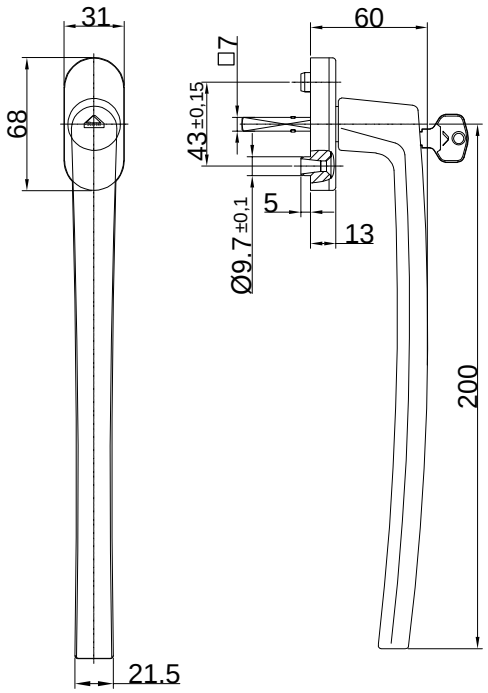
Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine □7 Spindle lenght □7
100.011.06	619739	Srebrena (R01.1) Silver (R01.1)	43
100.011.10	619740	Elox svijetla bronca R05.3 Elox bright bronze R05.3	43
100.011.01	619741	Bijela (R07.2) White (R07.2)	43



Ručka Roto Patio Alversa
Handle Roto Ptio Alversa

Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine □7 Spindle lenght □7
100.014.06	780551	Srebrena (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-srebrena; 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)

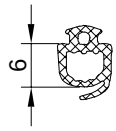
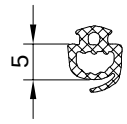
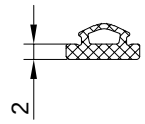
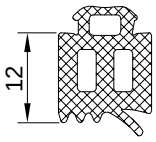
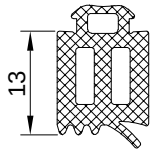


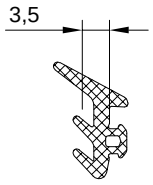
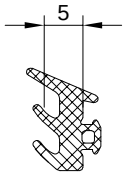
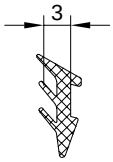
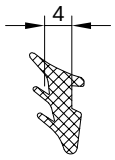
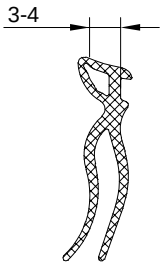
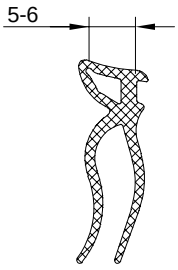
Ručka s ključem Roto Patio Alversa
Handle with key Roto Patio Alversa

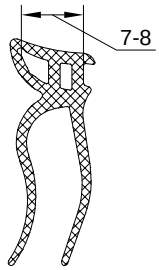
Oznaka Feal Feal code	Oznaka proizvođača Manufacturer code	Boja Color	Dužina osovine □7 Spindle lenght □7
100.015.06	780593	Srebrena (R01.1) Silver (R01.1)	43
100.015.03	787004	Crna (R06.2M) Black (R06.2M)	43
100.015.01	780598	Bijela (R07.2) White (R07.2)	43

NAPOMENA: TREĆI BROJ U OZNACI RUČKE OZNAČAVA BOJU (01-bijela; 03-crna; 05-smeđa; 06-srebrena; 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)

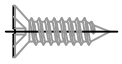
Brtvila
Gaskets

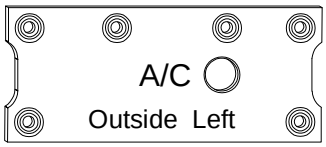
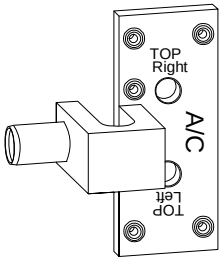
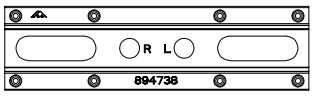
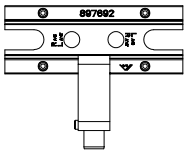
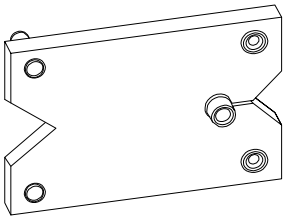
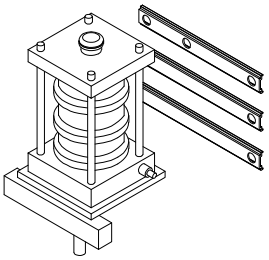
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
341.011		- Unutarnja brtva između rama i krila - Interior gasket between frame and sash	EPDM	
341.012		- Vanjska brtva između rama i krila - Exterior gasket between frame and sash	EPDM	
341.010	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

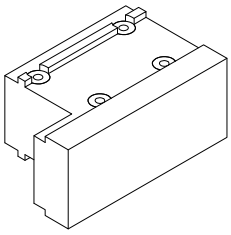
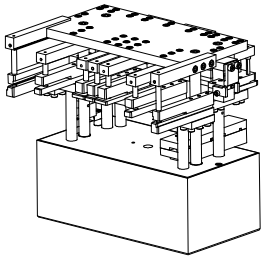
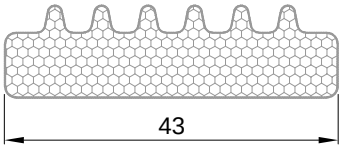
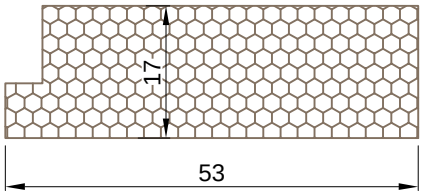
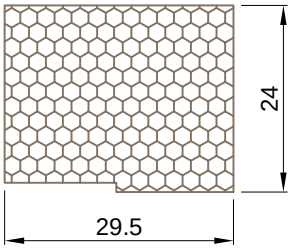
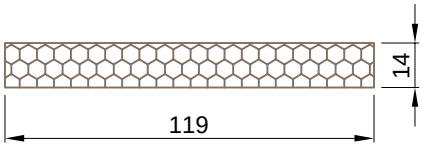
Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
328.002		- Brtva prema staklu-vanjska (3.5 mm) - Gasket to the glass-exterior (3.5 mm)	EPDM	
328.003		- Brtva prema staklu-vanjska (5 mm) - Gasket to the glass-exterior (5 mm)	EPDM	
318.001		- Brtva prema staklu-unutarnja (3 mm) - Gasket to the glass-interior (3 mm)	EPDM	
318.002		- Brtva prema staklu-unutarnja (4 mm) - Gasket to the glass-interior (4 mm)	EPDM	
311.003		- Brtva prema staklu-unutarnja (3-4 mm) - Gasket to the glass-interior (3-4 mm)	EPDM	
311.004		- Brtva prema staklu-unutarnja (5-6 mm) - Gasket to the glass-interior (5-6 mm)	EPDM	

Oznaka Code	Izgled-presjek View- cross section	Opis Description	Materijal Material	Tvrdoća Hardness (ShA)
311.005		- Brtva prema staklu-unutarnja (7-8 mm) - Gasket to the glass-interior (7-8 mm)	EPDM	

Dodaci
Accessories

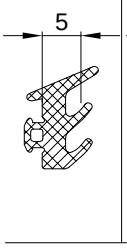
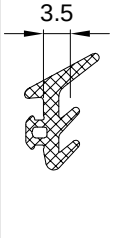
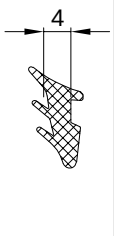
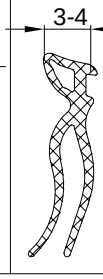
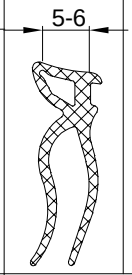
Oznaka Code	Opis Description	Izgled-presjek View-cross section	Materijal Material	Napomena Remark
433.015	3.9x9.5 DIN 7981			
433.016	3.9x13 DIN 7981			
433.017	3.9x16 DIN 7981			
433.018	3.9x19 DIN 7981			
433.033	4.2x32 DIN 7981			
433.036	4.2x45 DIN 7981			
433.089	3.5x6.5 DIN 7982			
433.092	3.5x16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

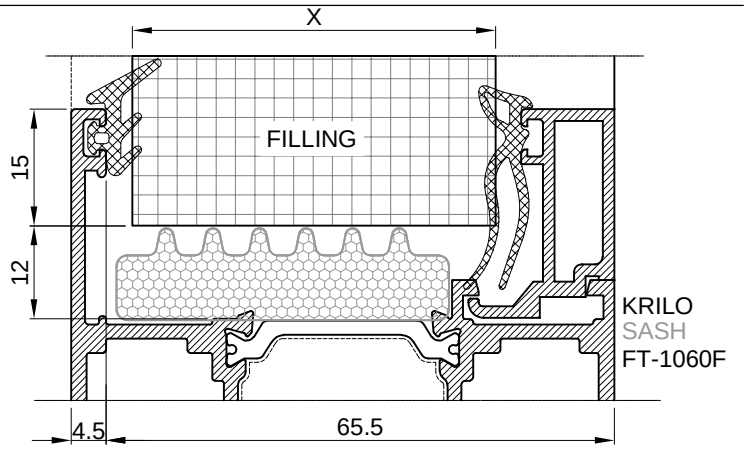
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
230.003		- Šablon za bušenje rupa za kotačiće i usmjerivač (oznaka proizvođača 763691) - Drilling template for bogie and control unit (manufacturer code 763691)	Čelik Steel	
230.004		- Šablon za bušenje 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		- Šablon za bušenje rupa za kotačića Inowa 400kg (oznaka proizvođača 894738) - Drilling template for bogie Inowa 400 kg (manufacturer code 894738)	Čelik Steel	
230.031		- Šablon za bušenje rupa na krilu za srednje ključanje (spoj krila i prečke) Inowa za krila do 400kg (oznaka proizvođača 897692) - Drilling template for sash for centre-closer (mullion and sash joint) Inowa for sashes up to 400kg (manufacturer code 897692)	Čelik Steel	
230.005		- 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		- Pneumatska presa sa linearnim mjerilom (oznaka proizvođača 350309; mjerilo 350314) - Pneumatic press with linear measure (manufacturer code 350309; measure 350314)		

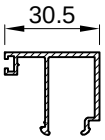
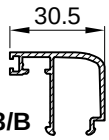
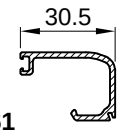
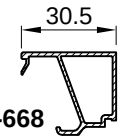
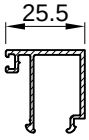
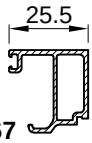
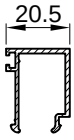
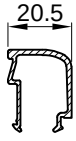
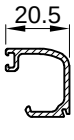
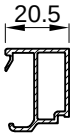
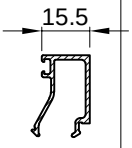
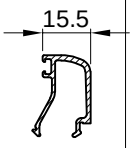
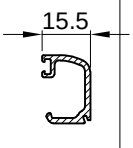
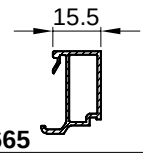
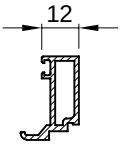
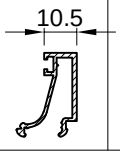
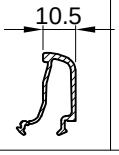
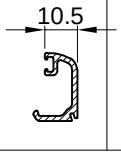
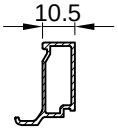
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark
230.008		- Šablon za bušenje rupa na ramu za prečku - Drilling template for frame mullion	Čelik Steel	
210.006		- Pneumatska štanca za otklopno klizni mehanizam Inowa - Pneumatic press for sliding doors Inowa		
340.013		-Izolacijska ispuna s ljepljivom trakom (43x12) -Izoterm plamaframe -Insulation filling with adhesive tape (43x12) -Isotherm plamaframe	PPE	
340.070	 M1:4	- Izolacijska ispuna (dodatna vertikalna ispuna prečke FT-1070) - Insulation filling (additional vertical filling of the FT-1070 crossbar)	XPS	
340.071		- Izolacijska ispuna (dodatna ispuna profila F-1391) - Insulation filling (additional filling of the F-1391 profile)	XPS	
340.421		- Termoblok za komoru:14,8x120 (Za profil FT-0196F) - Izolacijski umetak za spoj sa fasadom - Thermoblock for chamber: 14.8x120 (For profile FT-0196F) - Insulation insert for connection with facade	XPS	

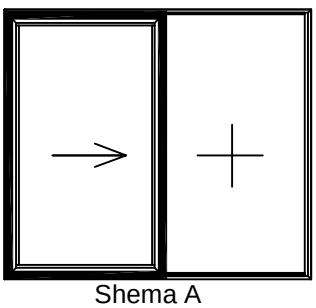
Oznaka Code	Izgled-presjek View-cross section	Opis Description	Materijal Material	Napomena Remark

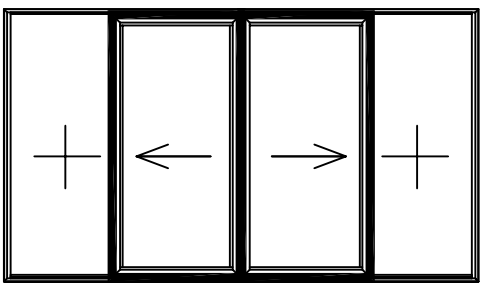
Prikaz stakljenja
Glazing

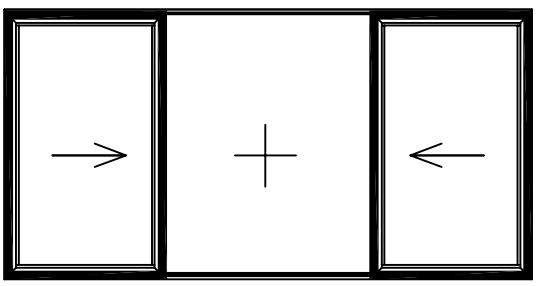
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets		
328.003	328.002	318.002	311.003	311.004
				

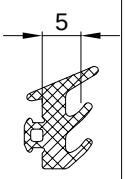
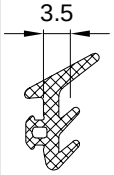
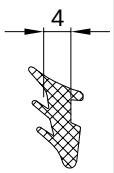
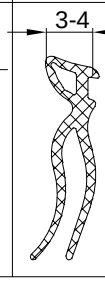
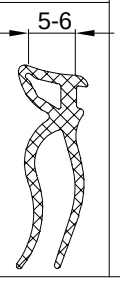


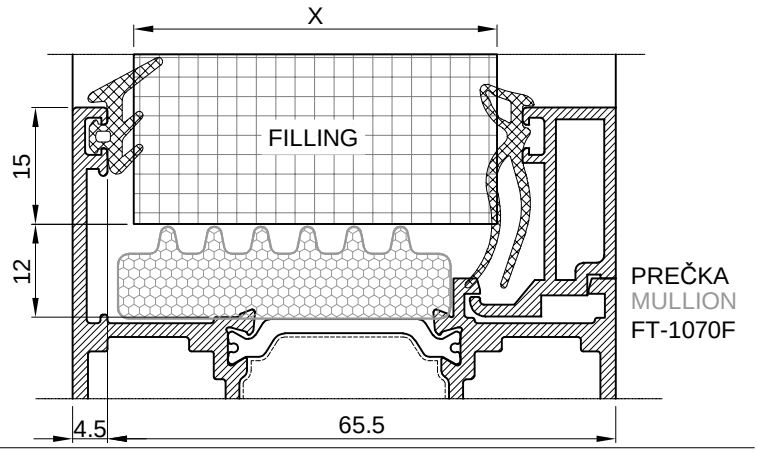
Ispuna X Glazing X	Vanjska brtva Exterior gasket	Unutarnja brtva Interior gasket	LAJSNE ZA STAKLO GLAZING BEADS			
24	328.003	311.004	 **Z40-653**	 **Z40-653/B**	 **Z40-661**	 **Z40-668**
25-26	328.003	318.002				
27-28	328.002	311.003 (318.002)				
29	328.003	311.004	 **Z40-658**			 **Z40-667**
30-31	328.003	318.002				
32-33	328.002	311.003 (318.002)				
34	328.003	311.004	 **Z40-644**	 **Z40-646**	 **Z40-648**	 **Z40-666**
35-36	328.003	318.002				
37	328.002	318.002				
38	328.002	311.003 (318.002)				
39	328.003	311.004	 **M45-709**	 **M45-740**	 **Z40-662**	 **Z40-665**
40-41	328.003	318.002				
42	328.002	318.002				
42-43	328.003	311.004				 **F-0784**
44-45	328.002	311.004				
46	328.002	311.003 (318.002)				
44	328.003	311.004	 **Z40-636**	 **Z40-647**	 **Z40-649**	 **Z40-664**
45-46	328.003	318.002				


Shema A

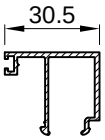
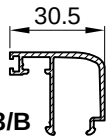
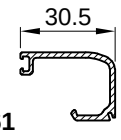
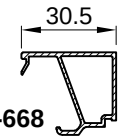
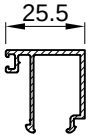
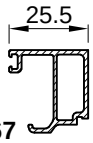
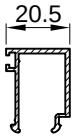
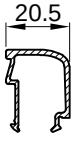
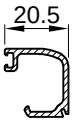
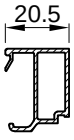
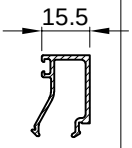
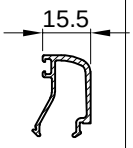
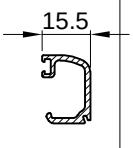
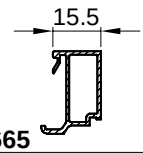
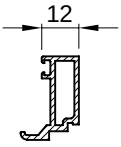
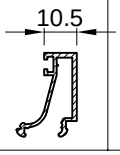
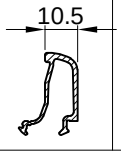
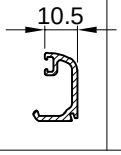
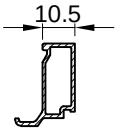

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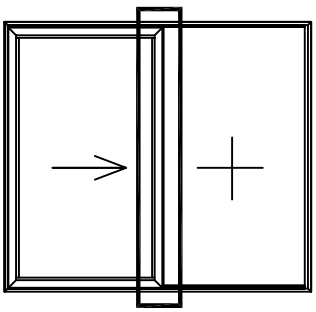

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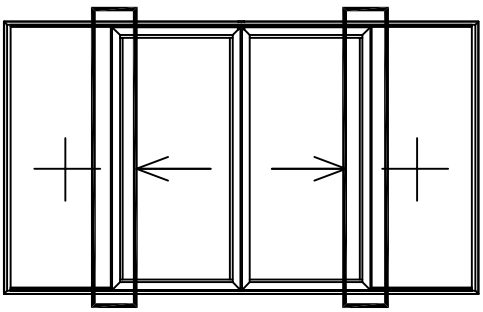
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets		
328.003	328.002	318.002	311.003	311.004
				

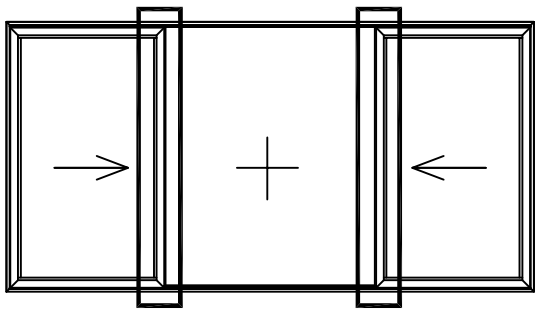


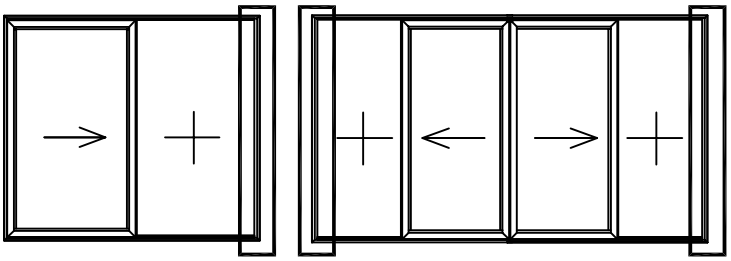
PREČKA
MULLION
FT-1070F

Ispuna X Glazing X	Vanjska brtva Exterior gasket	Unutarnja brtva Interior gasket	LAJSNE ZA STAKLO GLAZING BEADS			
24	328.003	311.004	 **Z40-653**	 **Z40-653/B**	 **Z40-661**	 **Z40-668**
25-26	328.003	318.002				
27-28	328.002	311.003 (318.002)				
29	328.003	311.004	 **Z40-658**			 **Z40-667**
30-31	328.003	318.002				
32-33	328.002	311.003 (318.002)				
34	328.003	311.004	 **Z40-644**	 **Z40-646**	 **Z40-648**	 **Z40-666**
35-36	328.003	318.002				
37	328.002	318.002				
38	328.002	311.003 (318.002)				
39	328.003	311.004	 **M45-709**	 **M45-740**	 **Z40-662**	 **Z40-665**
40-41	328.003	318.002				
42	328.002	318.002				
42-43	328.003	311.004				 **F-0784**
44-45	328.002	311.004				
46	328.002	311.003 (318.002)				
44	328.003	311.004	 **Z40-636**	 **Z40-647**	 **Z40-649**	 **Z40-664**
45-46	328.003	318.002				


Shema A

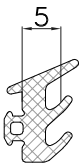
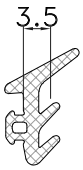
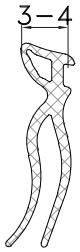

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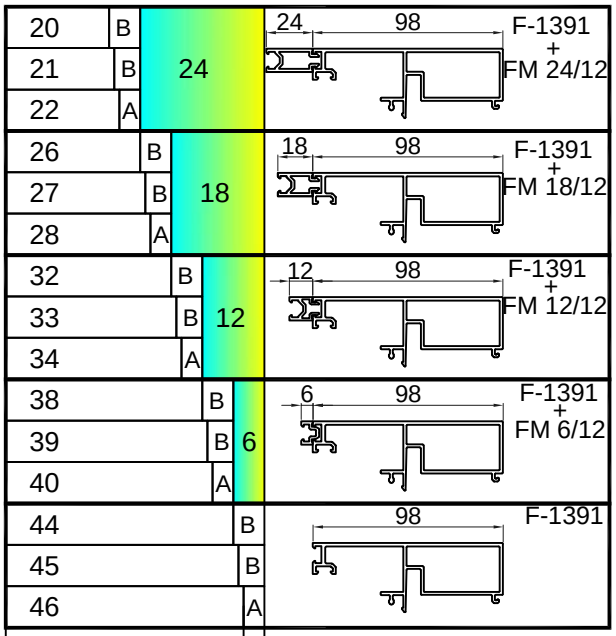

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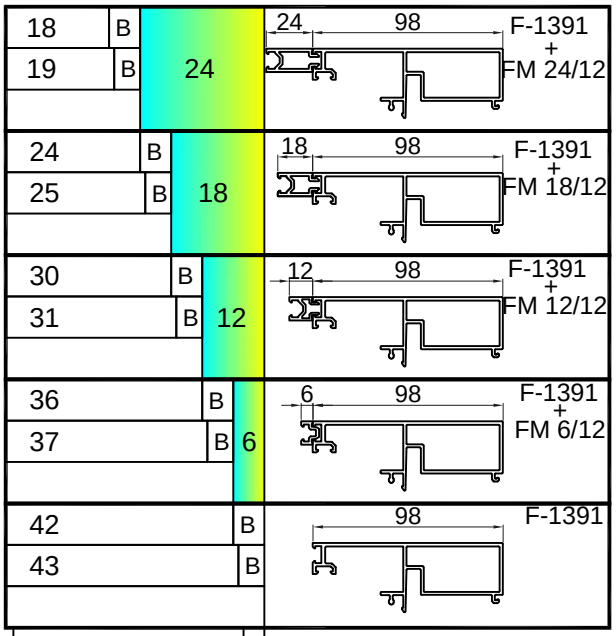


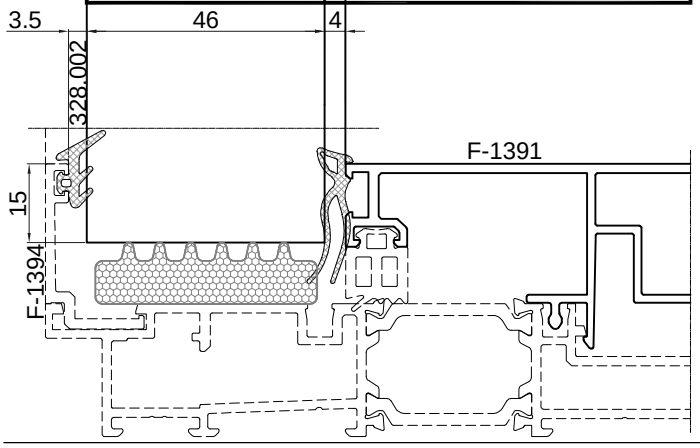
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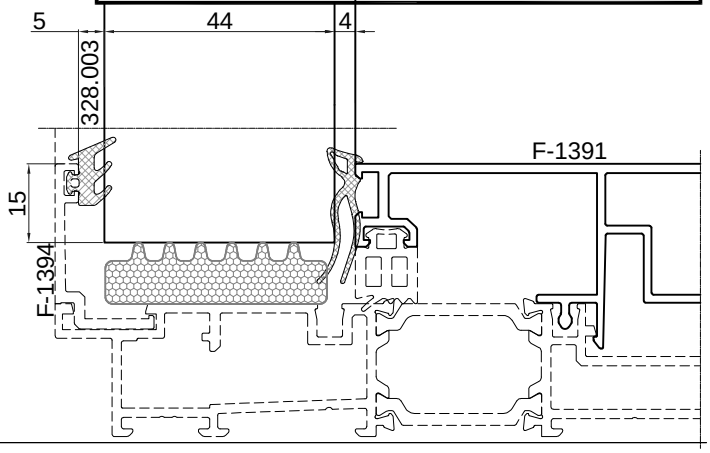
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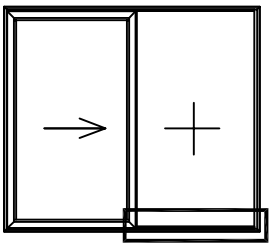
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
328.003 (Z113)	328.002 (Z111)	311.003	311.004
			
		A	B



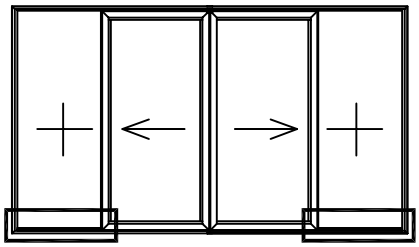




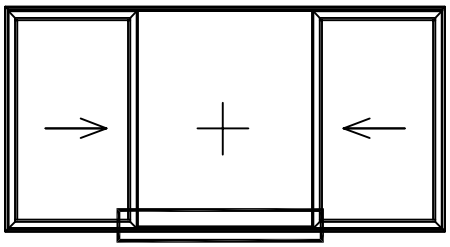




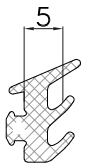
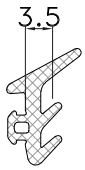
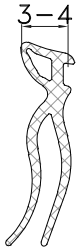
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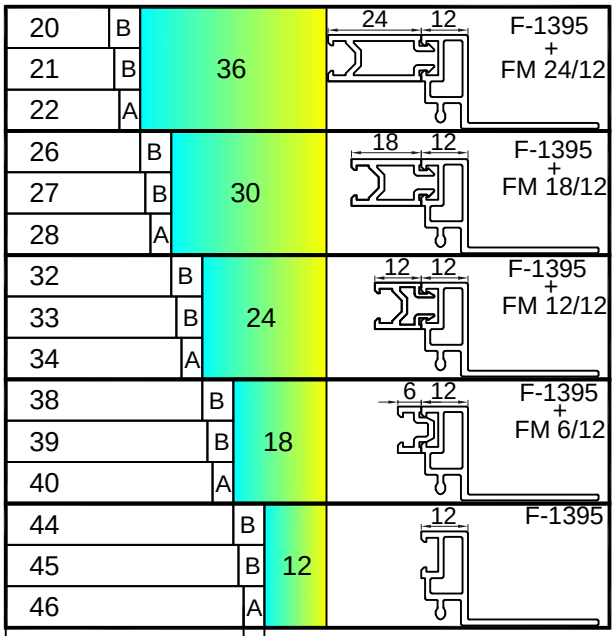


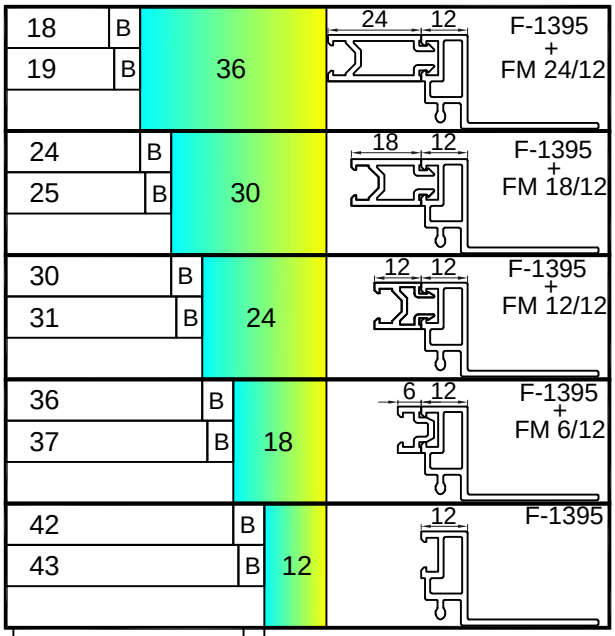
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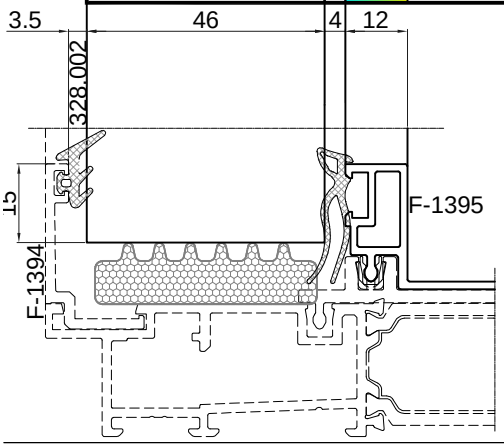


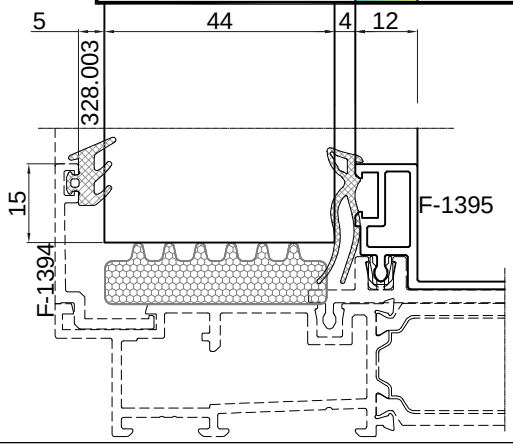
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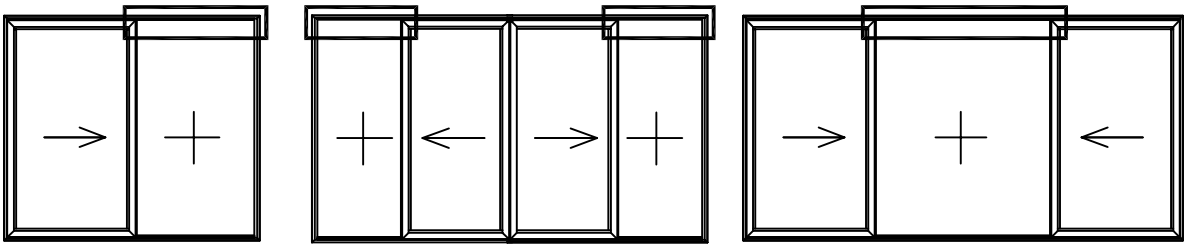
Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
328.003 (Z113)	328.002 (Z111)	311.003	311.004
			
		A	B



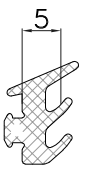
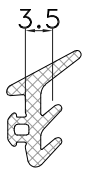
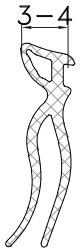


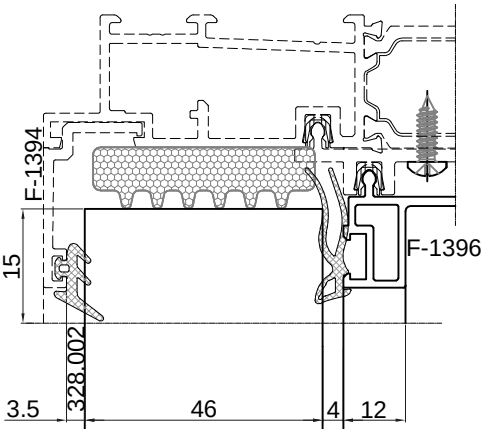


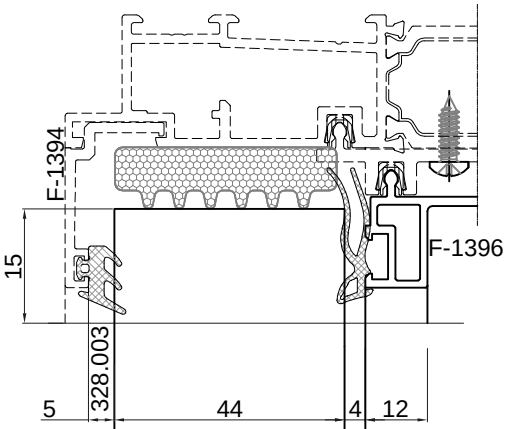


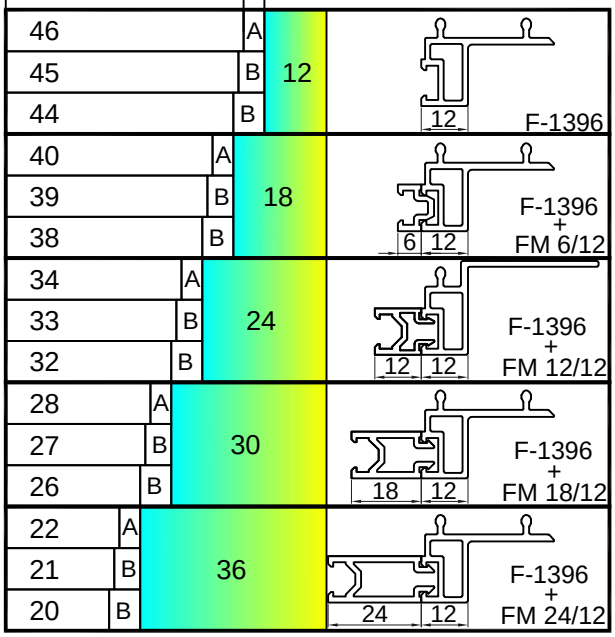


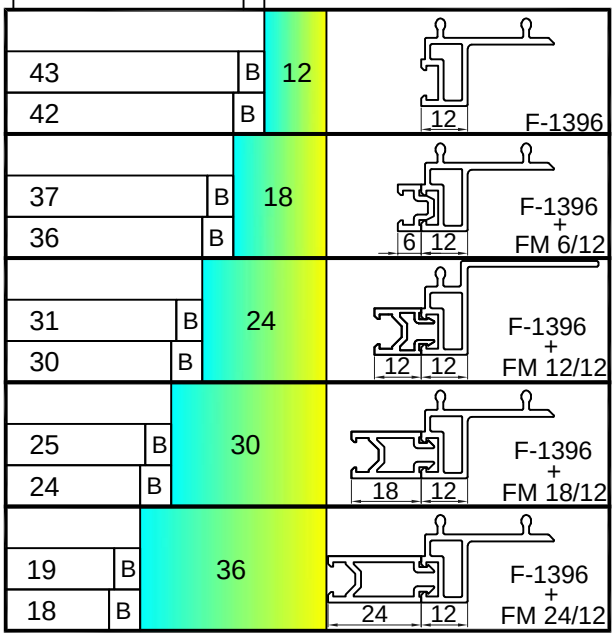
Shema A | Shema C | Shema K

Vanjske brtve Exterior gaskets		Unutarnje brtve Interior gaskets	
328.003 (Z113)	328.002 (Z111)	311.003	311.004
			
		A	B

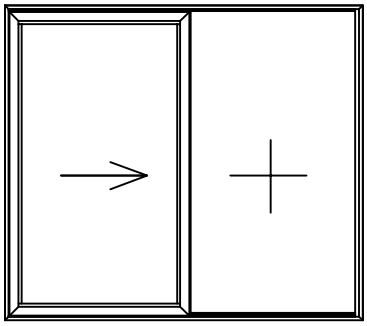




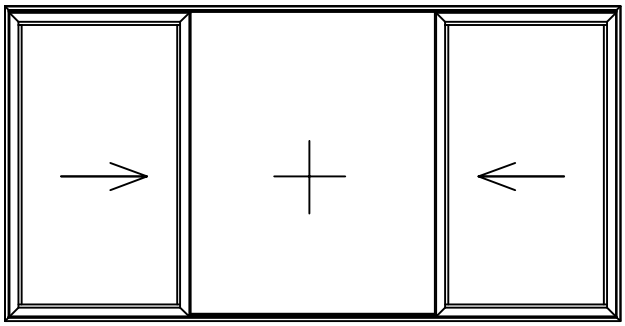




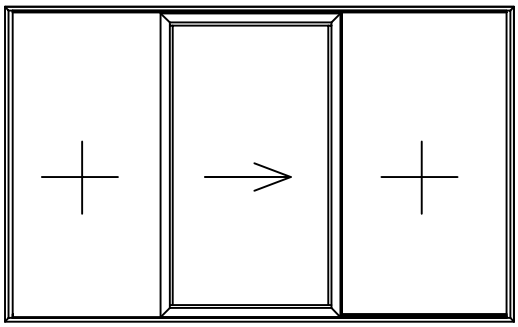
Presjeci
Cross sections



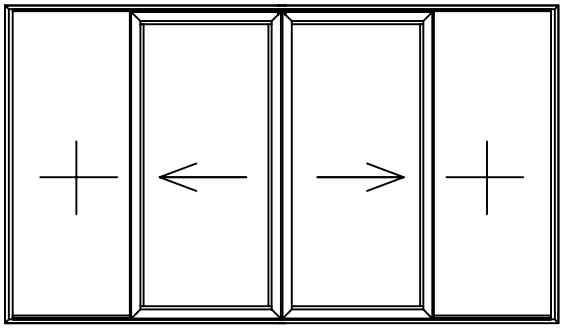
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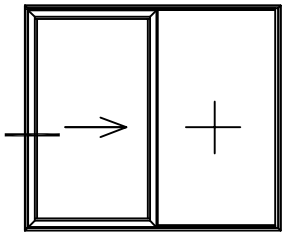
Shema K



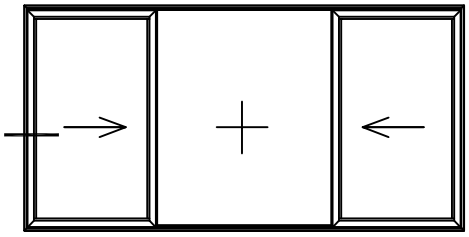
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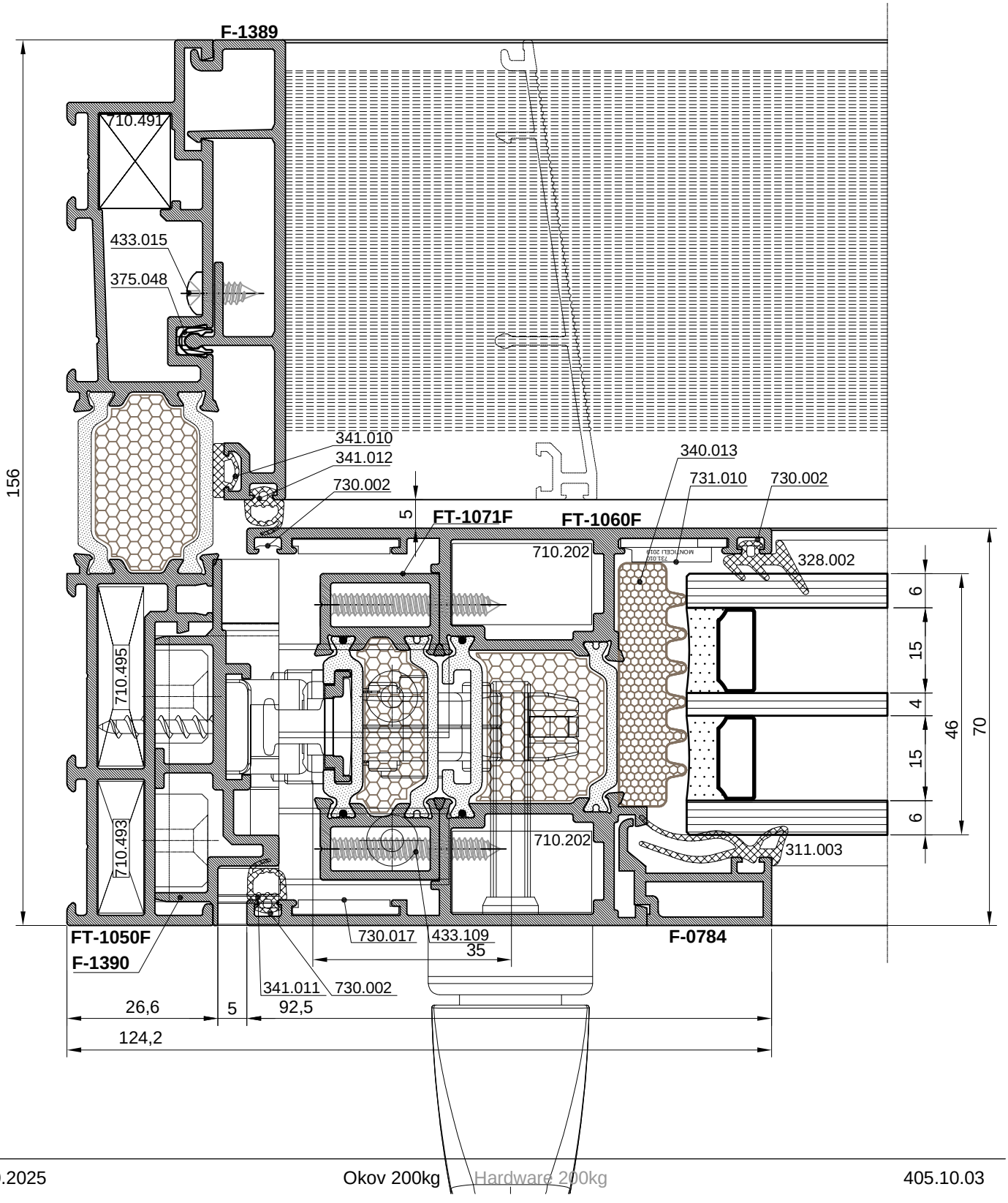
Shema C

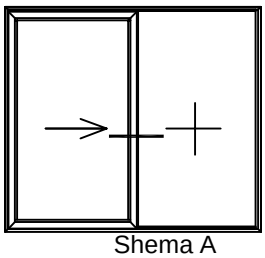


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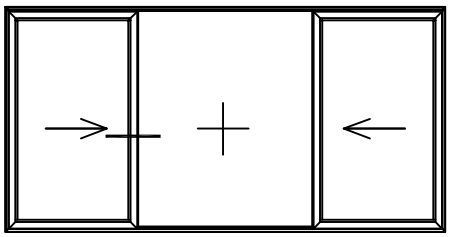


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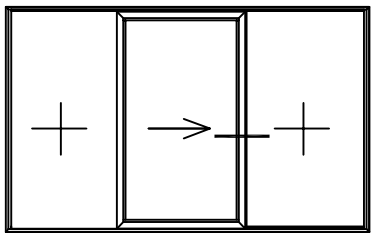




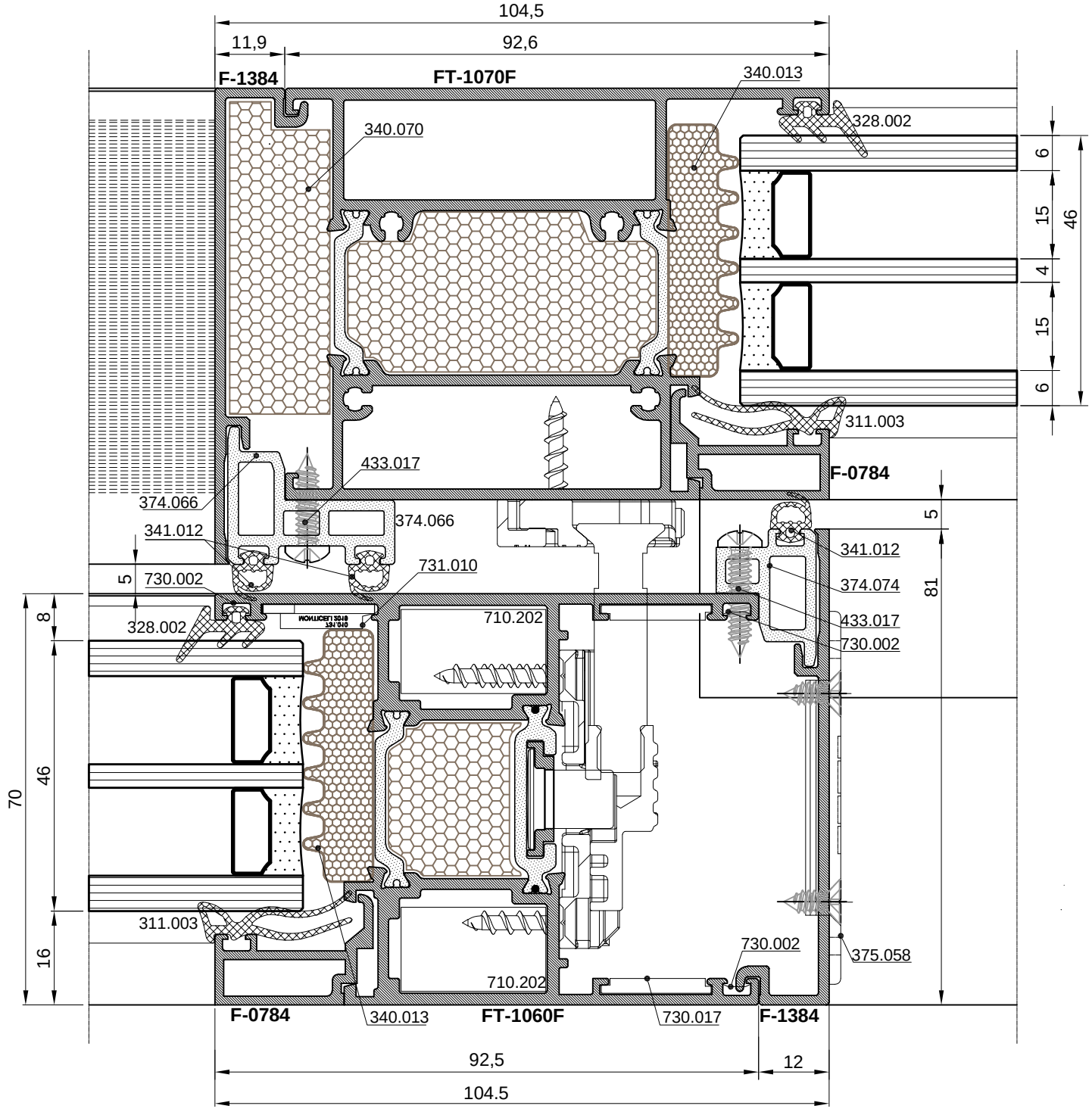
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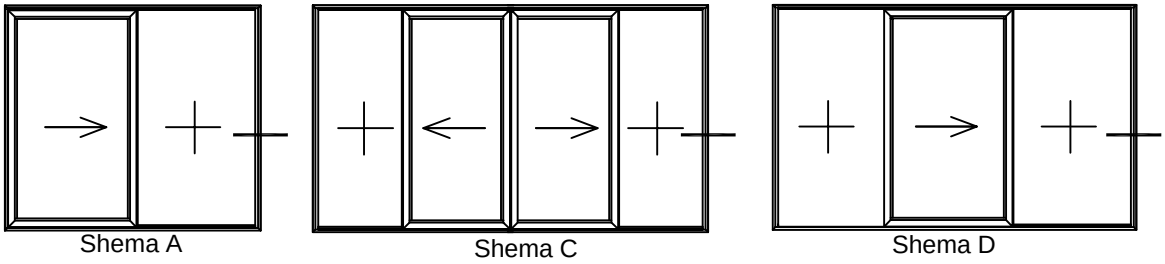


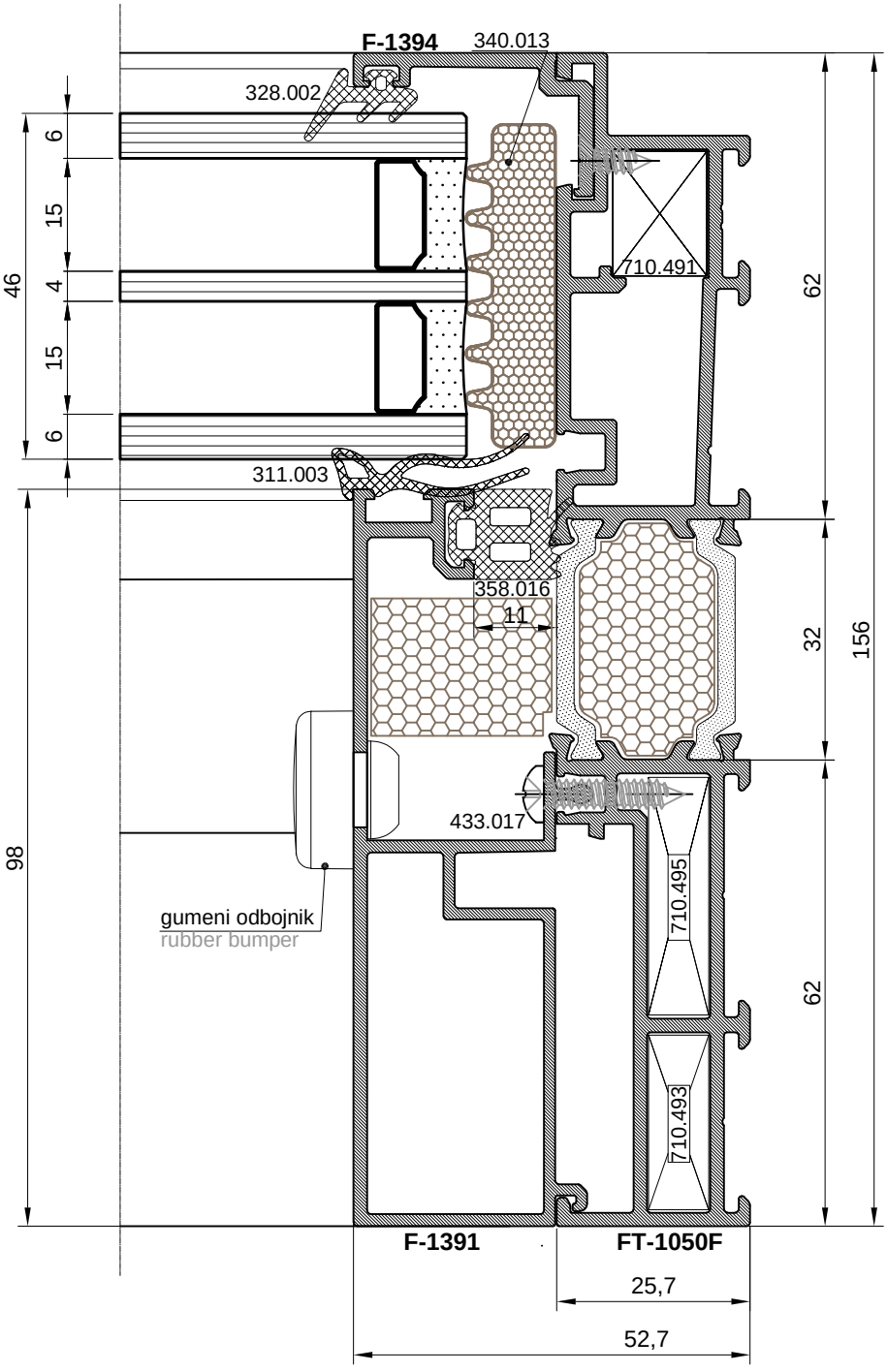
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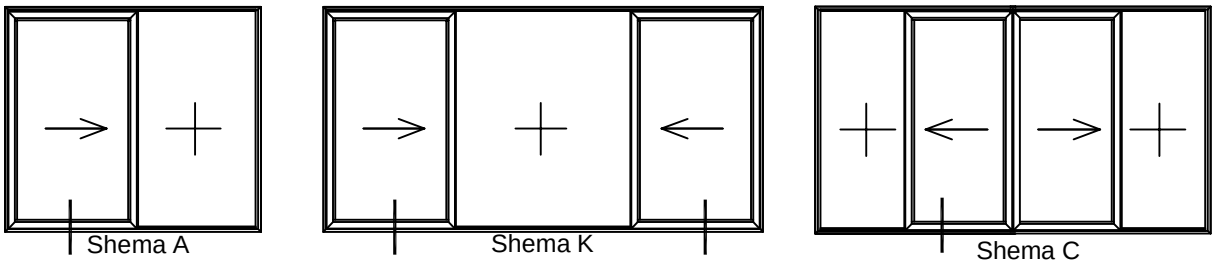


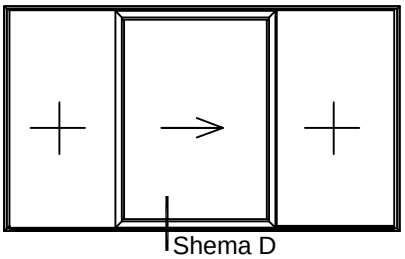
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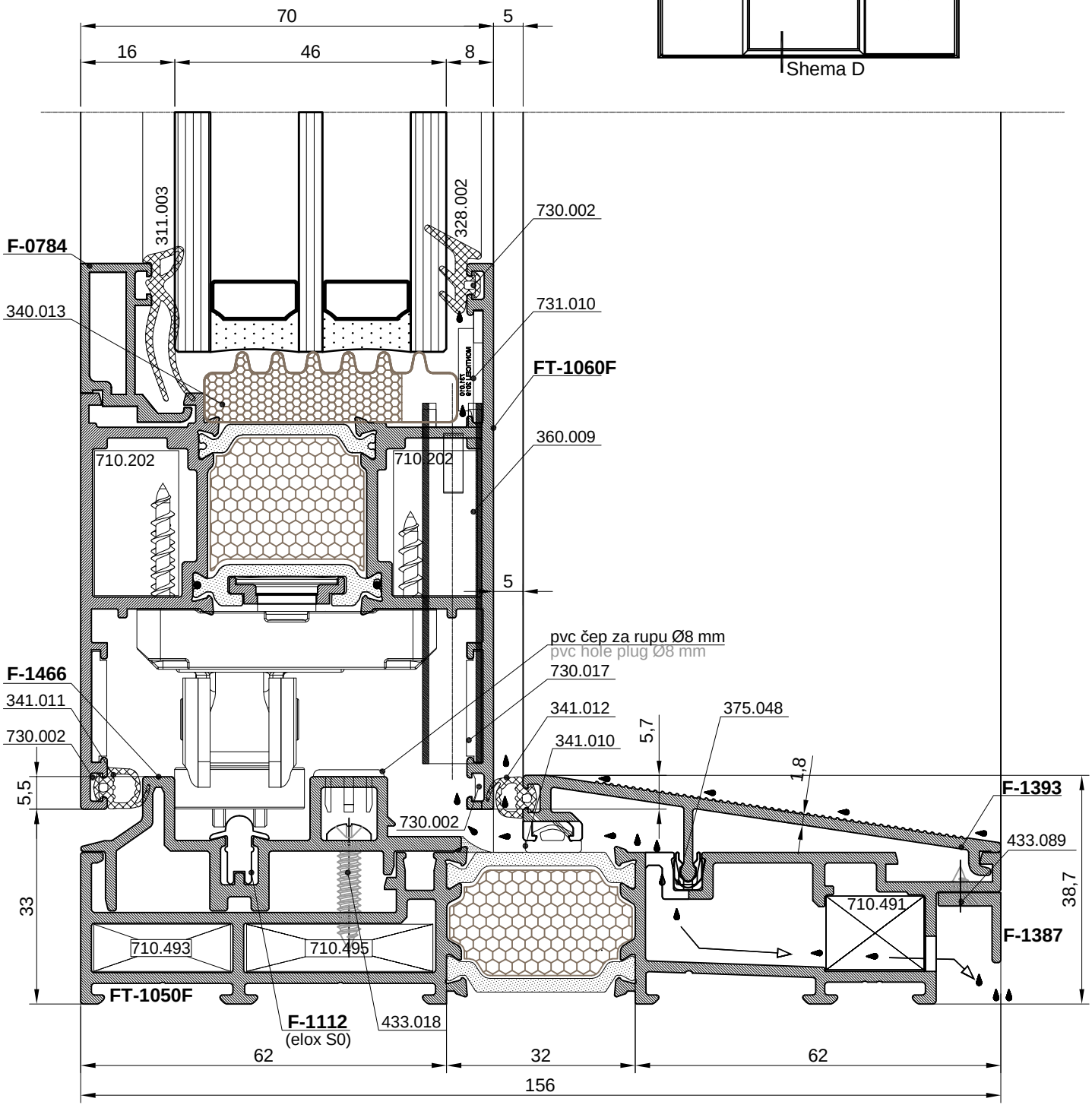


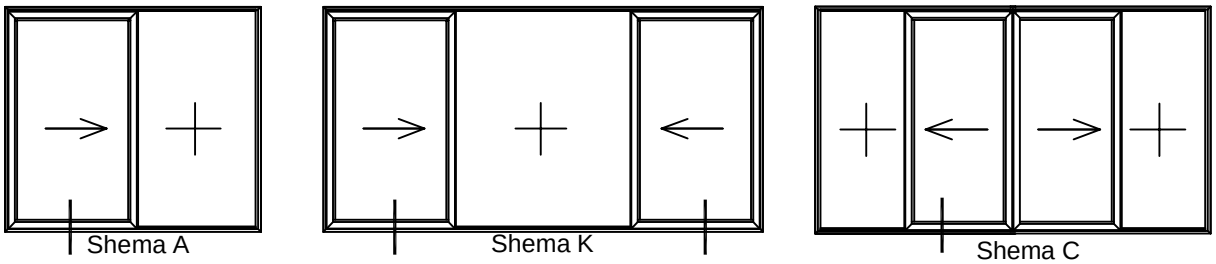

Shema A
Shema C
Shema D

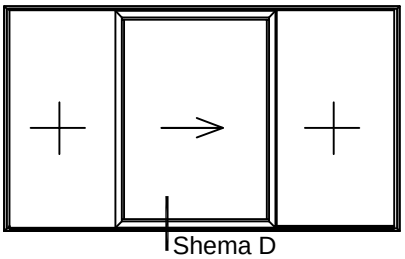

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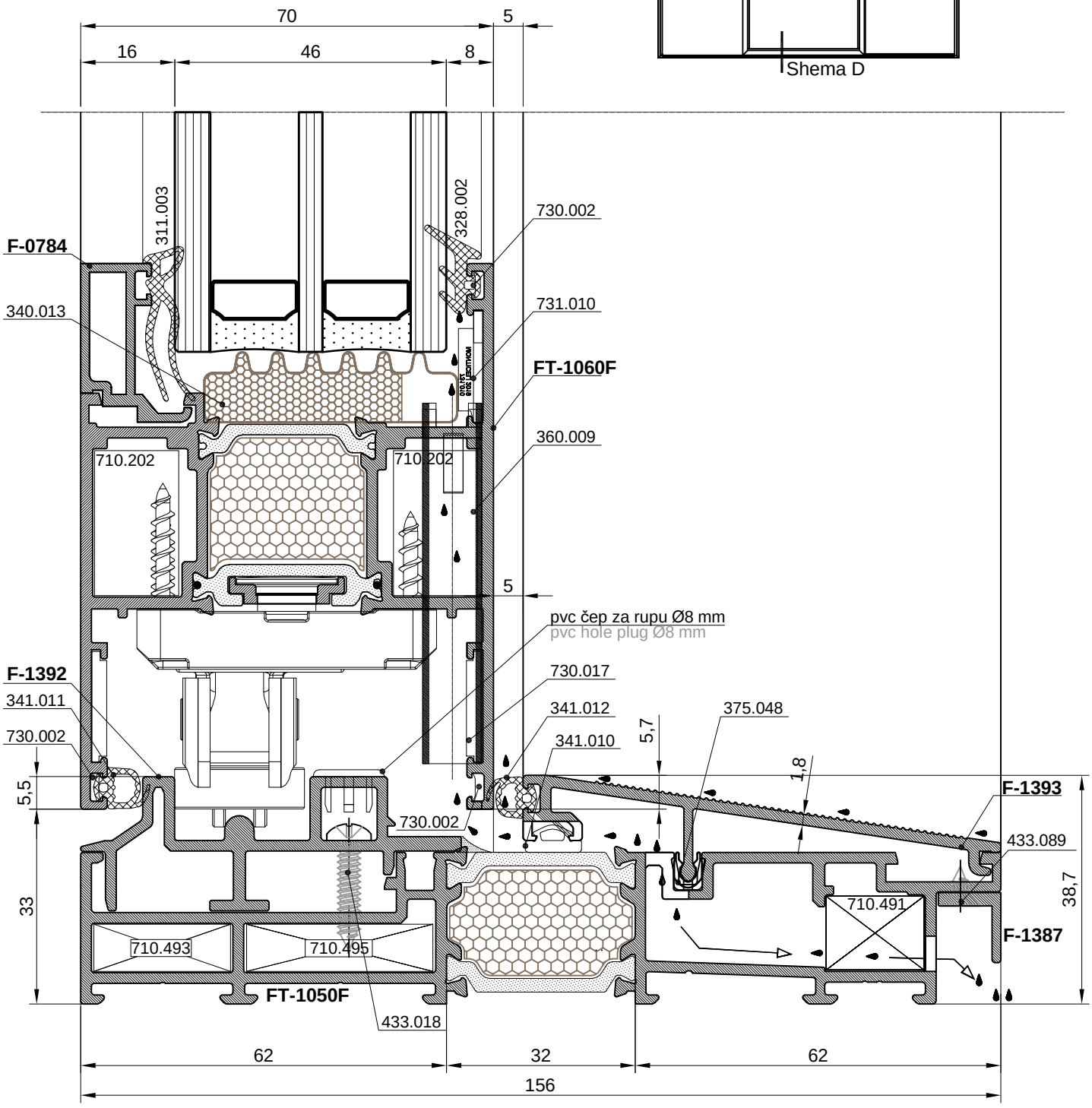

Shema A
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Shema C

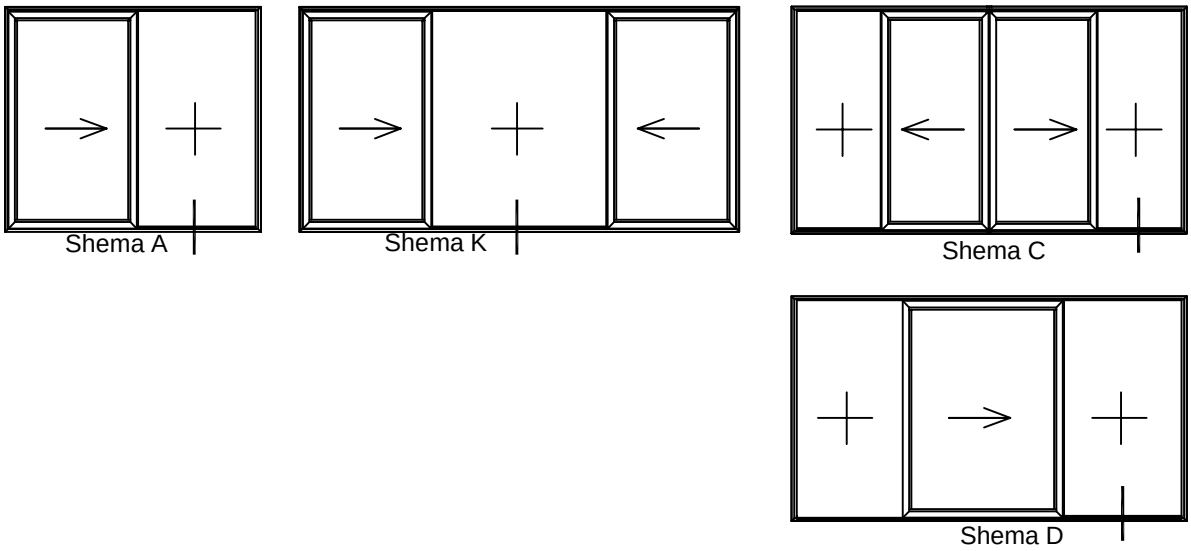

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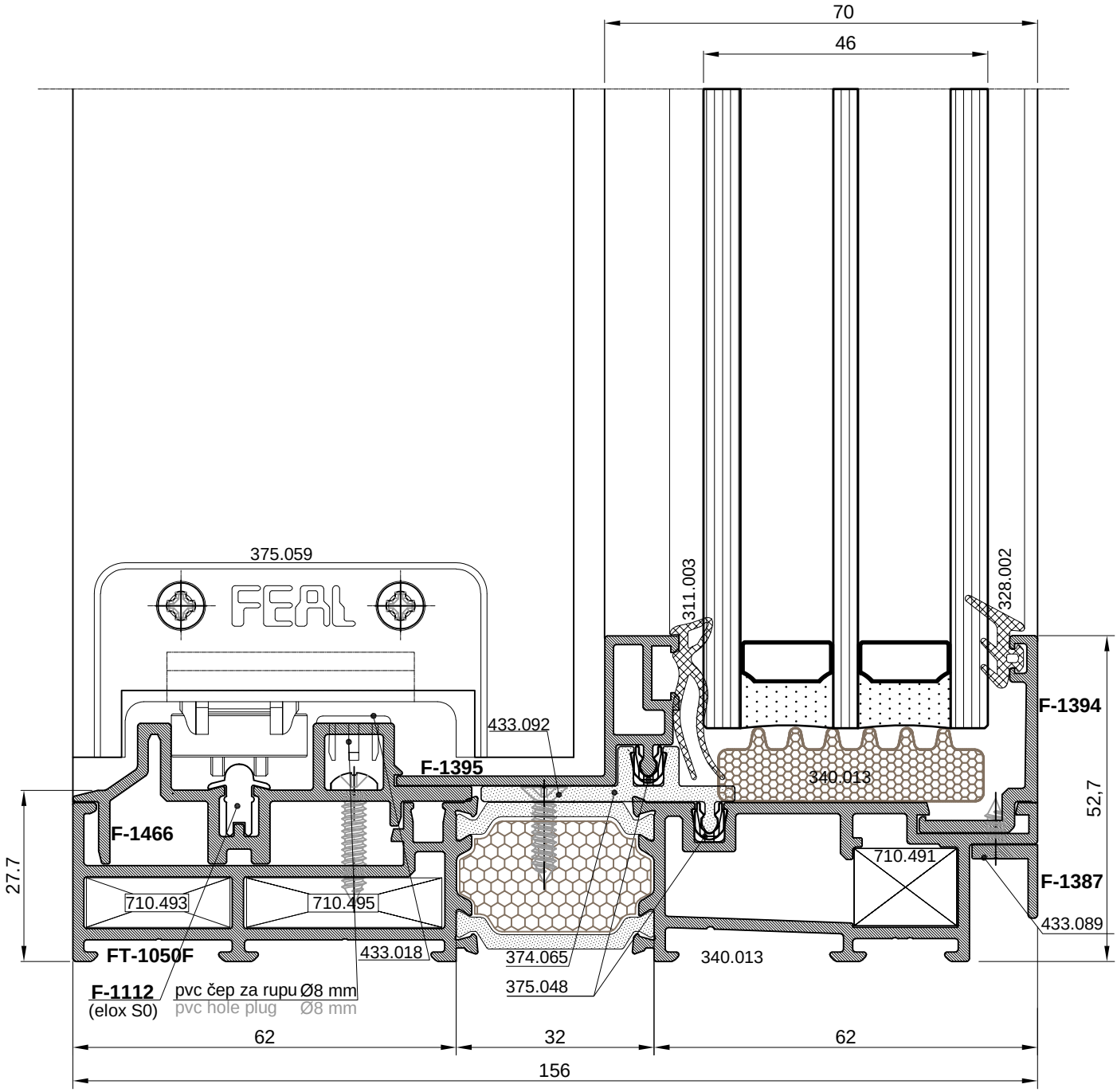

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pvc hole plug Ø8 mm
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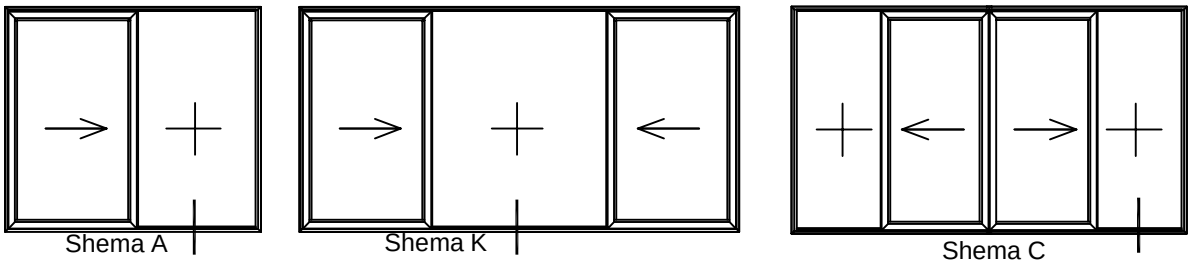

Shema A
Shema K
Shema C

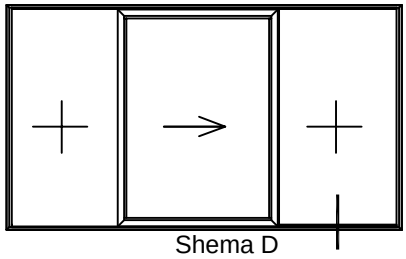

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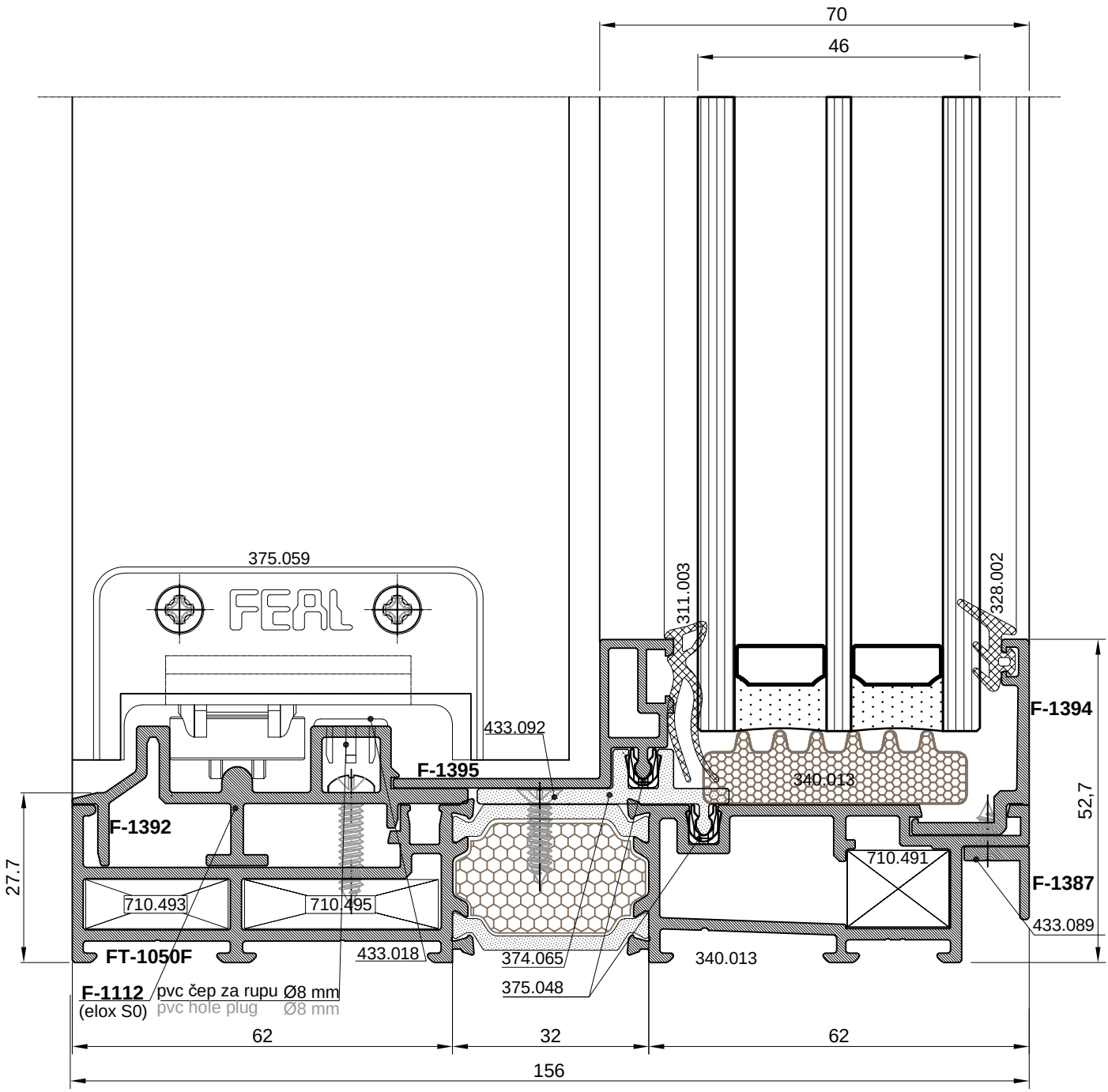

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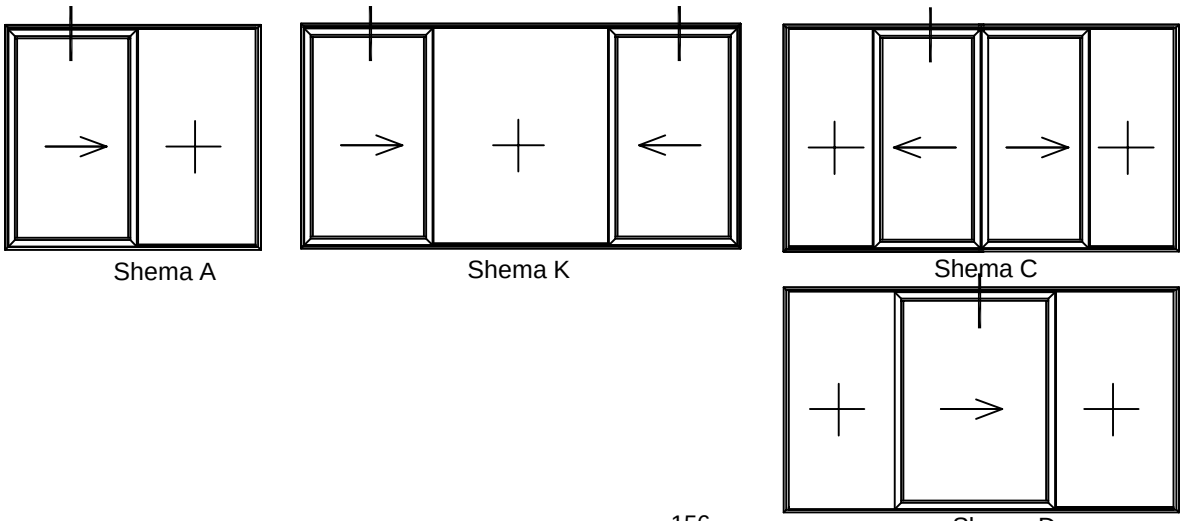

Shema A
Shema K
Shema C
Shema D

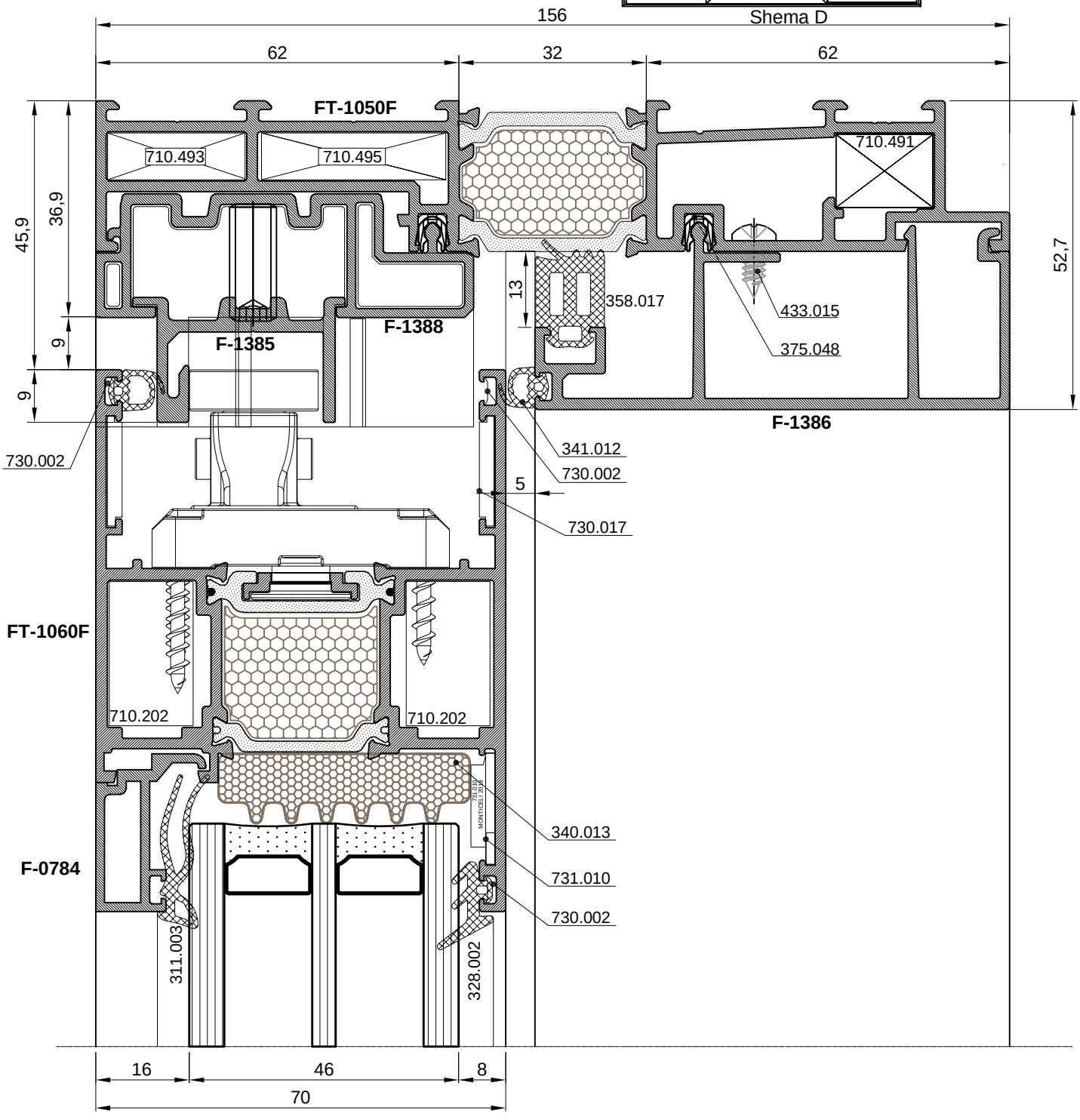

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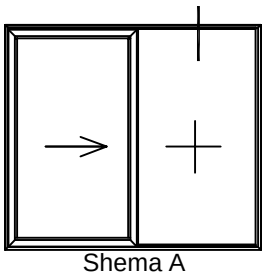

Shema A
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Shema D

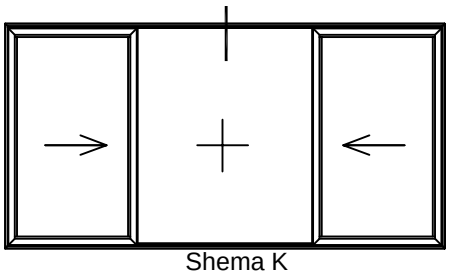

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pvc hole plug Ø8 mm
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Shema A
Shema K
Shema C
Shema D

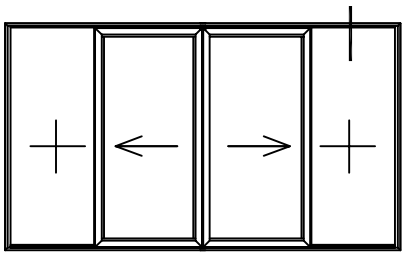

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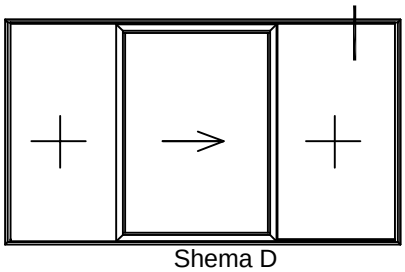
Shema A



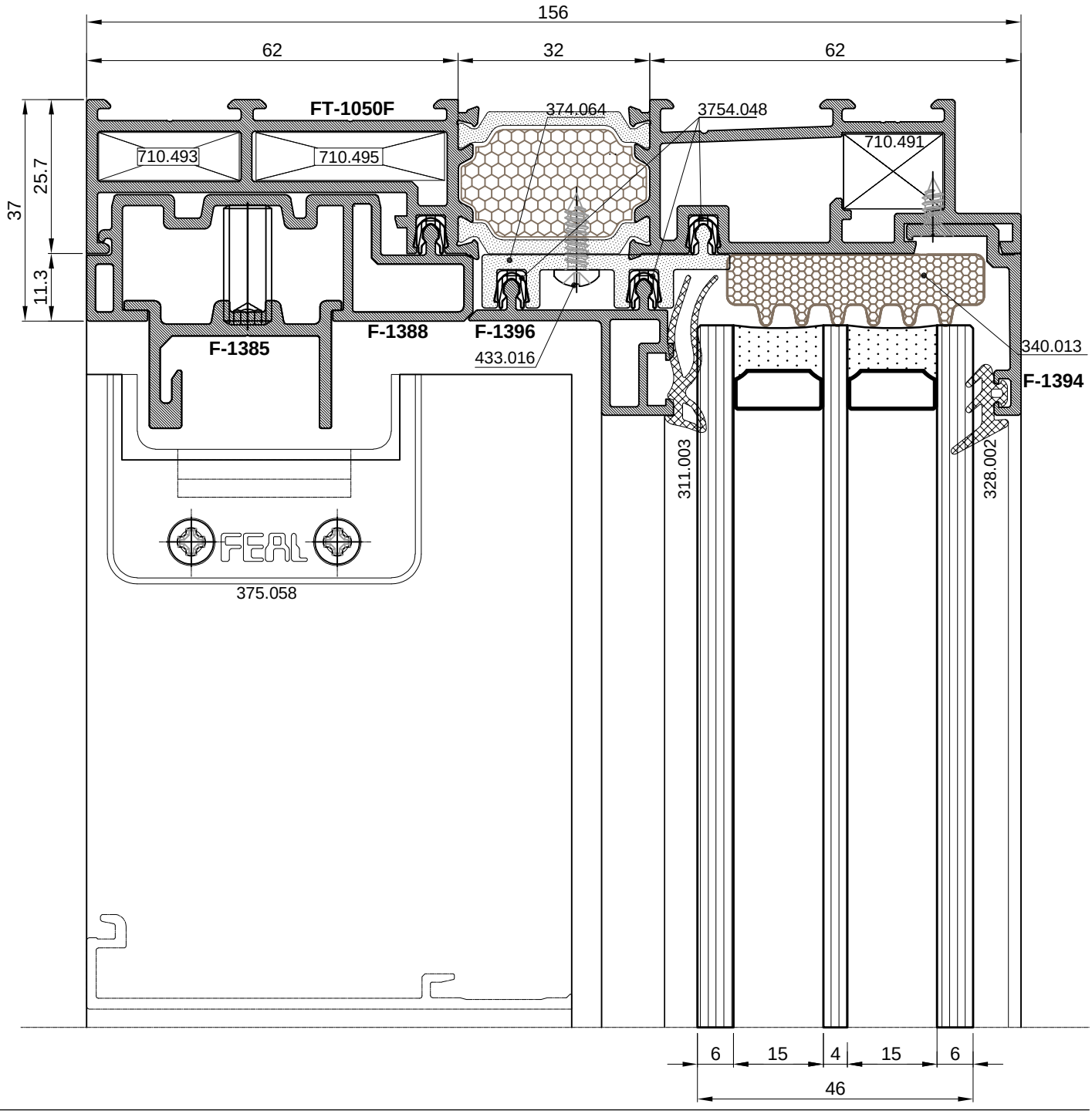
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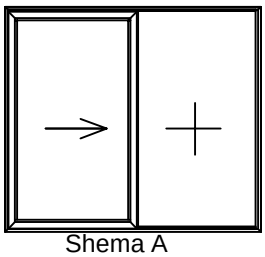


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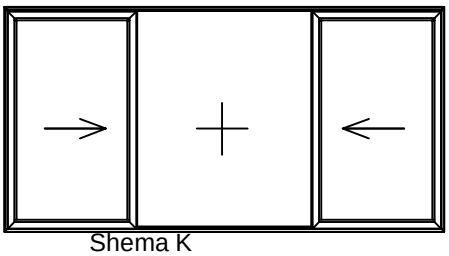


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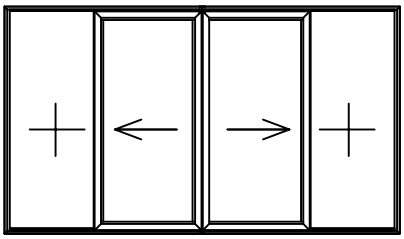




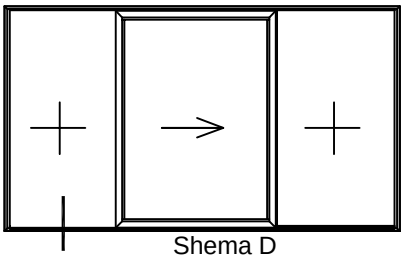
Shema A



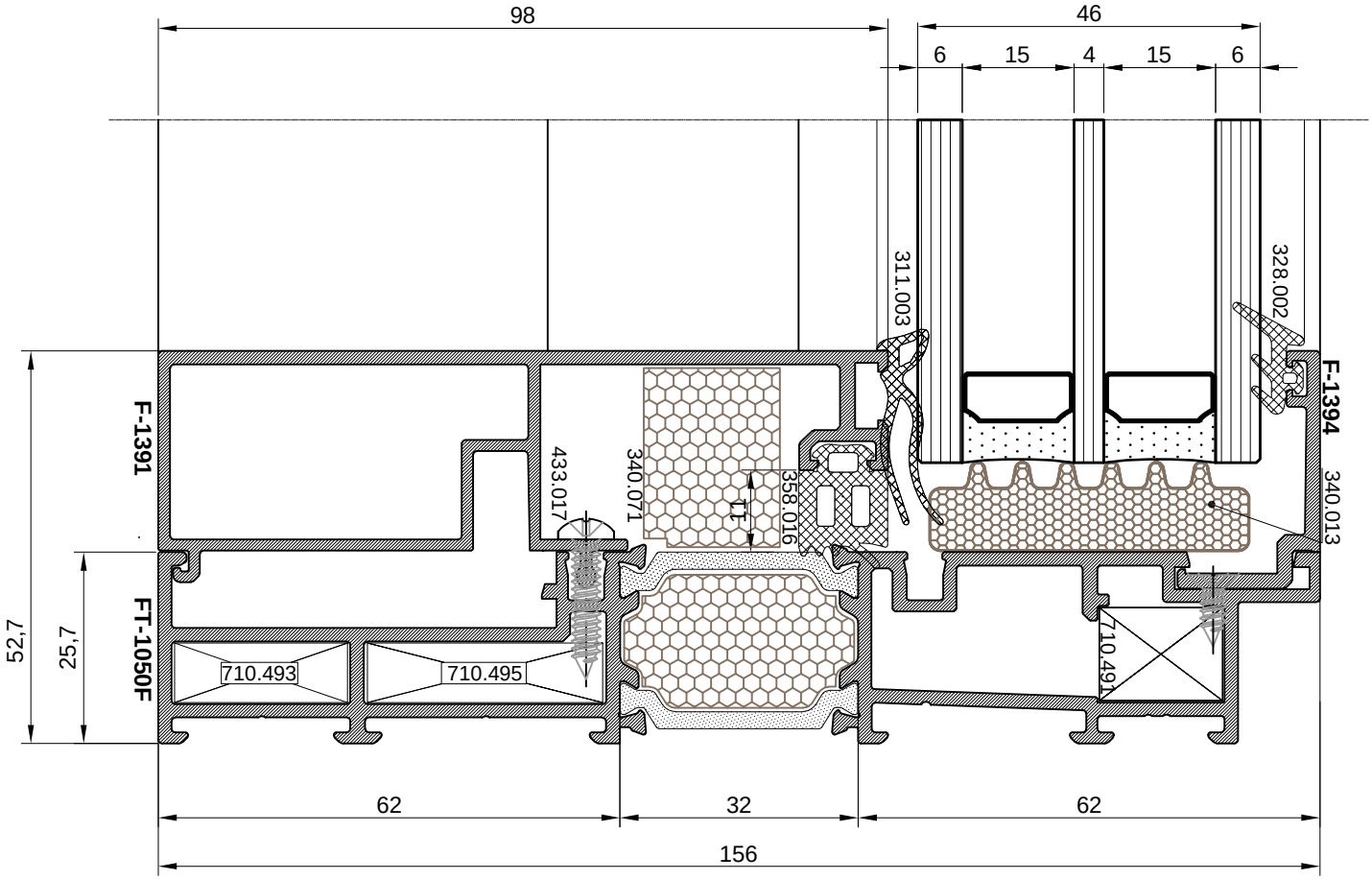
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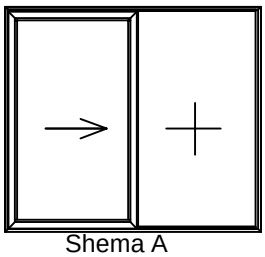


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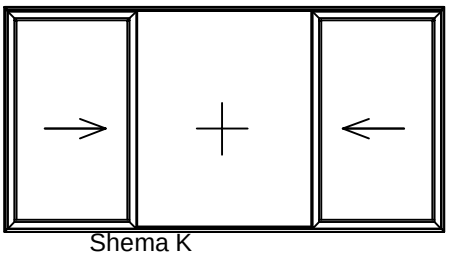


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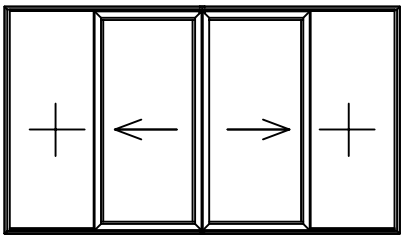




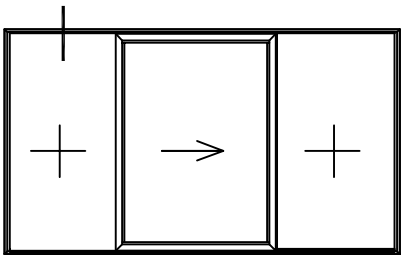
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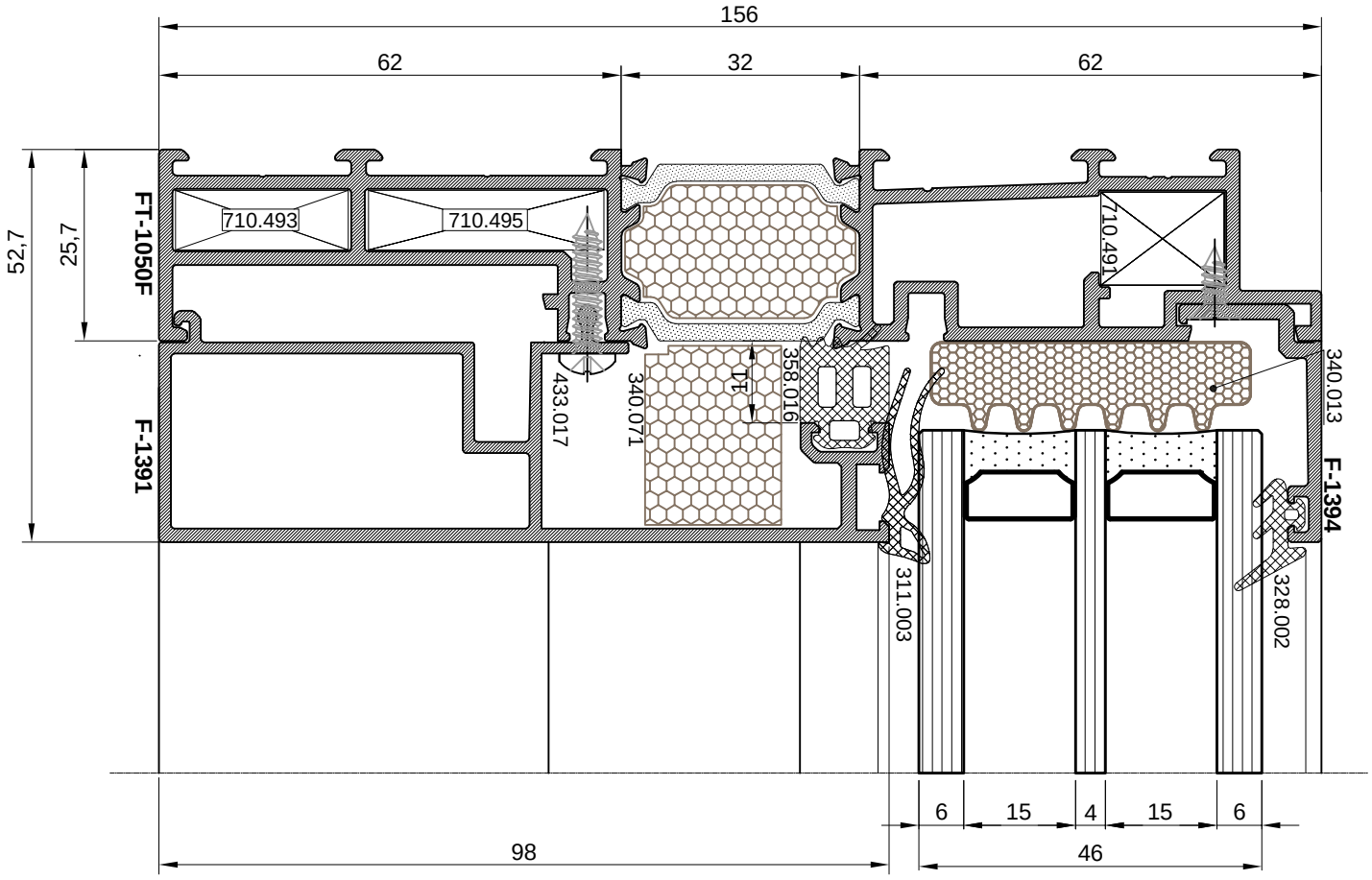
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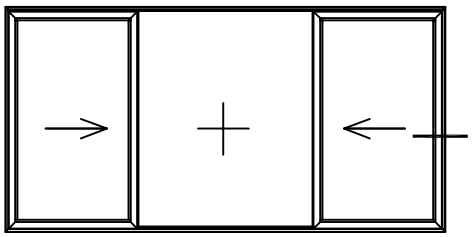


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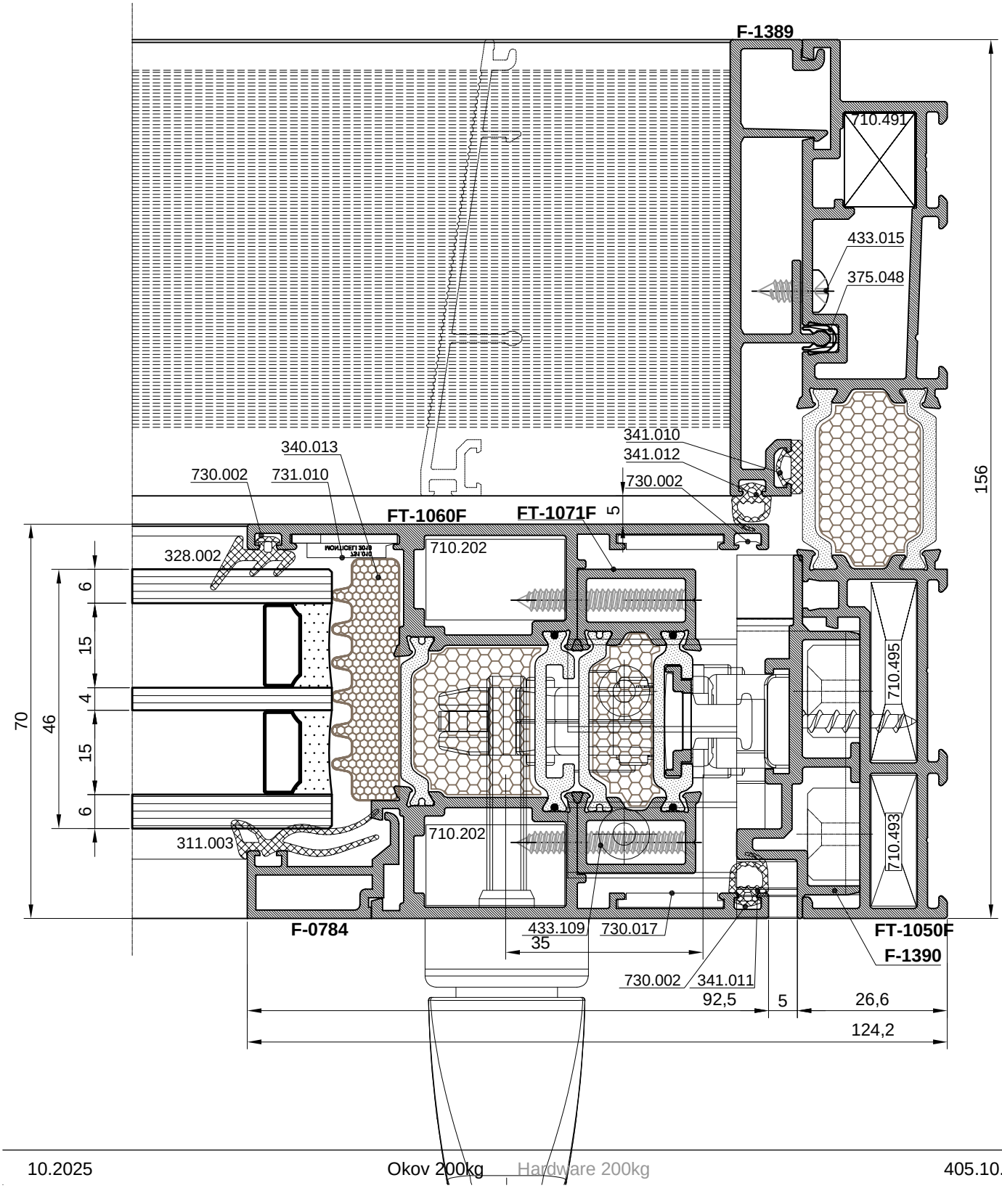


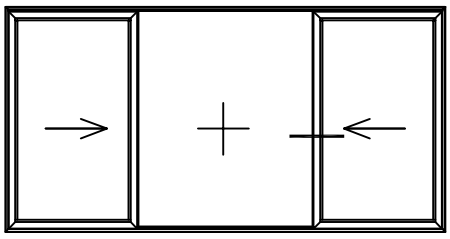
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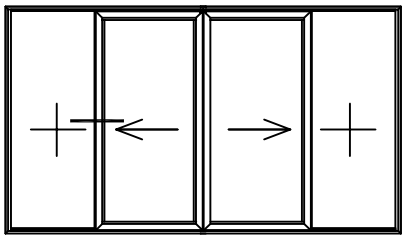


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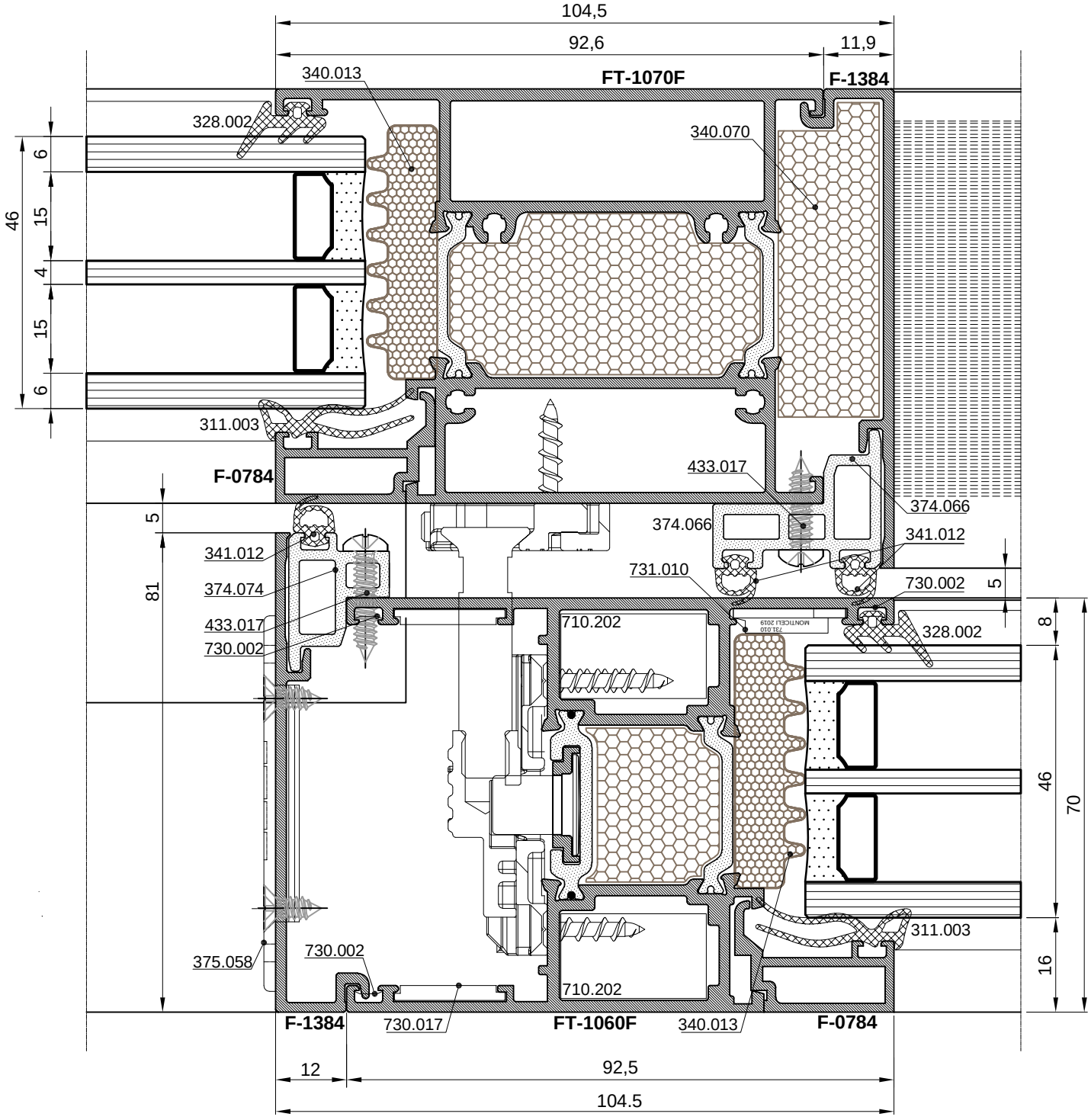

F-1389
710.491
433.015
375.048
340.013
730.002
731.010
341.010
341.012
730.002
156
FT-1060F
FT-1071F
5
328.002
710.202
6
15
4
15
6
70
46
710.495
710.493
311.003
710.202
F-0784
433.109
35
730.017
FT-1050F
F-1390
730.002
341.011
92,5
5
26,6
124,2

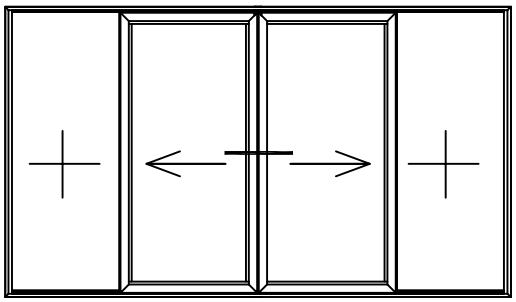


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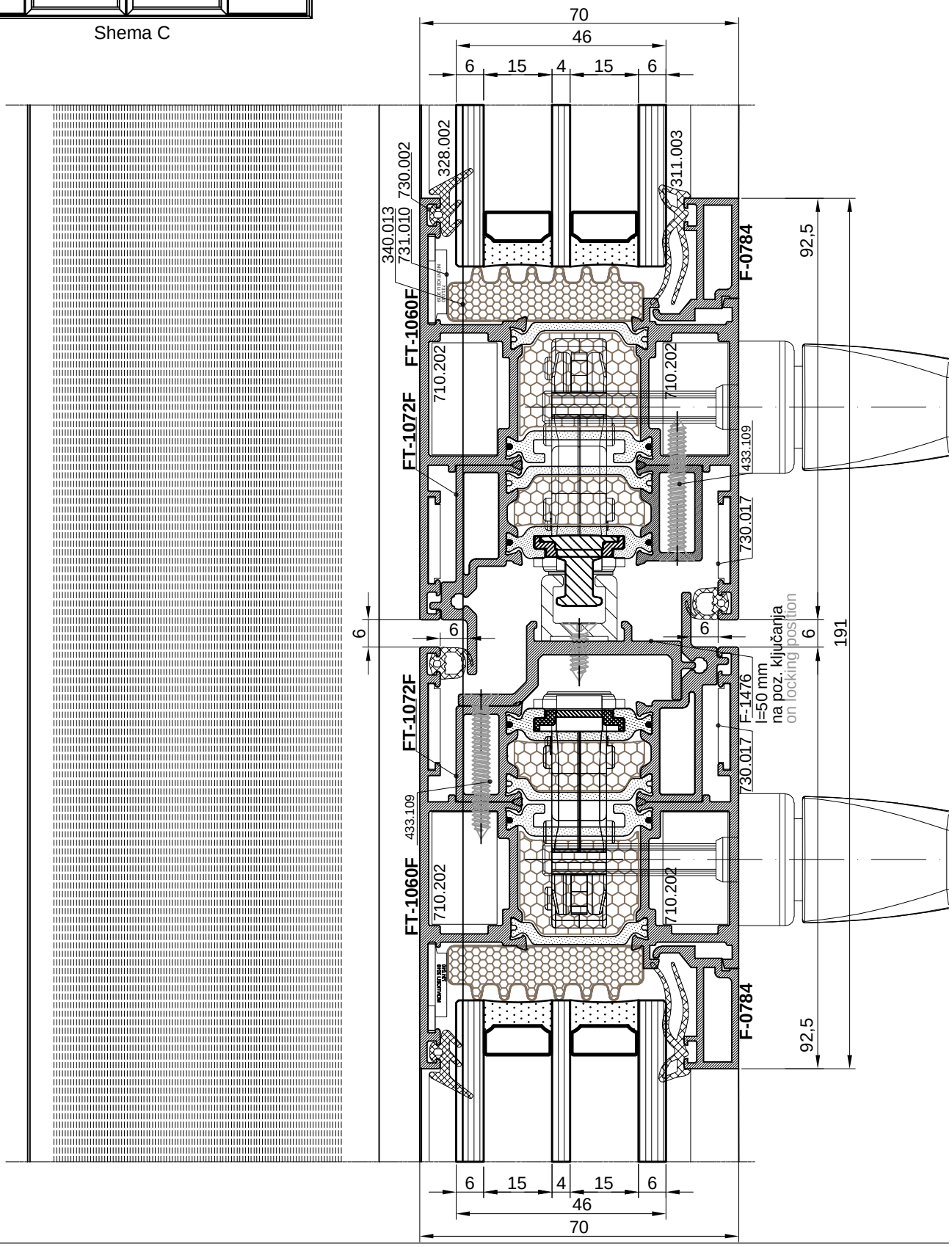


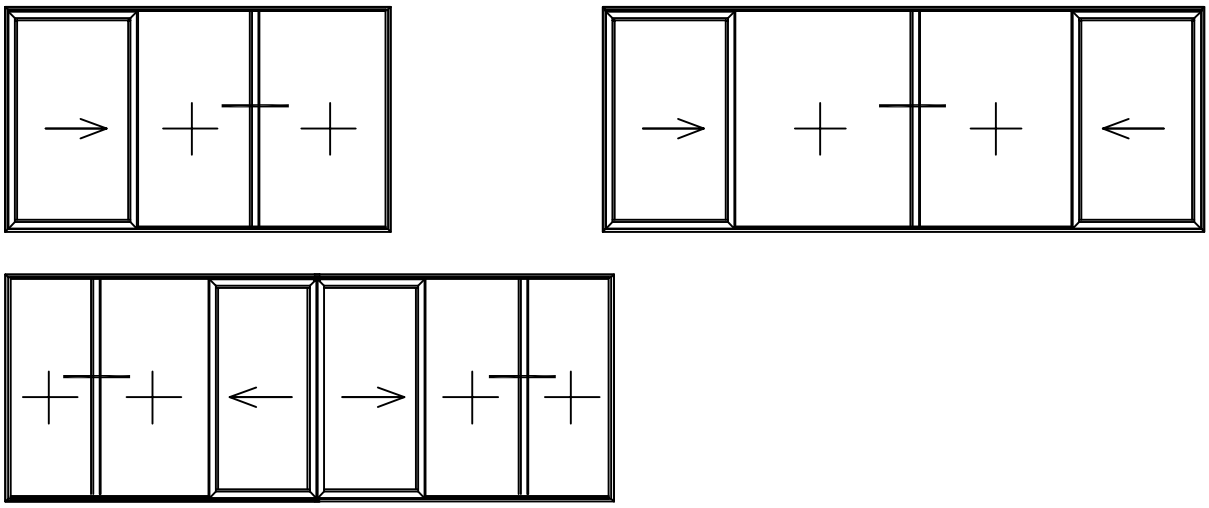
Shema C

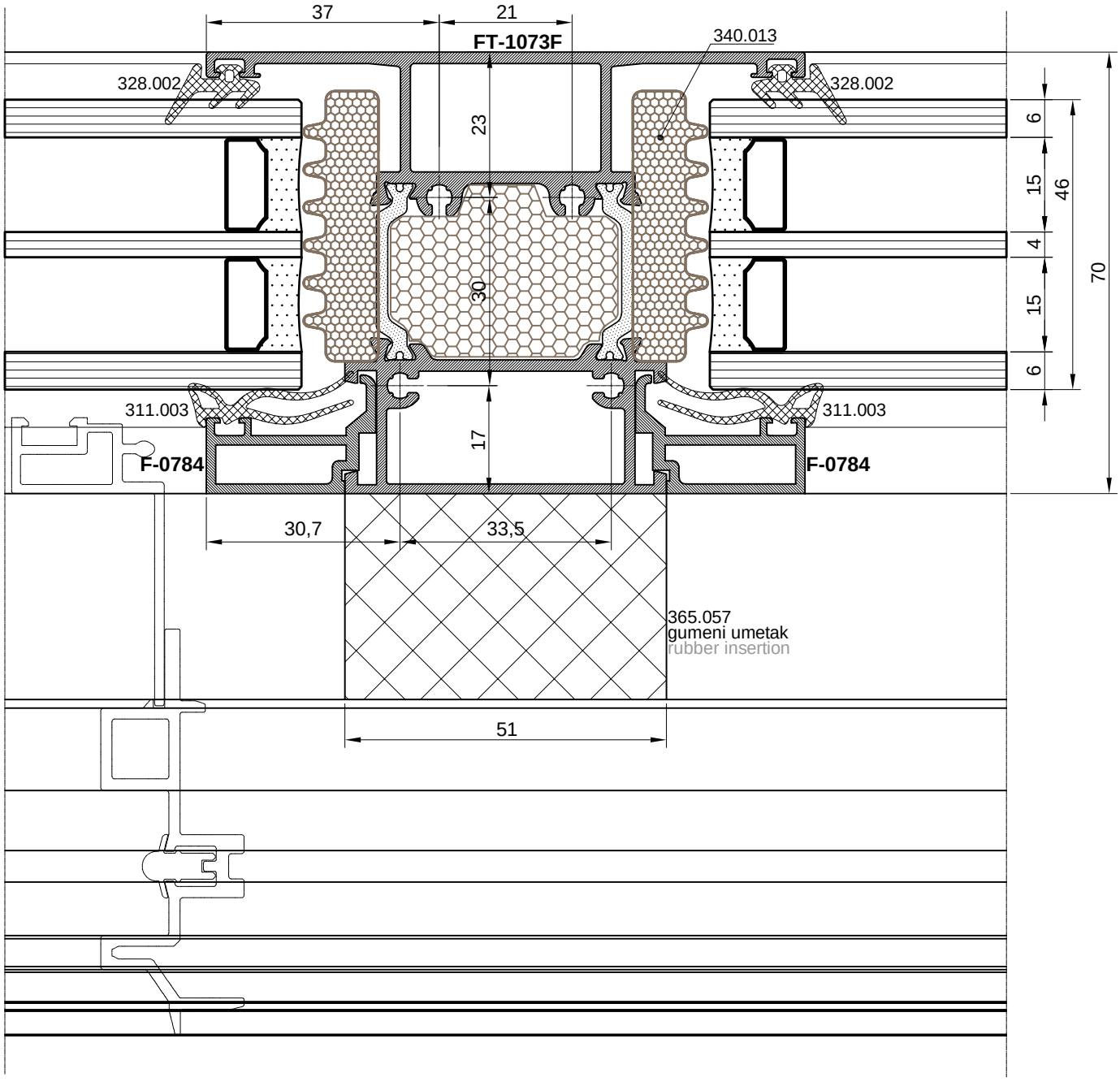


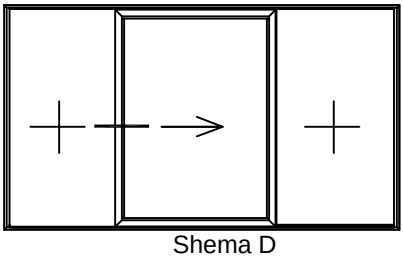


Shema C

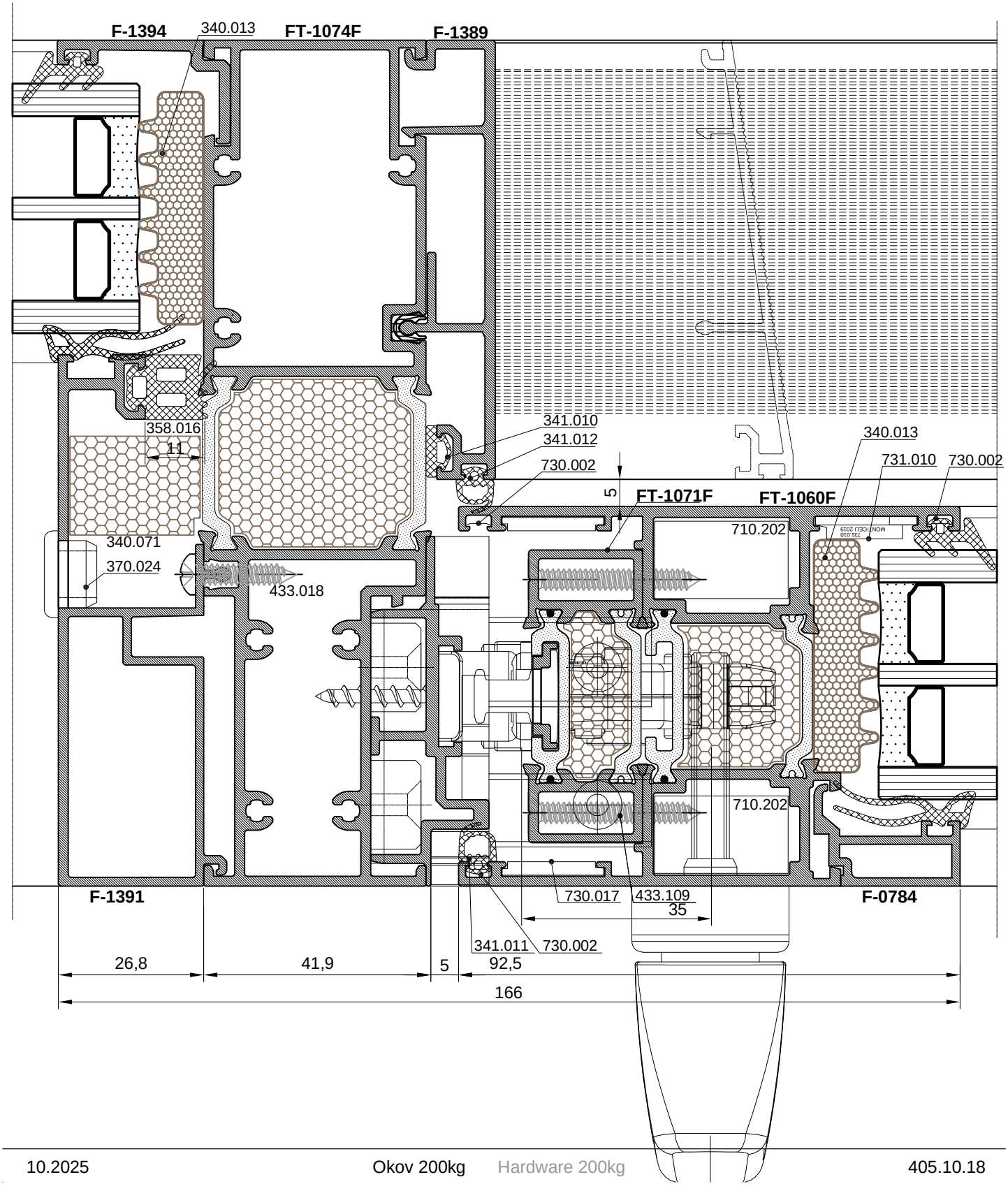

70
46
6
15
4
15
6
328.002
730.002
340.013
731.010
311.003
F-0784
92,5
FT-1060F
710.202
710.202
FT-1072F
433.109
730.017
6
6
6
6
191
FT-1072F
F-1476
l=50 mm
na poz. ključanja
on locking position
730.017
433.109
FT-1060F
710.202
710.202
F-0784
92,5
6
15
4
15
6
46
70

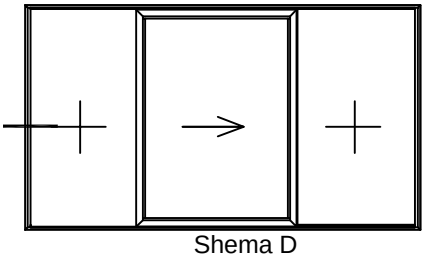



37
21
FT-1073F
340.013
328.002
328.002
23
30
6
15
4
15
6
46
70
311.003
311.003
17
F-0784
F-0784
30,7
33,5
365.057
gumeni umetak
rubber insertion
51

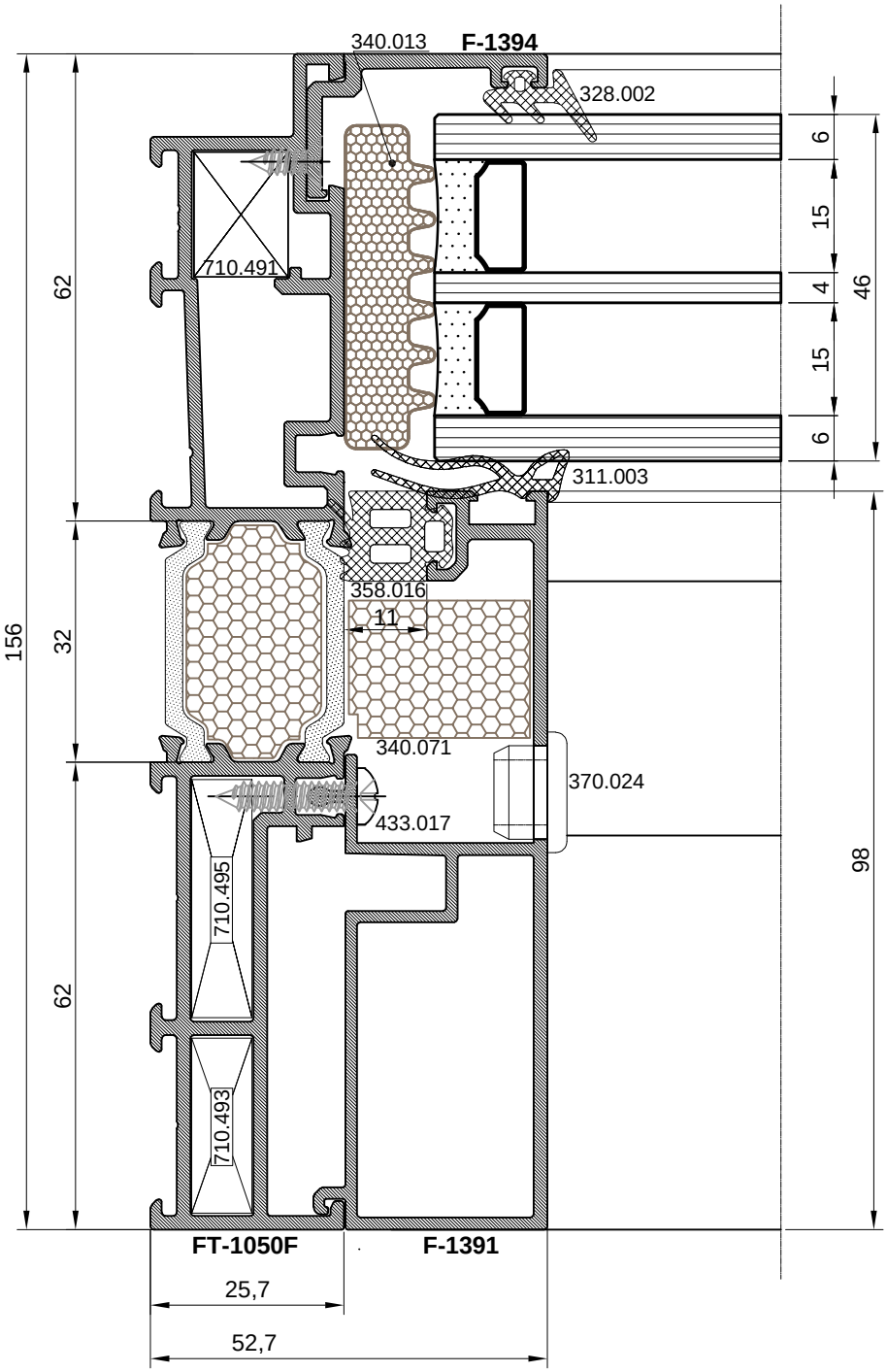


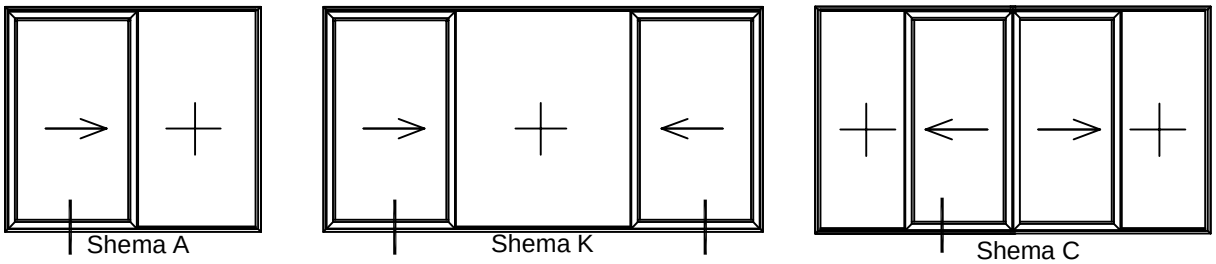
Shema D

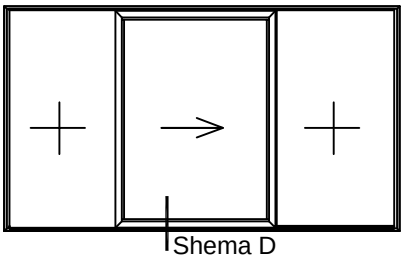

F-1394
340.013
FT-1074F
F-1389
358.016
11
341.010
341.012
730.002
5
FT-1071F
FT-1060F
340.013
731.010
730.002
710.202
340.071
370.024
433.018
710.202
F-1391
730.017
433.109
35
F-0784
341.011
730.002
26,8
41,9
5
92,5
166

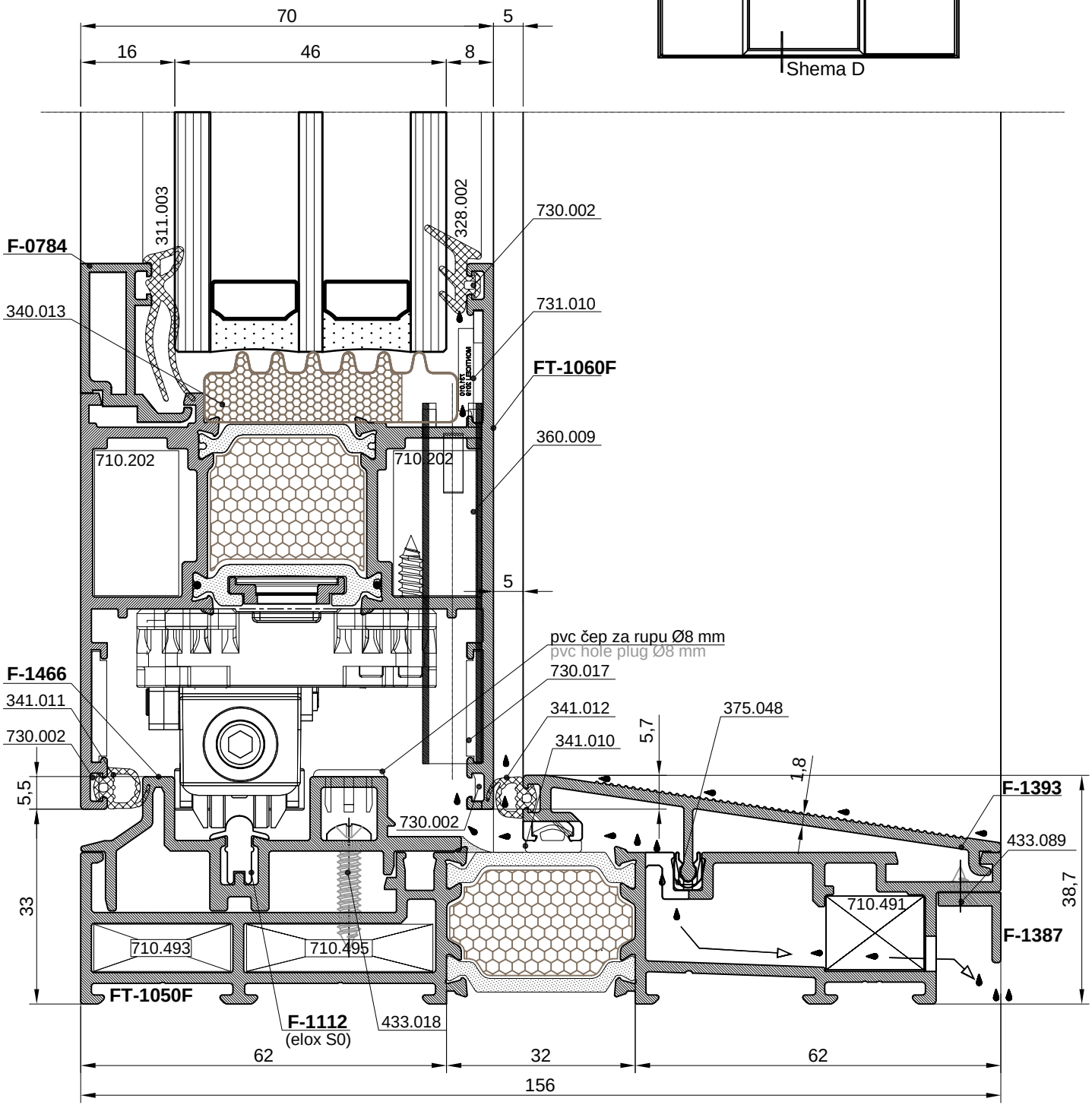


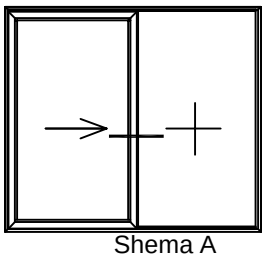
Shema D


340.013
F-1394
328.002
710.491
311.003
358.016
11
340.071
370.024
433.017
710.495
710.493
FT-1050F
F-1391
25,7
52,7
156
62
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4
15
6
46
98

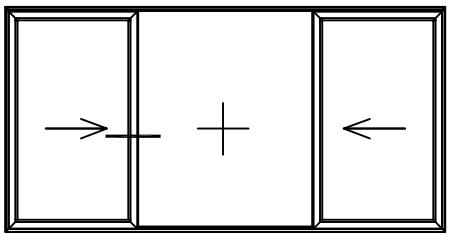

Shema A
Shema K
Shema C


Shema D

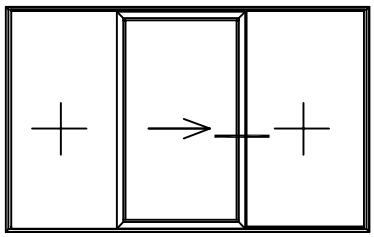

70
5
16
46
8
311.003
328.002
730.002
F-0784
340.013
731.010
FT-1060F
360.009
710.202
710.202
5
pvc čep za rupu Ø8 mm
pvc hole plug Ø8 mm
F-1466
730.017
341.011
341.012
375.048
730.002
341.010
5,7
1,8
5,5
730.002
F-1393
433.089
33
38,7
710.491
710.493
710.495
F-1387
FT-1050F
F-1112
(elox S0)
433.018
62
32
62
156



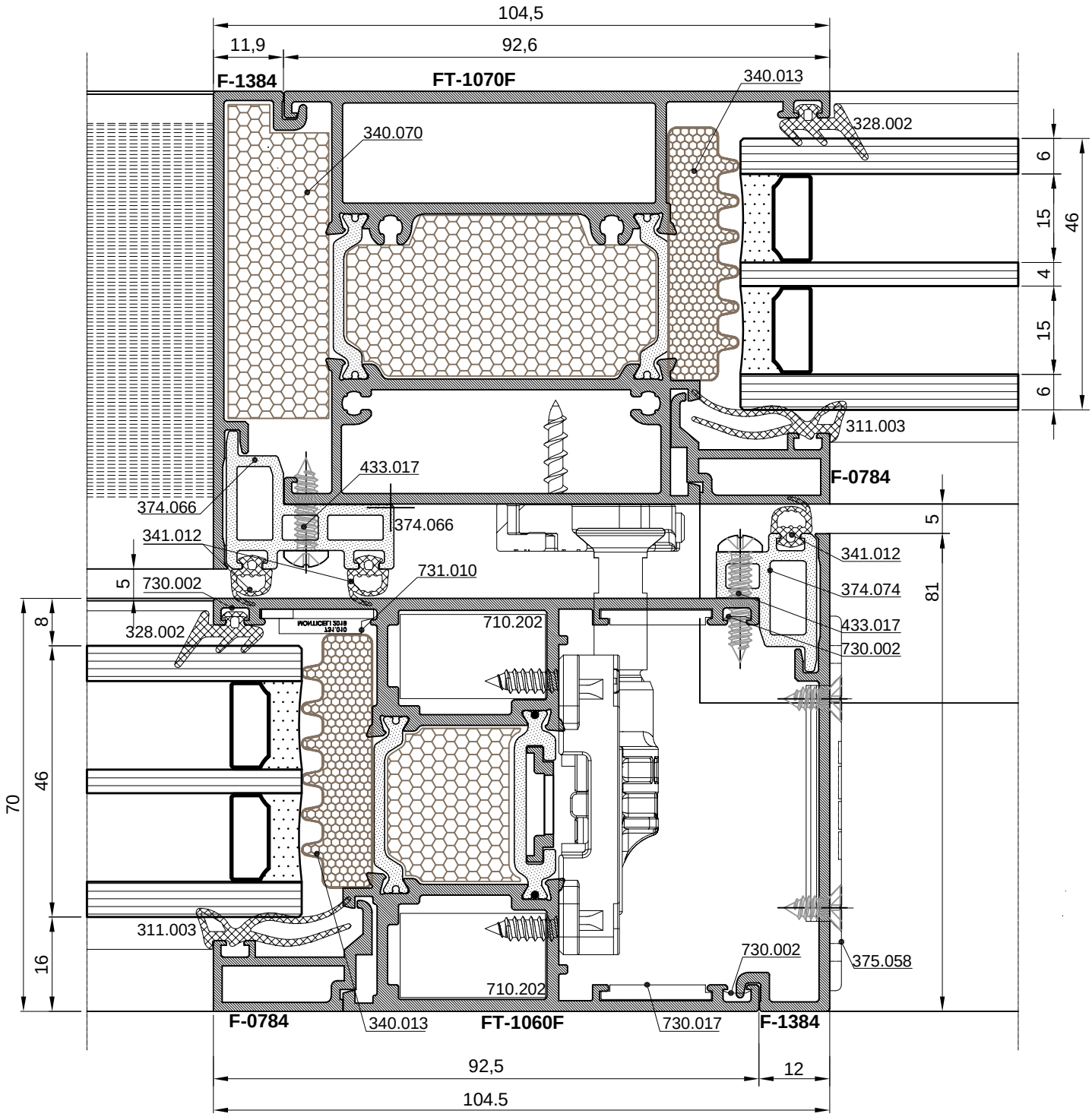
Shema A

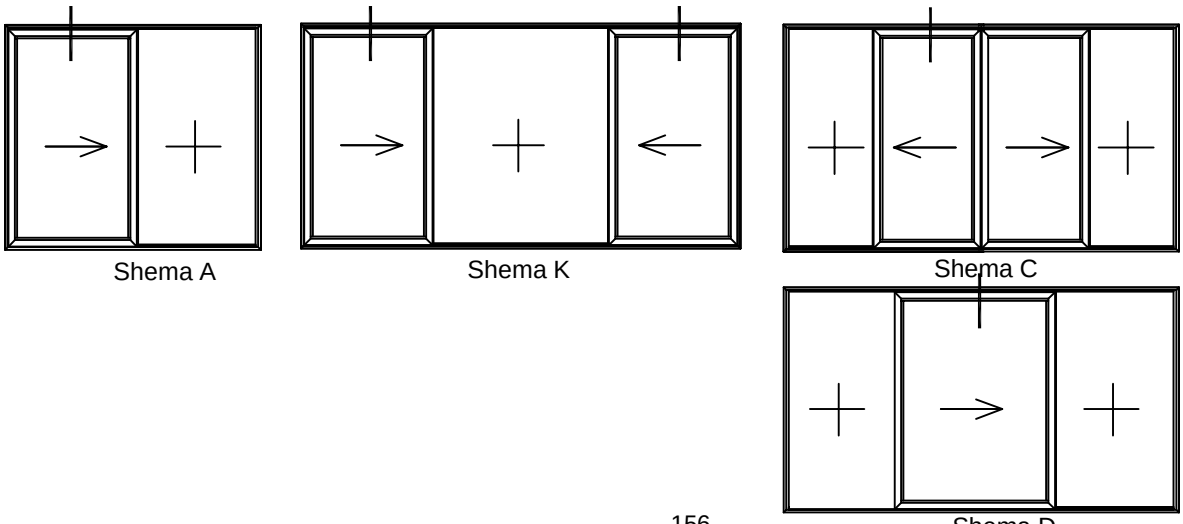


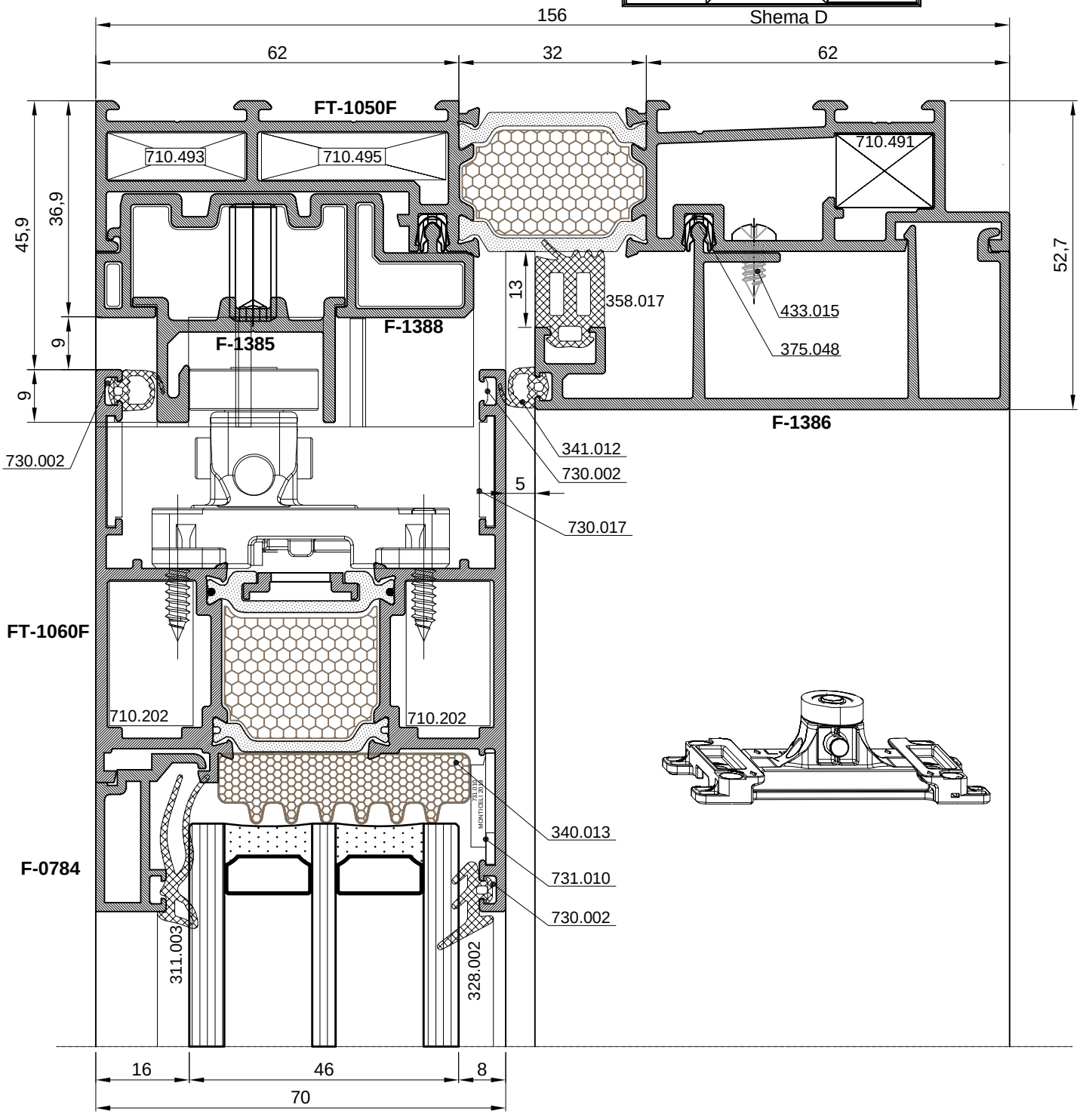
Shema K

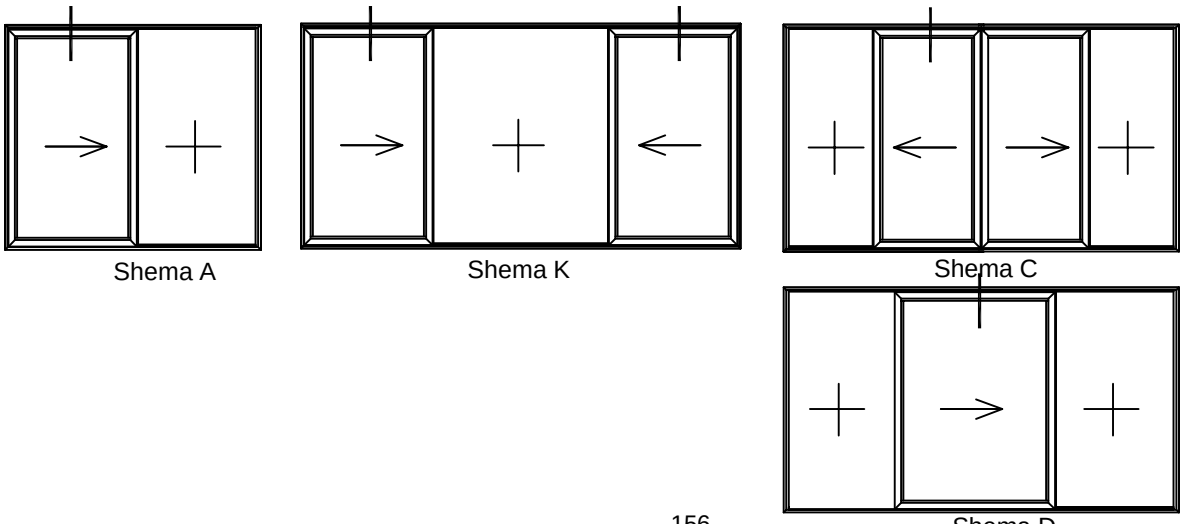


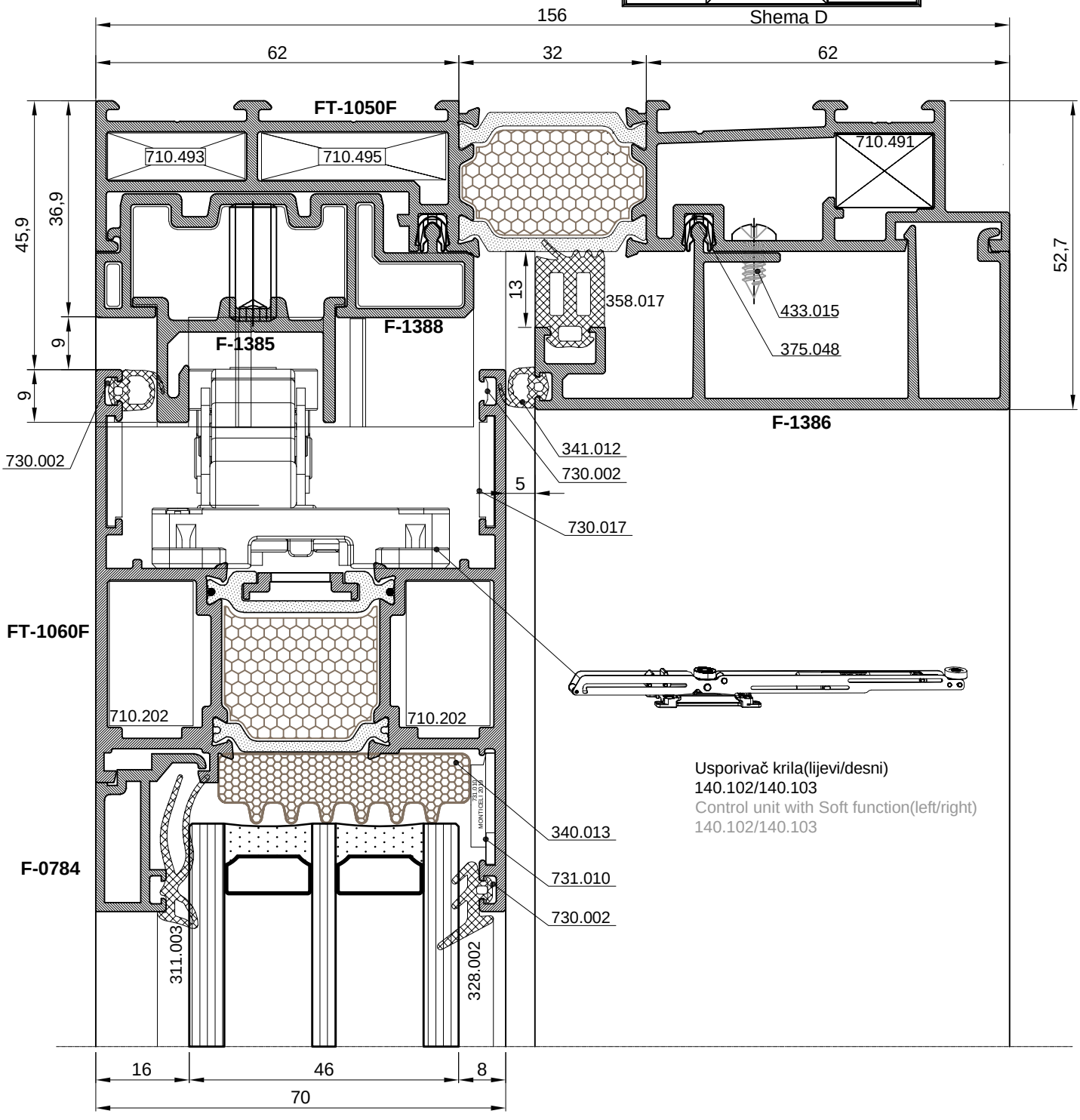
Shema D



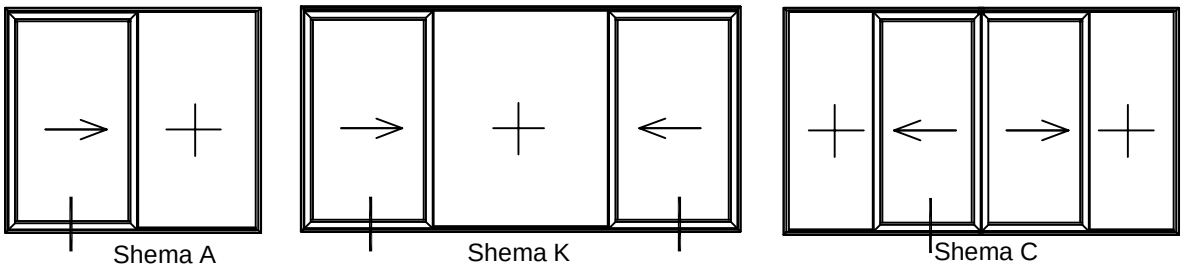

Shema A
Shema K
Shema C
Shema D

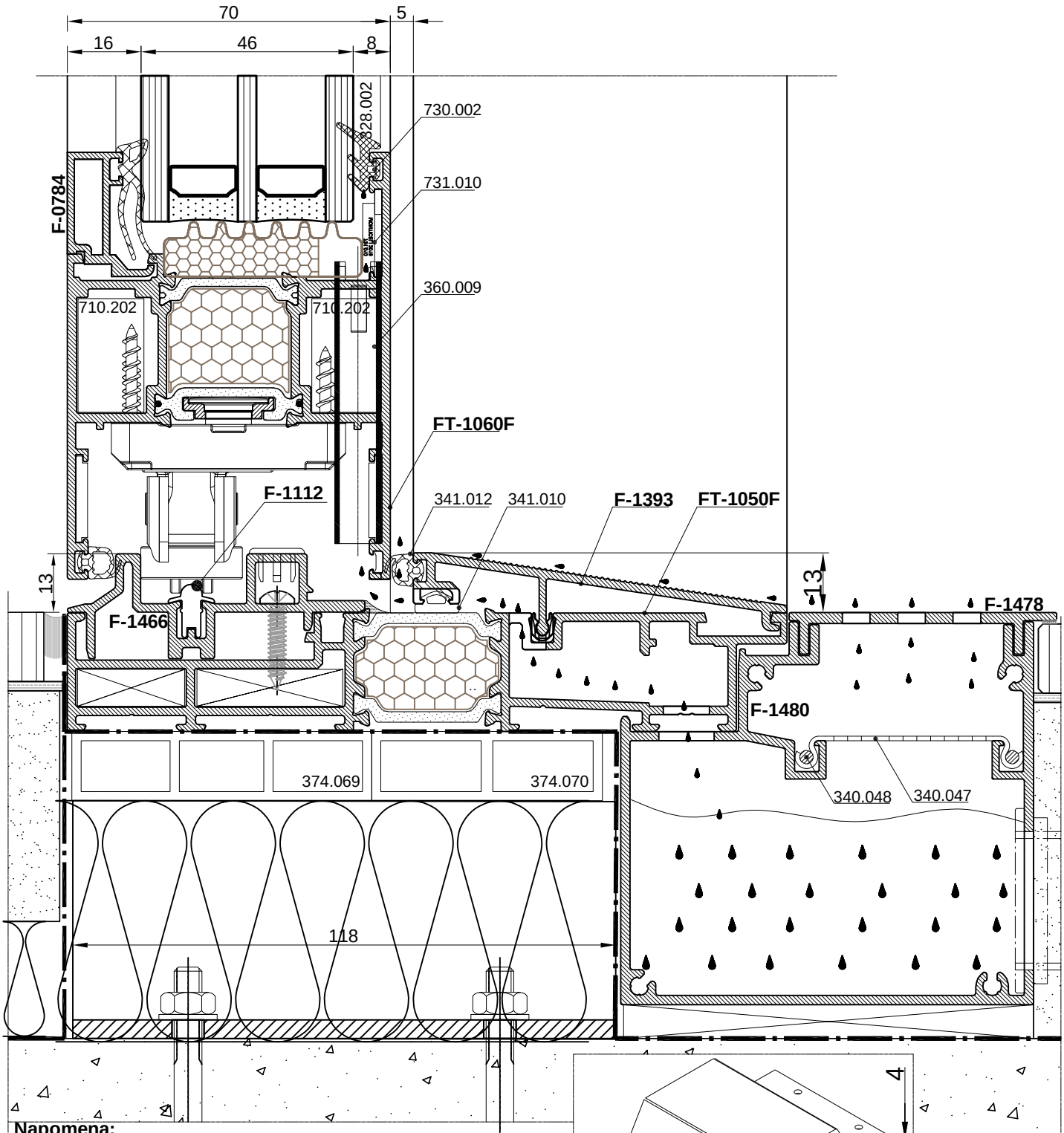

156
62
32
62
FT-1050F
710.493
710.495
710.491
45,9
36,9
52,7
13
358.017
433.015
375.048
F-1388
F-1385
9
9
F-1386
730.002
341.012
730.002
5
730.017
FT-1060F
710.202
710.202
340.013
731.010
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328.002
16
46
8
70

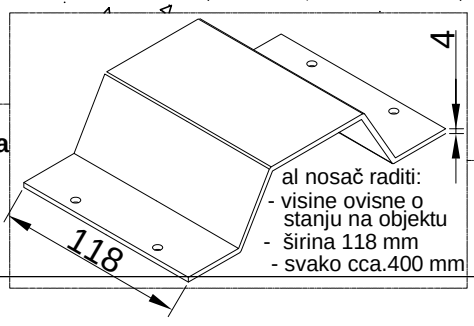




Usporivač krila(lijevi/desni)
140.102/140.103
Control unit with Soft function(left/right)
140.102/140.103

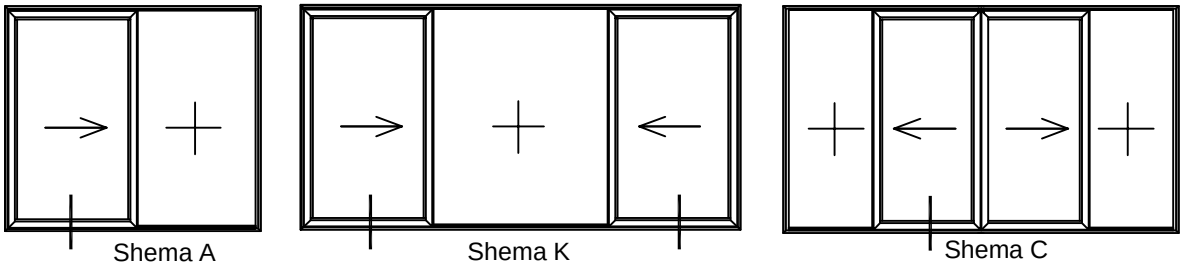






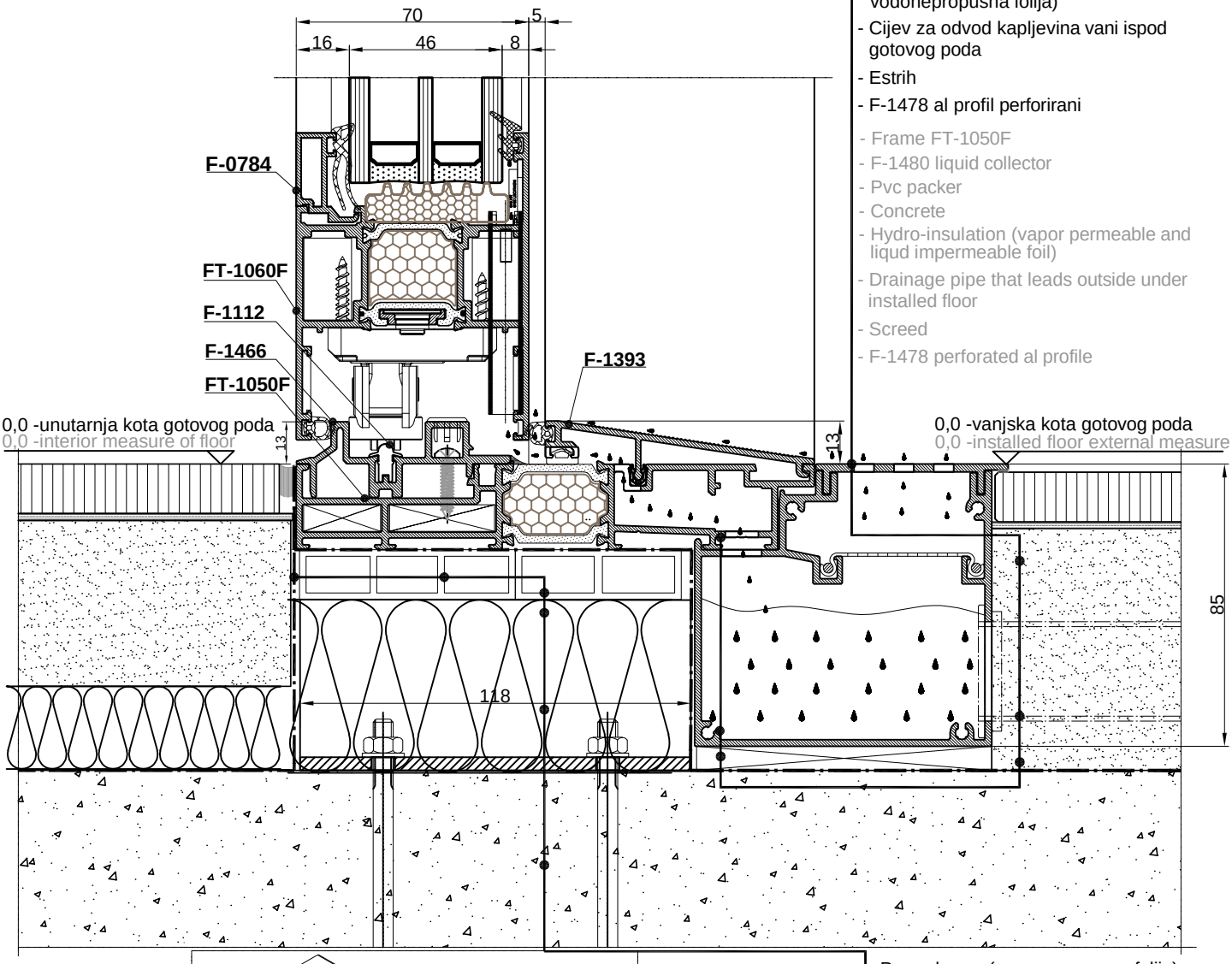
Napomena:
- Montaža vrata sa dodatnim profilom za sakupljanje kapljevina
- Visina praga u odnosu na kotu gotova poda 13 mm

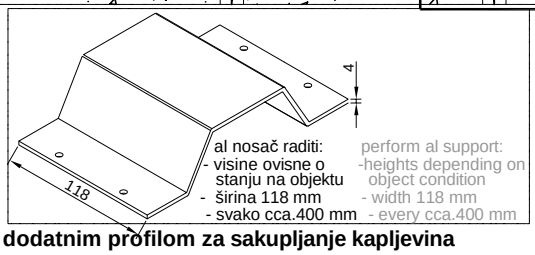
Remark:
- Door installation with additional profile for liquid collection
- Treshold height compared to finished floor is 13 mm



- 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 liqud impermeable foil)
- Drainage pipe that leads outside under installed floor
- Screed
- F-1478 perforated al profile





- 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

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

Prikaz odvodnje vode sa dodadnim 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

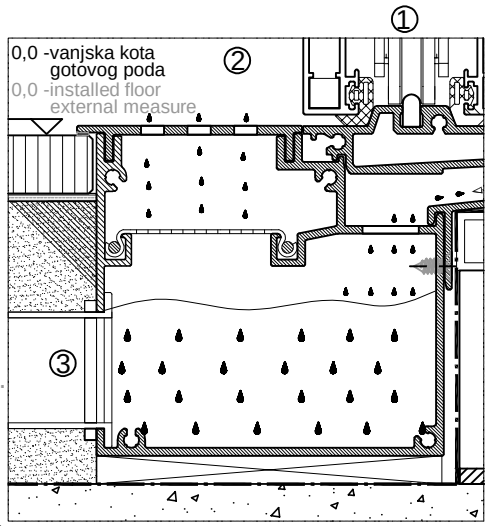
Water drainage view with additional liquid drainage profile for sliding systems (low tresholds up to 10 mm):

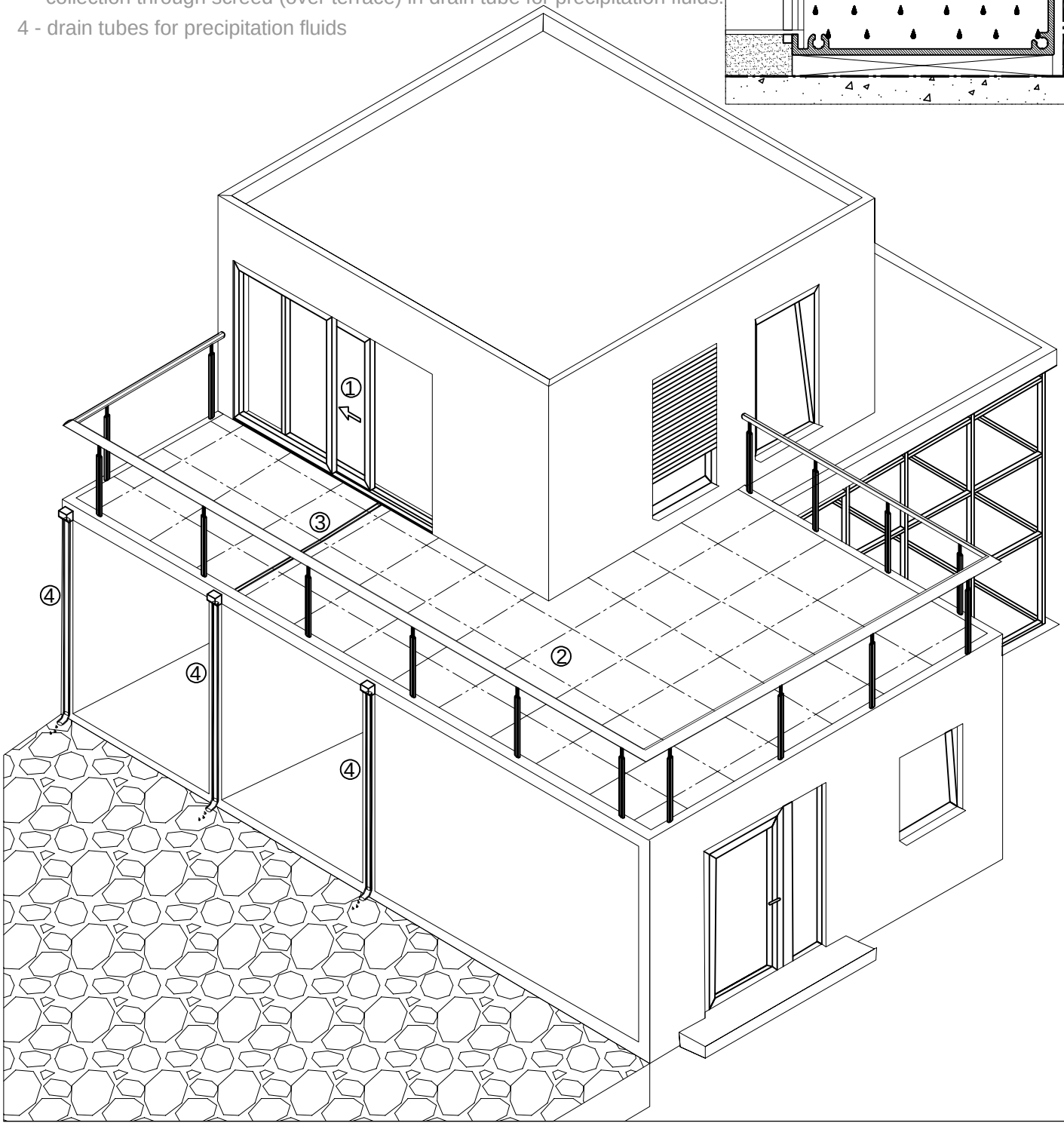
1 - sliding systems (installation with treshold height compared to installed floor up to13 mm)

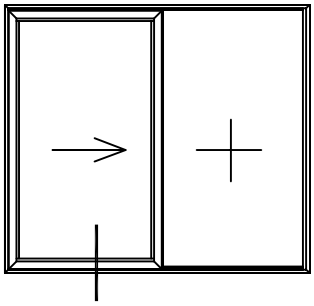
2 - terrace

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

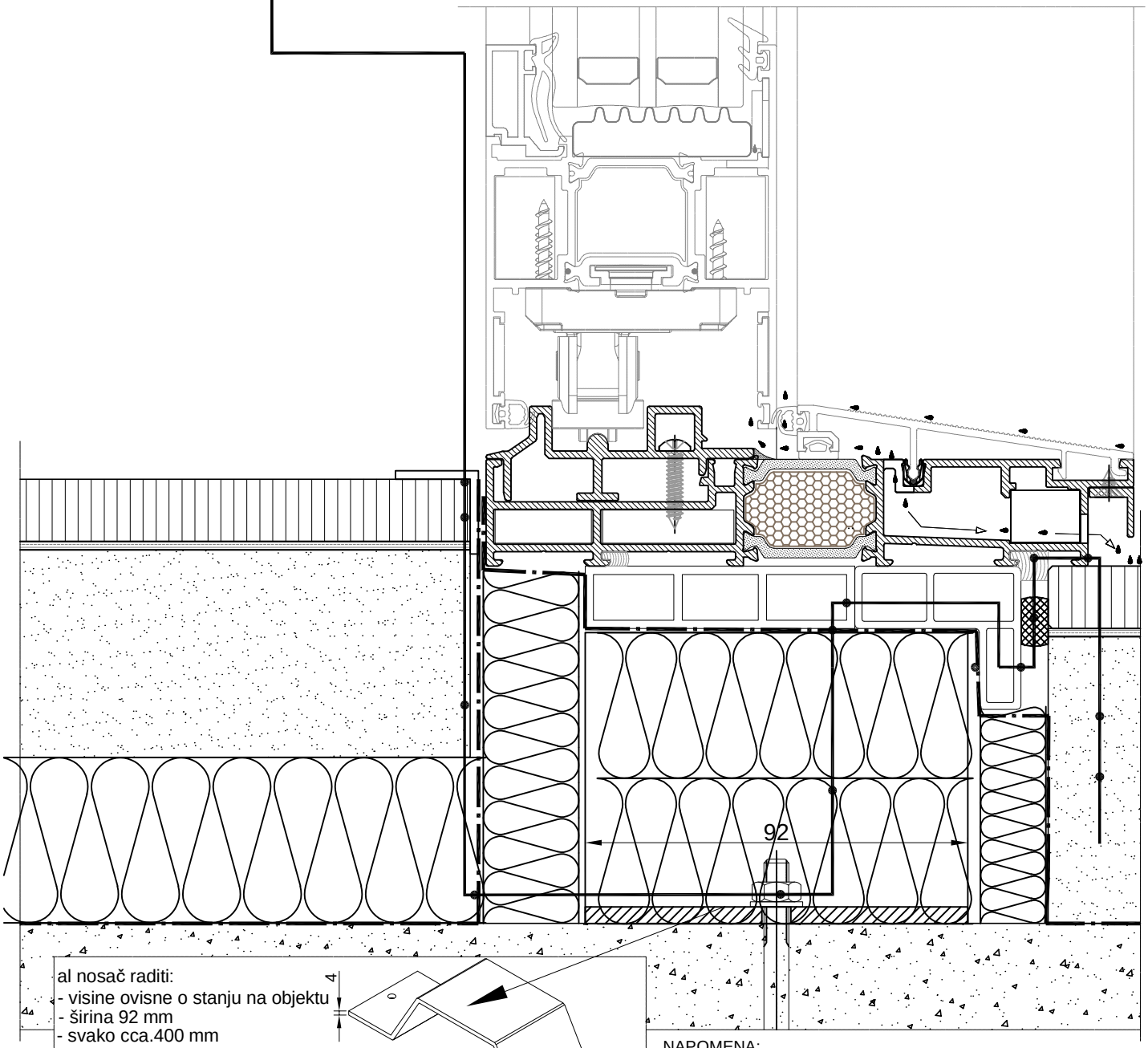






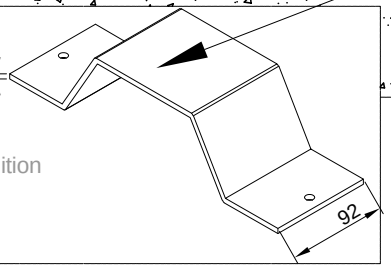
- Estrih
- Vanjski gotov pod
- Aluminijski ram-FT-1060F
- Silikon
- Trajnoelastični kit
- Pvc profil 374.037+pvc cijev 65x15 (374.069)
- Hidroizolacija(paropropusna i vodonepropusna folija)-za zaštitu termoizolacije (npr. Würth 0875 350 201)
- Čelična cijev 90x40x2
- Termoizolacija
- Parna brana(paronepropusna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



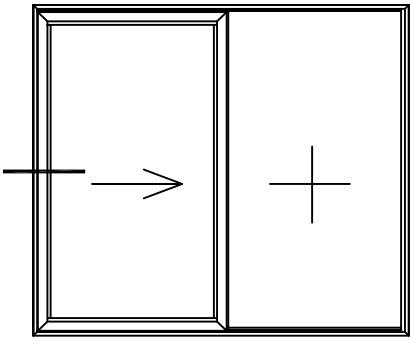
al nosač raditi:
- visine ovisne o stanju na objektu
- širina 92 mm
- svako cca.400 mm

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

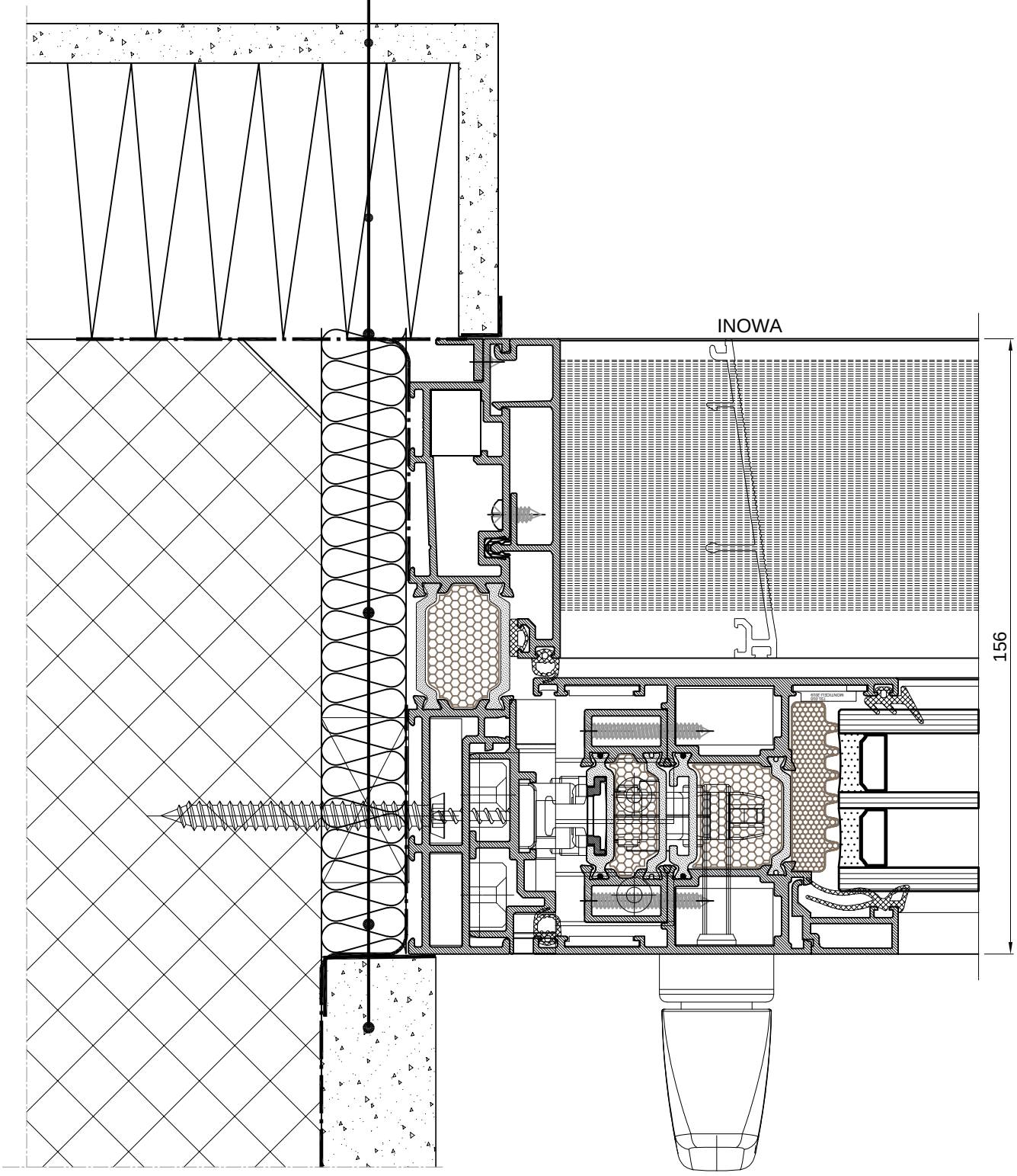
-vanjska toplinska izolacija -external thermal insulation

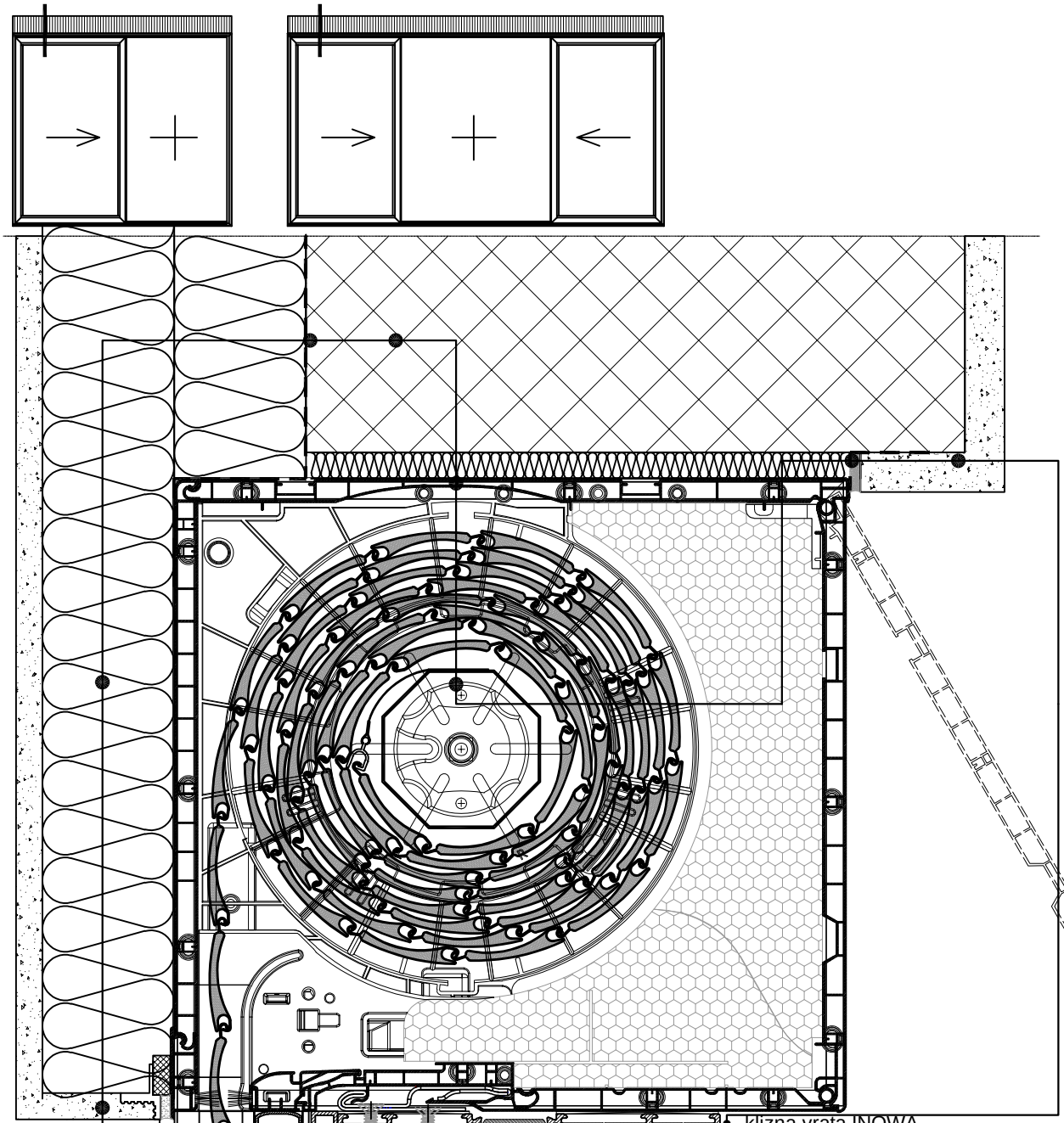
-paropropusna i vodonepropusna folija (hidroizolacija) -vapor permeable and liquid impermeable foil (hydro-insulation)

-toplinska izolacija -thermal insulation

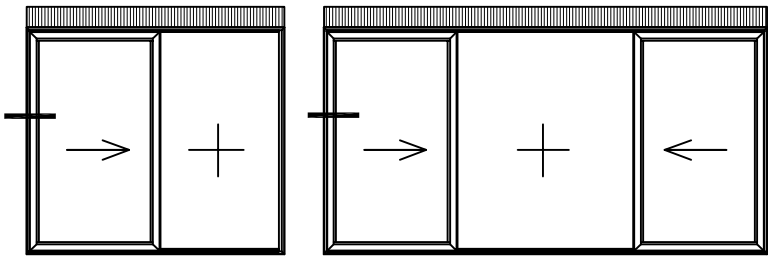
-paro- i vodonepropusna folija (parna brana) -vapor- and liquid impermeable foil (vapor barrier)

-unutarnja završna obrada -internal finishing

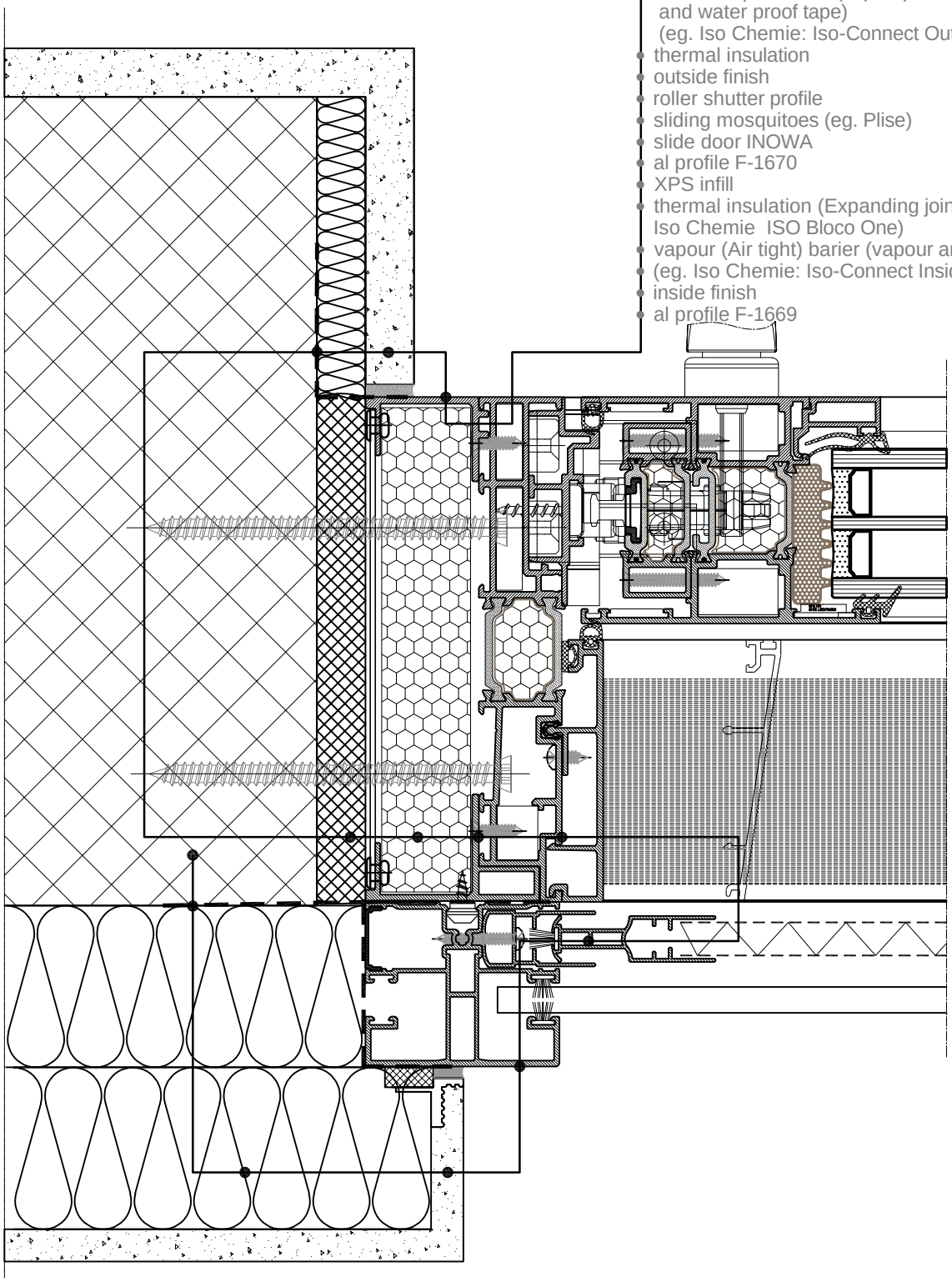


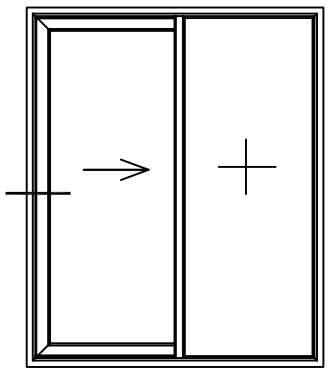


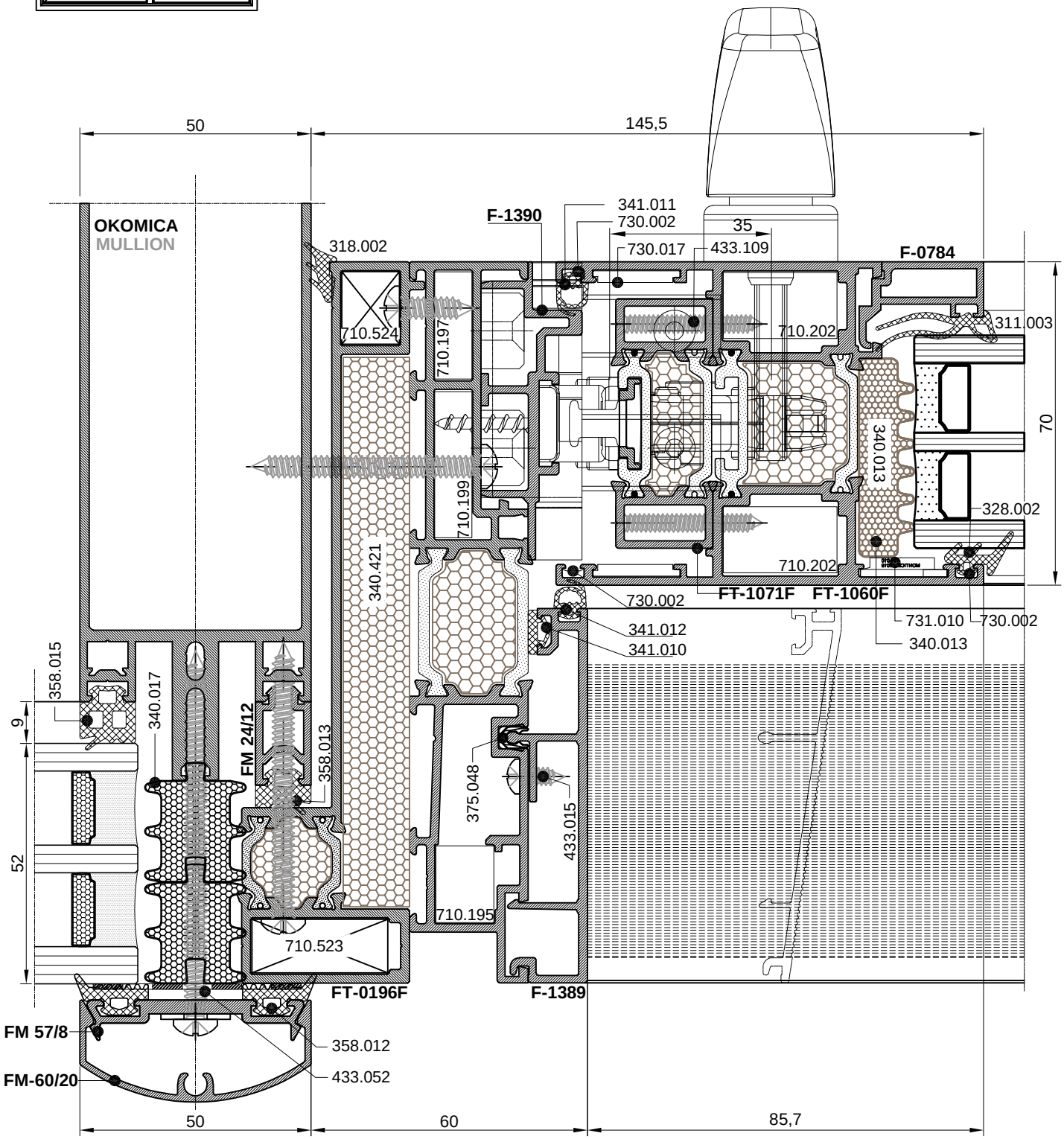
- klizna vrata INOWA
- klizna komarica (npr. Plisse)
- roletna
- vanjska obrada i završni izgled
- termoizolacija
- hidroizolacija (paropropusna i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Outside CX)
- betonski zid
- termokutija roletne (npr. Elite XT-240x255)
- motor za pokretanje roletne
- parna brana (paro- i vodonepropusna traka) (npr. Iso Chemie: Iso Connect Inside CX)
- unutarnja obrada i završni izgled
- slide doors INOWA
- sliding mosquitoes (eg. Plise)
- shutters
- outside finish
- thermal insulation
- wheather protection (vapourpermable and water proof tape) (eg. Iso Chemie: Iso-Connect Outside CX)
- concrete wall
- thermal box shutters (eg. Elite XT-240x255)
- shutter starter motor
- vapour (Air tight) barier (vapour and water proof tape), (eg. Iso Chemie: Iso-Connect Inside CX)
- inside finish

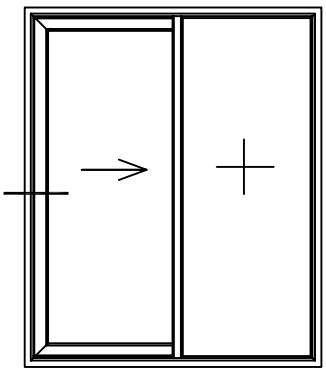


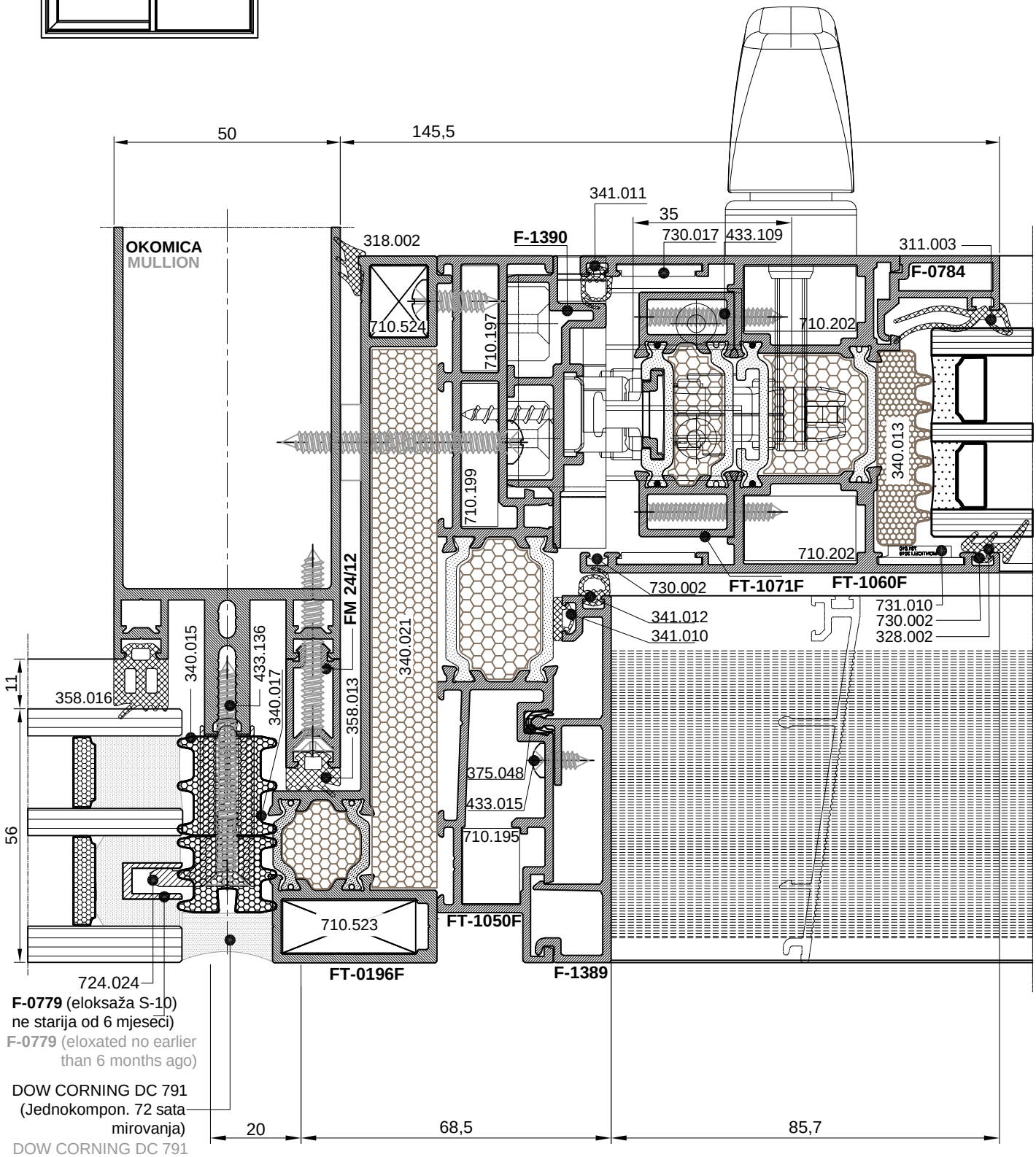
- betonski zid
- hidroizolacija (paropropusna i vodonepropusna traka) (npr.Iso Chemie: Iso Connect Outside CX)
- termoizolacija
- vanjska obrada i završni izgled
- vodilica roletne
- klizna komarica (npr. Plisse)
- klizna vrata INOWA
- al profil proširenje rama F-1670
- XPS ispuna
- termoizolacija (exp.spužvica: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





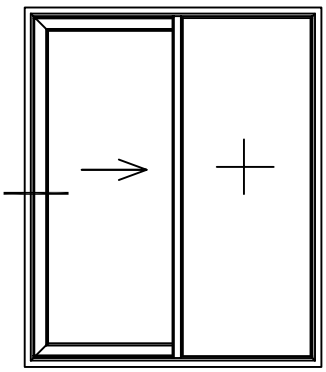

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145,5
OKOMICA
MULLION
F-1390
341.011
730.002
35
730.017
433.109
F-0784
318.002
710.524
710.197
710.202
311.003
70
340.013
710.199
328.002
340.421
710.202
730.002
FT-1071F
FT-1060F
731.010
730.002
340.013
341.012
341.010
358.015
340.017
9
FM 24/12
358.013
52
375.048
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FM-60/20
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60
85,7

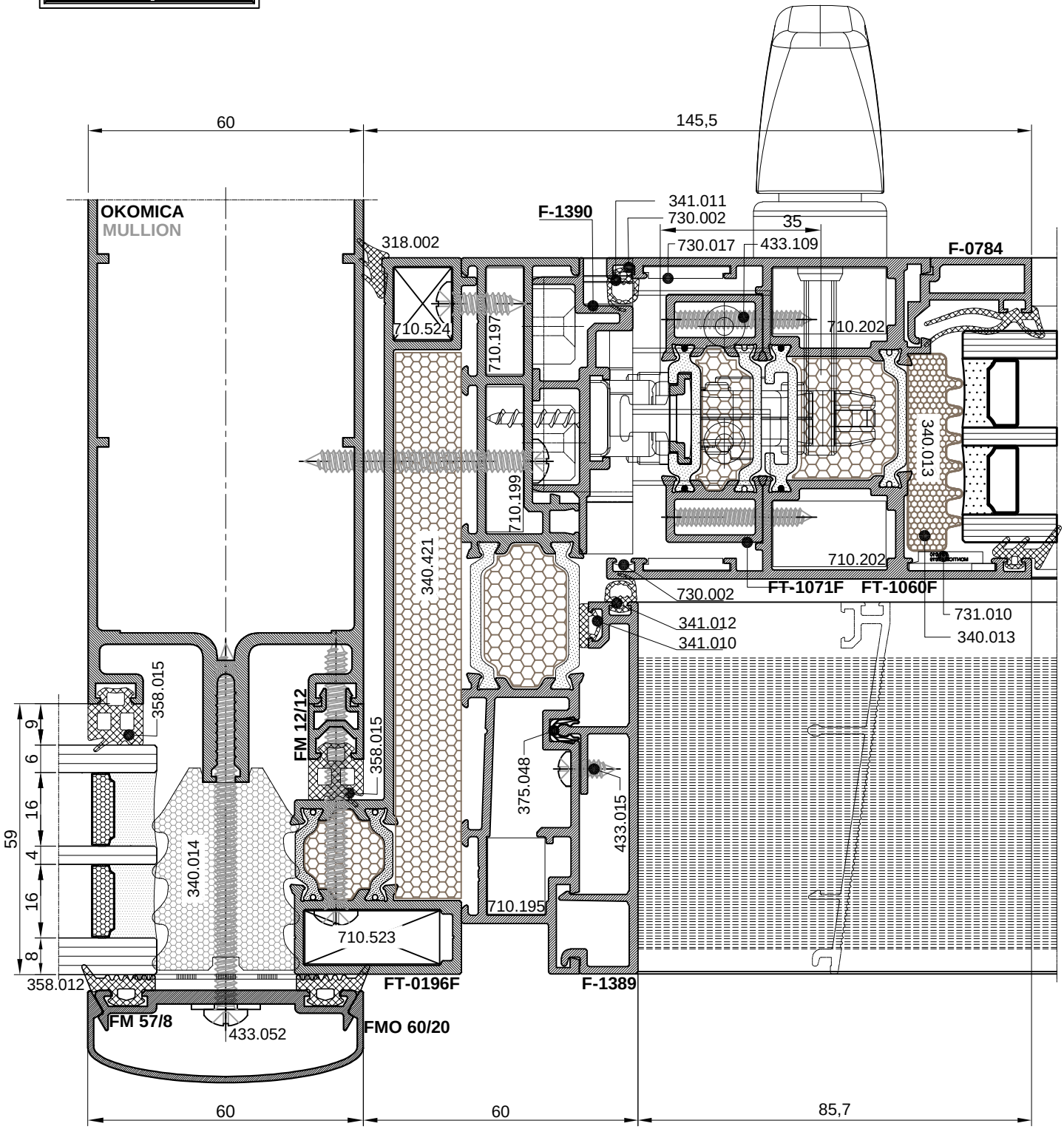


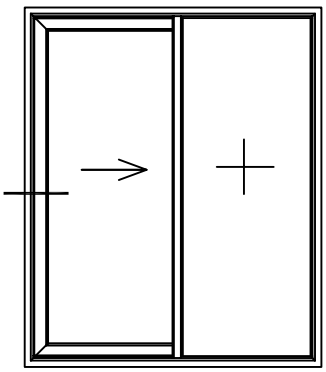


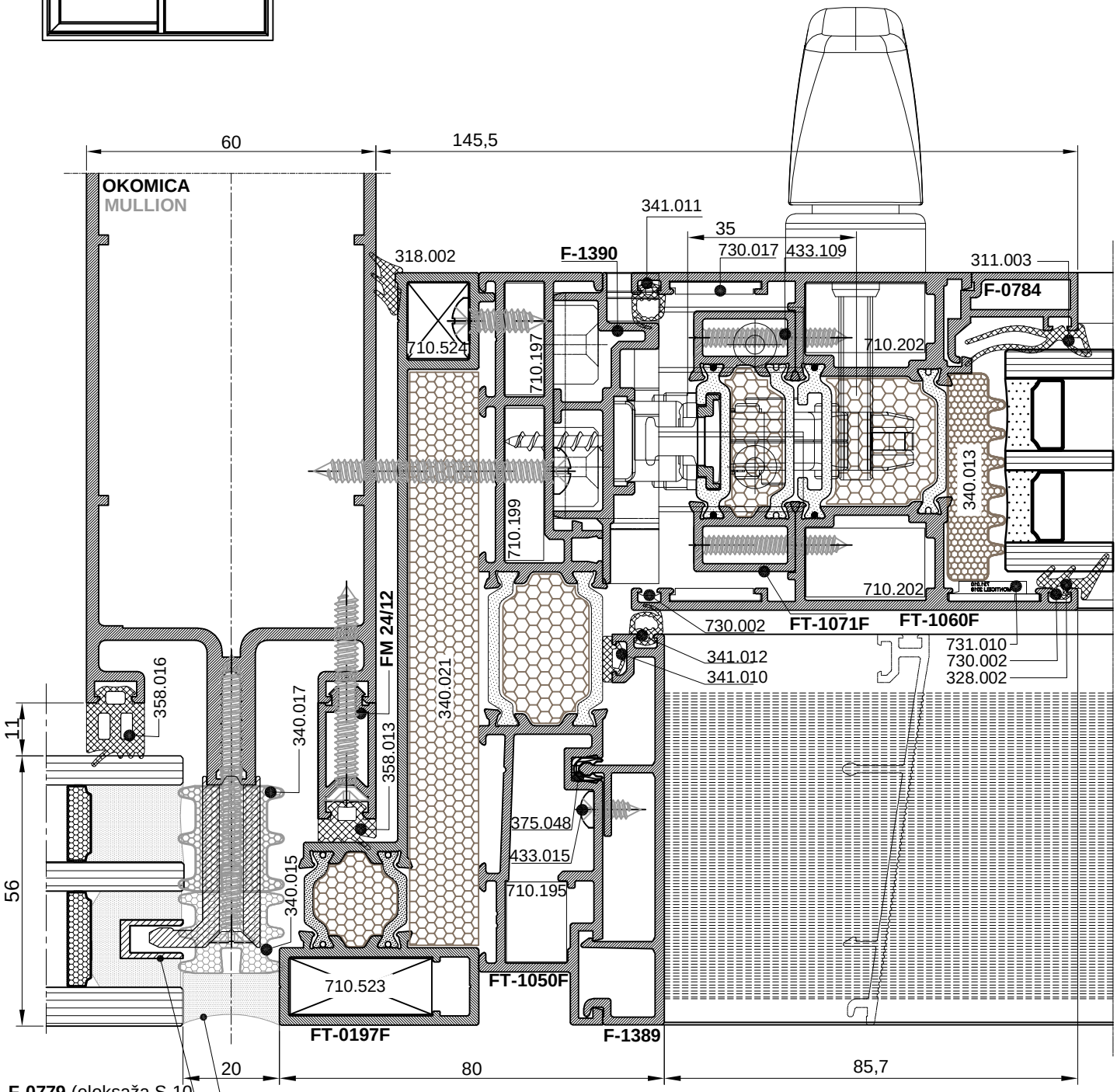
F-0779 (eloksaža S-10)
ne starija od 6 mjeseci)
F-0779 (eloxated no earlier than 6 months ago)

DOW CORNING DC 791
(Jednokompon. 72 sata mirovanja)
DOW CORNING DC 791
(One component 72 hour rest time)



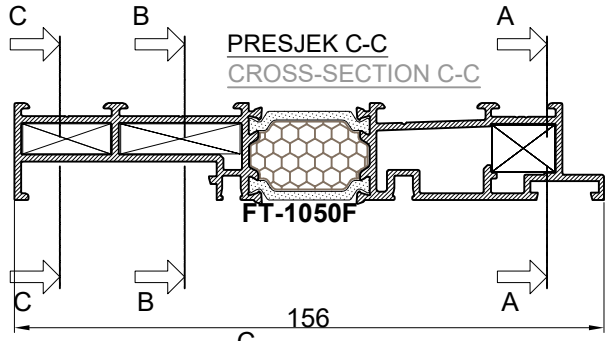

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145,5
OKOMICA
MULLION
F-1390
341.011
730.002
35
730.017
433.109
F-0784
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FT-1060F
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341.010
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FM 12/12
358.015
9
6
16
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16
8
59
340.014
375.048
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F-1389
FM 57/8
433.052
FMO 60/20
60
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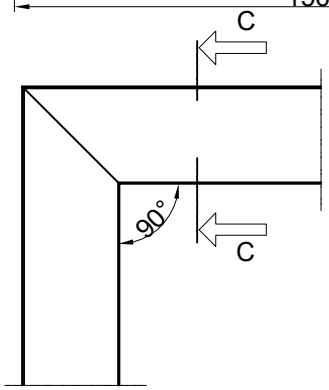


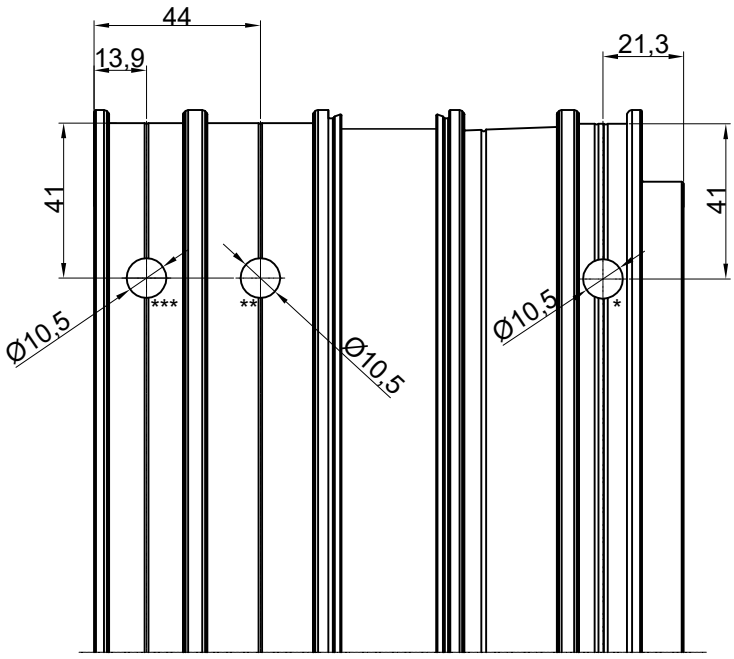


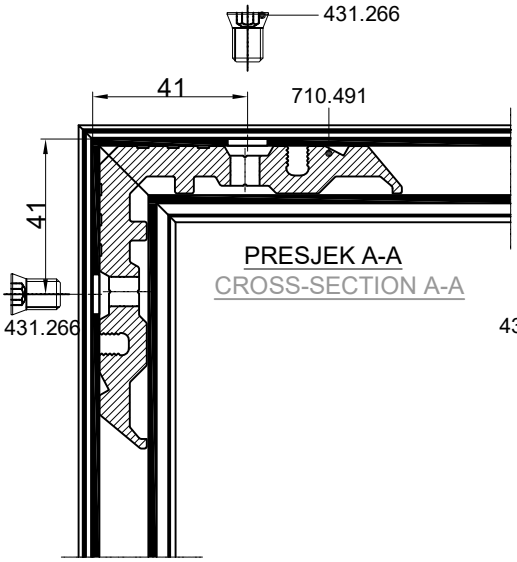
F-0779 (eloksaža S-10 ne starija od 6 mjeseci)
(anodizing S-10 not older than 6 months)
DOW CORNING DC 791
(JEDNOKOMPONENTNI)
72 sata mirovanja
DOW CORNING DC 791
(ONE COMPONENT)
72 hours inaction

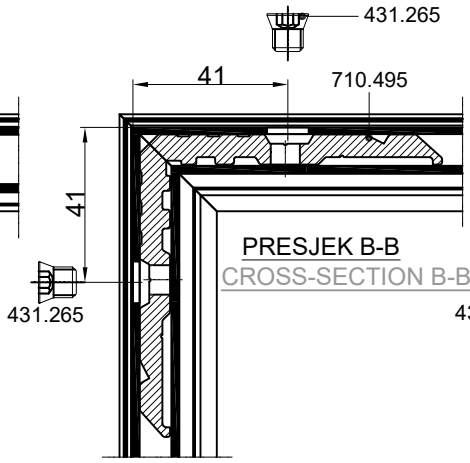
Obrada i montaža
Processing and montage

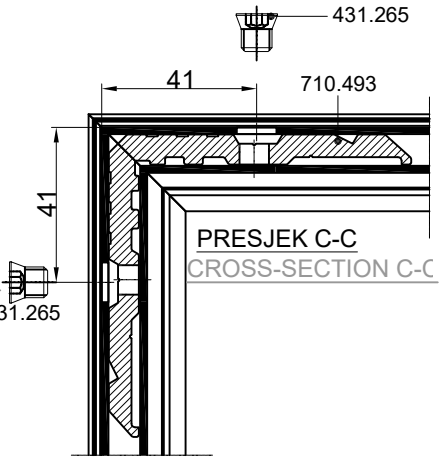


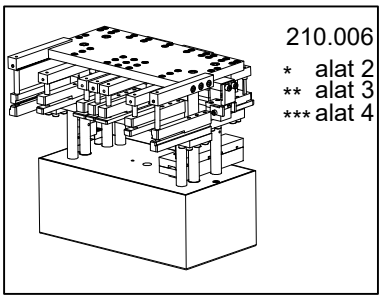


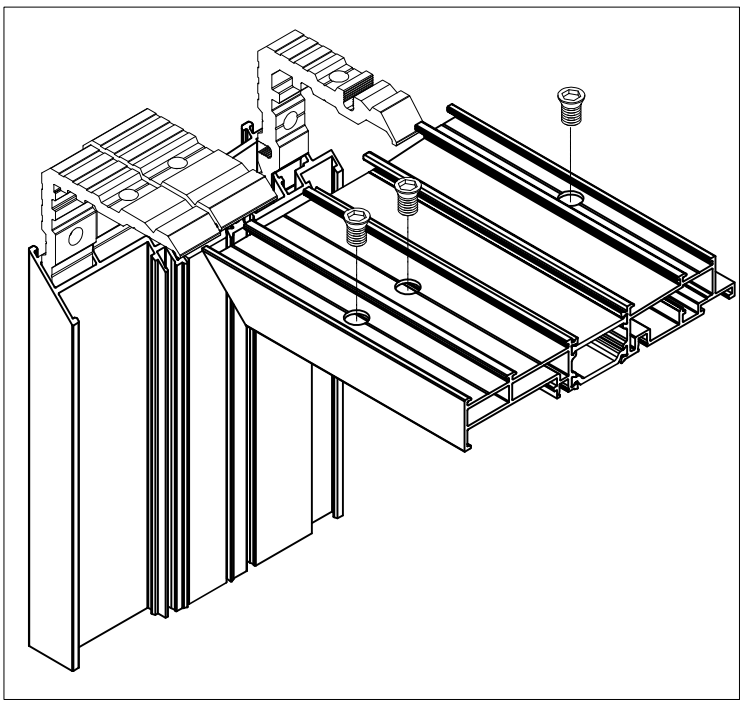






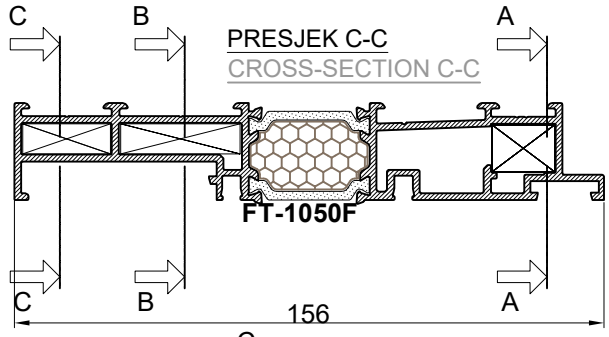


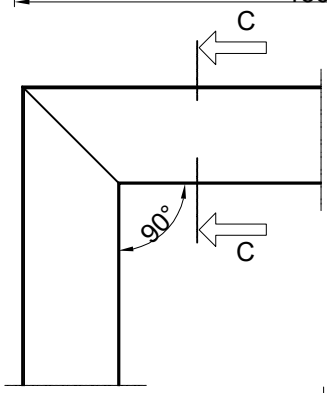


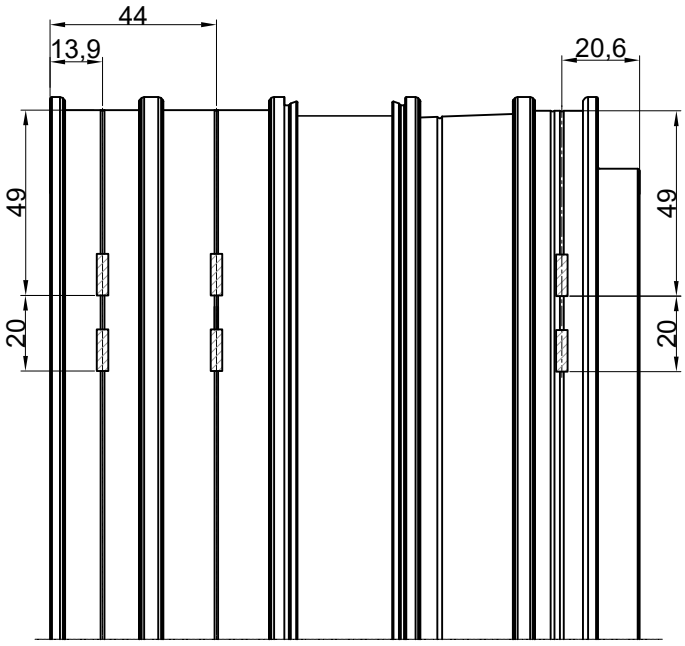


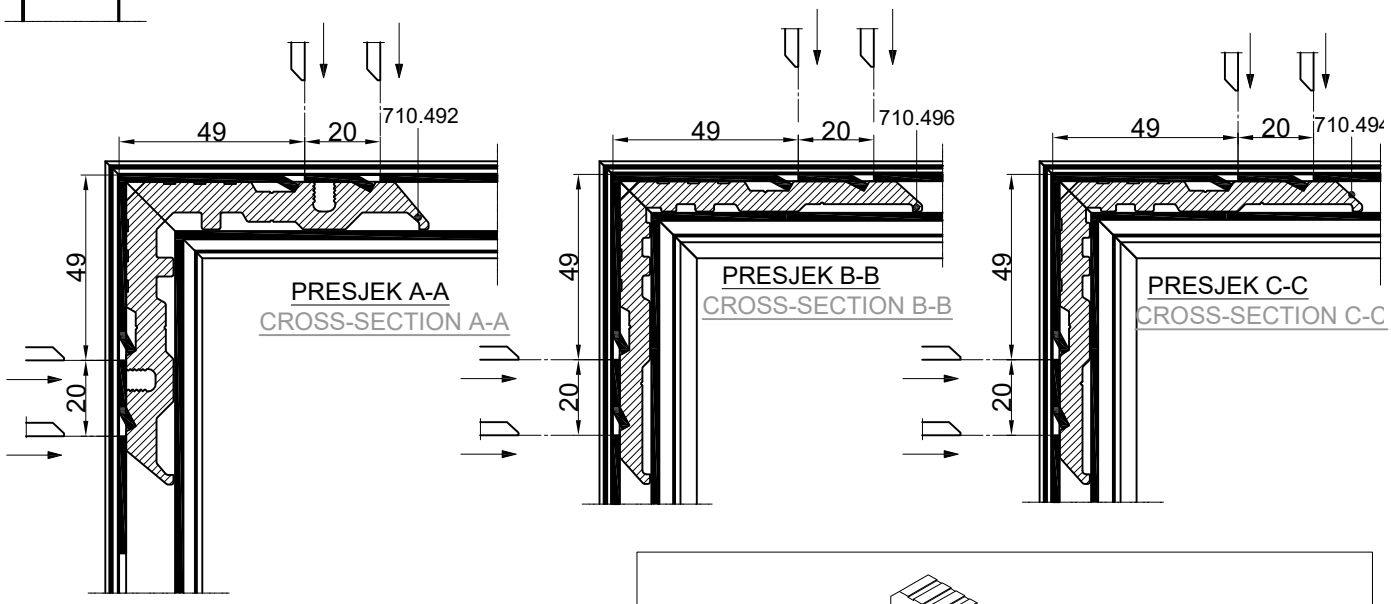
NAPOMENA: SPAJANJE PROFILA KUTNIM SPOJNICAMA (vijčana veza)

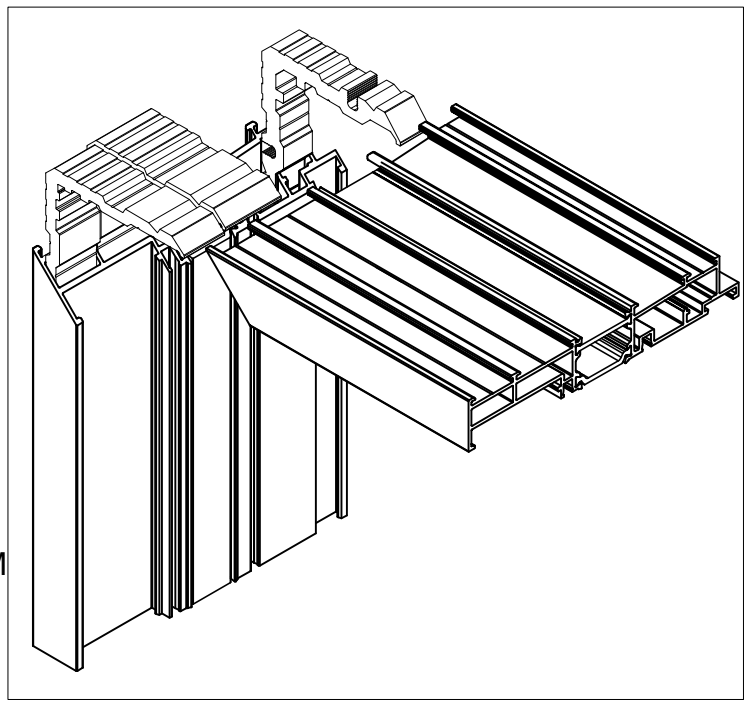
REMARK: JOINING PROFILES USING CORNER BRACKETS (screw connection)







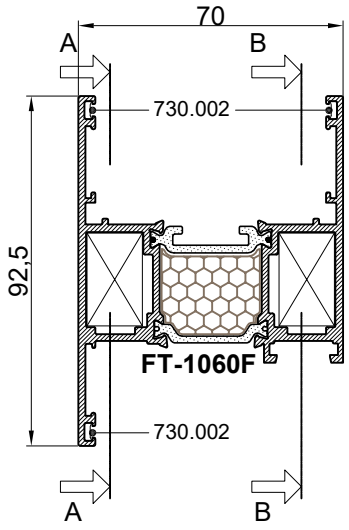


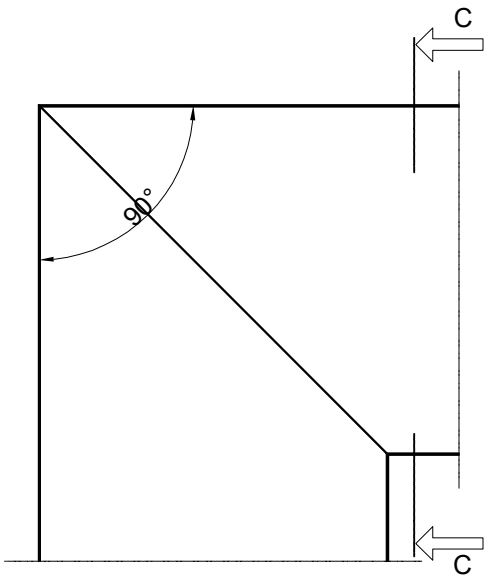


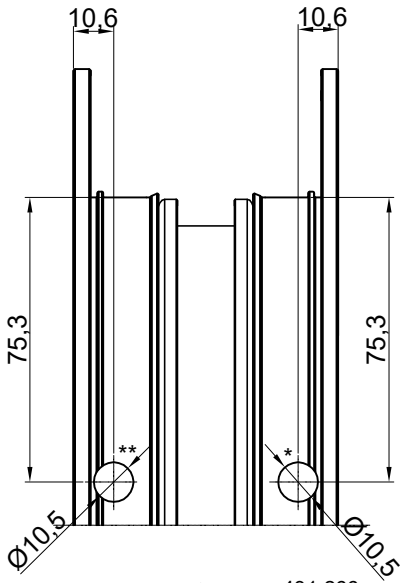
NAPOMENA: SPAJANJE PROFILA KUTNIM SPOJNICAMA (upresavanje)

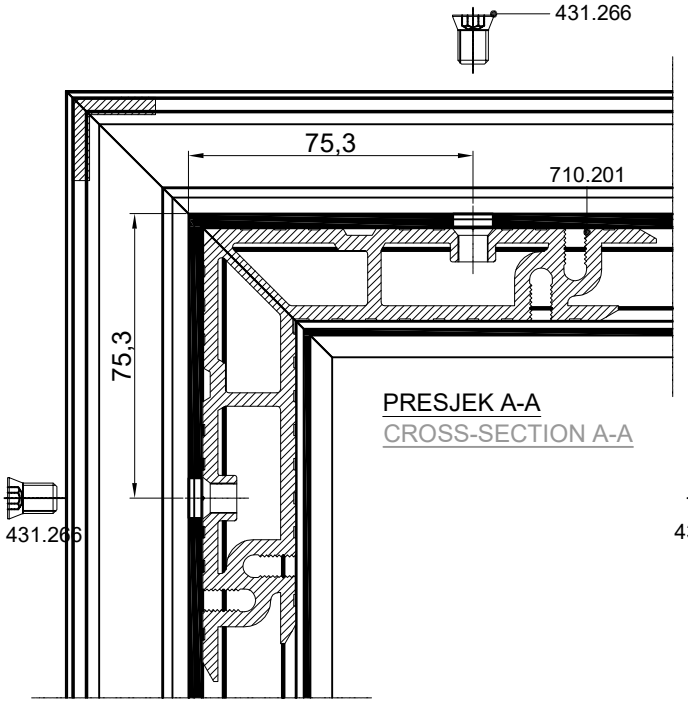
REMARK: JOINING PROFILES USING CORNER BRACKETS(cor. crimping)

PRESJEK C-C
CROSS-SECTION C-C

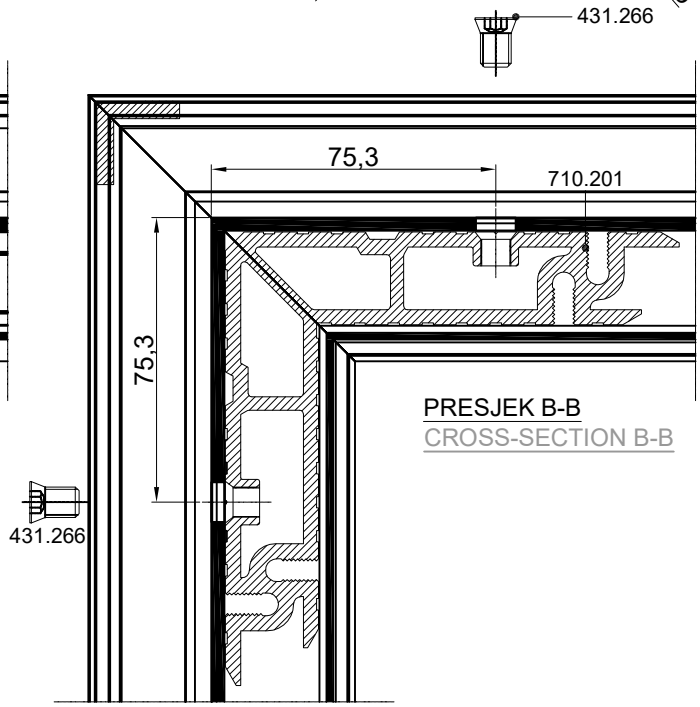




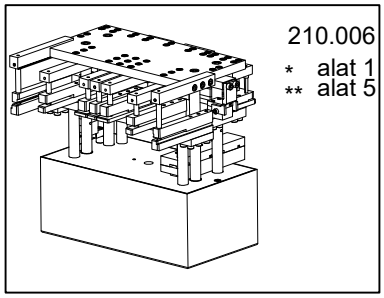


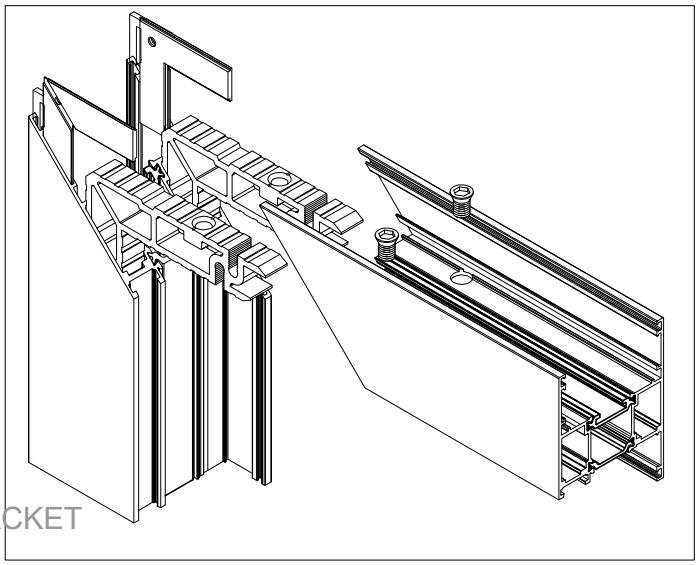


PRESJEK A-A
CROSS-SECTION A-A



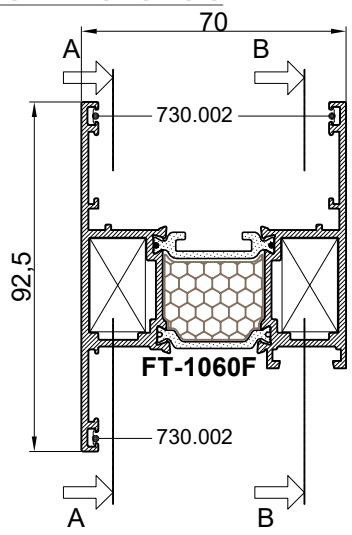
PRESJEK B-B
CROSS-SECTION B-B

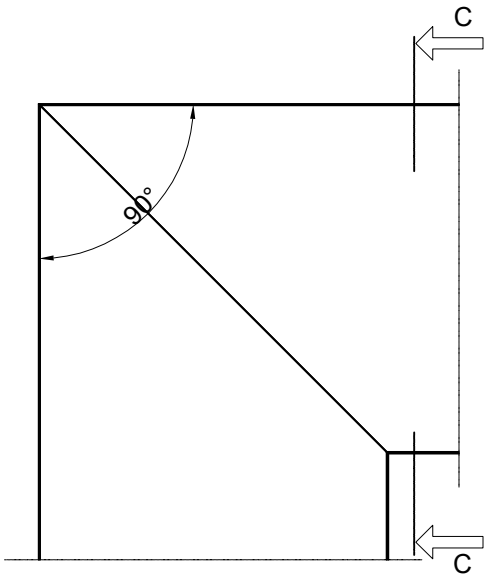


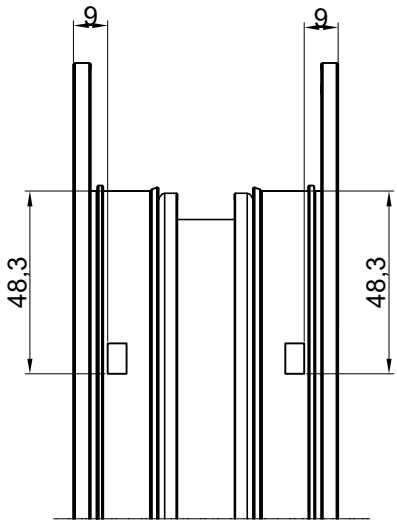


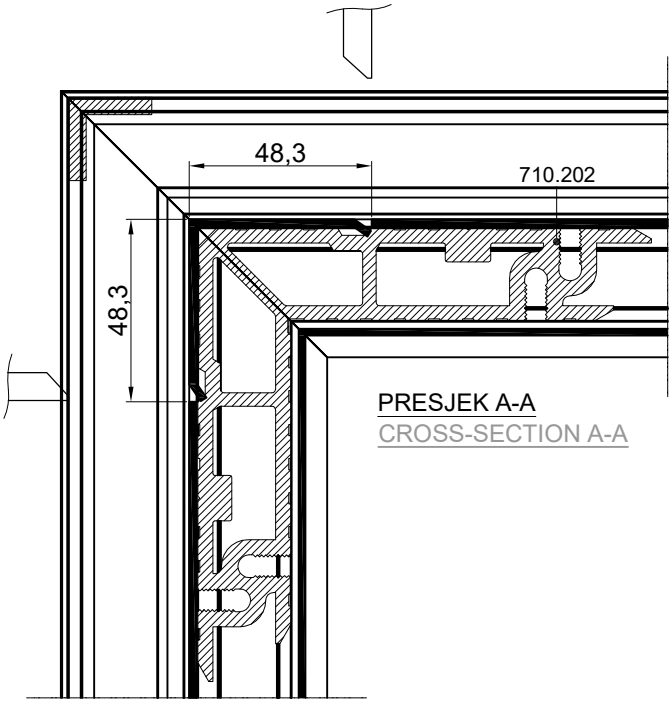
NAPOMENA: ZBOG UGRADNJE OKOVA PREPORUČUJE SE UGRADNJA KUTNIKA U KRILU NA UTISKIVANJE (bez vijaka)
REMARK: BECAUSE OF THE HARDWARE INSTALLATION,EMBEDMENT CORNER BRACKET ON SASH IS RECOMMENDED (no screws)

PRESJEK C-C
CROSS-SECTION C-C

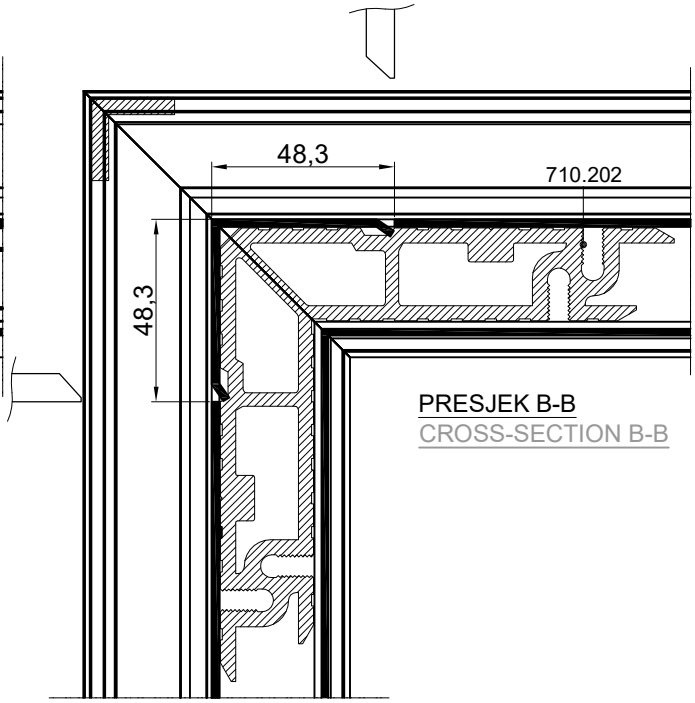






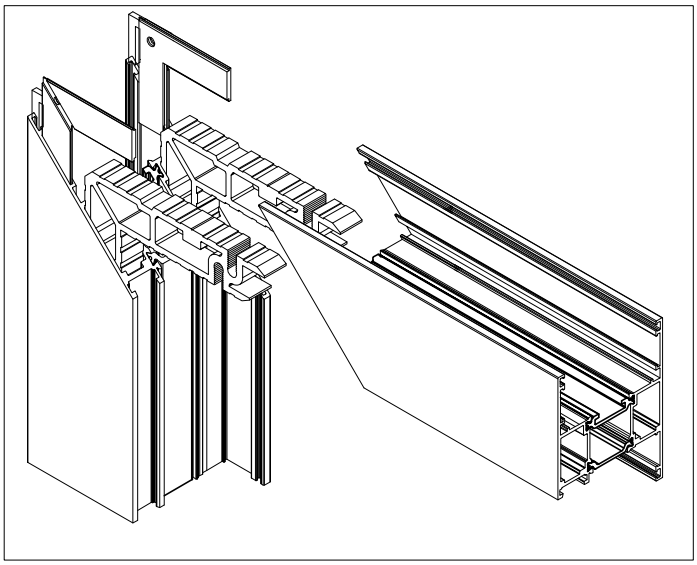


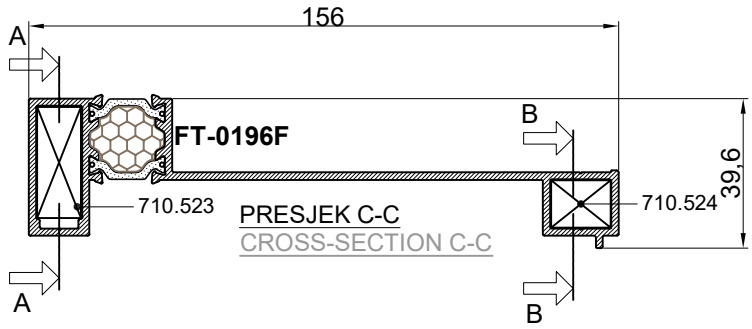
PRESJEK A-A
CROSS-SECTION A-A

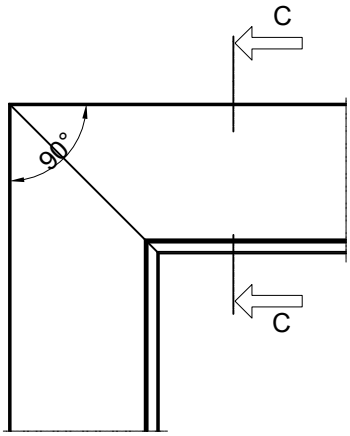


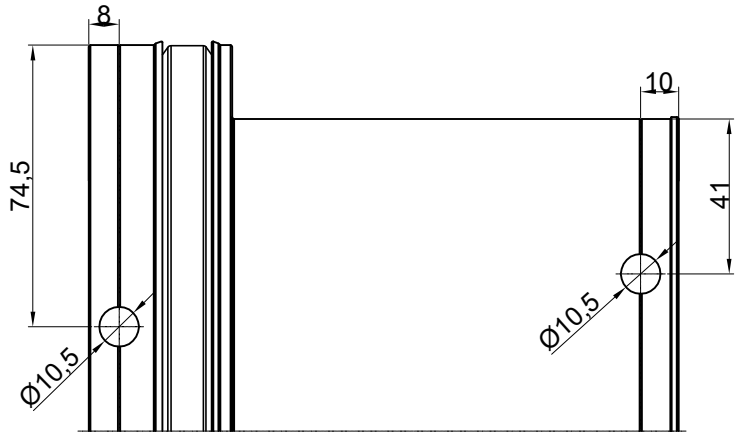
PRESJEK B-B
CROSS-SECTION B-B

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)

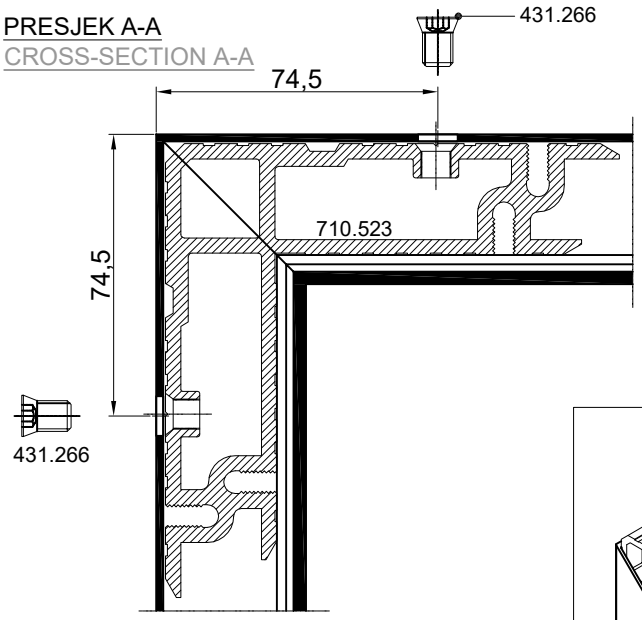


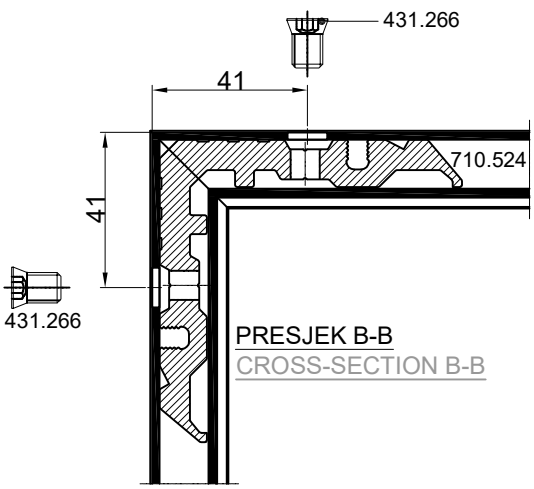




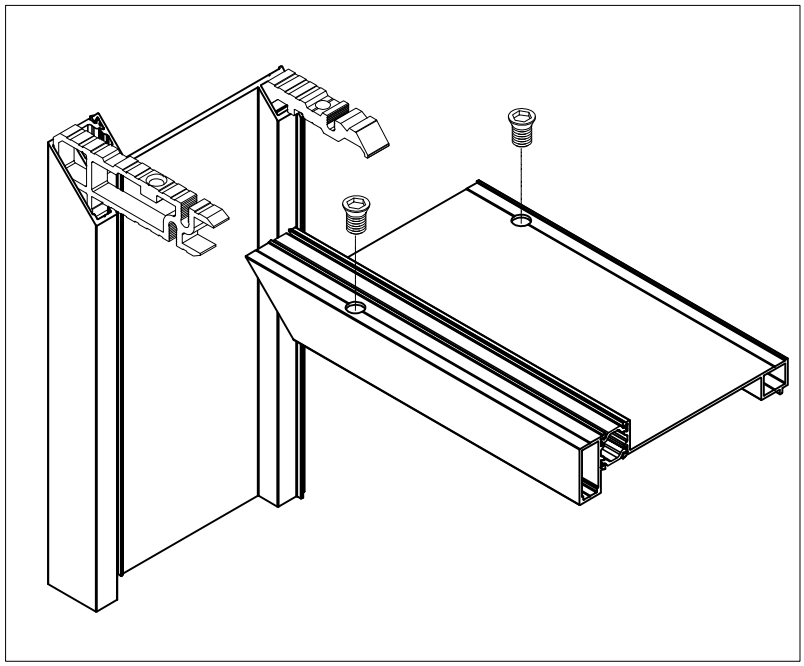


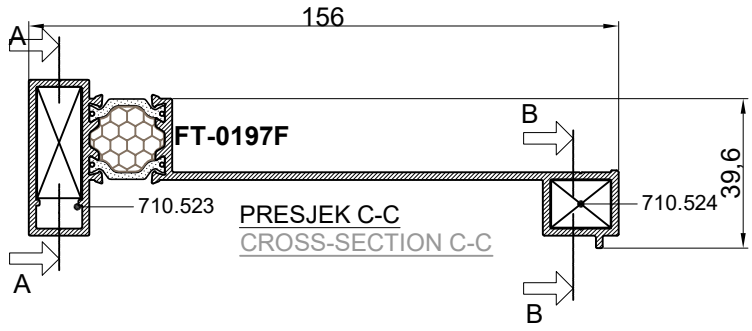
PRESJEK A-A
CROSS-SECTION A-A

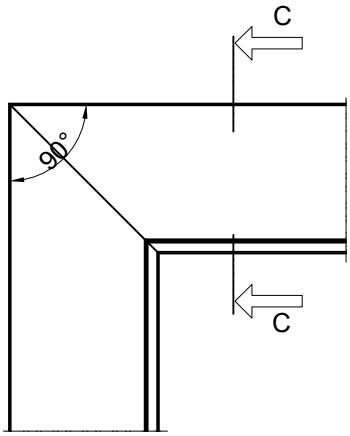


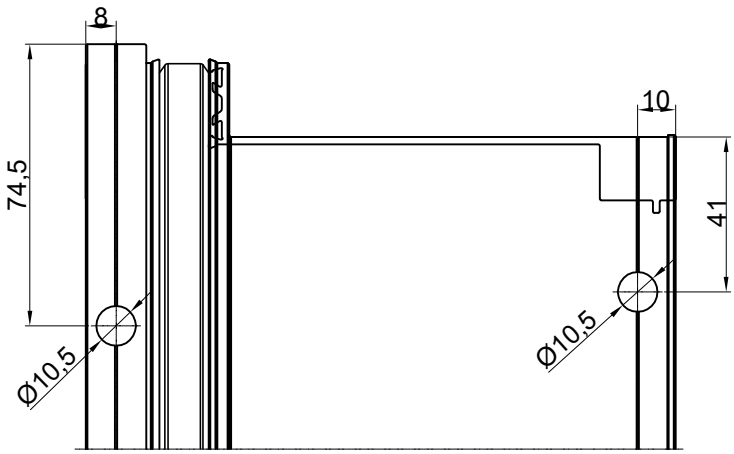


PRESJEK B-B
CROSS-SECTION B-B

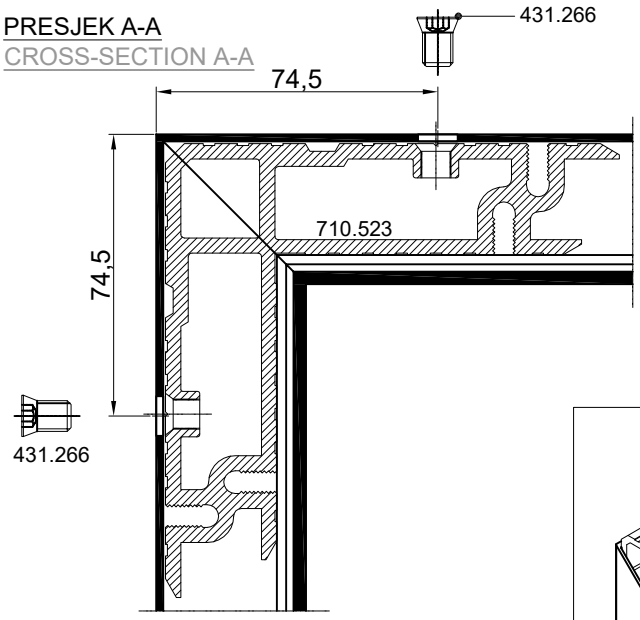


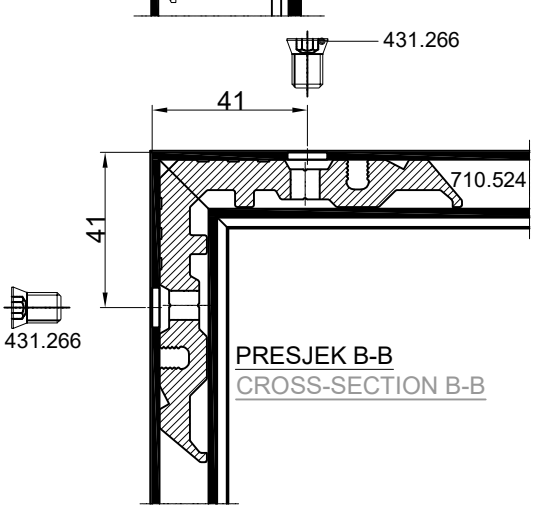


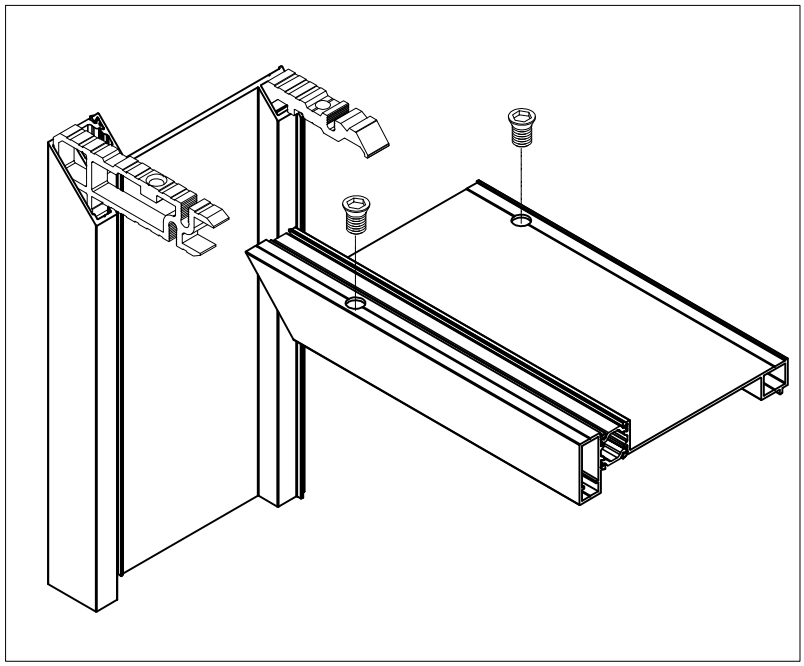


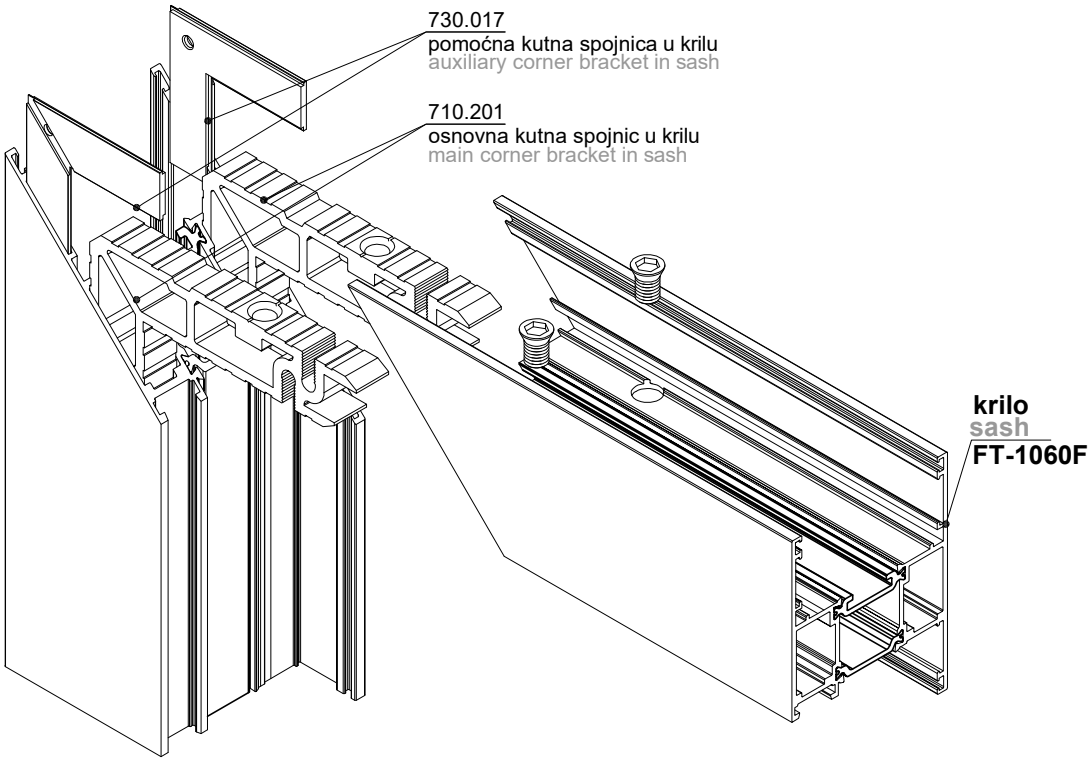


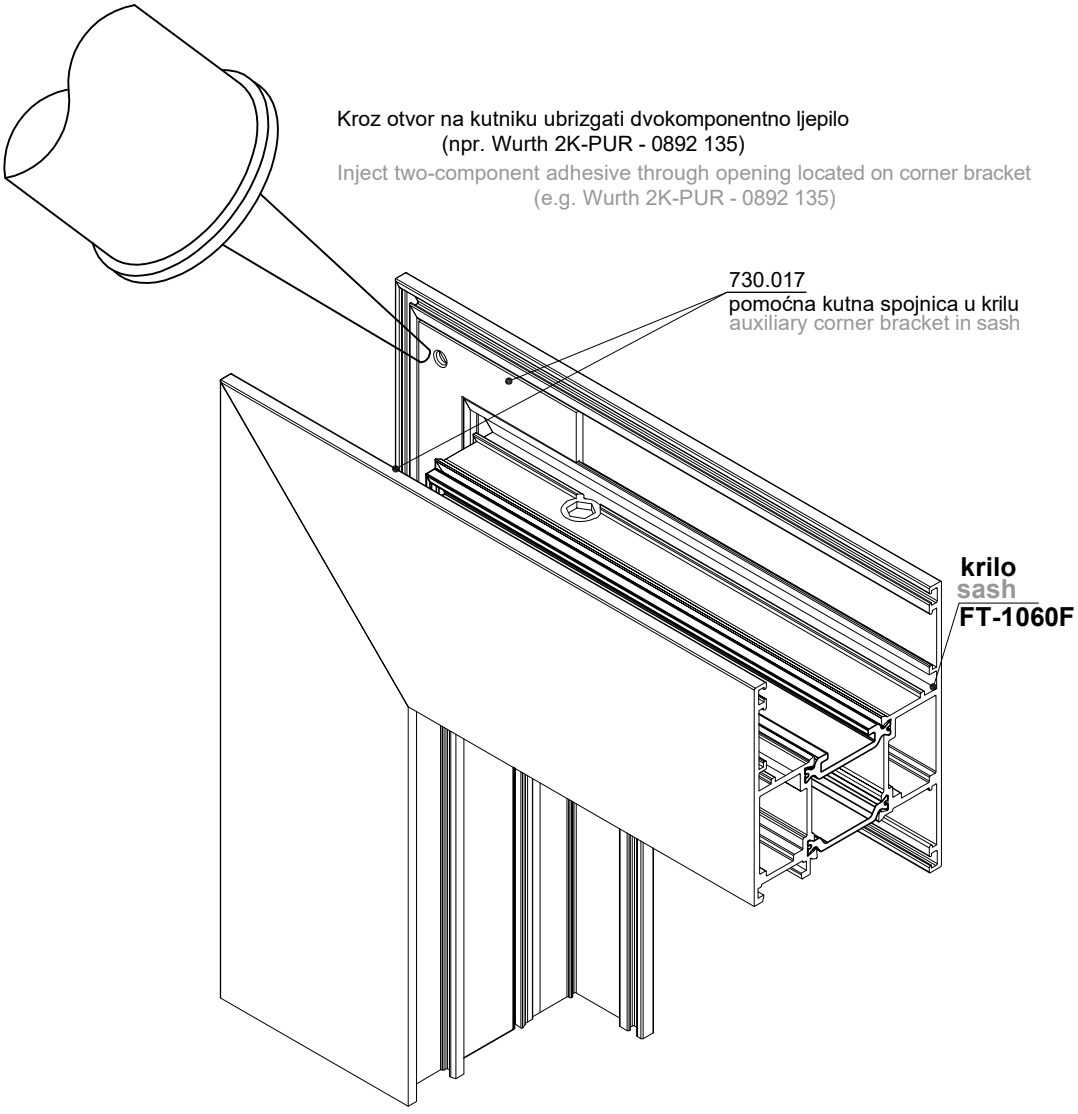
PRESJEK A-A
CROSS-SECTION A-A



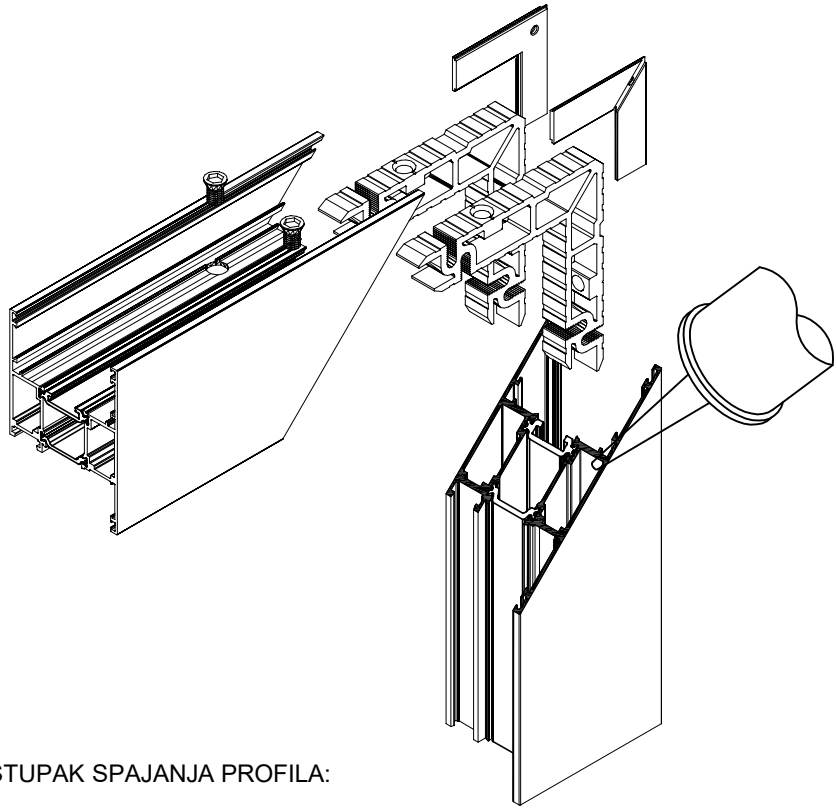





730.017
pomoćna kutna spojnica u krilu
auxiliary corner bracket in sash
710.201
osnovna kutna spojnic u krilu
main corner bracket in sash
krilo
sash
FT-1060F


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)
730.017
pomoćna kutna spojnica u krilu
auxiliary corner bracket in sash
krilo
sash
FT-1060F

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.

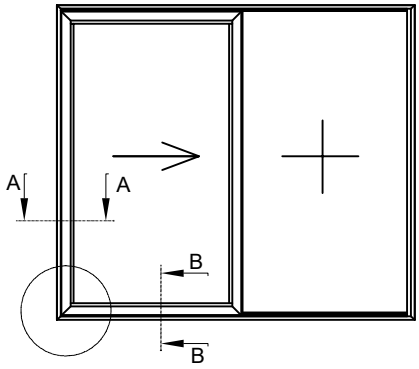
PROFILE MERGING PROCEDURE:

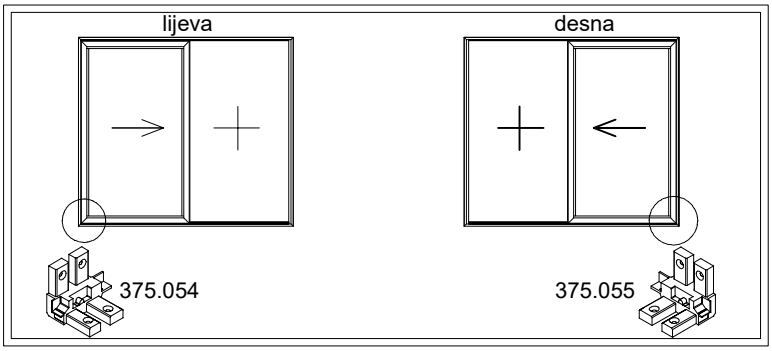
1. Surfaces that are being merged-clean and degrease cuts using adequate cleanser /i.e.Sika Remover 208; Wurth-kat.br.:892 130 30/.
2. Use metal adhesive on surfaces that are being merged /i.e. Sika Force 7851; Wurth-kat.br.:892 130 010/.
3. Inject metal adhesive into corner bracket chamber - around 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/.

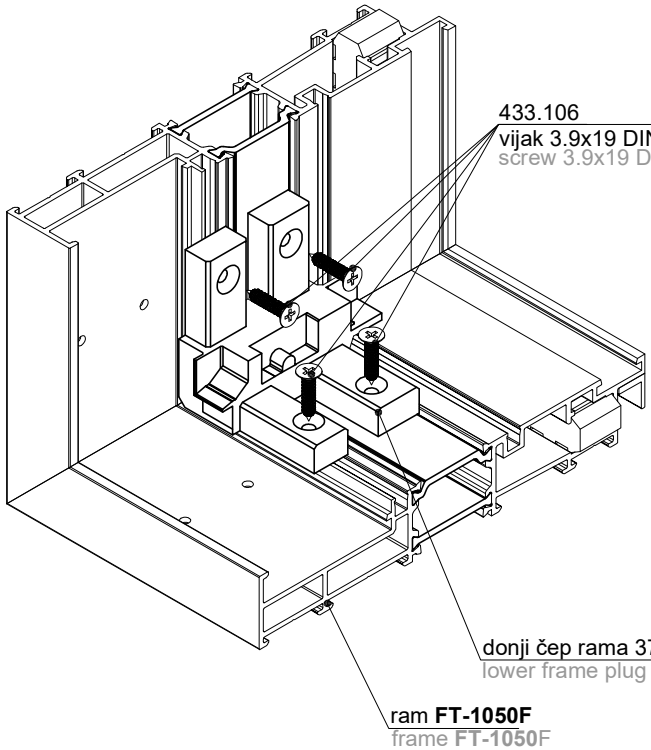
REMARK:

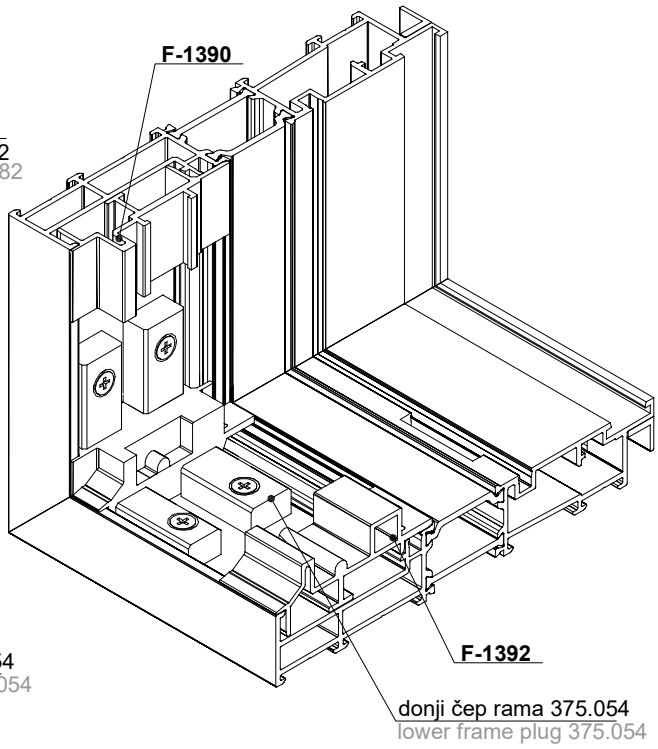
This profile connecting procedure is applicable on any Feal corner bracket and their suitable chamber:

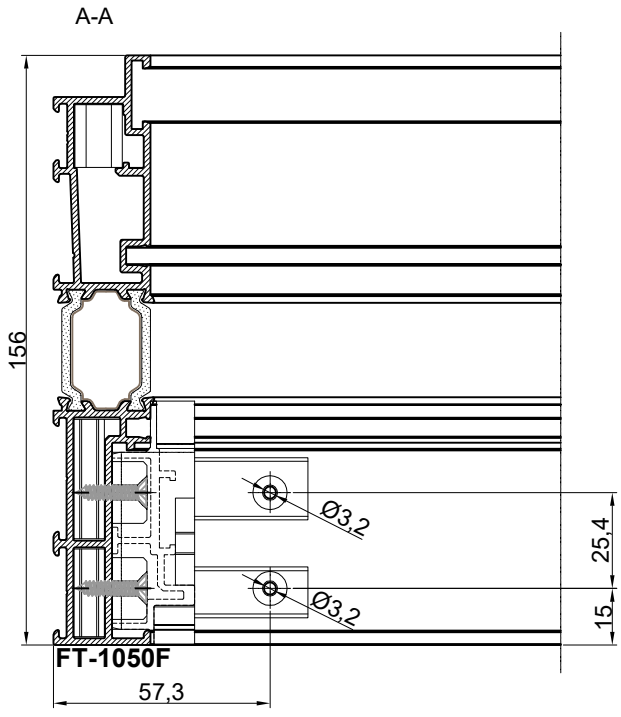
Gluing cuts and corner brackets using adhesives for metal, needed air- and liquid impermeability is provided as well as additional mechanical firmness.

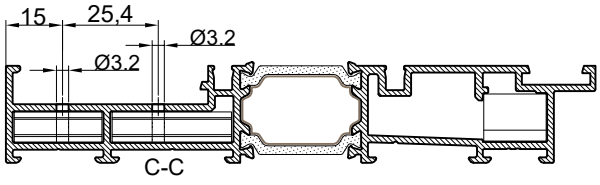

A
A
B
B

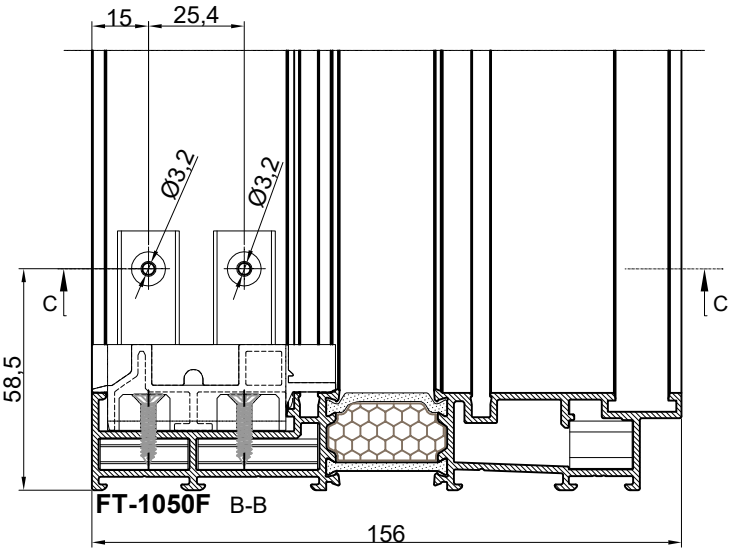

lijeva
desna
375.054
375.055

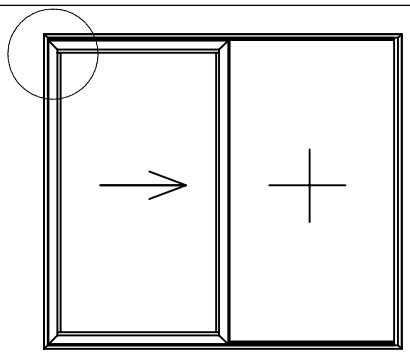

433.106
vijak 3.9x19 DIN7982
screw 3.9x19 DIN7982
donji čep rama 375.054
lower frame plug 375.054
ram FT-1050F
frame FT-1050F

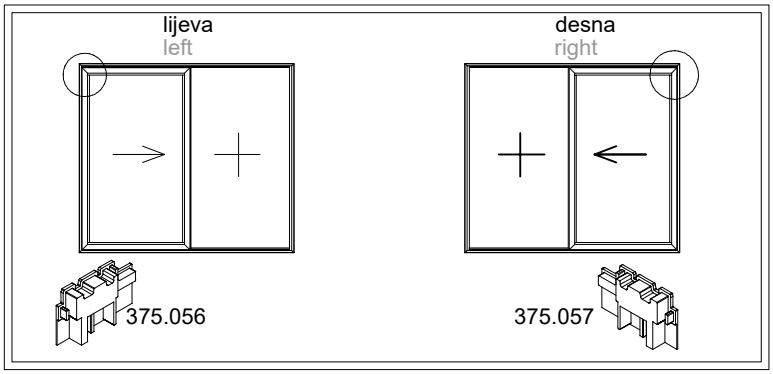

F-1390
F-1392
donji čep rama 375.054
lower frame plug 375.054

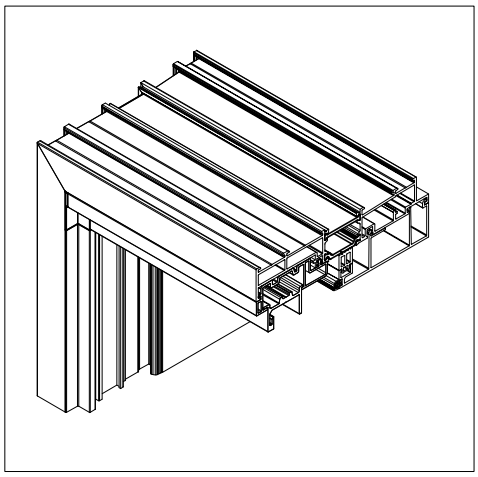

A-A
156
Ø3,2
Ø3,2
25,4
15
FT-1050F
57,3

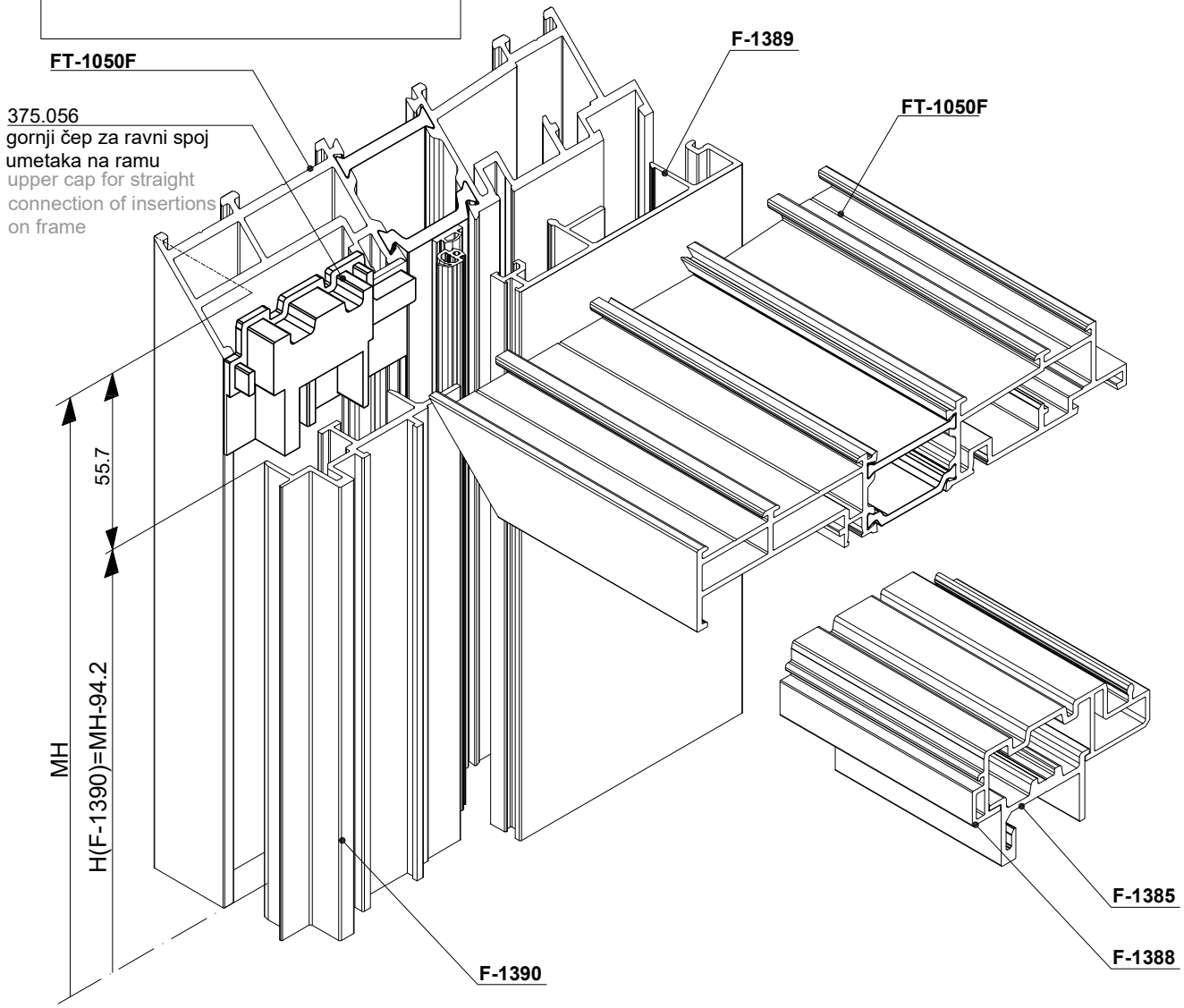

15
25,4
Ø3.2
Ø3.2
C-C

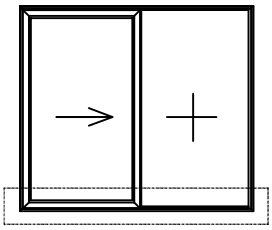

15
25,4
Ø3,2
Ø3,2
C
C
58,5
FT-1050F B-B
156




lijeva
left
desna
right
375.056
375.057

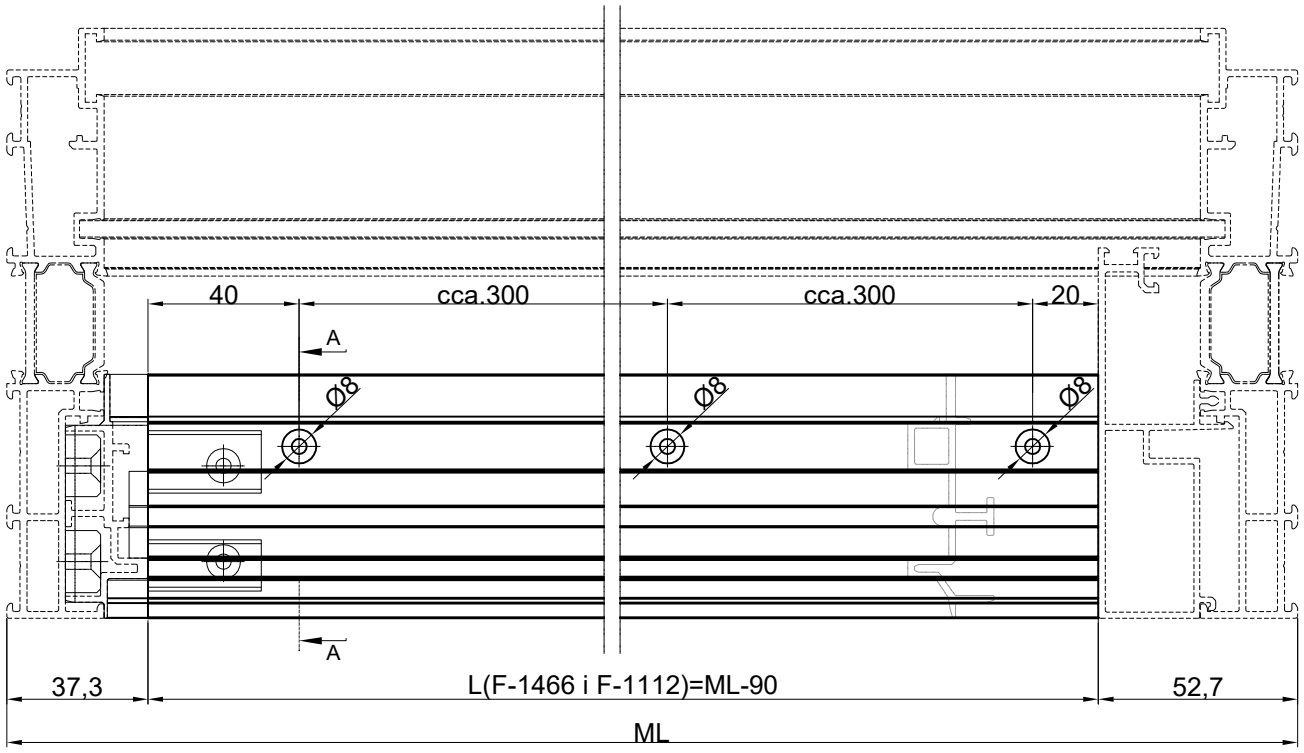


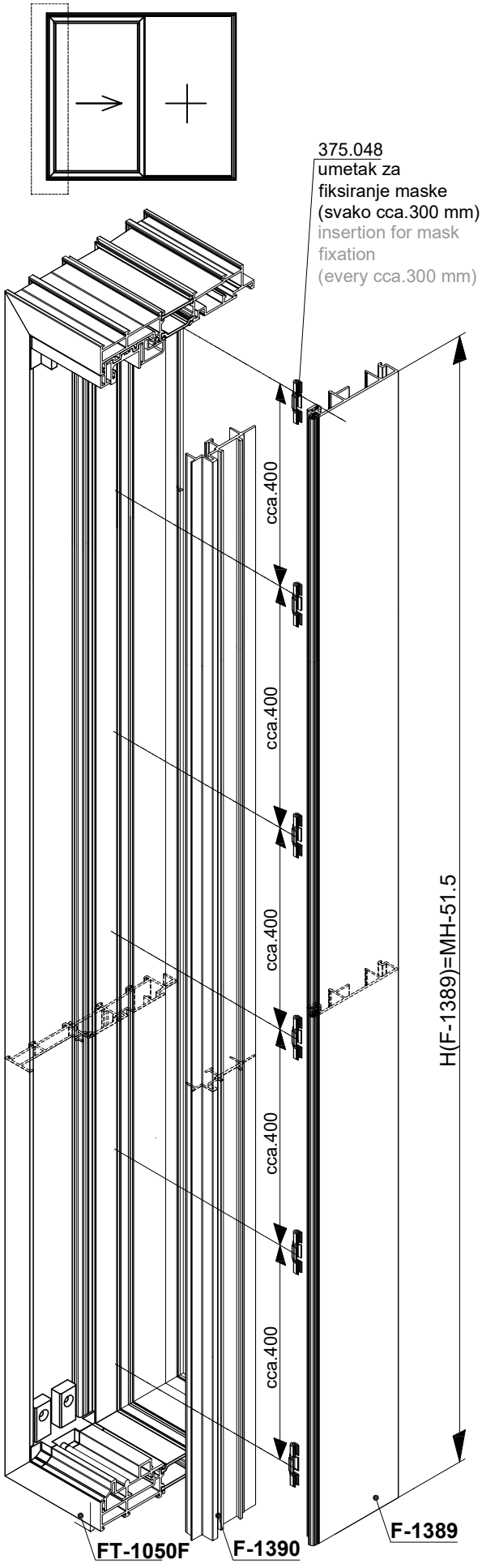

FT-1050F
375.056
gornji čep za ravni spoj
umetaka na ramu
upper cap for straight
connection of insertions
on frame
F-1389
FT-1050F
55.7
MH
H(F-1390)=MH-94.2
F-1385
F-1388
F-1390

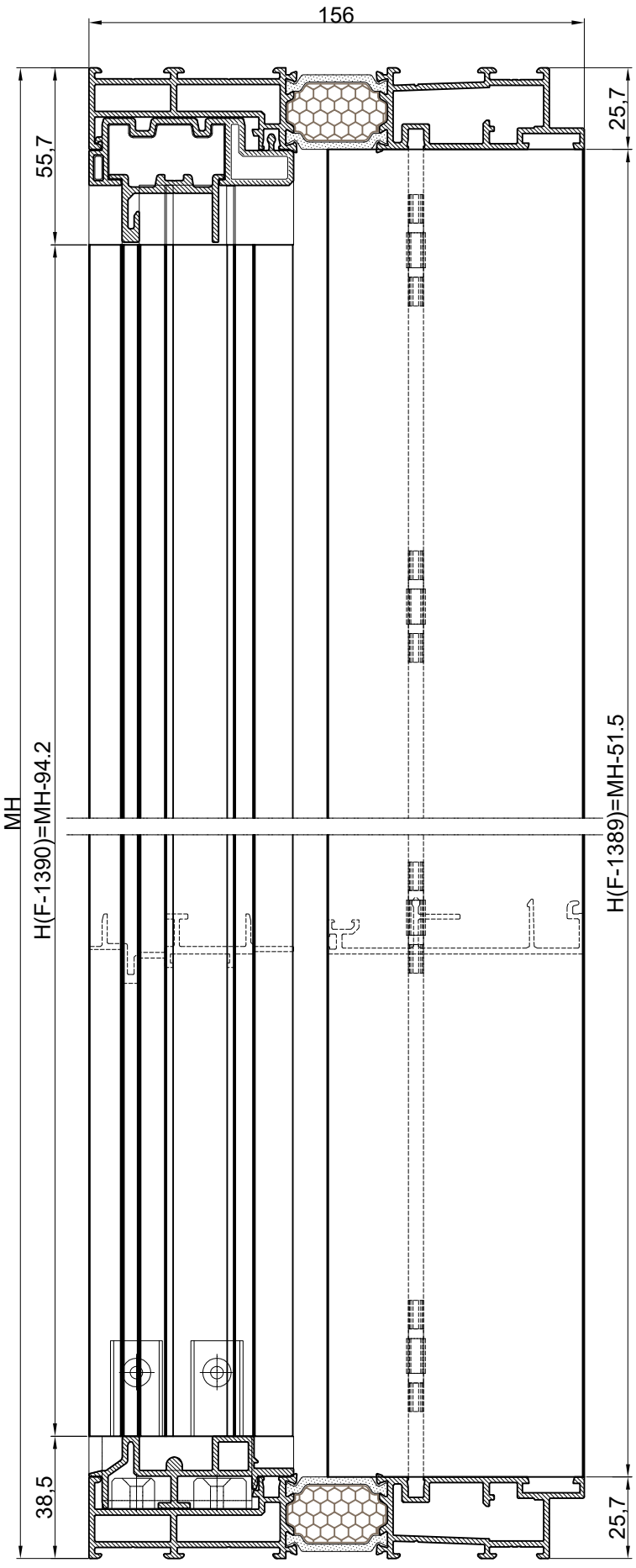


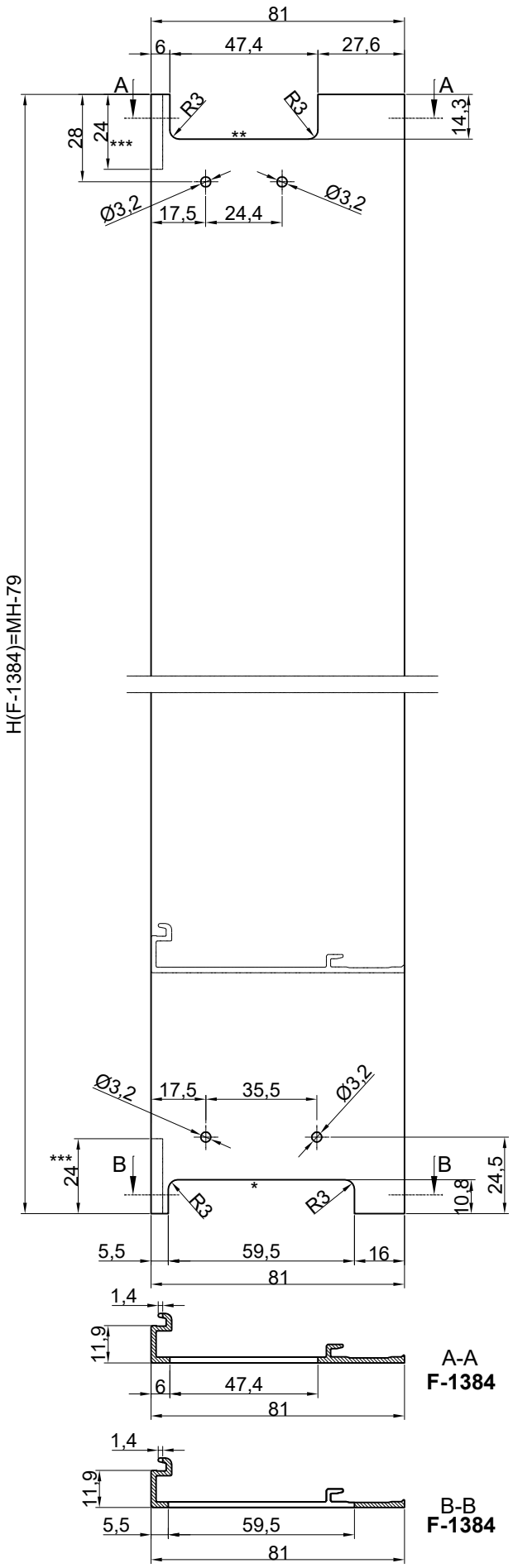
pvc čep za rupu Ø8 mm
pvc hole plug Ø8 mm
433.018
vijak 3.9x19 DIN7981
screw 3.9x19 DIN7981
40
cca.300
cca.300
L(F-1466 i F-1112)=ML-90
433.018
vijak 3.9x19 DIN7981
screw 3.9x19 DIN7981
F-1112
F-1466

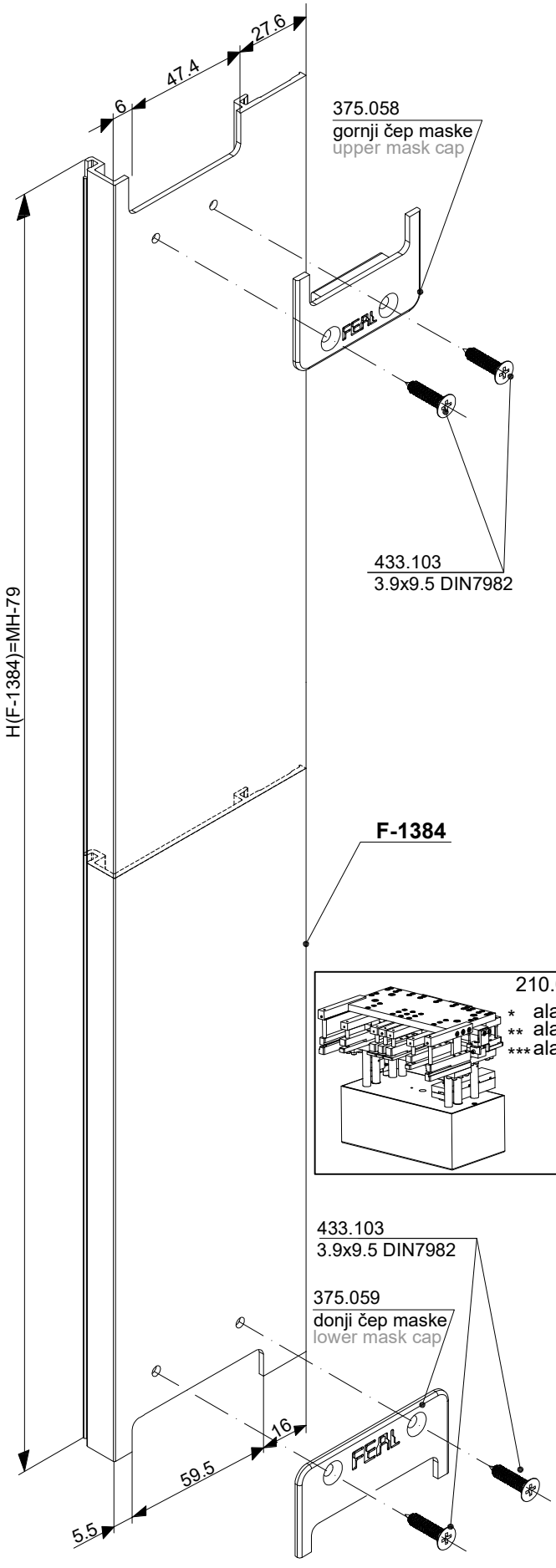
19
Ø8
Ø4
64,5
F-1466
A-A

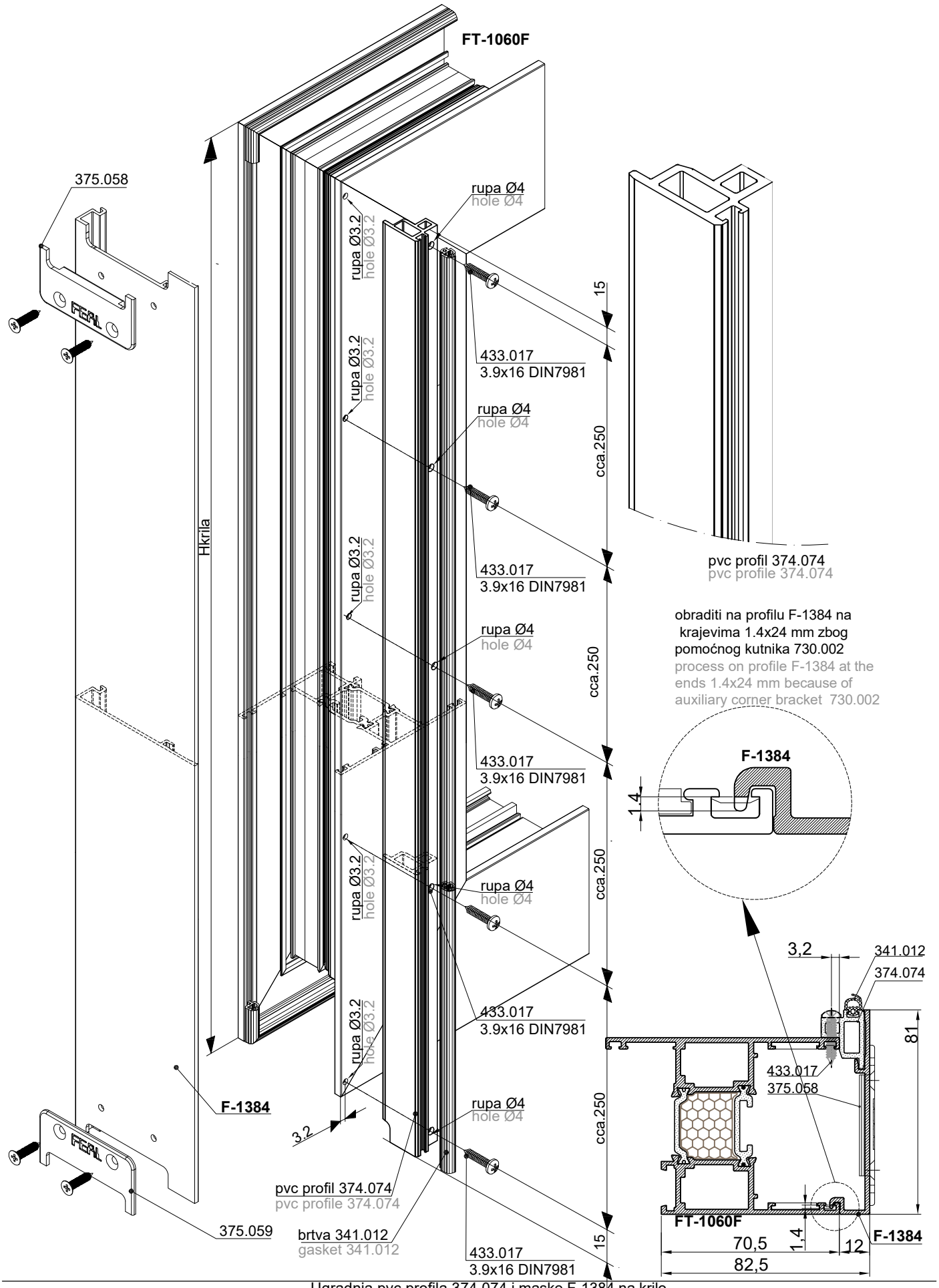

40
cca.300
cca.300
20
A
Ø8
Ø8
Ø8
A
37,3
L(F-1466 i F-1112)=ML-90
52,7
ML

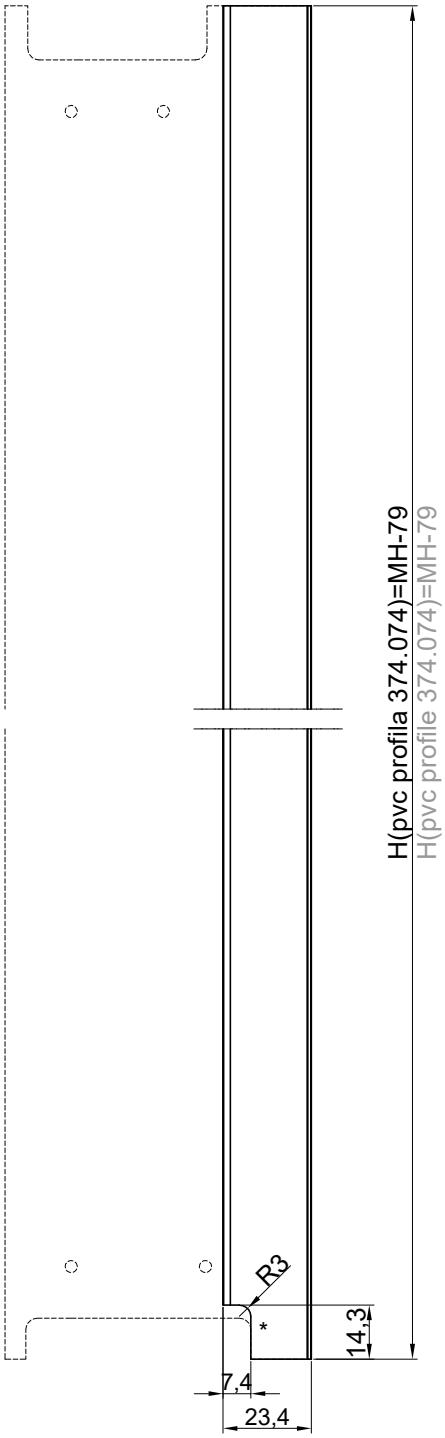

375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask
fixation
(every cca.300 mm)
cca.400
cca.400
cca.400
cca.400
cca.400
H(F-1389)=MH-51.5
FT-1050F
F-1390
F-1389

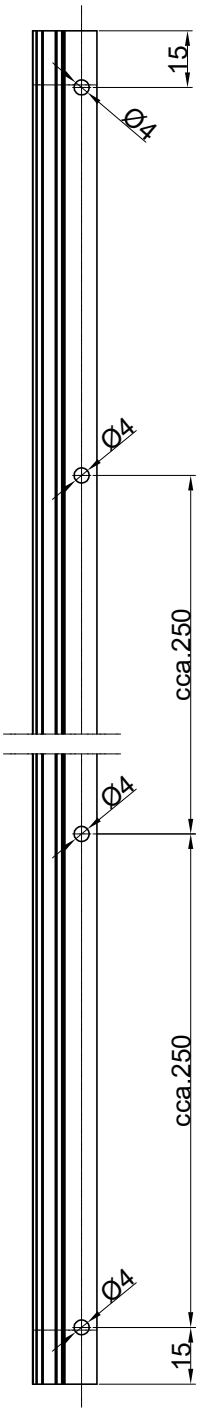

156
55,7
25,7
MH
H(F-1390)=MH-94.2
H(F-1389)=MH-51.5
38,5
25,7

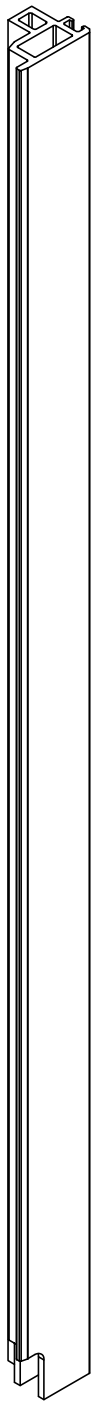

81
6
47,4
27,6
A
A
R3
R3
28
24
***
**
14,3
Ø3,2
17,5
24,4
Ø3,2
H(F-1384)=MH-79
Ø3,2
17,5
35,5
Ø3,2
***
24
B
B
R3
*
R3
10,8
24,5
5,5
59,5
16
81
1,4
11,9
6
47,4
81
A-A
F-1384
1,4
11,9
5,5
59,5
81
B-B
F-1384

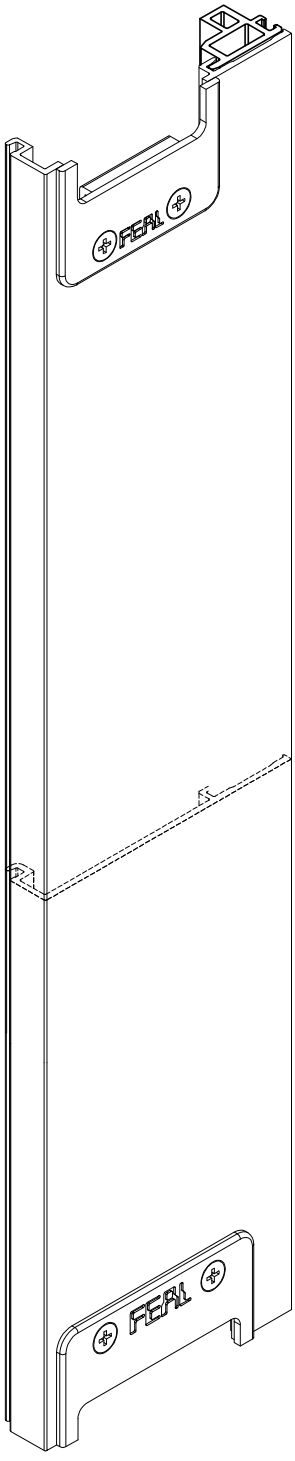

27,6
47,4
6
375.058
gornji čep maske
upper mask cap
433.103
3.9x9.5 DIN7982
H(F-1384)=MH-79
F-1384
210.006
* alat 9
** alat 10
*** alat 12
433.103
3.9x9.5 DIN7982
375.059
donji čep maske
lower mask cap
16
59,5
5,5

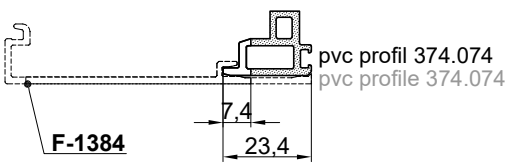

FT-1060F
375.058
rupa Ø4
hole Ø4
rupa Ø3.2
hole Ø3.2
15
433.017
3.9x16 DIN7981
cca.250
Hkrila
pvc profil 374.074
pvc profile 374.074
obraditi na profilu F-1384 na krajevima 1.4x24 mm zbog pomoćnog kutnika 730.002
process on profile F-1384 at the ends 1.4x24 mm because of auxiliary corner bracket 730.002
F-1384
1,4
3,2
341.012
374.074
81
433.017
375.058
F-1384
3,2
pvc profil 374.074
pvc profile 374.074
brtva 341.012
gasket 341.012
375.059
FT-1060F
70,5
82,5
1,4
12
F-1384

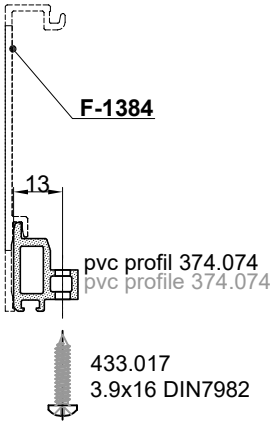

H(pvc profila 374.074)=MH-79
H(pvc profile 374.074)=MH-79
R3
*
14,3
7,4
23,4

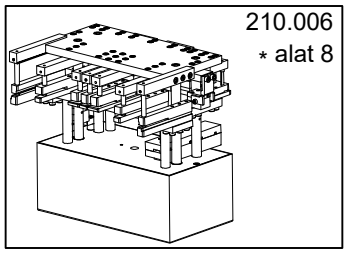

15
Ø4
Ø4
cca.250
Ø4
cca.250
Ø4
15

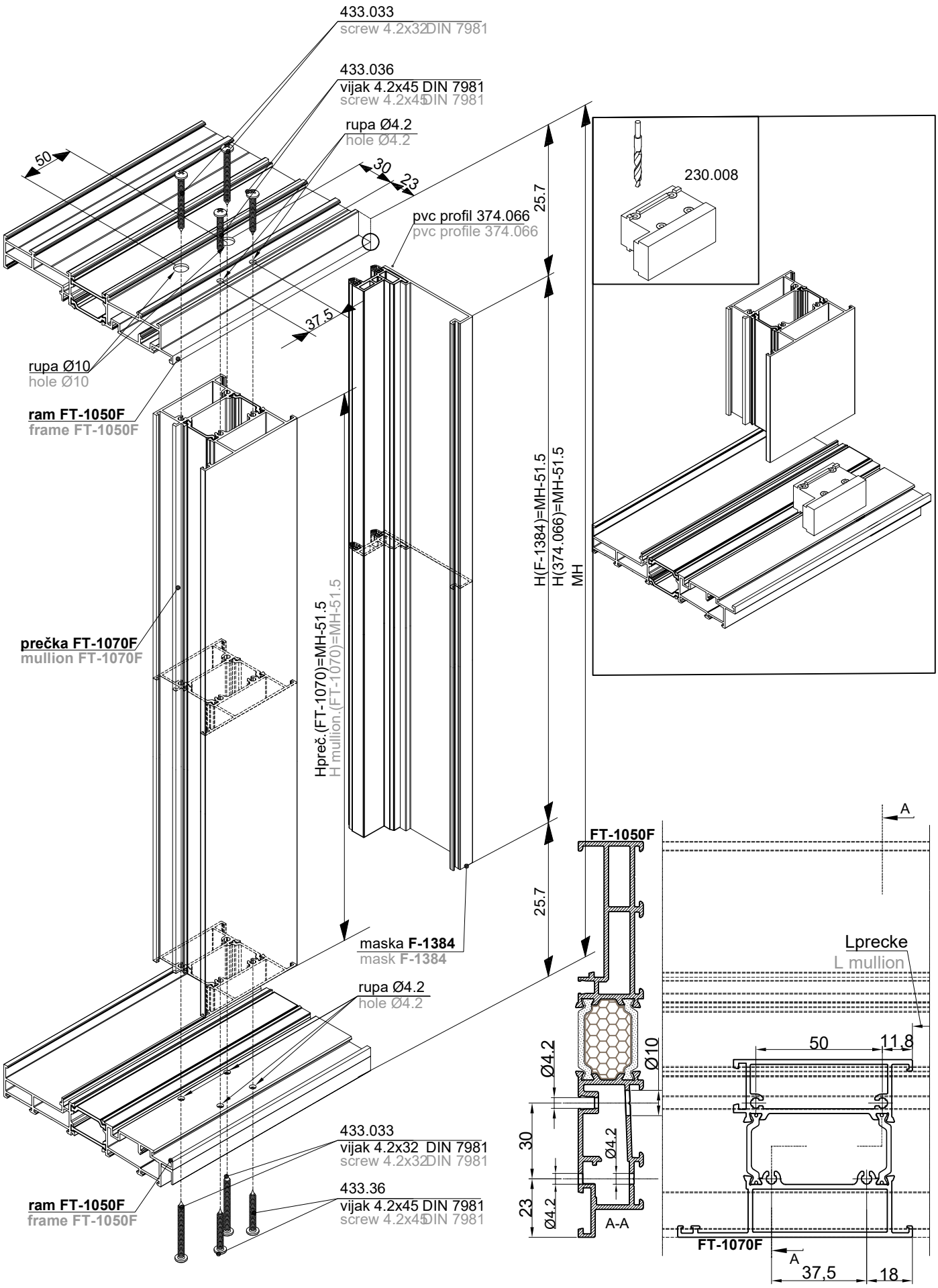


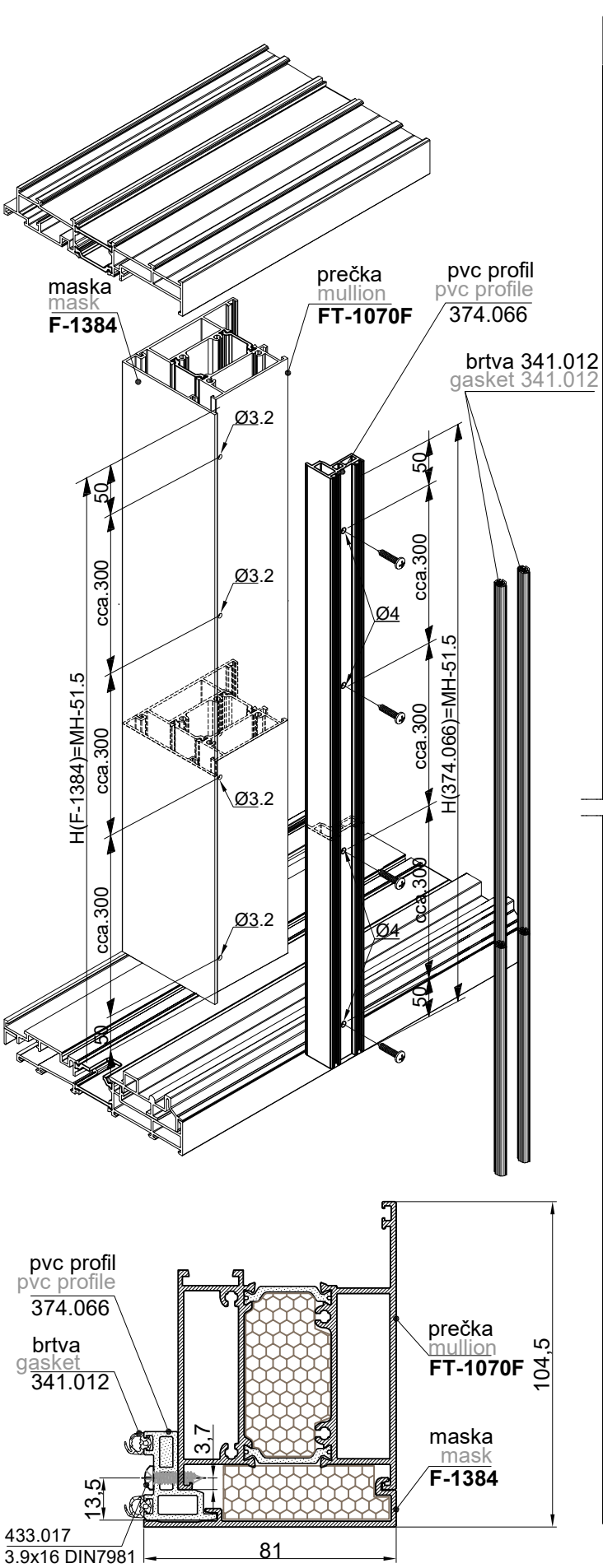

FEAL
FEAL

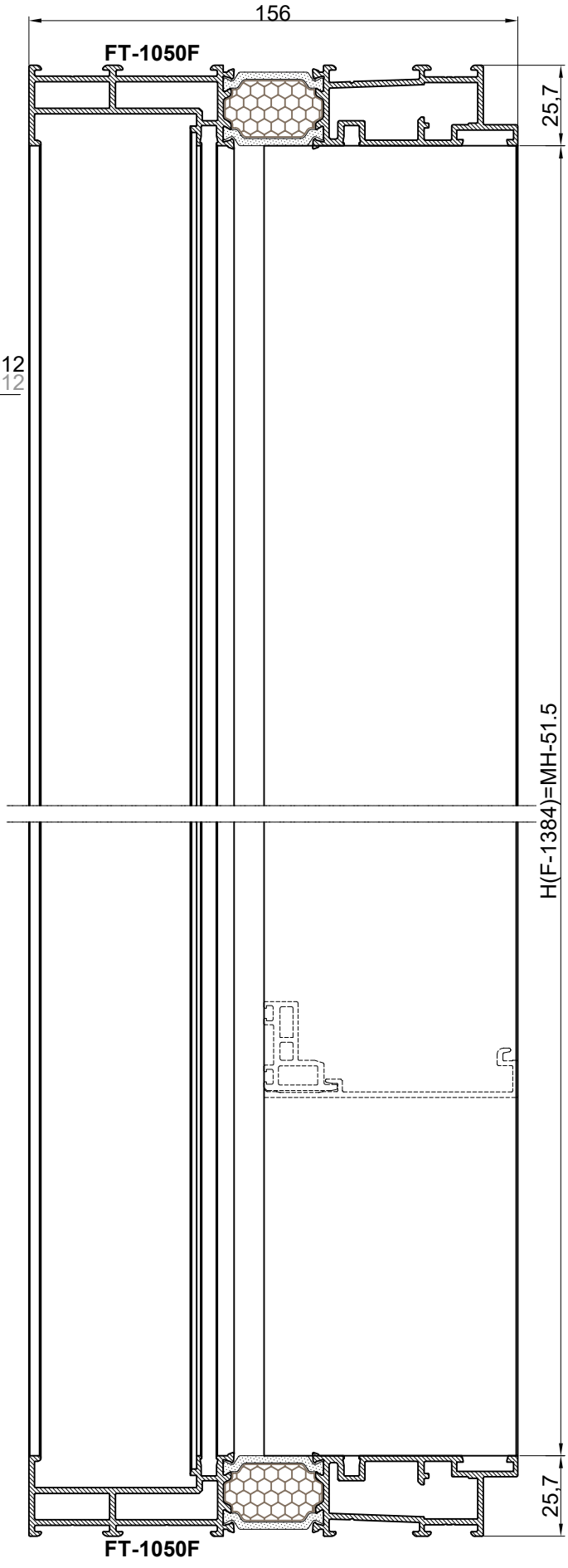

pvc profil 374.074
pvc profile 374.074
7,4
23,4
F-1384

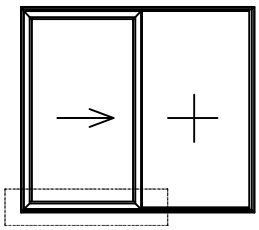

F-1384
13
pvc profil 374.074
pvc profile 374.074
433.017
3.9x16 DIN7982

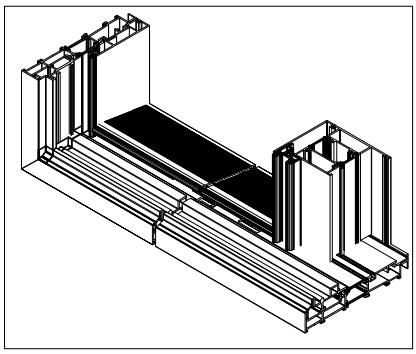

210.006
* alat 8


433.033
screw 4.2x32DIN 7981
433.036
vijak 4.2x45 DIN 7981
screw 4.2x45DIN 7981
rupa Ø4.2
hole Ø4.2
50
30
23
pvc profil 374.066
pvc profile 374.066
25.7
37.5
rupa Ø10
hole Ø10
ram FT-1050F
frame FT-1050F
230.008
H(F-1384)=MH-51.5
H(374.066)=MH-51.5
MH
prečka FT-1070F
mullion FT-1070F
Hpreč.(FT-1070)=MH-51.5
H mullion.(FT-1070)=MH-51.5
maska F-1384
mask F-1384
rupa Ø4.2
hole Ø4.2
433.033
vijak 4.2x32 DIN 7981
screw 4.2x32DIN 7981
433.36
vijak 4.2x45 DIN 7981
screw 4.2x45DIN 7981
ram FT-1050F
frame FT-1050F
FT-1050F
25.7
Ø4.2
Ø10
30
Ø4.2
23
Ø4.2
A-A
A
Lprecke
L mullion
50
11,8
FT-1070F
A
37,5
18

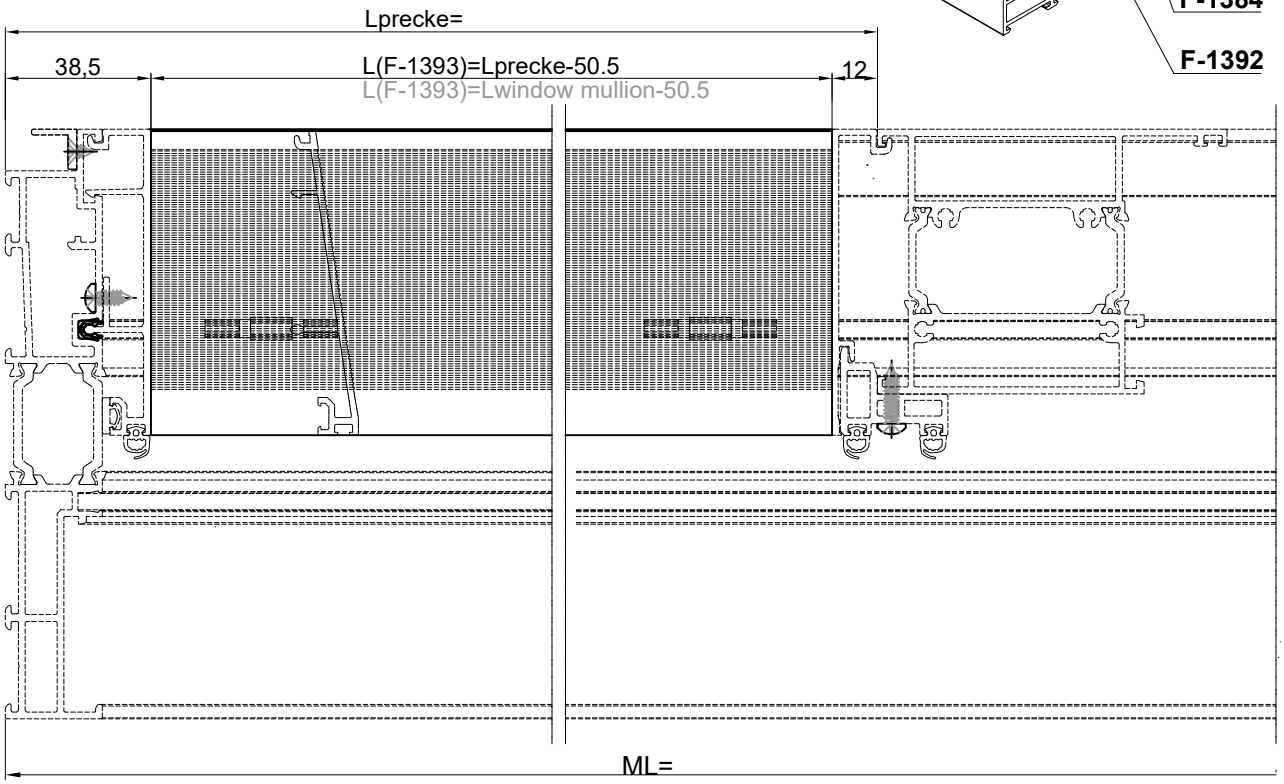

maska
mask
F-1384
prečka
mullion
FT-1070F
pvc profil
pvc profile
374.066
brtva 341.012
gasket 341.012
Ø3.2
Ø3.2
Ø3.2
Ø3.2
Ø4
Ø4
50
cca.300
cca.300
cca.300
cca.300
cca.300
50
50
H(F-1384)=MH-51.5
H(374.066)=MH-51.5
pvc profil
pvc profile
374.066
brtva
gasket
341.012
prečka
mullion
FT-1070F
maska
mask
F-1384
104,5
3,7
13,5
433.017
3.9x16 DIN7981
81

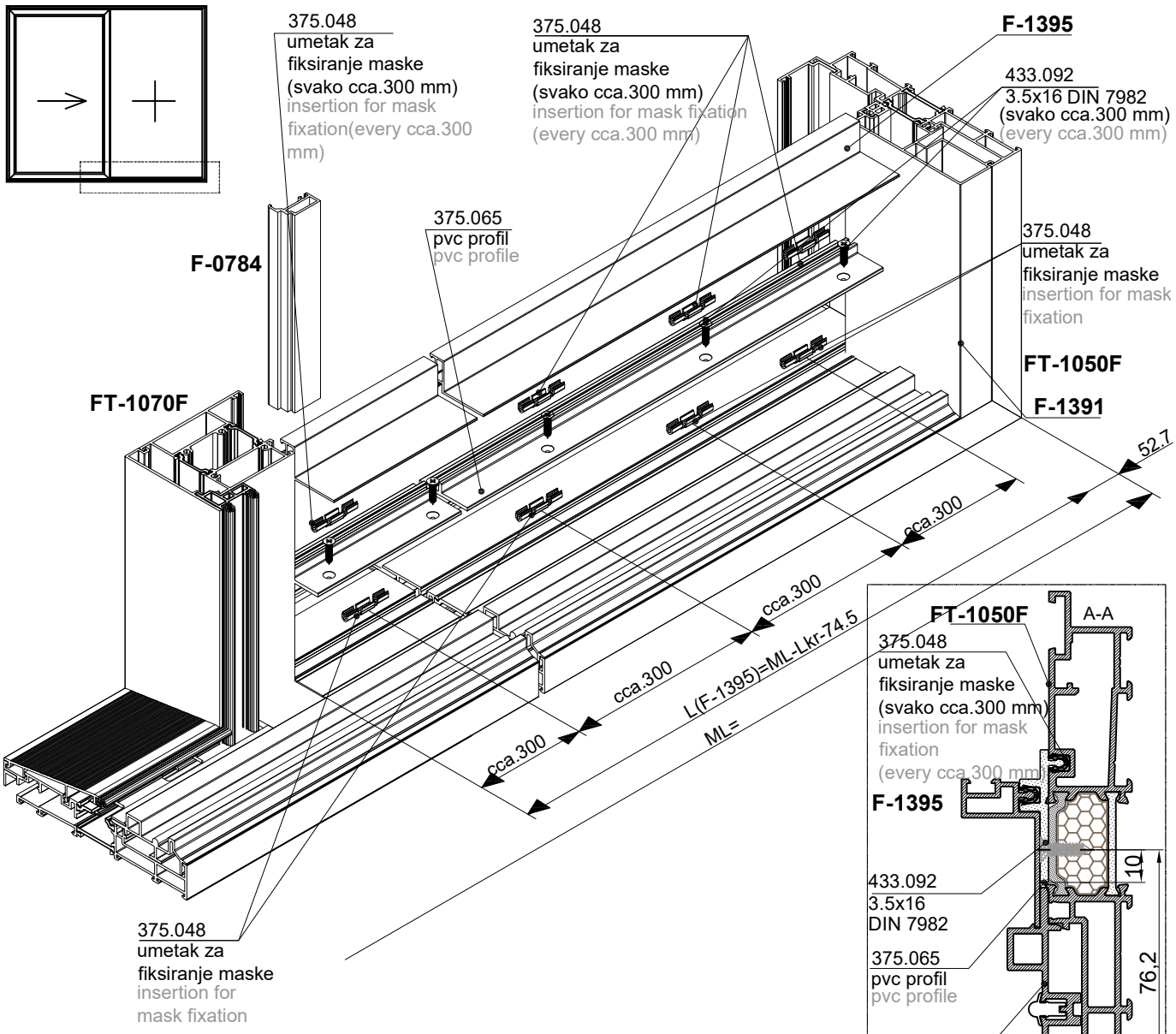

156
FT-1050F
25,7
H(F-1384)=MH-51.5
25,7
FT-1050F

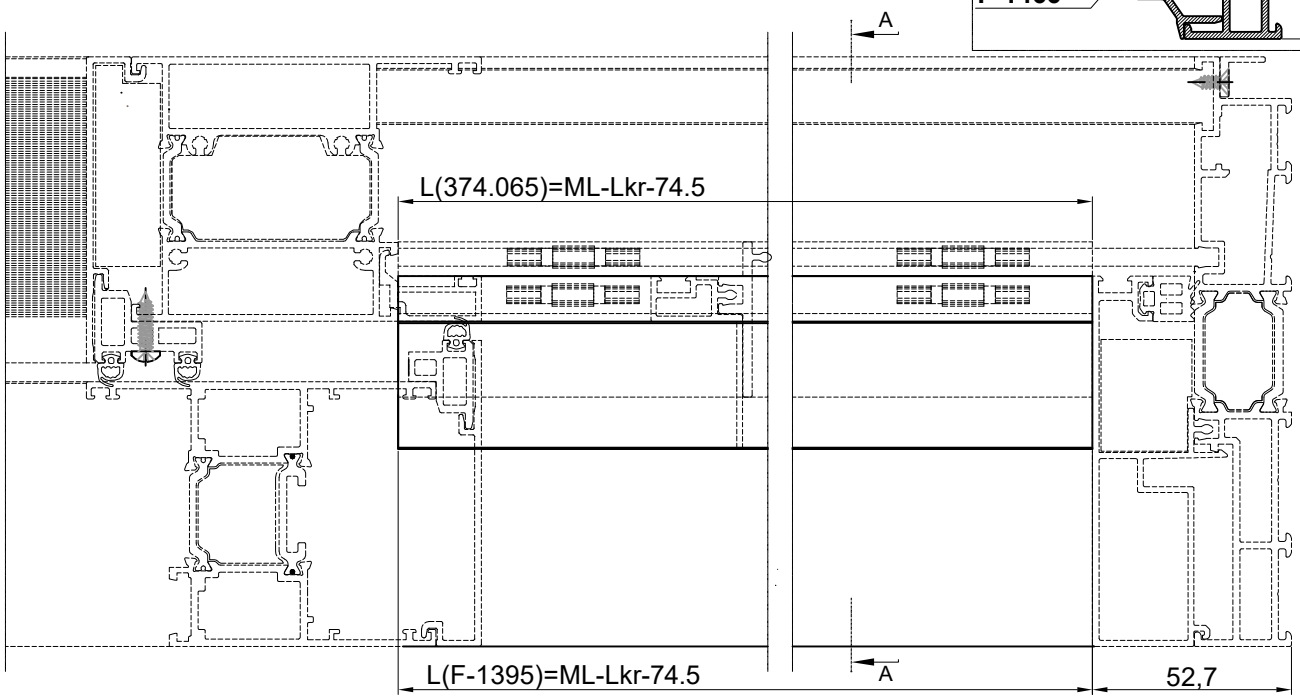


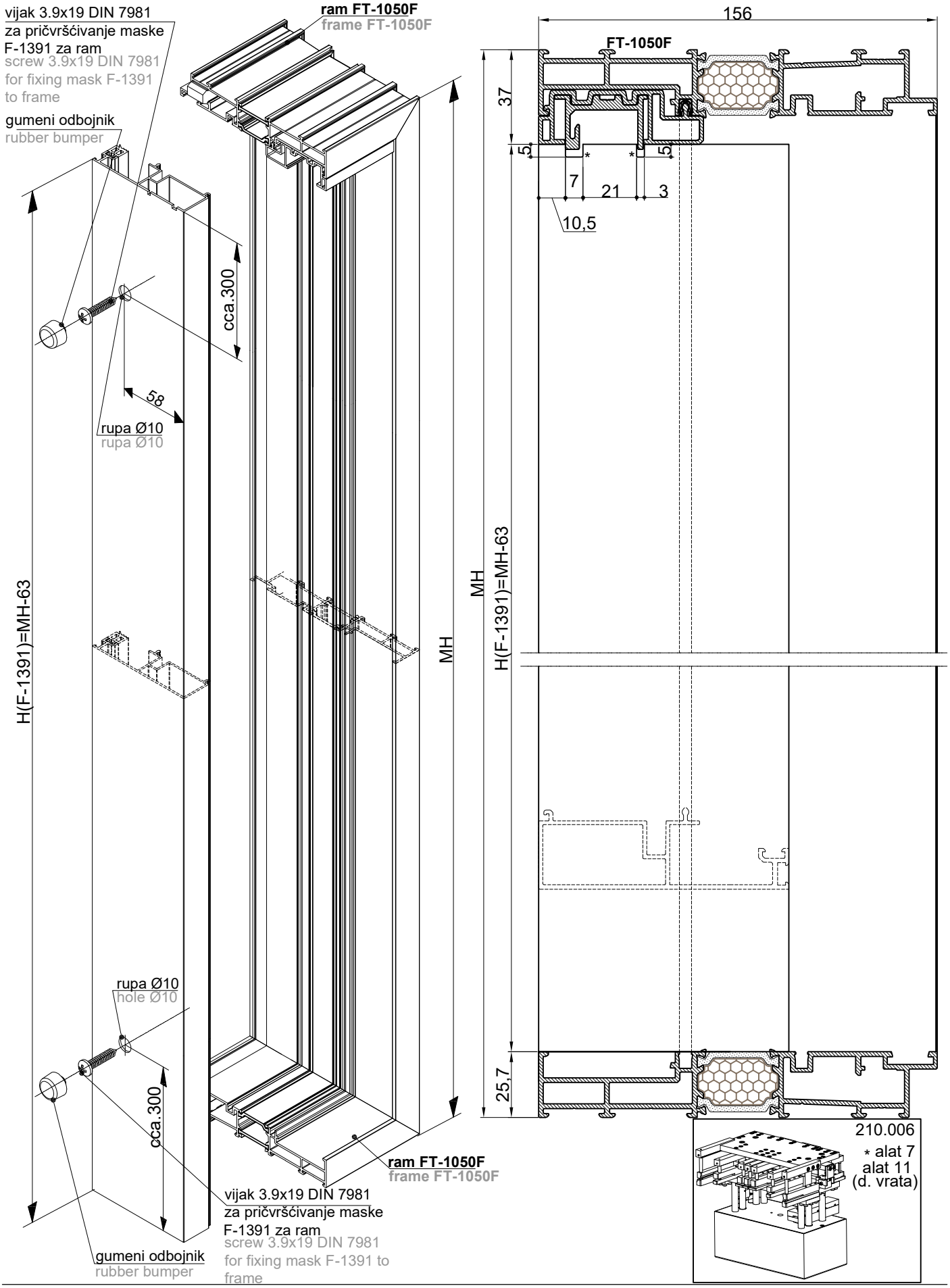


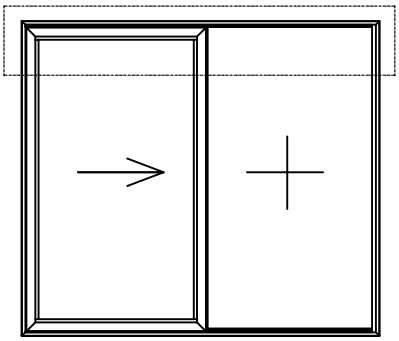
F-1389
F-1390
38.5
Lprečke=
L mullion=
L(F-1393)=Lprecke-50.5
L(F-1393)=L mullion-50.5
cca.300
cca.300
cca.300
cca.300
12
375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask
fixation(every cca.300
mm)
375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask fixation
(every cca.300 mm)
FT-1050
F-1384
F-1392


Lprecke=
38,5
L(F-1393)=Lprecke-50.5
L(F-1393)=Lwindow mullion-50.5
12
ML=

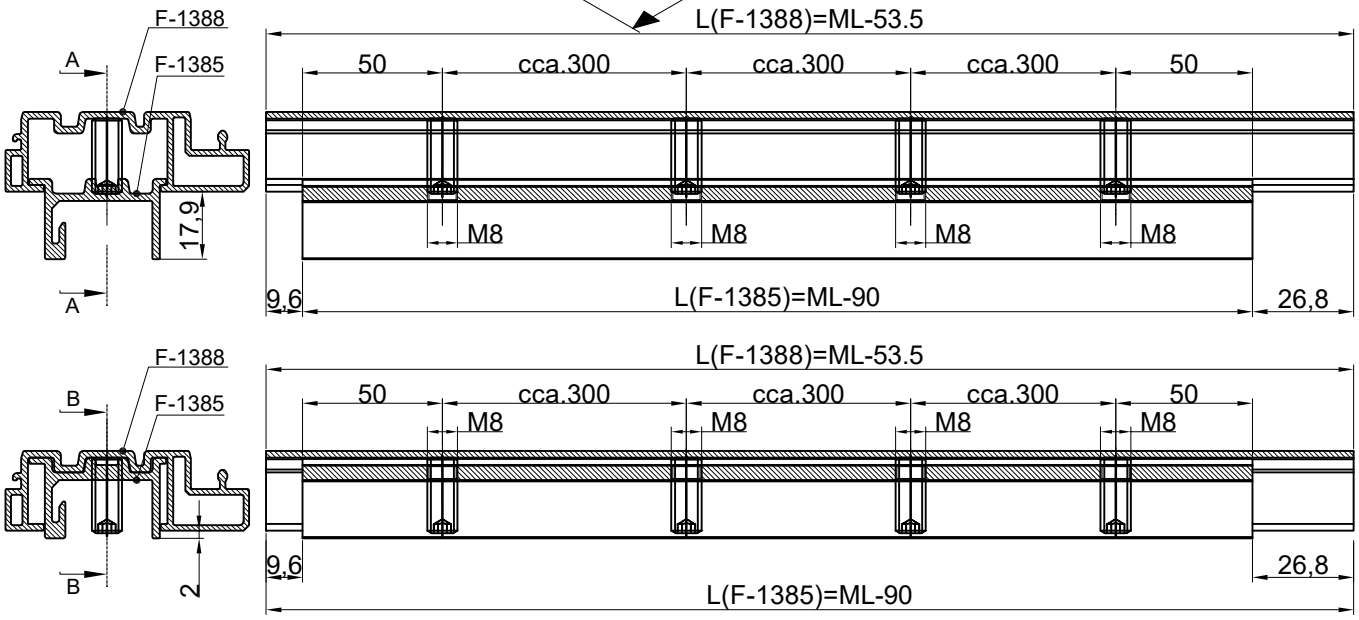

375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask
fixation(every cca.300
mm)
375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask fixation
(every cca.300 mm)
F-1395
433.092
3.5x16 DIN 7982
(svako cca.300 mm)
(every cca.300 mm)
375.065
pvc profil
pvc profile
F-0784
375.048
umetak za
fiksiranje maske
insertion for mask
fixation
FT-1050F
F-1391
FT-1070F
52.7
cca.300
cca.300
cca.300
cca.300
L(F-1395)=ML-Lkr-74.5
ML=
375.048
umetak za
fiksiranje maske
insertion for
mask fixation
FT-1050F
A-A
375.048
umetak za
fiksiranje maske
(svako cca.300 mm)
insertion for mask
fixation
(every cca.300 mm)
F-1395
433.092
3.5x16
DIN 7982
375.065
pvc profil
pvc profile
F-1466
10
76,2

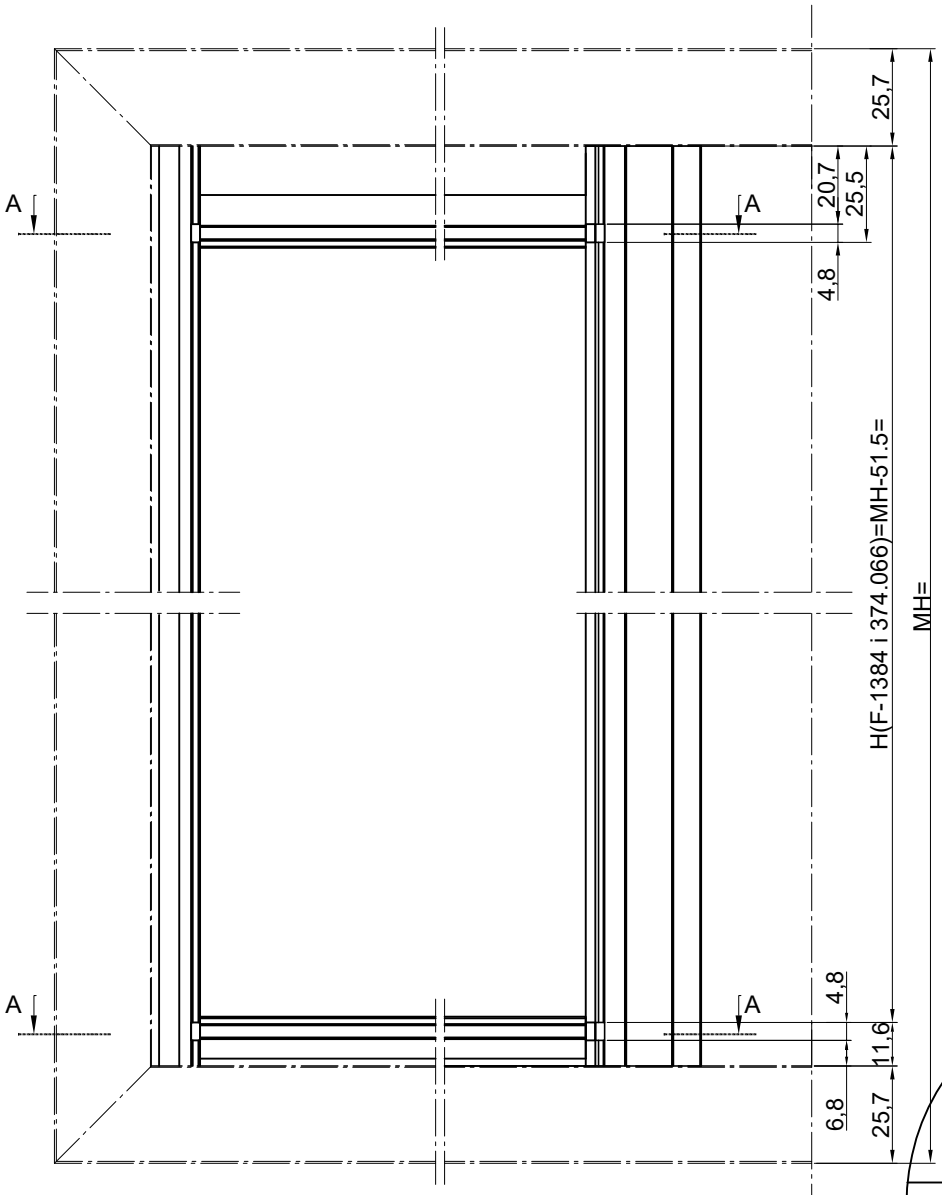

A
L(374.065)=ML-Lkr-74.5
L(F-1395)=ML-Lkr-74.5
A
52,7

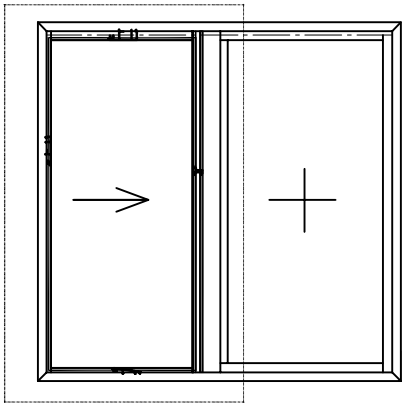

vijak 3.9x19 DIN 7981
za pričvršćivanje maske
F-1391 za ram
screw 3.9x19 DIN 7981
for fixing mask F-1391
to frame
gumeni odbojnik
rubber bumper
ram FT-1050F
frame FT-1050F
cca.300
58
rupa Ø10
rupa Ø10
H(F-1391)=MH-63
MH
rupa Ø10
hole Ø10
cca.300
gumeni odbojnik
rubber bumper
vijak 3.9x19 DIN 7981
za pričvršćivanje maske
F-1391 za ram
screw 3.9x19 DIN 7981
for fixing mask F-1391 to
frame
ram FT-1050F
frame FT-1050F
156
FT-1050F
37
5
5
7
21
3
10,5
MH
H(F-1391)=MH-63
25,7
210.006
* alat 7
alat 11
(d. vrata)

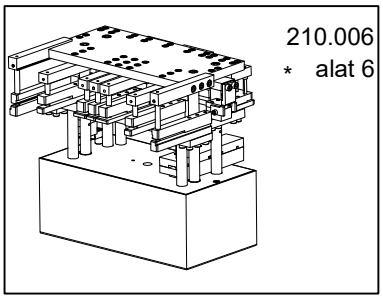


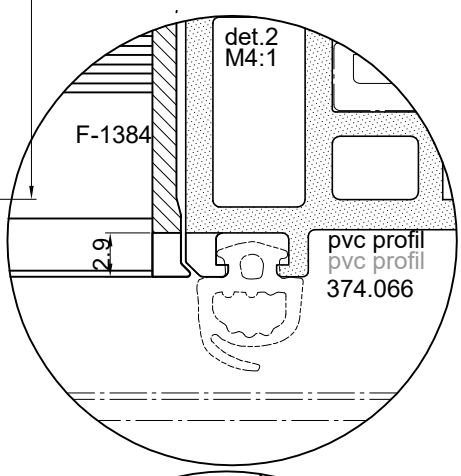
ML
F-1391
profil F-1385 u spuštenom položaju (krilo u funkciji)
profile F-1385 in downcast position (sash in function)
375.048
umetak za fiksiranje maske (svako cca.300 mm)
insertion for mask fixation (every cca.300 mm)
cca.300
cca.300
cca.300
cca.300
cca.300
431.759
vijak M8X20 DIN913
screw M8X20 DIN913
375.048
umetak za fiksiranje maske (svako cca.300 mm)
insert for mask fixation(every cca.300 mm)
431.759
vijak M8X20 DIN913
screw M8X20 DIN913
L(F-1388)=ML-53.5
profil F-1385 u podignutom položaju (mogućnost ubacivanja krila u ram)
profile F-1385 in elevated position (possibility of sash insertion into frame)

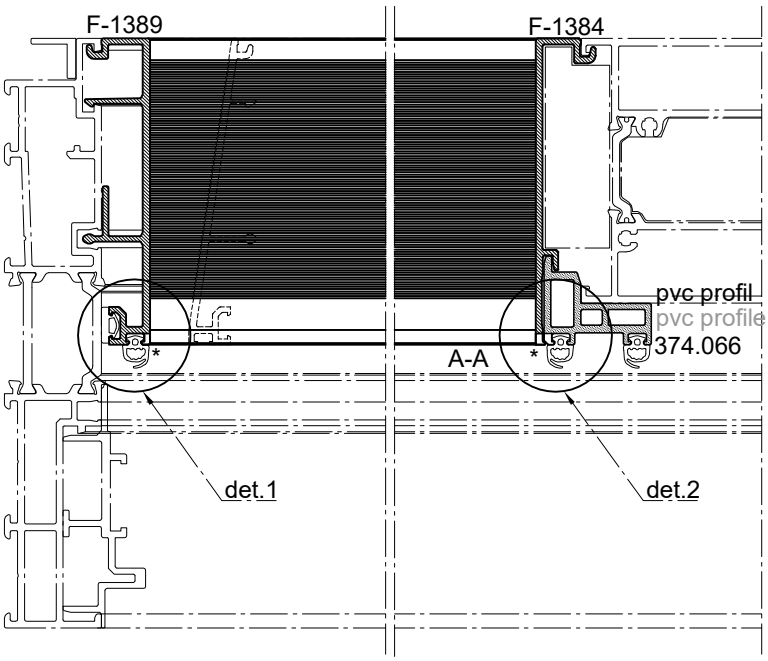

F-1388
F-1385
A
A
17,9
L(F-1388)=ML-53.5
50
cca.300
cca.300
cca.300
50
M8
M8
M8
M8
9,6
L(F-1385)=ML-90
26,8
F-1388
F-1385
B
B
2
L(F-1388)=ML-53.5
50
cca.300
cca.300
cca.300
50
M8
M8
M8
M8
9,6
26,8
L(F-1385)=ML-90

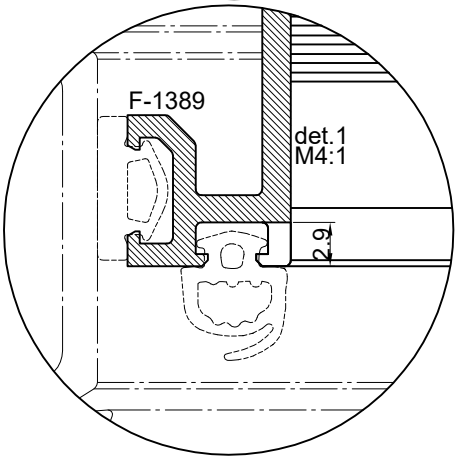

A
A
A
A
25,7
20,7
25,5
4,8
H(F-1384 i 374.066)=MH-51.5=
MH=
4,8
11,6
6,8
25,7

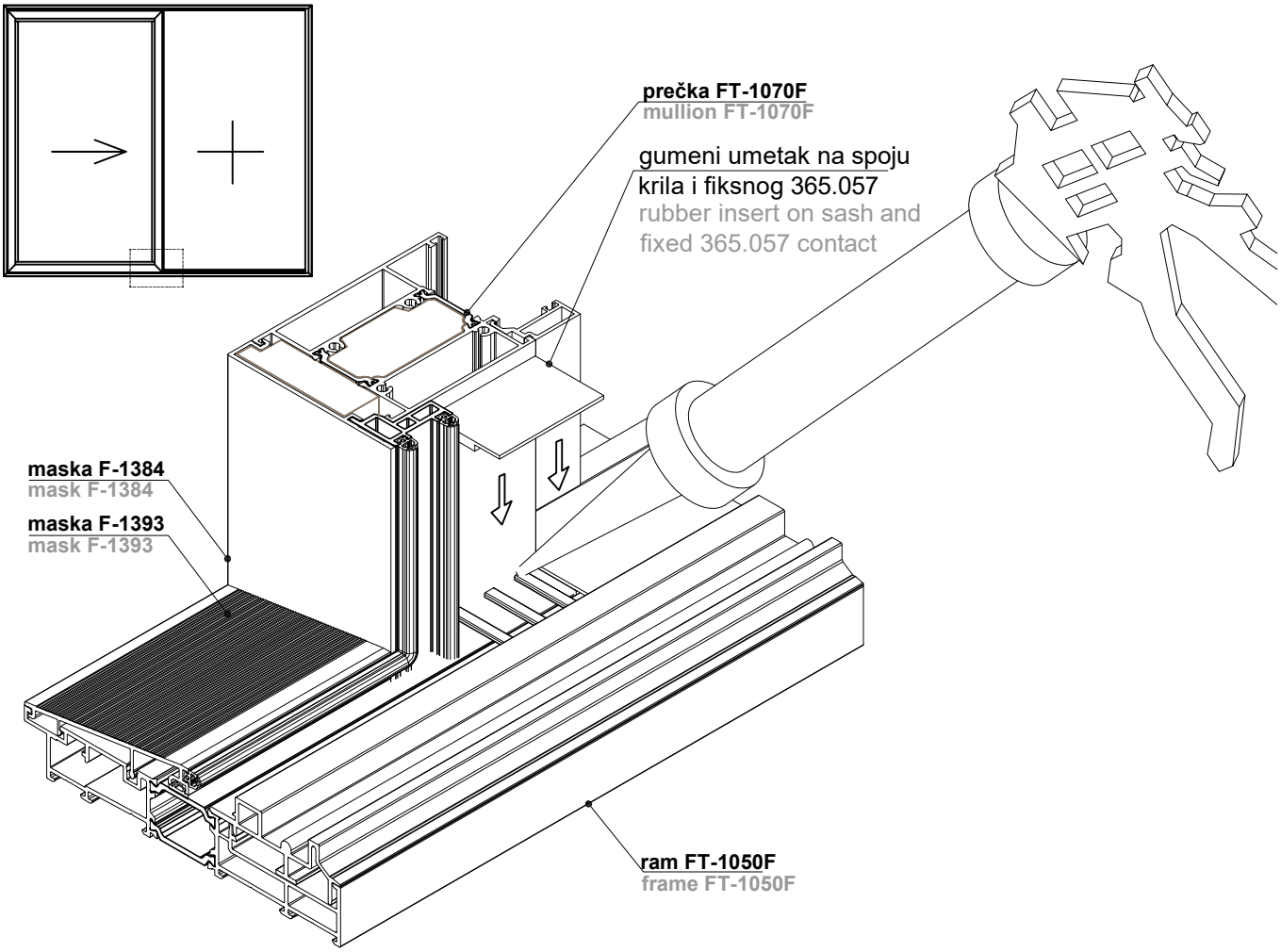


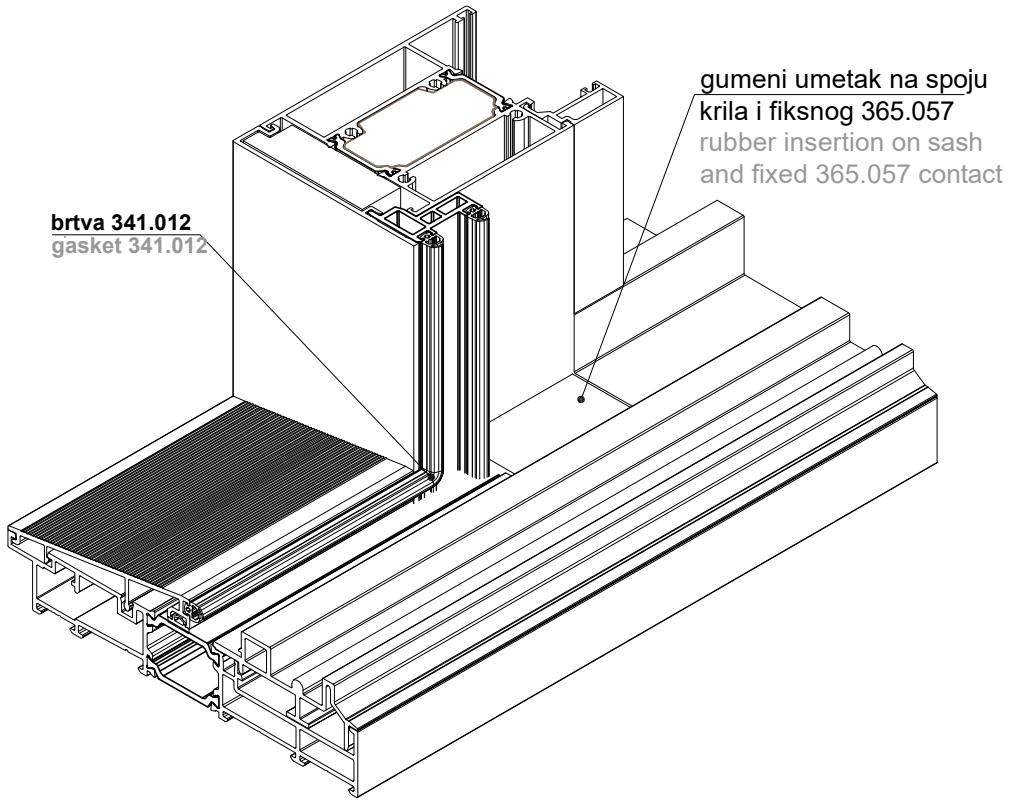

210.006
* alat 6

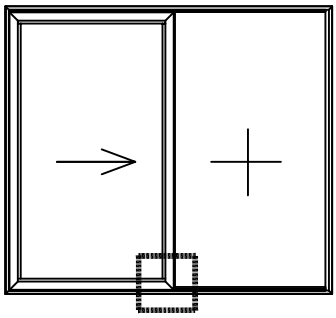

det.2
M4:1
F-1384
2,9
pvc profil
pvc profil
374.066


F-1389
F-1384
pvc profil
pvc profile
374.066
A-A
*
*
det.1
det.2


F-1389
det.1
M4:1
2,9


prečka FT-1070F
mullion FT-1070F
gumeni umetak na spoju krila i fiksnog 365.057
rubber insert on sash and fixed 365.057 contact
maska F-1384
mask F-1384
maska F-1393
mask F-1393
ram FT-1050F
frame FT-1050F


gumeni umetak na spoju krila i fiksnog 365.057
rubber insertion on sash and fixed 365.057 contact
brtva 341.012
gasket 341.012



spoj između prečke i horizontalnog pojasa rama ispuniti dvokomponentnim ljepilom tipa: Wurth 2K-PUR - 0892 135
fill mullion and horizontal zone of frame connection with two-component adhesive, i.e:
Wurth 2K-PUR - 0892 135

prečka FT-1070F
mullion FT-1070F

spoj između prečke i vertikalne maske i pvc umetka ispuniti silikonskim ljepilom
fill mullion, vertical mask and pvc insert joint with silicone adhesive

pvc umetak 374.066
pvc insert 374.066

brtvu 341.012 u vertikalnom pojasu pvc umetka 374.066
gasket 341.012 in vertical zone of pvc insert 374.066

horizontalna maska
horizontal mask
F-1393

vertikalna maska
vertical mask
F-1384

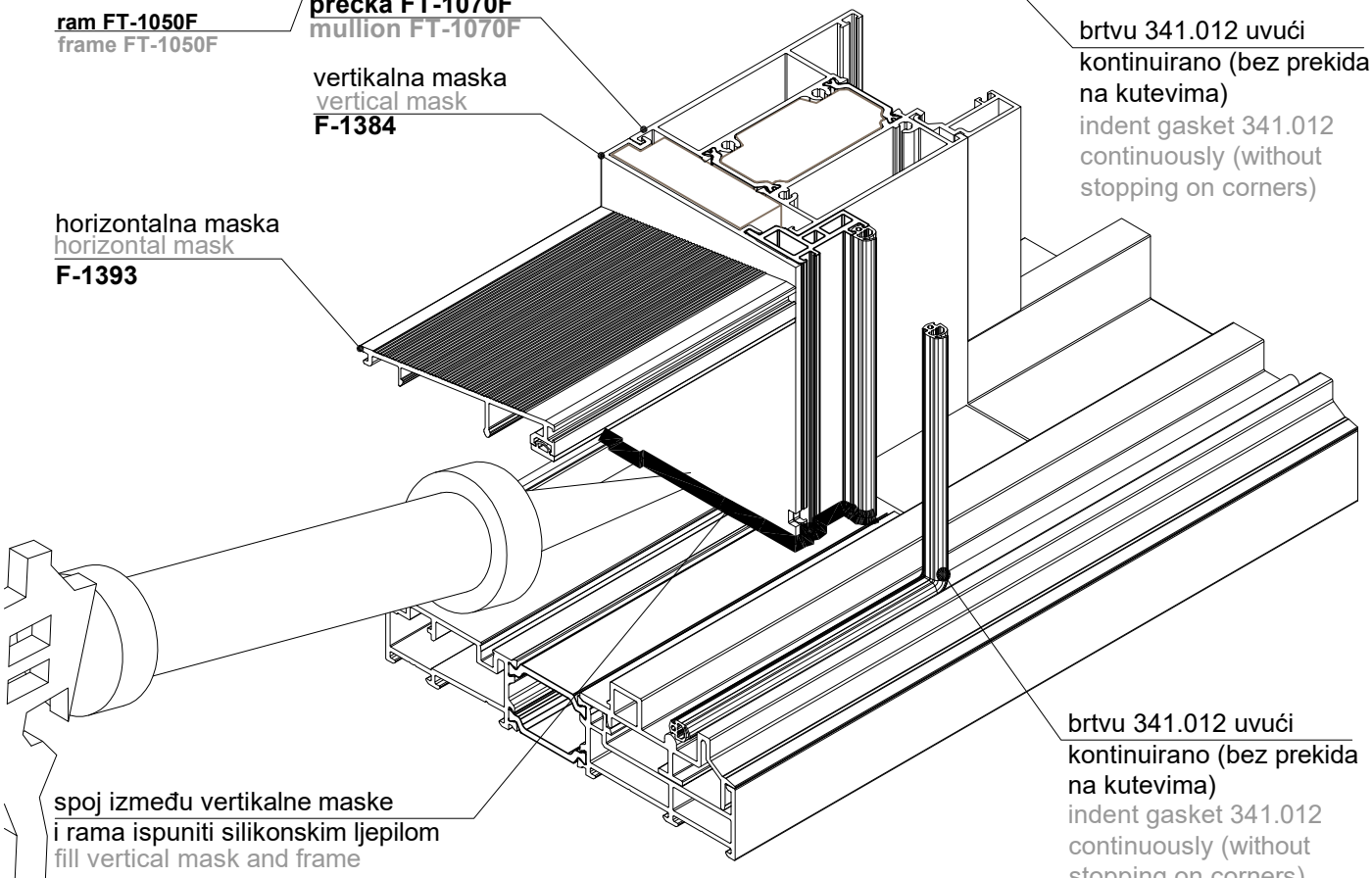
ram FT-1050F
frame FT-1050F

prečka FT-1070F
mullion FT-1070F

vertikalna maska
vertical mask
F-1384

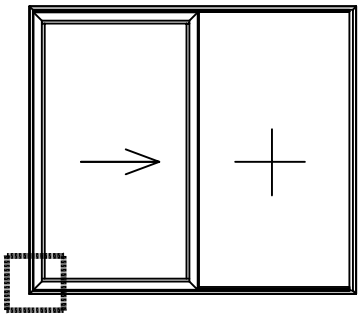
brtvu 341.012 uvući kontinuirano (bez prekida na kutevima)
indent gasket 341.012 continuously (without stopping on corners)

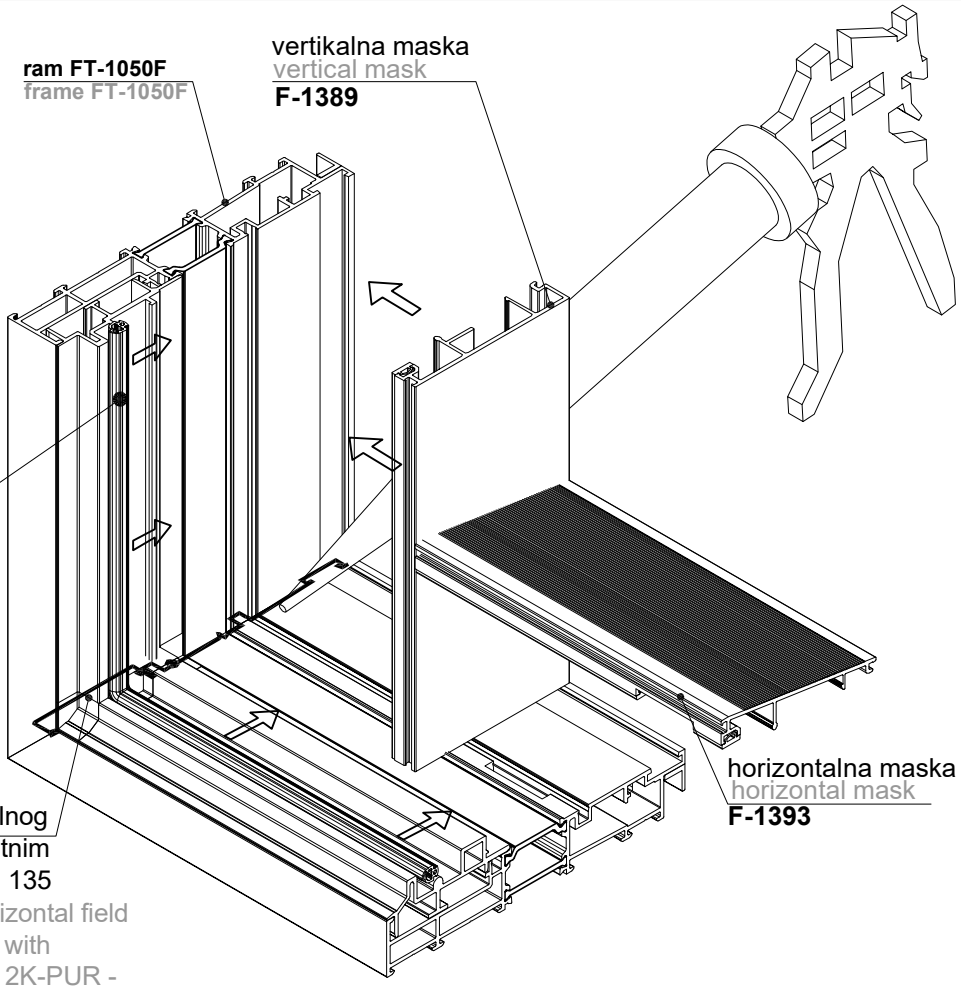
horizontalna maska
horizontal mask
F-1393

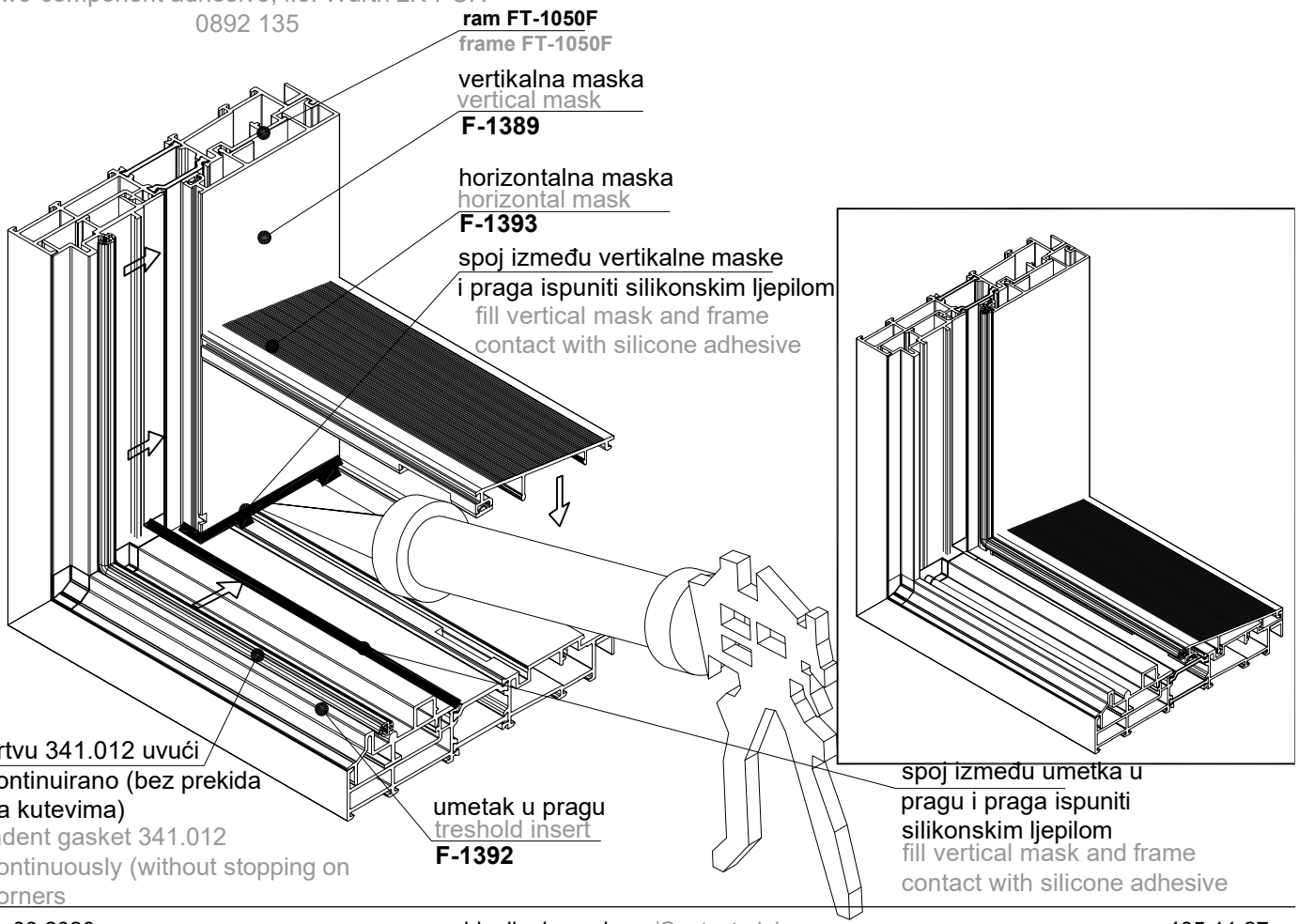


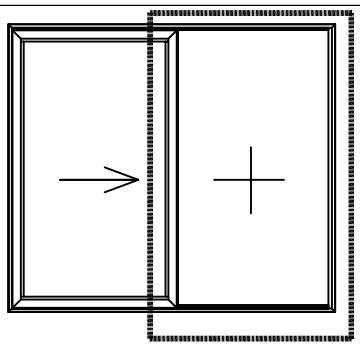
brtvu 341.012 uvući kontinuirano (bez prekida na kutevima)
indent gasket 341.012 continuously (without stopping on corners)

spoj između vertikalne maske i rama ispuniti silikonskim ljepilom
fill vertical mask and frame contact with silicone adhesive




ram FT-1050F
frame FT-1050F
vertikalna maska
vertical mask
F-1389
brtvu 341.012 uvući kontinuirano (bez prekida na kutevima)
indent gasket 341.012 continuously (without stopping on corners)
horizontalna maska
horizontal mask
F-1393
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


ram FT-1050F
frame FT-1050F
vertikalna maska
vertical mask
F-1389
horizontalna maska
horizontal mask
F-1393
spoj između vertikalne maske i praga ispuniti silikonskim ljepilom
fill vertical mask and frame contact with silicone adhesive
brtvu 341.012 uvući kontinuirano (bez prekida na kutevima)
indent gasket 341.012 continuously (without stopping on corners
umetak u pragu
treshold insert
F-1392
spoj između umetka u pragu i praga ispuniti silikonskim ljepilom
fill vertical mask and frame contact with silicone adhesive

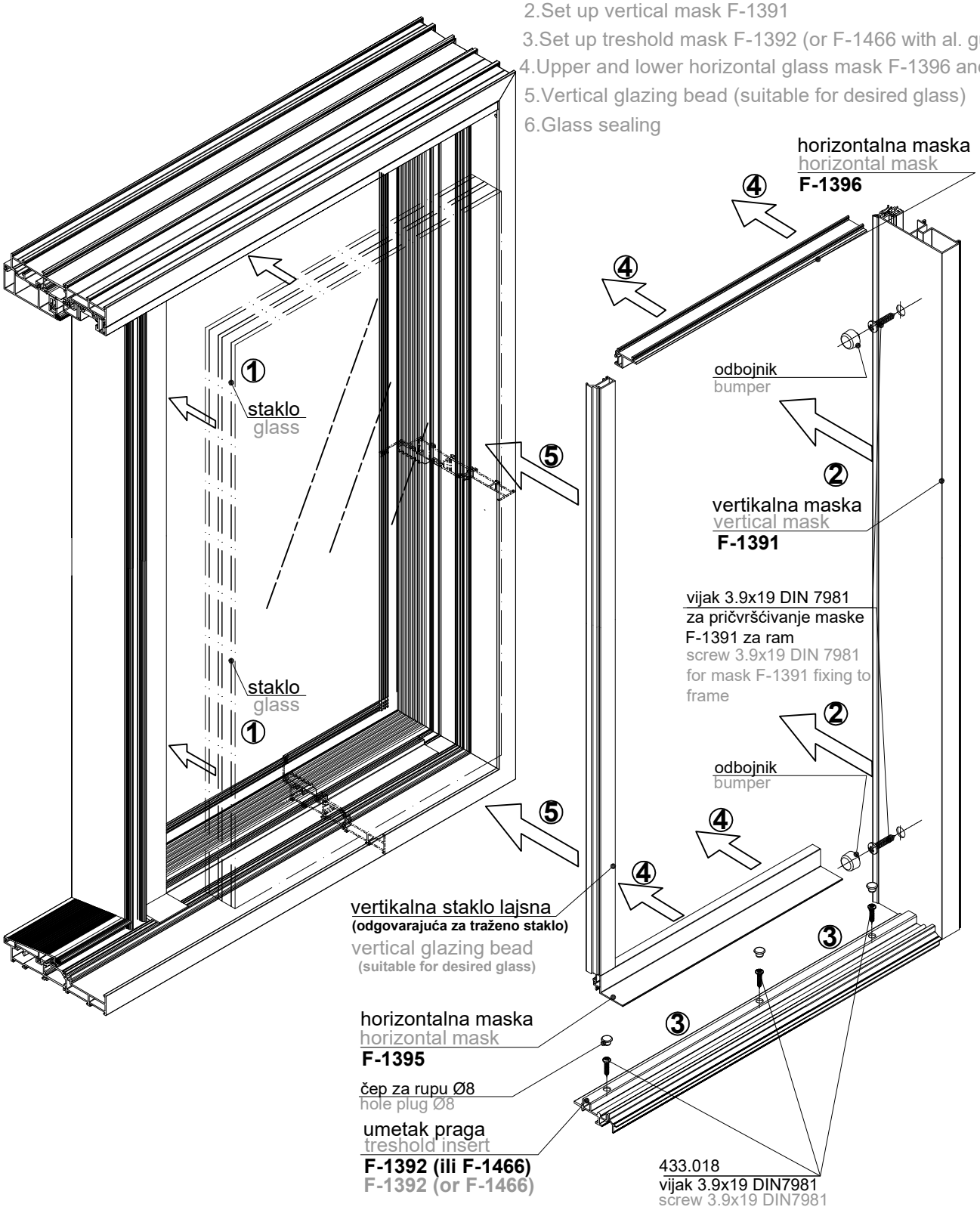


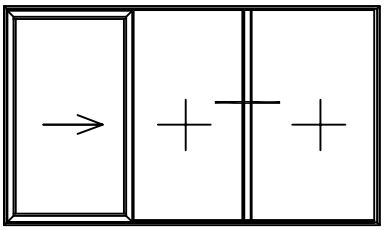
Redoslijed postavljanja profila pri stakljenju fiksnog dijela:

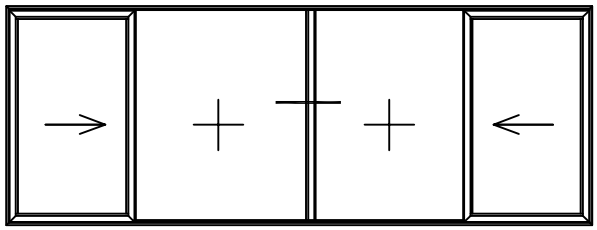
1.Postaviti staklo u fiksni dio
2.Postaviti vertikalnu masku F-1391
3.Postaviti masku praga F-1392 (ili F-1466 sa al. vodilicom)
4.Gornja i donja horizontalna staklo maska F-1396 i F-1395
5.Vertikalna staklo lajsna (odgovarajuća za traženo staklo)
6.Brtvljenje stakla

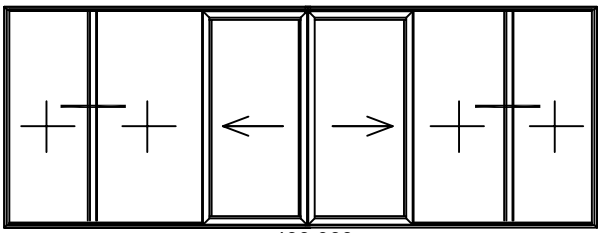
Profile installation order when glazing fixed part:

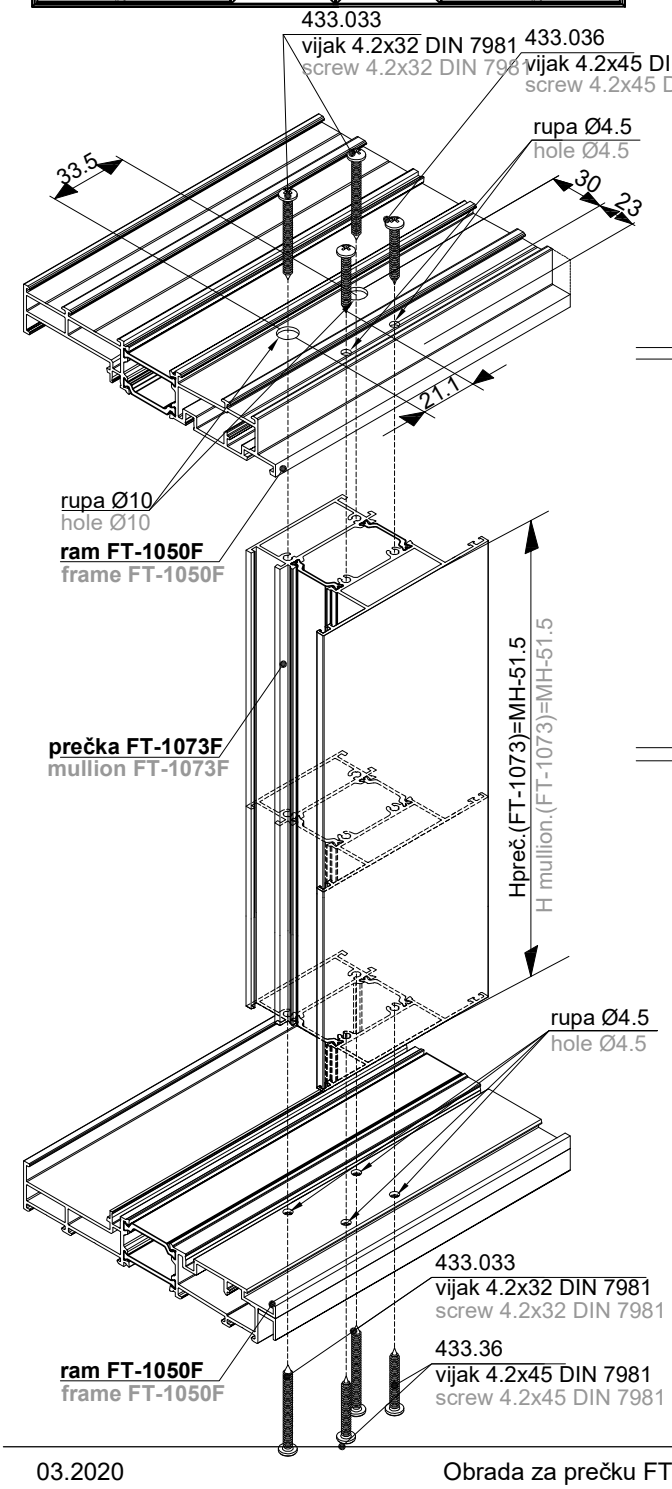
1.Set up glass in fixed part
2.Set up vertical mask F-1391
3.Set up treshold mask F-1392 (or F-1466 with al. guide)
4.Upper and lower horizontal glass mask F-1396 and F-1395
5.Vertical glazing bead (suitable for desired glass)
6.Glass sealing

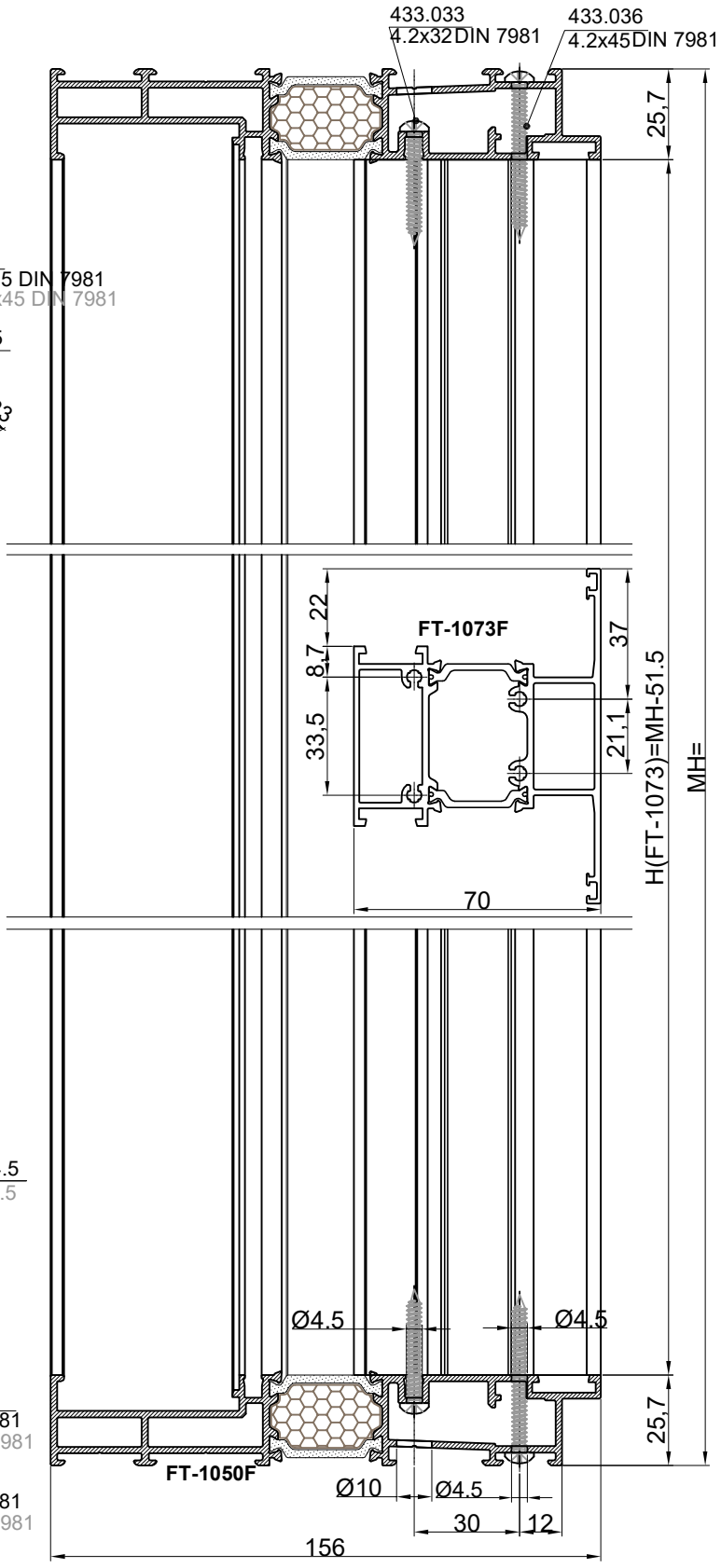


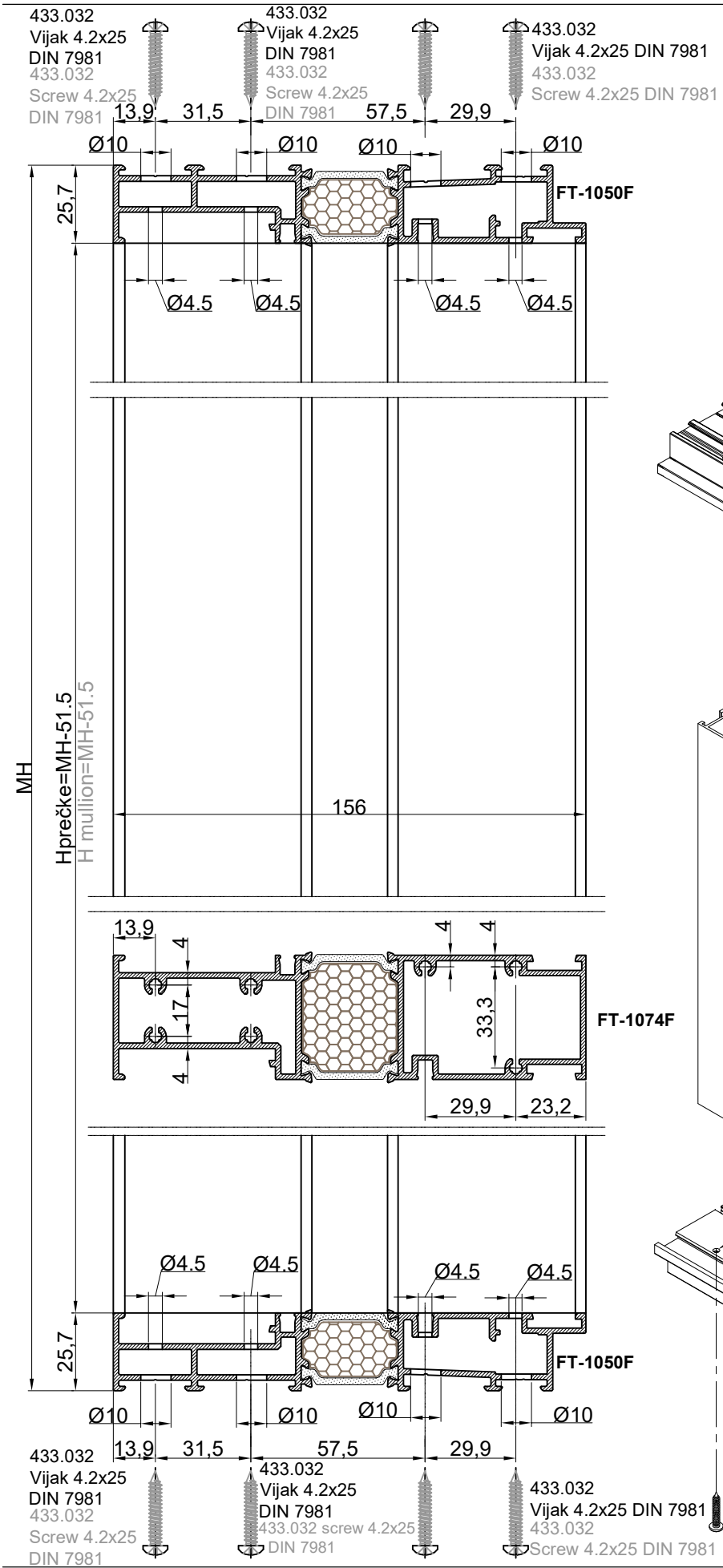


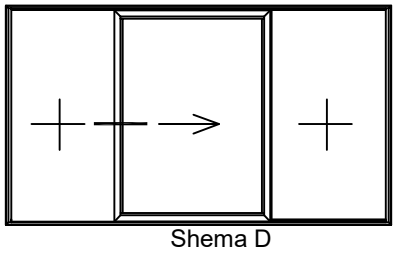


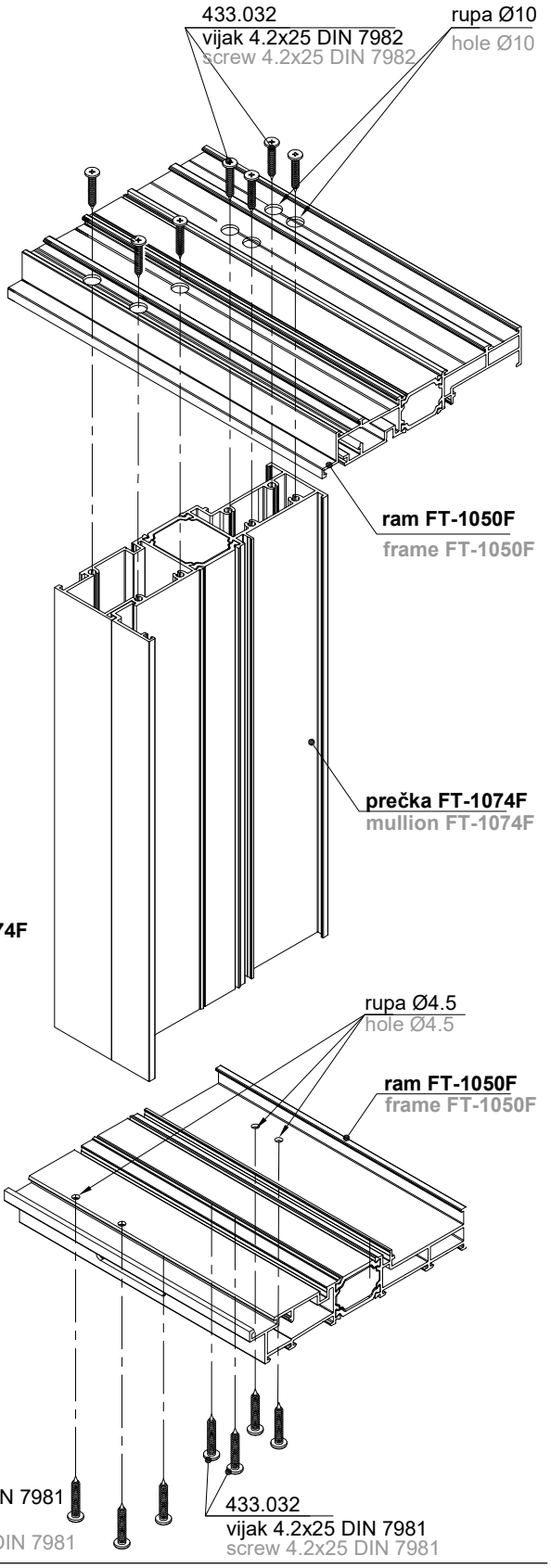


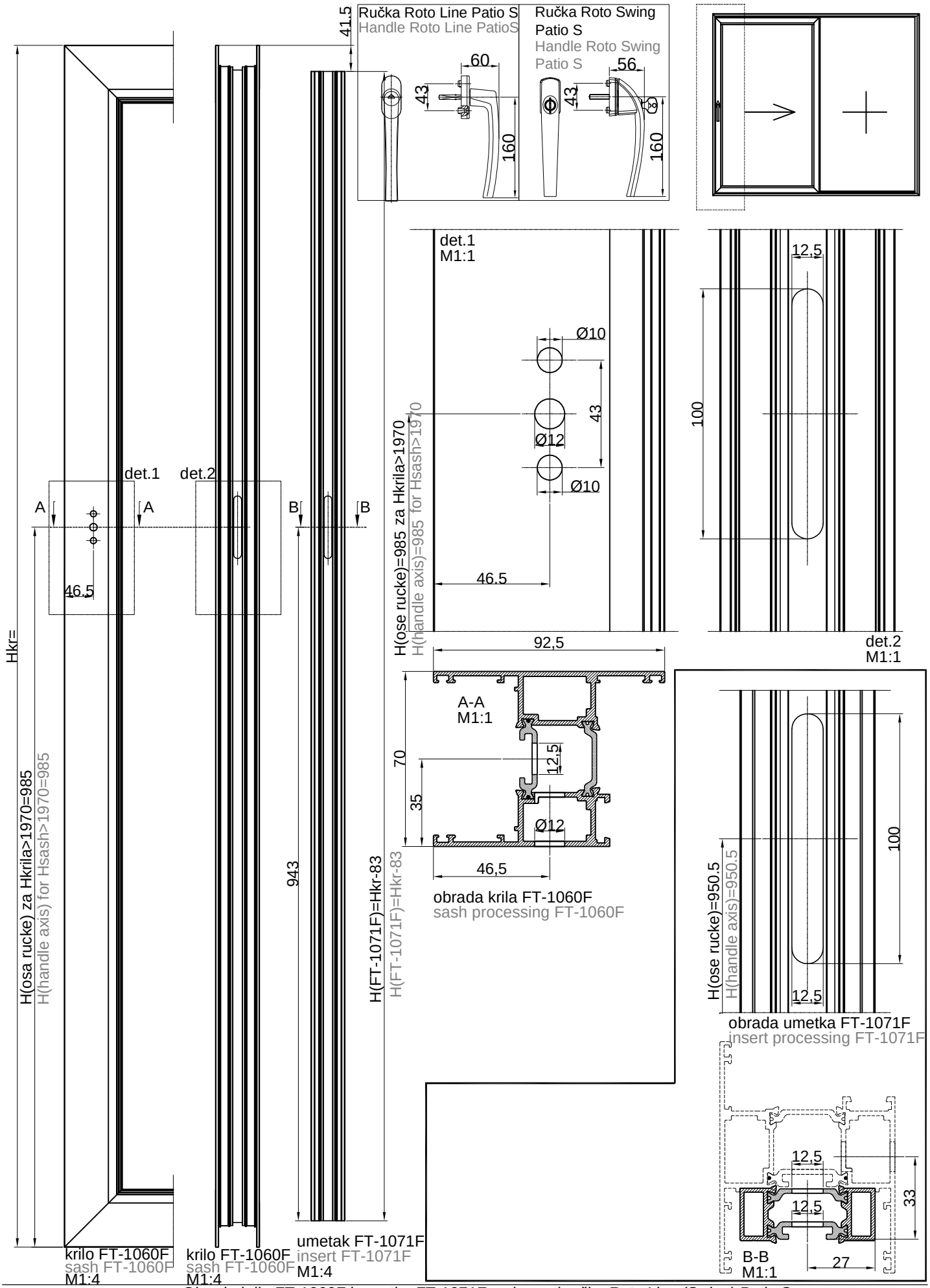

433.033
vijak 4.2x32 DIN 7981
screw 4.2x32 DIN 7981
433.036
vijak 4.2x45 DIN 7981
screw 4.2x45 DIN 7981
rupa Ø4.5
hole Ø4.5
33.5
30
23
27.1
rupa Ø10
hole Ø10
ram FT-1050F
frame FT-1050F
prečka FT-1073F
mullion FT-1073F
Hpreč.(FT-1073)=MH-51.5
H mullion.(FT-1073)=MH-51.5
rupa Ø4.5
hole Ø4.5
433.033
vijak 4.2x32 DIN 7981
screw 4.2x32 DIN 7981
433.36
vijak 4.2x45 DIN 7981
screw 4.2x45 DIN 7981
ram FT-1050F
frame FT-1050F

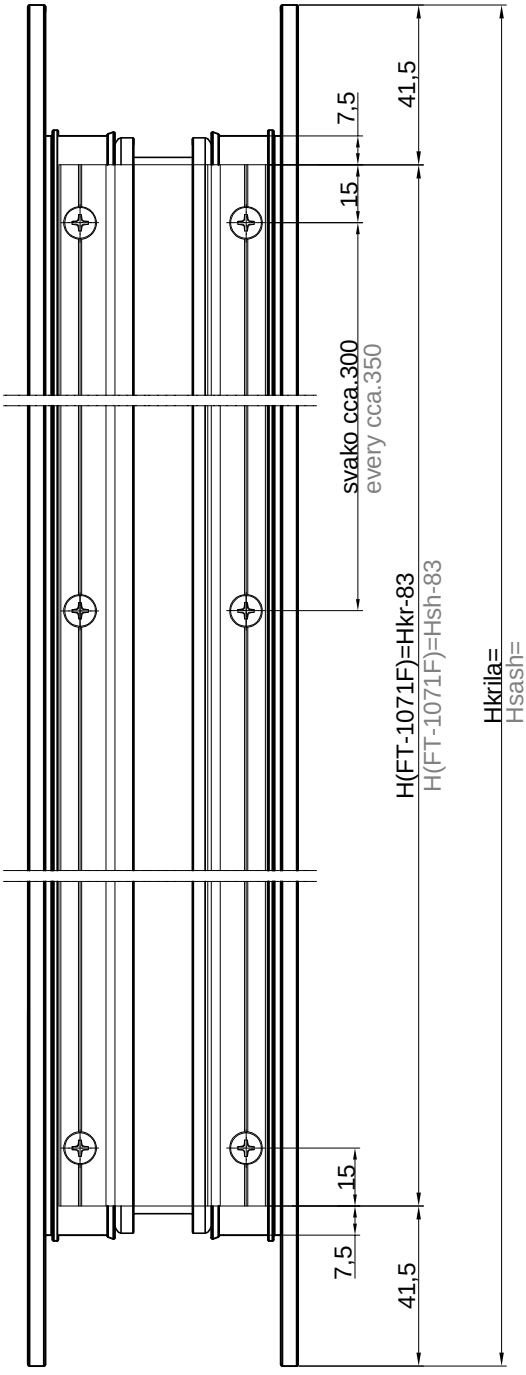

433.033
4.2x32DIN 7981
433.036
4.2x45DIN 7981
25,7
FT-1073F
22
8,7
33,5
37
21,1
70
H(FT-1073)=MH-51.5
MH=
Ø4.5
Ø4.5
25,7
FT-1050F
Ø10
Ø4.5
30
12
156

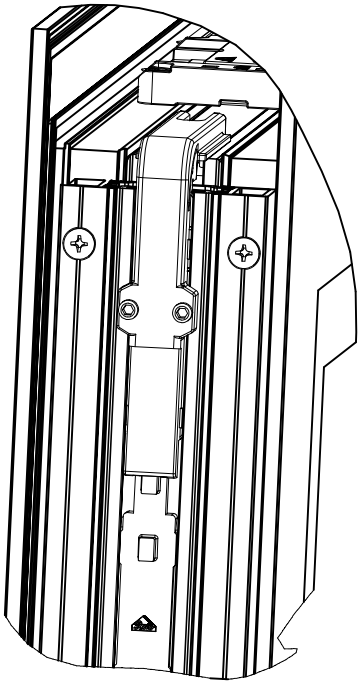

433.032
Vijak 4.2x25
DIN 7981
433.032
Screw 4.2x25
DIN 7981
433.032
Vijak 4.2x25
DIN 7981
433.032
Screw 4.2x25
DIN 7981
433.032
Vijak 4.2x25 DIN 7981
433.032
Screw 4.2x25 DIN 7981
13,9
31,5
57,5
29,9
Ø10
Ø10
Ø10
Ø10
FT-1050F
25,7
Ø4.5
Ø4.5
Ø4.5
Ø4.5
MH
Hprečke=MH-51.5
H mullion=MH-51.5
156
13,9
4
4
4
17
4
33,3
FT-1074F
29,9
23,2
Ø4.5
Ø4.5
Ø4.5
Ø4.5
25,7
FT-1050F
Ø10
Ø10
Ø10
Ø10
13,9
31,5
57,5
29,9
433.032
Vijak 4.2x25
DIN 7981
433.032
Screw 4.2x25
DIN 7981
433.032
Vijak 4.2x25
DIN 7981
433.032 screw 4.2x25
DIN 7981
433.032
Vijak 4.2x25 DIN 7981
433.032
Screw 4.2x25 DIN 7981

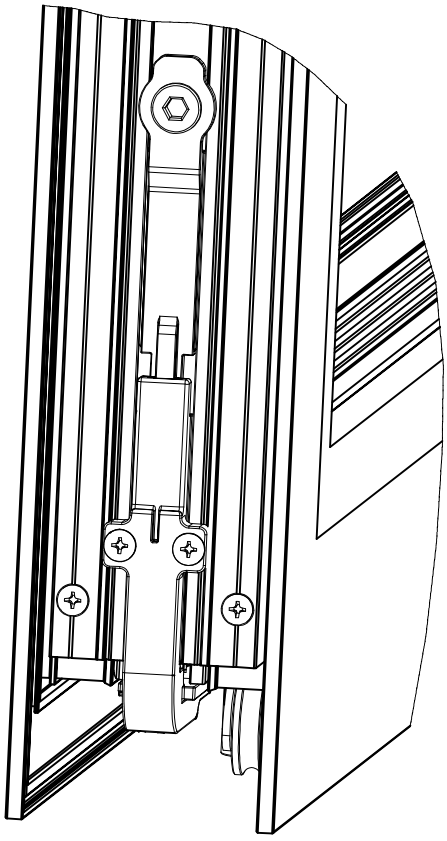

Shema D

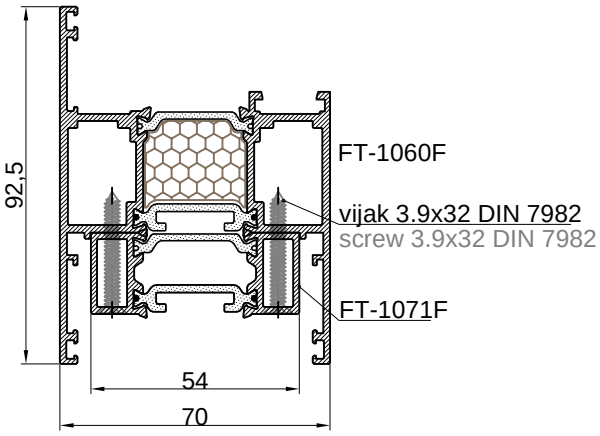

433.032
vijak 4.2x25 DIN 7982
screw 4.2x25 DIN 7982
rupa Ø10
hole Ø10
ram FT-1050F
frame FT-1050F
prečka FT-1074F
mullion FT-1074F
rupa Ø4.5
hole Ø4.5
ram FT-1050F
frame FT-1050F
433.032
vijak 4.2x25 DIN 7981
screw 4.2x25 DIN 7981

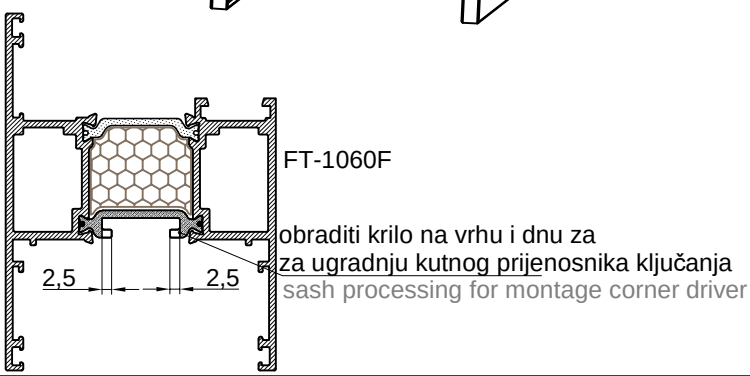

Ručka Roto Line Patio S
Handle Roto Line PatioS
Ručka Roto Swing Patio S
Handle Roto Swing Patio S
41.5
60
43
160
56
det.1
det.2
A
B
46.5
Hkr=
H(osa rucke) za Hkrila>1970=985
H(handle axis) for Hsash>1970=985
943
H(FT-1071F)=Hkr-83
H(FT-1071F)=Hkr-83
det.1
M1:1
Ø10
Ø12
H(ose rucke)=985 za Hkrila>1970
H(handle axis)=985 for Hsash>1970
92,5
A-A
M1:1
70
35
12,5
obrada krila FT-1060F
sash processing FT-1060F
12,5
100
det.2
M1:1
H(ose rucke)=950.5
H(handle axis)=950.5
obrada umetka FT-1071F
insert processing FT-1071F
B-B
M1:1
27
33
krilo FT-1060F
sash FT-1060F
M1:4
umetak FT-1071F
insert FT-1071F
M1:4

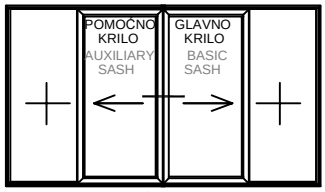

41,5
7,5
15
svako cca.300
every cca.350
H(FT-1071F)=Hkr-83
H(FT-1071F)=Hsh-83
Hkrila=
Hsash=
15
7,5
41,5



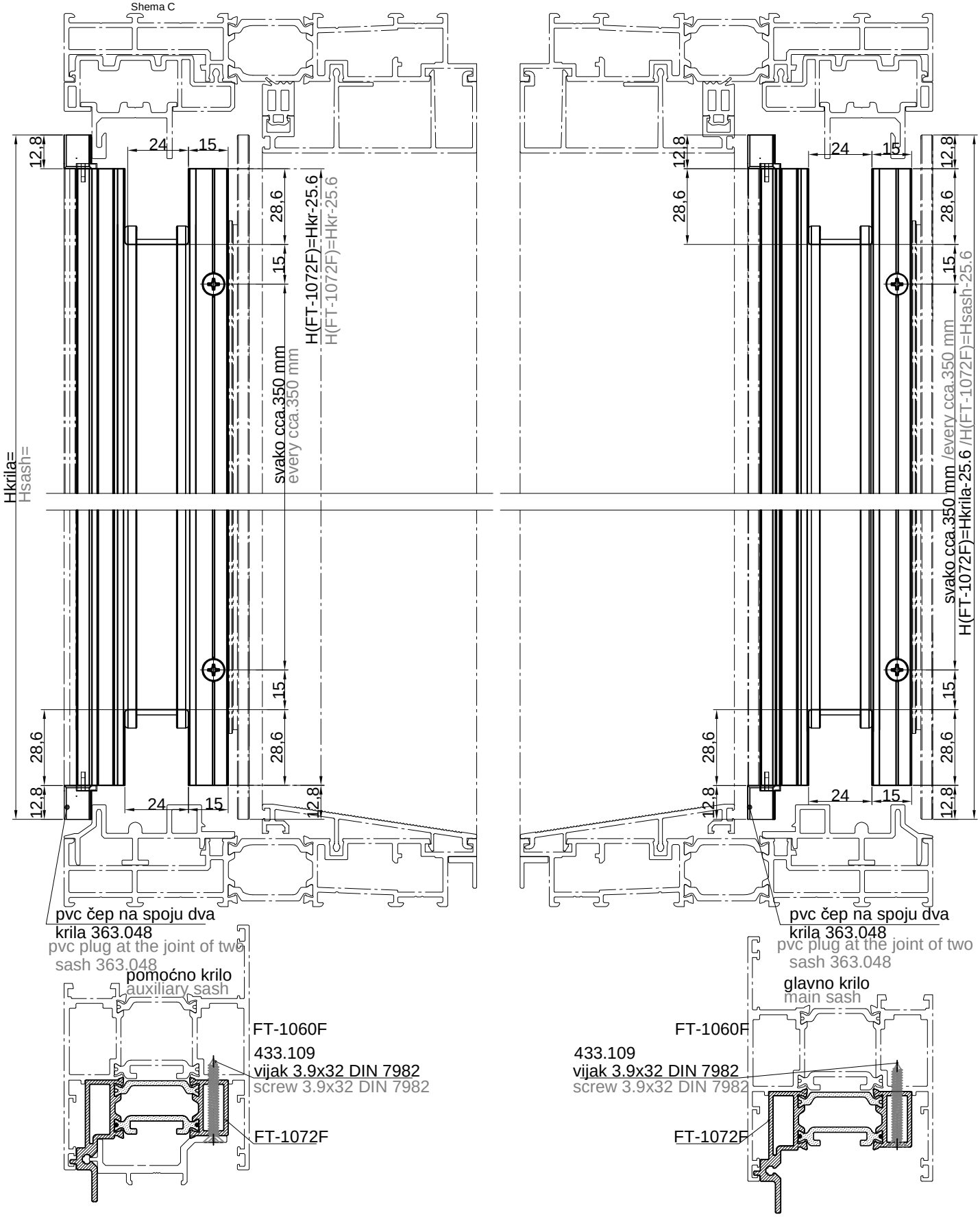



92,5
FT-1060F
vijak 3.9x32 DIN 7982
screw 3.9x32 DIN 7982
FT-1071F
54
70


FT-1060F
obraditi krilo na vrhu i dnu za
za ugradnju kutnog prijenosnika ključanja
sash processing for montage corner driver
2,5
2,5



Shema C



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

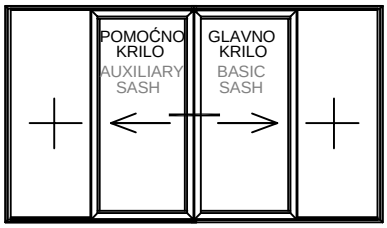
pomoćno krilo
auxiliary sash

FT-1060F
433.109
vijak 3.9x32 DIN 7982
screw 3.9x32 DIN 7982
FT-1072F

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

glavno krilo
main sash

FT-1060F
433.109
vijak 3.9x32 DIN 7982
screw 3.9x32 DIN 7982
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

krilo FT-1060F
sash FT-1060F

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

12.8
24
15
28.6
12.8

H(FT-1072F)=Hkrila-25.6(POMOĆNO KRILO)
H(FT-1072F)=Hsash-25.6(AUXILIARY SASH)

H(FT-1072F)=Hkrila-25.6(GLAVNO KRILO)
H(FT-1072F)=Hsash-25.6 (MAIN SASH)

Hkrila
Hsash

12.8

433.109
vijak 3.9x32 DIN 7982
screw 3.9x32 DIN 7982

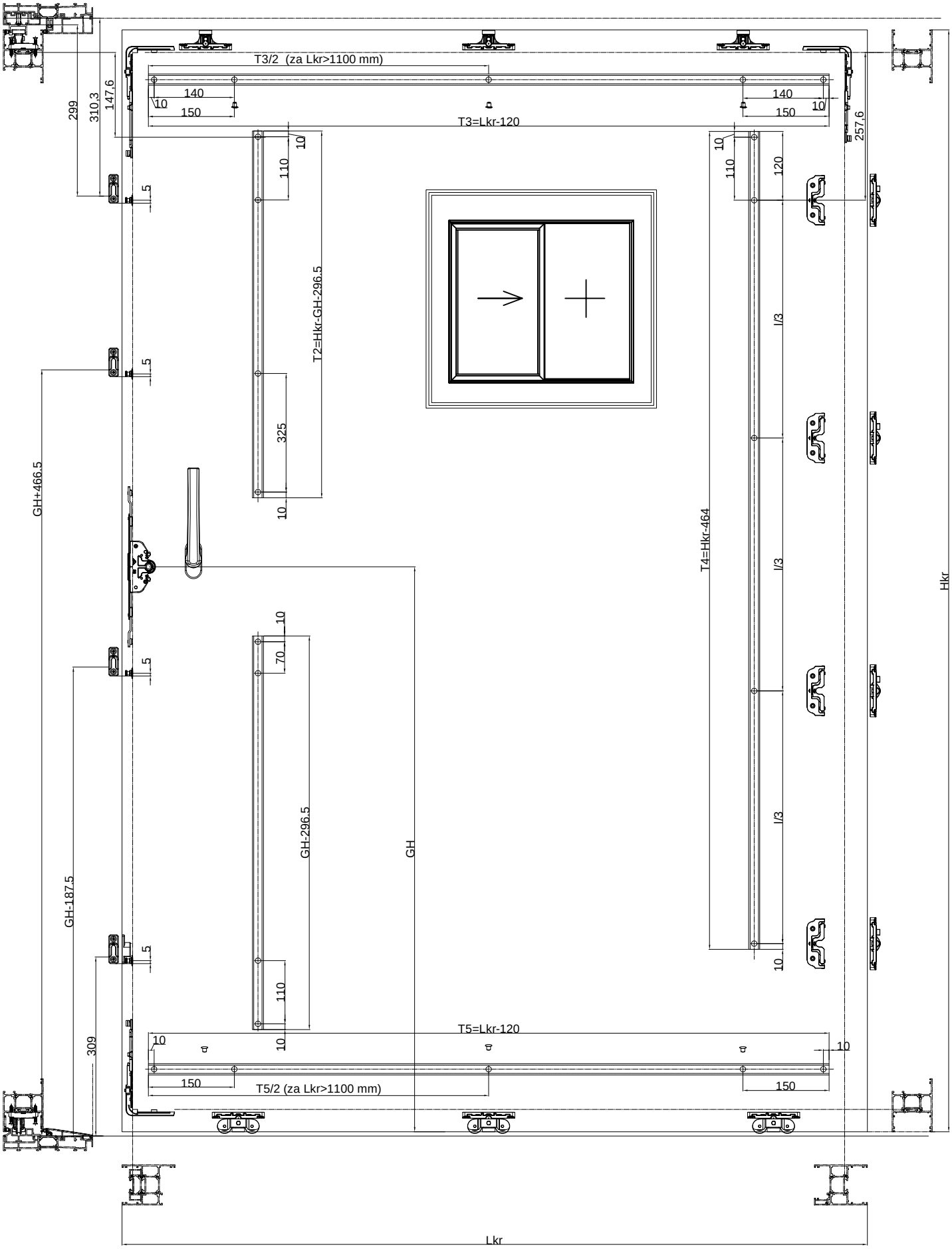
pvc čep na spoju dva krila 363.048
pvc plug at the joint of two sash 363.048

vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982

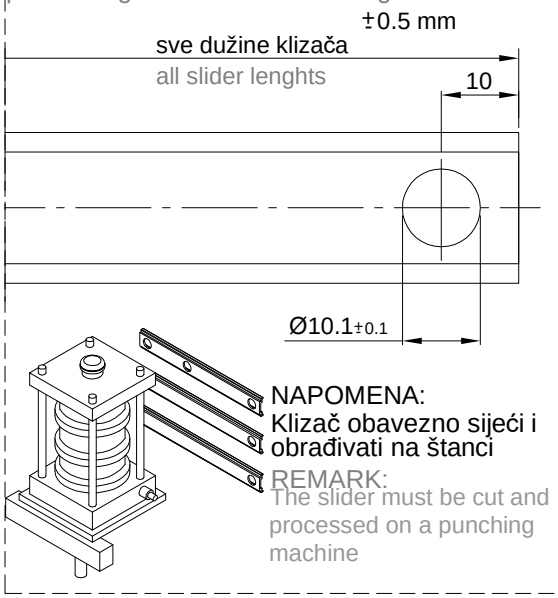
12.8

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

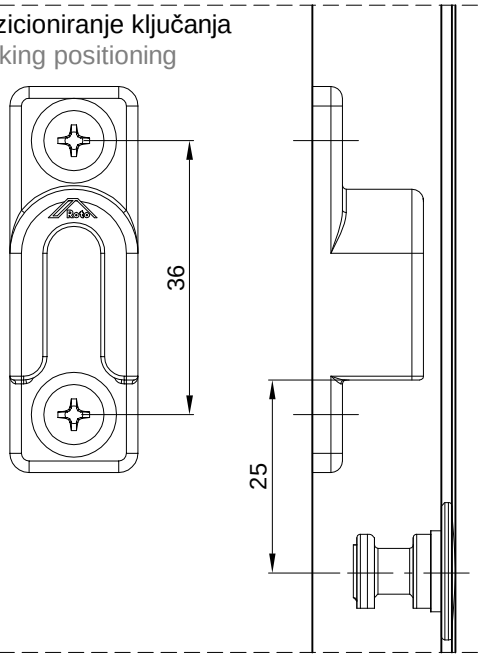

T3/2 (za Lkr>1100 mm)
T3=Lkr-120
T2=Hkr-GH-296.5
T4=Hkr-464
T5=Lkr-120
T5/2 (za Lkr>1100 mm)
GH+466.5
GH-187.5
GH-296.5
GH
Hkr
Lkr
299
310.3
147.6
257.6
309
140
150
10
110
120
325
70
5
l/3

obrada klizača za prijenos ključanja
processing slider used for locking transmission

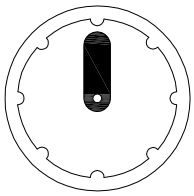


NAPOMENA:
Klizač obavezno sijeći i obrađivati na štanci
REMARK:
The slider must be cut and processed on a punching machine

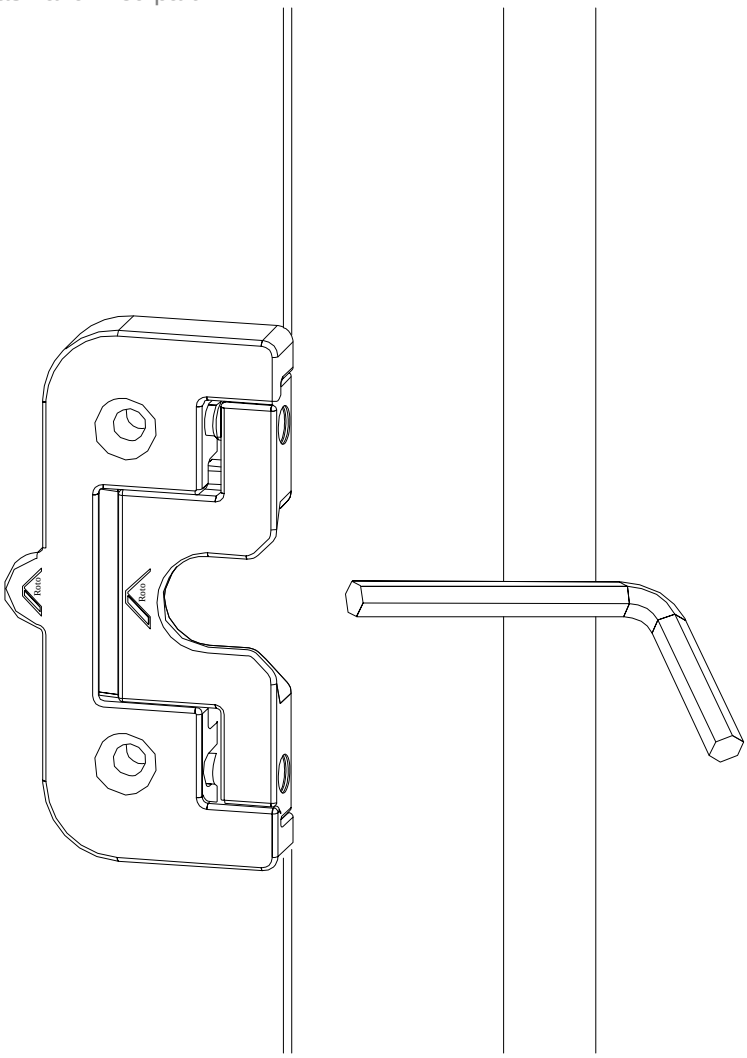
pozicioniranje ključanja
locking positioning



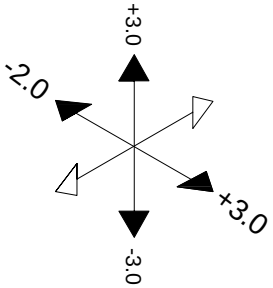
podešavanje ključanja na spoju krila i fiksnog
locking adjustment at the joint of sash and fixed part

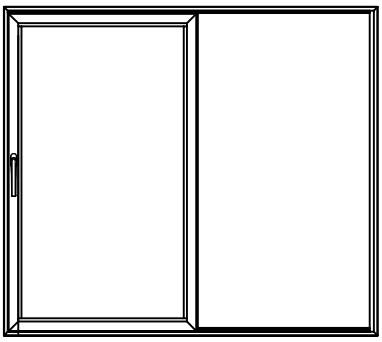


položaj ručke-otvoreno
handle position-open



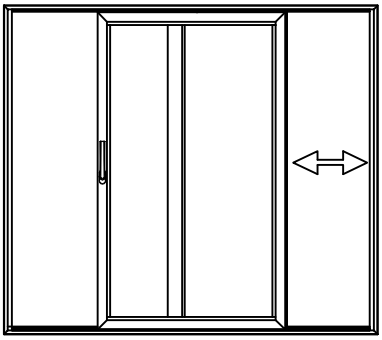
mogućnost podešavanja
possibility of adjustment

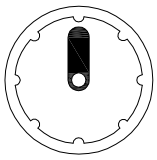




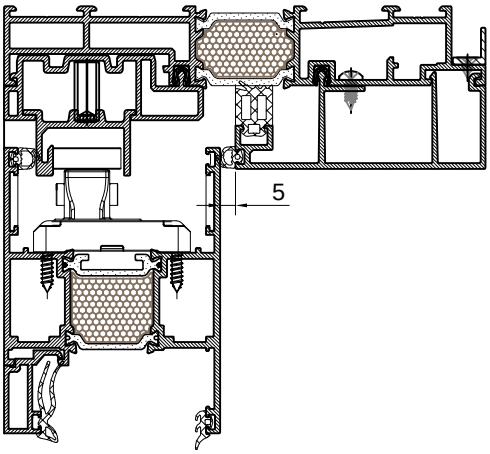


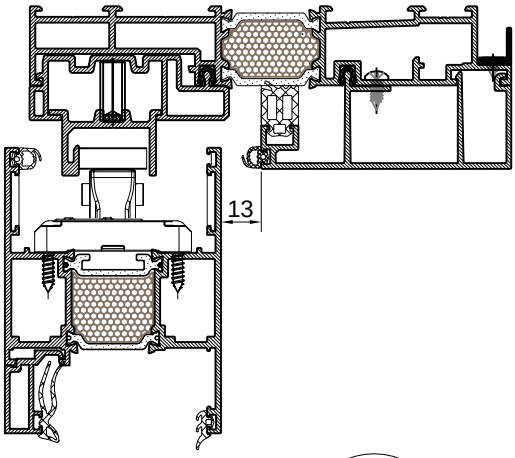
položaj ručke kad je krilo zatvoreno
handle position when the sash is closed



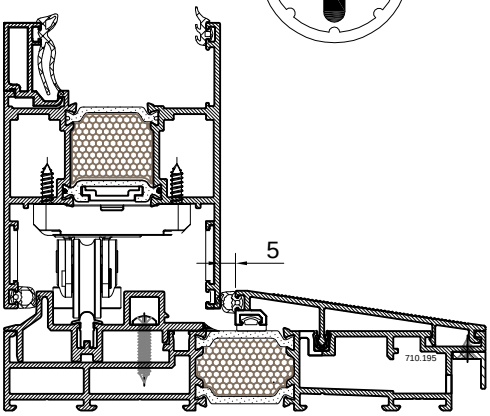


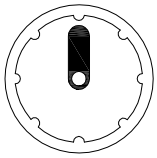
položaj ručke kad krilo kliza
handle position when sash slides

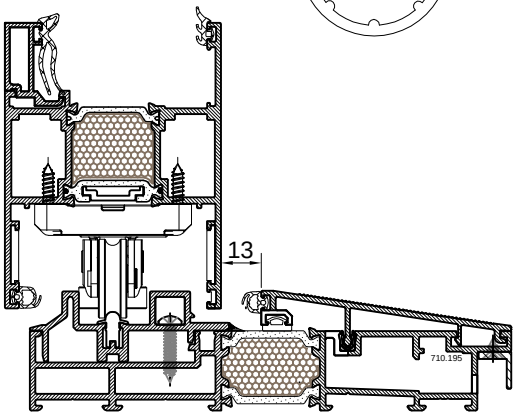




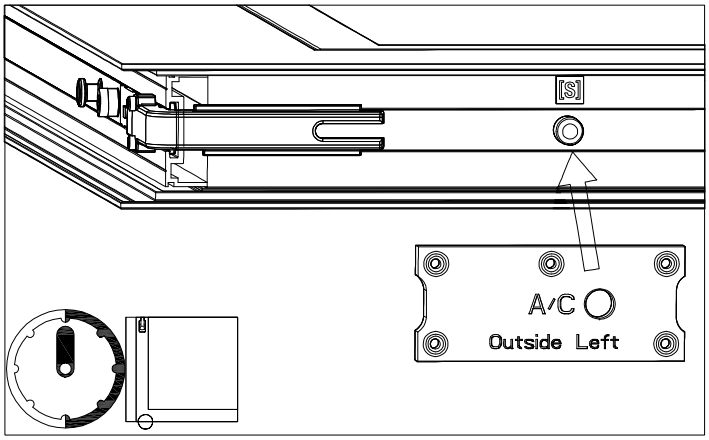






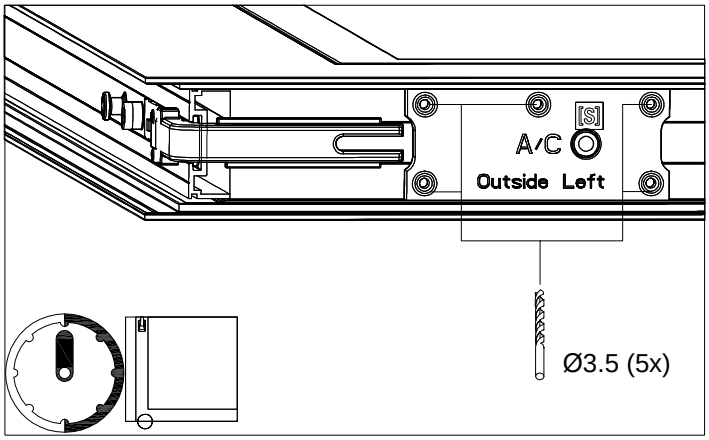


Šablon za ugradnju kotačića i usmjerivača na krilo
Bogies and thrusting device installation to sash pattern

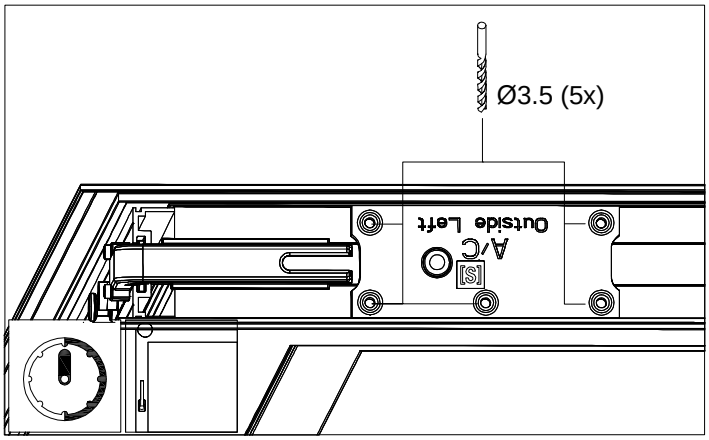


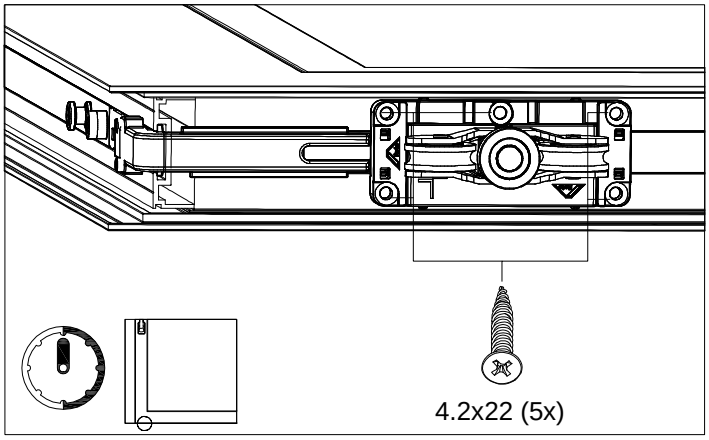
položaj ručke
handle position

1. Pozicioniranje šablona
1. Setting drilling template



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

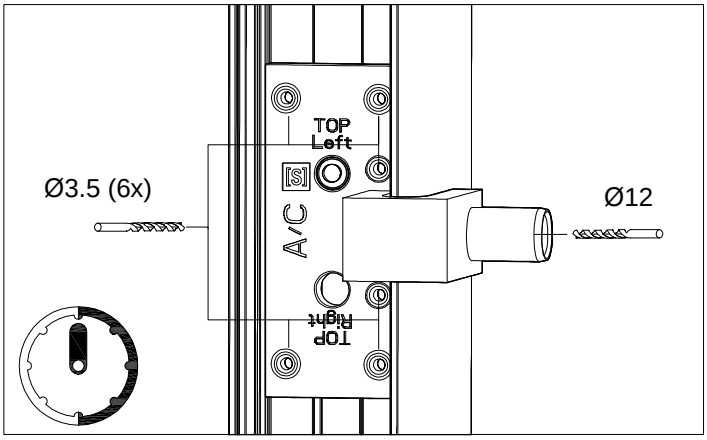




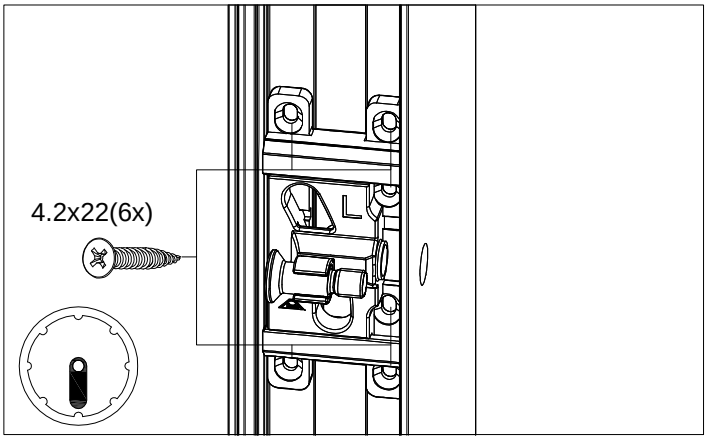
3. Postavljanje kotačića
3. Bogies installation

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

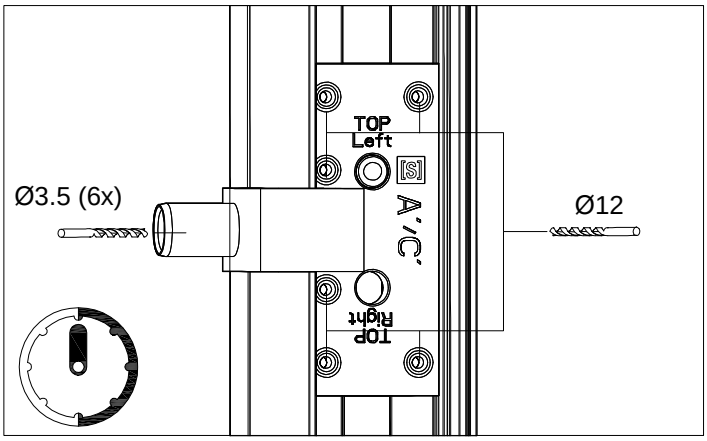
položaj ručke
handle position



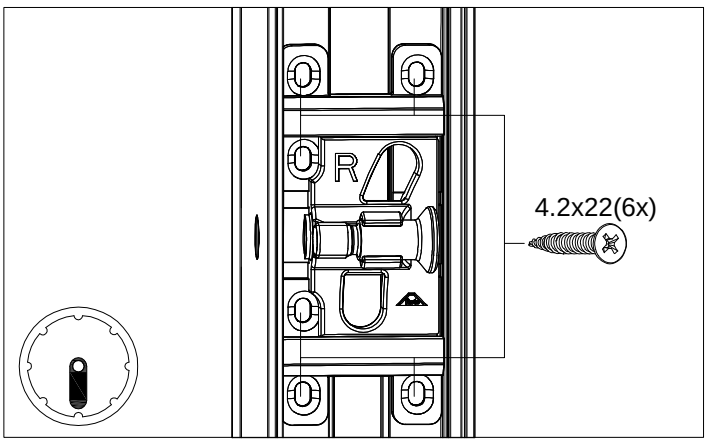
1. Pozicioniranje šablona (Lijeva vrata)
bušenje 6 rupa Ø3.5 mm
1. Setting drilling template (Left door)
drilling 6 holes Ø3.5 mm



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

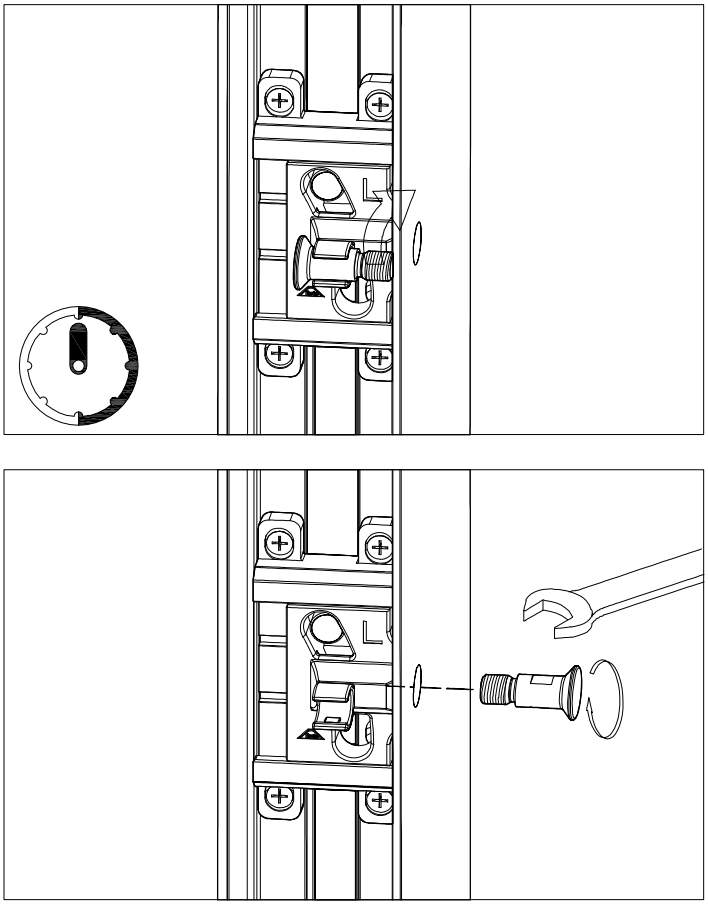


1. Pozicioniranje šablona (Desna vrata)
bušenje 6 rupa Ø3.5 mm
1. Setting drilling template (Right door)
drilling 6 holes Ø3.5 mm

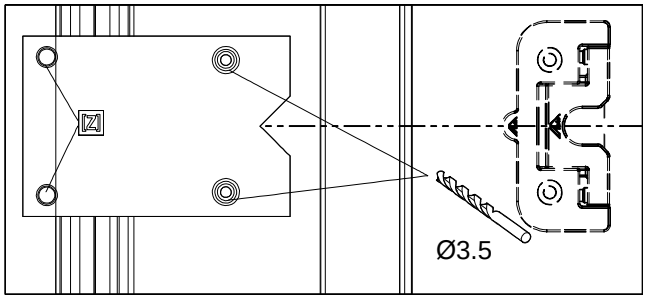


2. Postavljanje ključanja (Desna vrata)
2. Locking setup (Right door)

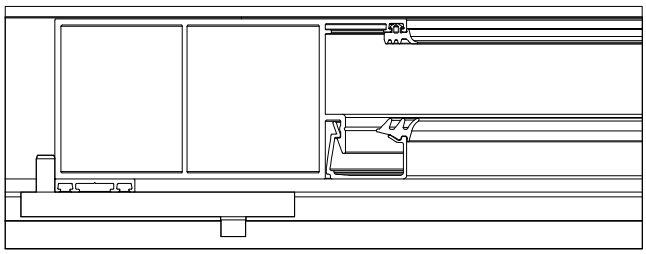
Ugradnja bravice za srednje ključanje
Espagnolette installation for central locking

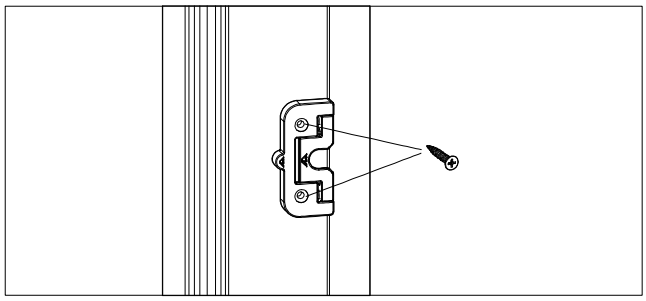


Šablon za srednje ključanje na spoju krila i prečke-ugradnja na prečku
Drilling template for central locking on the join sash and mullion-installation on mullion

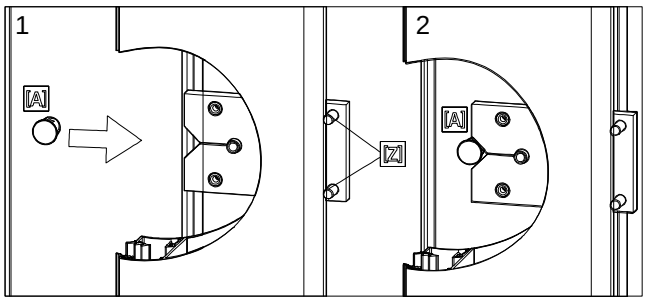


1. Pozicioniranje šablona bušenje 2 rupa Ø3.5 mm
1. Setting drilling template drilling 2 holes Ø3.5 mm

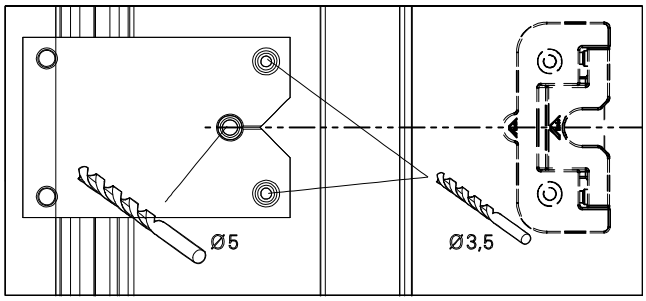




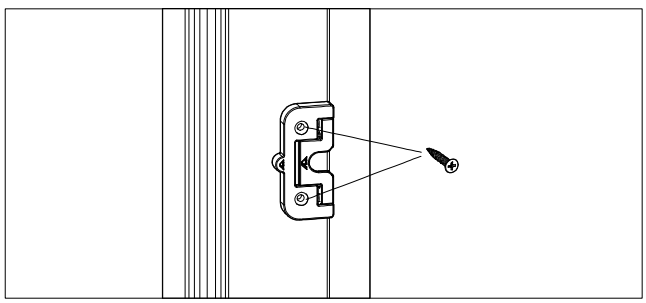
2. Ugradnja ključanja na prečku
2. Locking installation on mullion



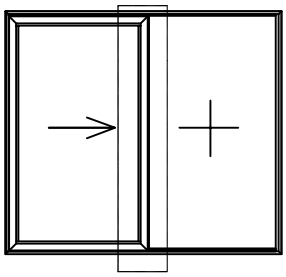
1. Pozicioniranje šablona bušenje 2 rupa Ø3.5 mm
1. Setting drilling template drilling 2 holes Ø3.5 mm



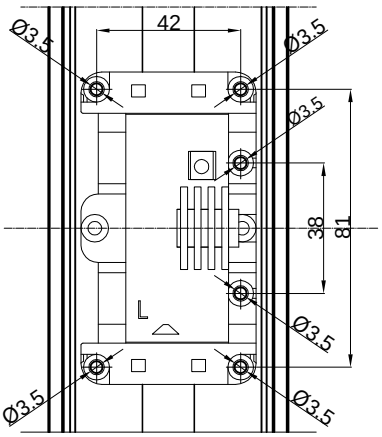
2. Bušenje 2 rupe Ø3.5 mm
2. Drilling 2 holes Ø3.5 mm

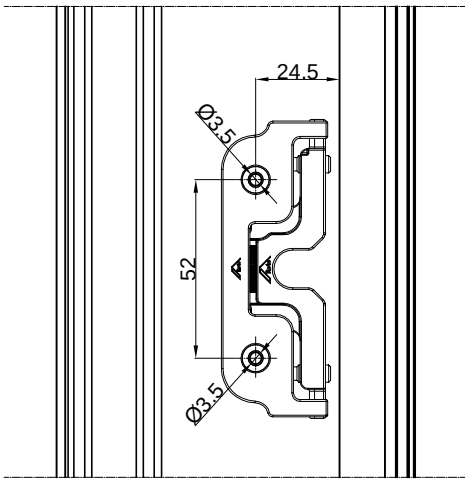


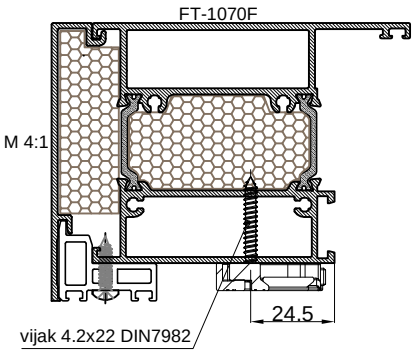
3. Ugradnja ključanja na prečku
3. Locking installation on window mullion



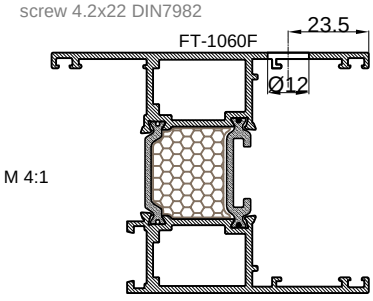
6xvijak 4.2x22 DIN7982
6xscrew 4.2x22 DIN7982

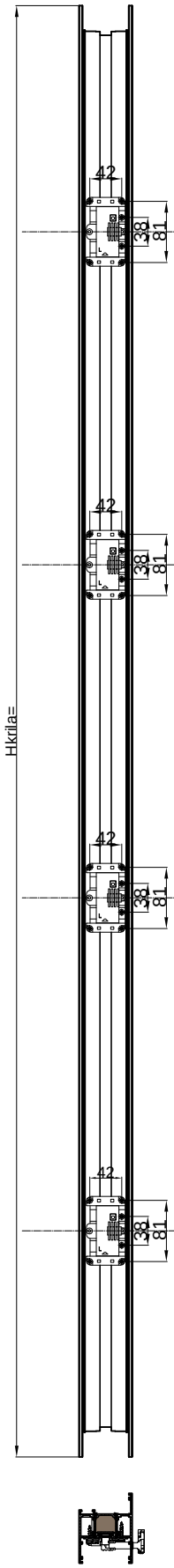


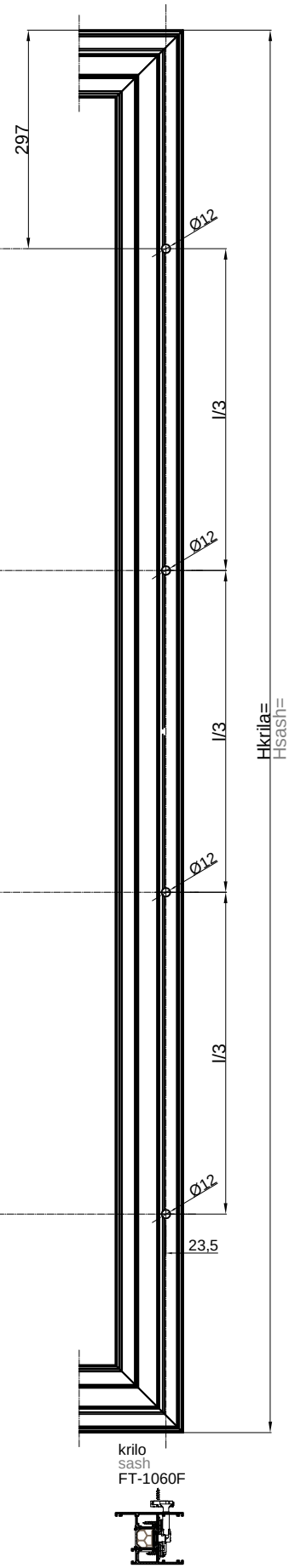


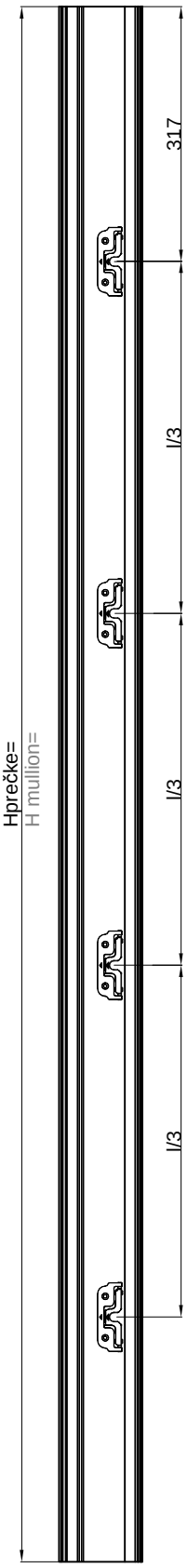


vijak 4.2x22 DIN7982
screw 4.2x22 DIN7982



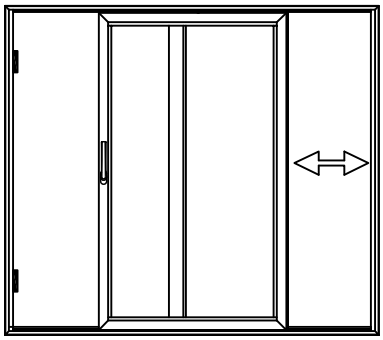


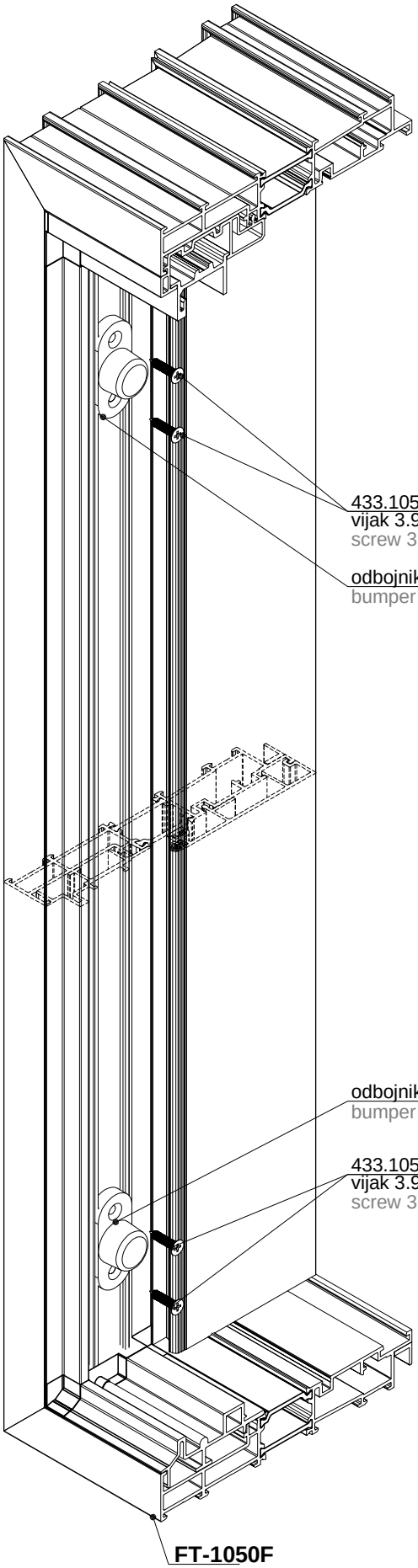




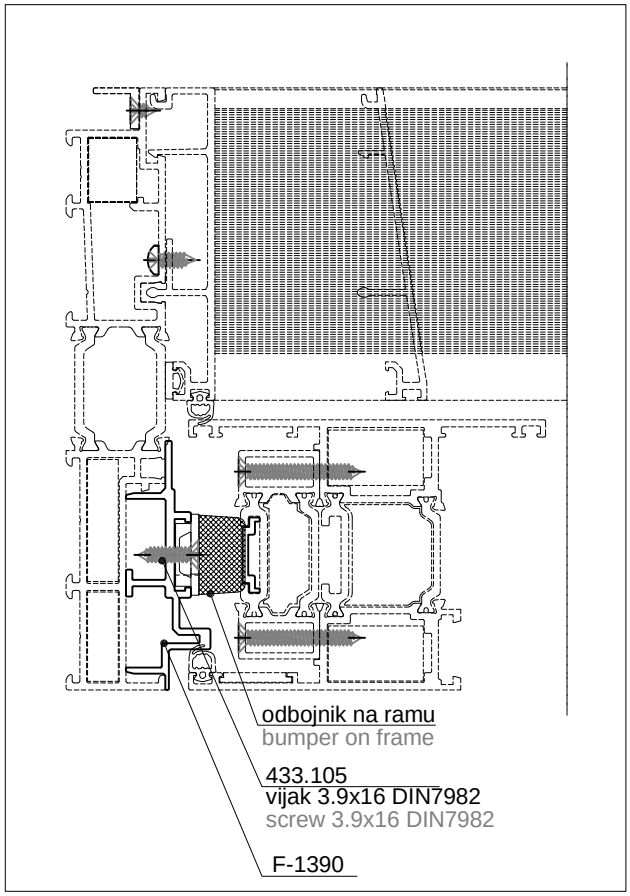
krilo
sash
FT-1060F

prečka
mullion
FT-1070F

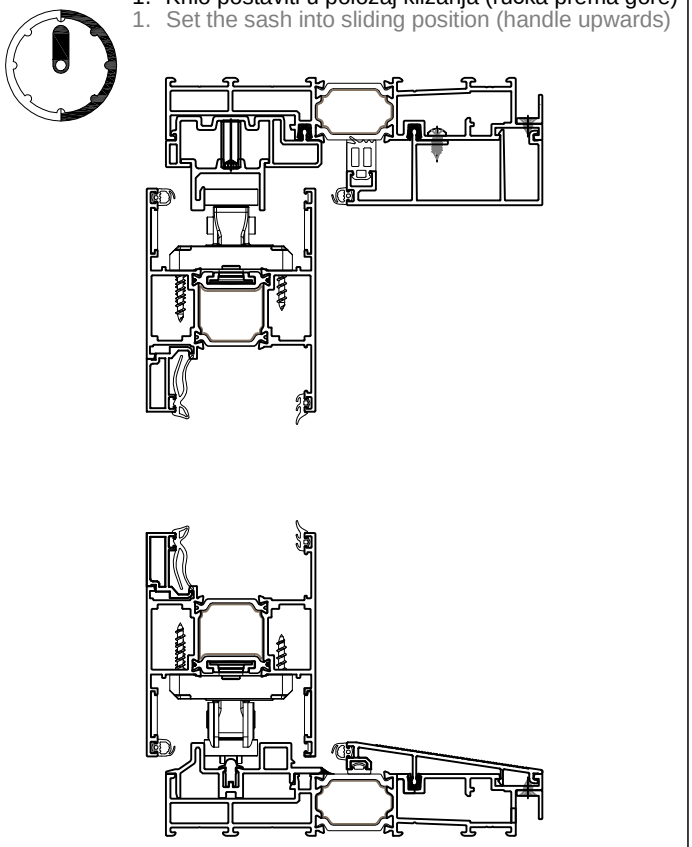



433.105
vijak 3.9x16 DIN7982
screw 3.9x16 DIN7982
odbojnik na ramu
bumper on frame
odbojnik na ramu
bumper on frame
433.105
vijak 3.9x16 DIN7982
screw 3.9x16 DIN7982

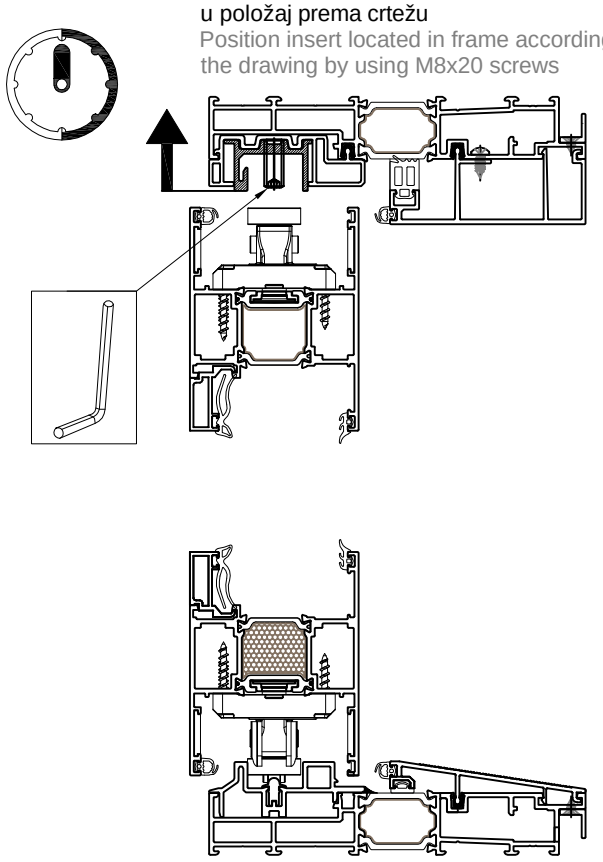
FT-1050F


odbojnik na ramu
bumper on frame
433.105
vijak 3.9x16 DIN7982
screw 3.9x16 DIN7982
F-1390

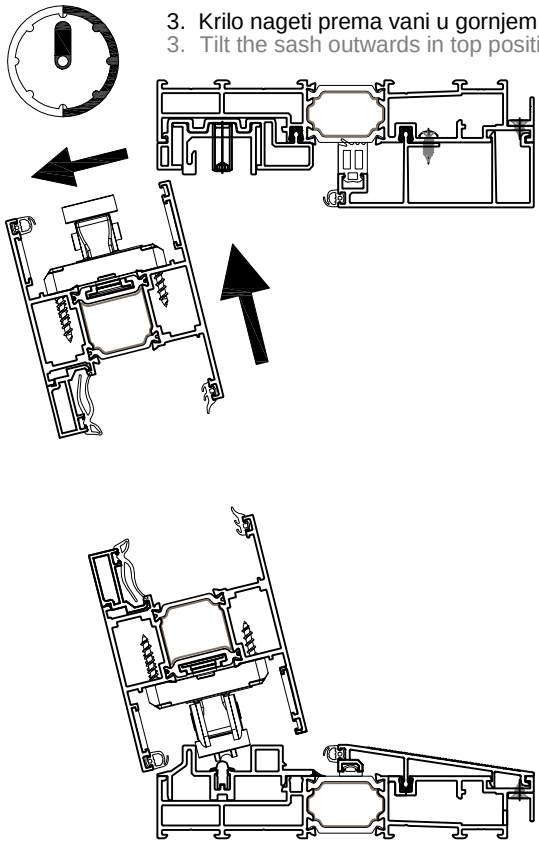
1. Krilo postaviti u položaj klizanja (ručka prema gore)
1. Set the sash into sliding position (handle upwards)



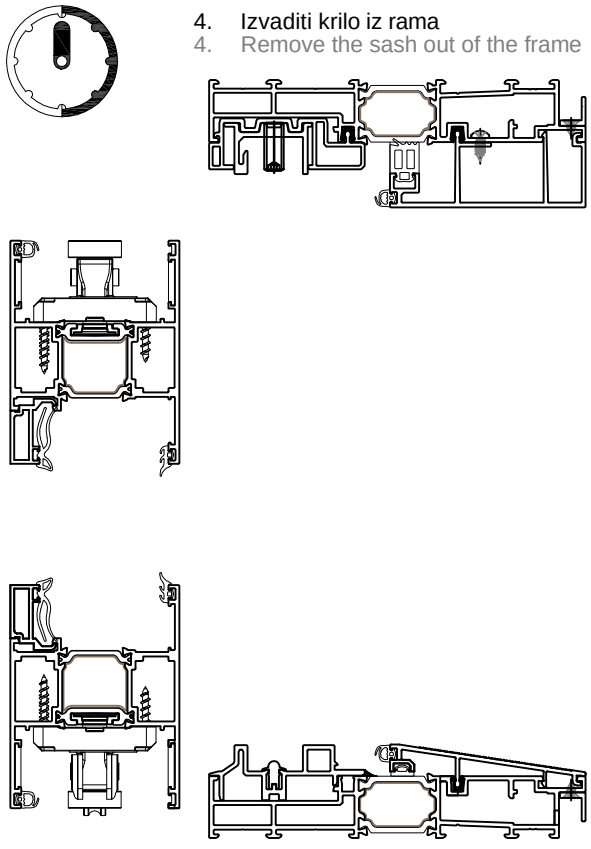
2. Umetak u ramu pomoću vijaka M8x20 dovesti u položaj prema crtežu
Position insert located in frame according to the drawing by using M8x20 screws

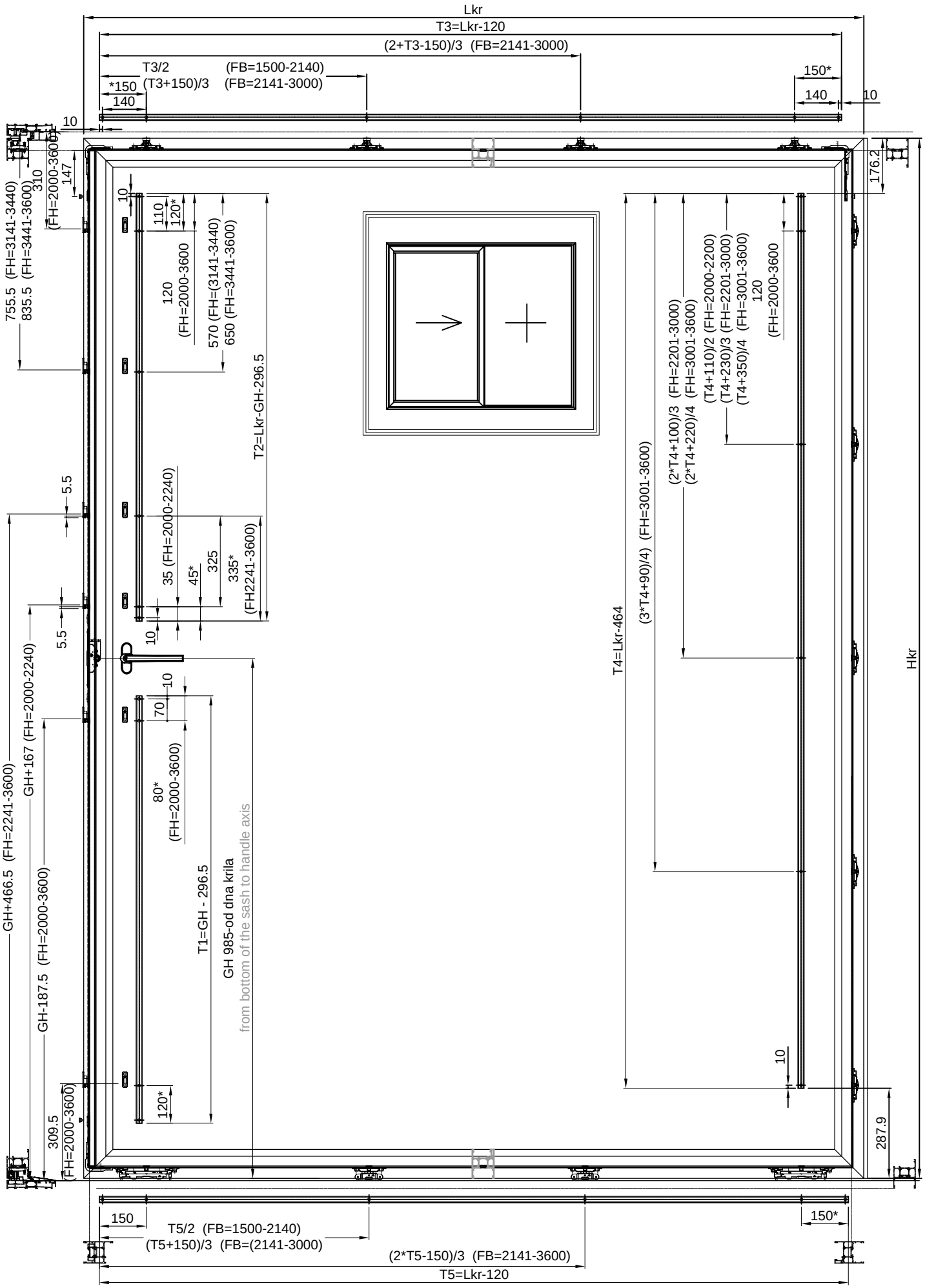


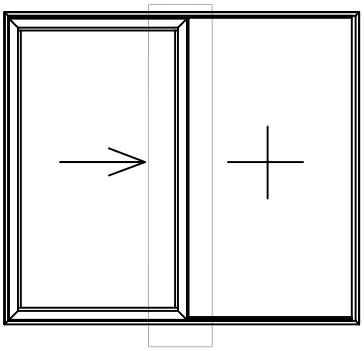
3. Krilo nageti prema vani u gornjem položaju
3. Tilt the sash outwards in top position



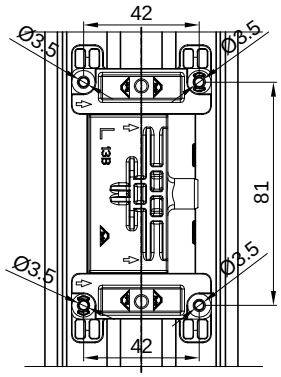
4. Izvaditi krilo iz rama
4. Remove the sash out of the frame

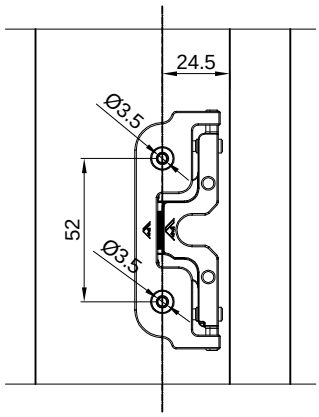



Lkr
T3=Lkr-120
(2+T3-150)/3 (FB=2141-3000)
T3/2 (FB=1500-2140)
*150 (T3+150)/3 (FB=2141-3000)
140
150*
140
10
10
147
310
(FH=2000-3600)
755.5 (FH=3141-3440)
835.5 (FH=3441-3600)
176.2
10
110
120*
120
(FH=2000-3600)
570 (FH=(3141-3440)
650 (FH=3441-3600)
T2=Lkr-GH-296.5
5.5
35 (FH=2000-2240)
45*
325
335*
(FH2241-3600)
10
5.5
10
70
10
80*
(FH=2000-3600)
GH+466.5 (FH=2241-3600)
GH+167 (FH=2000-3600)
GH-187.5 (FH=2000-3600)
309.5
(FH=2000-3600)
T1=GH - 296.5
GH 985-od dna krila
from bottom of the sash to handle axis
120*
T4=Lkr-464
(3*T4+90)/4) (FH=3001-3600)
(2*T4+100)/3 (FH=2201-3000)
(2*T4+220)/4 (FH=3001-3600)
(T4+110)/2 (FH=2000-2200)
(T4+230)/3 (FH=2201-3000)
(T4+350)/4 (FH=3001-3600)
120
(FH=2000-3600
10
Hkr
287.9
150
T5/2 (FB=1500-2140)
(T5+150)/3 (FB=(2141-3000)
150*
(2*T5-150)/3 (FB=2141-3600)
T5=Lkr-120

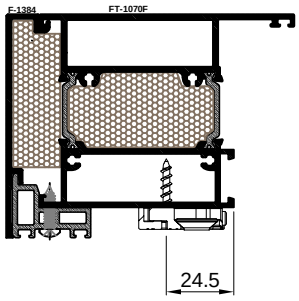


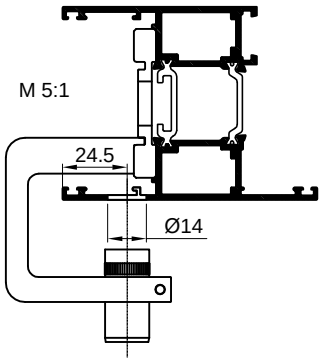
6 x vijak 4.2x22 DIN 7982
6 x screw 4.2x22 DIN 7982



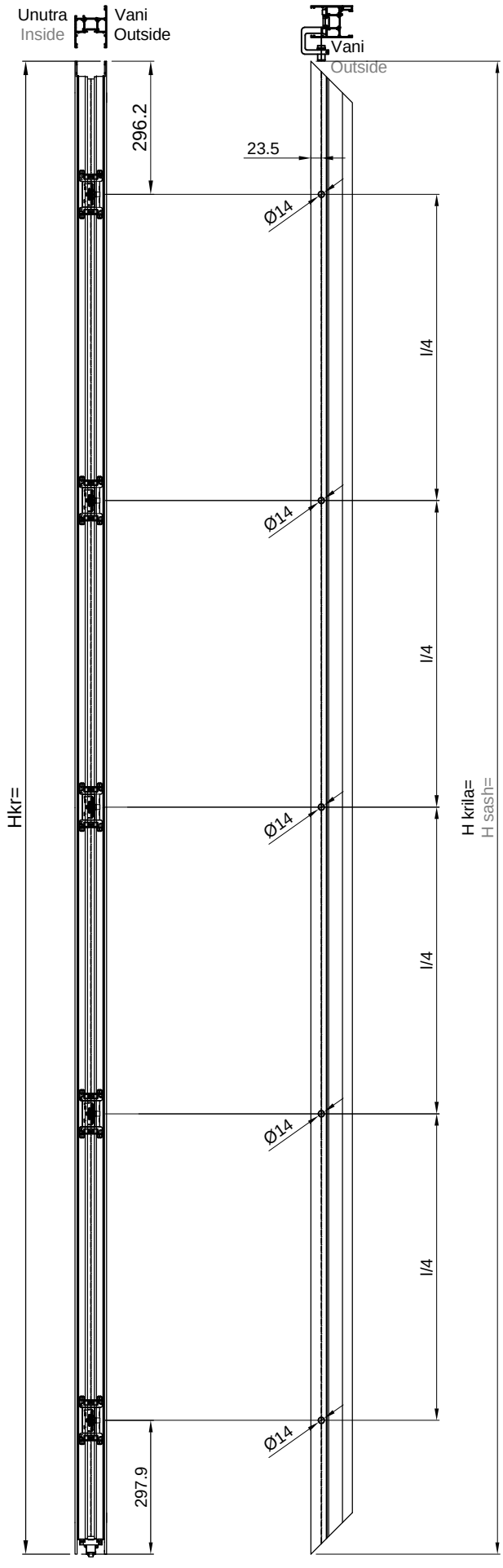


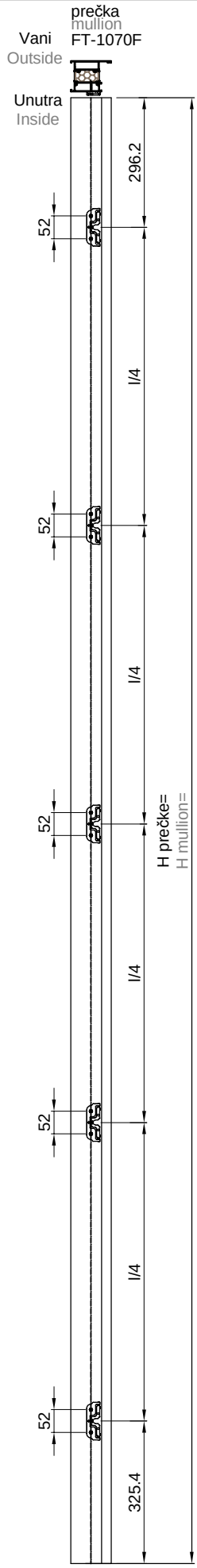
M 5:1

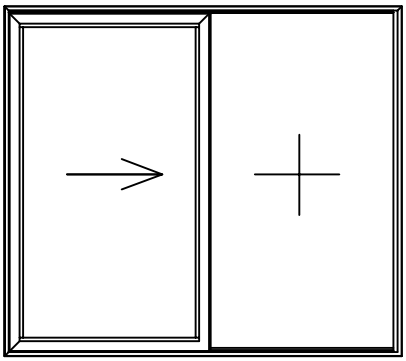


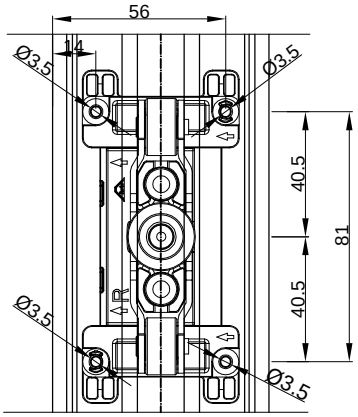


M 5:1

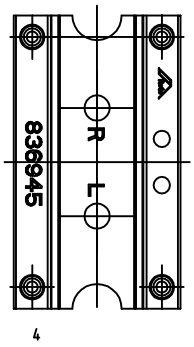


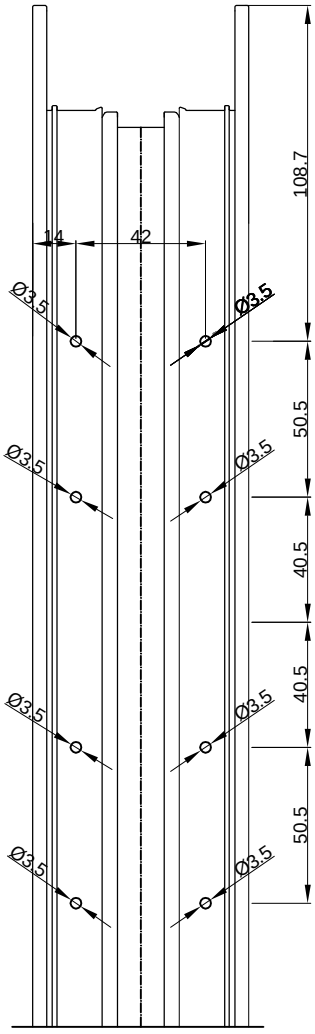




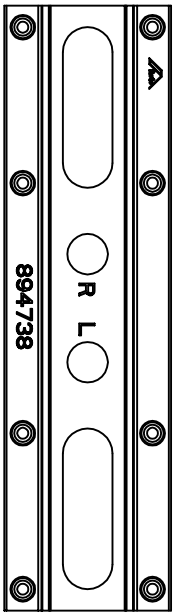


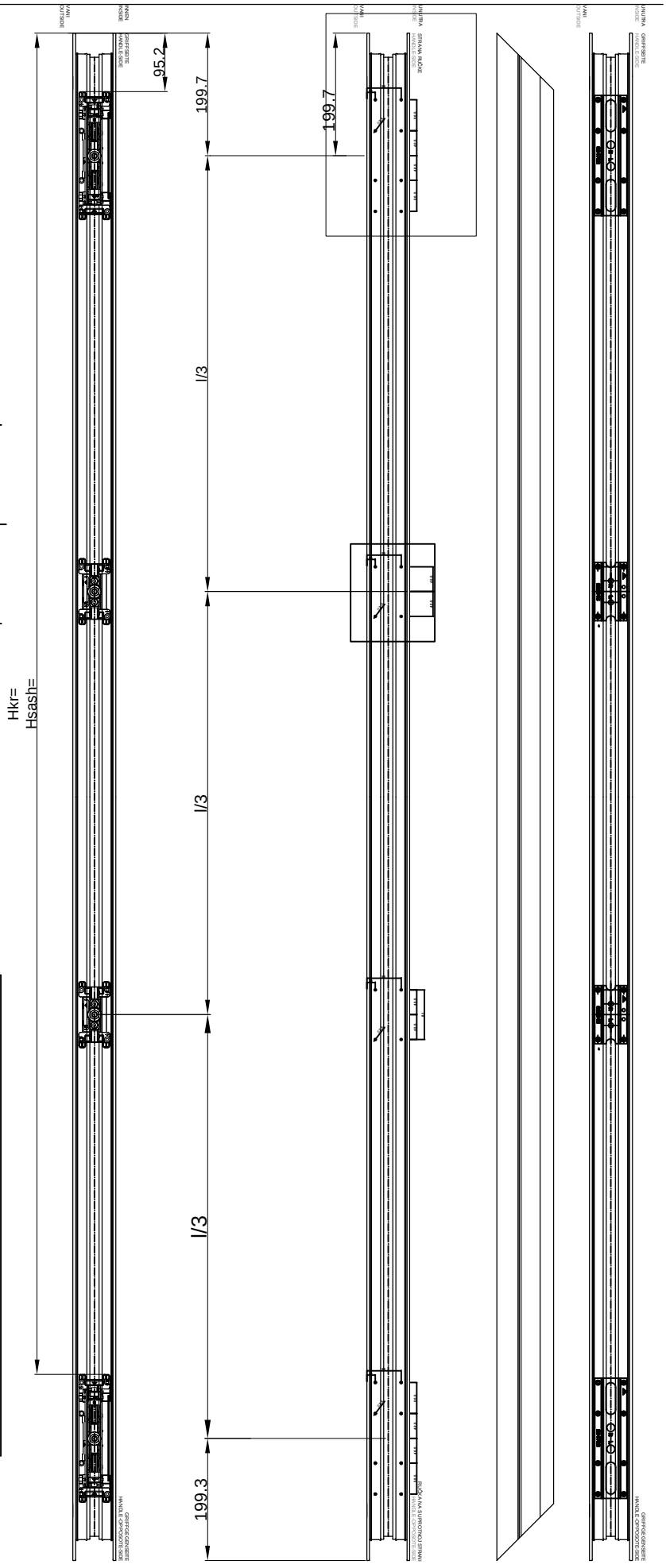
Koristiti šablon
Using templete



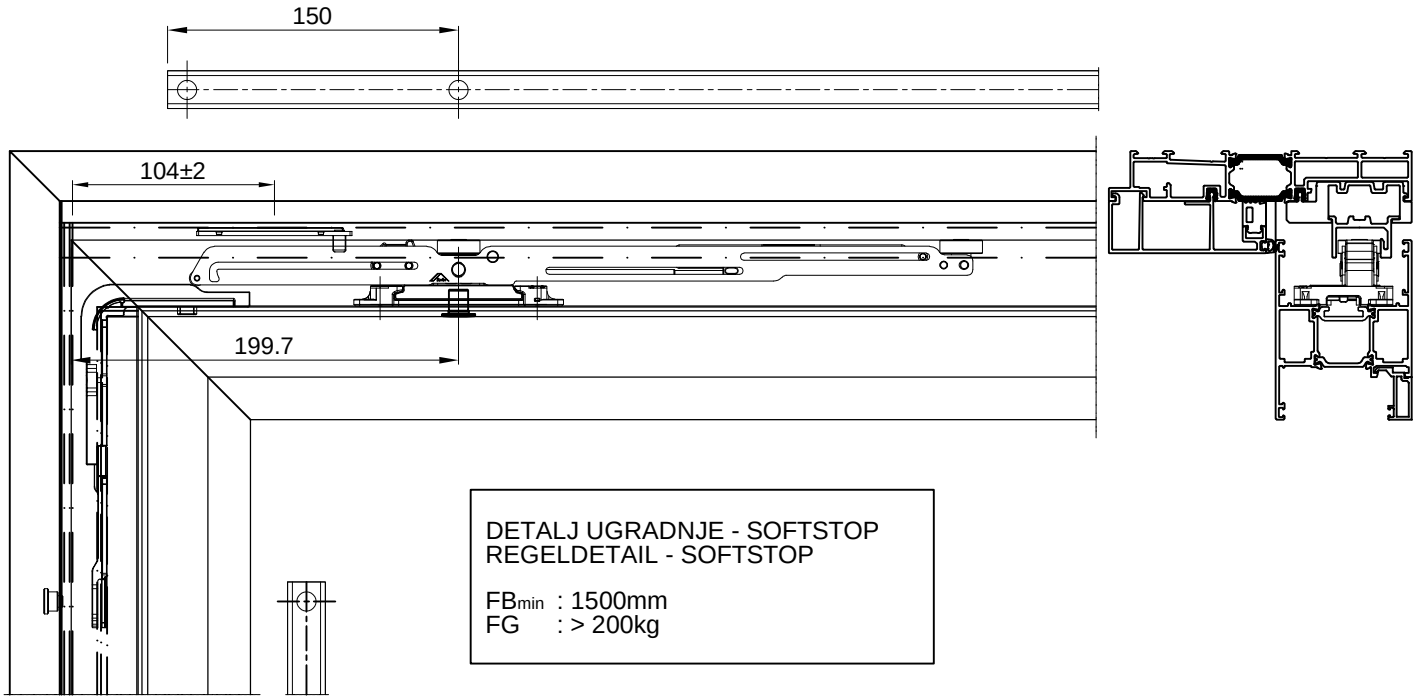


Koristiti šablon
Using templete



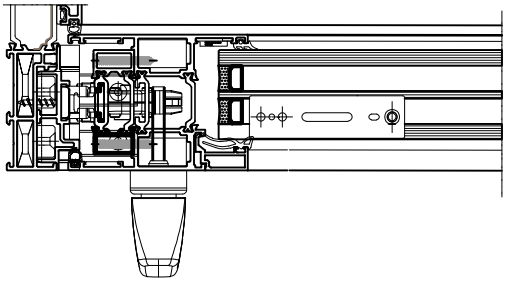


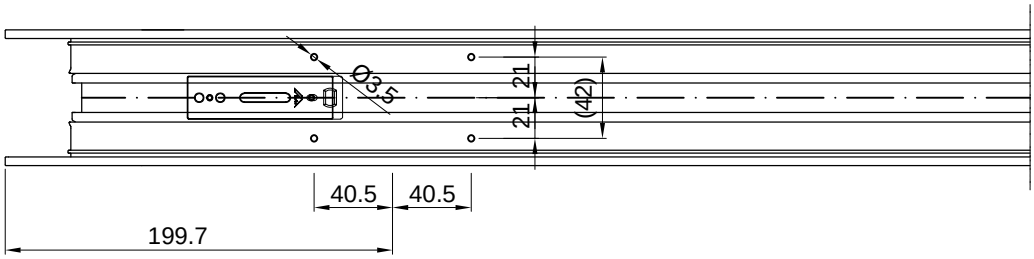
Ugradnja usporivača u krilo 200KG i 400KG
Instalation of the softclose/soft stop in the sash 200KG/400KG

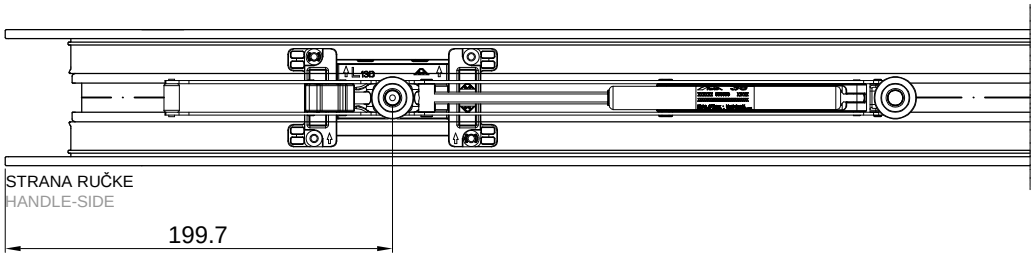


DETALJ UGRADNJE - SOFTSTOP
REGELDETAIL - SOFTSTOP

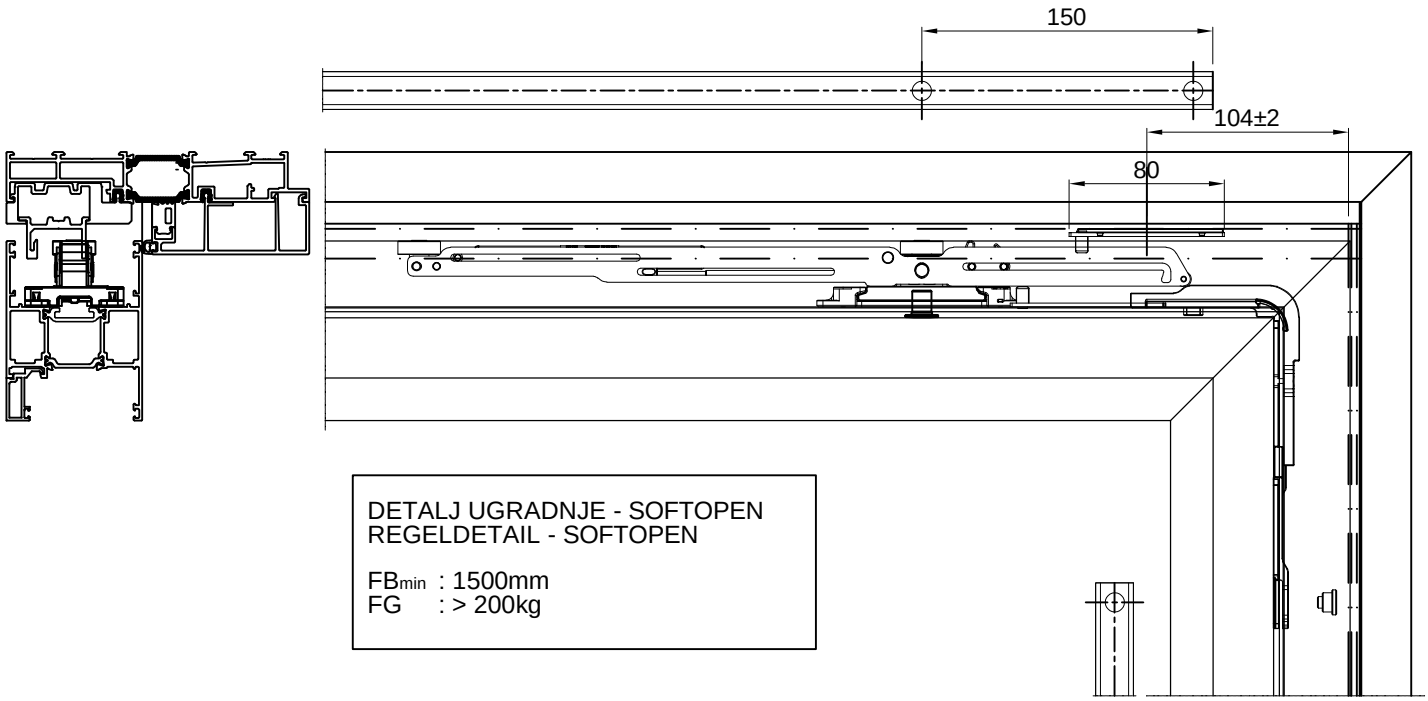
FB_{min} : 1500mm
FG : > 200kg





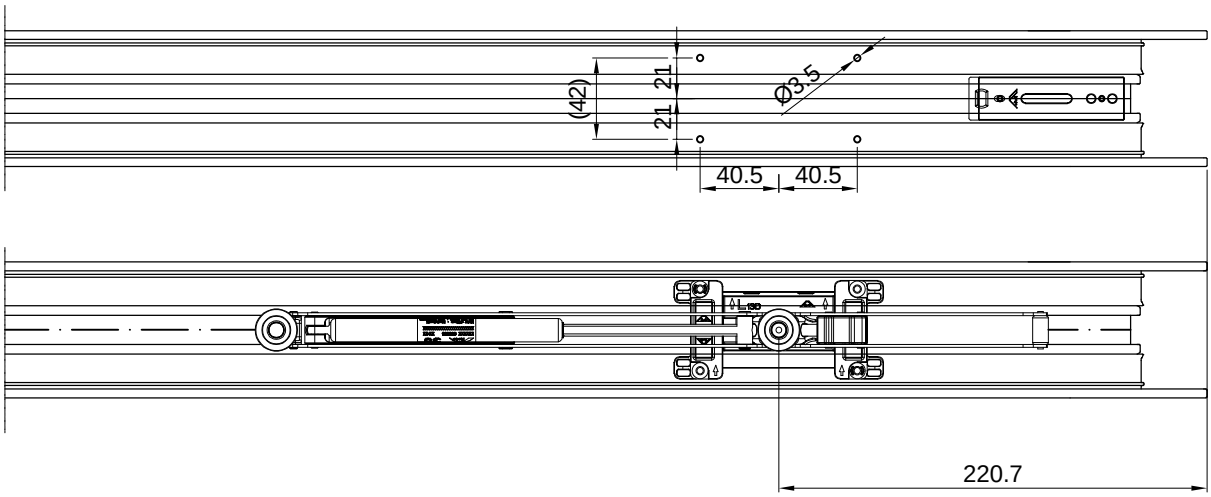


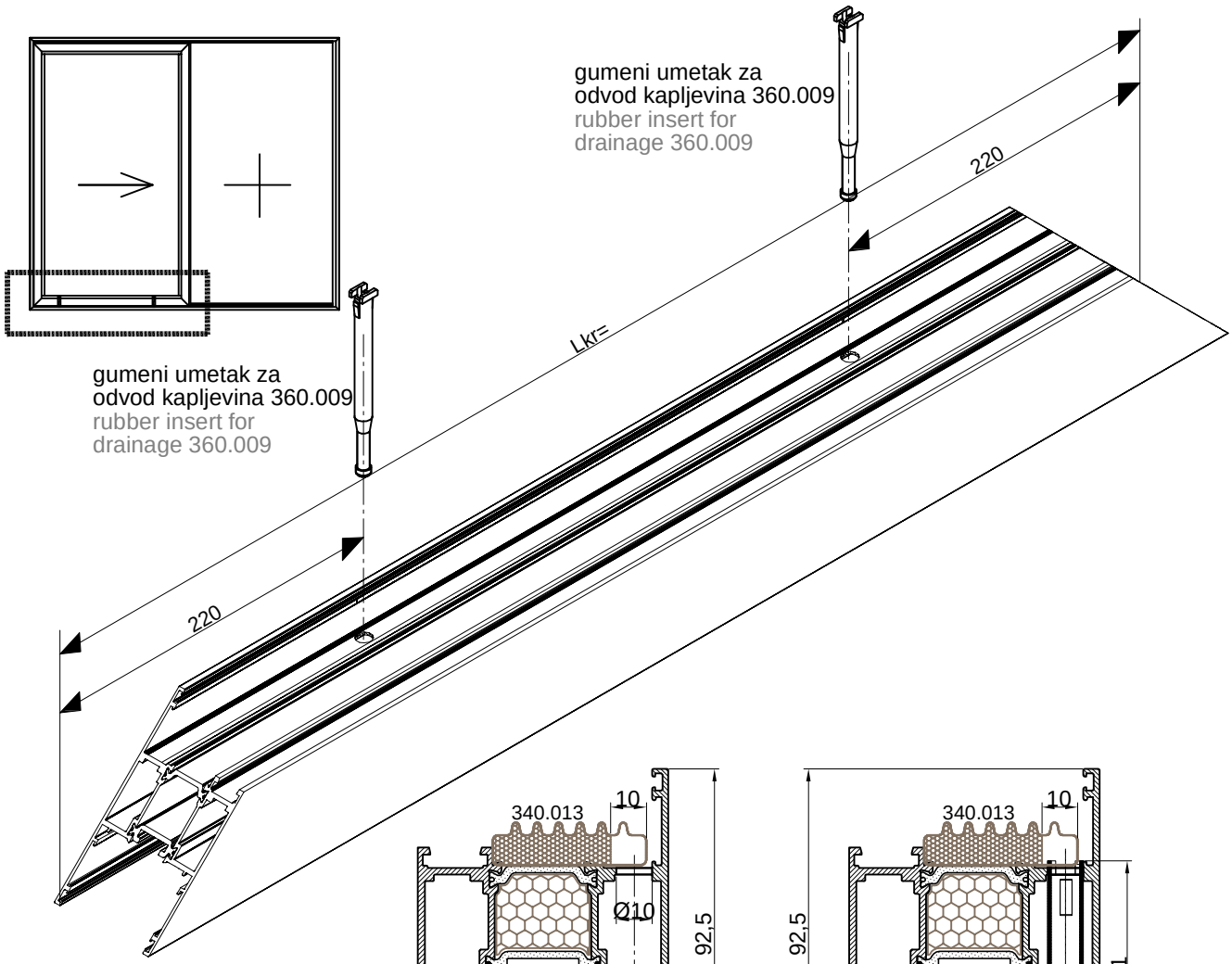
Ugradnja usporivača/pomoć pri otvaranju u krilo 200KG i 400KG
Instalation of the soft open/soft stop in the sash 200KG/400KG

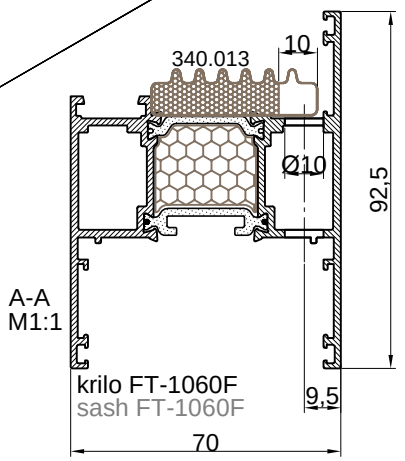


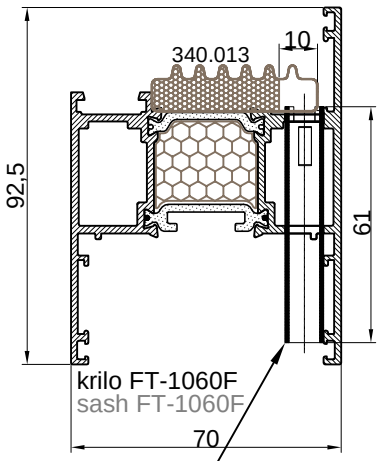
DETALJ UGRADNJE - SOFTOPEN
REGELDETAIL - SOFTOPEN

FB$_{min}$: 1500mm
FG : > 200kg

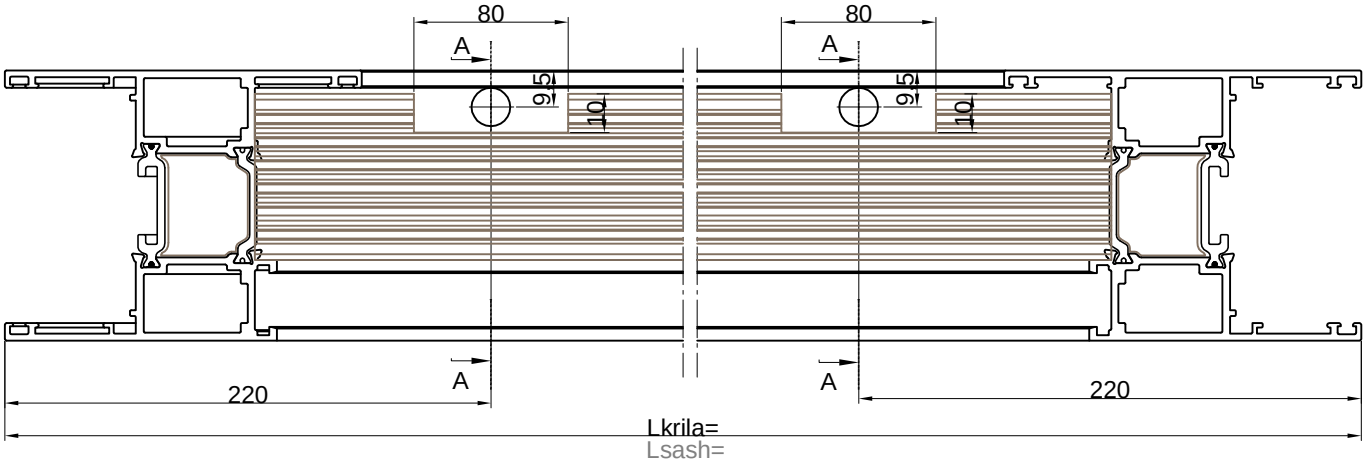




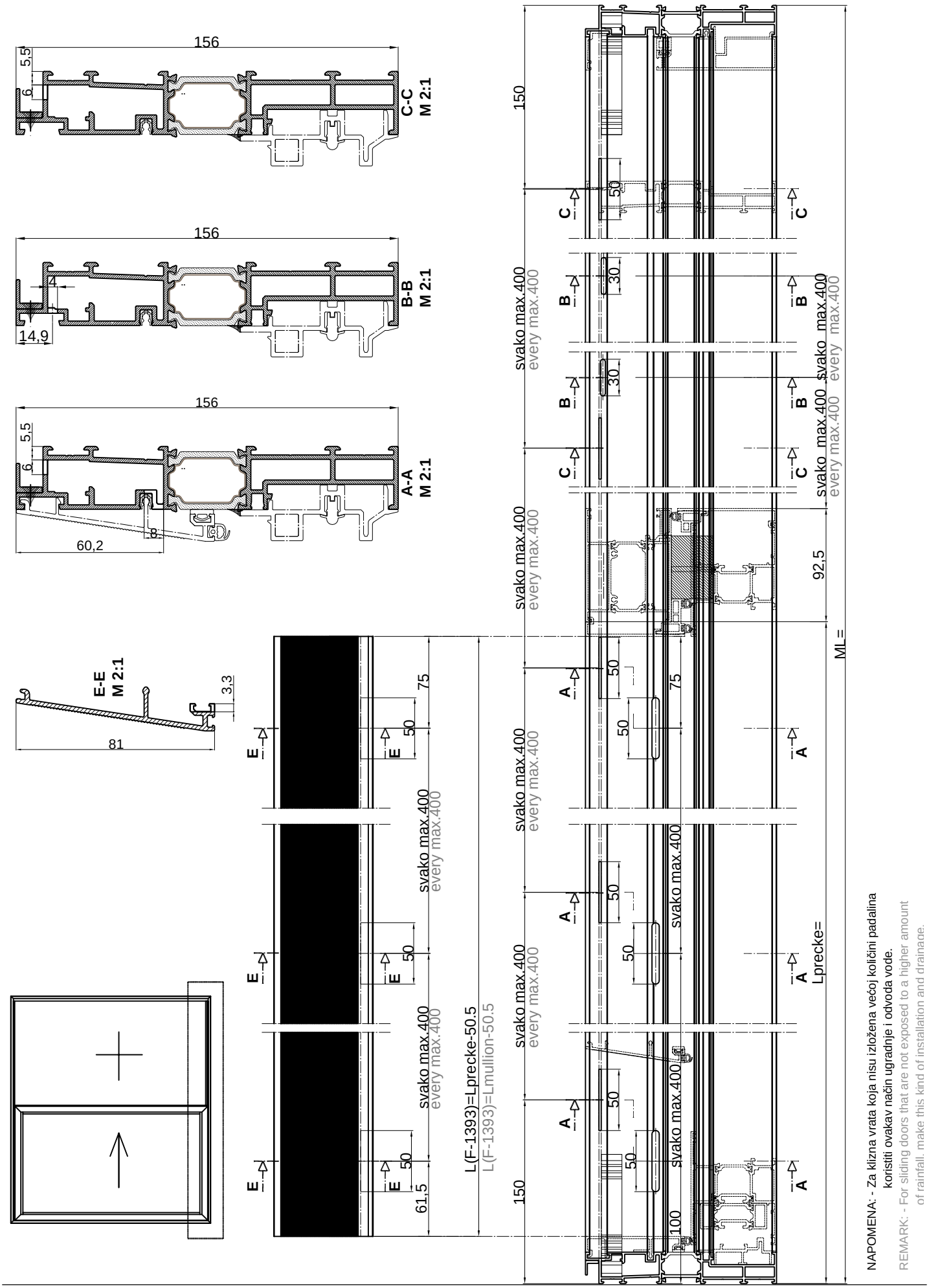




gumeni umetak za
odvod kapljevina 360.009 skratit
rubber insert for
liquid drainage 360.009 shorten

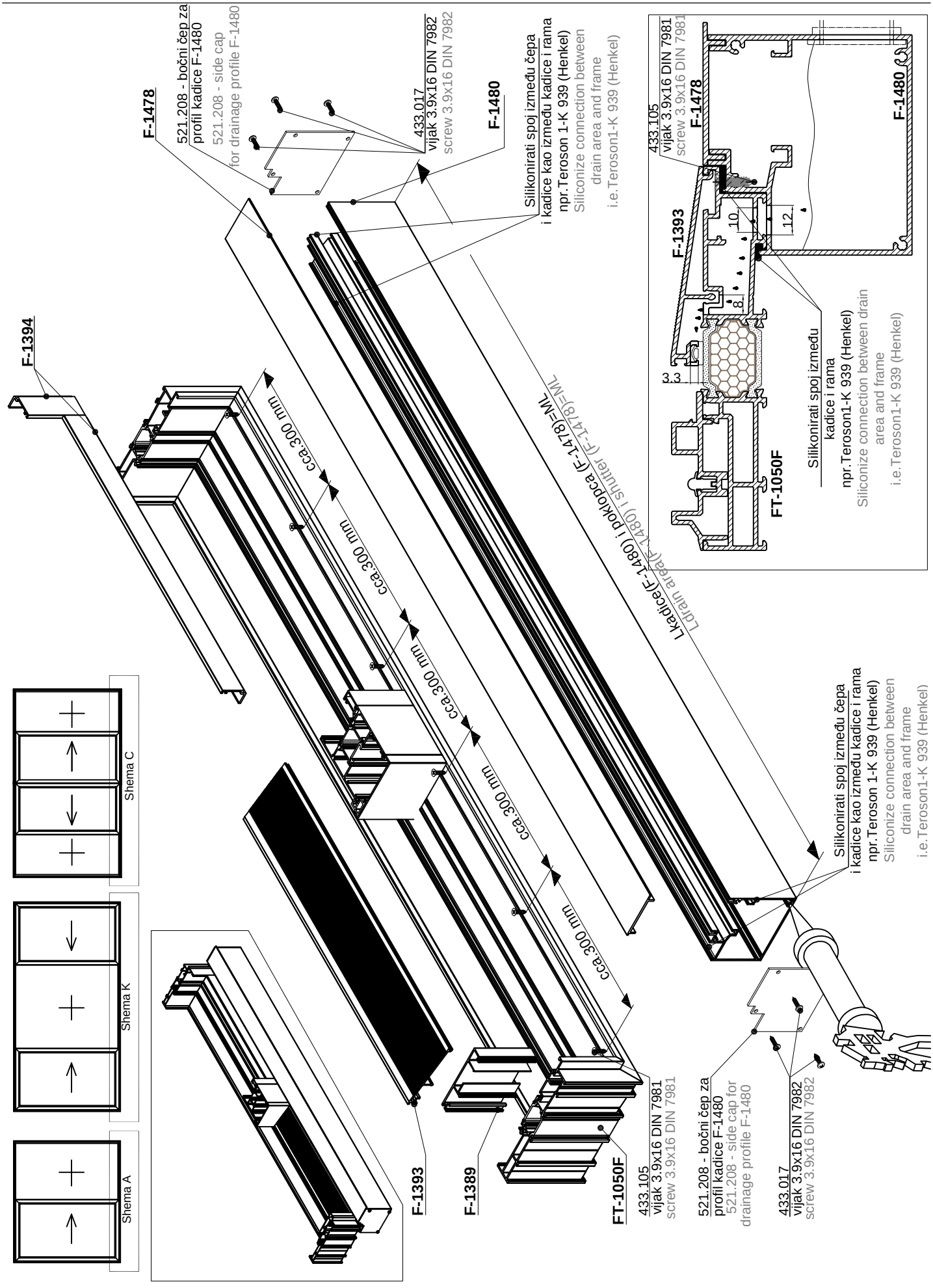


NAPOMENA: ZA KRILA DIMENZIJA VEĆIH OD 1000 mm DODATI JOŠ JEDAN UMETAK ZA ODVOD KAPLJEVINA NA SREDINU
REMARK: FOR SASH WITH DIMENSIONS OVER 1000 mm ADD ONE MORE INSERT FOR LIQUID DRAINAGE TO CENTER



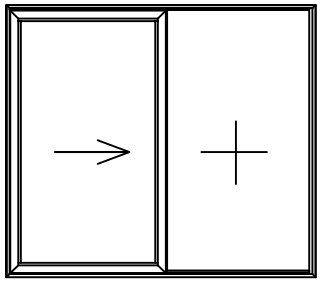
NAPOMENA: - Za klizna vrata koja nisu izložena većoj količini padalina koristiti ovakav način ugradnje i odvoda vode.

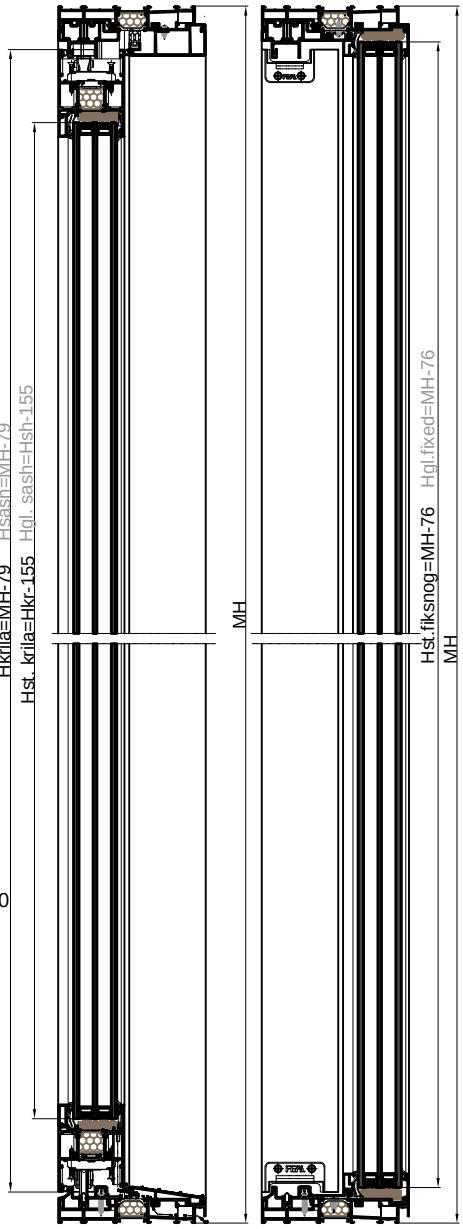
REMARK: - For sliding doors that are not exposed to a higher amount of rainfall. make this kind of installation and drainage.


F-1478
521.208 - bočni čep za profil kadice F-1480
521.208 - side cap for drainage profile F-1480
433.017 vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982
F-1480
Silikonirati spoj između čepa i kadice kao između kadice i rama npr.Teroson 1-K 939 (Henkel)
Siliconize connection between drain area and frame i.e.Teroson1-K 939 (Henkel)
433.105 vijak 3.9x16 DIN 7981
screw 3.9x16 DIN 7981
F-1478
F-1480
F-1393
10
12
8
3,3
FT-1050F
Silikonirati spoj između kadice i rama
npr.Teroson1-K 939 (Henkel)
Siliconize connection between drain area and frame
i.e.Teroson1-K 939 (Henkel)
F-1394
cca.300 mm
cca.300 mm
cca.300 mm
cca.300 mm
cca.300 mm
Lokalicaprag (F-1480) i pokolpca (F-1478)=ML
Lokalicaprag (F-1480) i shutter (F-1478)=ML
Silikonirati spoj između čepa i kadice kao između kadice i rama
npr.Teroson 1-K 939 (Henkel)
Siliconize connection between drain area and frame
i.e.Teroson1-K 939 (Henkel)
F-1393
F-1389
FT-1050F
433.105 vijak 3.9x16 DIN 7981
screw 3.9x16 DIN 7981
521.208 - bočni čep za profil kadice F-1480
521.208 - side cap for drainage profile F-1480
433.017 vijak 3.9x16 DIN 7982
screw 3.9x16 DIN 7982
Shema A
Shema K
Shema C

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-treshold	ML-90	1	90-90
F-1112	al vodilica-elox S0	al guide-elox S0	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	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.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		
358.016	brtva	gasket	1H		
358.017	brtva	gasket	L/2		
328.002	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		



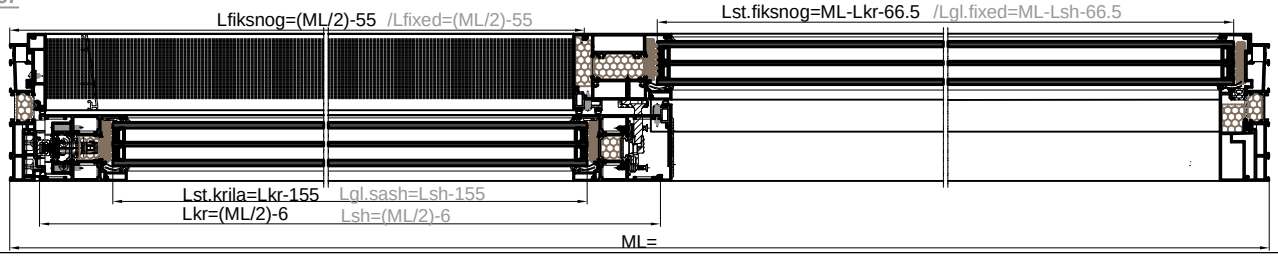


NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....
- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

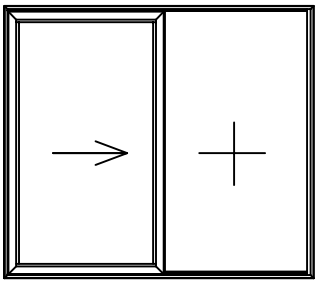
GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)

- 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		
358.016	brtva	gasket	1H		
358.017	brtva	gasket	L/2		
328.002	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		



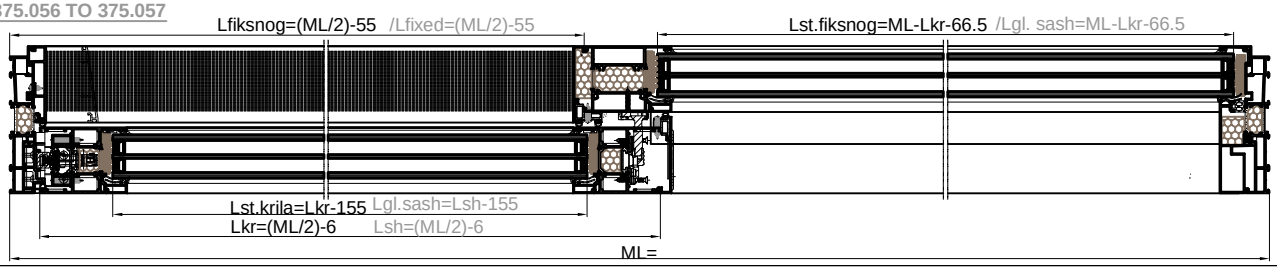


NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....
- IZBOR STAKLO LAJSNI U IZRAČUNU JE ZA STAKLO DEBLJINE 46 mm

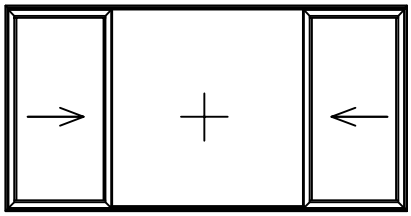
GH (kota dno krila-osa ručke)
GH (dim.bottom end of sash-axis handle)

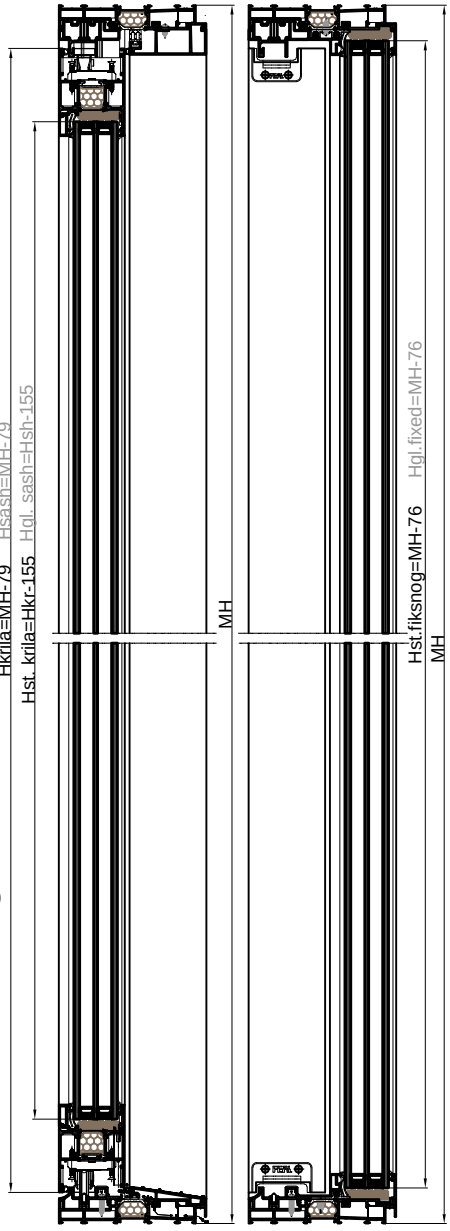
- IZRAČUN JE ZA LIJEVA VRATA UKOLIKO SE KORISTE DESNA MJENJA SE PVC UMETAK 375.054 U 375.055 I UMETAK 375.056 U 375.057

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/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-1466	vodoravni umetak rama-prag	hor.insert frame-treshold	ML-90	1	90-90
F-1112	al vodilica (elox S0)	al guide-elox S0	ML-90	1	90-90
F-1393	maska praga	treshold 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 profili					
374.064	umetak za st.lajsnu F-1396	insert for gl. bead F-1396	Lxp-141	1	90-90
374.065	umetak za st.lajsnu 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		
358.017	brtva	gasket	L/2		
328.002	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		





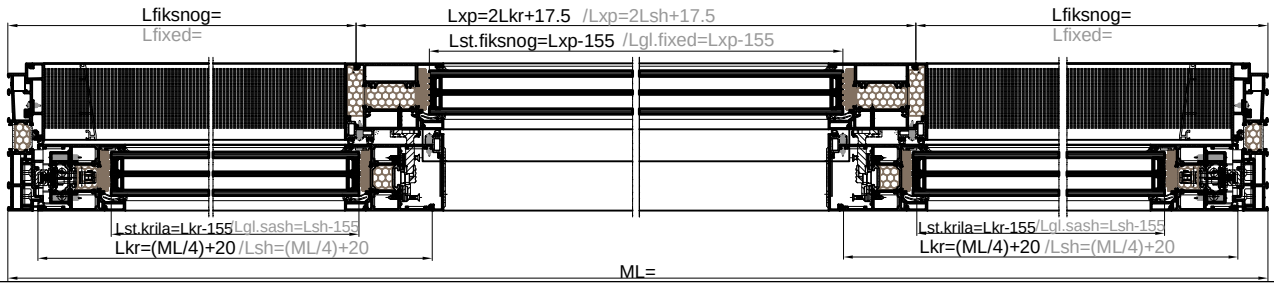
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

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

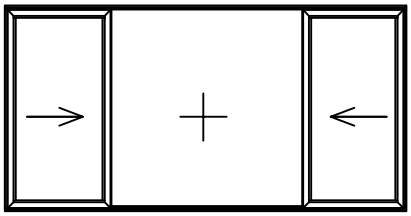
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

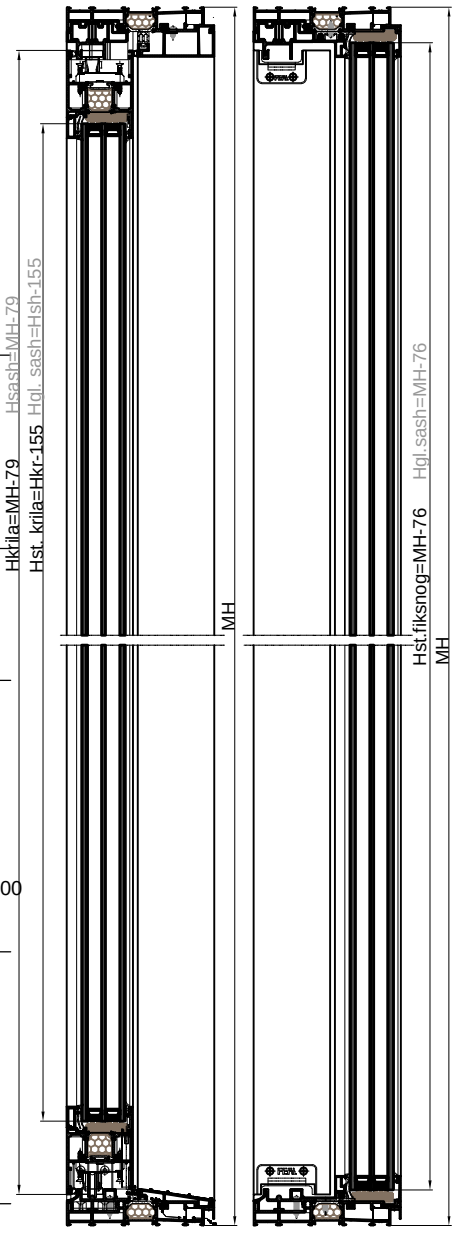
- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

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-treshold	ML-90	1	90-90
F-1393	maska praga	treshold 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.lajsnu F-1396	insert for gl. bead F-1396	Lxp-141	1	90-90
374.065	umetak za st.lajsnu 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		
358.017	brtva	gasket	L/2		
328.002	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		





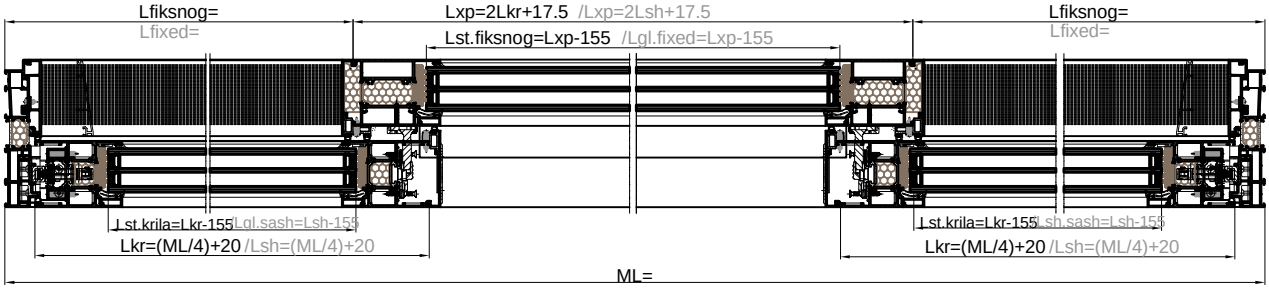
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

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

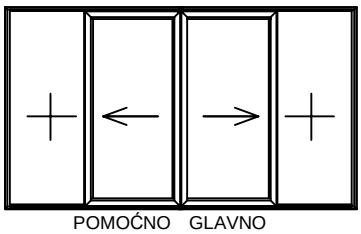
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

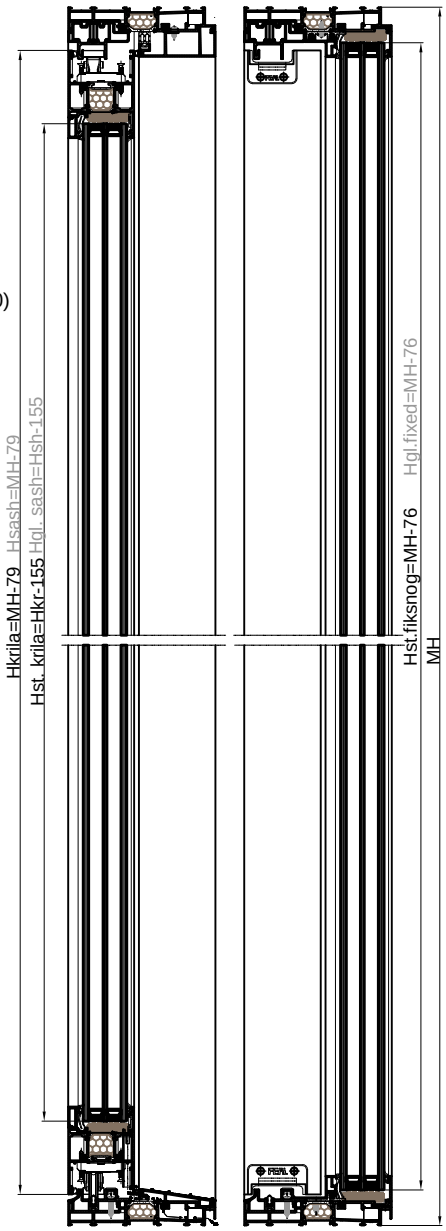
- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

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-treshold	ML-106	1	90-90
F-1112	al vodilica (elox S0)	al guide (elox S0)	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
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 profili					
374.064	umetak za st.lajsnu F-1396	insert for gl. bead F-1396	Lfix-123.5	2	90-90
374.065	umetak za st.lajsnu 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	
358.016	brtva	gasket	2H		
358.017	brtva	gasket	ML-2Lfix-25	1	
328.002	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		





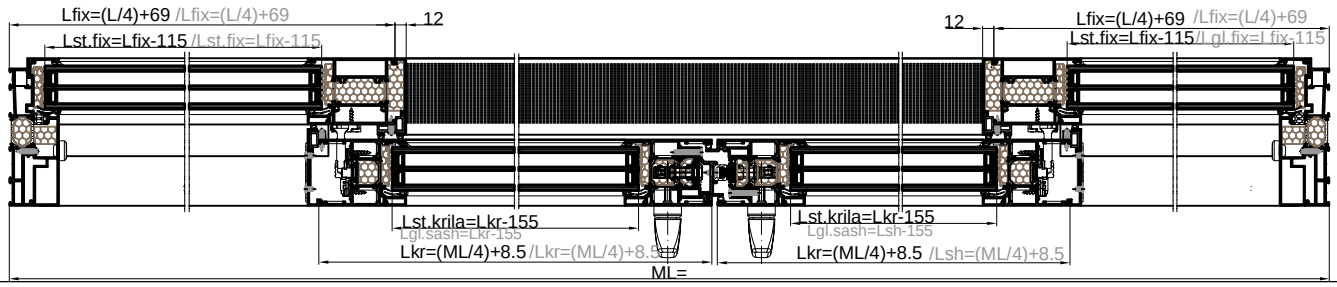
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....

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

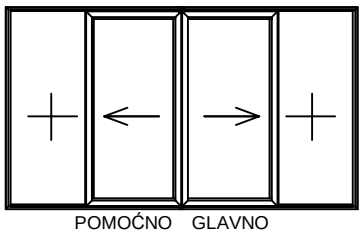
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

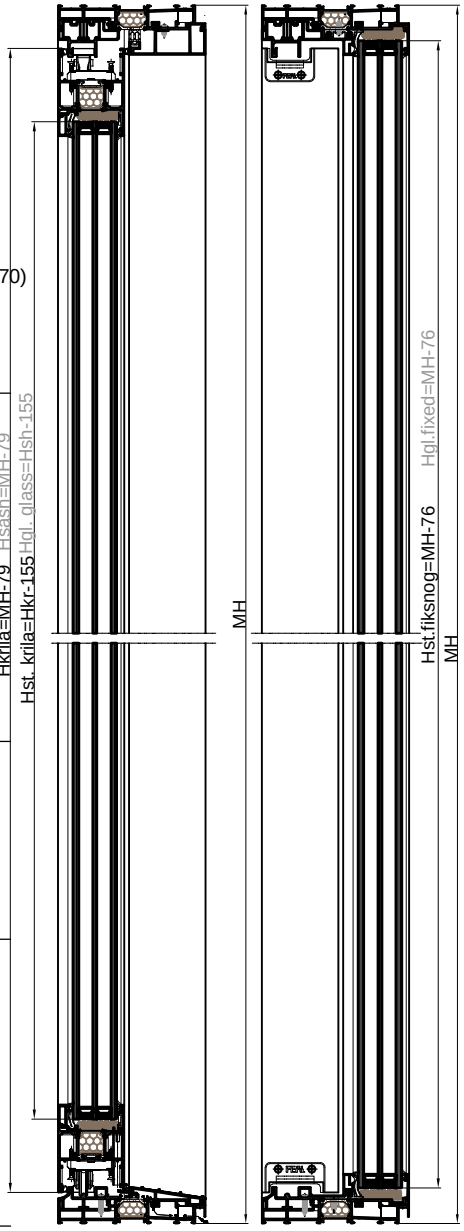
- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

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=(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
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.lajsnu F-1396	insert for gl. bead F-1396	Lfix-123.5	2	90-90
374.065	umetak za st.lajsnu 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	
358.016	brtva	gasket	2H		
358.017	brtva	gasket	ML-2Lfix-25	1	
328.002	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		





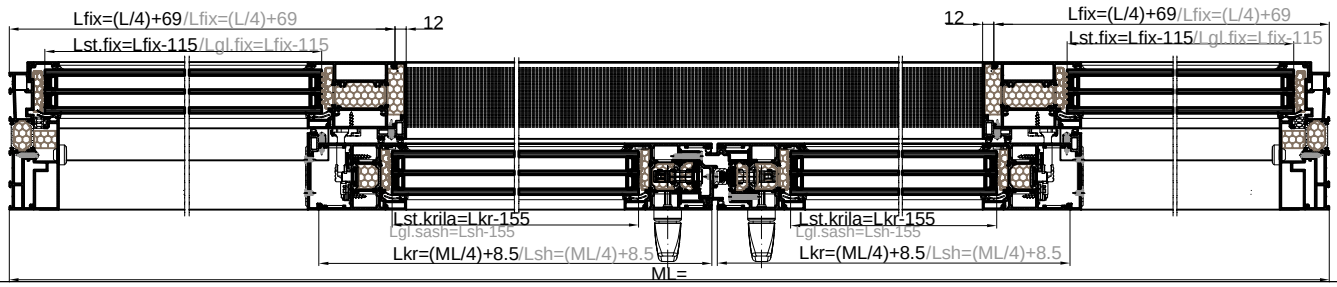
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01....

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

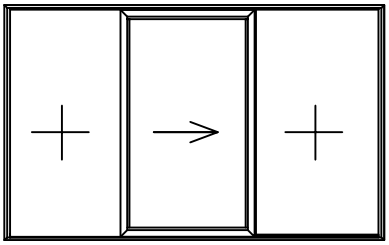
REMARK: - HARDWARE AND HANDLES TO CHOOSE FROM CATALOG str. 405.06.01...

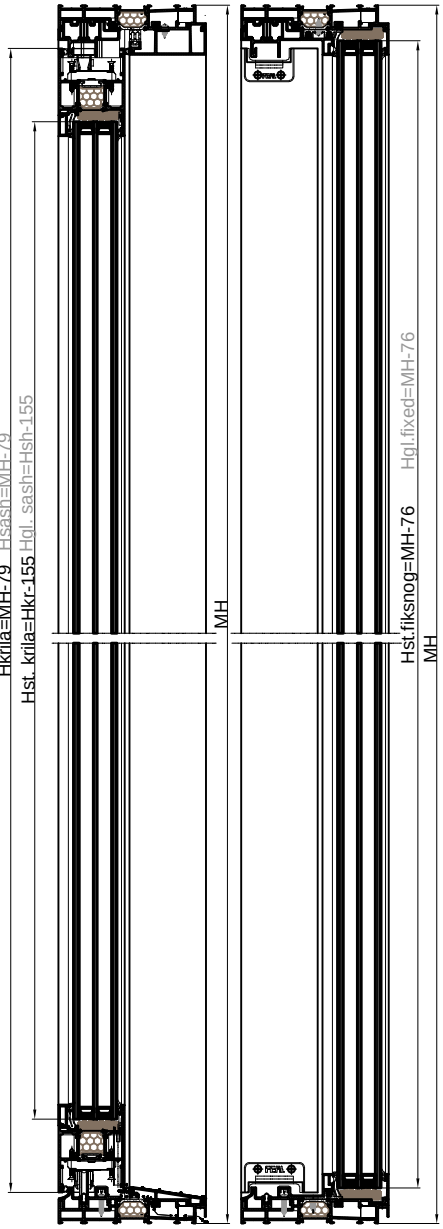
- GLAZIN BEADS SELECTION IN CALCULATION IS FOR GLASS THICKNESS 46 mm

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	Lfikx1-79.5	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	Lfix1-79.5	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.lajsnu F-1395	insert for gl. bead F-1395	Lfix-103	1	90-90
374.065	umetak za st.lajsnu F-1395	insert for gl. bead F-1395	ML-(ML1+79.5)	1	90-90
374.064	umetak za st.lajsnu F-1396	insert for gl. bead F-1396	Lfix-103	1	90-90
374.064	umetak za st.lajsnu 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		
358.016	brtva	gasket	3H		
358.017	brtva	gasket	L/2		
328.002	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		





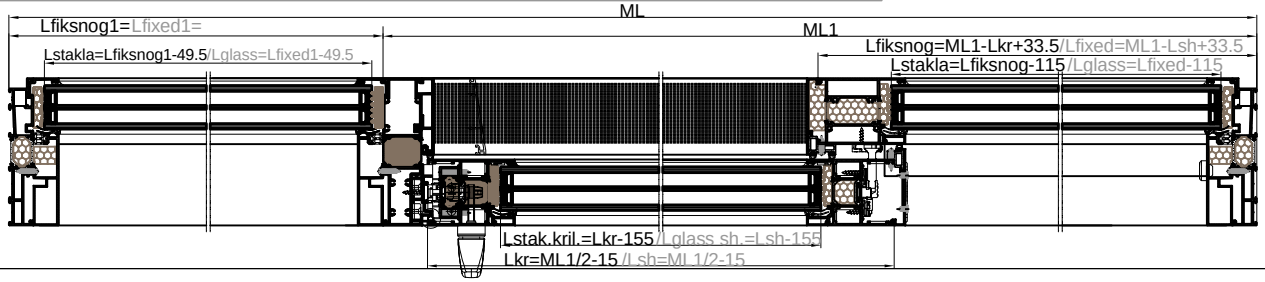
NAPOMENA: - OKOV I RUČKE IZABRATI IZ KATALOGA str. 405.06.01...

- 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...

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



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INOWA

Travanj 2026. / *April 2026.*

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