



# SYSTEM CASTLE

19'66 W+

ARCHITECTURAL  
CATALOGUE







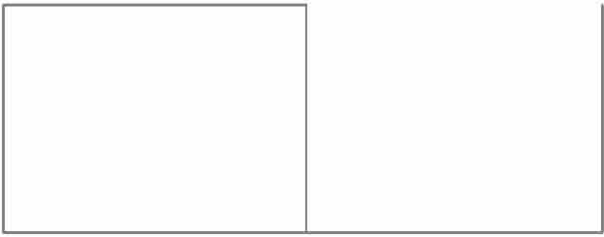
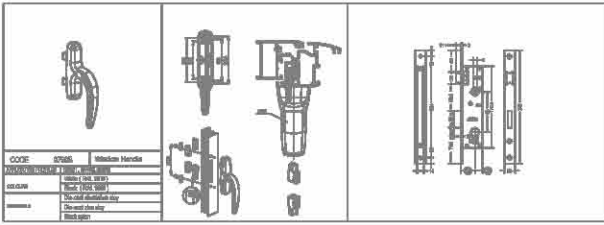
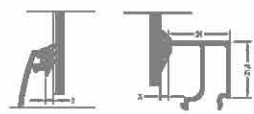



EDITION : 03 / 2006



SYSTEM CASTLE 19'66 W+



**TECHNICAL INFORMATION**

<p><b>a - TECHNICAL INFORMATION</b></p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <thead> <tr> <th rowspan="2">DETAIL page</th> <th rowspan="2">NR</th> <th rowspan="2">PROFILE </th> <th rowspan="2">DESCRIPTION</th> <th rowspan="2">THERMISTON WEIGHT (kg/m)</th> <th colspan="2">Status</th> <th colspan="2">Surfaces</th> <th rowspan="2">L in </th> </tr> <tr> <th>Jxx (cm<sup>4</sup>)</th> <th>Jyy (cm<sup>4</sup>)</th> <th>Coating Surface (m)</th> <th>Coating Surface (m)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DETAIL page	NR	PROFILE 	DESCRIPTION	THERMISTON WEIGHT (kg/m)	Status		Surfaces		L in 	Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Coating Surface (m)	Coating Surface (m)											<p>Page <b>001.a - 008.a</b></p>	
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<p><b>b - PROFILE</b></p>		<p>Page <b>001.b - 020.b</b></p>																									
<p><b>c - ACCESSORIES</b></p>	 <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px; margin-top: 5px;"> <thead> <tr> <th>CODE</th> <th>STATUS</th> <th>Material Handle</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	CODE	STATUS	Material Handle																<p>Page <b>001.c - 021.c</b></p>							
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<p><b>d - GLAZING TABLE</b></p>	 <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px; margin-top: 5px;"> <thead> <tr> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> <tr> <th>GLAZING BEAD</th> <th>GLAZING THICKNESS</th> <th>GLAZING GASKET INSIDE</th> <th>GLAZING GASKET OUTSIDE</th> <th>WEDGES</th> </tr> </thead> <tbody> <tr> <td>11GW12</td> <td>4 mm</td> <td>P1-4</td> <td>3 mm MO 88.3</td> <td>---</td> </tr> <tr> <td>11GW12</td> <td>5 mm</td> <td>P1-3</td> <td>3 mm MO 88.3</td> <td>---</td> </tr> <tr> <td>11GW11</td> <td>6 mm</td> <td>P1-6</td> <td>3 mm MO 88.3</td> <td>---</td> </tr> </tbody> </table>	A	B	C	D	E	GLAZING BEAD	GLAZING THICKNESS	GLAZING GASKET INSIDE	GLAZING GASKET OUTSIDE	WEDGES	11GW12	4 mm	P1-4	3 mm MO 88.3	---	11GW12	5 mm	P1-3	3 mm MO 88.3	---	11GW11	6 mm	P1-6	3 mm MO 88.3	---	<p>Page <b>001.d - 002.d</b></p>
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<p><b>e - DETAILS</b></p>		<p>Page <b>001.e - 036.e</b></p>																									
<p><b>f - CUTTING SIZES</b></p>	Empty space for cutting sizes																										
<p><b>g - APPLICATION DETAILS</b></p>	Empty space for application details																										



TECHNICAL INFORMATION

## a - TECHNICAL INFORMATION

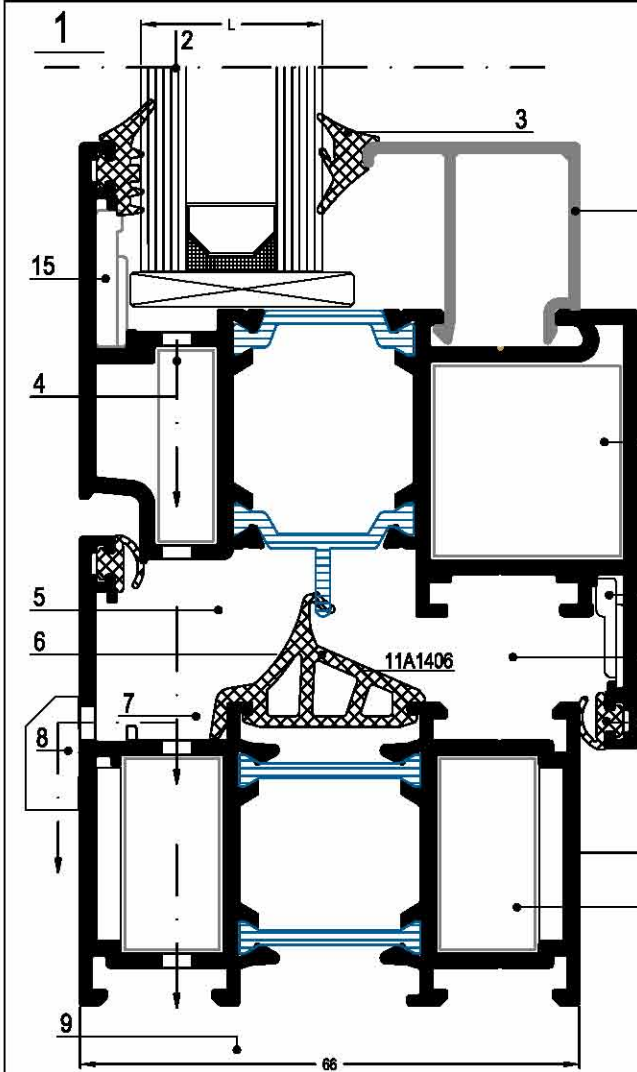
CATAL. PAGE	NR	PROFILE		DESCRIPTION	THEORETICAL WEIGHT kg/m	Statics		Surfaces		L m 
						J <sub>xox</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Coating Surface (cm)	Covering Surface (cm)	

\* The weights are theoretical of presed profiles.

\* When profiles are powder coated weight may increase by % 4 .

\* Unless otherwise indicated , all dimensions in this catalogue are  $\pm 0.1$  mm and weights may vary by % 4 .

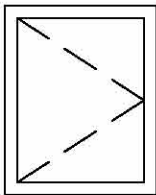
TECHNICAL INFORMATION



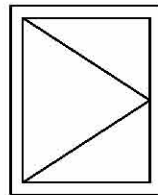
- 1 - Class 3 according to norm DIN4108
- 2 - Glazing : from 17 to 40 mm
- 3 - E.P.D.M. sealing Gasket
- 4 - Efficient drainage of the vent section
- 5 - Efficient chamber for pressure leveling which provides a better watertightness.
- 6 - Central sealing gasket for a better wind and watertightness.
- 7 - Proved drainage avoids infiltration of water under the central gasket.
- 8 - Direct front chamber drainage.
- 9 - Economic height : frame : 66 mm  
vent : 74 mm
- 10- Different glazing beads from 15 mm to 36 mm
- 11 - Corner cleats with PRES
- 12 - Outer profile according to the European norm.
- 13- Acoustical gasket in E.P.D.M.
- 14- Different combinations of outer frames and vent sections.
- 15- Die cast corner joint for perfect corner
- 16- Pvc corner joint for perfect corner

EXTERIOR VIEW

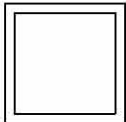
INSIDE OPENING



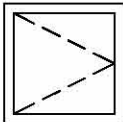
OUTSIDE OPENING



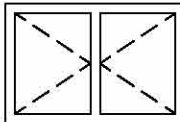
FIXED FRAME



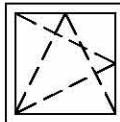
TURNING WINDOW



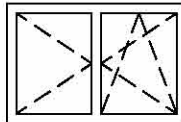
DOUBLE TURNING WINDOW



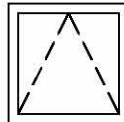
TURN & TILT WINDOW



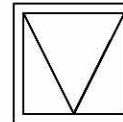
TURN & TILT  
TURN WINDOW



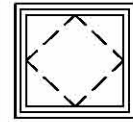
TILT WINDOW



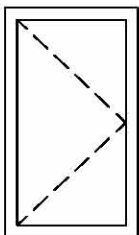
PROJECTING WINDOW



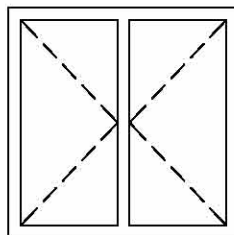
PIVOT WINDOW



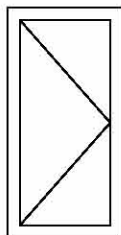
INSIDE OPENING DOOR



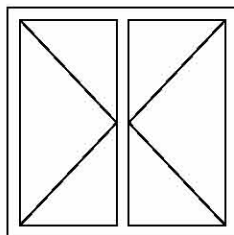
DOUBLE INSIDE OPENING DOOR



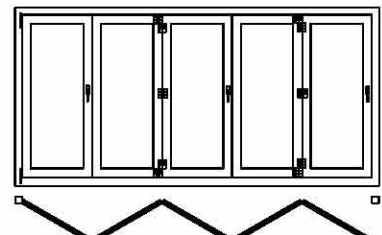
OUTSIDE OPENING DOOR



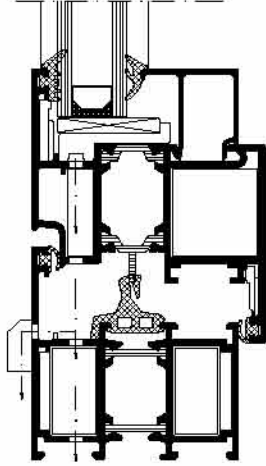

DOUBLE OUTSIDE OPENING DOOR



FOLDING DOOR



**CONTENTS OF THE TENDER**

<p><b>DESCRIPTIONS</b></p>	 
<p><b>*** CASTLE 17'60 W+ System insulated window and door systems.</b></p>	
<p><b>Construction Depth</b></p>	<p>* <b>Window</b> : Frame: 60 mm - Vent : 68 mm * <b>Door</b> : Frame: 60 mm - Vent :68 mm</p>
<p><b>Glazing</b></p>	<p>Glazing from 4 mm up to 40 mm with dry E.P.D.M. Gaskets. The choice of joints and glazing beads depends on the thickness of the glass.According to the tolerances of the glazing either a smaller or bigger joint and or glazing bead is used.</p>
<p><b>Special Characteristics</b></p>	<p>Window types : inside , tilt and turn , double casement , pivot window . Door types : inside door ,outside door ,double door , folding door. The structural profile walls have a nominal thickness of 1.6 to 2 mm. Curved and round windows possible. Compatible with curtain wall system. Special ventilation possibilities.</p>
<p><b>Connections</b></p>	<p>The corner connections between the profiles are applications die cast corner joint. The transoms are fixed with T-connections or with screw through the outer frame.</p>
<p><b>Gaskets</b></p>	<p>The opening windows have a central gasket an acoustical gasket and glazing gaskets in E.P.D.M. This gasket forms a barrier between the cold and the warm chambers and does not allow any cold air to pass through to the profile components on the inside. The central gasket ensures the window is wind and watertight over the complete surface. The acoustic gasket is uninterrupted.</p>
<p><b>Drainage</b></p>	<p>All window types must be equipped with a drainage system in the bottom profiles or the transoms.</p>
<p><b>Fitting and anchoring</b></p>	<p>The windows and doors are fitted level and at perfectly right angles.The aluminium constructions are fixed to the brickwork in such a way that shrinkage or expansion of the building have no influence on the aluminium constructions.</p>

**GENERAL PRODUCT DESCRIPTION**

<b>Aluminium alloy</b>	The aluminium profiles are made out of the alloy 6060 and 6063 .
	The aluminium profiles have been extruded from the alloy AlMgSi 0.5 - F22 in according to the EN 12020 .
	Tolerance are based on the standart EN 12020 .
	<b>Physical Properties</b>
	1. Density : 2.71 g / cm <sup>3</sup>
	2. Elasticity module : 7000 kg / mm <sup>2</sup>
	3. Resistance : 2650 kg / mm <sup>2</sup>
	4. Melting point : 650 °C
	5. Coefficient of expansion : 23x10 C
	6. Thermal permeability : 0.48 cal / cm /s
<b>Surface Treatment</b>	<b>Mechanical Properties</b>
	1. Rupture strength : 23.9 kg / mm <sup>2</sup>
	2. Elasticity limit : 19 kg / mm <sup>2</sup>
	3. Hardness : 25 Brinell
	The profiles get a surface treatment as described further on. The colours of the profiles for the inside and outside are the same or different. The anodisation and enamel procedures are carried out under the responsibility of the systems supplier who offer
	<b>Electrostatic Powder Coating</b>
	The thermal break allows all surface treatments when compounded. The enamel construction version has the QUALICOAT label. On average, the coating thickness is minimally 60 micron. The architect can choose from the standart range of colour of the system su
	<b>Anodised Construction Version</b>
	The complete anodisation process takes place in accordance with the specifications of QUALANOD.
	<b>This procedure has to be applied to all exterior joinery situated in the following zones:</b>
*In industrial or highly polluted zones.	
*In city centres or along busy roads.	
*Along railroads.	
*In swimming pools , laboratories , industrial buildings , etc.	



**THERMAL TRANSMITTANCE**
**RMG (DIN 4108)**

1 group	$k \leq 2.0 \text{ W/(m}^2\text{K)}$
2.1 group	$2.0 < k \leq 2.8 \text{ W/(m}^2\text{K)}$
*** 2.2 group	$2.8 < k \leq 3.5 \text{ W/(m}^2\text{K)}$
2.3 group	$3.5 < k \leq 4.5 \text{ W/(m}^2\text{K)}$
3 group ***	$k > 4.5 \text{ W/(m}^2\text{K)}$

**THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2**
**Theory**

The thermal transmittance of a frame according to EN ISO 10077-2:

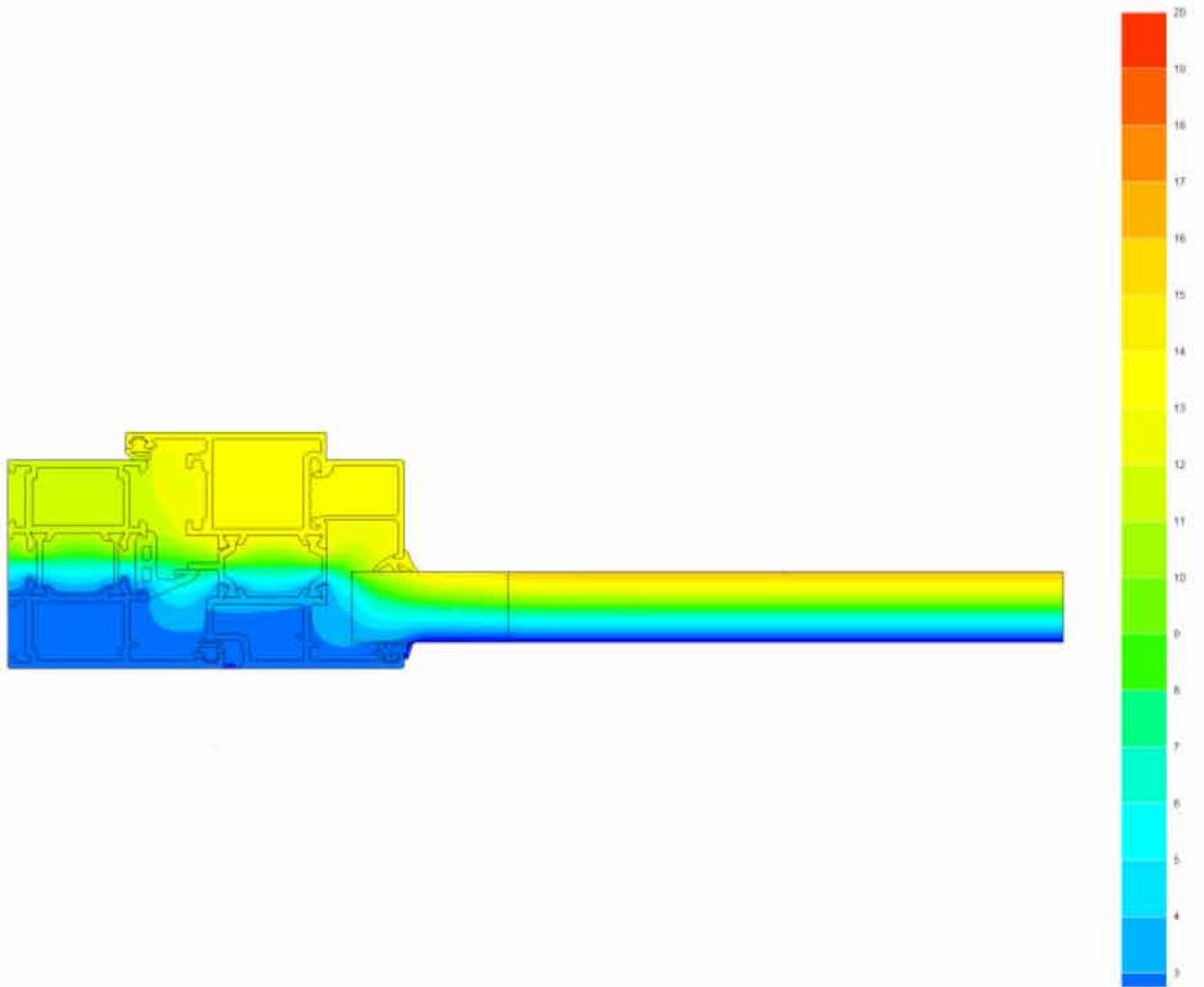
$$U_f = \frac{L_{2D} - U_p \cdot l_p}{l_f} \quad \text{and} \quad L_{2D} = \frac{q_{L,tot}}{\Delta \theta}$$

- with:
- $U_f$ : thermal transmittance of the window frame [W/m<sup>2</sup>K]
  - $U_p$ : thermal transmittance of the flanking panel [W/m<sup>2</sup>K]
  - $l_p$ : projected width of the flanking panel [m]
  - $l_f$ : projected width of the window frame [m]
  - $L_{2D}$ : two-dimensional coupling coefficient [W/mK]
  - $q_{L,tot}$ : total heat flow through the window frame and the flanking panel [W/m]
  - $\Delta \theta$ : temperature difference between inside ( $\theta_i$ ) and outside ( $\theta_e$ ) [K]

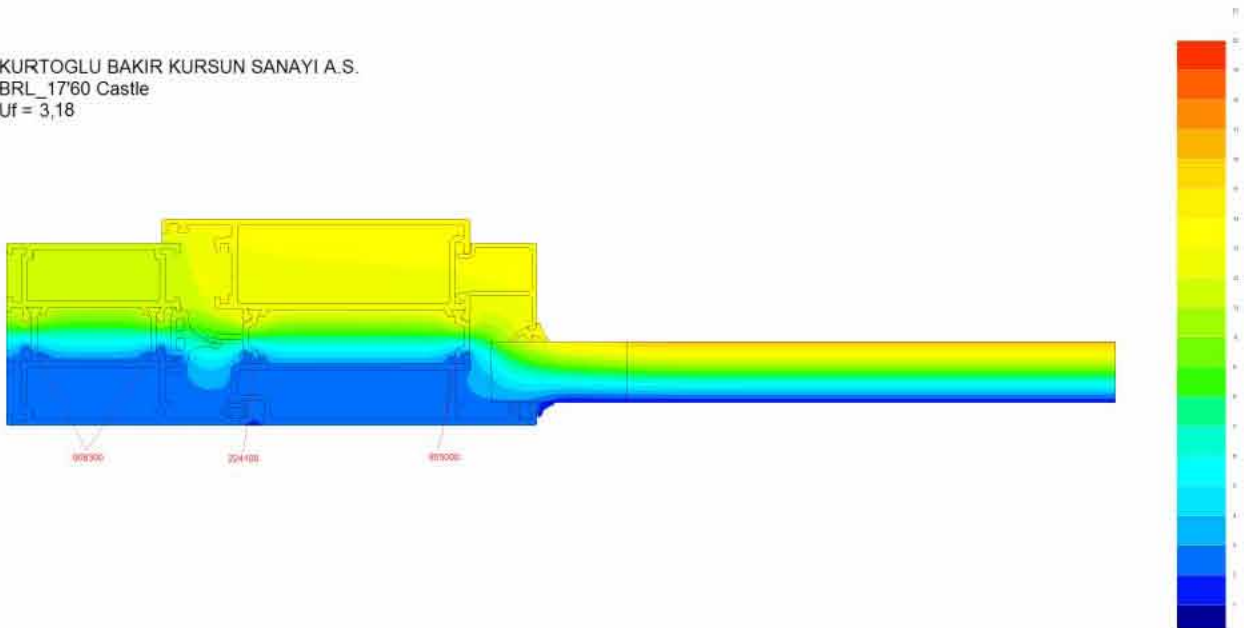
**Calculation Item:**

input data:	$q_{L,tot} = 16,250 \text{ W/m}$	$R_{se} = 0,04 \text{ m}^2\text{K/W}$
	$\theta_e = 0,0 \text{ }^\circ\text{C}$	$R_d = 0,13 \text{ m}^2\text{K/W}$
	$\theta_i = 20,0 \text{ }^\circ\text{C}$	
	$d_p = 0,0200 \text{ m}$	
	$\lambda_p = 0,035 \text{ W/m}^\circ\text{K}$	
	$U_p = 1,349 \text{ W/m}^2\text{K}$	
	$l_p = 0,190 \text{ m}$	
		calculation results:
	$l_f = 0,1750 \text{ m}$	$L_{2D} = 0,81 \text{ W/mK}$
		$U_f = 3,18 \text{ W/m}^2\text{K}$

THERMAL TRANSMITTANCE



KURTOGLU BAKIR KURSUN SANAYI A.S.  
BRL\_17'60 Castle  
Uf = 3,18



TEST REPORT

**siskom** Test Report  
Sistem Castrol Standard

Order : Order No. 78  
Test No. : KURTOGLU ALM.2  
Tested By : HUSEYIN SIMSEK

Date: 23.06.2006

Window sketch :

Dimensions (W x H) : 1.466 m x 1.256 m  
Seal length: 6.422 m Sash area: 1.841 m<sup>2</sup> Window area: 1.173 m<sup>2</sup>

**Description of Test Element**

Window type : SYSTEM CASTLE 17'60 W+  
Opening type : CIPT ACILIM-TILT AND TURN MECHANISM  
Overall Dim. (W x H) : 1.466 x 1.256 m Area : 1.841 m<sup>2</sup>  
Opening Vent (W x H) : 0.540 x 0.990 m Area : 0.535 m<sup>2</sup>  
                                  : 0.580 x 1.100 m Area : 0.638 m<sup>2</sup>  
                                  Total Area : 1.173 m<sup>2</sup>  
Seal length : 6.420 m

**Reference of profiles**

Frame	:17 FW03	Sill Detail	:
Sash	:17 VW02	Transom	:
Mullion	:17 MW03	Glazing bead	:14 GW 19
Sealing	:11A 1404	Drip Bar	:14 PW 02
Hardware	:	Other	:
Material	:ALUMINIUM	Locking	:
Finish	:	Hinges	:

**Glazing**

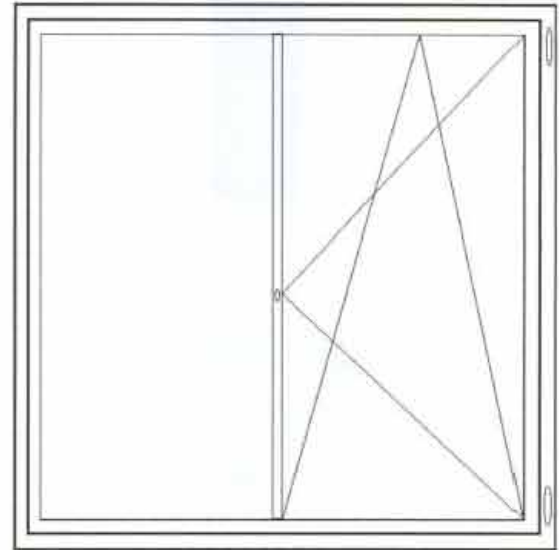
Type	:TEMPER GLASS	Filling	:
Glazing	:6+12+4	Gas area	:
Glass Dim.	:22	Other	:

**Roll shutter box**

Classification (EN 12207;EN 12210; EN 12208)

Dec : Airloss A4 Wind resistance W1 Water tightness RA2  
Est : Airloss A4 Wind resistance W1C Water tightness RA2

Remarks:



Milton Keynes, 23.06.2006 Tested By: 

**Water Tightness EN 1027 : 2000**

Spraying method A	Number of nozzles: 2	Vol. water:	240.0 Litre/Hour
Spraying angle: 24 Degree			: 4.0 Litre/Minute
Add. spraying pipe ( 1.0 Litre/Nozzle)	Number of nozzles: 0	Vol. water:	0.0 Litre/Hour
			: 0.0 Litre/Minute

Pres. Pa	Time	Remarks
0	00:15:00	OK
50	00:05:00	OK
100	00:05:00	OK
150	00:05:00	OK
200	00:05:00	OK
250	00:05:00	OK
300	00:05:00	OK
450	00:05:00	OK
600	00:05:00	OK

Water tightness class: RA3

Point of water ingress :

Probable cause of leakage :



**TEST REPORT**

# SISKOM

Siklon Control Market Test Report

**Airloss EN 1026 : 2003**
Airloss EN 1026:2000

Ambient temperature: 20 Celsius    Ambient humidity : 75 %    Ambient pressure: 10  
 Total area : 1.841 m<sup>2</sup>    length of seal: 6.420 m

Pres. Pa	Total m3h	Window area		Seal length	
		m3/h/m <sup>2</sup>	Class	m3/h/m	Class
50	3.18	1.73	A4	0.50	A3
100	4.68	2.54	A4	0.73	A4
150	6.17	3.35	A4	0.96	A4
200	7.47	4.05	A4	1.16	A4
250	8.58	4.66	A4	1.34	A4
300	9.72	5.28	A4	1.51	A4
450	12.81	6.96	A4	2.00	A4
600	16.92	9.19	A4	2.64	A4
-50	3.26	1.77	A4	0.51	A3
-100	4.54	2.47	A4	0.71	A4
-150	5.76	3.13	A4	0.90	A4
-200	6.81	3.70	A4	1.06	A4
-250	7.77	4.22	A4	1.21	A4
-300	8.58	4.66	A4	1.34	A4
-450	10.72	5.82	A4	1.67	A4
-600	12.32	6.69	A4	1.92	A4

Pressure: A4    Suction: A4

Pres. Pa	m3/h	m3/h/m <sup>2</sup>	Class Area	Difference to 1.Test	m3/h/m	Class Seal Length	Difference to 1.Test
200	8.12	4.41	A4	0.010	1.26	A3	0.003
250	9.12	4.95	A4	0.026	1.41	A3	0.007
300	10.08	5.48	A4	0.049	1.57	A3	0.014
450	12.37	6.72	A4	0.018	1.93	A4	0.005
600	15.36	8.34	A4	0.043	2.39	A4	0.012
-50	3.90	2.12	A3	0.029	0.61	A3	0.008
-100	5.55	3.01	A3	0.029	0.85	A3	0.008
-150	6.89	3.74	A4	0.004	1.07	A3	0.001
-200	8.04	4.36	A4	0.004	1.25	A3	0.001
-250	9.07	4.93	A4	0.018	1.41	A3	0.005
-300	10.10	5.48	A4	0.017	1.57	A3	0.005
-450	12.20	6.63	A4	0.007	1.90	A4	0.002
-600	15.31	8.35	A4	0.033	2.39	A4	0.010

Classification after 2. air permeability: A3

Safety test:

P3 = -3000 Pa / 3000 Pa

Remarks suction :

Remarks pressure :

Class: W5C

## TEST REPORT

ISTANBUL TECHNICAL UNIVERSITY  
MACHINE FACULTYKurtoğlu Bakır Kurşun  
Sanayii A.Ş.Pencere Sistemi Isı Geçiş  
Katsayısı Tayini

Ds No : 06/3322

02.11.2006

Ek 4. Deney Protokolü

## DENEY RAPORU

SICAK ODA YÖNTEMİNE GÖRE  
MALZEMENİN TOPLAM ISI GEÇİŞ KATSAYISININ TAYİNİ

- Deney Yeri . . . . . : İstanbul Teknik Üniversitesi, Makina Fakültesi,  
Isı Tekniği Birimi, Isı Ölçmeleri Laboratuvarı.
- Deneyi İsteyen . . . . . : Kurtoğlu Bakır Kurşun Sanayi A.Ş.  
Hacı Şeremet Mevkii TEM Otayolu Çıkıp Velimeşe Çorlu
- Denenen Malzeme . . . . . : Deneyi isteyen tarafından getirilen ısı yalıtımlı BRL CASTLE 17'66W  
kodlu pencere sistemi. Pencere sistemlerinde kullanılan profillerin  
kesit resimleri Ek 1'de verilmiştir. Denenen numunenin  
boyutları, Ek 2'deki şematik resimde verilmiştir.
- Deney Tesisi . . . . . : Ek 3'de görülmektedir.
- Deneyde Ölçülen  
Değerler . . . . . : Ek 4'deki deney protokolünde verilmiştir.
- Hesap Yöntemi . . . . . : Ölçülen değerler kullanılarak, denenen malzemenin toplam ısı geçiş  
katsayısı hesaplama yöntemi, Ek 5'de açıklanmıştır.
- Deney Sonucu . . . . . :  $K_C$  : çerçevenin toplam ısı geçiş katsayısı,  $W/m^2 K$   
 $K_d$  : ısıcamın toplam ısı geçiş katsayısı,  $W/m^2 K$   
 $K_F$  : pencere sisteminin toplam ısı geçiş katsayısı,  $W/m^2 K$   
olmak üzere, yapılan deneyler sonucunda, aşağıdaki tabloda verilen,  $h$   
ve  $K_C$  değerleri elde edilmiştir. Burada,  $K_d = 3.0 W/m^2 K$  olarak  
alınmıştır.

SICAK ODA SICAKLIĞI °C	SOĞUK ODA SICAKLIĞI °C	$K_F$ $W/m^2 K$	$K_C$ $W/m^2 K$
24.09	3.35	2.76	2.50

Q : Pencere sisteminden geçen ısı, W	57.14	
$T_C$ : soğuk oda sıcaklığı, °C	3.35	
$T_H$ : sıcak oda sıcaklığı, °C	24.09	
Pencerenin sıcak ve soğuk yüzeyleri arasındaki sıcaklık farkı, °C	$T_1$	9.1
	$T_2$	10.1
	$T_3$	10.4
	$T_4$	12.1
	$T_5$	10.0
	$T_6$	9.7
	$T_7$	8.9
	$T_8$	9.2
	$T_9$	8.6

Y.Doç.Dr. Erhan BÖKE

Yukarıdaki imzanın  
Y.Doç.Dr.Erhan BÖKE'ye  
ait olduğu tasdik olunur.

TECHNICAL INFORMATION

The drawings show various cross-sections of window frames. Each drawing includes dimensions for width, height, and depth, as well as specific part numbers for the frame components. The profiles are arranged in a grid-like fashion, with some having multiple views.

**DESCRIPTION**

Pr.Nr.	THEORETICAL WEIGHT kg/ml	Statics		Surfaces	
		Jax (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Painting Surfaces (cm <sup>2</sup> )	Covering Surfaces (cm <sup>2</sup> )
17FW01	1.312	20.289	4.341	38.110	9.187
17FW02	1.646	26.826	12.746	44.762	12.187
17FW03	2.015	38.343	27.108	51.582	15.587
17FW04	2.583	87.901	40.529	62.042	20.827
17FW05	1.439	26.935	5.760	43.486	11.444
17FW06	1.773	35.448	14.291	49.940	14.444
17FW07	2.141	51.599	27.132	56.740	17.844
17FW08	1.186	15.808	2.111	33.110	6.930
17FW09	1.520	21.482	9.359	39.584	9.930
17FW10	1.888	27.888	26.051	46.384	13.330
17FW11	2.456	73.488	37.757	56.864	18.570
17FW13	1.505	32.923	10.718	45.686	12.394

TECHNICAL INFORMATION

**FRAMES**

The drawings show various cross-sections of window frames. Key dimensions include widths (e.g., 25, 40, 57, 62, 79, 83.2, 84, 88, 97, 101, 105.2, 106, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000) and heights (e.g., 66, 88, 110, 132, 154, 176, 198, 220, 242, 264, 286, 308, 330, 352, 374, 396, 418, 438, 458, 478, 498, 518, 538, 558, 578, 598, 618, 638, 658, 678, 698, 718, 738, 758, 778, 798, 818, 838, 858, 878, 898, 918, 938, 958, 978, 998). Component labels include 10200, 10201, 10202, 10203, 10204, 10205, 10230, 10231, 10233, 10272.

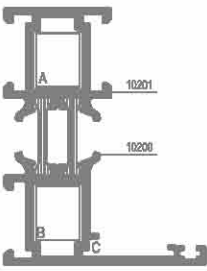

**DESCRIPTION**

Pr.Nr.	THEORETICAL WEIGHT kg/ml	Statics		Surfaces	
		Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Coating Surface (cm <sup>2</sup> )	Cladding Surface (cm <sup>2</sup> )
17FW01	1.312	20.289	4.341	38.110	9.187
17FW02	1.646	26.826	12.746	44.762	12.187
17FW03	2.015	38.343	27.108	51.562	15.587
17FW04	2.583	87.901	40.529	62.042	20.827
17FW05	1.439	26.935	5.760	43.466	11.444
17FW06	1.773	35.448	14.291	49.940	14.444
17FW07	2.141	51.599	27.132	56.740	17.844
17FW08	1.186	15.808	2.111	33.110	6.930
17FW09	1.520	21.482	9.359	39.584	9.930
17FW10	1.888	27.888	26.051	46.384	13.330
17FW11	2.456	73.488	37.757	56.884	18.570
17FW13	1.505	32.923	10.718	45.666	12.394





## b - PROFILE

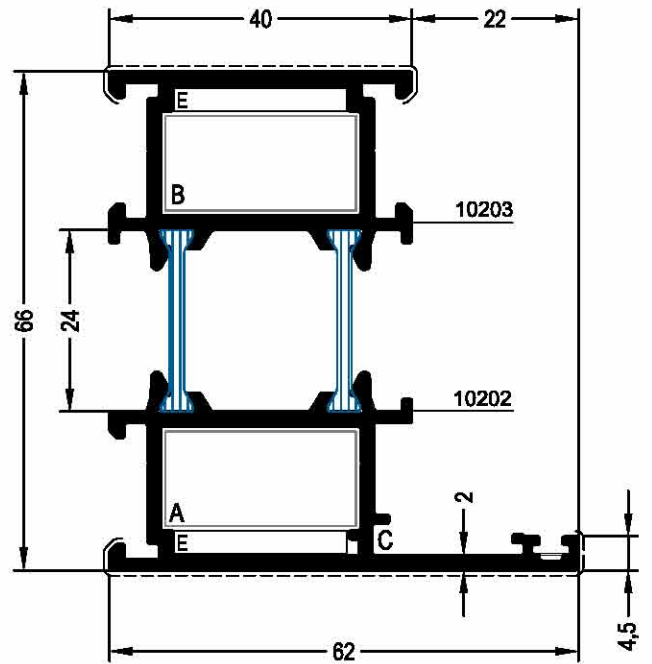
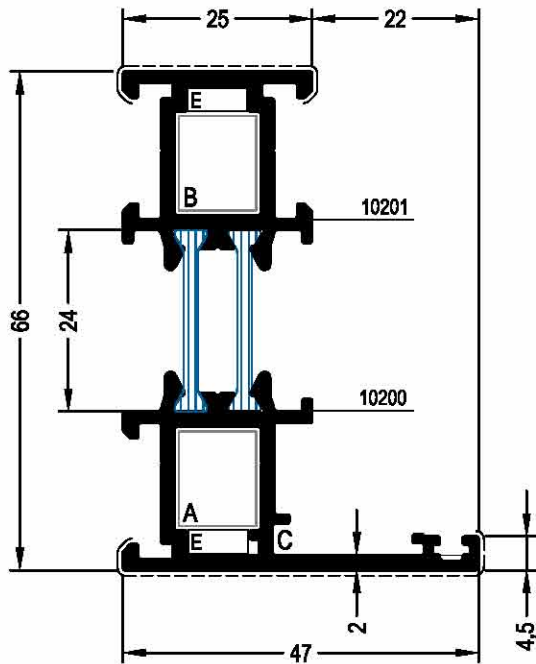
		FRAME PROFILE 25 / 47					
		PROFILE CODE		19FW01		THEORETICAL WEIGHT kg/ml	
				1,364			
J <sub>tot</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Coating Surface (cm)		Coating Surface (cm)			
		10201	10200	10201	10200		
—	—	—	—	—	—		
THERMO BREAK		IMPORT (Polymilka)		909300 (18 mm I)			
		LOCAL (Pao)		—			
CORNER CLEATS		A	B	C	D		
PRESS CORNER				—			
DE-CAST CORNER JOINT				M.f.j  2000			
STEEL CORNER JOINT				—			

\* The weights are theoretical of presed profiles.

\* When profiles are powder coated weight may increase by % 4 .

\* Unless otherwise indicated , all dimensions in this catalogue are  $\pm 0.1$  mm and weights may vary by % 4 .

FRAMES





FRAME PROFILE 25 / 47



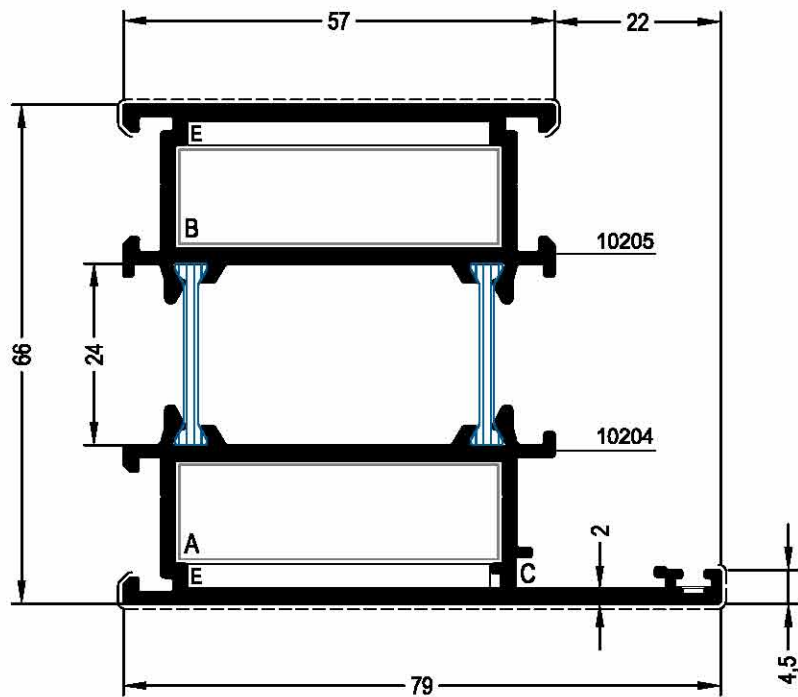
FRAME PROFILE 40 / 62



PROFILE CODE		19FW01		THEORETICAL WEIGHT kg/mt		1.364		PROFILE CODE		19FW02		THEORETICAL WEIGHT kg/mt		1.695	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)				J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)							
		10201		10200				10203		10202					
20.289	4.341	3.465		5.722		26.826	12.746	4.965		7.222					
THERMO BREAK		LOCAL (Pvc)				---		THERMO BREAK		LOCAL (Pvc)				---	
CORNER CLEATS		A	B	C	D	E	CORNER CLEATS		A	B	C	D	E		
PRESS CORNER		14LW14	14LW14	---	---	---	PRESS CORNER		14LW32	14LW32	---	---	---		
DIE-CAST CORNER JOINT		---	----	M.fuji 2000	---	---	DIE-CAST CORNER JOINT		----	---	M.fuji 2000	---	----		
P.V.C. CORNER JOINT		---	----	---	---	P.V.C.	P.V.C. CORNER JOINT		----	---	---	----	P.V.C.		

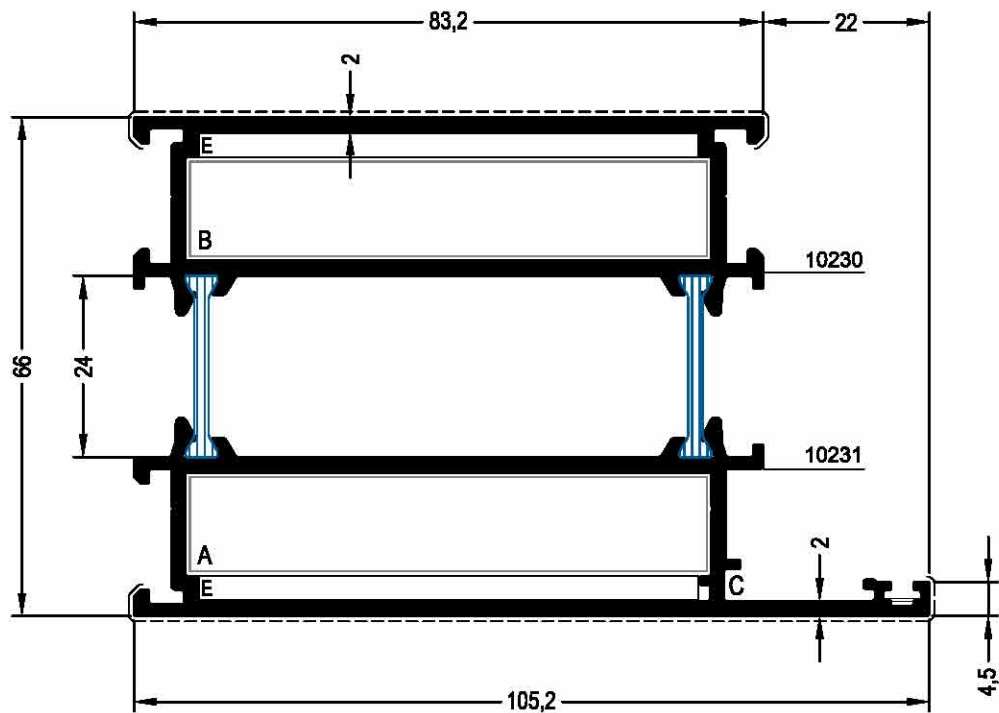


FRAMES



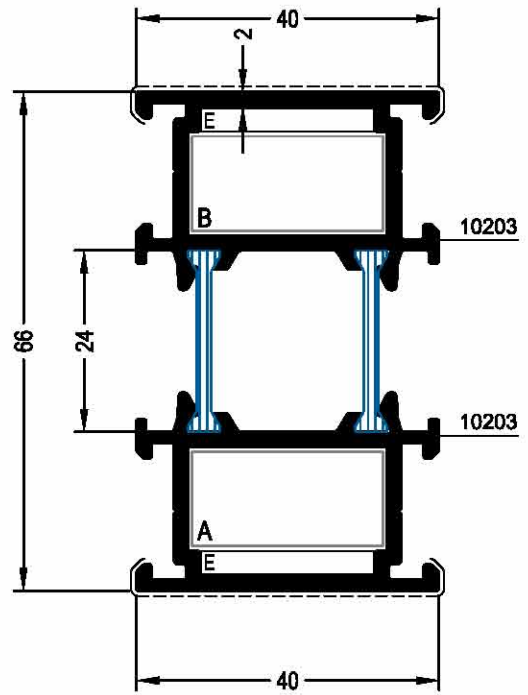
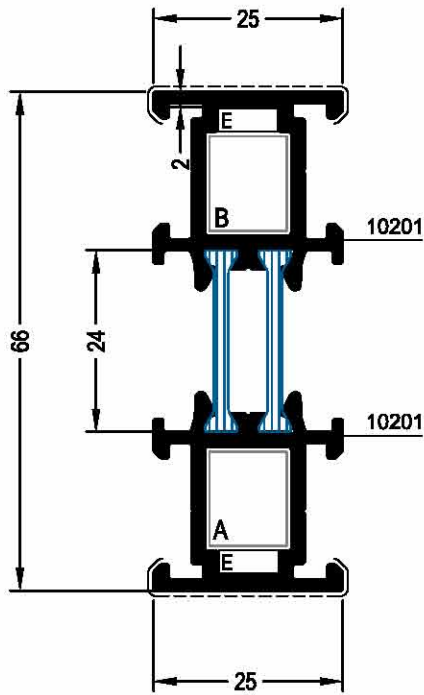
FRAME PROFILE		57 / 79				
PROFILE CODE		19FW03		THEORETICAL WEIGHT kg/mt		
				2.064		
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)				
		10205	10204			
38.343	27.108	6.665	8.922			
THERMO BREAK		LOCAL (Pvc)				
		—				
CORNER CLEATS		A	B	C	D	E
PRESS CORNER		14LW33	14LW33	—	—	—
DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—	—
P.V.C. CORNER JOINT		—	—	—	—	P.V.C.

FRAMES



FRAME PROFILE		83.2 / 105.2				
PROFILE CODE		19FW04		THEORETICAL WEIGHT kg/mt		
				2.630		
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)				
		10230	10231			
87.901	40.529	9.285	11.542			
THERMO BREAK		LOCAL (Pvc)				
		—				
CORNER CLEATS		A	B	C	D	E
PRESS CORNER		14LW34	14LW34	—	—	—
DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—	—
P.V.C. CORNER JOINT		—	—	—	—	P.V.C.

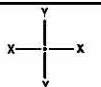
FRAMES



FRAME PROFILE 25 / 25



FRAME PROFILE 40 / 40



PROFILE CODE

19FW08

THEORETICAL WEIGHT kg/mt  
1.237

PROFILE CODE

19FW09

THEORETICAL WEIGHT kg/mt  
1.571

Jxx (cm<sup>4</sup>)

Jyy (cm<sup>4</sup>)

Covering Surface (cm)

10201

10201

15.808

2.111

3.465

3.465

THERMO BREAK

LOCAL (Pvc)

—

Jxx (cm<sup>4</sup>)

Jyy (cm<sup>4</sup>)

Covering Surface (cm)

10203

10203

21.482

9.359

4.965

4.965

THERMO BREAK

LOCAL (Pvc)

—

T JUNCTION



A

B

C

14JW04

14JW04

—

CORNER CLEATS



A

B

C

14LW14

14LW14

—

T JUNCTION



A

B

C

14JW04

14JW04

—

CORNER CLEATS



A

B

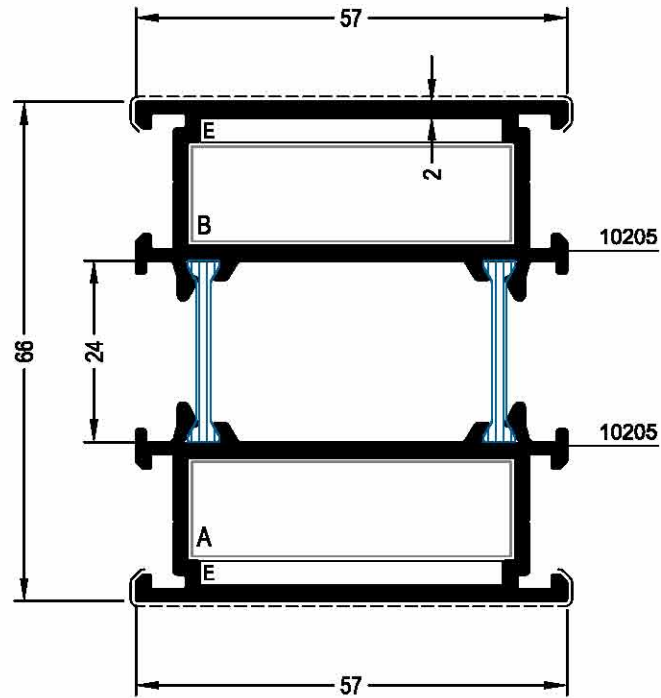
C

14LW32

14LW32

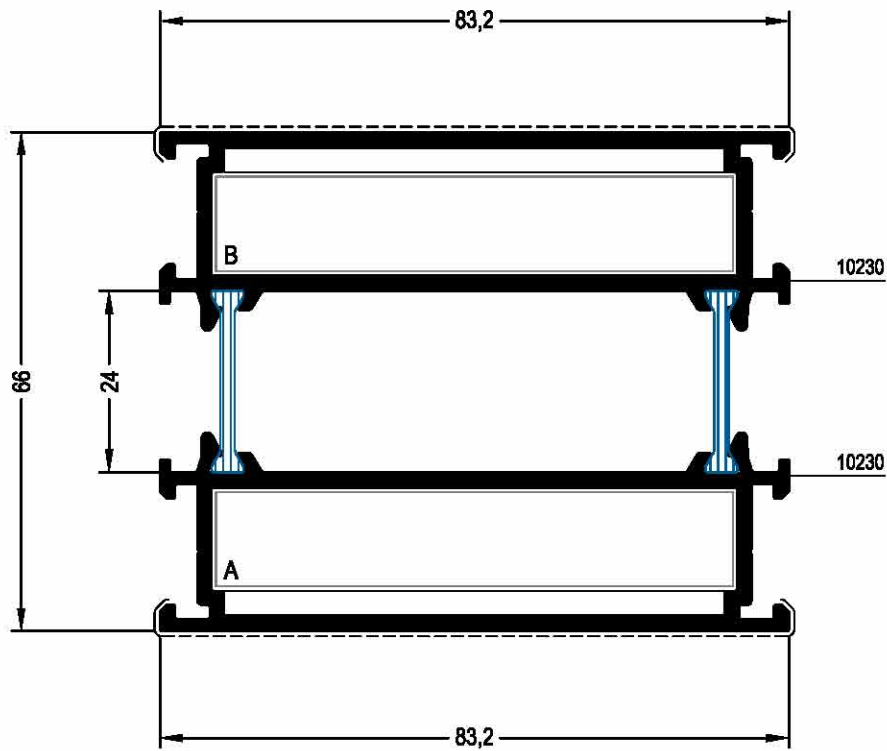
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FRAMES



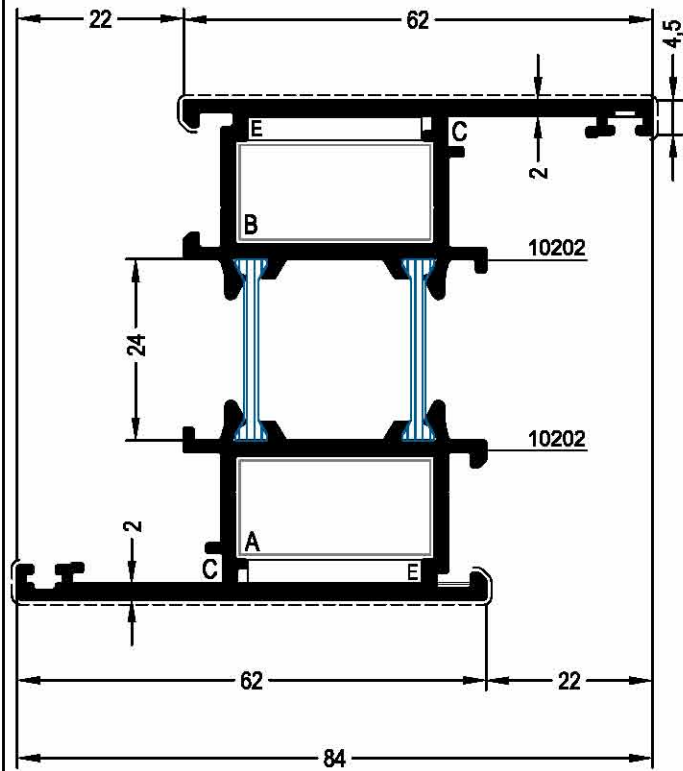
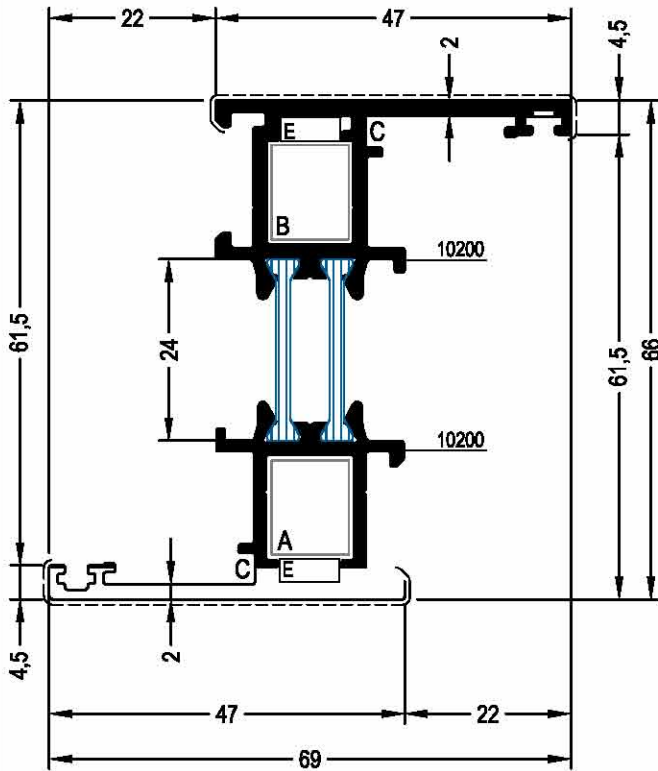
FRAME PROFILE		57 / 57			
PROFILE CODE		19FW10		THEORETICAL WEIGHT kg/mt	
				1.940	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10205		10205	
27.888	26.051	6.665	6.665		
THERMO BREAK		LOCAL (Pvc)			
		—			
T JUNCTION		A	B	C	
		14JW04	14JW04	—	
CORNER CLEATS		A	B	C	
		14LW33	14LW33	—	

FRAMES



FRAME PROFILE		83.2 / 83.2			
PROFILE CODE		19FW11		THEORETICAL WEIGHT kg/mt	
				2.504	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10230		10230	
73.488	37.757	9.285		9.285	
THERMO BREAK		LOCAL (Pvc)			
		—			
T JUNCTION		A	B	C	
		14JW04	14JW04	—	
CORNER CLEATS		A	B	C	
		14LW34	14LW34	—	

FRAMES



FRAME PROFILE 47 / 47

FRAME PROFILE 62 / 62

PROFILE CODE

19FW05

THEORETICAL WEIGHT kg/mt  
1.490

PROFILE CODE

19FW06

THEORETICAL WEIGHT kg/mt  
1.819

J<sub>xx</sub> (cm<sup>4</sup>)  
26.935

J<sub>yy</sub> (cm<sup>4</sup>)  
5.760

Covering Surface (cm)

10200

10200

5.722

5.722

J<sub>xx</sub> (cm<sup>4</sup>)  
35.448

J<sub>yy</sub> (cm<sup>4</sup>)  
14.291

Covering Surface (cm)

10202

10202

7.222

7.222

THERMO BREAK

LOCAL (Pvc)

—

THERMO BREAK

LOCAL (Pvc)

—

CORNER CLEATS

A

B

C

D

E

CORNER CLEATS

A

B

C

D

E

PRESS CORNER

14LW14

14LW14

-----

-----

—

PRESS CORNER

14LW32

14LW32

—

—

—

DIE-CAST CORNER JOINT

—

—

M.fuji 2000

-----

—

DIE-CAST CORNER JOINT

—

-----

M.fuji 2000

—

—

P.V.C. CORNER JOINT

—

—

-----

—

P.V.C.

P.V.C. CORNER JOINT

—

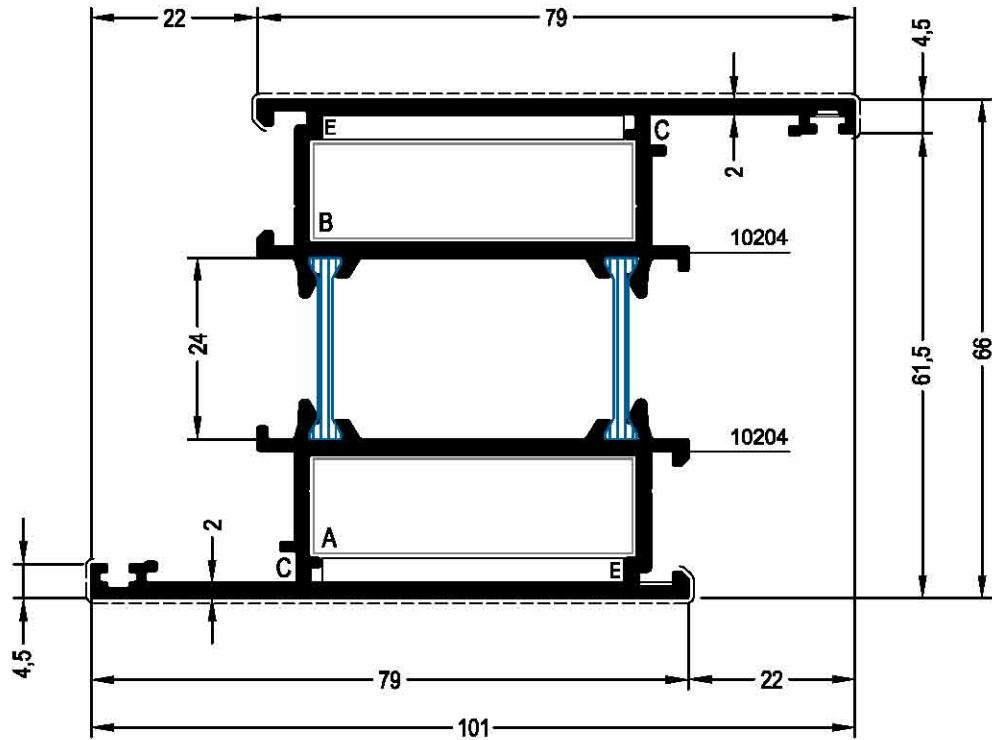
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—

—

P.V.C.

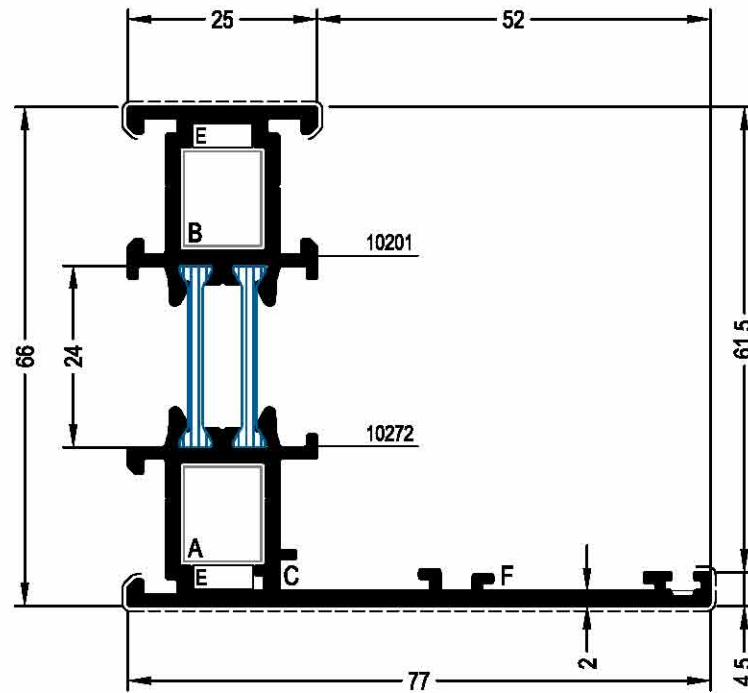
FRAMES



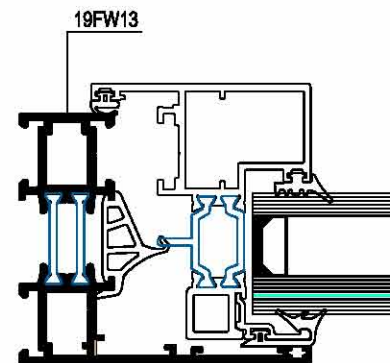
FRAME PROFILE		79 / 79				
PROFILE CODE		19FW07		THEORETICAL WEIGHT kg/mt		
				2.188		
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)				
		10204		10204		
51.599	27.132	8.922		8.922		
THERMO BREAK		LOCAL (Pvc)				
		—				
CORNER CLEATS		A	B	C	D	E
PRESS CORNER		14LW33	14LW33	—	—	—
DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—	—
P.V.C. CORNER JOINT		—	—	—	—	P.V.C.



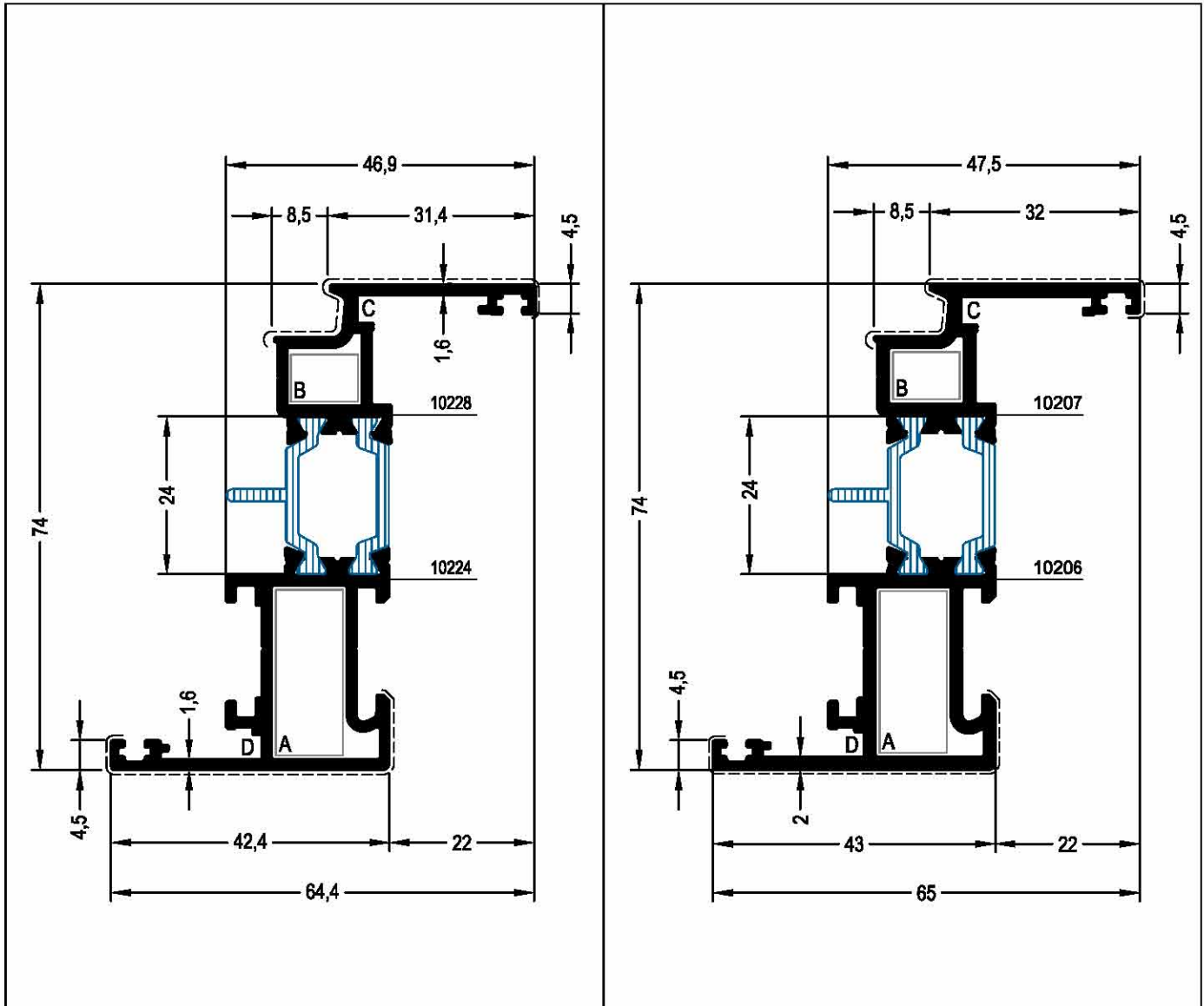
FRAMES





FRAME PROFILE		25 / 77					
PROFILE CODE		19FW13					THEORETICAL WEIGHT kg/mt
				1.555			
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)					
		10201	10272				
32.923	10.718	3.465	8.929				
THERMO BREAK		LOCAL (Pvc)		—			
CORNER CLEATS		A	B	C	D	E	F
PRESS CORNER		14LW14	14LW14	—	—	—	—
DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—	—	STEEL
P.V.C. CORNER JOINT		—	—	—	—	P.V.C.	—

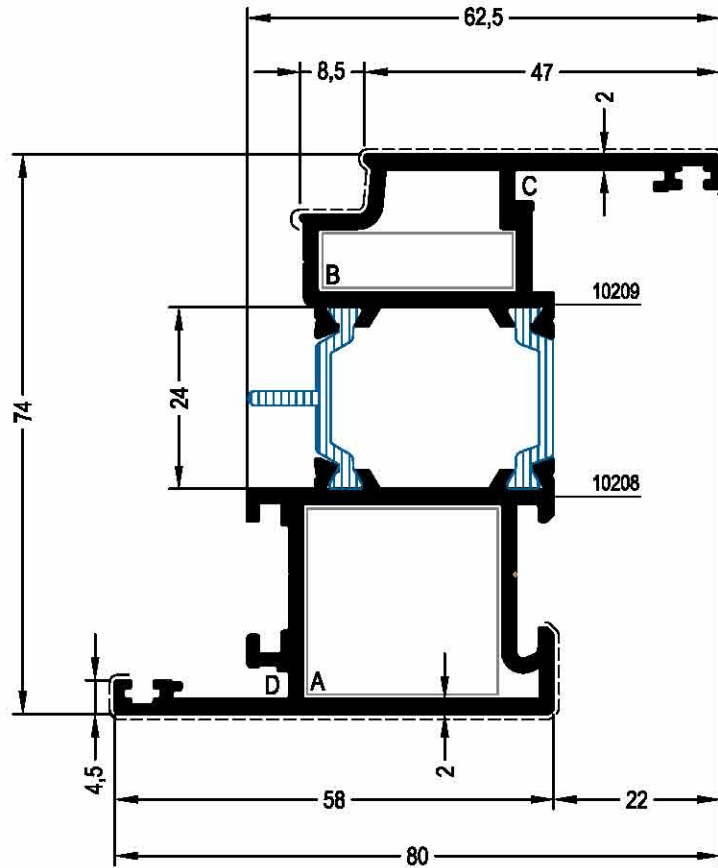


VENTS



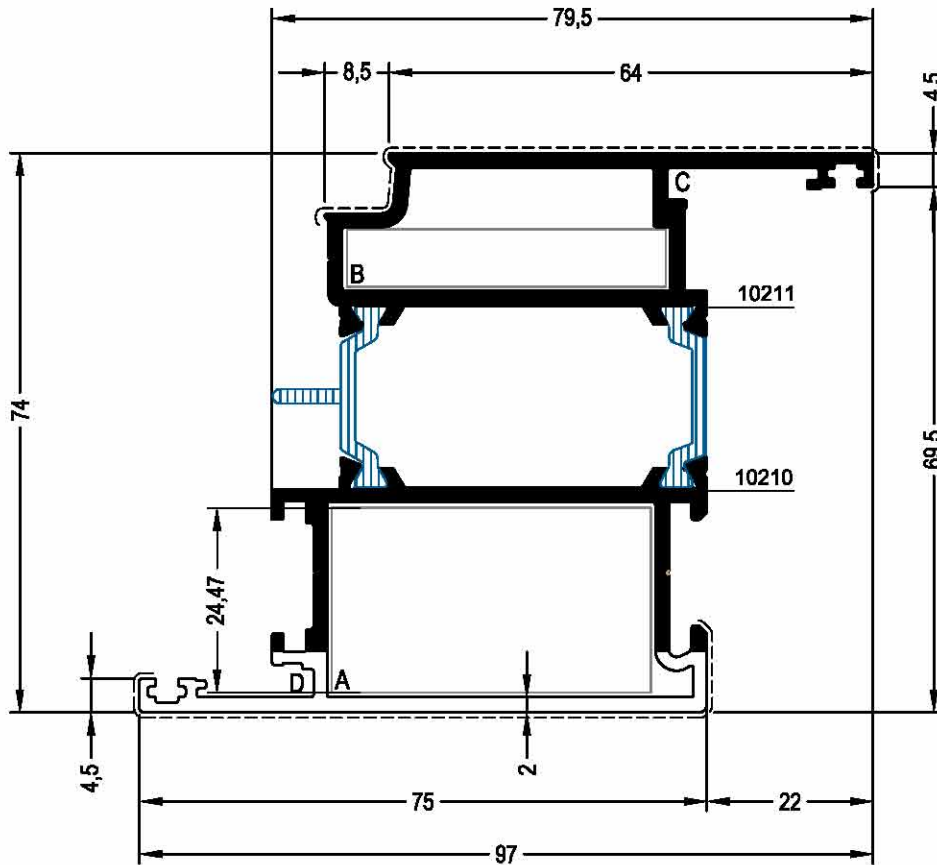
VENT PROFILE 42.4				VENT PROFILE 43							
PROFILE CODE		19VW07		PROFILE CODE		19VW01					
		THEORETICAL WEIGHT kg/mt				THEORETICAL WEIGHT kg/mt					
		1.398				1.547					
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)				J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10228	10224					10207	10206		
29.074	4.753	5.999	6.029			32.907	5.386	6.156	6.089		
THERMO BREAK		LOCAL (Pvc)		THERMO BREAK		LOCAL (Pvc)					
CORNER CLEATS		A	B	C	D	CORNER CLEATS		A	B	C	D
PRESS CORNER		14LW14	14LW14	—	—	PRESS CORNER		14LW14	14LW14	—	—
DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—	DIE-CAST CORNER JOINT		—	—	M.fuji 2000	—
P.V.C. CORNER JOINT		—	—	—	MO 20	P.V.C. CORNER JOINT		—	—	—	MO 20

VENTS



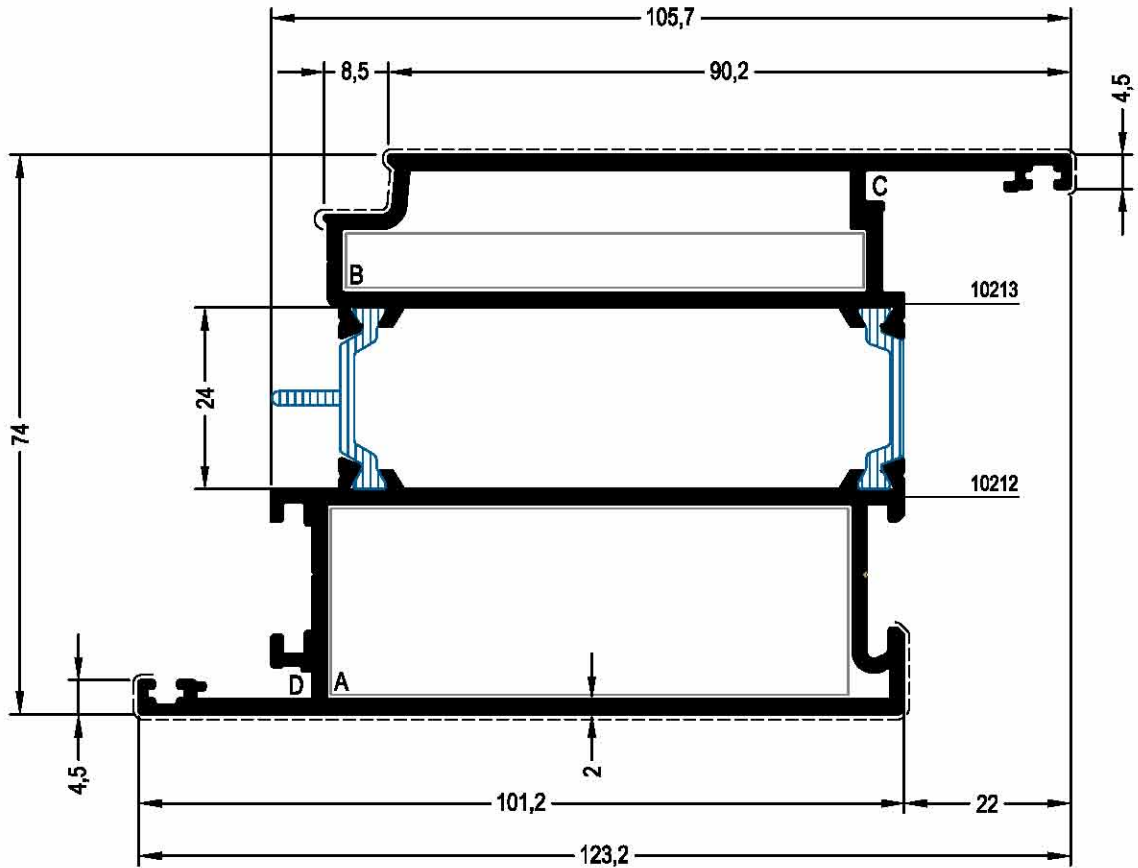
VENT PROFILE 58			
PROFILE CODE		19VW02	
		THEORETICAL WEIGHT kg/mt	
		1.898	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)	
		10209	10208
59.930	20.865	7.410	7.739
THERMO BREAK		LOCAL (Pvc)	
		---	
CORNER CLEATS		A	B
		C	D
PRESS CORNER		14LW32	14LW32
		----	----
DIE-CAST CORNER JOINT		---	M.fuji 2000
		---	---
P.V.C. CORNER JOINT		---	MO 20
		---	---

INSIDE OPENING VENT PROFILES



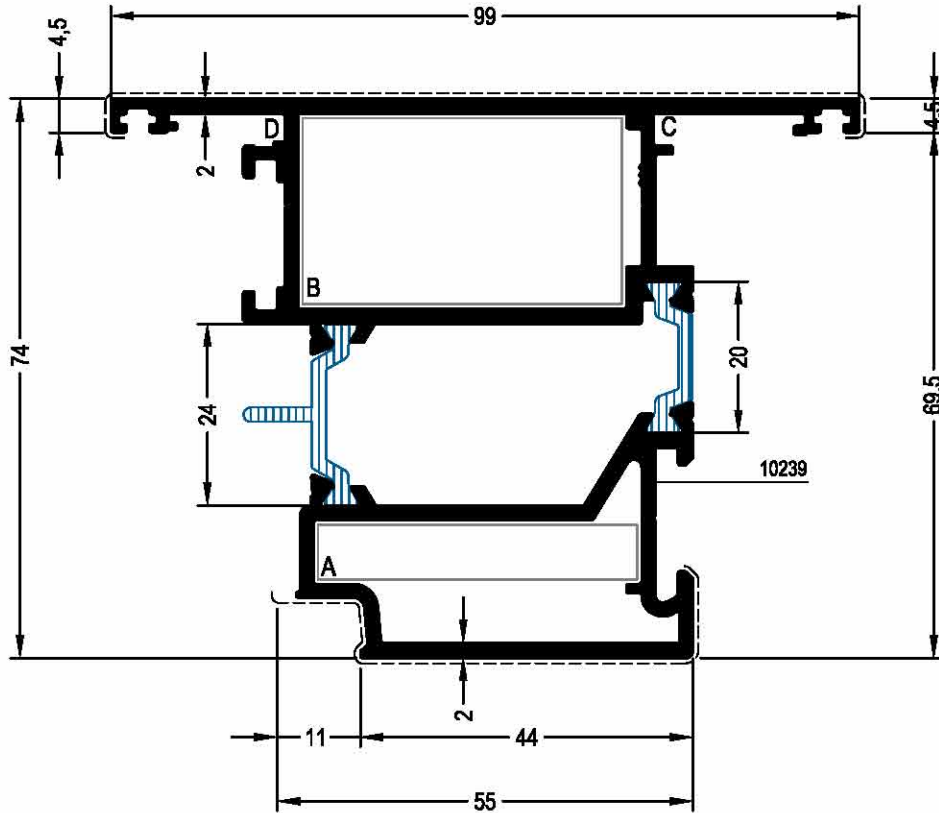
VENT PROFILE 75			
PROFILE CODE		19VW03	
		THEORETICAL WEIGHT kg/m	
		2.266	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)	
		10211	10210
60.166	30.842	9.110	9.439
THERMO BREAK		LOCAL (Pvc) —	
CORNER CLEATS		A	B C D
PRESS CORNER		14LW33	14LW33 — —
DIE-CAST CORNER JOINT		—	— M.fuji 2000 —
P.V.C. CORNER JOINT		—	— — MO 20

INSIDE OPENING VENT PROFILES



INSIDE OPENING VENT PROFILE 101.2			
PROFILE CODE		19VW04	
		THEORETICAL WEIGHT kg/mt	
		2.835	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)	
		10213	10212
52.031	114.999	11.647	12.059
THERMO BREAK		LOCAL (Pvc) -----	
CORNER CLEATS		A	B C D
PRESS CORNER		14LW34	14LW34 — —
DIE-CAST CORNER JOINT		—	— M.fuji 2000 —
P.V.C. CORNER JOINT		—	— — MO 20

OUTSIDE OPENING VENT PROFILES

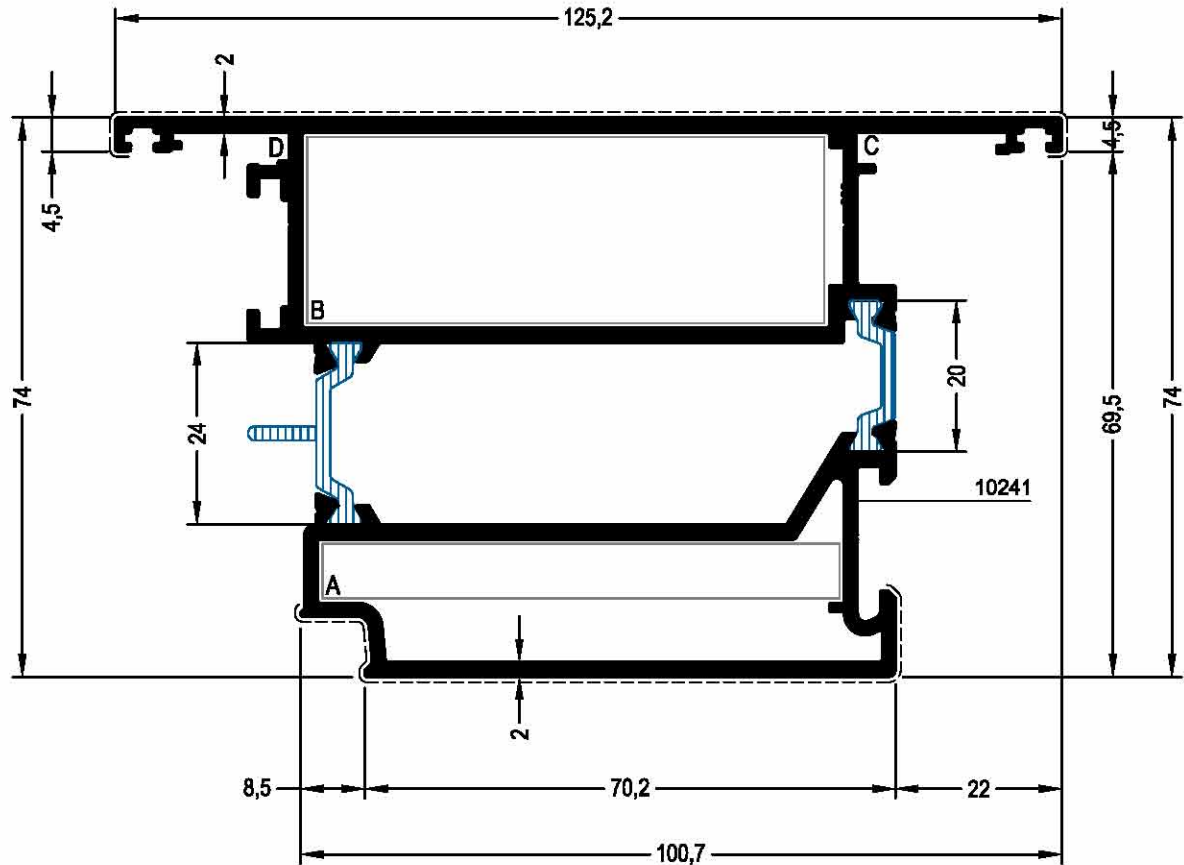


OUTSIDE OPENING VENT PROFILE 44



PROFILE CODE		19VW05		THEORETICAL WEIGHT kg/mt	
				2.381	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10240	10239		
49.750	44.641	11.279	7.675		
THERMO BREAK		LOCAL (Pvc)		—	
CORNER CLEATS		A	B	C	D
PRESS CORNER		14LW33	14LW33	—	—
DIE-CAST CORNER JOINT		----	----	M.fuji 2000	—
P.V.C. CORNER JOINT		----	----	—	MO 20

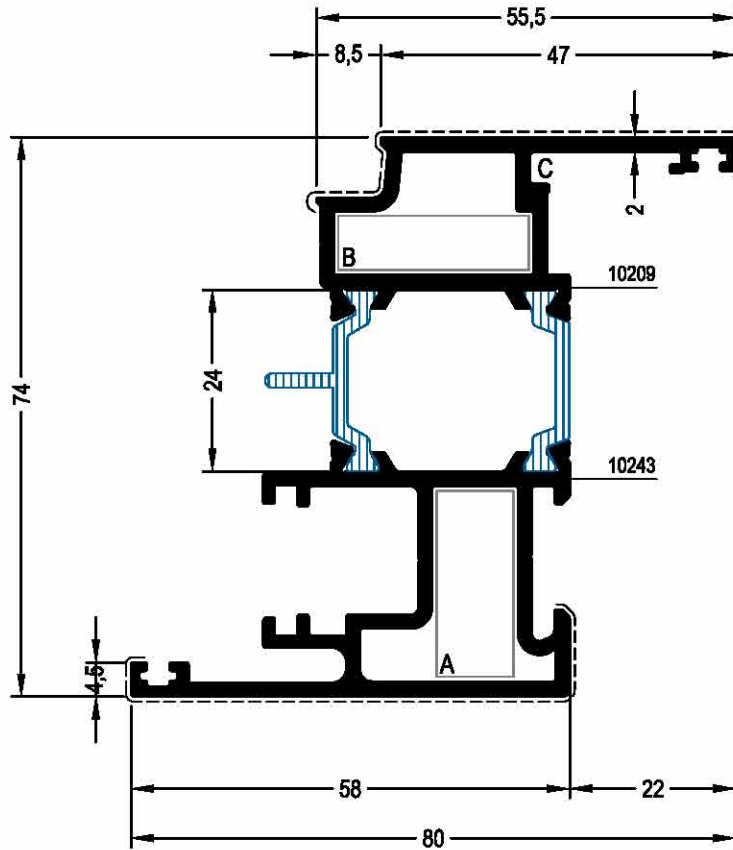
OUTSIDE OPENING VENT PROFILES



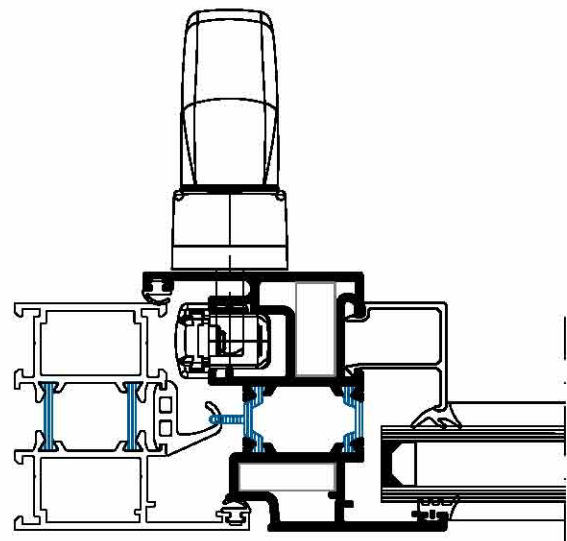
OUTSIDE OPENING VENT PROFILE 70.2					
PROFILE CODE		19VW06		THEORETICAL WEIGHT kg/mt	
				2.952	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface ( cm )			
		10242	10241		
59.304	114.659	13.899	10.357		
THERMO BREAK		LOCAL (Pvc)			
		---			
CORNER CLEATS		A	B	C	D
PRESS CORNER		14LW34	14LW34	----	---
DIE-CAST CORNER JOINT		---	----	M.fuji 2000	---
P.V.C. CORNER JOINT		---	----	---	MO 20



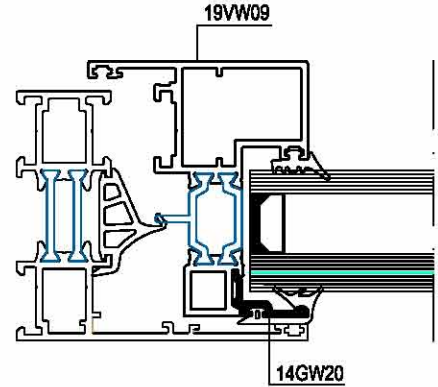
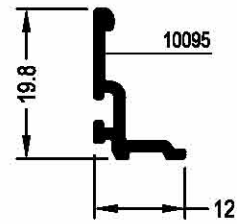
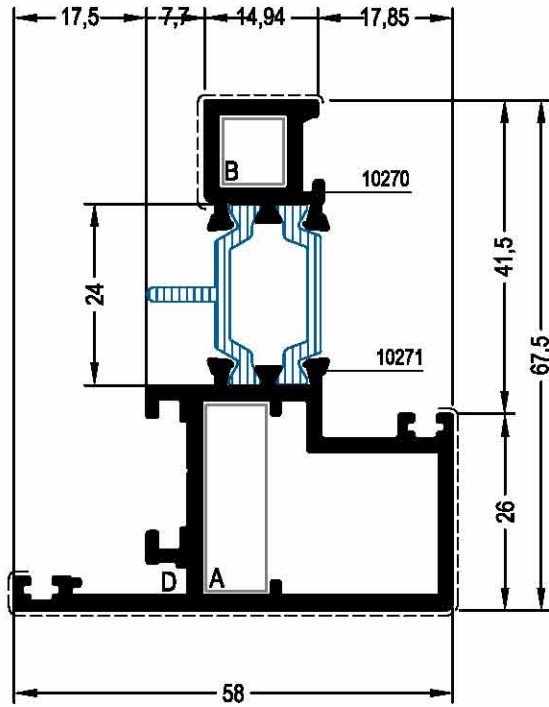
VENTS



VENT PROFILE 58			
PROFILE CODE		19VW08	
		THEORETICAL WEIGHT kg/mt	
		1.960	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		10209	10243
43.773	14.745	7.410	7.797
THERMO BREAK		LOCAL (Pvc)	
		---	
CORNER CLEATS		A	B
		C	D
PRESS CORNER		14LW14	14LW32
DIE-CAST CORNER JOINT		---	M.fuji 2000
P.V.C. CORNER JOINT		---	---



VENTS

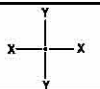


VENT PROFILE 58



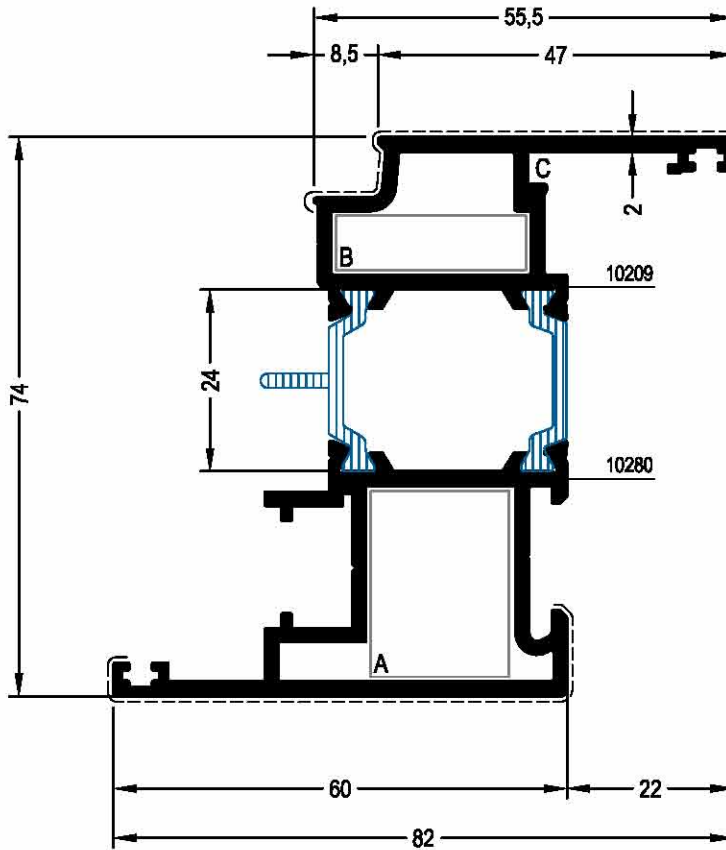
PROFILE CODE		19VW09		THEORETICAL WEIGHT kg/mt	
				1.447	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10270	10271		
21.938	9.398	3.246	9.307		
THERMO BREAK		LOCAL (Pvc)		---	
CORNER CLEATS		A	B	C	D
PRESS CORNER		14LW45	14LW45	---	---
DIE-CAST CORNER JOINT		---	---	---	---
P.V.C. CORNER JOINT		---	---	---	MO 20

GLAZING BEAD 12 / 19.8



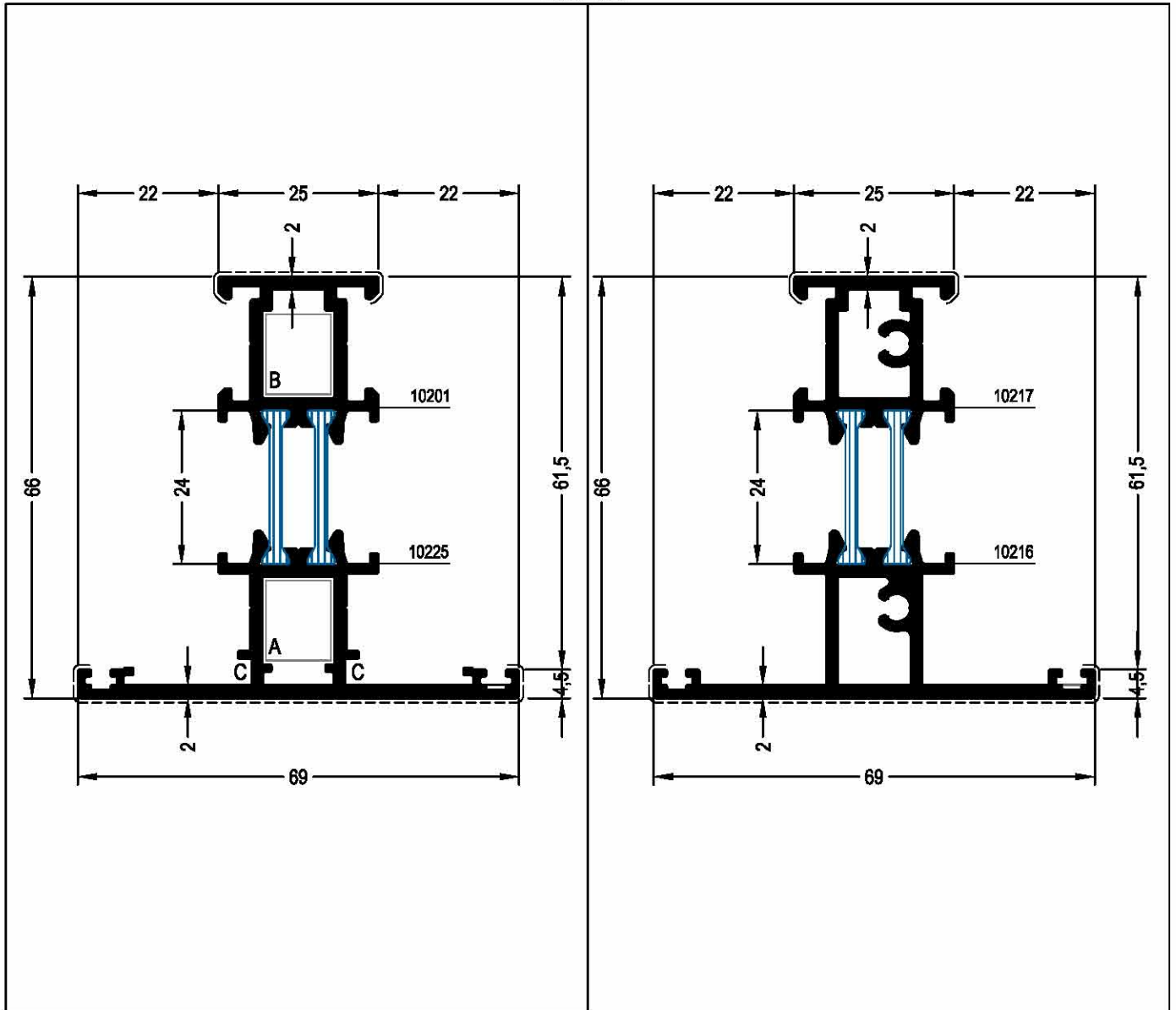
PROFILE CODE		14GW20		THEORETICAL WEIGHT kg/mt	
				0.132	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10095			
---	---	---			

VENTS for P.V.C. ACCESSORIES



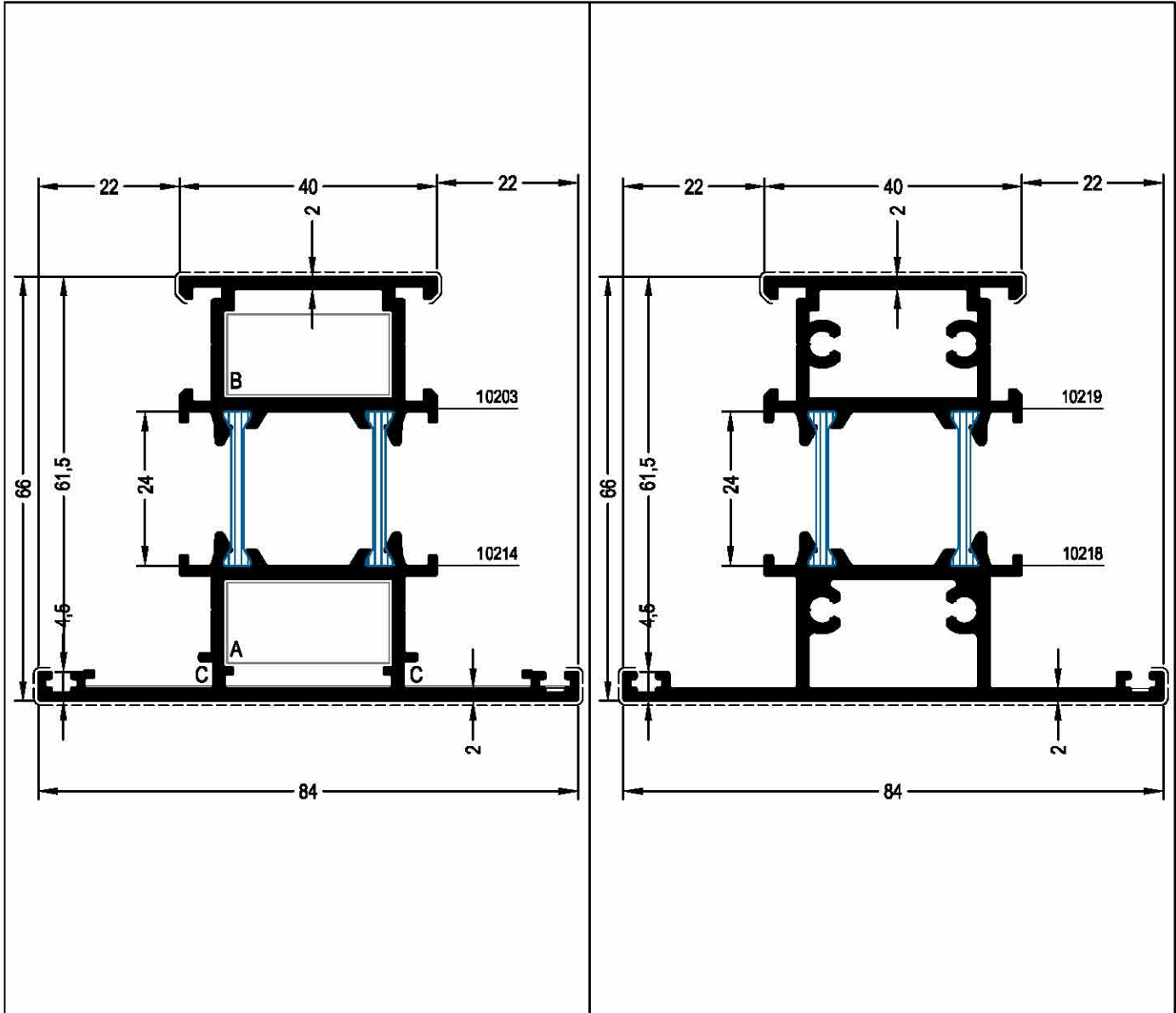
VENT PROFILE 60			
PROFILE CODE		19VW11	
		THEORETICAL WEIGHT kg/mt	
		1.930	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		10209	10280
44.486	14.826	7.410	7.997
THERMO BREAK		LOCAL (Pvc) —	
CORNER CLEATS		A	B
PRESS CORNER		14LW35	14LW32
DIE-CAST CORNER JOINT		—	M.fuji 2000
P.V.C. CORNER JOINT		—	—

MULLION



TRANSOM MULLION PROFILE				25 / 69			
PROFILE CODE		19MW01		THEORETICAL WEIGHT kg/mt		1.499	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)				TRANSOM MULLION PROFILE	
		10201	10225			25 / 69	
22.760	8.590	3.465	8.279				
THERMO BREAK		LOCAL (Pvc)		—		THEORETICAL WEIGHT kg/mt	
						1.570	
T JUNCTION		A	B	C	J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)
		14JW05	14JW04	—			10217
		14LW14	14LW14	M.fuji 2000	23.864	8.636	10216
CORNER CLEATS							THERMO BREAK
							LOCAL (Pvc)
							—

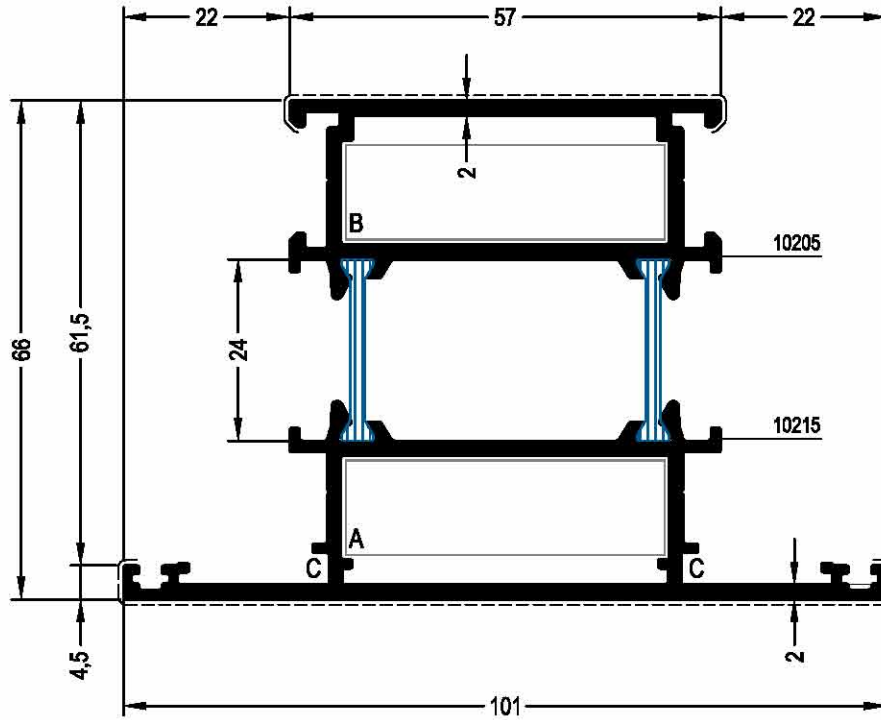
MULLION





TRANSOM MULLION PROFILE 40 / 84					
PROFILE CODE		19MW02		THEORETICAL WEIGHT kg/mt	
				1.834	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10203		10214	
28.683	20.061	4.965	9.779		
THERMO BREAK		LOCAL (Pvc)			
T JUNCTION		A	B	C	
		14JW05	14JW04	—	
CORNER CLEATS		A	B	C	
		14LW32	14LW32	M.fuji 2000	

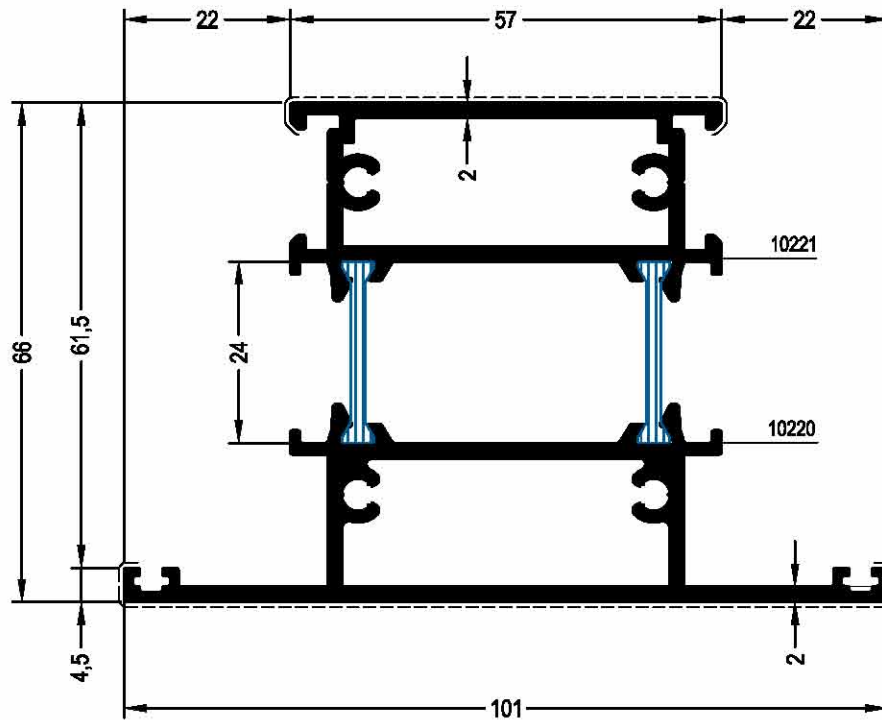
TRANSOM MULLION PROFILE 40 / 84					
PROFILE CODE		19MW05		THEORETICAL WEIGHT kg/mt	
				2.007	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10219		10218	
30.945	21.025	4.965	9.779		
THERMO BREAK		LOCAL (Pvc)			
		—			

MULLION



TRANSOM MULLION PROFILE 57 / 101				
PROFILE CODE		19MW03		THEORETICAL WEIGHT kg/mt
				2.202
$J_{xx}$ (cm <sup>4</sup> )	$J_{yy}$ (cm <sup>4</sup> )	Covering Surface (cm)		
		10205	10215	
42.758	35.277	6.665	11.479	
THERMO BREAK		LOCAL (Pvc)		
		—		
T JUNCTION		A	B	C
		14JW05	14JW04	—
CORNER CLEATS		A	B	C
		14LW33	14LW33	M.fuji 2000

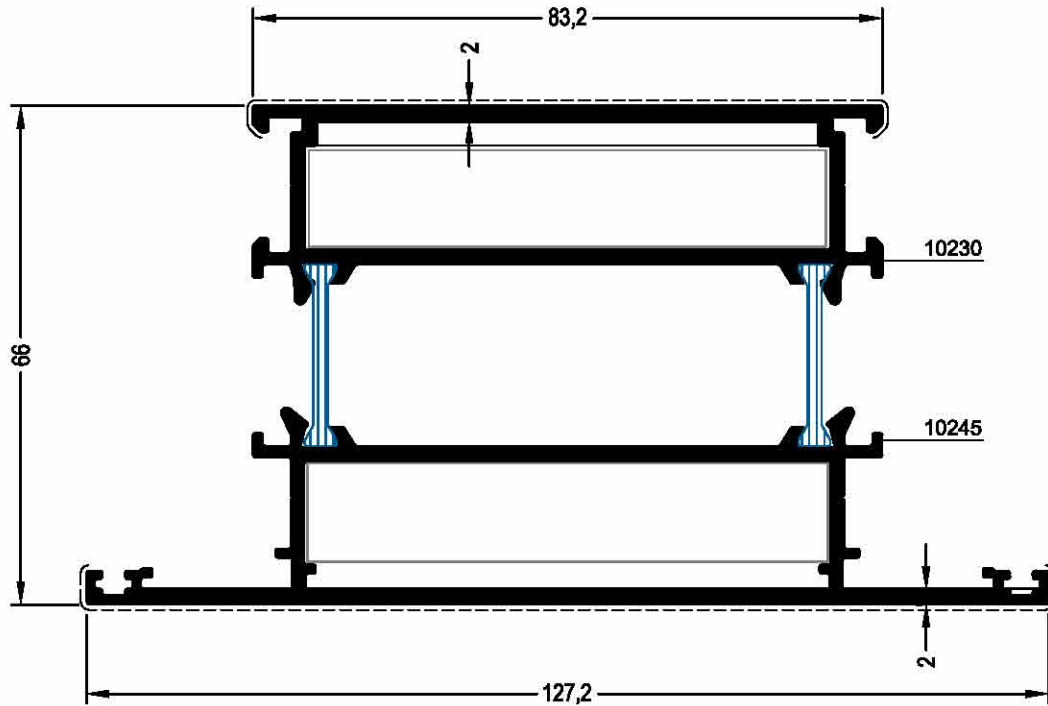
MULLION



TRANSOM MULLION PROFILE 57 / 101			
PROFILE CODE		19MW06	
		THEORETICAL WEIGHT kg/mt	
		2.375	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		10221	10220
45.532	37.493	6.665	11.479
THERMO BREAK		LOCAL (Pvc)	
		—	

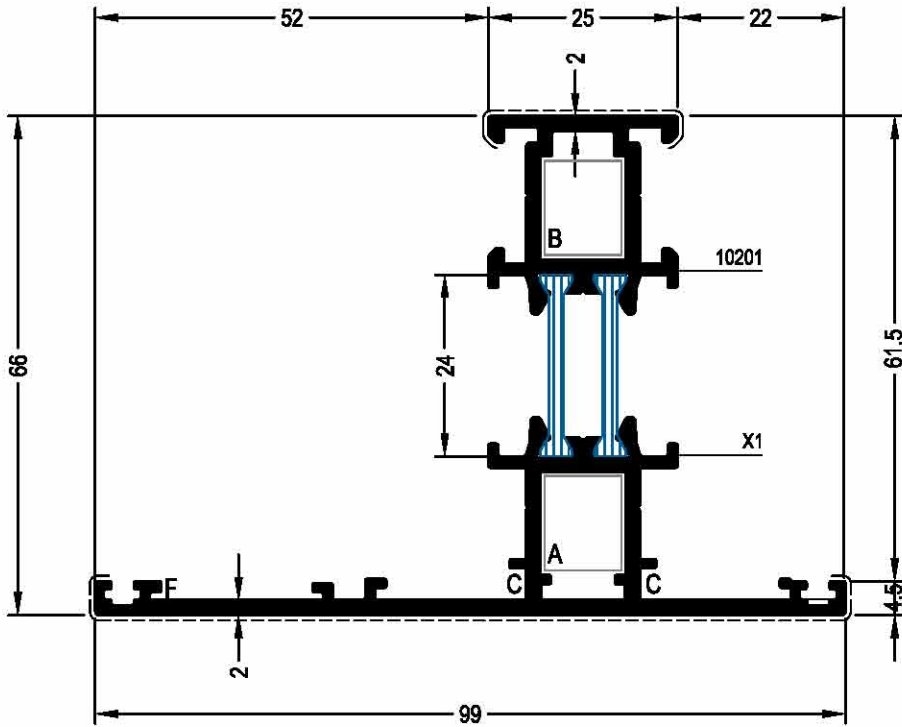


MULLION

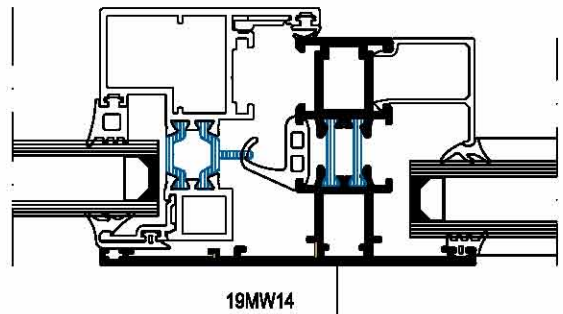


TRANSOM MULLION PROFILE		86 / 130			
PROFILE CODE		19MW07		THEORETICAL WEIGHT kg/mt	
				2.768	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)			
		10244	10245		
46.415	110.679	9.565	14.379		
THERMO BREAK		LOCAL (Pvc)		—	
T JUNCTION		A	B	C	
		14JW05	14JW04	—	
CORNER CLEATS		A	B	C	
		14LW34	14LW34	M.fuji 2000	

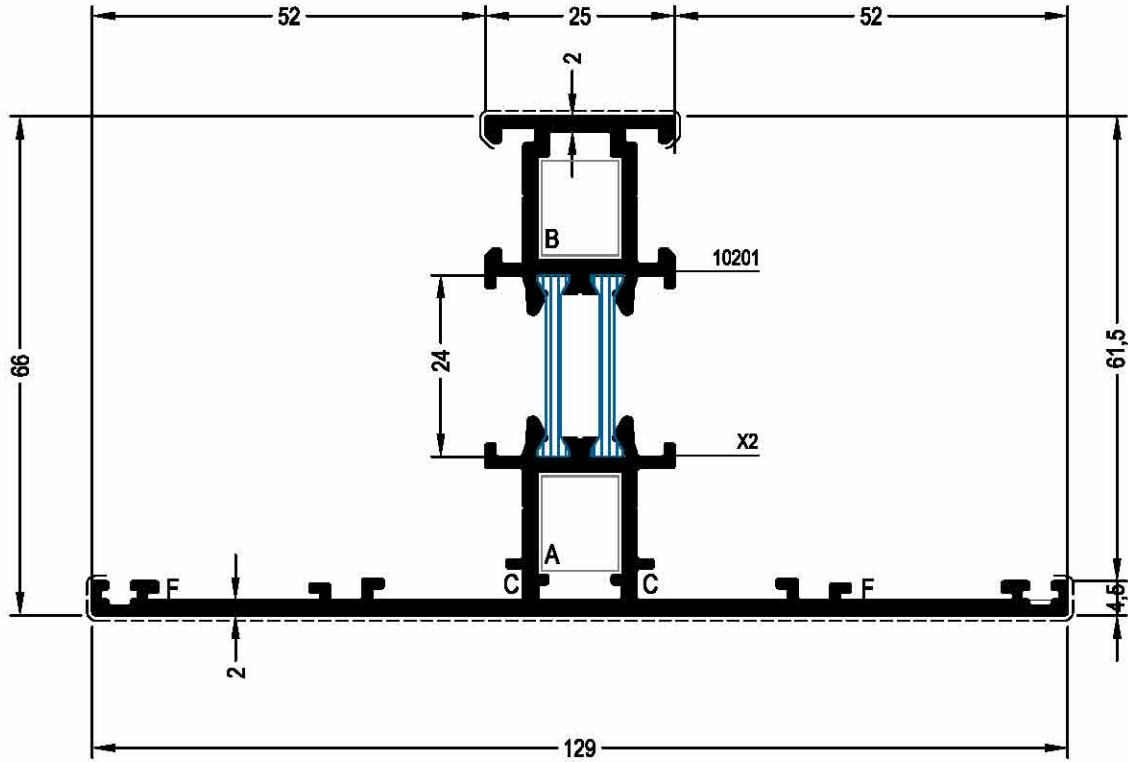
MULLION





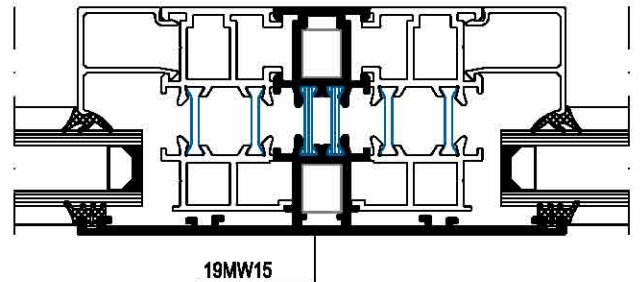
TRANSOM MULLION PROFILE 25 / 99						
PROFILE CODE		19MW14		THEORETICAL WEIGHT kg/mt		
				1.695		
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)				
		10201	X1			
33.114	18.308	3.465	11.299			
THERMO BREAK		LOCAL (Pvc) -----				
T JUNCTION		A	B	C		
		14JW05	14JW04	—	—	
CORNER CLEATS		A	B	C	F	
		14LW14	14LW14	M.fuji 2000	STEEL	



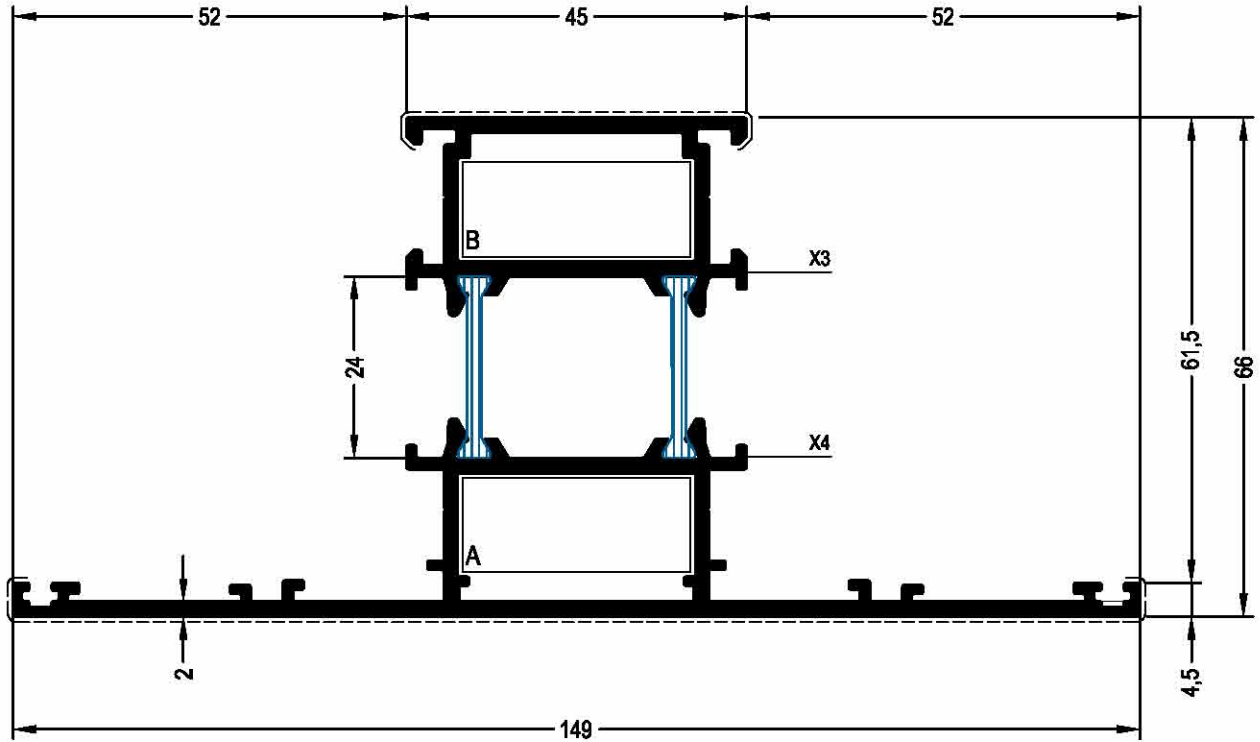
MULLION



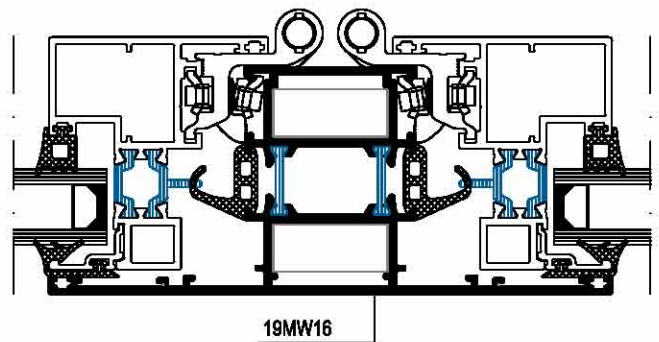
TRANSOM MULLION PROFILE 25 / 129				
PROFILE CODE		19MW15		THEORETICAL WEIGHT kg/mt
				1.885
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)		
		10201	X2	
45.113	29.198	3.465	14.278	
THERMO BREAK		LOCAL (Pvc)		
		----		
T JUNCTION		A	B	C
		14JW05	14JW04	—
CORNER CLEATS		A	B	C
		14LW14	14LW14	M.fuji 2000
				STEEL



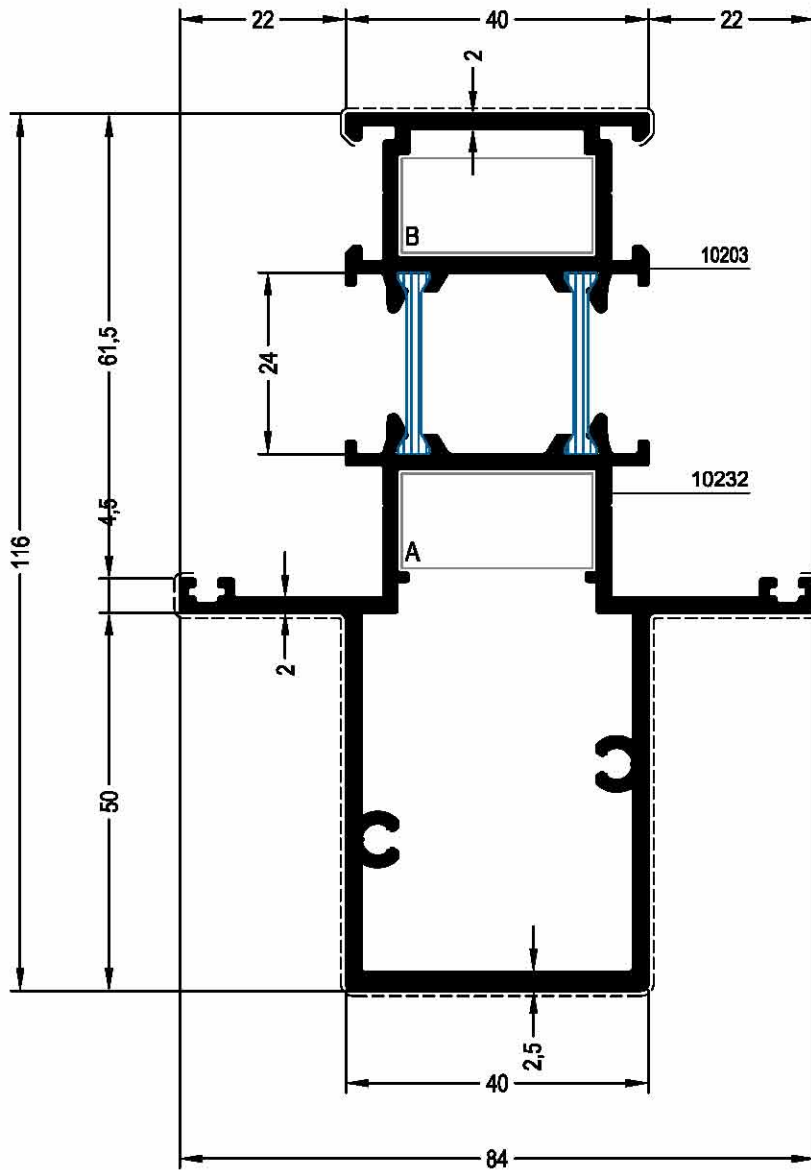
MULLION




TRANSOM MULLION PROFILE 45 / 149			
PROFILE CODE		19MW16	
		THEORETICAL WEIGHT kg/mt	
		2.323	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		X3	X4
77.666	37.979	5.465	16.278
THERMO BREAK		LOCAL (Pvc)	
T JUNCTION		A	B
		14JW05	14JW04

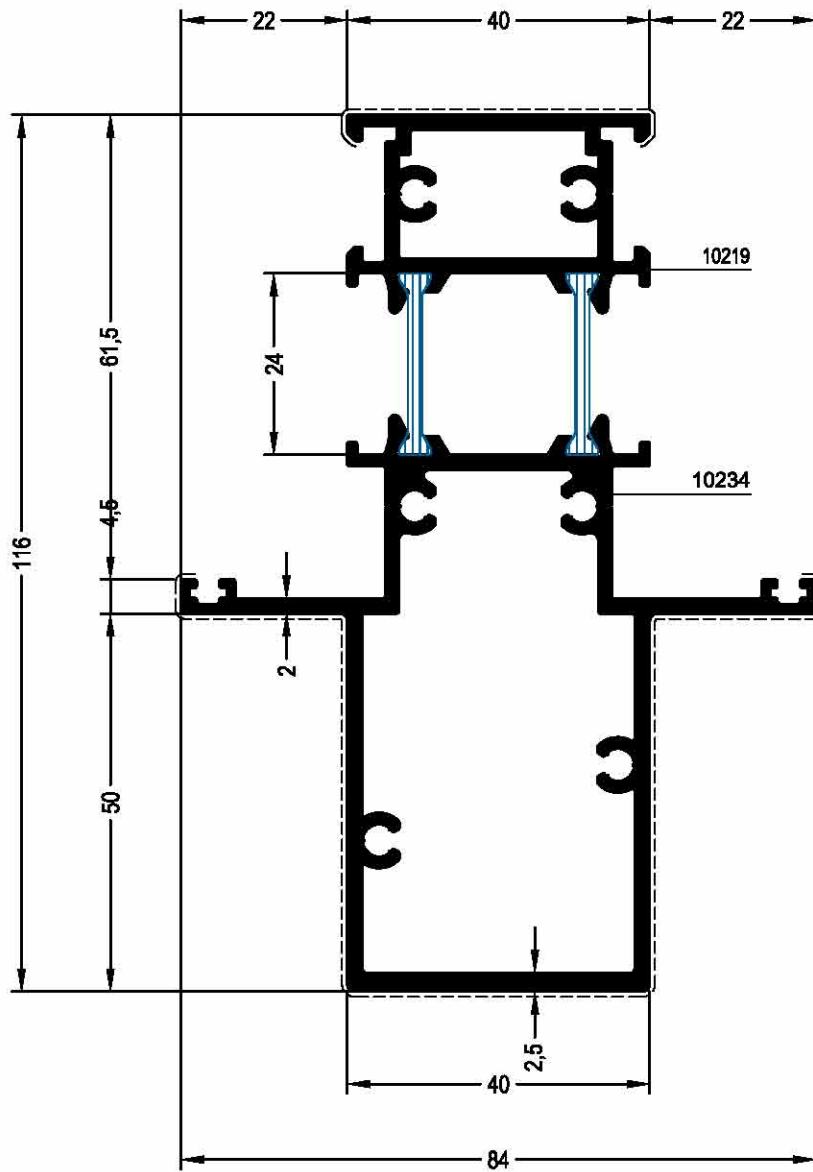


MULLION



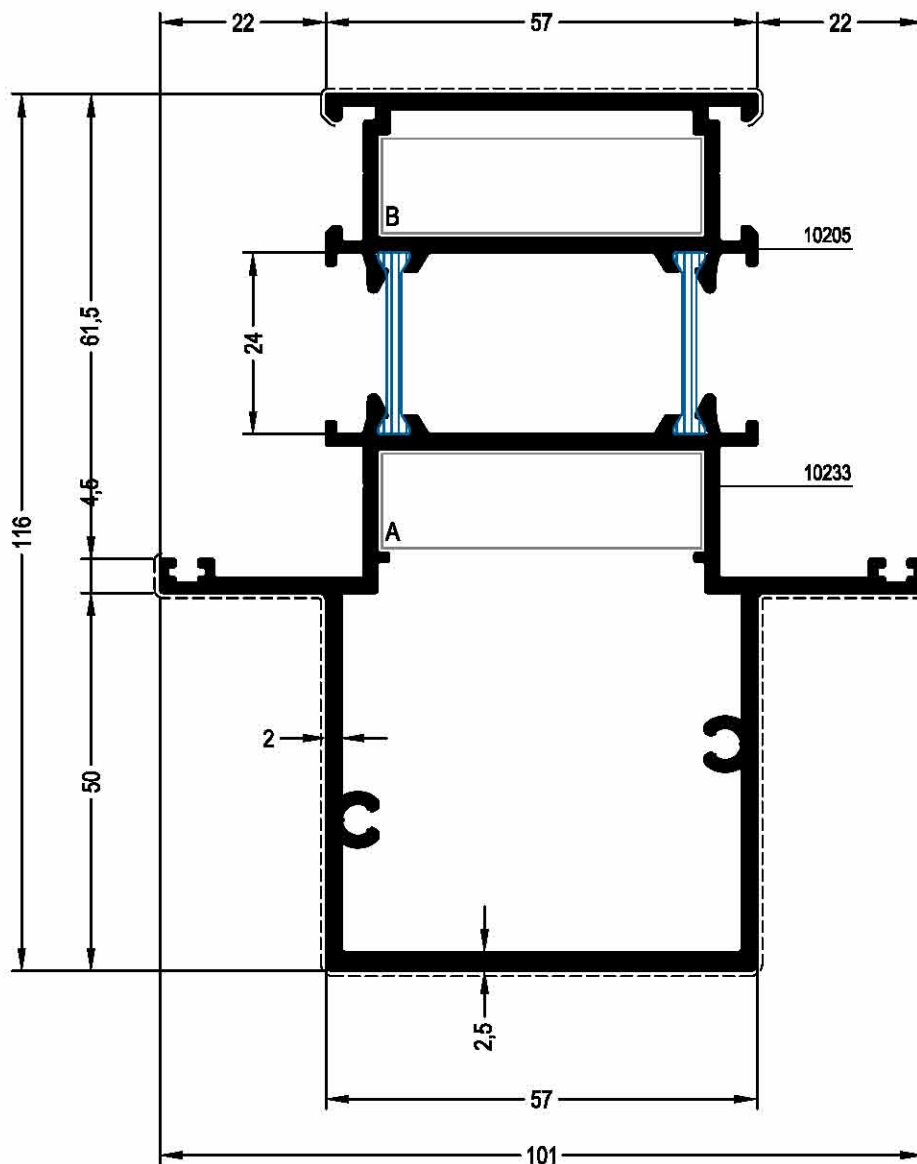
TRANSOM MULLION PROFILE 40 / 84			
PROFILE CODE		19MW08	
		THEORETICAL WEIGHT kg/mt	
		2.547	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		10203	10232
109.702	28.479	4.965	19.608
THERMO BREAK			
		LOCAL (Pvc)	----
T JUNCTION		A	B
		14JW05	14JW04
			C
			---

MULLION



TRANSOM MULLION PROFILE 40 / 84			
PROFILE CODE		19MW09	
		THEORETICAL WEIGHT kg/ml	
		2.738	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)	
		10219	10234
115.270	29.143	4.965	19.608
THERMO BREAK		LOCAL (Pvc)	
		—	

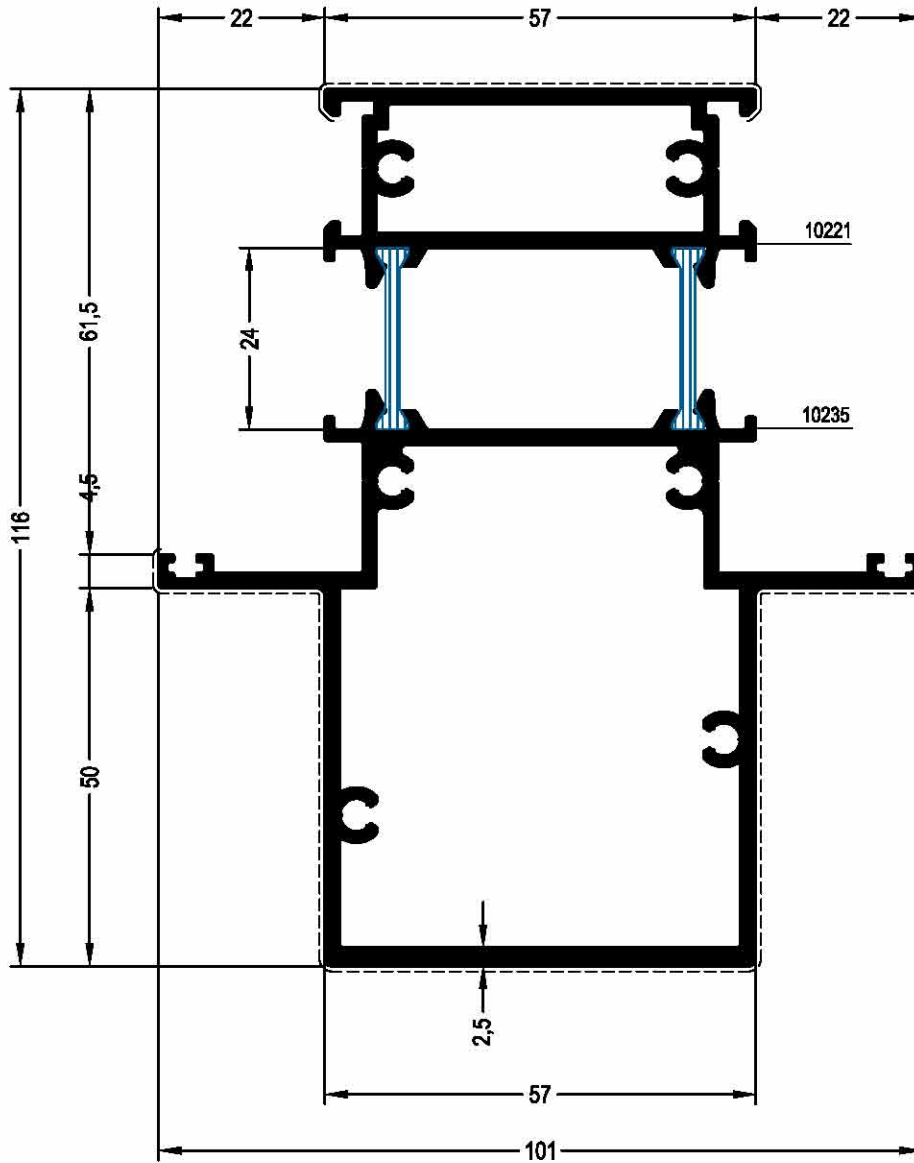
MULLION



TRANSOM MULLION PROFILE 57 / 101			
PROFILE CODE		19MW10	
		THEORETICAL WEIGHT kg/mt	
		2.937	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)	
		10205	10233
136.110	60.716	6.728	21.070
THERMO BREAK		LOCAL (Pvc)	
T JUNCTION		A	B
		14JW05	14JW04
		C	—

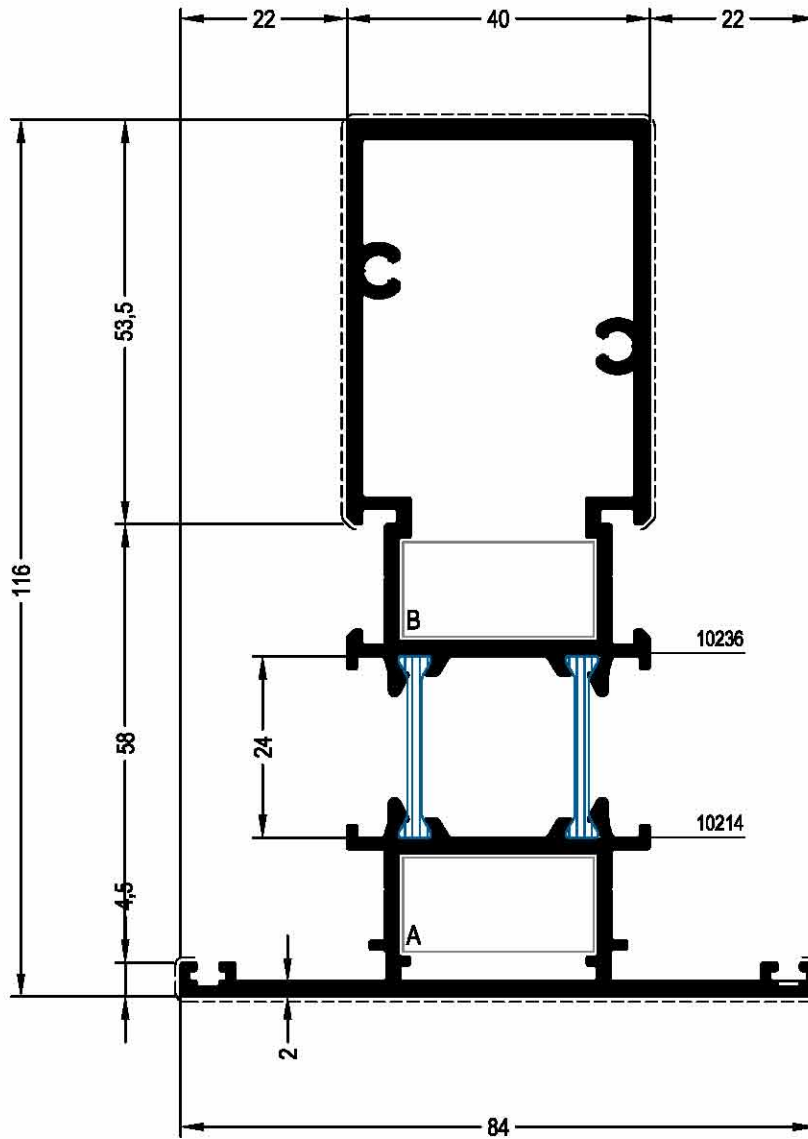


MULLION



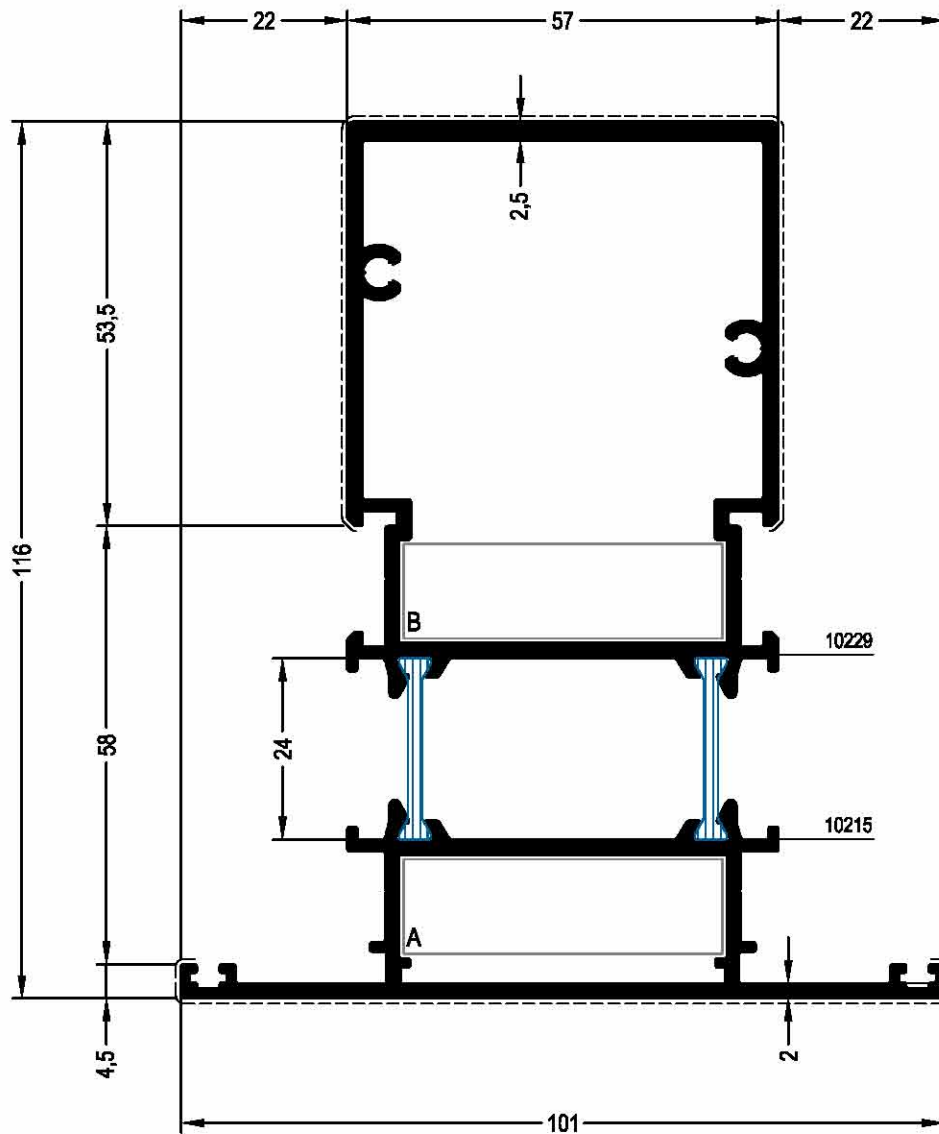
TRANSOM MULLION PROFILE 57 / 101					
PROFILE CODE		<b>19MW11</b>		THEORETICAL WEIGHT kg/mt	
				<b>3.130</b>	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10221		10235	
141.500	63.443	6.728	21.070		
THERMO BREAK		LOCAL (Pvc)			
		—			

MULLION




TRANSOM MULLION PROFILE 40 / 84					
PROFILE CODE		19MW12		THEORETICAL WEIGHT kg/mt	
				2.579	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10236	10214		
131.547	28.870	14.905	9.779		
THERMO BREAK		LOCAL (Pvc)			
T JUNCTION		A	B	C	
		14JW05	14JW04	—	

MULLION

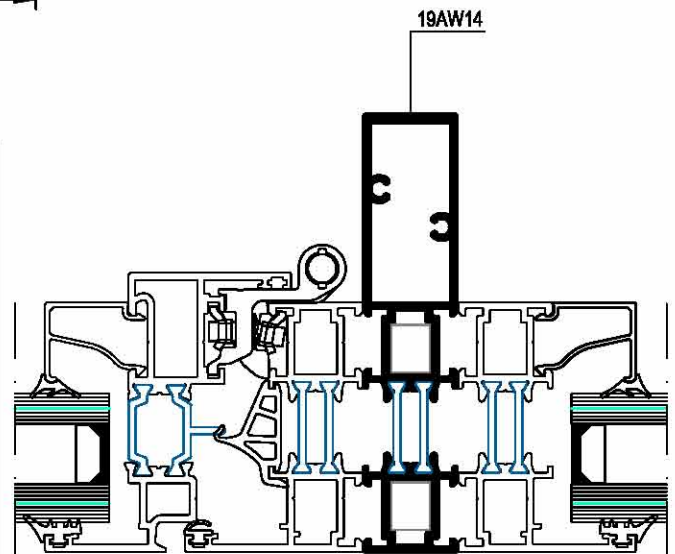
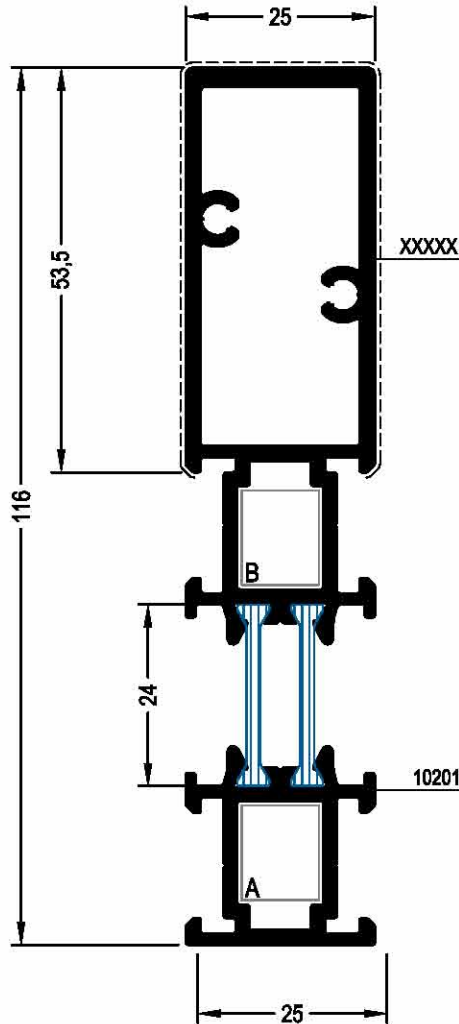


TRANSOM MULLION PROFILE 57 / 101



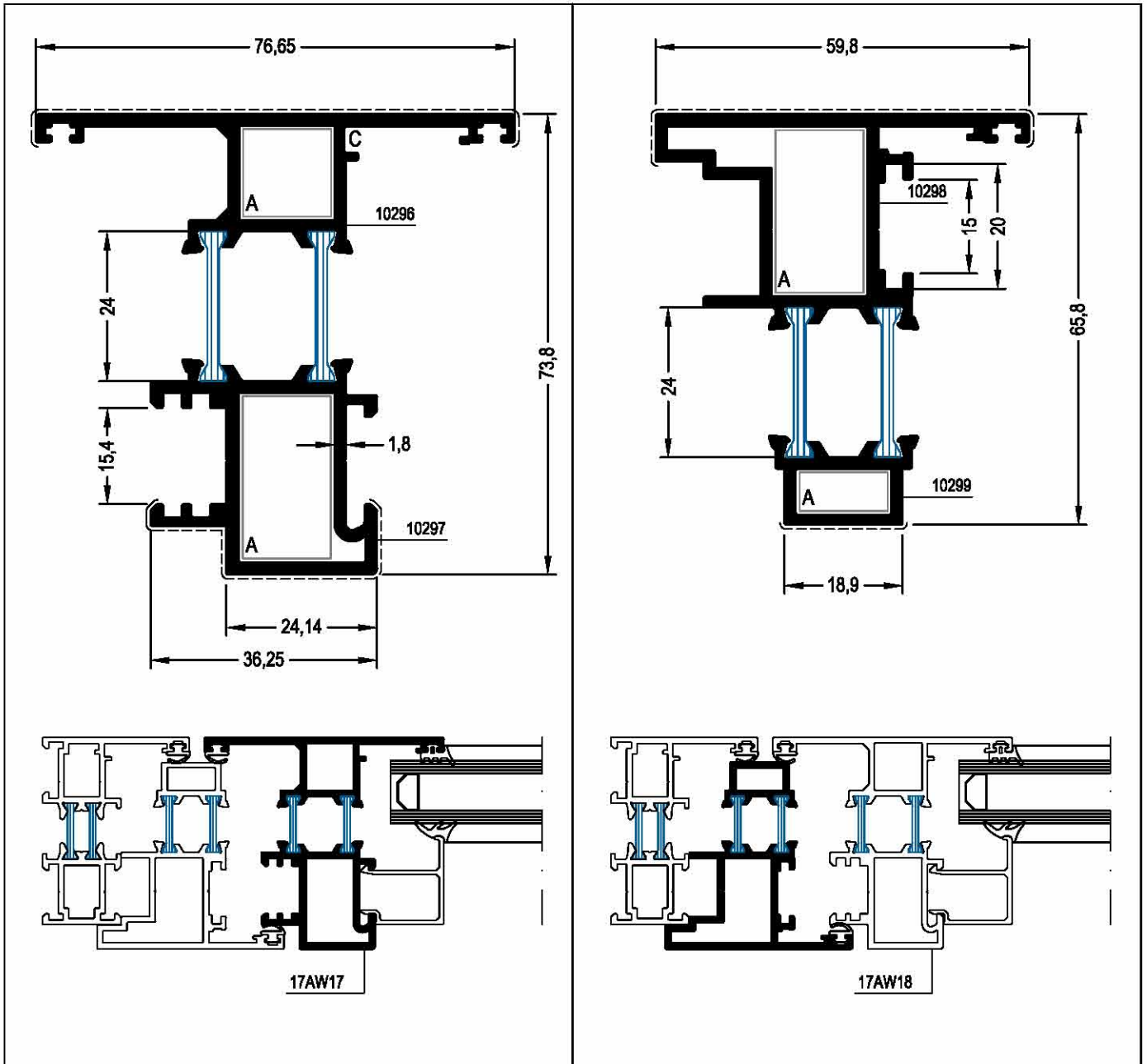
PROFILE CODE		19MW13		THEORETICAL WEIGHT kg/mt	
				2.971	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10229		10215	
156.969	61.200	16.605	11.479		
THERMO BREAK		LOCAL (Pvc)			
		—			
T JUNCTION		A	B	C	
		14JW05	14JW04	—	

MULLION



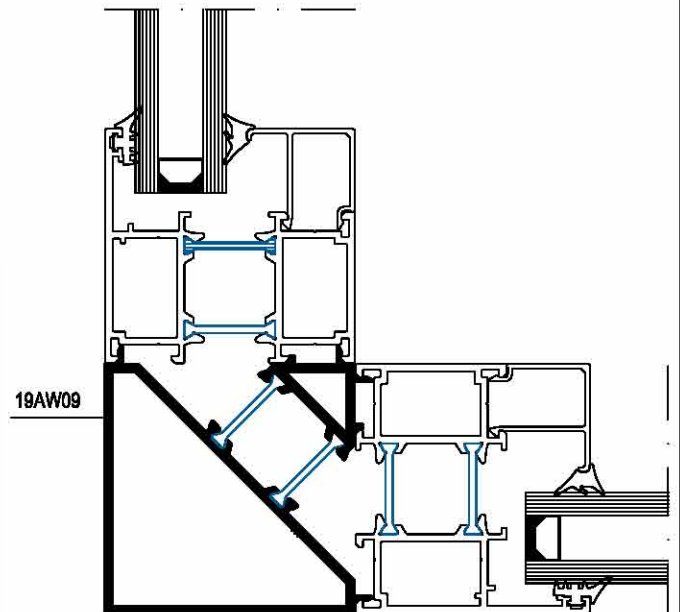
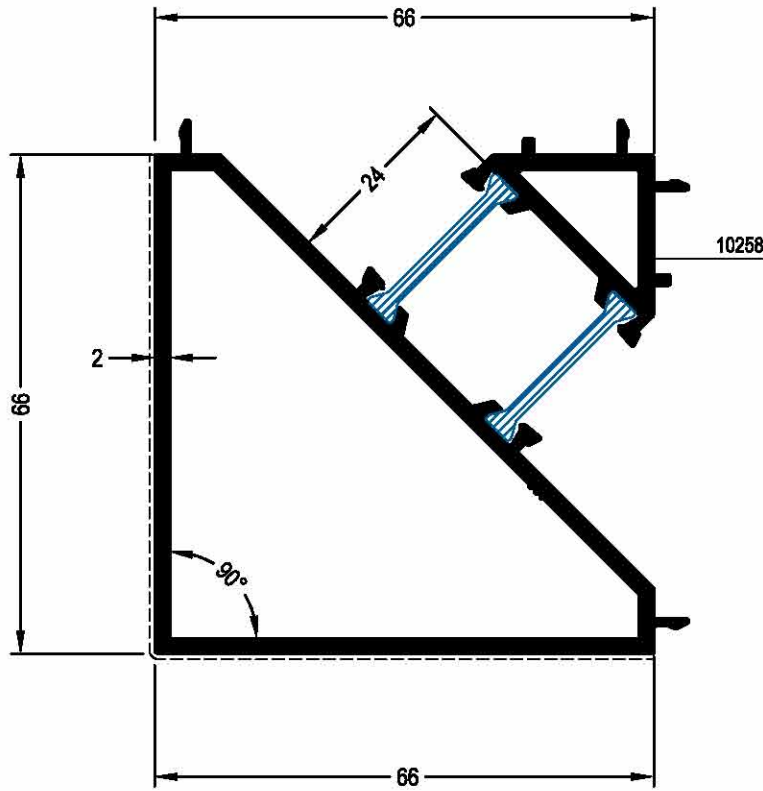
ADAPTER PROFILE		25 / 110			
PROFILE CODE		19AW14		THEORETICAL WEIGHT kg/mt	
				2.504	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10201	XXXXX		
85.872	5.182	3.465	13.405		
THERMO BREAK		LOCAL (Pvc)		—	
T JUNCTION		A	B	C	
		14JW05	14JW04	—	

MULLION



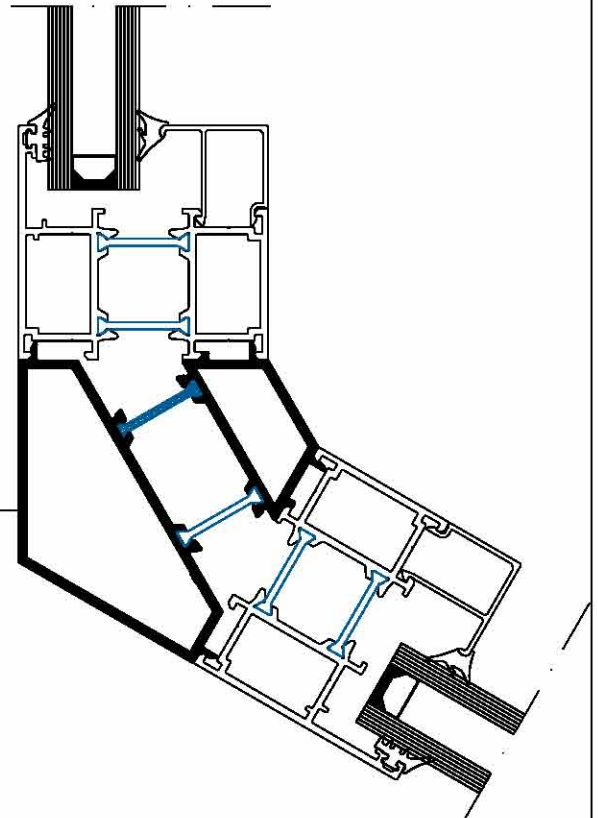
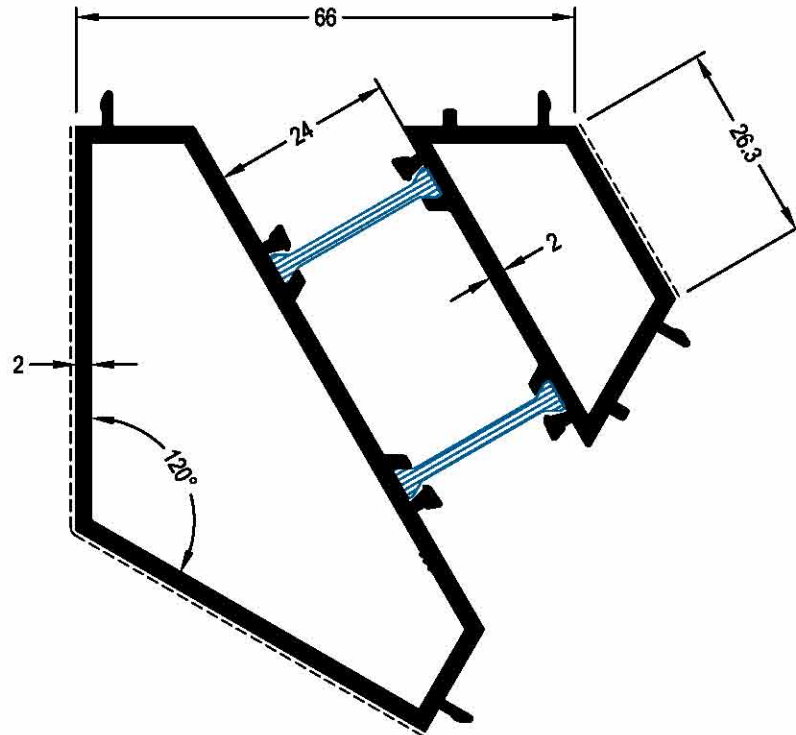
PIVOT VENT PROFILE 76.65 / 67.8				PIVOT ADAPTER 61 / 60					
PROFILE CODE		19AW17		THEORETICAL WEIGHT kg/mt		1.753			
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)		J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
34.136	14.285	10296	10297	22.421	9.109	10298	10299		
		8.744	6.094	7.378		2.018			
THERMO BREAK		LOCAL (Pvc)		THERMO BREAK		LOCAL (Pvc)			
		---				---			
CORNER CLEATS		A	B	C	CORNER CLEATS		A	B	C
		14LW13	14LW13	M.fuji 2000			14LW13	14LW13	M.fuji 2000

MULLION



ADAPTER FOR 90° 60 / 60					
PROFILE CODE		19AW09		THEORETICAL WEIGHT kg/mt	
				1.919	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)			
		10258		10257	
32.325	28.538	---	12.025		
THERMO BREAK		LOCAL (Pvc)		---	

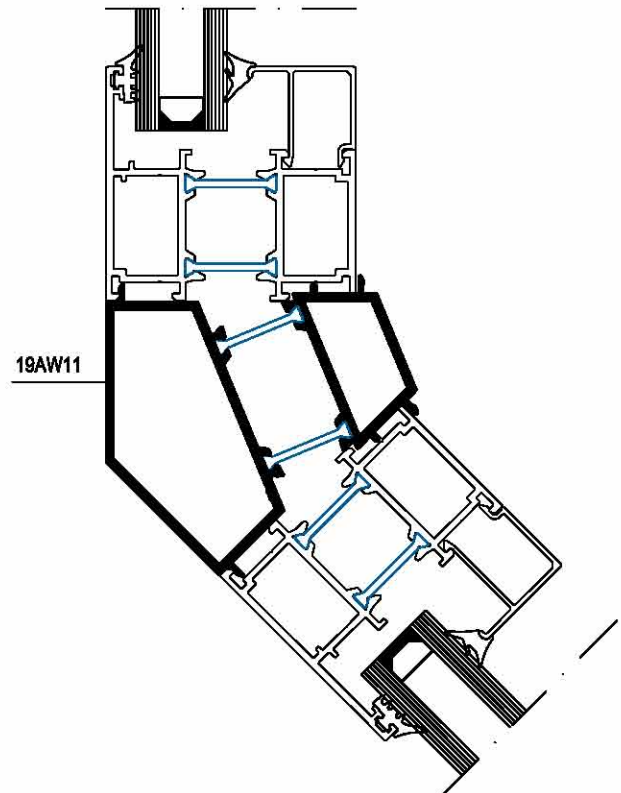
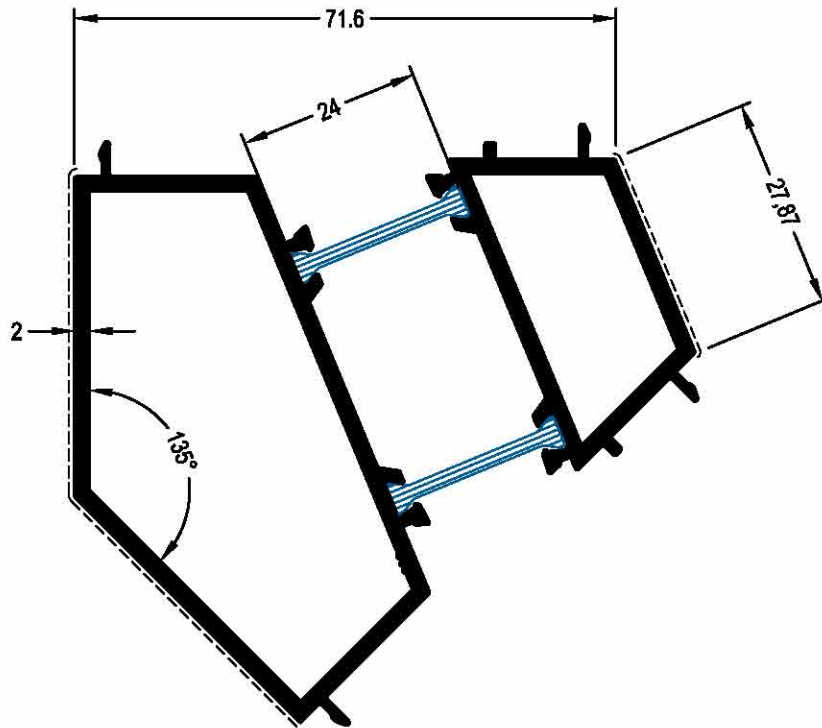
MULLION



ADAPTER FOR 120° 60 / 60					
PROFILE CODE		19AW10		THEORETICAL WEIGHT kg/mt	
				2.073	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10259		10260	
36.344	34.004	9.986		2.626	
THERMO BREAK		LOCAL (Pvc)			
		—			

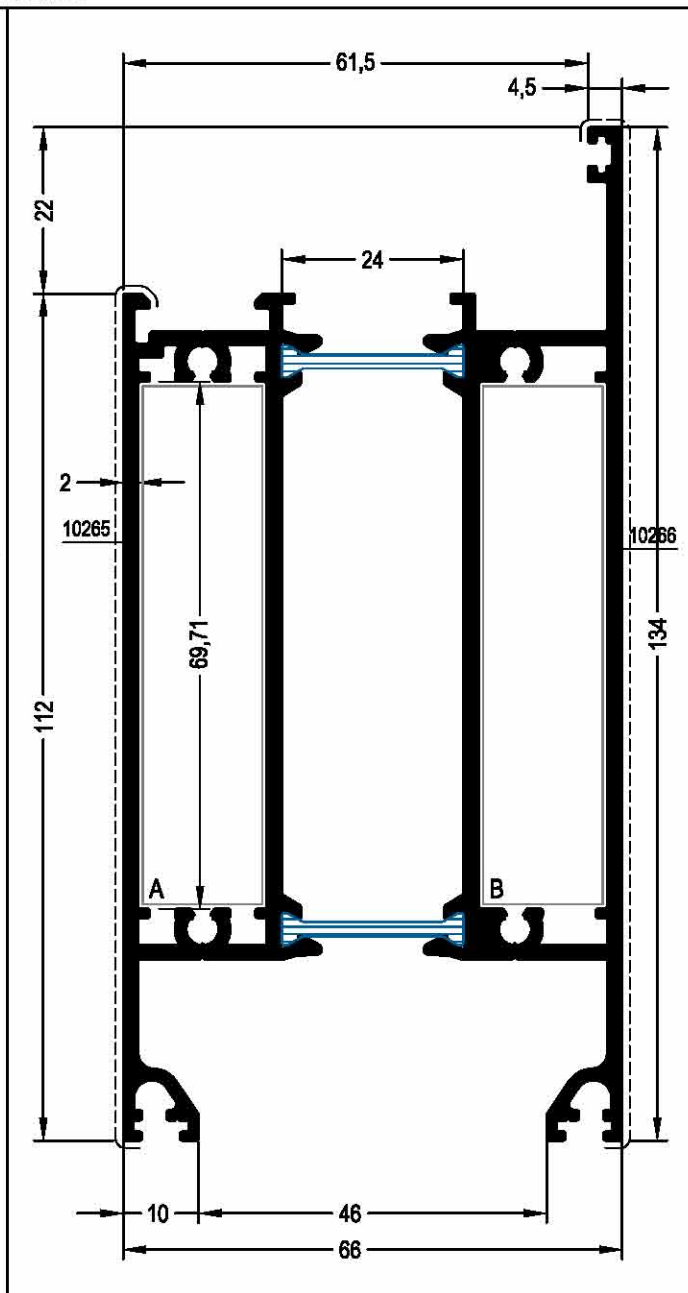
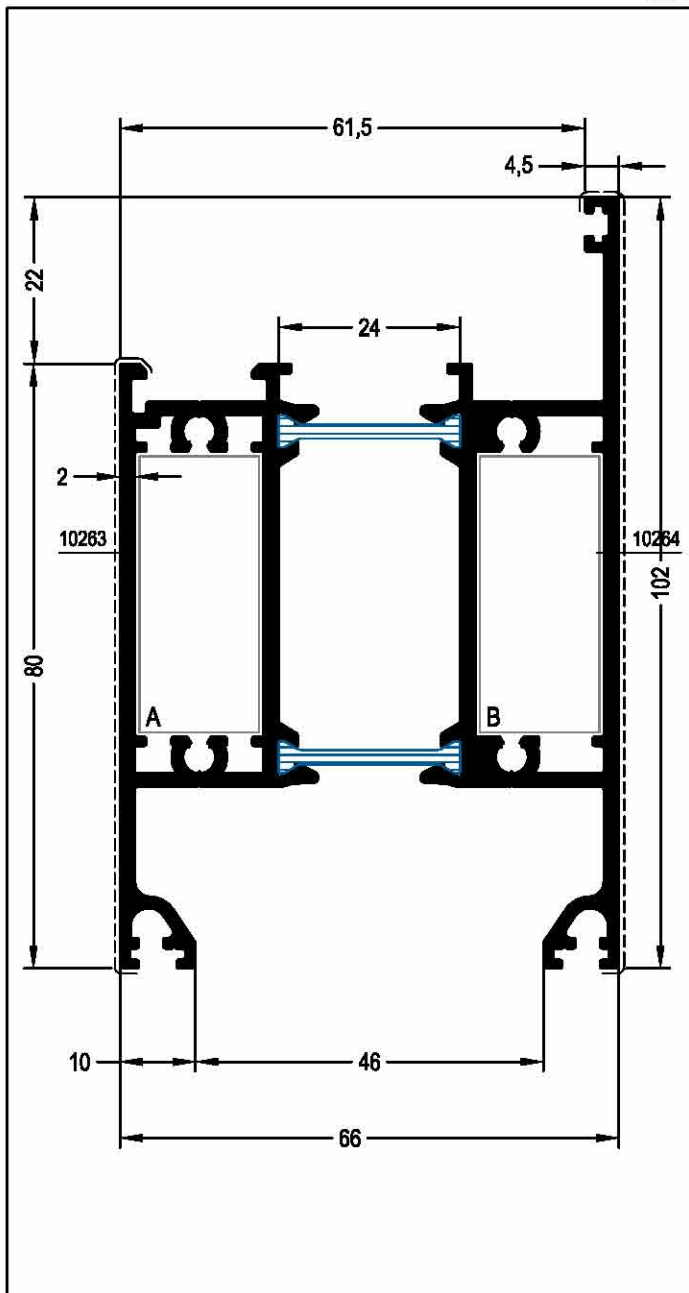



MULLION




ADAPTER FOR 135° 60 / 60					
PROFILE CODE		19AW11		THEORETICAL WEIGHT kg/mt	
				1.939	
		Covering Surface (cm)			
		10261		10262	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )				
28.873	26.769	8.056		2.872	
THERMO BREAK					
		LOCAL (Pvc)		—	

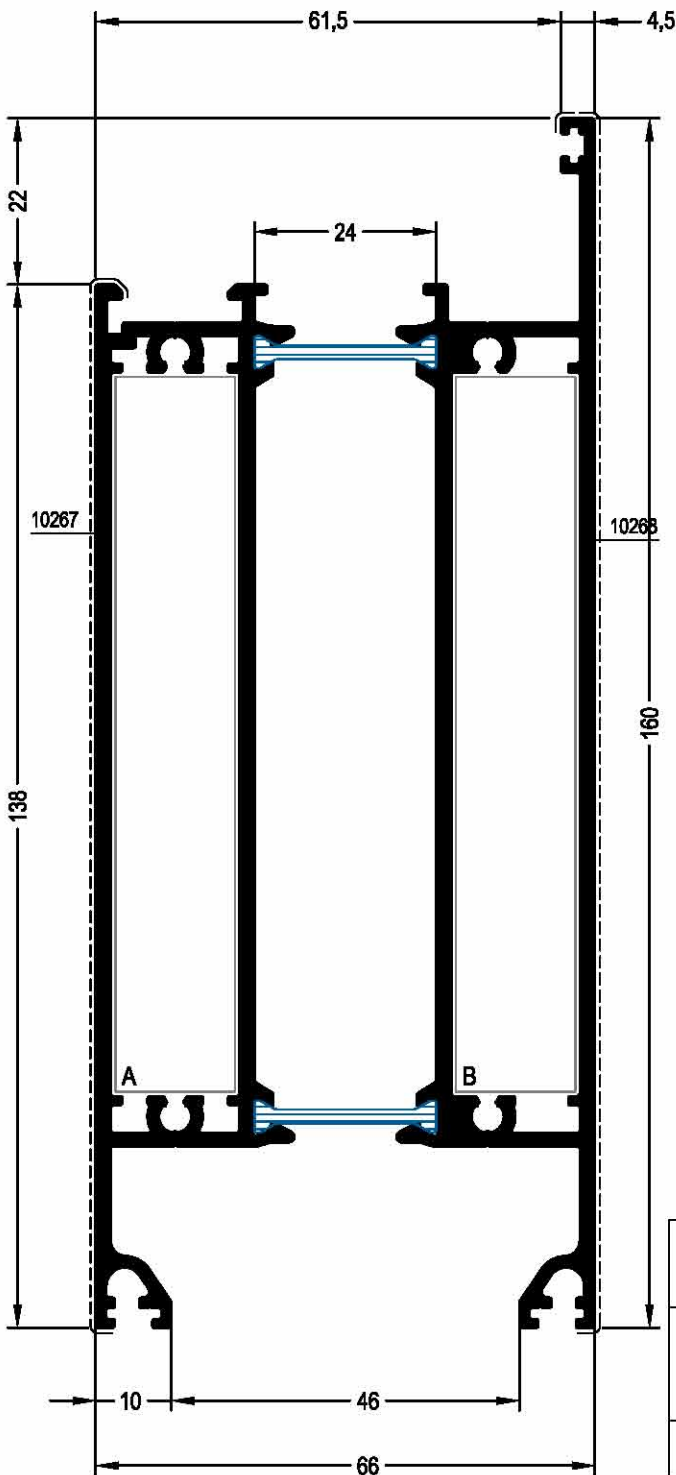
KICK PLATE



KICK PLATE PROFILE 80 / 102				x — x	
PROFILE CODE		19KW01		THEORETICAL WEIGHT kg/mt	
				2.642	
Jxx (cm4)	Jyy (cm4)	Covering Surface (cm)			
		10263	10264		
---	---	8.736	11.144		
THERMO BREAK		LOCAL (Pvc)			
		—			
T JUNCTION		A	B	C	
		14JW06	14JW07	—	

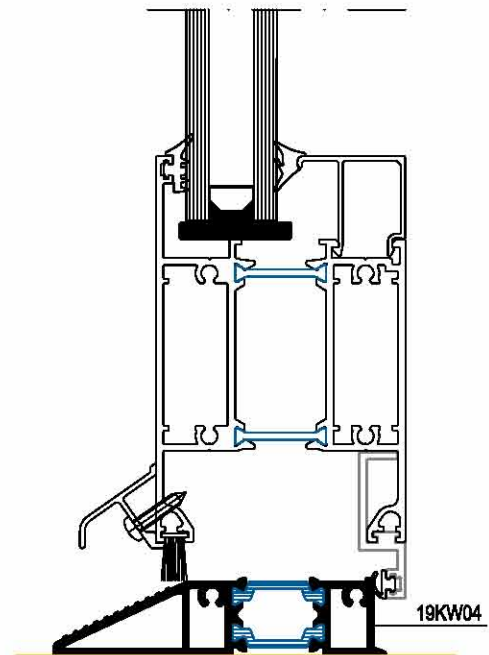
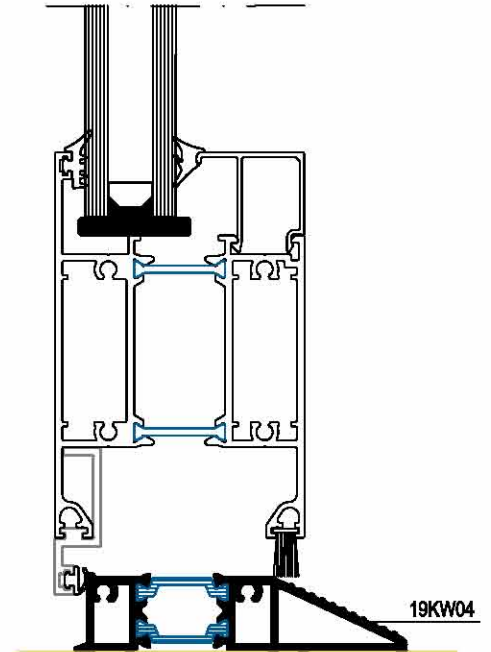
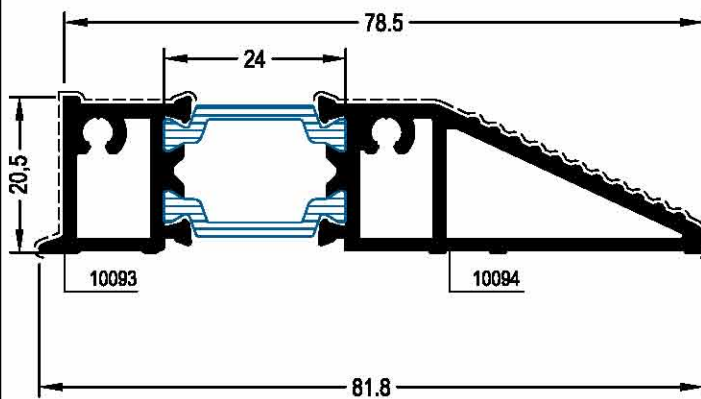
KICK PLATE PROFILE 112 / 134				x — x	
PROFILE CODE		19KW02		THEORETICAL WEIGHT kg/mt	
				3.335	
Jxx (cm4)	Jyy (cm4)	Covering Surface (cm)			
		10265	10266		
---	---	11.994	14.344		
THERMO BREAK		LOCAL (Pvc)			
		—			
T JUNCTION		A	B	C	
		14JW06	14JW07	—	

KICK PLATE



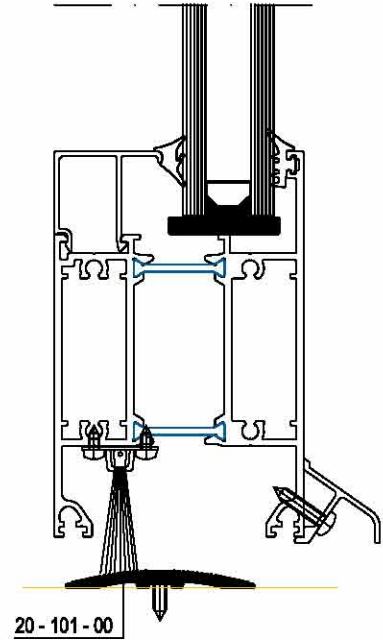
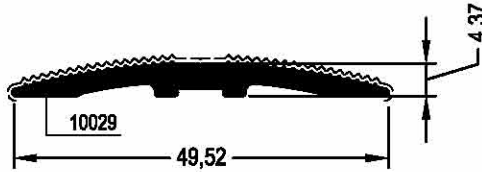
KICK PLATE PROFILE		138 / 160			
PROFILE CODE		19KW03		THEORETICAL WEIGHT kg/mt	
				3.900	
J <sub>xx</sub> (cm <sup>4</sup> )	J <sub>yy</sub> (cm <sup>4</sup> )	Covering Surface (cm)			
		10267		10268	
---	---	14.594	16.944		
THERMO BREAK		LOCAL (Pvc)		---	
T JUNCTION		A	B	C	
		14JW06	14JW07	---	

KICK PLATE



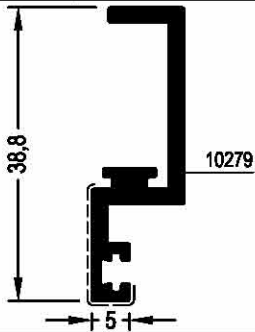
THRESHOLD PROFILE					
PROFILE CODE		19KW04		THEORETICAL WEIGHT kg/m	
				1.219	
Jxx (cm <sup>4</sup> )	Jyy (cm <sup>4</sup> )	Covering Surface (cm)			
		10093	10094		
----	—	—	—		
THERMO BREAK		LOCAL (Pvc)		—	
APPLICATION PROFILE					
FACE CAP					

KICK PLATE



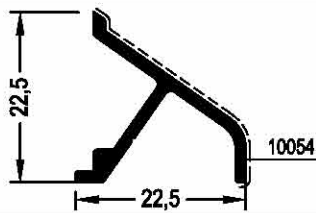
THRESHOLD PROFILE

PROFILE CODE	20 - 101 - 00	THEORETICAL WEIGHT kg/mt
		0.355
Coating Surface ( cm )	11.405	



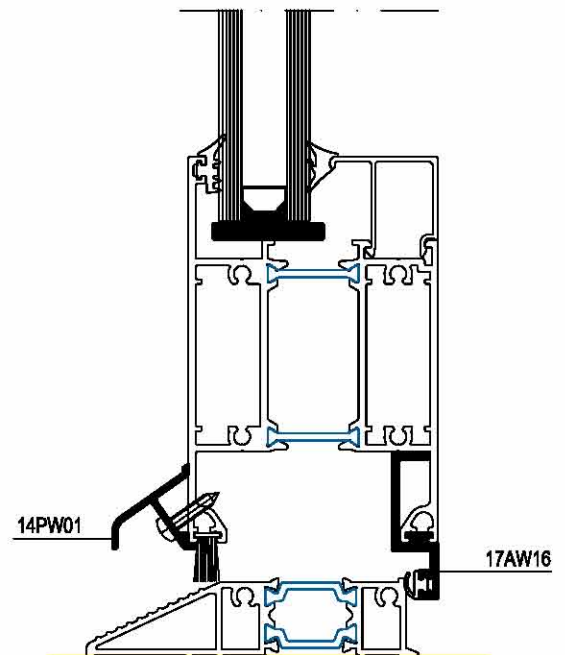
KICK PLATE PROFILE

PROFILE CODE	17AW16	THEORETICAL WEIGHT kg/mt
		0.373
Coating Surface ( cm )	14.314	Covering Surface ( cm )
		2.359

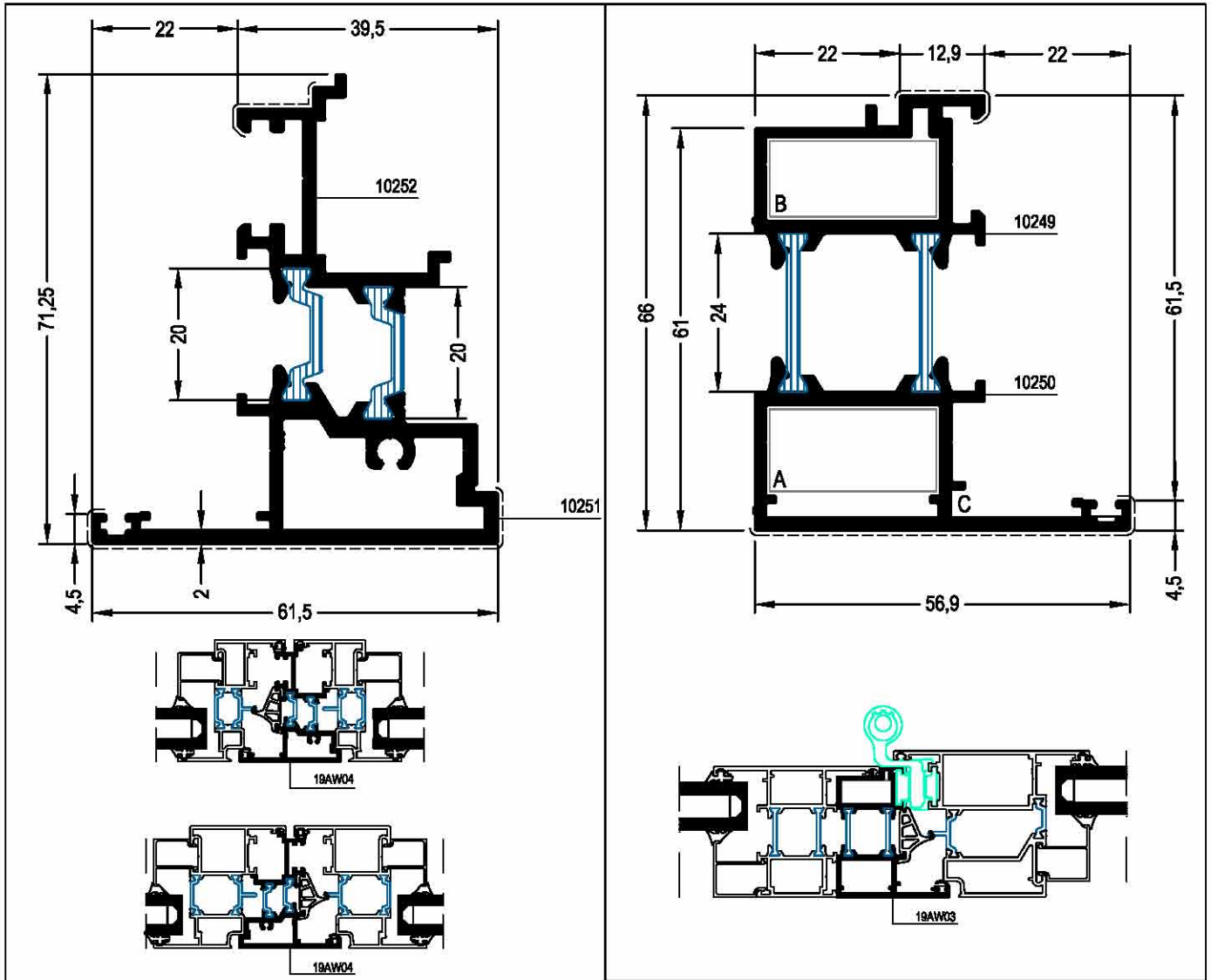


DRAINAGE PROFILE

PROFILE CODE	14PW01	THEORETICAL WEIGHT kg/mt
		0.190
Coating Surface ( cm )	10.183	



ADAPTERS

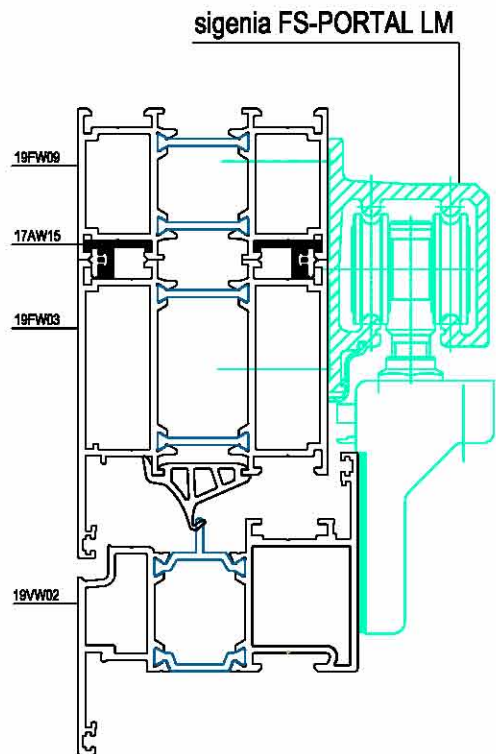
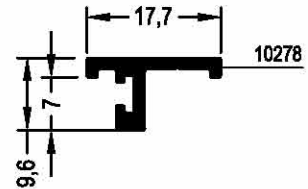
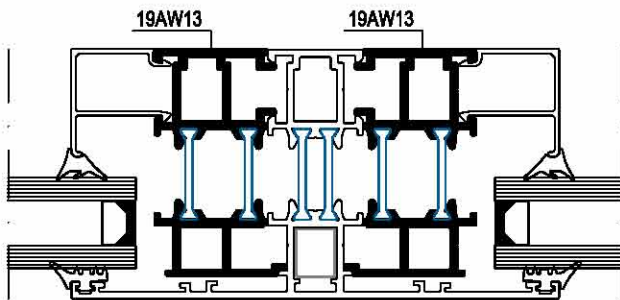
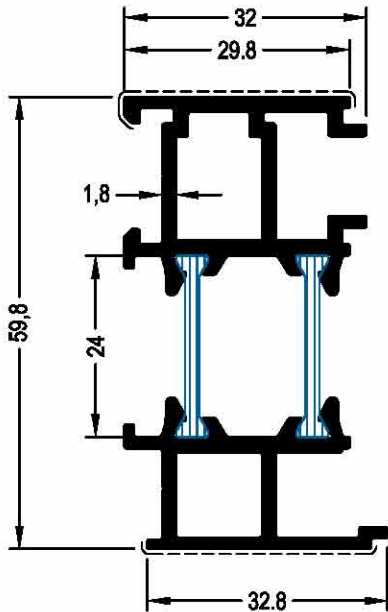


ADAPTER 56.9 / 60



ADAPTER 61.5 / 65.25				ADAPTER 56.9 / 60			
PROFILE CODE		19AW04		PROFILE CODE		19AW03	
		THEORETICAL WEIGHT kg/mt				THEORETICAL WEIGHT kg/mt	
		1.581				1.531	
J <sub>xx</sub> (cm <sup>4</sup> )		J <sub>yy</sub> (cm <sup>4</sup> )		Covering Surface (cm)			
---		---		10249		10250	
				1.894		6.444	
THERMO BREAK		LOCAL (Pvc)		THERMO BREAK		LOCAL (Pvc)	
		---				---	
CORNER CLEATS				CORNER CLEATS			
		---		A		B	
		---		14LW32		14LW32	
		---		M.fuji 2000		---	
APPLICATION PROFILE		17VW01,17VW02,17VW07		APPLICATION PROFILE		17FW01,17FW02,17FW03,17FW04	
		---				17VW05,17VW06	
FACE CAP		TOP		FACE CAP		TOP	
		17A1207-T				---	
		BOTTOM				BOTTOM	
		17A1207-B				---	

ADAPTERS



ADAPTER 32 / 53.8



PROFILE CODE

19AW13

THEORETICAL WEIGHT kg/mt

1.267

J<sub>xx</sub> (cm<sup>4</sup>)

J<sub>yy</sub> (cm<sup>4</sup>)

Covering Surface (cm)

3.616

3.147

THERMO BREAK

IMPORT (Polyamide)

908300 (18 mm l)

LOCAL (Pvc)

-----

APPLICATION PROFILE

ADAPTER 17.7 / 9.6

PROFILE CODE

17AW15

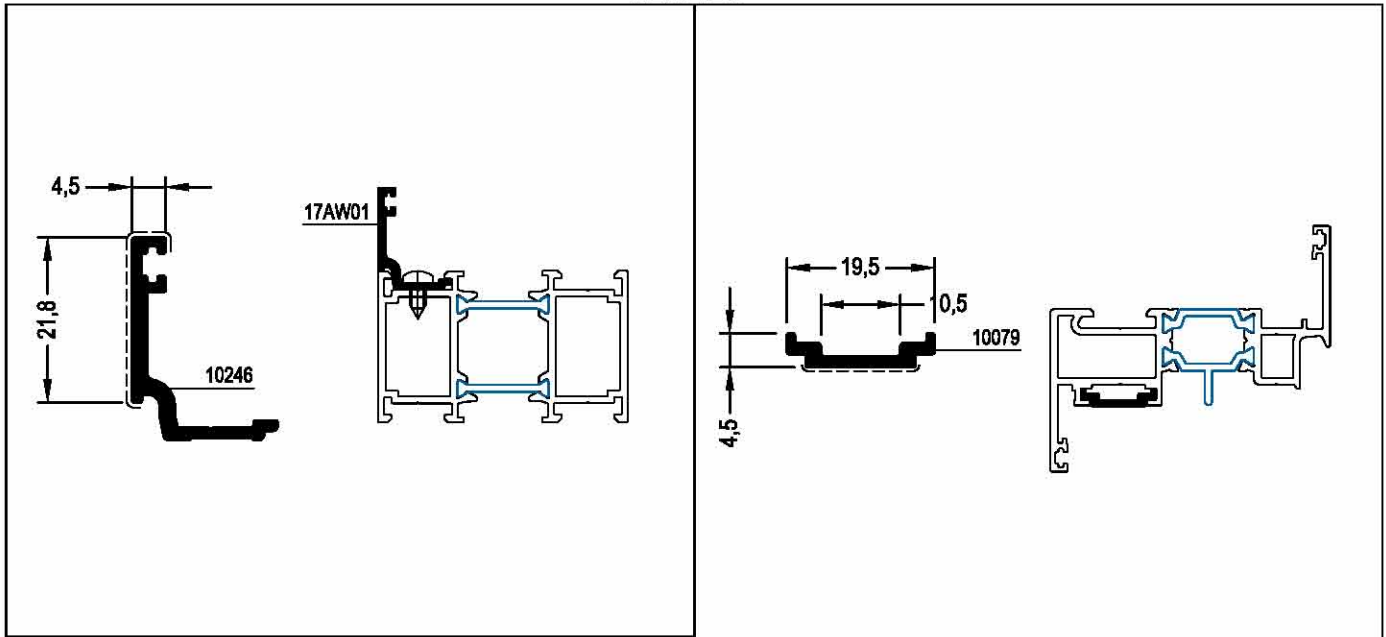
THEORETICAL WEIGHT kg/mt

0.137

Covering Surface (cm)

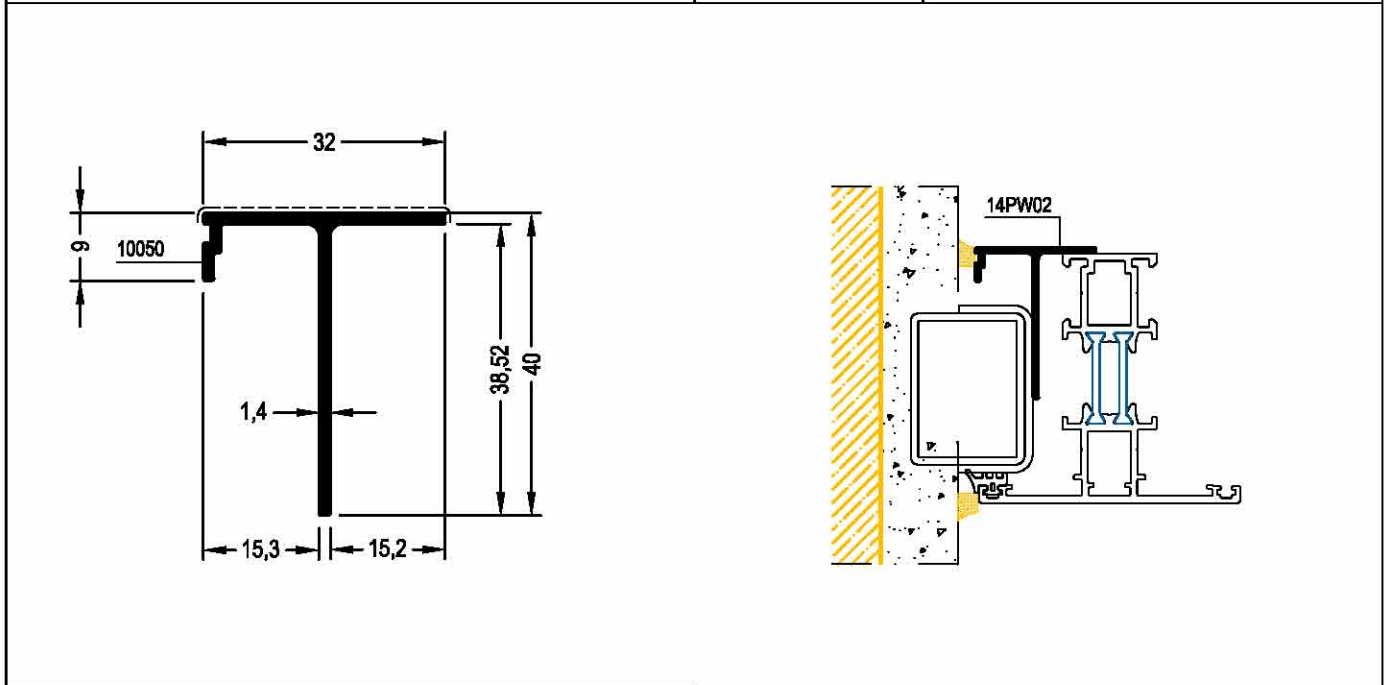


ADAPTER



ADAPTER 4,5 / 21.8

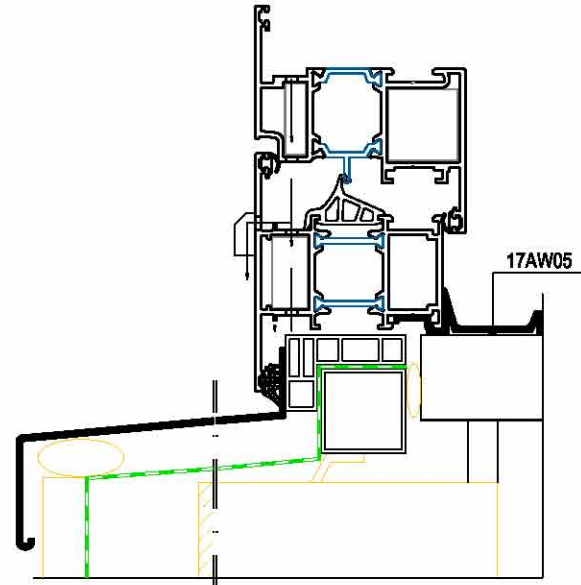
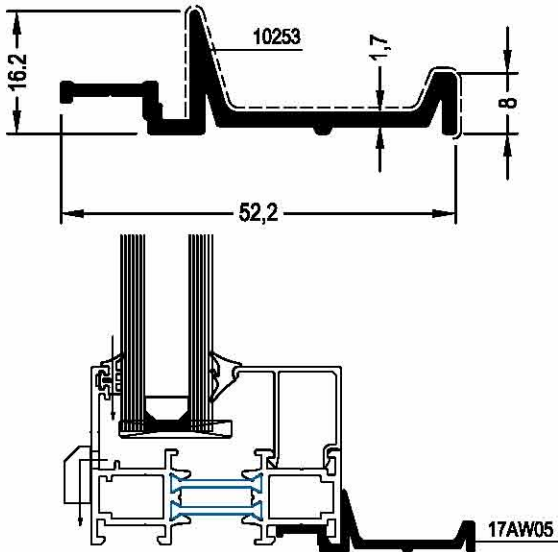
PROFILE CODE	17AW01	THEORETICAL WEIGHT kg/mt	SLIDING ROAD PROFILE		
		0.234	PROFILE CODE	14IW01	THEORETICAL WEIGHT kg/mt
Covering Surface ( cm )					0.105
3.014					



T PROFILE

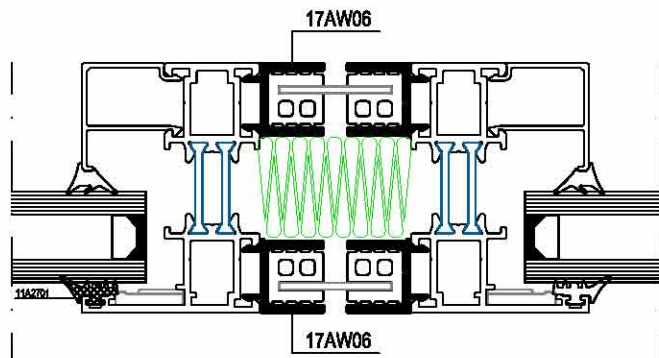
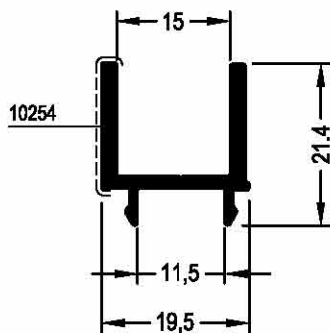
PROFILE CODE	14PW02	THEORETICAL WEIGHT kg/mt
		0.321
Covering Surface ( cm )		
3.508		

ADAPTER



ADAPTER 52.2 / 16.2

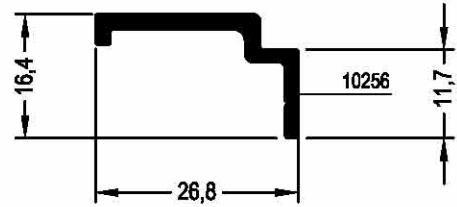
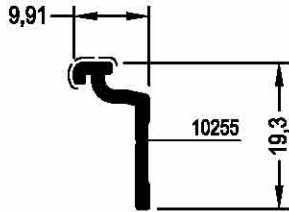
PROFILE CODE	17AW05	THEORETICAL WEIGHT kg/mt
		0.407
Covering Surface ( cm )		
7.082		



ADAPTER 19.5 / 21.4

PROFILE CODE	17AW06	THEORETICAL WEIGHT kg/mt
		0.278
Covering Surface ( cm )		
2.127		

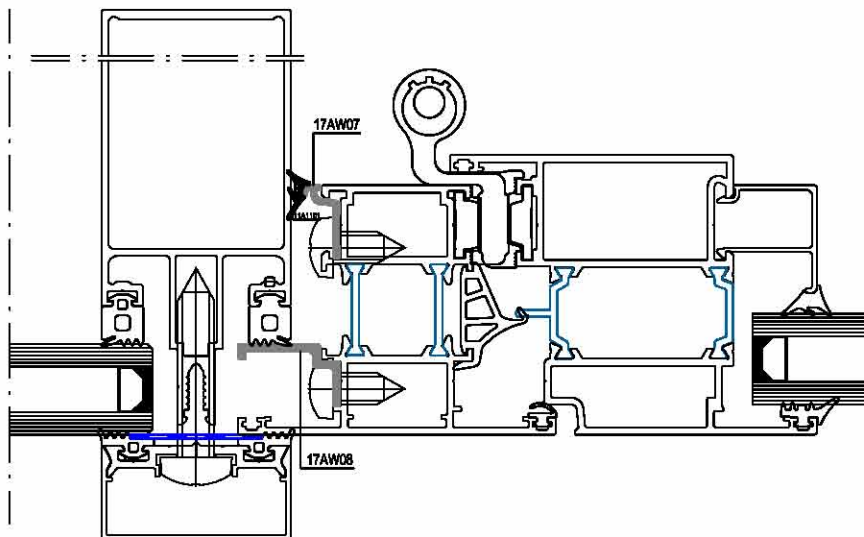
ADAPTER



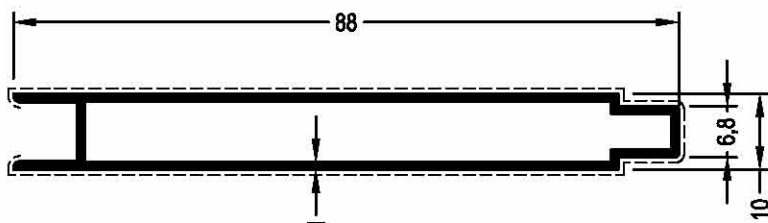
ADAPTER 9.91 / 19.3

ADAPTER 26.8 / 16.4

PROFILE CODE	<b>17AW07</b>	THEORETICAL WEIGHT kg/mt	PROFILE CODE	<b>17AW08</b>	THEORETICAL WEIGHT kg/mt
		<b>0.113</b>			<b>0.221</b>
Covering Surface (cm)			Covering Surface (cm)		
<b>0.880</b>			---		



ADAPTER



ADAPTER 10 / 88		
PROFILE CODE	1274	THEORETICAL WEIGHT kg/mt
		0.524
Covering Surface (cm)		
16.536		

GLAZING BEAD

GLAZING BEAD 15 / 21.8			GLAZING BEAD 18 / 21.95		
PROFILE CODE	14GW03	THEORETICAL WEIGHT kg/mt 0.245	PROFILE CODE	14GW04	THEORETICAL WEIGHT kg/mt 0.246
Covering Surface ( cm )	4.059		Covering Surface ( cm )	4.226	
GLAZING BEAD 21 / 21.8			GLAZING BEAD 24 / 21.8		
PROFILE CODE	14GW05	THEORETICAL WEIGHT kg/mt 0.256	PROFILE CODE	14GW06	THEORETICAL WEIGHT kg/mt 0.260
Covering Surface ( cm )	4.569		Covering Surface ( cm )	4.959	
GLAZING BEAD 27 / 21.95			GLAZING BEAD 28.5 / 21.95		
PROFILE CODE	14GW07	THEORETICAL WEIGHT kg/mt 0.270	PROFILE CODE	14GW19	THEORETICAL WEIGHT kg/mt 0.276
Covering Surface ( cm )	5.126		Covering Surface ( cm )	5.276	

GLAZING BEAD

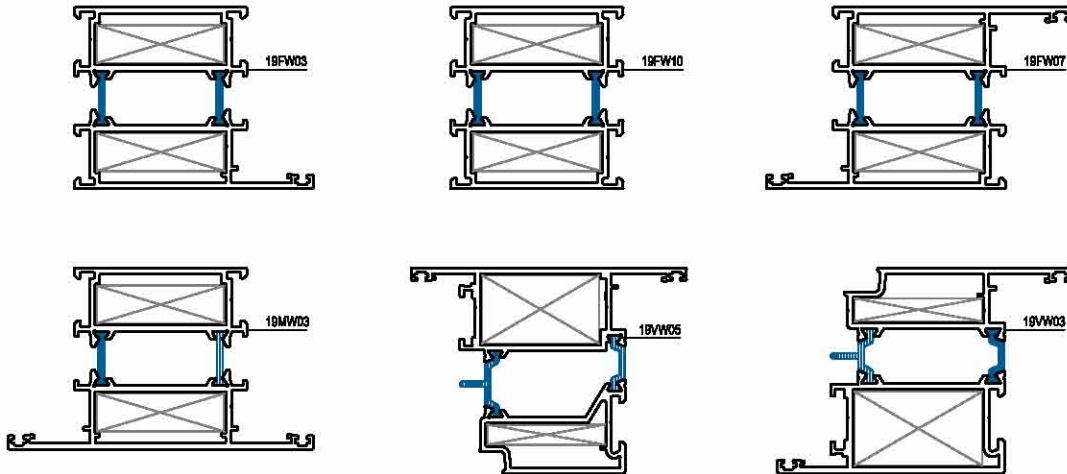
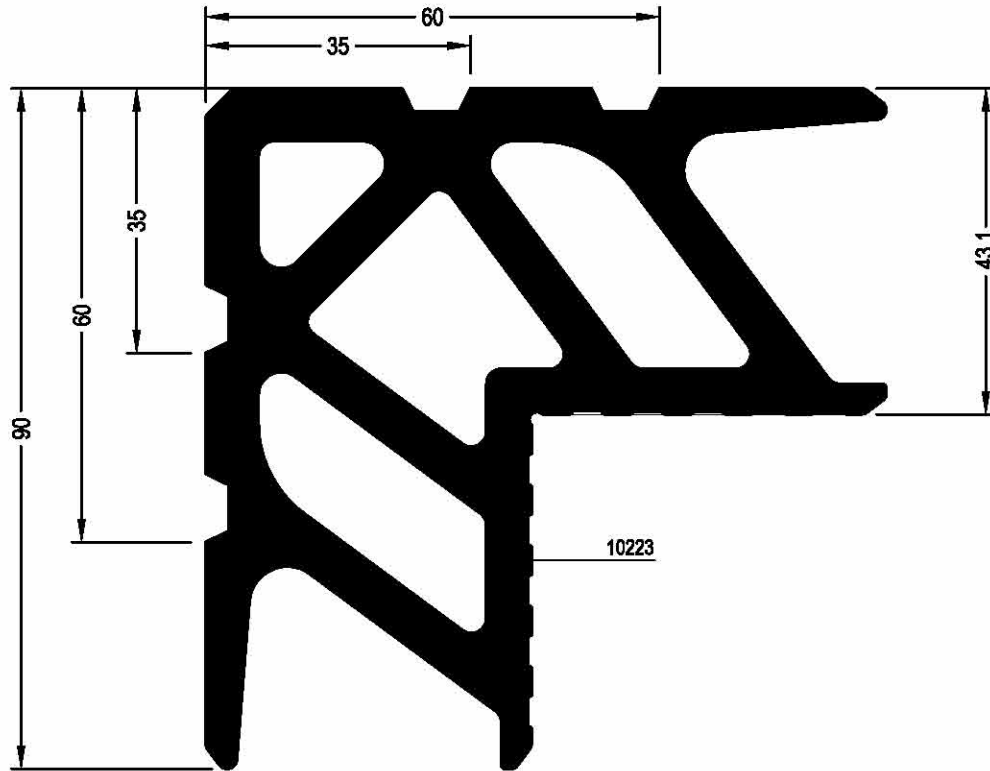
GLAZING BEAD 33 / 21.8			GLAZING BEAD 36 / 21.95		
PROFILE CODE	14GW09	THEORETICAL WEIGHT kg/mt 0.291	PROFILE CODE	14GW10	THEORETICAL WEIGHT kg/mt 0.311
Covering Surface ( cm )			Covering Surface ( cm )		
5.830			6.026		

CORNER CLEATS

* pressed profile				* pressed profile			
CORNER CLEATS		26.1 / 60		CORNER CLEATS		11.1 / 55	
PROFILE CODE	14LW32	PRES	THEORETICAL WEIGHT kg/mt	PROFILE CODE	14LW14	PRES	THEORETICAL WEIGHT kg/mt
			3.363				2.154
APPLICATION PROFILE	PROFILE CODE			APPLICATION PROFILE	PROFILE CODE		
	19FW02, 19FW09, 19FW08				19FW01, 19FW05, 19FW08		
	19MW02				19MW01, 19VW01, 19VW07, 19VW08		

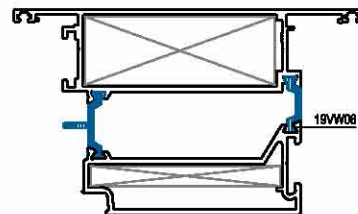
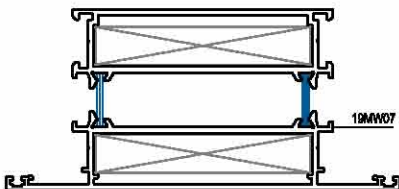
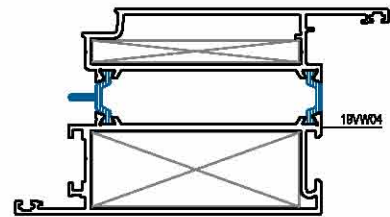
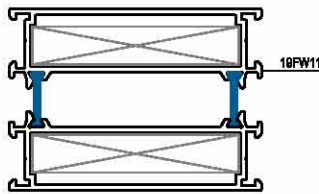
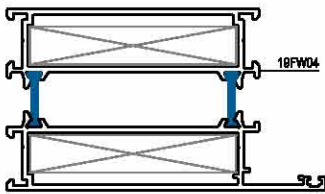
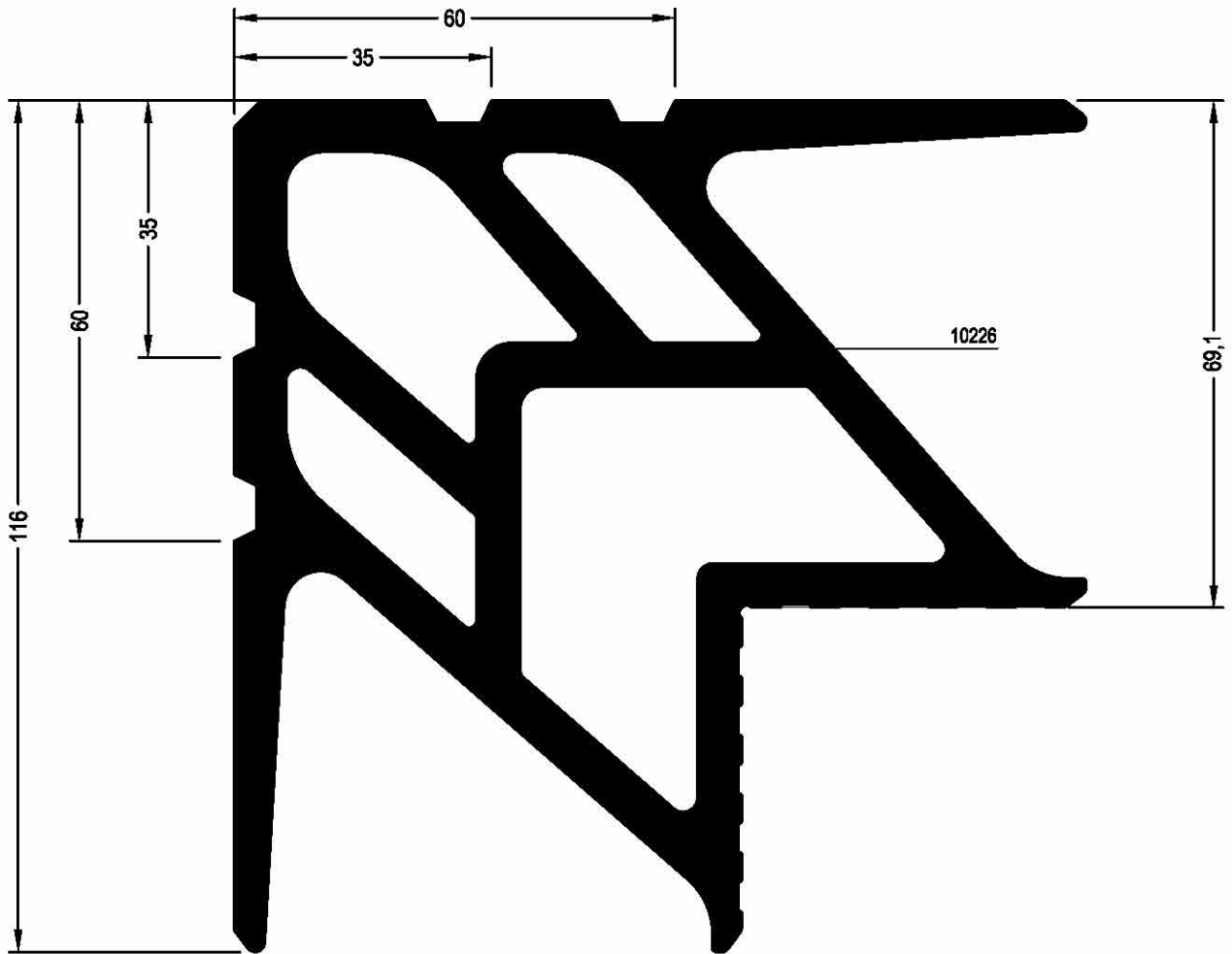


CORNER CLEATS



CORNER CLEATS		43.1 / 90	
PROFILE CODE	14LW33	PRES	THEORETICAL WEIGHT kg/mt
			7.344
APPLICATION PROFILE		PROFILE CODE	
		19FW03, 19FW07, 19FW10	
		19MW03, 19VW05, 19VW03	

CORNER CLEATS

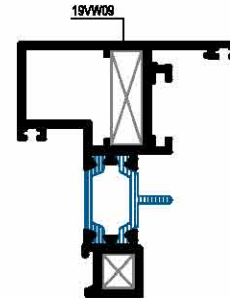
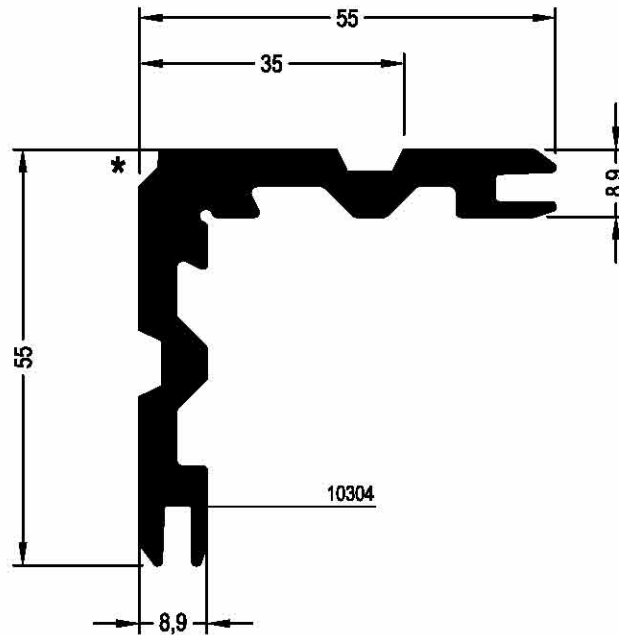


CORNER CLEATS		69.1 / 116	
PROFILE CODE	14LW34	PRES	THEORETICAL WEIGHT kg/mt
			10.235
APPLICATION PROFILE		PROFILE CODE	
		19FW04, 19FW11	
		19MW07, 19VW04, 19VW08	

CORNER CLEATS

<p>10105</p>				<p>10584</p>			
<p>19VW11</p>				<p>19AW18, 19AW17</p>			
* pressed profile				* pressed profile			
CORNER CLEATS 19.5 / 65				CORNER CLEATS 15 / 60			
PROFILE CODE	14LW35	PRES	THEORETICAL WEIGHT kg/mt	PROFILE CODE	14LW13	THEORETICAL WEIGHT kg/mt	
			4.270			2.488	
APPLICATION PROFILE		PROFILE CODE		APPLICATION PROFILE		PROFILE CODE	
		19VW11				19AW17, 19AW18	

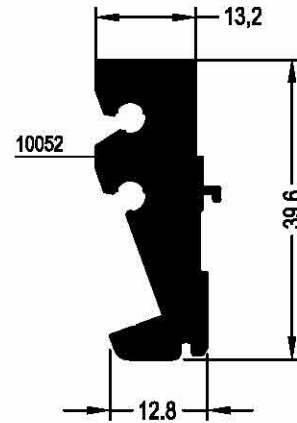
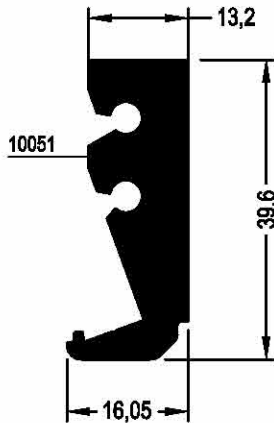
CORNER CLEATS



\* pressed profile

CORNER CLEATS		8.9 / 55	
PROFILE CODE	14LW45	PRES	THEORETICAL WEIGHT kg/mt
			1.672
APPLICATION PROFILE		PROFILE CODE	
		19W09	

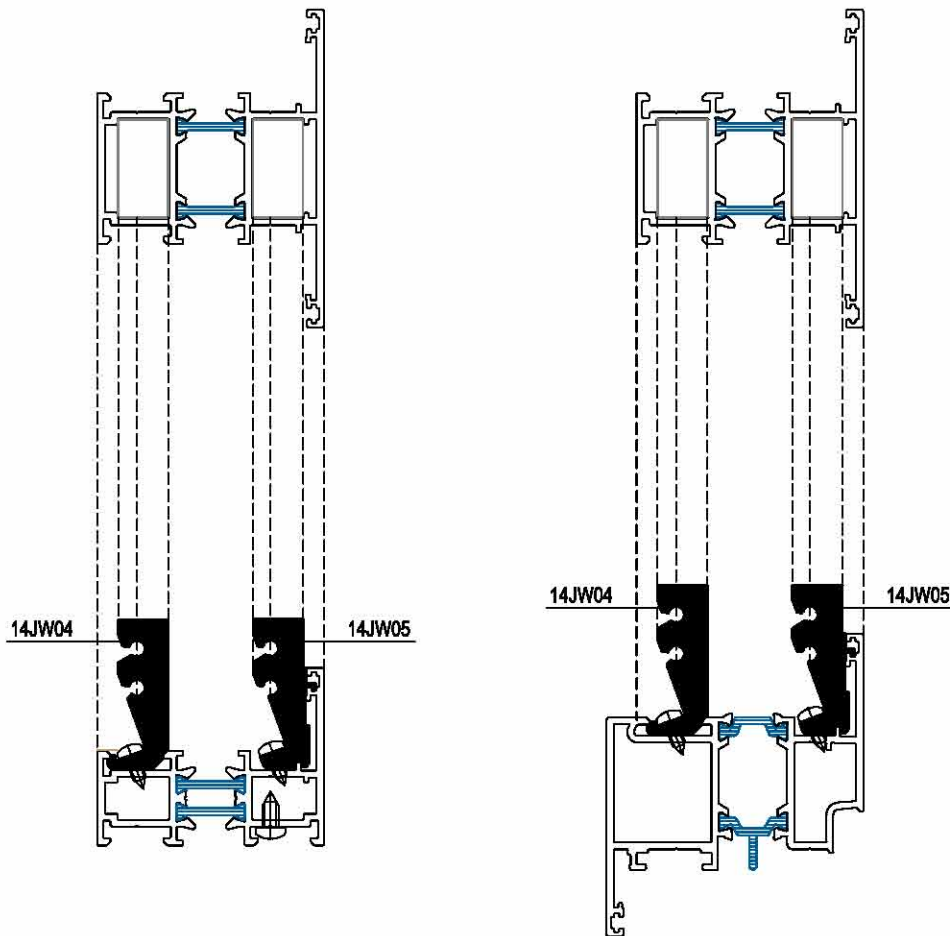
T JUNCTION



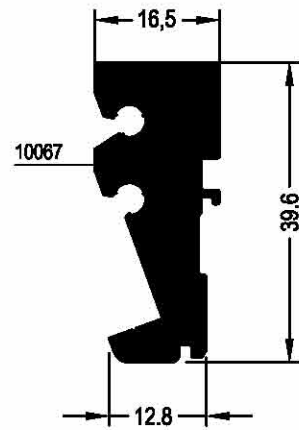
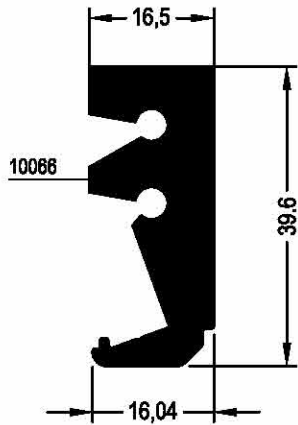
T JUNCTION 13.2 / 39.6

T JUNCTION 13.2 / 39.6

PROFILE CODE	<b>14JW04</b>	PRES	THEORETICAL WEIGHT kg/mt	PROFILE CODE	<b>14JW05</b>	PRES	THEORETICAL WEIGHT kg/mt
			<b>1.056</b>				<b>1.056</b>



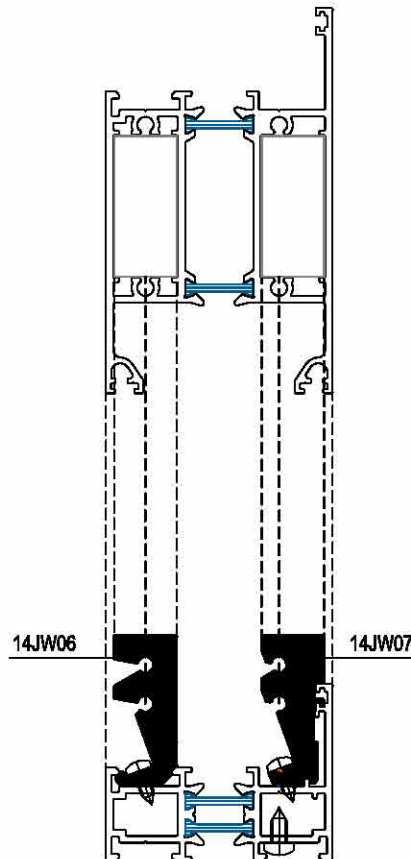
T JUNCTION



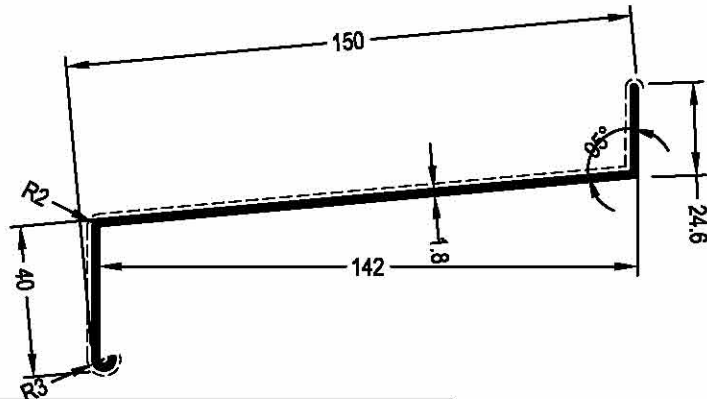
T JUNCTION 16.5 / 39.6

T JUNCTION 16.5 / 39.6

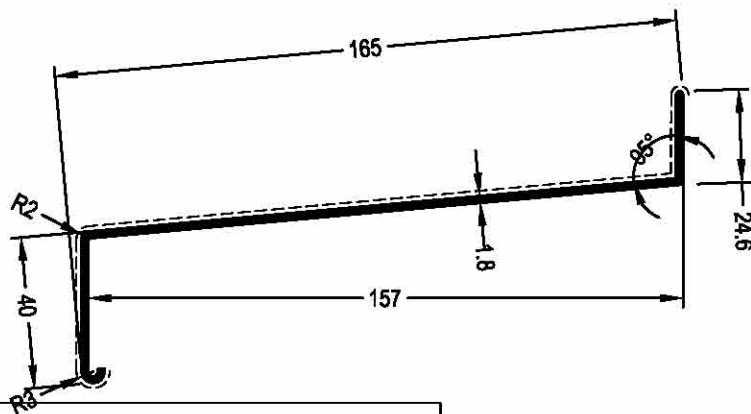
PROFILE CODE	<b>14JW06</b>	PRES	THEORETICAL WEIGHT kg/mt	PROFILE CODE	<b>14JW07</b>	PRES	THEORETICAL WEIGHT kg/mt
			<b>1.164</b>				<b>1.170</b>



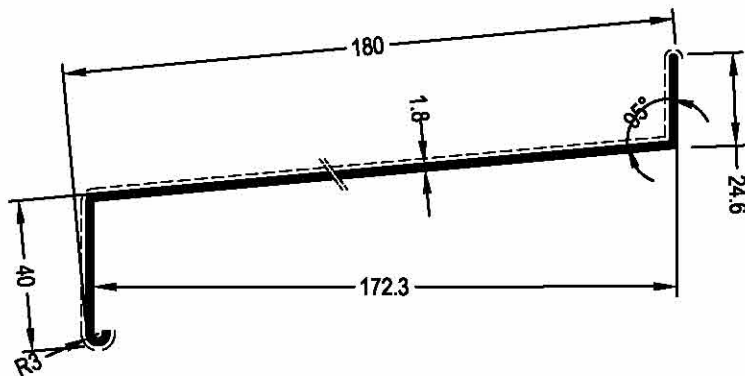
SILL PROFILE



SILL PROFILE		40 / 150
PROFILE CODE	6707	THEORETICAL WEIGHT kg/mt
		1.011



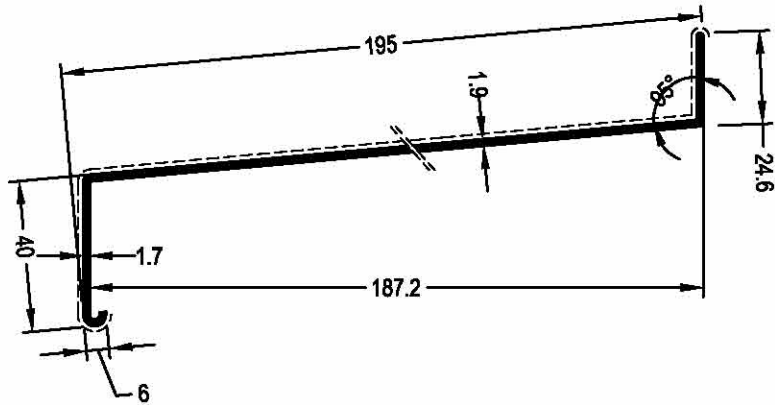
SILL PROFILE		40 / 165
PROFILE CODE	6706	THEORETICAL WEIGHT kg/mt
		1.084



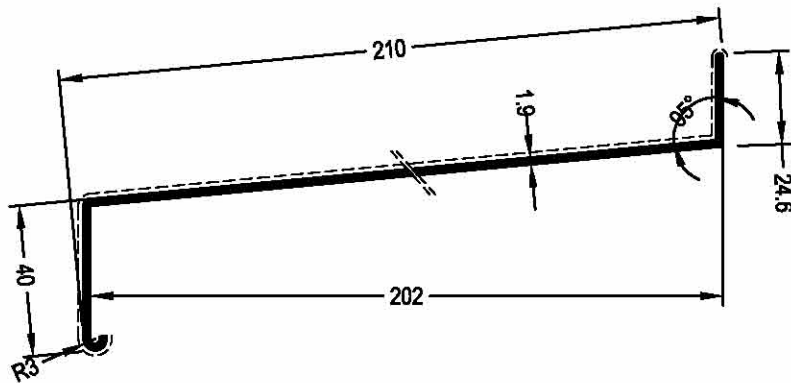
SILL PROFILE		40 / 180
PROFILE CODE	6705	THEORETICAL WEIGHT kg/mt
		1.157



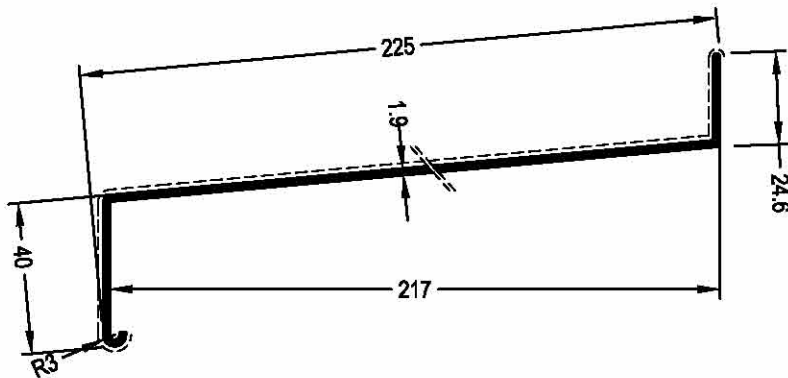
SILL PROFILE



SILL PROFILE		40 / 195
PROFILE CODE	6704	THEORETICAL WEIGHT kg/mt
		1.292

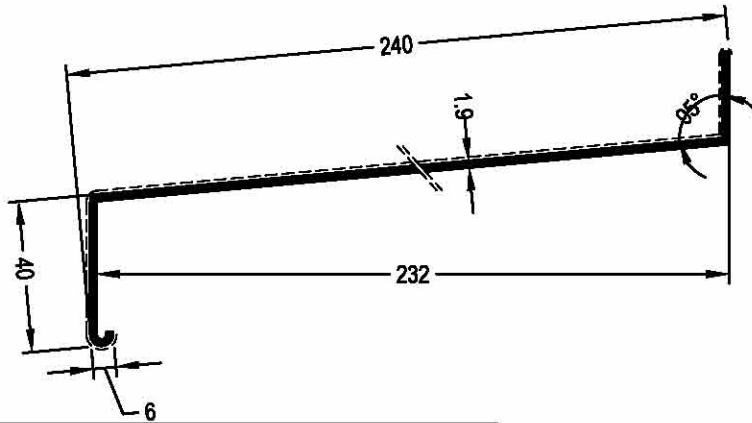


SILL PROFILE		40 / 210
PROFILE CODE	6703	THEORETICAL WEIGHT kg/mt
		1.589

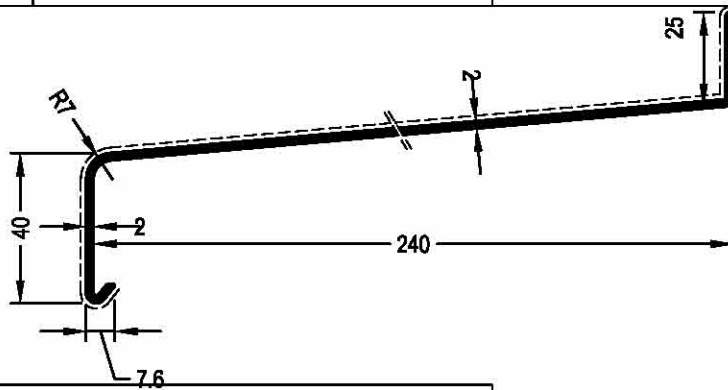


SILL PROFILE		40 / 225
PROFILE CODE	6702	THEORETICAL WEIGHT kg/mt
		1.446

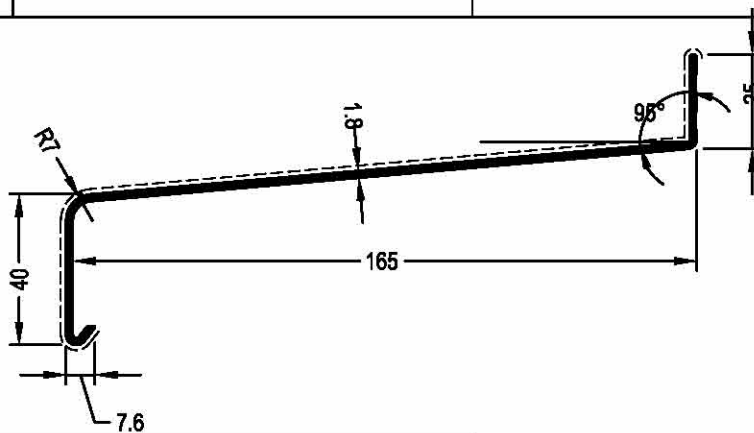
SILL PROFILE



SILL PROFILE		40 / 240
PROFILE CODE	6701	THEORETICAL WEIGHT kg/mt
		1.522

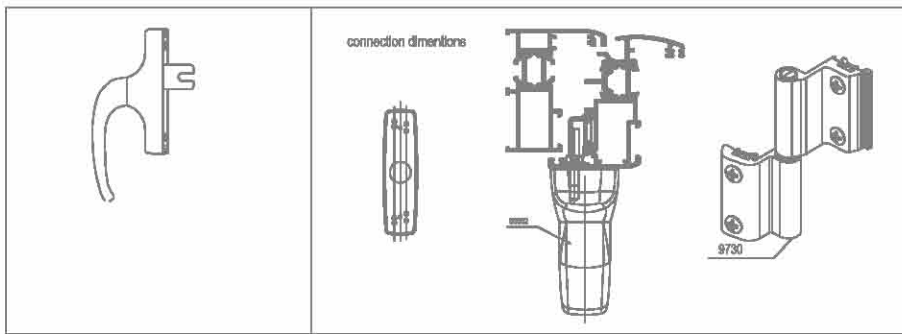


SILL PROFILE		40 / 240
PROFILE CODE	6711	THEORETICAL WEIGHT kg/mt
		1.645

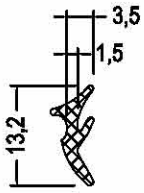
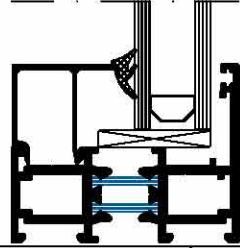
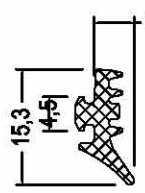
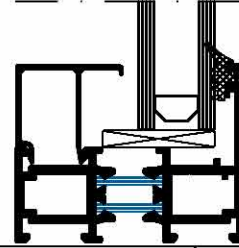
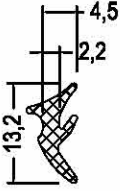
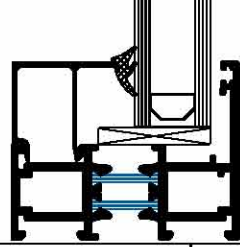
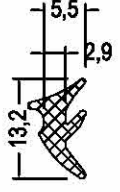
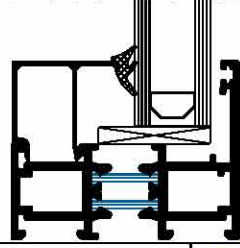
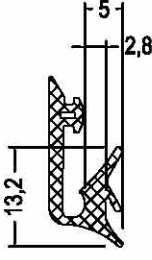
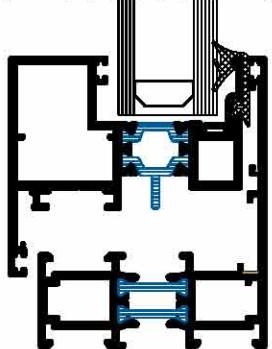


SILL PROFILE		40 / 165
PROFILE CODE	6712	THEORETICAL WEIGHT kg/mt
		1.119

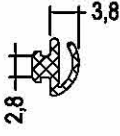
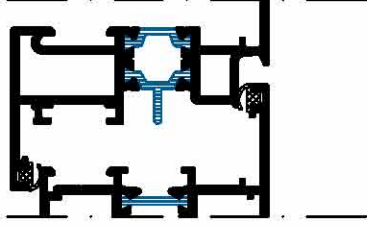
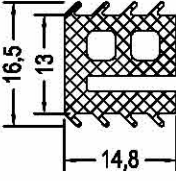
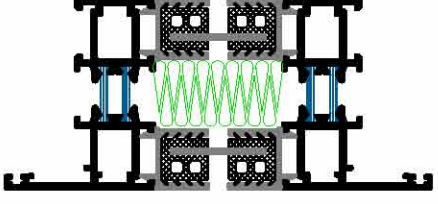
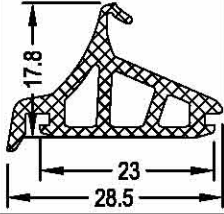
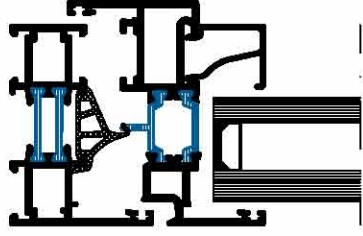
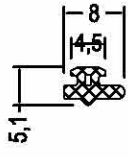
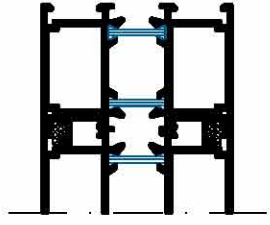
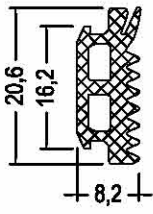
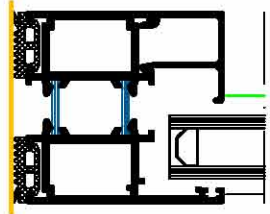
## c - ACCESSORIES



E.P.D.M. GASKETS

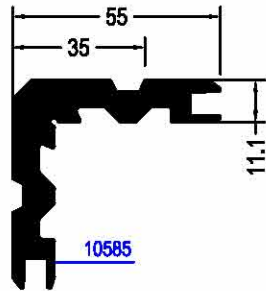
			
<p><b>11A1101</b></p>	<p>Glazing Gasket Inside</p> <p>300 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt</p> <p><b>0.050 kg/mt</b></p>	<p><b>11A2701</b></p> <p>Glazing Gasket Outside</p> <p>270 m in one package</p>
<p><b>MATERIALS</b></p>	<p>E.P.D.M.</p>		<p><b>MATERIALS</b></p> <p>E.P.D.M.</p>
			
<p><b>11A1102</b></p>	<p>Glazing Gasket Inside</p> <p>250 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt</p> <p><b>0.060 kg/mt</b></p>	
<p><b>MATERIALS</b></p>	<p>E.P.D.M.</p>		
			
<p><b>11A1103</b></p>	<p>Glazing Gasket Inside</p> <p>215 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt</p> <p><b>0.070 kg/mt</b></p>	
<p><b>MATERIALS</b></p>	<p>E.P.D.M.</p>		
			
<p><b>11A1104</b></p>	<p>Glazing Gasket Inside</p> <p>158 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt</p> <p><b>0.095 kg/mt</b></p>	
<p><b>MATERIALS</b></p>	<p>E.P.D.M.</p>		

E.P.D.M. GASKETS

					
<p><b>11A1301</b></p>	<p><b>Acoustical Gasket</b> 375 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt <b>0.040 kg/mt</b></p>	<p><b>11A1706</b></p>	<p><b>Gaskets for Adapter Profile</b> 73 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt <b>0.205 kg/mt</b></p>
<p>MATERIALS</p>	<p>E.P.D.M.</p>		<p>MATERIALS</p>	<p>E.P.D.M.</p>	
					
<p><b>11A1406</b></p>	<p><b>Central Gasket</b> 79 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt <b>0.190 kg/mt</b></p>	<p><b>11A1502</b></p>	<p><b>Gaskets for Adapter Profile</b> 517 m in one package</p>	<p>THEORETICAL WEIGHT gr/mt <b>0.029 kg/mt</b></p>
<p>MATERIALS</p>	<p>E.P.D.M.</p>		<p>MATERIALS</p>	<p>E.P.D.M.</p>	
					
			<p><b>11A1503</b></p>	<p><b>Gaskets for Adapter Profile</b> 128 m in one package</p>	<p>THEORETICAL WEIGHT kg/mt <b>0.155 kg/mt</b></p>
			<p>MATERIALS</p>	<p>E.P.D.M.</p>	

CORNER CLEATS

DRAWING / INFORMATION

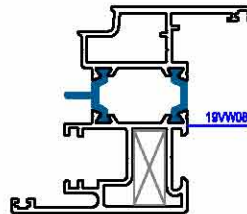
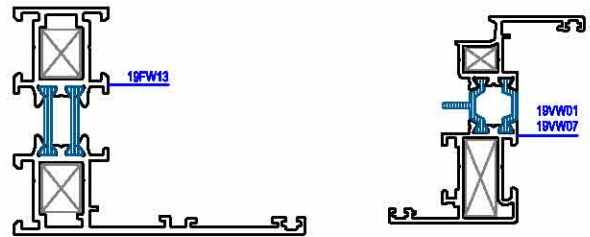
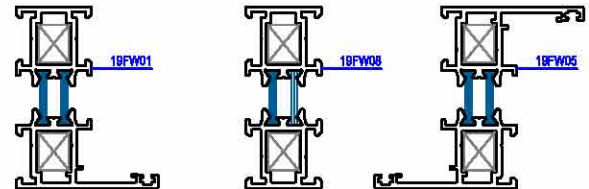


\* pressed profile

CORNER CLEATS WITH PRES 11.1 / 55

PROFILE CODE	14LW14	PRES	THEORETICAL WEIGHT kg/mt
			2.154
APPLICATION PROFILES	Cutting Sizes ( mm )	PIECE CODE NUMBER	
19FW01	10200	13.3 mm	----
	10201		----
19FW05	10200	13.3 mm	----
	10200		----
19FW08	10201	13.3 mm	----
	10201		----
19FW13	10201	13.3 mm	----
	10272		----
19VW01	10207	8.0 mm	----
	10206	25.4 mm	----
19VW07	10228	8.4 mm	----
	10224	26.0 mm	----
19VW08	10209	----	----
	10243	25.4 mm	----
19MW01	10201	13.3 mm	----
	10225		----
19MW14	10201	13.3 mm	----
	x1		----

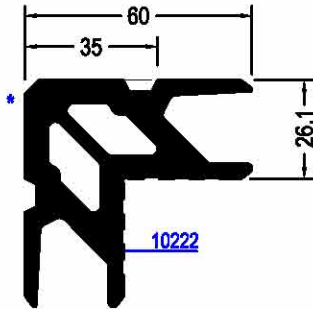
APPLICATION






CORNER CLEATS

DRAWING / INFORMATION

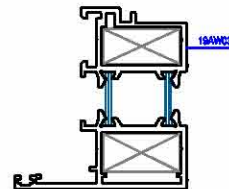
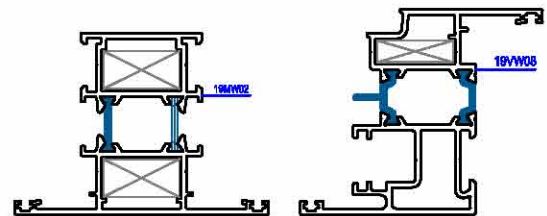
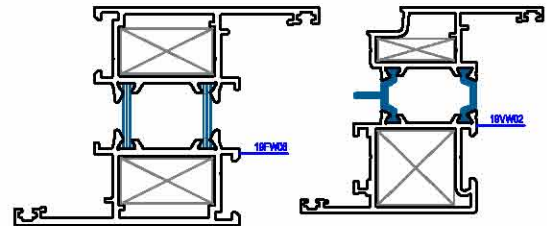
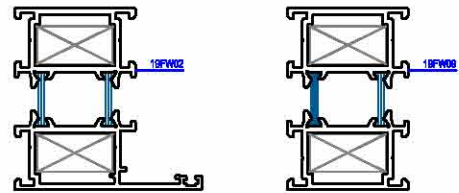


\* pressed profile

CORNER CLEATS WITH PRES 26.1 / 60

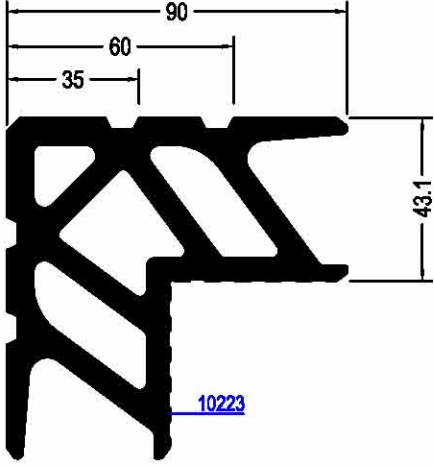
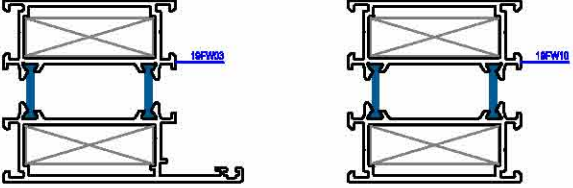
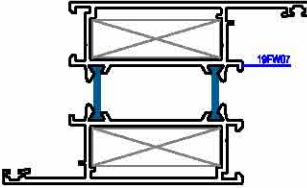
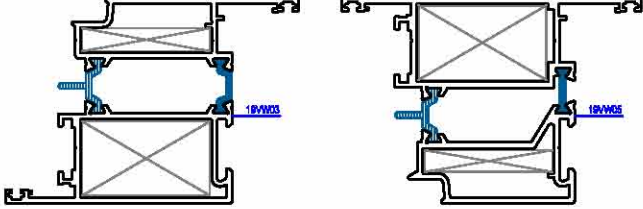

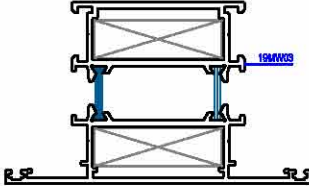
PROFILE CODE	14LW32	PRES	THEORETICAL WEIGHT kg/m
			3.363
APPLICATION PROFILES	Cutting Sizes (mm)	PIECE CODE NUMBER	
19FW02	10203	13.3 mm	----
	10202		----
19FW06	10202	13.3 mm	----
	10202		----
19FW09	10203	13.3 mm	----
	10203		----
19VW02	10209	8.0 mm	----
	10208	25.4 mm	----
19VW08	10209	8.0 mm	----
	10243	----	----
19VW11	10209	8.0 mm	----
	10280	----	----
19MW02	10203	13.3 mm	----
	10214		----
19AW03	10249	12.3 mm	----
	10250	13.3 mm	----

APPLICATION



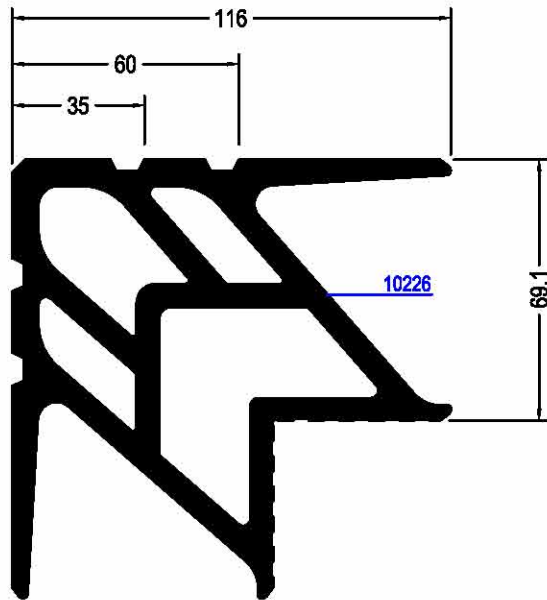


CORNER CLEATS

DRAWING / INFORMATION				APPLICATION	
					
* pressed profile					
CORNER CLEATS WITH PRES 43.1 / 90					
PROFILE CODE	14LW33	PRES	THEORETICAL WEIGHT kg/mt		
			7.344		
APPLICATION PROFILES	Cutting Sizes ( mm )	PIECE CODE NUMBER			
19FW03	10205	13.3 mm	----		
	10204				
19FW07	10204	13.3 mm	----		
	10204				
19FW10	10205	13.3 mm	----		
	10205				
19VW03	10211	8.0 mm	----		
	10210	25.4 mm	----		
19VW05	10240	25.4 mm	----		
	10239	8.0 mm	----		
19MW03	10205	13.3 mm	----		
	10215				
					

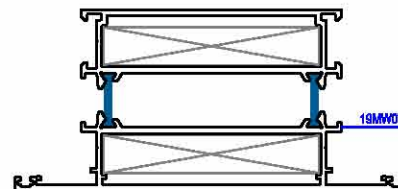
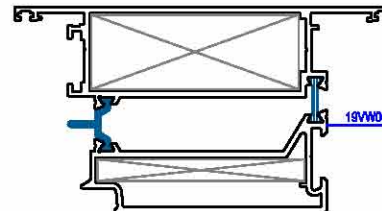
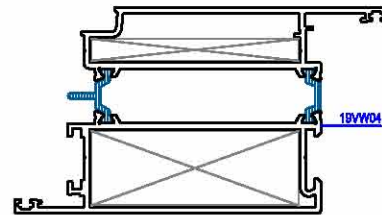
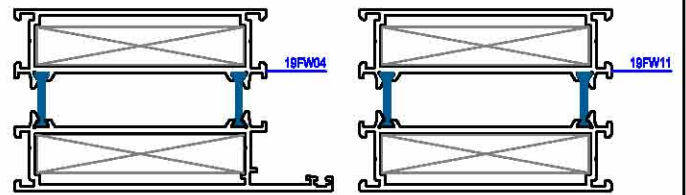
CORNER CLEATS

DRAWING / INFORMATION




\* pressed profile

APPLICATION



CORNER CLEATS WITH PRES 69.1 / 116

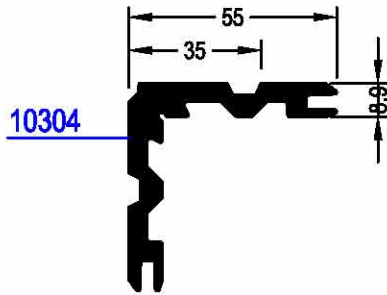
PROFILE CODE	14LW34	PRES	THEORETICAL WEIGHT kg/m
			10.235
APPLICATION PROFILES	Cutting Sizes (mm)	PIECE CODE NUMBER	
19FW04	10230	13.3 mm	—
	10231		—
19FW11	10230	13.3 mm	—
	10230		—
19VW04	10213	8.0 mm	—
	10212	25.4 mm	—
19VW06	10242	25.4 mm	—
	10241	8.0 mm	—
19MW07	10244	13.3 mm	—
	10245		—

CORNER CLEATS

DRAWING / INFORMATION				APPLICATION			
<p>10105</p>				<p>10584</p>			
<p>19VW11</p>				<p>19AW18 19AW17</p>			
* pressed profile				* pressed profile			
CORNER CLEATS WITH PRES 19.5 / 65				CORNER CLEATS WITH PRES 15 / 60			
PROFILE CODE	14LW35	PRES	THEORETICAL WEIGHT kg/mt	PROFILE CODE	14LW13	PRES	THEORETICAL WEIGHT kg/mt
			4.270				2.488
APPLICATION PROFILES	Cutting Sizes ( mm )	PIECE CODE NUMBER		APPLICATION PROFILES	Cutting Sizes ( mm )	PIECE CODE NUMBER	
19VW11	10209	----	----	19AW17	10296	14.8 mm	----
	10280	25.4 mm	----		10297	26.8 mm	----
				19AW18	10298	26.8 mm	----
					10299	7.0 mm	----

CORNER CLEATS

DRAWING / INFORMATION

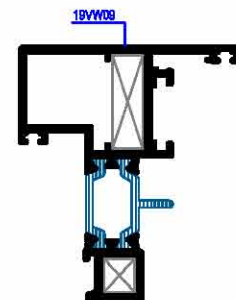


\* pressed profile

CORNER CLEATS WITH PRES 08.9 / 55

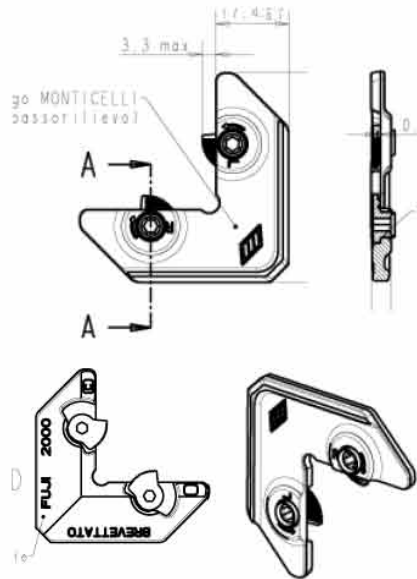
PROFILE CODE	14LW45	PRES	THEORETICAL WEIGHT kg/m
			1.672
APPLICATION PROFILES		Cutting Sizes (mm)	PIECE CODE NUMBER 
19VW09	10270	09.5 mm	—
	10271	25.4 mm	—

APPLICATION

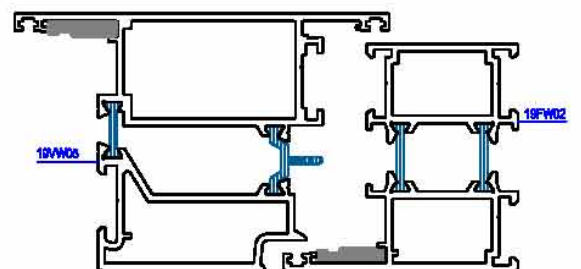
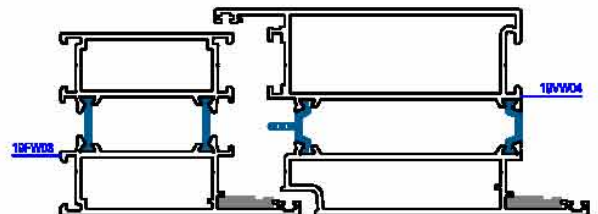
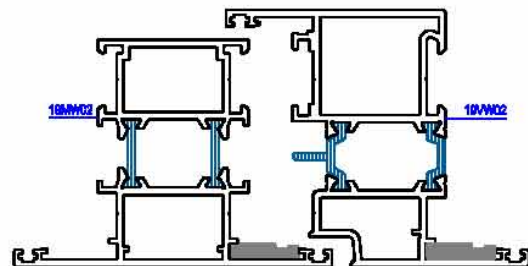
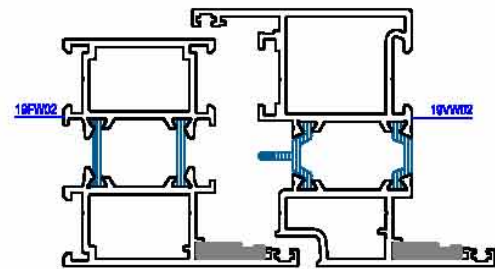
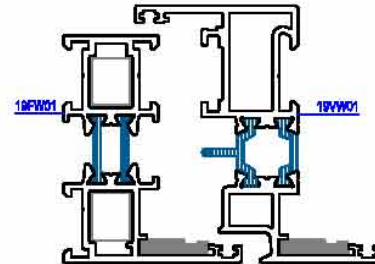


CORNER CLEATS

DRAWING / INFORMATION



APPLICATION



CODE FUJI 2000 Aluminium Corner Joint with nut

APPLICATION PROFILES

- 17FW01,17FW02,17FW03,17FW04,17FW05,17FW08
- 17FW07,17FW12,17FW13,17FW14
- 17VW01,17VW02,17VW03,17VW04,17VW05,17VW08
- 17VW07,17VW08
- 17MW01,17MW02,17MW03,17MW07

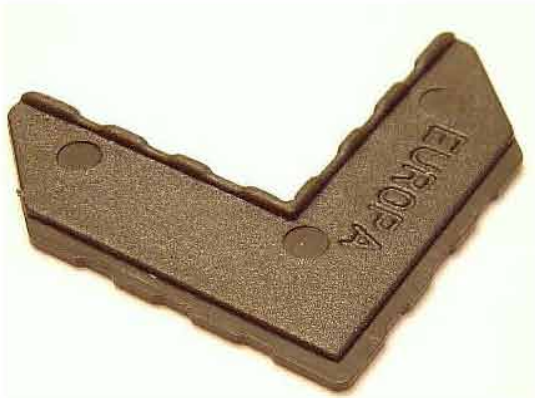
MATERIALS

Die -Cast Corner Joint

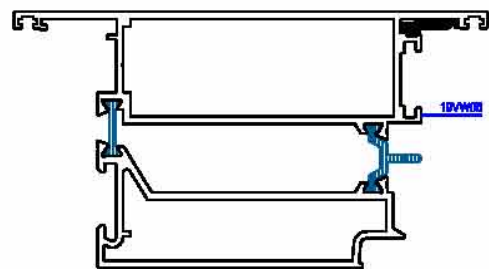
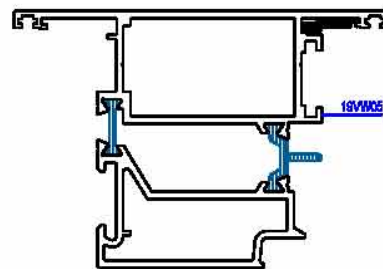
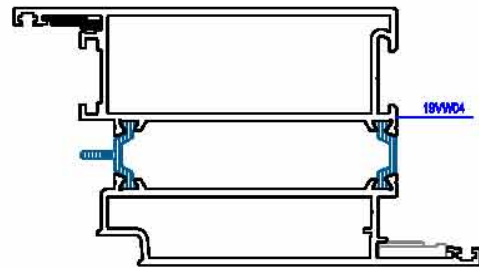
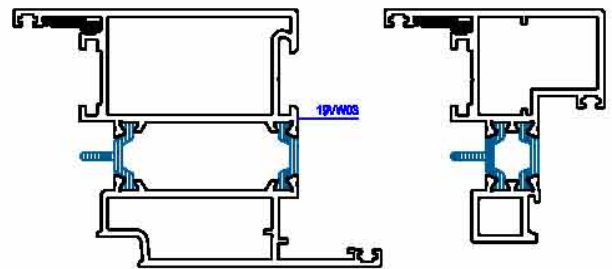
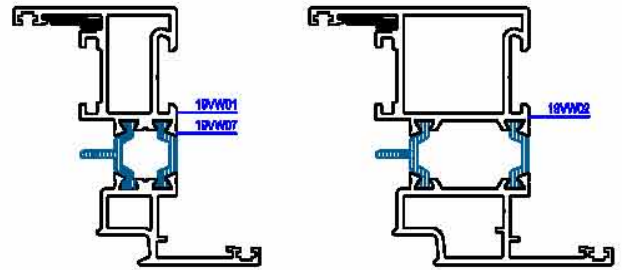


CORNER CLEATS

DRAWING / INFORMATION



APPLICATION

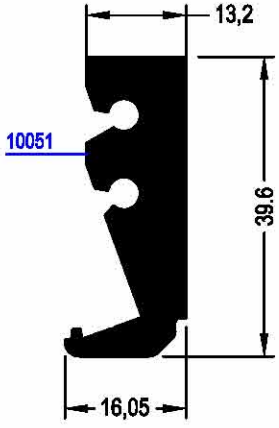
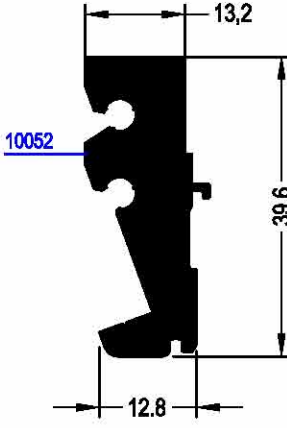




CODE	MO20	Plastic Corner Joint
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APPLICATION PROFILES	17'VW01, 17'VW02, 17'VW03, 17'VW04, 17'VW05, 17'VW06 17'VW07, 17'VW09
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MATERIALS	Black nylon
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T JUNCTION

DRAWING / INFORMATION				APPLICATION			
 <p>10051</p>				 <p>10052</p>			
* pressed profile				* pressed profile			
T JUNCTION		13.2 / 39.6		T JUNCTION		13.2 / 39.6	
PROFILE CODE	14JW04	PRES	THEORETICAL WEIGHT kg/mt 1.056	PROFILE CODE	14JW05	PRES	THEORETICAL WEIGHT kg/mt 1.056
APPLICATION PROFILES	Cutting Sizes ( mm )		PIECE CODE NUMBER 	APPLICATION PROFILES	Cutting Sizes ( mm )		PIECE CODE NUMBER 
19MW01	10201	11.0 mm	---	19MW01	10225	11.0 mm	---
19MW02	10203	26.0 mm	---	19MW02	10214	26.0 mm	---
19MW03	10205	43.0 mm	---	19MW03	10215	43.0 mm	---
19MW07	10244	72.0 mm	---	19MW07	10245	72.0 mm	---
19MW15	10201	11.0 mm	---	19MW15	X2	11.0 mm	---
19MW16	X3	31.0 mm	---	19MW16	X4	31.0 mm	---
19MW08	10203	26.0 mm	---	19MW16	10232	31.0 mm	---
19MW10	10205	43.0 mm	---	19MW10	10233	43.0 mm	---
19MW12	10236	26.0 mm	---	19MW12	10214	26.0 mm	---
19MW13	10229	43.0 mm	---	19MW13	10215	43.0 mm	---
19AW14	XXXX	11.0 mm	---	19AW14	10201	11.0 mm	---

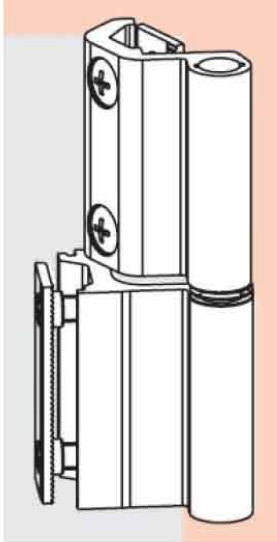


CORNER CLEATS

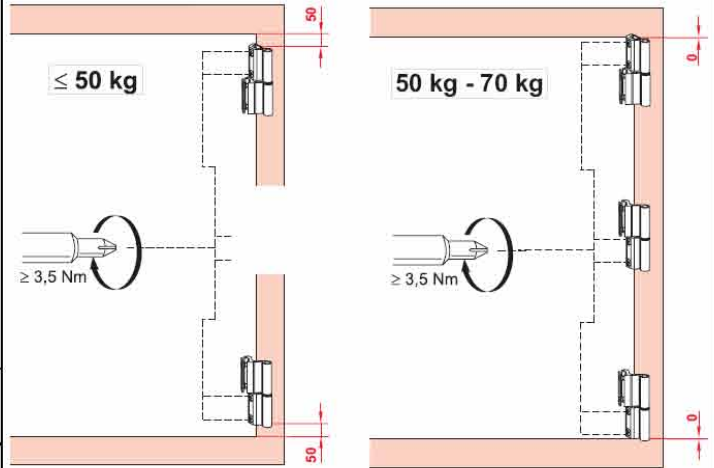
DRAWING / INFORMATION				APPLICATION			
* pressed profile				* pressed profile			
T JUNCTION		16.5 / 39.6		T JUNCTION		16.5 / 39.6	
PROFILE CODE	14JW06	PRES	THEORETICAL WEIGHT kg/mt 1.164	PROFILE CODE	14JW07	PRES	THEORETICAL WEIGHT kg/mt 1.170
APPLICATION PROFILES		Cutting Sizes ( mm )	PIECE CODE NUMBER	APPLICATION PROFILES		Cutting Sizes ( mm )	PIECE CODE NUMBER
17KW01	10263	37.2 mm	-----	17KW01	10264	37.2 mm	-----
17KW02	10265	69.2 mm	-----	17KW02	10266	69.2 mm	-----
17KW03	10267	95.2 mm	-----	17KW03	10268	95.2 mm	-----

HINGES

DRAWING / INFORMATION



APPLICATION



CODE 14A1701 Window Hinge

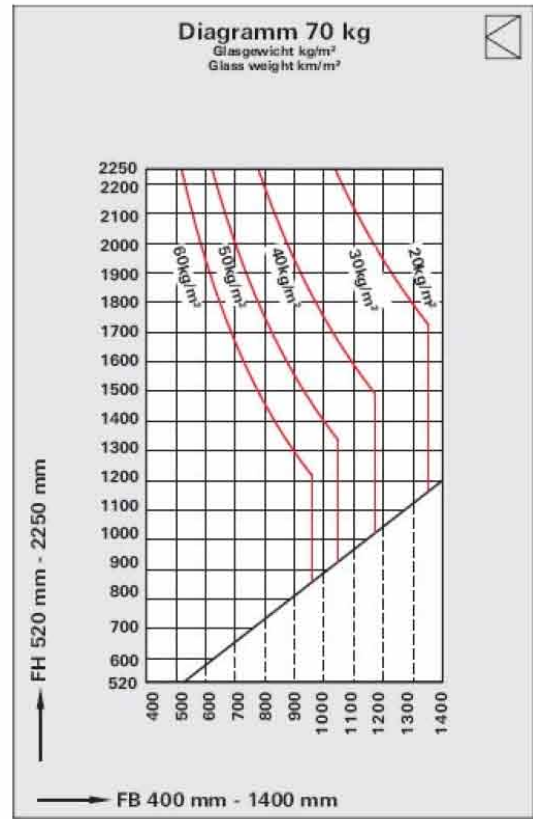
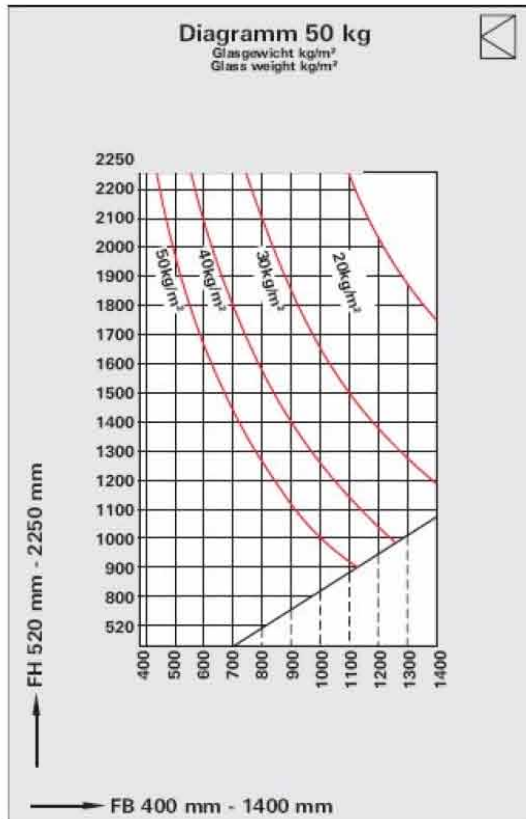
COLOURS White (RAL 9016), Black (RAL 9005)

Anodized silver

MATERIALS Black nylon bush, Hinges in extruded aluminium  
Galvanized steel pin  
Galvanized die cast zinc alloy

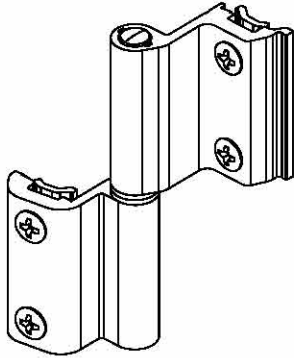
CAPACITIES 2 hinges : 50 kg  
3 hinges : 70 kg

ROTO FRANK

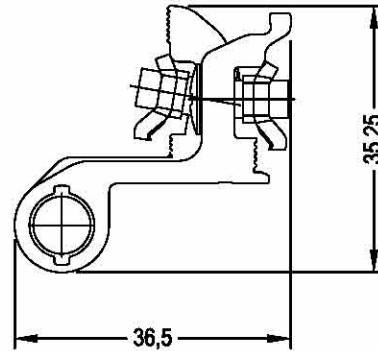


HINGES

DRAWING / INFORMATION



APPLICATION



CODE 9730 Window Hinge

COLOURS White ( RAL 9016 ), Black ( RAL 9005 )

MATERIALS Hinges in extruded aluminium

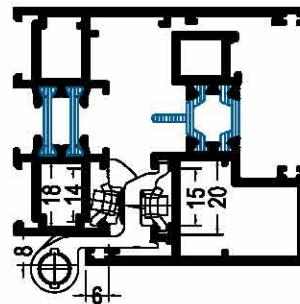
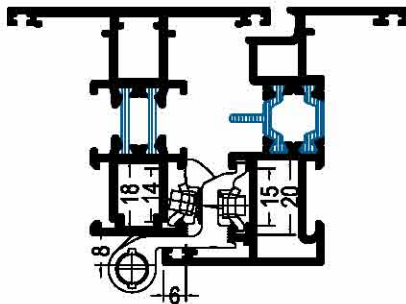
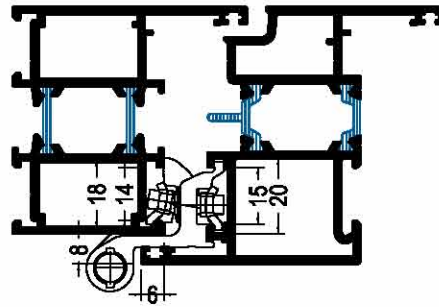
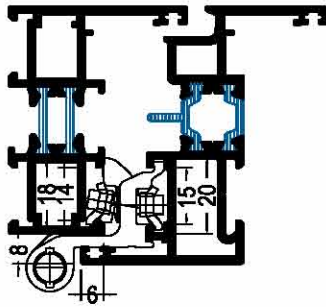
Black nylon bush

Galvanized steel pin

Galvanized die cast zinc alloy

CAPACITIES 2 hinges : 80 kg

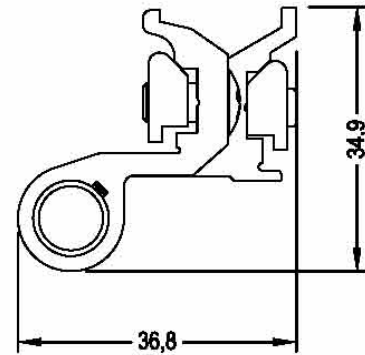
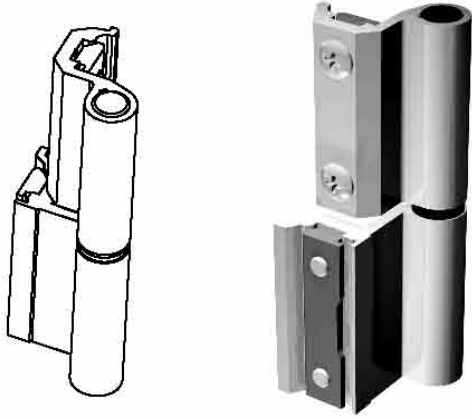
3 hinges : 90 kg



HINGES

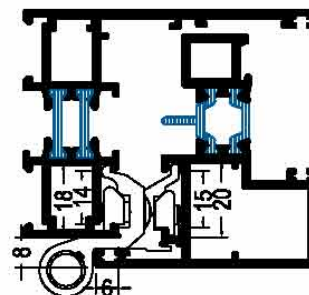
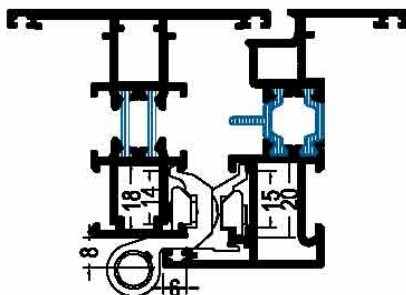
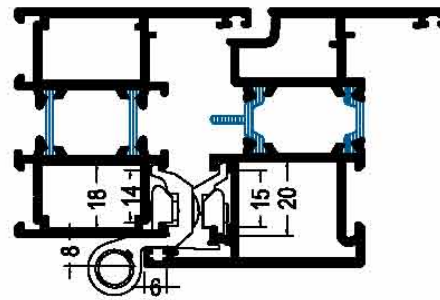
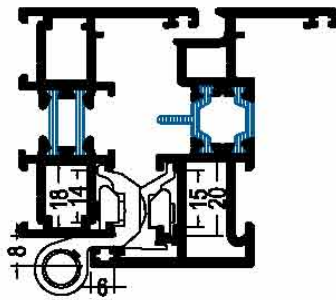
DRAWING / INFORMATION

APPLICATION



CODE M10 PR Window Hinge

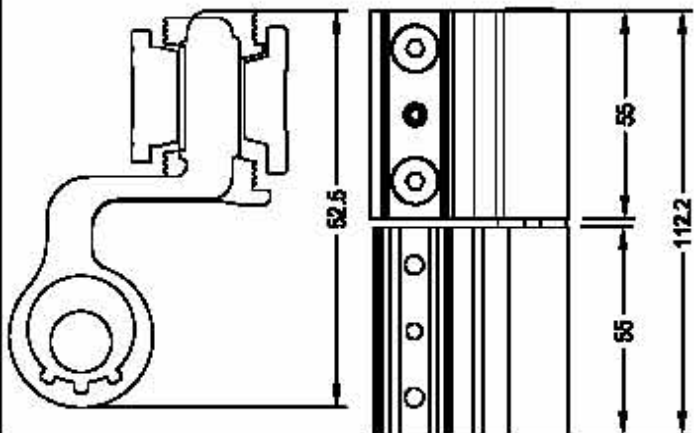
COLOURS	White ( RAL 9016 ) , Black ( RAL 9005 )
	Electrostatic painted in RAL colours
	Anodized silver and bronze
MATERIALS	Hinges in extruded aluminium , 48 mm length
	Black nylon bush
	Galvanized steel pin
	Galvanized die cast zinc alloy , 46.5 mm length
CAPACITIES	2 hinges : 80 kg
	3 hinges : 90 kg



HINGES

DRAWING / INFORMATION

APPLICATION



CODE 5603 Window Hinge

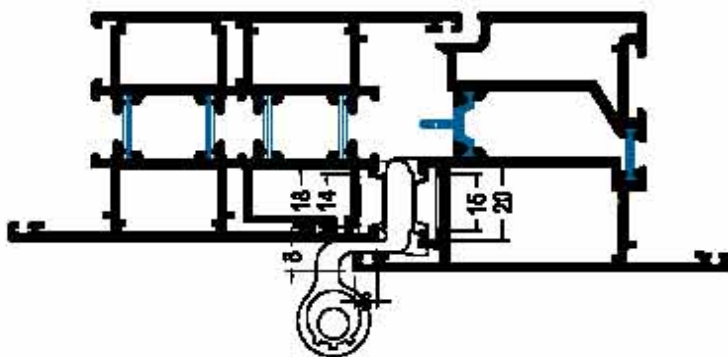
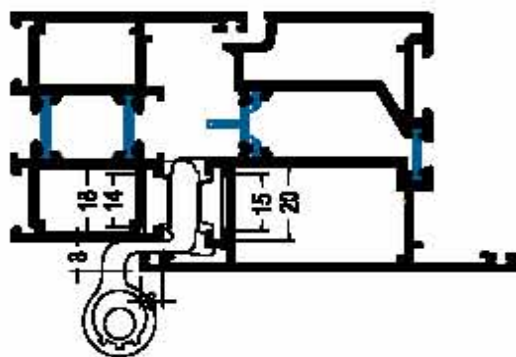
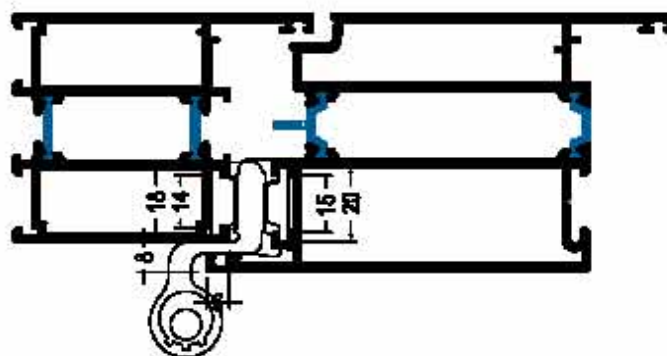
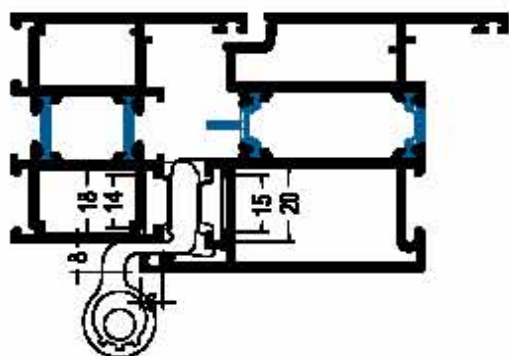
COLOURS White (RAL 9016), Black (RAL 9005)

Hinges in extruded aluminium

Black nylon bush

Galvanized steel pin

Galvanized die cast zinc alloy

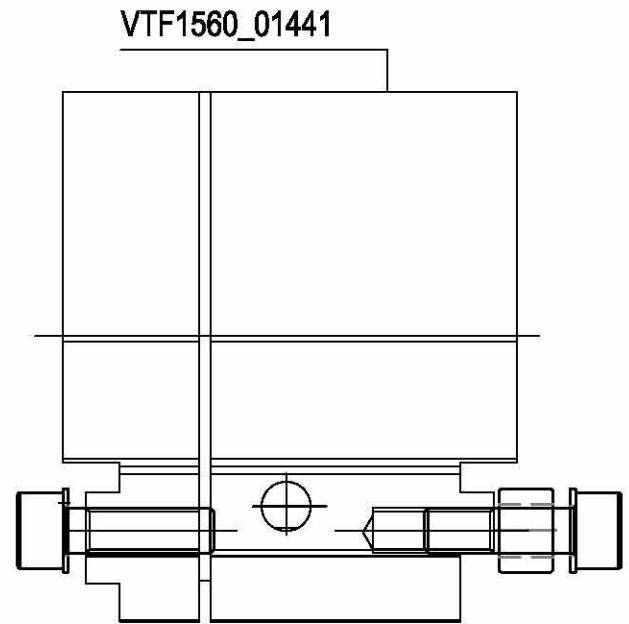




HINGES

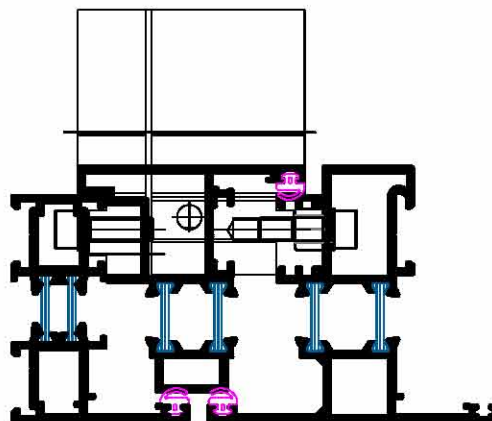
DRAWING / INFORMATION

APPLICATION



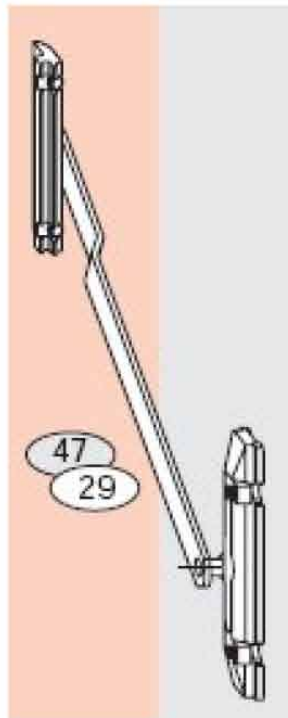
GIESSE VTF1560\_01441

PIVOT Hinge

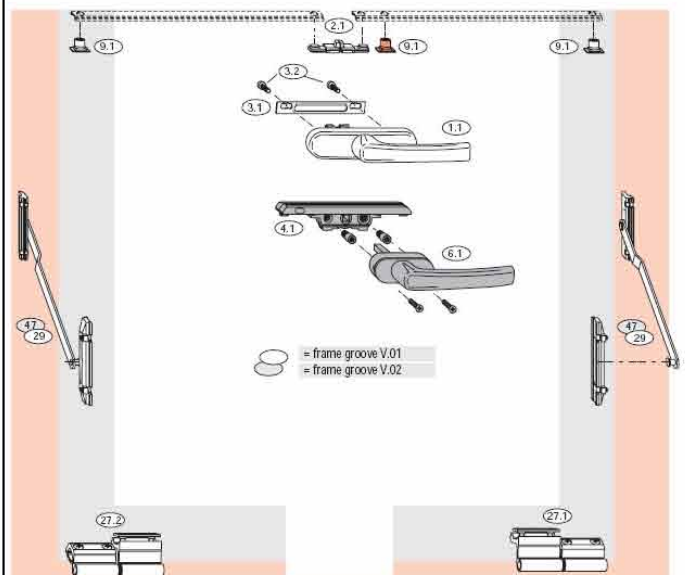


VASISTAS

DRAWING / INFORMATION



APPLICATION



ROTO FRANK

CODE

14A1501

Vasistas

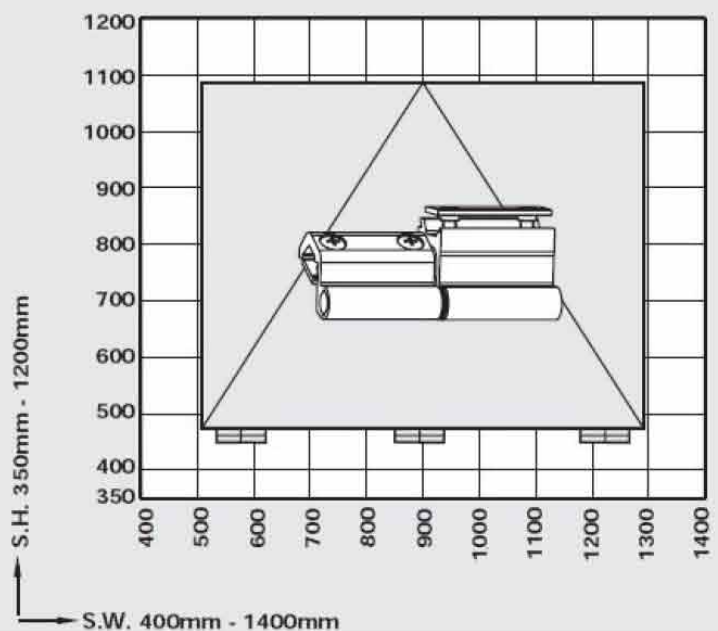


70kg

Limitation of sash formats

S.W. - Sash width 400mm - 1400mm  
 S.H. - Sash height 350mm - 1200mm  
 S.kg.max - Max. sash weight 70kg

The information in the application diagram refers to the glass weight in kg/m<sup>2</sup>.

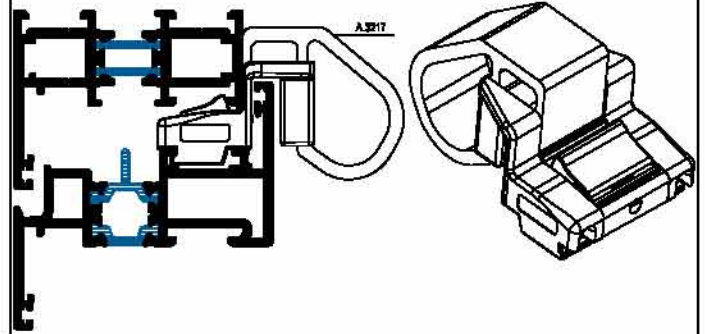
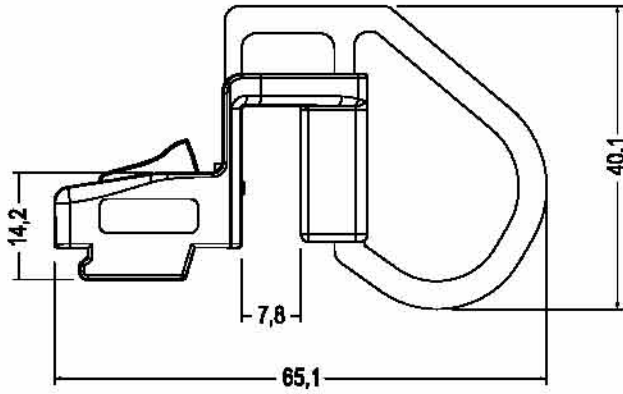




VASISTAS

DRAWING / INFORMATION

APPLICATION



CODE A.3217 Vasistas Spring

COLOURS White ( RAL 9016 ), Black ( RAL 9005 )

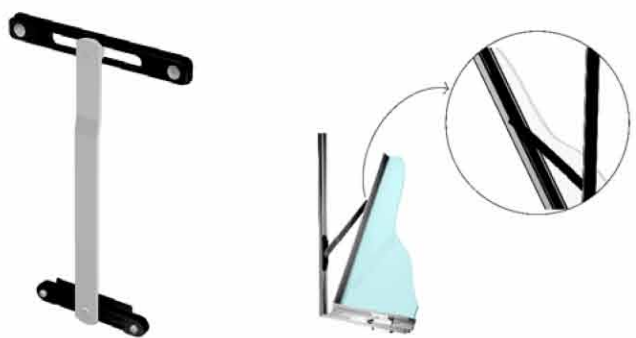
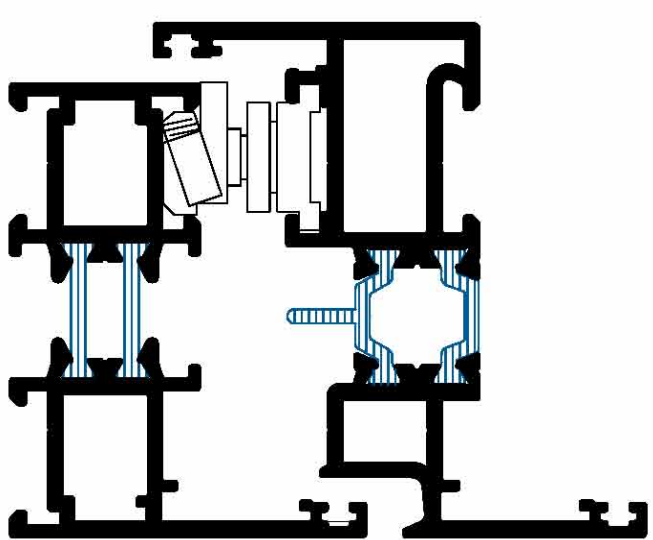

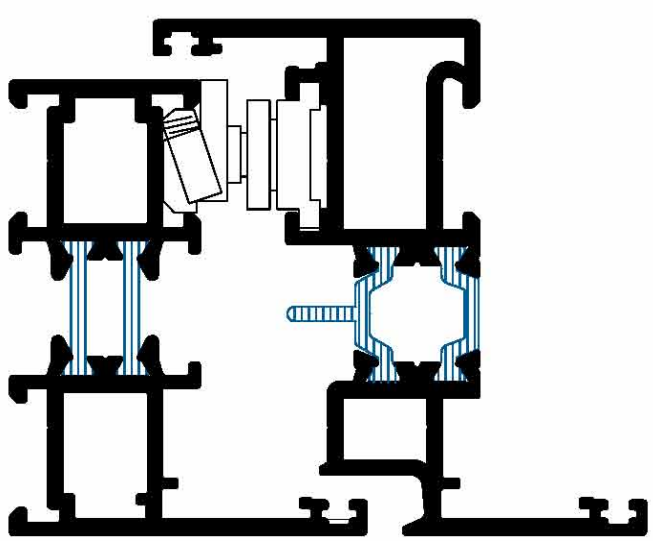


CODE 03209 Vasistas Spring

COLOURS Black

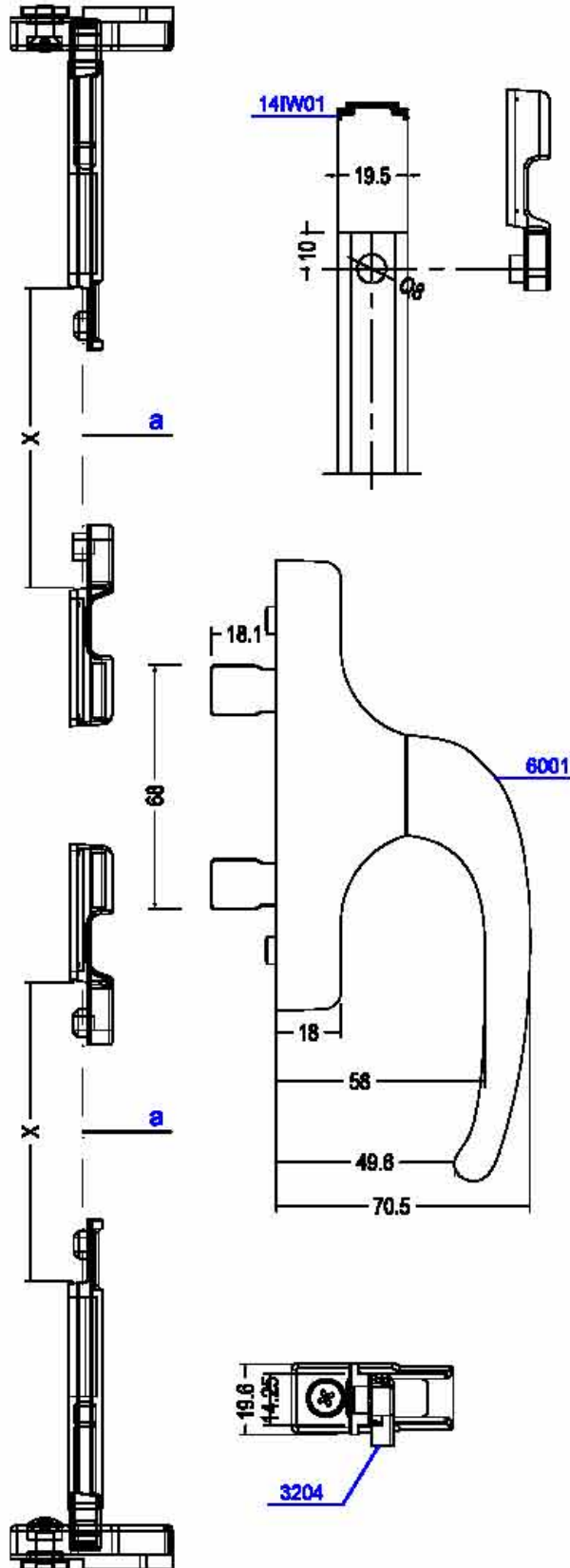
MATERIALS Black nylon

VASISTAS

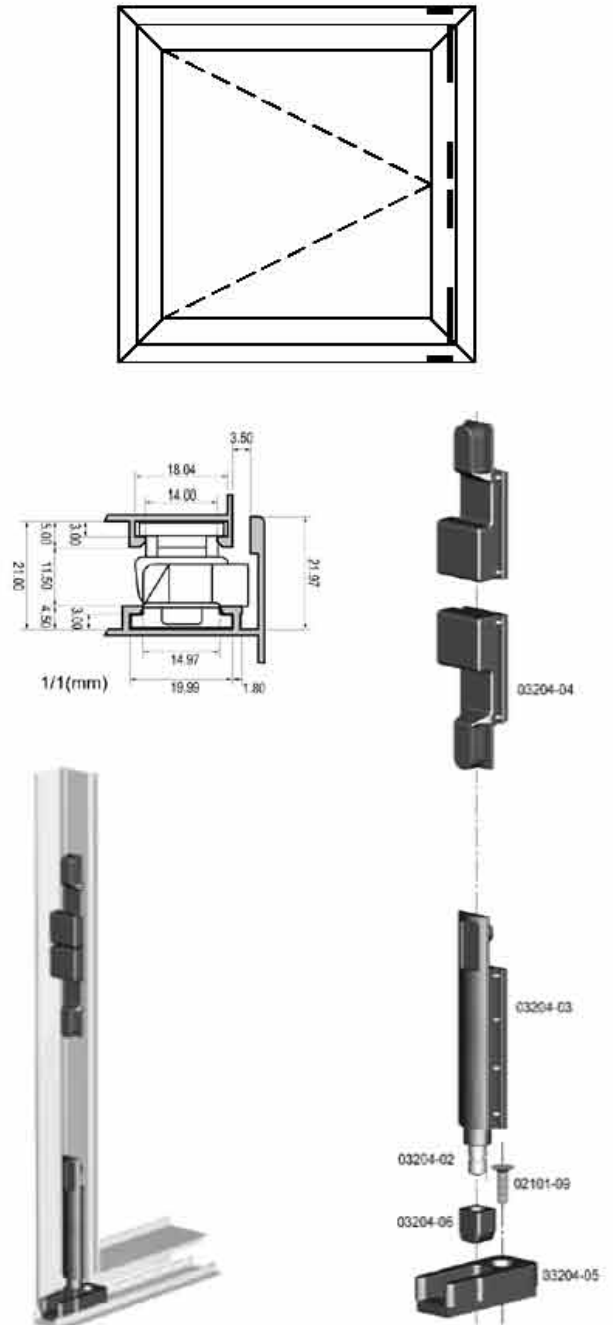
DRAWING / INFORMATION		APPLICATION	
			
CODE	3207		Vasistas
COLOURS	Natural , Anodized silver and bronze Electrostatic painted in RAL colours		
MATERIALS	Extruded aluminium , 209 mm length Black nylon bush Galvanized steel pin		
CAPACITIES	2 hinges : 60 kg 3 hinges : 70 kg		
			
CODE	ERT1861		Vasistas
COLOURS	Natural , Anodized silver and bronze Electrostatic painted in RAL colours		

LOCKING KIT

DRAWING / INFORMATION



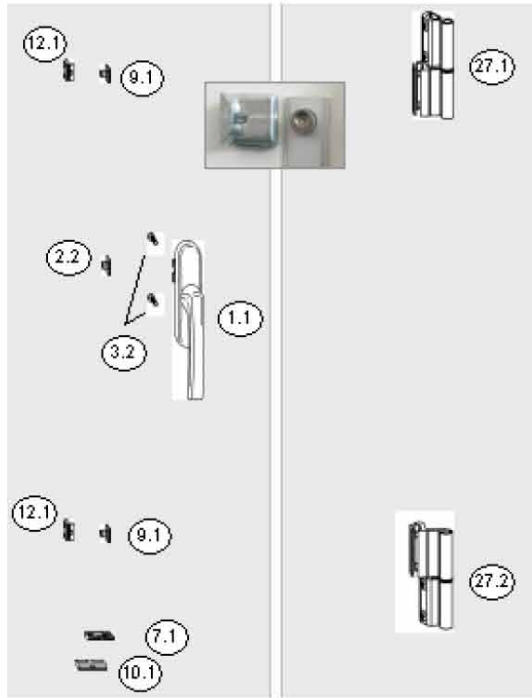
APPLICATION



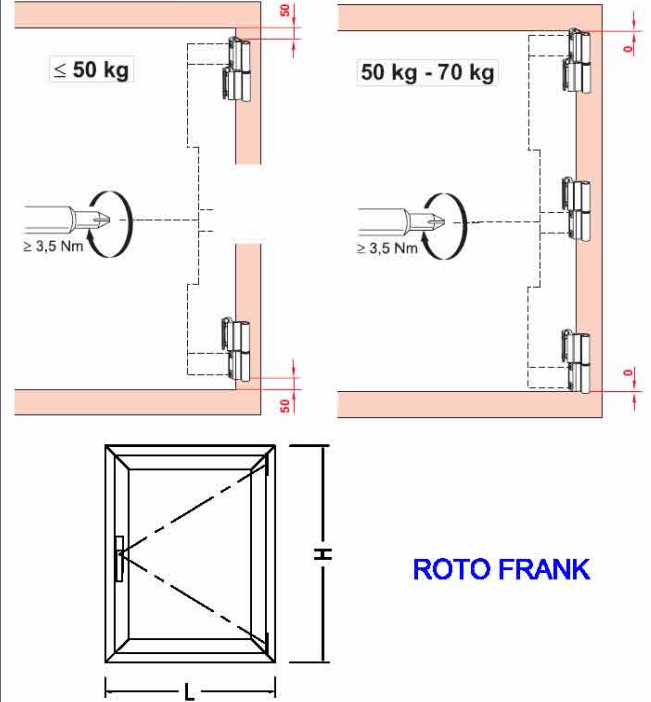
<b>CODE</b>	<b>03204</b>	<b>Locking Kit</b>
<b>COLOURS</b>	Black nylon and galvanized coated Galvanized die-cast zinc alloy	
<b>MATERIALS</b>	Black nylon bush Galvanized steel pin	

TURN WINDOWS MECHANISM

DRAWING



APPLICATION

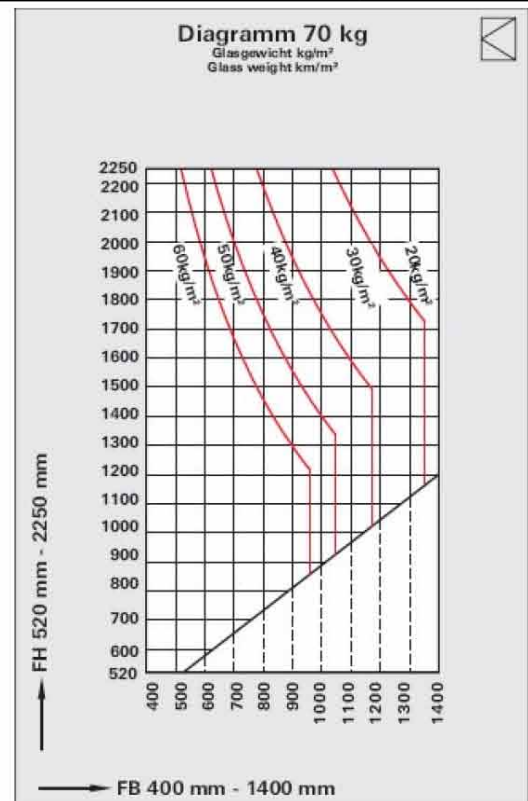
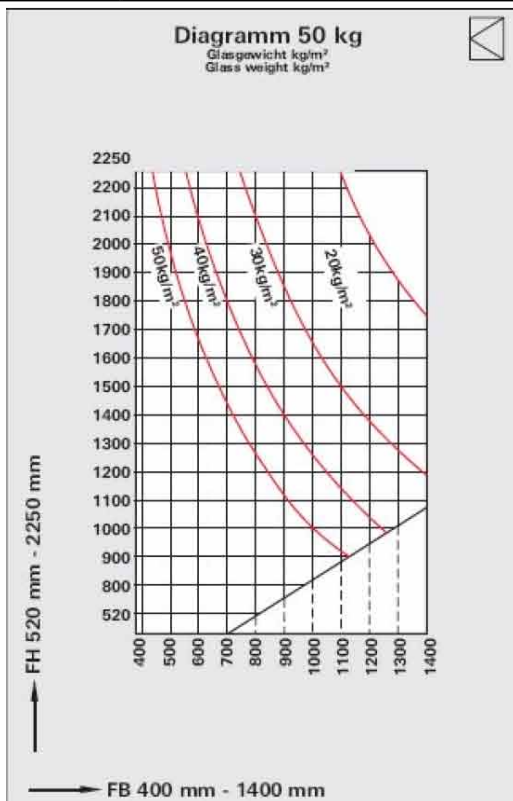


CODE 14A1701 Turn Windows Mechanism

Width L (mm)	Height H (mm)	Weight (kg)
400 mm - 1400 mm	520 mm - 2250 mm	50-70 Kg / m2

CONTENTS

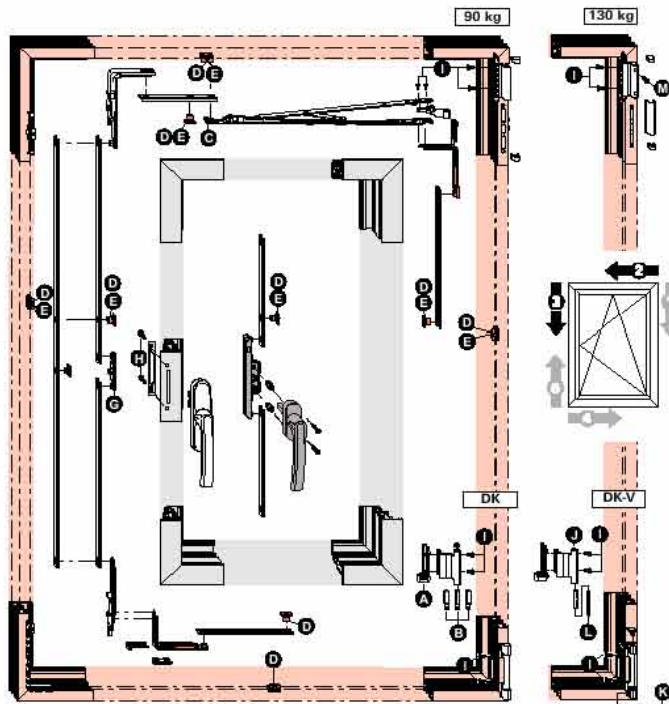
Hinges	2 set.
Handle	1 set.
Locking Group	1 set.



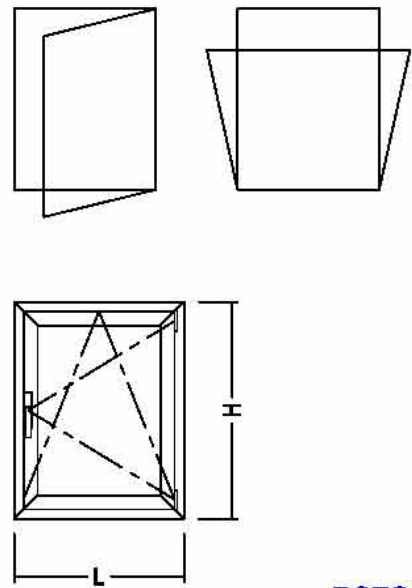


TURN AND TILT MECHANISM

DRAWING



APPLICATION



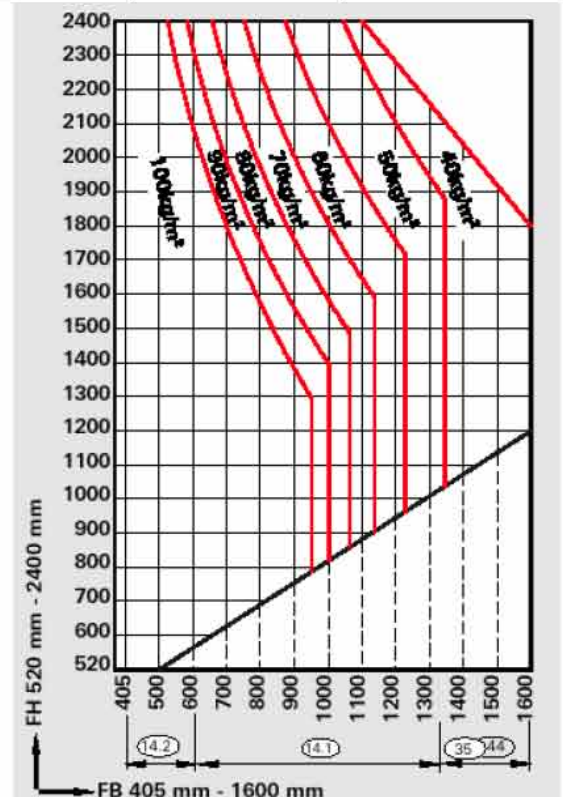
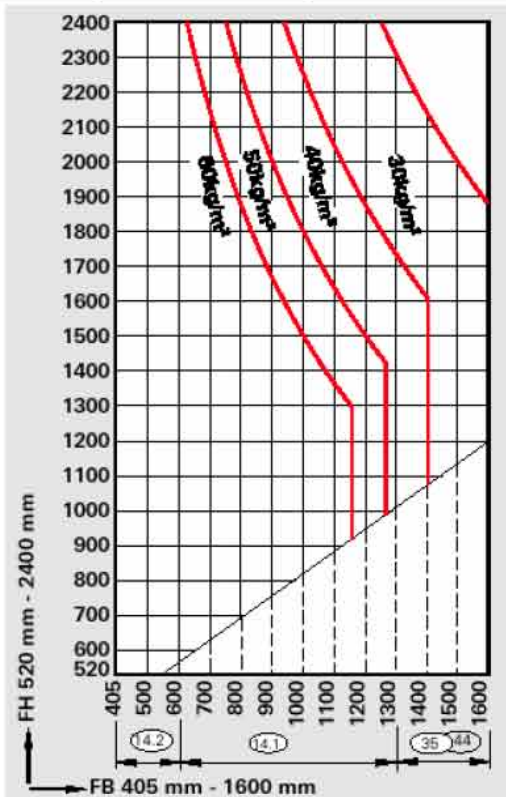
ROTO FRANK

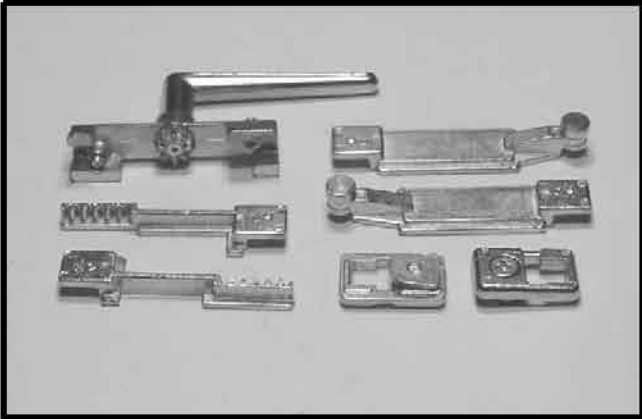
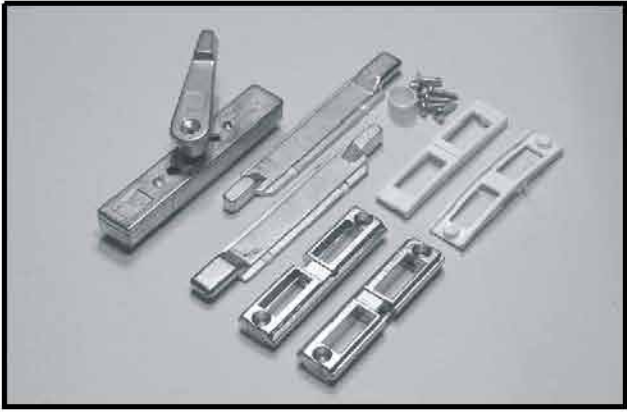
CODE 14A1301 Turn and Tilt Mechanism

CODE 14A1302 Turn and Tilt Mechanism

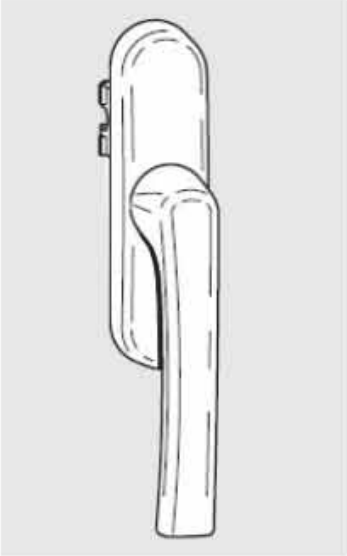
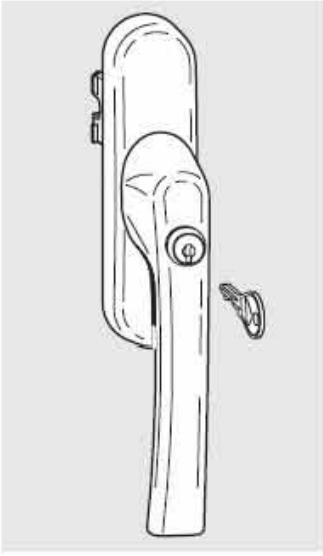
Width L (mm)	Height H (mm)	Weight (kg)
405 mm - 1600 mm	520 mm - 2400 mm	90 Kg.

Width L (mm)	Height H (mm)	Weight (kg)
405 mm - 1600 mm	520 mm - 2400 mm	130 Kg.



DRAWING / INFORMATION			APPLICATION		
					
CODE	MO 22.02	Window Bolt	CODE	MO 22.01	Window Bolt

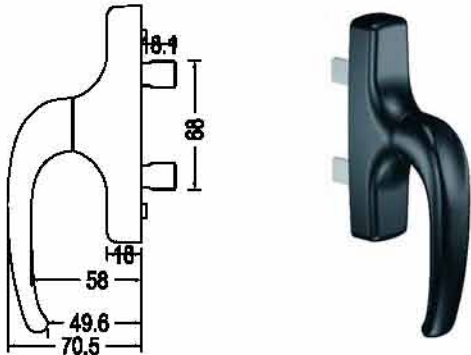
HANDLES

DRAWING / INFORMATION		APPLICATION	
 <p style="text-align: right;"><b>ROTO FRANK</b></p>		 <p style="text-align: right;"><b>ROTO FRANK</b></p>	
<b>CODE</b>	<b>14A1101</b>	<b>Window Handle</b>	
<b>CODE</b>	<b>14A1102</b>	<b>Window Handle</b>	
<b>COLOURS</b>	White ( RAL 9016 )	<b>COLOURS</b>	White ( RAL 9016 )
	Black ( RAL 9005 )		Black ( RAL 9005 )
	Anodized silver		Anodized silver
<b>MATERIALS</b>	Die-cast aluminium alloy	<b>MATERIALS</b>	Die-cast aluminium alloy
	Die-cast zinc alloy		Die-cast zinc alloy
	Black nylon		Black nylon



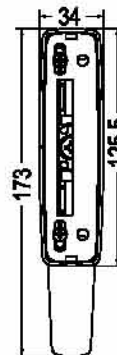
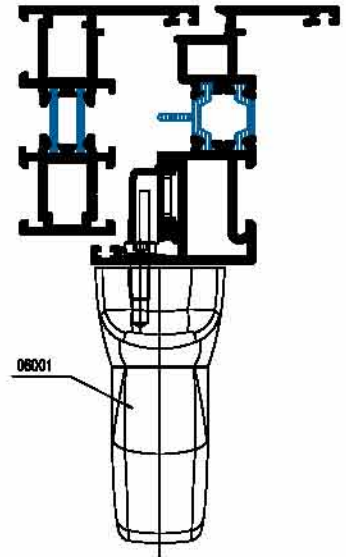
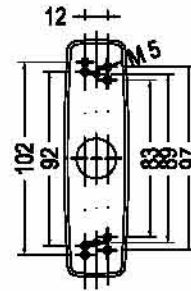
HANDLES

DRAWING / INFORMATION



APPLICATION

connection dimensions



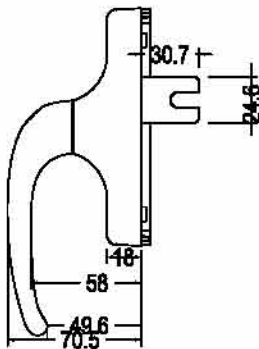
CODE 6001 Window Handle

COLOURS

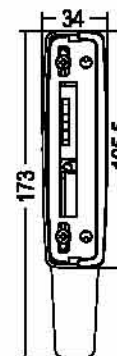
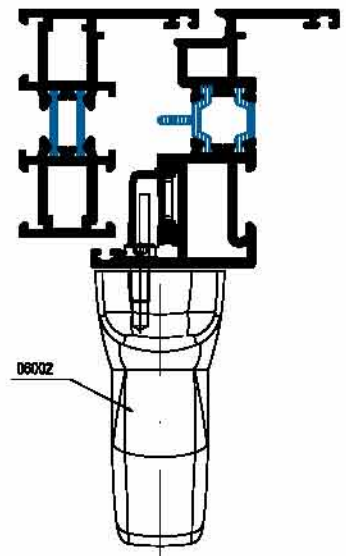
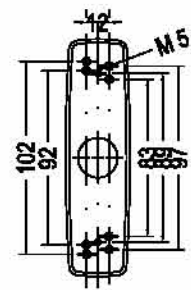
White (RAL 9016)  
Black (RAL 9005)  
Electrostatic painted in RAL colours

MATERIALS

Die-cast aluminium alloy  
Die-cast zinc alloy  
Black nylon



connection dimensions



CODE 6002 Window Handle

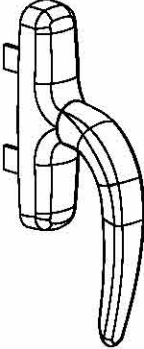
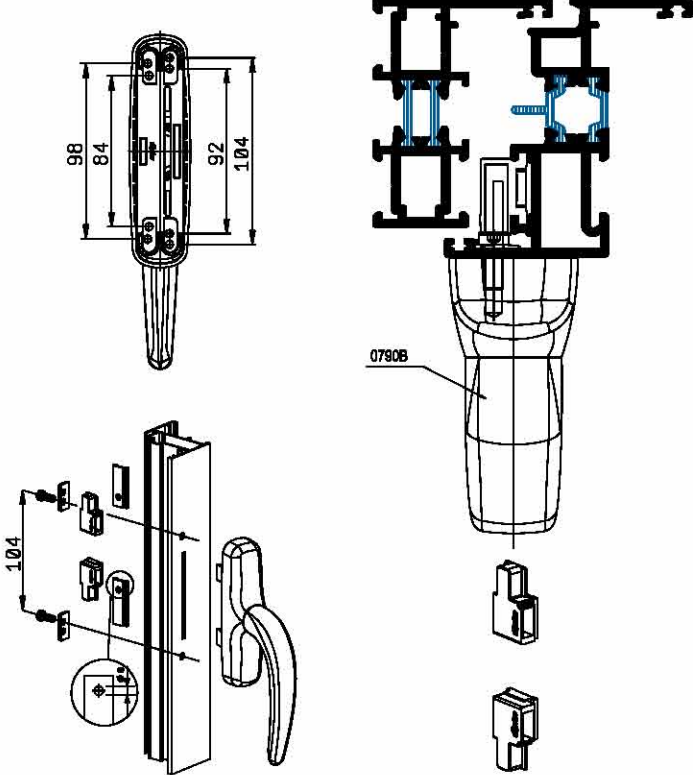
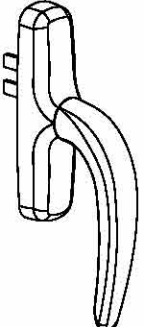
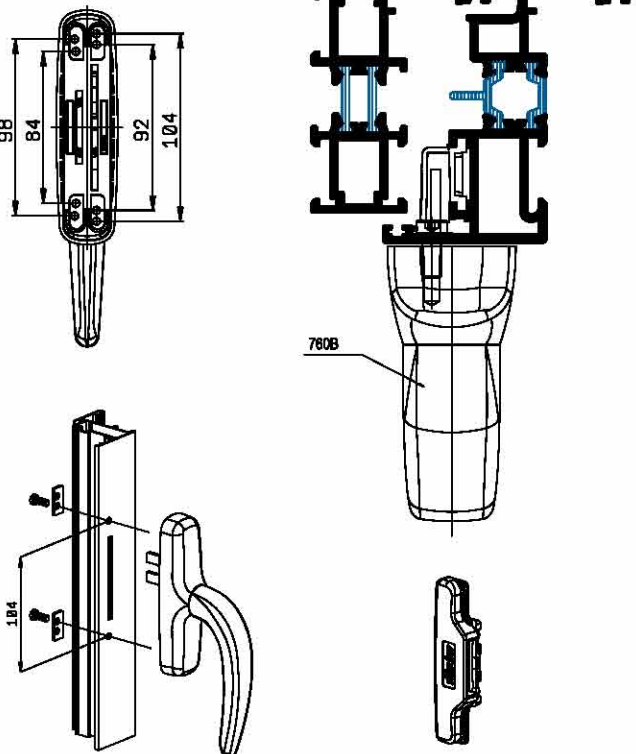
COLOURS

White (RAL 9016)  
Black (RAL 9005)  
Electrostatic painted in RAL colours

MATERIALS

Die-cast aluminium alloy  
Die-cast zinc alloy  
Black nylon

HANDLES

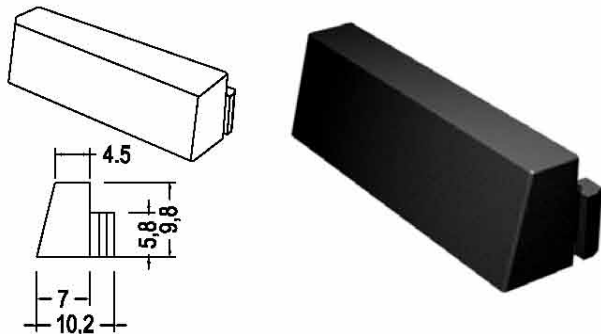
DRAWING / INFORMATION		APPLICATION
		
<b>CODE</b>	<b>0790B</b>	<b>Window Handle</b>
<b>COLOURS</b>	White ( RAL 9016 )	
	Black ( RAL 9005 )	
<b>MATERIALS</b>	Die-cast aluminium alloy	
	Die-cast zinc alloy	
	Black nylon	
		
<b>CODE</b>	<b>0760B</b>	<b>Window Handle</b>
<b>COLOURS</b>	White ( RAL 9016 )	
	Black ( RAL 9005 )	
<b>MATERIALS</b>	Die-cast aluminium alloy	
	Die-cast zinc alloy	
	Black nylon	

DOOR HANDLES

DRAWING / INFORMATION		APPLICATION					
							
CODE	X402	Door Handle		CODE	AK23	Door Handle	
COLOURS	White ( RAL 9016 ) Black ( RAL 9005 )			COLOURS	White ( RAL 9016 ) , Black ( RAL 9005 ) Electrostatic painted in RAL colours , Anodized silver		
							
CODE	X103	Door Handle		CODE	AK20	Door Handle	
COLOURS	White ( RAL 9016 ) Black ( RAL 9005 )			COLOURS	White ( RAL 9016 ) , Black ( RAL 9005 ) Electrostatic painted in RAL colours , Anodized silver		
							
CODE	DH605	Door Handle		CODE	AK21	Door Handle	
COLOURS	White ( RAL 9016 ) Black ( RAL 9005 )			COLOURS	White ( RAL 9016 ) , Black ( RAL 9005 ) Electrostatic painted in RAL colours , Anodized silver		

COVERS

DRAWING / INFORMATION

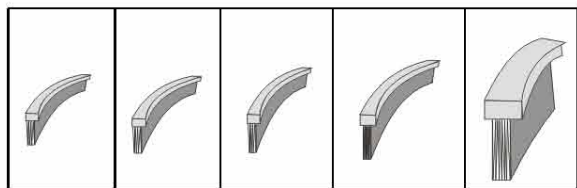
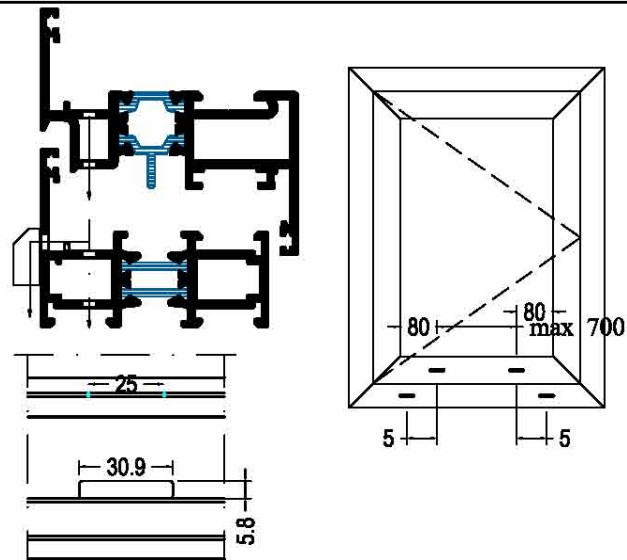


**CODE** 08000-03 **Drainage Cover**

**COLOURS** Black , White

**MATERIALS** Black nylon

APPLICATION

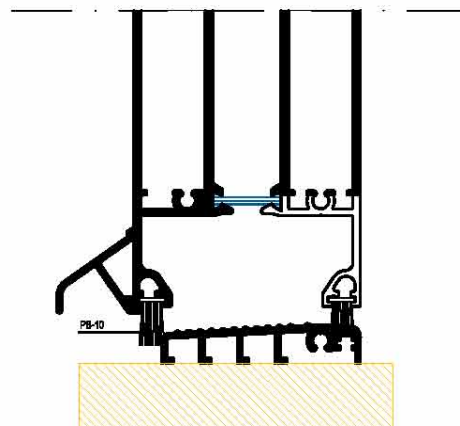


**PB - 6** **PB - 7** **PB - 8** **PB - 10** **PB - 13**

**CODE** **Brush**

**COLOURS** Grey

**MATERIALS** Black nylon

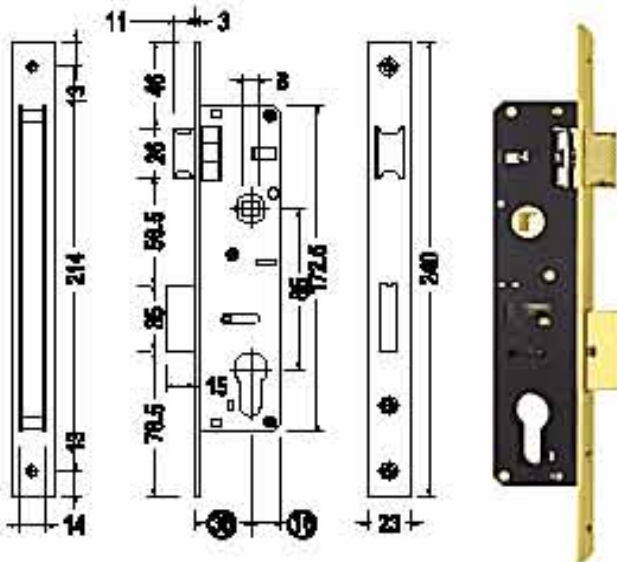




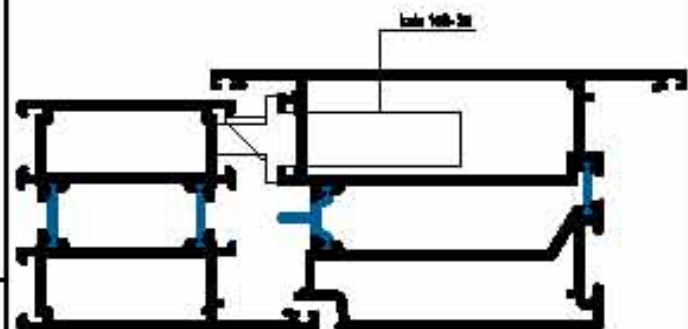
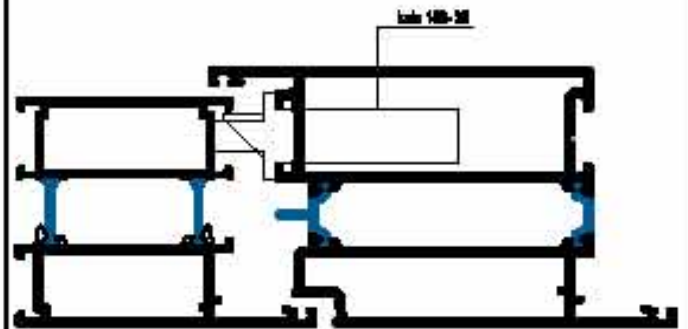
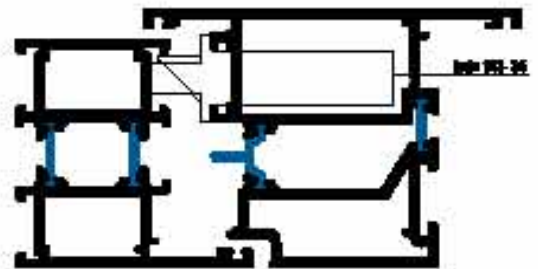
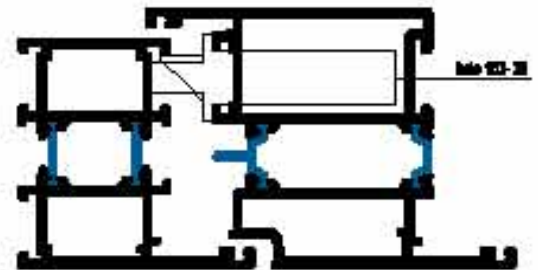
MORTISE LOCKS

DRAWING / INFORMATION

APPLICATION



TYPE	B
169 36	36



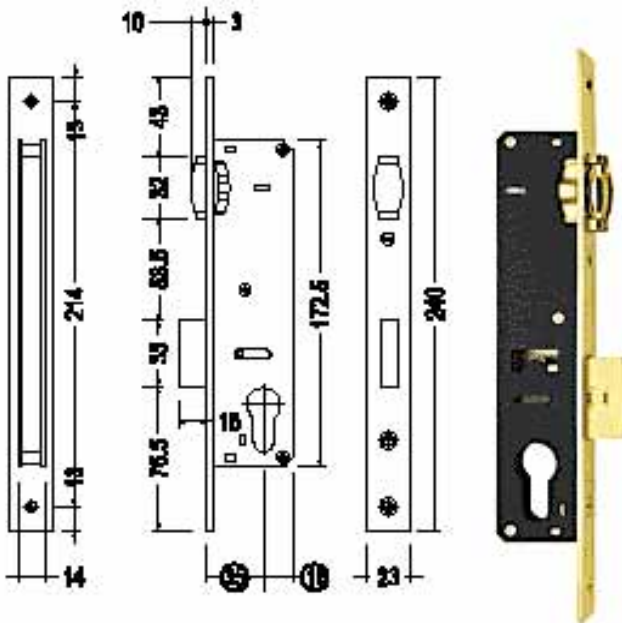
CODE 153 35 Mortise Lock

CYLINDER	DOMUS 1800CK ( 90 )
UNIT WEIGHT	880 gr
MATERIALS	Case : Steel , Electrostatic black powder painted
	Deadbolt : Zinc alloy
	Leitch : MS 58 Brass

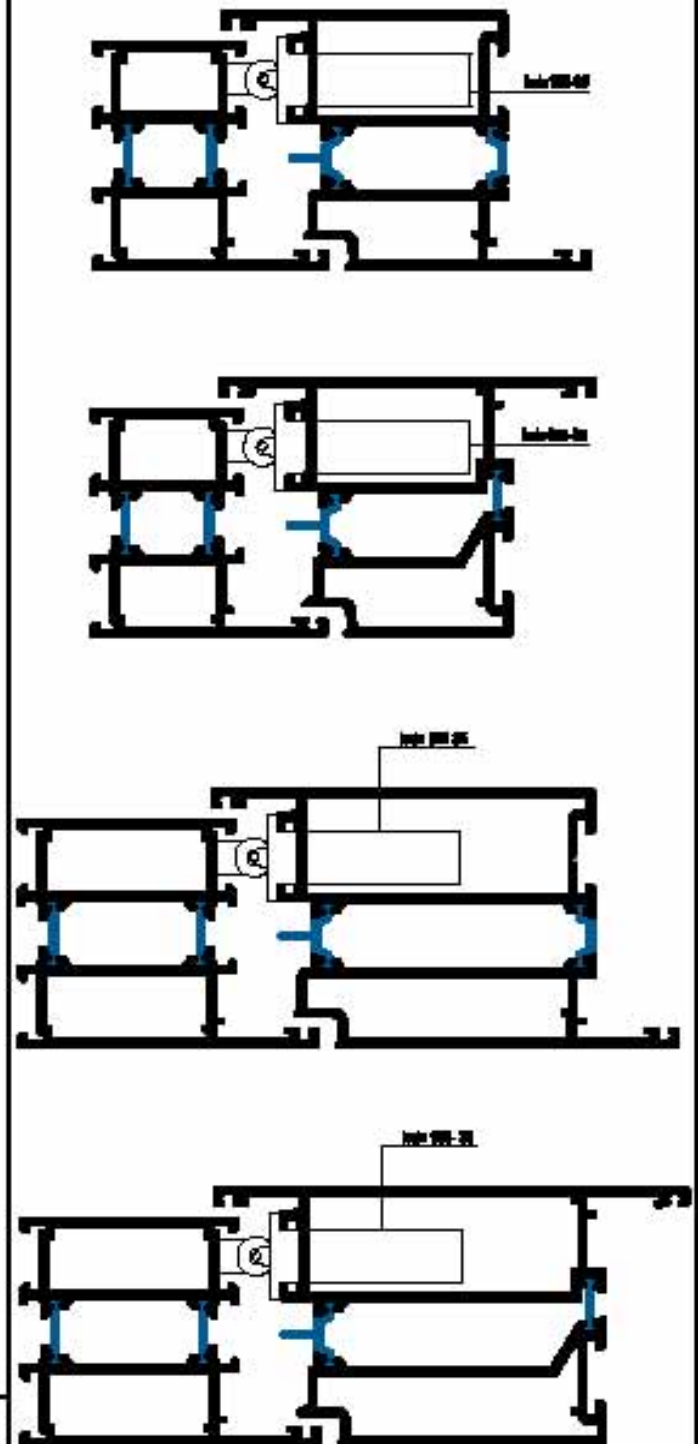
**MORTISE LOCKS**

**DRAWING / INFORMATION**

**APPLICATION**



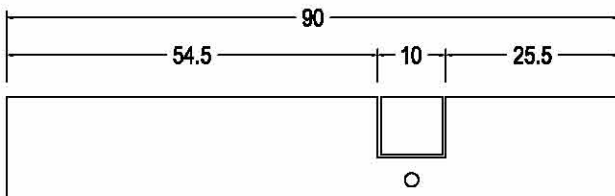
TYPE	B
166 35	35



CODE	155 35	Mortise Lock
CYLINDER	DOMUS 10090K ( 80 )	
UNIT WEIGHT	830 gr	
MATERIALS	Case : Steel , Electrostatic black powder painted	
	Deadbolt : Zinc alloy	
	Latch : MS 55 Brass	

MORTISE LOCKS

DRAWING / INFORMATION

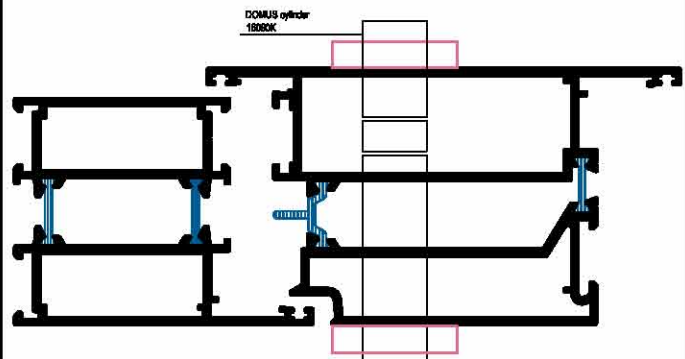
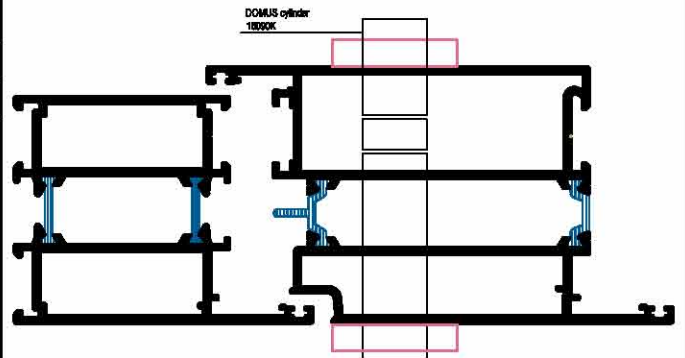
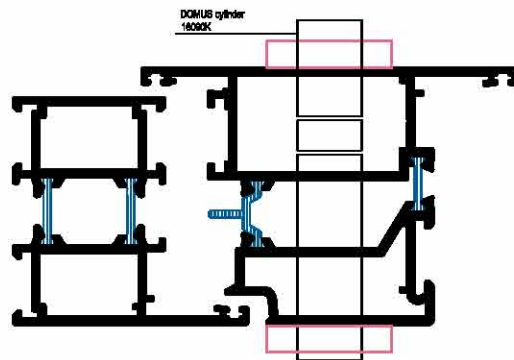
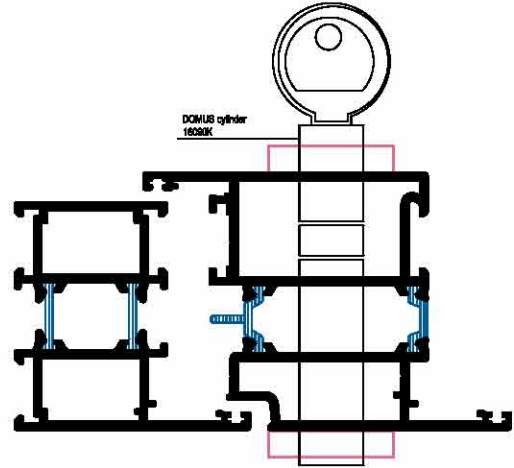


CODE **DOMUS 16090K**      **Cylinder**

MATERIALS

Lenght 90 mm  
Nickel

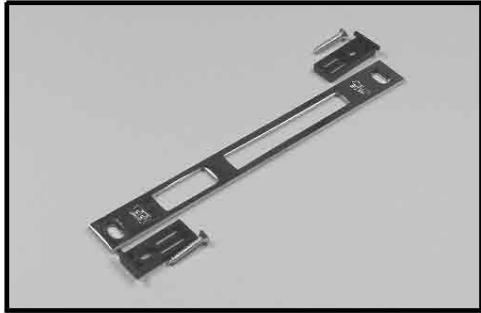
APPLICATION





MORTISE LOCKS

DRAWING / INFORMATION



CODE

AA 03205

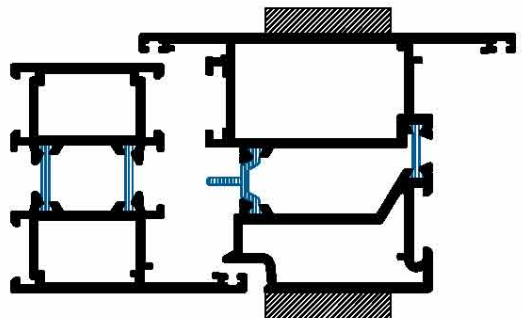
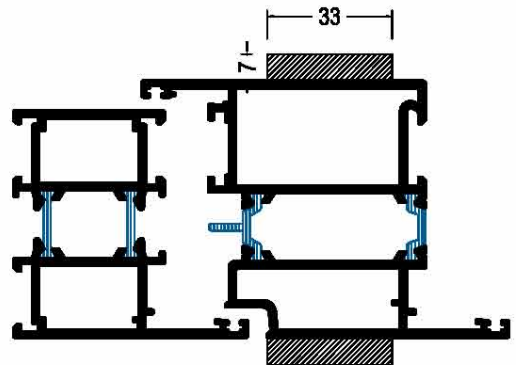
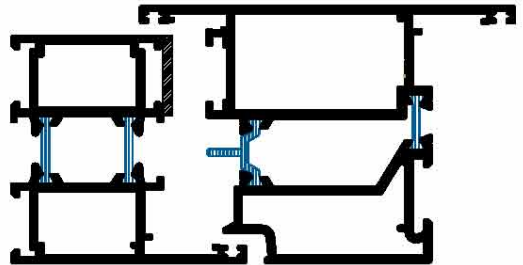
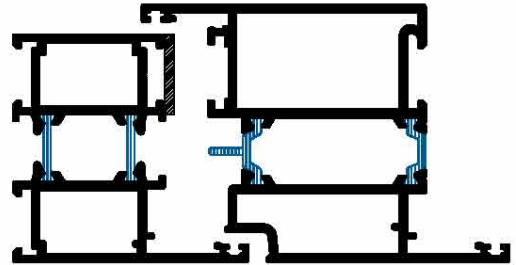
Striking Plate

MATERIALS

Chomized steel , 206.5 mm lenght

Black nylon bush

APPLICATION



CODE

**DRAWING / INFORMATION**

**APPLICATION**

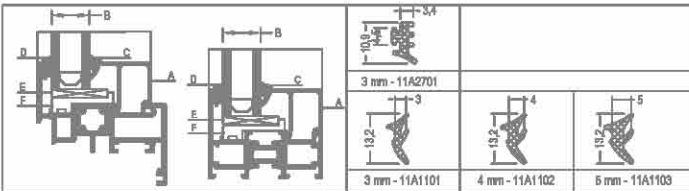


**CODE**    **GEZE TS 1000**

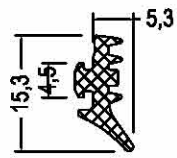
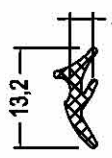
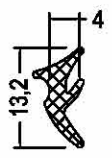
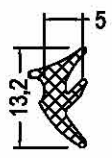
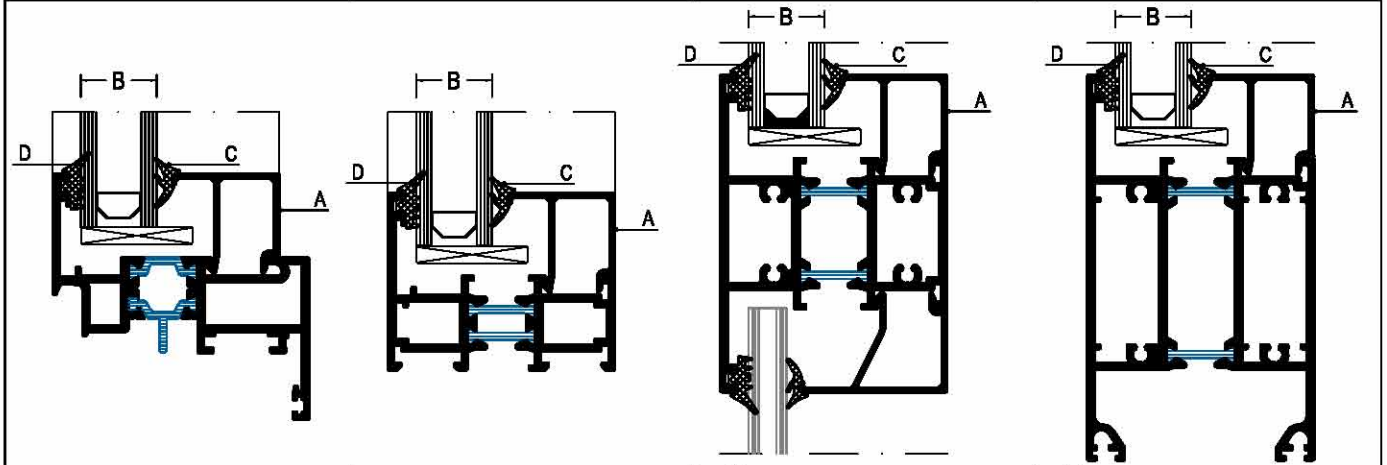
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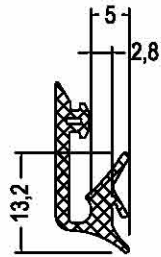
**Bolt**

## d - TABLE

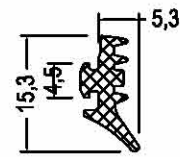


A	B	C	D	E	F
GLAZING BEAD	GLAZING THICKNESS	GLAZING GASKET INSIDE	GLAZING GASKET OUTSIDE	WEDGES	WEDGES
14GW12	5 mm	11A1103	11A2701	17A1801	17A1802
14GW12	6 mm	11A1102	11A2701	17A1801	17A1802
14GW11	8 mm	11A1103	11A2701	17A1801	17A1802

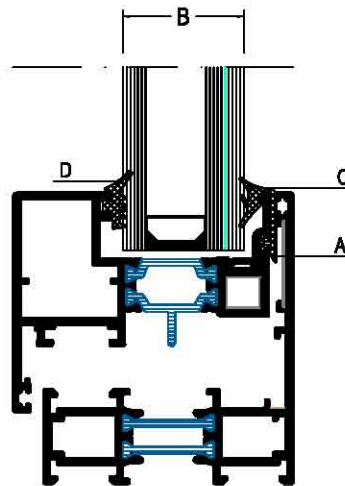
			
<p>3 mm - 11A2701</p>	<p>3 mm - 11A1101</p>	<p>4 mm - 11A1102</p>	<p>5 mm - 11A1103</p>
			
<p><b>A</b> GLAZING BEAD</p>	<p><b>B</b> GLAZING THICKNESS</p>	<p><b>C</b> GLAZING GASKET INSIDE</p>	<p><b>D</b> GLAZING GASKET OUTSIDE</p>
<p>14GW10</p>	<p>17 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW10</p>	<p>18 mm</p>	<p>11A1102</p>	<p>11A2701</p>
<p>14GW09</p>	<p>20 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW09</p>	<p>22 mm</p>	<p>11A1101</p>	<p>11A2701</p>
<p>14GW19</p>	<p>24 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW07</p>	<p>26 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW07</p>	<p>28 mm</p>	<p>11A1101</p>	<p>11A2701</p>
<p>14GW06</p>	<p>30 mm</p>	<p>11A1102</p>	<p>11A2701</p>
<p>14GW05</p>	<p>32 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW05</p>	<p>34 mm</p>	<p>11A1101</p>	<p>11A2701</p>
<p>14GW04</p>	<p>36 mm</p>	<p>11A1102</p>	<p>11A2701</p>
<p>14GW03</p>	<p>38 mm</p>	<p>11A1103</p>	<p>11A2701</p>
<p>14GW03</p>	<p>40 mm</p>	<p>11A1101</p>	<p>11A2701</p>



4 mm - 11A1104

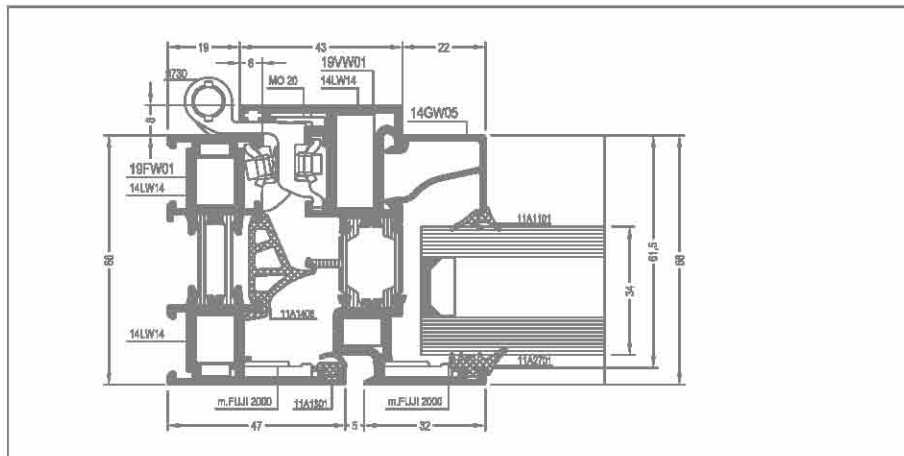


3 mm - 11A2701

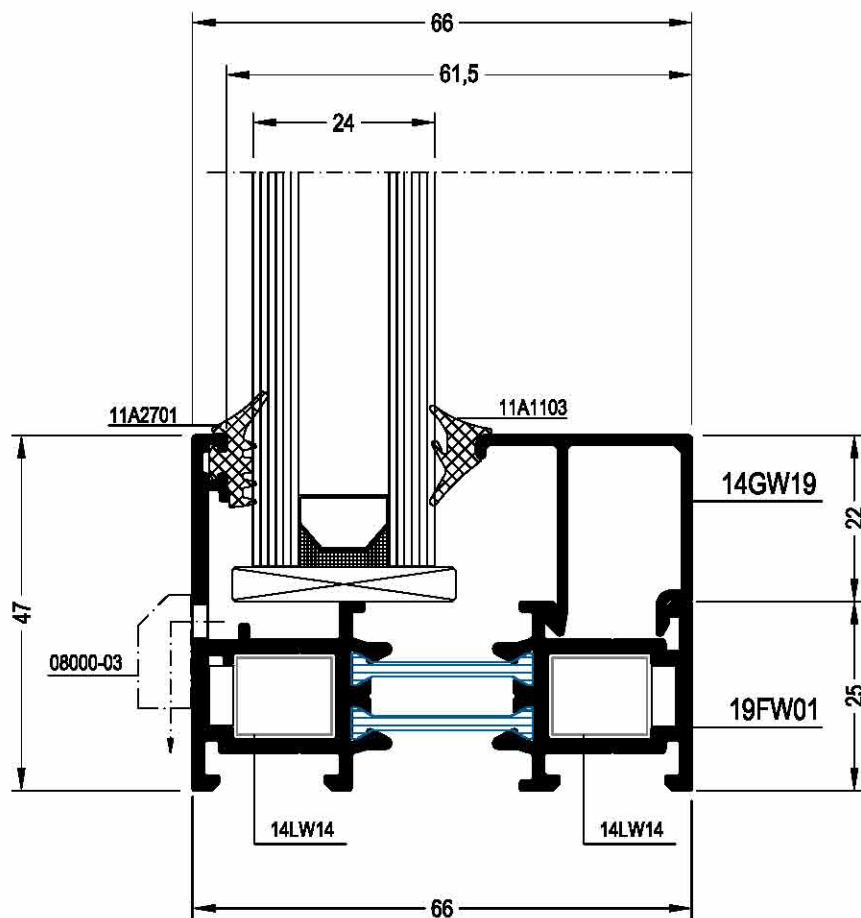
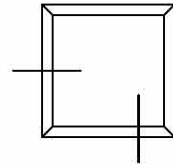
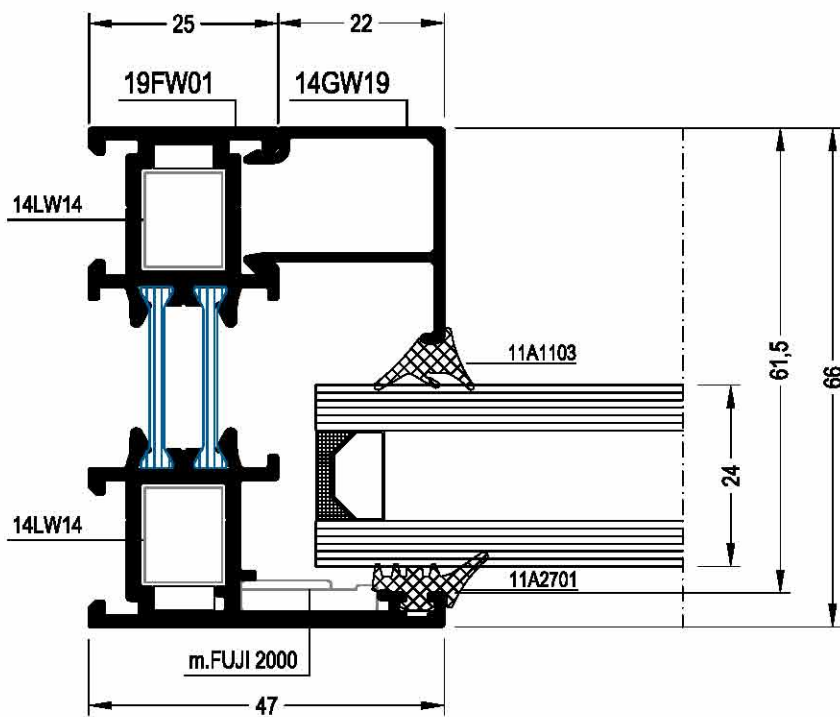


A GLAZING BEAD	B GLAZING THICKNESS	C GLAZING GASKET INSIDE	D GLAZING GASKET OUTSIDE
14GW20	26 mm	11A1104	11A2701

## e - DETAILS

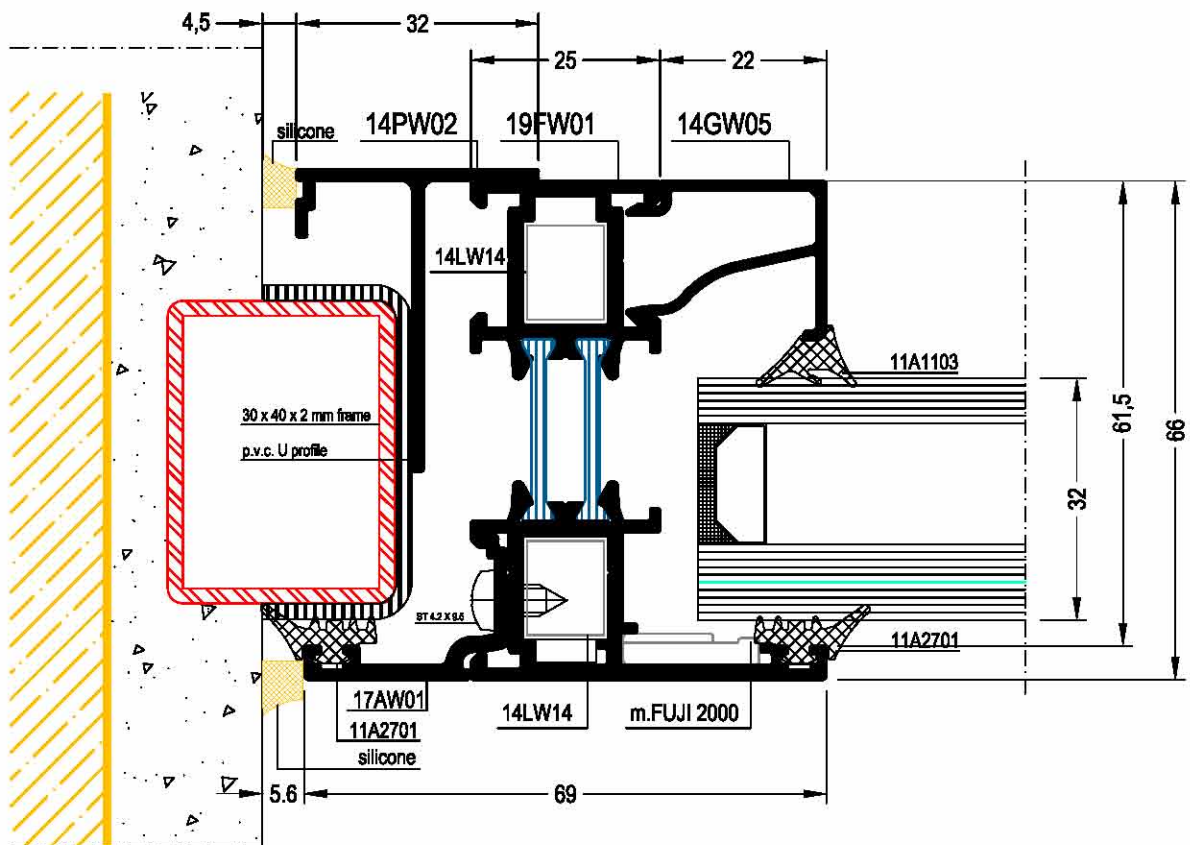
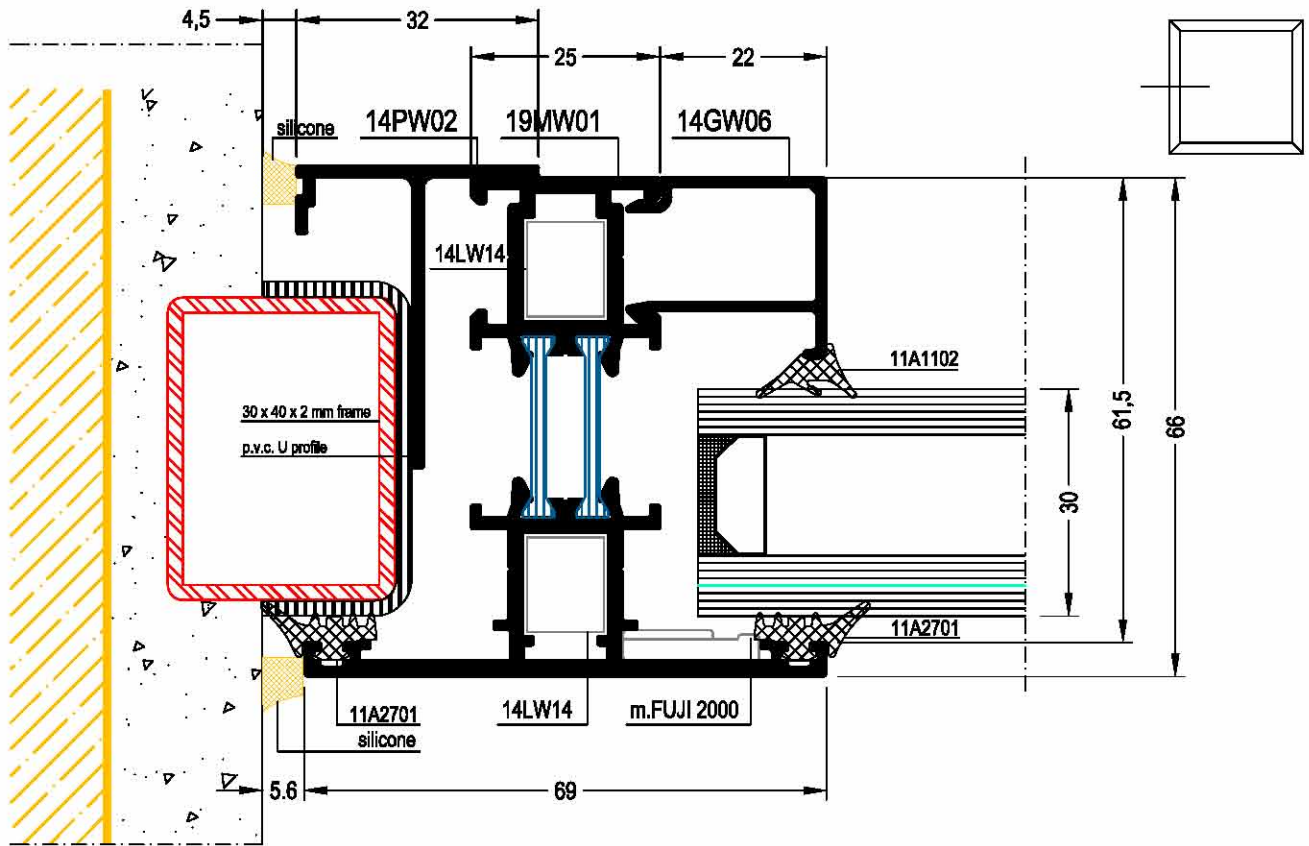


TURNING WINDOW

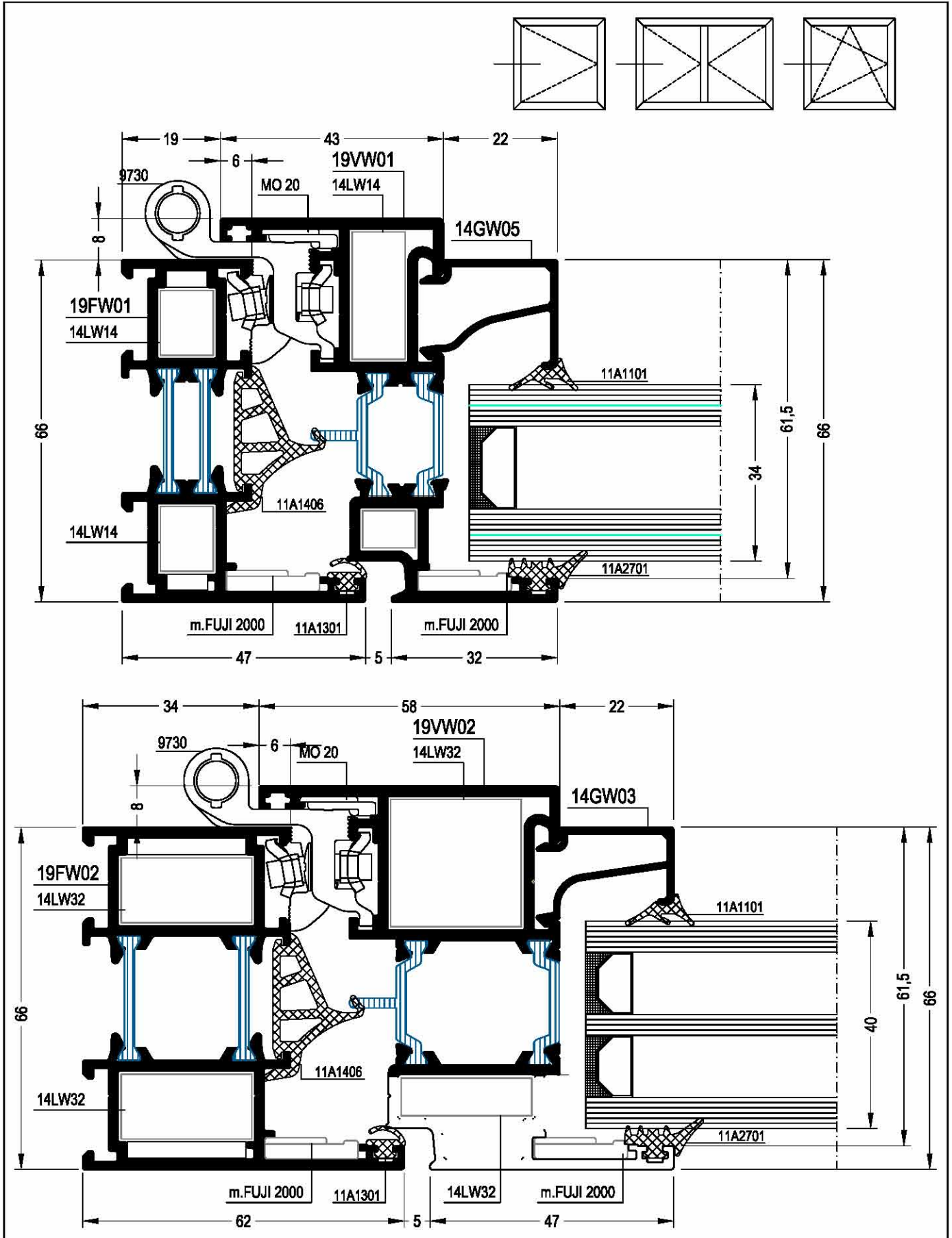




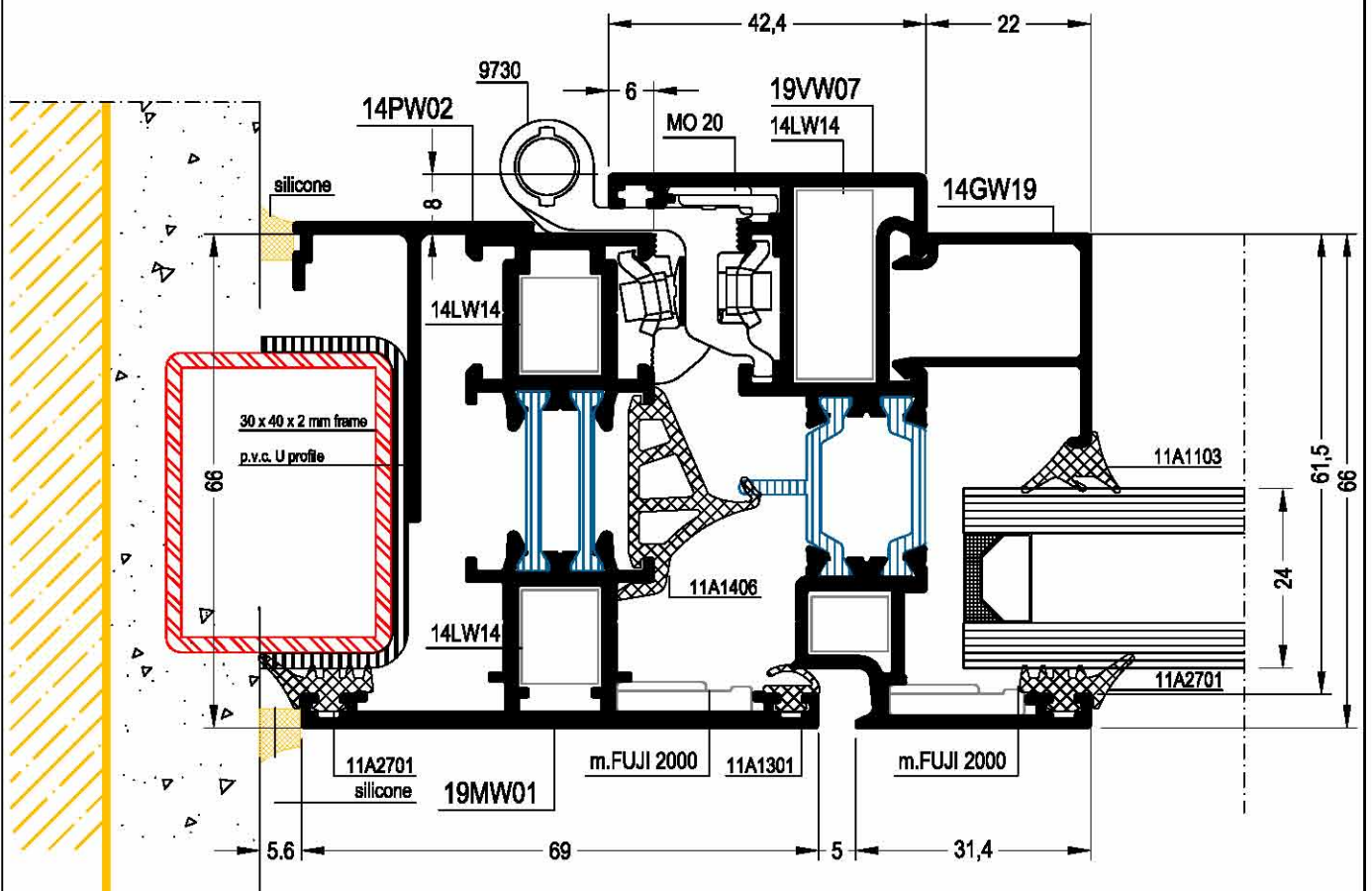
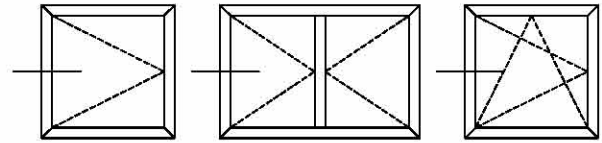
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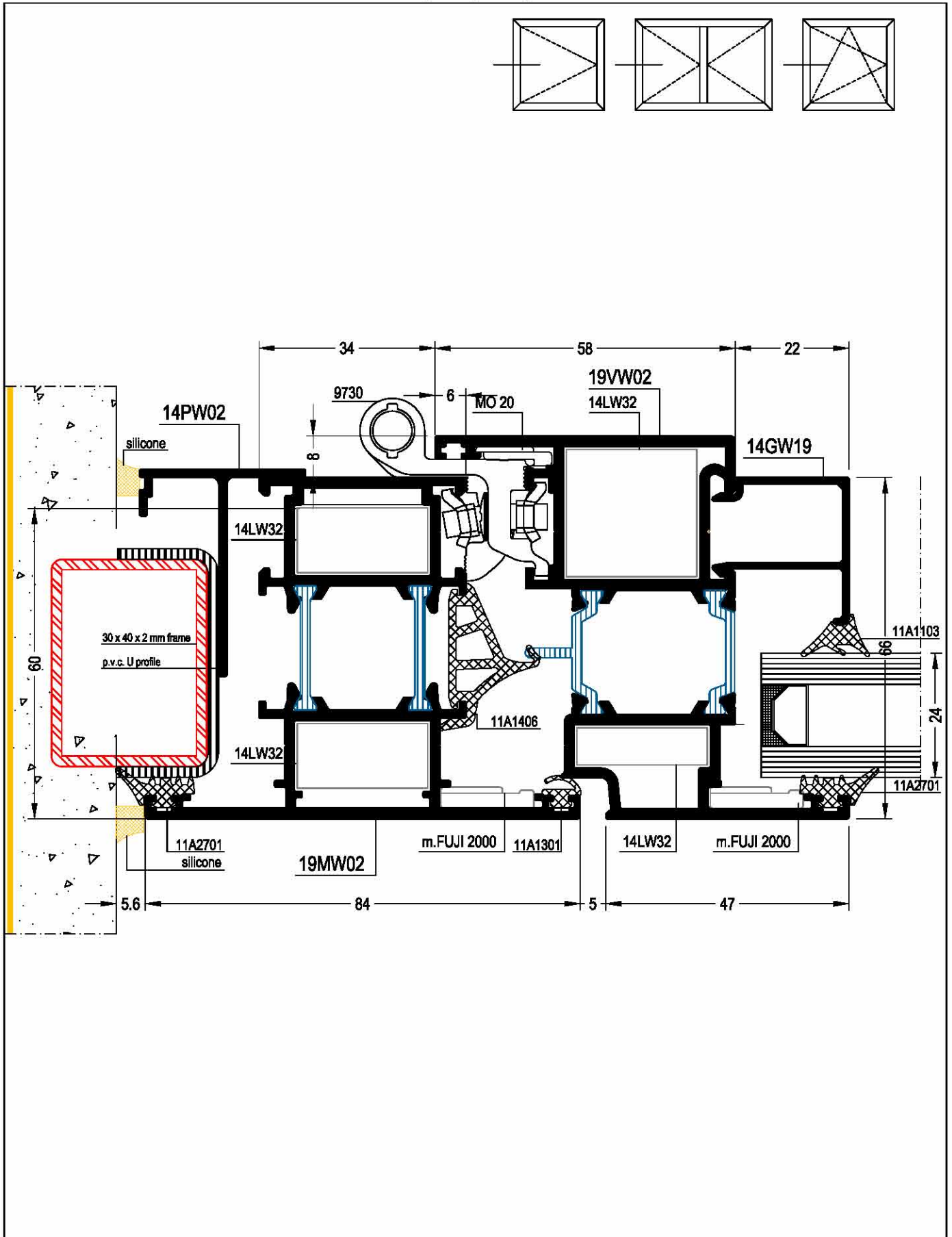
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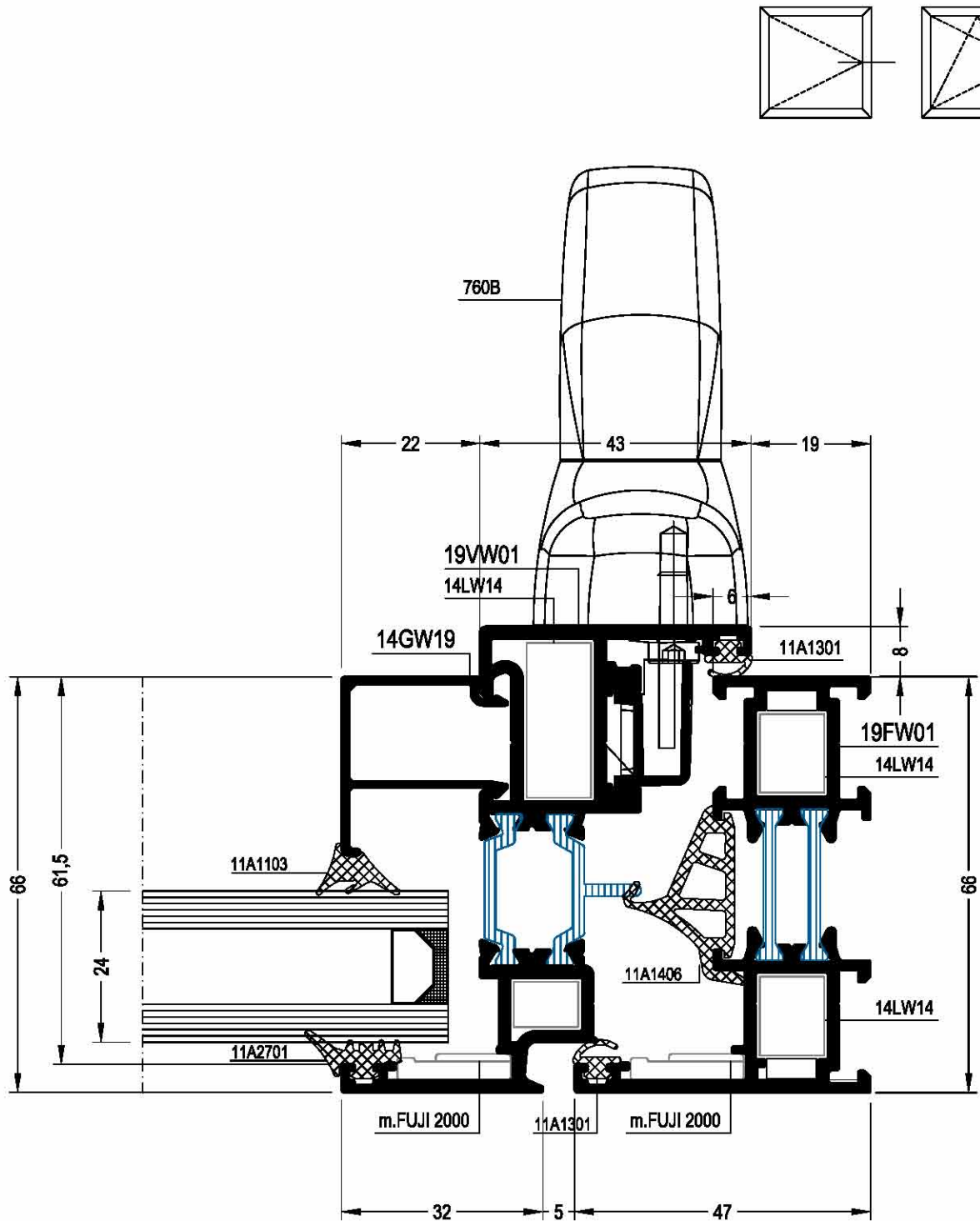
TURNING WINDOW



TURNING WINDOW

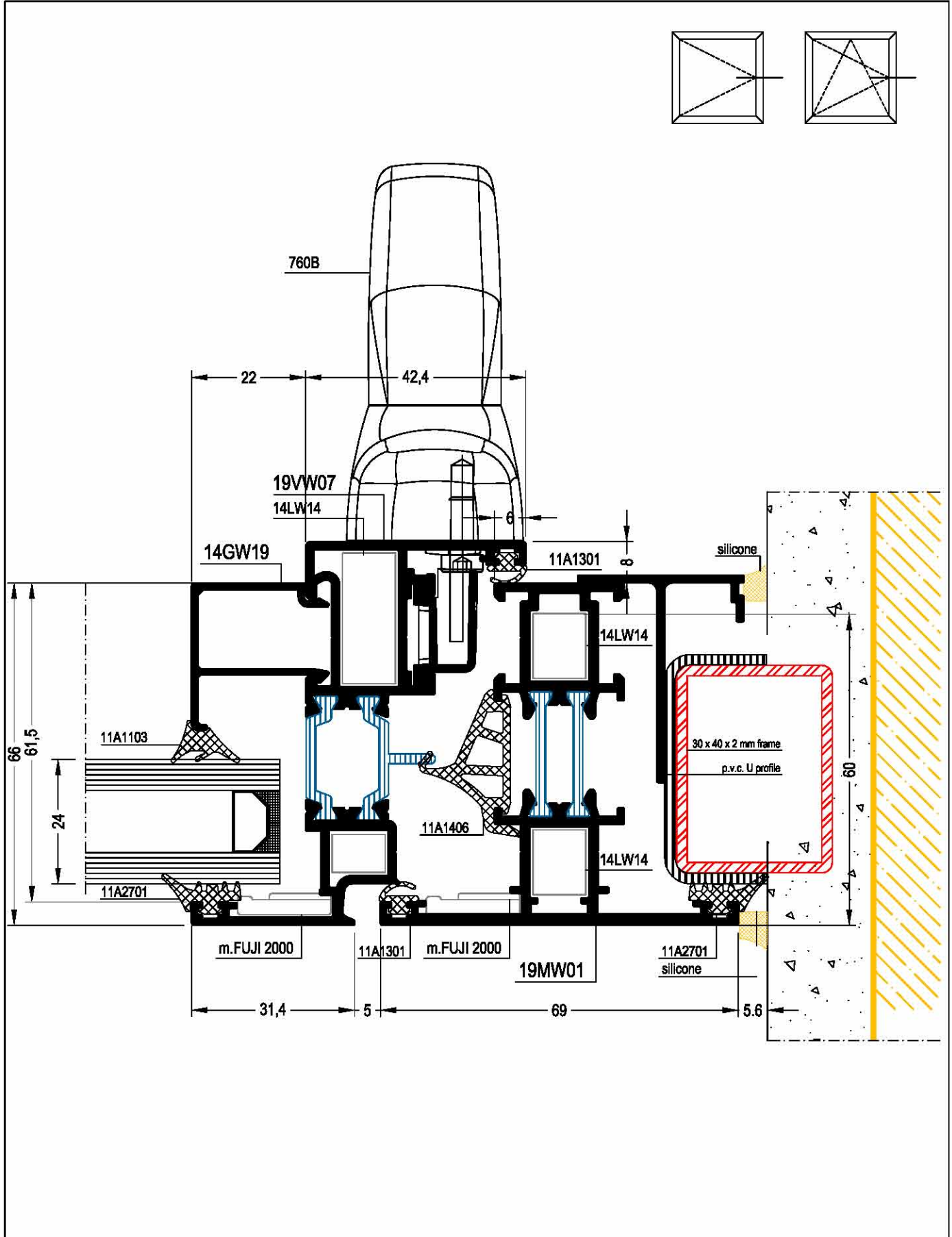


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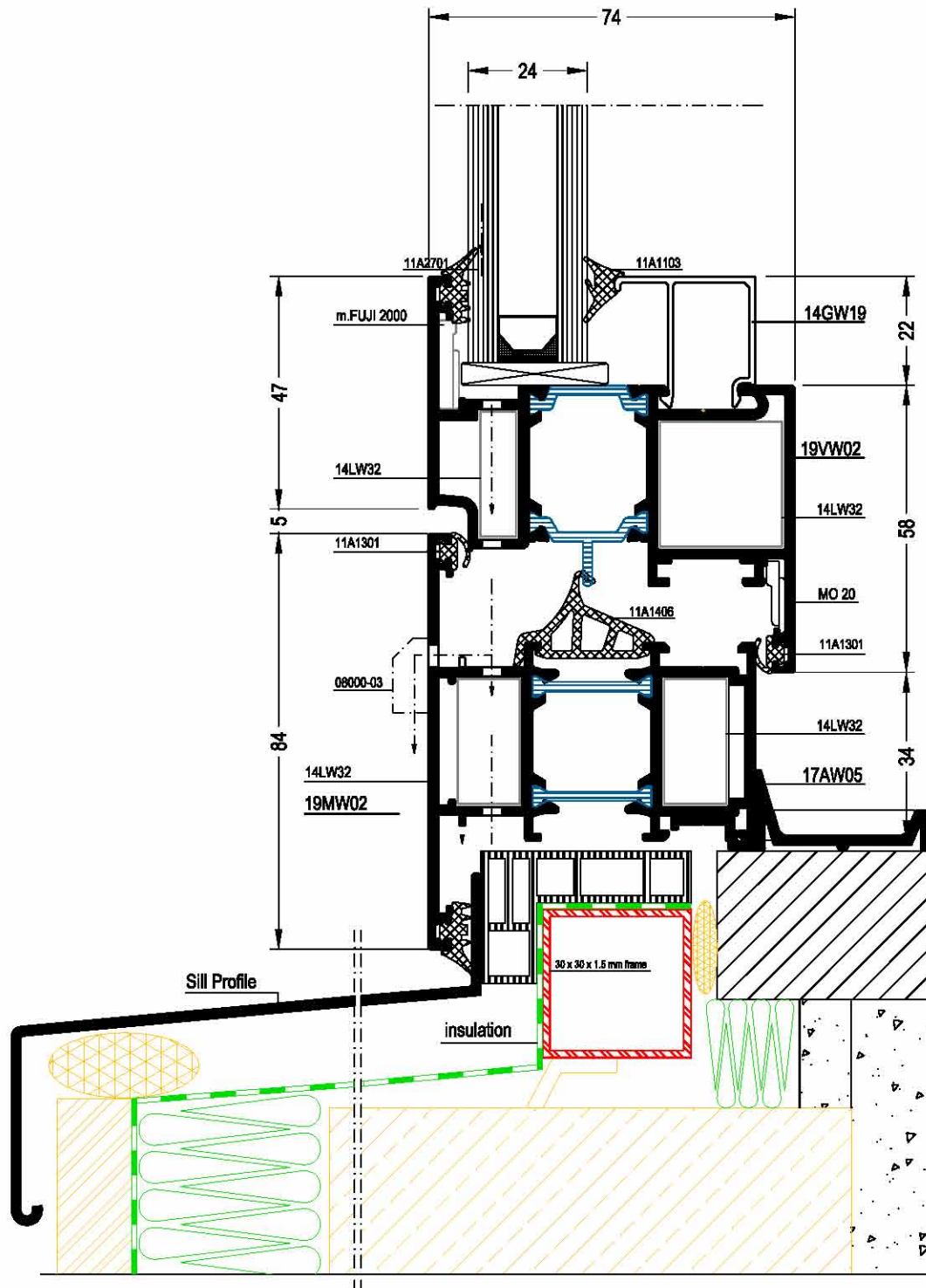
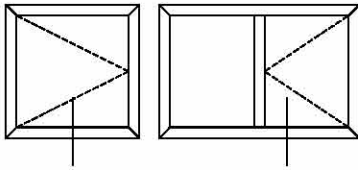




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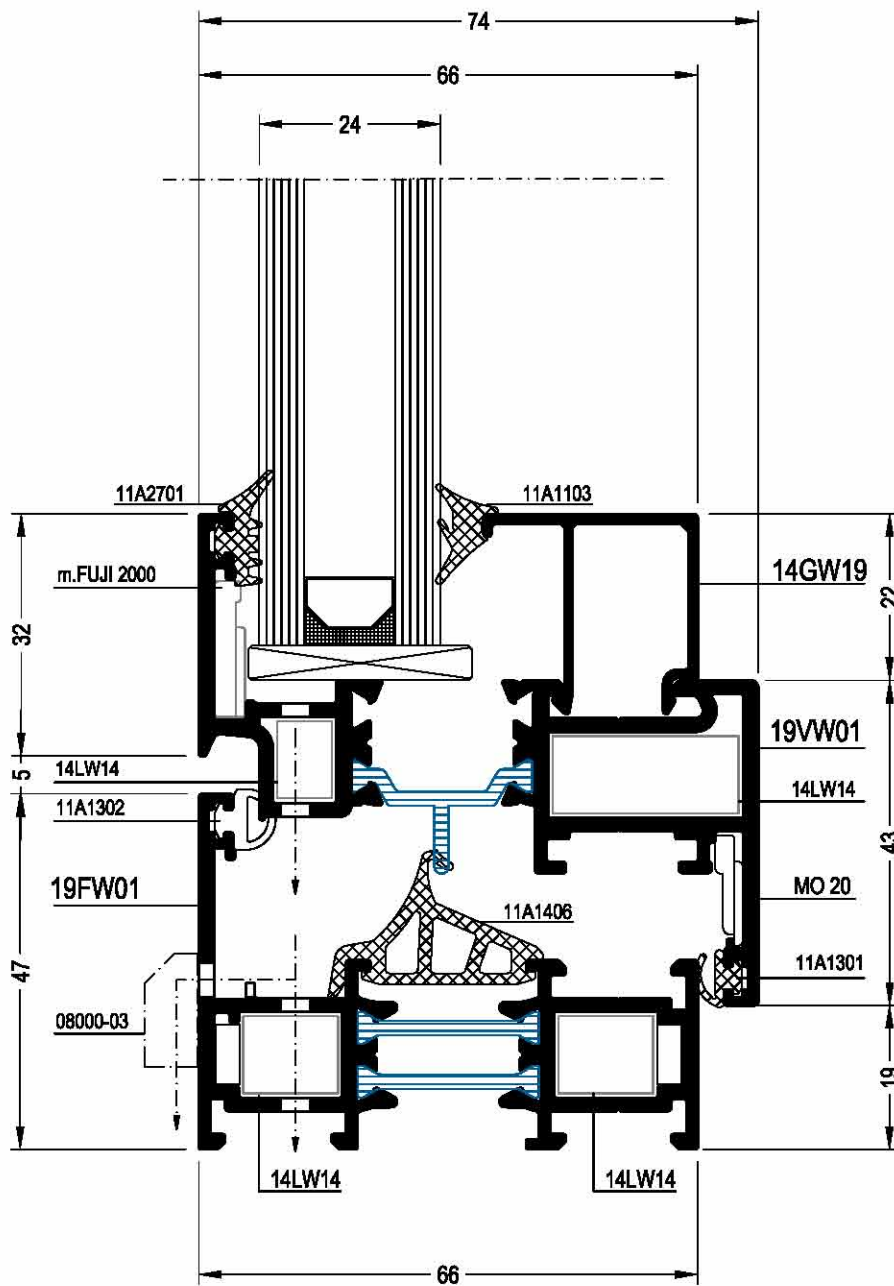
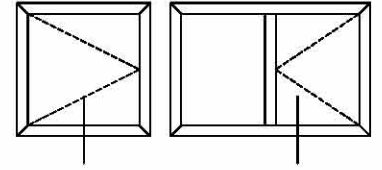


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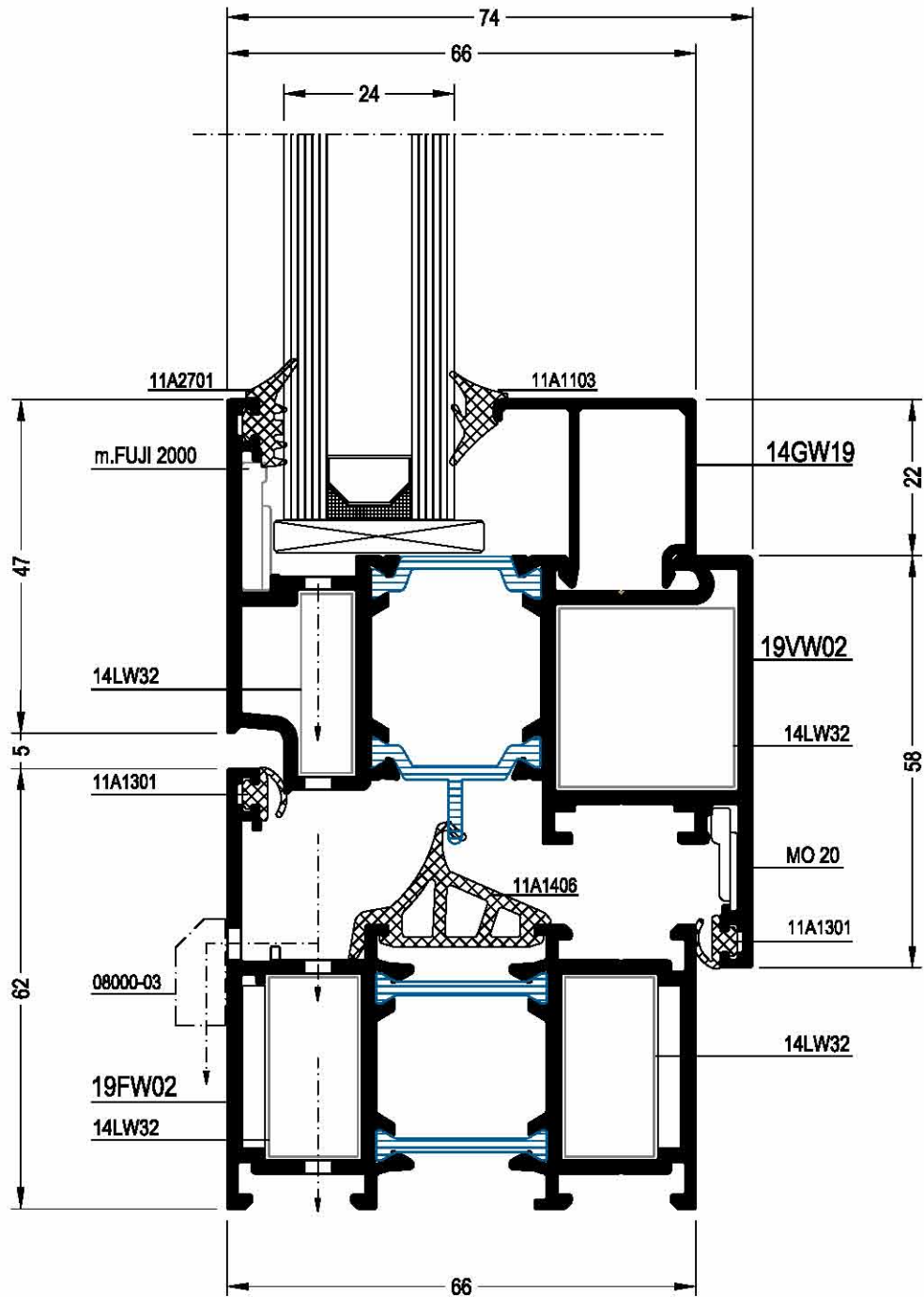
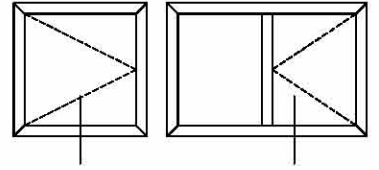




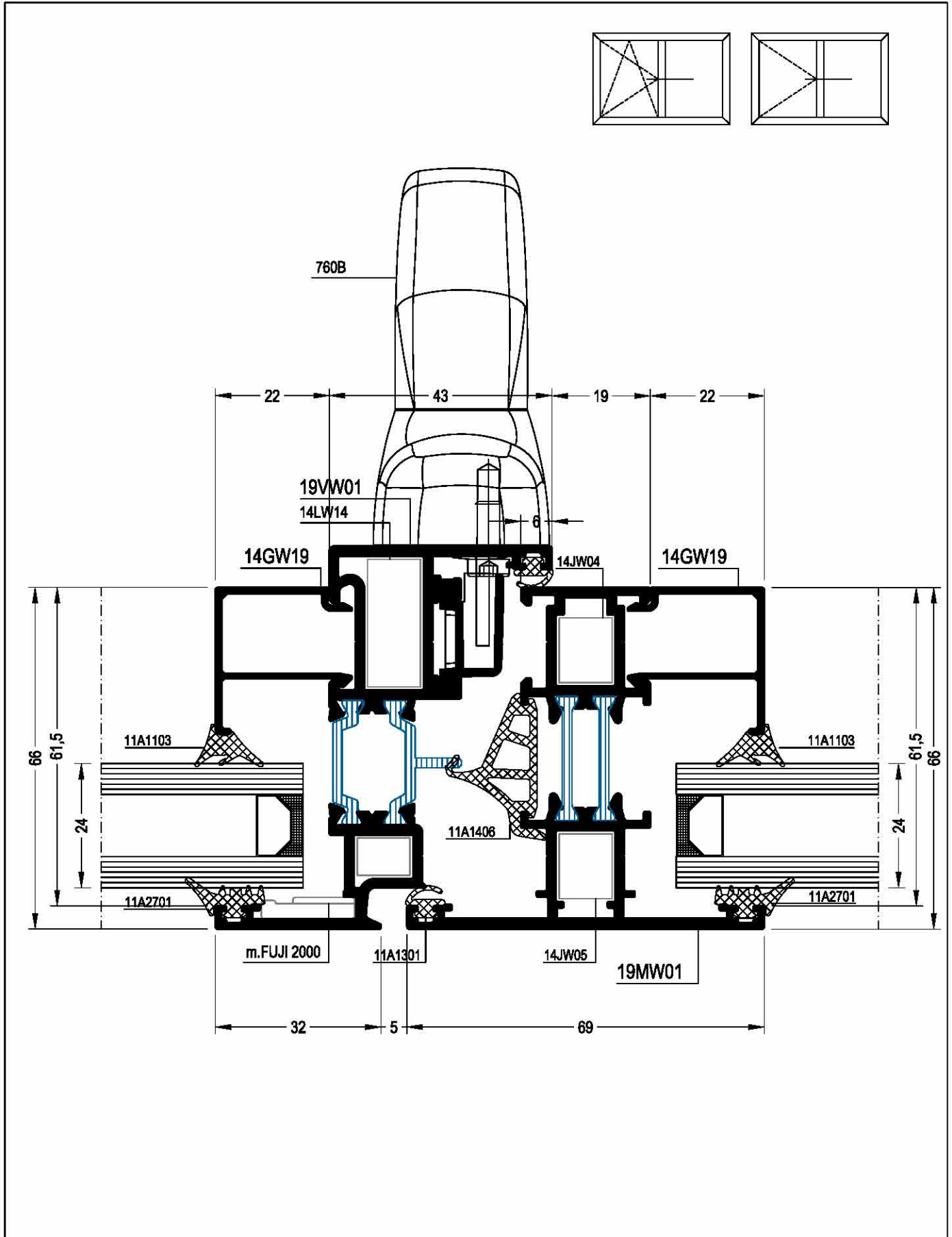
TURNING WINDOW



TURNING WINDOW

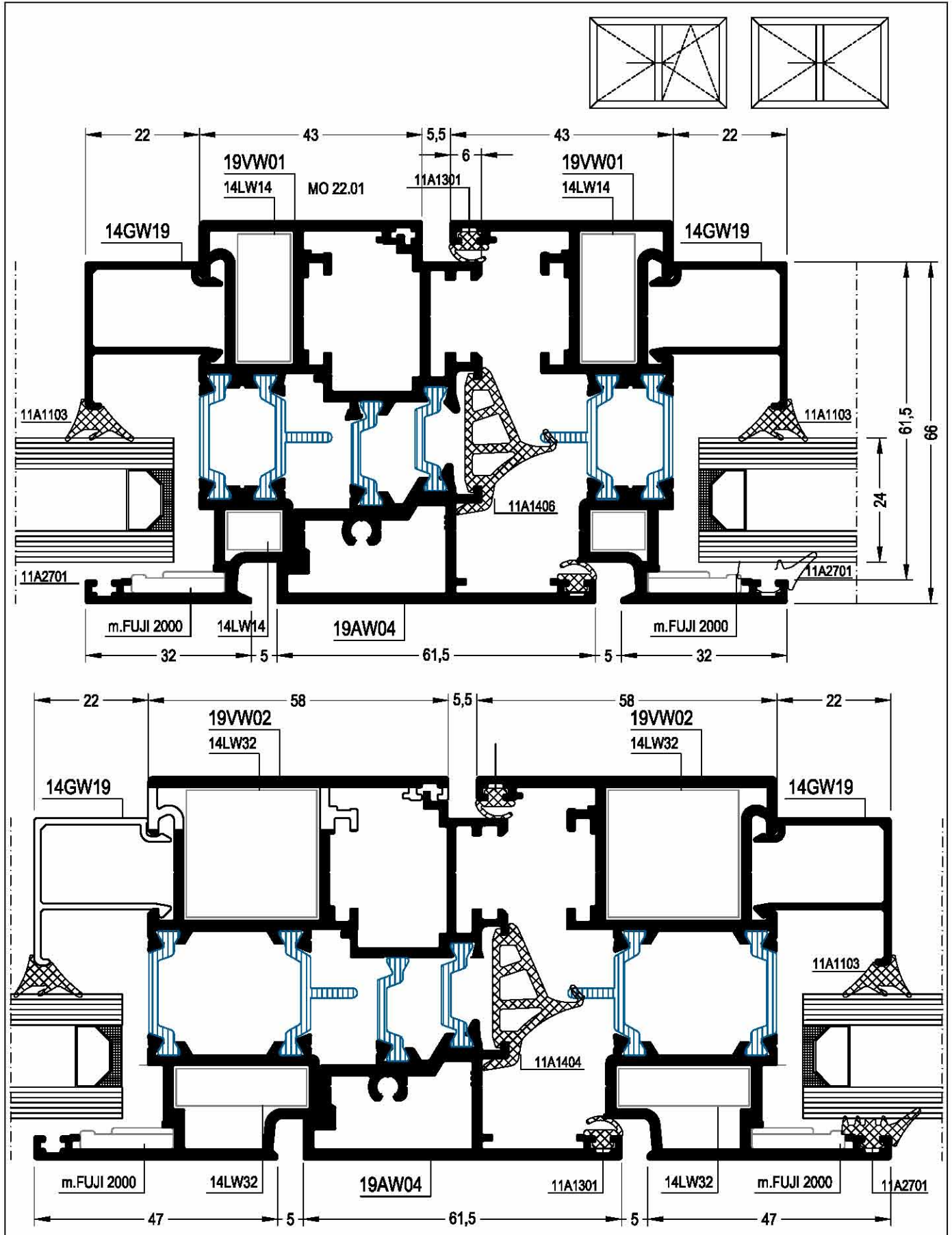


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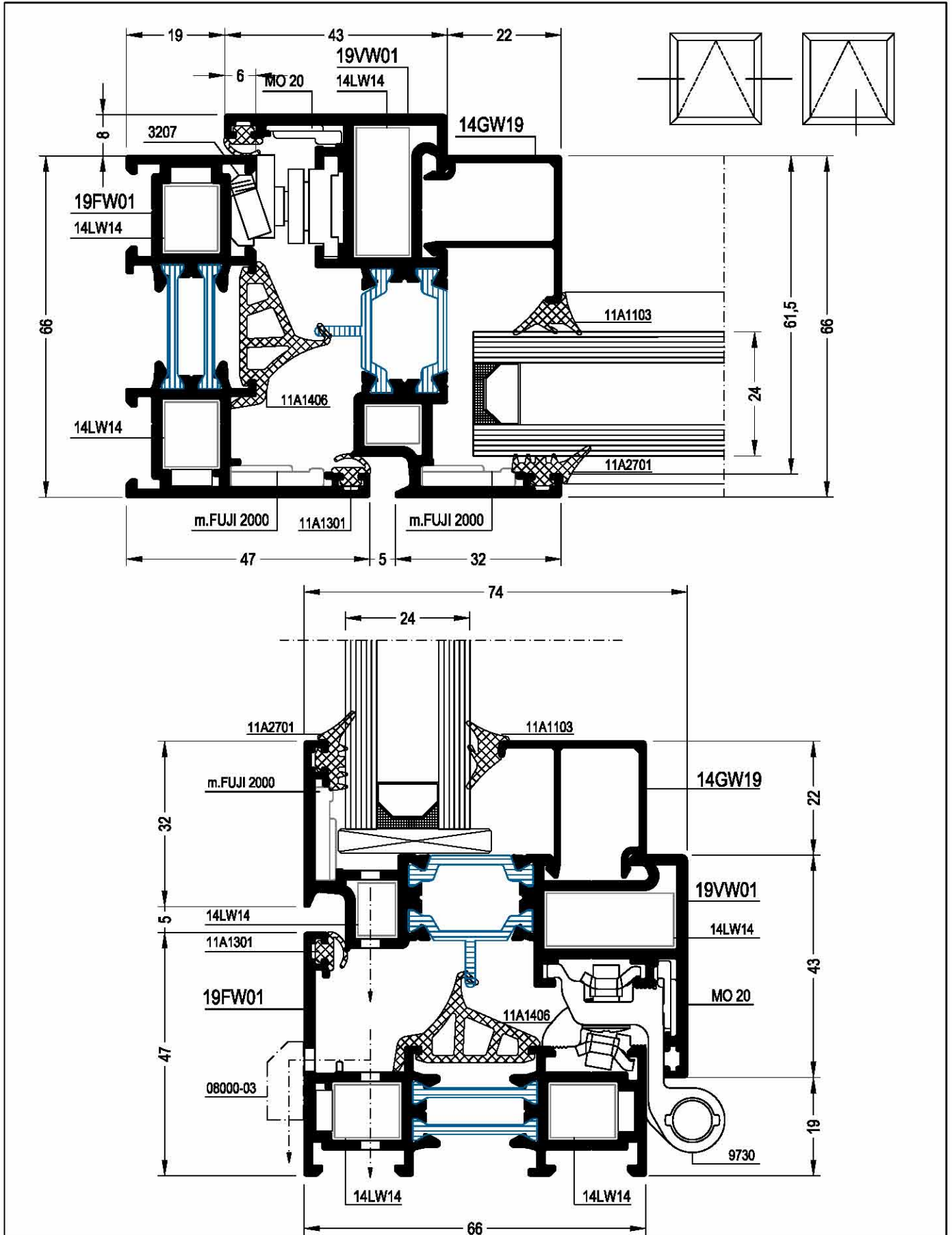




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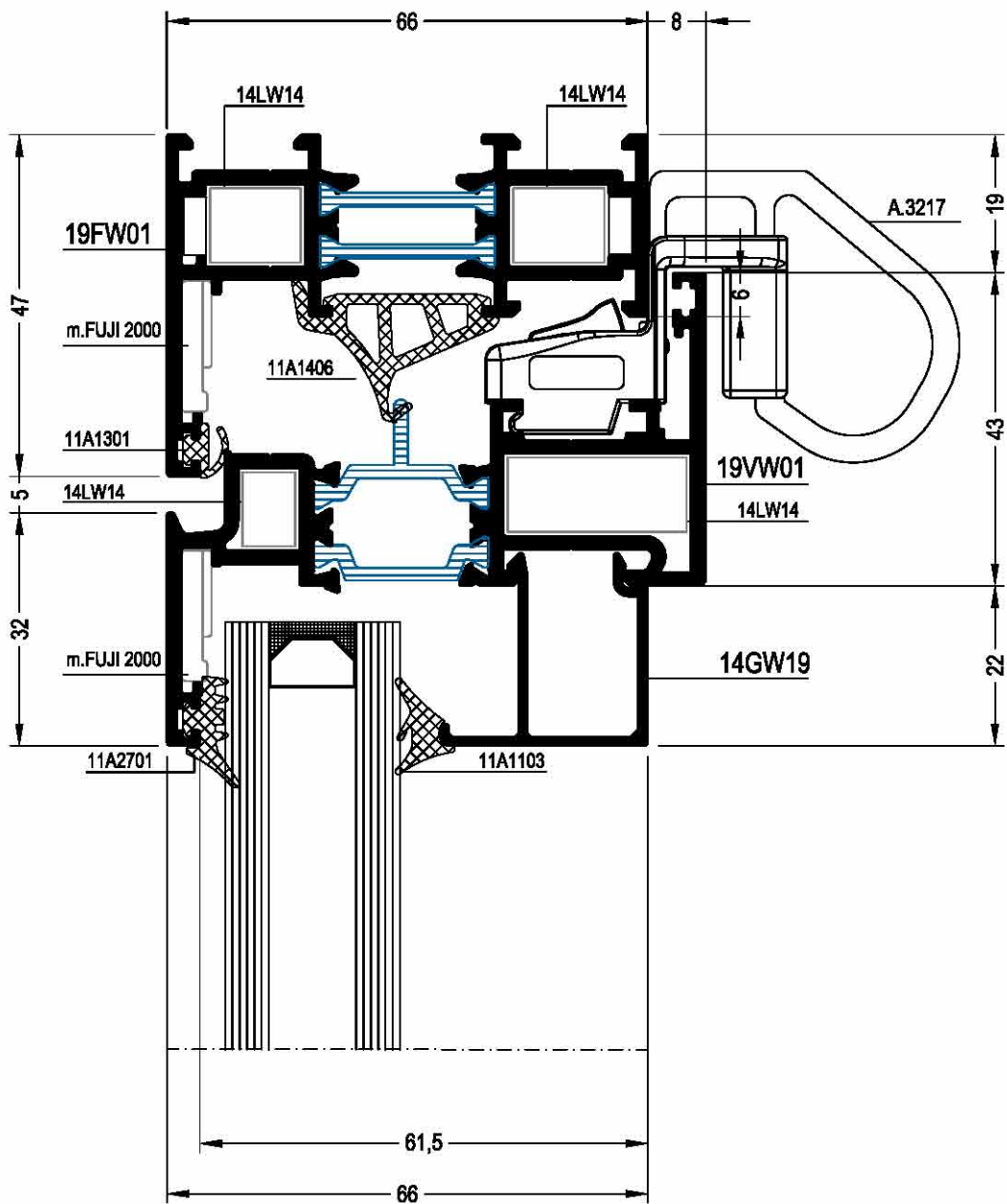
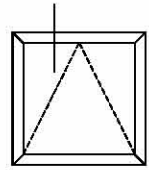


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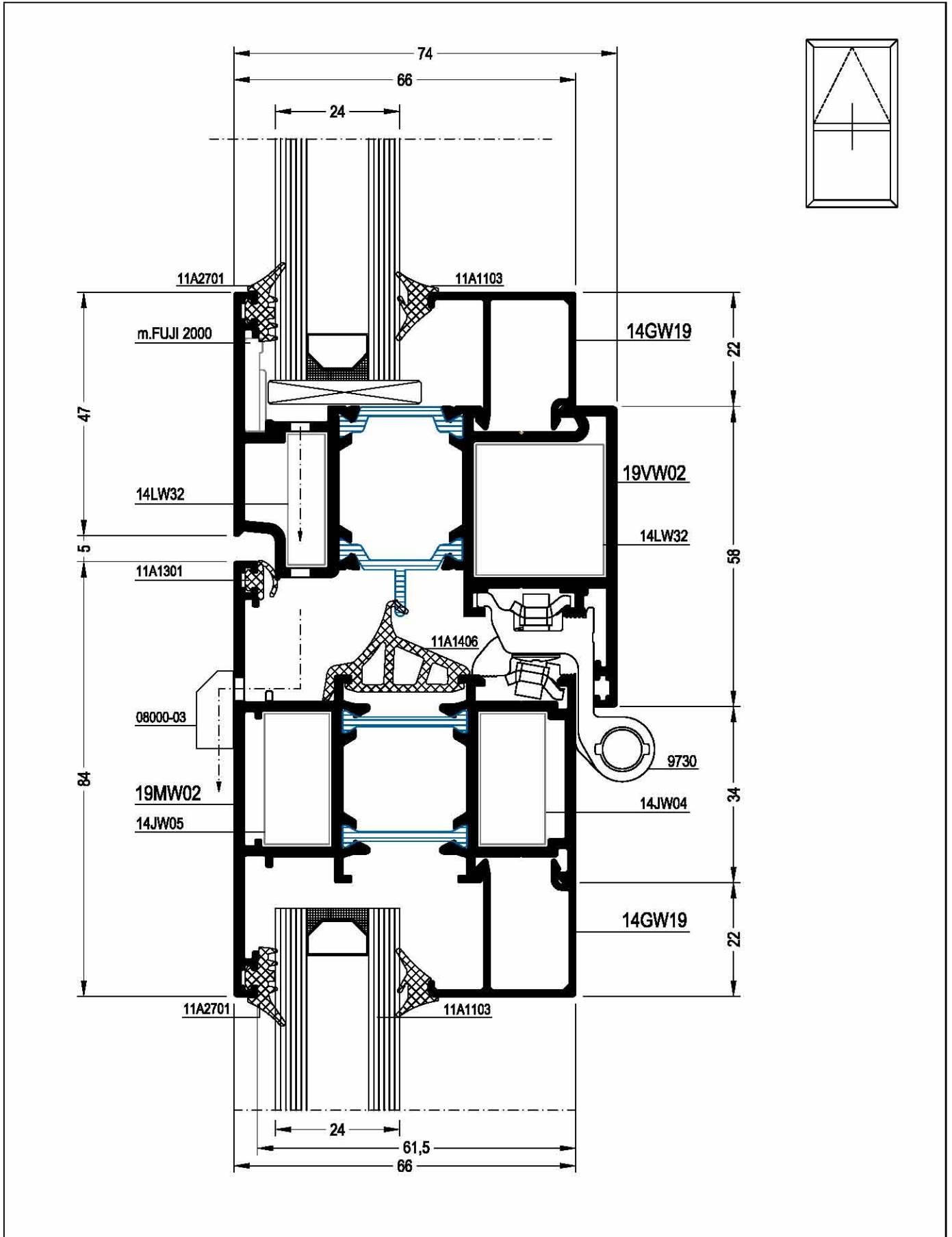




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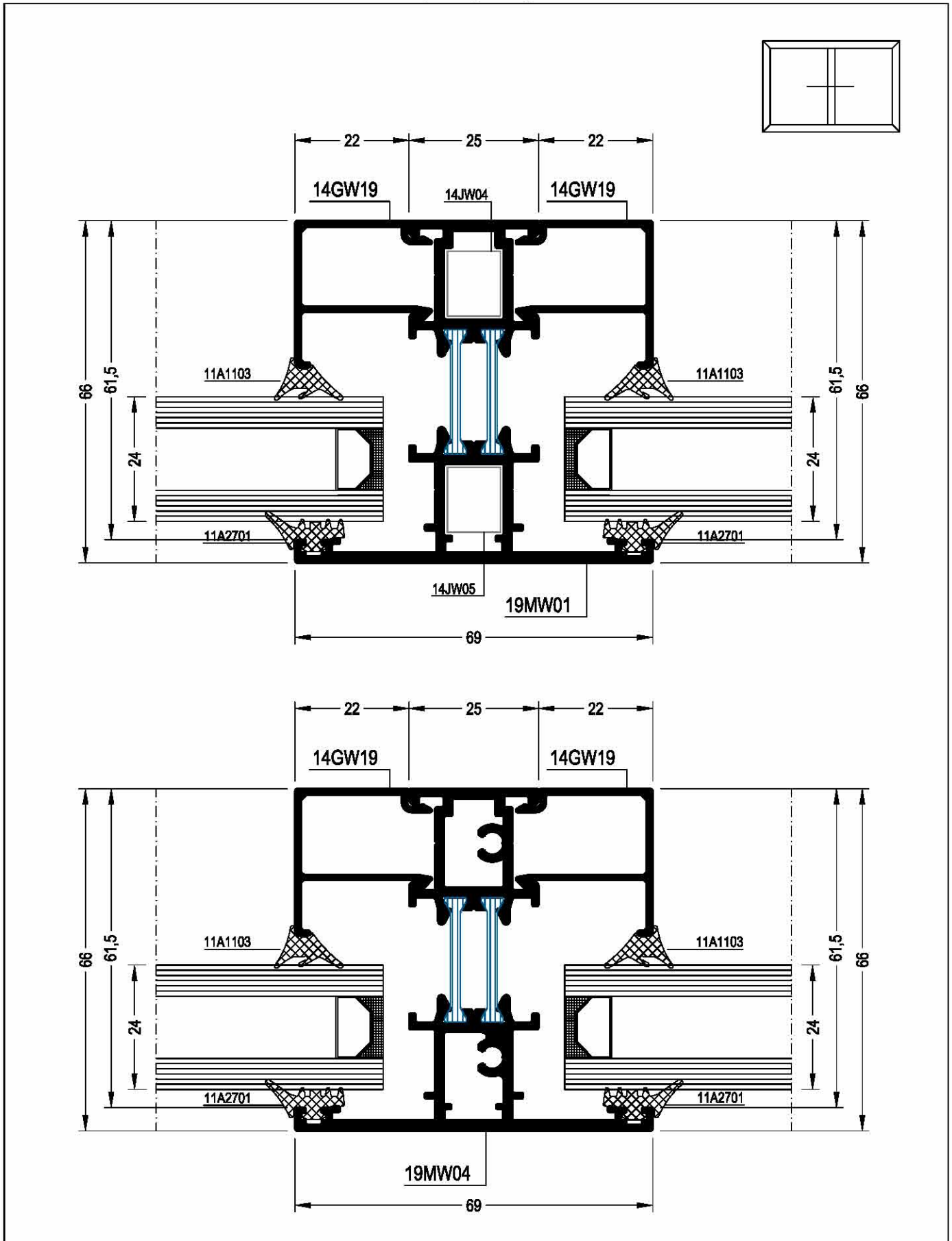


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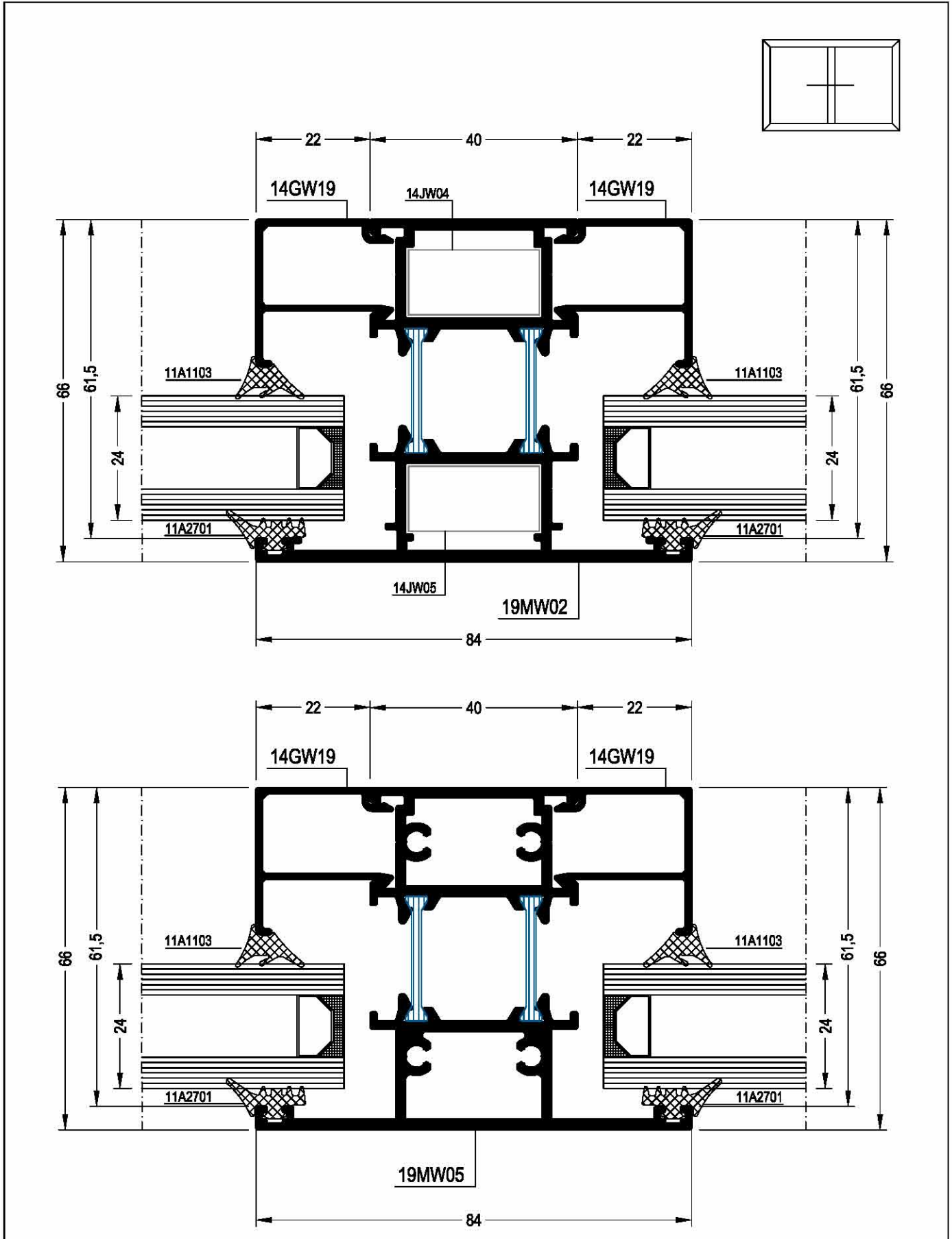




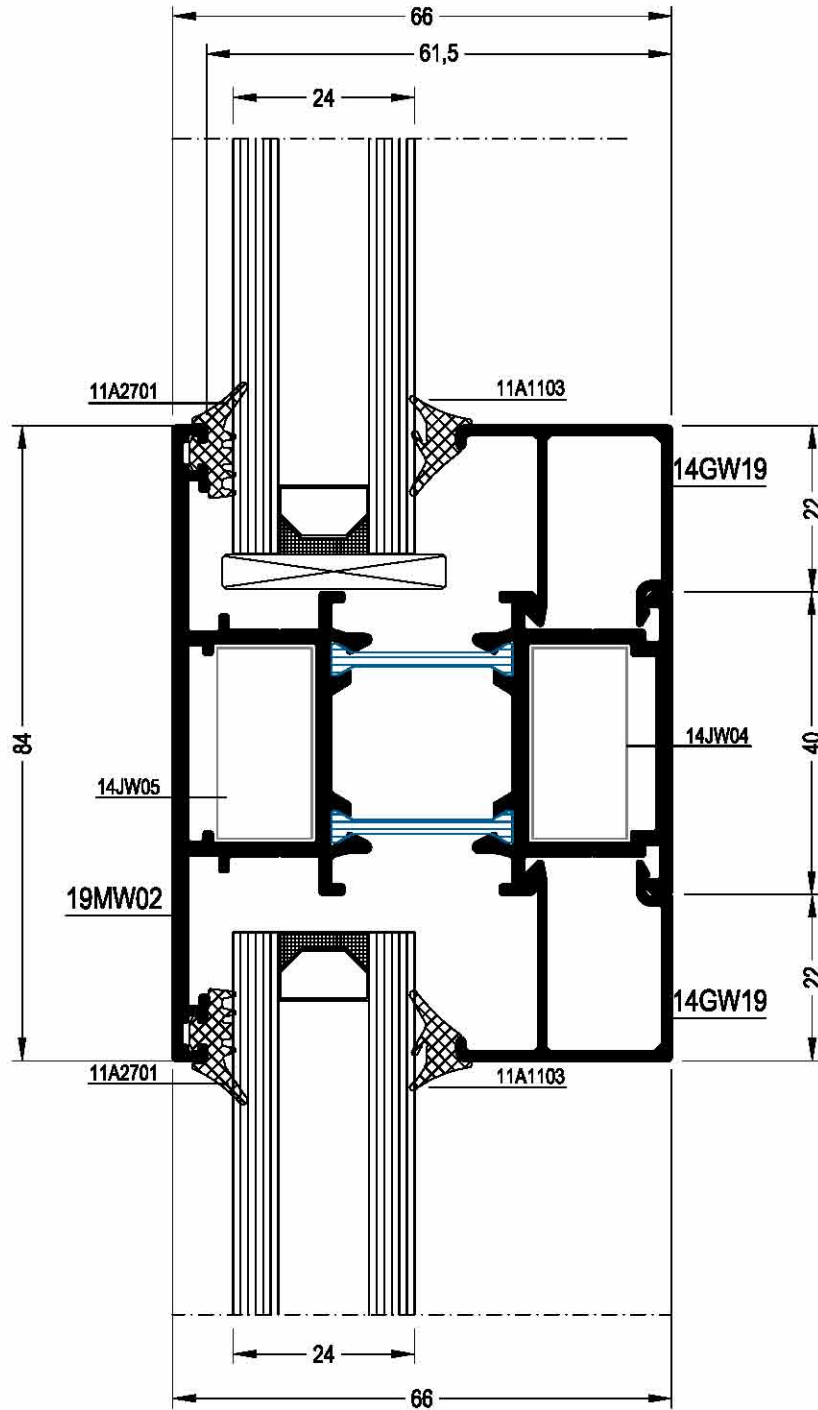
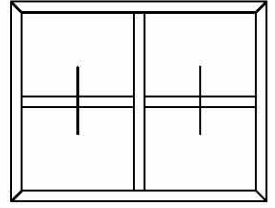
TURNING WINDOW



TURNING WINDOW

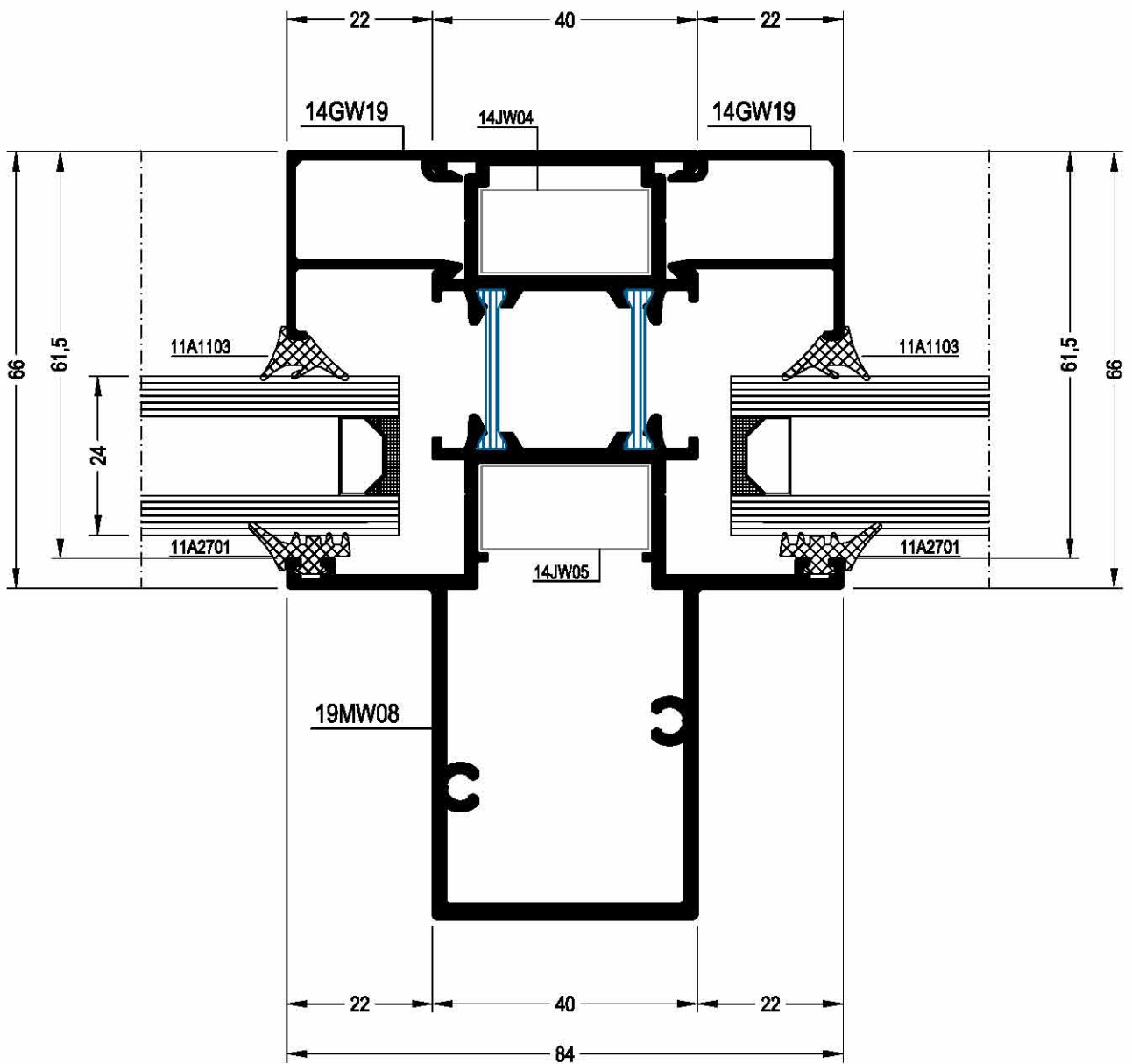
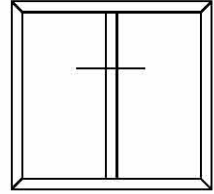


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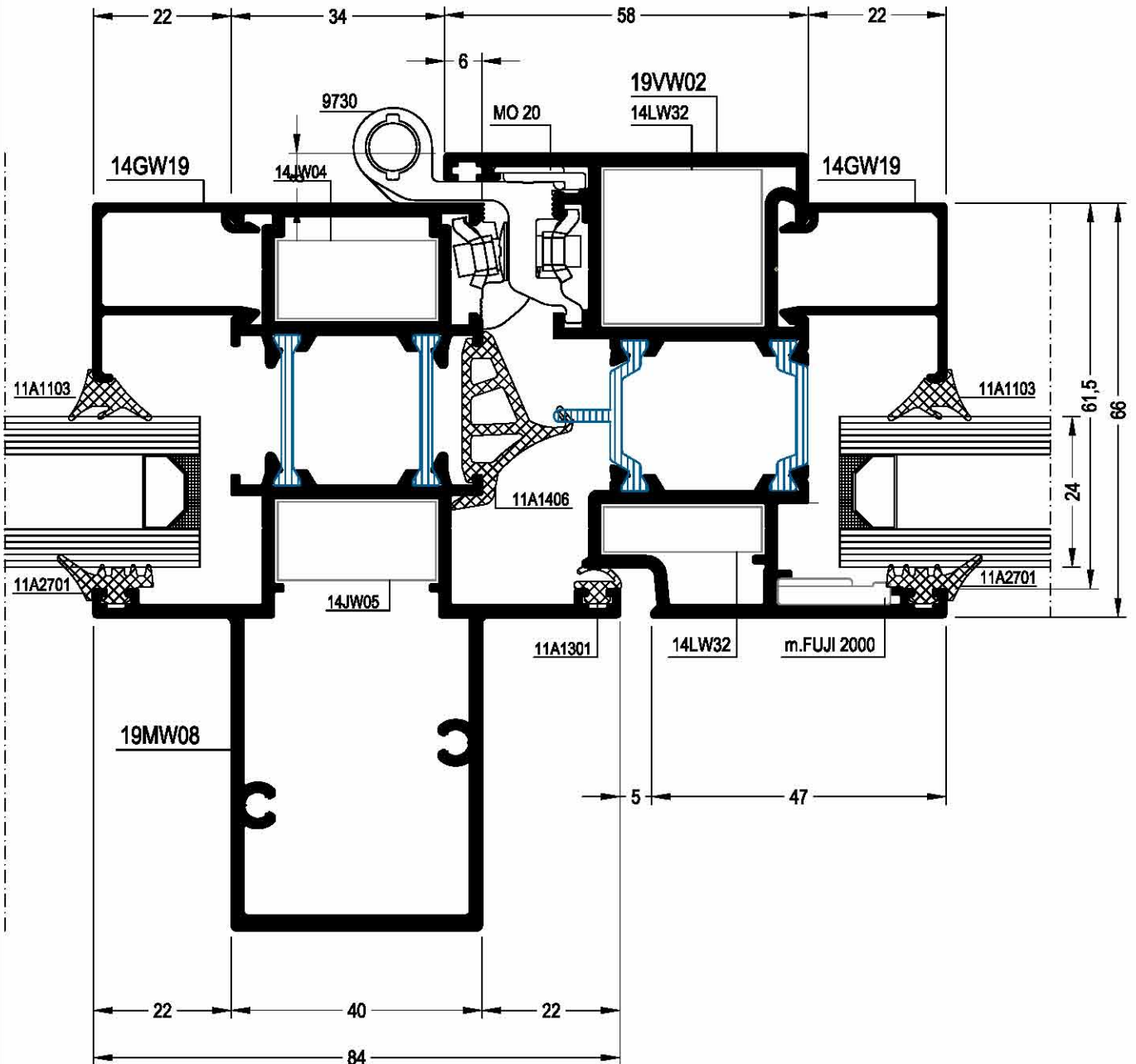
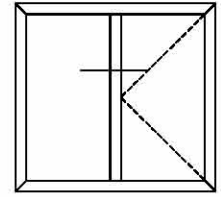




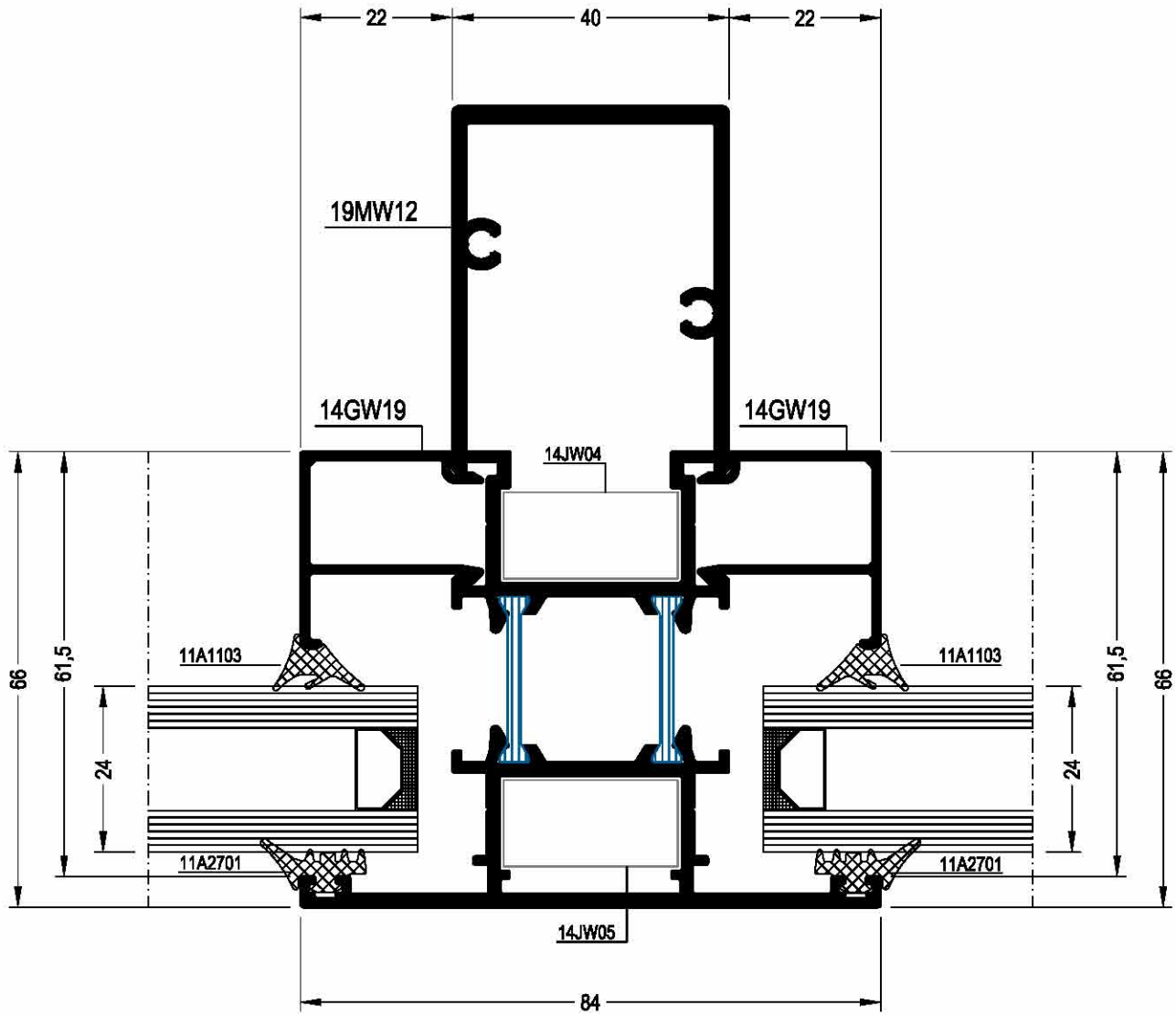
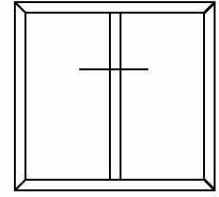
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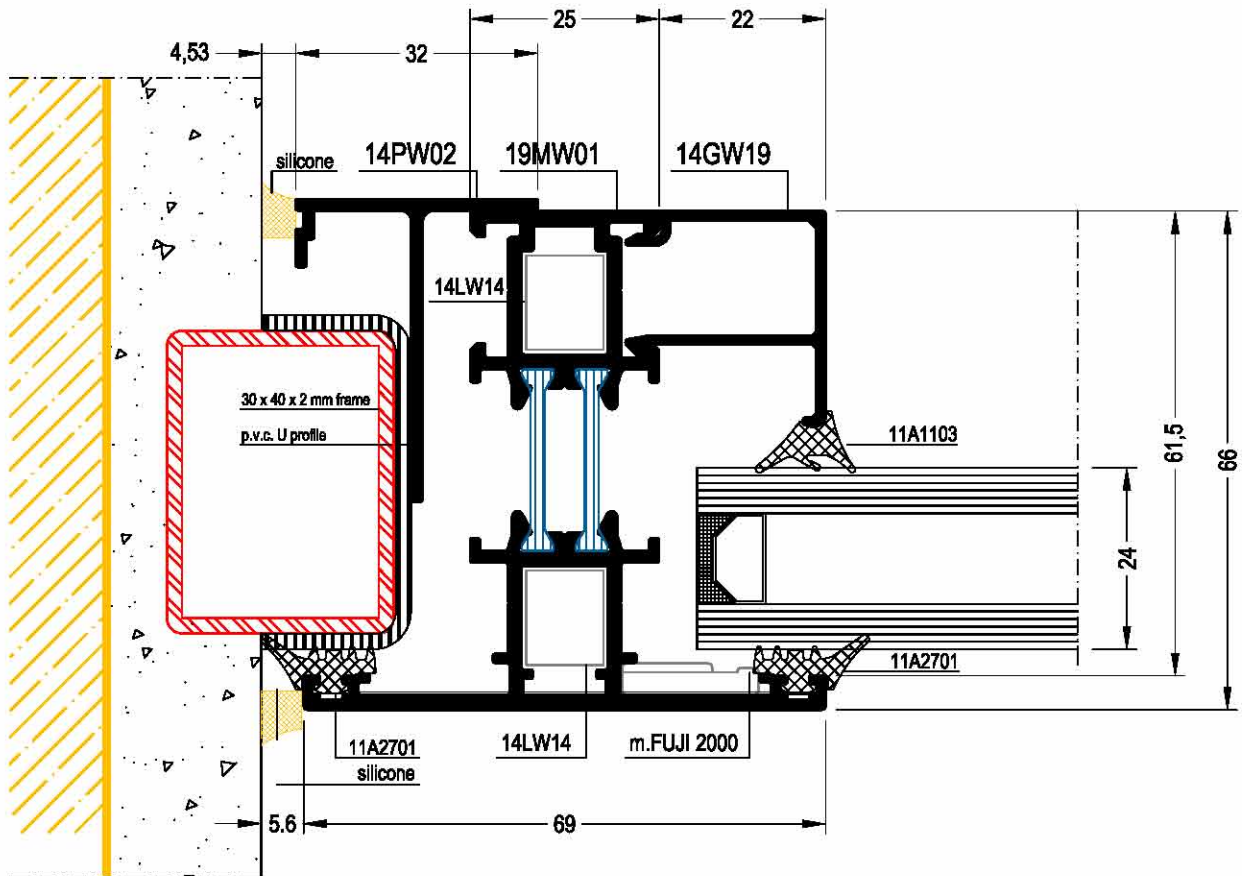
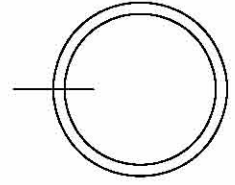
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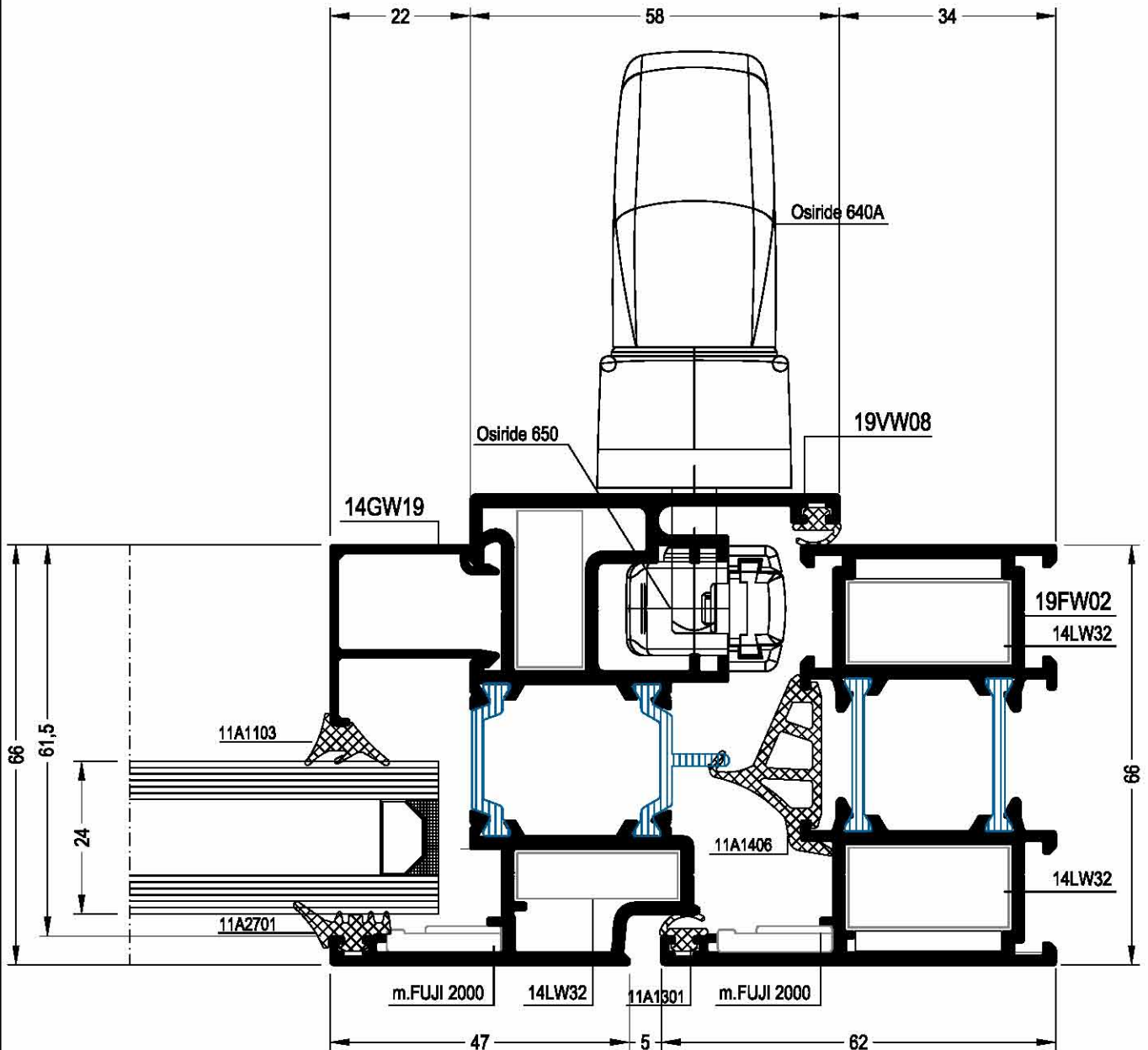
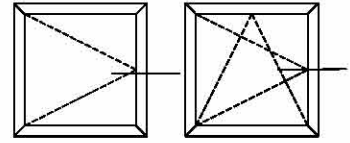
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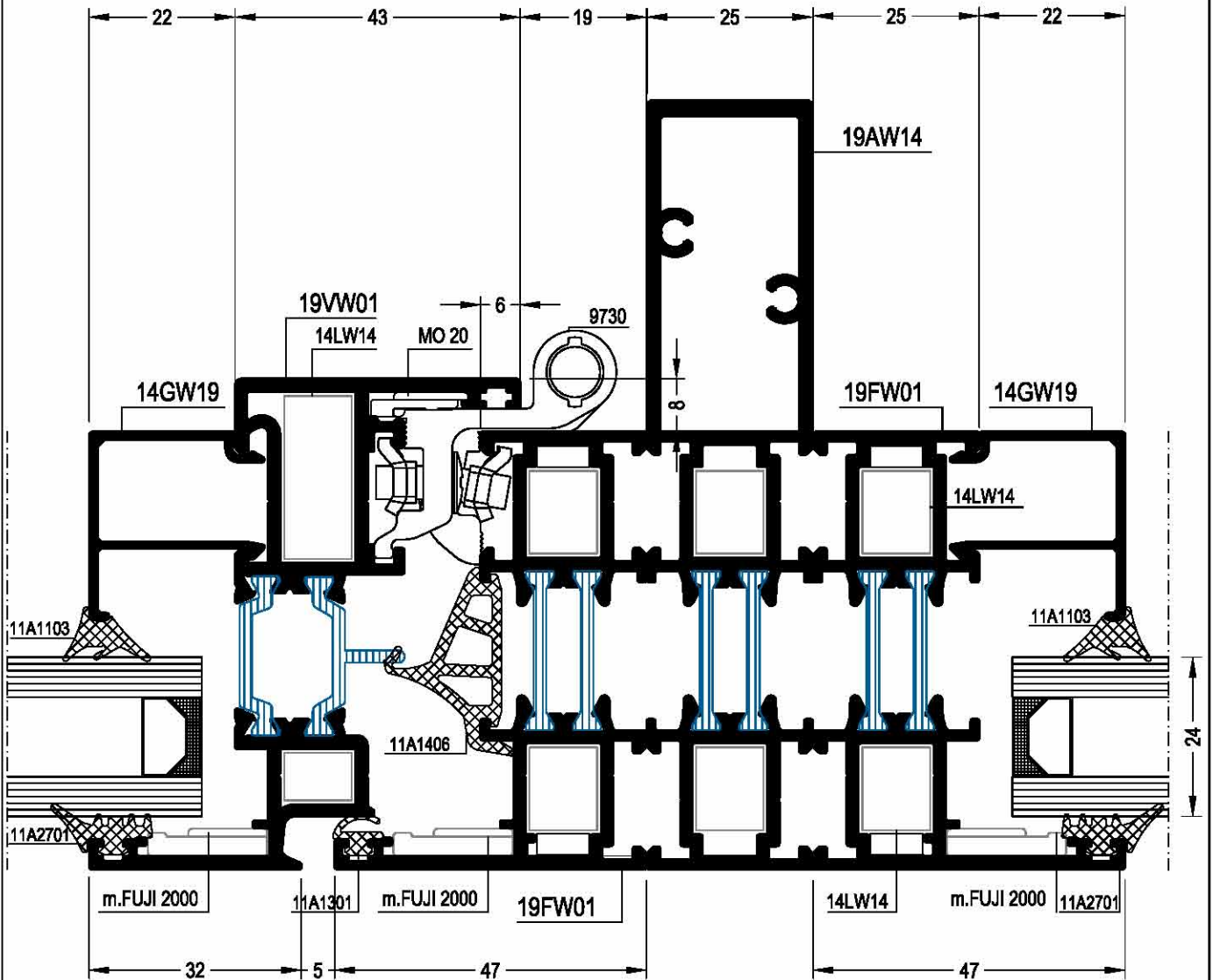
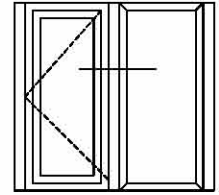
TURNING WINDOW



TURNING WINDOW

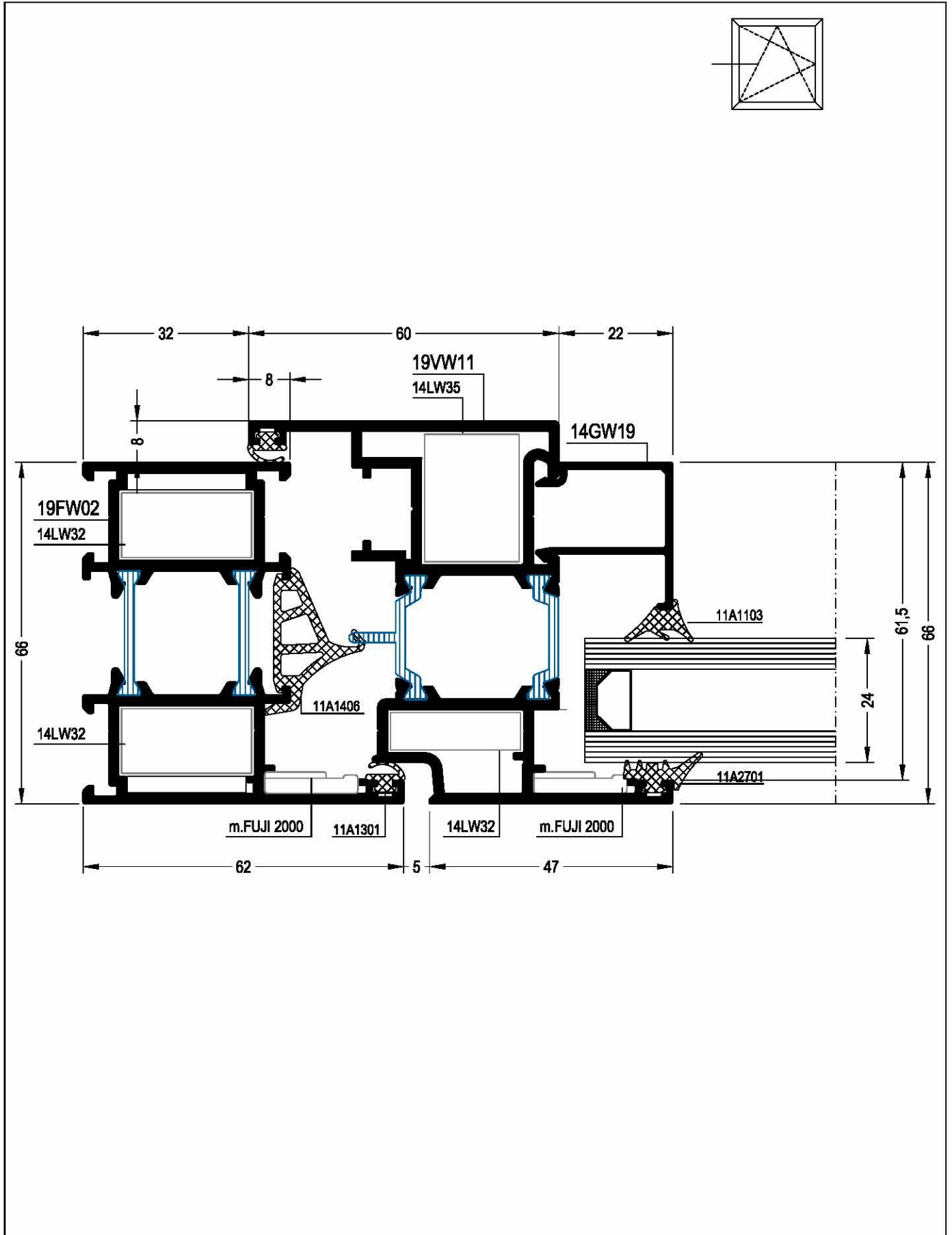


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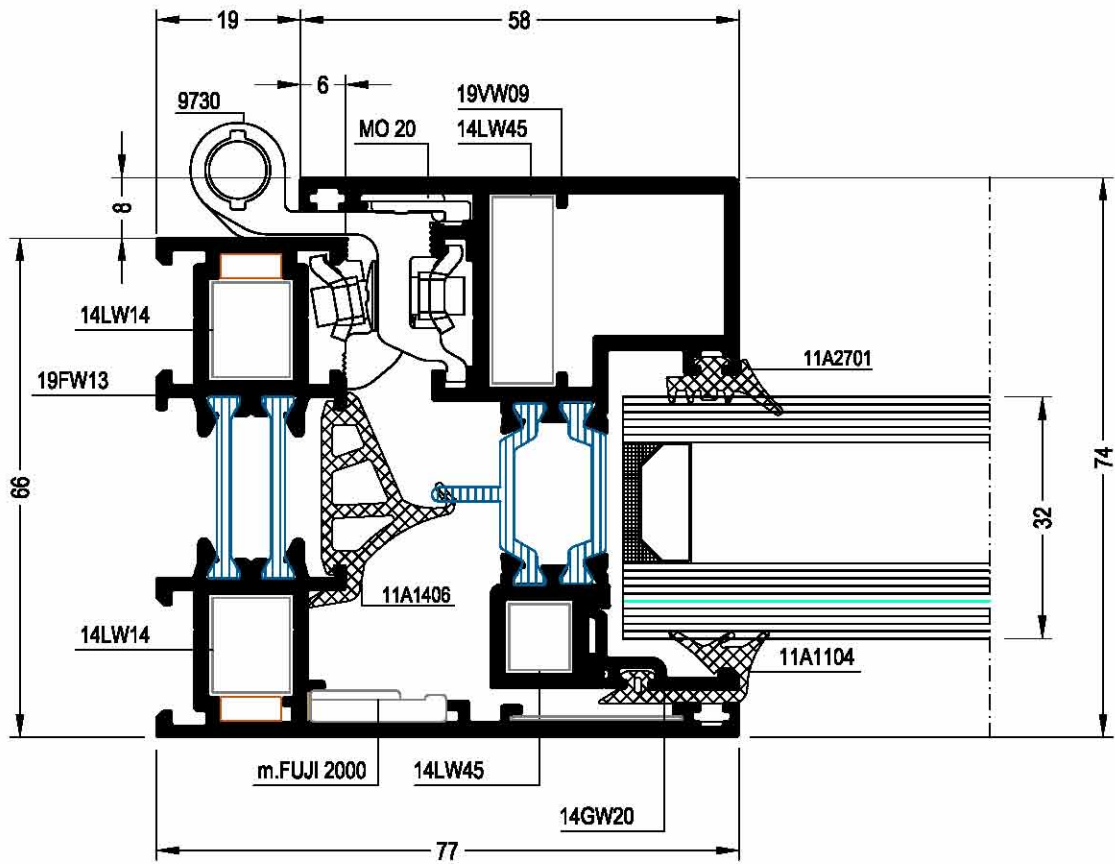
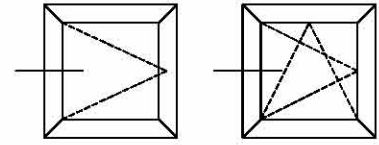




TURNING WINDOW FOR P.V.C. ACCESSORIES

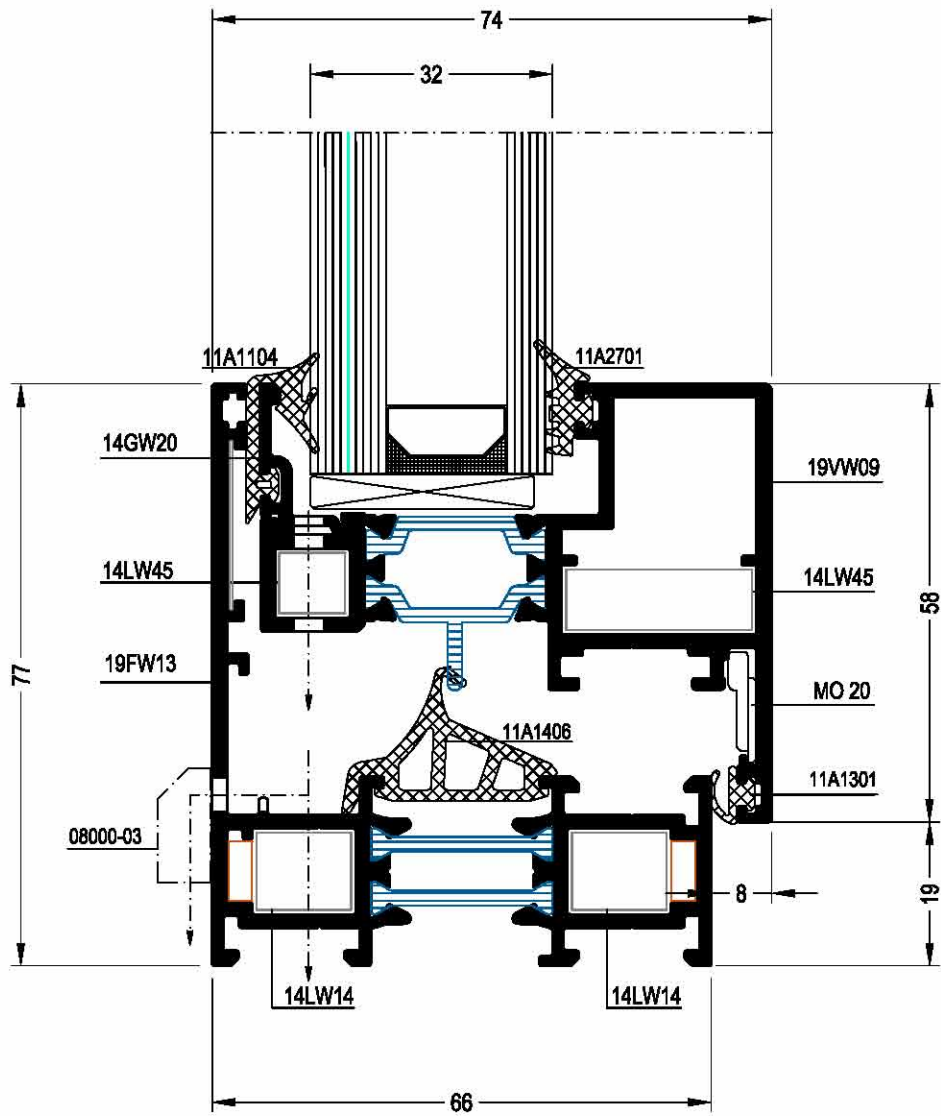
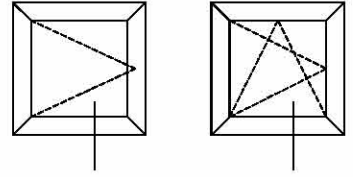


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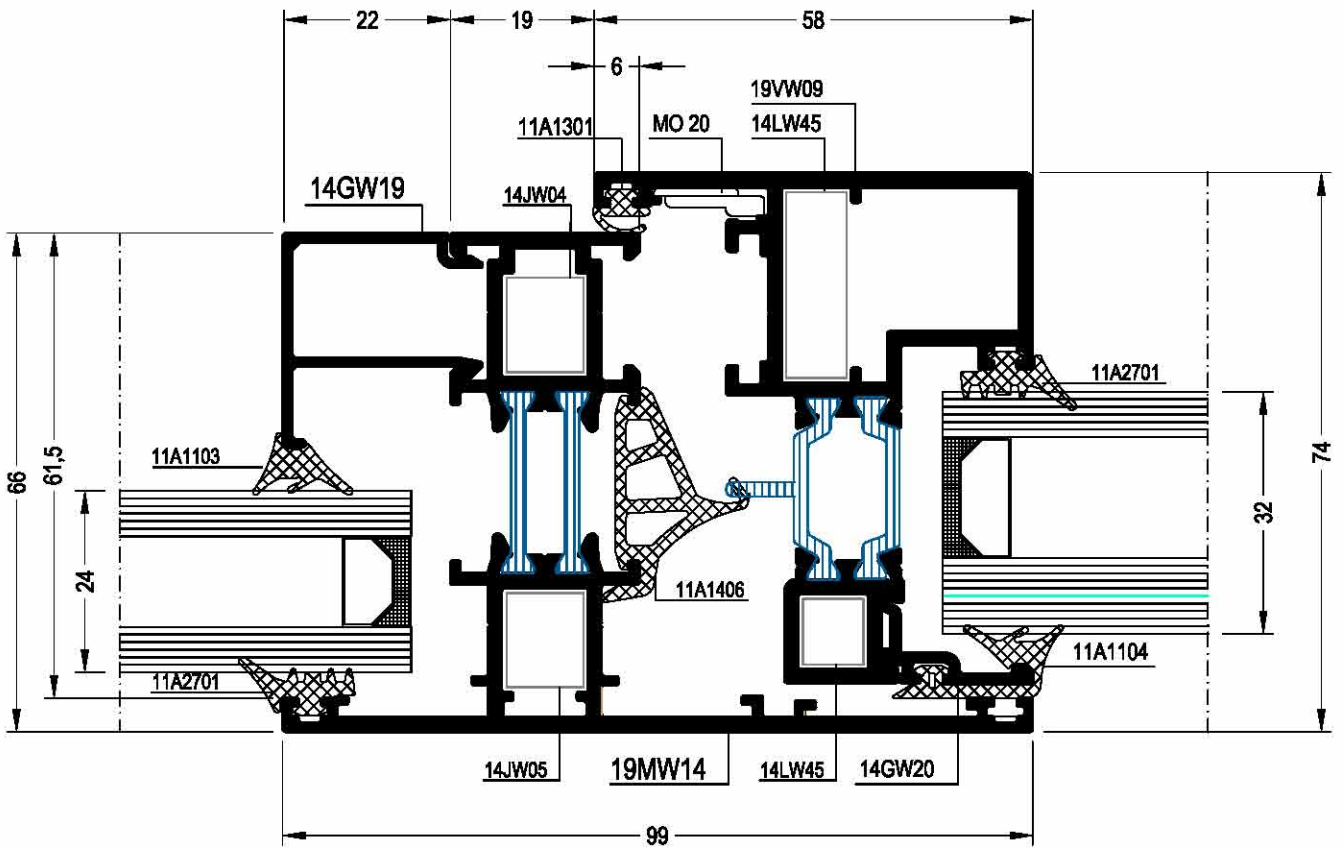
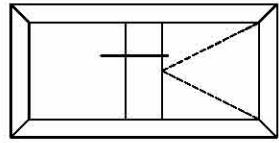




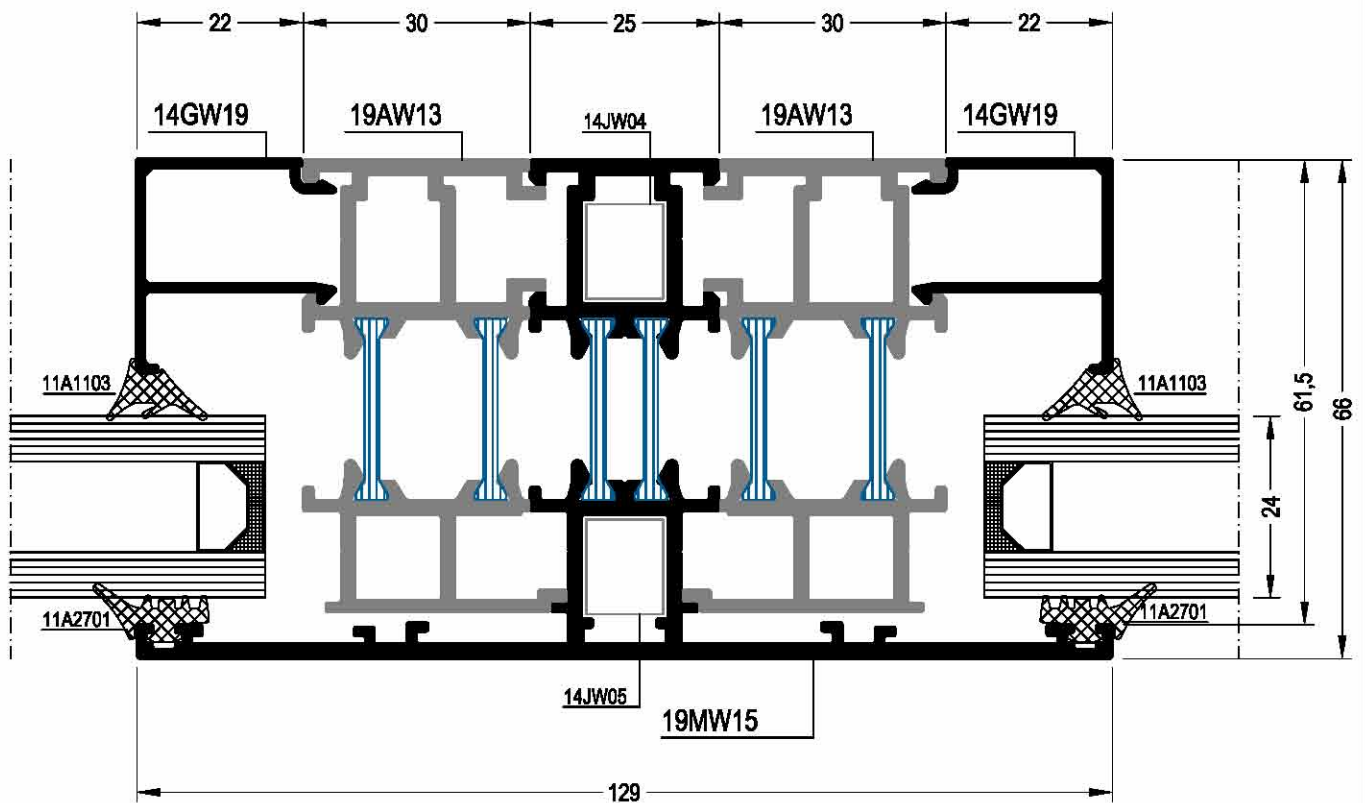
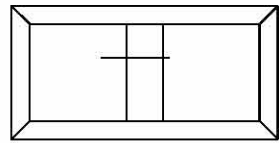
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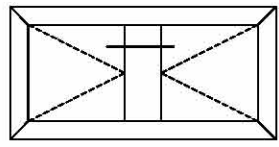
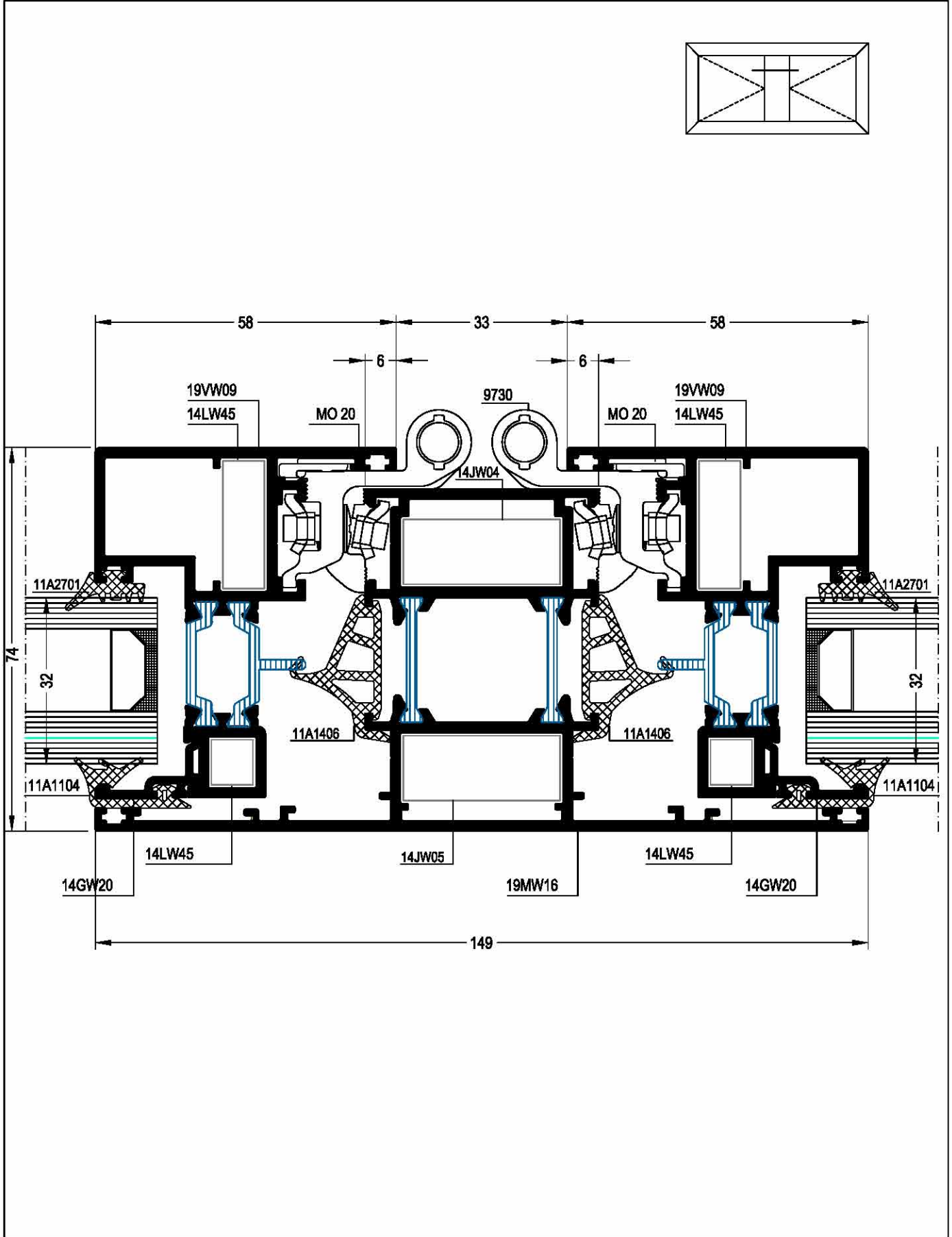
TURNING WINDOW



TURNING WINDOW

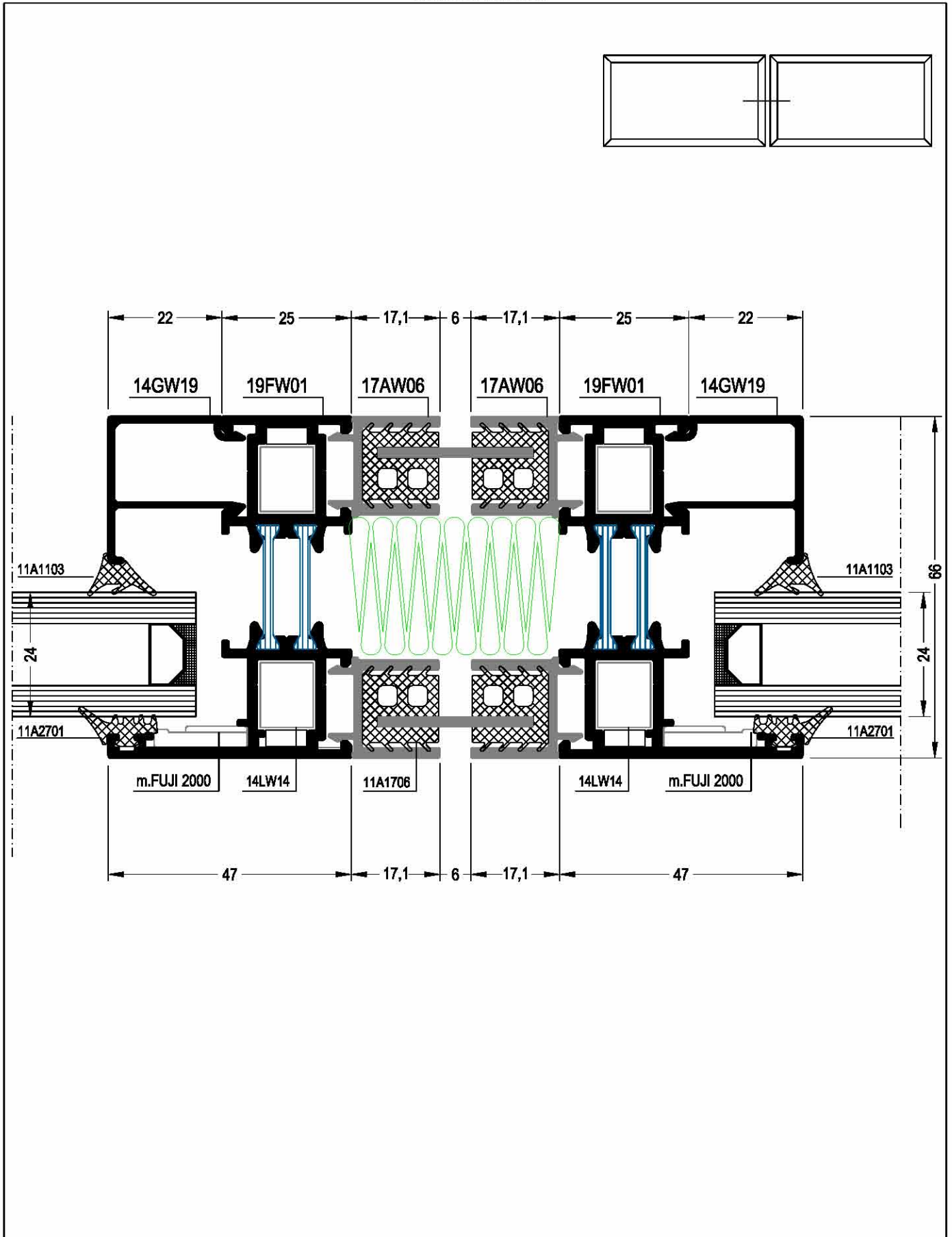


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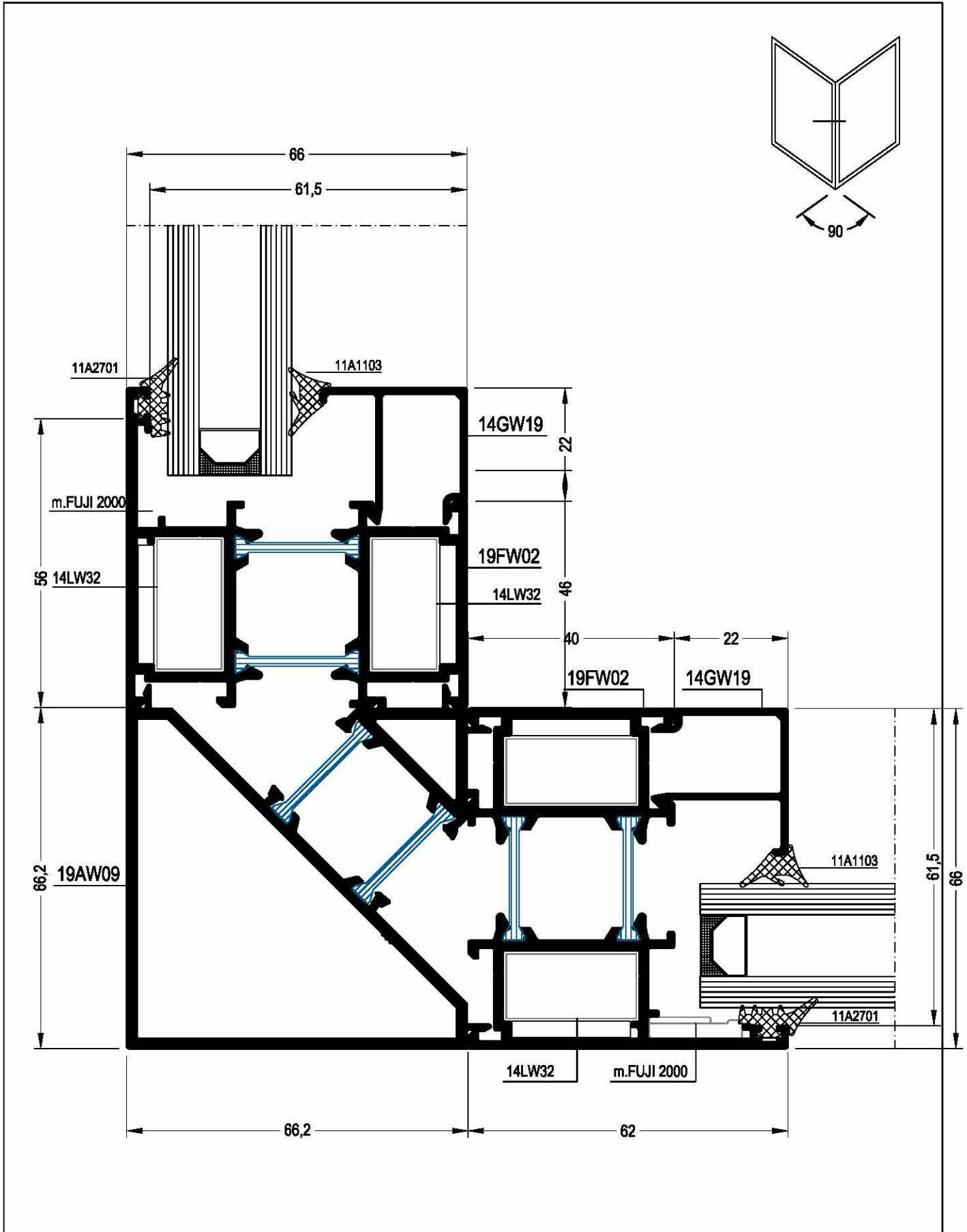




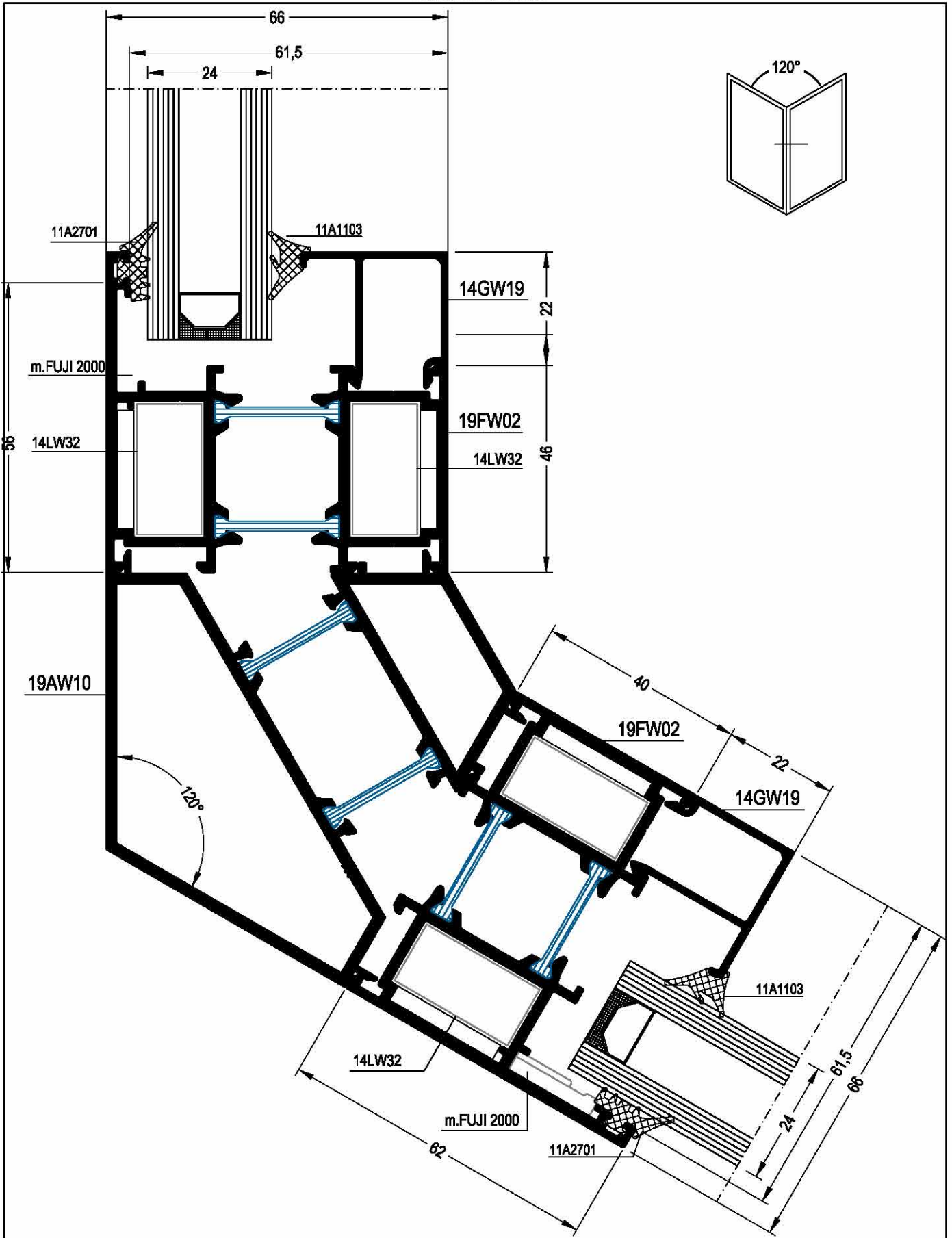
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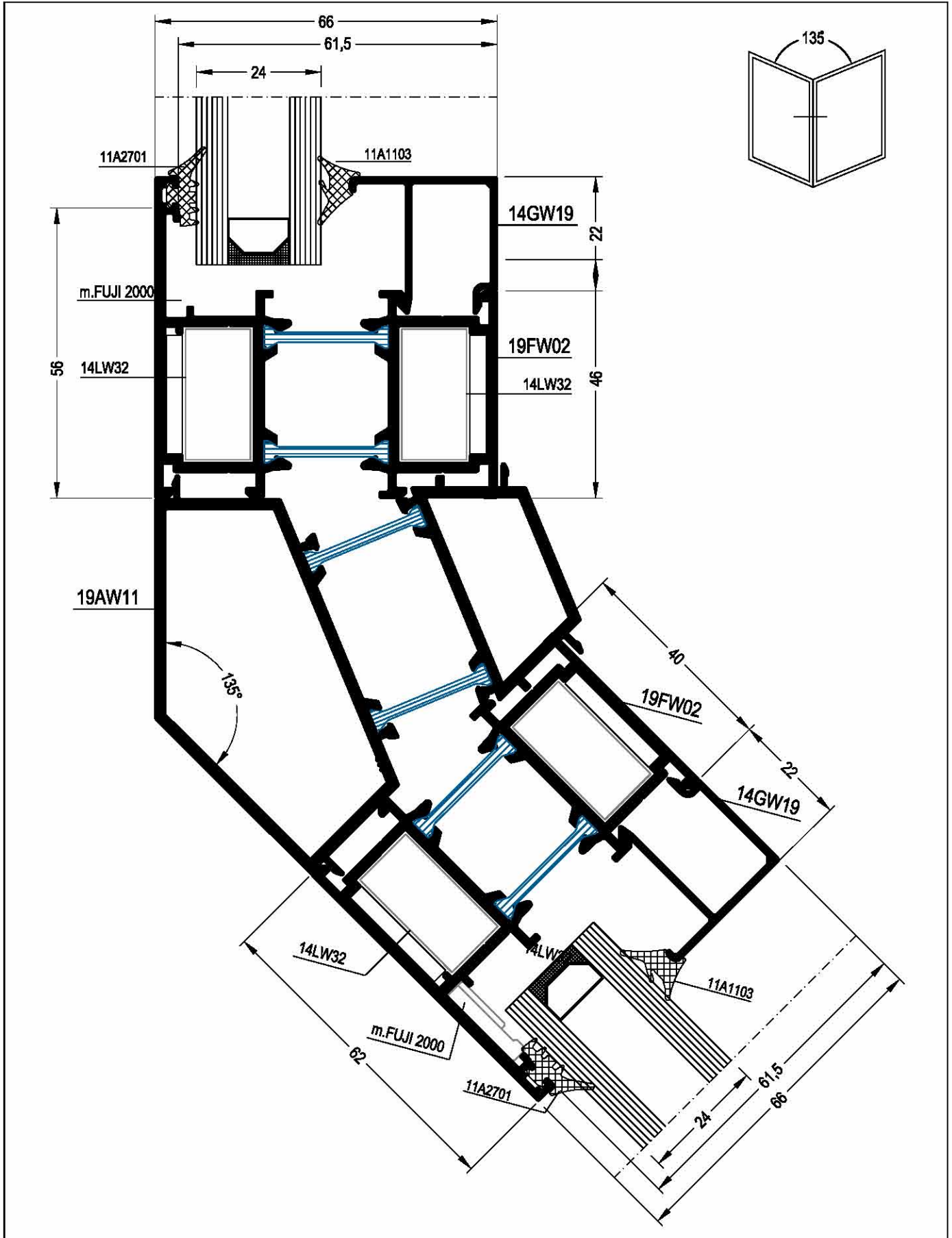
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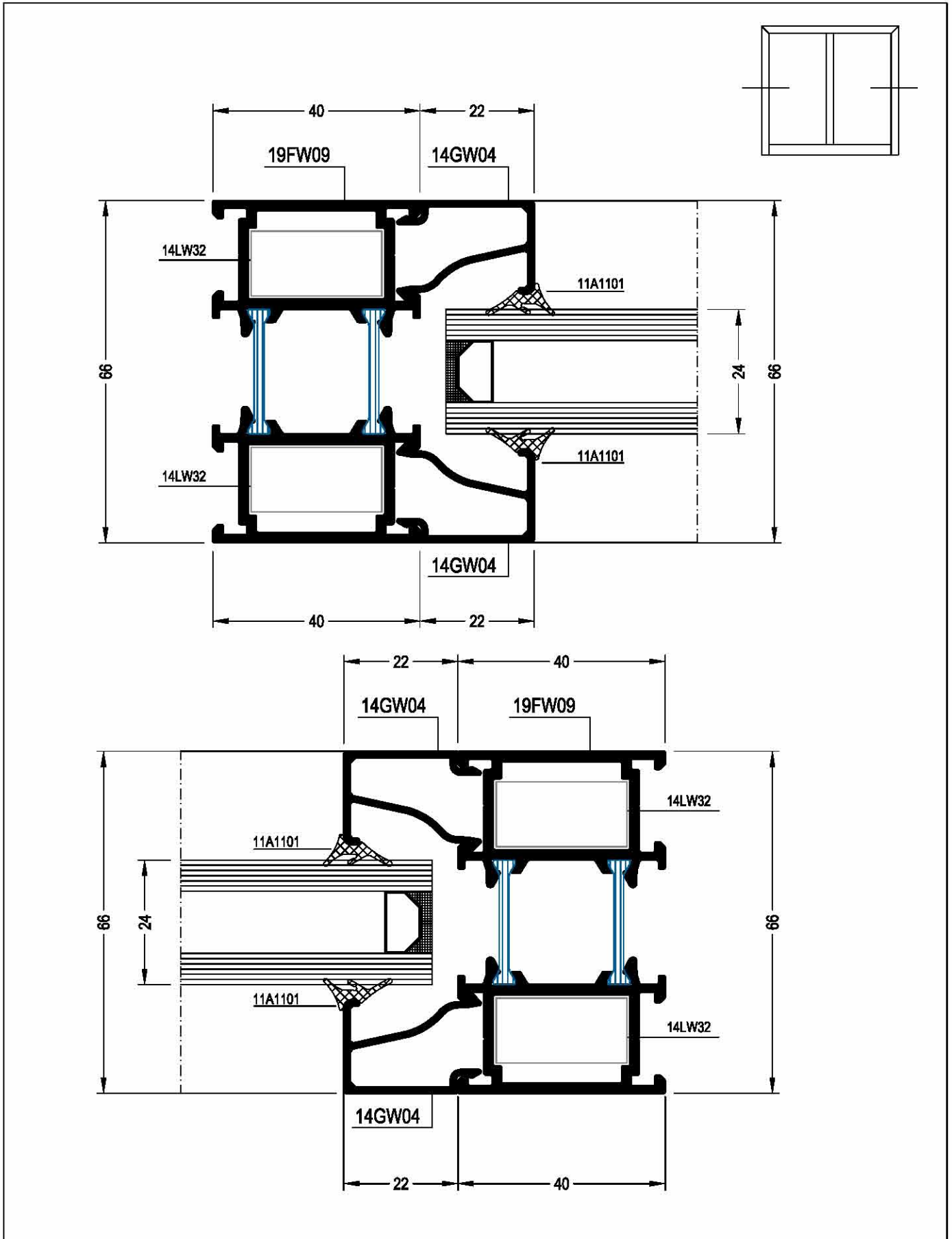
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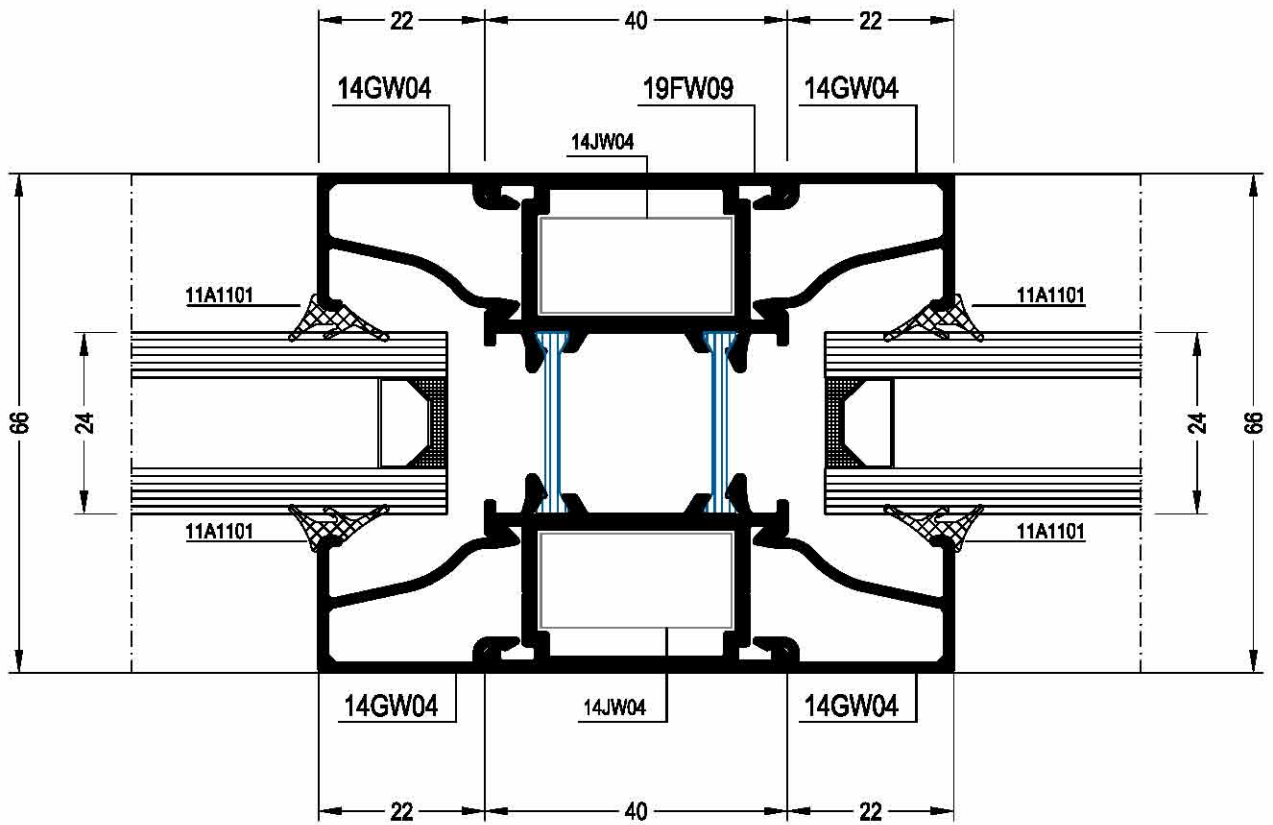
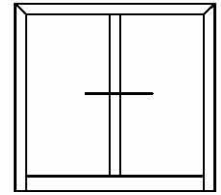
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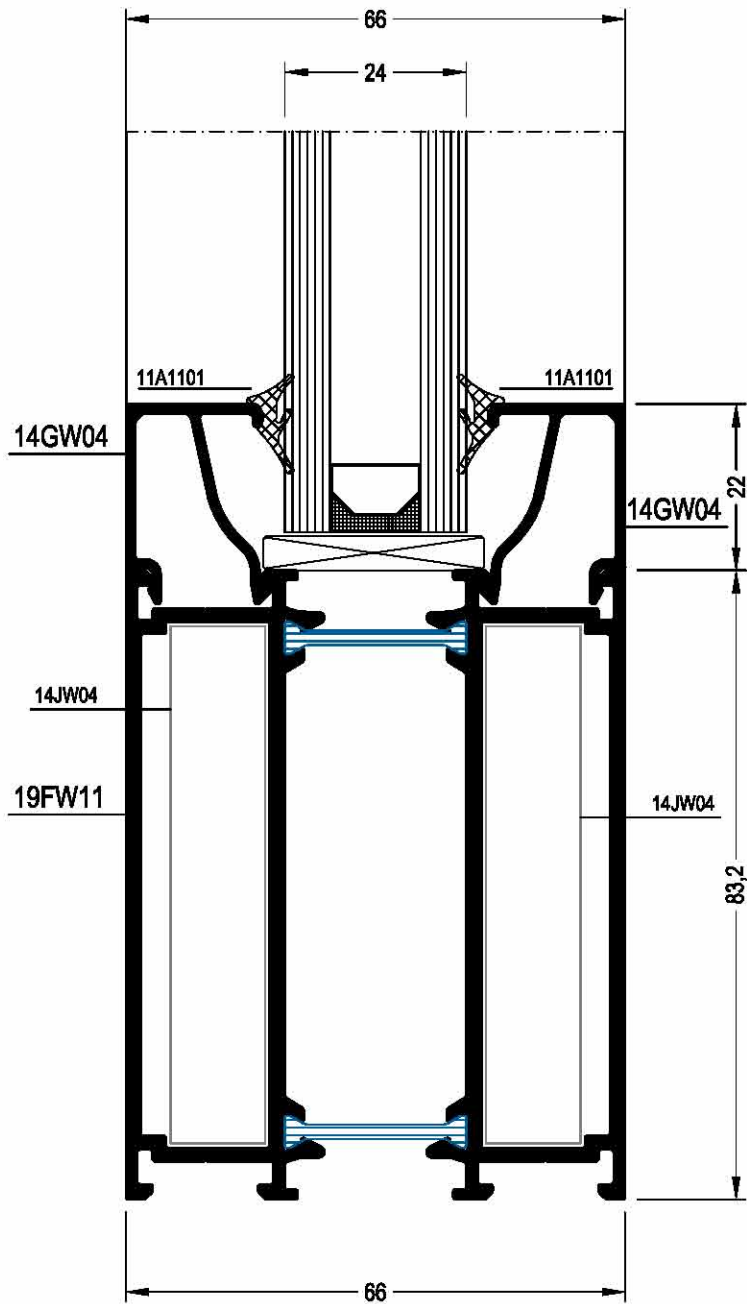
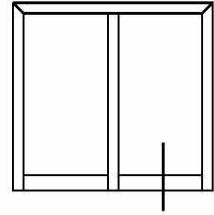
TURNING WINDOW



TURNING WINDOW

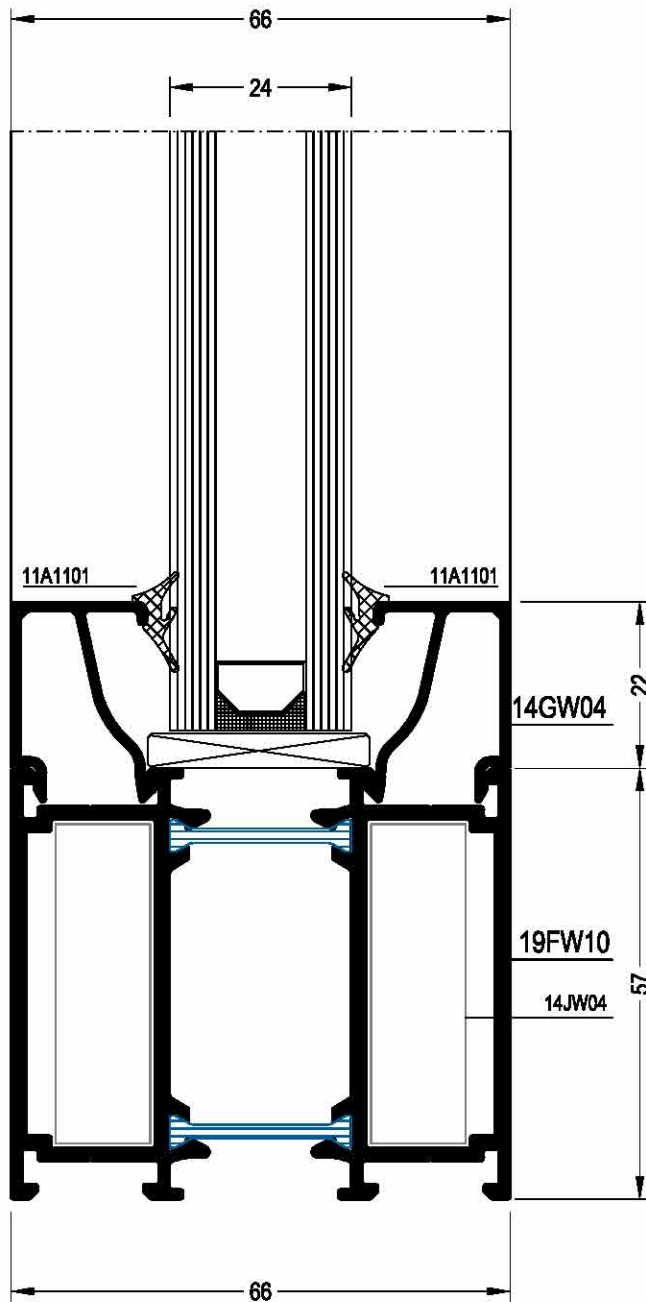
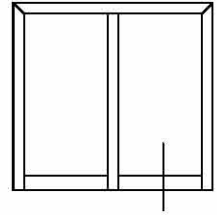


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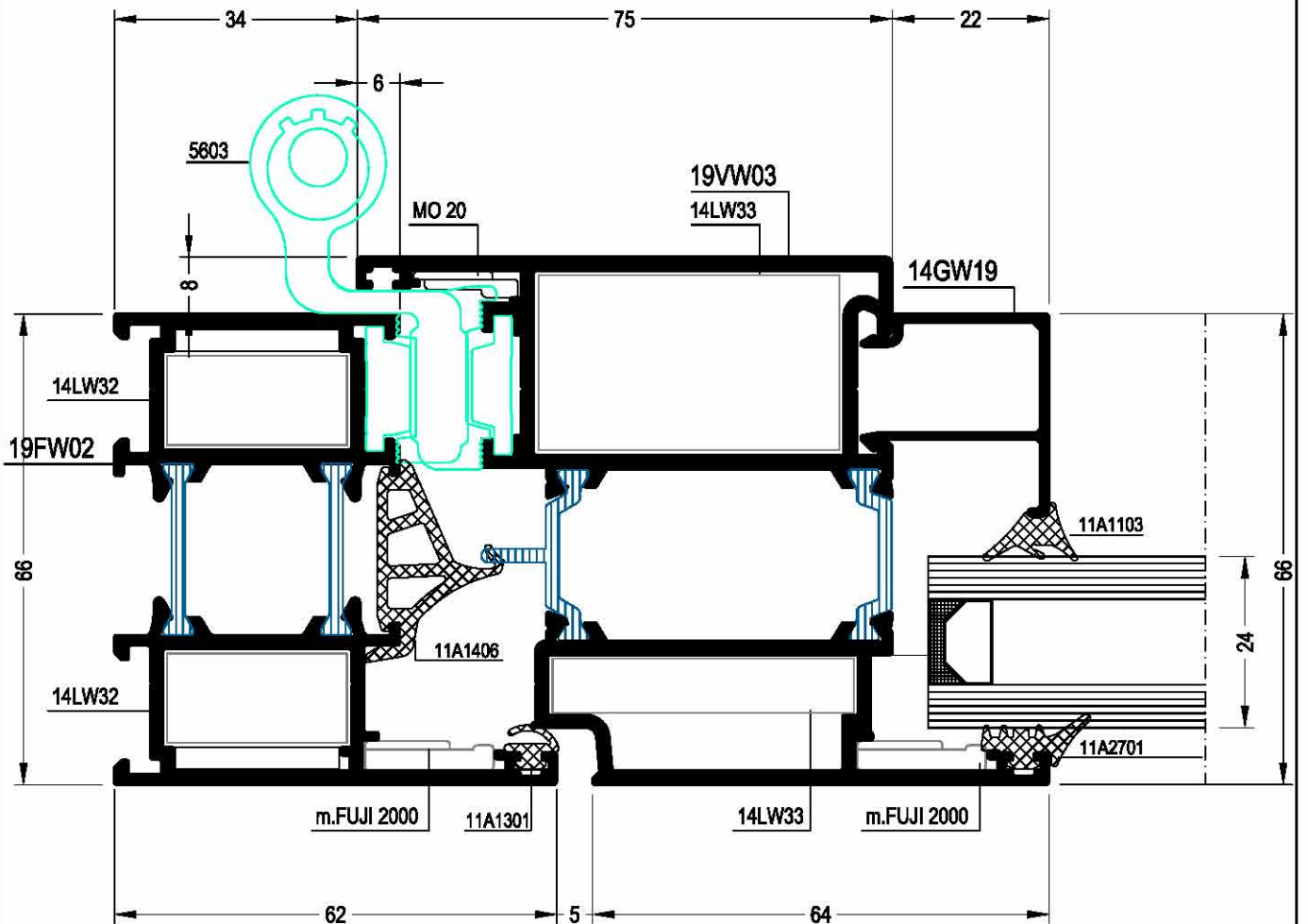
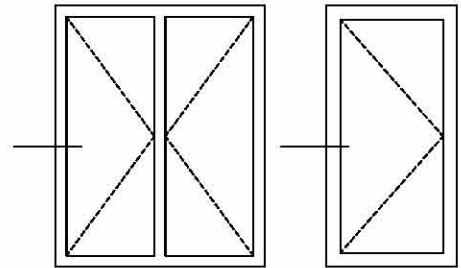




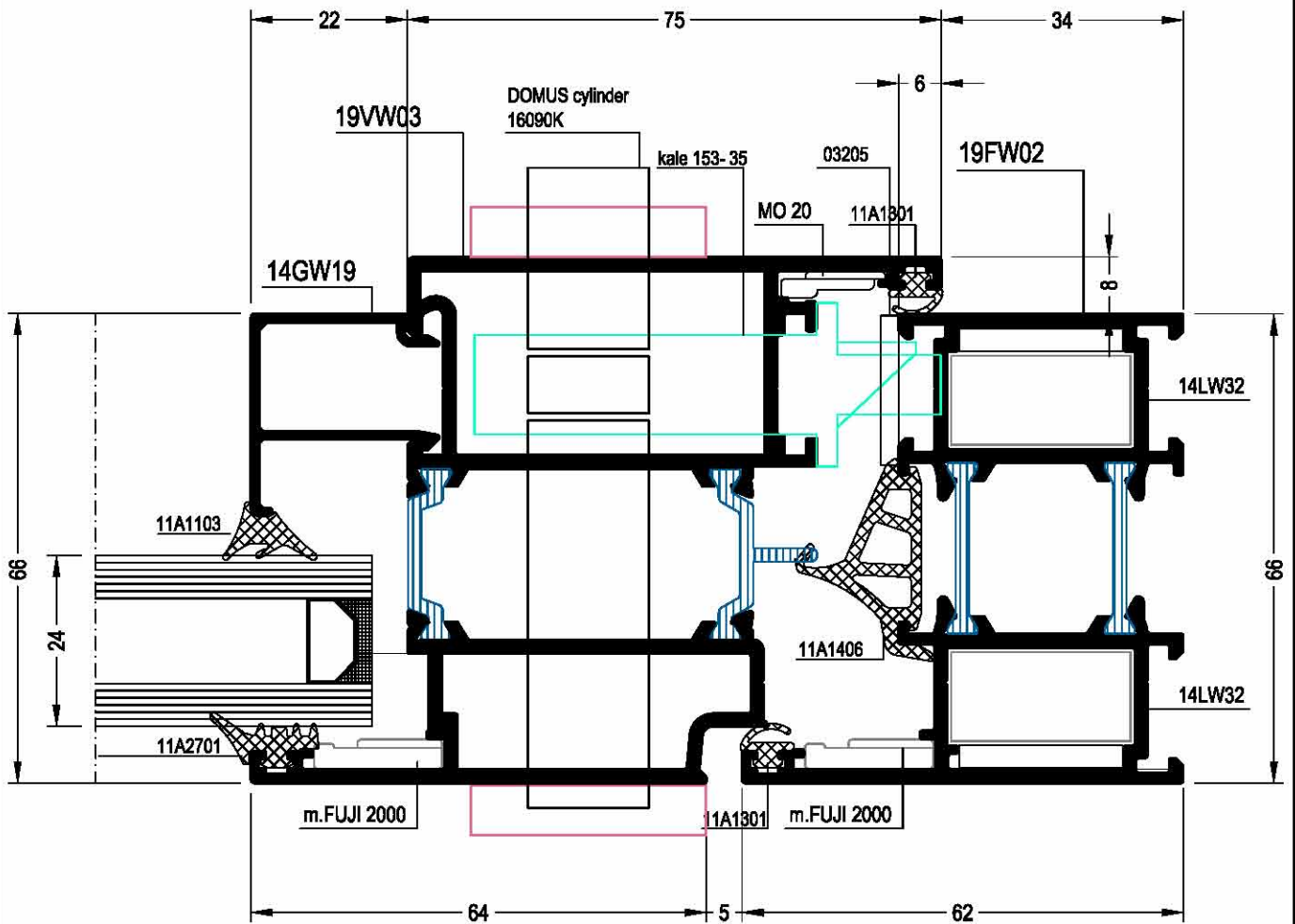
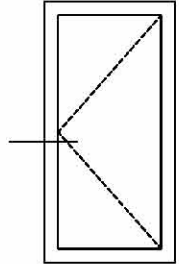
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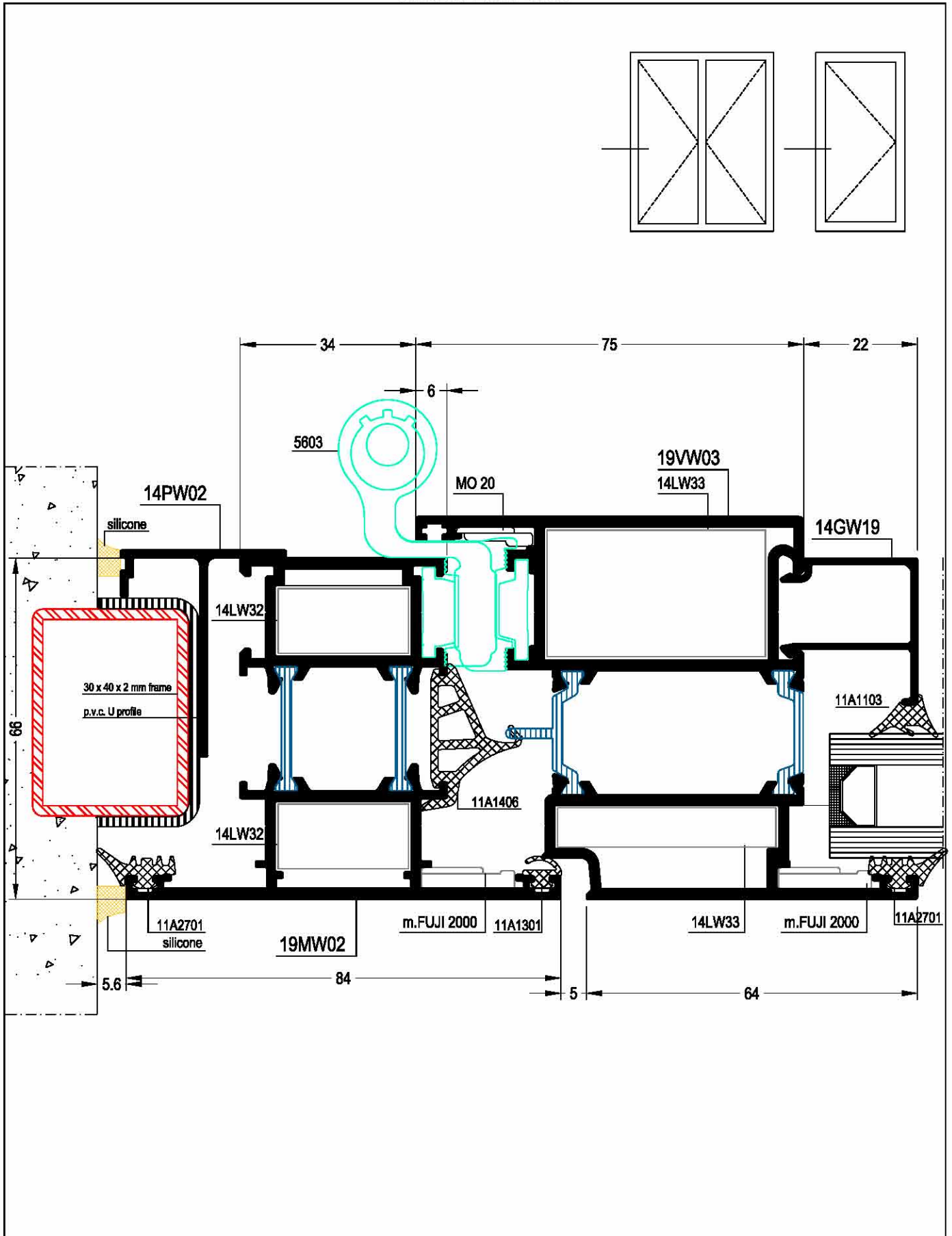
INSIDE OPENING DOOR



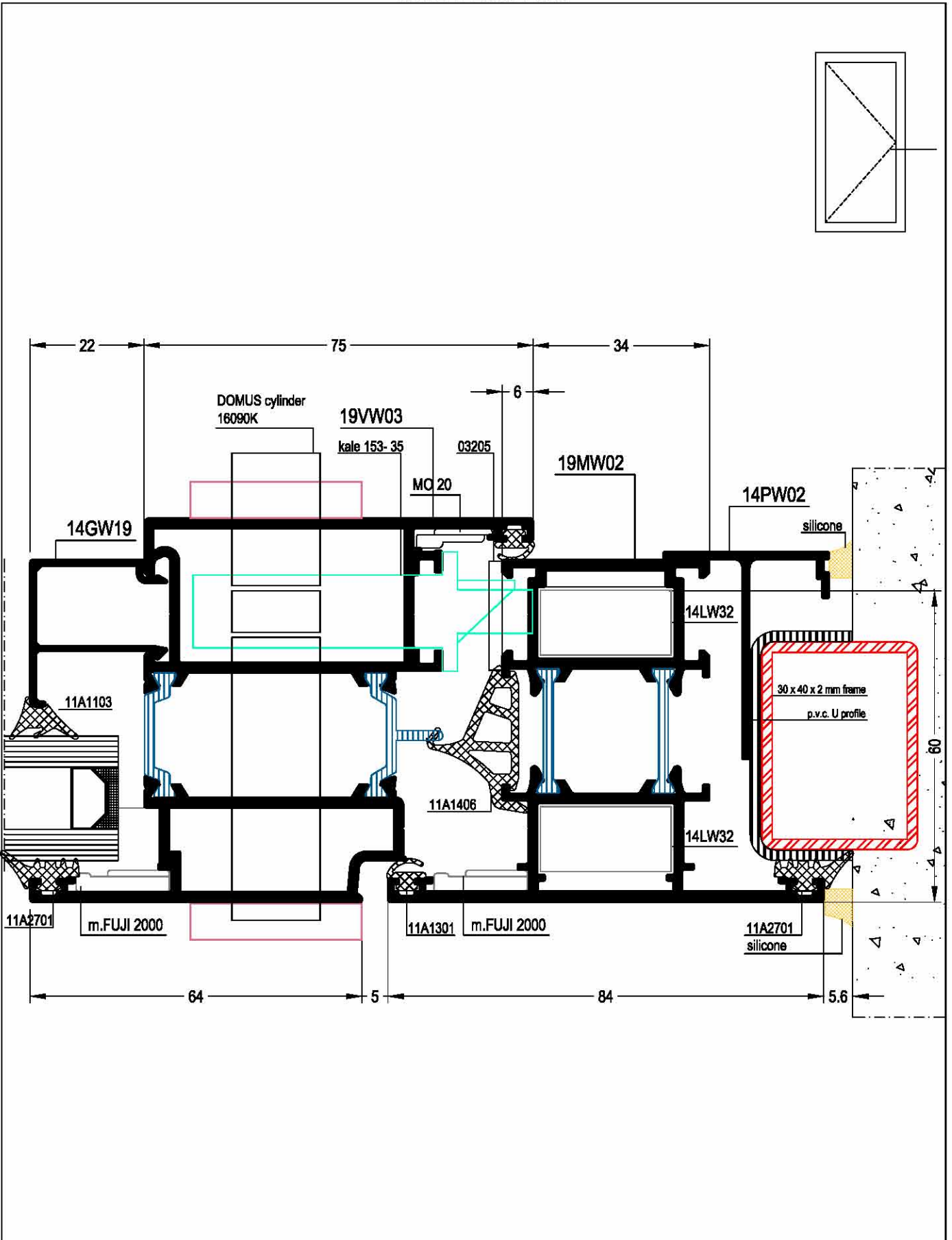
INSIDE OPENING DOOR



INSIDE OPENING DOOR



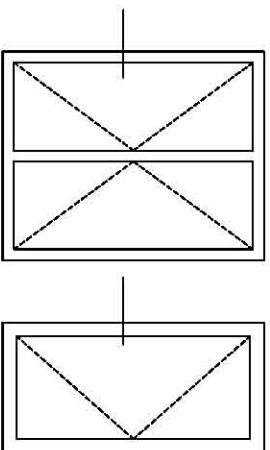
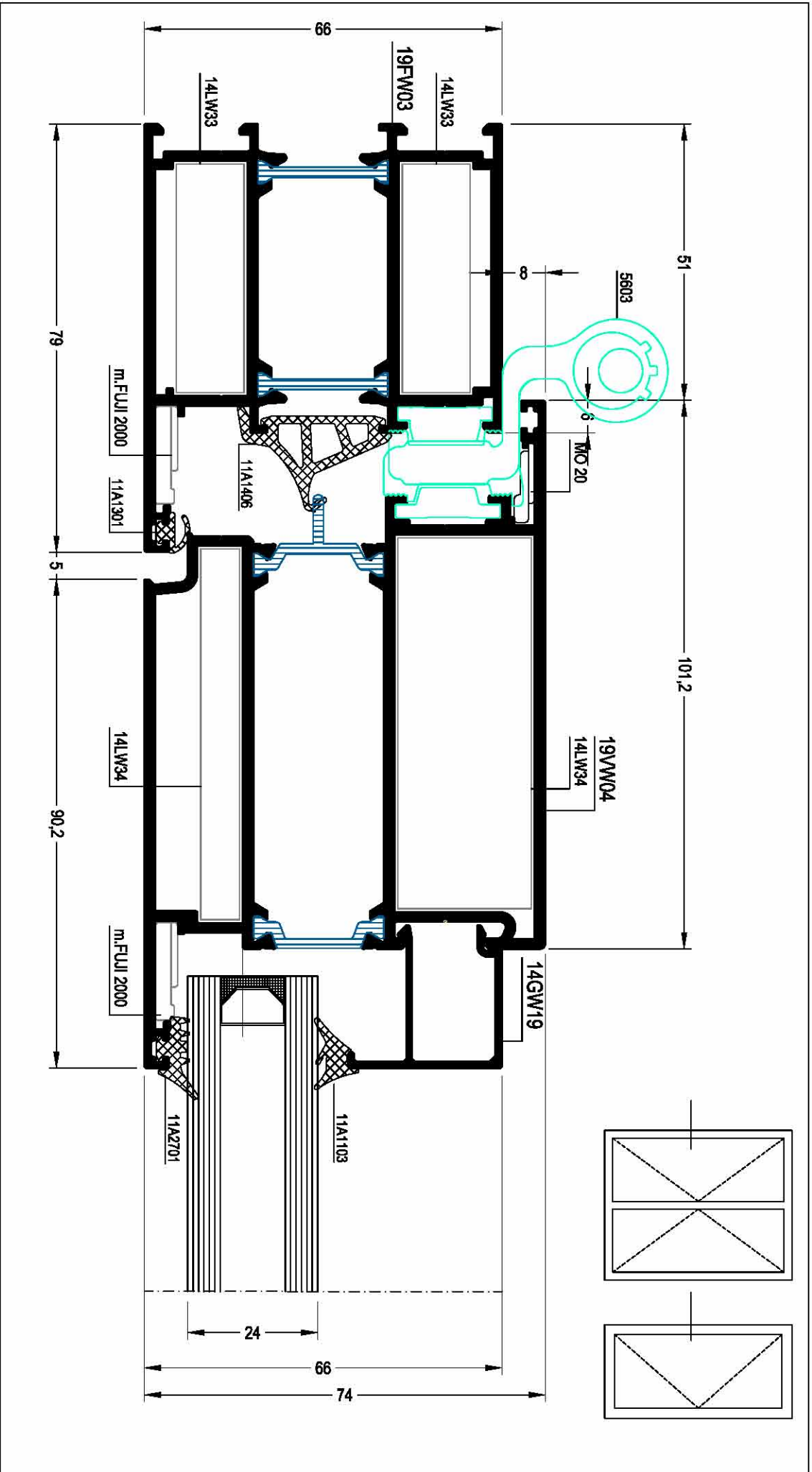
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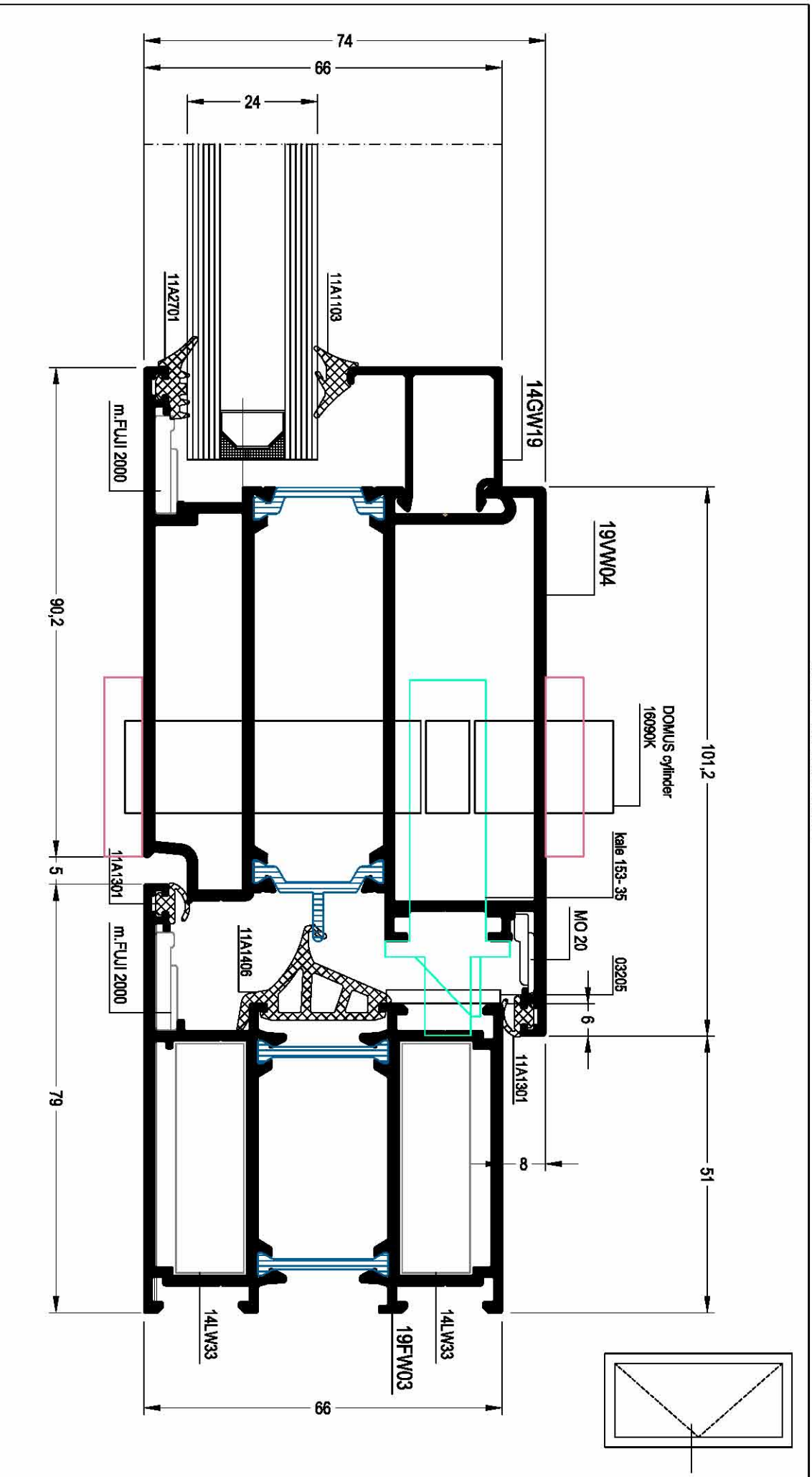
**SYSTEM CASTLE 1966 W+**

**DETAILS**

**INSIDE OPENING DOOR**

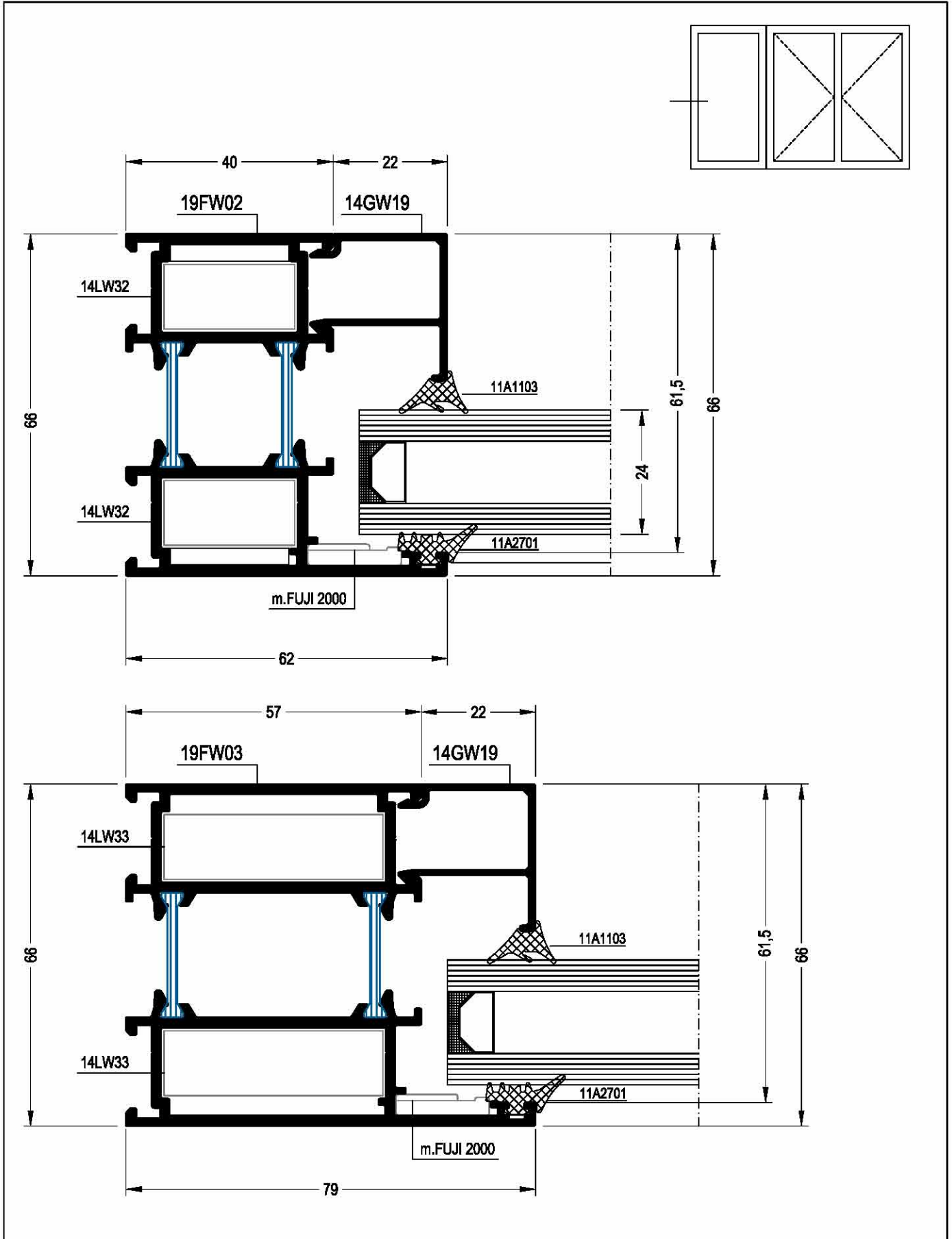


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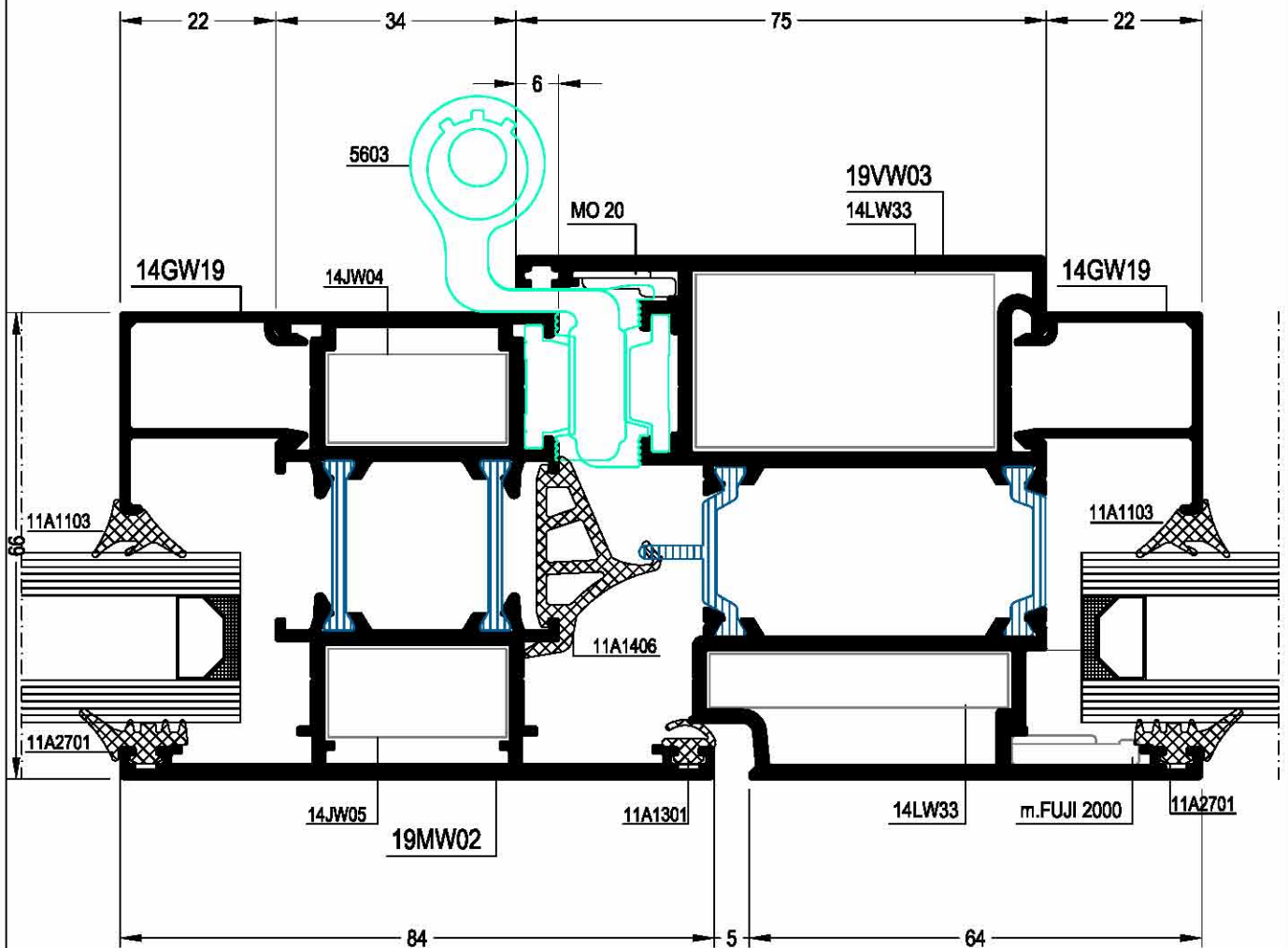
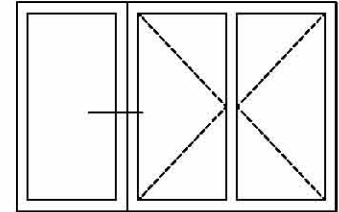




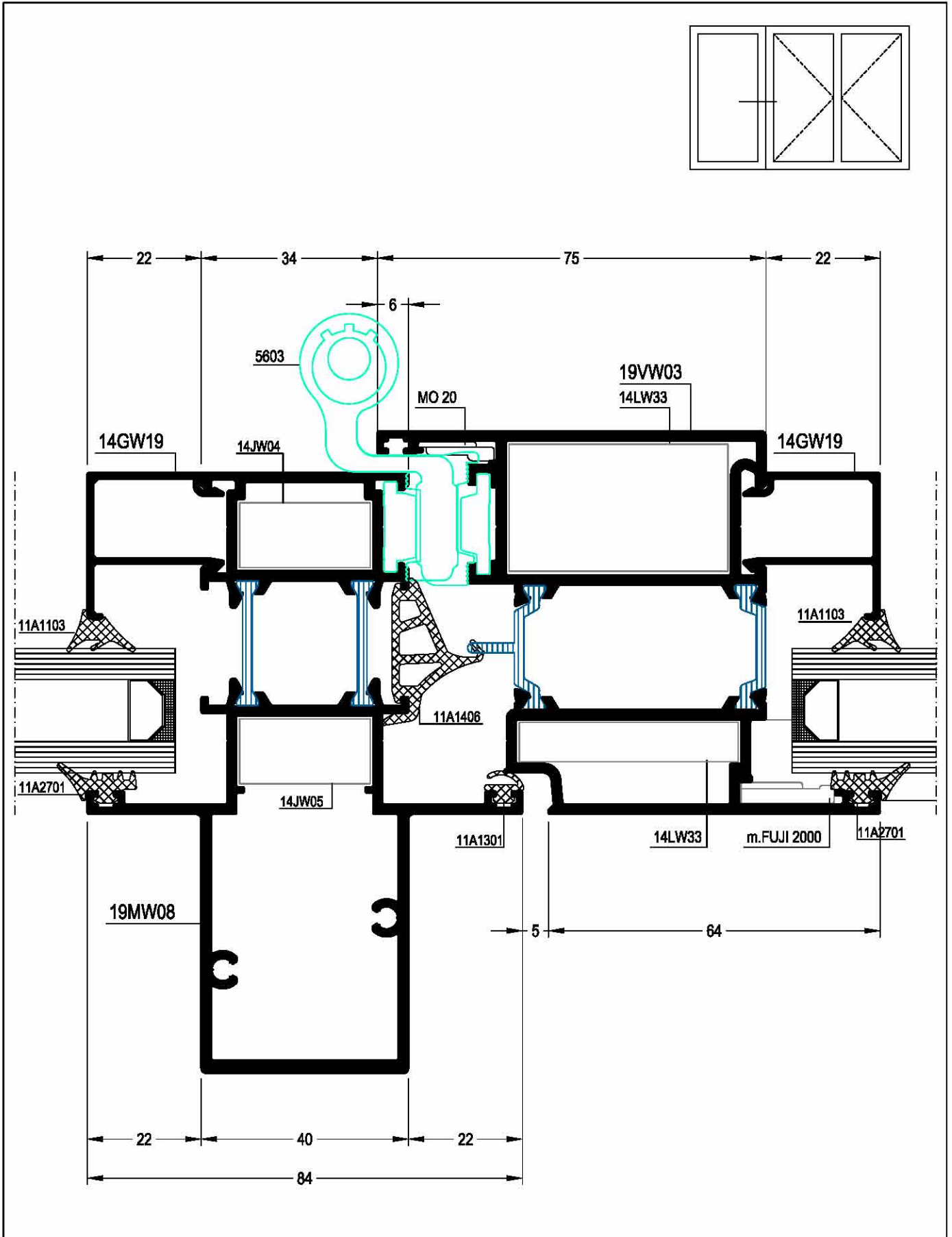
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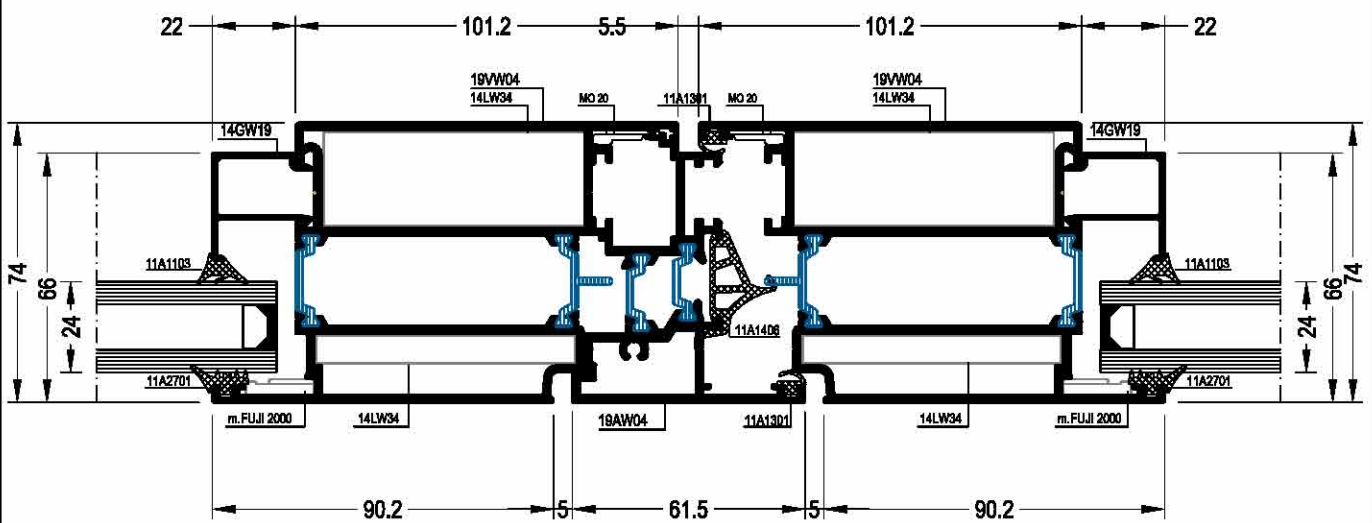
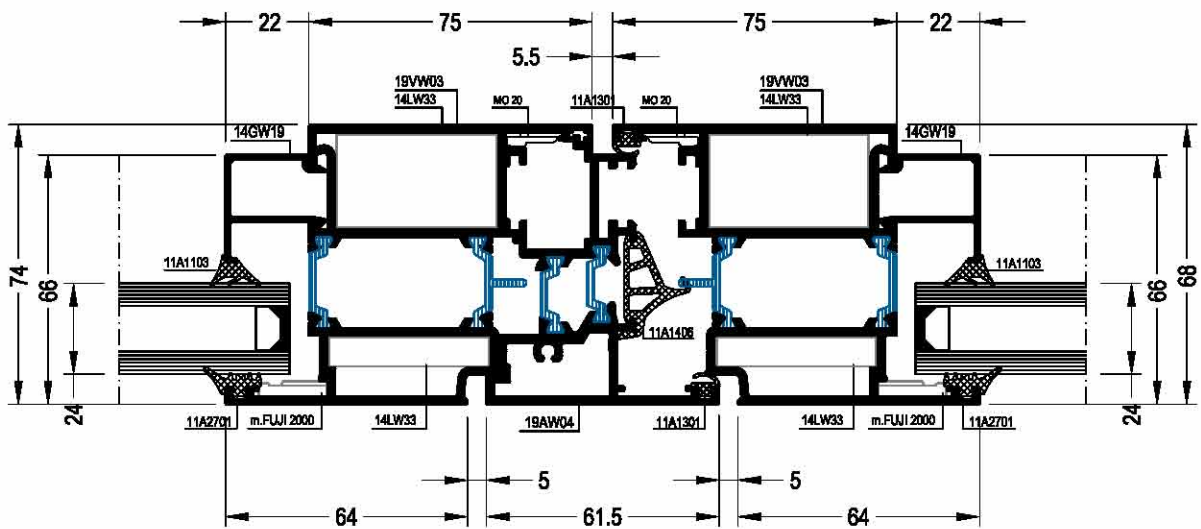
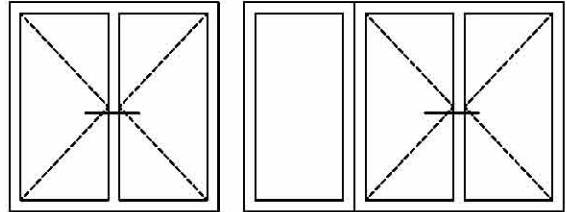
INSIDE OPENING DOOR



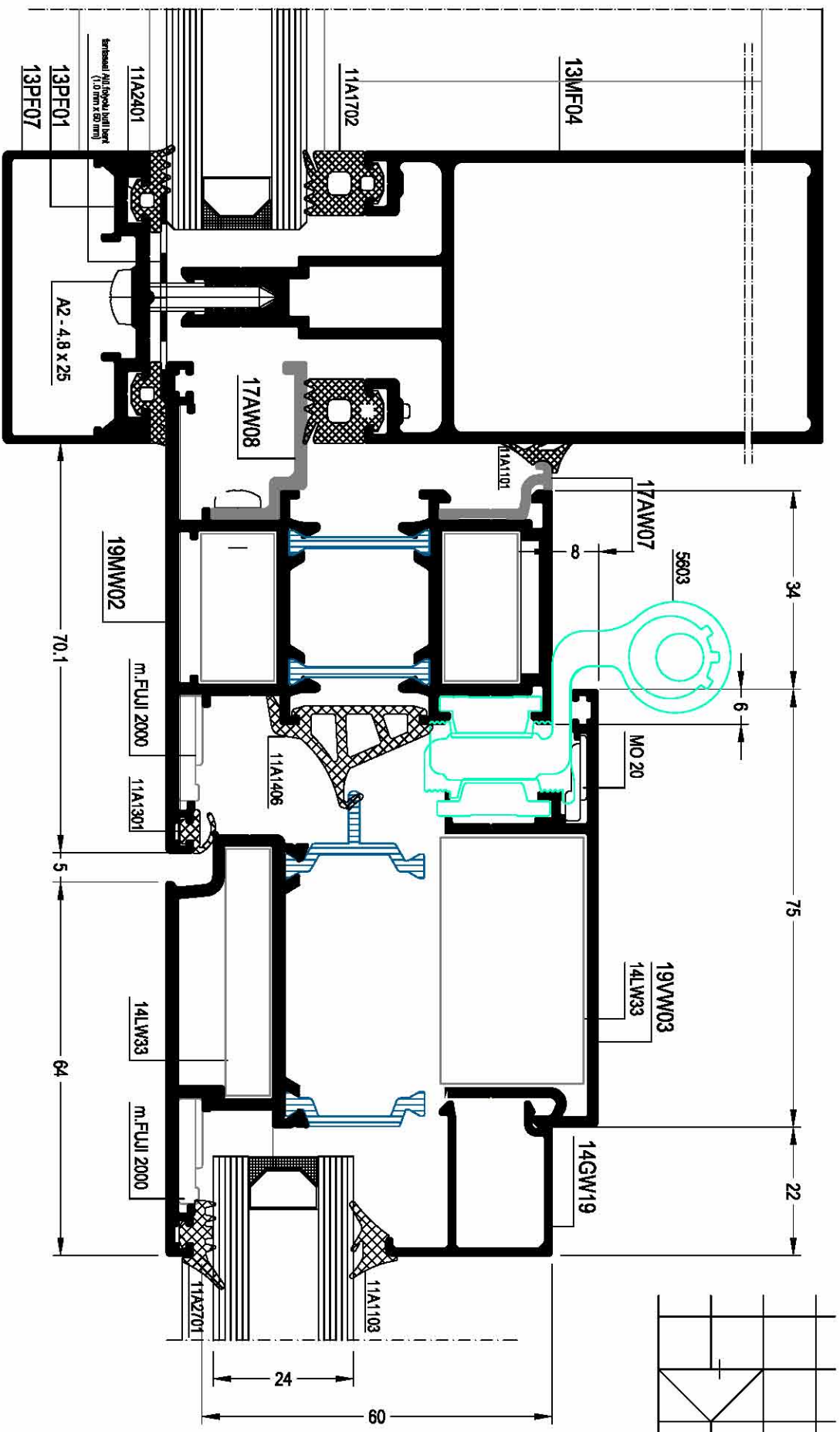
INSIDE OPENING DOOR



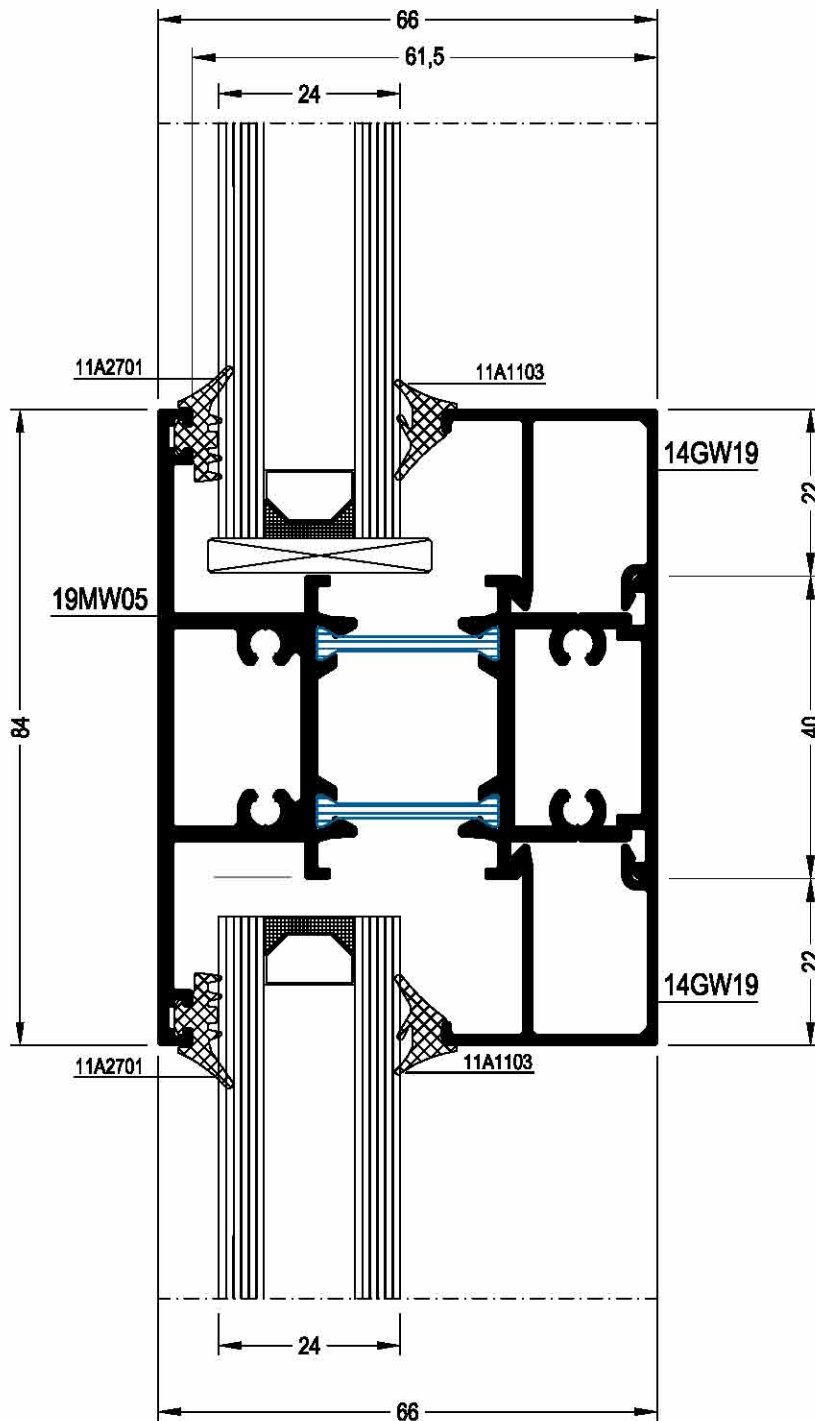
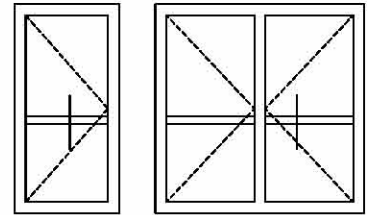
INSIDE OPENING DOOR



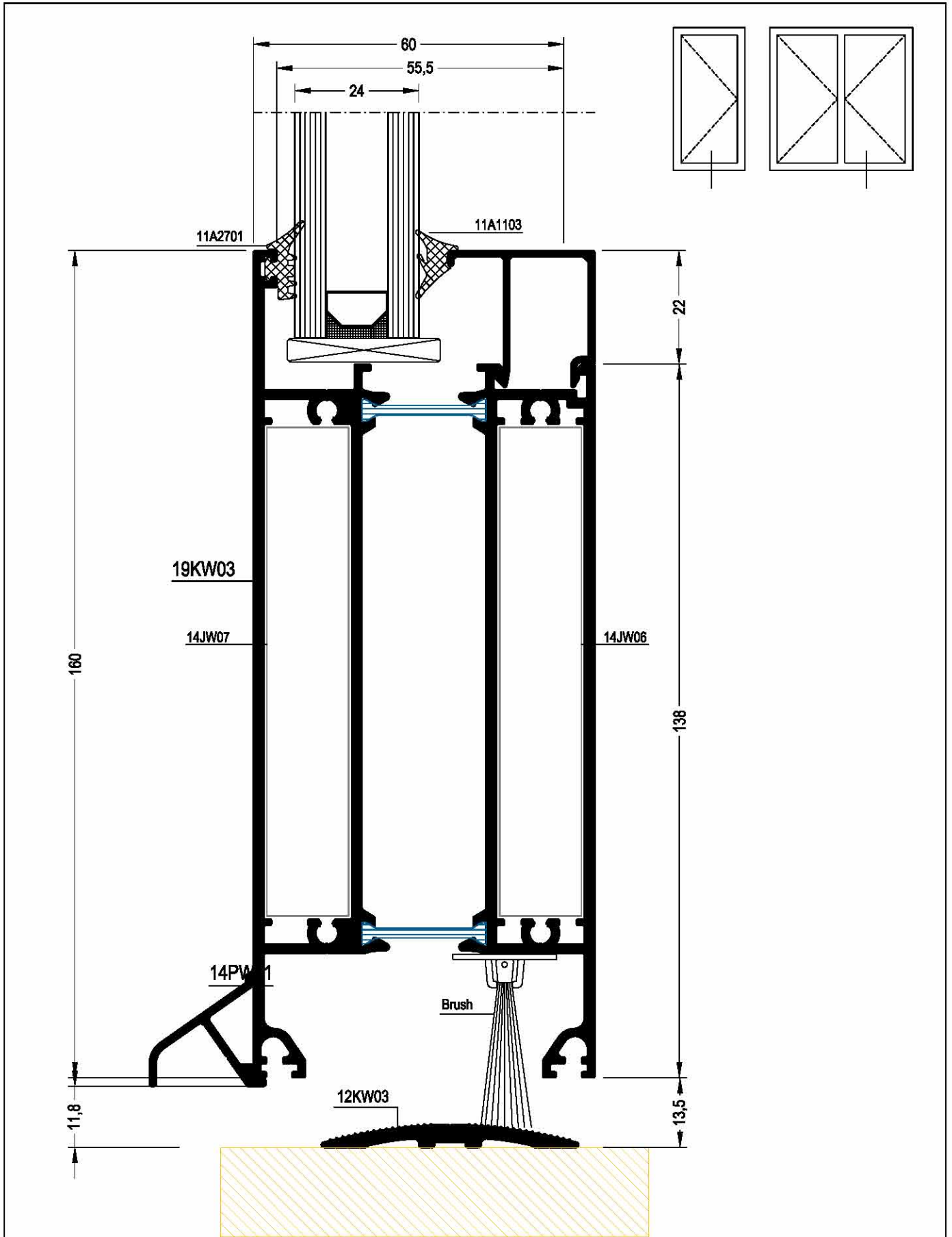
**INSIDE OPENING DOOR**



INSIDE OPENING DOOR

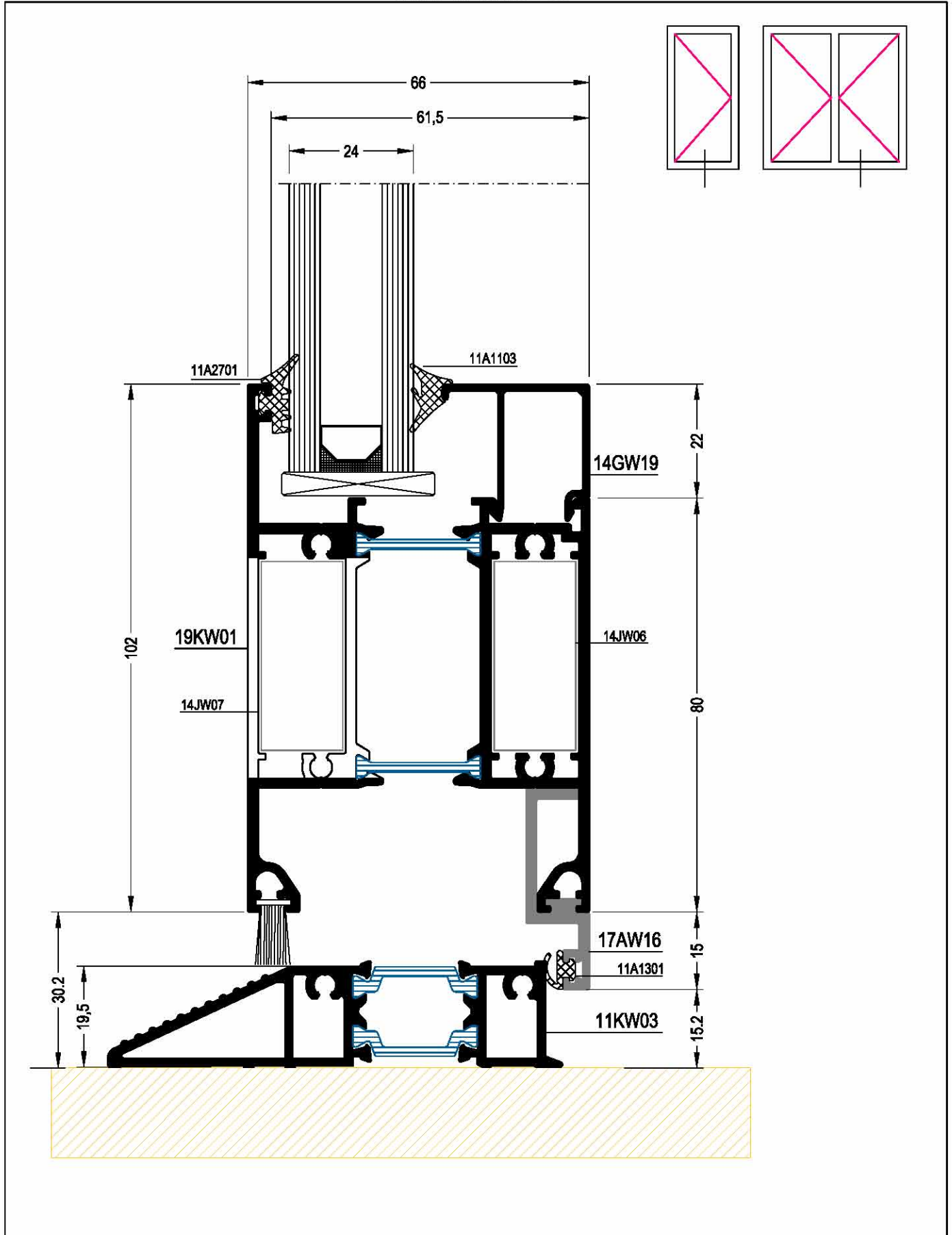


INSIDE OPENING DOOR

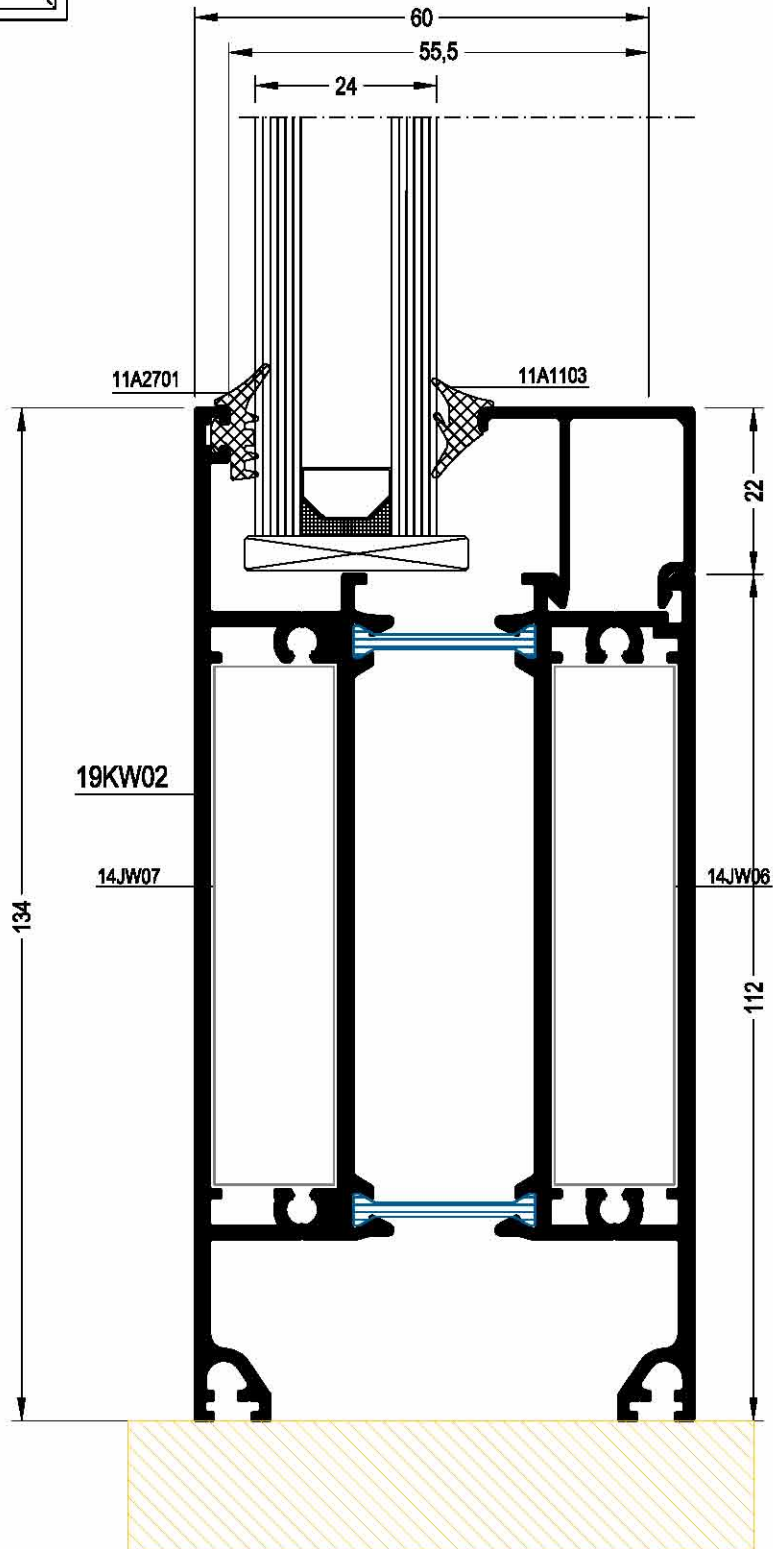
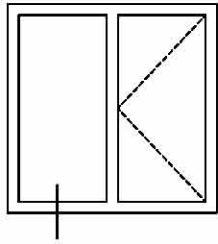




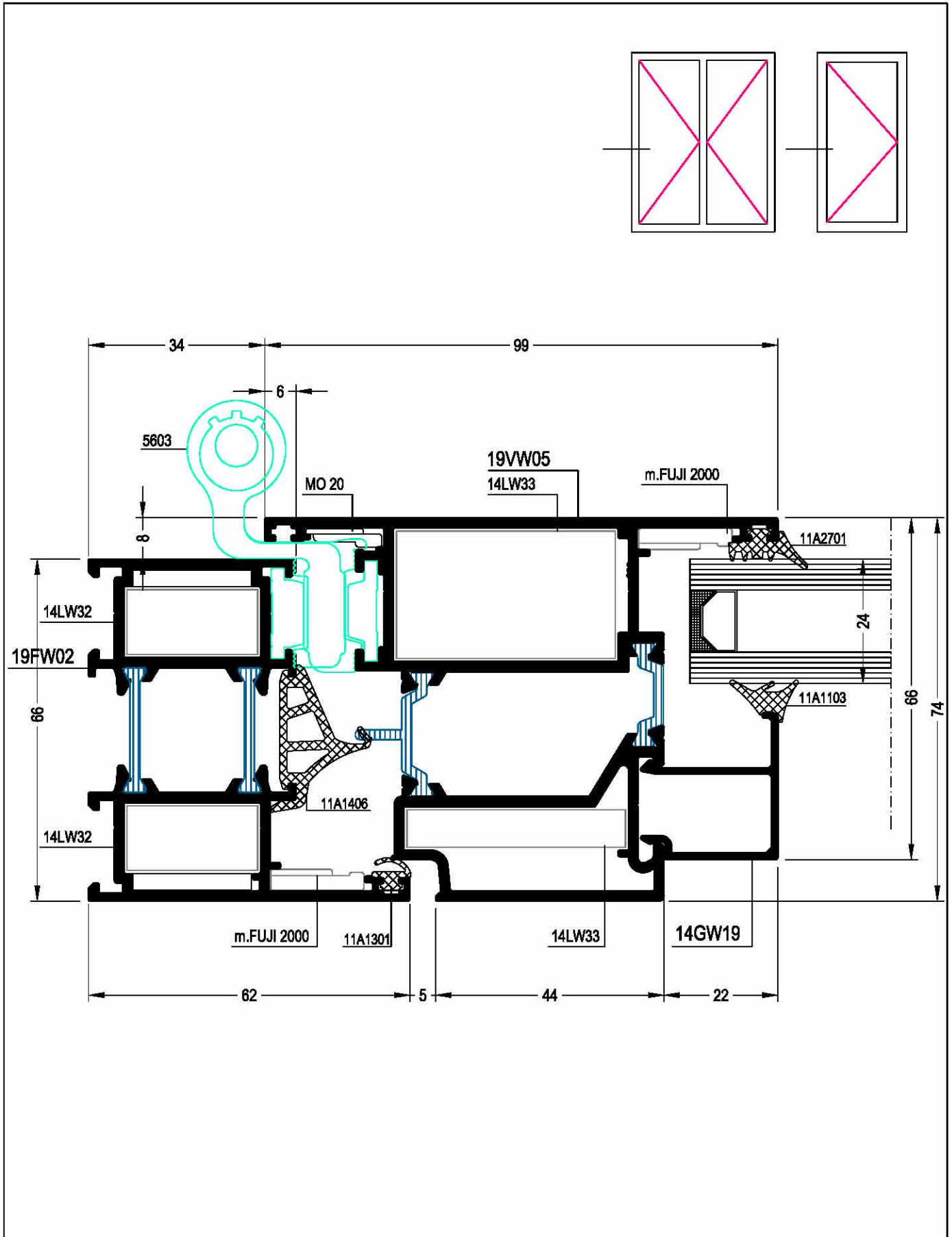
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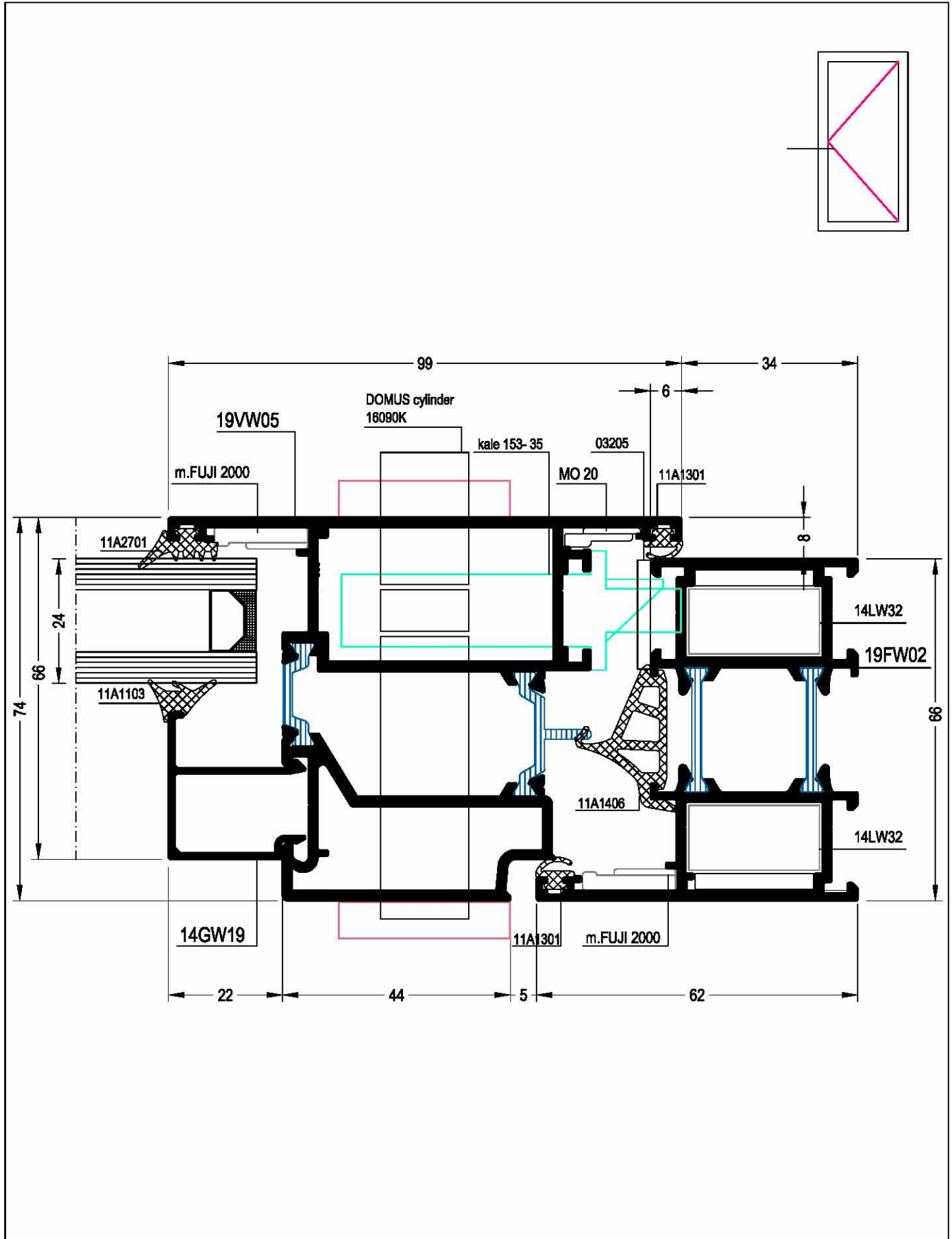
INSIDE OPENING DOOR



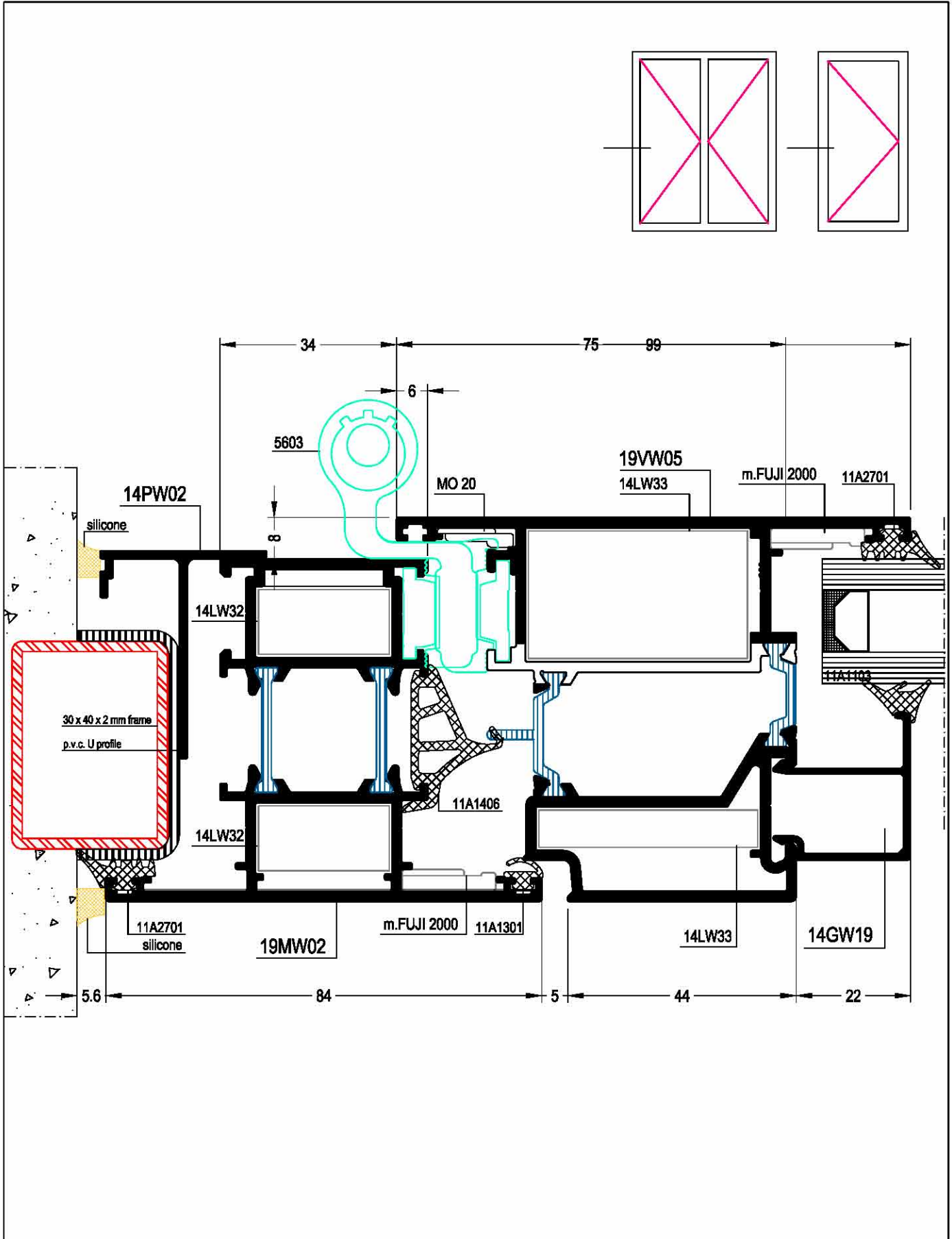
OUTSIDE OPENING DOOR



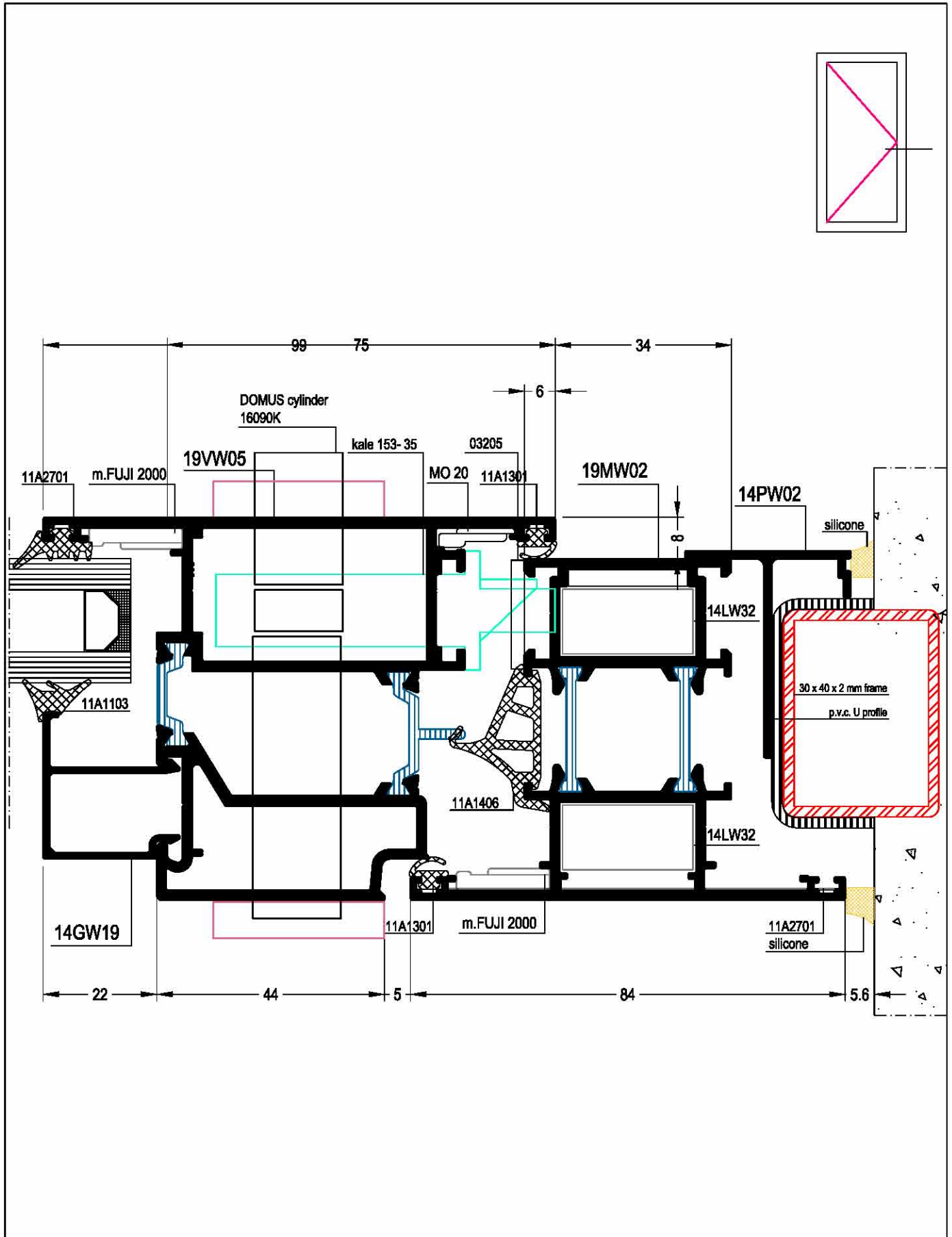
OUTSIDE OPENING DOOR



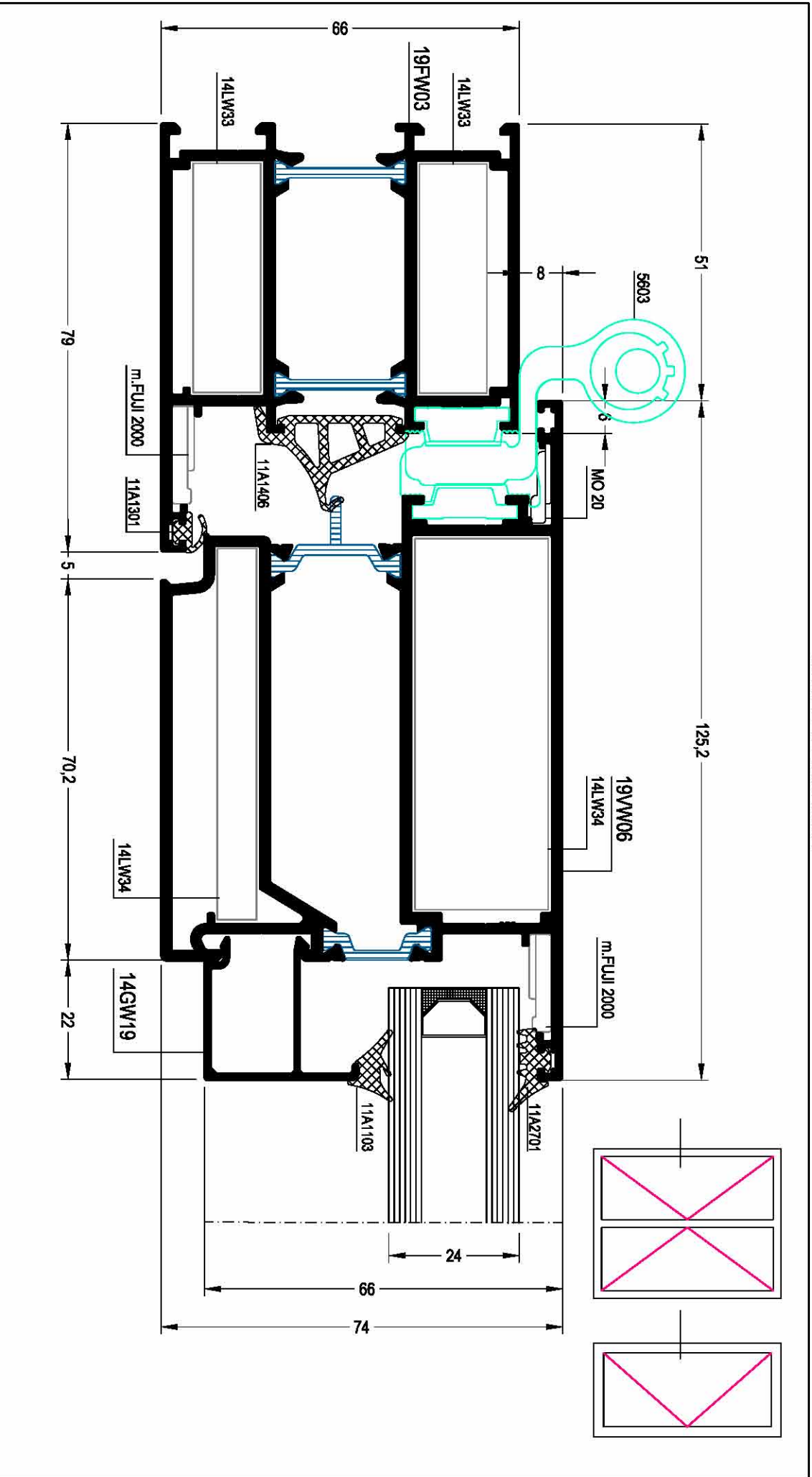
OUTSIDE OPENING DOOR



OUTSIDE OPENING DOOR



OUTSIDE OPENING DOOR

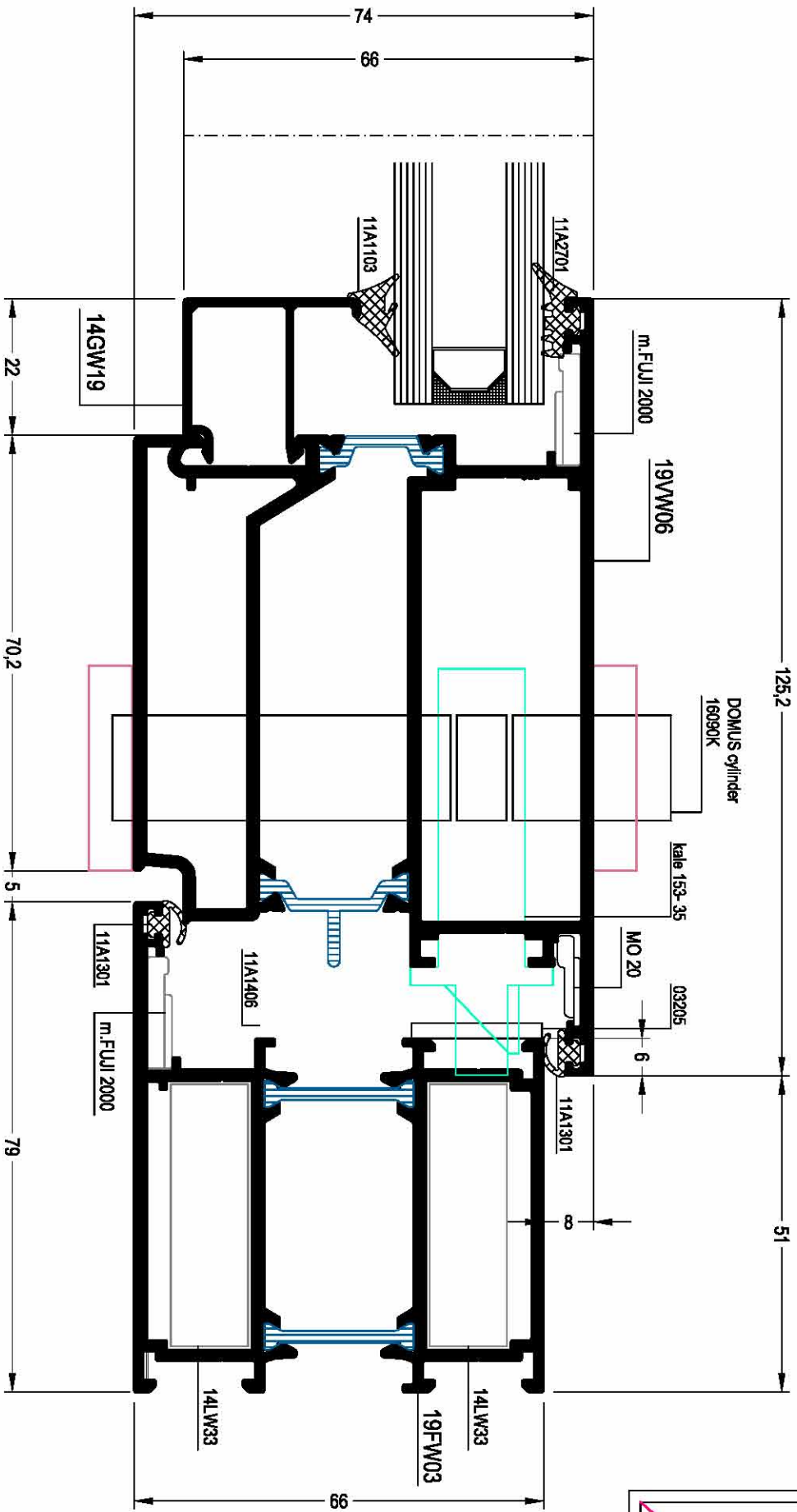




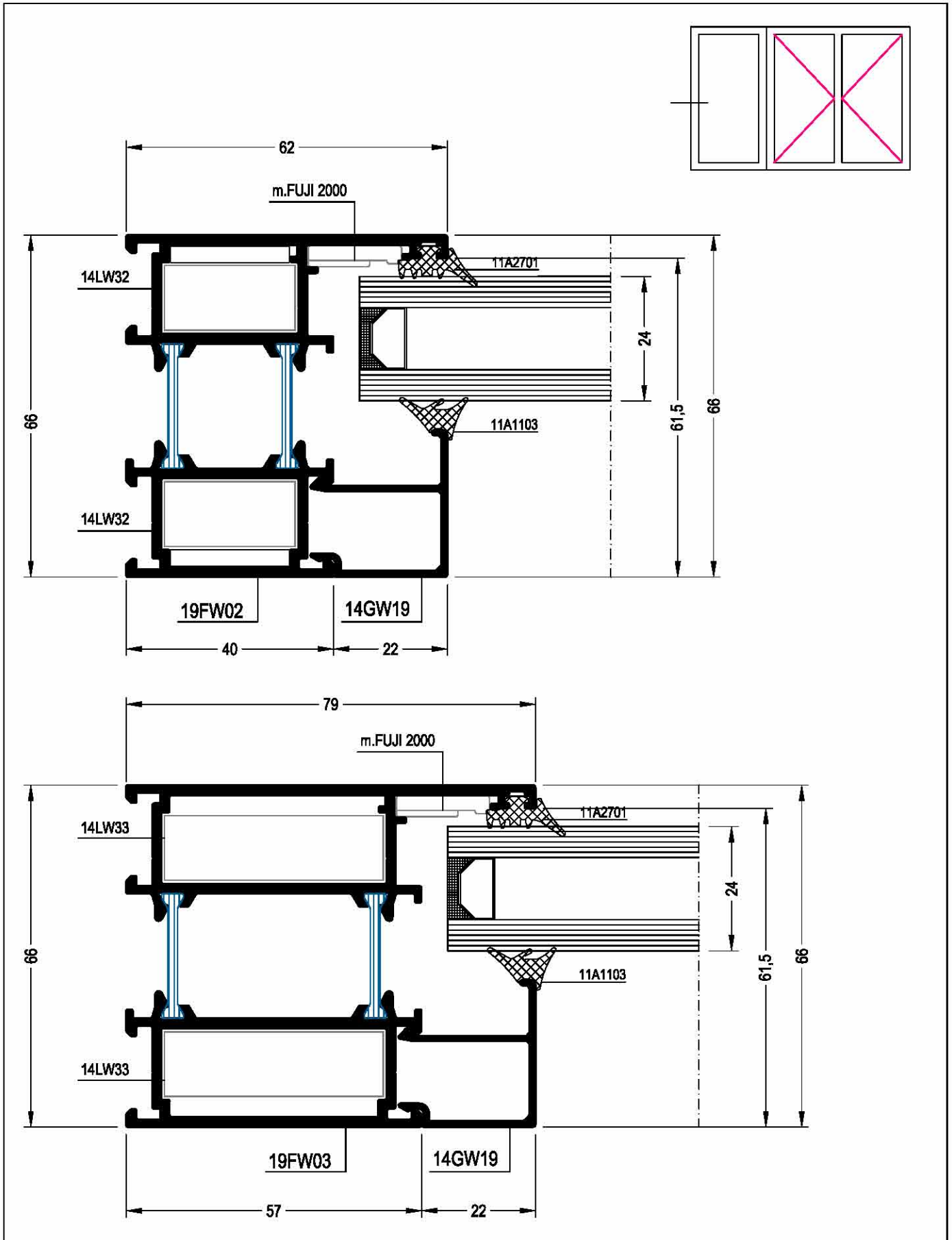
**SYSTEM CASTLE 19'66 W+**

**DETAILS**

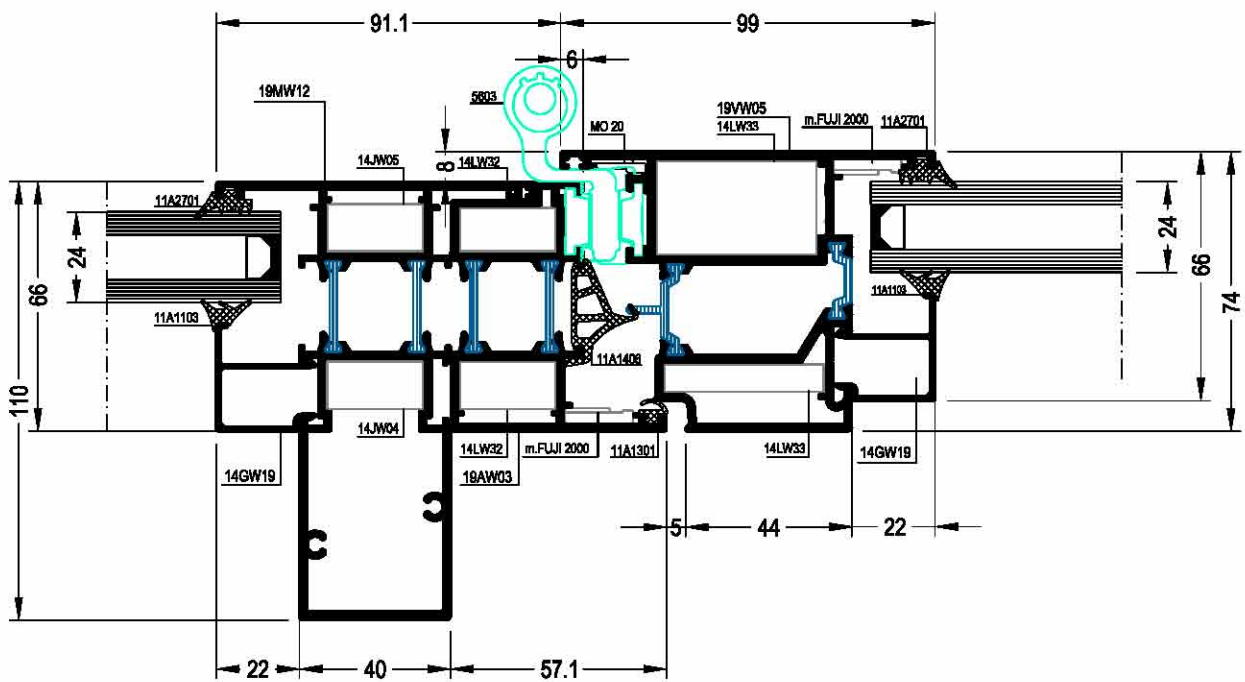
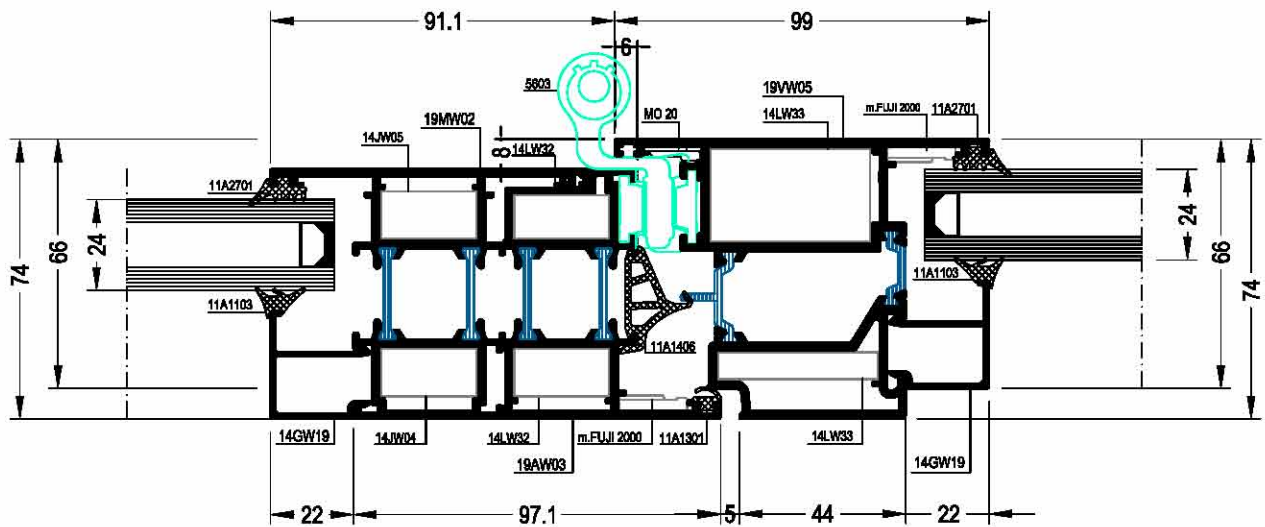
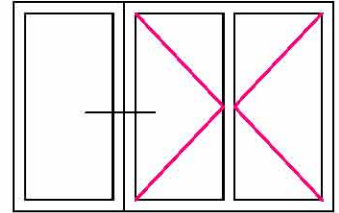
**OUTSIDE OPENING DOOR**



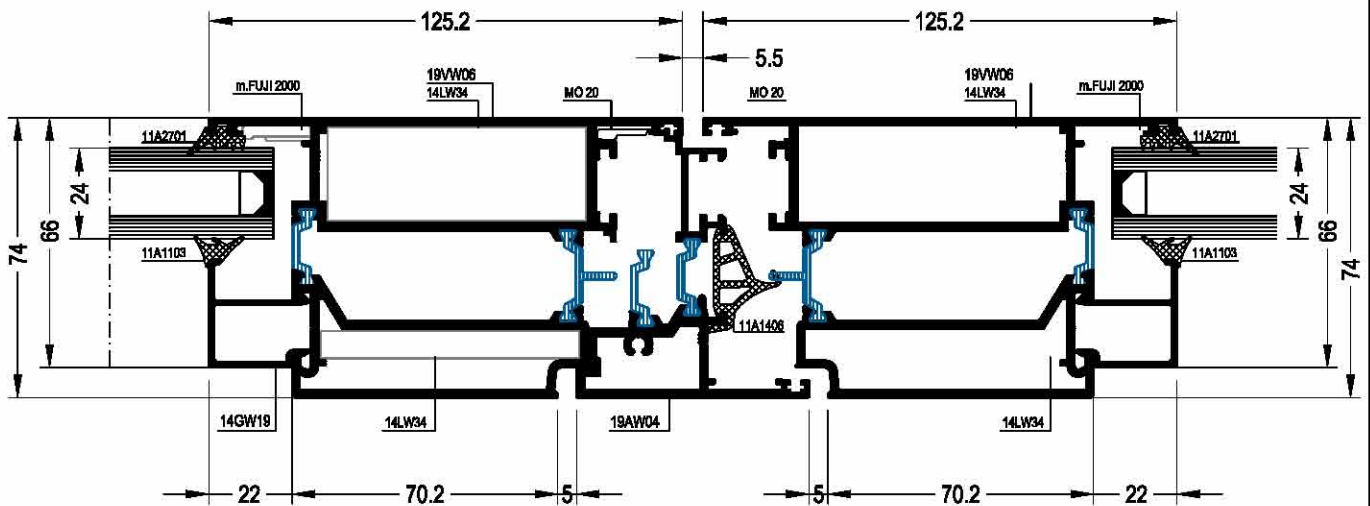
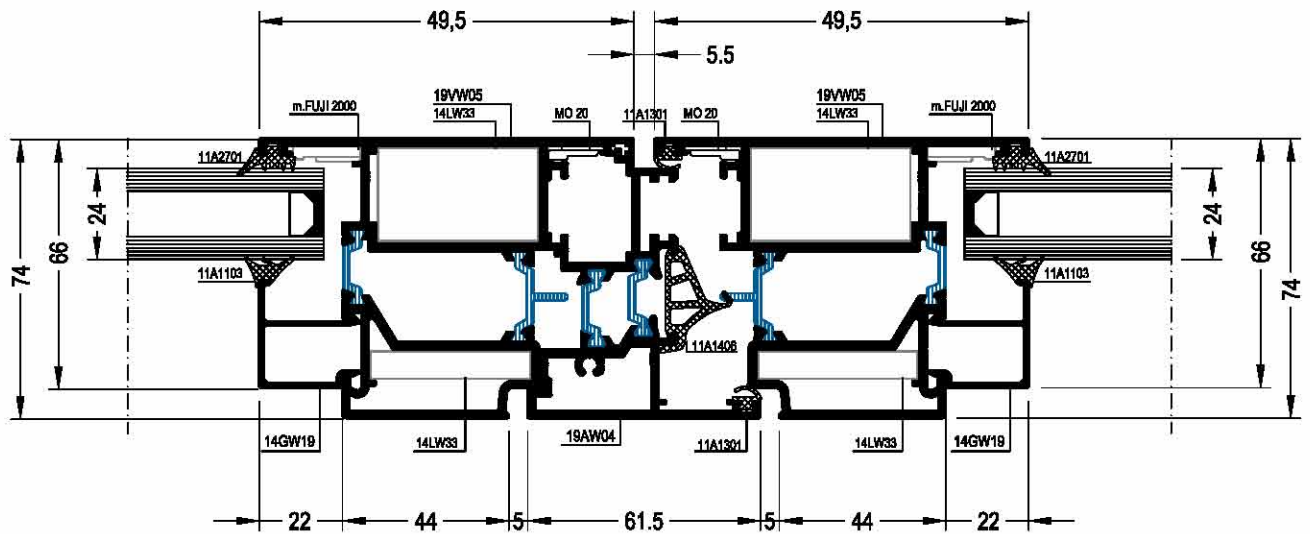
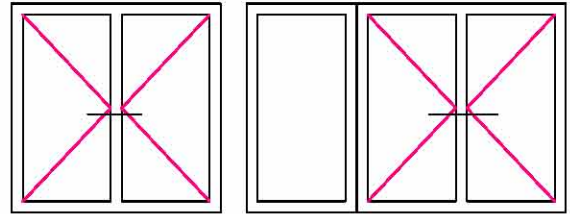
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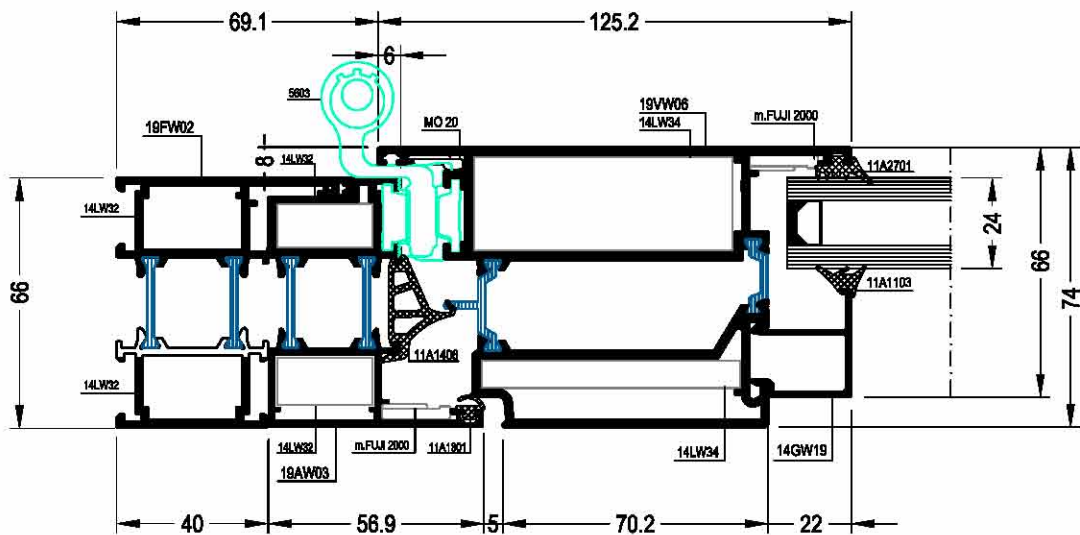
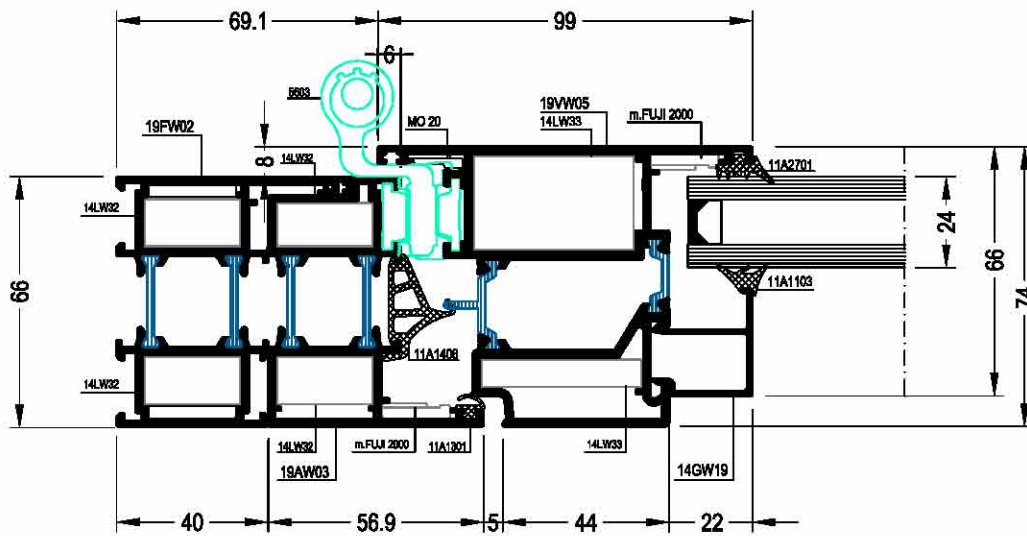
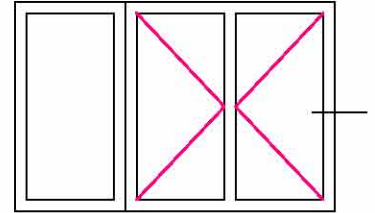
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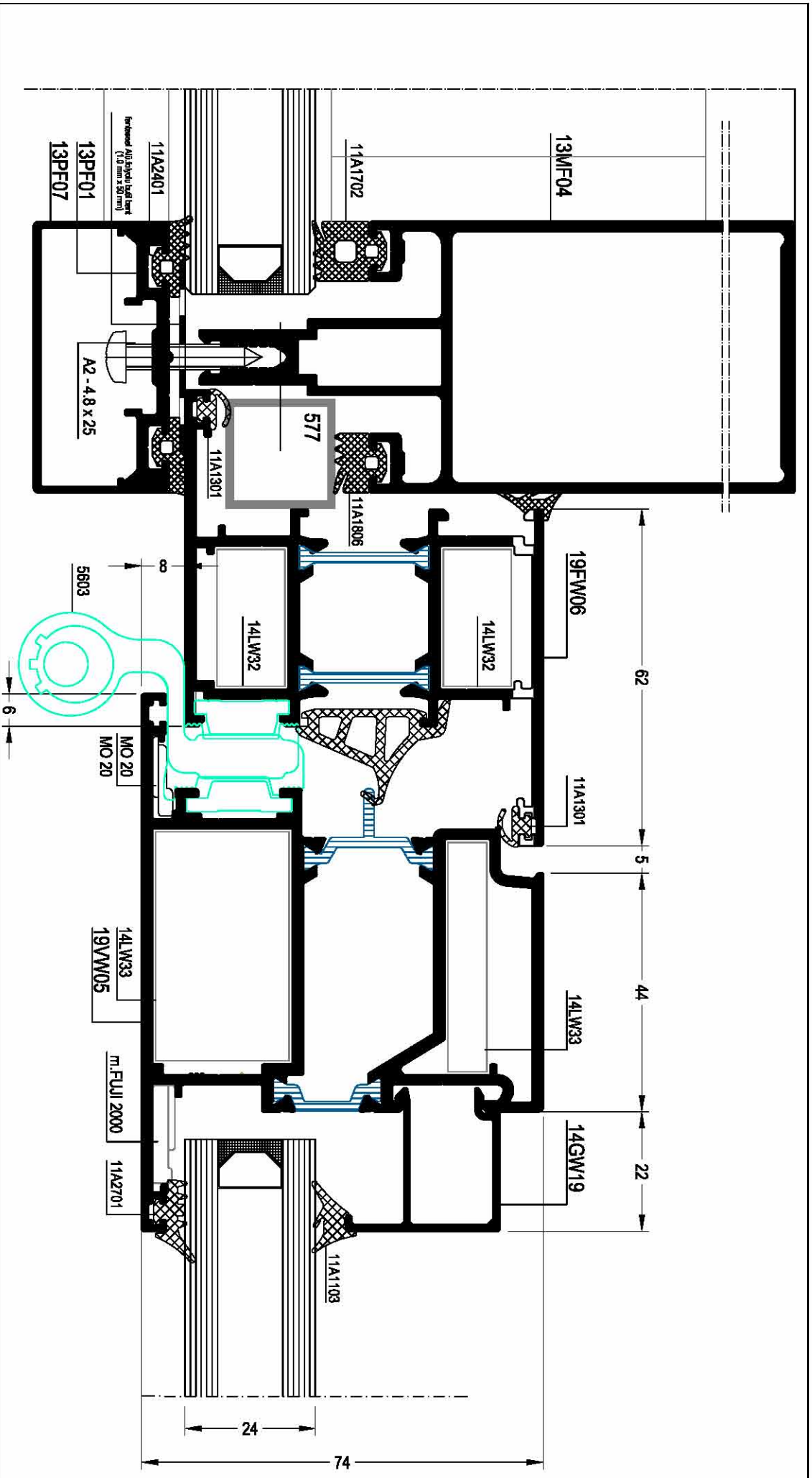
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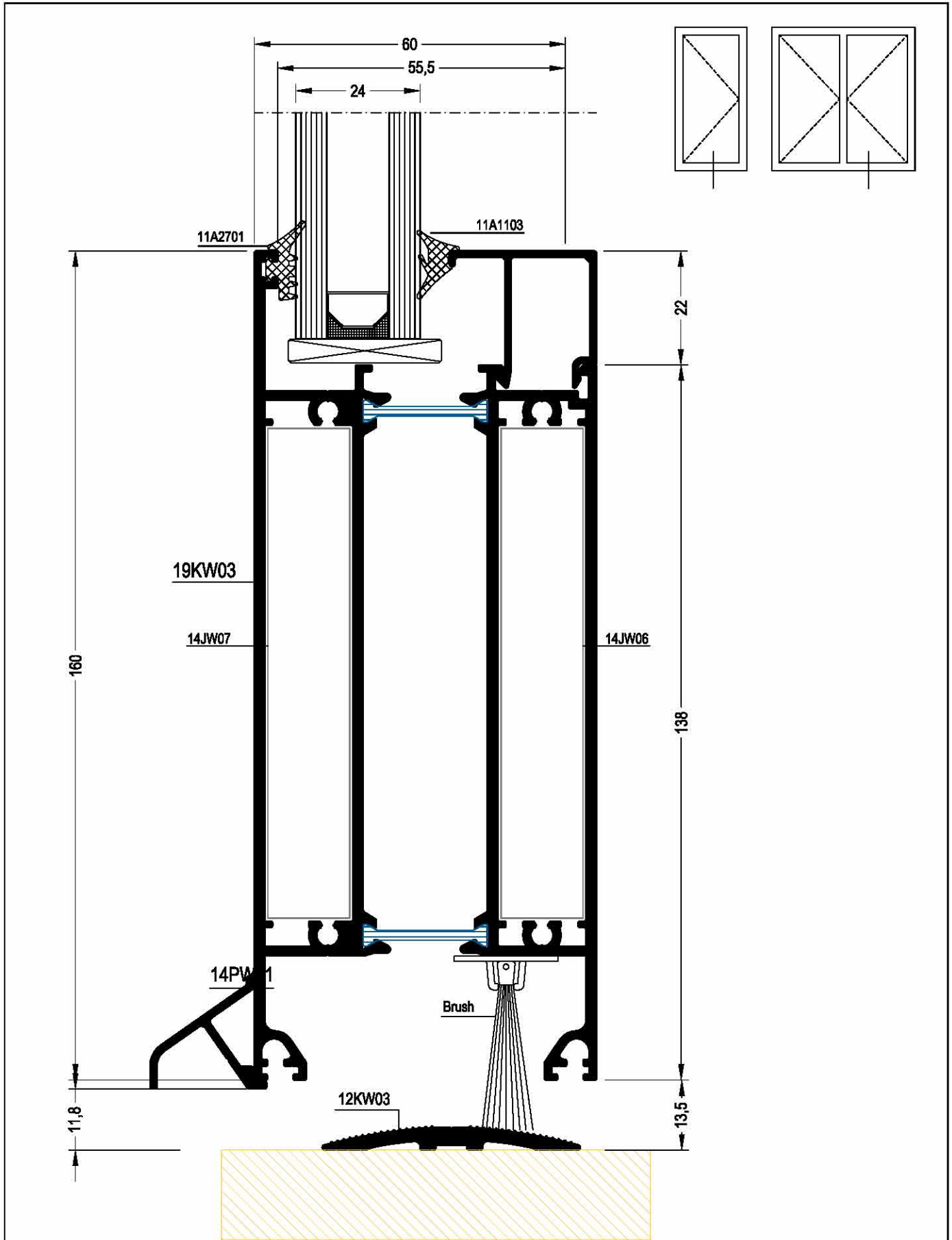
OUTSIDE OPENING DOOR



OUTSIDE OPENING DOOR

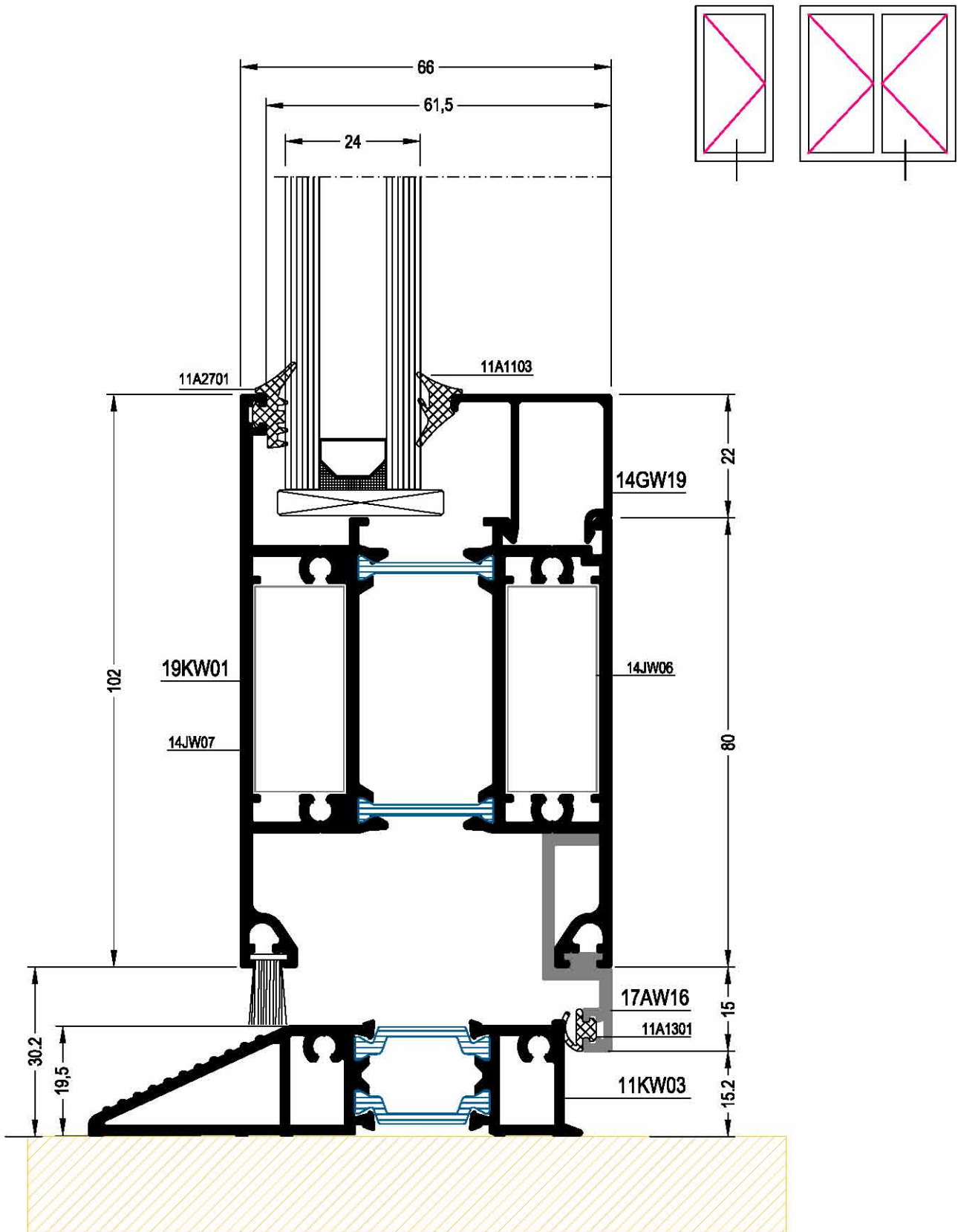


INSIDE OPENING DOOR

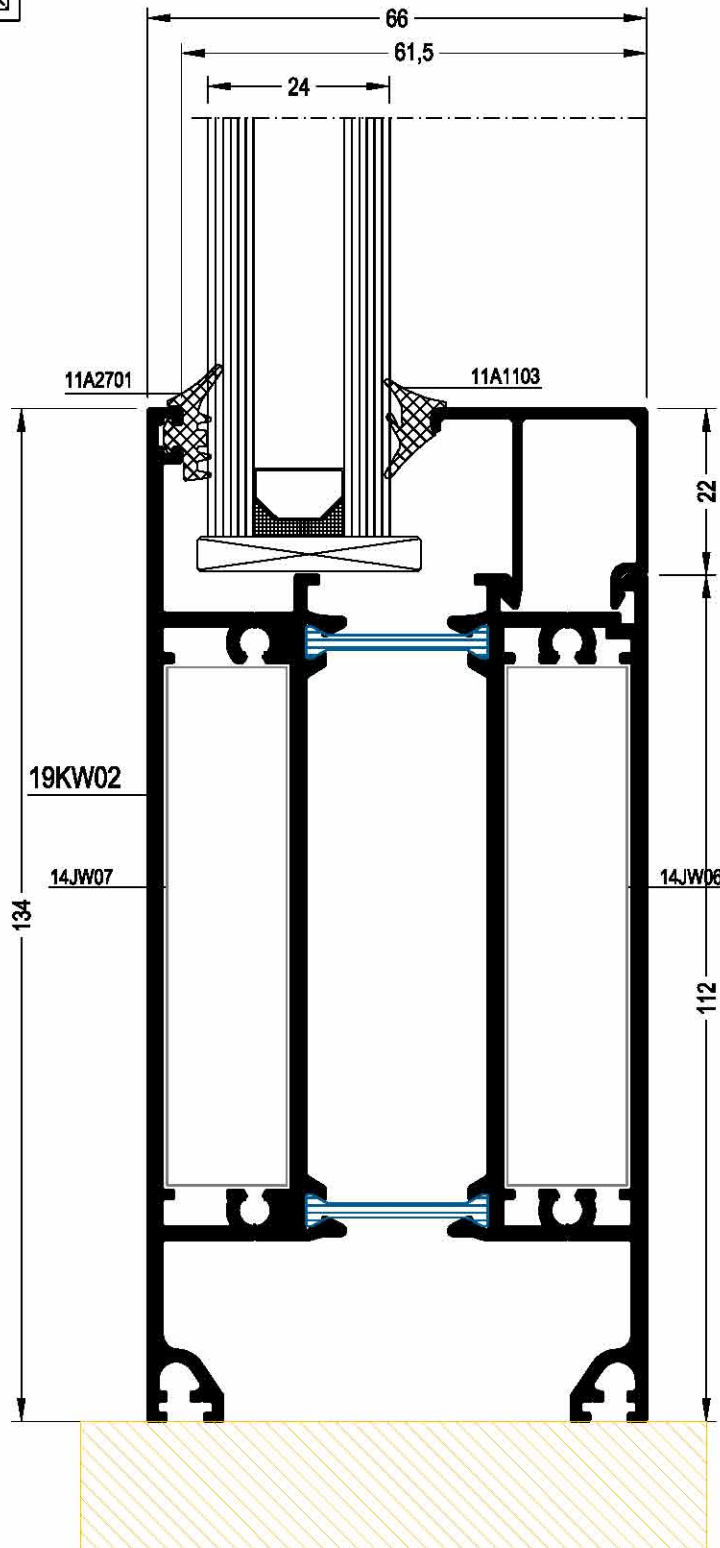
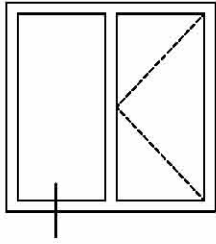




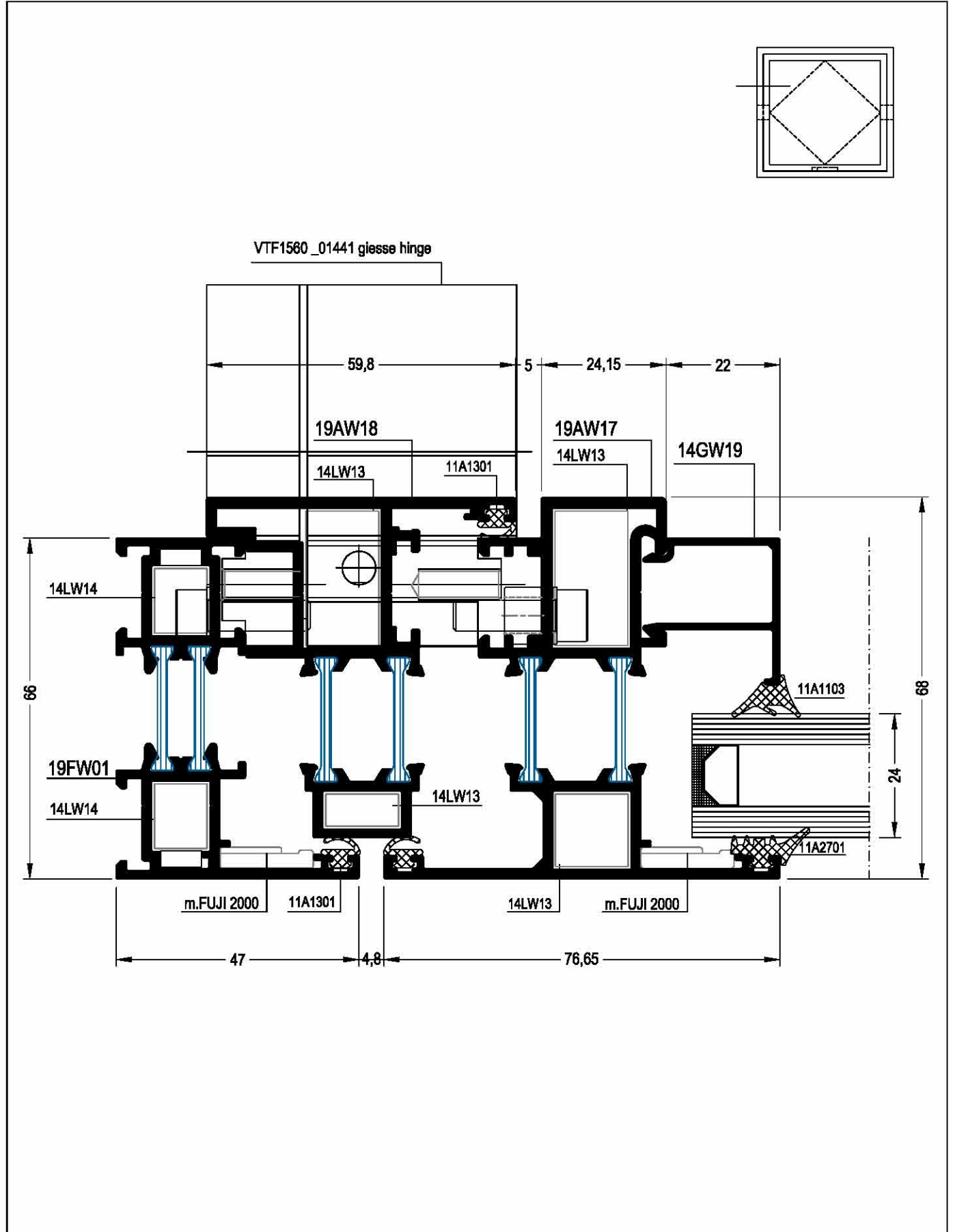
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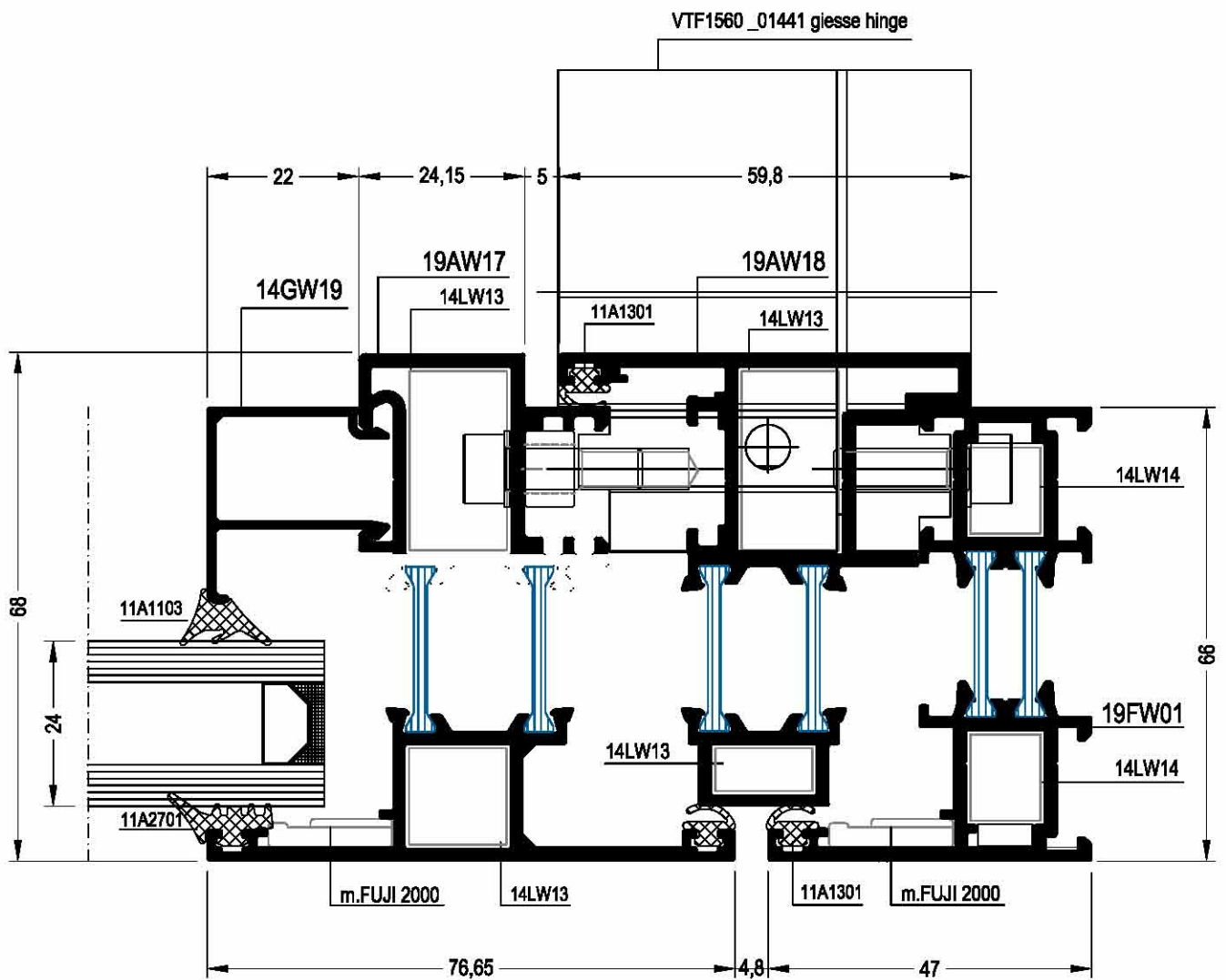
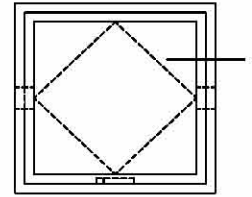
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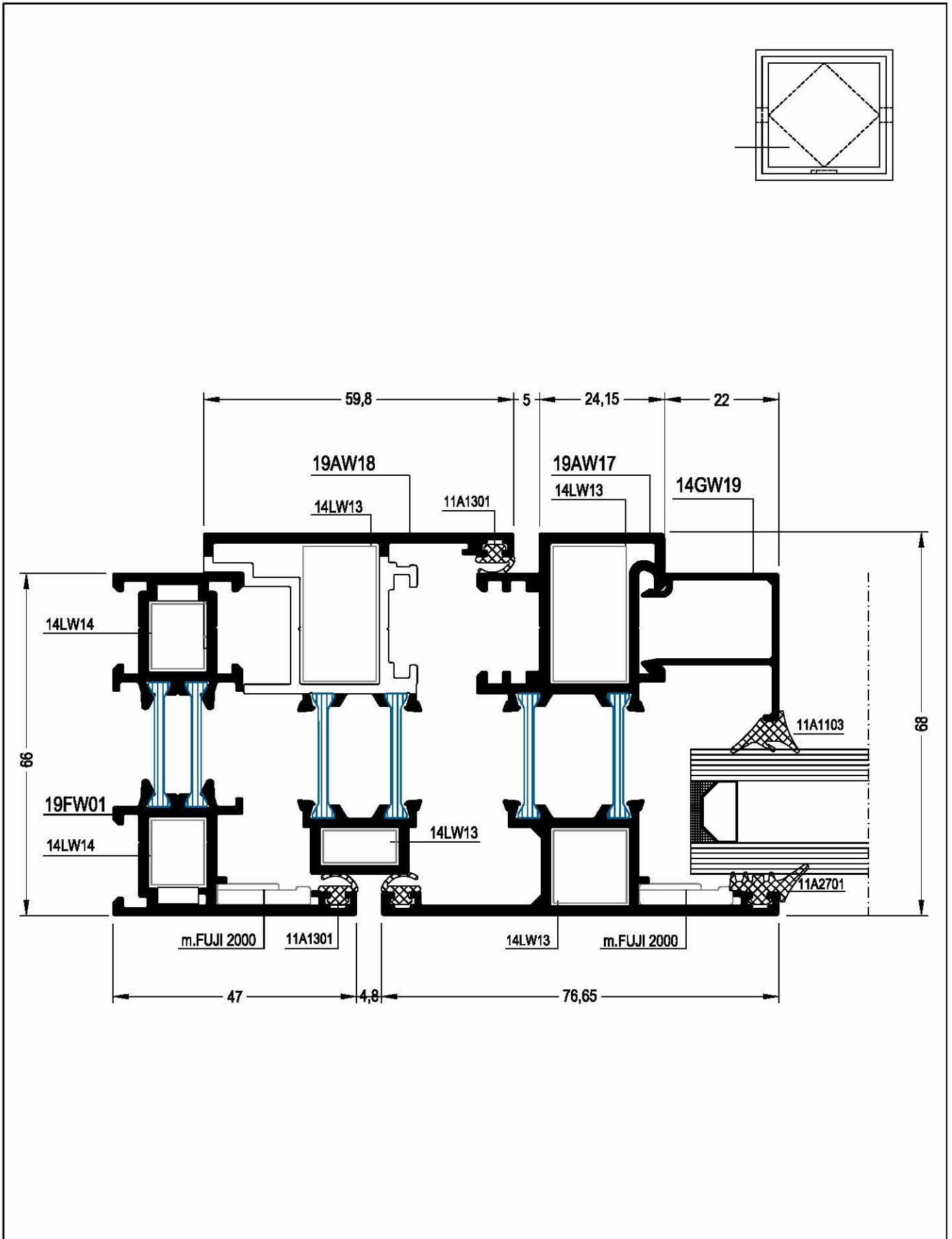
PIVOT WINDOW



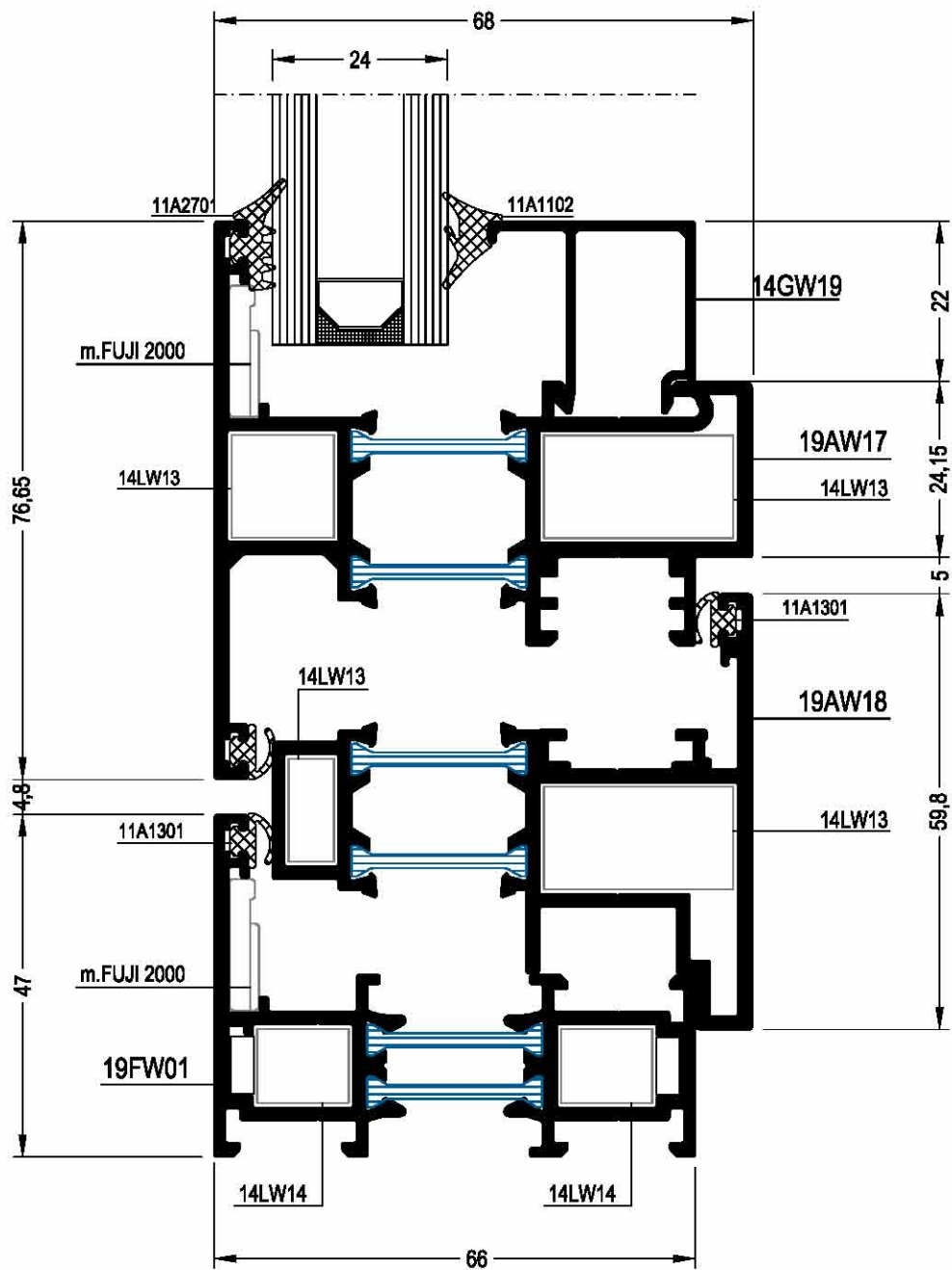
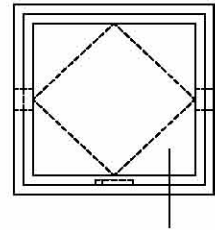
PIVOT WINDOW



PIVOT WINDOW



PIVOT WINDOW



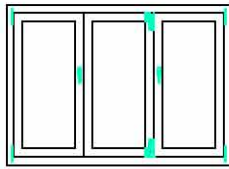




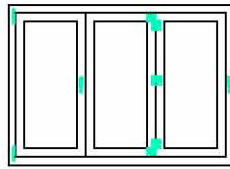
FOLDING DOOR

vw : Vent Width

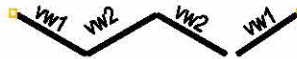
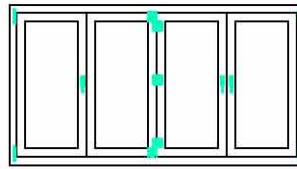
TYPE 321



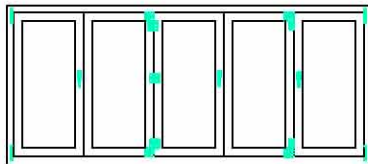
TYPE 330



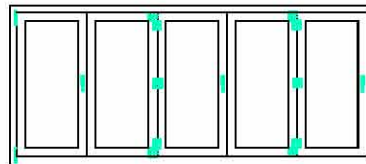
TYPE 431



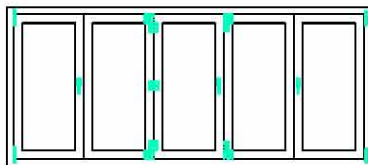
TYPE 541



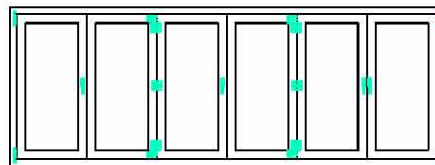
TYPE 550



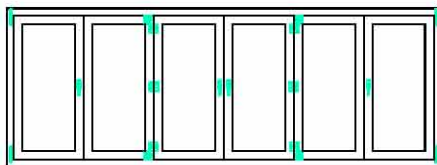
TYPE 532



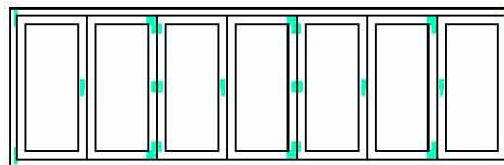
TYPE 651



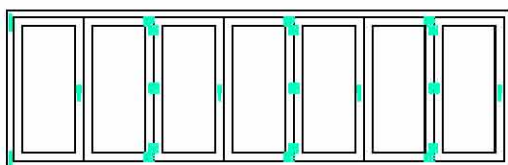
TYPE 633



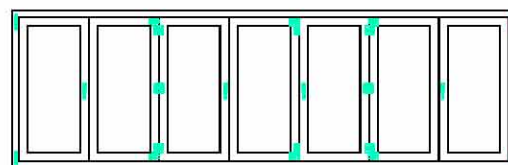
TYPE 761



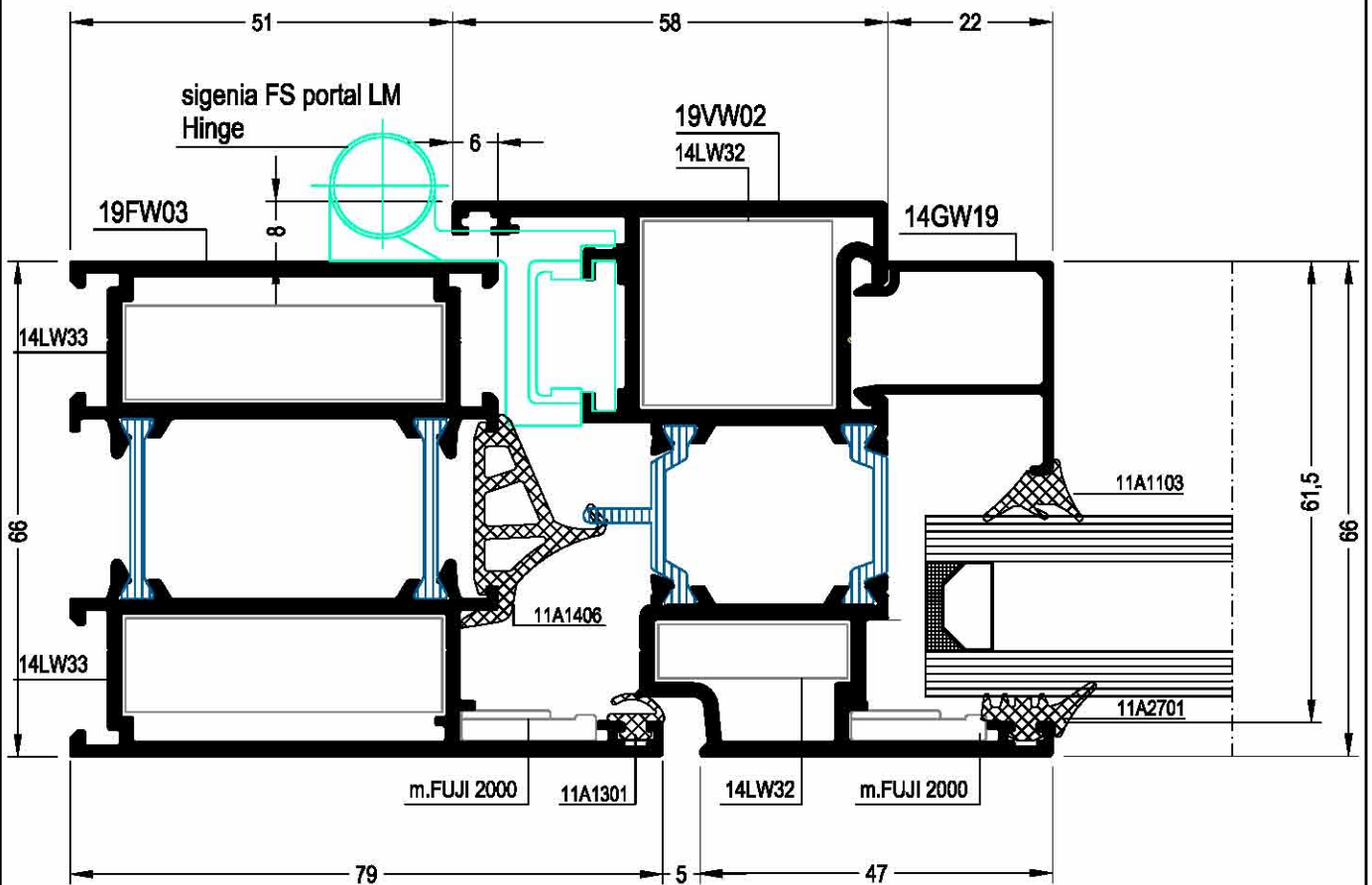
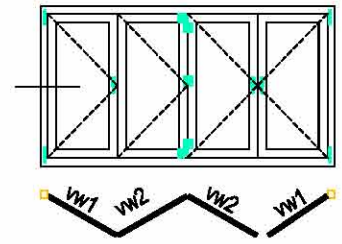
TYPE 770



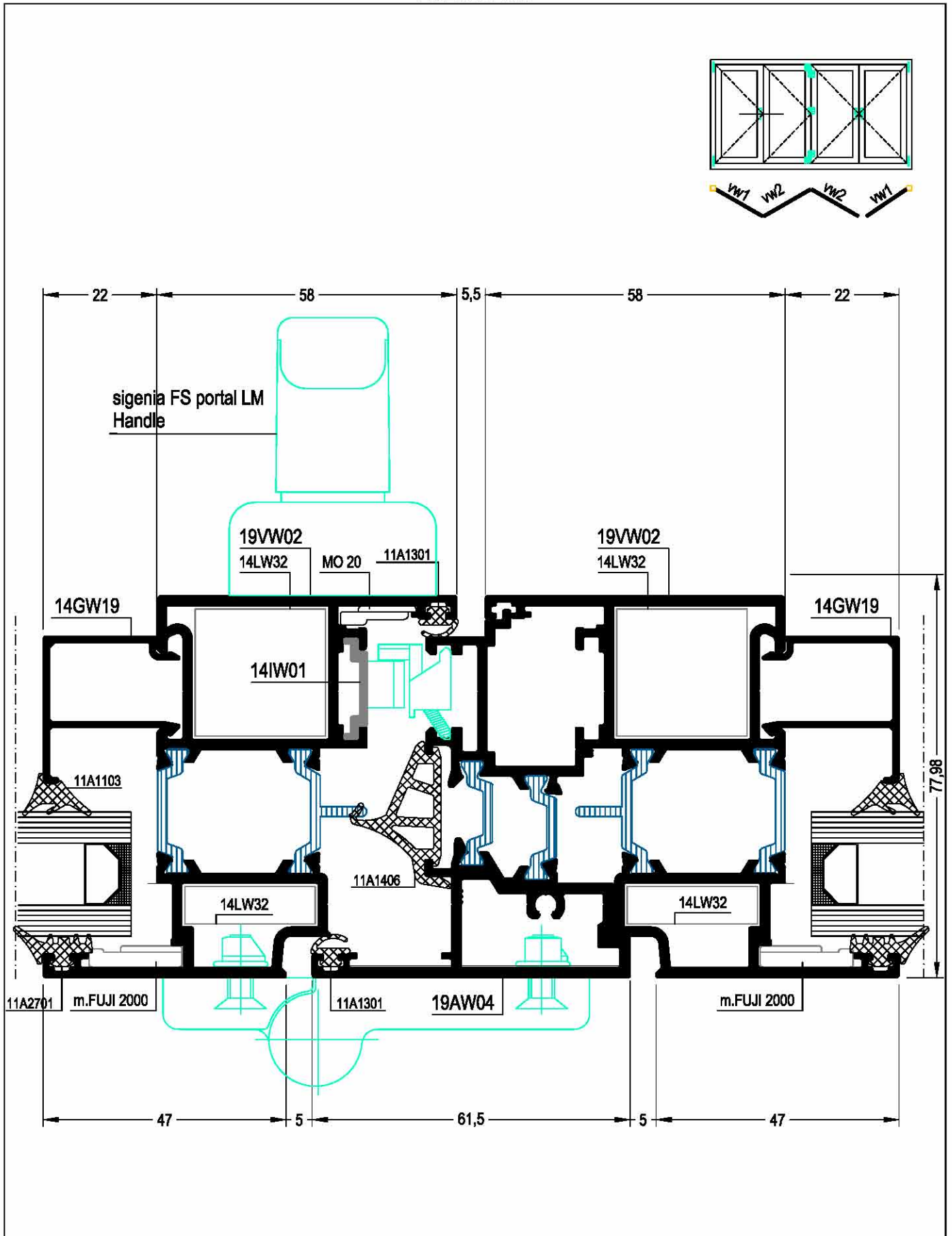
TYPE 743



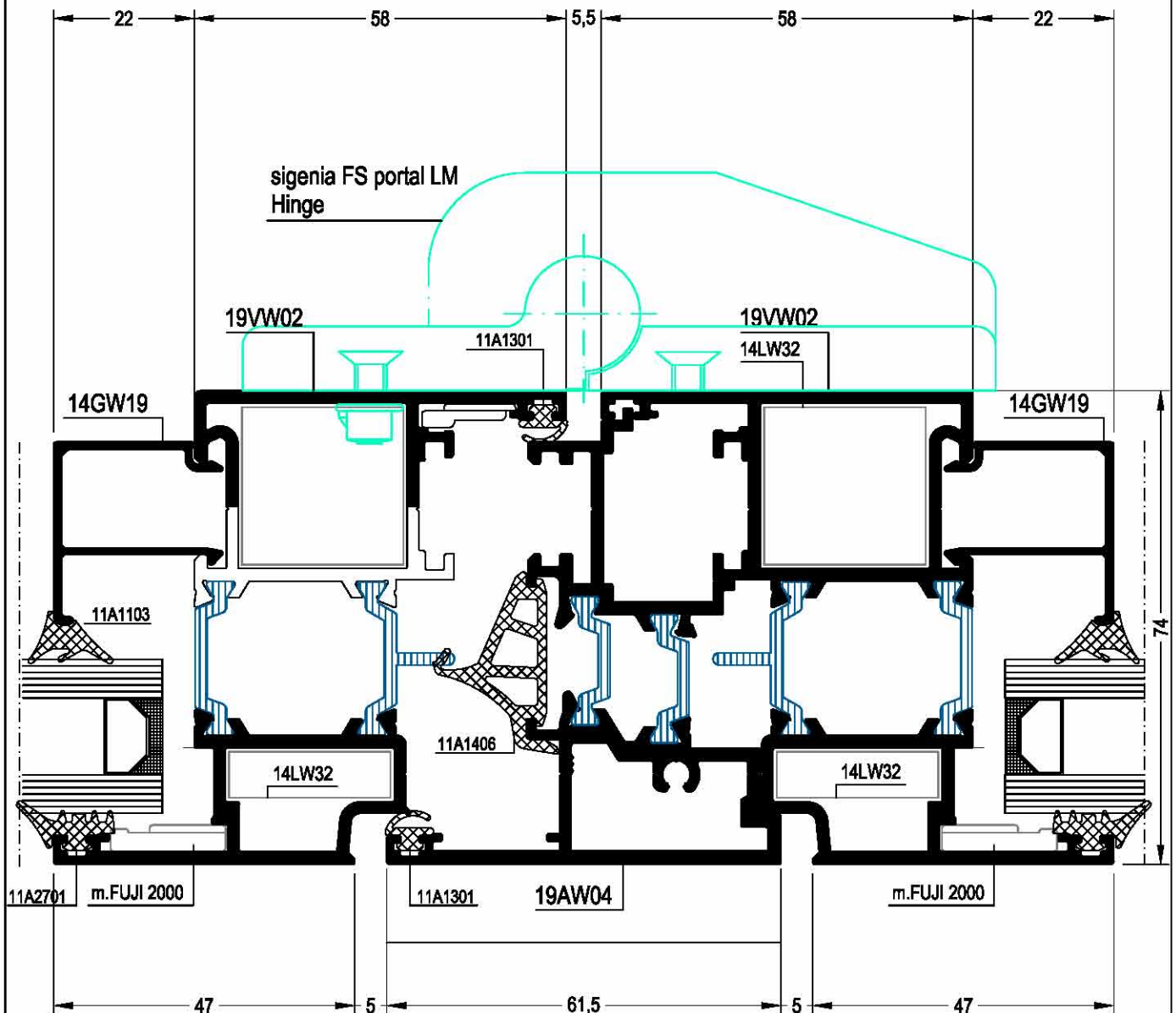
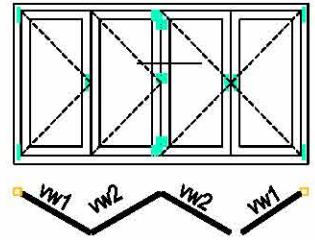
FOLDING DOOR



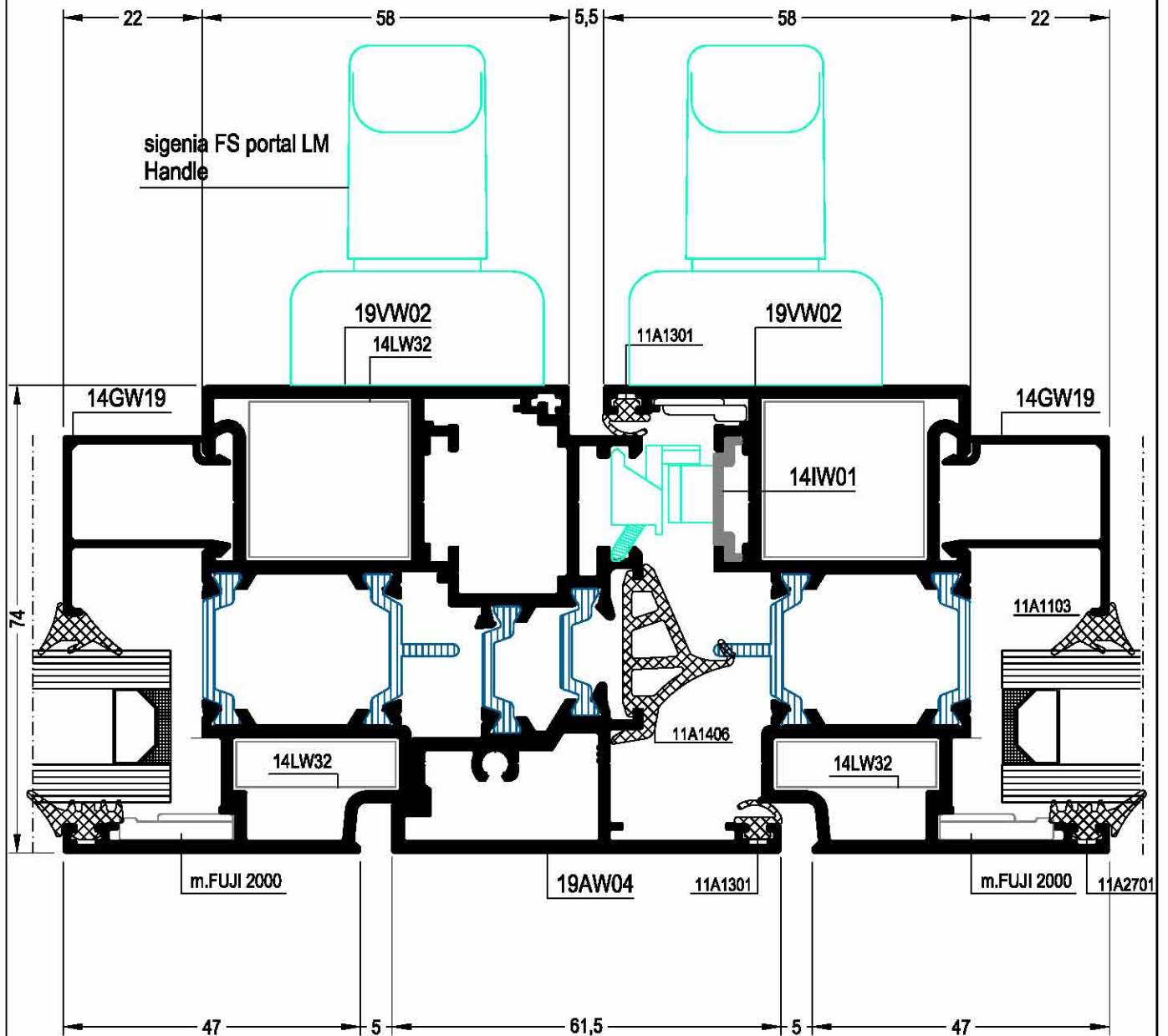
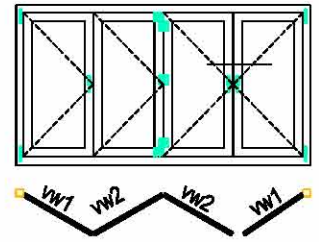
FOLDING DOOR



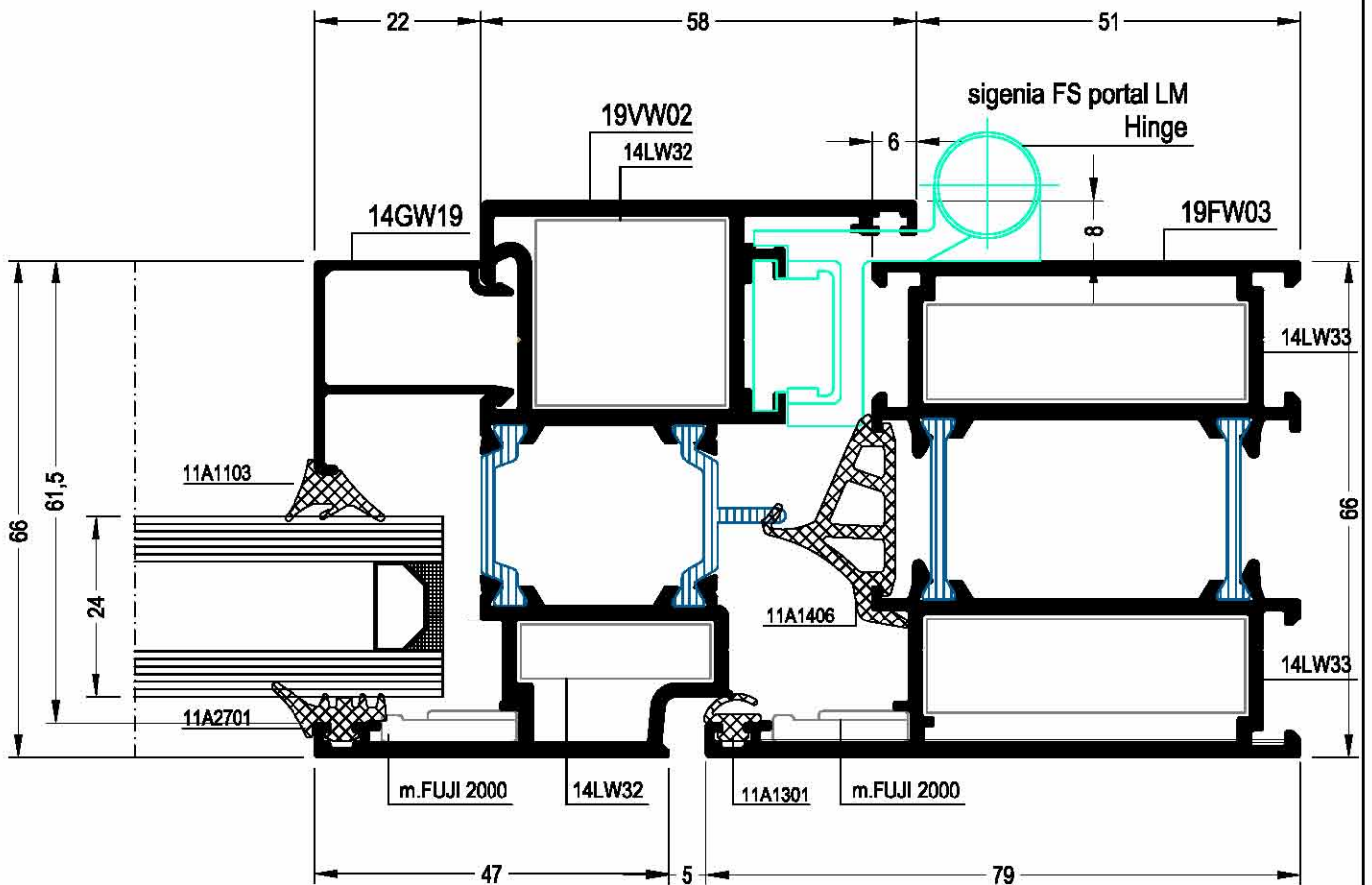
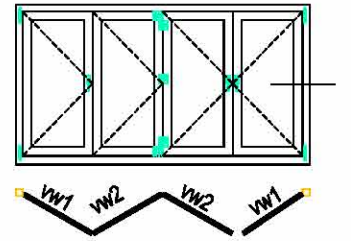
FOLDING DOOR



FOLDING DOOR

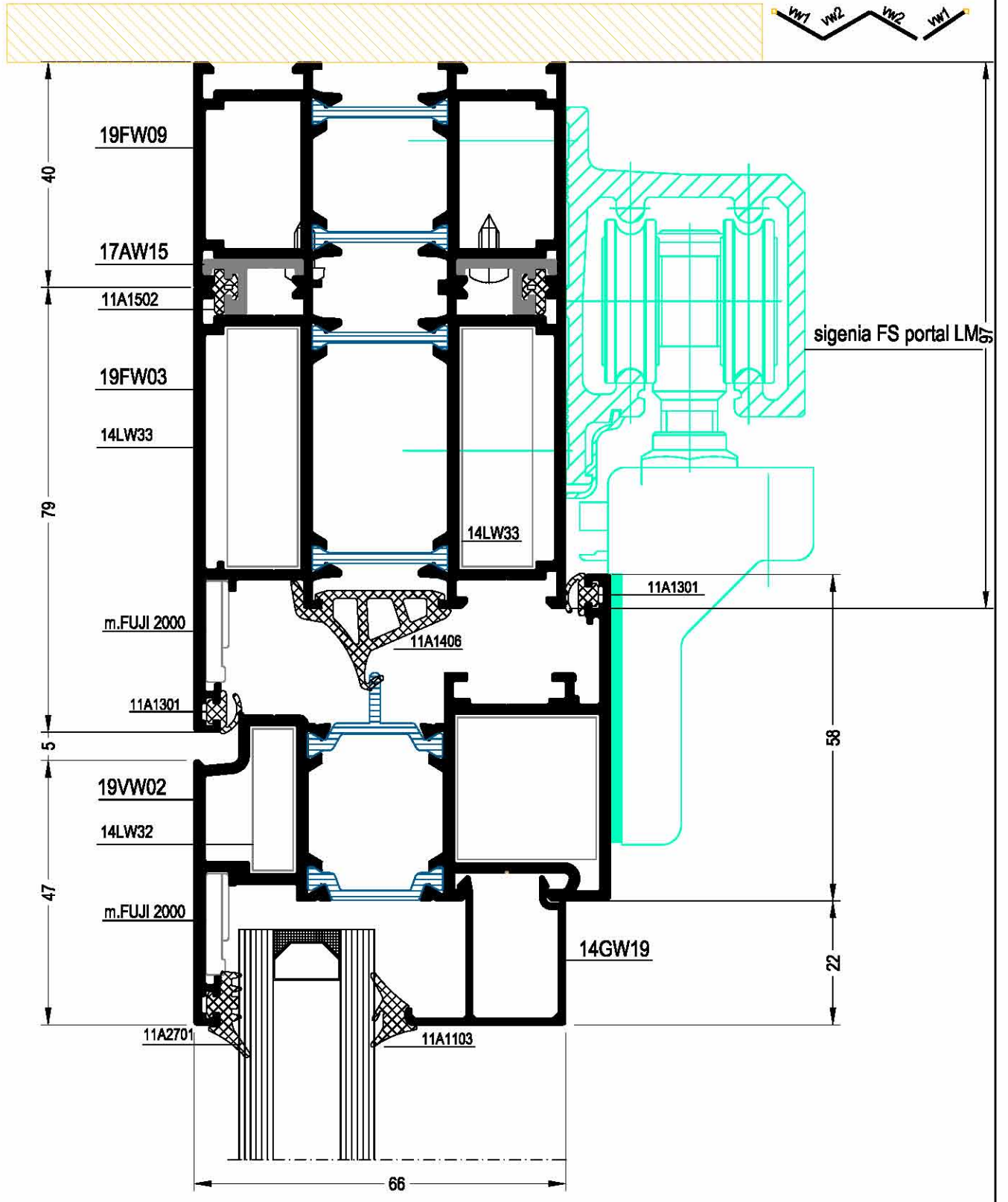
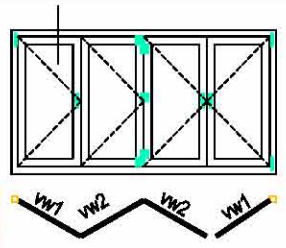


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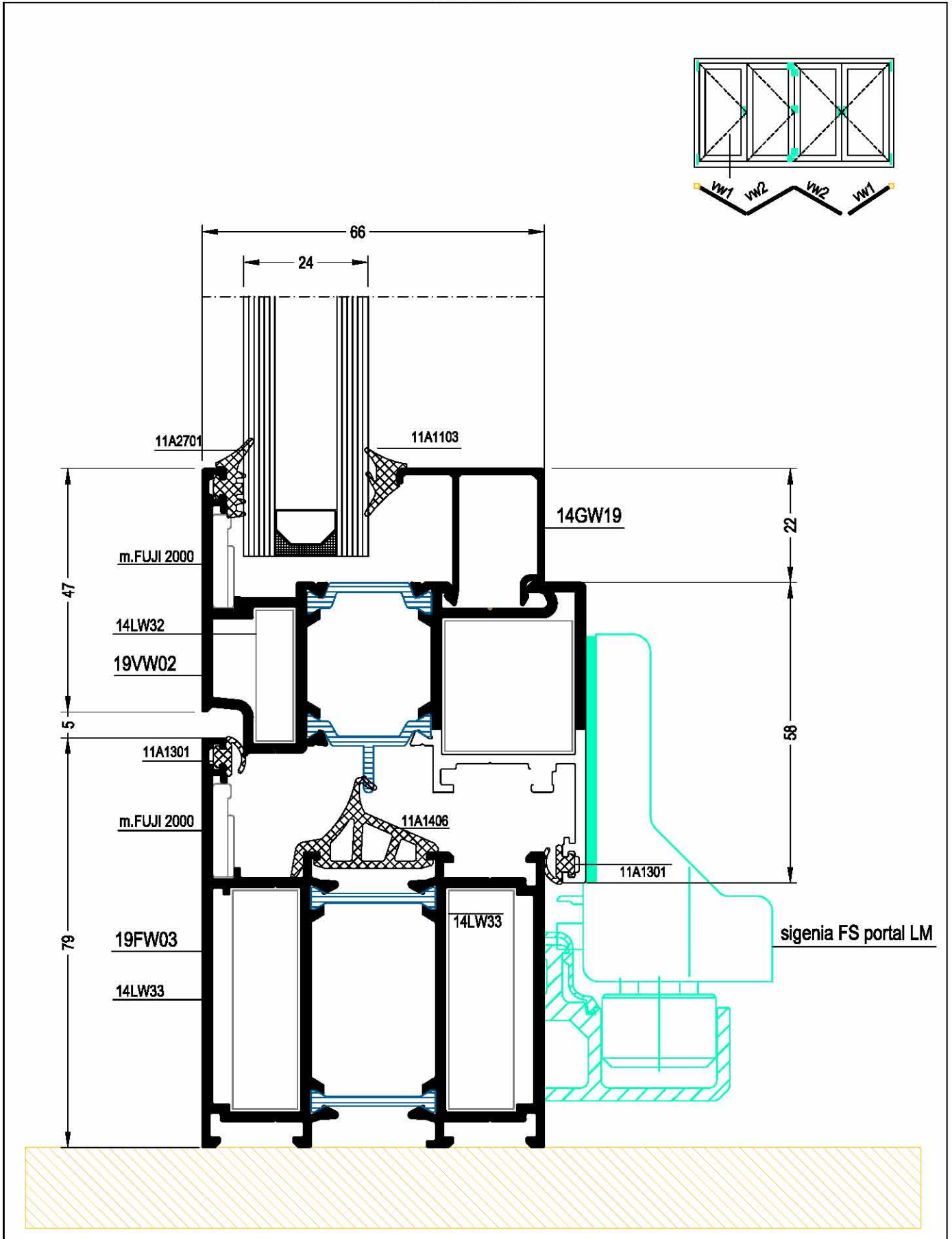


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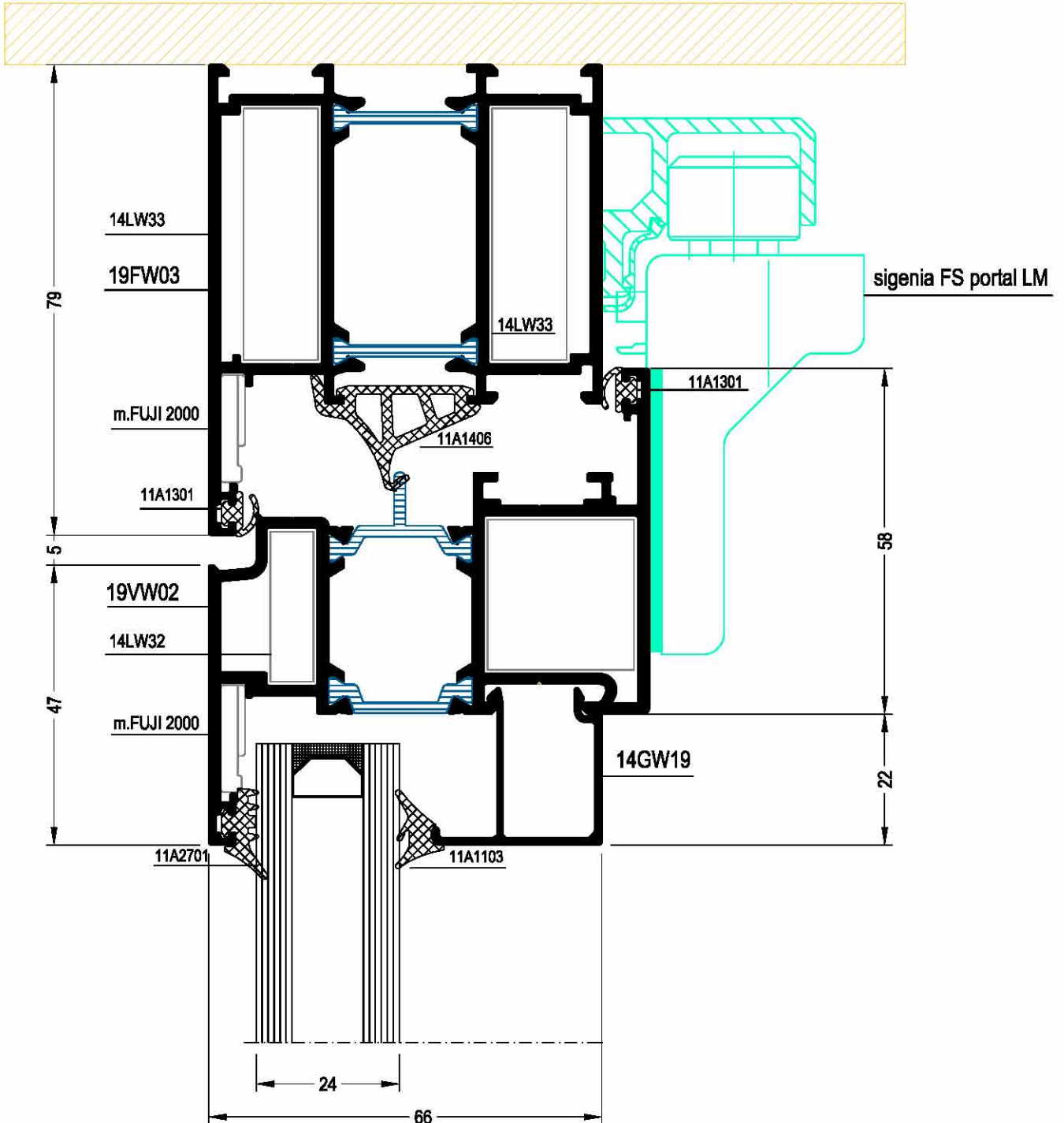
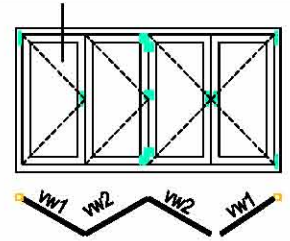




FOLDING DOOR



FOLDING DOOR



FOLDING DOOR

