

# SYSTEM CASTLE

19'66 W+

ARCHITECTURAL CATALOGUE









EDITION: 03 / 2006





PROFILE LIST

# TECHNICAL INFORMATION

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e - DETAILS		Page 001.e - 036.e
f - CUTTING SIZES		
g - APPLICATION DETAILS		
03 / 2006	SYSTEM CASTLE 19'66 W+	

PROFILE LIST

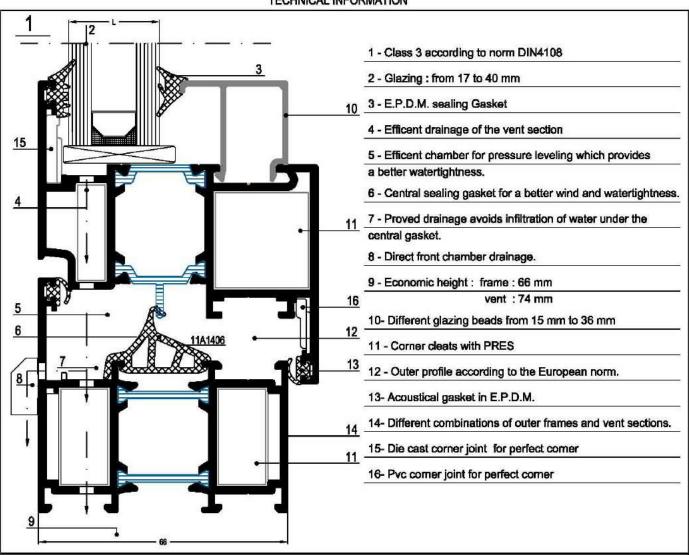
### TECHNICAL INFORMATION

# a - TECHNICAL INFORMATION

				Υ.		Statics		Surfaces		
CATAL	NR	PROFILE	x	DESCRIPTION	THEORETICAL WEIGHT light	Jacot (cm4)	Jyy (an4)	Coating Surface ( cm )	Covering Surface ( cm )	L m
İ										

- \* 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 .

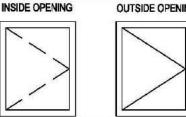
### TECHNICAL INFORMATION



### **EXTERIOR VIEW**





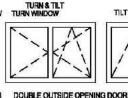




TURNING WINDOW

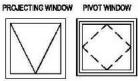




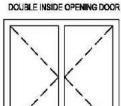




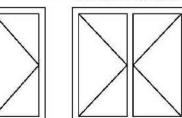


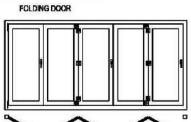






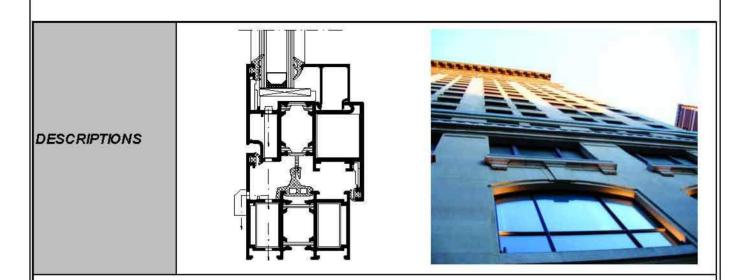








# CONTENTS OF THE TENDER



# \*\*\* CASTLE 17'60 W+ System insulated window and door systems.

Construction Depth	* Window: Frame: 60 mm - Vent: 68 mm * Door: Frame: 60 mm - Vent: 68 mm					
Glazing	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.					
	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.					
Special Characteristics	Curved and round windows possible.					
	Compatible with curtain wall system.					
	Special ventilation possibilities.					
Connections	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.					
	The opening windows have a central gasket an acoustical gasket and glazing gaskets in E.P.D.M.					
Gaskets	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.					
Drainage	All window types must be equipped with a drainage system in the bottom profiles or the transoms					
Fitting and anchoring	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.					



# GENERAL PRODUCT DESCRIPTION

	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						
	Physical Properties						
	1. Density : 2.71 g / cm3						
	2. Elasticity module : 7000 kg / mm2						
Aluminium alloy	3. Resistance : 2650 kg / mm2						
	4. Melting point : 650 °C						
	5. Coeffcient of expansion: 23x10 C						
	6. Thermal permeability : 0.48 cal / cm /s						
	Mechanical Properties						
	1. Rupture strength : 23.9 kg / mm2						
	2. Elasticity limit : 19 kg / mm2						
	CONTRACTOR						
	3. Hardness : 25 Brinell						
	The profiles get a surface treatment as described further on. The colours of the profiles for the						
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### THERMAL TRANSMITTANCE

# RMG (DIN 4108)

	1 graup	k <b>≍</b>	2.0 W/(m2K)	
	2.1 group	20 < k =<	2.8 W/(m2K)	
91	2.2 group	28 < k =<	3.5 W/(m2K)	
	2.3 group	3.5 < k ⇒<	4.5 W/(m2K)	
	3 group ***	k > 4	4.5 W/(m2K)	

### THERMAL TRANSMITTANCE ACCORDING TO EN ISO 10077-2

### Theory

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

$$U_f = \frac{L_{2D} - U_p * l_p}{l_f}$$
 and  $L_{2D} = \frac{q_{l,lot}}{\Delta \theta}$ 

with:  $U_f$ : thermal transmittance of the window frame [W/m<sup>2</sup>K]

U<sub>n</sub>: thermal transmittance of the flanking panel [W/m<sup>2</sup>K]

l<sub>p</sub>: projected width of the flanking panel [m]
l<sub>f</sub>: projected width of the window frame [m]
L<sub>2D</sub>: two-dimensional coupling coefficient [W/mK]

q<sub>l,tot</sub>: total heat flow through the window frame and the flanking panel [W/m]

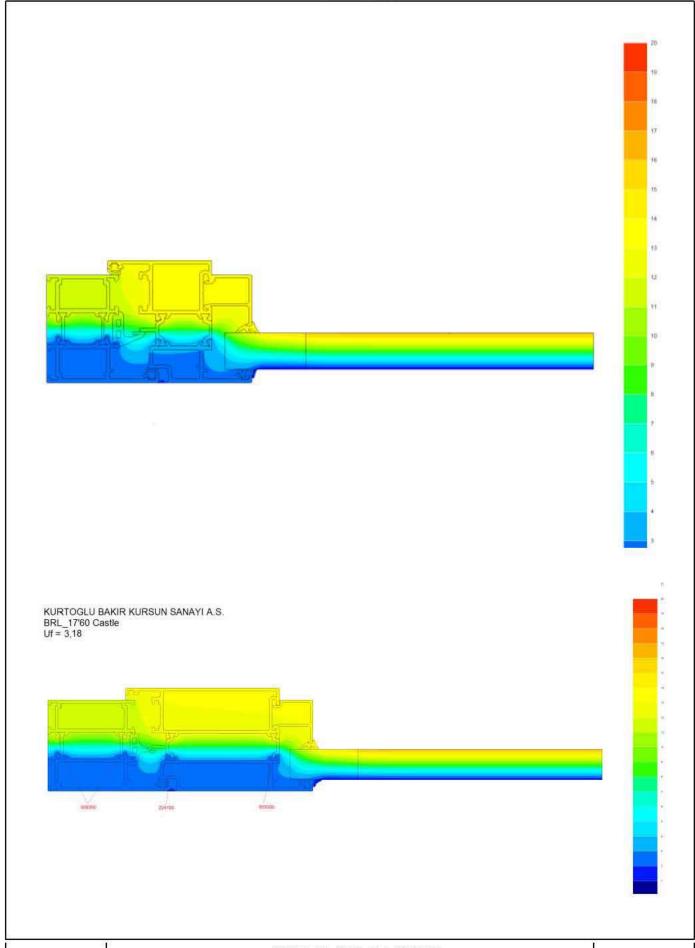
 $\Delta\theta$ : temperature difference between inside ( $\theta i$ ) and outside ( $\theta e$ ) [K]

### Calculation Item:

input data: 
$$q_{l,tot} = 16,250 \text{ W/m}$$
  $R_{se} = 0,04 \text{ m}^2 \text{K/W}$   $\theta_e = 0,0 \text{ °C}$   $R_{si} = 0,13 \text{ m}^2 \text{K/W}$   $\theta_i = 20,0 \text{ °C}$   $R_{si} = 0,13 \text{ m}^2 \text{K/W}$   $\lambda_{p} = 0,035 \text{ W/m}^* \text{K}$   $U_p = 1,349 \text{ W/m}^2 \text{K}$   $I_p = 0,190 \text{ m}$  calculation results:  $L_{2D} = 0,81 \text{ W/mK}$   $I_f = 0,1750 \text{ m}$   $U_f = 3,18 \text{ W/m}^2 \text{K}$ 



### THERMAL TRANSMITTANCE



03 / 2006



### TEST REPORT



# Test Report

: Order Nr. 78 Test Nr. : KURTOGLU ALM.2 Tested By : HUSEYIN SIMSEK

Date: 23.06.2006

Description of Test Element

Window type | SYSTEM CASTLE 17'60 W+

Opening type: CIFT ACILIM-TILT AND TURN MECHANISM Overall Dim. (W x H): 1.466 x 1.256 m Area: 1.841 m2 Opening Vent (W x H): 0.540 x 0.990 m Area: 0.535 m2 0.580 x 1.100 m Area: 0.638 m2 Total Area: 1.173 m2

: 6.420 m

Reference of profiles

France 117 FW03 117 VW02 Sash 117 MW03 Mullion 111A 1404 Sealing Hardwore DALUMINIUM Mahorial Finals

Glazing bead :14 GW 19 :14 PW 02 Drip Bar Other Locking Hinges

Glasing

TEMPER GLASS Type Glazing :6+12+4 Glass Dim. :22

Filling Glas area : Other :

Sill Detail

Transom

Roll shutter box

Classification (EM 12207;EM 12210; EM 12208)

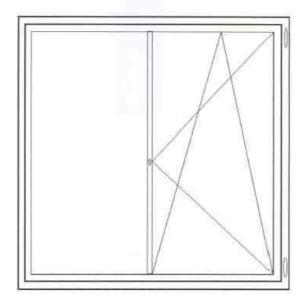
Des: Arioss A4 Wind resistance W1 Est : Arioss A4 Wind resistance W1C Water tightness RAZ Water tightness RAZ

Remarks:

Milton Keynes, 23.06.2006 Tested By:

Window sketch :

Dinmissions (W x M) : 1.466 m p 7.258 ... Seel langth: 8.420 m Jank area: 1.841 m2 Window area: 1.173 m2



# Water Tigthness EN 1027: 2000

Number of norrles: 2 Vol. water: 240.0 Litre/Hour Spraying method A 4.0 Litre/Minute 1 Spraying angle: 24 Degree Number of nozzles: 0 Vol. water: 0.0 Litre/Hour Add. spraying pipe 0.0 Litre/Minute ( 1.0 Litre/Nozzle)

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

Water tightness class: PA9

Point of water ingress :

Probable cause of leakage :



### TEST REPORT



# Airloss EN 1026 : 2003

### Airloss EN 1026:2000

Ambient temperature: 20 Celsius | Ambient humidity | 1 75 % | Ambient pressure: 10 Total area : 1.841 m2 Lenyth of seal: 6.470 m

Pres.	Total	Window	atea	Seal :	length
Pa	m3h	m3/h/m2	Class	mJ/h/m	Class
50	3.10	1.73	84	0.50	A3.
100	4,66	2,54	A4	0.73	
150	6,17	3.35	A4	0.96	24
200	7.47	4.05	A4	1.16	Ail
250	8.58	4.66	3.4	1.34	- 64
300	9.72	5.28	84	1,51	-24
450	12,81	6.96	34	2.00	A4
600	16.92	9.19	84	2,64	A3
-50	3,26	1.77	24	0.51	A3:
-100	4,54	2.47	24	0.71	.34
-150	5.76	3,13	84	0.90	A4
-200	6.81	3,70	.84	1.06	84
-250	7,77	4.22	- 34	1,21	24
-300	8.58	4.66	7.4	1.34	84
-450	10.72	5.82	24	1.67	84
-600	12.32	6.69	A4	1,92	84

Pressure: A4 Suction: A4

Pres.	n3/h	m3/h/n2	Class	Difference to 1.Test	m3/h/s	Class Seal Length	
2.00	8.12	4.41	14	0.010	1.26	A3	0.003
250	9,12	4.95	- 64	0.026	1.42	A3	0.007
300	10.08	5.48	A4	0.049	1.5	A3	0.014
450	12.37	6,72	A4	0.018	1.93	3,4	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	1 - 1	EA	0.029	0.85	6.3	0.008
-150	6.89		A4	0.004	1.07	A3	0.001
-200	8.04	4,36	84	0.004	1,-25	A3	0,001
-250	9.07	4.93	A4	0.018	1.41	A3	0,005
-300	10.10		7.4	0.017	1,57	EA.	0.005
-450	12,20		-	0.007	1.50	Ai	0,002
-600	15.37	10,000,000,000		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 FACULTY

Kurtoğlu 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 YÖNTEMÎNE GÖRE MALZEMENÎN TOPLAM ISI GEÇÎS KATSAYISININ TAYÎNÎ

Deney Yeri . . . . . . Istanbul Teknik Universitesi, Makina Fakultesi, Isi Tekniği Birimi, Isi Olçmeleri Laboratuan

Deneyi İsteyen . . . . : Kurtoğlu Bakır Kurşun Sanayi A.Ş.

Hacı Şeremet Mevkii TEM Otoyolu Çıkışı Velimeşe Çorlu

Denenen Malzeme . . .: Deneyi isteyen tarafından getirilen nı yalıtımlı BRL CASTLE 17'60%

kodlu pencere sistemi. Pencere sistemlerinde kollanilan profillerin. kesit resimleri Ek Ude verilmiştir. Denenen nummenin hazırları Ek Udeki samatik resimle verilmiştir.

boyutları, Ek 2'deki şematik resimde verilmiştir.

Deney Teshatı.....: Ek 3'de görülmektedir

Deneyde Ölçülen

Değerler . . . . . . . . Ek 4'deki deney protokolünde verilmiştir.

Hesap Yöstemi . . . . : Ölçülen değerler kullanılarak, denenen malzemenin toplam su geçiş

katsayısını liesaplama yöntemi, Ek 5'de açıklanmıştır.

Deney Sanueu . . . . . ! K<sub>C</sub> | çerçevenin toplam su geçiş katsayısı, W/m² K

K<sub>1</sub> inscamin toplam nu geçiş katsayısı, W/m² K

 $K_P$  pencere sisteminin toplam isi geçiş katsayısı,  $W/m^2$  K. olmak üzere, yapılan deneyler sonucunda, aşağıdaki tahloda verilen, R ve  $K_C$  değerleri elde edilmiştir. Burada,  $K_L = 3.0 \ W/m^2$  K. olarak.

alternator.

SICAK ODA SICAKLIĞI 'C	SOĞUK ODA SICAKLIĞI °C	K <sub>r</sub> W/m <sup>1</sup> K	K <sub>C</sub> W/m³ K
24.09	3:35	2.76	2.50

Y Doc Dr. Erhan BÖKE

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



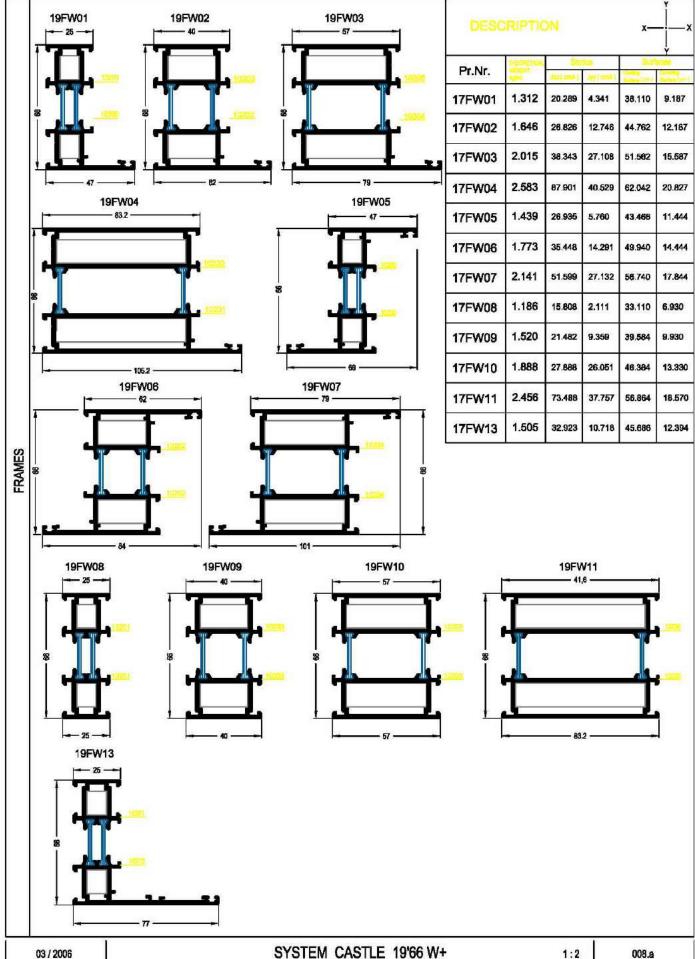
Q : Pencere sistem	57.14	
T <sub>C</sub> : soijuk oda sıraklığı, "C		3.35
T <sub>H</sub> : sıcak oda sıca	klığı, °C	24.09
	$T_{I}$	9/1
Pencerenin sicak ve soğuk	Ta	10.1
yüzeyleri	Т,	10.4
arasındaki meaklik farkı,	T.	12.1
°C	Ta	10.0
	Te	0.7
	T <sub>y</sub>	8.0
	Te	9.2
	T <sub>1</sub>	8.6





### PROFILE LIST

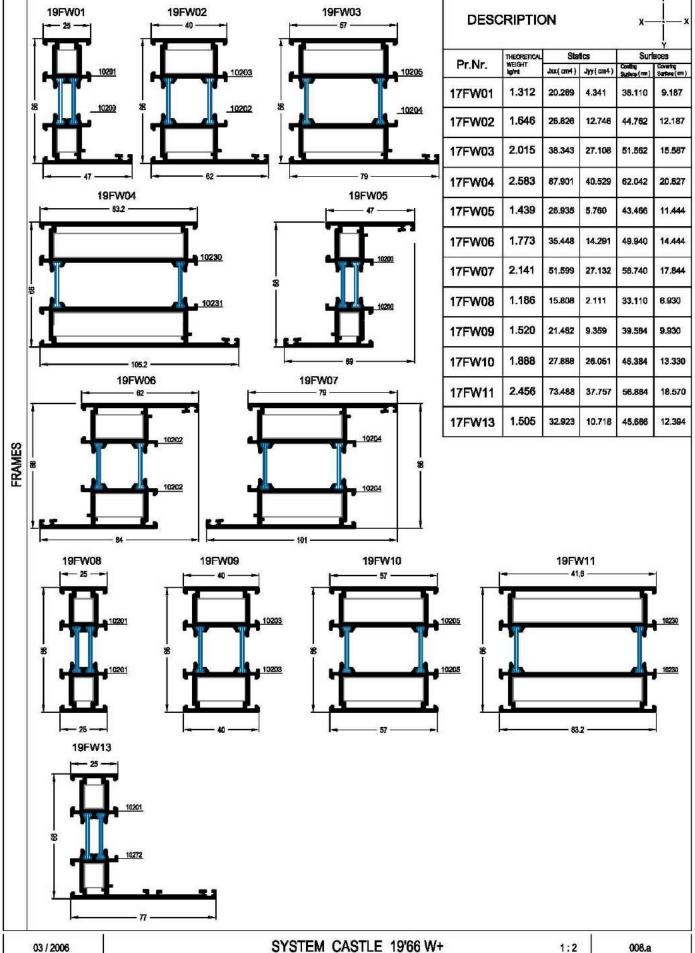
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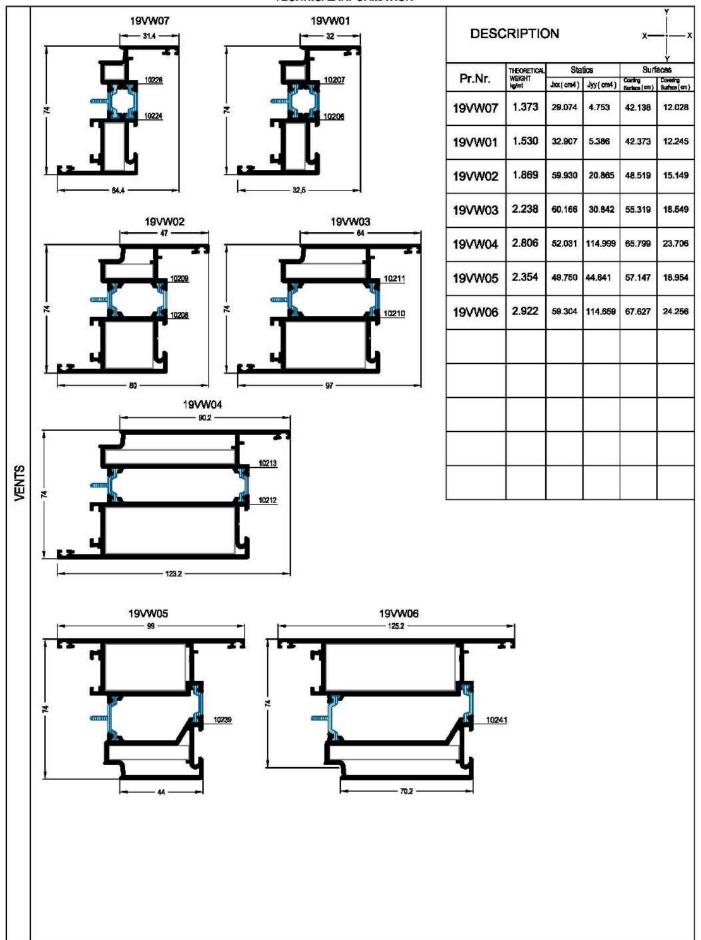
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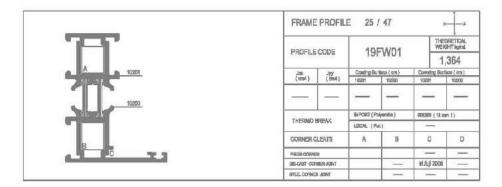
### **TECHNICAL INFORMATION**



1:2

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# b - PROFILE

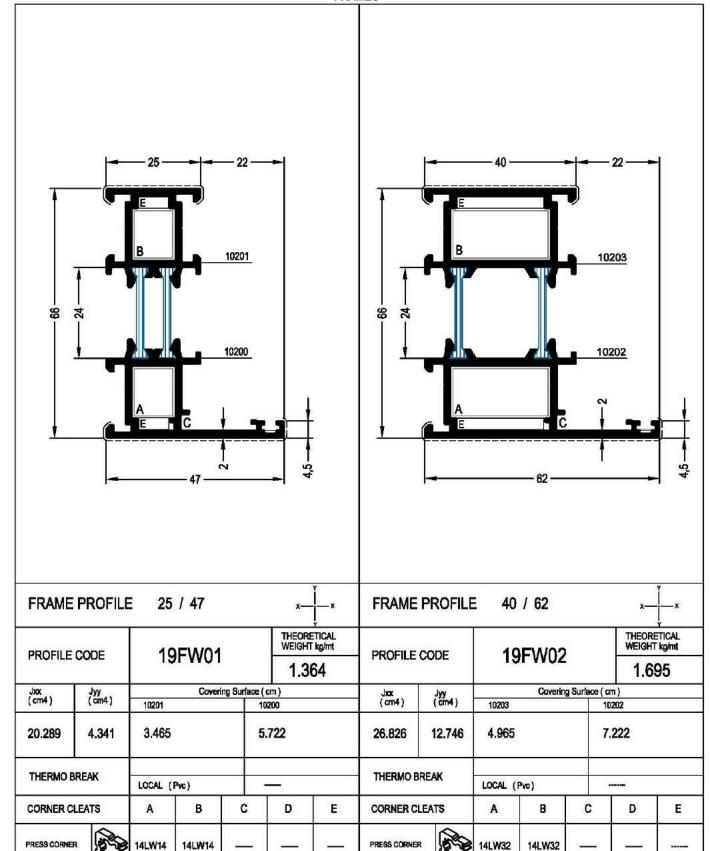


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**PROFILE** 





M.fuji 2000

P.V.C. CORNER JOINT

DIE-CAST CORNER JOINT

P.V.C.

DIE-CAST CORNER JOINT

P.V.C. CORNER JOINT

M.fuji 2000

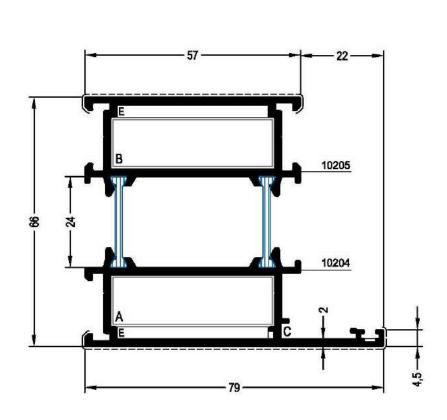
....

P.V.C.



**PROFILE** 

# **FRAMES**

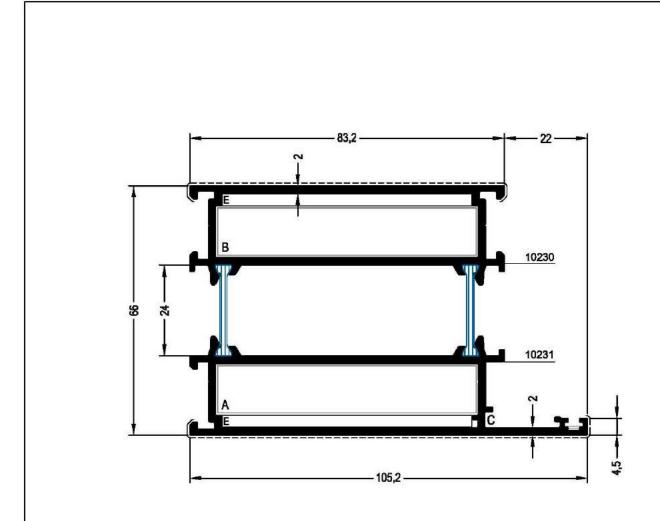


FRAME	PROFILE	57	/ 79		x	x	
PROFILE	CODE	19FW03			THEORETICAL WEIGHT kg/mt		
TIOTILL	OODL				2.064		
Jxx	Jyy		Coverin	ng Surface (cn	n)		
(cm4)	Jyy (cm4)	10205		102	104		
38.343	27.108	6.665		8.	1.922		
THERMO BREAK		LOCAL (Pvc)			_		
CORNER C	LEATS	A	В	С	D	E	
PRESS CORNE		14LW33	14LW33	_		=	
DIE-CAST COR	NER JOINT		500000	M.fuji 2000	-	-	
P.V.C. CORNER	JOINT					P.V.C	



**PROFILE** 

# **FRAMES**

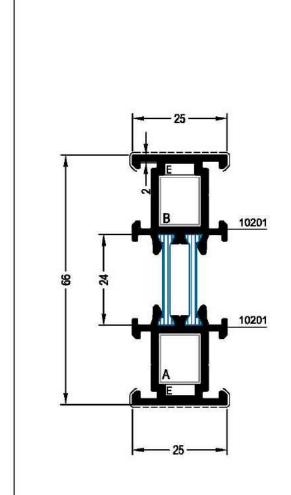


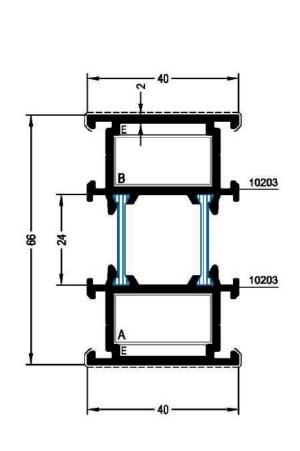
DBOE!! E	CODE	19FW04			THEORETICAL WEIGHT kg/mt		
PROFILE CODE		15	9F VVU-	2.630			
Jxx	Jyy		Coverin	g Surface (cm	)		
( cm4 )	Jyy (cm4)	10230		1023			
87.901	40.529	9.285	11	11.542			
THERMO E	BREAK	LOCAL (	Pvc)	-			
CORNER C	LEATS	A	В	С	D	E	
PRESS CORNE	R	14L <b>W</b> 34	14LW34	2-0	_	-	
DIE-CAST COR	INER JOINT	_	-	M.fuji 2000	_		
P.V.C. CORNER JOINT			1		_	P.V.C	



**PROFILE** 





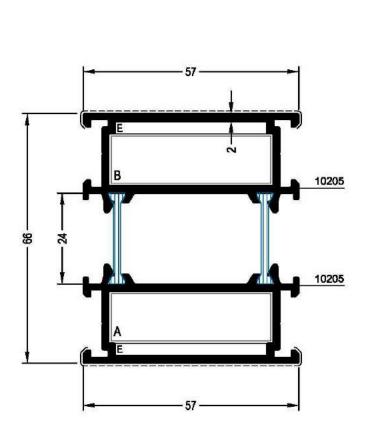


FRAME P	ROFILE	25 / 25		x—x	FRAME	PROFILE	40 / 40		x— x
PROFILE C	ODE	19FW	ng	THEORETICAL WEIGHT kg/mt	DROEII E	PROFILE CODE 19		na	THEORETICAL WEIGHT kg/mt
THORIEL		131 141	00	1.237	TROTILL	OODL	19FW	UÐ	1.571
Jxx	Jyy (cm4)	Cov	vering Surface (	cm)	Jxx	Jyy (cm4)	Co	vering Surface ( c	m)
(cm4)	(cm4)	10201	1	0201	(cm4)	( cm4 )	10203	10	203
15.808	2.111	3.465	3	3.465	21.482	9.359	4.965	4	.965
THERMO BRE	EAK	LOCAL (Pvc)			THERMO B	REAK	LOCAL (Pvc)		
TJUNCTION	3	A	В	С	T JUNCTION	STATE OF THE PARKET	A	В	С
	(4)	14JW04	14JW04	. <u> </u>		(4)	14JW04	14JW04	
ORNER CLEAT	s Park	A	В	С	CORNER CLEA	ATS RES	A	В	С
	10	14LW14	14LW14			<b>1</b>	14LW32	14LW32	



**PROFILE** 

# **FRAMES**

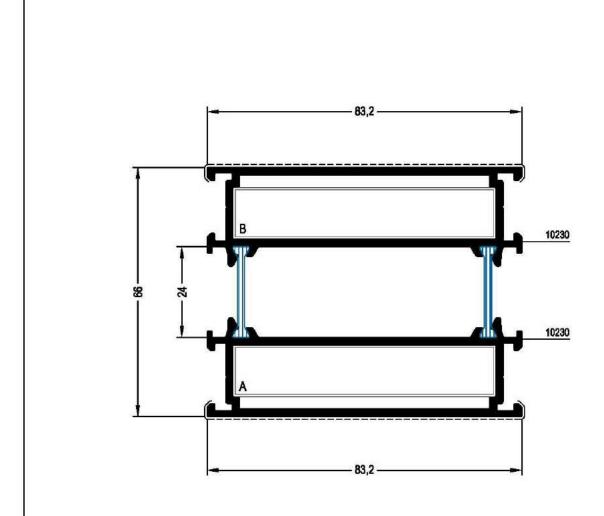


FRAME	PROFIL	E 57 / 57		x— x	
PROFILE	CODE	19FW	10	THEORETICAL WEIGHT kg/mt	
THOTILL	OODL	191 44	10	1.940	
Jxx	Jyy (cm4)	Cov	vering Surface ( cm	1)	
(cm4)	(cm4)	10205	102	05	
27.888	26.051	6.665	6.0	6.665	
THERMO B	REAK	LOCAL (Pvc)		_	
		560			
T JUNCTION		A	В	С	
	6	14JW04	14JW04		
CORNER CLE	ATS S	A	В	С	
	10	14LW33	14LW33	_	



**PROFILE** 

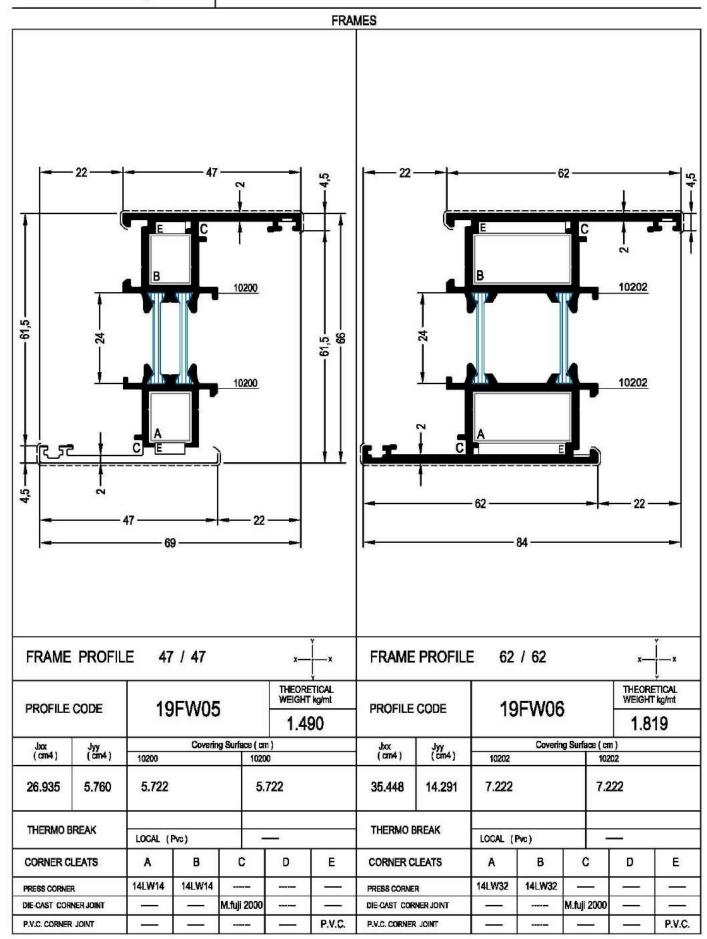
# FRAMES



FRAME	PROFILI	E 83.2 / 8	33.2	xx	
PROFILE	CODE	19FW	11	THEORETICAL WEIGHT kg/mt	
TROTILL	QODL	131 44	1 1	2.504	
Jxx Jyy (cm4) (cm4)		Co	vering Surface (cm	)	
( cm4 )	(cm4)	10230	1023	0	
73.488	37.757	9.285	9.2	285	
THERMO B	REAK	LOCAL (Pvc)	N	_	
T JUNCTION	3	A	В	С	
		14JW04	14JW04	n	
CORNER CLEATS		A	В	С	
	10	14LW34	14LW34	-	



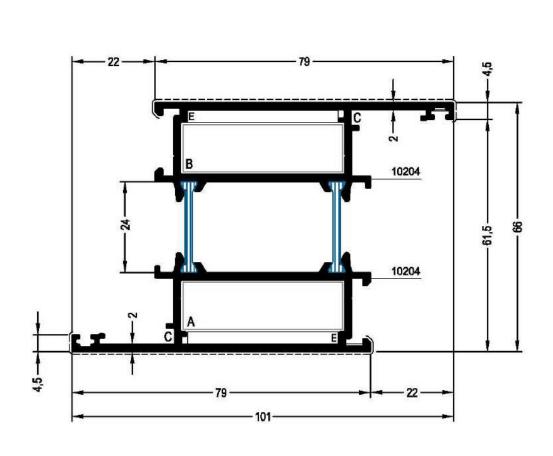
**PROFILE** 





**PROFILE** 

# FRAMES

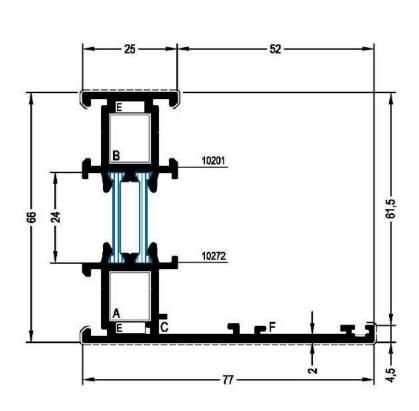


PROFILE CODE		19FW07			THEORETICAL WEIGHT kg/mt			
		18	191 4407			2.188		
Jxx	Јуу		Covering Surface ( cm )					
( cm4 )	(cm4)	10204			10204			
51.599	27.132	8.922		8.	8.922			
THERMO	BREAK	LOCAL (	Dum I		-92			
	10100010001	109977	10000		01 			
CORNER C	LEATS	ABC		C	D	E		
PRESS CORNE	R	14LW33 14LW3			_			
DIE-CAST COF	NER JOINT		7 <del></del>	M.fuji 2000	·	Y10		
P.V.C. CORNER JOINT						P.V.C		

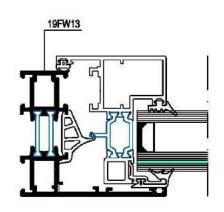


**PROFILE** 

# **FRAMES**

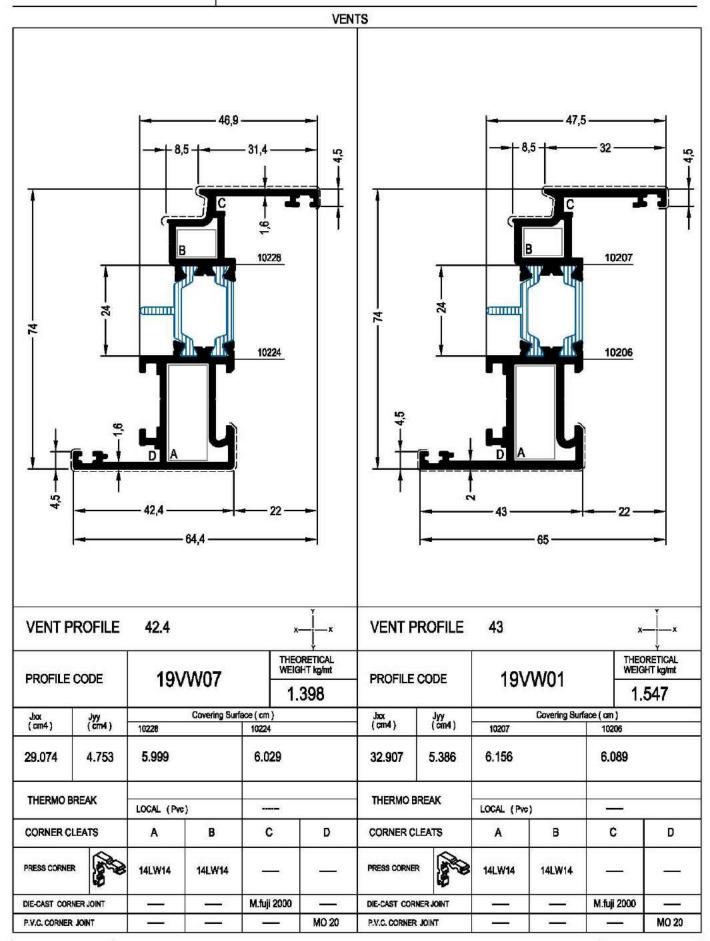


FRAME	PROFILI	= 25	1 77			х-	x
PPOE	ILE CODE		19FV	1112		THEORETICA WEIGHT kg/m	
FROI	ILE CODE		ISEV	VIO		1.555	
Jxx	Jyy		C	overing Surface	(cm)		
(cm4)	Jyy (cm4)	1	0201	_	10272		
32.923	10.718	3	3.465		8.92	9	
THERMO B	REAK		50 W				
		LOCAL (	PVC)				
CORNER C	LEATS	Α	В	С	D	E	F
PRESS CORNE		14LW14	14LW14		_	122 - 440 123 - 335	-
DIE-CAST COR	NER JOINT	-	3	M.fuji 2000	2	_	STEEL
P.V.C. CORNER	JOINT		_		_	P.V.C.	





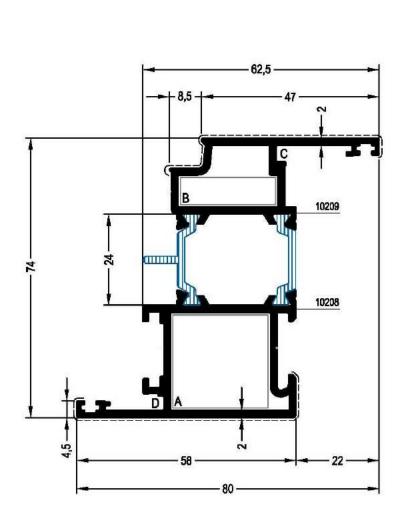
**PROFILE** 





**PROFILE** 

# **VENTS**

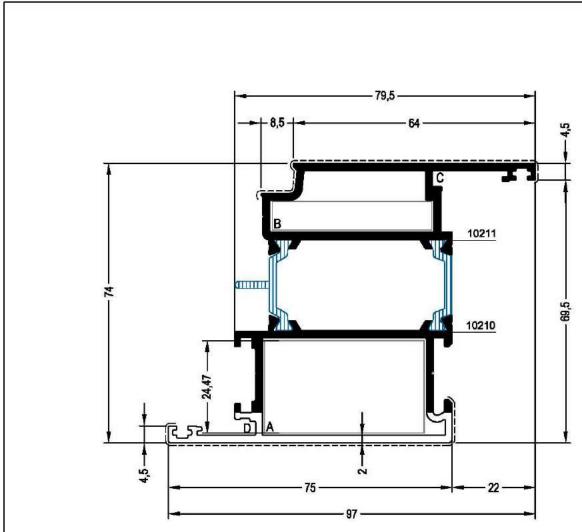


VENT P	ROFILE	58		X-	x
PROFILE CODE		10\	/W02		DRETICAL HT kg/mt
		191	VVUZ	1.898	
Jxx	Jyy (cm4)		Covering Sur	face (cm)	
(cm4)	( cm4 )	10209		10208	
59.930	20.865	7.410		7.739	
THERMO E	BREAK	LOCAL (Pvi	:)	_	
CORNER C	EATS	Α	В	С	D
PRESS CORNER		14LW32	14LW32		_
DIE-CAST COR	NER JOINT	_		M.fuji 2000	_
P.V.C. CORNER	JÖINT	_		_	MO 20



**PROFILE** 

# INSIDE OPENING VENT PROFILES

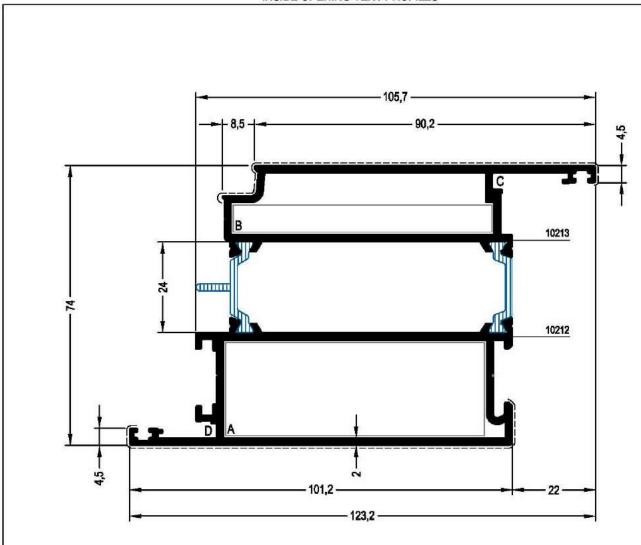


PROFILE CODE  Jxx Jyy (cm4) (cm4)		10)	VVIOO	THEORETICAL WEIGHT kg/mt  2.266	
		191	W03		
			Covering Sur		
(cm4)	(cm4)	10211		10210	
60.166	30.842	9.110		9.439	
THERMO E	BREAK	LOCAL (Pvo	;)	-	
CORNER C	LEATS	A	В	С	D
PRESS CORNE		14LW33	14LW33		
DIE-CAST COR	NER JOINT	-	340-1	M.fuji 2000	_
P.V.C. CORNER	JOINT			-	MO 20



**PROFILE** 

# INSIDE OPENING VENT PROFILES

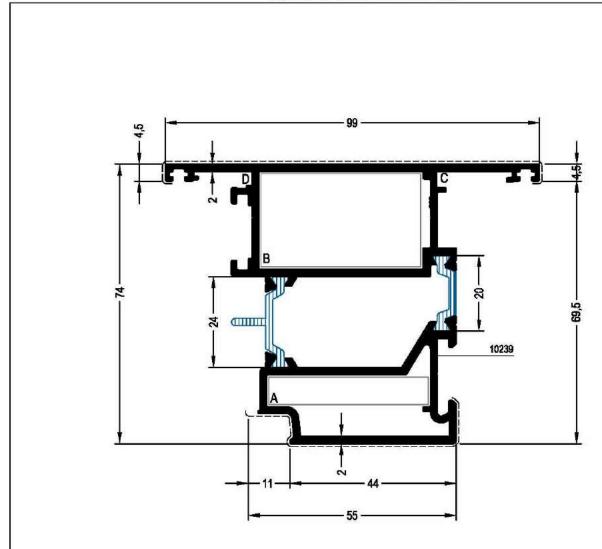


PROFILE CODE  Jxx (cm4) (cm4)		10\	/W04		RETICAL HT kg/mt
		134	WU4	2.835	
			Covering Sur		
( cm4 )	( cm4 )	10213		10212	
52.031	114.999	11.647		12.059	
THERMO	BREAK	LOGAL (Pvo	:)		
CORNER	CLEATS	Α	В	С	D
PRESS CORNI	R P	14LW34	14LW34	-	-
DIE-CAST CO	RNER JOINT	·		M.fuji 2000	_
P.V.C. CORNE	R JOINT		_	_	MO 20



**PROFILE** 

# OUTSIDE OPENING VENT PROFILES

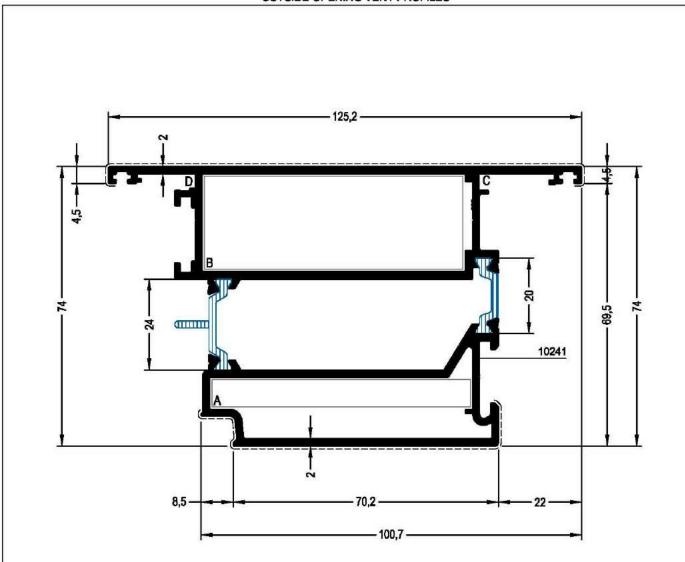


PROFILE CODE		10\	/W05		RETICAL HT kg/mt	
		197	VVUO	2.381		
Jxx			Covering Surface		ice (cm)	
( cm4 )	( cm4 )	10240		10239		
49.750	44.641	11.279		7.675		
THERMO	BREAK	LOCAL (Pvo	:)	-8		
CORNER C	LEATS	A	В	С	D	
PRESS CORNE	R P	14LW33	14LW33		-	
DIE-CAST COF	NER JOINT			M.fuji 2000	5—	
P.V.C. CORNER	JOINT			_	MO 20	



**PROFILE** 

# OUTSIDE OPENING VENT PROFILES

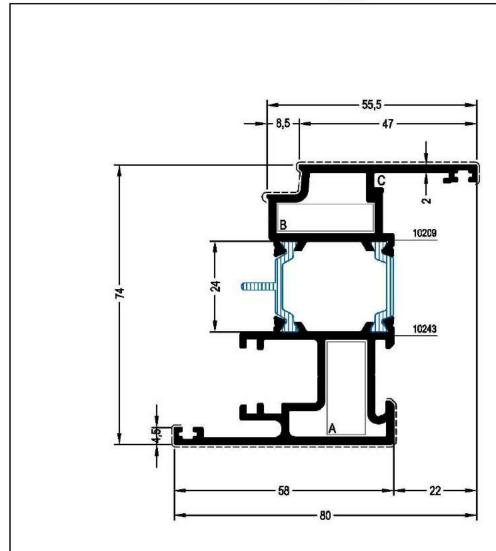


DDAEII E	CODE	10\	/W06		RETICAL HT kg/mt
Jxx Jyy (cm4)		191	WUU	2.9	952
			face (cm)	cm)	
(cm4)	(cm4)	10242		10241	
59.304	114.659	13.899		10.357	
THERMO E	BREAK	LOCAL (Pvo	)		
CORNER O	CLEATS	A	В	С	D
PRESS CORNE	R P	14LW34	14LW34	200	( <del></del>
DIE-CAST CO	RNER JOINT			M.fuji 2000	
P.V.C. CORNE	TAIOL S				MQ 20

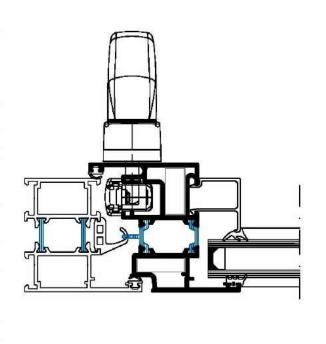


**PROFILE** 

# **VENTS**

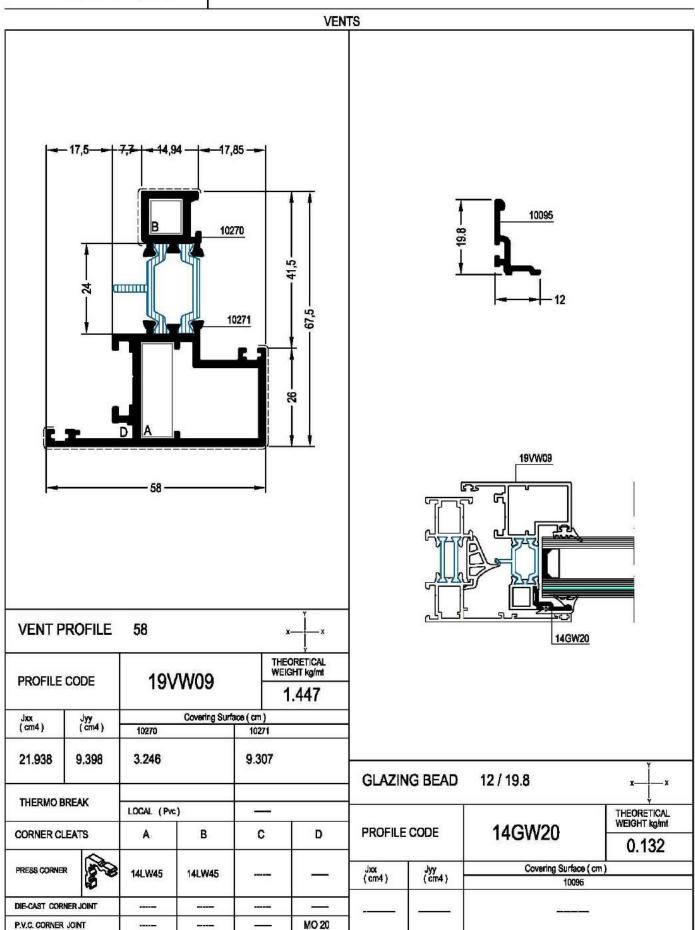


PROFILE CODE		100.000			EORETICAL	
		19\	/W08	WEIGHT kg/n		
					1.960	
Jxx	Jyy		Covering Sur			
(cm4)	(čin4)	10209		10243		
43.773	14.745	7.410		7.797		
THERMO B	REAK	LOCAL (Pvo				
		LOCAL (PV	1		1	
CORNER CL	EATS.	A	В	C	D	
PRESS CORNE		14LW14	14LW32		====	
DIE-GAST COR	NER JOINT		-	M.fuji 2000	_	
P.V.C. CORNER	JOINT			_	-	





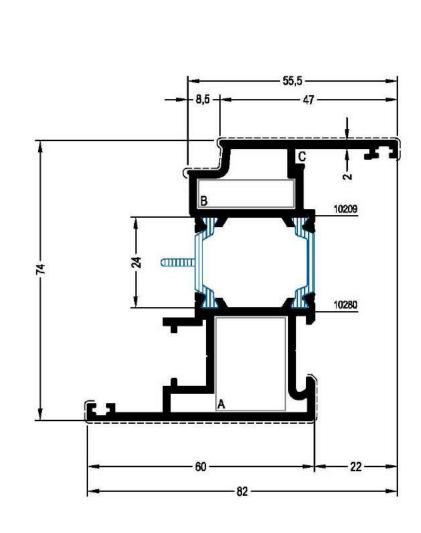
**PROFILE** 





**PROFILE** 

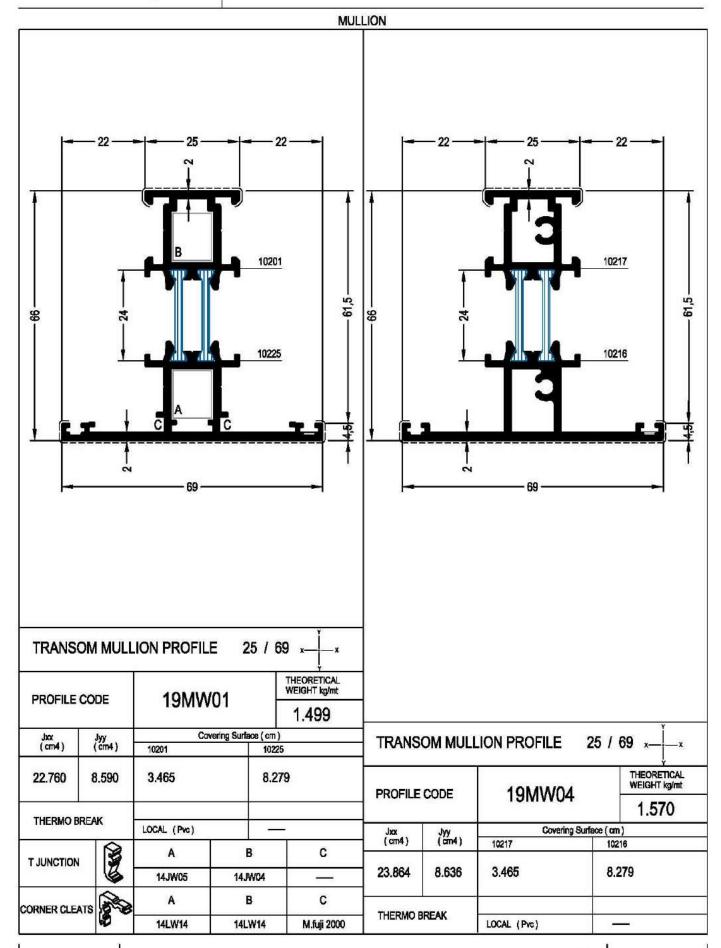
# VENTS for P.V.C. ACCESSORIES



VENT F	PROFILE	60		X	
PROFILE CODE		19\	/W11		ORETICAL GHT kg/mt
		151	****	1.930	
Jxx (cm4)	Jyy (cm4)		Covering Sur	face (cm)	
(cm4)	(cm4)	10209		10280	
44.486	14.826	7.410		7.997	
THERMO	BREAK	LOCAL (Pvo	ı)	_	
CORNER C	LEATS	A	В	С	D
PRESS CORNER		14LW35	14LW32	_	
DIE-CAST COR	RNER JOINT	89—28		M.fuji 2000	
P.V.C. CORNE	R JOINT	_	-	-	0080000

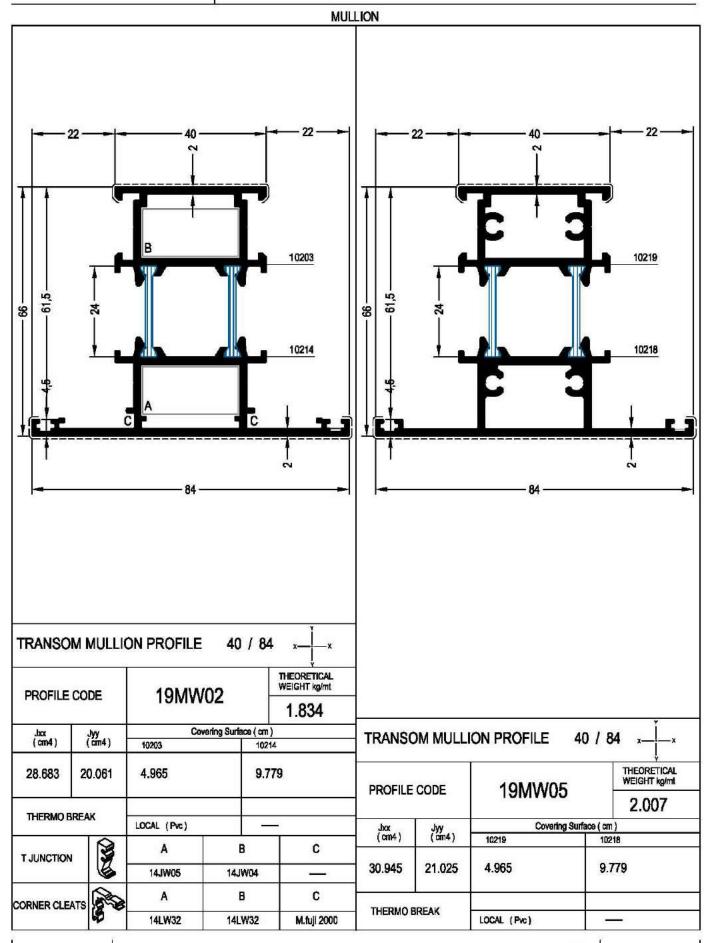


**PROFILE** 





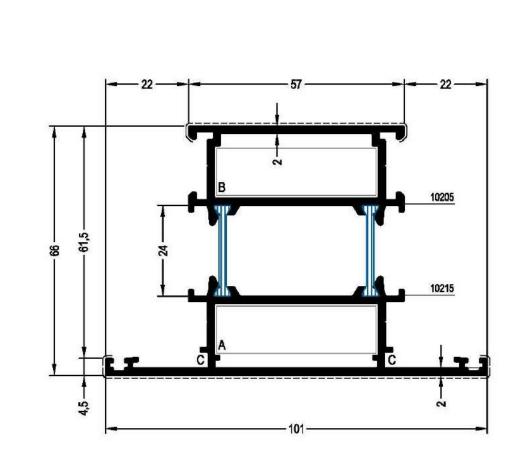
**PROFILE** 





**PROFILE** 

# MULLION

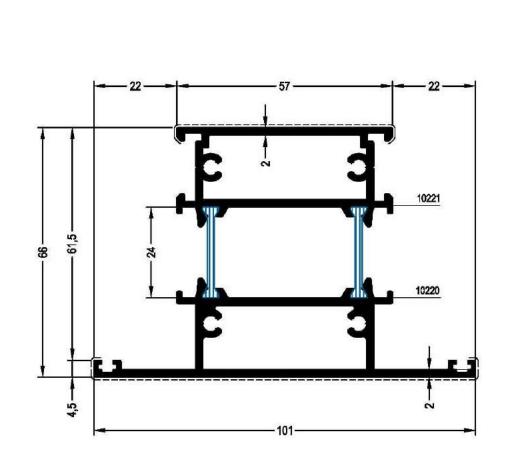


PROFILE CODE		19MW03		THEORETICAL WEIGHT kg/mt	
				2.202	
Jxx	Jyy (cm4)	Con	1)		
(cm4)	(cm4)	10205	102	10215	
42.758	35.277	6.665 1		.479	
THERMO E	REAK	LOCAL (Pvc)	_		
T JUNCTION		Α	В	С	
		14JW05	14JW04	-	
CORNER CLEATS		Α	В	С	
	19	14LW33	14LW33	M.fuji 2000	



**PROFILE** 

### MULLION

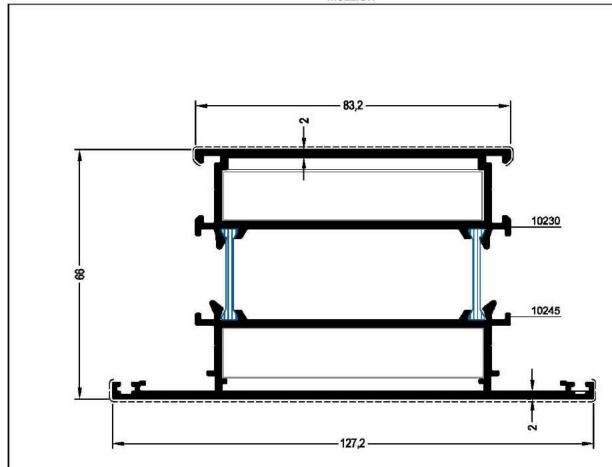


DDOEII E	CODE	19MW06	THEORETICAL WEIGHT kg/mt
PROFILE CODE		19101000	2.375
Jxx _	Jyy (cm4)	Covering	Surface (cm)
(cm4)	(cm4)	10221	10220
45.532	37.493	6.665	11.479
THERMO BREAK		LOCAL (Pvc)	

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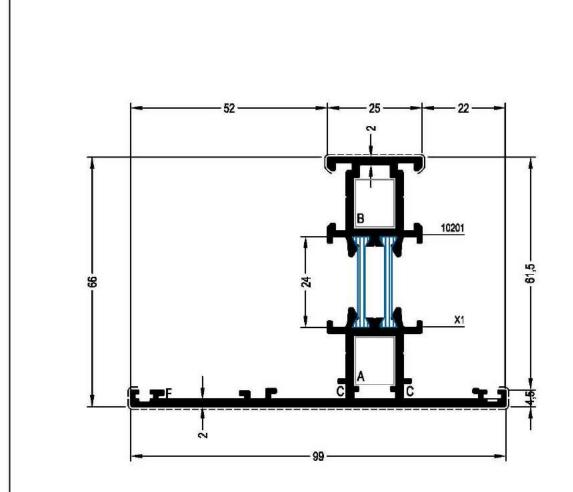
**PROFILE** 



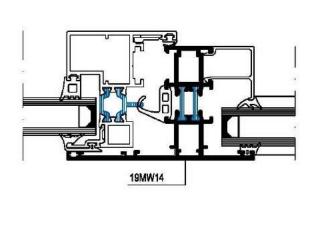
PROFILE CODE		19MW07		THEORETICAL WEIGHT kg/mt	
				2.768	
Jxx	١,	lyy .	Co	vering Surface ( cm	1)
(cm4)	(	cm4)	10244	1024	5
46.415	11	0.679	9.565	14	.379
THERMO	BREA	ĸ	LOCAL (Pvc)	_	_
TJUNCTIO	N	8	A	В	С
1 JUNE TON		14JW05	14JW04		
CORNER CLE	ATS		A	В	С
	TO. 502 10 PK	10	14LW34	14LW34	M.fuji 2000



**PROFILE** 

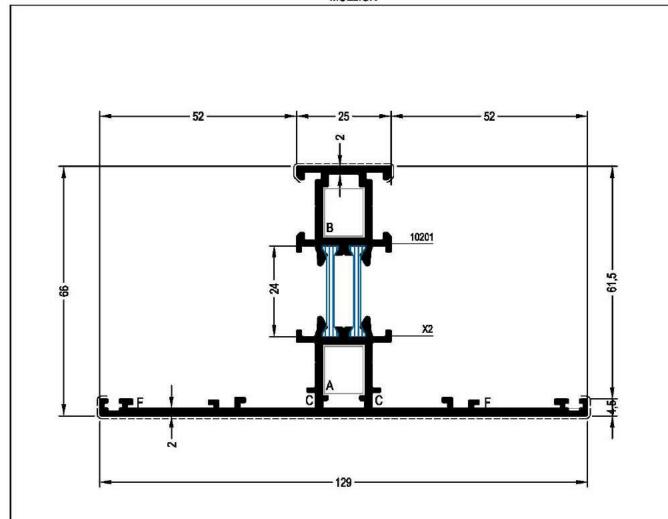


PROFILE	PROFILE CODE		/W14		RETICAL HT kg/mt	
THO ILL GODE		1011	IVY IT	1.4	1.695	
Jxx	Jyy (cm4)		Covering Sur	face (cm)		
(cm4)	( cm4 )	10201		X1		
33.114	18.308	3.465		11.299		
THERMO E	BREAK -	LOCAL (Pvo	:)		21	
T JUNCTION		Α	В	С		
		14JW05	14JW04	_	1 1/2	
CORNER CLE	ATS S	A	В	С	F	
	10	14LW14	14LW14	M.fuji 2000	STEEL	

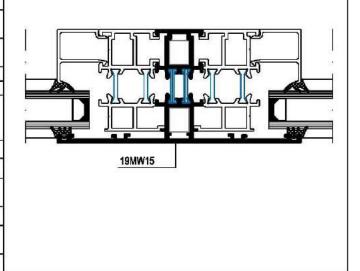




**PROFILE** 

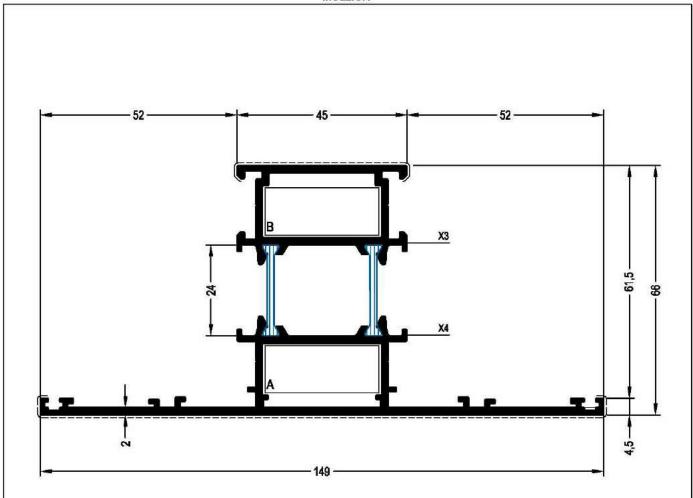


PROFILE CODE		101	/W15		ORETICAL GHT kg/mt
		131	NVV 13	1	.885
Jxx	Jyy (cm4)		Covering Sur	face (cm)	
(cm4)	( cm4 )	10201		X2	
45.113	29.198	3.465		14.278	
THERMO E	BREAK	LOCAL (Pvo	:)	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
T JUNCTION	3	A	В	С	
		14JW05	14JW04	_	_
CORNER CLE	ATS ATS	Α	В	С	F
	10	14LW14	14LW14	M.fuji 2000	STEEL

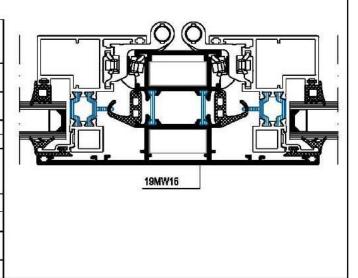




**PROFILE** 

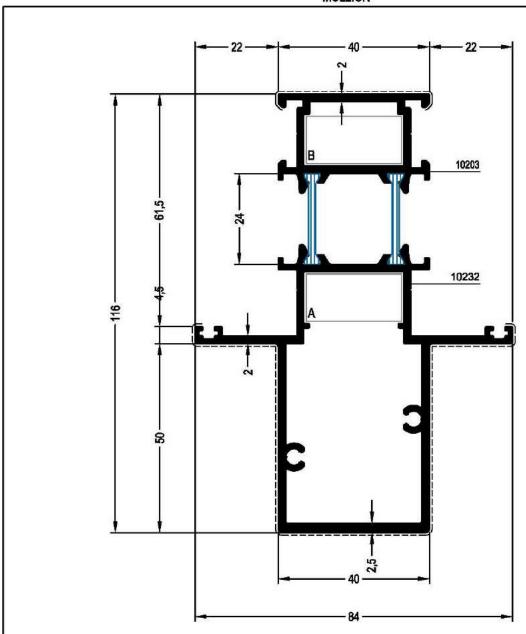


TRANSO	M MULLI	ON PROFILE	45 / 1	49 x— x	
DDOE!! E	CODE	19MW	116	THEORETICAL WEIGHT kg/mt	
PROFILE CODE		1910100 10		2.323	
Joo	Jyy ( cm4 )	Cov	vering Surface (cn	1)	
( cm4 )	( cm4 )	Х3	X4		
77.666	37.979	5.465	16.	278	
THERMO E	BREAK	LOCAL (Pvc)	-		
T JUNCTION	3	А	В	С	
		14JW05	14JW04	1 <u>×</u> -×	





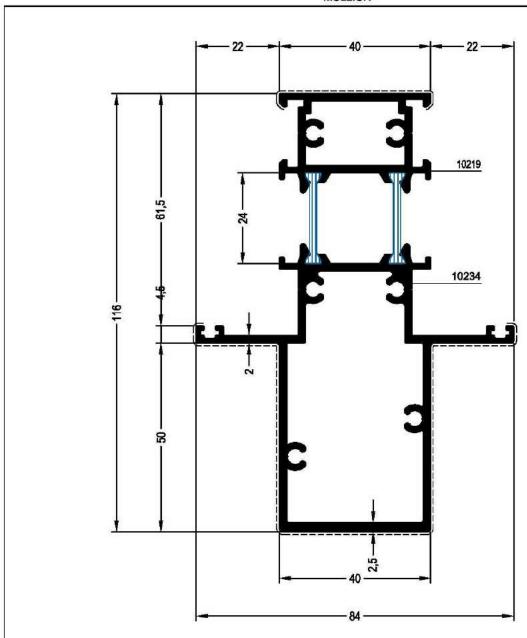
**PROFILE** 



		401414/00		THEORETICAL WEIGHT kg/mt
PROFILE CODE		19MW08		2.547
Jxx	Jyy ( cm4 )	Cov	vering Surface (cn	1)
(cm4)	( cm4 )	10203	102	32
109.702	28.479	4.965	19.	608
THERMO E	REAK	LOCAL (Pvc)	-	
T JUNCTION	<b>S</b>	А	В	С
		14JW05	14JW04	



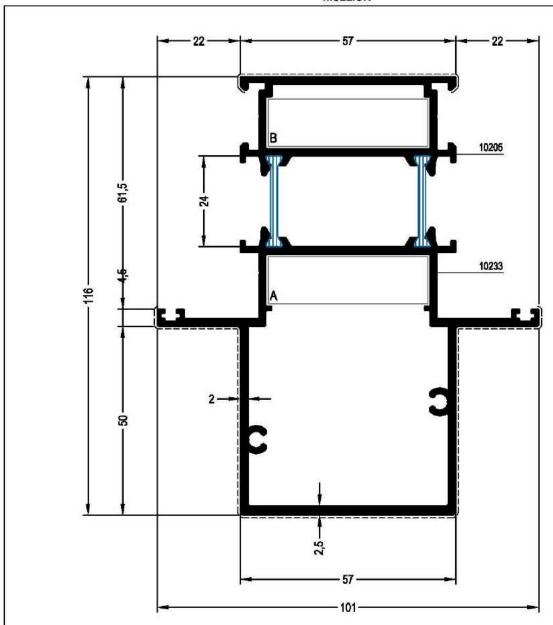
**PROFILE** 



PROFILE CODE		19MW09	THEORETICAL WEIGHT kg/mi
		191/1/1/08	2.738
Jxx (cm4)	Jyy (cm4)	Coverin	g Surface (cm)
(cm4)	(cm4)	10219	10234
115.270	29.143	4.965	19.608
THERMO BREAK		LOCAL (Pvc)	



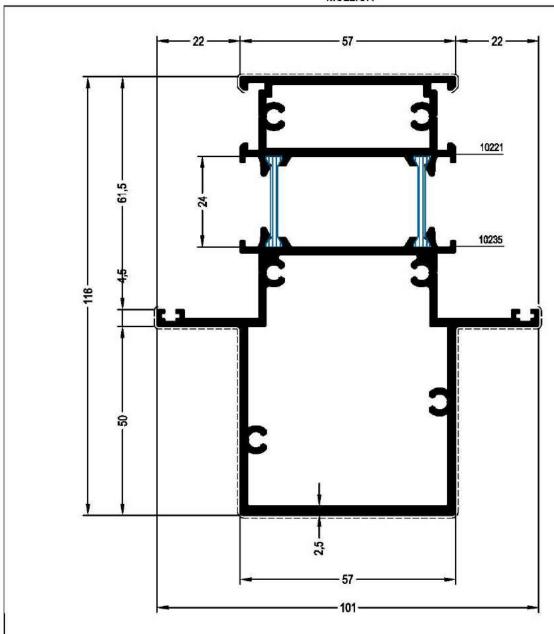
**PROFILE** 



PROFILE CODE		19MW10		THEORETICAL WEIGHT kg/mt
				2.937
Jxx	Jyy (cm4)	Cov	vering Surface ( or	n)
(cm4)	(cm4)	10205	102	33
136.110	60.716	6.728	21.	070
THERMO E	REAK	LOCAL (Pvc)	-	_
T JUNCTION	3	Α	В	С
		14JW05	14JW04	_



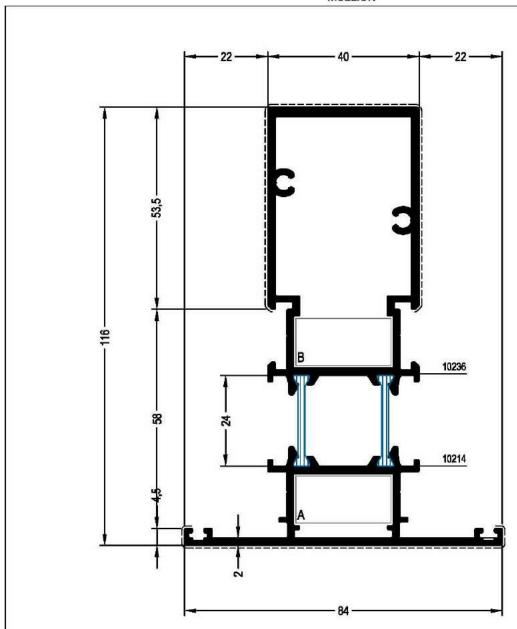
**PROFILE** 



DOCEII E	CODE	19MW11	THEORETICAL WEIGHT kg/mt
ROFILE CODE		I SIVIVVII	3.130
Jxx	Jyy	Covering	Surface (cm)
(cm4) (cm4)	10221	10235	
141.500	63.443	6.728	21.070
THERMO B	REAK	LOCAL (Pvc)	_



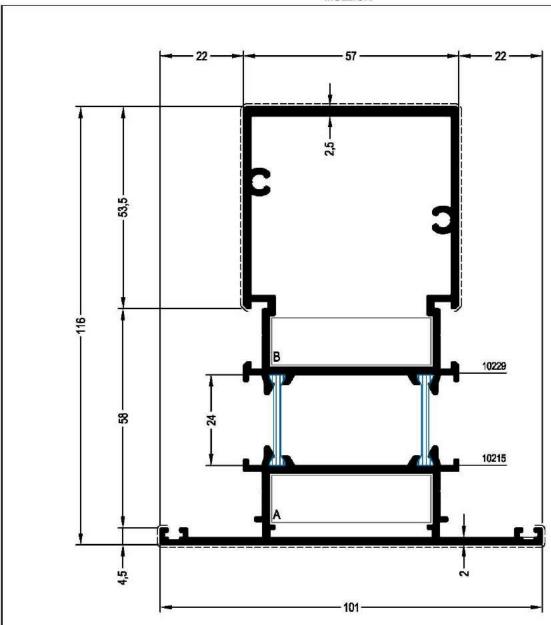
**PROFILE** 



PROFILE CODE		101414	110	THEORETICAL WEIGHT kg/mt
		19MW12		2.579
Jxx	Jyy (cm4)	Cov	vering Surface ( cm	i)
( cm4 )	(cm4)	10236	102	214
131.547	28.870	14.905	9.7	779
THERMO B	REAK	LOCAL (Pvc)	-	
T JUNCTION		Α	В	С
		14JW05	14JW04	



**PROFILE** 

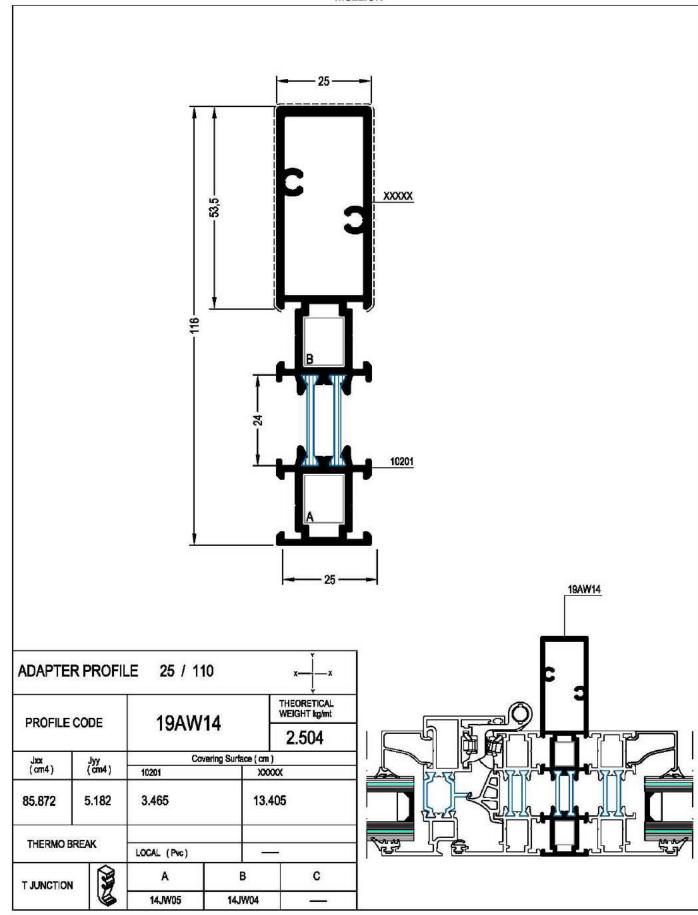


PROFILE CODE		19MW13		THEORETICAL WEIGHT kg/mt
				2.971
Jxx	Jyy (cm4)	Covering Surface		n)
(cm4)	( cm4 )	10229	10	215
156.969	61.200	16.605	11	.479
THERMO B	REAK	LOCAL (Pvc)		—
T JUNCTION	3	Α	В	С
		14JW05	14JW04	



**PROFILE** 

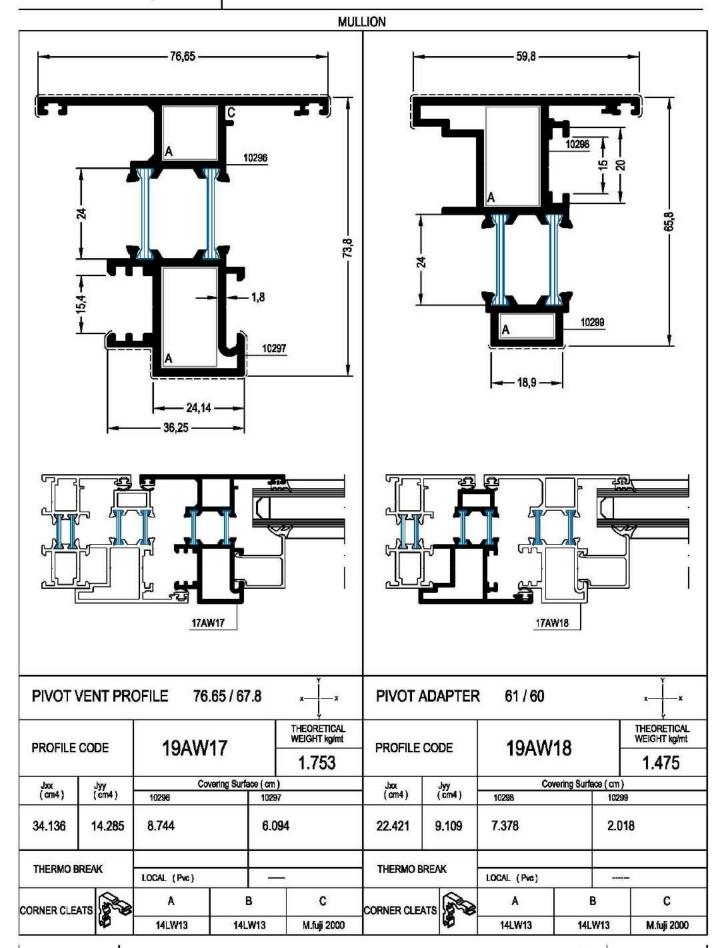
### MULLION



03 / 2006

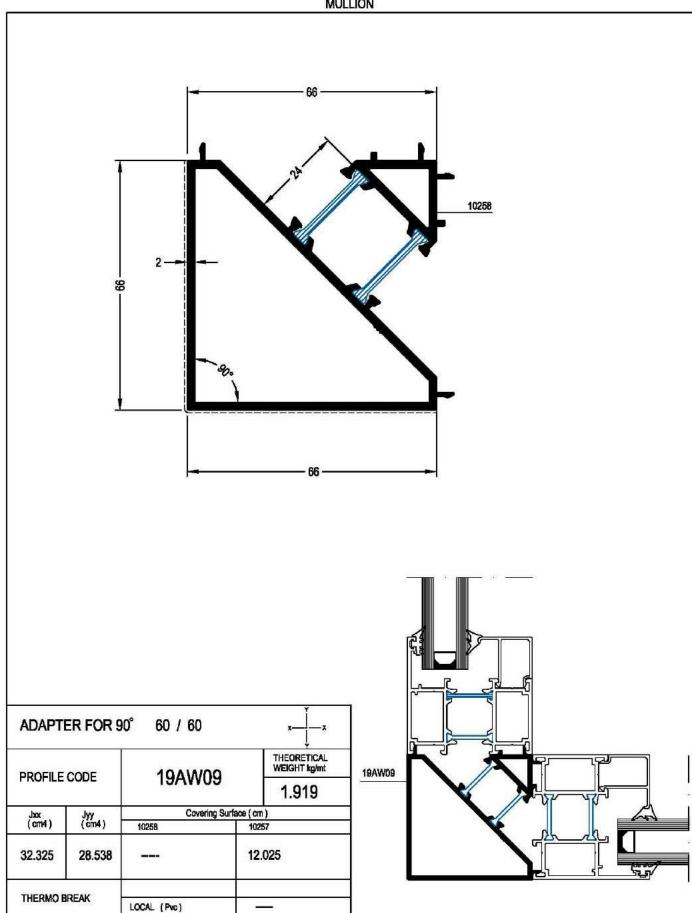


**PROFILE** 

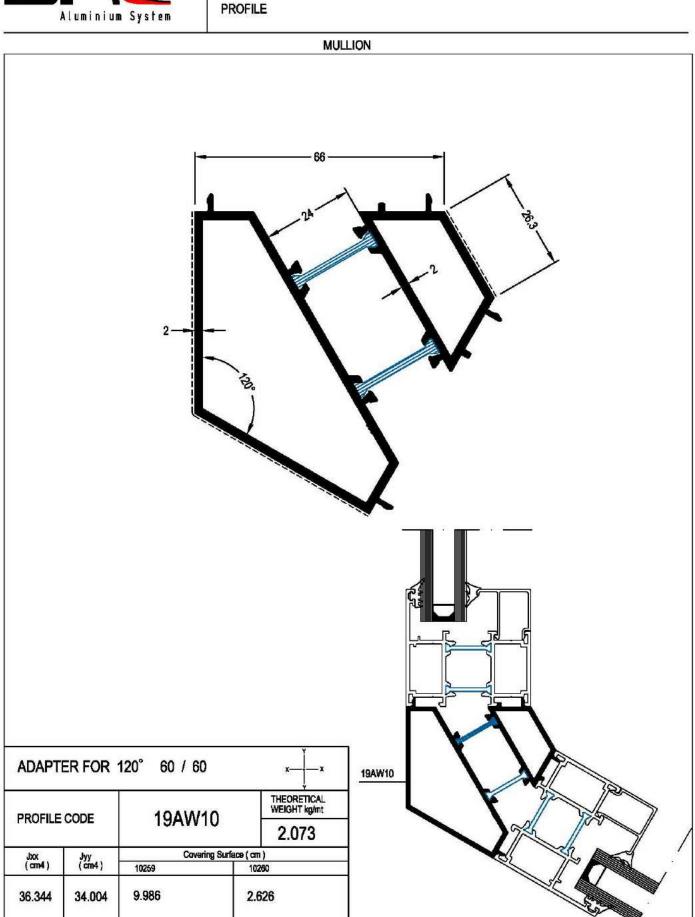




**PROFILE** 





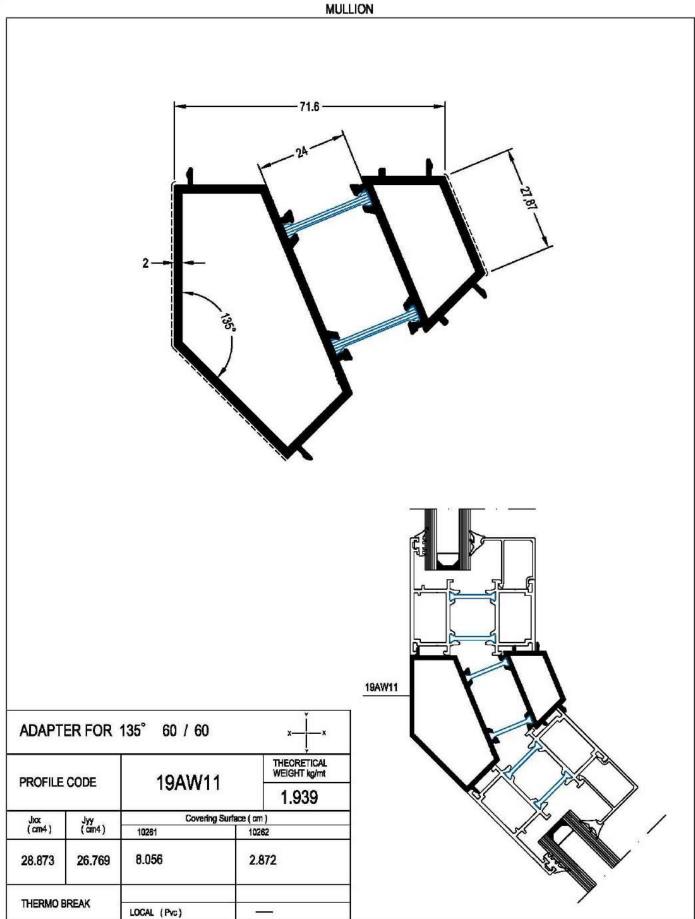


THERMO BREAK

LOCAL (Pvc)

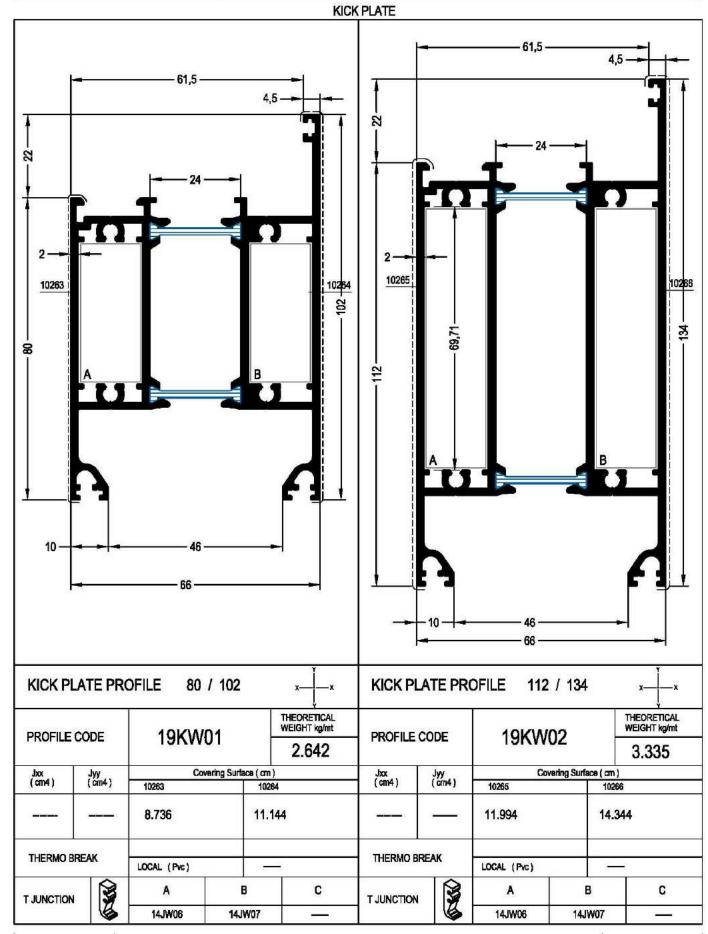


**PROFILE** 





**PROFILE** 

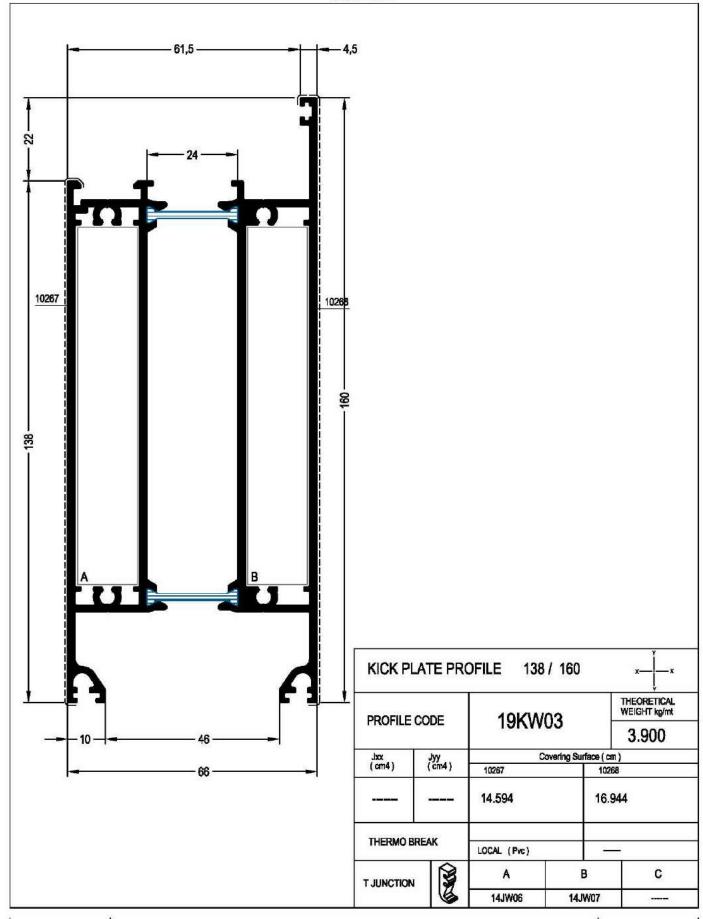


040.b



**PROFILE** 

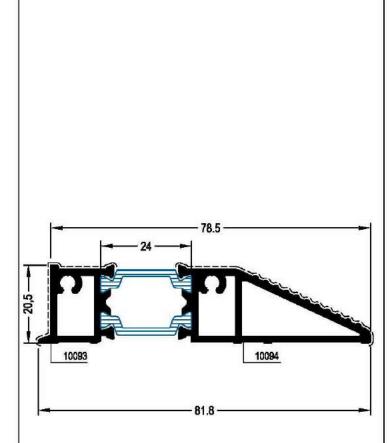
### KICK PLATE

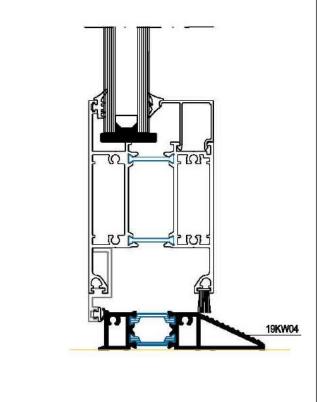


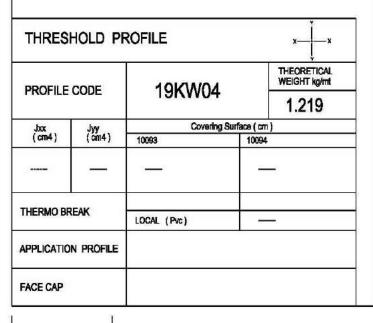


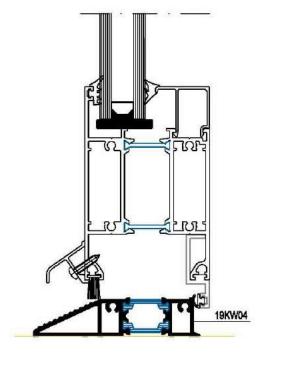
**PROFILE** 







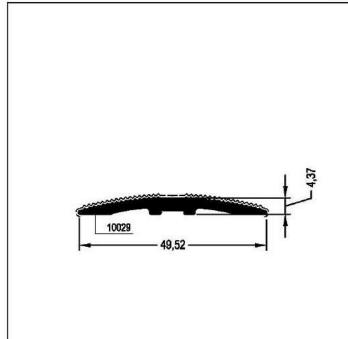


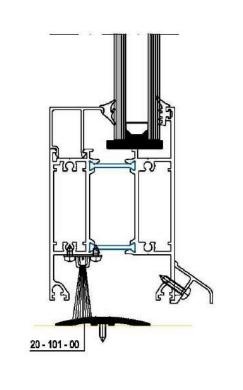




**PROFILE** 

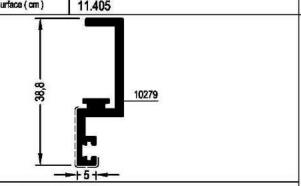






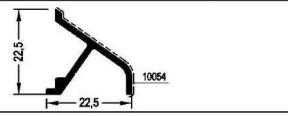
### THRESHOLD PROFILE

PROFILE CODE	20 - 101 - 00	THEORETICAL WEIGHT kg/mt
	20 101 00	0.355
Coating Surface ( cm )	44.405	34191130-0011-14-100



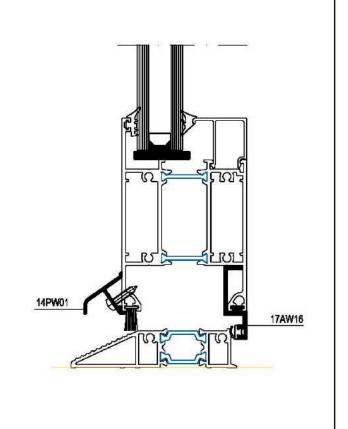
# KICK PLATE PROFILE

PROFILE CODE	1 17	7AW16	THEORETICAL WEIGHT kg/mt
		711110	0.373
Coating Surface (cm)	14.314	Covering Surface (cm)	2.359



# DRAINAGE PROFILE

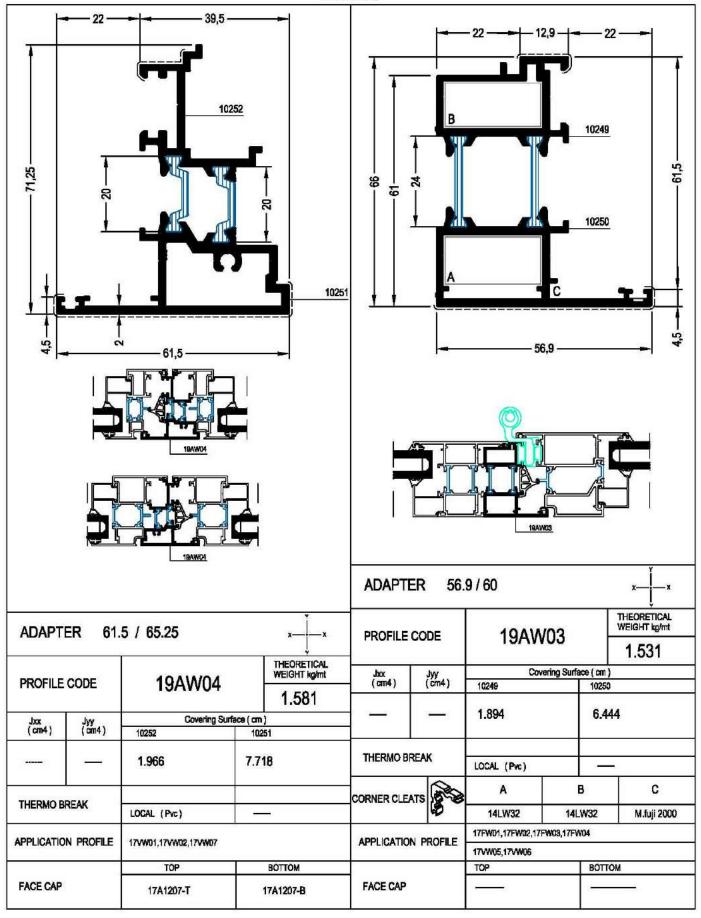
PROFILE CODE	14PW01	THEORETICAL WEIGHT kg/mt
FROFILE CODE	145 7701	0.190
Coating Surface (cm)	10.183	A





**PROFILE** 



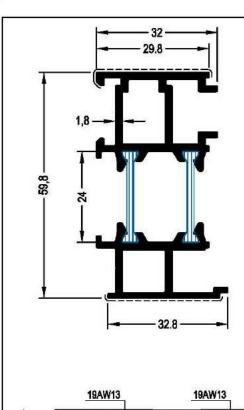


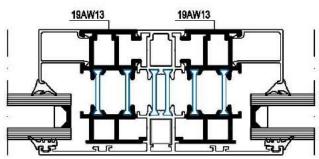
044.b

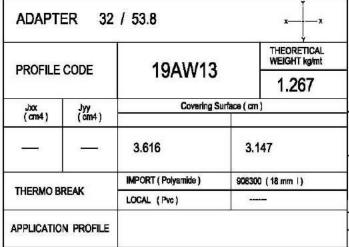


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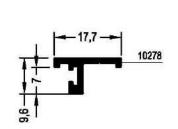


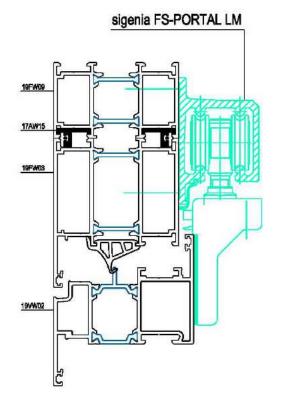






03 / 2006



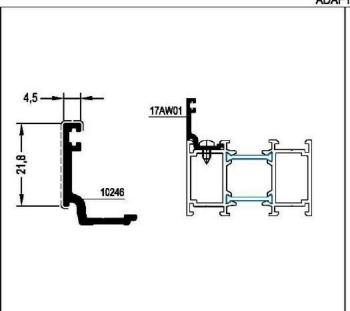


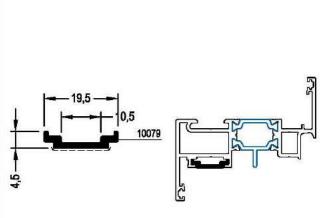
ADAPTER 17.7	/ / 9.6	
DDOE!! E CODE	17AW15	THEORETICAL WEIGHT kg/mt
PROFILE CODE	TIAWID	0.137
	Covering Surface ( cm )	



### **PROFILE**

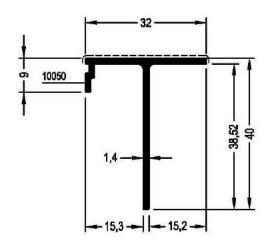


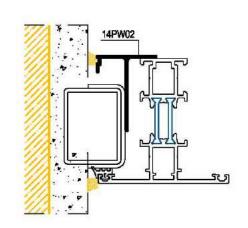




ADAPTER 4,5 / 21.8

DROEILE CODE	17414/01	THEORETICAL WEIGHT kg/mt	SLIDING ROAD F	PROFILE	
PROFILE CODE	17AW01	0.234	PROFILE CODE	14IW01	THEORETICAL WEIGHT kg/mt
	Covering Surface ( cm )		T NOTICE GODE	1410001	0.105
	3.014				-2



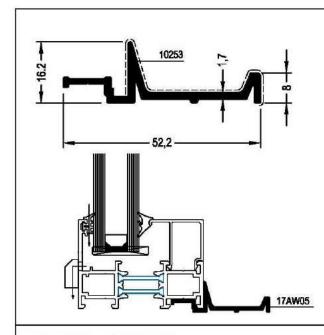


T PROFILE			
PROFILE CODE	14PW02	THEORETICAL WEIGHT kg/mt	
	171 1102	0.321	
	Covering Surface ( cm )		
	3.508		



**PROFILE** 







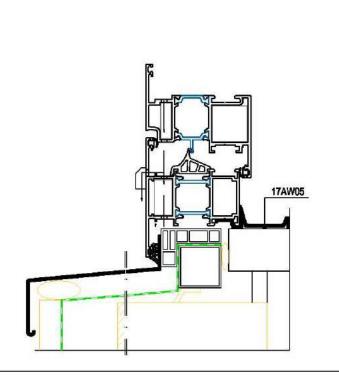
PROFILE CODE

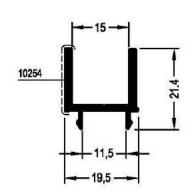
17AW05

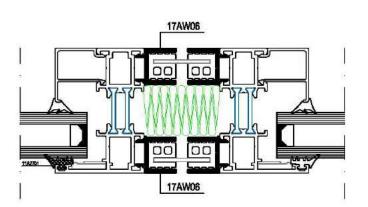
THEORETICAL WEIGHT kg/mt

Covering Surface (cm)

7.082



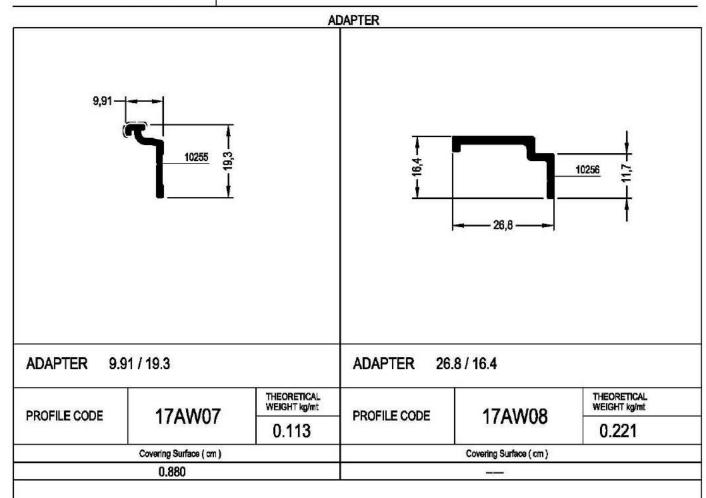


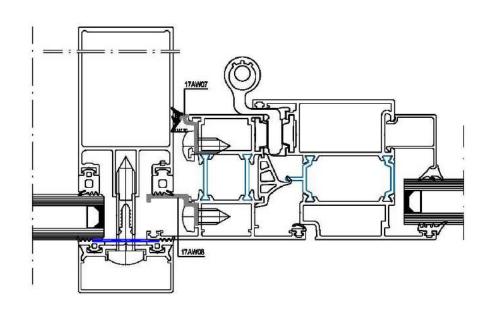


ADAPTER 19.	5 / 21.4	
DROCK CODE	47414106	THEORETICAL WEIGHT kg/mt
PROFILE CODE	17AW06	0.278
	Covering Surface (cm)	
	2.127	



**PROFILE** 

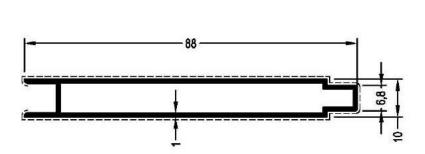






**PROFILE** 

### ADAPTER

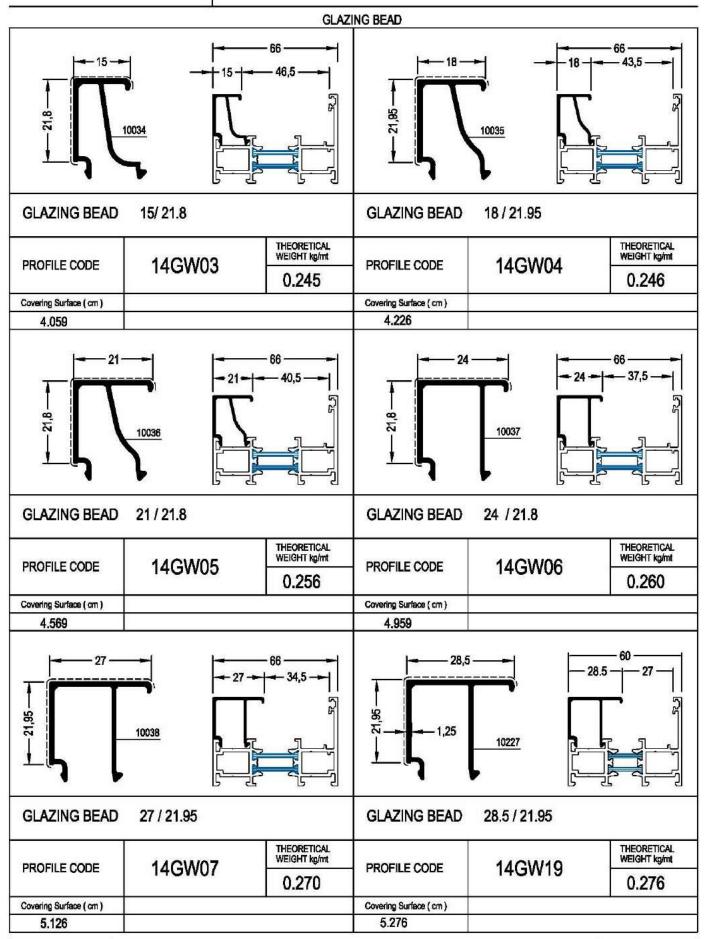


ADAPTER 10	88	
PROFILE CODE	1274	THEORETICAL WEIGHT kg/mt
PROFILE CODE	12/4	0.524
	Covering Surface (cm)	2.02
	16.536	

1:1



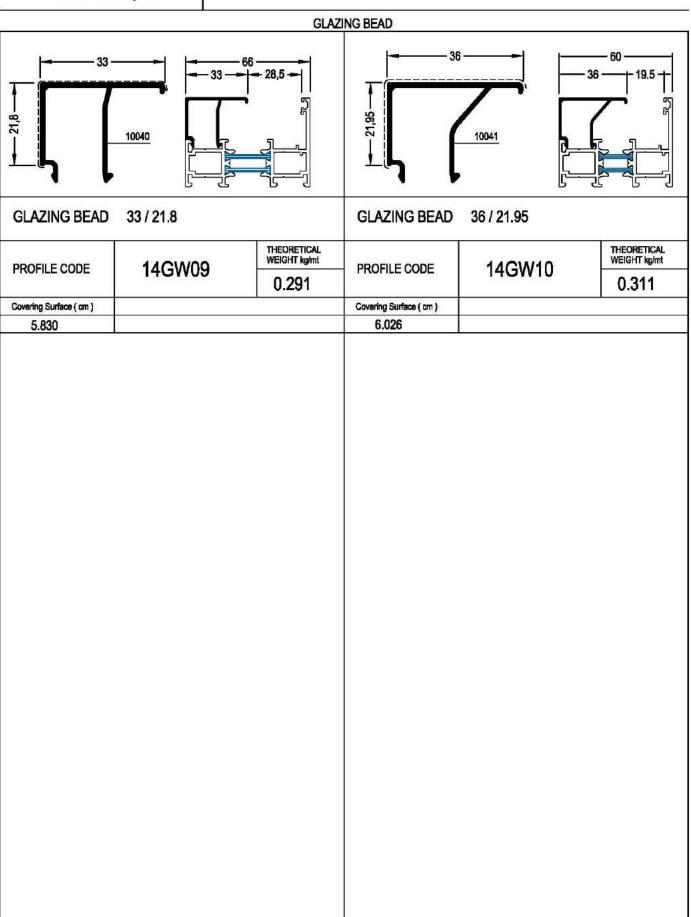
**PROFILE** 



03/2006



### **PROFILE**



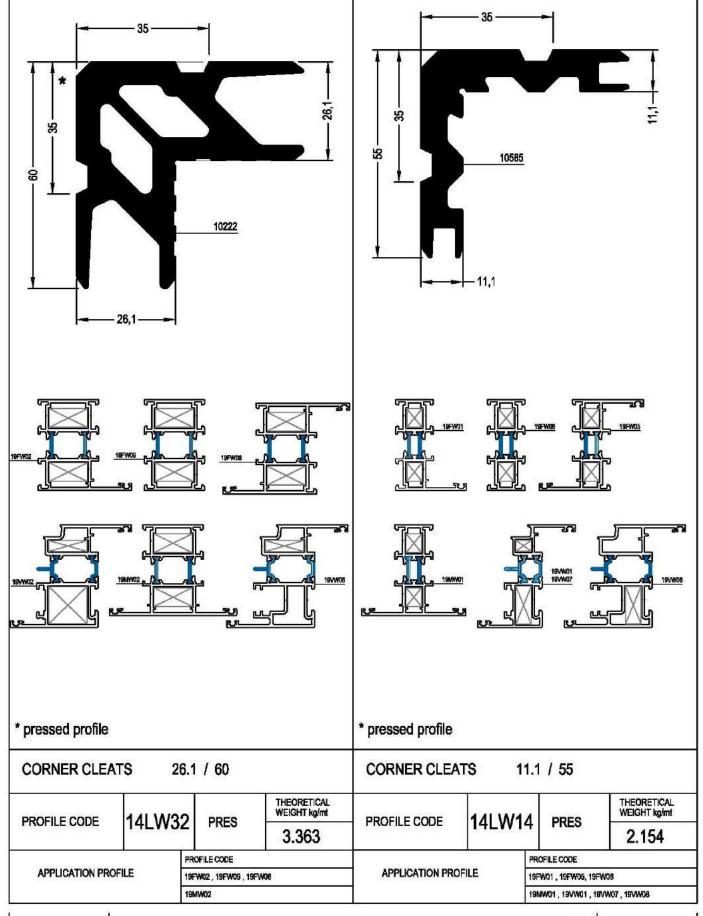
Scale

1:1



**PROFILE** 

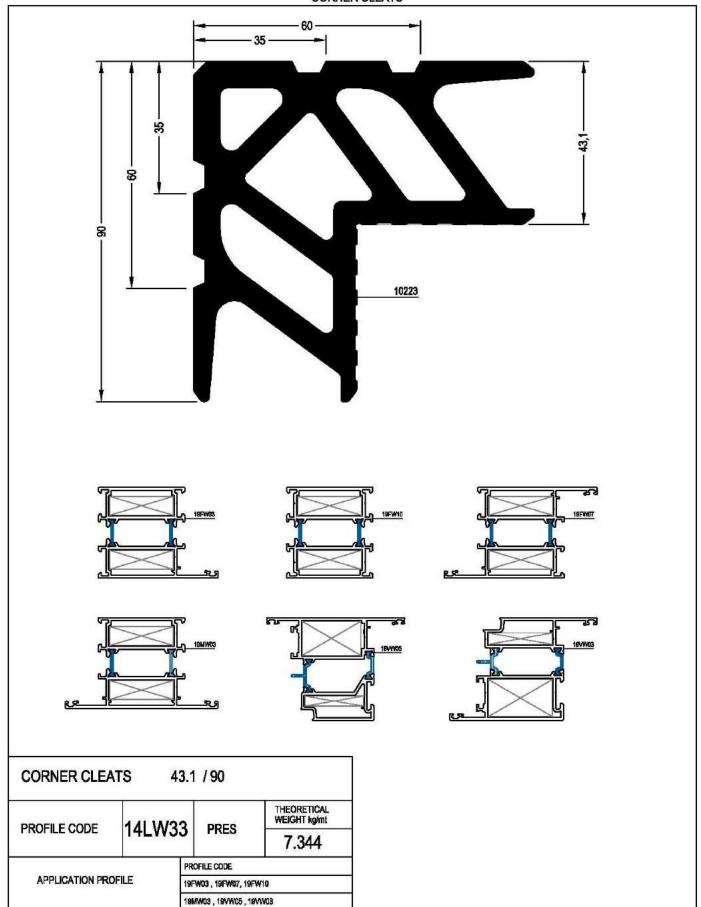
### **CORNER CLEATS**





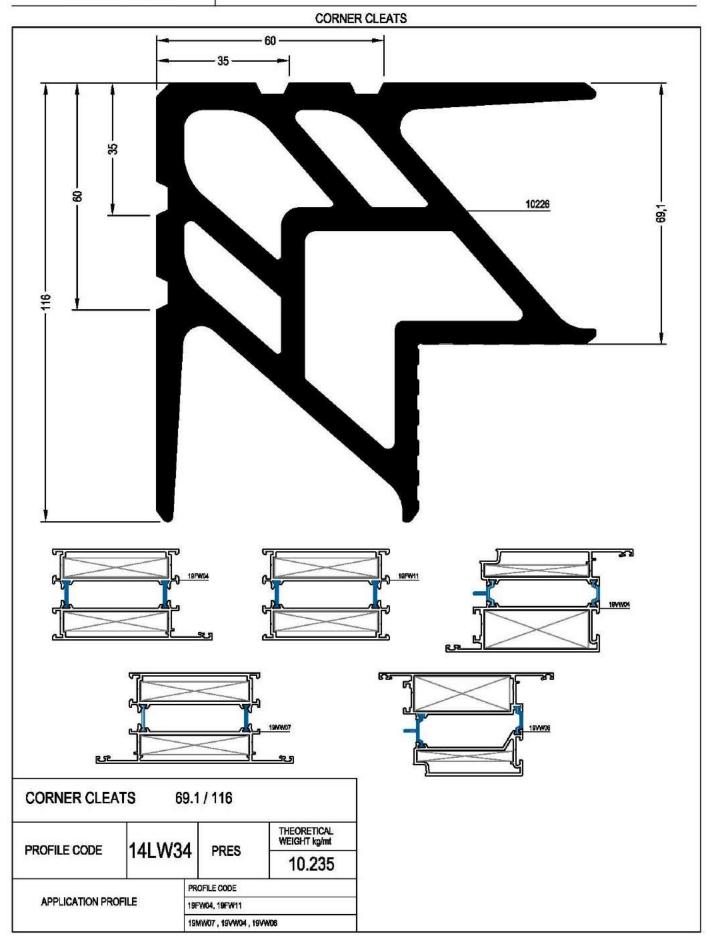
**PROFILE** 

### CORNER CLEATS



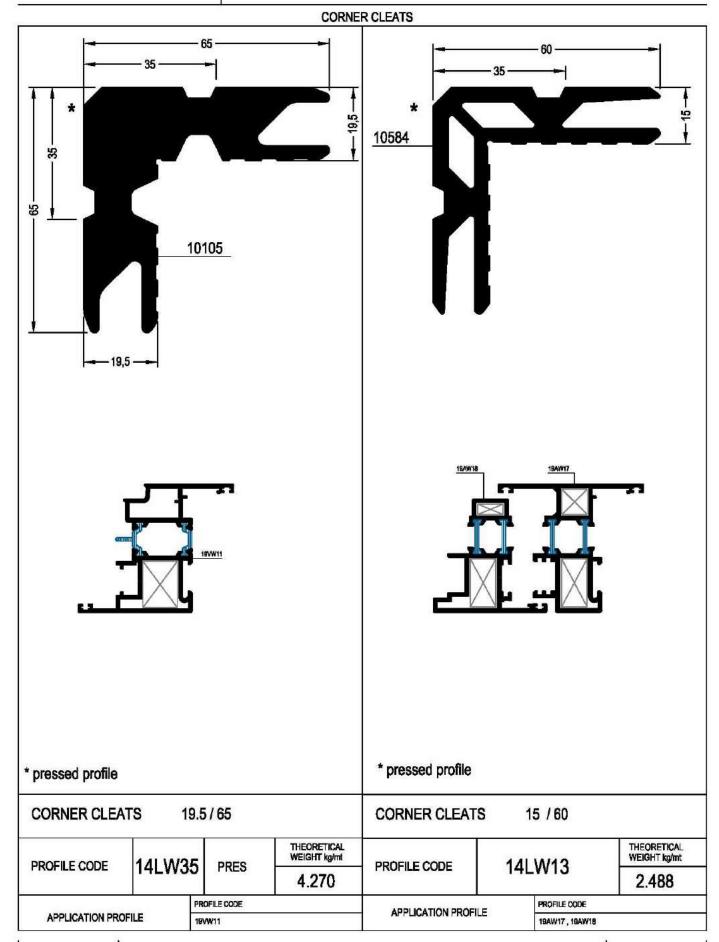


**PROFILE** 





**PROFILE** 

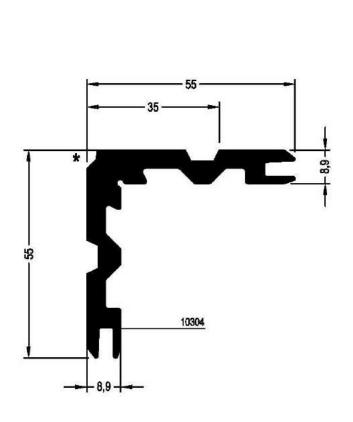


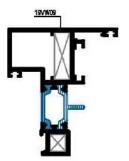
Scale



**PROFILE** 

### CORNER CLEATS



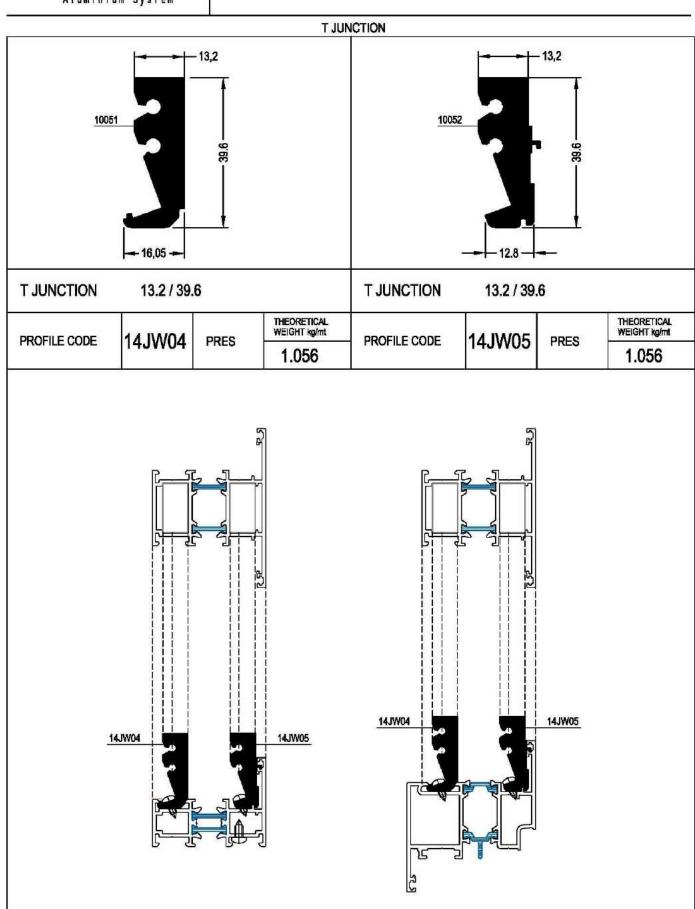


# \* pressed profile

PROFILE CODE	14LW45	PRES	THEORETICAL WEIGHT kg/mt
	146443		1.672



### **PROFILE**





10066

**T JUNCTION** 

-- 16,5 ---

16,04

16.5 / 39.6

# SYSTEM CASTLE 19'66 W+

**PROFILE** 

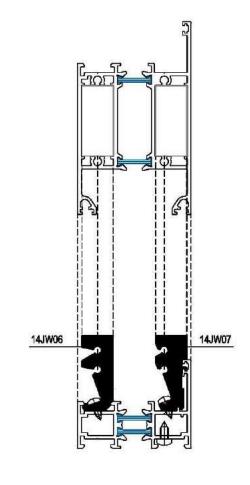
# 10067 10.8

16.5 / 39.6

PROFILE CODE 14JW06 PRES THEORETICAL WEIGHT kg/mt 1.164

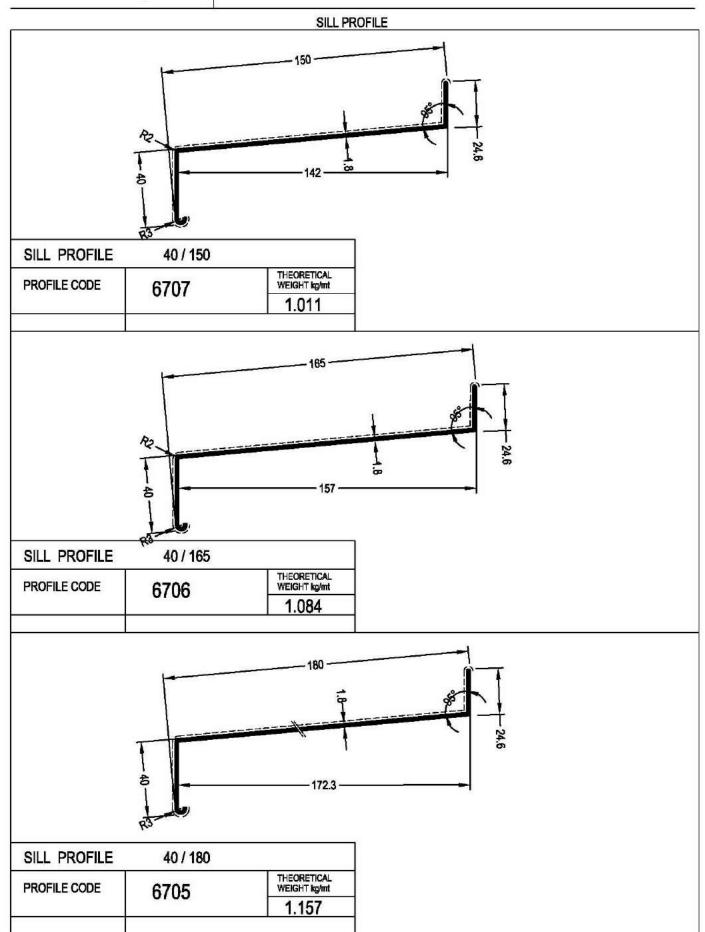
THEORETICAL WEIGHT kg/mt 1.170

T JUNCTION



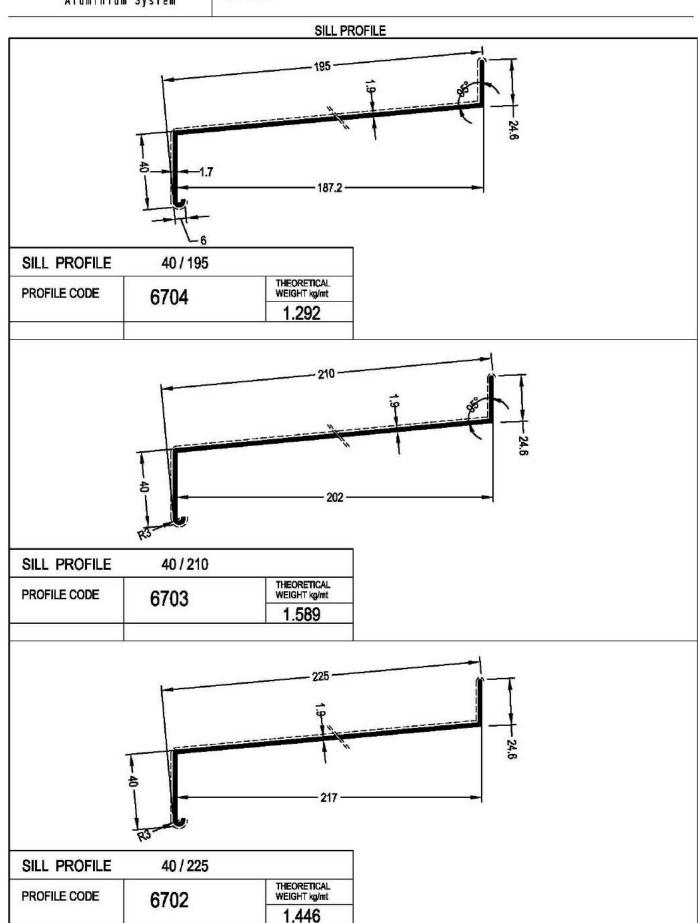


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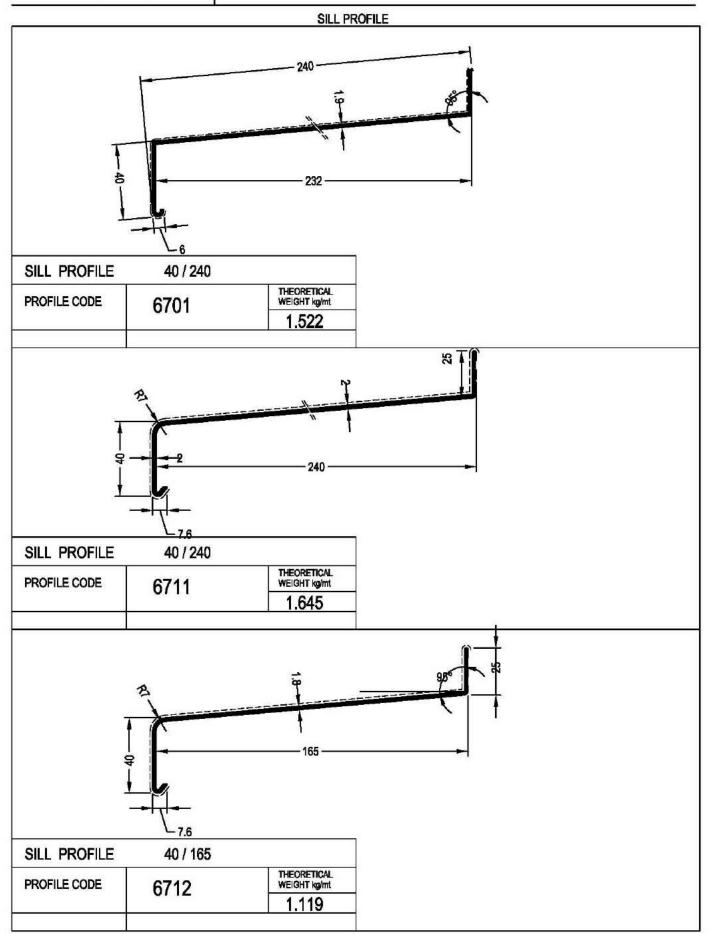


**PROFILE** 



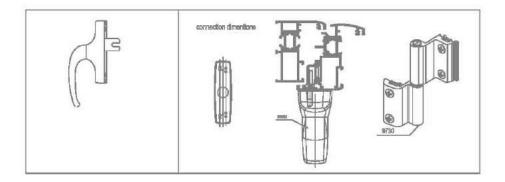


**PROFILE** 





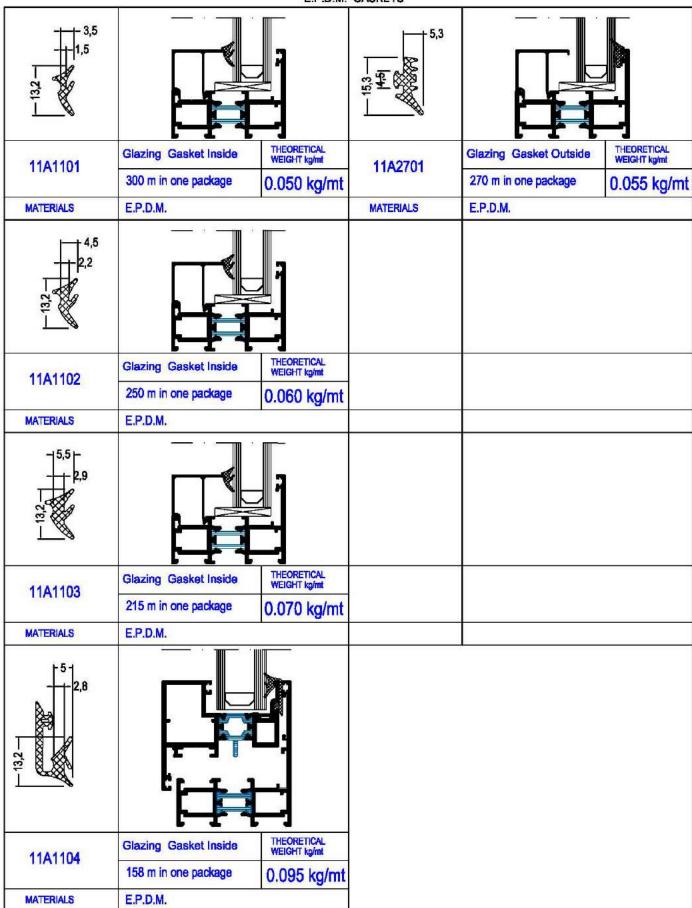
# c - ACCESSORIES





#### **ACCESSORIES**

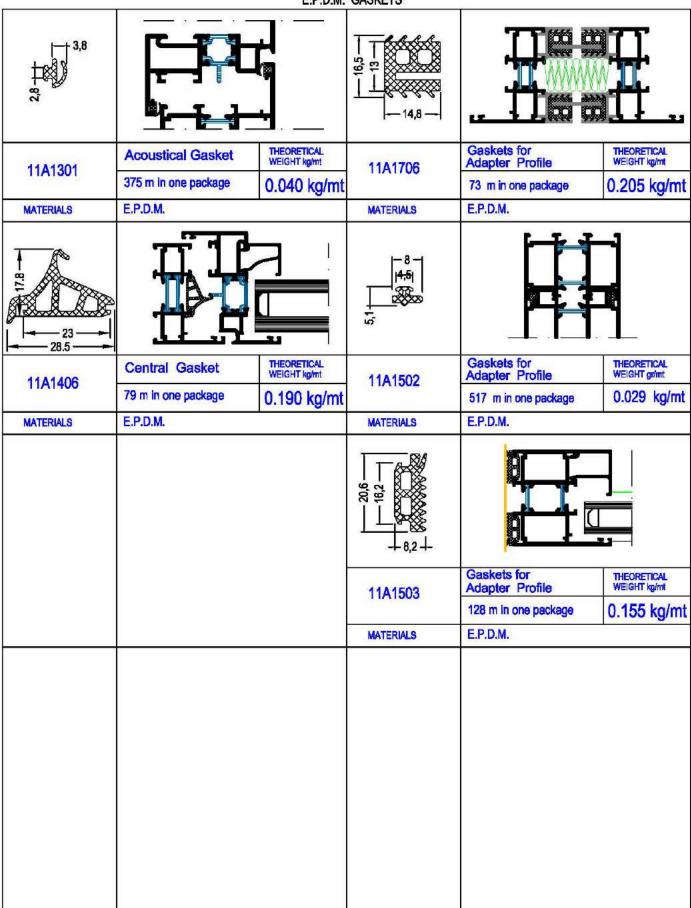
#### E.P.D.M. GASKETS





**ACCESSORIES** 

#### E.P.D.M. GASKETS





#### **ACCESSORIES**

#### **CORNER CLEATS**

#### **APPLICATION** DRAWING / INFORMATION 55 35 \* pressed profile **CORNER CLEATS WITH PRES** 11.1 / 55 THEORETICAL WEIGHT kg/mt PROFILE CODE 14LW14 **PRES** 2.154 PIECE CODE APPLICATION PROFILES Cutting Sizes (mm) NUMBER 10200 19FW01 13.3 mm 10201 10200 19FW05 13.3 mm 10200 10201 19FW08 13.3 mm 10201 10201 19FW13 13.3 mm 10272 8.0 mm 10207 19VW01 25.4 mm 10206 8.4 mm 10228 19VW07 26.0 mm 10224 10209 19VW08 10243 25.4 mm 10201 19MW01 13.3 mm 10225 10201 19MW14 13.3 mm x1



#### **ACCESSORIES**

#### **CORNER CLEATS**

#### **APPLICATION DRAWING / INFORMATION** \* pressed profile **CORNER CLEATS WITH PRES** 26.1 / 60 THEORETICAL WEIGHT kg/mt **PROFILE CODE** 14LW32 **PRES** 3.363 PIECE CODE Cutting Sizes (mm) **APPLICATION PROFILES** NUMBER 10203 19FW02 13.3 mm 10202 10202 19FW06 13.3 mm 10202 10203 19FW09 13.3 mm 10203 8.0 mm 10209 19VW02 10208 25.4 mm 8.0 mm 10209 19VW08 10243 10209 8.0 mm 19VW11 10280 10203 19MW02 13.3 mm 10214 12.3 mm 10249 19AW03 13.3 mm 10250



#### **ACCESSORIES**

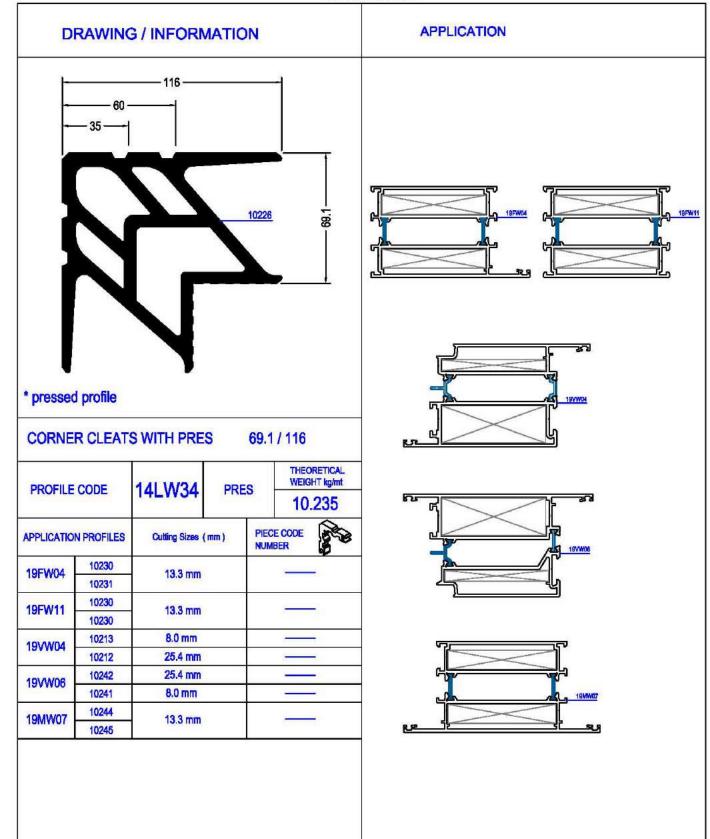
#### **CORNER CLEATS**

#### **APPLICATION DRAWING / INFORMATION** 90 -- 60 -35 10223 \* pressed profile **CORNER CLEATS WITH PRES** 43.1/90 THEORETICAL WEIGHT kg/mt 14LW33 PROFILE CODE **PRES** 7.344 PIECE CODE APPLICATION PROFILES Cutting Sizes (mm) NUMBER 10205 19FW03 13.3 mm 10204 10204 19FW07 13.3 mm 10204 10205 19FW10 13.3 mm 10205 8.0 mm 10211 19VW03 25.4 mm 10210 10240 25.4 mm 19VW05 10239 8.0 mm 10205 19MW03 13.3 mm 10215

1:1

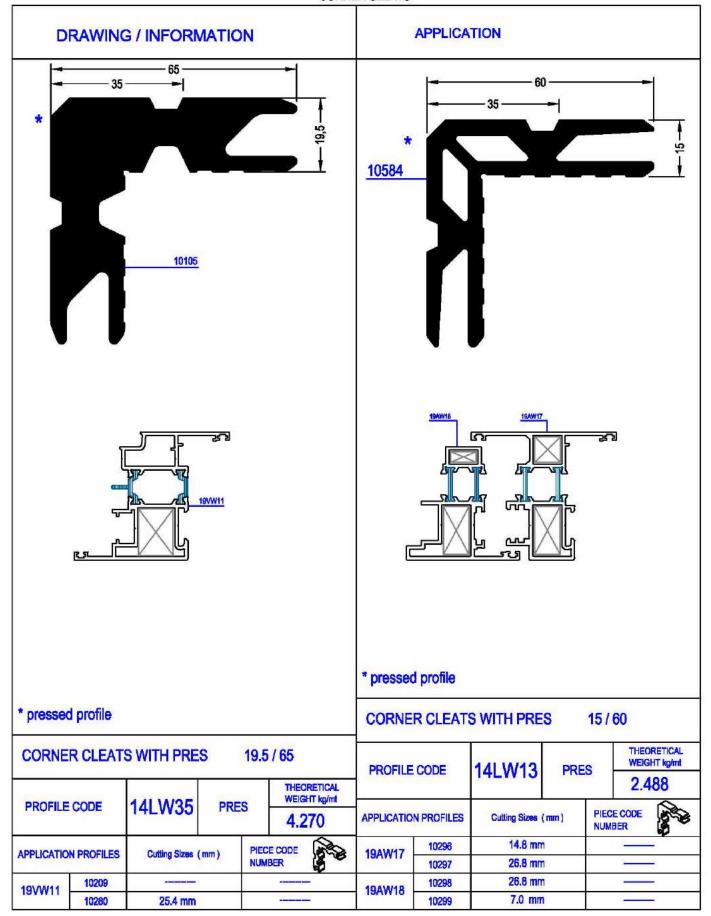


#### **ACCESSORIES**





#### **ACCESSORIES**



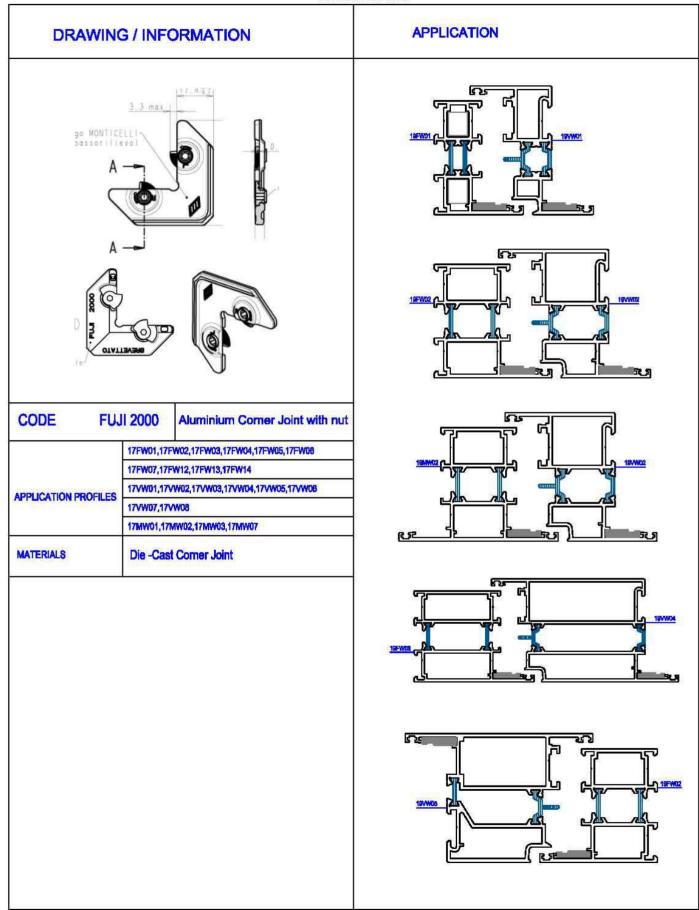


**ACCESSORIES** 

			CORNER	RCLEATS
DRAWING / INFORMATION			ON .	APPLICATION
* pressec		S WITH PRES	08.9 / 55	
PROFILE	CODE	14LW45 PRE	THEORETICAL WEIGHT kg/mt 1.672	19YW03
APPLICATIO	N PROFILES	Cutting Sizes (mm)	PIECE CODE NUMBER	
19VW09	10270	09.5 mm		
	10271	25.4 mm		

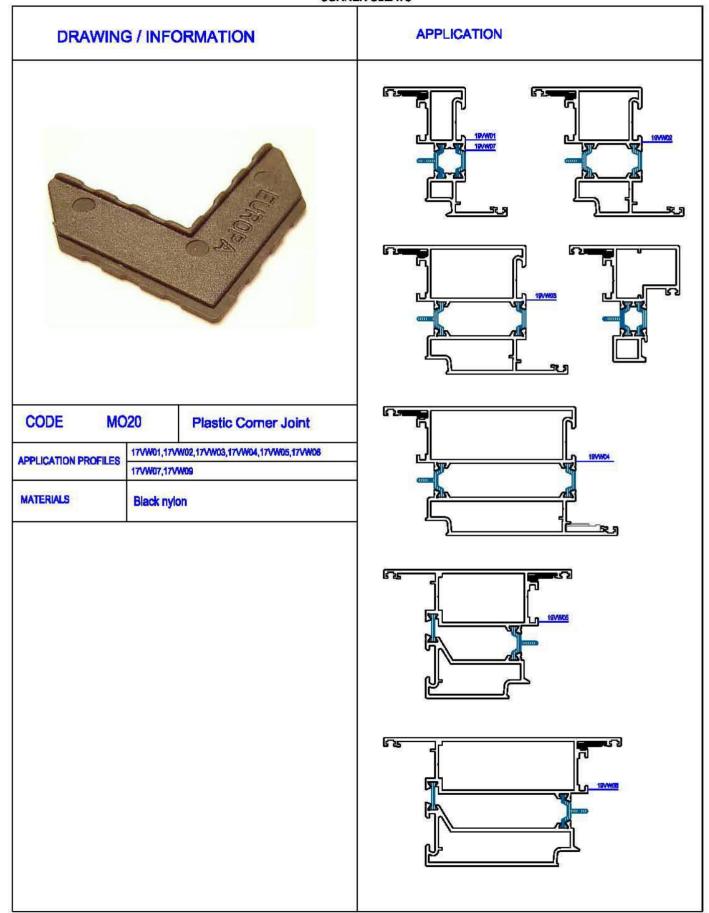


#### **ACCESSORIES**





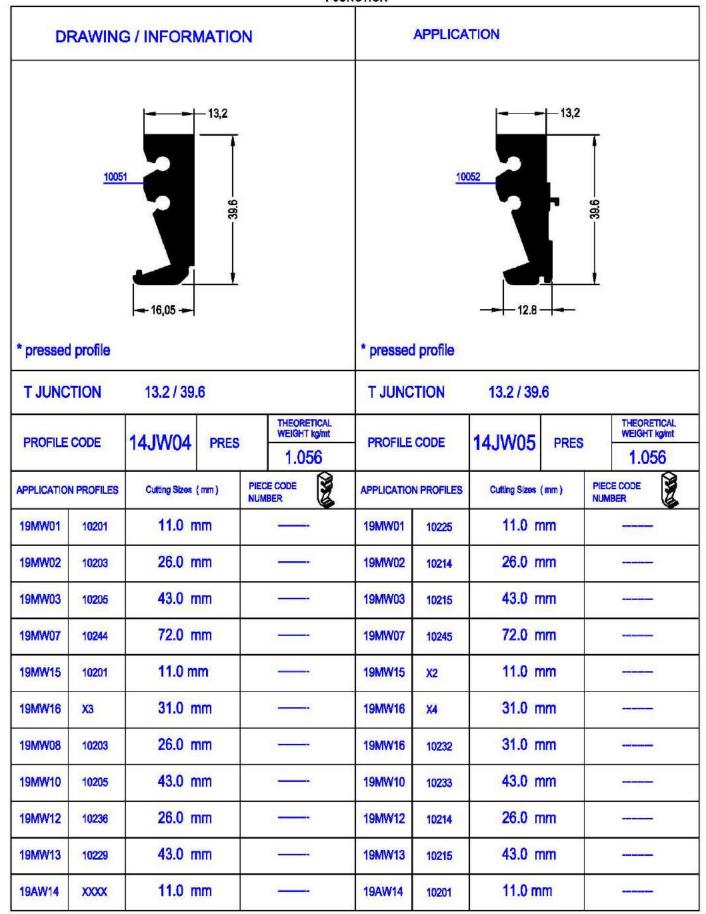
**ACCESSORIES** 





#### **ACCESSORIES**

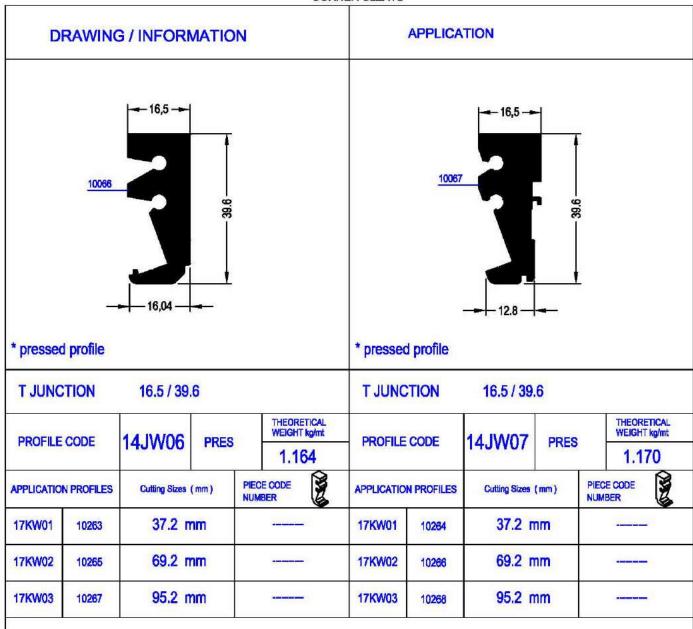
#### **T JUNCTION**





#### **ACCESSORIES**

#### **CORNER CLEATS**



1:1



#### **ACCESSORIES**

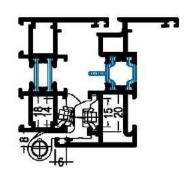
#### **HINGES APPLICATION** DRAWING / INFORMATION ≤ 50 kg 50 kg - 70 kg CODE 14A1701 Window Hinge COLOURS White (RAL 9016), Black (RAL 9005) Anodized silver **ROTO FRANK** Black nylon bush , Hinges in extruded aluminium MATERIALS Galvenized steel pin Galvenized die cast zinc alloy 2 hinges : 50 kg **CAPACITIES** 3 hinges: 70 kg Diagramm 50 kg Diagramm 70 kg Glass weight kg/m<sup>2</sup> 2250 2250 2200 2100 2000 1900 1800 1800 1700 1700 1600 1600 1500 1500 1400 1400 1300 1300 FH 520 mm - 2250 mm -2250 mm 1200 1200 1100 1100 1000 1000 900 900 FH 520 mm 800 520 700 500 600 700 800 900 1100 1200 1300 600 520 400 500 600 700 800 900 1100 1200 1300 - FB 400 mm - 1400 mm - FB 400 mm - 1400 mm

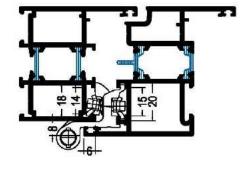


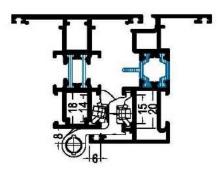
#### **ACCESSORIES**

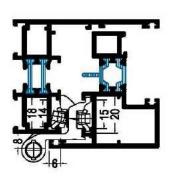
#### HINGES

## **APPLICATION DRAWING / INFORMATION** A STORY CODE 9730 Window Hinge 36,5 COLOURS White (RAL 9016), Black (RAL 9005) Hinges in extruded aluminium Black nylon bush MATERIALS Galvenized steel pin Galvenized die cast zinc alloy 2 hinges : 80 kg 3 hinges : 90 kg CAPACITIES





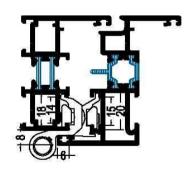


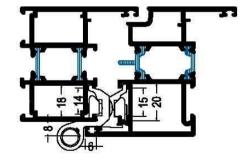


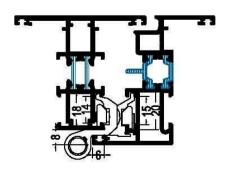


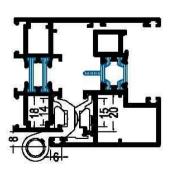
#### **ACCESSORIES**

# **HINGES APPLICATION DRAWING / INFORMATION** CODE M10 PR Window Hinge White ( RAL 9016 ) , Black ( RAL 9005 ) Electrostatic painted in RAL colours COLOURS 36,8 Anodized silver and bronze Hinges in extruded aluminium , 48 mm lenght Black nylon bush MATERIALS Galvenized steel pin Galvenized die cast zinc alloy , 46.5 mm lenght 2 hinges : 80 kg 3 hinges : 90 kg CAPACITIES











#### **ACCESSORIES**

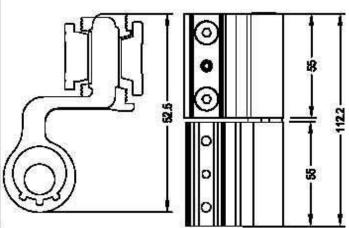


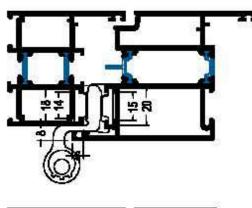
#### DRAWING / INFORMATION

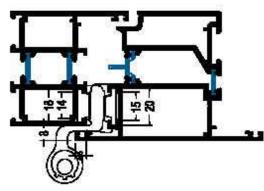


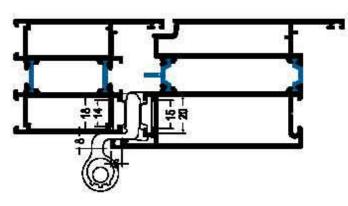


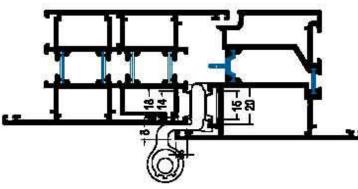
#### APPLICATION







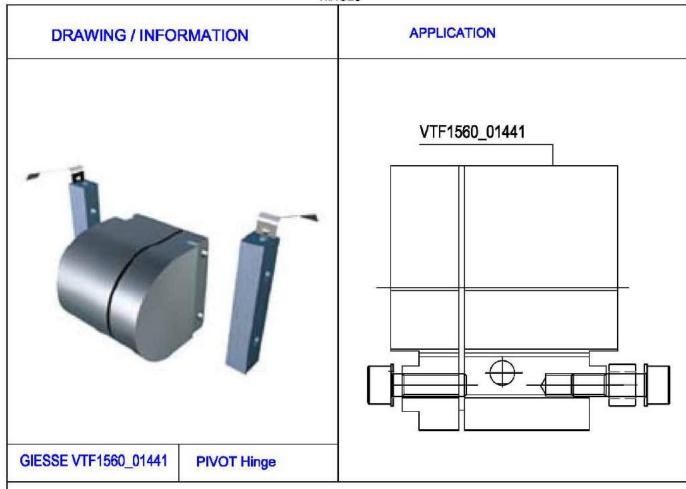


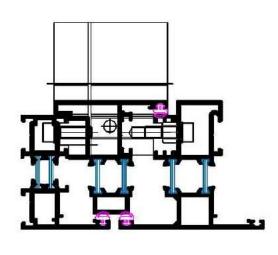




**ACCESSORIES** 





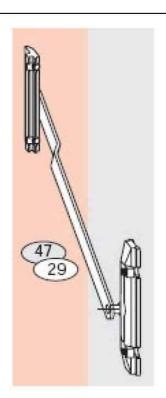




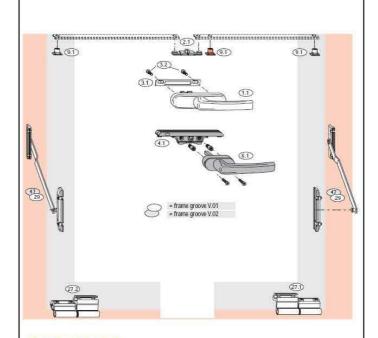
#### **ACCESSORIES**

#### **VASISTAS**

#### DRAWING / INFORMATION



#### APPLICATION



ROTO FRANK

CODE 14A1501

**Vasistas** 

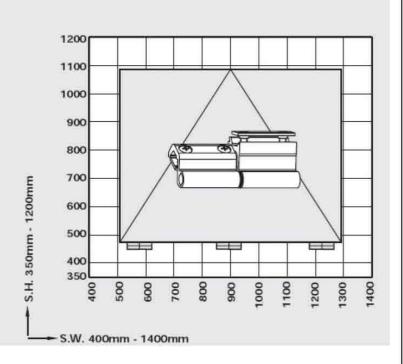
# $\Lambda$

#### 70kg

#### Limitation of sash formats

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

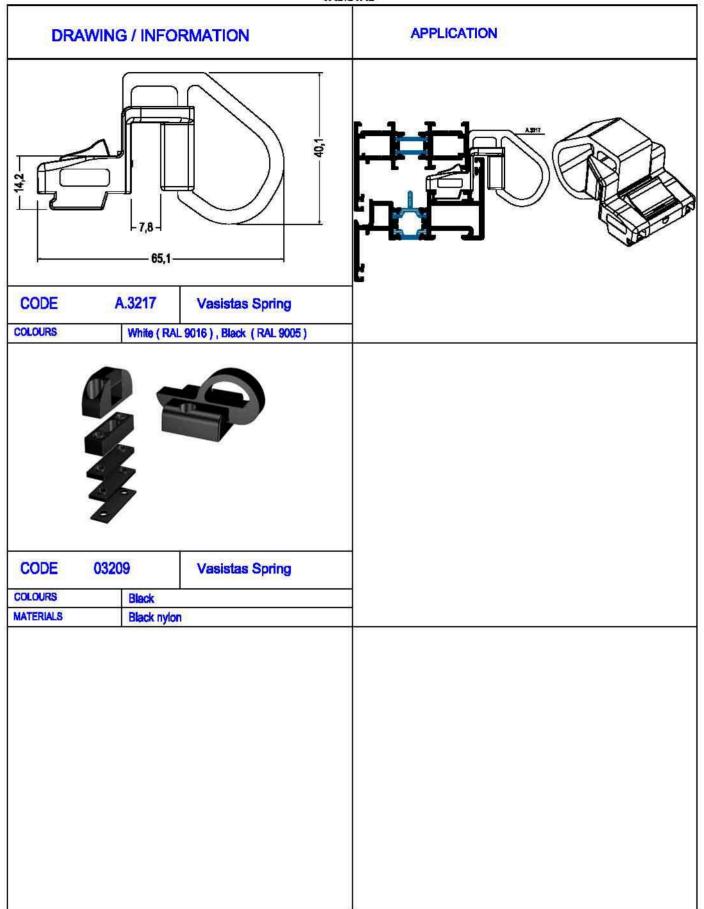
The information in the application diagram refers to the glass weight in kg/m².





#### **ACCESSORIES**





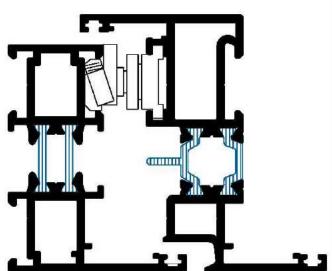


**ACCESSORIES** 

#### **VASISTAS**

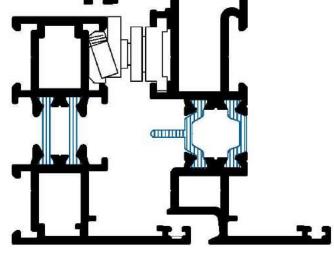
**APPLICATION** 

# CODE 3207 Vasistas Colours Natural , Anodized silver and bronze







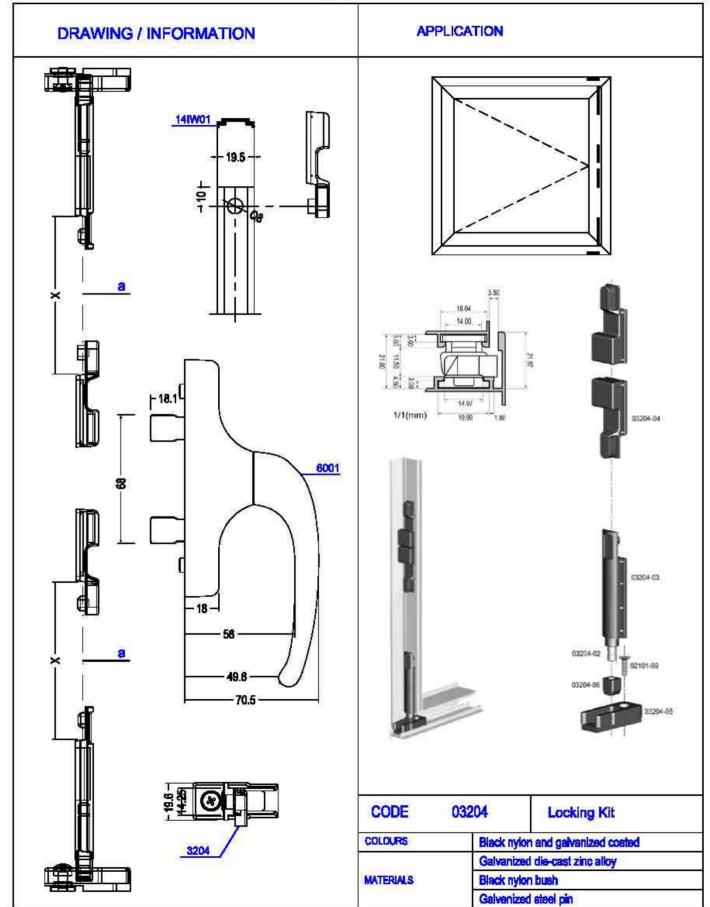


CODE	ERT1861	Vasistas		
COLOURS	Natural,	Natural , Anodized silver and bronze Electrostatic painted in RAL colours		
COLOURS	Electrosta			



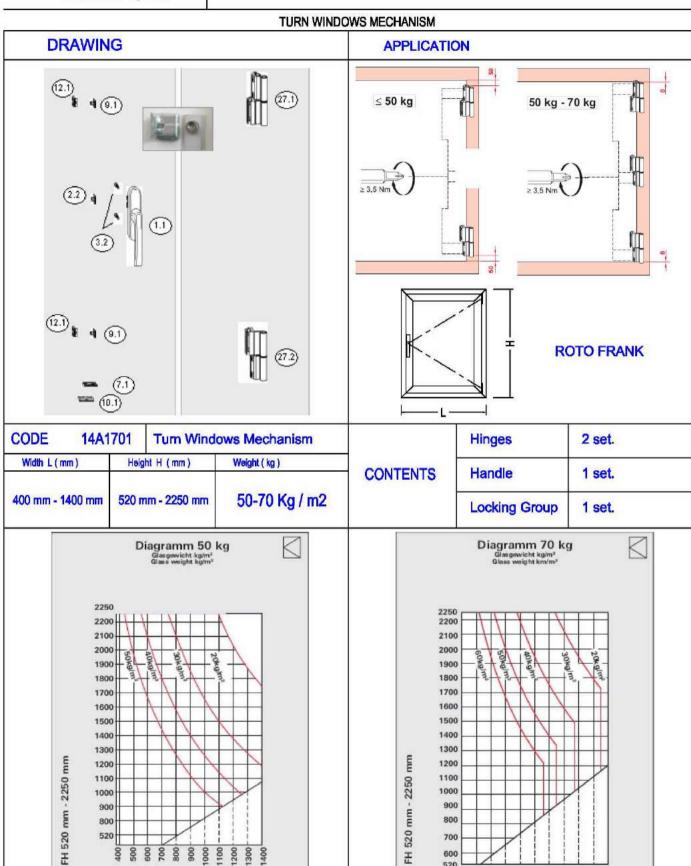
#### **ACCESSORIES**

#### LOCKING KIT





#### **ACCESSORIES**



1000 1100 1200 1300

FB 400 mm - 1400 mm

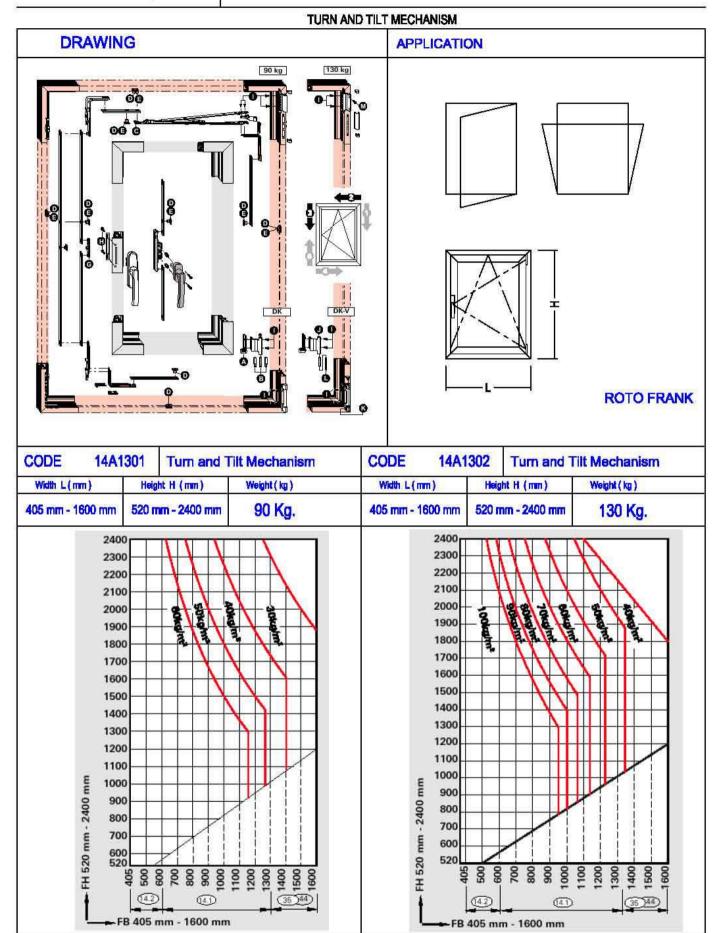
520

500 600 700 800 900

FB 400 mm - 1400 mm



#### **ACCESSORIES**

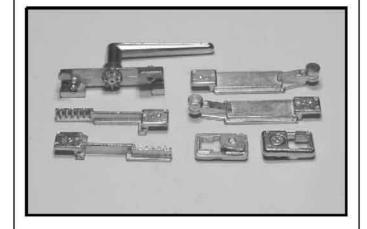




**ACCESSORIES** 

#### DRAWING / INFORMATION

#### APPLICATION



MO 22.02

Window Bolt



MO 22.01

Window Bolt

CODE

CODE



#### **ACCESSORIES**

#### HANDLES

DRAWING / INFORMATION			APPLICATION			
		ROTO FRANK			ROTO FRANK	
CODE	14A1101	Window Handle	CODE	14A1102	Window Handle	
COLOURS White (RAL 9016) Black (RAL 9005)		AL 9005)	COLOURS	Black (R/	White (RAL 9016) Black (RAL 9005) Anodized silver	
MATERIALS	Anodized silver Die-cast aluminium aloy Die-cast zinc aloy Black nylon		MATERIALS		luminium aloy nc aloy	



#### **ACCESSORIES**

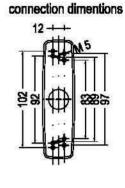
#### **HANDLES**

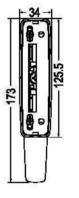
# DRAWING / INFORMATION

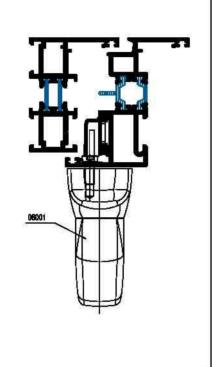


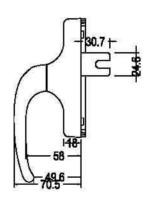
CODE	6001	Window Handle		
	White (	White (RAL 9016)		
COLOURS	Black	Black (RAL 9005)		
	Electro	Electrostatic painted in RAL colours		
	Die-cas	Die-cast aluminium aloy		
MATERIALS	Die-cas	Die-cast zinc aloy		
	Black	Black nylon		

#### APPLICATION



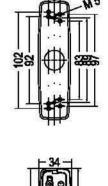




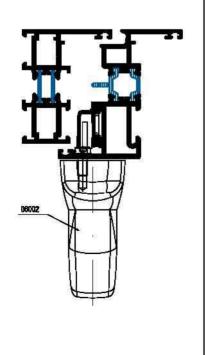


CODE	6002	Window Handle	
VI	White (	White (RAL 9016)	
COLOURS	Black (RAL 9005)		
	Electrostatic painted in RAL colours		
	Die-cas	Die-cast aluminium aloy	
MATERIALS	Die-cast zinc aloy		
	Black nylon		











**ACCESSORIES** 

#### HANDLES

# **APPLICATION DRAWING / INFORMATION** 0790B CODE 0790B Window Handle White ( RAL 9016 ) COLOURS Black (RAL 9005) Die-cast aluminium aloy MATERIALS Die-cast zinc aloy Black nylon 760B CODE 0760B Window Handle White ( RAL 9016 ) COLOURS Black (RAL 9005) Die-cast aluminium aloy MATERIALS Die-cast zinc aloy Black nylon



#### **ACCESSORIES**

#### DOOR HANDLES

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

Electrostatic painted in RAL colours, Anodized silver

Black (RAL 9005)



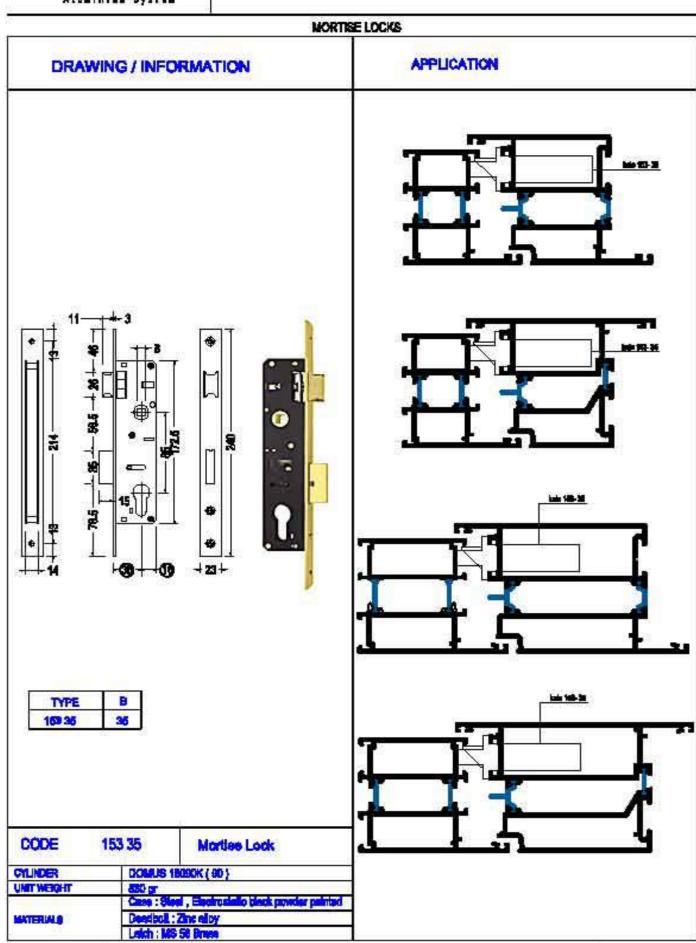
#### **ACCESSORIES**

# **COVERS APPLICATION DRAWING / INFORMATION** 4.5 80 - 700 ー7-I -10,2 80 H 08000-03 CODE **Drainage Cover** 30.9 Black , White COLOURS MATERIALS Black nylon PB-6 | PB-7 | PB-8 PB - 10 PB - 13 CODE Brush COLOURS Grey MATERIALS Black nylon

1:1



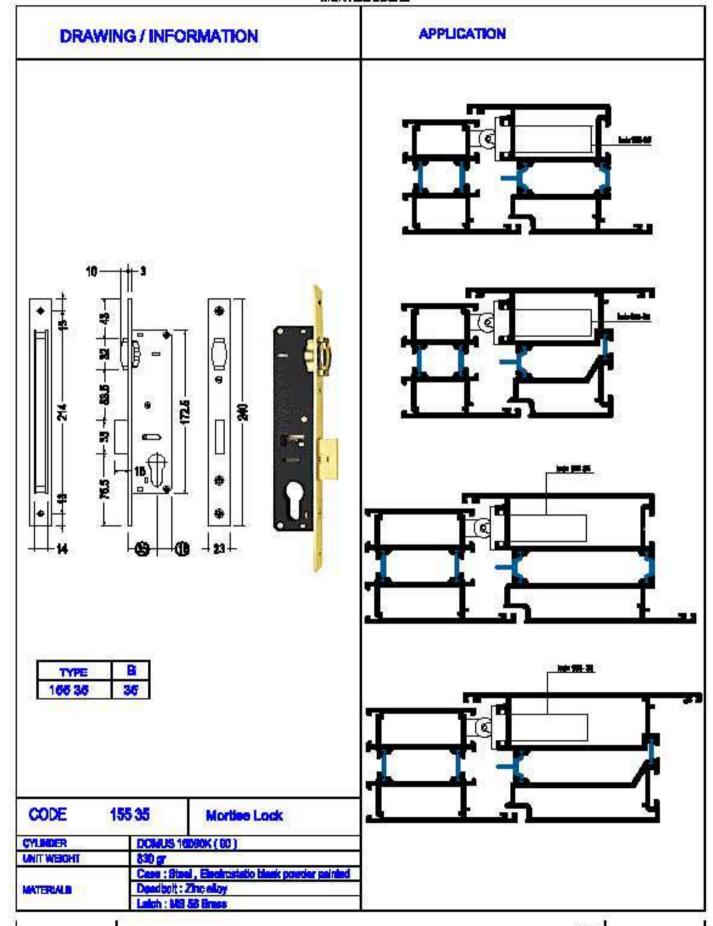
#### ACCESSORIES





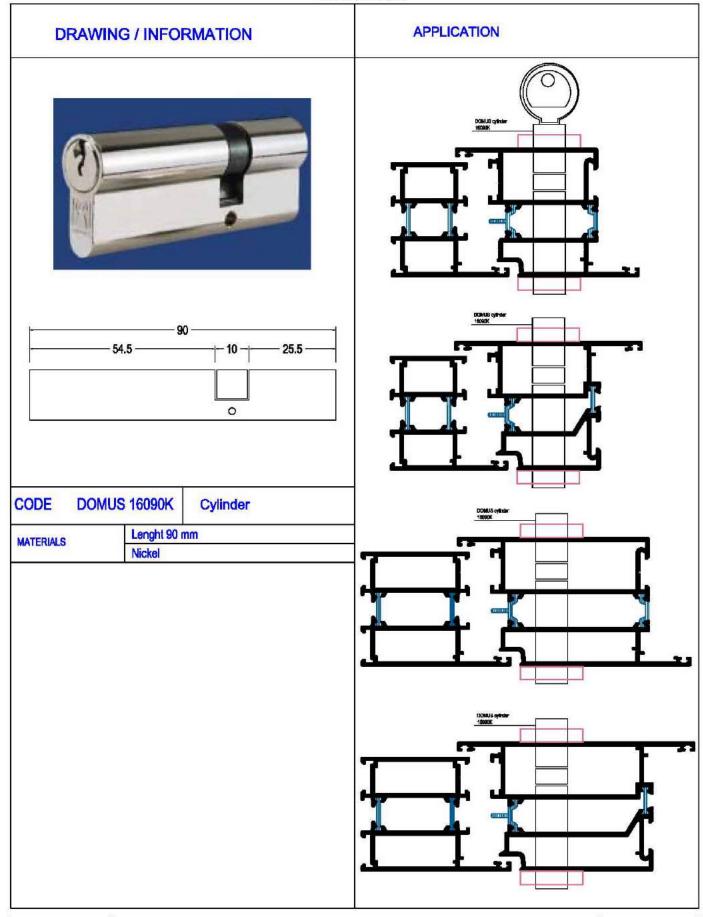
#### **ACCESSORIES**

#### MORTISE LOCKS



**ACCESSORIES** 







#### **ACCESSORIES**

#### MORTISE LOCKS

# **DRAWING / INFORMATION APPLICATION** Striking Plate CODE AA 03205 Chomized steel, 206.5 mm lenght MATERIALS Black nylon bush 33 -CODE

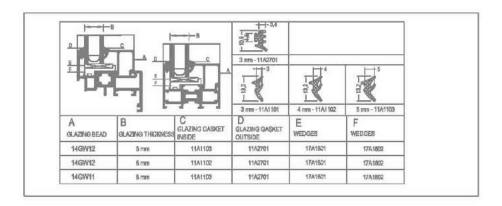


#### ACCESSORIES

DRAWING / INFORMATION		APPLICATION		
CODE GEZE TS 1000		CODE	2215	Bolt

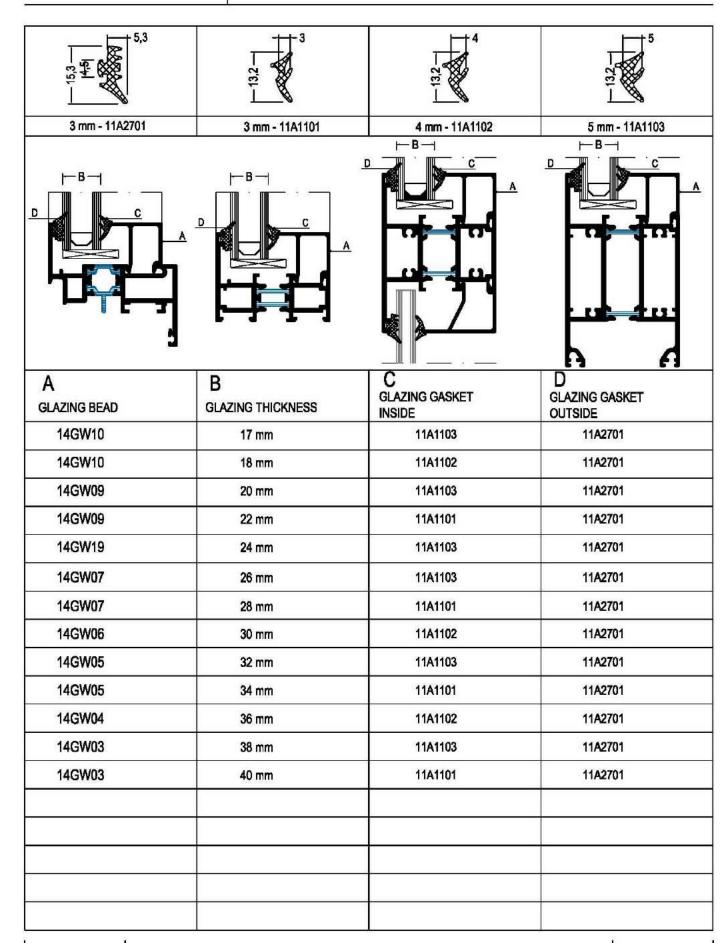
**INDEX** 

## d - TABLE

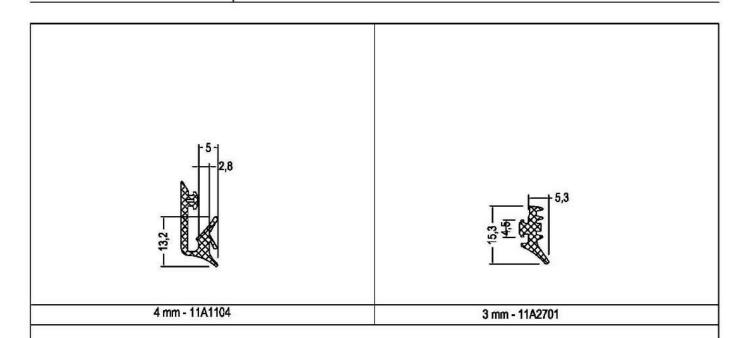


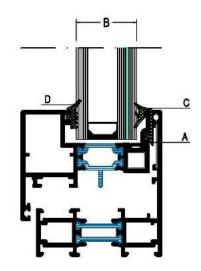


#### **GLAZING TABLE**



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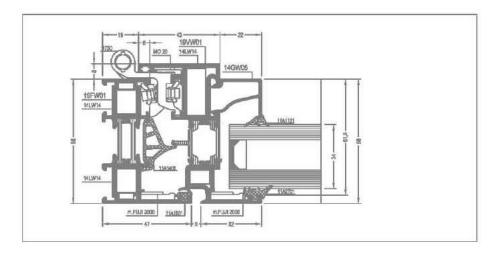




A GLAZING BEAD	B GLAZING THICKNESS	C GLAZING GASKET INSIDE	D GLAZING GASKET OUTSIDE
14GW20	26 mm	11A1104	11A2701

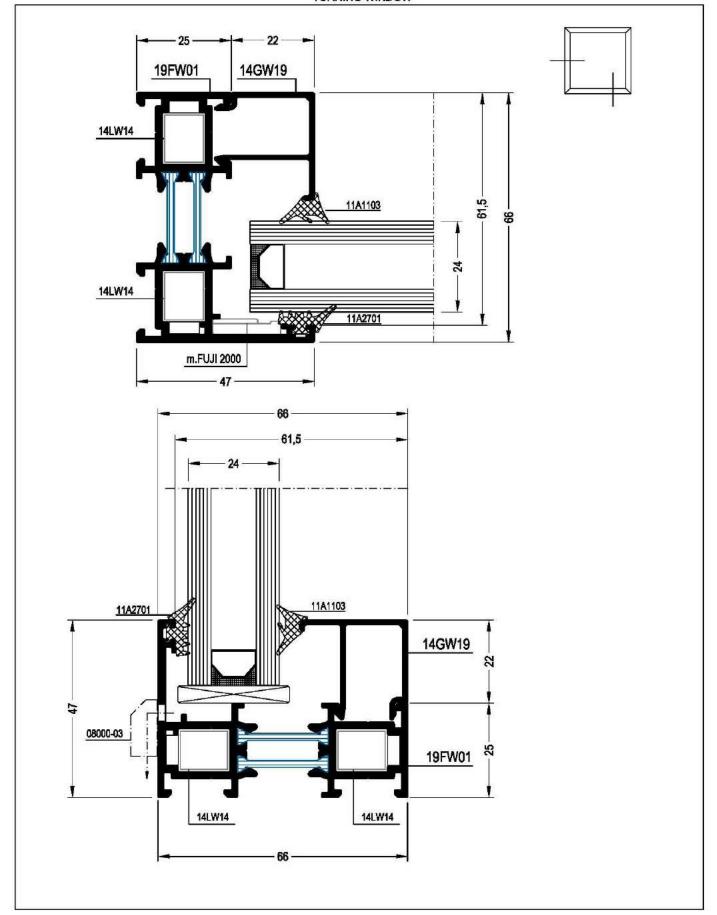


## e - DETAILS





**DETAILS** 



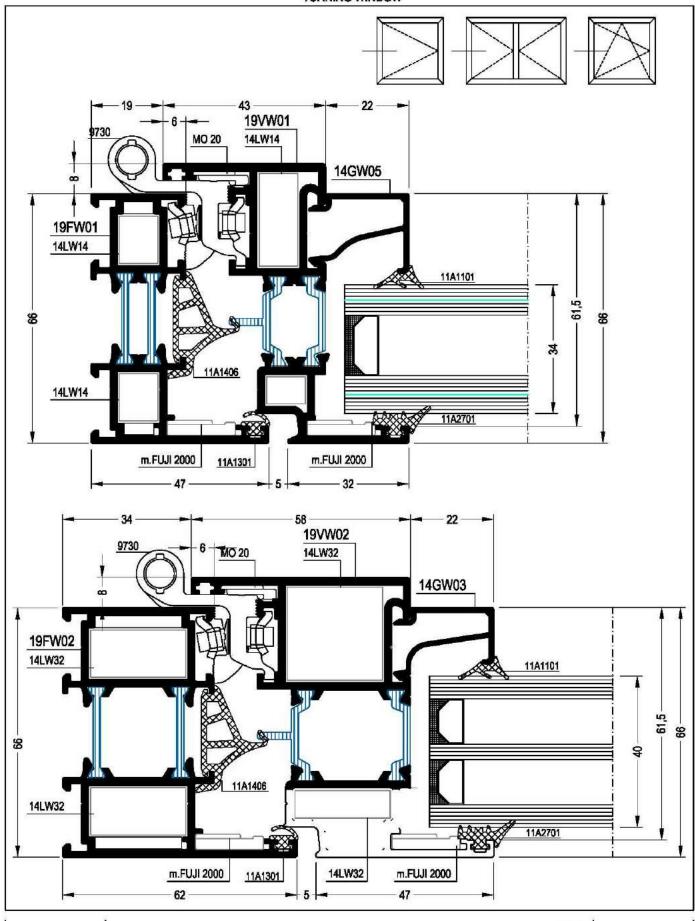


**DETAILS** 

## **TURNING WINDOW** silicone 14PW02 19MW01 14GW06 14LW14 11A1102 61,5 30 x 40 x 2 mm frame 8 p.v.c. U profile 8 11A2701 m.FUJI 2000 14LW14 11A2701 silicone 5.6 69 32 14PW02 14GW05 19FW01 14LW14 11A1103 30 x 40 x 2 mm frame 99 33 11A2701 17AW01 14LW14 m.FUJI 2000 11A2701 silicone 5.6 69

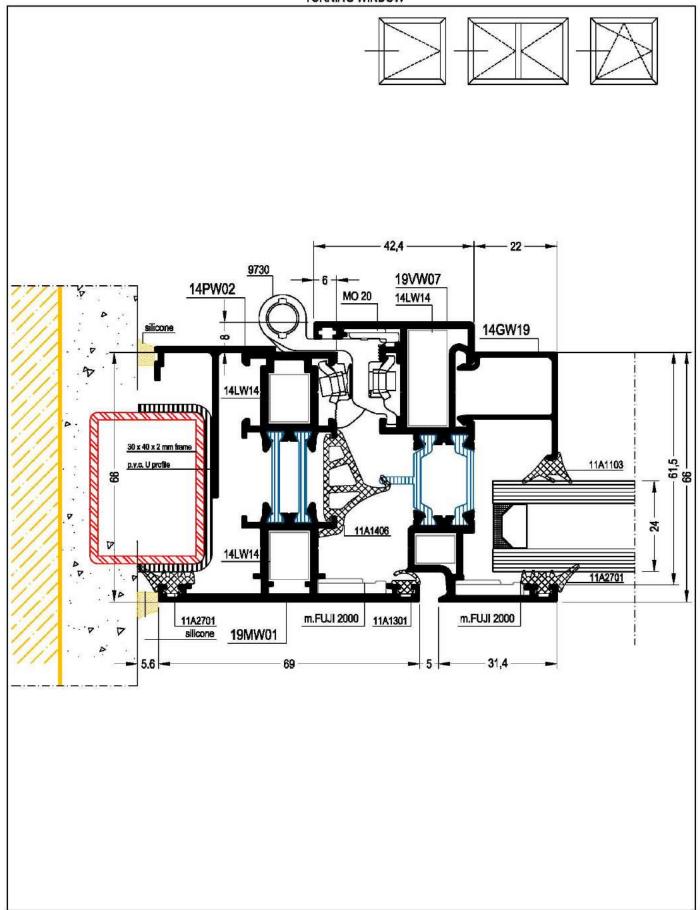


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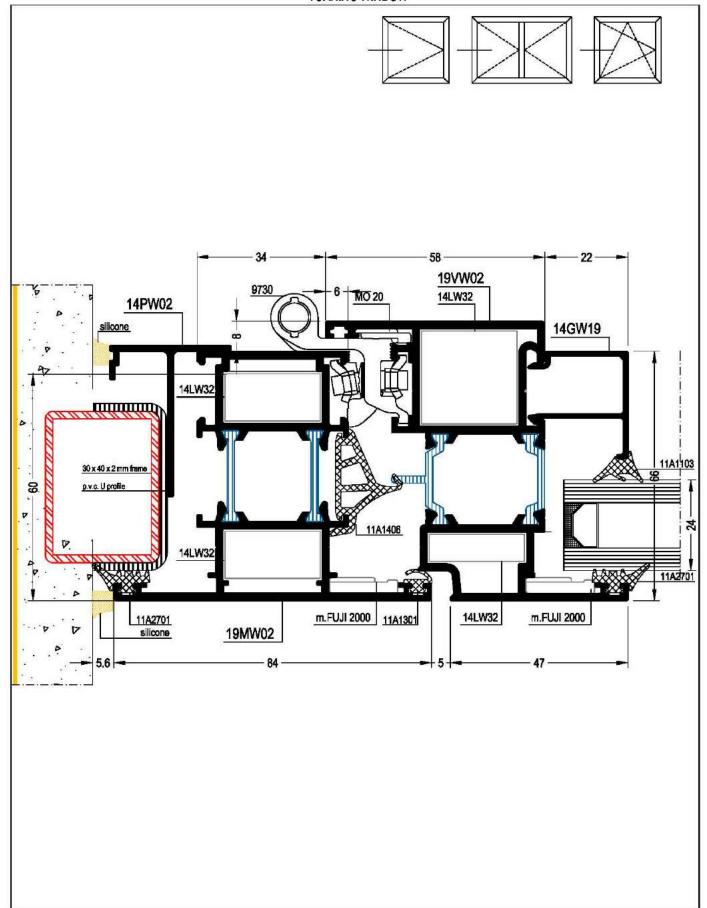


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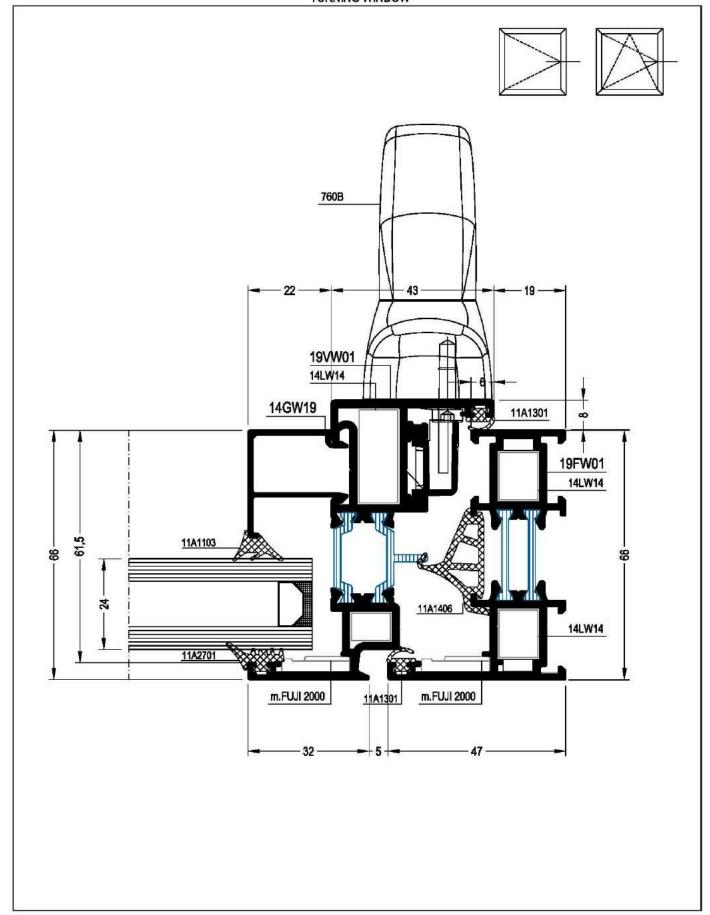
**DETAILS** 





**DETAILS** 

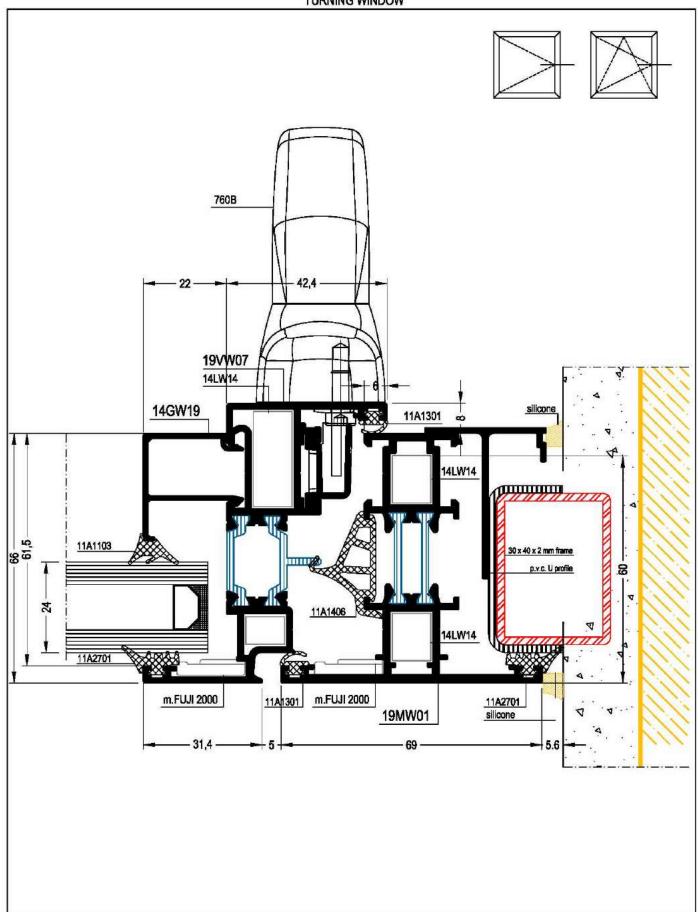
#### **TURNING WINDOW**



1:1

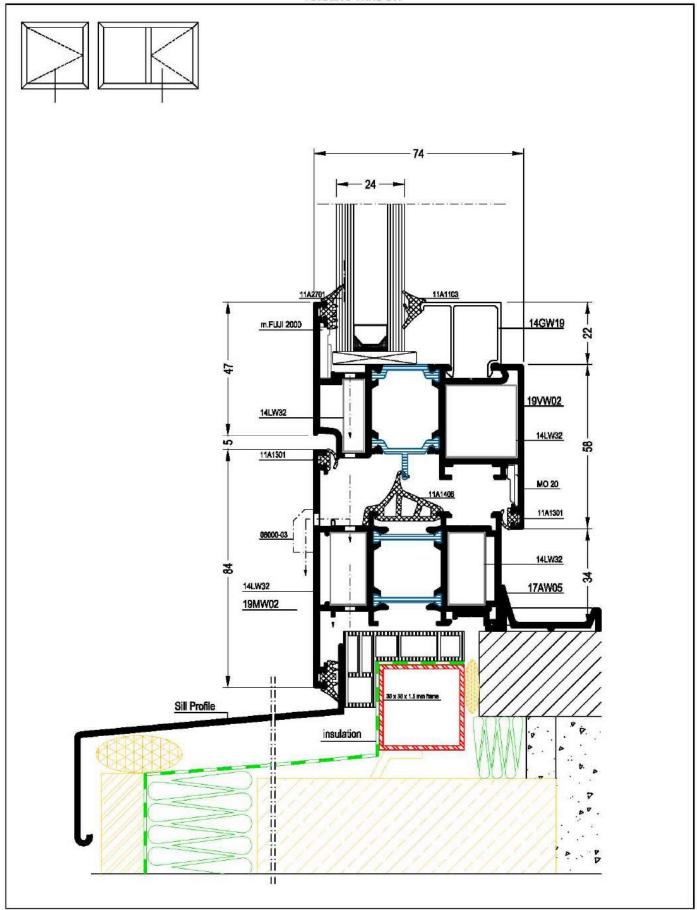


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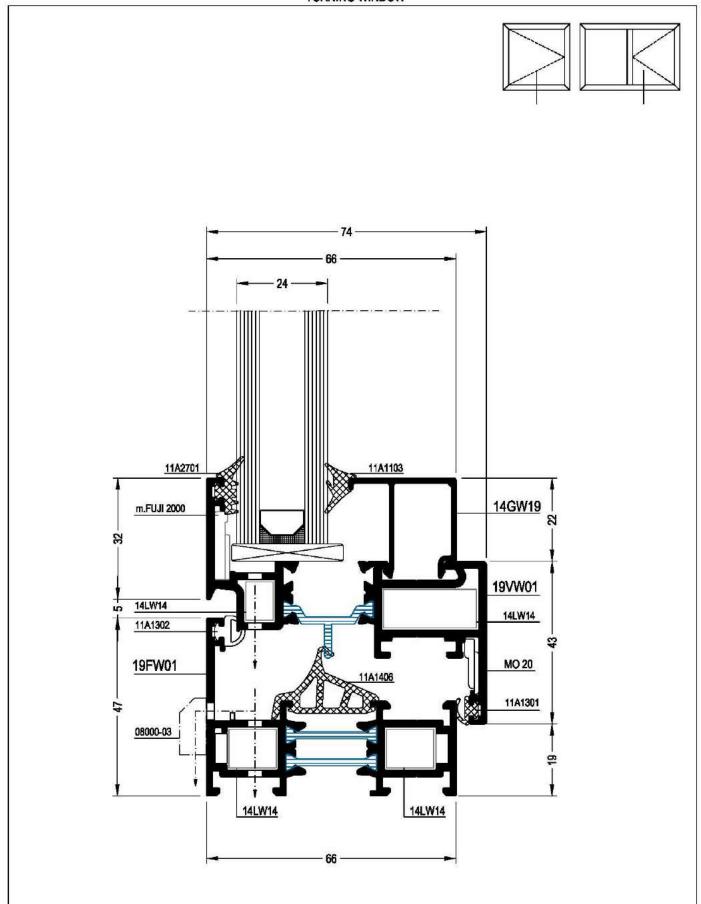


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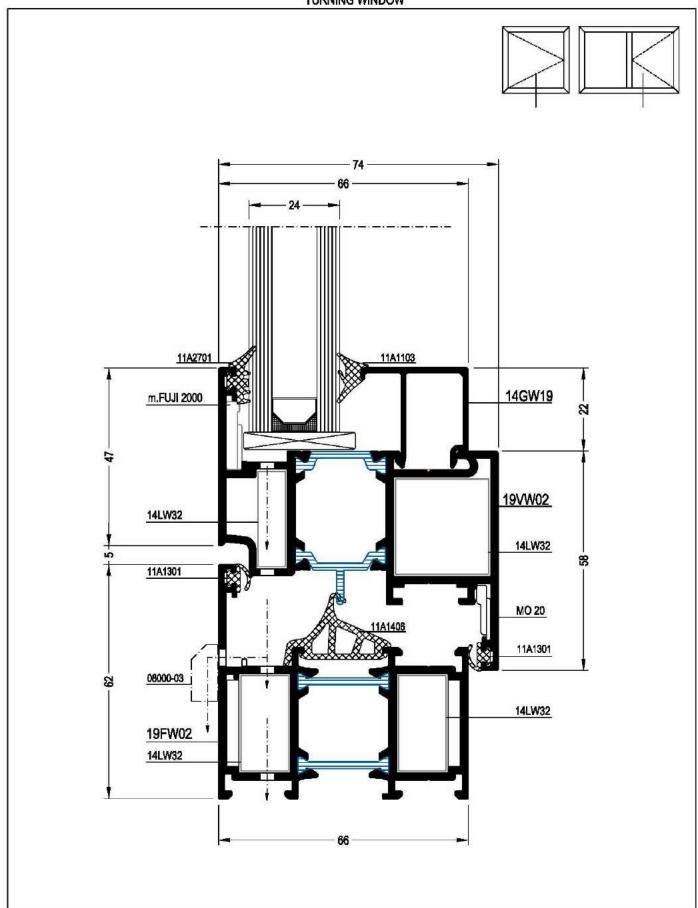


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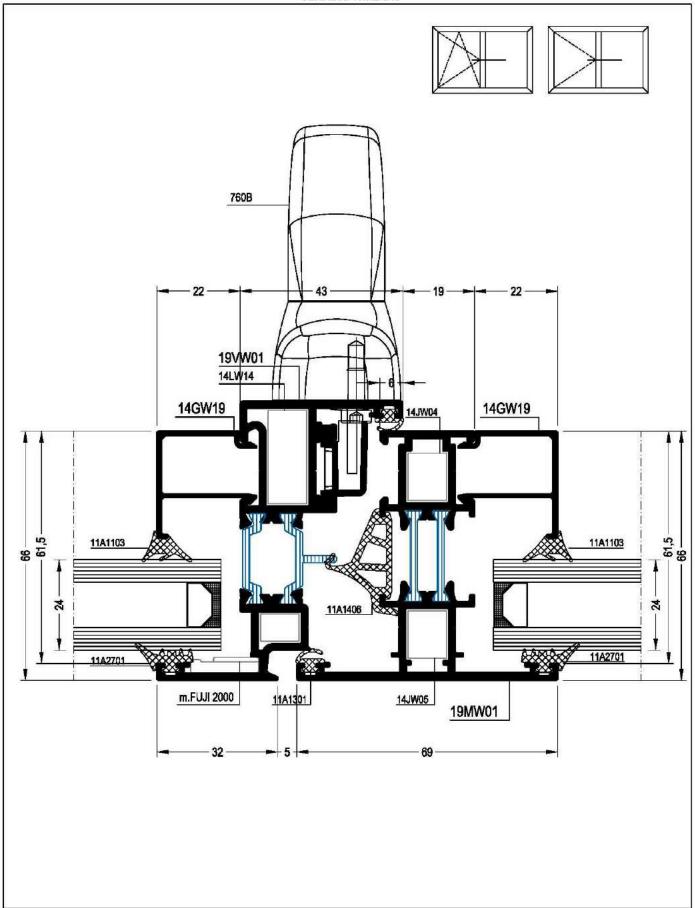


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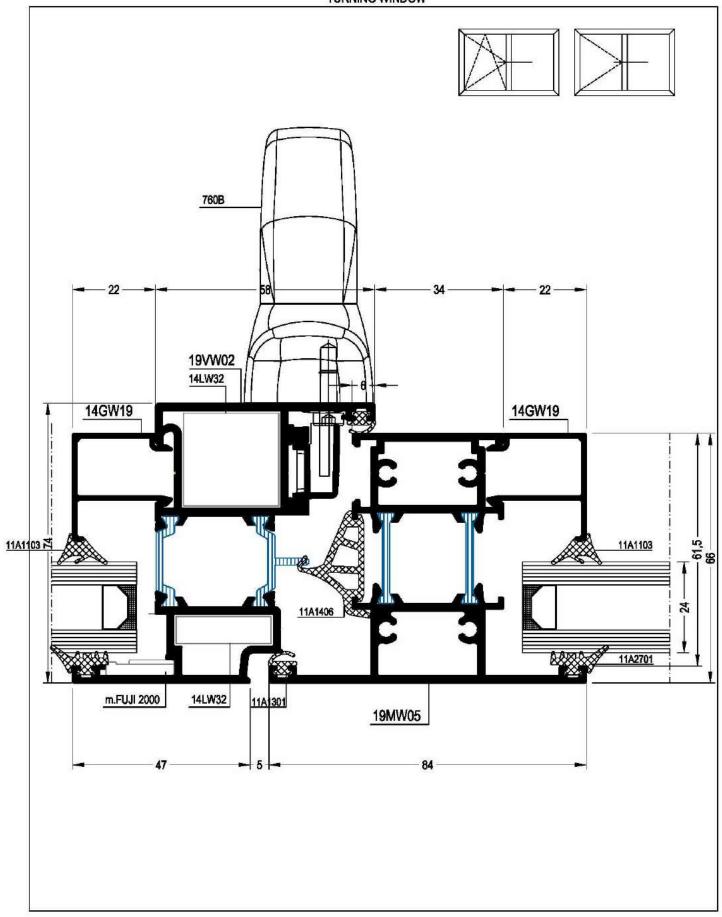
**DETAILS** 





**DETAILS** 

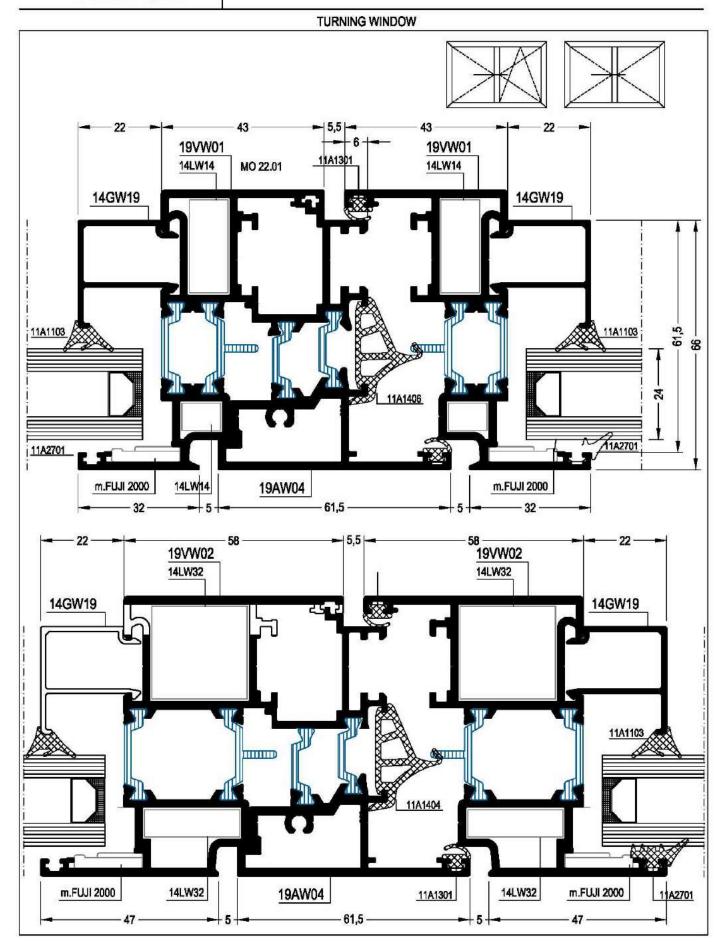
#### **TURNING WINDOW**



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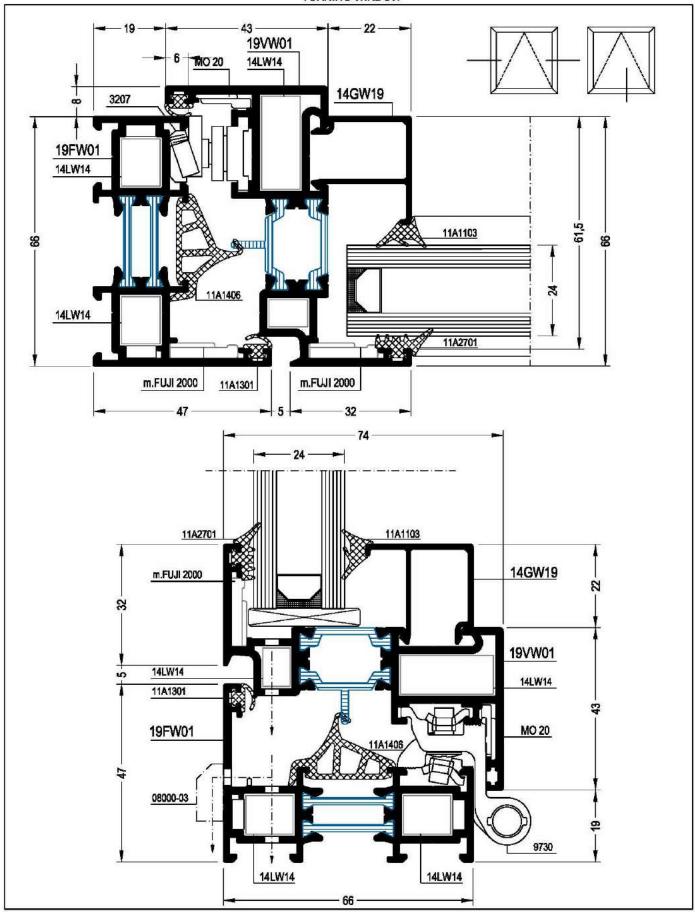


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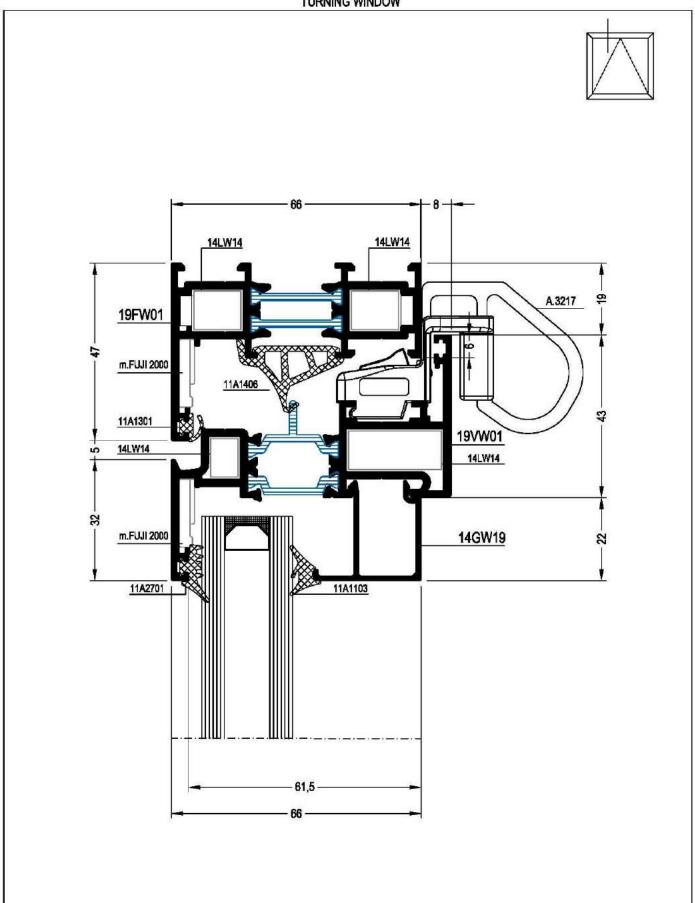


**DETAILS** 





**DETAILS** 



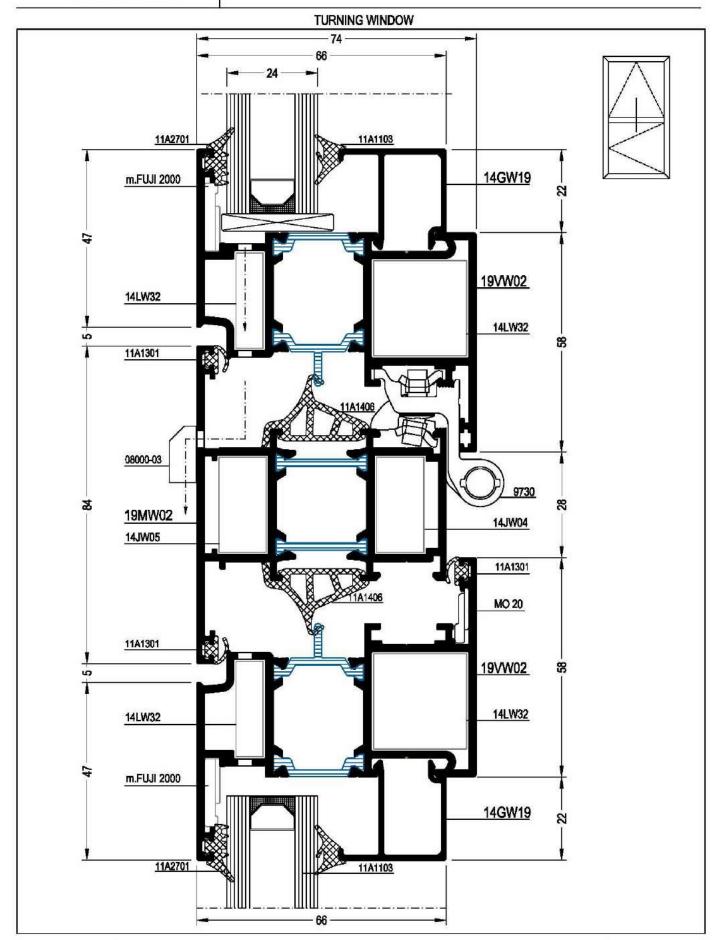


**DETAILS** 

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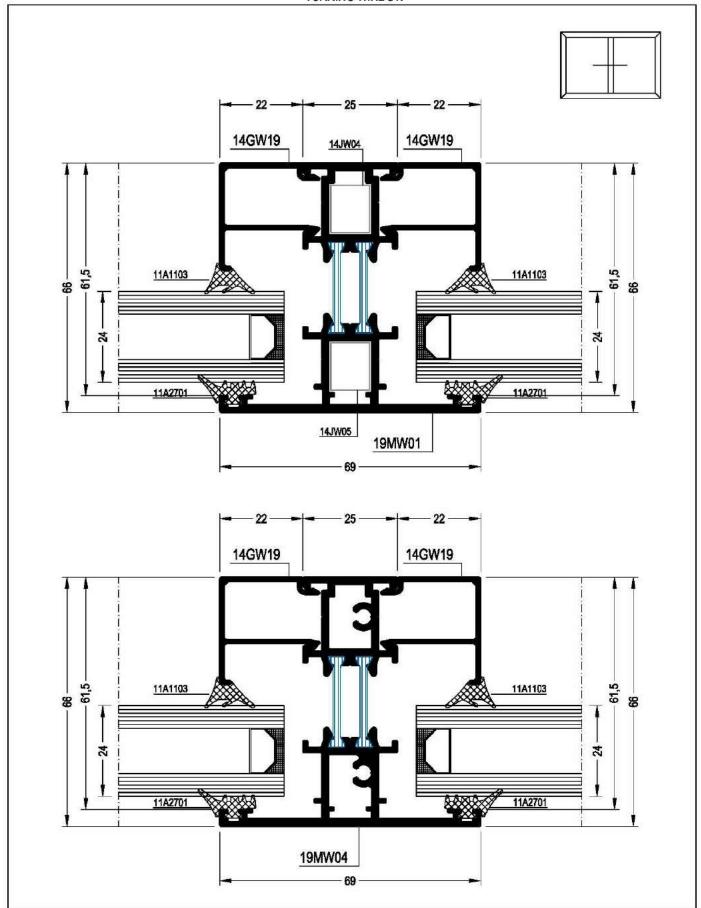


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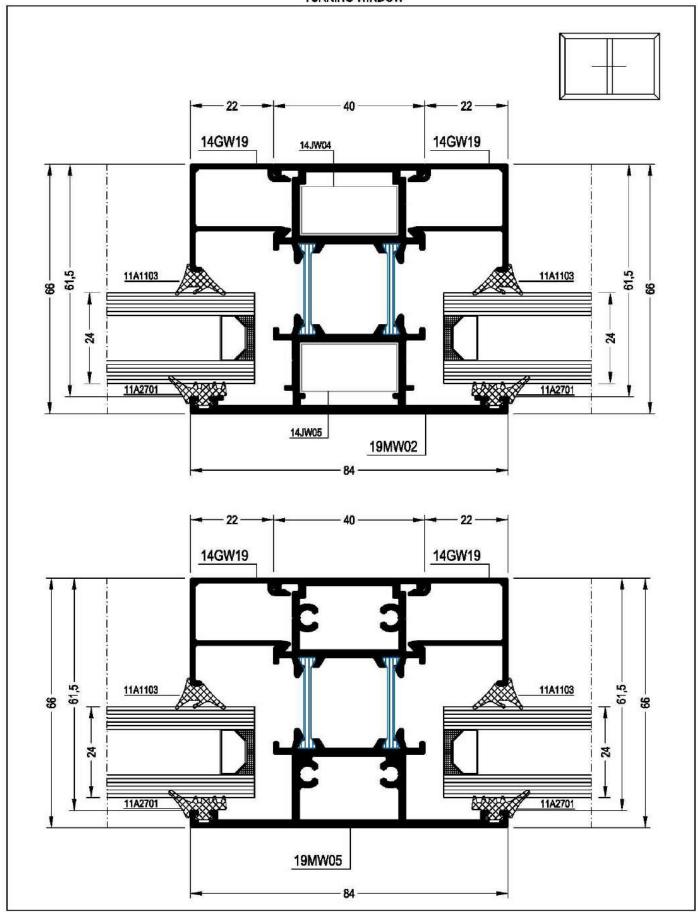


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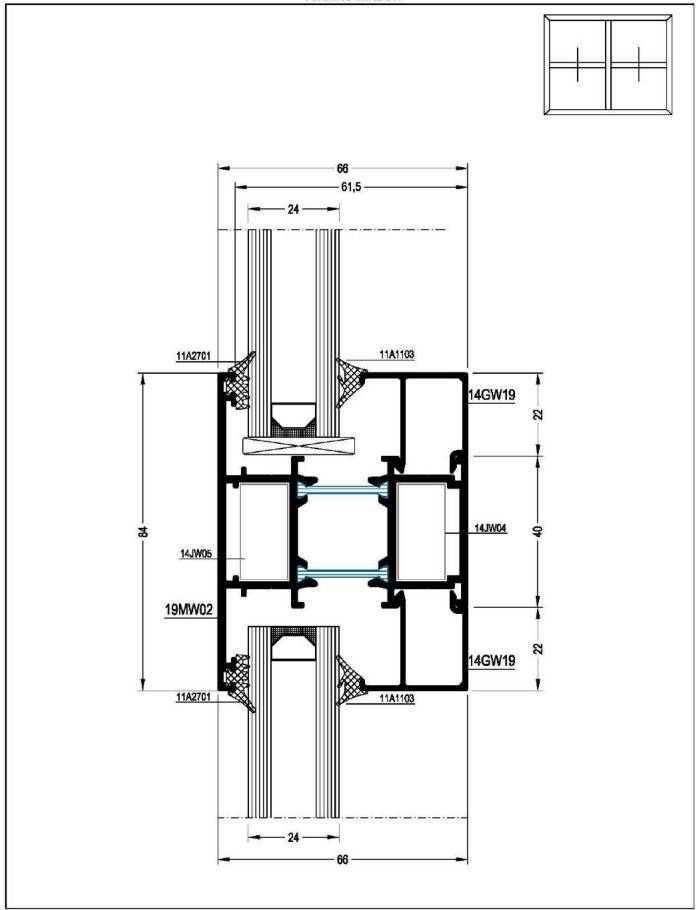


**DETAILS** 





**DETAILS** 





**DETAILS** 

# **TURNING WINDOW** 14GW19 14GW19 14JW04 61,5 11A1103 11A1103 8 8 11A2701 11A2701 14JW05 19MW08

22 -

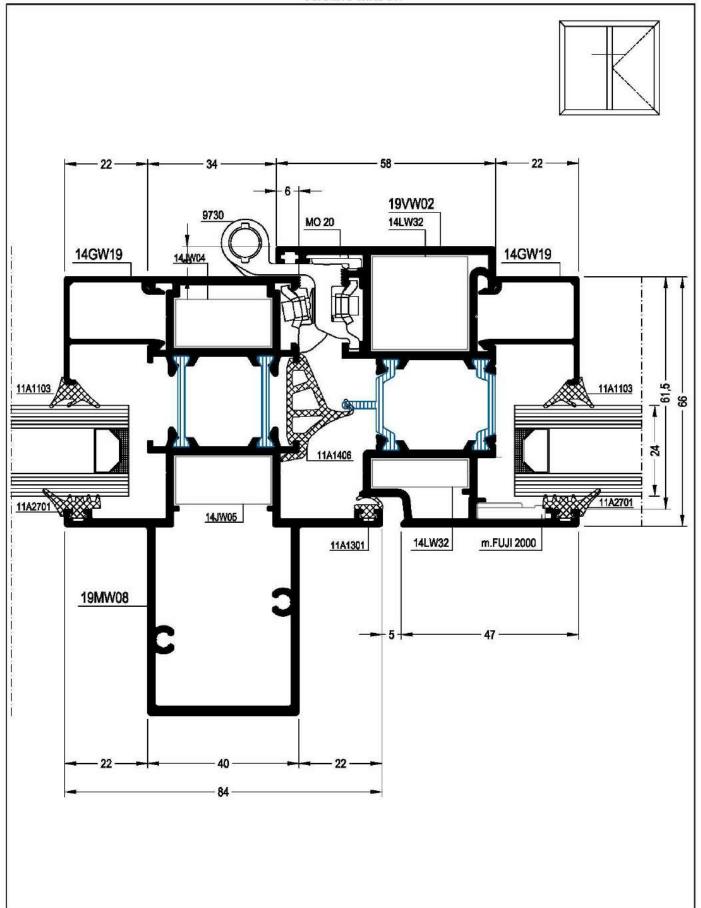


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## SYSTEM CASTLE 19'66 W+

**DETAILS** 

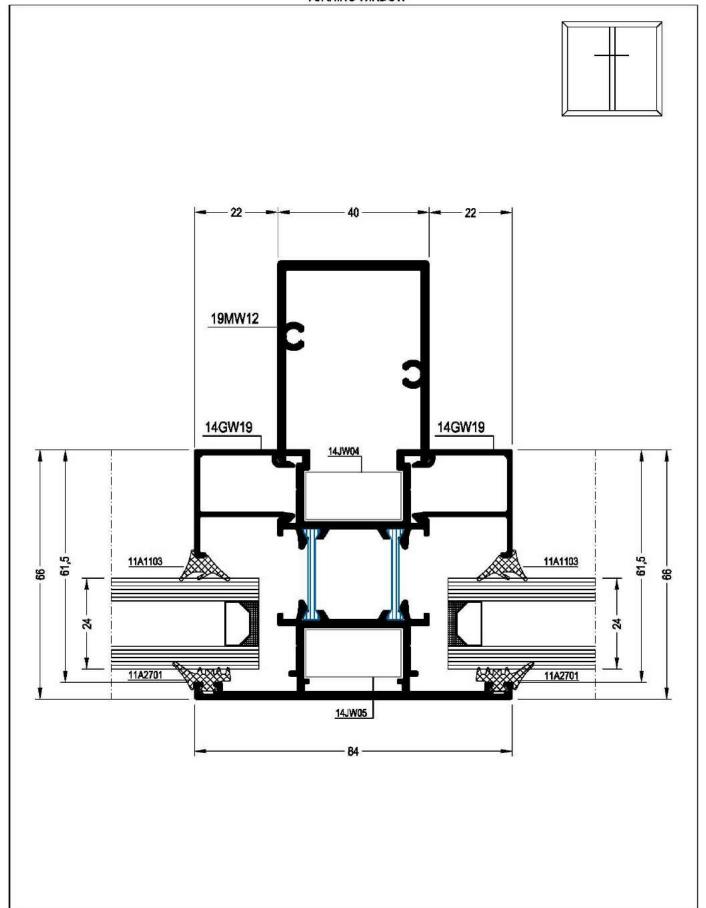
#### **TURNING WINDOW**



Scale

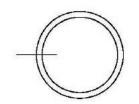


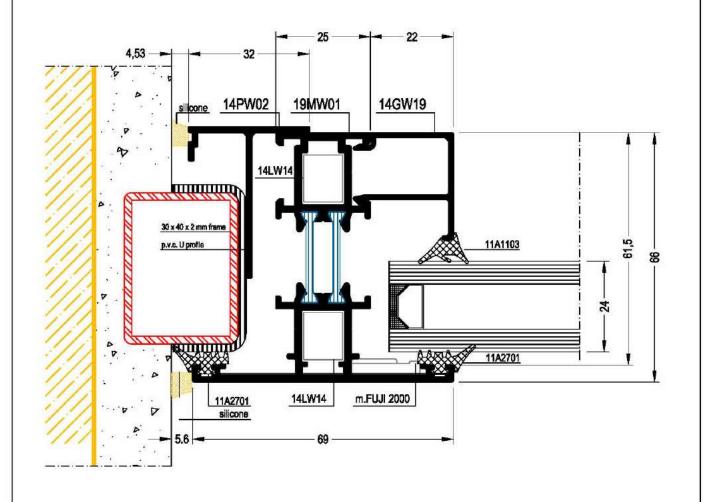
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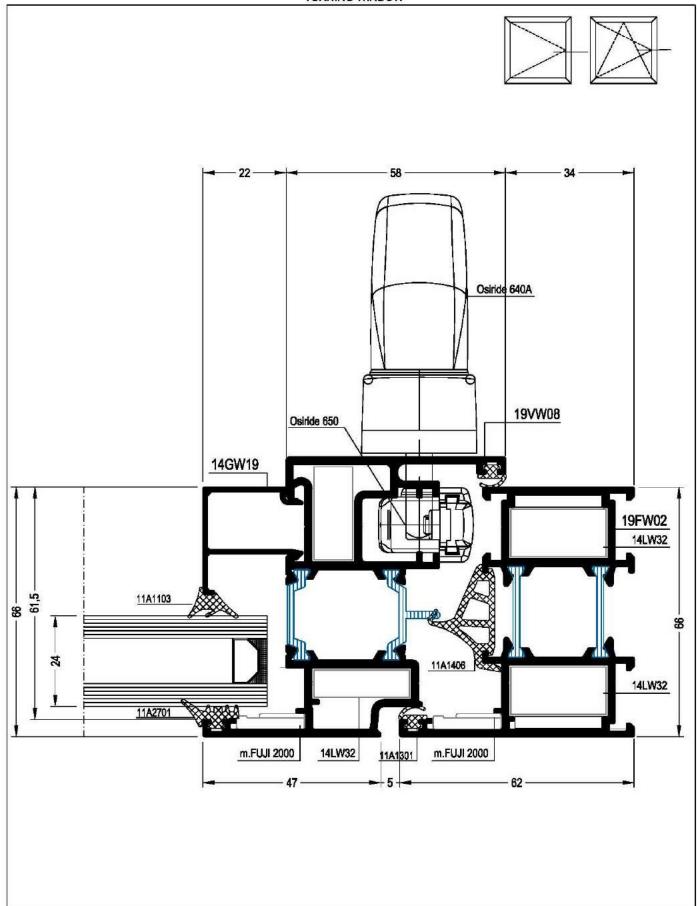
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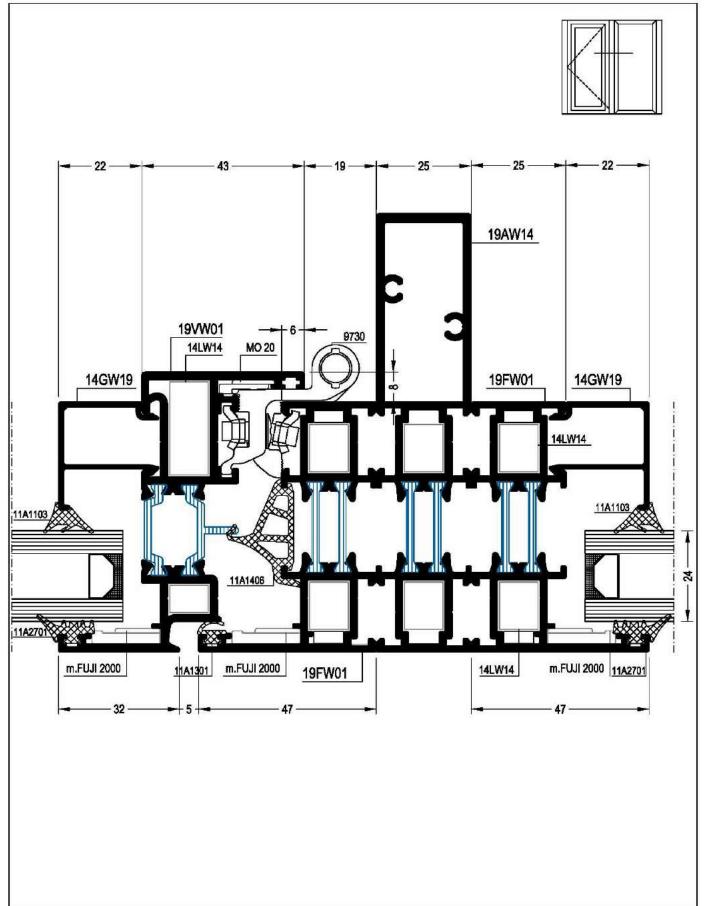


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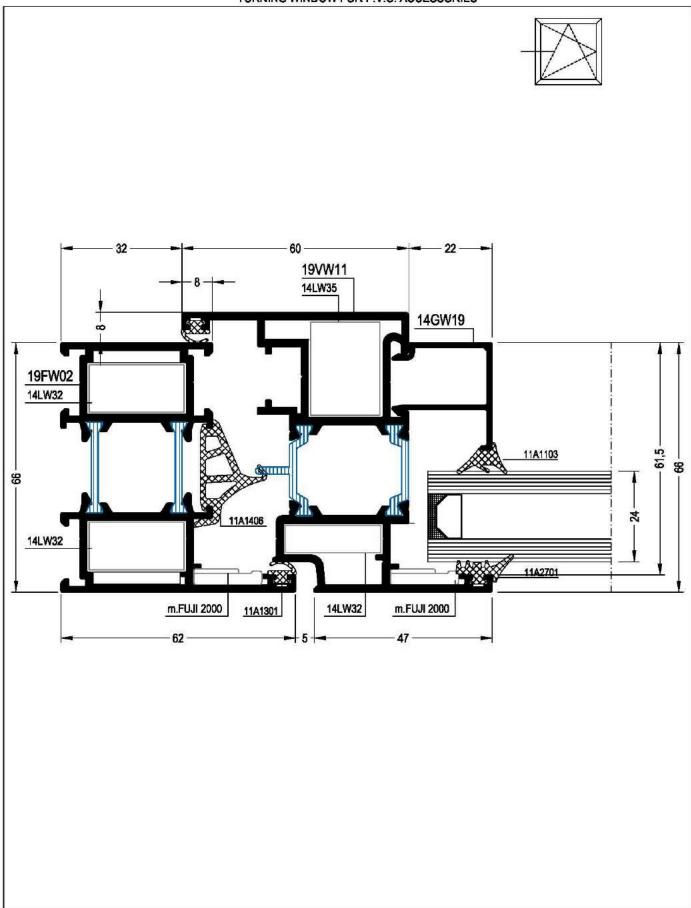
**DETAILS** 





**DETAILS** 

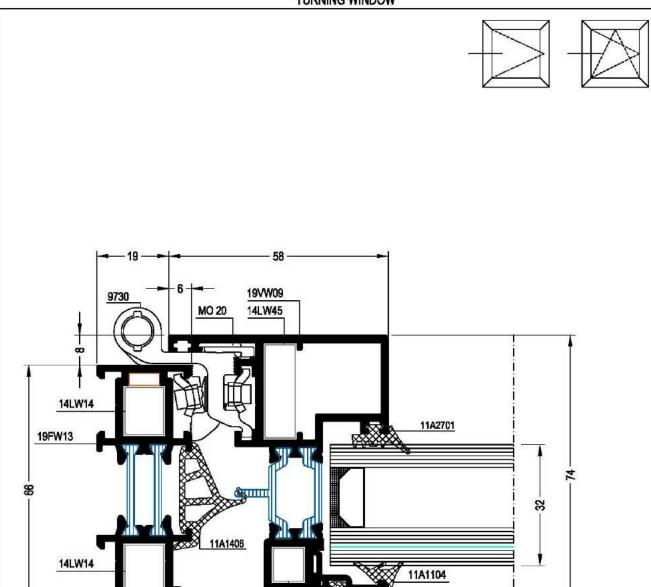
#### TURNING WINDOW FOR P.V.C. ACCESSORIES





**DETAILS** 

#### **TURNING WINDOW**



1:1

m.FUJI 2000

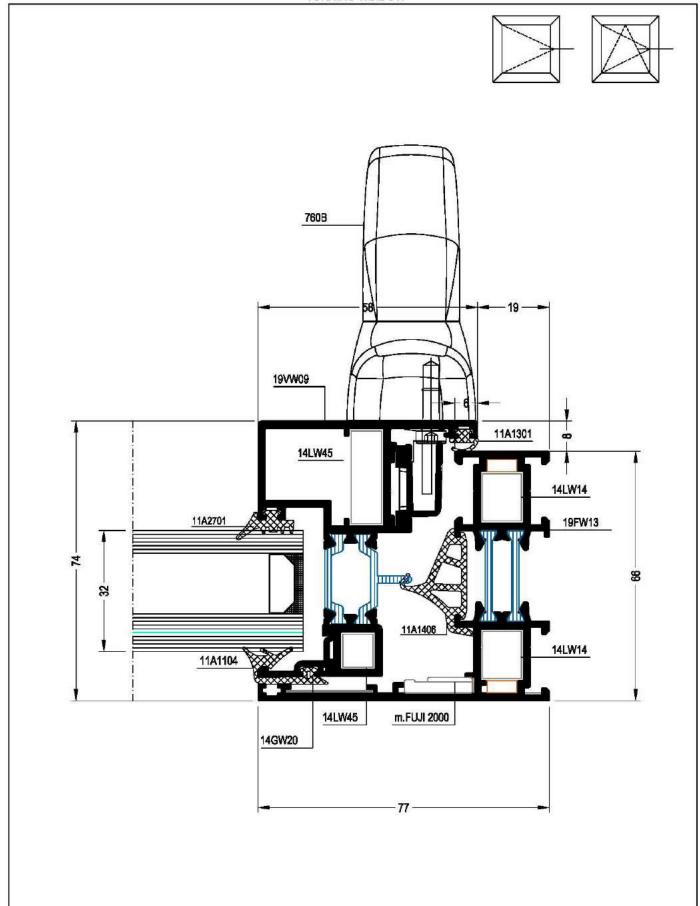
14LW45

77 -

14GW20



**DETAILS** 

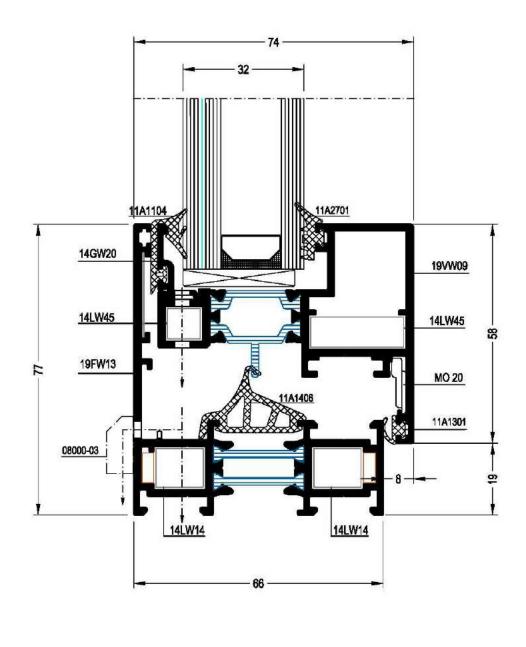




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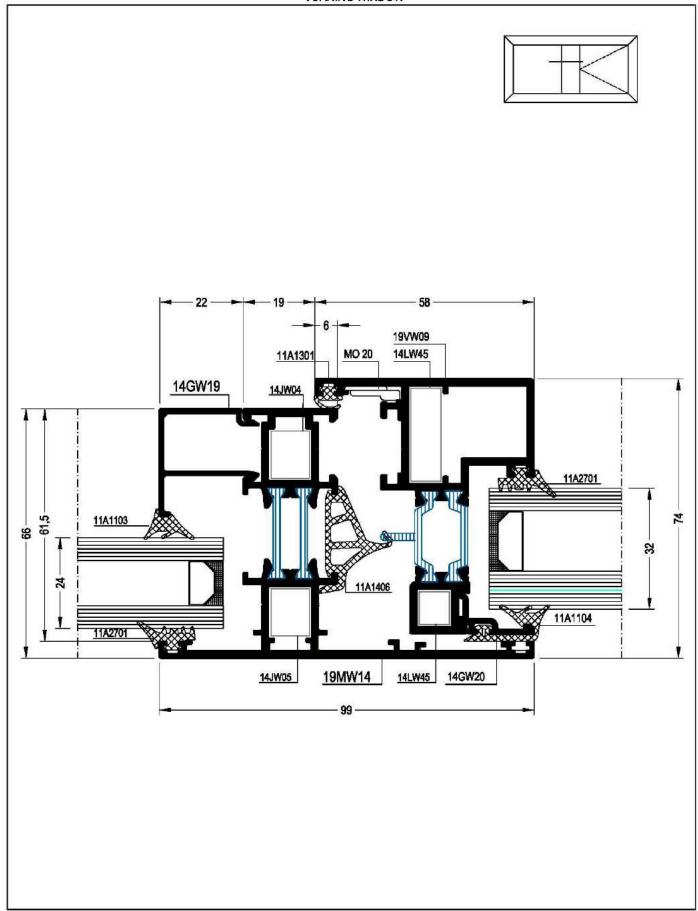






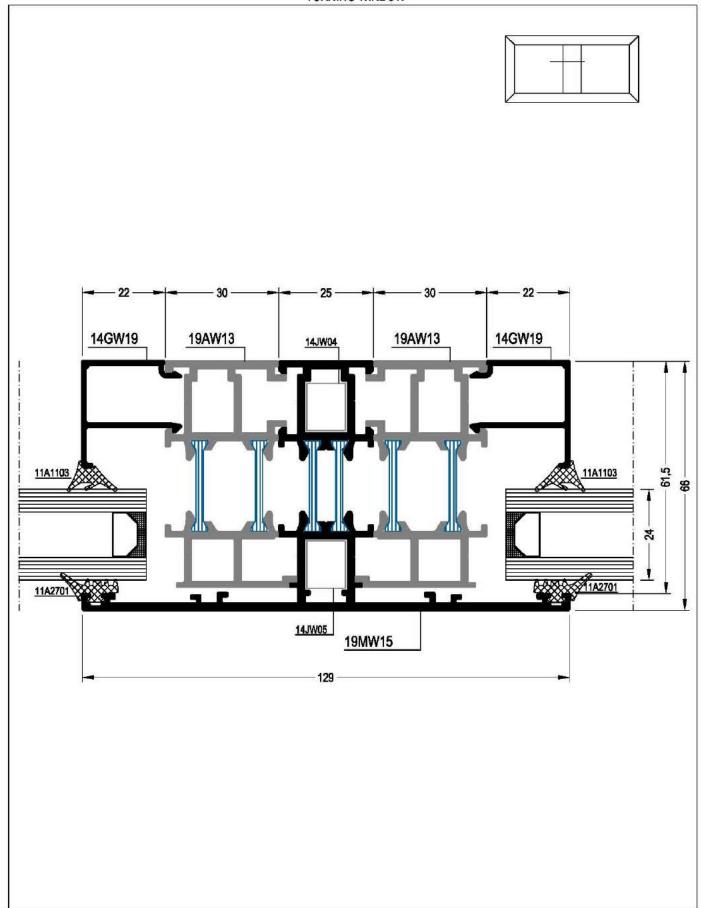


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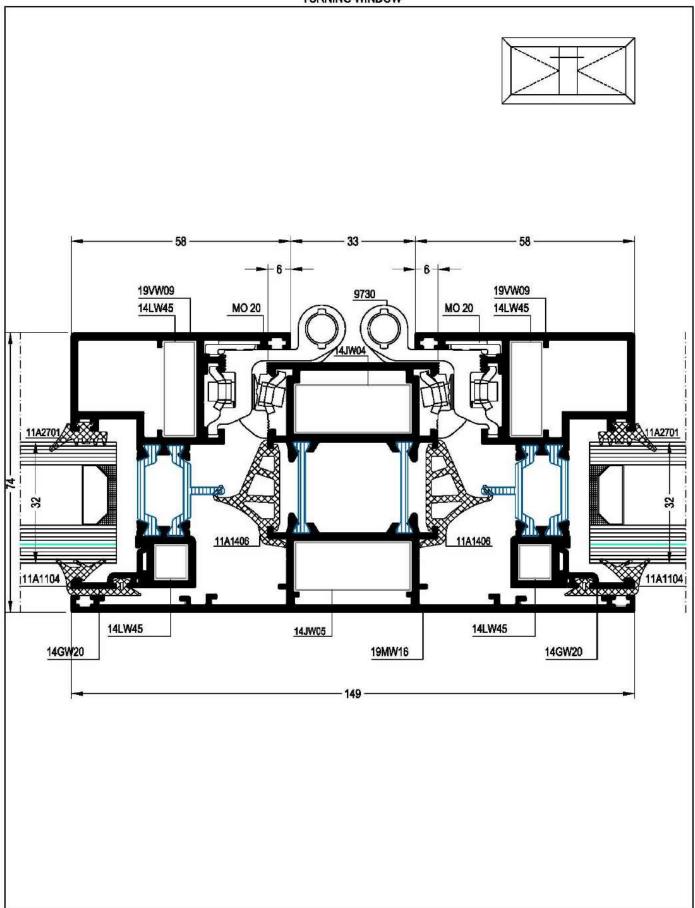


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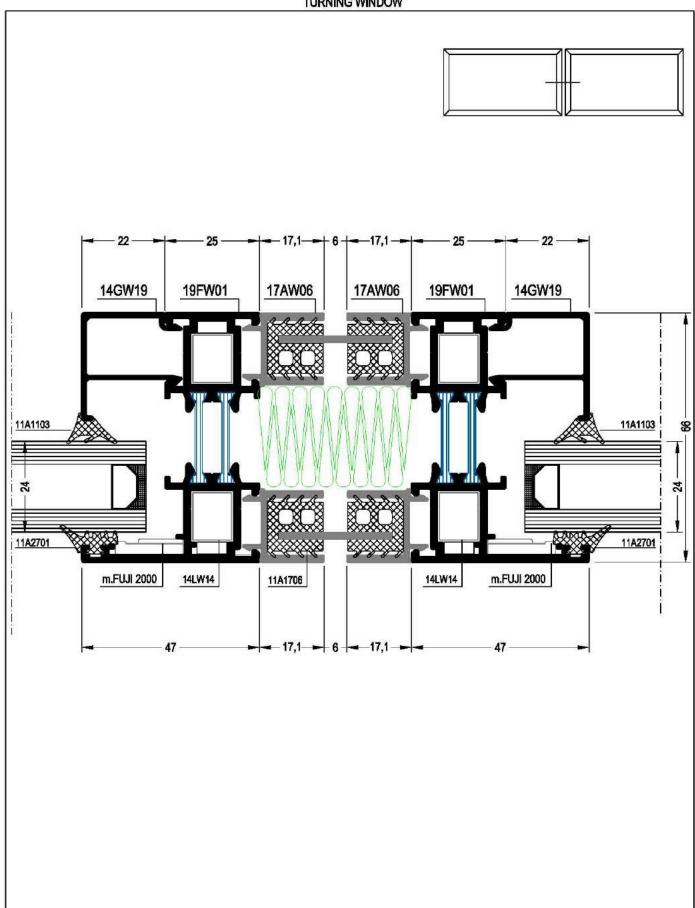


**DETAILS** 





**DETAILS** 



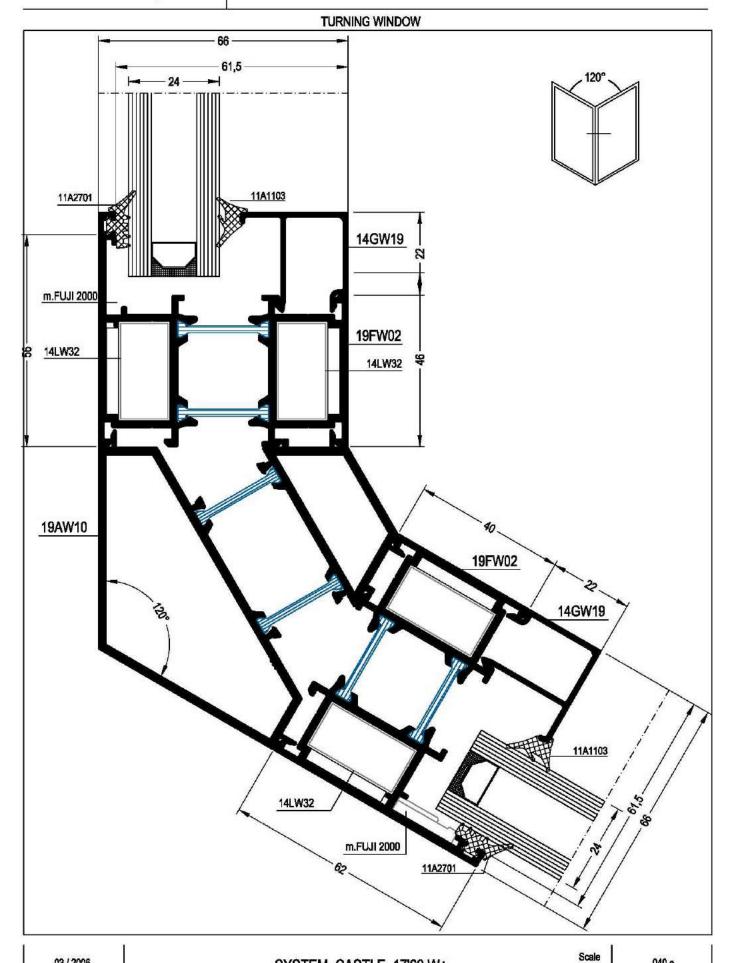


**DETAILS** 

# **TURNING WINDOW** 61,5 -11A1103 11A2701 14GW19 m.FUJI 2000 19FW02 18 14LW32 14LW32 19FW02 14GW19 61,5 11A1103 % 19AW09 11A2701 14LW32 m.FUJI 2000 - 66,2 -

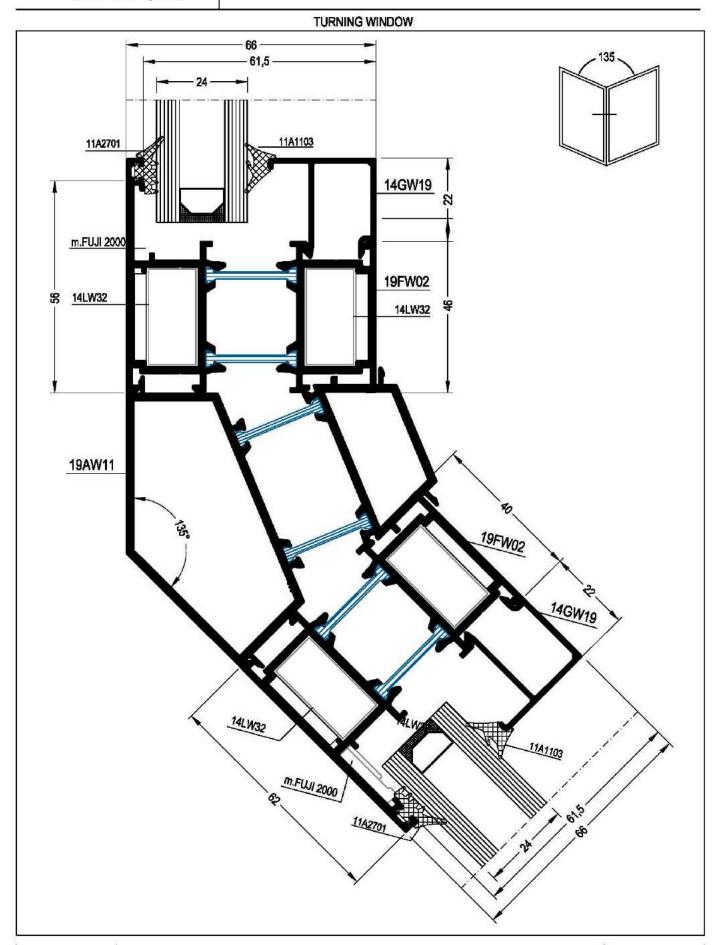


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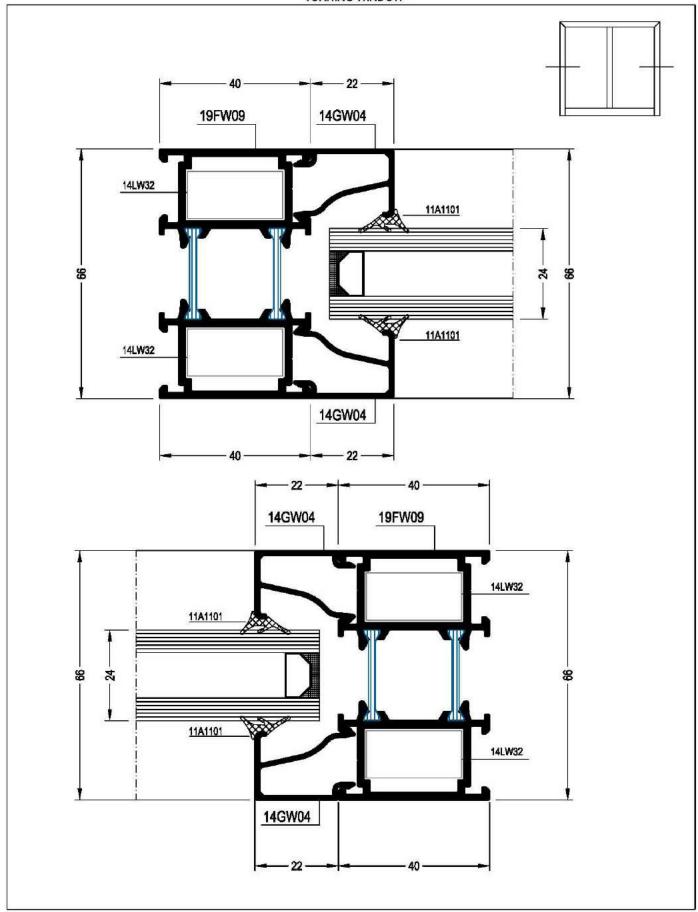


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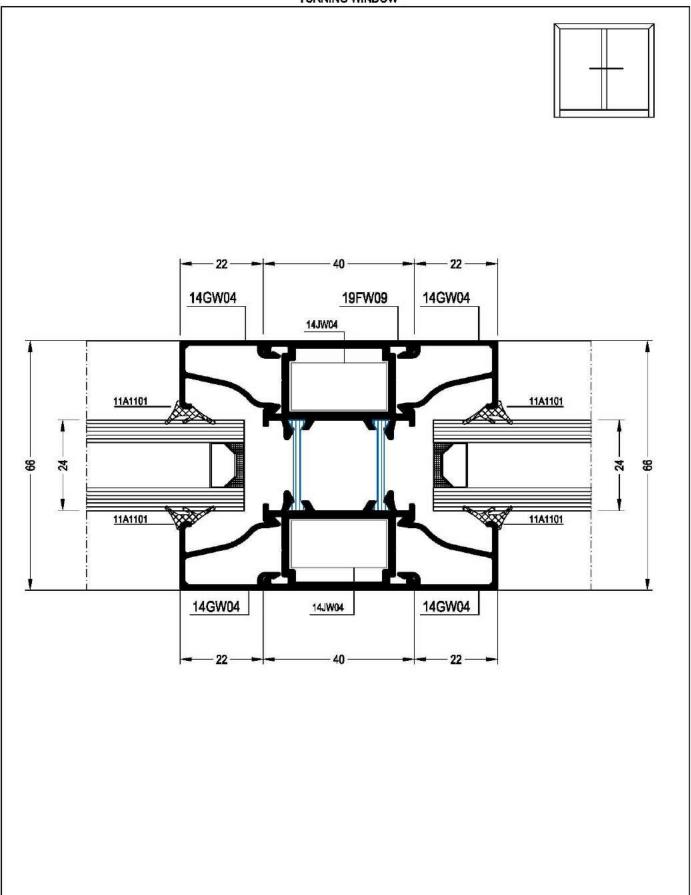


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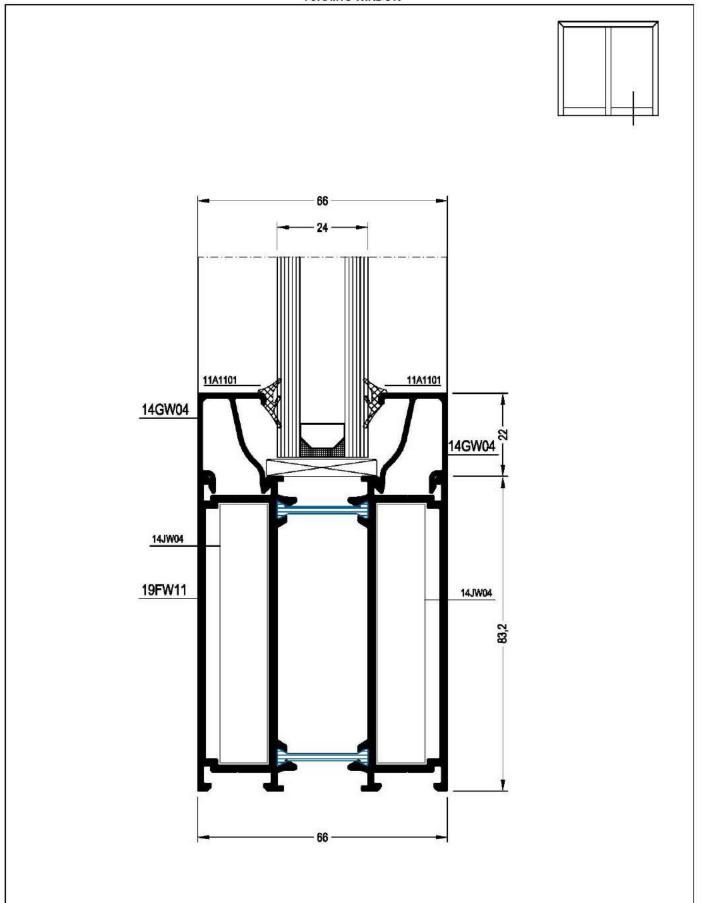


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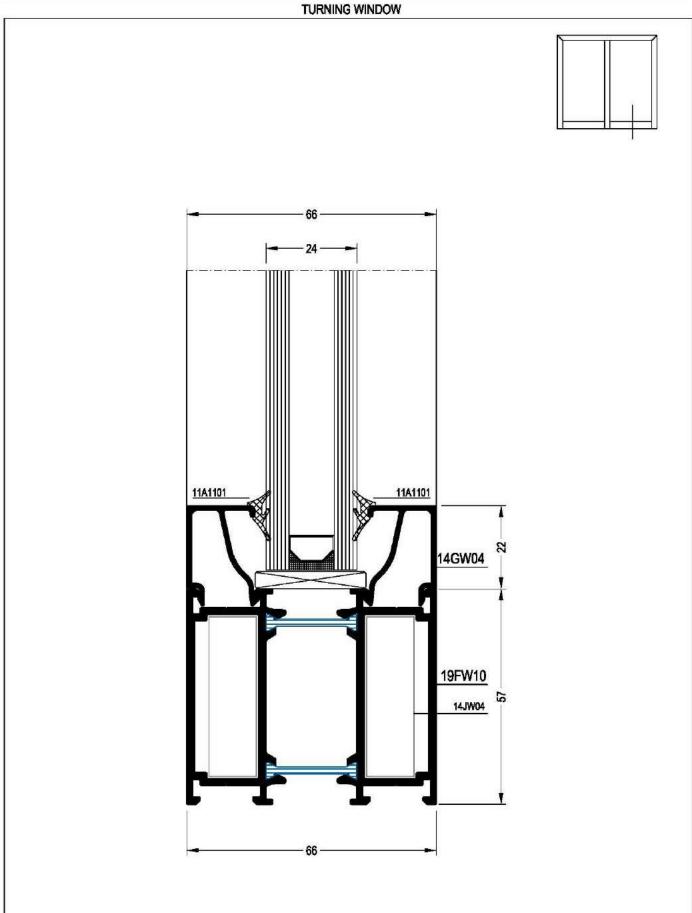


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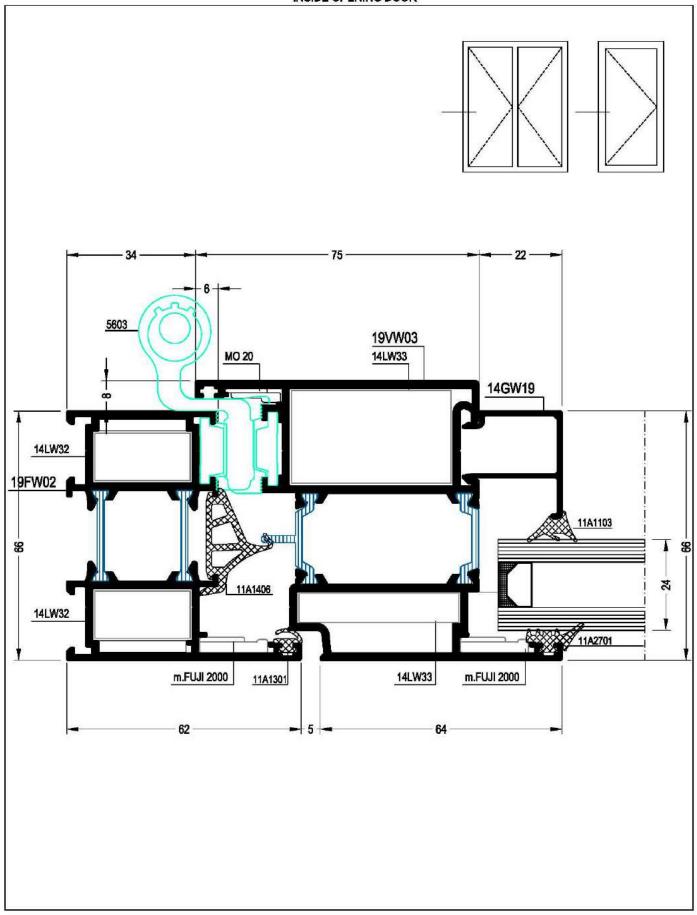


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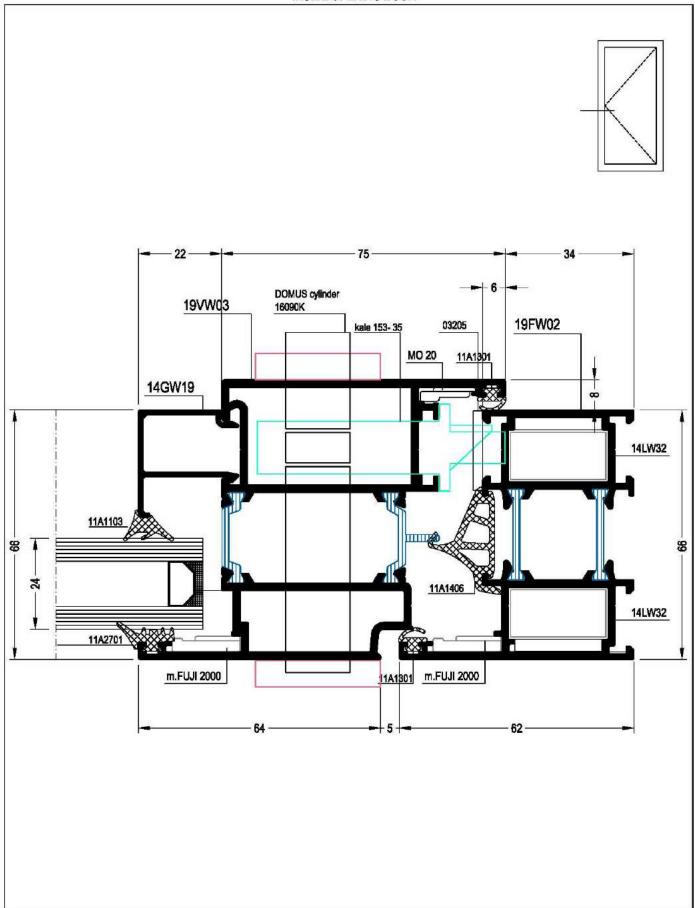


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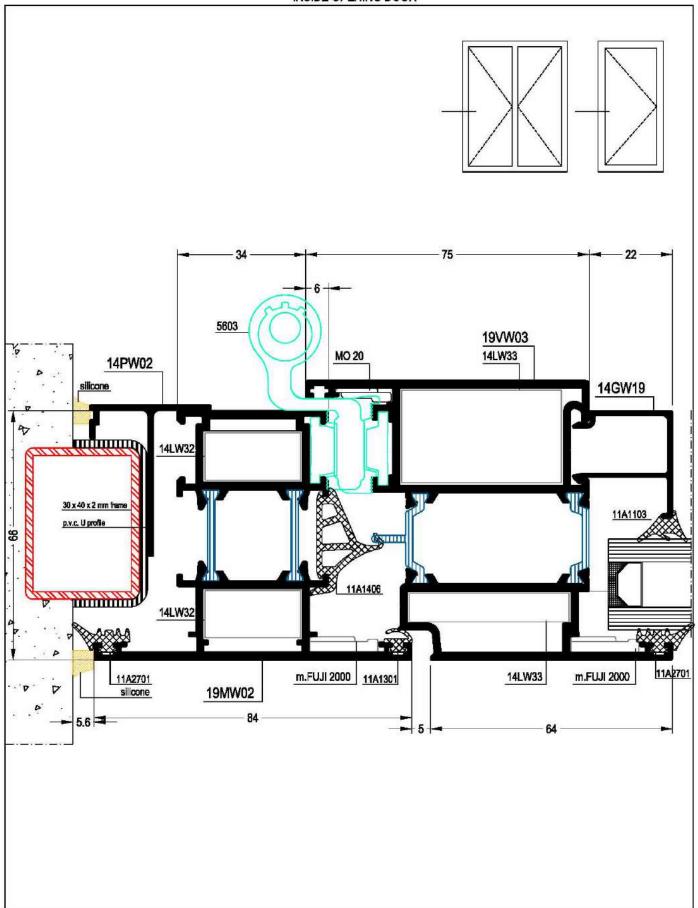


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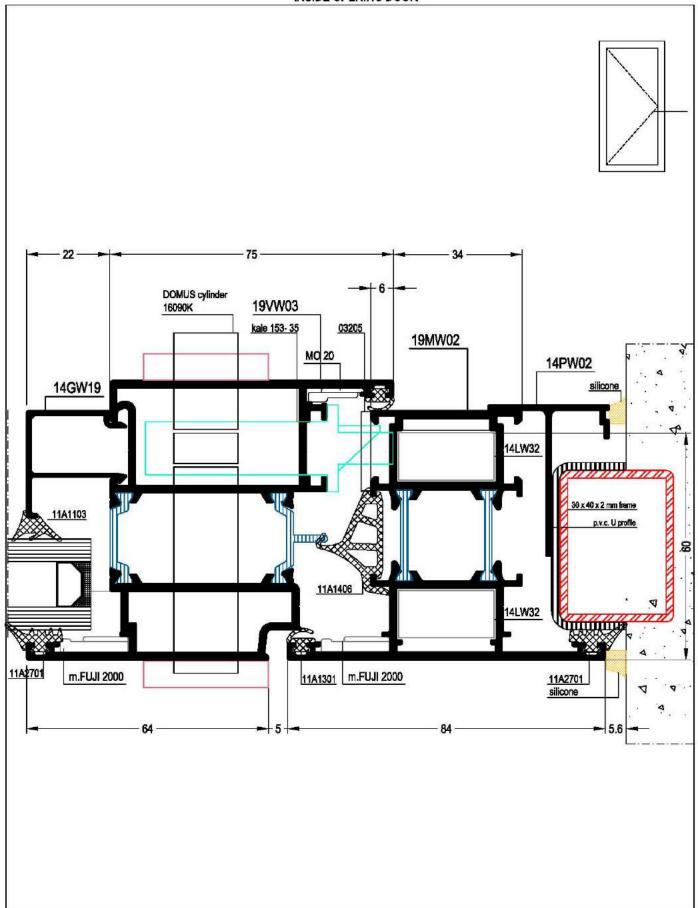


**DETAILS** 





**DETAILS** 



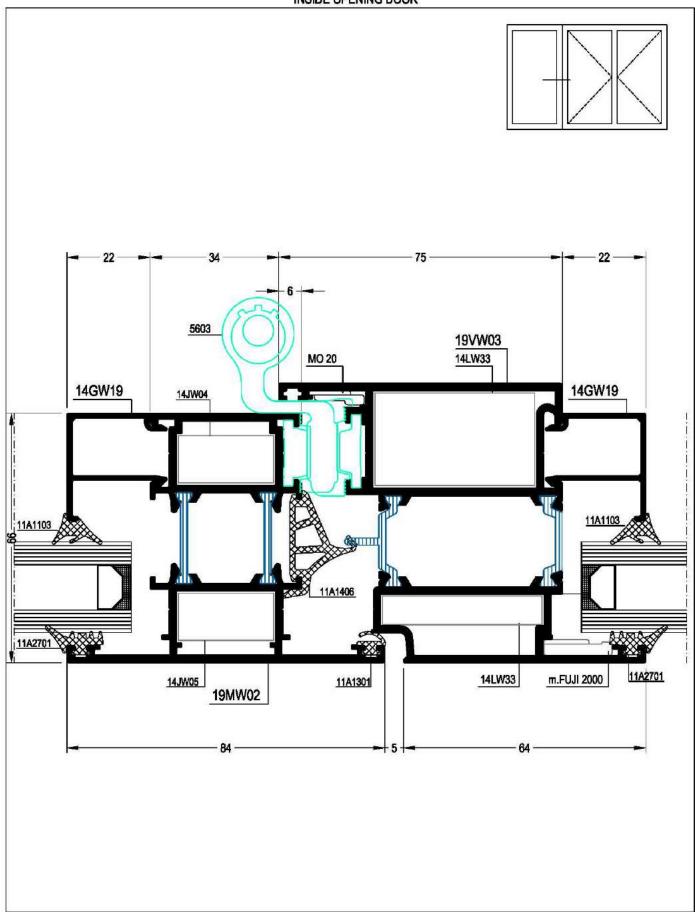


**DETAILS** 

# INSIDE OPENING DOOR - 22 -19FW02 14GW19 14LW32 11A1103 88 24 14LW32 m.FUJI 2000 22 -19FW03 14GW19 14LW33 11A1103 98 8 14LW33 11A2701 m.FUJI 2000 79

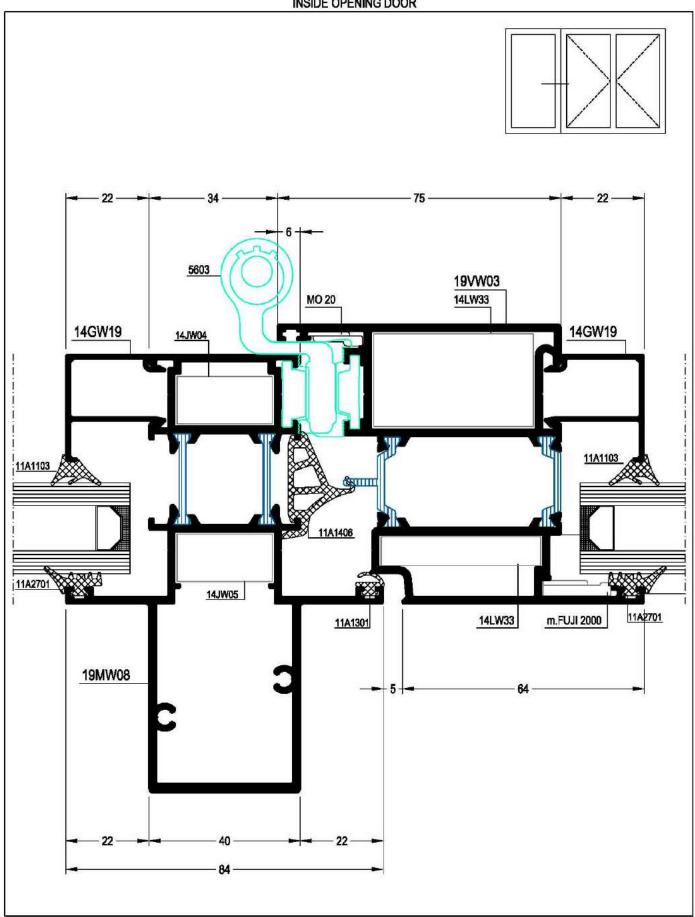


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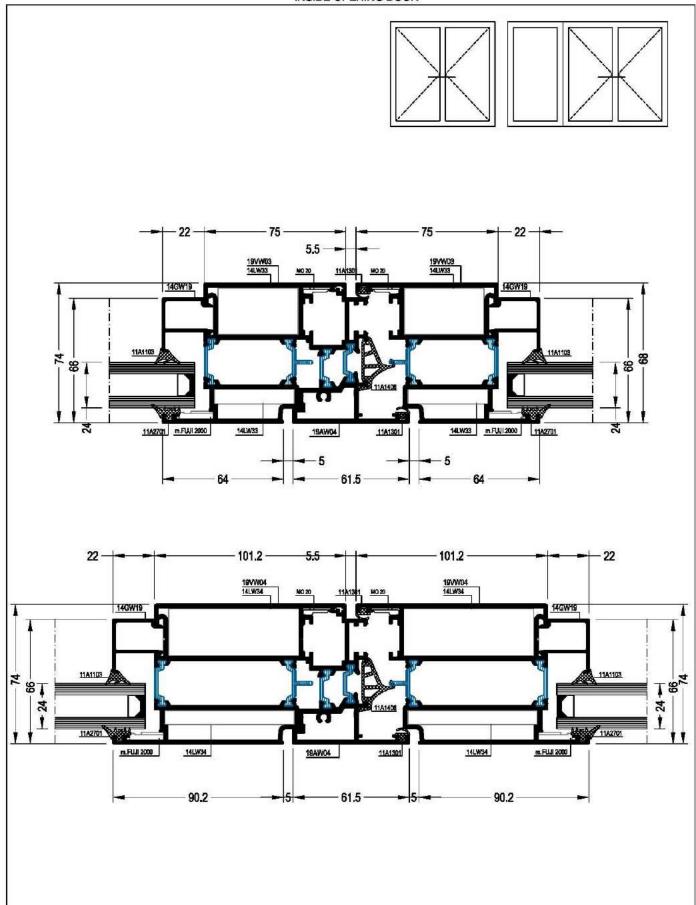


**DETAILS** 





**DETAILS** 





DETAILS

SYSTEM CASTLE 19'66 W+

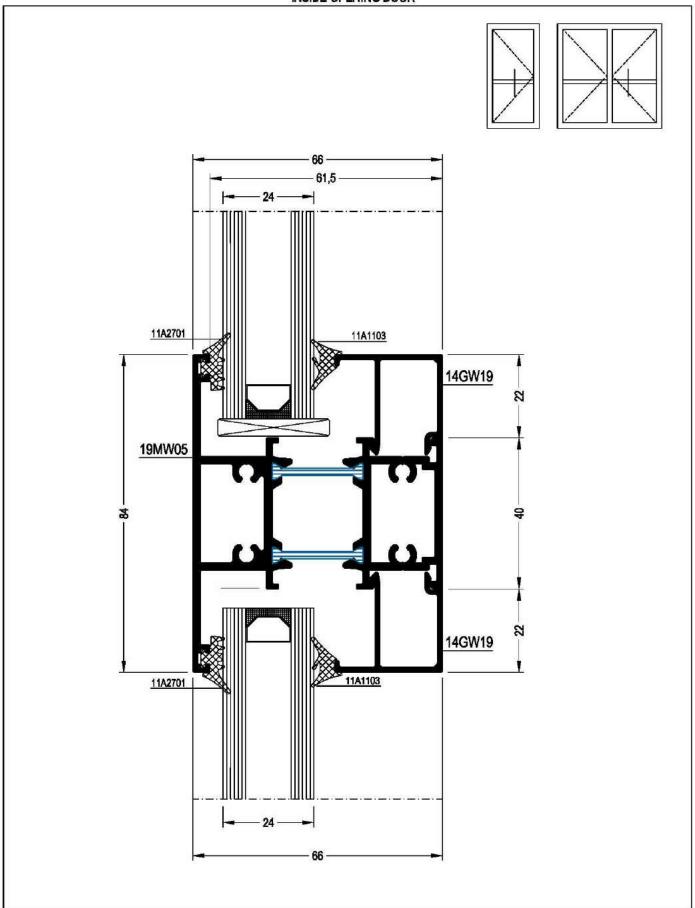
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SYSTEM CASTLE 19'66 W+

055.0

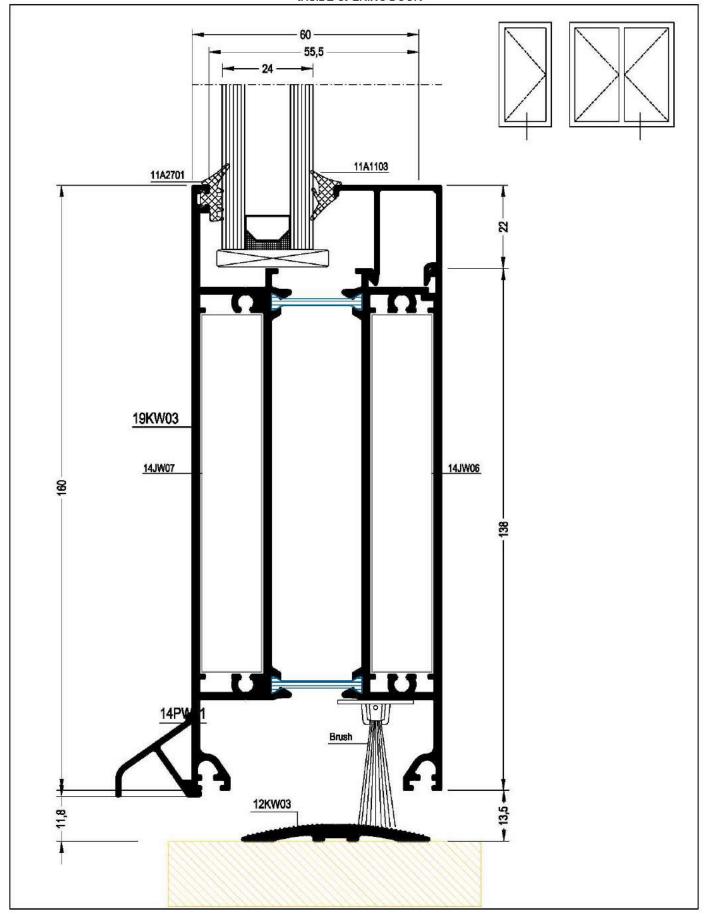


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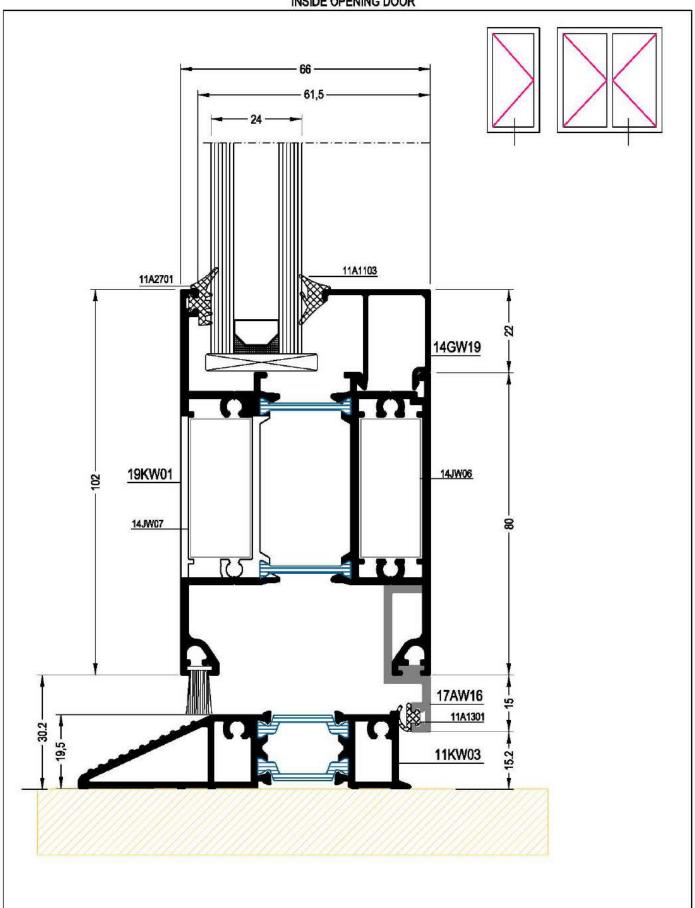


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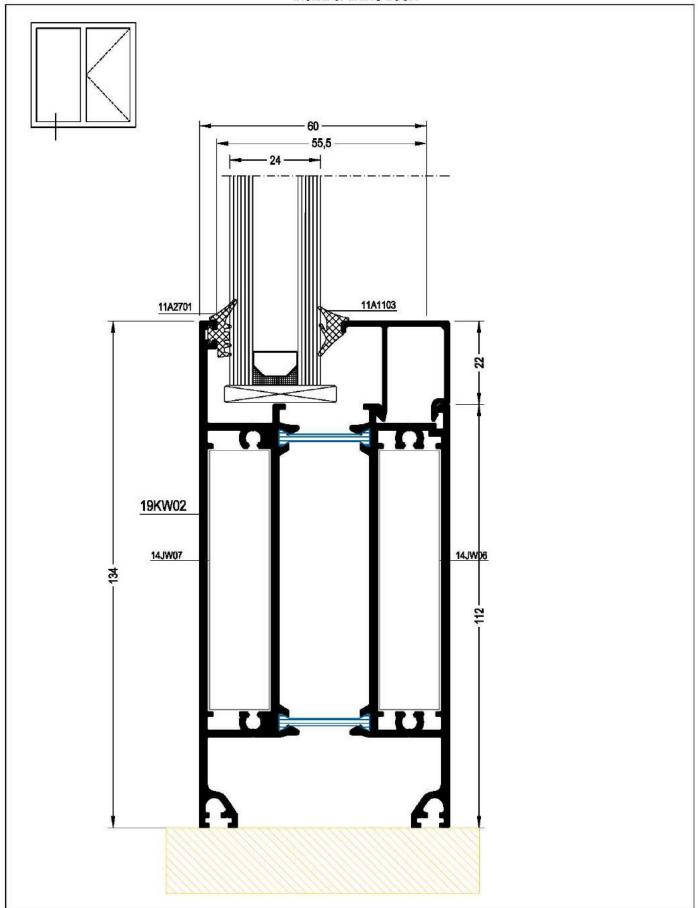


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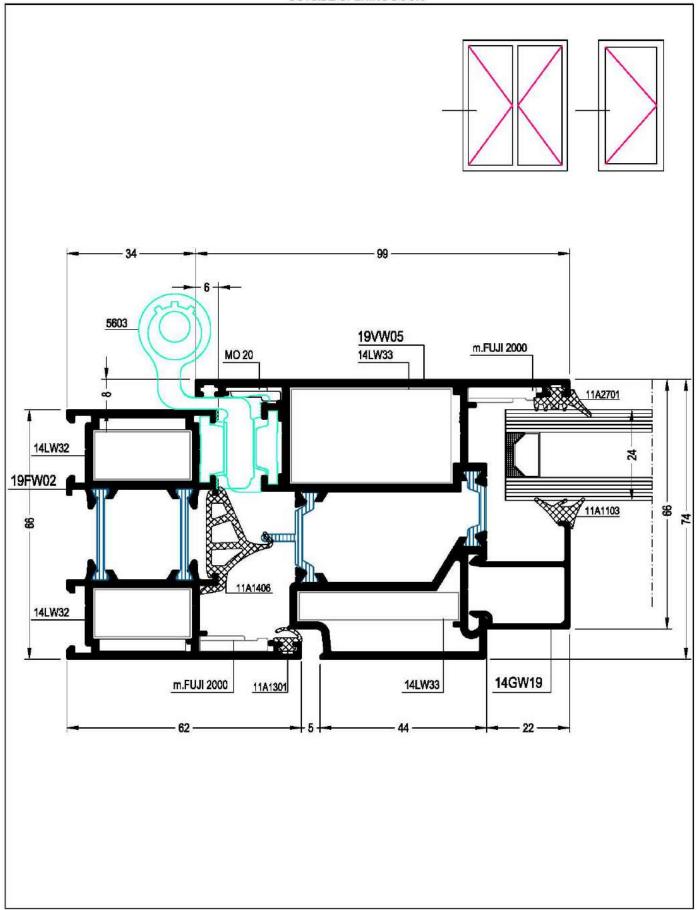


**DETAILS** 





**DETAILS** 





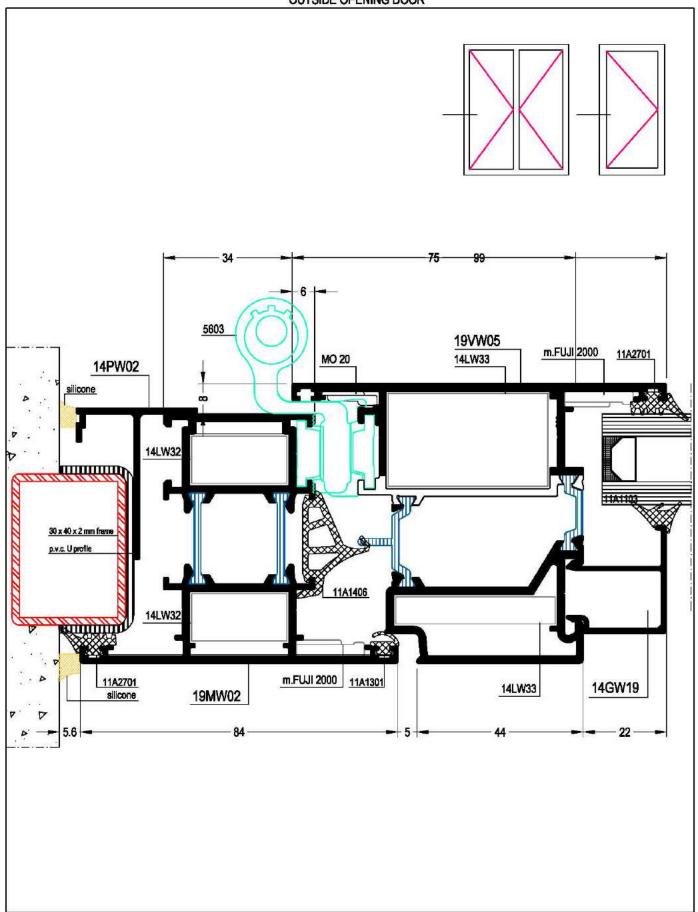
**DETAILS** 

# OUTSIDE OPENING DOOR DOMUS cylinder 16090K 19VW05 kale 153-35 03205 m.FUJI 2000 MO 20 11A1301 11A2701 14LW32 19FW02 8 11A1103 7 14LW32 14GW19 m.FUJI 2000 22

Scale



**DETAILS** 





**DETAILS** 

# OUTSIDE OPENING DOOR DOMUS cylinder 16090K kale 153-35 03205 19VW05 19MW02 11A2701 m.FUJI 2000 MO 20 11A130 14PW02 silicone 14LW32 30 x 40 x 2 mm frame 11A1103 14LW32 m.FUJI 2000 11A2701 14GW19 silicone

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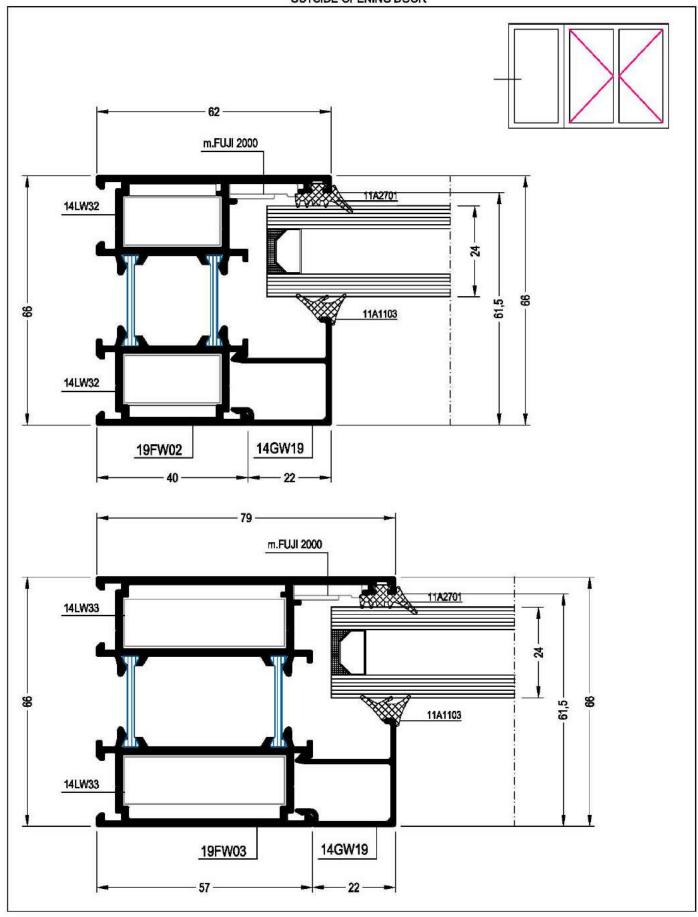
SYSTEM CASTLE 19'66 W+

Scale 1:1

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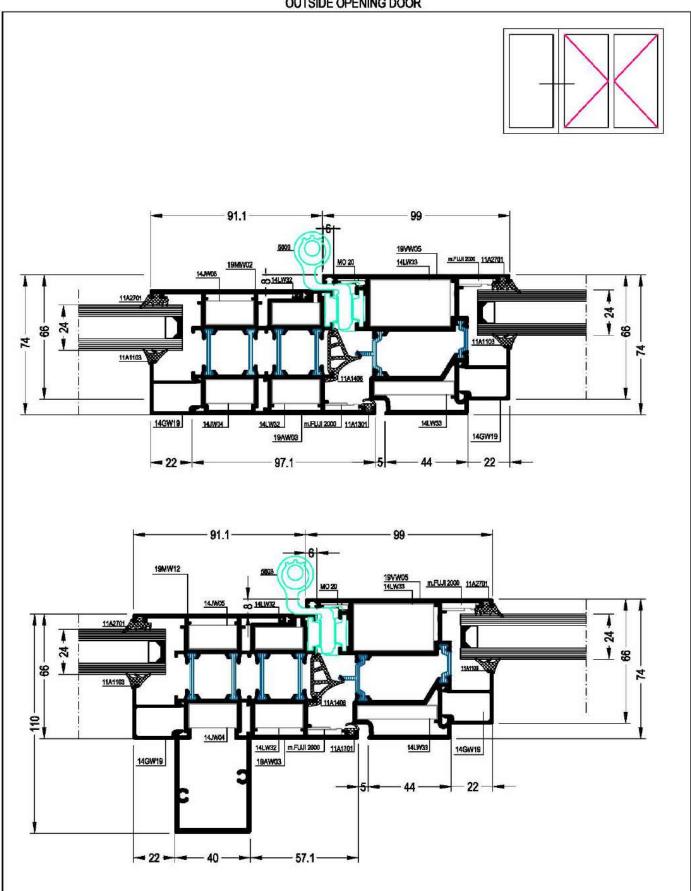


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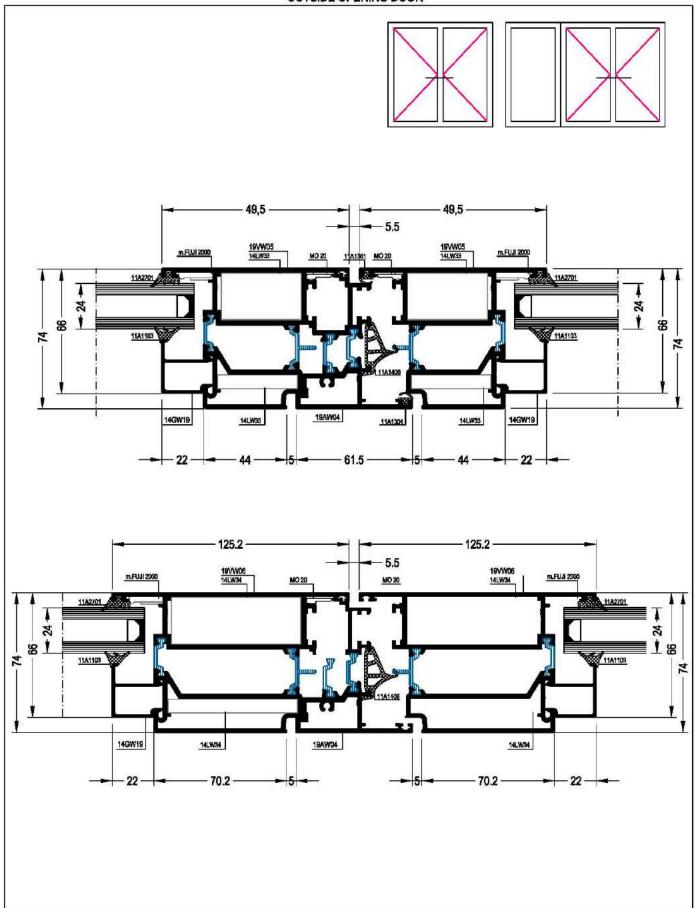


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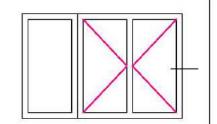


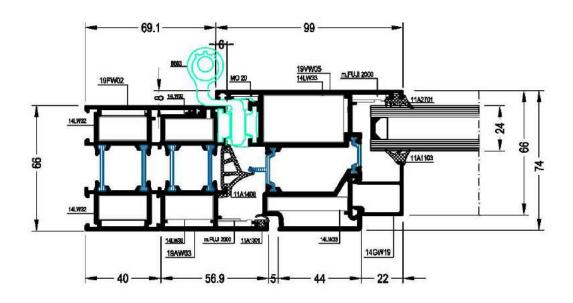
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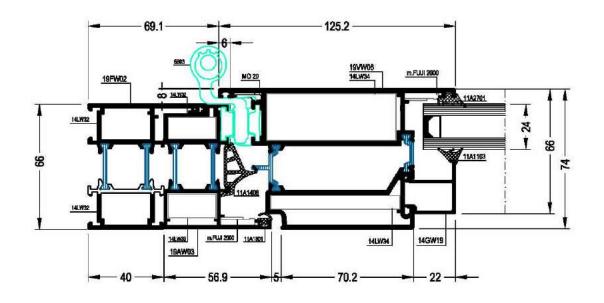




**DETAILS** 









DETAILS

Scale

SYSTEM CASTLE 19'66 W+

074.0

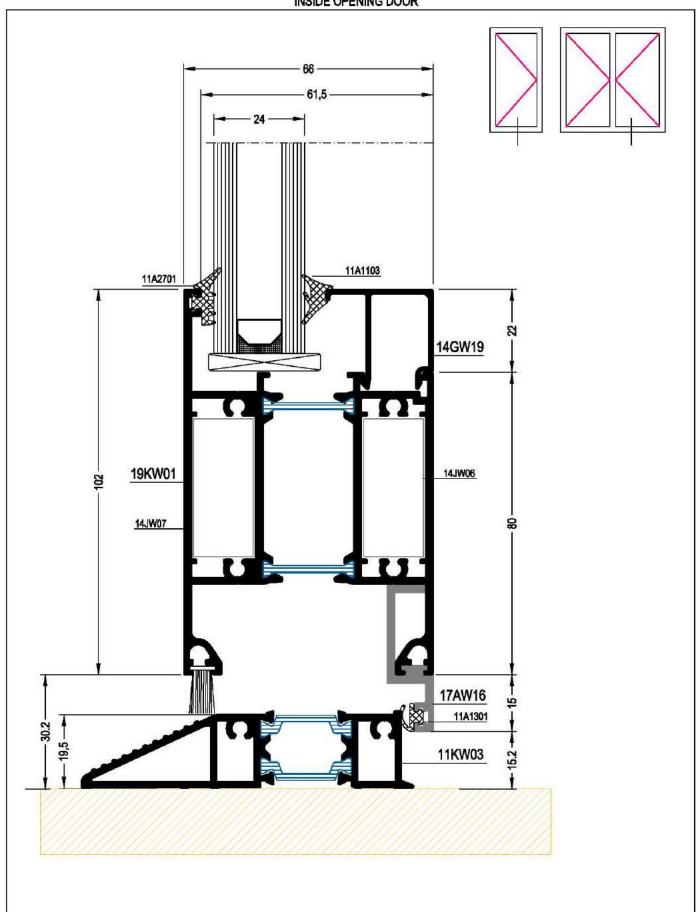


# **DETAILS** Aluminium System INSIDE OPENING DOOR 55,5 11A1103 11A2701 19KW03 14JW07 14JW06 160 Brush 12KW03



**DETAILS** 

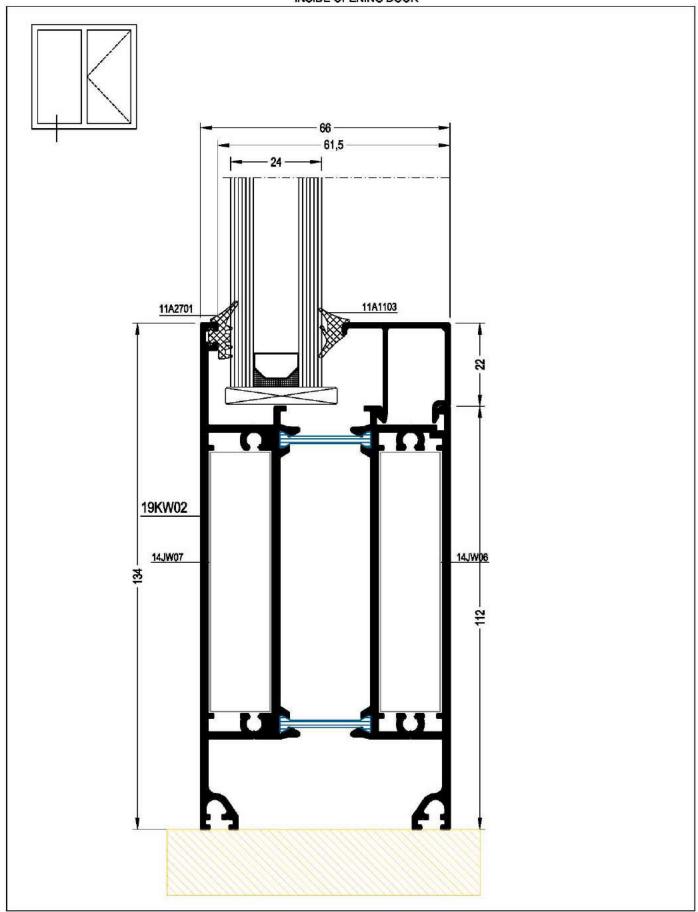
#### INSIDE OPENING DOOR





**DETAILS** 

#### INSIDE OPENING DOOR





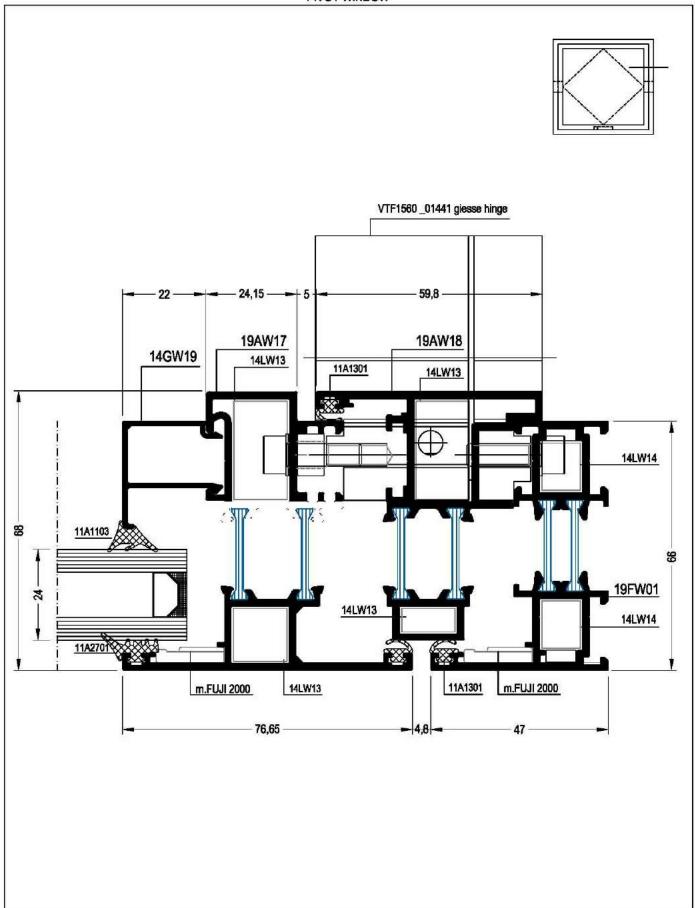
**DETAILS** 

# **PIVOT WINDOW** VTF1560\_01441 glesse hinge 59,8 – 24,15 —<del>–</del> 19AW18 19AW17 14GW19 14LW13 11A1301 14LW13 14LW14 A 11A1103 89 8 19FW01 24 14LW13 14LW14 11A2701 m.FUJI 2000 11A1301 14LW13 m.FUJI 2000 - 76,65 -



DETAILS

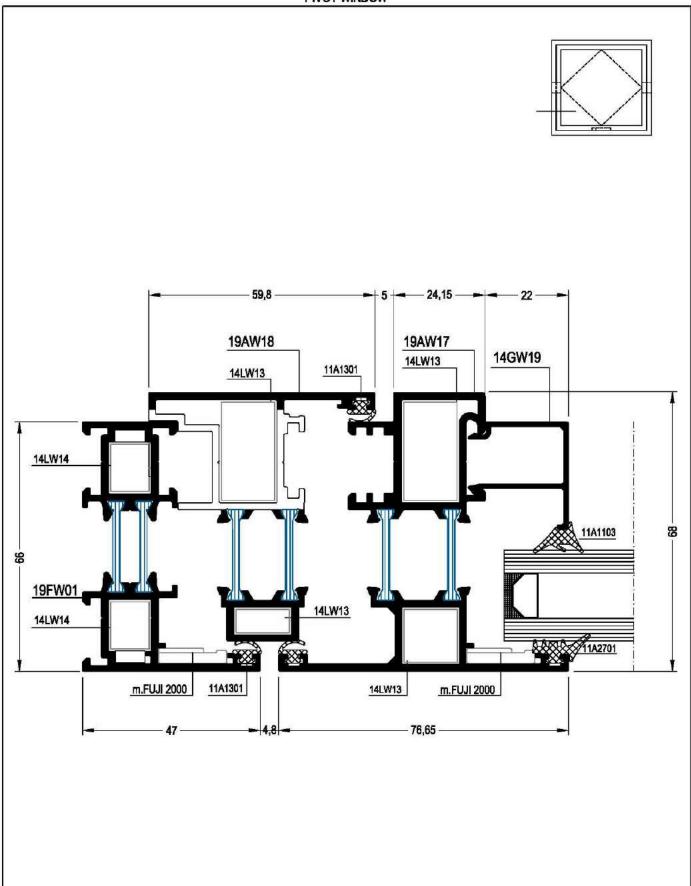
#### **PIVOT WINDOW**





**DETAILS** 

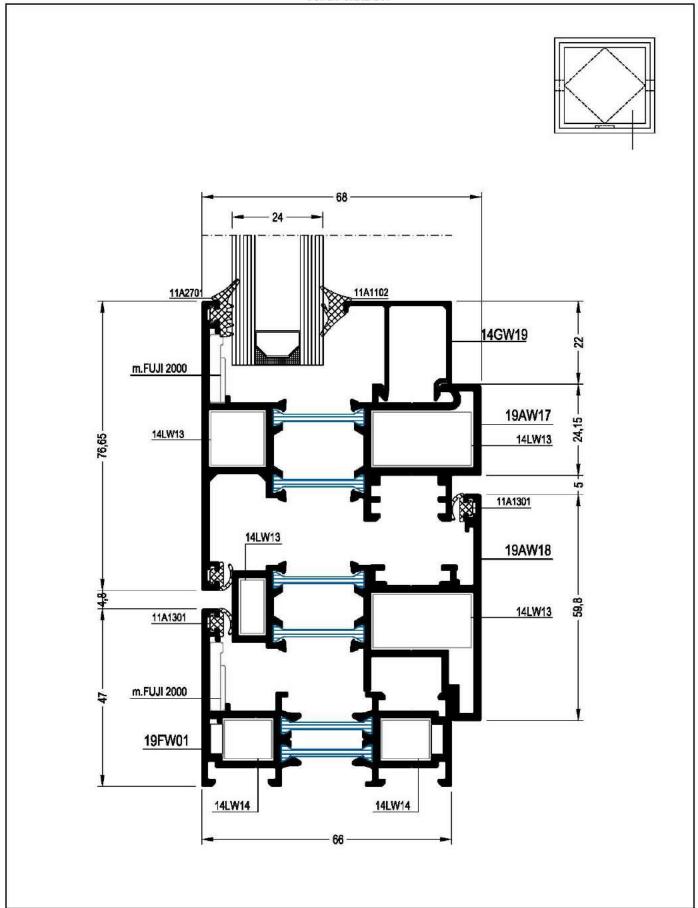
#### PIVOT WINDOW





**DETAILS** 

#### **PIVOT WINDOW**



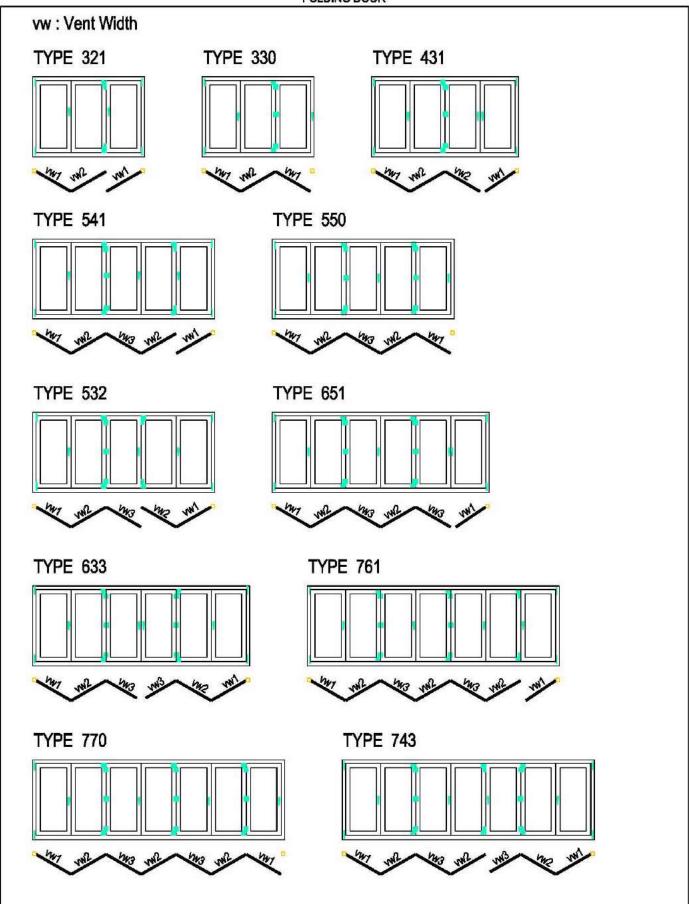


**DETAILS** 

# **PIVOT WINDOW** 66 14LW14 14LW14 19FW01 m.FUJI 2000 11A1301 14LW13 19AW18 14LW13 11A1301 14LW13 14LW13 19AW17 m.FUJI 2000 14GW19 11A2701 11A1103 24

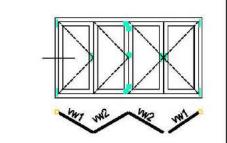


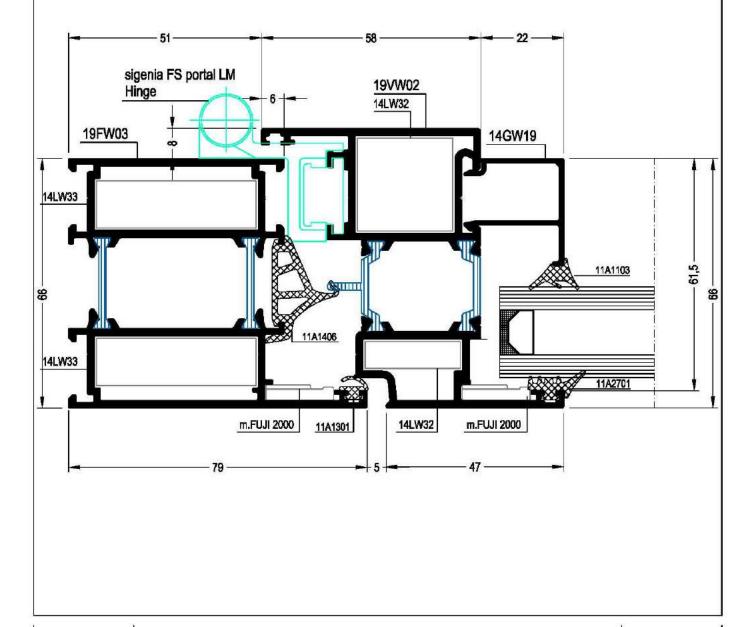
#### **EXTERIOR VIEW**





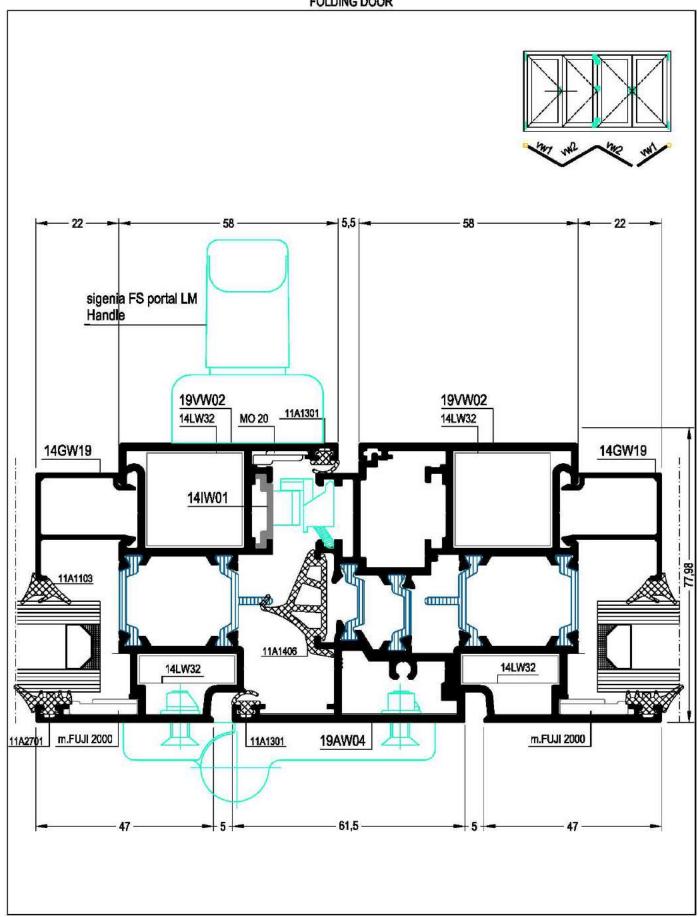
**DETAILS** 







**DETAILS** 



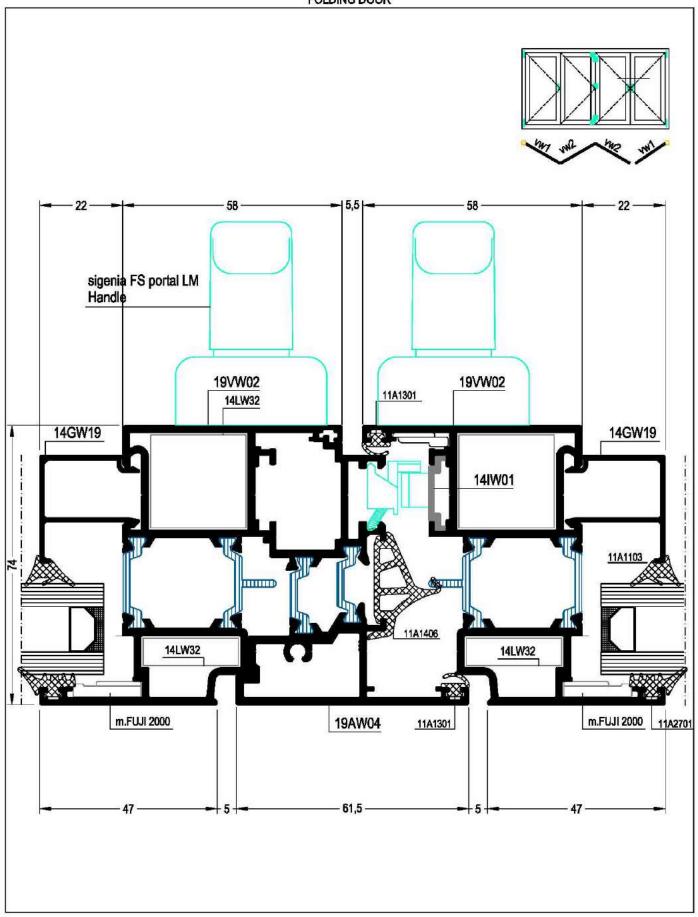


**DETAILS** 

# FOLDING DOOR **-**|5,5|<del>-</del> 22 - 58 -22 sigenia FS portal LM Hinge 19VW02 19VW02 11A1301 14LW32 14GW19 14GW19 JE 11A1103 шшш 14LW32 14LW32 m.FUJI 2000 19AW04 m.FUJI 2000 11A1301 11A2701 61,5 5 -

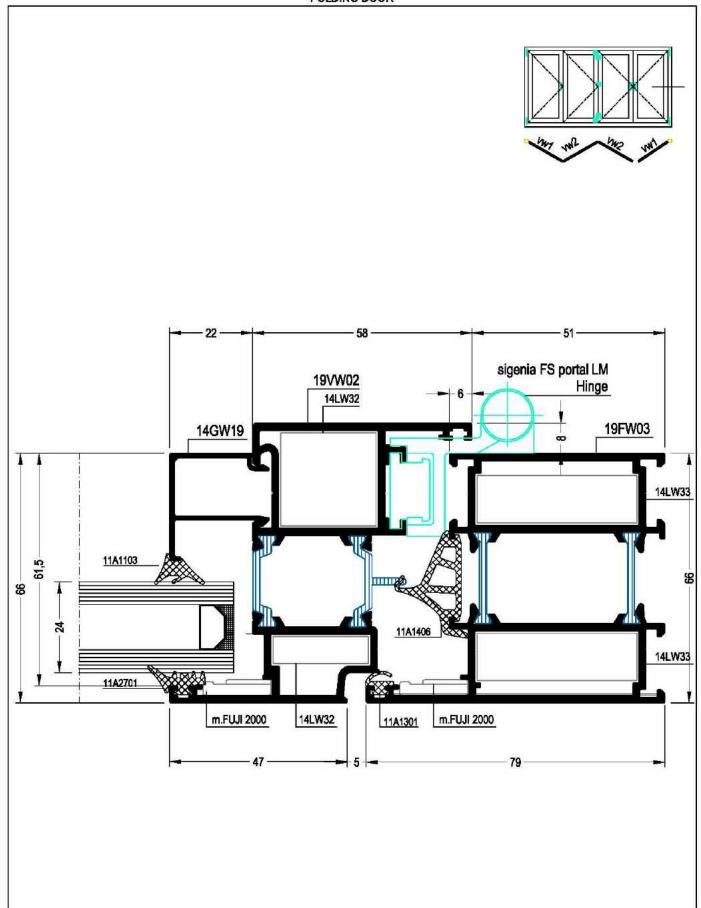


**DETAILS** 





**DETAILS** 



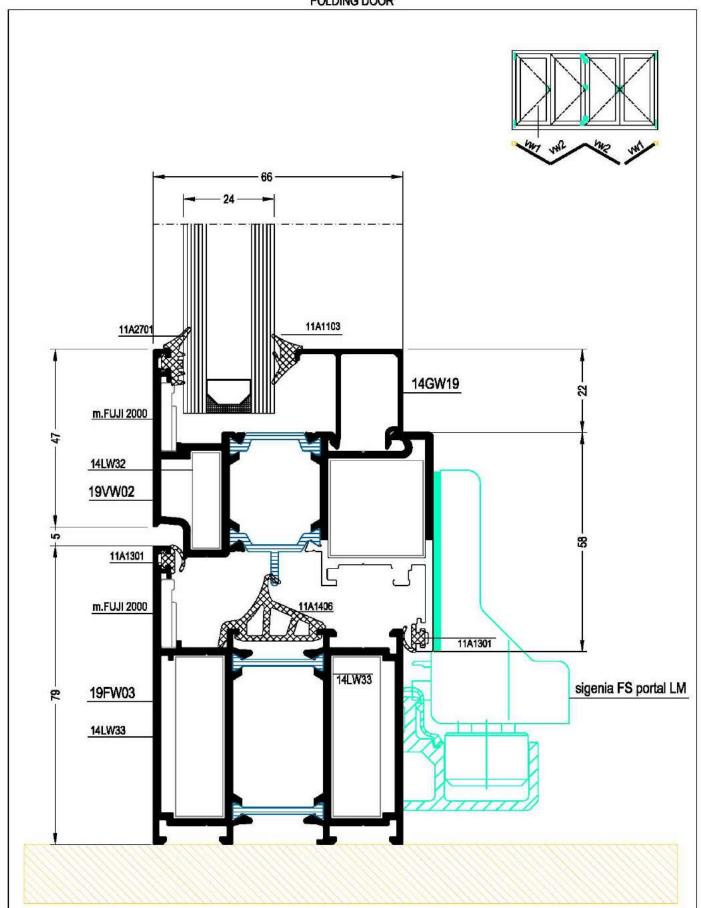


**DETAILS** 

# FOLDING DOOR 19FW09 17AW15 11A1502 sigenia FS portal LMS 19FW03 14LW33 2 14LW33 11A1301 m.FUJI 2000 11A1301 8 19VW02 14LW32 m.FUJI 2000 14GW19 11A2701 11A1103 66

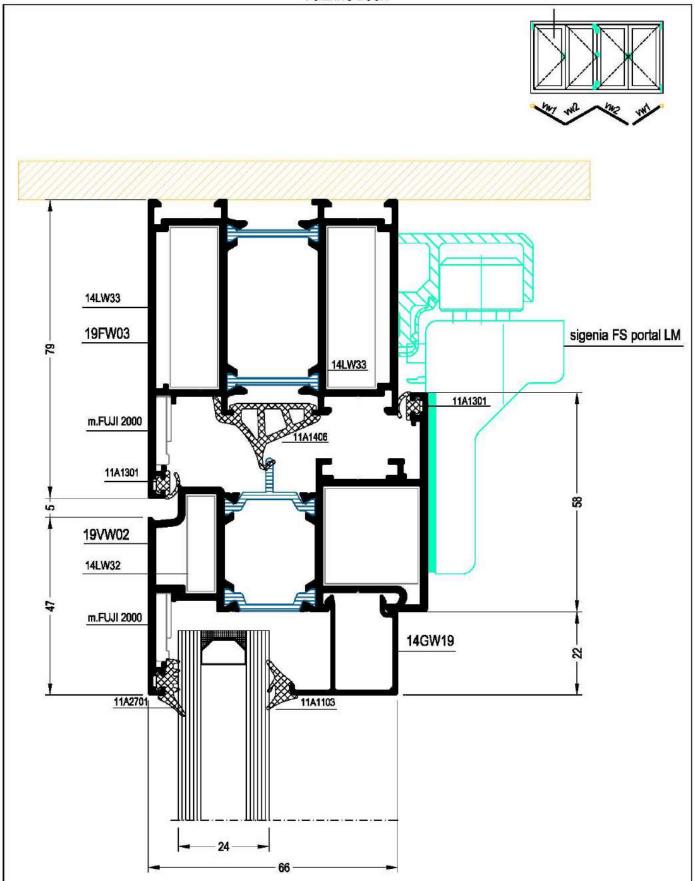


**DETAILS** 





**DETAILS** 





**DETAILS** 

