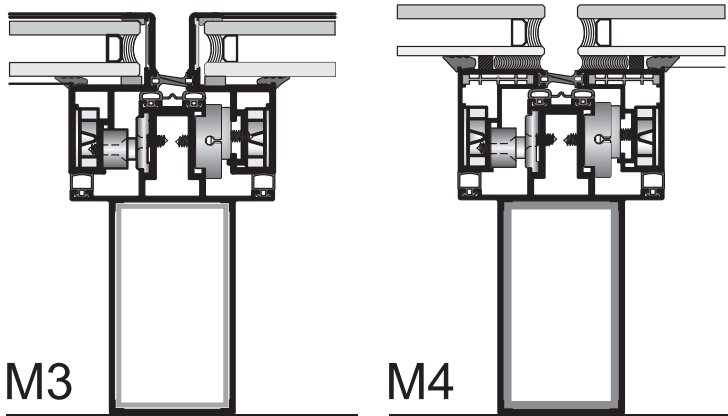




M3 & M4  
Semi & Structural Glazing

**M3 SOLAR SEMI-STRUCTURAL & M4 SOLAR STRUCTURAL**  
**Product lines for structural curtainwall construction in four different versions:**



M3 is distinguished by the presence of a 14mm frame in the exterior perimeter of the glazing panels, and is available in both a plain and a thermal-breaking sash version.

M4 is distinguished by the total absence of aluminum in the exterior perimeter of the glazing panels, and is also available in both a plain and a thermal-breaking sash version.

**Basic characteristics:**

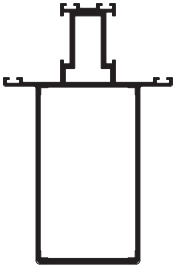
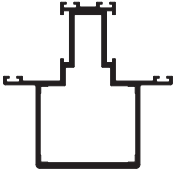
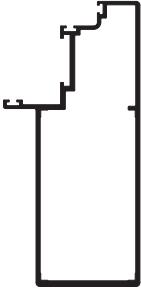
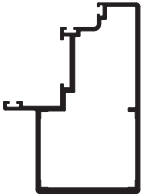
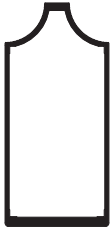

- ✓ Structural curtain wall product line
- ✓ 55mm column and transom width
- ✓ Three-level sealing, using EPDM gaskets
- ✓ Option of plain or thermal-breaking glazing sashes
- ✓ Option of constructing hopper windows and main entrances completely integrated in the façade (using a step sash from M15000 Prestige).
- ✓ Excellent sealing and water outflow provision
- ✓ Specially designed profiles for angular constructions







TECHNICAL SPECIFICATIONS OF PROFILES	
Aluminum alloy	AlMgSi (EN AW 6063)
Hardness	12 Webster or 70 HB minimum
Minimum Powder Coating Thickness	75µm minimum
Profile Thickness (min-max)	1,8 – 5,0 mm
Profile Geometry Control	EN DIN 12020-2 Compliant


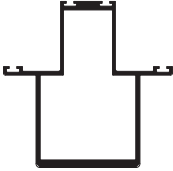



TECHNICAL SPECIFICATIONS OF SYSTEM TYPOLOGIE	
Basic column and transom width	55mm
Maximum Moment of Inertia sustained (without metallic beam support)	Up to 493,37cm <sup>4</sup>
Glazing supported	Single, double or triple, from 6 up to 32 mm
Sealing	Three-level sealing, using EPDM gaskets

**Certifications:**

- ✓ The design, the production process, and the quality control of all profiles produced by Alumil are certified with ISO 9001.
- ✓ The process of electrostatic powder coating is certified by QUALICOAT and RAL (GSB) in all Plants operated by Alumil.

Profile	Profile NO.	Weight gr/m	X,Y mm	Ix cm <sup>4</sup>	Jy cm <sup>4</sup>	SCALE 1:4
	M 9951	2850	89.40 - 137.90	222.41	49.81	M3&M4
	M 9952	2255	89.40 - 87.90	66.82	34.30	M3&M4
	M 9954	2711	72.20 - 150.90	248.38	50.63	M3&M4
	M 109954	2117	72.20 - 100.90	87.07	34.01	M3&M4
	M 9945	2363	55.00 - 118.40	154.19	38.18	M3&M4
	M 9958	652	40.20 - 49.80	8.28	1.43	M3&M4

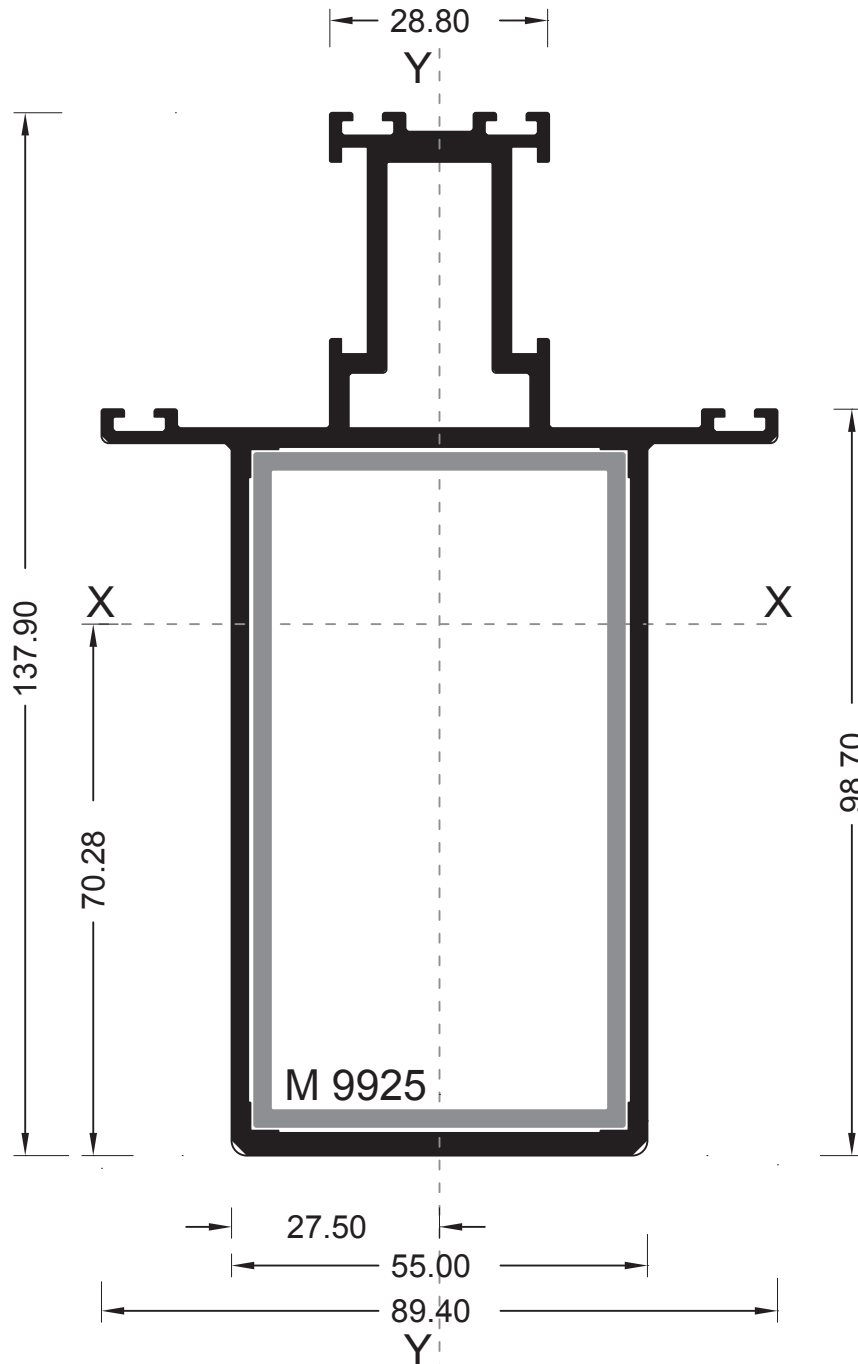
Profile	Profile NO.	Weight gr/m	X,Y mm	Ix cm <sup>4</sup>	Jy cm <sup>4</sup>	SCALE 1:4
	M 9982	783	37.60 - 69.50	10.46	5.44	M3
	M 9980	873	37.60 - 69.50	12.60	5.03	M3
	M 9983	989	37.60 - 69.50	13.34	6.68	M3
	M 9983/A	1043	37.60 - 69.50	16.07	6.18	M3
Structural 	M 9986	736	37.60 - 45.40	6.08	3.32	M4
Structural 	M 9984	800	37.60 - 45.40	7.36	3.36	M4

Profile	Profile NO.	Weight gr/m	X,Y mm	Ix cm <sup>4</sup>	Jy cm <sup>4</sup>	SCALE 1:4
	M 9955	1056	89.40 - 39.00	9.35	16.60	M3&M4
	M 9950	2013	89.40 - 87.90	67.15	35.09	M3&M4
	M 109955	876	59.20 - 39.00	4.86	11.47	M3&M4
	M 9925	1588	49.00 - 89.10	62.99	24.73	M3&M4
	M 9926	994	49.00 - 39.10	8.88	12.68	M3&M4

**M 9951**

**MAIN MULLION**

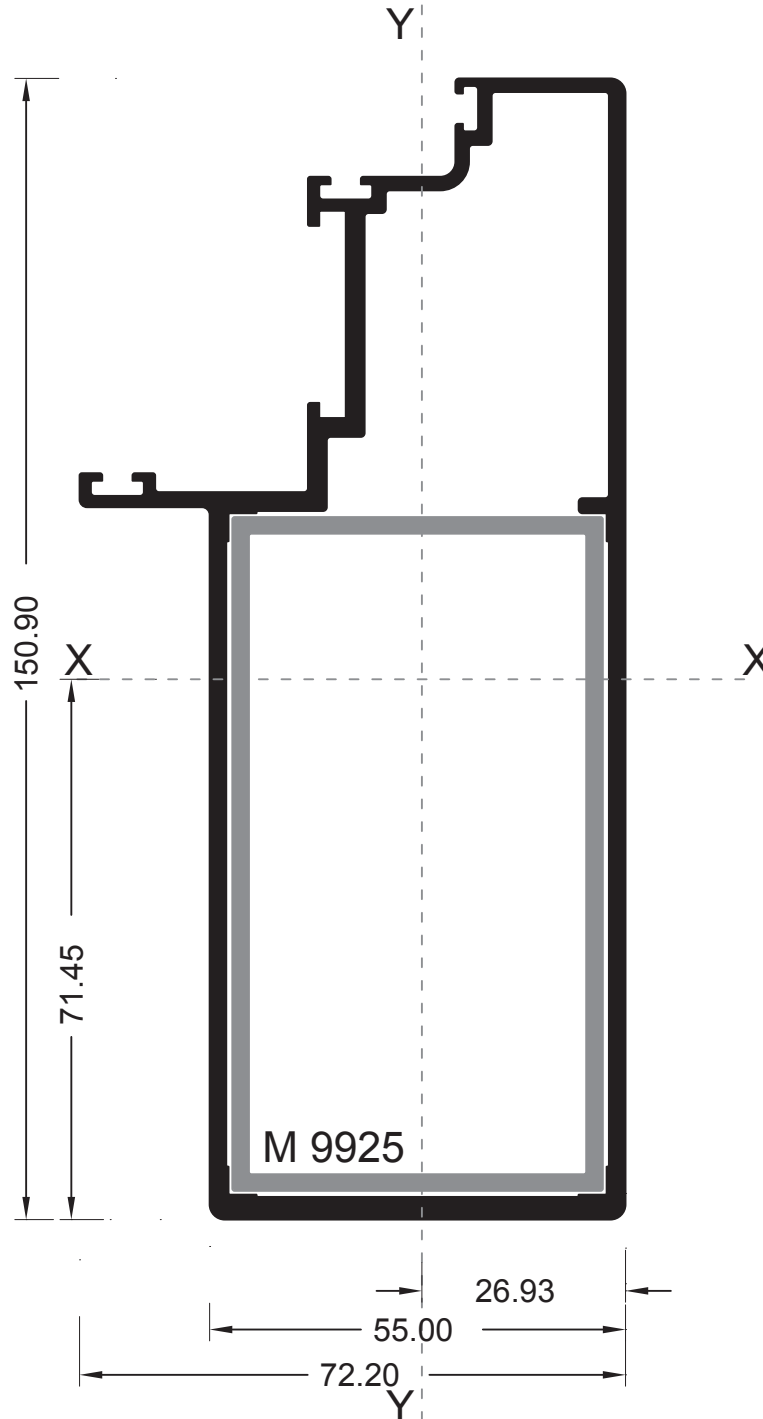
W = 2850 gr/m  
Ix = 222,41 cm<sup>4</sup>  
Jy = 49,81 cm<sup>4</sup>



**M 9954**

**RIGHT/LEFT END MAIN MULLION**

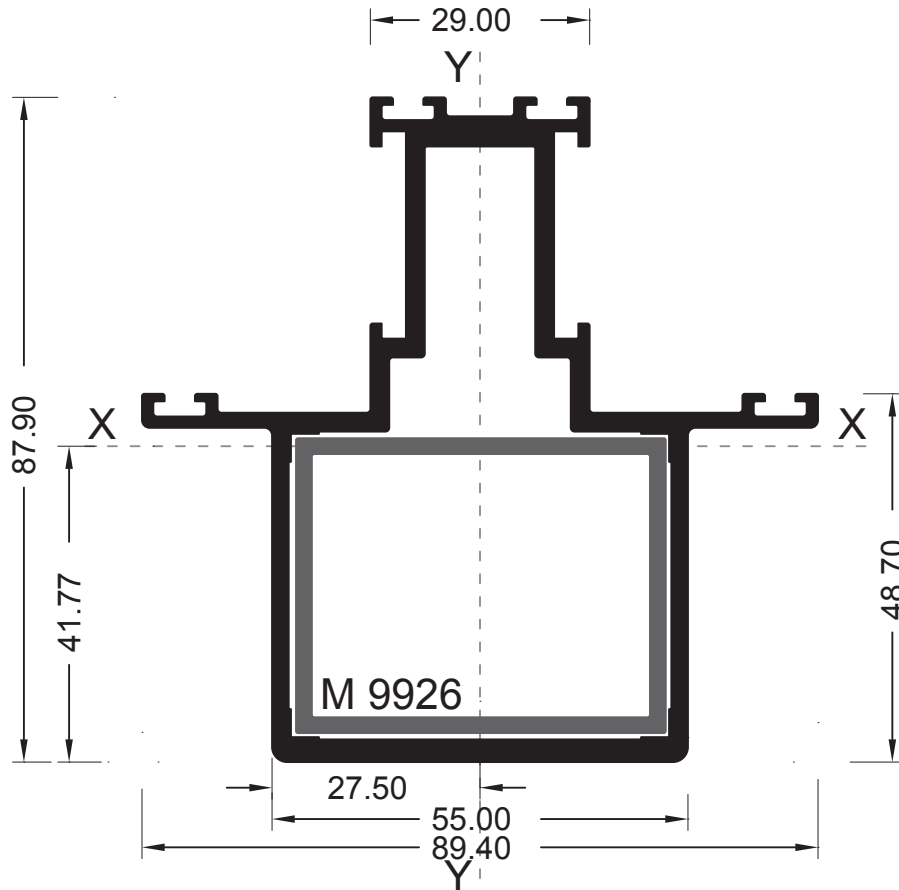
W = 2711 gr/m  
Ix = 248,38 cm<sup>4</sup>  
Jy = 50,63 cm<sup>4</sup>



**M 9952**

**SMALL MULLION**

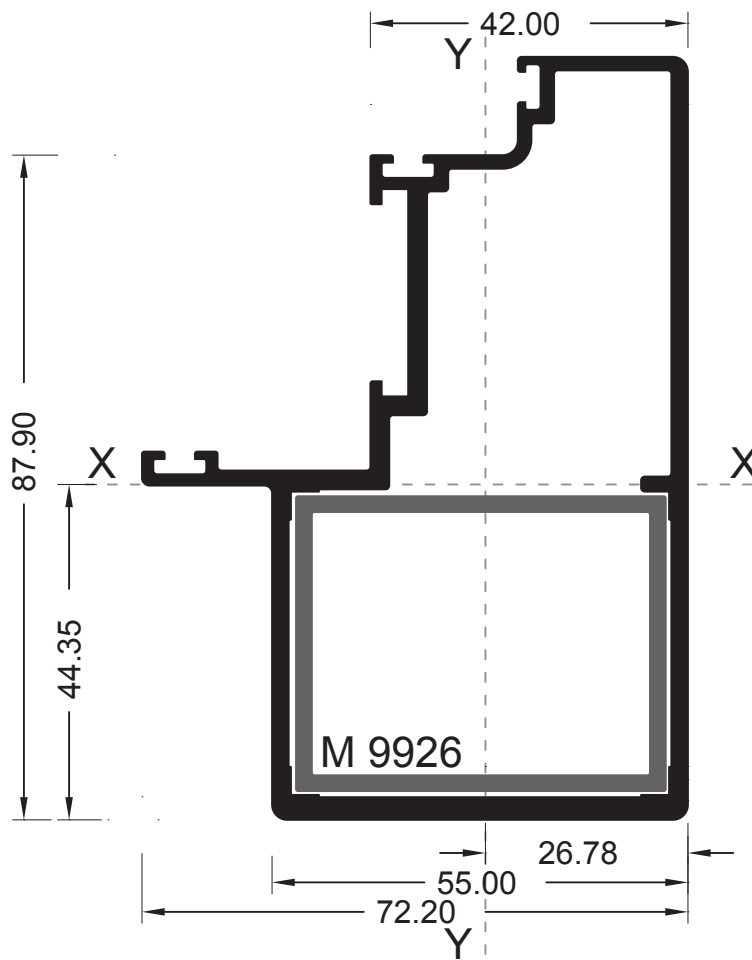
W = 2255 gr/m  
Ix = 66,82 cm<sup>4</sup>  
Jy = 34,30 cm<sup>4</sup>



**M 109954**

**RIGHT/LEFT END SMALL MULLION**

W = 2117 gr/m  
Ix = 85,16 cm<sup>4</sup>  
Jy = 35,91 cm<sup>4</sup>



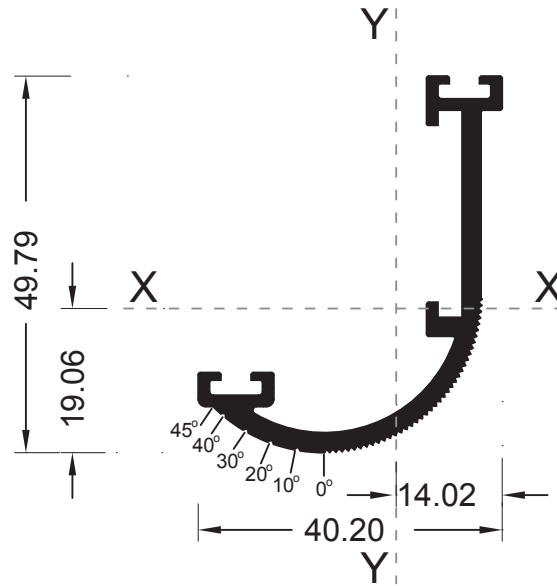


**M 9958**

**VARIABLE ANGLE**

90° - 175°

W = 652 gr/m  
Ix = 8,28 cm<sup>4</sup>  
Jy = 1,43 cm<sup>4</sup>

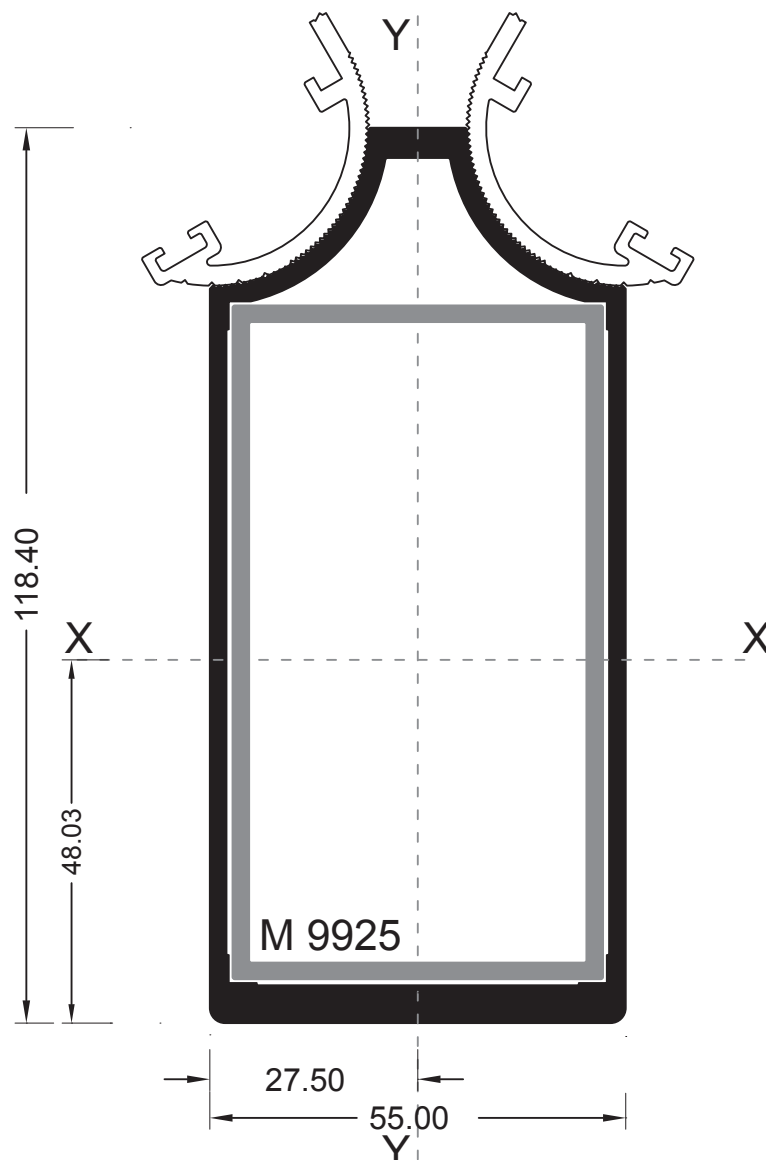


**M 9945**

**VARIABLE ANGLE MULLION**

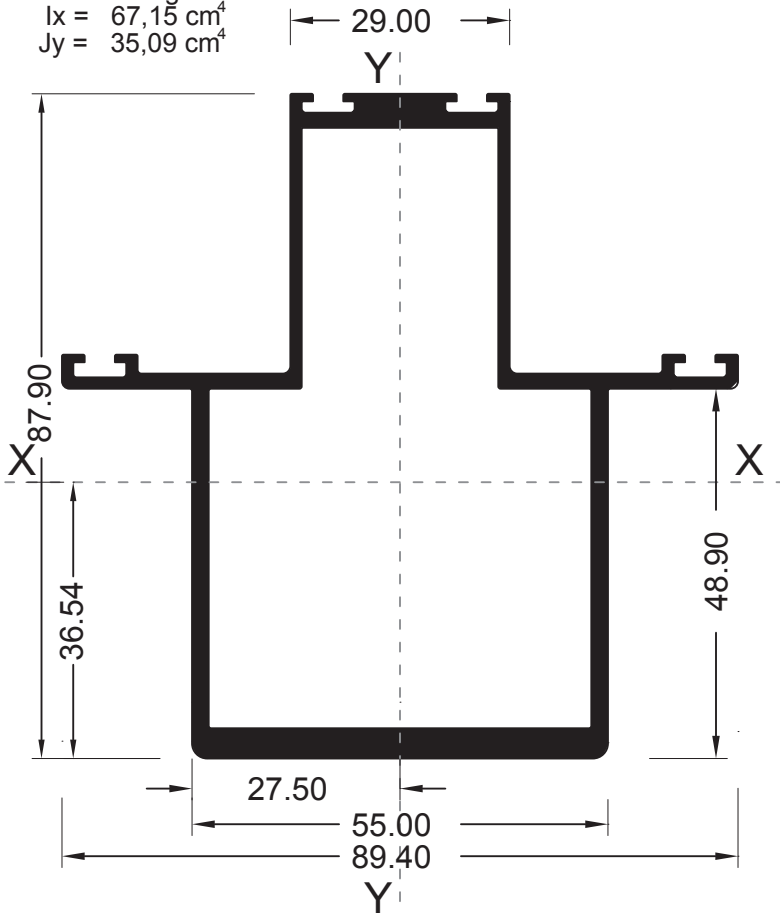
90° - 175°

W = 2363 gr/m  
Ix = 154,19 cm<sup>4</sup>  
Jy = 38,18 cm<sup>4</sup>



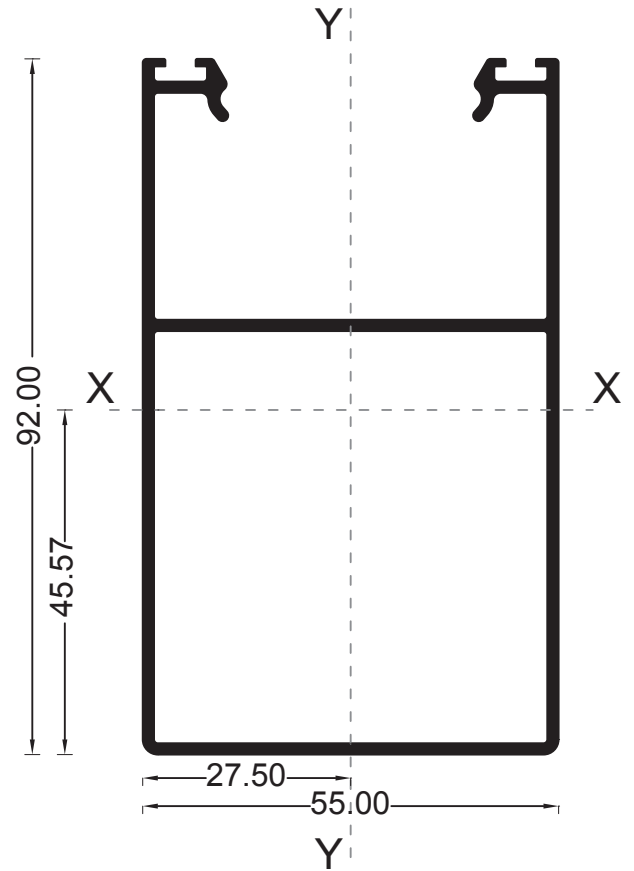
**M 9950 REINFORCED TRANSOM**

W = 2013 gr/m  
Ix = 67,15 cm<sup>4</sup>  
Jy = 35,09 cm<sup>4</sup>



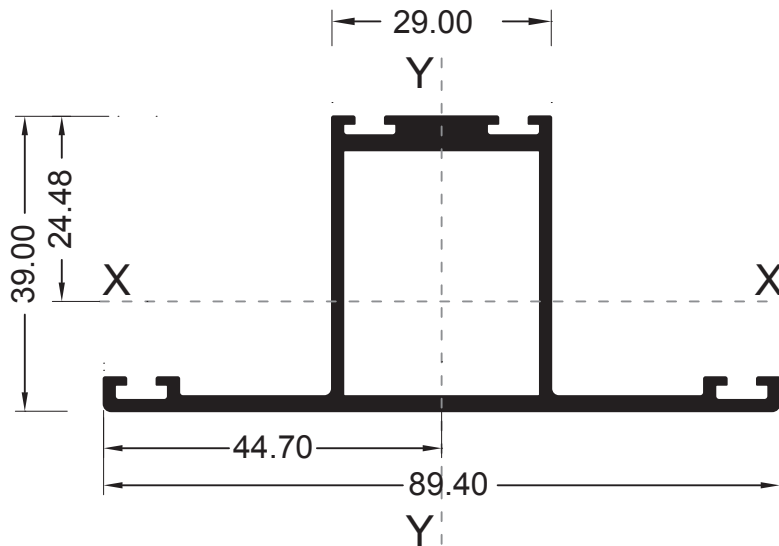
**M 9974 DECORATIVE PROFILE**

W = 1316 gr/m  
Ix = 46,22 cm<sup>4</sup>  
Jy = 25,05 cm<sup>4</sup>



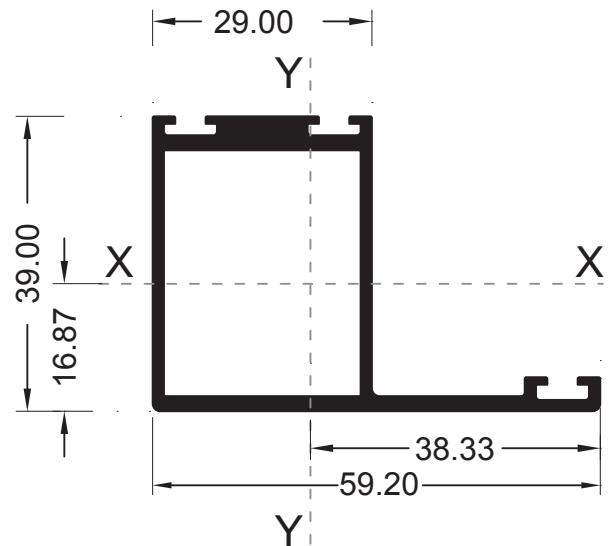
**M 9955 TRANSOM**

W = 1056 gr/m  
Ix = 9,35 cm<sup>4</sup>  
Jy = 16,60 cm<sup>4</sup>



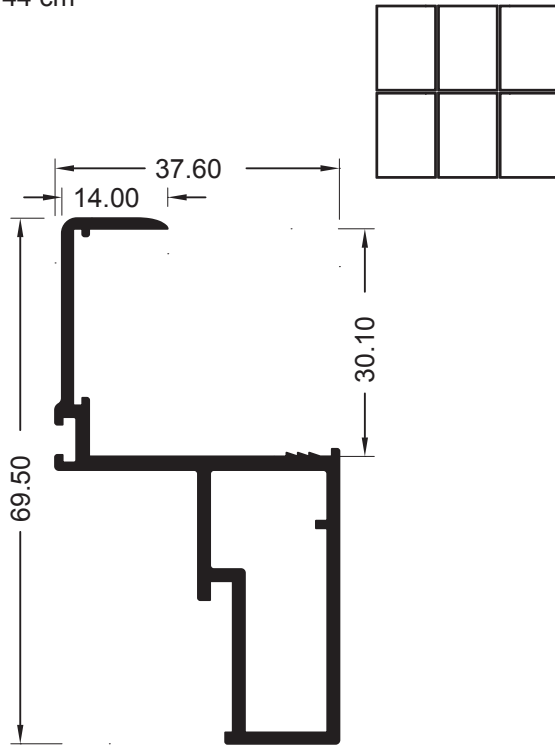
**M 109955 END TRANSOM**

W = 876 gr/m  
Ix = 7,90 cm<sup>4</sup>  
Jy = 8,43 cm<sup>4</sup>



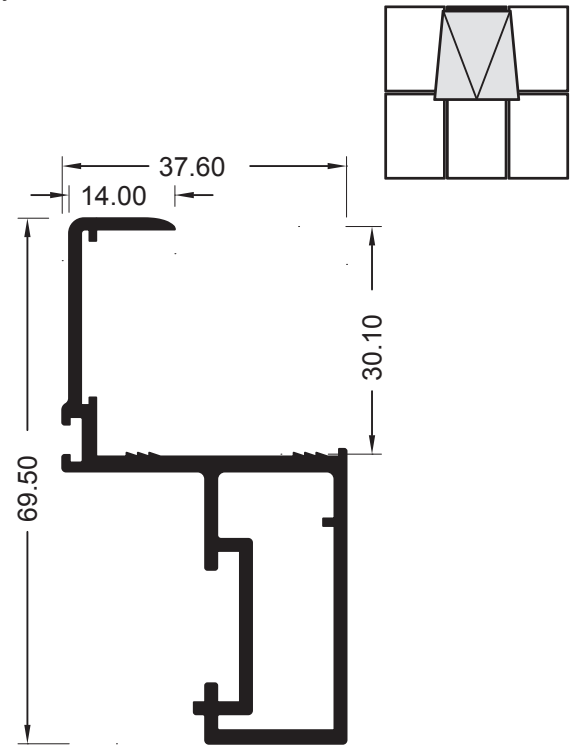
**M 9982** SOLAR SEMI STRUCTURE  
FIXED SASH FOR DOUBLE GLAZING

W = 783 gr/m  
Ix = 10,46 cm<sup>4</sup>  
Jy = 5,44 cm<sup>4</sup>



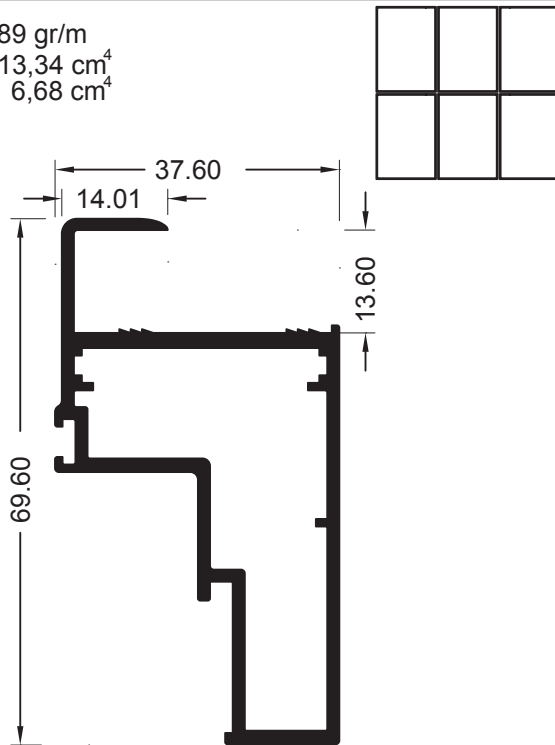
**M 9980** SOLAR SEMI STRUCTURE  
MOVABLE SASH FOR DOUBLE GLAZING

W = 873 gr/m  
Ix = 12,60 cm<sup>4</sup>  
Jy = 5,03 cm<sup>4</sup>



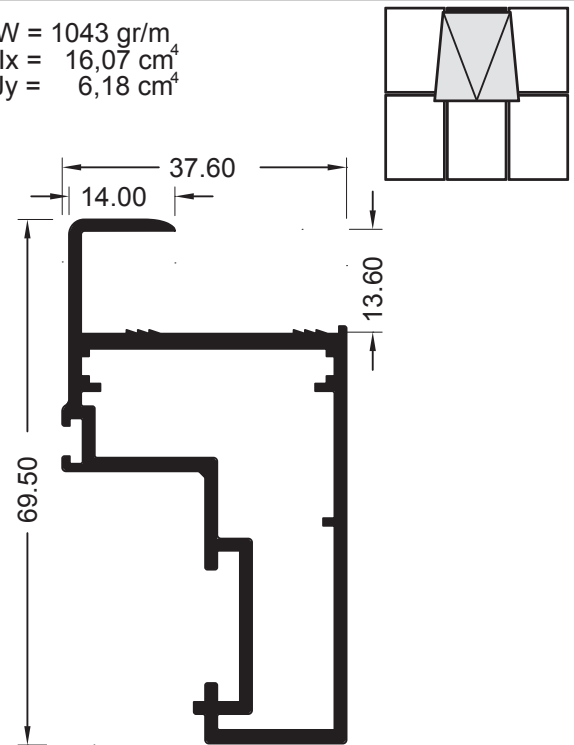
**M 9983** SOLAR SEMI STRUCTURE  
FIXED SASH FOR SINGLE GLAZING

W = 989 gr/m  
Ix = 13,34 cm<sup>4</sup>  
Jy = 6,68 cm<sup>4</sup>



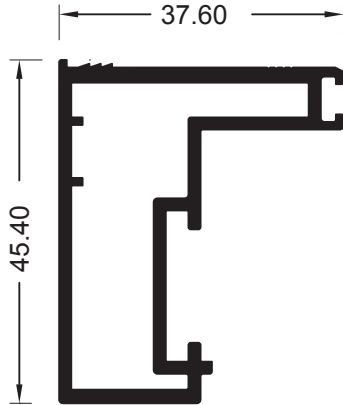
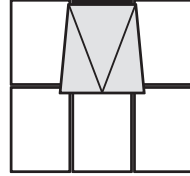
**M 9983/A** SOLAR SEMI STRUCTURE  
MOVABLE SASH FOR SINGLE GLAZING

W = 1043 gr/m  
Ix = 16,07 cm<sup>4</sup>  
Jy = 6,18 cm<sup>4</sup>



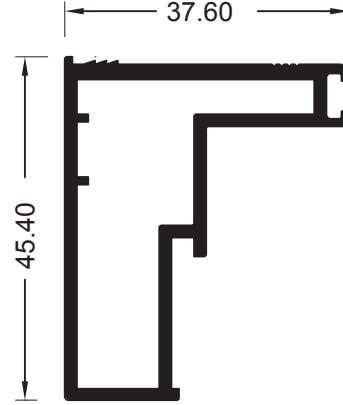
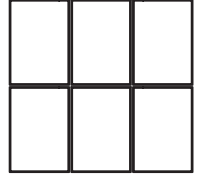
**M 9984** SOLAR STRUCTURE  
MOVABLE SASH

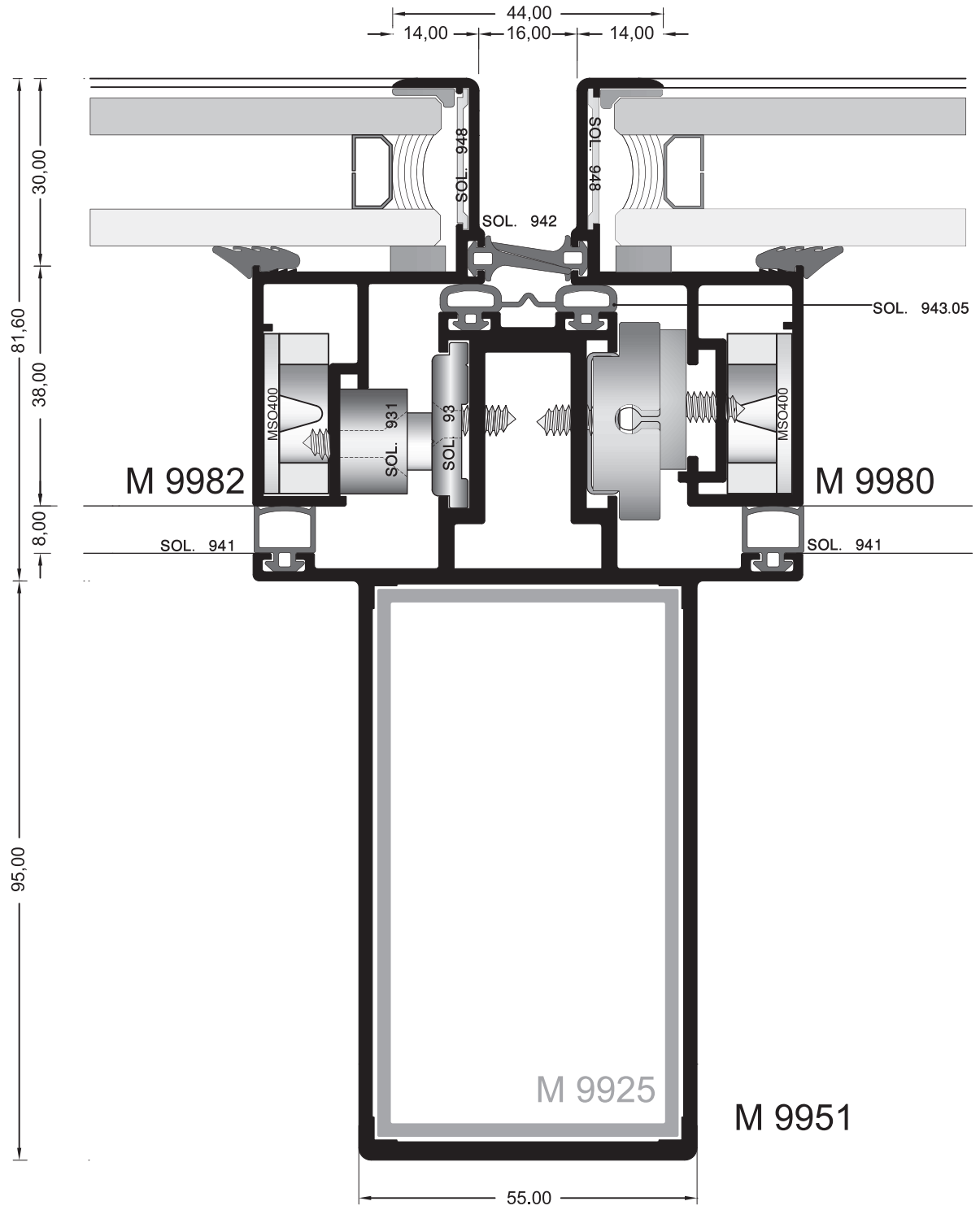
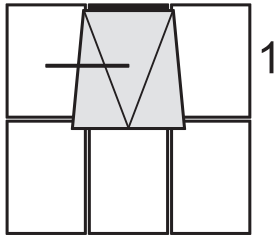
W = 800 gr/m  
Ix = 7,36 cm<sup>4</sup>  
Jy = 3,36 cm<sup>4</sup>

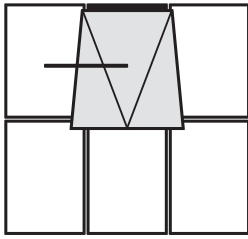


**M 9986** SOLAR STRUCTURE  
FIXED SASH

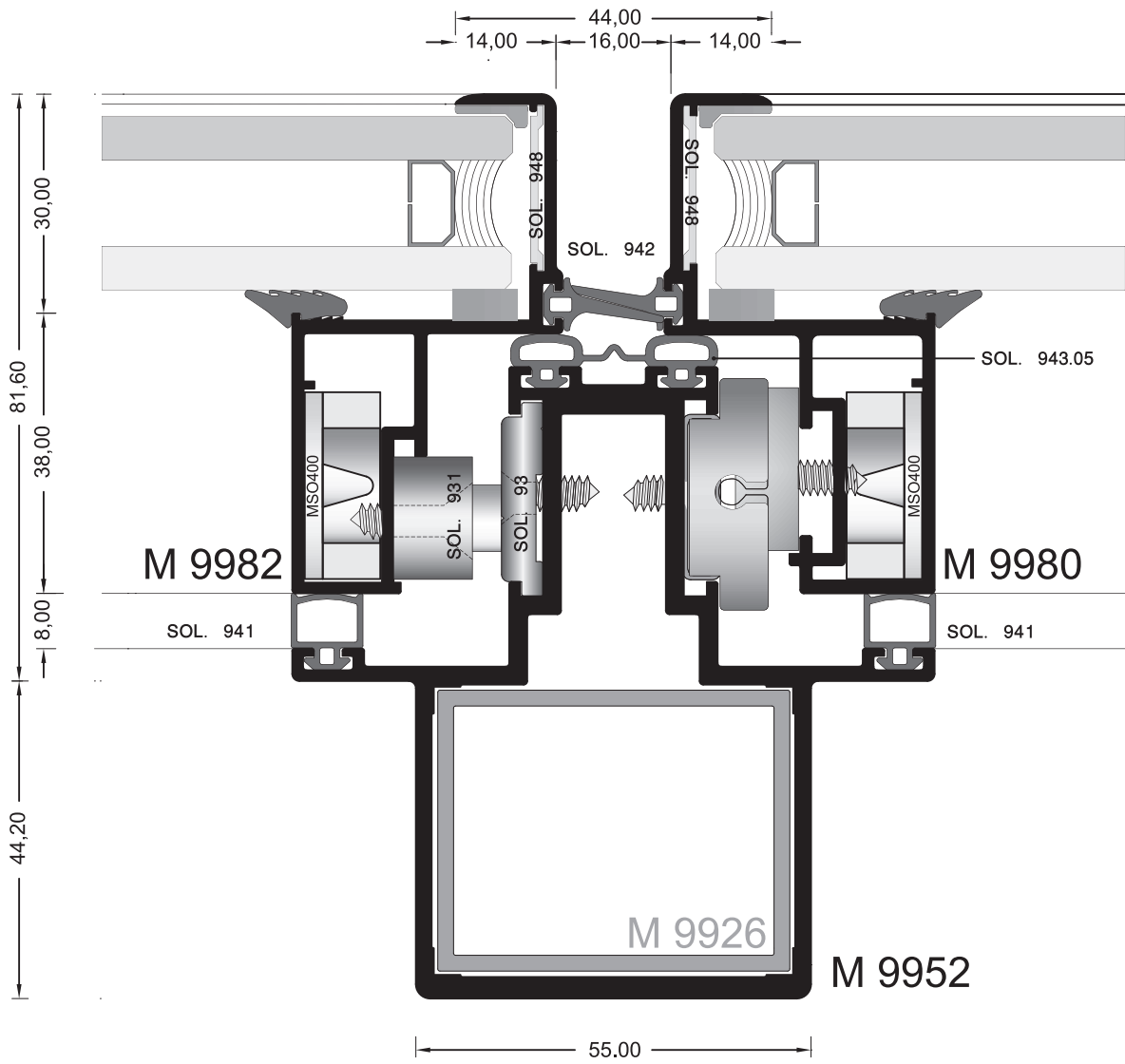
W = 736 gr/m  
Ix = 6,08 cm<sup>4</sup>  
Jy = 3,32 cm<sup>4</sup>

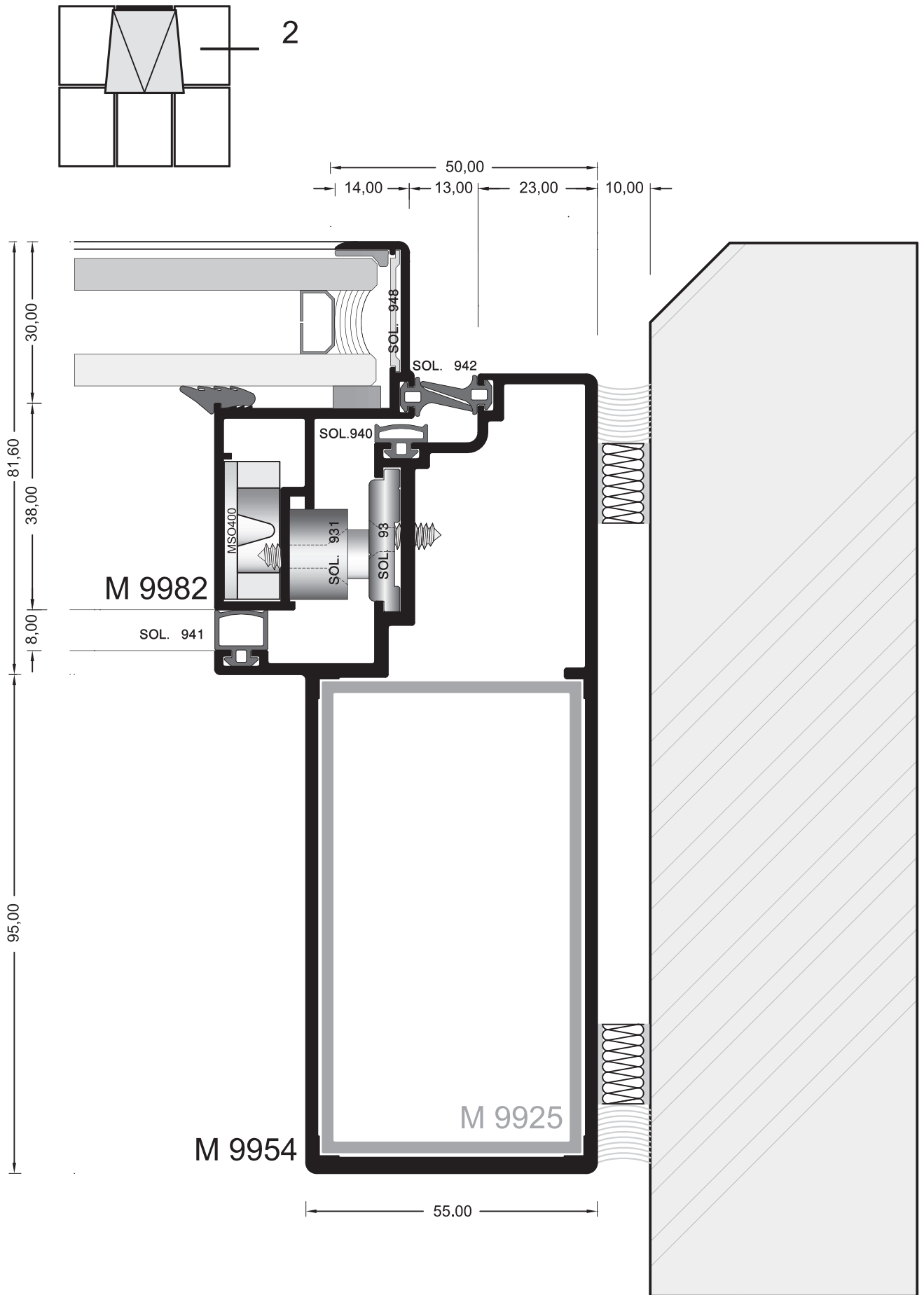


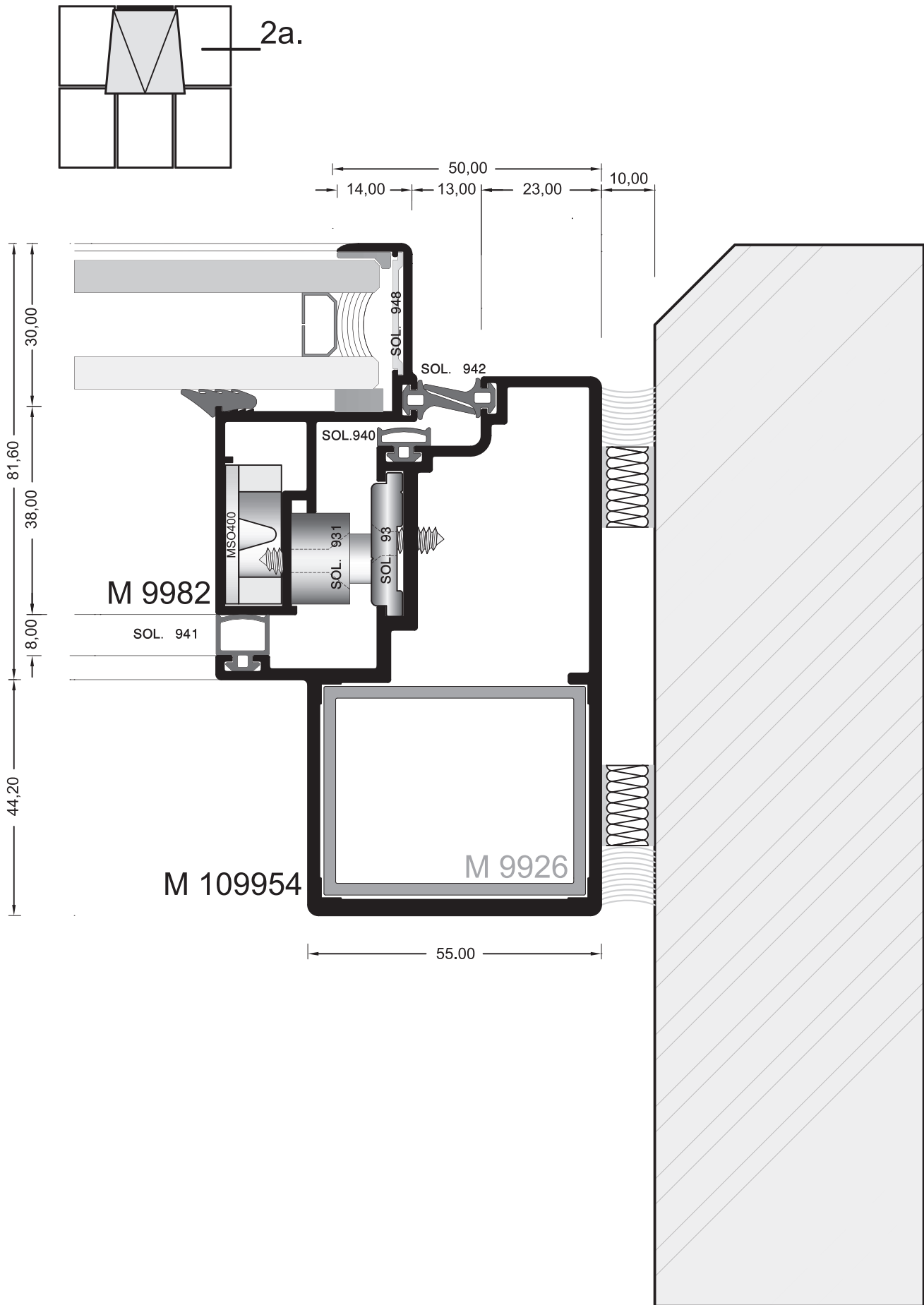




1a.

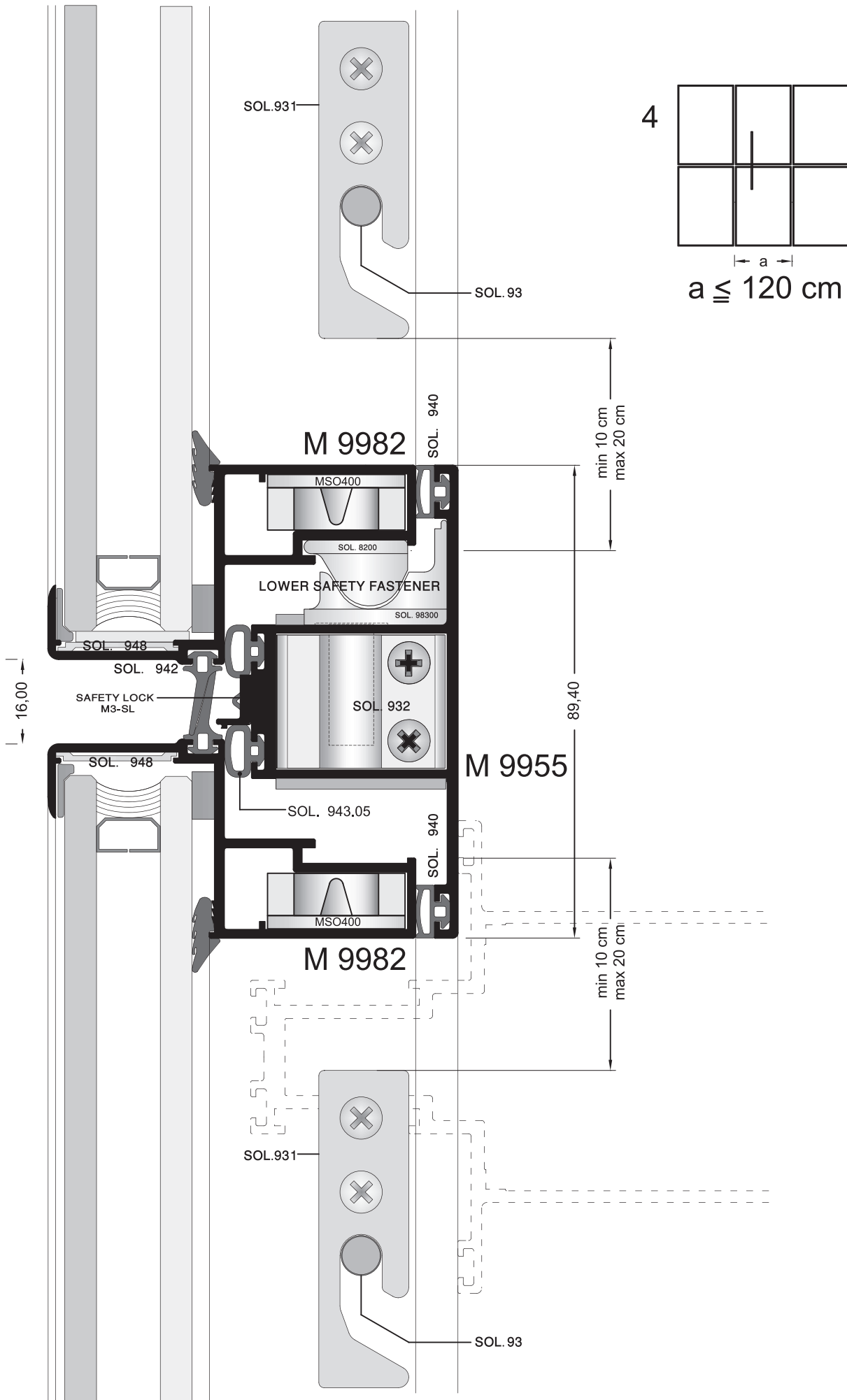




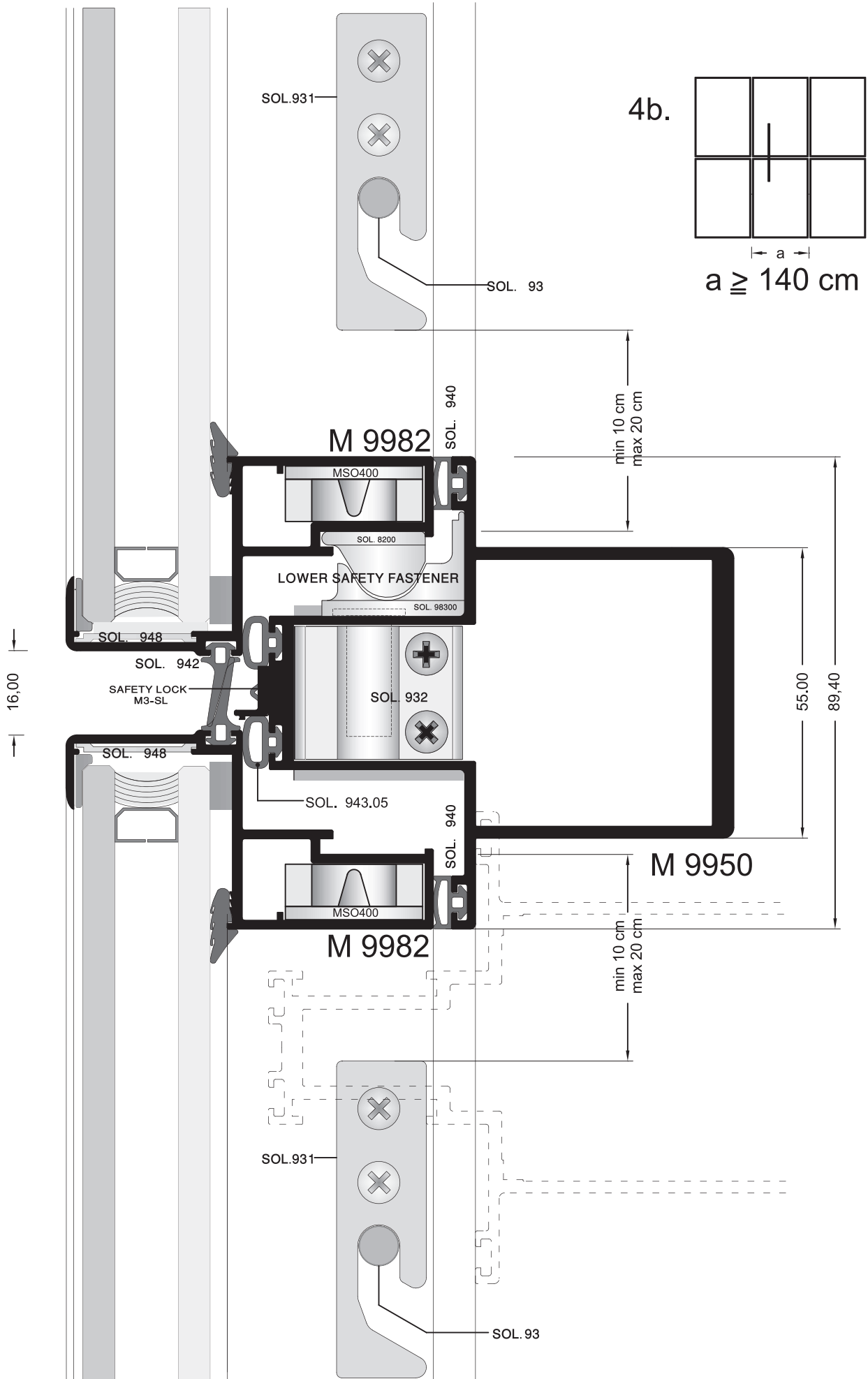


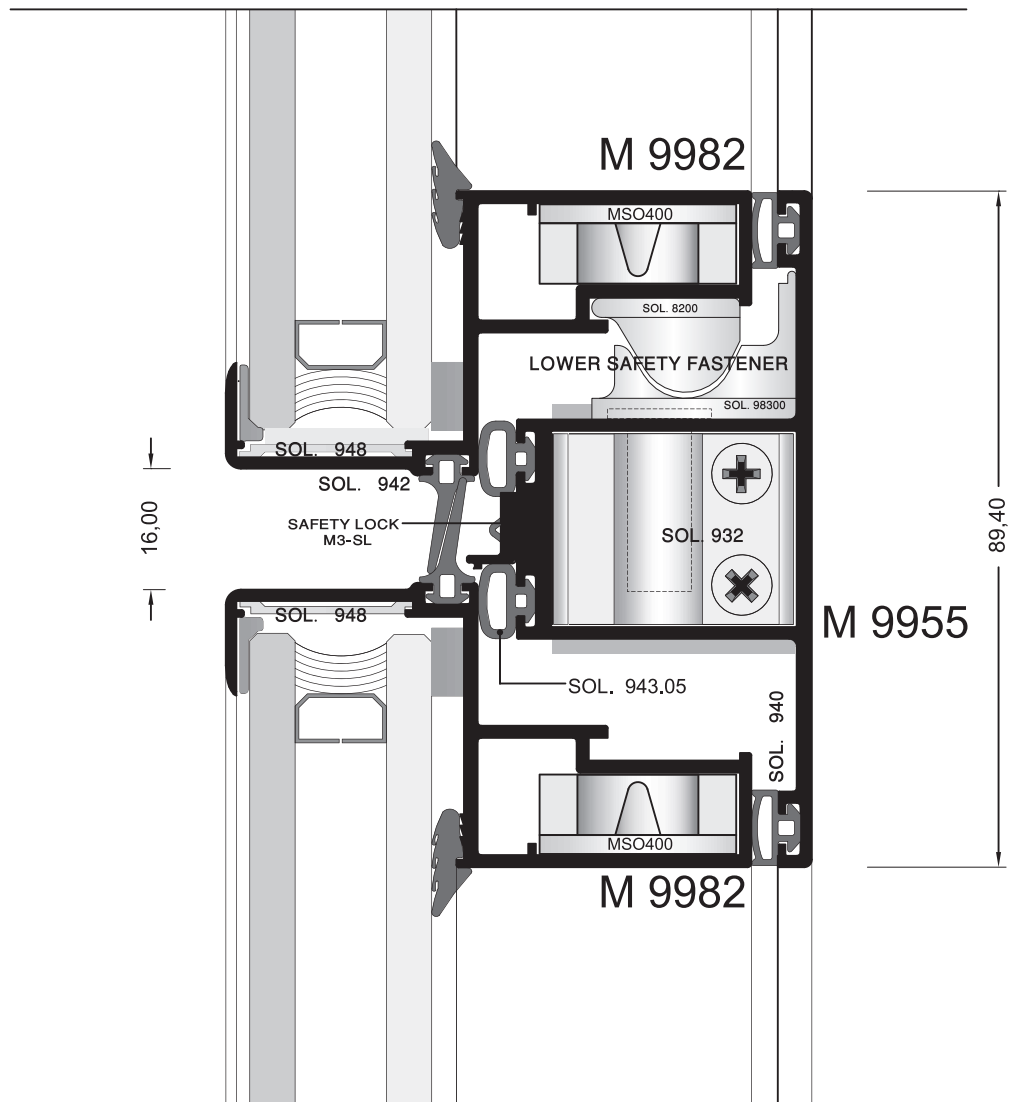
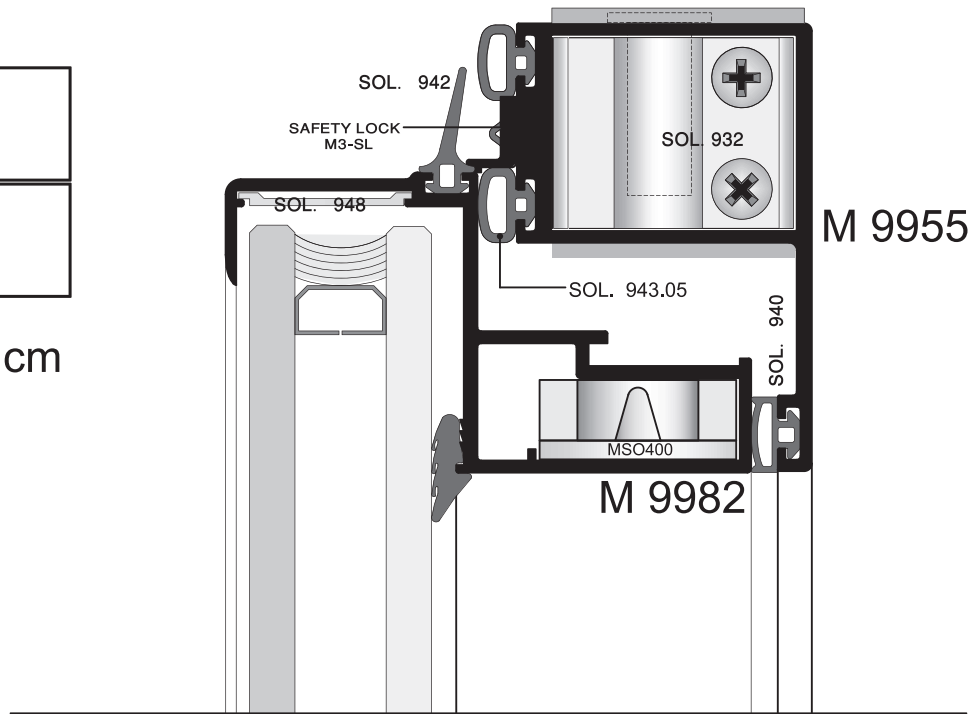
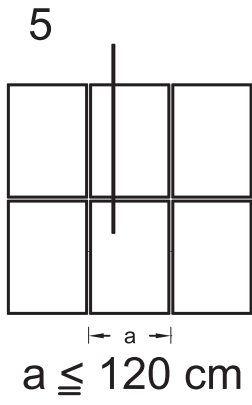


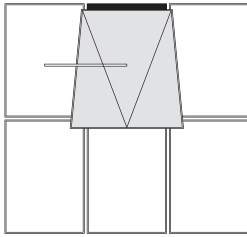




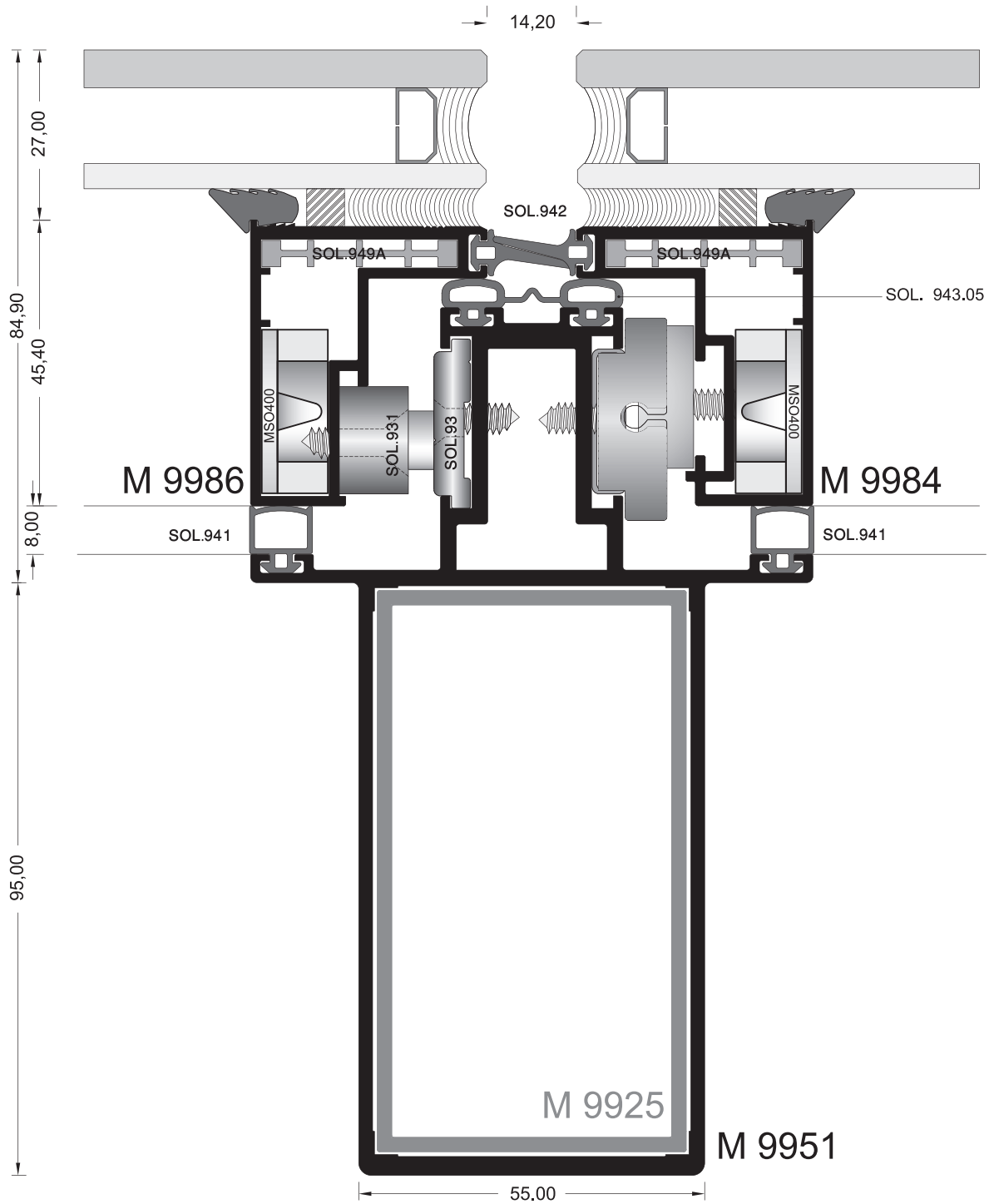


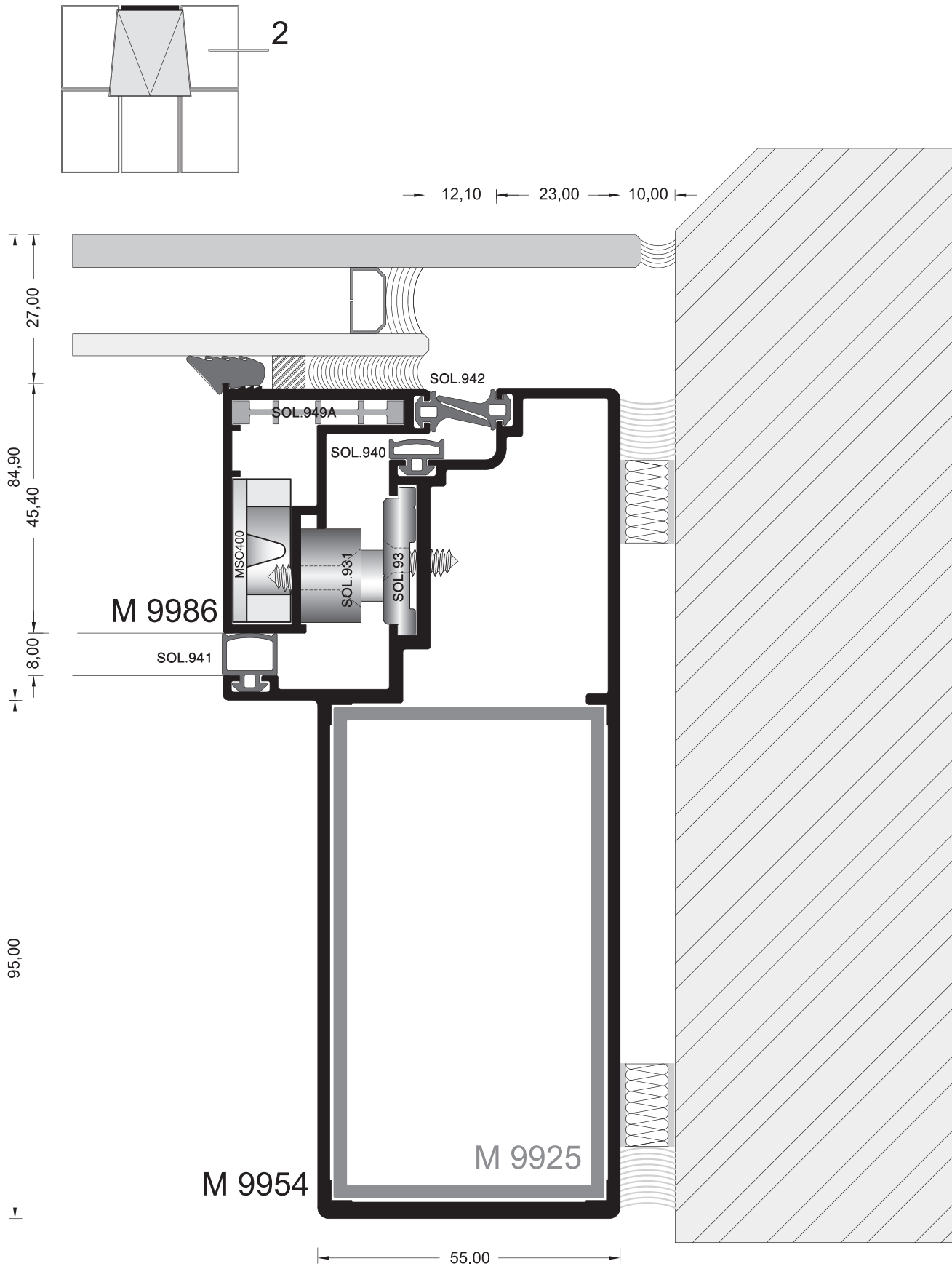


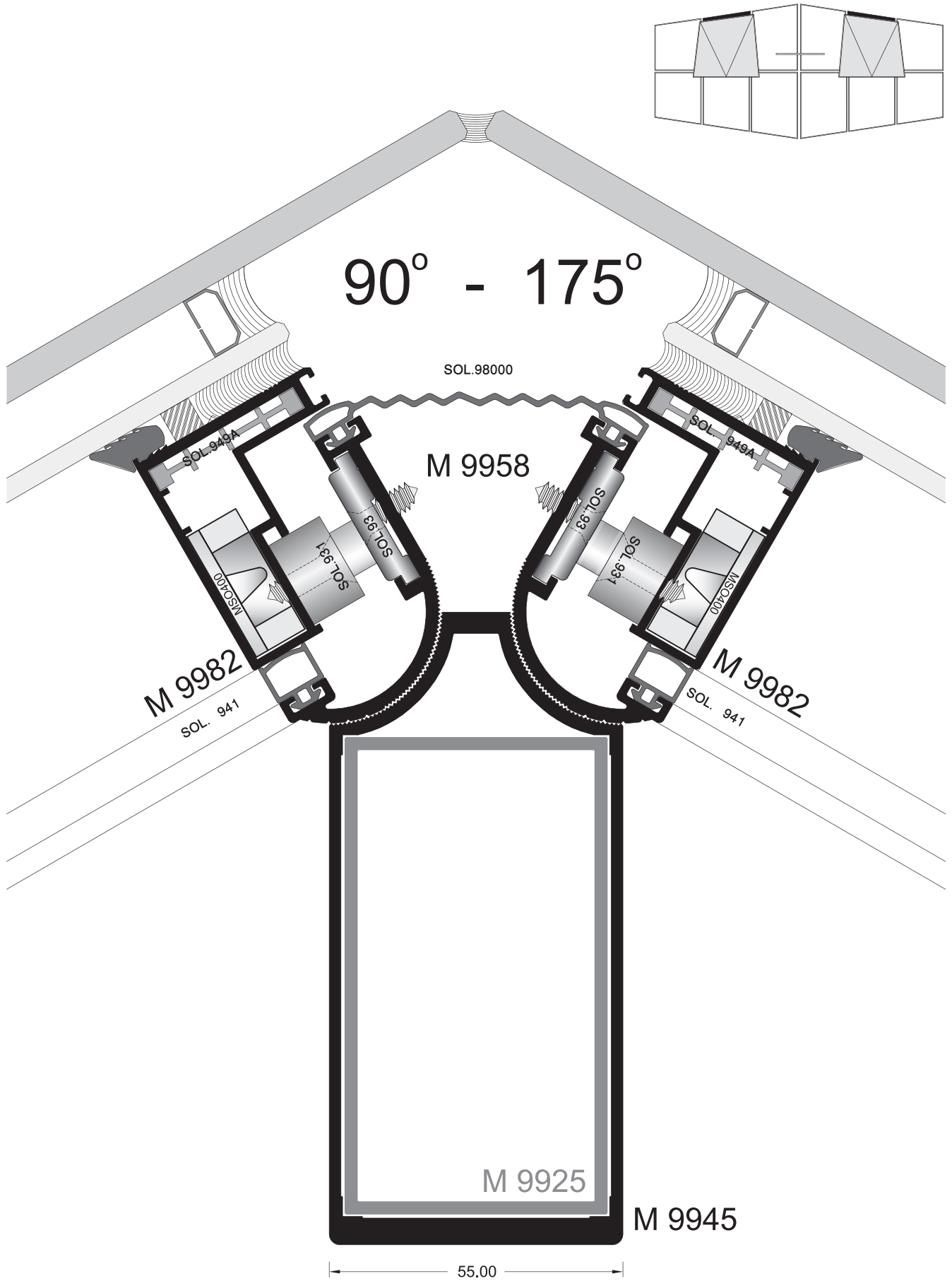




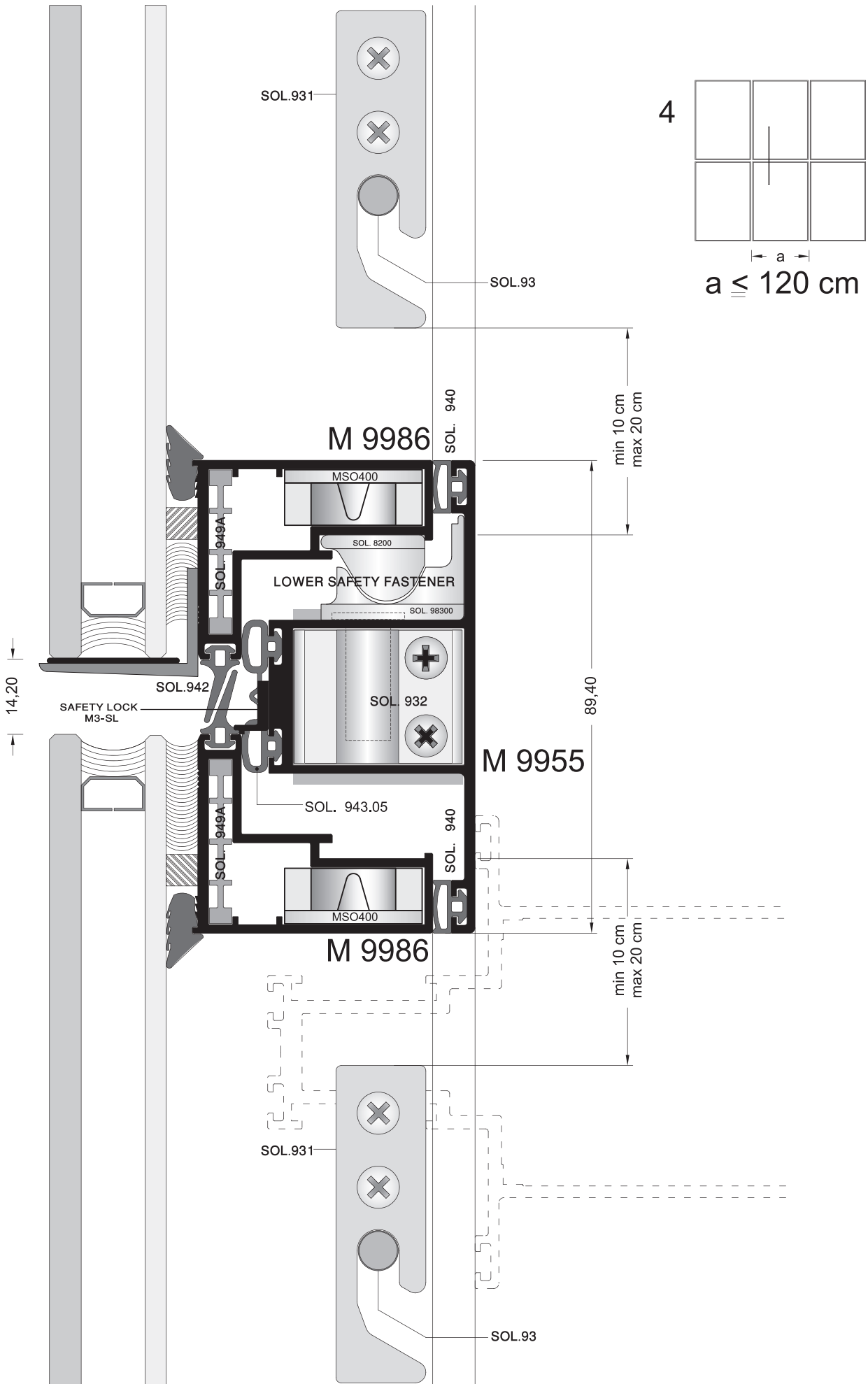
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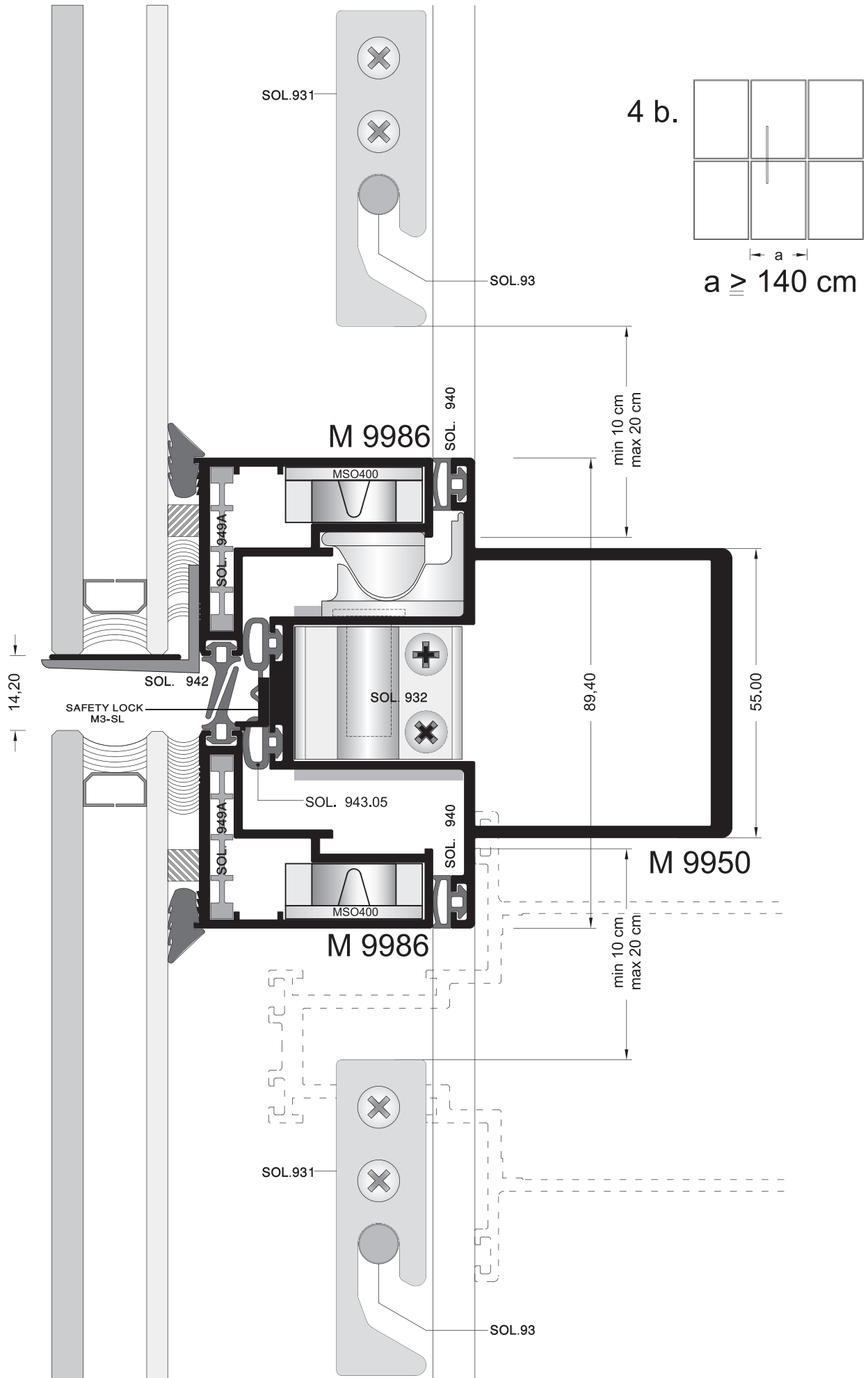


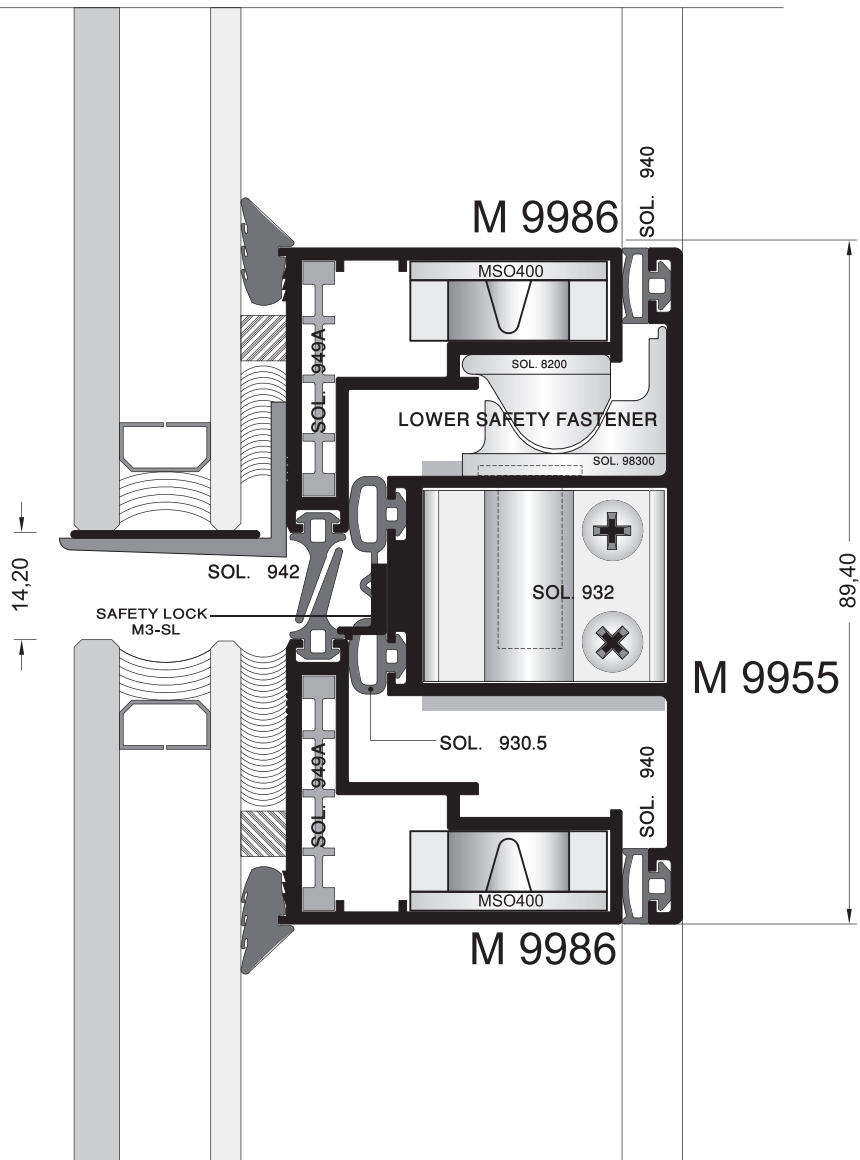
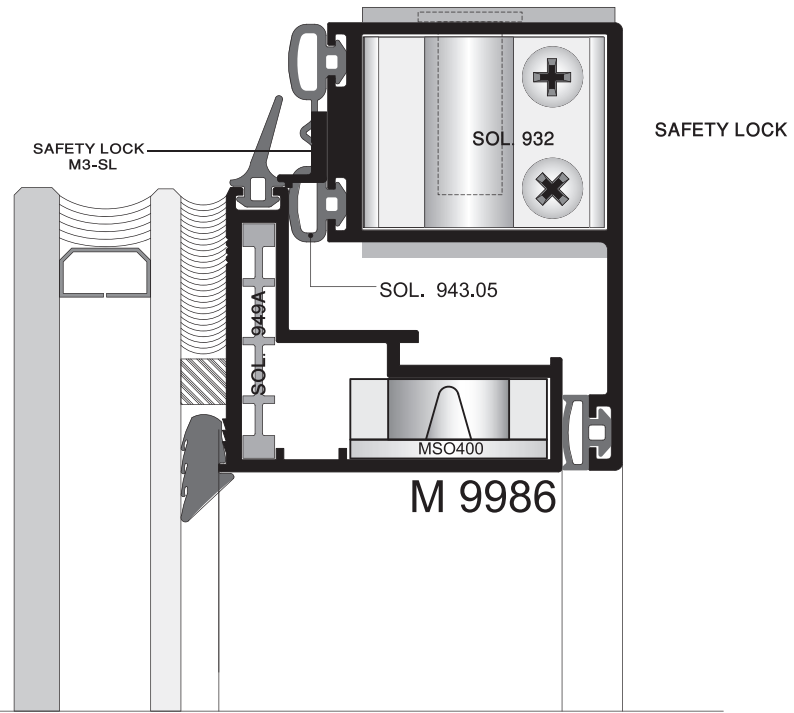
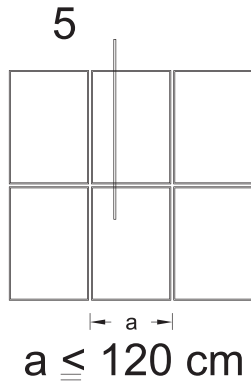


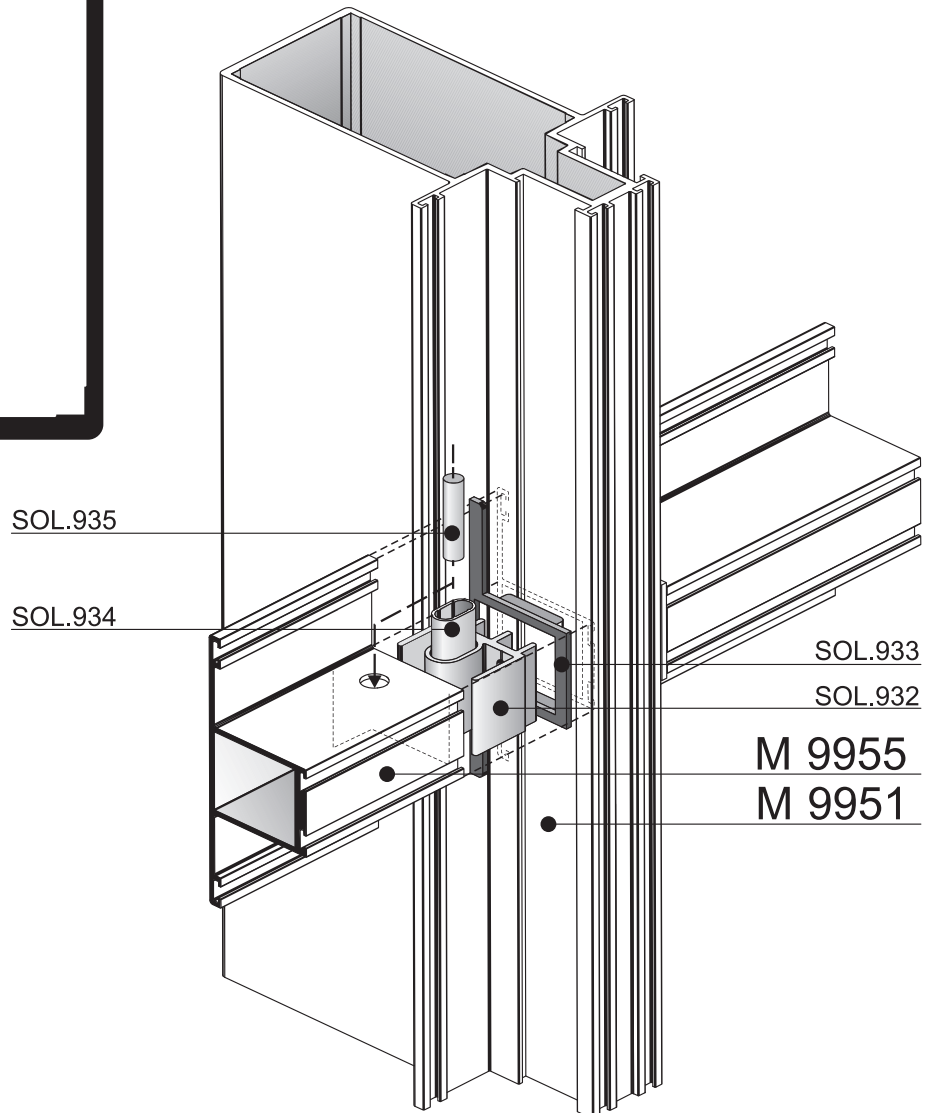
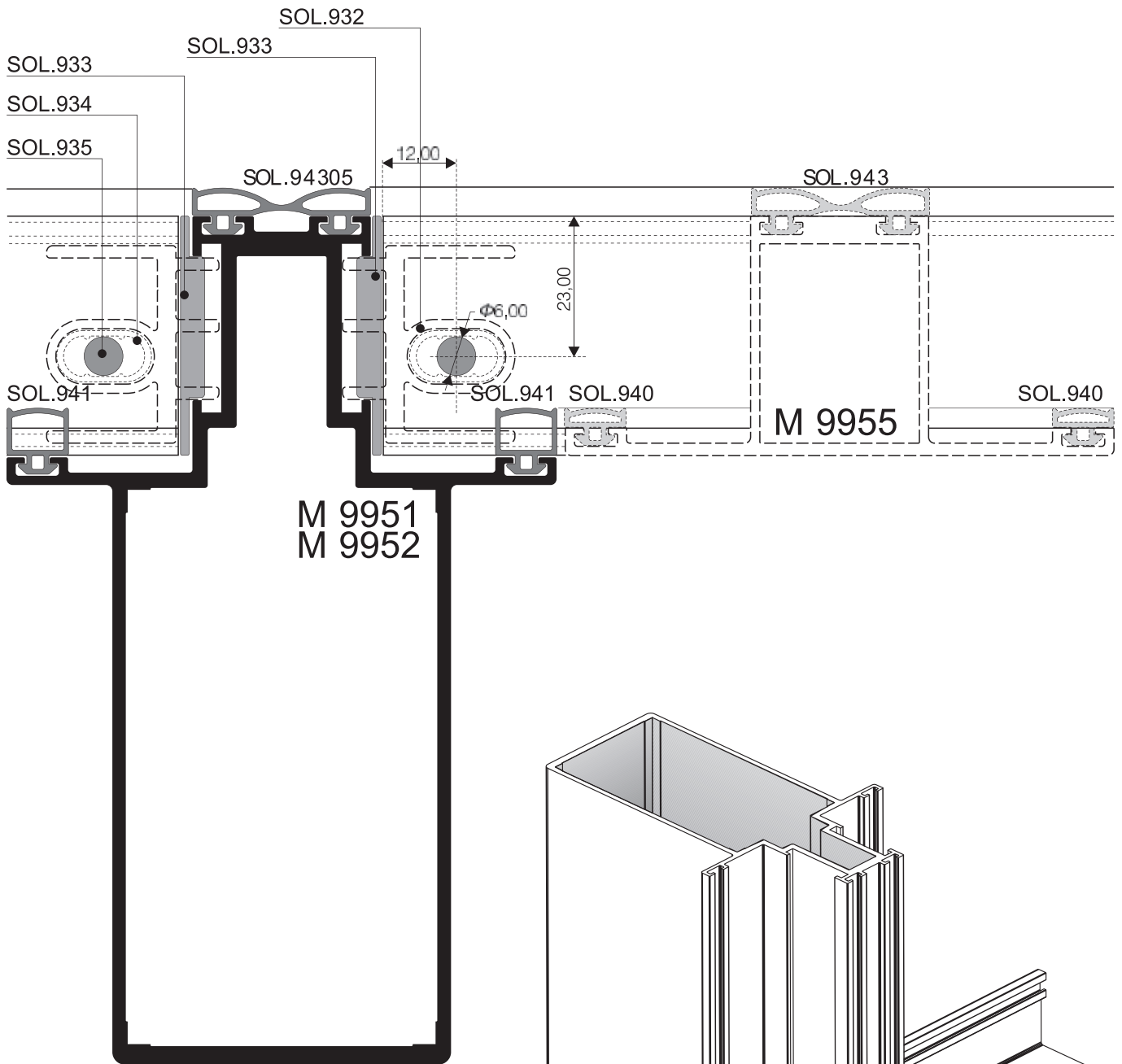


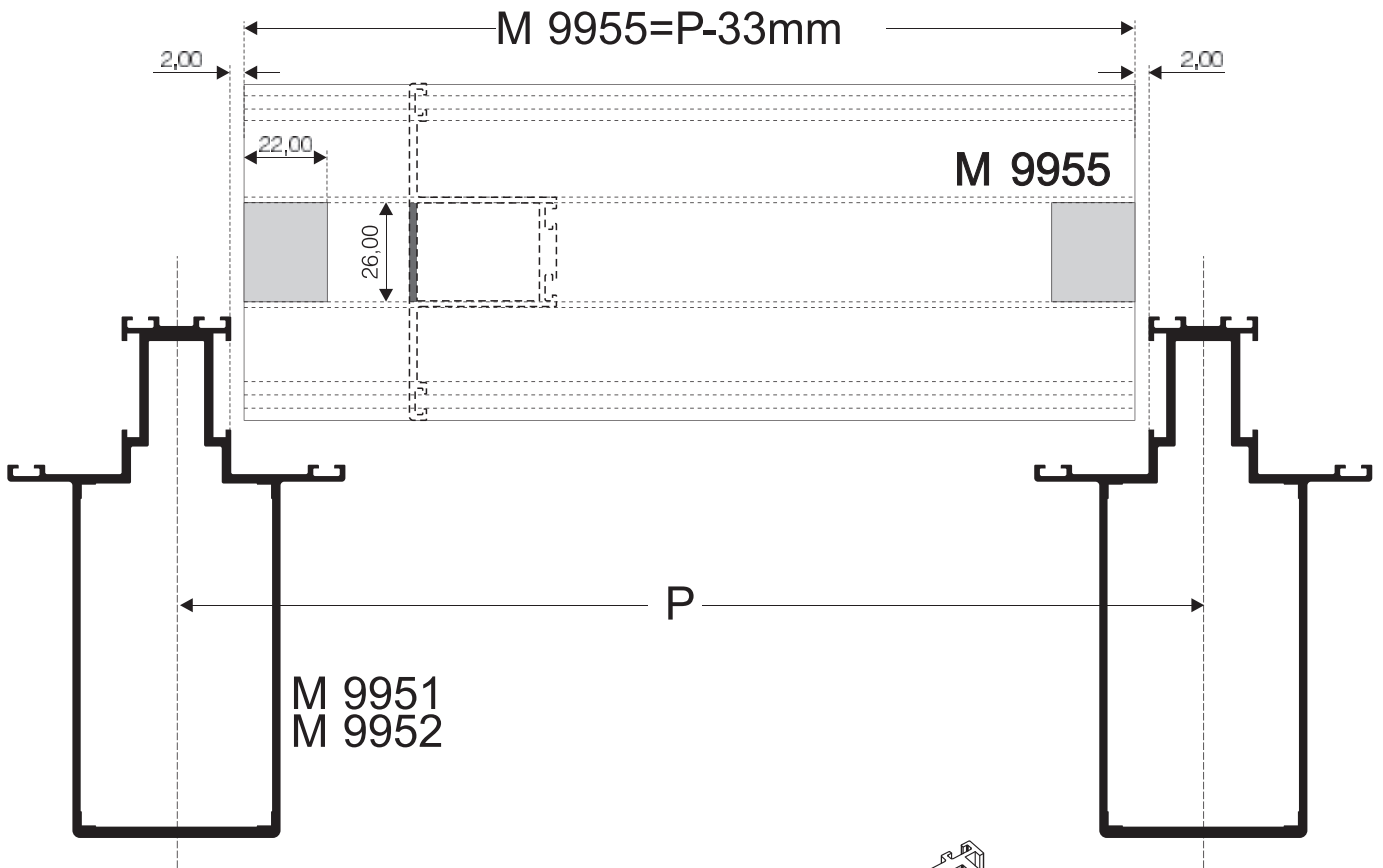












SOL.935

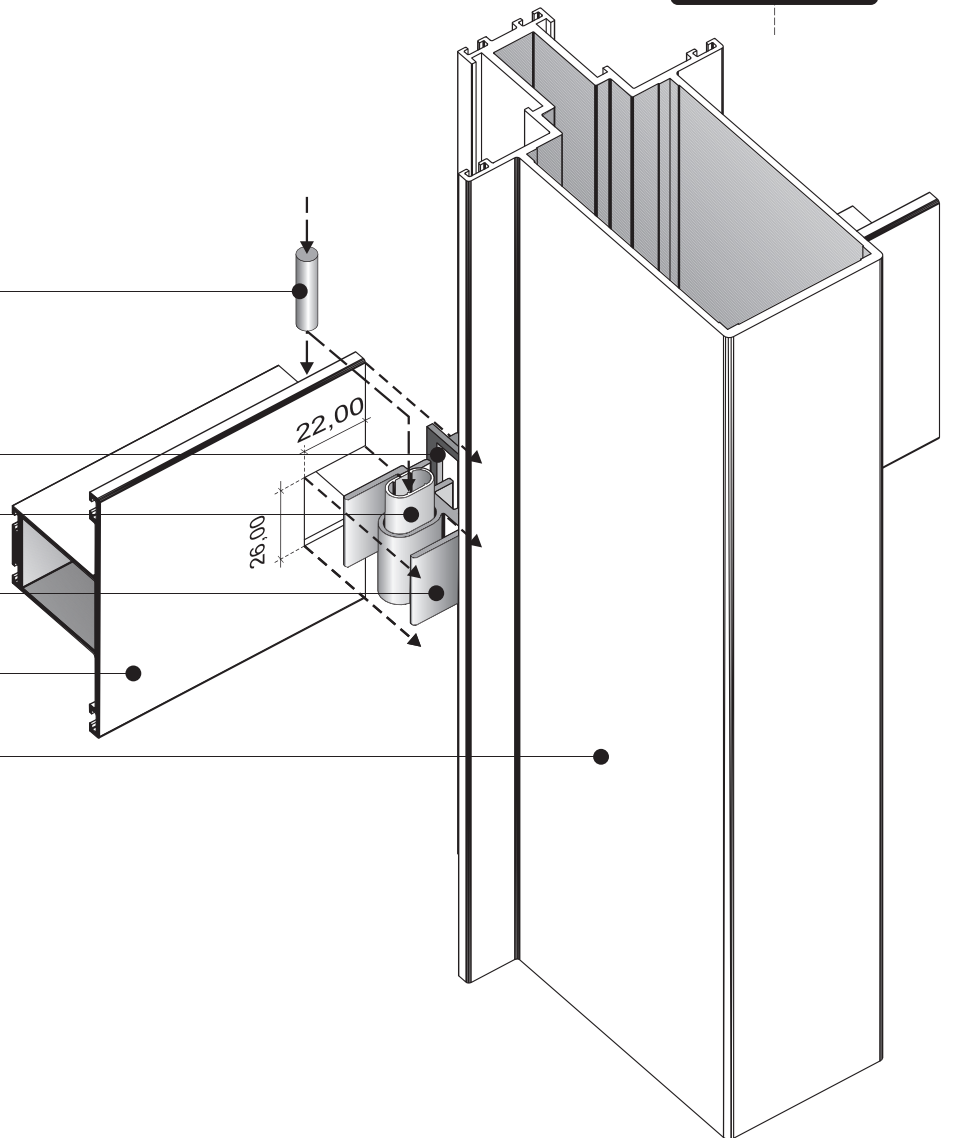
SOL.933

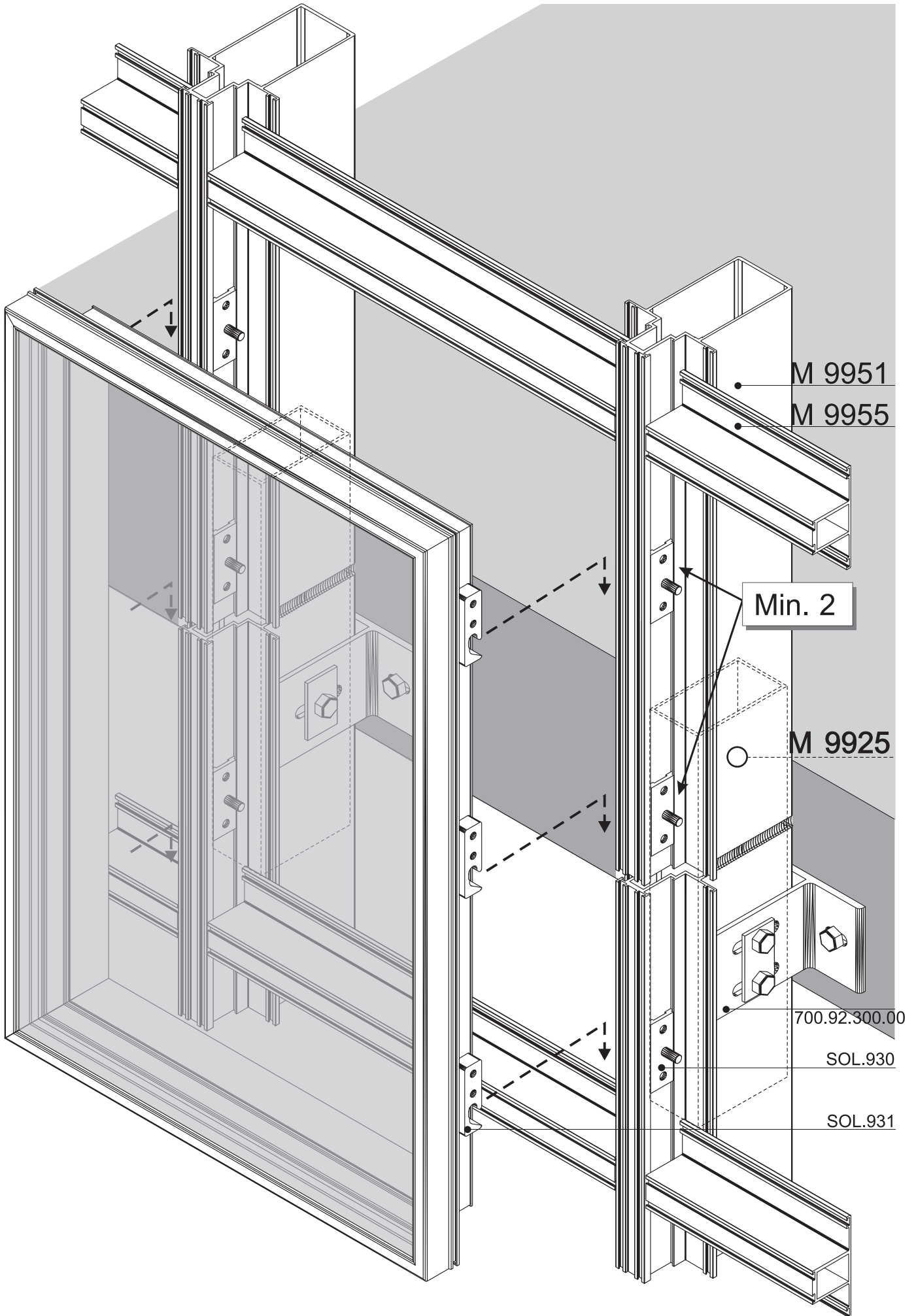
SOL.934




SOL.932

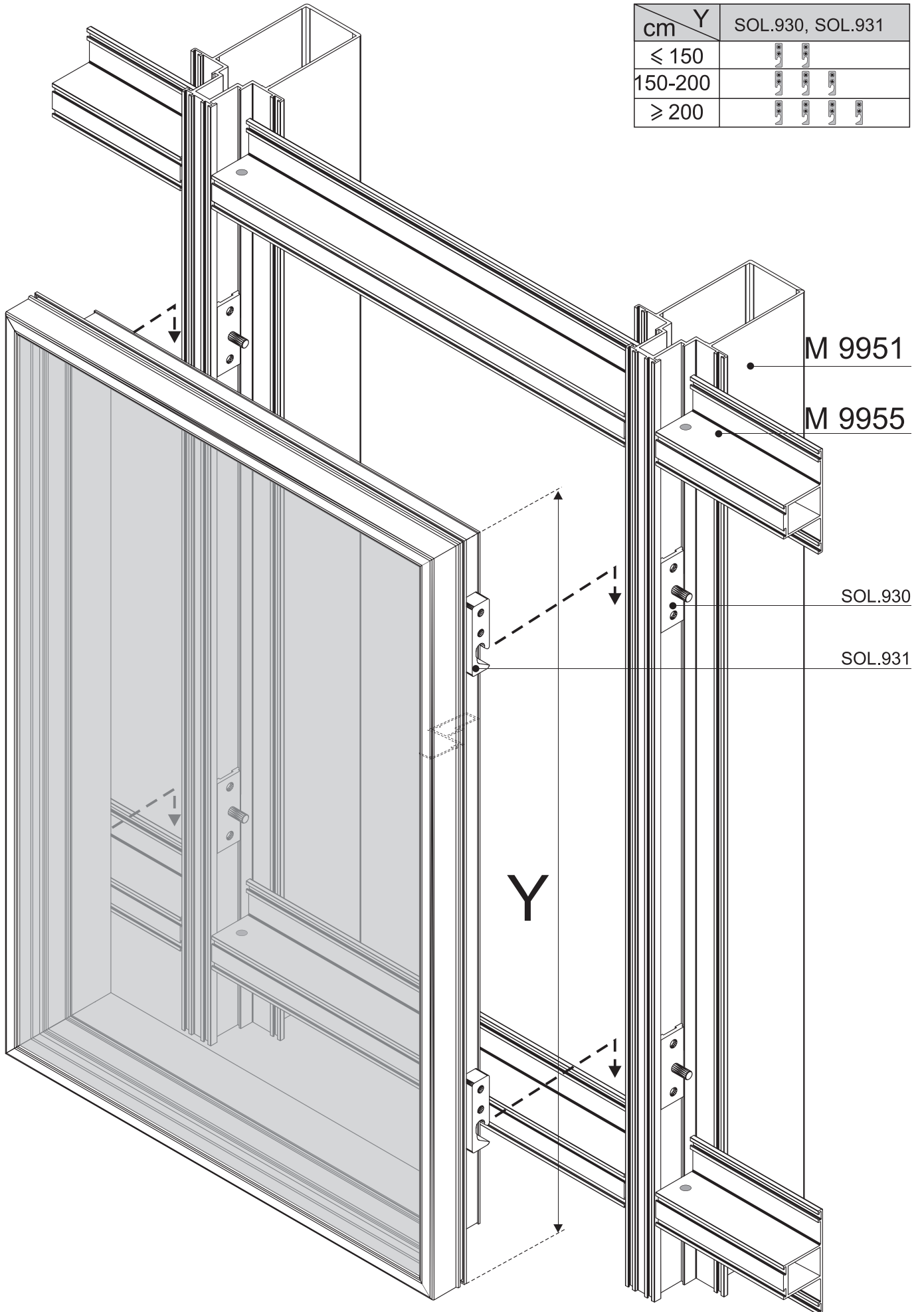
M 9955

M 9951

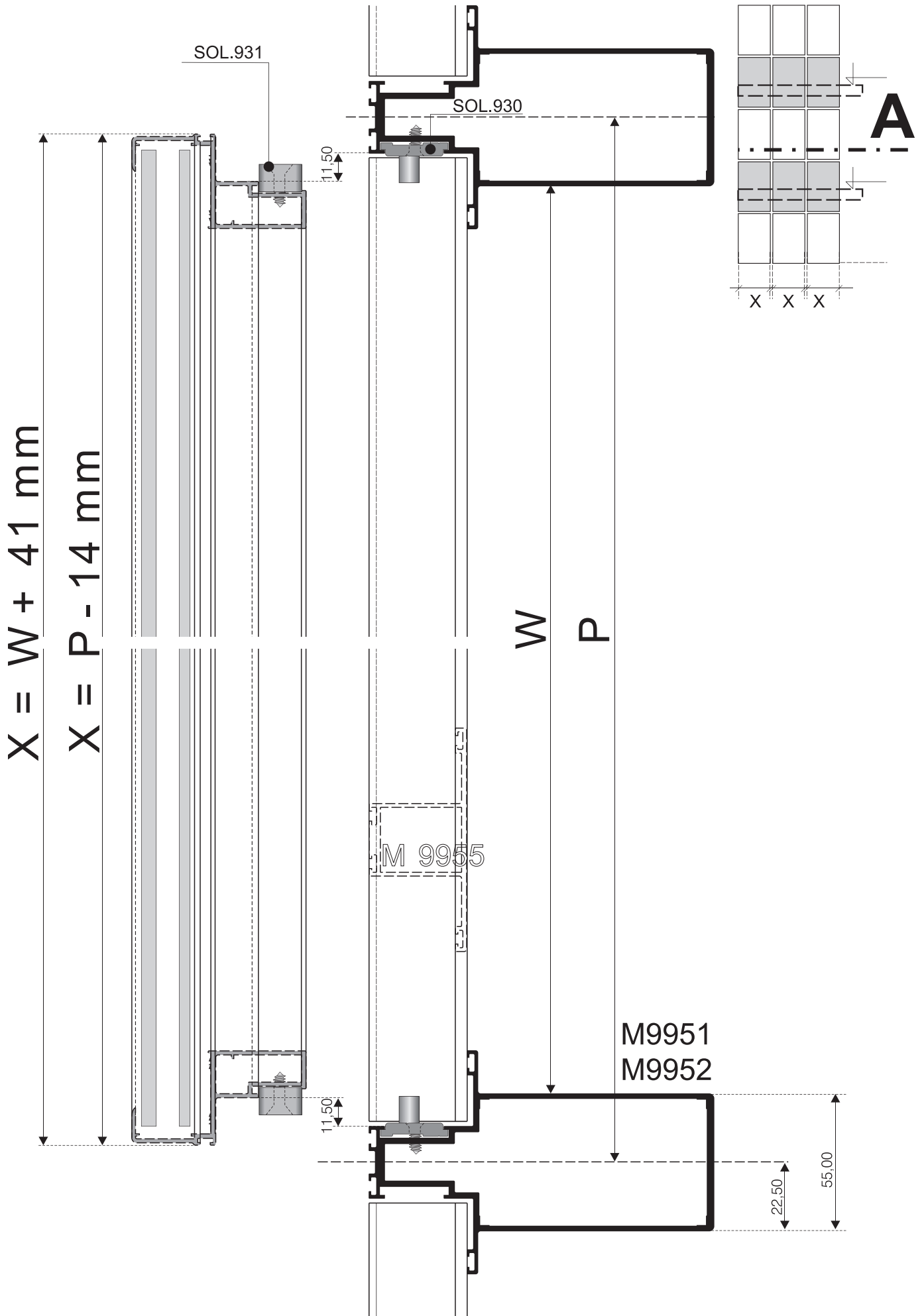


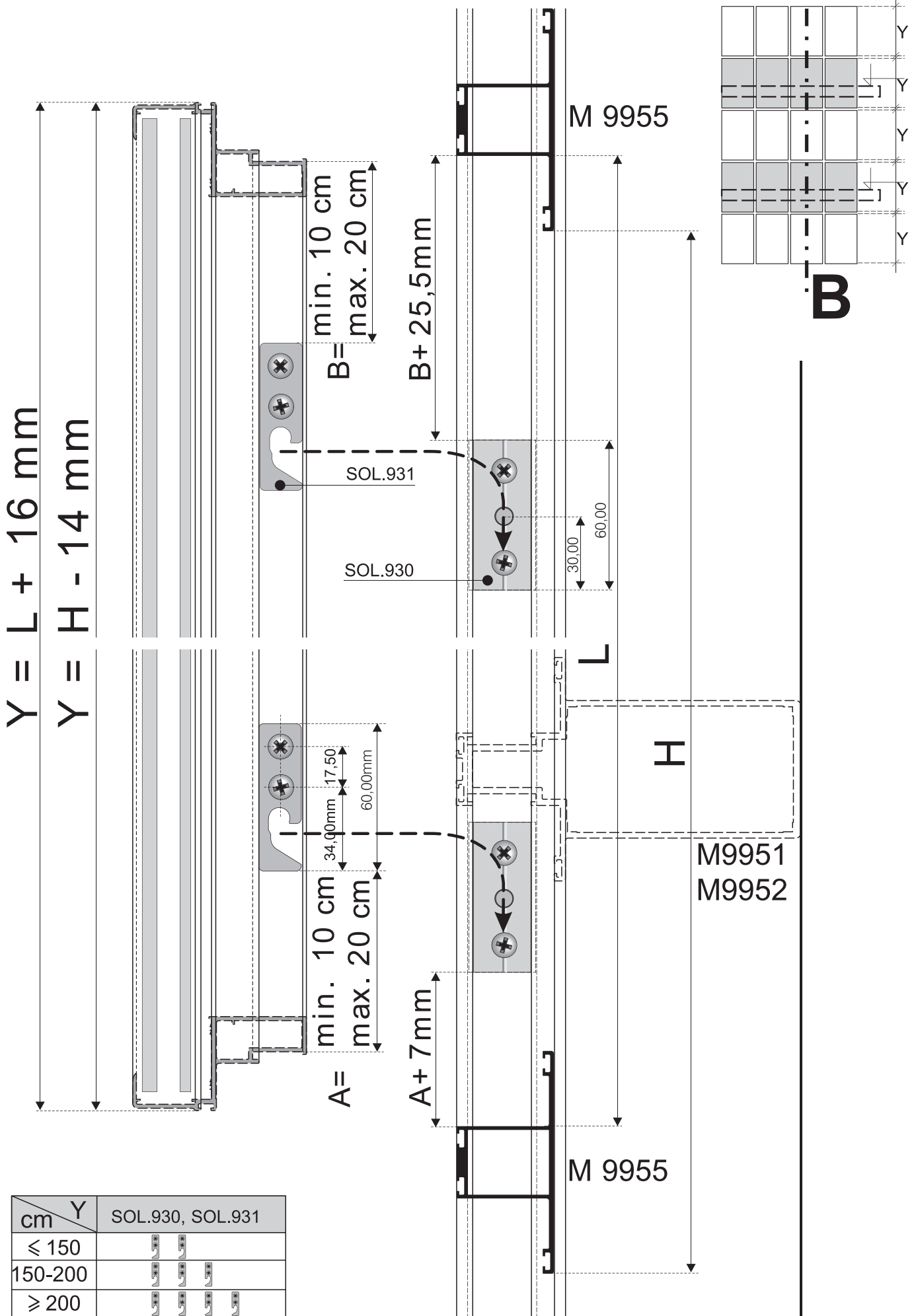


cm	Y	SOL.930, SOL.931
≤ 150		
150-200		
≥ 200		









cm	Y	SOL.930, SOL.931
≤ 150		
150-200		
≥ 200		



ART. No :	<b>140-11-260-00</b>	Stock No :	<b>MS0400</b>
DESCRIPTION :	SCREW CORNER		
MATERIAL :	DIE CAST ALUMINUM	PACKAGE :	250
COLOR :	MILL FINISH	DIMENSION :	11X26 MM



ART. No :	<b>180-00-949-00</b>	Stock No :	<b>SOL949A</b>
DESCRIPTION :	ALIGNMENT CORNER		
MATERIAL :	POLYAMIDE	PACKAGE :	400
COLOR :	BLACK		



ART. No :	<b>720-94-801-00</b>	Stock No :	<b>SOL94800M</b>
DESCRIPTION :	ALIGNMENT CORNER		
MATERIAL :	PVC	PACKAGE :	1000
COLOR :	BLACK		



ART. No :	<b>700-93-200-00</b>	Stock No :	<b>SOL93200</b>
DESCRIPTION :	T-CONNECTOR		
MATERIAL :	ALUMINUM	PACKAGE :	300



ART. No :	<b>700-93-500-00</b>	Stock No :	<b>SOL93500</b>
DESCRIPTION :	PIN		
MATERIAL :	INOX		



ART. No :	<b>710-93-401-00</b>	Stock No :	<b>SOL93400N</b>
DESCRIPTION :	END COVER		
MATERIAL :	POLYAMIDE		



ART. No :	<b>720-93-300-00</b>	Stock No :	<b>SOL93300</b>
DESCRIPTION :	T-CONNECTOR		
MATERIAL :	PVC	PACKAGE :	1000
COLOR :	BLACK		



ART. No :	<b>710-93-305-00</b>	Stock No :	<b>SOL93305</b>
DESCRIPTION :	END COVER		
MATERIAL :	POLYAMIDE	PACKAGE :	150
COLOR :	BLACK	PROFILE :	M9950



ART. No : **700-93-000-00**

Stock No : SOL93000

DESCRIPTION : FASTENING PIN

MATERIAL : INOX

PACKAGE: 500



ART. No : **700-93-100-00**

Stock No : SOL93100

DESCRIPTION : ALUMINUM HOOK CONNECTOR

MATERIAL : ALUMINUM

PACKAGE: 500



ART. No : **710-96-100-00**

Stock No : SOL96100

DESCRIPTION : GLAZING WEDGE

MATERIAL : POLYAMIDE

PACKAGE: 250

COLOR : BLACK



ART. No : **720-93-002-03**

Stock No : SOL93002

DESCRIPTION : TRANSOM CONNECTOR

MATERIAL : ALUMINUM

PACKAGE: 25

COLOR: BLACK



ART. No : **700-92-300-00**

DESCRIPTION : STRUCTURAL BRACKET MEDIUM

MATERIAL : ALUMINUM

PACKAGE: 42



ART. No : **700-92-301-00**

DESCRIPTION : STRUCT . BRACKET MEDIUM - VERT . HOLE

MATERIAL : ALUMINUM



ART. No : **700-92-400-00**

DESCRIPTION : STRUCTURAL BRACKET - L-SHAPE

MATERIAL : ALUMINUM

PACKAGE: 140



ART. No : **700-92-100-00**

DESCRIPTION : FASTENING PLATE

MATERIAL : ALUMINUM

PACKAGE: 500



ART. No : **720.00.8200/300** Stock No : SOL8200/300

DESCRIPTION : SAFETY LOCK FASTENER

MATERIAL : POLYAMIDE



ART. No : **720.00.983.00** Stock No : M3-SL

DESCRIPTION : SAFETY LOCK

MATERIAL : ALUMINUM



ART. No : **230-84-305-00** Stock No : SOL94305

DESCRIPTION : GASKET

MATERIAL : EPDM

COLOR : BLACK



ART. No : **230-94-000-00** Stock No : SOL94000

DESCRIPTION : GASKET

MATERIAL : EPDM

COLOR : BLACK



ART. No : **230-94-100-00** Stock No : SOL94100

DESCRIPTION : GASKET

MATERIAL : EPDM

COLOR : BLACK



ART. No : **230-94-200-00** Stock No : SOL94200

DESCRIPTION : GASKET

MATERIAL : EPDM

COLOR : BLACK



ART. No : **230-98-000-00** Stock No : SOL98000

DESCRIPTION : GASKET

MATERIAL : EPDM

COLOR : BLACK