

20 CANOPIES

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RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



ANTI-CLIMB PRODUCT

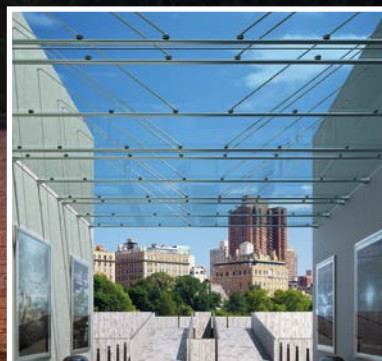
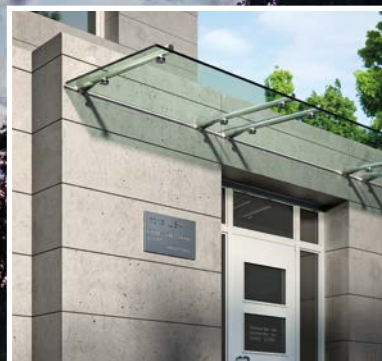
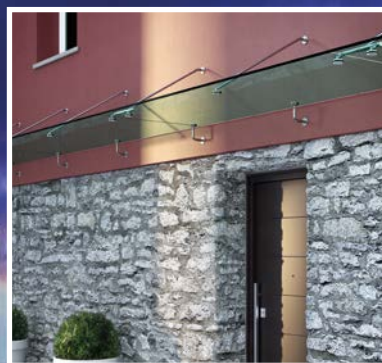


SUPER STRONG, HIGH RESISTANT PRODUCT

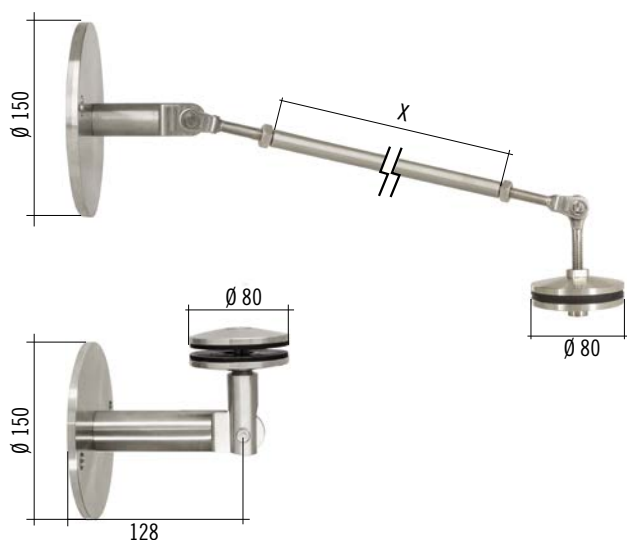


Aalco offers a range of canopies featuring a full kit of components to create glazed canopies with supporting metal rods or tube brackets. The classic lines and simplicity of design ensures a canopy that is not only functional but one which also adds to the aesthetics of any property. The canopies are fully tested for resistance to snow, wind and other safety factors.

The range includes the **NEW SMARTGLASS** design, an elegant and discrete canopy system.



CANOPY KIT - POINT F

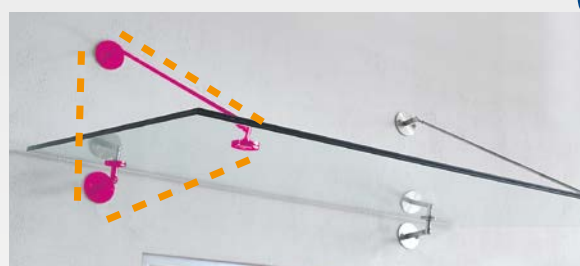


Glass not included

AISI304	AISI316	WIDTH W	X	SUITABLE FOR GLASS
E81601	E81600	1400mm	Custom Made	13.52 - 25.52mm

CANOPY TENSIONER

TELL US THE MEASURE X AND WE WILL IMMEDIATELY PREPARE THE CUSTOMISED TENSIONER FOR YOUR PROJECT



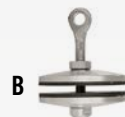
EACH KIT CONTAINS ACCESSORIES FOR ONLY ONE SUPPORTING BRACKET



A

THE KIT INCLUDES:

A = 1 TIE ROD WITH TWO FORKS



B

B = 1 GLASS SUPPORT



C

C = 1 GLASS SUPPORT



D

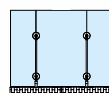
D = 1 UPPER WALL SUPPORT



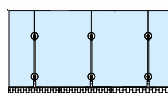
E

E = 1 LOWER WALL SUPPORT

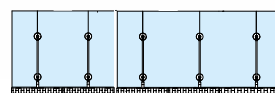
EXAMPLES OF KITS



2 KIT

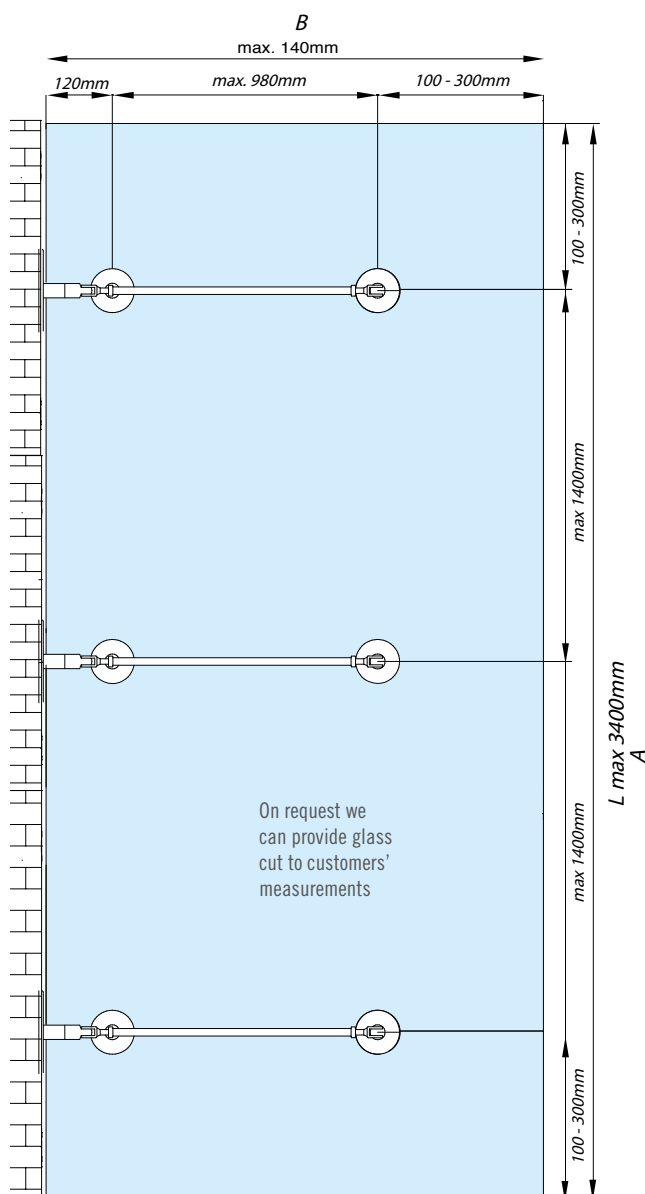
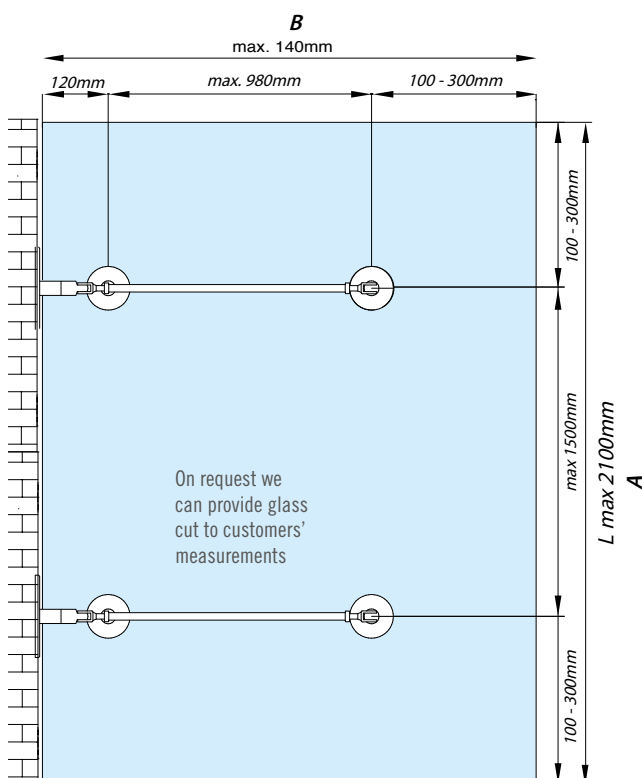


3 KIT



5 KIT

CONFIGURATIONS WITH TWO OR THREE TIE RODS



kN	max. A x B	VSG (+ PVB 1.52mm)	max. A2
1 kN/m²	1800 x 1400mm	2 x TVG 6mm	1200mm
1 kN/m²	2100 x 1400mm	2 x TVG 8mm	1500mm
2 kN/m²	1600 x 1400mm	2 x TVG 8mm	1000mm
2 kN/m²	2100 x 1400mm	2 x TVG 10mm	1500mm
3 kN/m²	1600 x 1400mm	2 x TVG 10mm	1000mm
3 kN/m²	2100 x 1400mm	2 x TVG 12mm	1500 mm

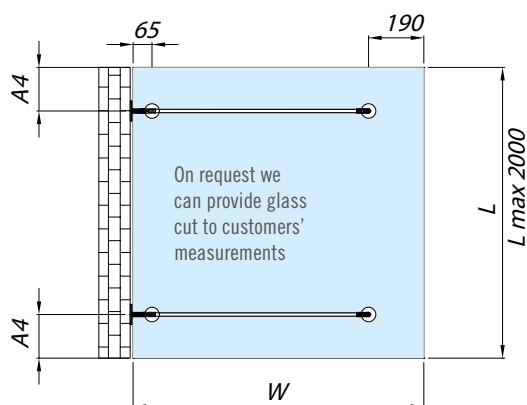
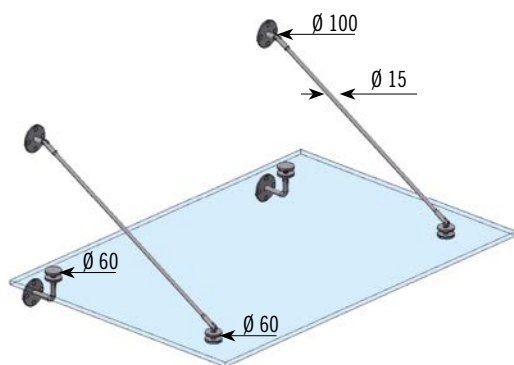
kN	max. A x B	VSG (+ PVB 1.52mm)	max. A2
1 kN/m²	2900 x 1400mm	2 x TVG 8mm	1150mm
1 kN/m²	3400 x 1400mm	2 x TVG 10mm	1400mm
2 kN/m²	2600 x 1400mm	2 x TVG 10mm	1000mm
2 kN/m²	2900 x 1400mm	2 x TVG 12mm	1150mm
3 kN/m²	2700 x 1400mm	2 x TVG 12mm	1050mm

COMPLETE CANOPIES

MODEL 1

Glass not included

AISI316	COMPRISING:	FIXING
E95100	E96100 (2pc.) - E96200 (2pc.) E97100 (2pc.) - E98100 (2pc.)	4 holes Ø 9mm
E95200	E97100 (2pc.) - E96300 (2pc.) E96400 (2pc.) - E98100 (2pc.)	M12

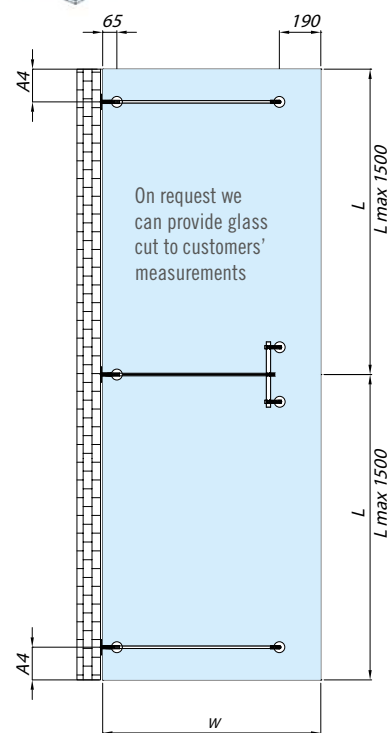
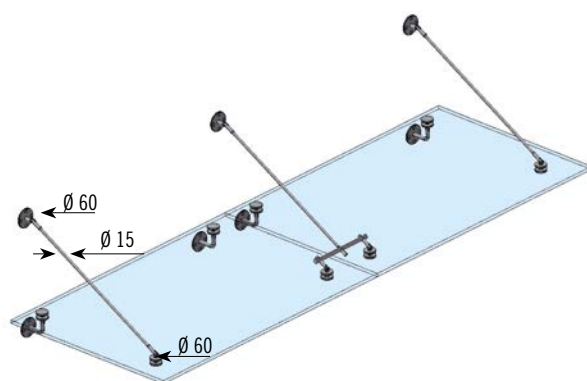


TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

GLASS CHARACTERISTICS T	L	W
8 + 8mm + 1.52mm pvb	max 2000mm	1000mm
10 + 10mm / 1.52mm pvb	max 2000mm	1000mm
12 + 12mm / 1.52mm pvb	max 2000mm	1000mm
10 + 10mm / 1.52mm pvb	max 2000mm	1500mm
12 + 12mm / 1.52mm pvb	max 2000mm	1500mm

MODEL 2

AISI316	COMPRISING:	FIXING
E95510	E96200 (4pc.) - E96100 (3pc.) E97100 (2pc.) - E98200 (3pc.)	4 holes Ø 9mm



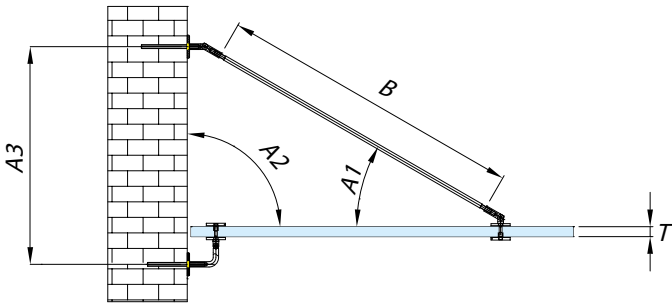
TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

GLASS CHARACTERISTICS T	L	W
8 + 8mm + 1.52mm pvb	max 1500 + 1500mm	1000mm
10 + 10mm / 1.52mm pvb	max 1500 + 1500mm	1000mm
12 + 12mm / 1.52mm pvb	max 1500 + 1500mm	1000mm
10 + 10mm / 1.52mm pvb	max 1500 + 1500mm	1500mm
12 + 12mm / 1.52mm pvb	max 1500 + 1500mm	1500mm

COMPLETE CANOPIES

Canopy System with relevant load characteristics

The system has been tested and reflects the high security that characterises these products. The results refer to applications with glass of 1000/1500mm width, with the use of two or three supporting brackets. The products have passed the tests necessary to ensure its resistance to snow, wind and other safety factors as required by European standards.



IMPORTANT INFORMATION FOR INSTALLATION

W 1000mm (TESTED WITH L MAX = 3000mm)

A1	A2	A3	A4	W	B
30°	90°	570mm	150mm	1000mm	775mm
28°	92°	545mm	150mm	1000mm	775mm
26°	94°	520mm	150mm	1000mm	775mm
24°	96°	495mm	150mm	1000mm	775mm

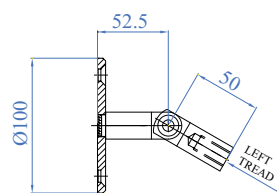
W 1500mm (TESTED WITH L MAX = 3000mm)

A1	A2	A3	A4	W	B
30°	90°	860mm	300mm	1500mm	1350mm
28.5°	91.5°	825mm	300mm	1500mm	1350mm
27°	93°	790mm	300mm	1500mm	1350mm
25.5°	94.5°	755mm	300mm	1500mm	1350mm



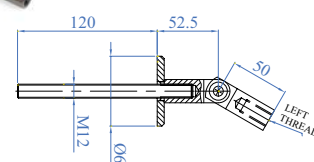
CANOPIES - ACCESSORIES FOR MODELS 1-2-3

ACCESSORIES



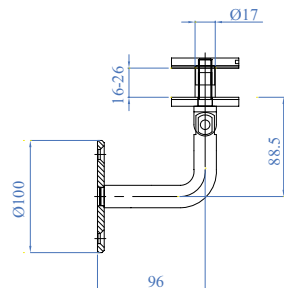
AIS1316 DESCRIPTION

E96100 Wall fixing for tie rod with flange



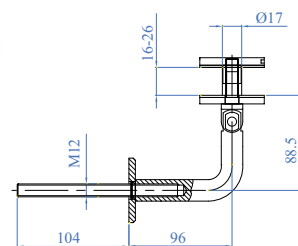
AIS1316 DESCRIPTION

E96300 Wall fixing for tie rod with threaded bar



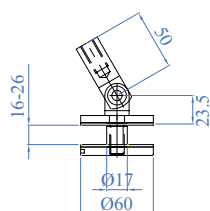
AIS1316 DESCRIPTION

E96200 Glass support with flange



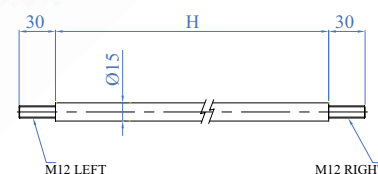
AIS1316 DESCRIPTION

E96400 Glass support with threaded bar



AIS1316 DESCRIPTION

E97100 Glass support

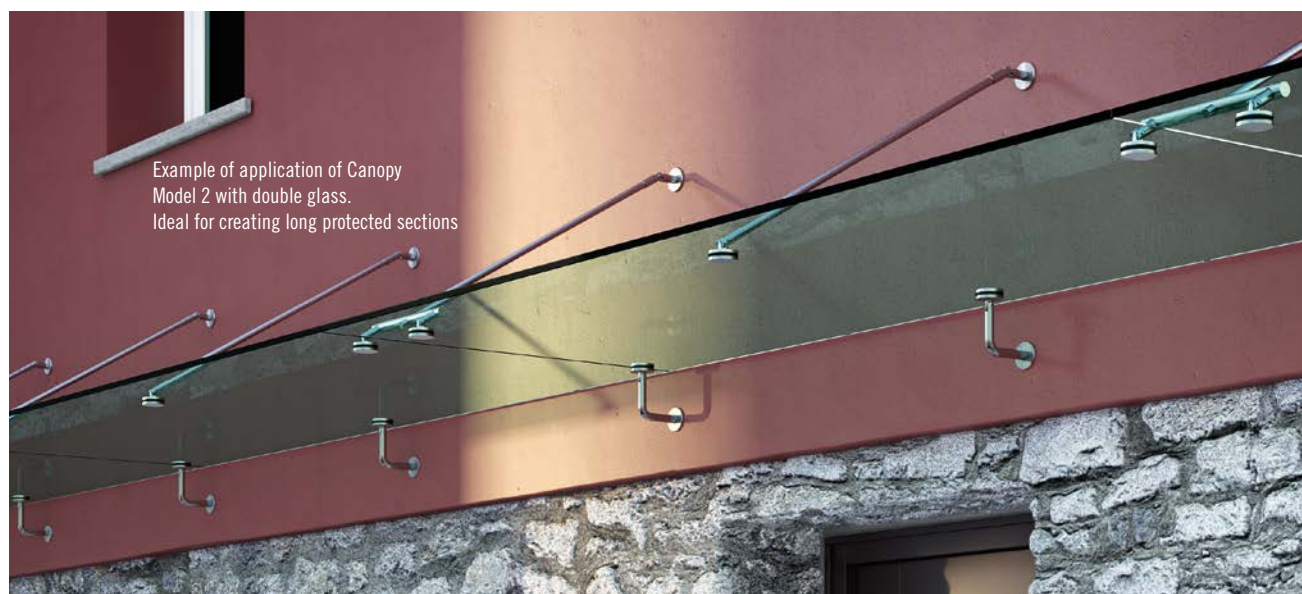


Double threaded tie rod

AIS1316 H

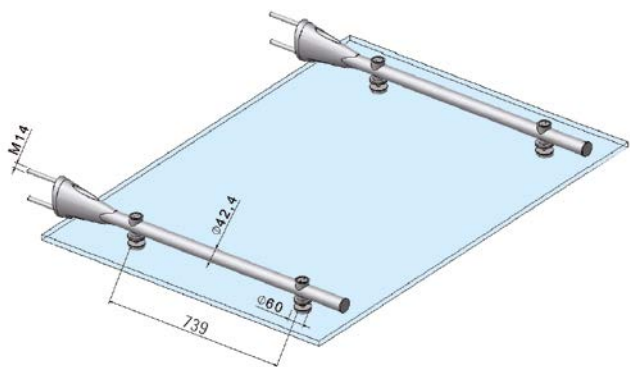
E98100 775mm

E98200 1350mm

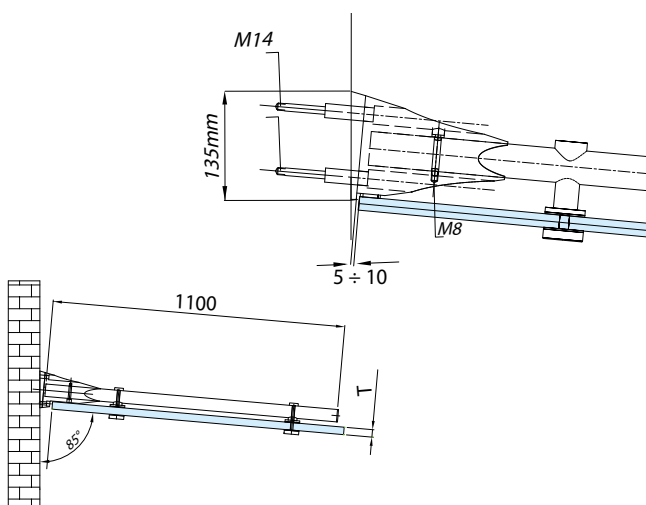
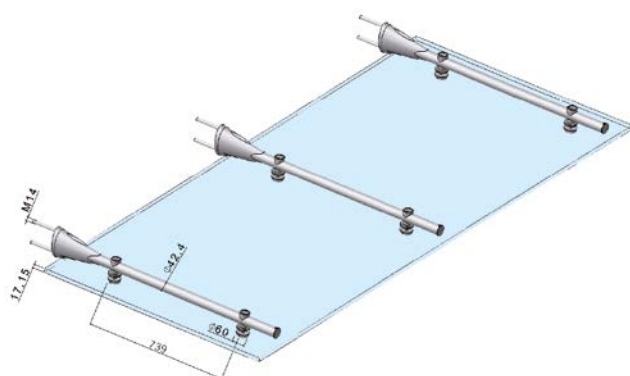


TUBE CANOPIES

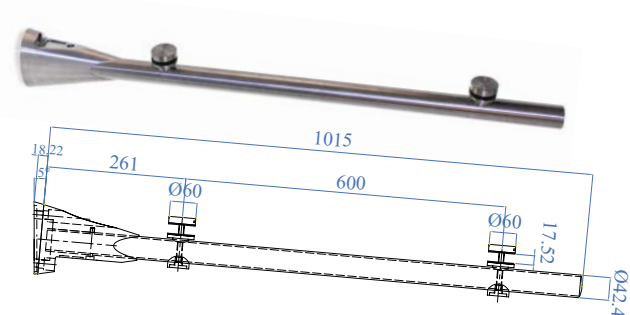
TUBE CANOPY WITH TWO BRACKETS



TUBE CANOPY WITH THREE BRACKETS



WALL SUPPORT



GLASS CAN BE SUPPLIED ONLY IF REQUESTED TOGETHER WITH THE CANOPY



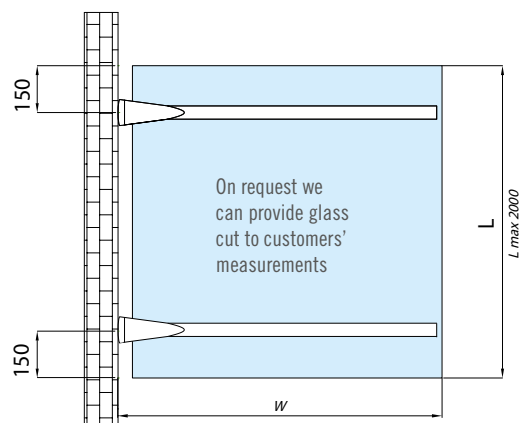
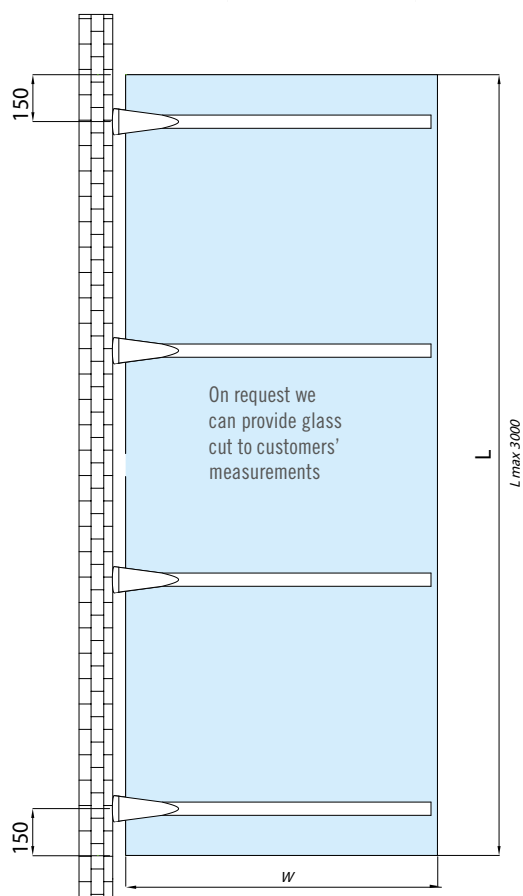
AISI316

E97500

A completely new system that allows the creation of totally secure canopies without the need for supporting tension wires. Easy to install and offers maximum security for canopies up to 1500mm wide.

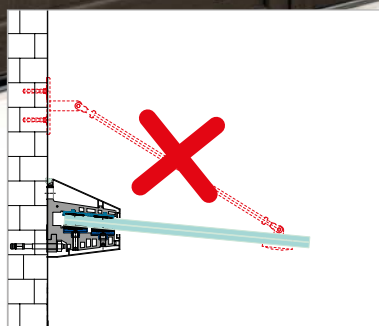
TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

GLASS THICKNESS T	LENGTH L	WIDTH W
8 + 8mm + 1.52mm pvb	max 2000mm	1000mm
10 + 10mm / 1.52mm pvb	max 2000mm	1000mm
12 + 12mm / 1.52mm pvb	max 2000mm	1000mm
10 + 10mm / 1.52mm pvb	max 3000mm	1250mm
12 + 12mm / 1.52mm pvb	max 3000mm	1250mm

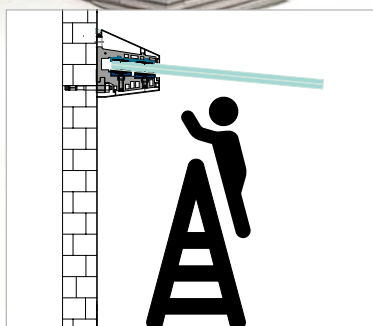


SMARTGLASS

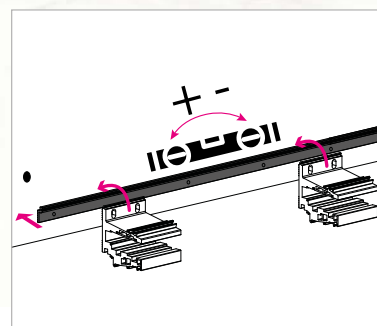
NEW to the range is the SMARTGLASS canopy designed by IAM Design. The use of flat supports and screws creates an invisible fixing in the lower part of the structure to ensure an elegant and discrete canopy.



Compared to traditional canopies, it does not feature tie rods with a design which is therefore more minimal and suitable for contemporary architecture.

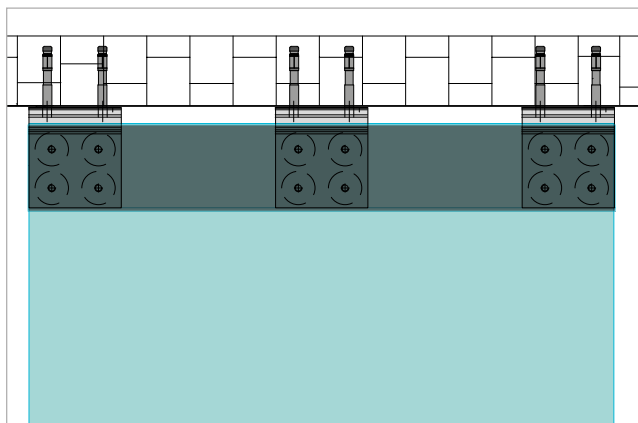


The fixing of this canopy is all done from the underside, ensuring limited use of ladders and scaffolding compared to other canopy systems currently on the market.

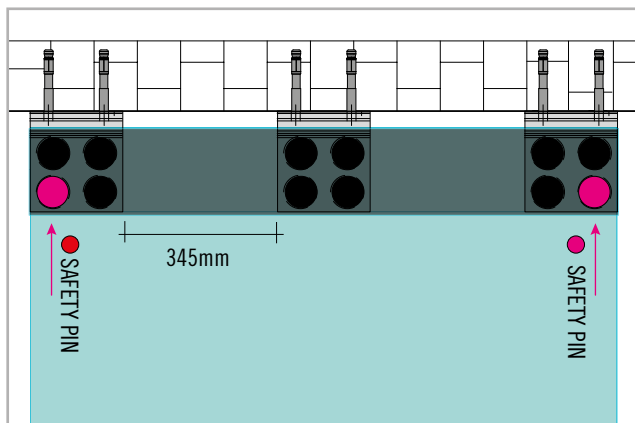


The alignment of the SMARTGLASS canopy is easy thanks to the alignment brackets that allow the system to be levelled before installing the glass support clamps.

CANOPIES - SMARTGLASS



The fixing of the glass and support clamps is done independently, which reduces the weight of the product and allows for easy handling and installation.



The number of holes in the glass is minimised with only two holes suggested for each glass panel to accommodate the safety pin.



Optional use of safety pin according to regulations in force.

SMARTGLASS is a complete kit and does not require any additional components.

COMPONENTS INCLUDED IN THE KIT

- Structural clamps
- Cover profiles for upper and lower closing
- Alignment and levelling profile
- Glass fixing components
- 2 safety pins (E95915) - 4 safety pins (E95900) - 6 safety kits (E95910)
- Closing gaskets
- 2 end caps

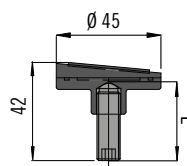
Glass not included



Custom lengths and finishing options can be made available upon request.

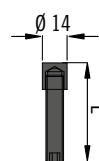
ALUMINIUM	GLASS THICKNESS	LENGTH
E95915	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	1500mm
E95900	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	2000mm
E95910	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	3000mm

LOOSE COMPONENTS



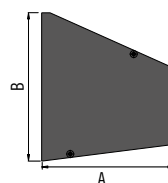
Glass fixing pad

ALUMINIUM	GLASS THICKNESS	LENGTH L
AISI304		
A	E95820	from 16.76 to 25.52mm 40mm
B	E95821	from 16.76 to 25.52mm 32mm



Safety pin

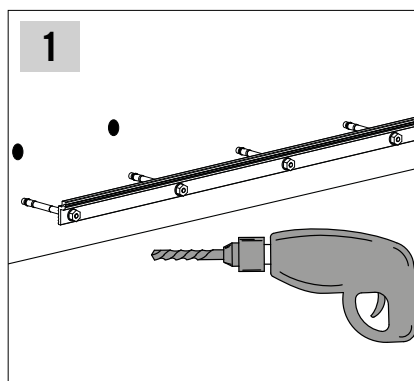
ALUMINIUM	LENGTH L
C	E95780 56mm



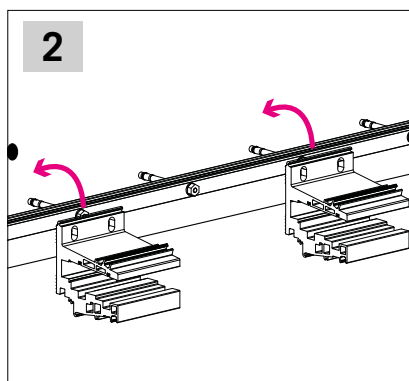
End cap

ALUMINIUM	DIMENSIONS A x B
E95750	142 x 160mm

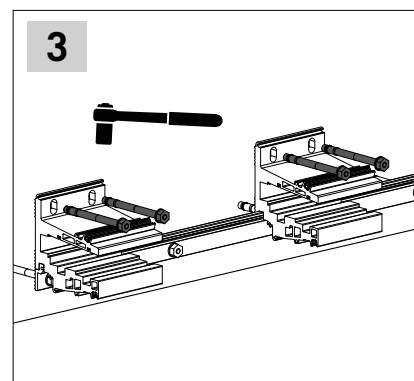
CANOPIES - SMARTGLASS INSTALLATION



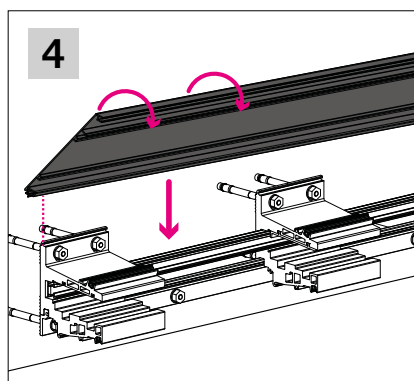
Drill holes in the wall and secure the lower support brackets.



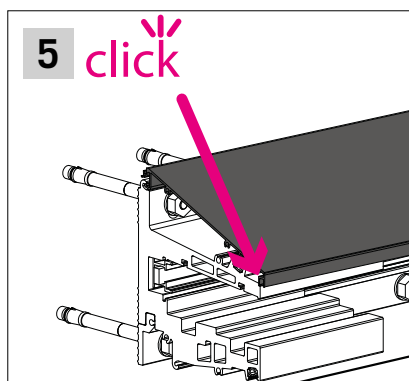
Mount the upper modules by connecting them to the bracket; maximise horizontal movement.



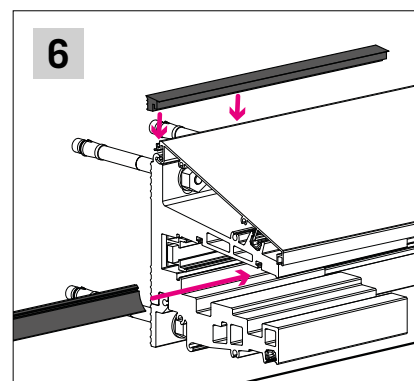
Fasten the units with the appropriate fixings.



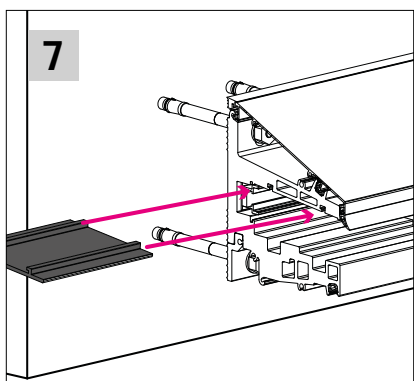
Secure the upper cover with one rotation on the indicated pin.



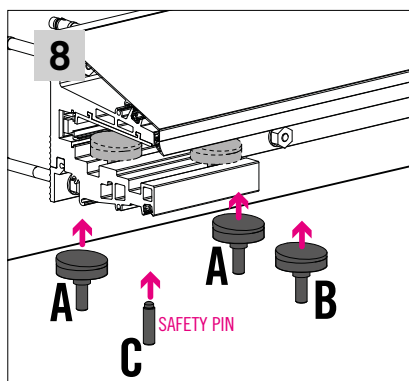
CLICK sound means the cover is correctly located.



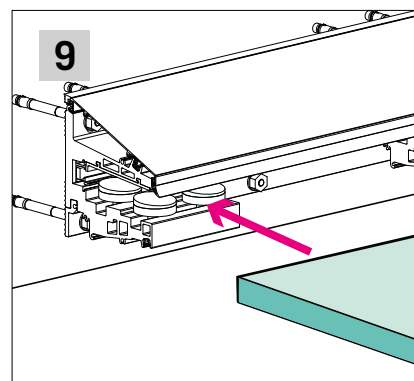
Insert gaskets adjacent to the wall for proper glass installation.



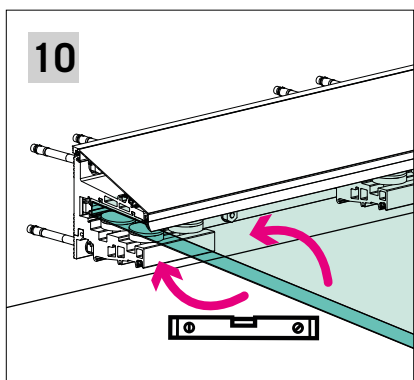
Insert the top gasket



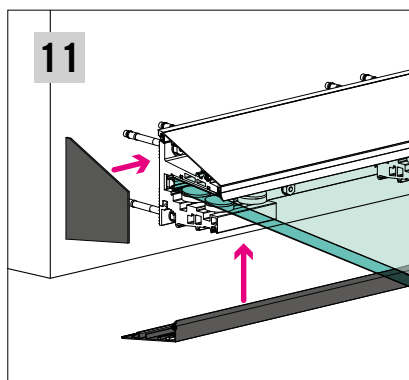
Insert gaskets and adjustable glass fixing systems. Use of safety pins is recommended.



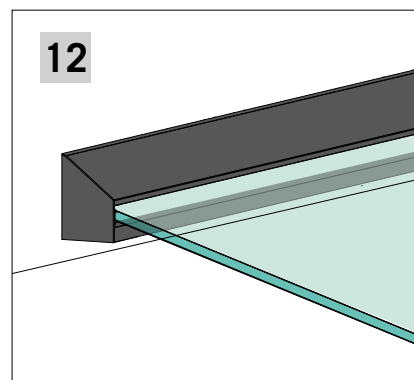
Insert the glass inside the canopy. Slide the glass until it touches the stop. Gasket just inserted.



Adjust the inclination of the glass with the specific gaskets and tighten the safety pins. After adjusting the glass, fix all the gaskets.



Apply the lower cover with the gasket along the canopy and then add the closing caps.

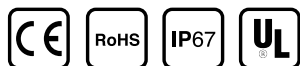


Installation completed.

CANOPIES - SMARTGLASS LED COMPONENTS



- Totally waterproof
- Ultra-bright (over 180 lumens)



LED	METRE
ELED0020	Sold by the metre. Maximum length 20 metres

PVC support for LED strip



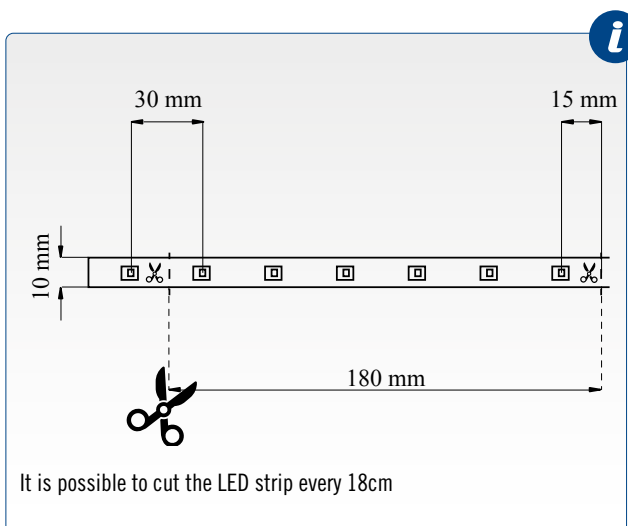
PVC	LENGTH
ELED0014	2000mm

Double sided adhesive tape

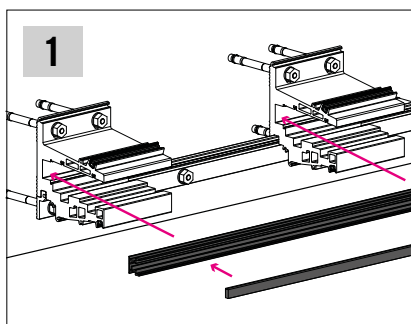


BI-ADHESIVE TAPE	COIL LENGTH	DIMENSIONS
E1999892	33m	15 x 1.5mm

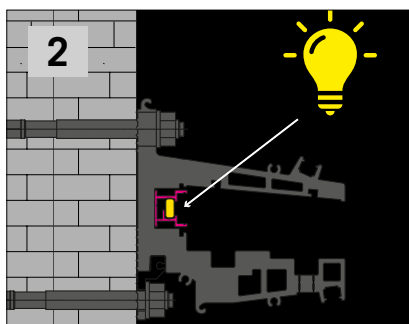
Input voltage	24 V
Input current	154 mA
Power	from 3.2 to 4 W/m
Weight	60 g/m
Life time	35,000h
Beam angle	110°
Luminosity /m	198 lm
CRI	72
Colour temperature	3000°K
No. Led /18cm	6
Operating T°	-20 C° + 50 C°
Use	Indoor/outdoor



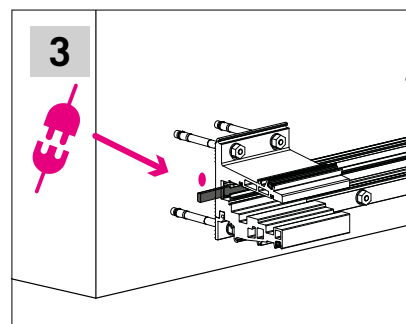
APPLICATION OF THE LED STRIP



Apply the channel ELED0014 with bi-adhesive and then insert the LED strip.



Location for the LED strip.



Make electrical connections.

NEW

20 CANOPIES - SMARTGLASS LED COMPONENTS

CANOPIES - SMARTGLASS LED CONNECTORS



DESCRIPTION

ELED0002 To connect the LED strip to the feeder

DESCRIPTION

ELED0003 To join two LED strips in a line

DESCRIPTION

ELED0004 To join two LED strips by a 15mm flexible cable

DESCRIPTION

ELED0009 To join two LED strips with a 90° elbow

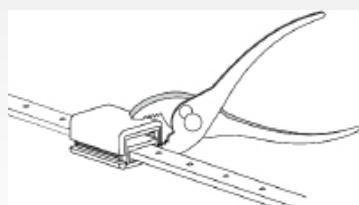
DESCRIPTION

ELED0005 To be used on every installation. Protects the unconnected end of the strip

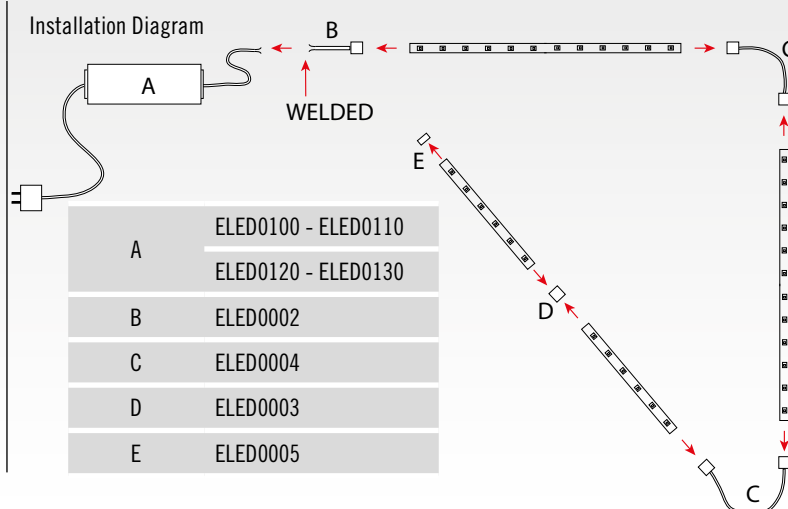
Feeders

	DESCRIPTION	INPUT	OUTPUT	POWER
ELED0100	190 x 52 x 37mm	100-240VAC 2.2 A 50/60 Hz	+24 V 4.2 A	100 W < 27m
ELED0110	162.5 x 42.5 x 32mm	100-240VAC 1.2 A 50/60 Hz	+24 V 2.5 A	60 W < 16m
ELED0120	148 x 40 x 30mm	100-240VAC 1.1 A 50/60 Hz	+24 V 1.5 A	35 W < 9m
ELED0130	140 x 30 x 20mm	200-240VAC 0.3 A 50/60 Hz	+24 V 0.75 A	18 W < 4m

Use a clamp to apply pressure from above and below the connectors to join the strips of LED's.



Installation Diagram



CANOPIES - SMARTGLASS REGULATIONS & CERTIFICATIONS

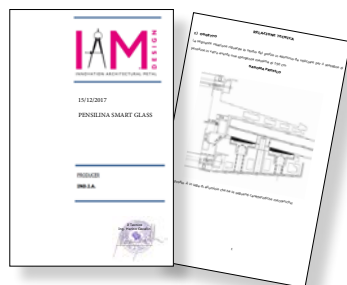
The SMARTGLASS canopy has been designed to withstand various static stresses due to snow or wind load.

Unlike most canopies on the market, SMARTGLASS successfully passed the wind shear stress test in which wind movements were assessed from underneath the glass overhang.

Numerous physical tests have been performed using distributed loads that simulate a snow load up to 250 kg/sqm for more than 40 consecutive testing days.

The system has been tested with a load-bearing substructure made from reinforced concrete, load-bearing masonry or metal beams.

In the case of installation on load-bearing masonry, we recommend carrying out pull-out tests to test the quality of the masonry (service available on request).



TEST CERTIFICATES
AVAILABLE ON REQUEST

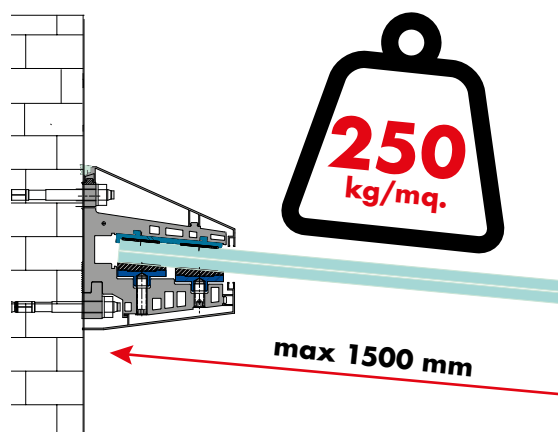


CONSECUTIVE
TESTING DAYS



TESTED FOR SNOW LOAD

TESTED FOR WIND FORCES COMING
FROM BELOW



Once installed, the SMARTGLASS canopy resists to a loading stress of 250 kg/m² with glass of up to 1500mm depth. Verified with glass thickness 10+10+1.52mm.

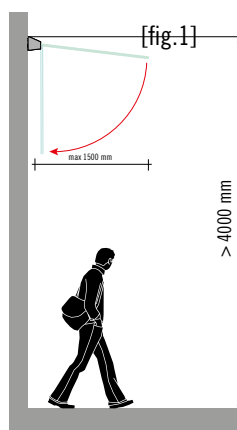
IN CASE OF ACCIDENTAL BREAKAGE OF THE GLASS SHEETS



For safety reasons, if the tempered glass panel has a standard PVB, we recommend installation of the canopy at a height of more than 4 metres. [fig.1]

If using glass that contains rigid plastic pvb, it is possible to reduce the canopies to the desired height due to the resistance between the canopy and this specified glass, even if the glass is broken. [fig.2]

WITH PLASTIC PVB



WITH RIGID PLASTIC PVB

