

aalco®

ARCHITECTURAL
HANDRAIL
SYSTEMS



	01 GLASS U SYSTEM
	02 PROFILE SYSTEM
	03 CHAMELEON GLASS SYSTEMS
	04 CHAMELEON POST
	05 CLEAR VISTA FRENCH BALCONY
	06 EASY HOLD SYSTEM
	07 GLASS CLAMPS & GLASS ADAPTORS
	08 DA VINCI CLAMP
	09 ROUND BAR HOLDERS
	10 WIRE ROPE SYSTEM
	11 NEWEL POSTS
	12 ANCHORAGE FITTINGS
	13 TUBE & BAR
	14 CURVES & FITTINGS
	15 END CAPS
	16 HANDRAIL SUPPORTS
	17 LED SYSTEMS
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	21 ACCESSORIES
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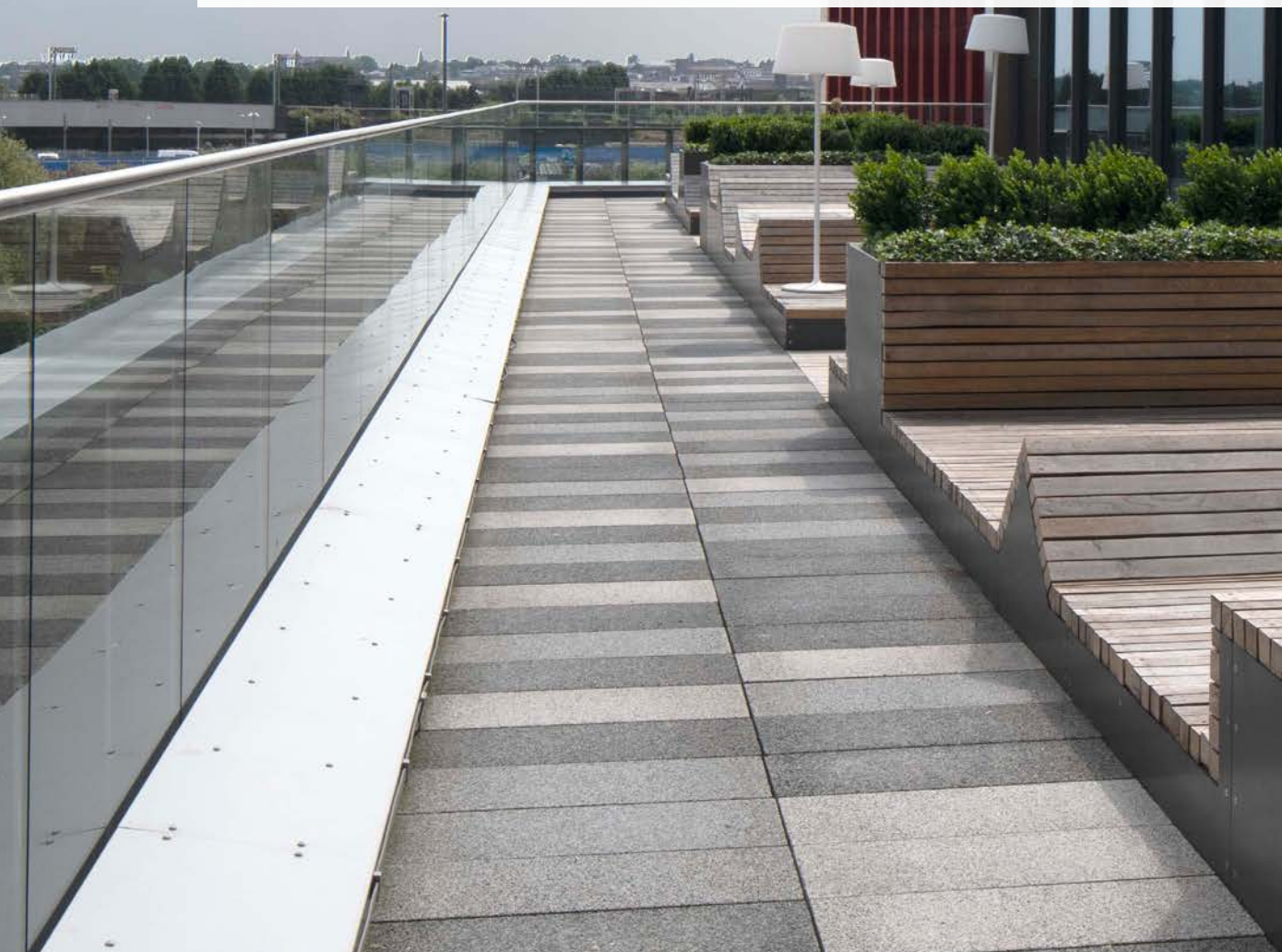
Aalco is the largest independent stockholder of multi-metals in the UK.

Working with our Italian partner IAM design, Aalco Architectural Handrail Systems draws on Aalco's wide ranging experience in metal supply with a company dedicated to contemporary handrail systems. More than 2,500 modular stainless steel components are available to construct railings, balustrades, canopies, staircases and other structural elements, whether it is for an internal or an external application. As well as this, Aalco Architectural Handrail Systems can also offer fabrication of bespoke designs to fit your specification needs.

The focus is on quick and easy installation through various elements which are characterised by their modern and linear design. This ensures there is a system to meet the requirements of any environment and the needs of architects, designers and indeed of anybody looking for a quality solution.

Systems are available for both commercial and domestic applications and backed by a full support service, which includes design assistance and product selection advice.

Aalco Architectural Handrail Systems provides a one-stop-shop for all your railing requirements.



AALCO ARCHITECTURAL HANDRAIL SYSTEMS

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NEW PRODUCTS

01 GLASS U PRECISION 2

This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system.

PAGES 22 - 31



NEW

05 CLEAR VISTA BALCONY

The Clear Vista French Balcony is designed to be in harmony with the environment and the surrounding built architecture. It ensures protection for the windows, without blocking the light, impeding the view or compromising safety.

PAGES 64 - 71



NEW

04 CHAMELEON POST

The NEW Chameleon post is a railing system with glass infills that can be customised in terms of colours, shapes and materials for the posts full height.

PAGES 58 - 63



NEW

20 SMARTGLASS CANOPY

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.

PAGES 196 - 201



NEW

NEW PRODUCTS



BESPOKE FABRICATION

Whether it is the supply of components or the design and production of a bespoke system, Aalco has the knowledge, skill and capability to turn designs into a reality. Working closely with the manufacturer, Aalco is uniquely positioned to assist customers through the design process to realise an installation that is stylish, functional and compliant with legislation.

Prior to manufacture, we will provide CAD drawings, manufacturing cost-estimates and lead times.

Contact your nearest service centre or visit our website for more information.



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BESPOKE FABRICATION

ABOUT US

MEDIA

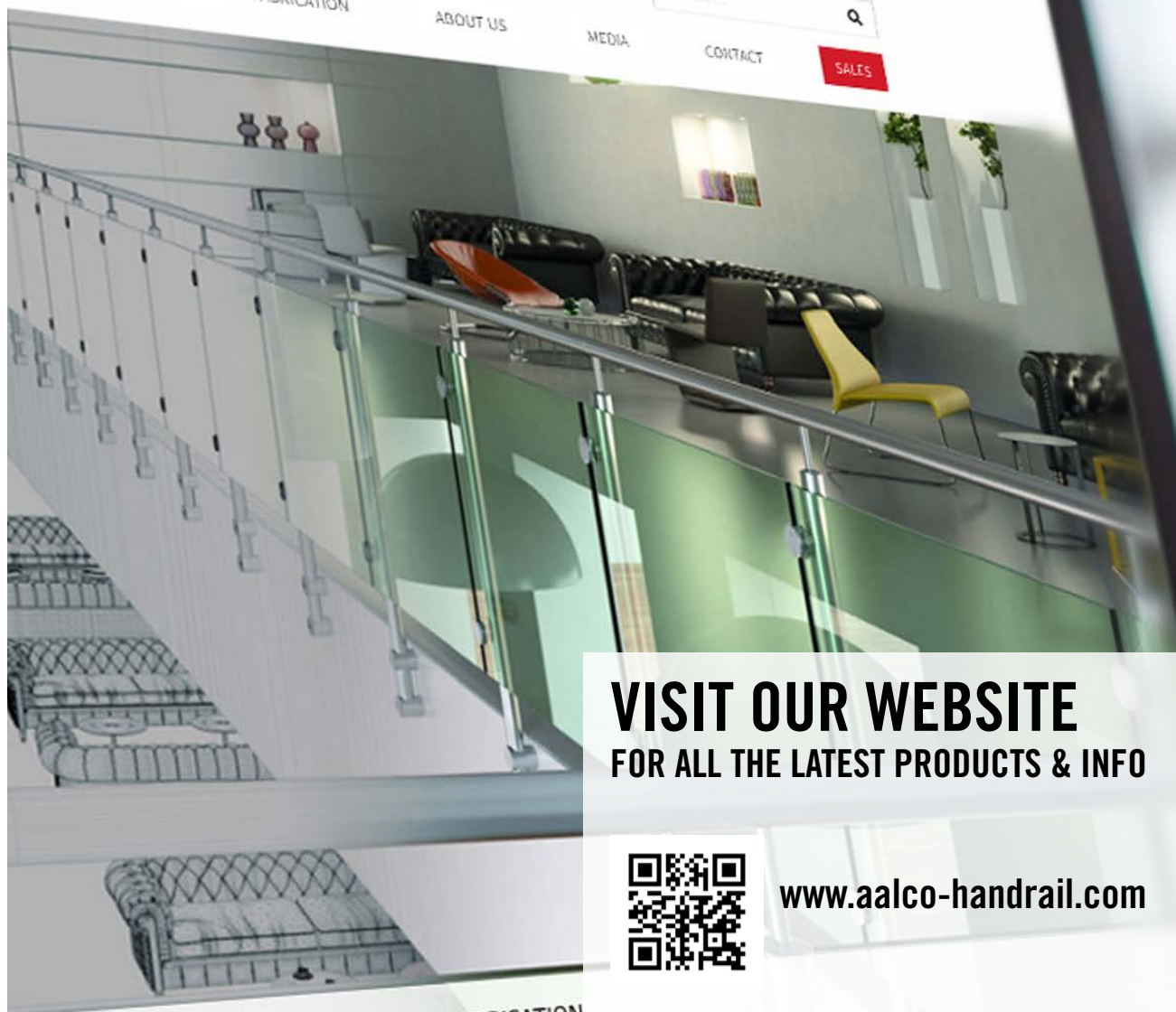
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BESPOKE FABRICATION

Specialist in the design and fabrication of balustrade and handrail systems to customers exact specifications

View System

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01 GLASS U

QUICK VIEW OF GLASS U PRODUCTS APPLICATIONS

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GLASS U ACCESSORIES 36

01 GLASS U PRODUCTS



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



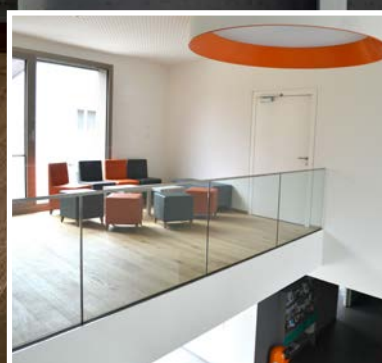
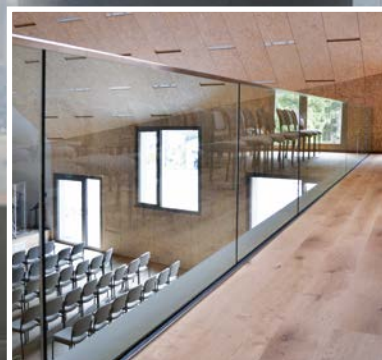
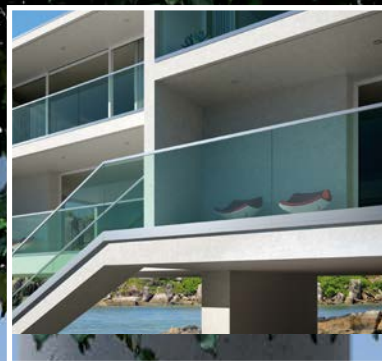
ANTI-CLIMB PRODUCT



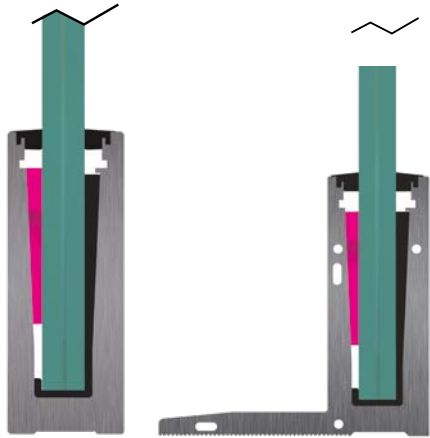
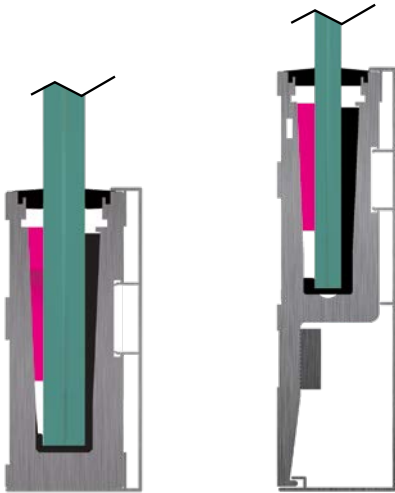

























SUPER STRONG, HIGH RESISTANT PRODUCT



Glass U is a modular system for creating glass railings (without struts) for stairs and balconies, with floor or wall anchoring; it is suitable both for interiors and exteriors, for private and public places including areas of high traffic. Every Glass U product is made to meet highly exacting technical requirements, creating a fixing system that supports the installation with a selection of stands and complementary covers which are ready to be assembled. With just a few actions, the fastening procedure ensures precise fitting and reduced installation time. The system guarantees complete security in fastening the sheet to the profile.

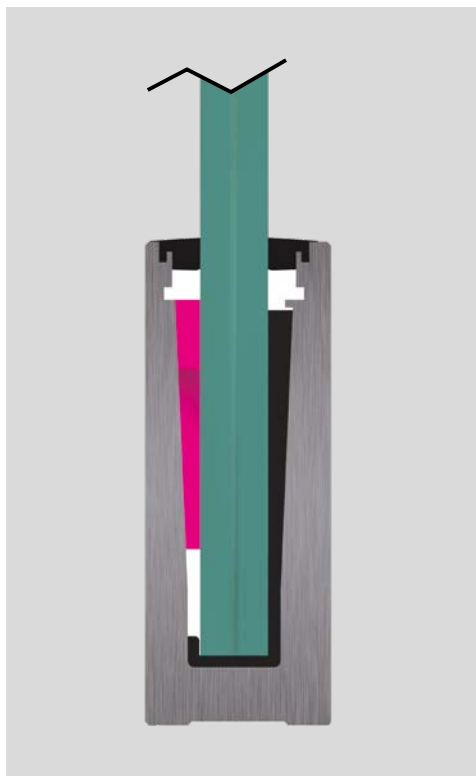


01 GLASS U PRODUCTS

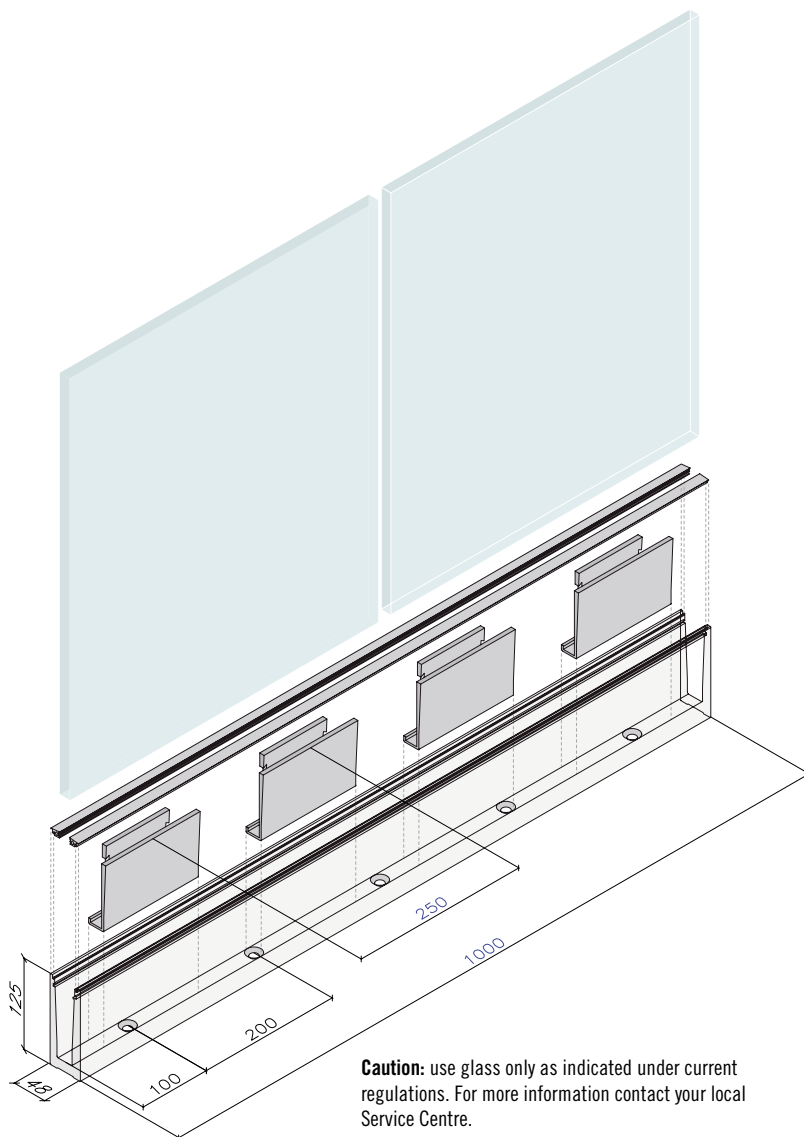
	Glass U A (AVANT-GARDE) TOP 1	Glass U A (AVANT-GARDE) TOP 2	Glass U A (AVANT-GARDE) SIDE 1	Glass U A (AVANT-GARDE) SIDE 2
	<p>Glass U A is ideal for private homes, bars, restaurants and most public places, thanks to increased load resistance. In addition to the classic fixing system, it is equipped with a patented glass spacer system that increases its strength.</p> 		<p>Thanks to its high load resistance, this Class A evolution is perfect for private housing, cafés, restaurants and most public spaces. Not only does it have the usual fastening system, but it is also characterised by a patented distancing system for glass which enhances its solidity.</p> 	
USE	Public area		Public area	
GLASS THICKNESS	15, 16.76, 17.52, 19, 20.76, 21.52	15, 16.76, 17.52, 19, 20.76, 21.52	15, 16.76, 17.52, 19, 20.76, 21.52	15, 16.76, 17.52, 19, 20.76, 21.52
PROFILE WEIGHT	7.95kg/ml	10.10kg/ml	8.02kg/ml	10.10kg/ml
ANCHORAGE POSSIBILITY	 Floor Anchoring	 Floor Anchoring	 Lateral Anchoring	 Lateral Anchoring
POSSIBLE USES	 Linear	 Linear	 Stairways  Linear	 Stairways  Linear
TESTED <small>design load</small> <small>ultimate strength</small>	Contact your local Service Centre for loadings			
CERTIFICATION	   	   	   	  
PAGE NUMBER	10 - 11	12 - 13	14 - 15	16 - 17

Glass U S (STRONG) TOP		Glass U S (STRONG) SIDE		Glass U P2 (PRECISION 2) TOP		Glass U P2 (PRECISION 2) SIDE	
<p>This system is designed for public spaces subject to high traffic, such as museums, shopping centres, theatres and auditoriums. It can withstand a 300kg/ml side-wind and meets most security regulations. Not only does it have the usual fastening system, but it is also characterised by a patented distancing system for glass which enhances its solidity.</p>				<p>This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system. The Glass U P2 system has successfully passed the most stringent tests and offers aesthetic lines that have made the system such a popular option.</p>			
Well frequented public places				Public area			
20.76, 21.52, 31.52		20.76, 21.52, 31.52		15, 16.76, 17.52, 19, 20.76, 21.52		15, 16.76, 17.52, 19, 20.76, 21.52	
12.90kg/ml		12.90kg/ml		8.01kg/ml		8.01kg/ml	
Floor Anchoring		Lateral Anchoring		Floor Anchoring		Lateral Anchoring	
Linear		Stairways Linear		Stairways Linear		Stairways Linear	
18 - 19		20 - 21		22 - 23		24 - 27	

GLASS U A (AVANT-GARDE) TOP 1



Glass U A is ideal for private homes, bars, restaurants and most public places, thanks to increased load resistance. In addition to the classic fixing system, it is equipped with a patented glass spacer system that increases its strength.



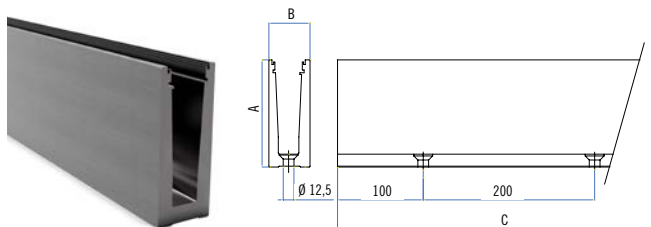
Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.

Profiles are provided with:

- closure tops
- spacers to insert at the end of each glass panel
- spacers for the base of each profile to allow the flow of water
- fastening wedges in synthetic material
- rubber closure seals for various glass thicknesses, see table

DESCRIPTION OF KIT ELEMENTS

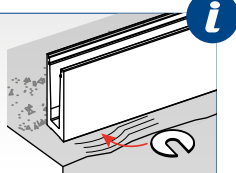
PROFILE	WEDGE SET	GASKET



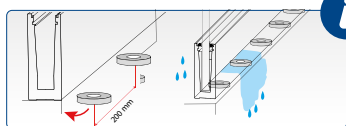
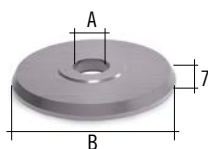
ALUMINIUM	A	B	C
E1800130	125mm	48mm	3000mm



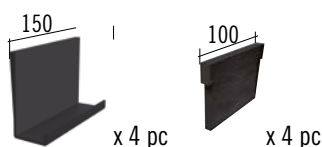
LEVELLING KITS FOR SURFACES THAT MAY NOT BE LEVEL



ALUMINIUM	THICKNESS	Kit
E1800380	1 - 2mm	5+5 pc

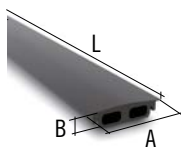


ALUMINIUM	A	B	Kit
E1800351	Ø 20mm	Ø 48mm	15 pc

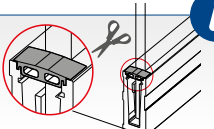


Fixing kit for 1m balustrade

PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm

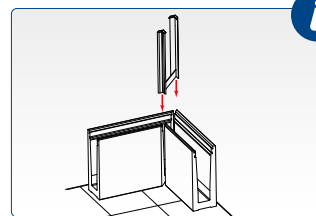
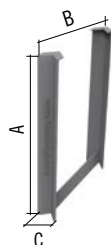
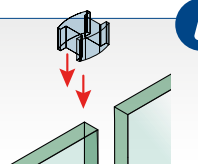


SPACERS CAN BE CUT TO SIZE TO MEET THE NEEDS OF YOUR PROJECT!

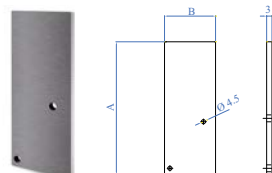


RUBBER	A	B	L
E1999004	45mm	10.5mm	500mm

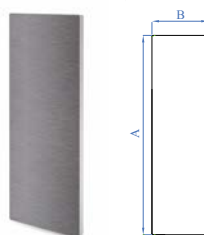
FOR AN EASY ALIGNMENT OF THE GLASS, YOU CAN USE E00992 AND E00993. SEE PAGE 36



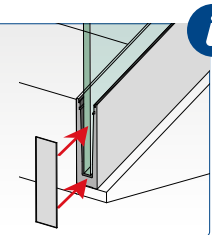
AISI316	A	B	C
E1999001	125mm	78mm	15mm



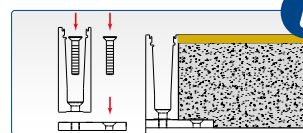
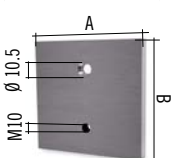
ALUMINIUM	A	B
E1800215	125mm	48mm



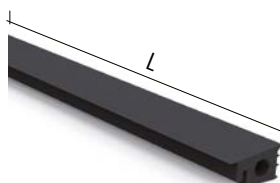
END CAP TO BE APPLIED BY DOUBLE-SIDED STICKY TAPE E91904



ALUMINIUM	A	B
E1800219	170mm	48mm

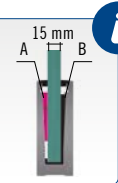


IRON	A	B
E1800360	100mm	100mm

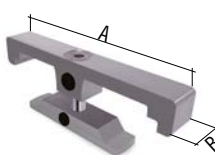


For 15mm - thick glass, use the rubbers as shown in the graphic.

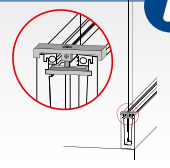
Side A E1804620
Side B E1803620



RUBBER	GLASS THICKNESS	L
E1804620	12.76-13.52mm and 15mm	30 m
E1803620	16.76-17.52 and 19mm	30 m
E1806620	20.76 and 21.52mm	30 m

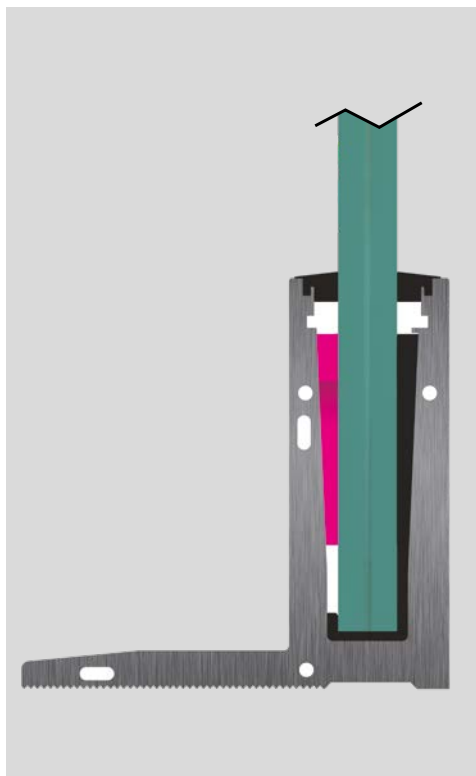


SPACERS, WHICH ARE INSERTED AT THE END OF EACH GLASS, GUARANTEE MORE SAFETY AND STABILITY TO THE PROFILE. ALIGNS THE PROFILE AND REDUCES THE GLASS FLEX UP TO 30%



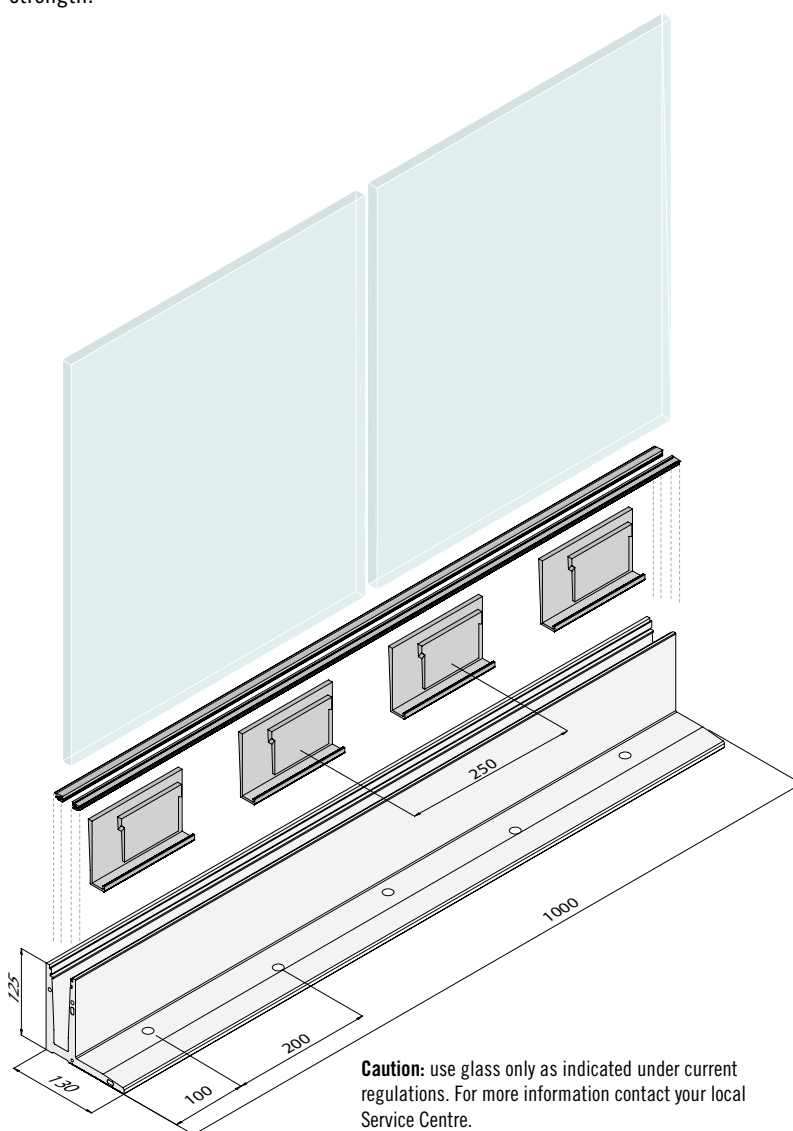
AISI316	A	B
E1800240	58mm	15mm

GLASS U A (AVANT-GARDE) TOP 2



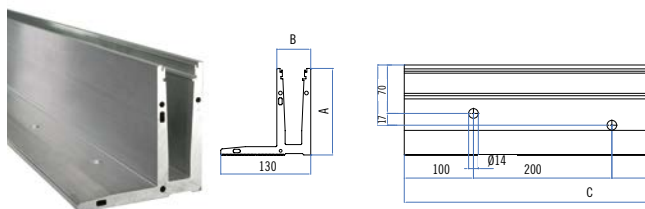
Profiles are provided with:

- closure tops
- spacers to insert at the end of each glass panel
- spacers for the base of each profile to allow the flow of water
- fastening wedges in synthetic material
- rubber closure seals for various glass thicknesses, see table

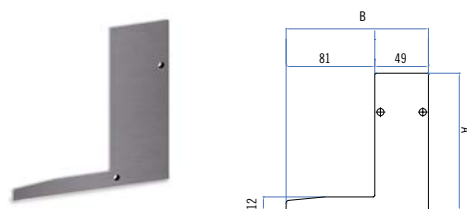


DESCRIPTION OF KIT ELEMENTS

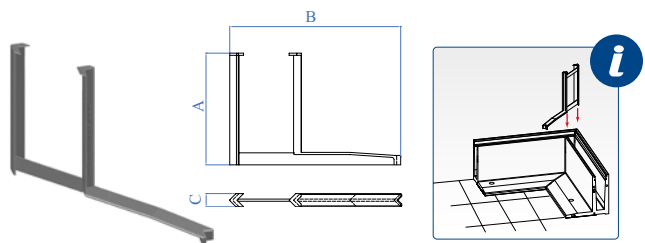
PROFILE	WEDGE SET	GASKET



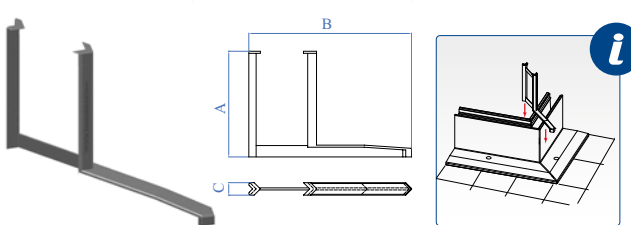
ALUMINIUM	A	B	C
E1800170	125mm	49mm	3000mm



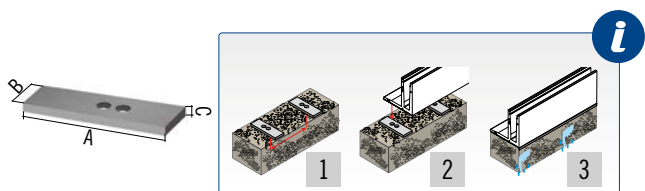
ALUMINIUM	A	B
E1800217	125mm	130mm



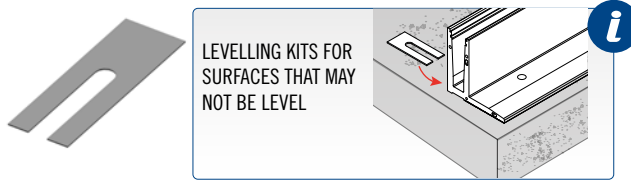
AISI316	A	B	C
E1999005	127mm	195mm	15mm



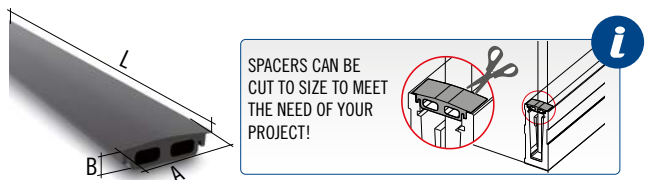
AISI316	A	B	C
E1999006	127 mm	195mm	15 mm



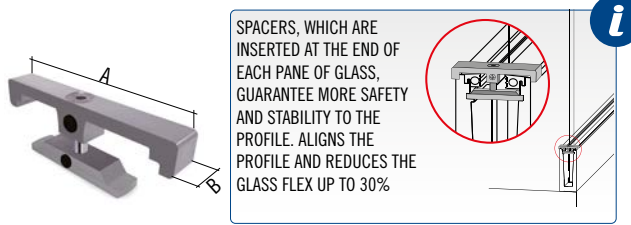
ALUMINIUM	A	B	C	Kit
E1800345	11mm	40mm	6mm	15 pc



ALUMINIUM	THICKNESS	Kit
E1800375	1 - 2mm	5+5 pc



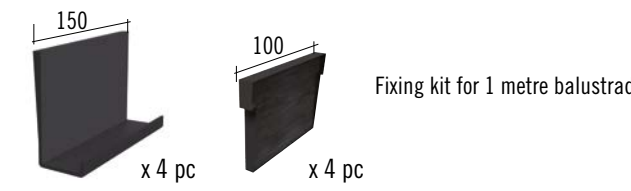
RUBBER	A	B	L
E1999004	45mm	10.5mm	500mm



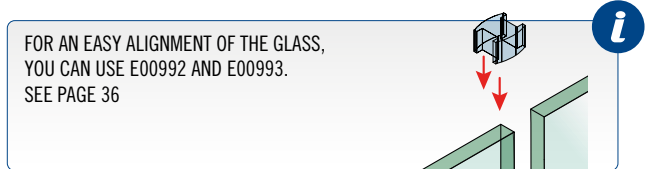
AISI316	A	B
E1800240	58mm	15mm



RUBBER	GLASS THICKNESS	L
E1804620	12.76-13.52mm and 15mm	30m
E1803620	16.76-17.52 and 19mm	30m
E1806620	20.76 and 21.52mm	30m

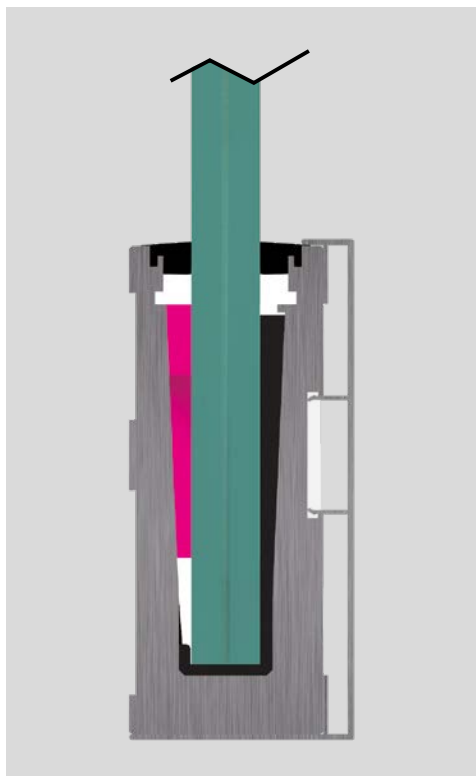


PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm



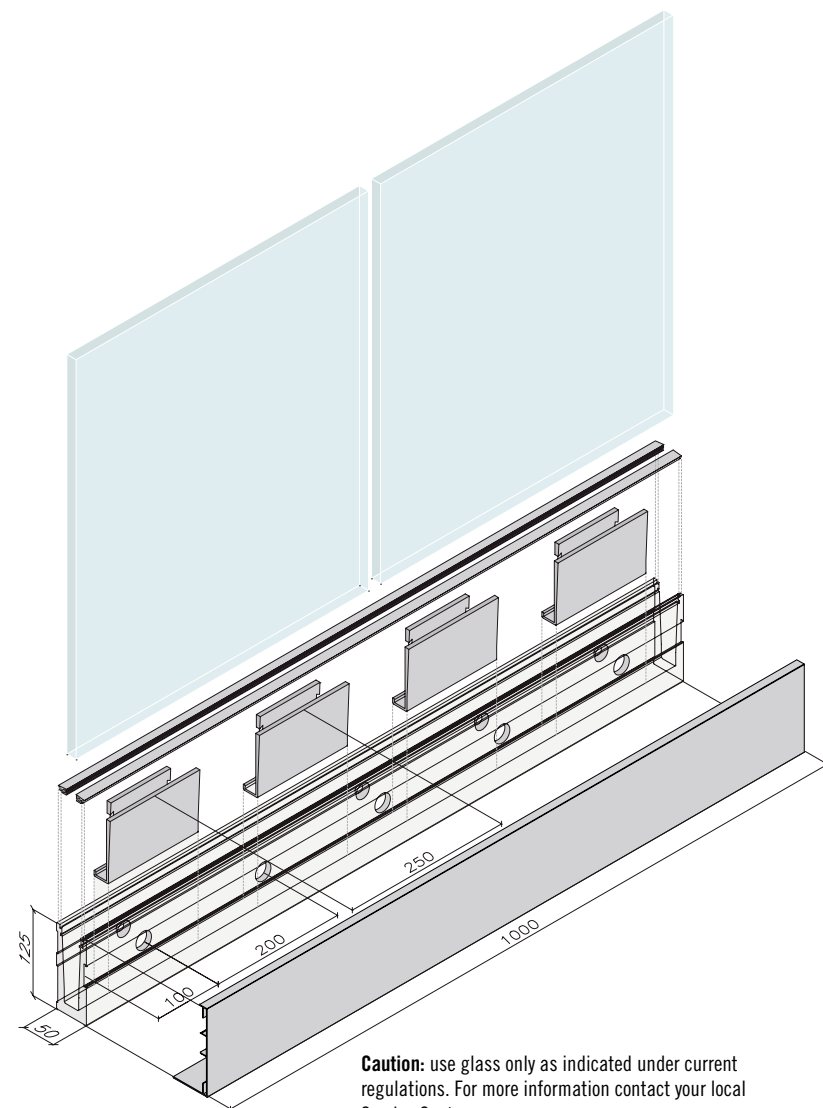
FOR AN EASY ALIGNMENT OF THE GLASS, YOU CAN USE E00992 AND E00993. SEE PAGE 36
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GLASS U A (AVANT-GARDE) SIDE 1



Profiles are provided with:

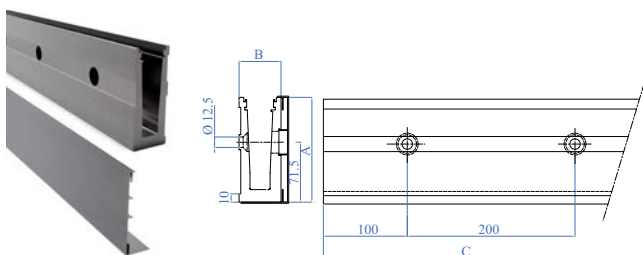
- closure tops
- spacers to insert at the end of each glass panel
- spacers for the base of each profile to allow the flow of water
- fastening wedges in synthetic material
- rubber closure seals for various glass thicknesses, see table



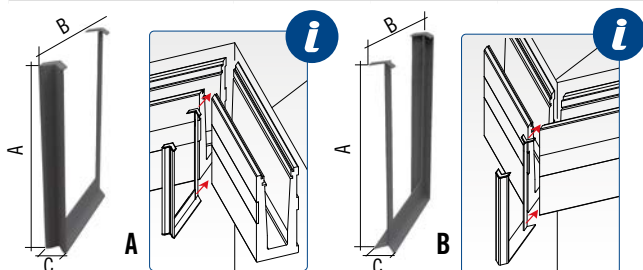
Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.

DESCRIPTION OF KIT ELEMENTS

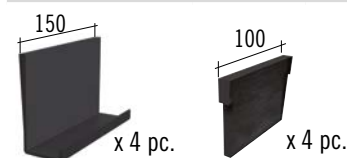
PROFILE	WEDGE SET	GASKET



ALUMINIUM	A	B	C
E1800140	125mm	50mm	3000mm



AISI316	A	B	C	MODEL
E1999002	127mm	79mm	15mm	A
E1999003	127mm	78mm	15mm	B



Fixing kit for 1 metre balustrade

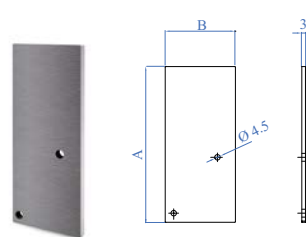
PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm



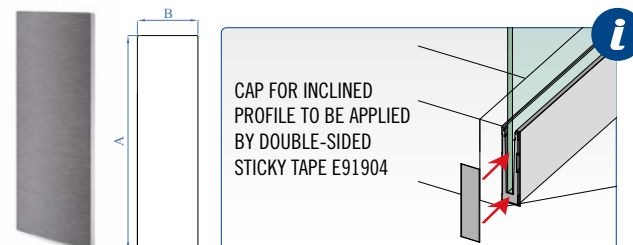
AISI316	GALVANIZED IRON	DESCRIPTION
E037	I037	Certified screws for Glass U



RUBBER	GLASS THICKNESS	L
E1804620	12.76-13.52mm and 15mm	30m
E1803620	16.76-17.52 and 19mm	30m
E1806620	20.76 and 21.52mm	30m



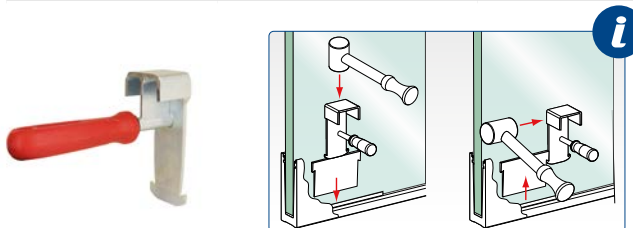
ALUMINIUM	A	B
E1800216	128mm	58mm



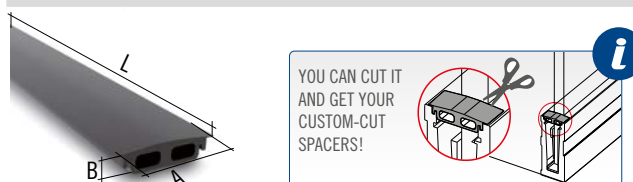
ALUMINIUM	A	B
E1800218	170mm	58mm



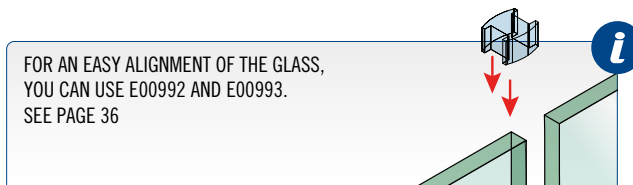
ALUMINIUM	THICKNESS	Kit
E1800375	1 - 2mm	5+5 pc



DESCRIPTION
E40588 Tool for insertion and removal of the wedges from the profile

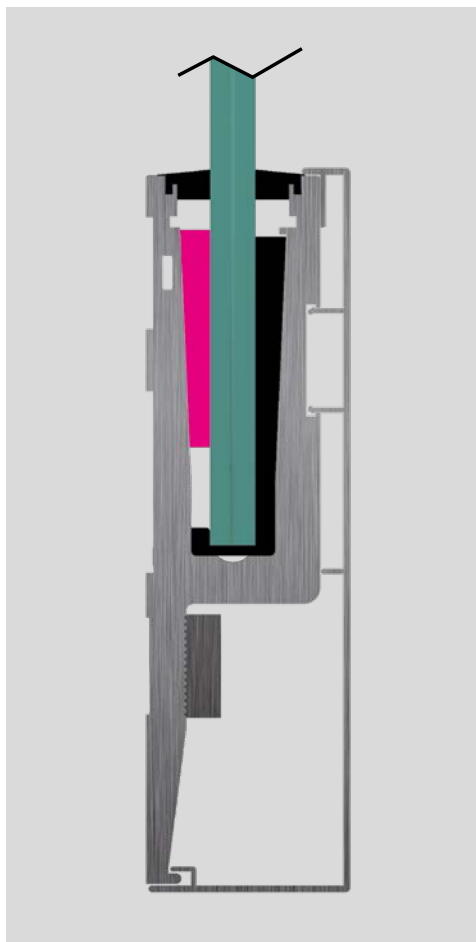


RUBBER	A	B	L
E1999004	45mm	10.5mm	500mm



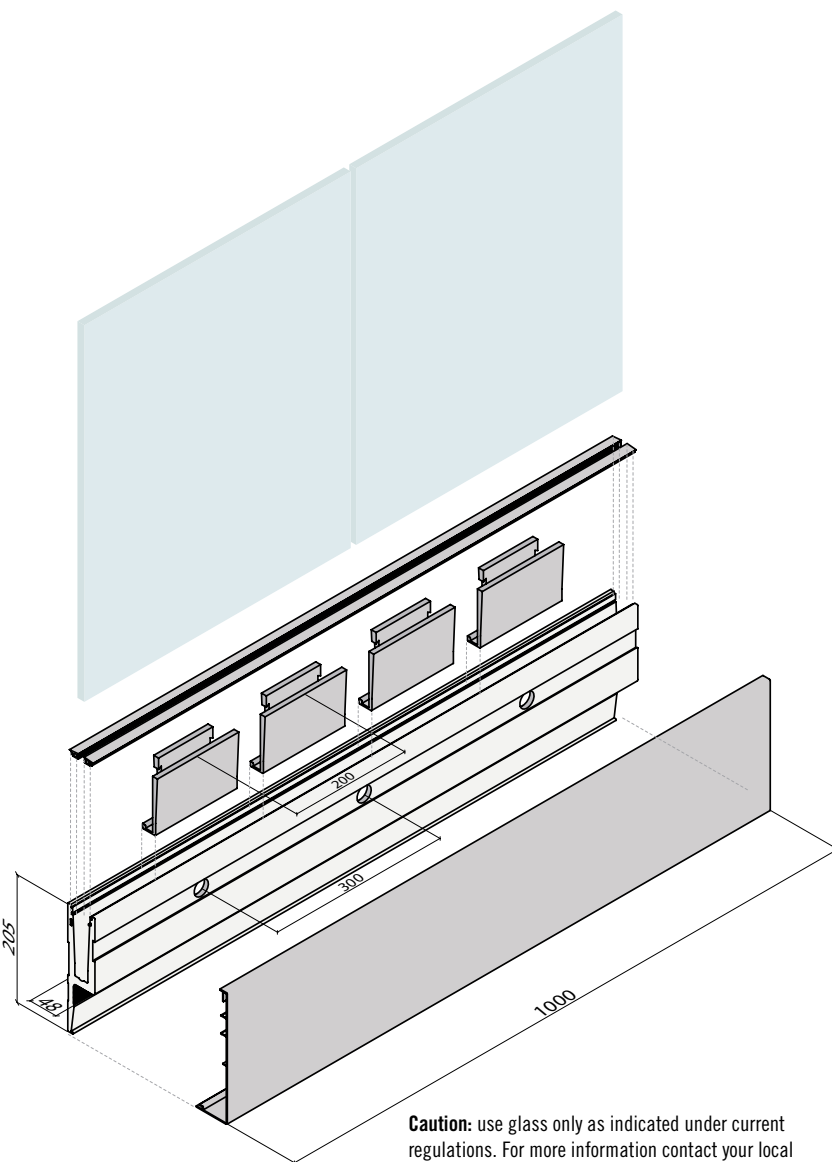
FOR AN EASY ALIGNMENT OF THE GLASS, YOU CAN USE E00992 AND E00993. SEE PAGE 36

GLASS U A (AVANT-GARDE) SIDE 2



Profiles are provided with:

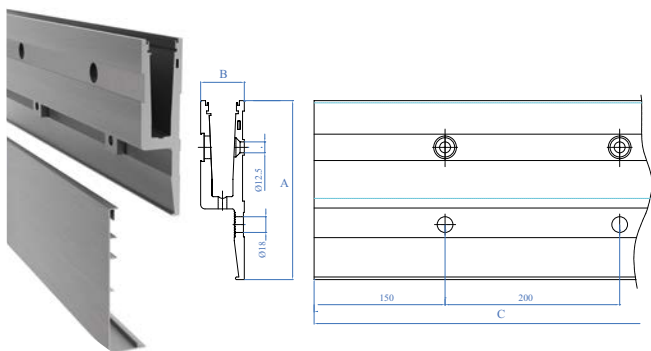
- closure tops
- fastening wedges in synthetic material
- rubber closure seals for various glass thicknesses, see table



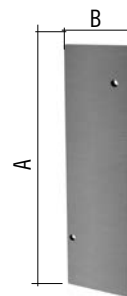
Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.

DESCRIPTION OF KIT ELEMENTS

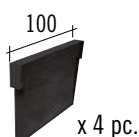
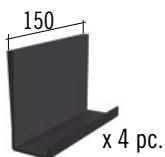
PROFILE	WEDGE SET	GASKET
		



ALUMINIUM	A	B	C
E1800180	205mm	50mm	3000mm



ALUMINIUM	A	B
E1800290	210mm	59mm

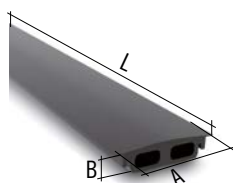


Fixing kit for 1 metre balustrade

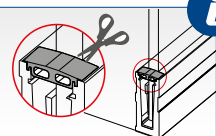
x 4 pc.

x 4 pc.

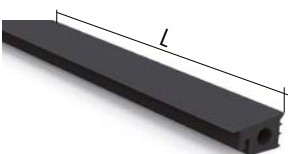
PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm



YOU CAN CUT IT
AND GET YOUR
CUSTOM-CUT
SPACERS!



RUBBER	A	B	L
E1999004	45mm	10.5mm	500mm



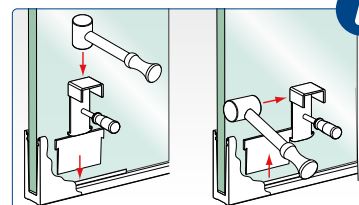
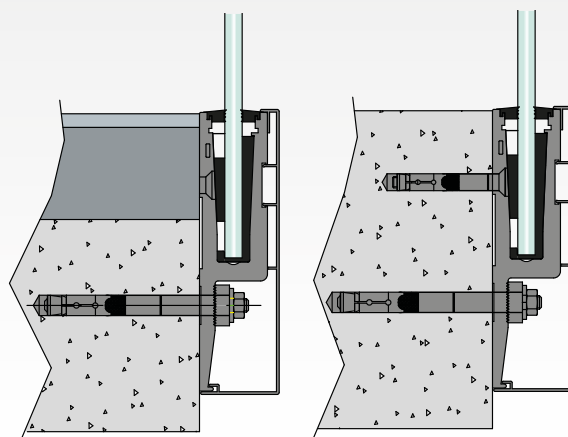
For 15mm-thick glass,
use the rubbers as shown
in the graphic.



Side A E1804620
Side B E1803620

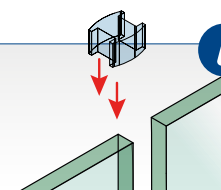
RUBBER	GLASS THICKNESS	L
E1804620	12.76-13.52mm and 15mm	30m
E1803620	16.76-17.52 and 19mm	30m
E1806620	20.76 and 21.52mm	30m

The Glass U Side Mounting System gives maximum freedom of anchorage by varying the fixing height. Thanks to its multiple fixing points, the system can be anchored to the floor level even where there are non-load-bearing layers such as the screed

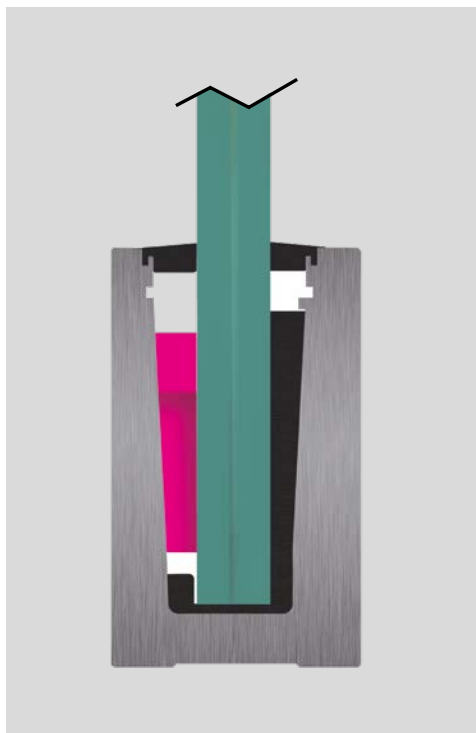


DESCRIPTION
E40588 Tool for insertion and removal of the wedges from the profile

FOR AN EASY ALIGNMENT OF THE GLASS,
YOU CAN USE E00992 AND E00993.
SEE PAGE 36



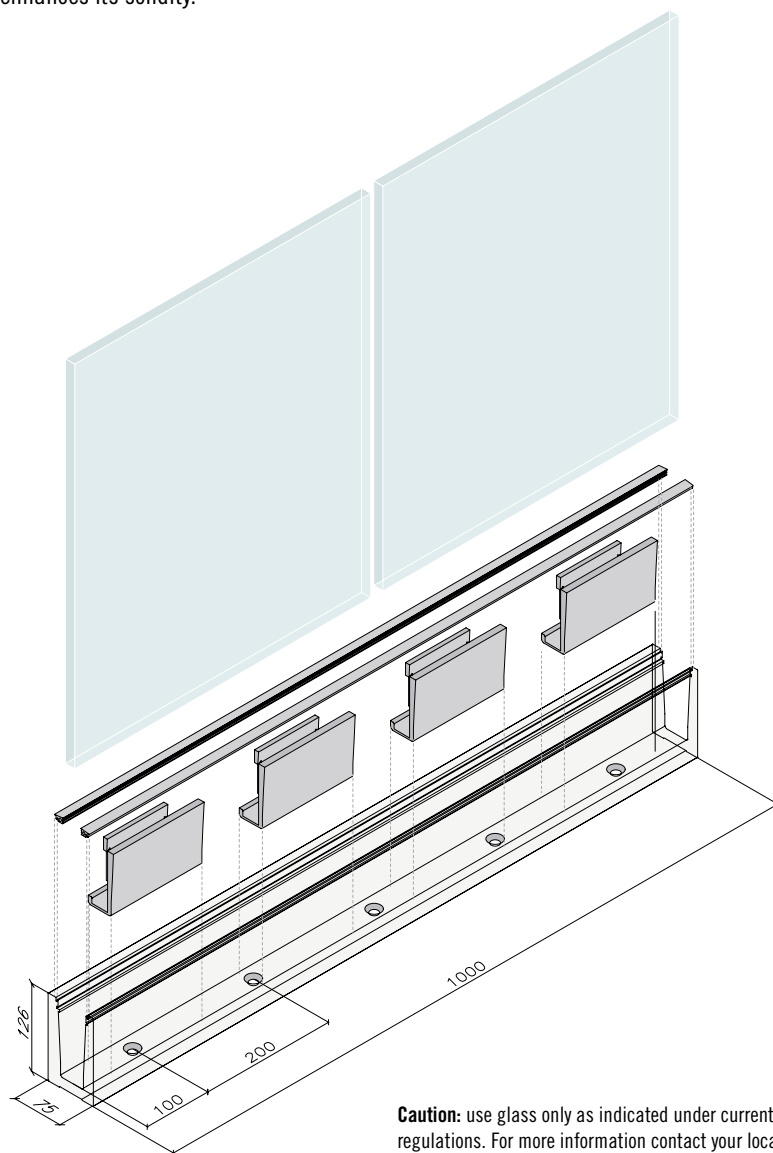
GLASS U S (STRONG) TOP



This system is designed for public spaces subject to high traffic such as museums, shopping centres, theatres and auditoriums. It withstands a 300kg/ml side-wind and meets most security regulations. Not only does it have the usual fastening system, but it is also characterised by a patented distancing system for glass which enhances its solidity.

Profiles are provided with:

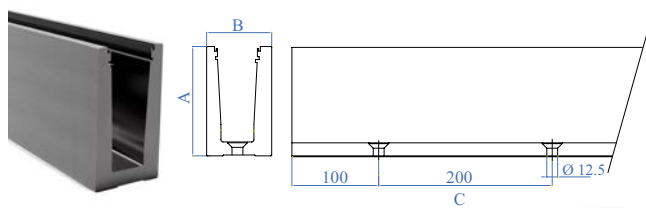
- closure tops
- spacers to insert at the end of each glass panel
- spacers for the base of each profile to allow the flow of water
- supporting bracket to apply wall profiles
- closure profiles



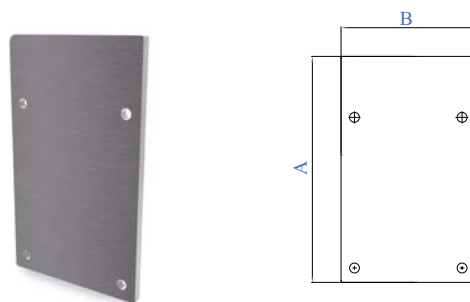
Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.

DESCRIPTION OF KIT ELEMENTS

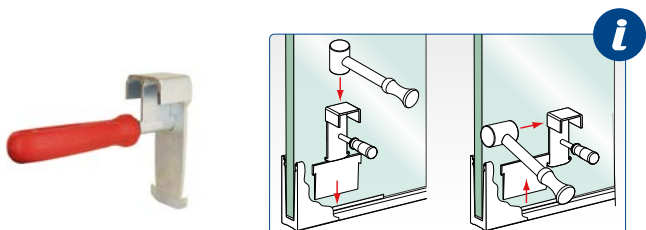
PROFILE	WEDGE SET	GASKET



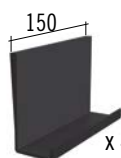
ALUMINIUM	A	B	C
E1800120	126mm	75mm	3000mm



ALUMINIUM	A	B
E1800210	126mm	75mm



DESCRIPTION	
E40588	Tool for insertion and removal of the wedges from the profile



x 4 pc.

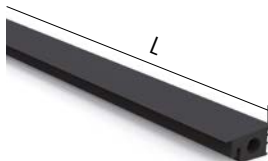
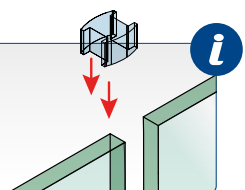


x 4 pc.

Fixing kit for 1 metre balustrade

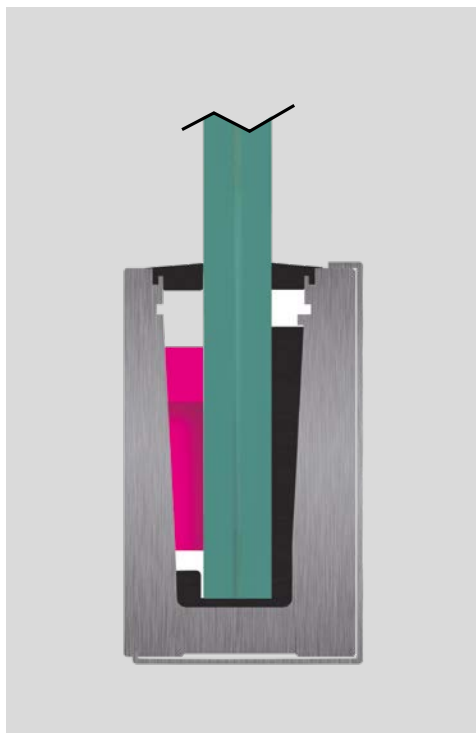
PLASTIC	GLASS THICKNESS
E1801600	20.76 and 21.52mm
E1802600	24.76 and 25.52mm
E1803600	31.52mm

FOR AN EASY ALIGNMENT OF THE GLASS,
YOU CAN USE E00992 AND E00993.
SEE PAGE 36



RUBBER	GLASS THICKNESS	L
E1801620	20.76 and 21.52mm	30m
E1802620	24.76 and 25.52mm	30m
E1803620	31.52mm	30m

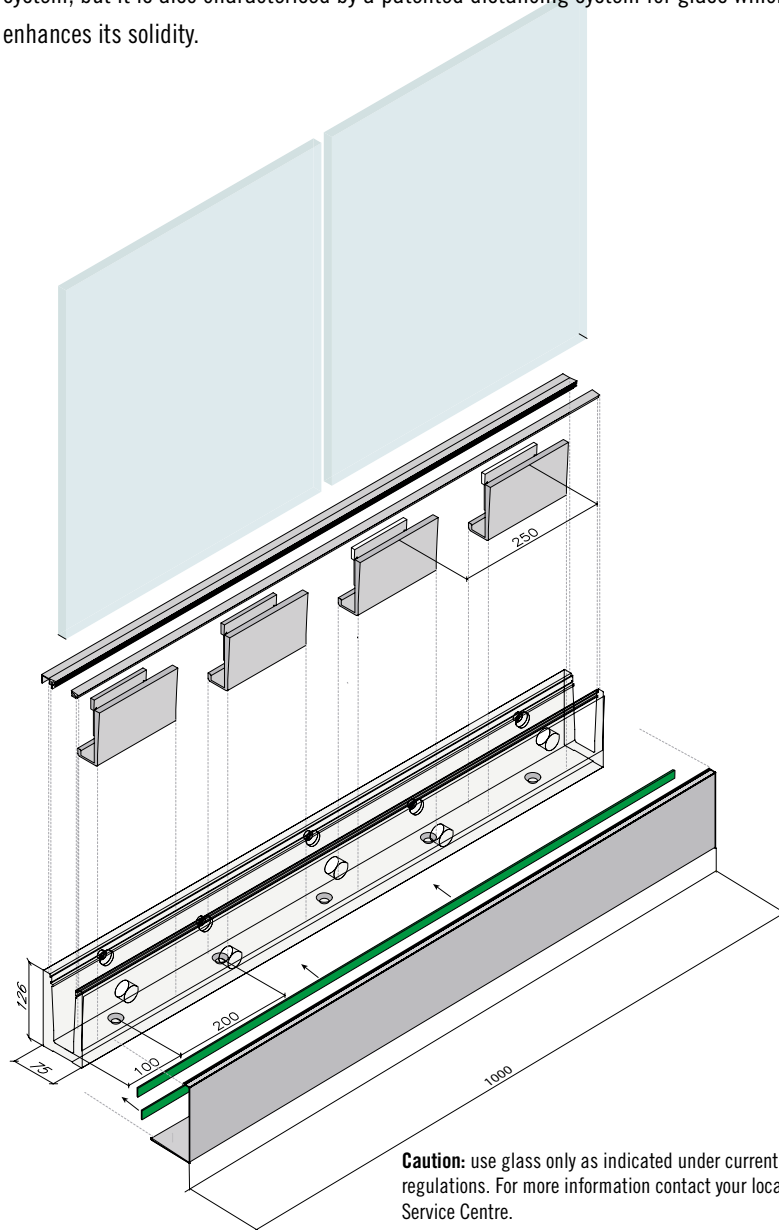
GLASS U S (STRONG) SIDE



This system is designed for public spaces subject to high traffic such as museums, shopping centres, theatres and auditoriums. It withstands a 300kg/ml side-wind and meets most security regulations. Not only does it have the usual fastening system, but it is also characterised by a patented distancing system for glass which enhances its solidity.

Profiles are provided with:

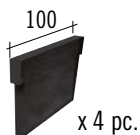
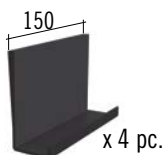
- closure tops
- spacers to insert at the end of each glass panel
- spacers for the base of each profile to allow the flow of water
- supporting bracket to apply wall profiles
- closure profiles



Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.

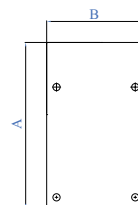
DESCRIPTION OF KIT ELEMENTS

PROFILE	COVER	LOCKING KIT	GASKET

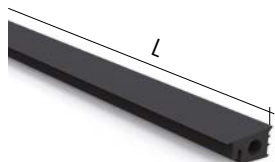


Fixing kit for 1 metre balustrade

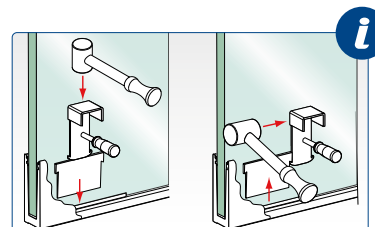
PLASTIC	GLASS THICKNESS
E1801600	20.76 and 21.52mm
E1803600	31.52mm



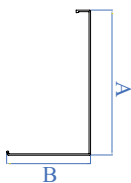
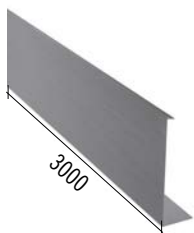
ALUMINIUM	A	B
E1800210	126mm	75mm



RUBBER	GLASS THICKNESS	L
E1801620	20.76 and 21.52mm	30m
E1802620	24.76 and 25.52mm	30m
E1803620	31.52mm	30m

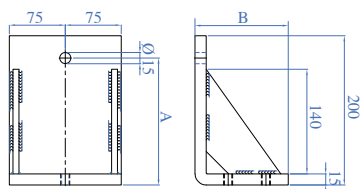
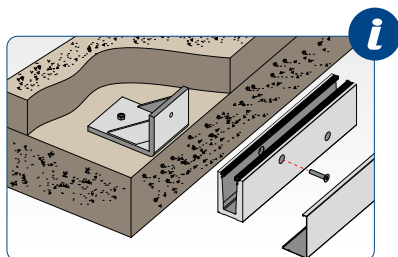
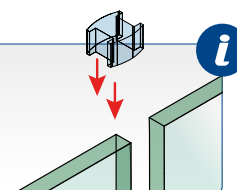


DESCRIPTION	
E40588	Tool for insertion and removal of the wedges from the profile



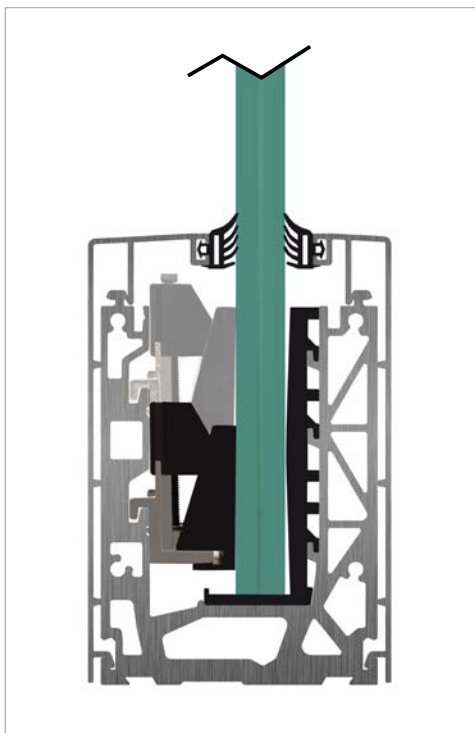
ALUMINIUM	A	B
E1800330	130mm	75mm

FOR AN EASY ALIGNMENT OF THE GLASS,
YOU CAN USE E00992 AND E00993.
SEE PAGE 36



GALVANIZED IRON	A	B
E1800500	170mm	125mm

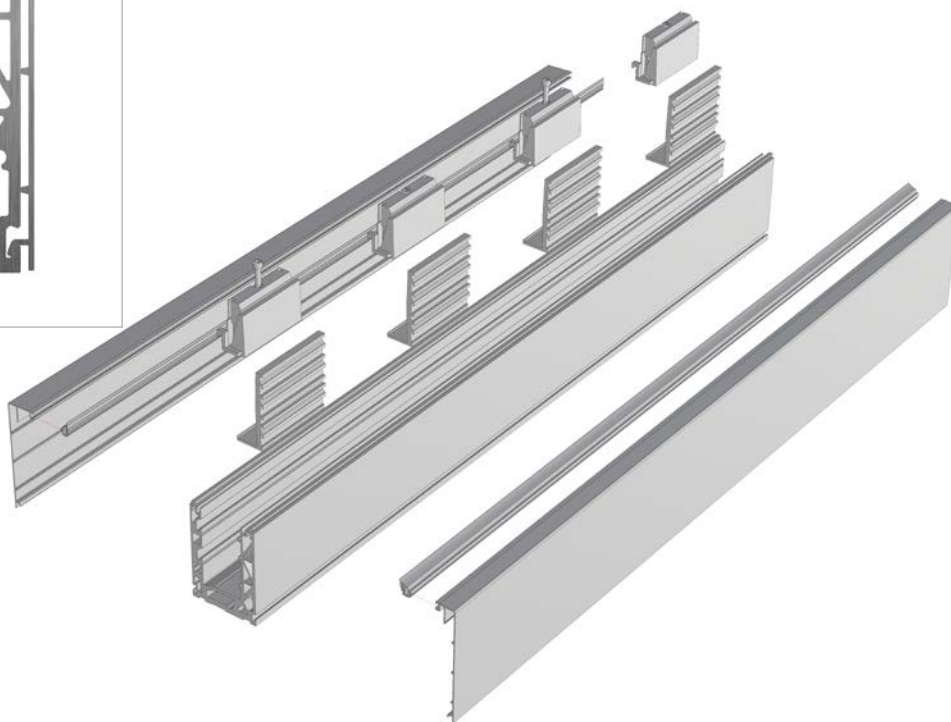
GLASS U P2 (PRECISION 2) TOP








This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system. The Glass U P2 system has successfully passed the most stringent tests and offers aesthetic lines that have made the system such a popular option.

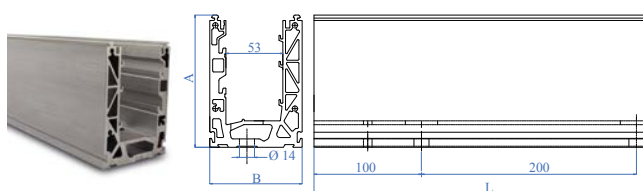
The system's interior represents the true innovation with the new ACE-BLOCK regulation system. The mechanical and functional characteristics allow easier installation while increasing performance resistance.

Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.



DESCRIPTION OF KIT ELEMENTS

PROFILE	COVER	COVER	LOCKING KIT	GASKET
				



Pre-drilled profile for floor anchorage with channels for water drainage

ALUMINIUM	A	B	L
E1700803	123mm	86mm	3000mm
E1700800	123mm	86mm	6000mm



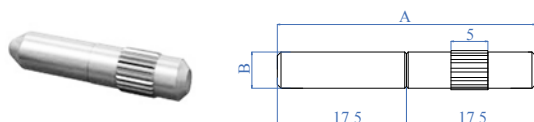
External side cover plate for floor anchorage

ALUMINIUM	A	B	L
E1700833	24mm	140mm	3000mm
E1700830	24mm	140mm	6000mm



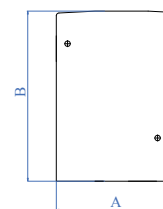
Glass fixing kit - use 1 kit (4 blocks) for each metre of profile. For higher loadings (1.5kN) - use kit containing 6 blocks per metre.

IRON-ZINC PLASTIC	GLASS THICKNESS	Kit ⊕
E1700810/15	15-16.76-17.52mm (0.74kN loading)	for 1m
E1700810/19	19-20.76-21.52mm (0.74kN loading)	for 1m
E1700810/19/6	19-20.76-21.52mm (1.5kN loading)	for 1m
E1700810/15/KT30	15-16.76-17.52mm	for 30m
E1700810/19/KT30	19-20.76-21.52mm	for 30m



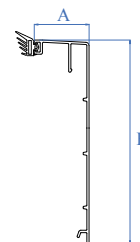
Connection plug for profiles

ALUMINIUM	A	B	Kit ⊕
E1700840	35mm	Ø 5mm	10 pc.
E1700840/KT100	35mm	Ø 5mm	100 pc.



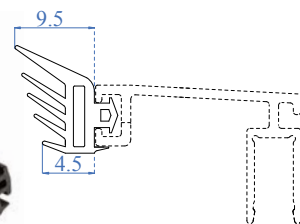
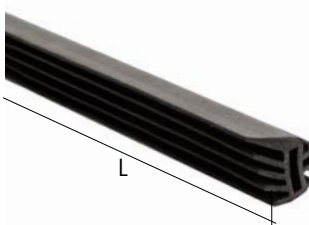
End cap for floor anchorage - 2 pieces

ALUMINIUM	A	B
E1700805	94mm	140mm



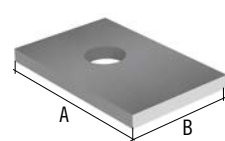
Internal side cover plate for floor anchorage

ALUMINIUM	A	B	L
E1700823	37.5mm	140mm	3000mm
E1700820	37.5mm	140mm	6000mm



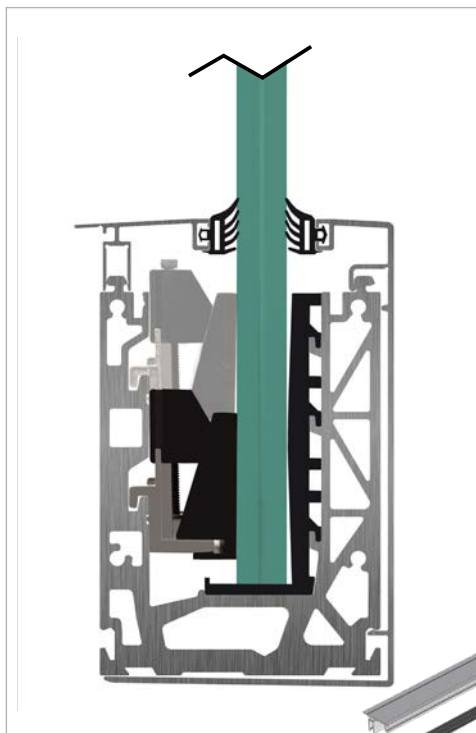
Gaskets kit for outdoor and indoor use

RUBBER	GLASS THICKNESS	L
E1999025	from 15 to 17.52mm	3m
E1999026	from 19 to 21.52mm	3m
E1999025/KT30	from 15 to 17.52mm	30m
E1999026/KT30	from 19 to 21.52mm	30m



ALUMINIUM	A	B	Kit ⊕
E1700845	50mm	80mm	for 3m
E1700845/KT30	50mm	80mm	for 30m

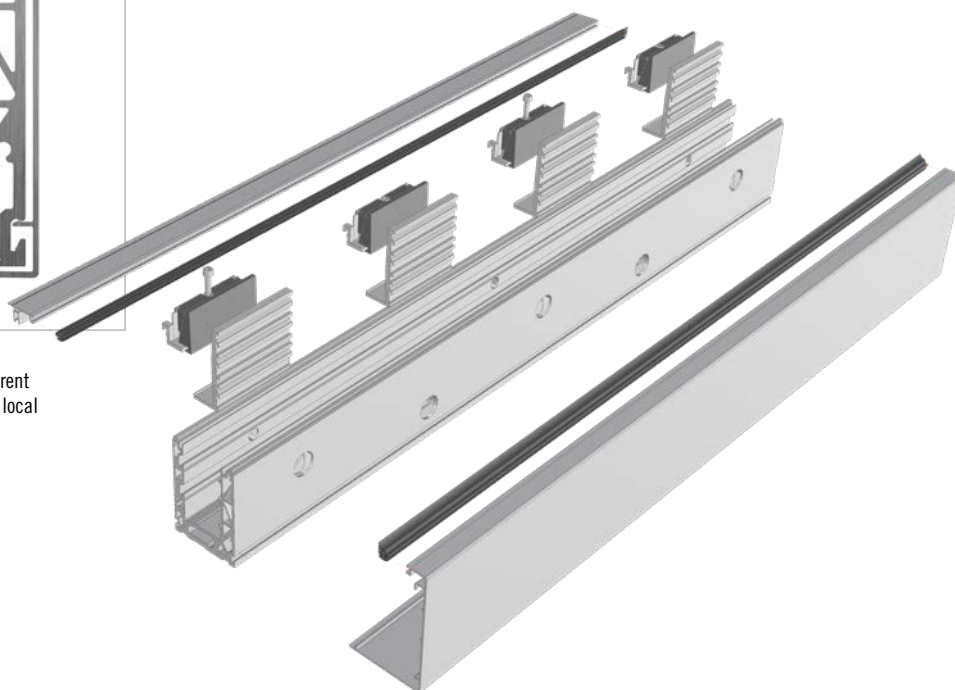
GLASS U P2 (PRECISION 2) SIDE







This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system. The Glass U P2 system has successfully passed the most stringent tests and offers aesthetic lines that have made the system such a popular option.

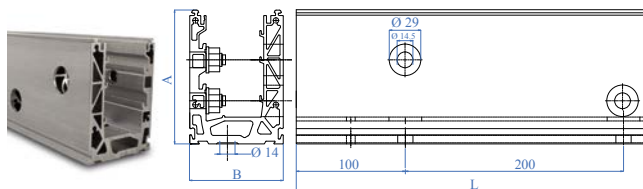
The system's interior represents the true innovation with the new ACE-BLOCK regulation system. The mechanical and functional characteristics allow easier installation while increasing performance resistance.

Caution: use glass only as indicated under current regulations. For more information contact your local Service Centre.



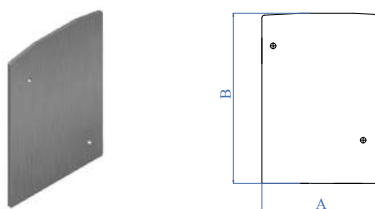
DESCRIPTION OF KIT ELEMENTS

PROFILE	COVER	COVER	LOCKING KIT	GASKET
				



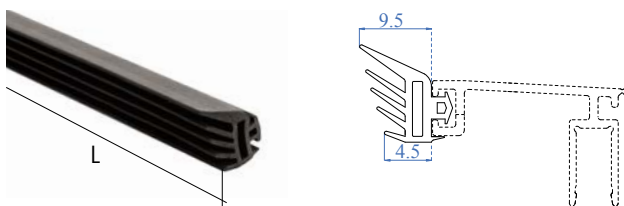
Pre-drilled profile for wall anchorage with channels for water drainage

ALUMINIUM	A	B	L
E1700853	123mm	86mm	3000mm
E1700850	123mm	86mm	6000mm



End cap for wall anchorage - 2 pieces

ALUMINIUM	A	B
E1700855	94mm	140mm



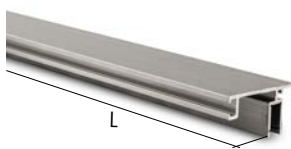
Gaskets kit for outdoor and indoor use

RUBBER	GLASS THICKNESS	L
E1999025	from 15 to 17.52mm	3000mm
E1999026	from 19 to 21.52mm	3000mm
E1999025/KT30	from 15 to 17.52mm	3000mm
E1999026/KT30	from 19 to 21.52mm	3000mm



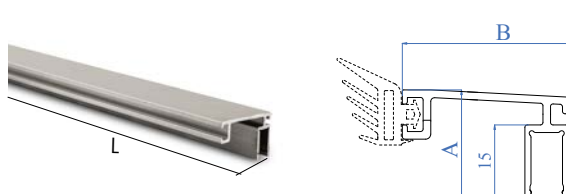
External side cover plate for wall anchorage

ALUMINIUM	A	B	L
E1700863	89mm	144mm	3000mm
E1700860	89mm	144mm	6000mm



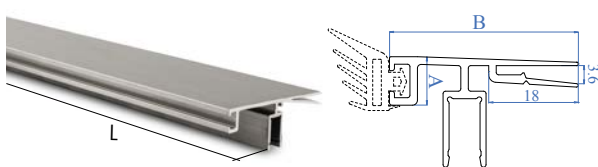
Internal side cover plate for wall anchorage

ALUMINIUM	A	B	L
E1700873	22mm	41.4mm	3000mm
E1700870	22mm	41.4mm	6000mm



External superior side cover plate for wall anchorage

ALUMINIUM	A	B	L
E1700874	22mm	29.6mm	3000mm
E1700871	22mm	29.6mm	6000mm



External superior side cover plate for wall anchorage

ALUMINIUM	A	B	L
E1700893	9.7mm	37.80mm	3000mm
E1700890	9.7mm	37.80mm	6000mm

NEW

GLASS U P2 (PRECISION 2) SIDE

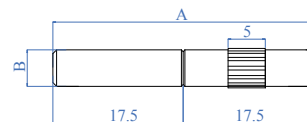


Glass fixing kit - use 1 kit (4 blocks) for each metre of profile. For higher loadings (1.5kN) - use kit containing 6 blocks per metre.

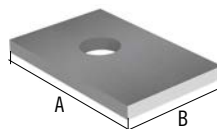
IRON-ZINC PLASTIC	GLASS THICKNESS	Kit
E1700810/15	15-16.76-17.52mm (0.74kN loading)	for 1m
E1700810/19	19-20.76-21.52mm (0.74kN loading)	for 1m
E1700810/19/6	19-20.76-21.52mm (1.5kN loading)	for 1m
E1700810/15/KT30	15-16.76-17.52mm	for 30m
E1700810/19/KT30	19-20.76-21.52mm	for 30m



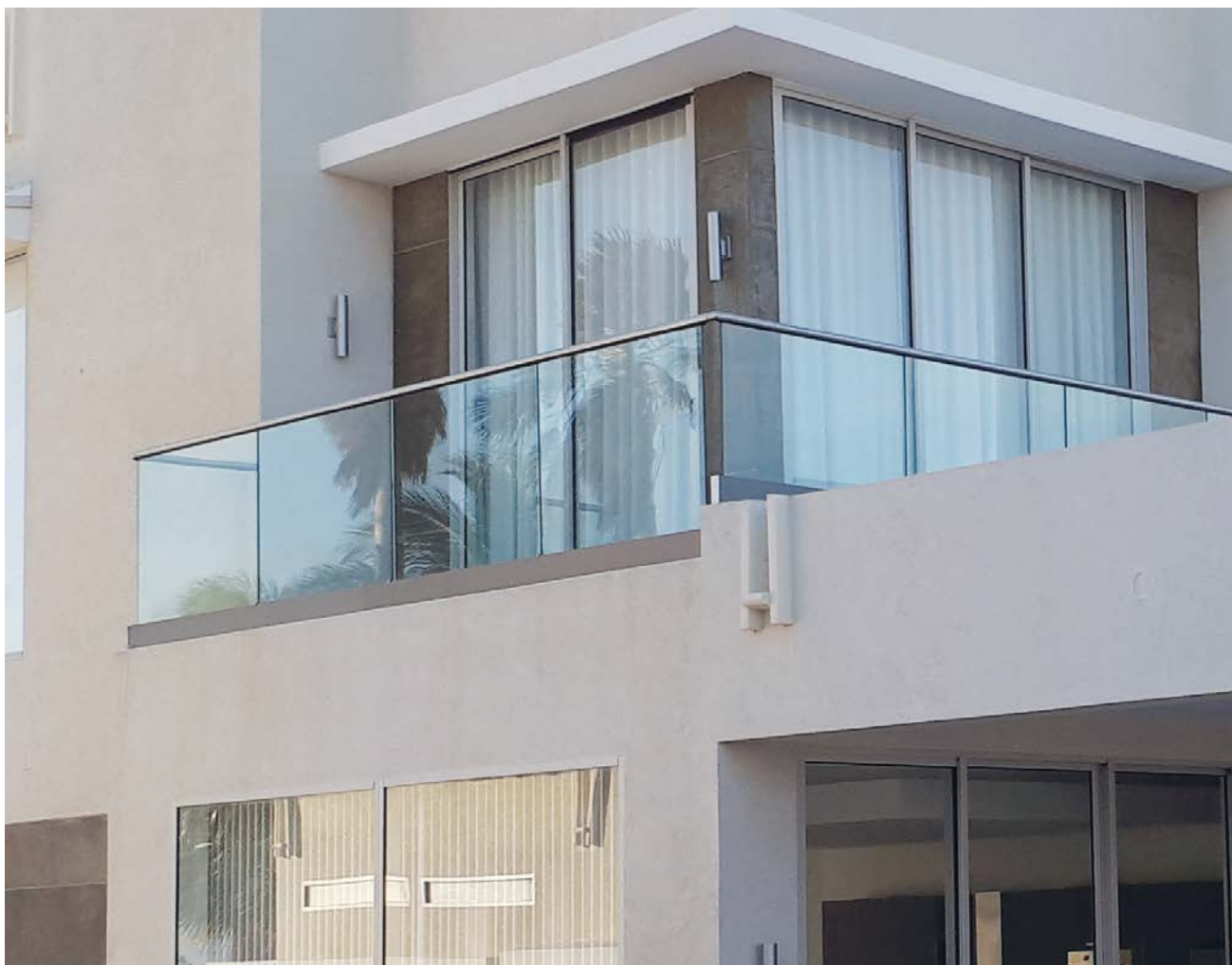
Connection plug for profiles



ALUMINIUM	A	B	Kit
E1700840	35mm	Ø 5mm	10 pc.
E1700840/KT100	35mm	Ø 5mm	100 pc.

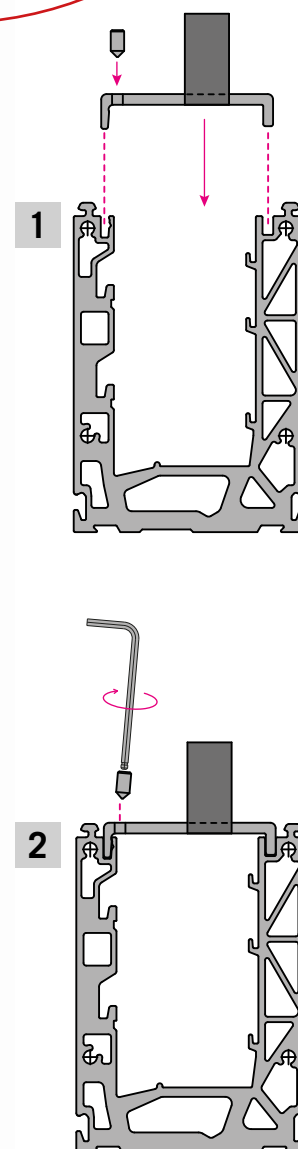
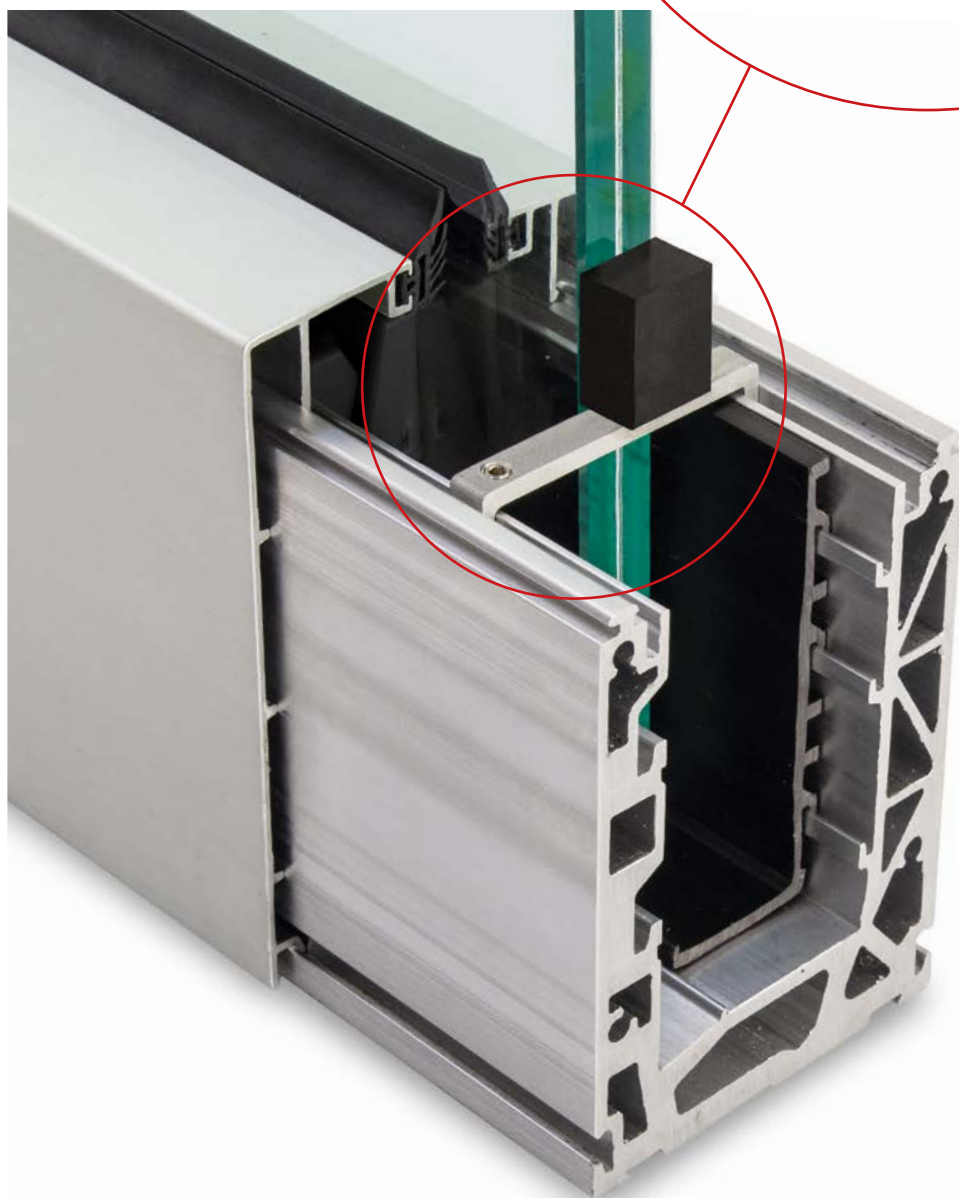
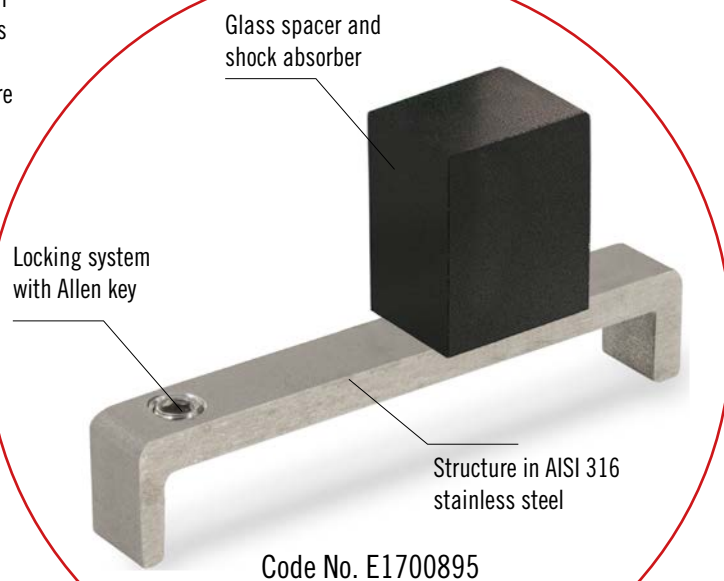


ALUMINIUM	A	B	Kit
E1700845	50mm	80mm	for 3m
E1700845/KT30	50mm	80mm	for 30m



NEW STRONGER TIE ROD

The use of the stronger tie rod is recommended, especially with glass thicknesses greater than 8+8, where the glass thickness is important. It significantly reduces the flex of glass by some 20-25%. It is also ideal in applications where the glass is more than 1200mm high.



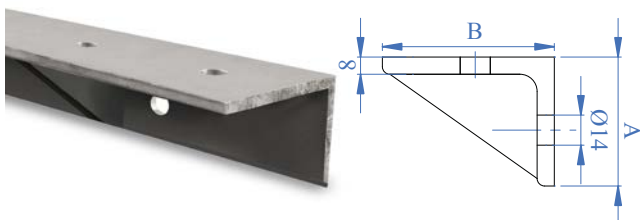
NEW

GLASS U P2 (PRECISION 2) SIDE

GLASS U P2 - ACCESSORIES FOR LATERAL ANCHORAGE

ACCESSORIES FOR LOWERED LATERAL ANCHORAGE

Sometimes, for technical construction site needs, it is necessary to anchor the railing lower than the profile axis. In these circumstances it is possible to use the lateral anchorage brackets and the relevant cover plate.



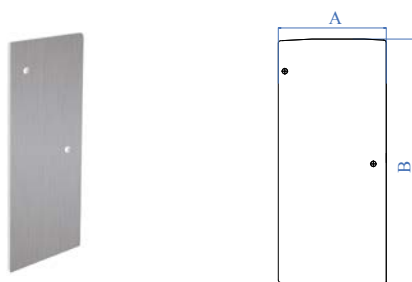
Bracket for wall profile support

IRON - ZINC	A	B	L
E1700875	60mm	80mm	3000mm



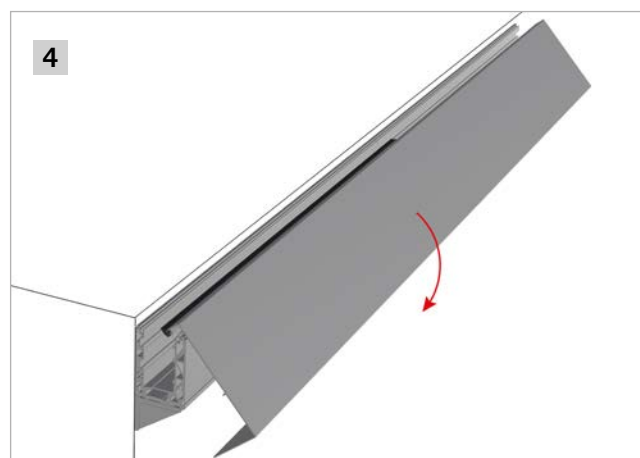
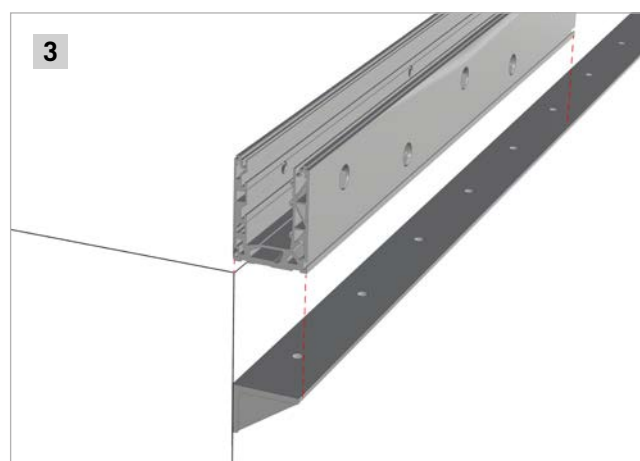
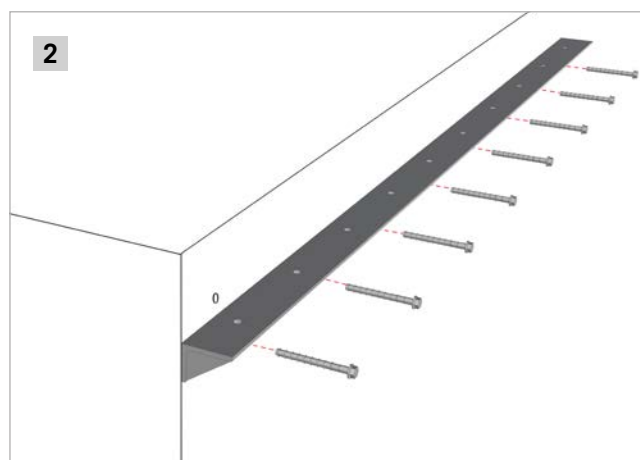
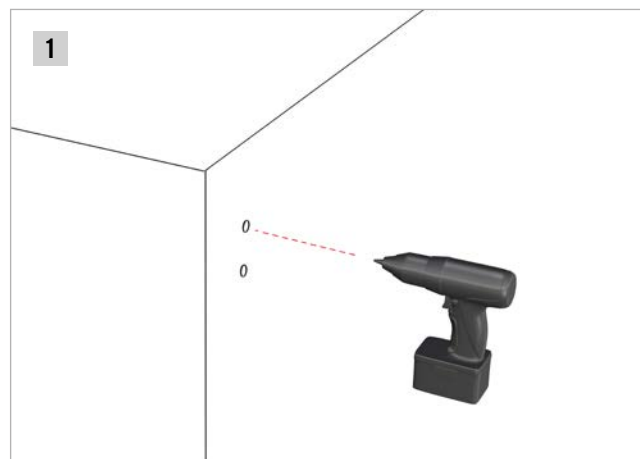
External side cover plate for wall profile with bracket

ALUMINIUM	A	B	L
E1700883	87mm	205mm	3000mm
E1700880	87mm"	205mm	6000mm

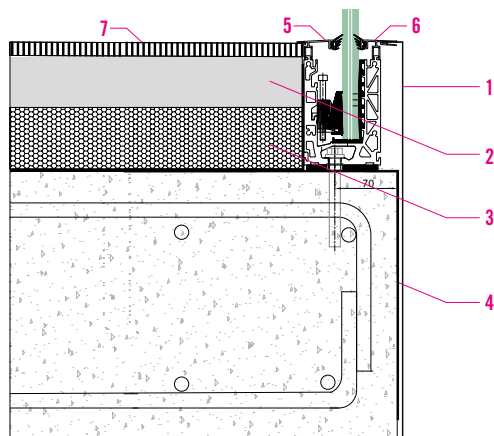


Closing cap for wall profile with bracket

ALUMINIUM	A	B	L
E1700885	90.4mm	205mm	3000mm

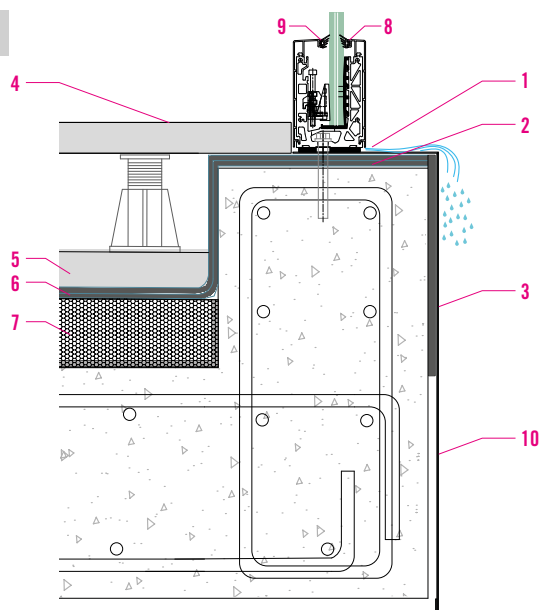


1



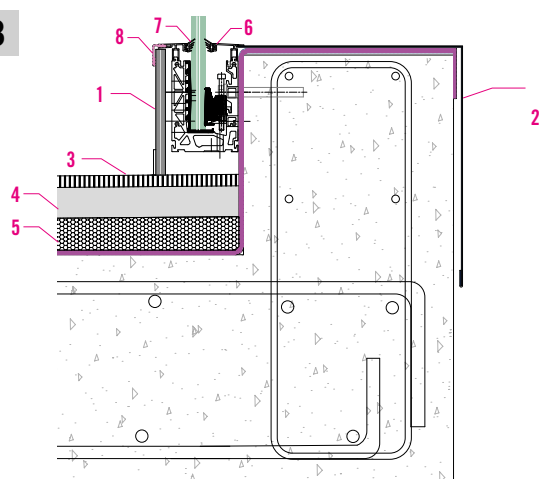
- 1 Cover plate in metal press-bended thickness 0.5mm
- 2 Slope screed
- 3 Isolation layer
- 4 Isolation layer
- 5 Internal plate E1700874
- 6 External plate E1700893
- 7 Floor

2



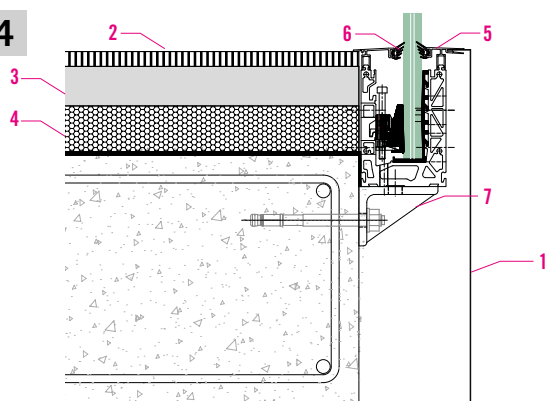
- 1 Water drain
- 2 Closure of possible infiltrations thanks to epoxy resin or liquid membrane
- 3 Flashings
- 4 Floating floor
- 5 Isolation layer
- 6 Impermeable membrane
- 7 Slope screed
- 8 External side cover plate for floor anchorage E1700833
- 9 External side cover plate for floor anchorage E1700823
- 10 Sheet metal flashing or other

3



- 1 External panel like aquapanel
- 2 Sheet metal flashing or other
- 3 Floor
- 4 Screed
- 5 Isolation layer
- 6 Internal side cover plate for wall anchorage E1700873
- 7 External superior side cover plate for wall anchorage E1700833
- 8 Folding sheet

4



- 1 Sheet metal flashing or other
- 2 Floor
- 3 Screed
- 4 Isolation layer
- 5 External plate E1700893
- 6 Internal plate E1700874
- 7 Bracket for wall profile support E1700875

GLASS U P2 - LED ACCESSORIES



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

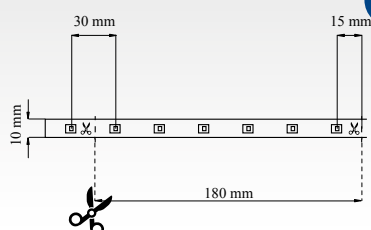
Feeders

	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

The revolutionary LED cable: totally waterproof ultra-bright (over 180 lumens), ultra-thin, flexible easy to install and cut, virtually indestructible

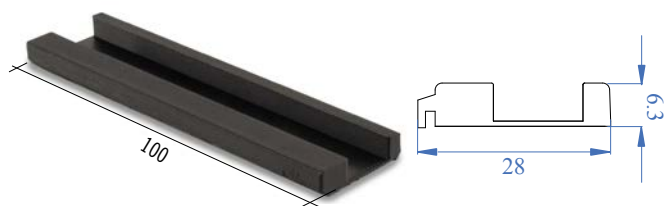


Every 18cm marks indicate where the ribbon can be cut.



LED	METRE
ELED0020	Sold by the metre. Maximum length 20m
Input voltage	24 V
Input current	154 mA
Power	3.7 W/m
Weight	60 g/m
Life time	35,000hrs
Beam angle	110°
Luminosity /m	198 lm
CRI	72
N. Led /18cm	6
Operating Temperature	-20 C° + 50 C°
Use	Indoor/outdoor

GLASS U P2 - LED ACCESSORIES



1 kit = 4 pc.

Housing for LED strip. Use 1 kit every metre of profile.

PLASTIC	A	B	Kit ⊕
E1999027	29mm	13mm	for 1m
E1999027/KT30	29mm	13mm	for 30m



Detail of housing of LED strip.



Insert housing for LED strip inside the channel located on the component with 'L' shape, on which the glass, is placed.



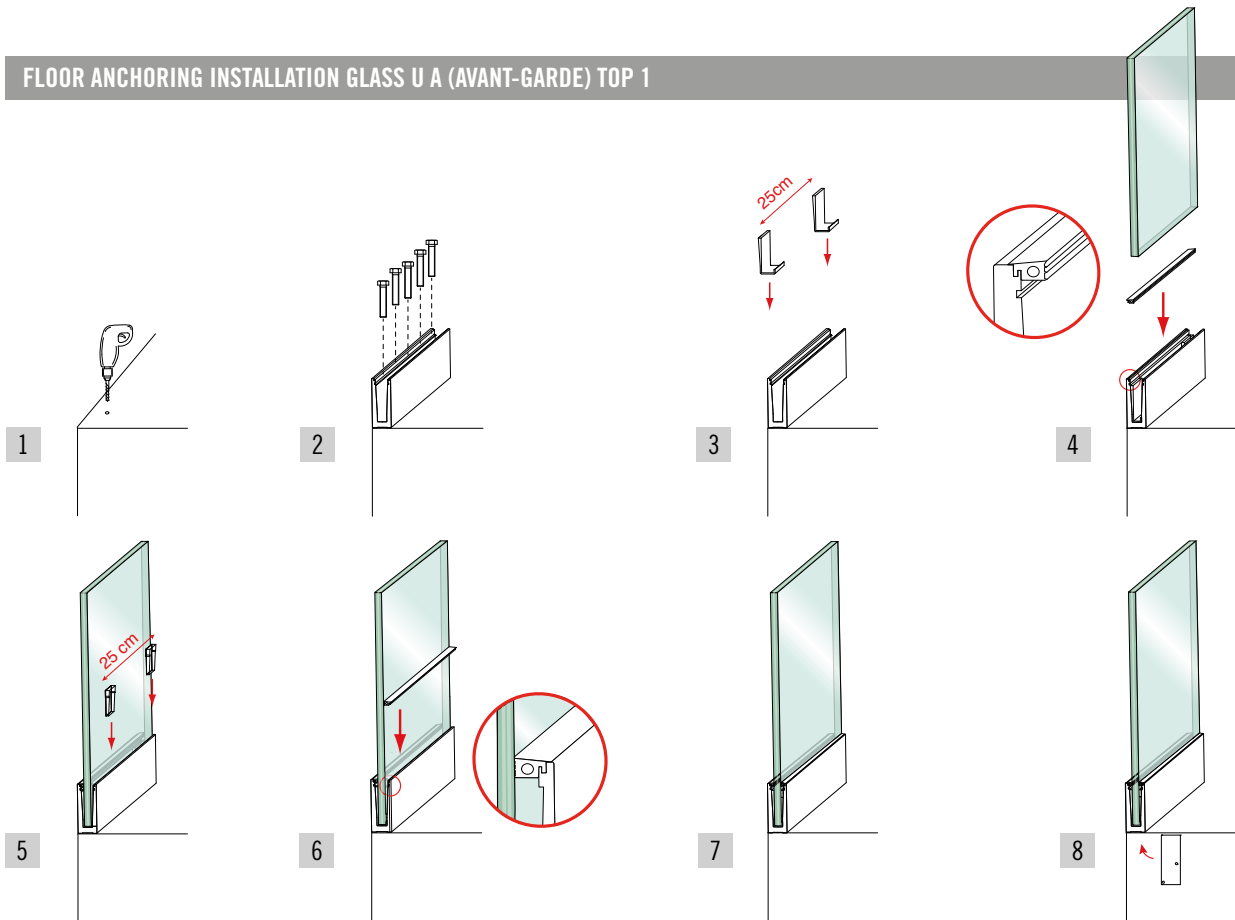
Insert the strip into the appropriate created space and place the glass directly on it.



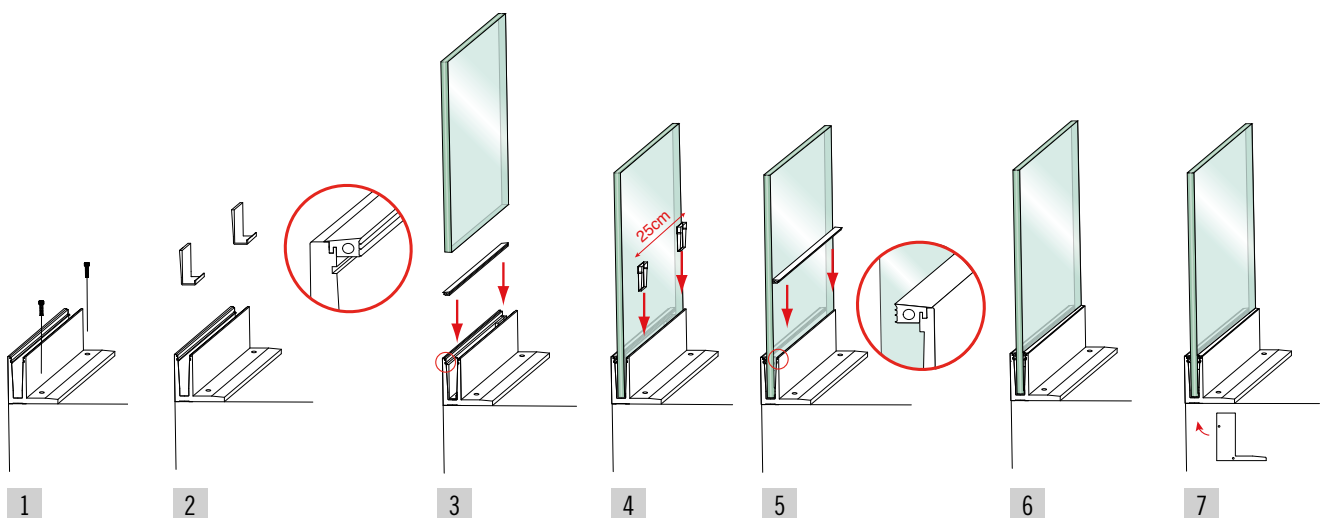
NEW

GLASS U P2 - LED ACCESSORIES

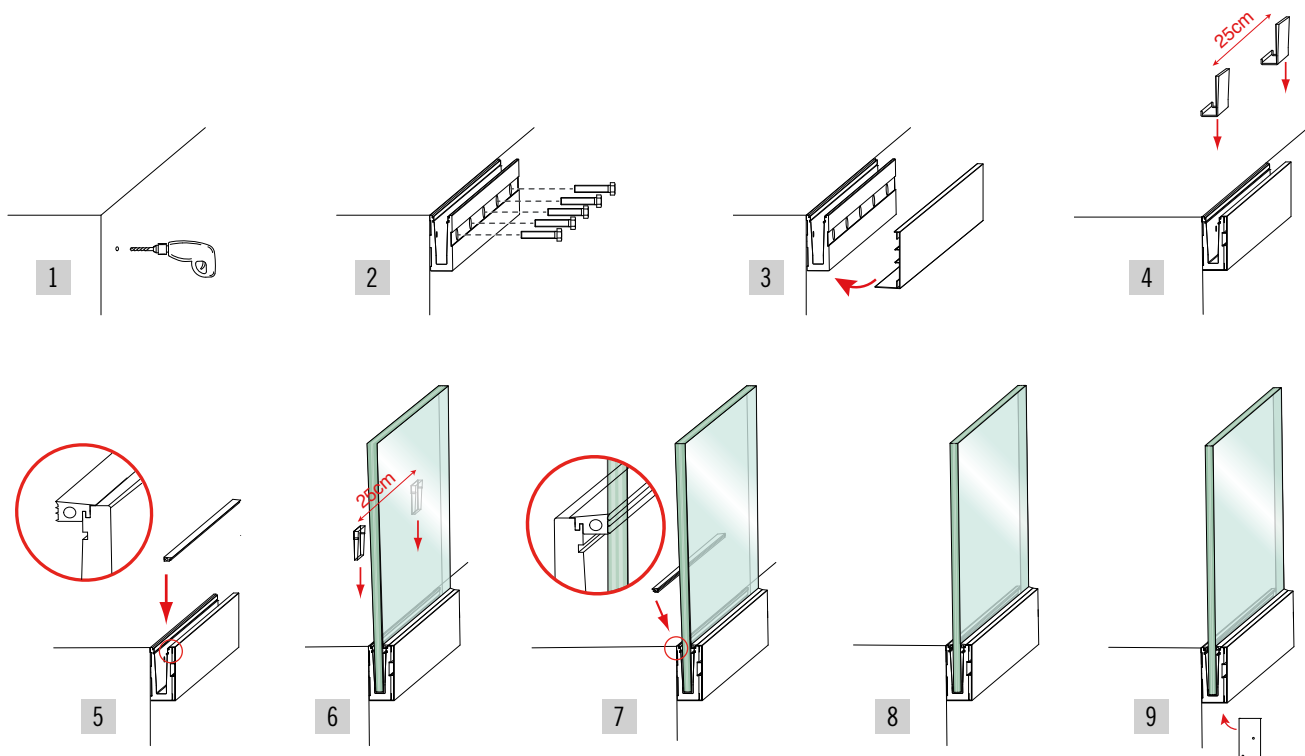
FLOOR ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) TOP 1



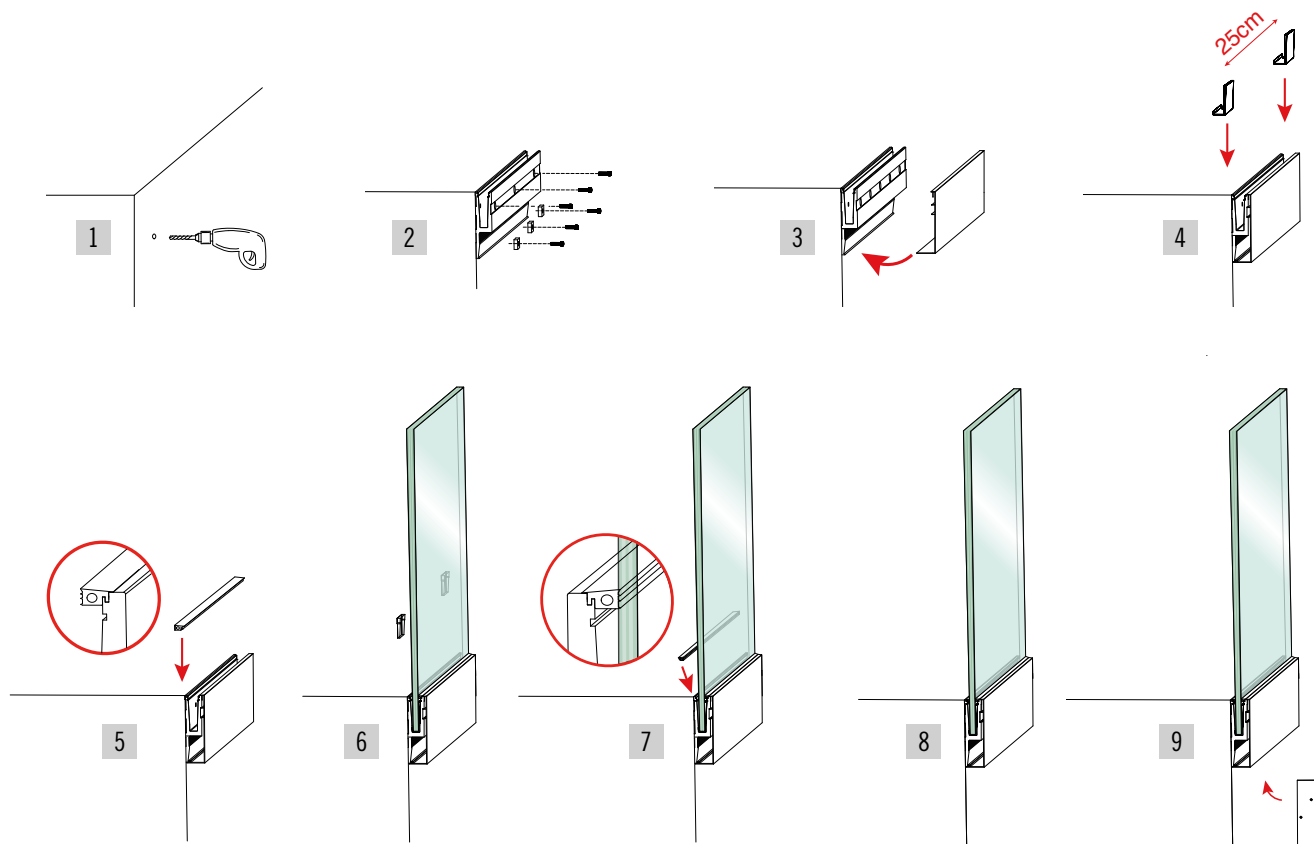
FLOOR ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) TOP 2



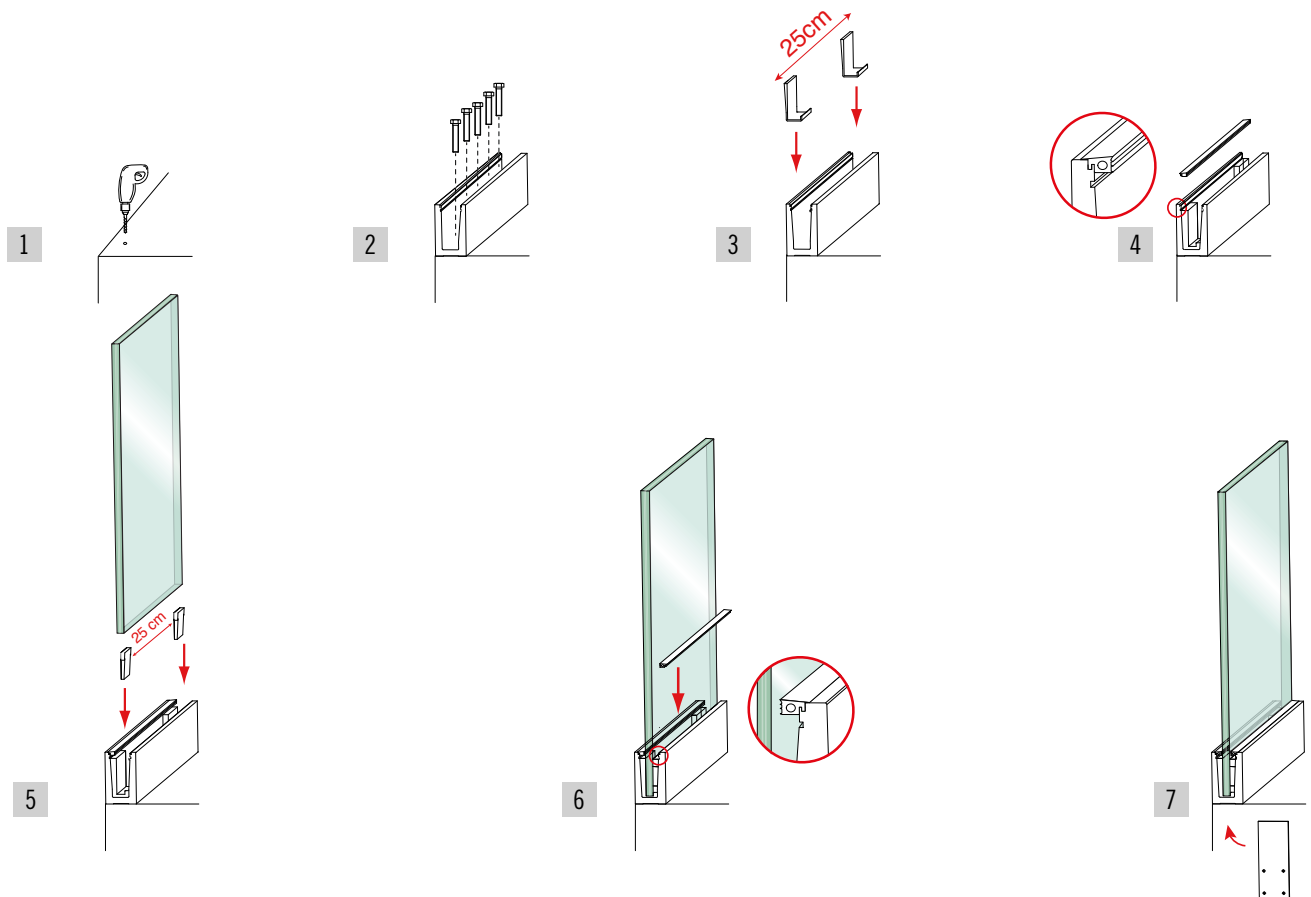
WALL ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) SIDE 1



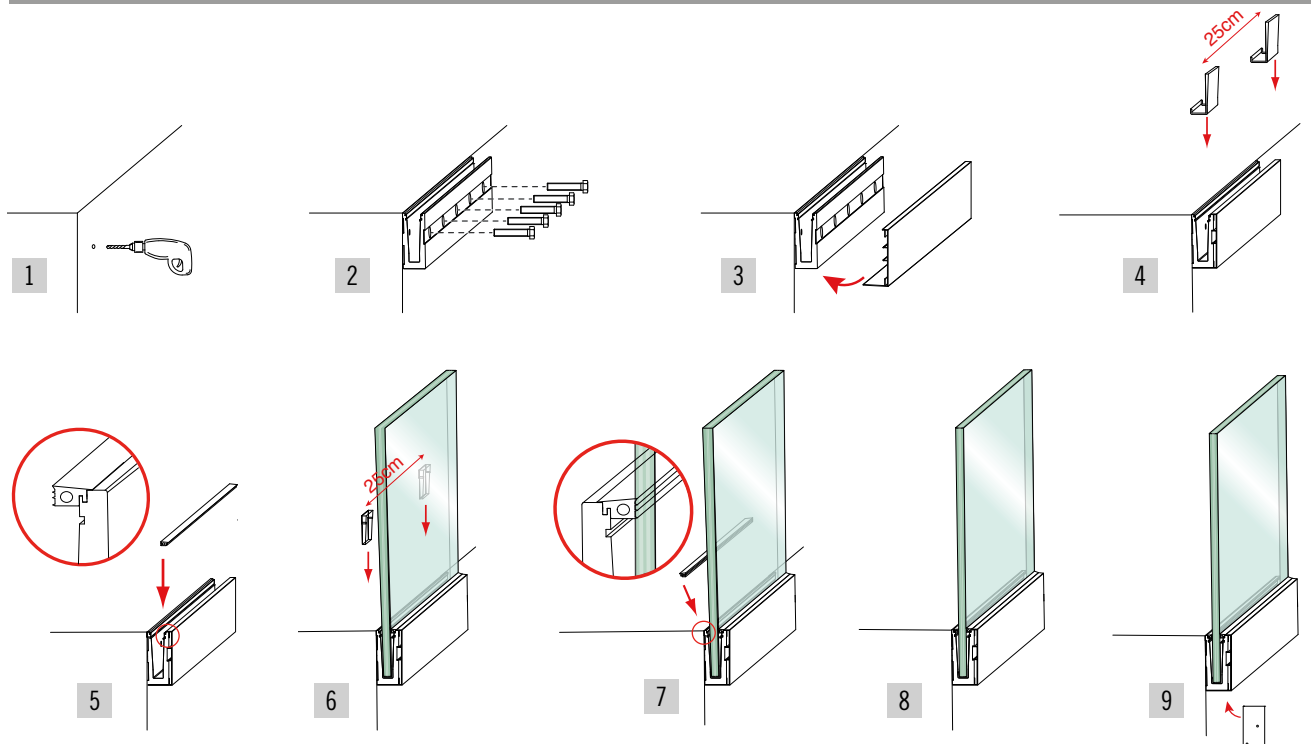
WALL ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) SIDE 2



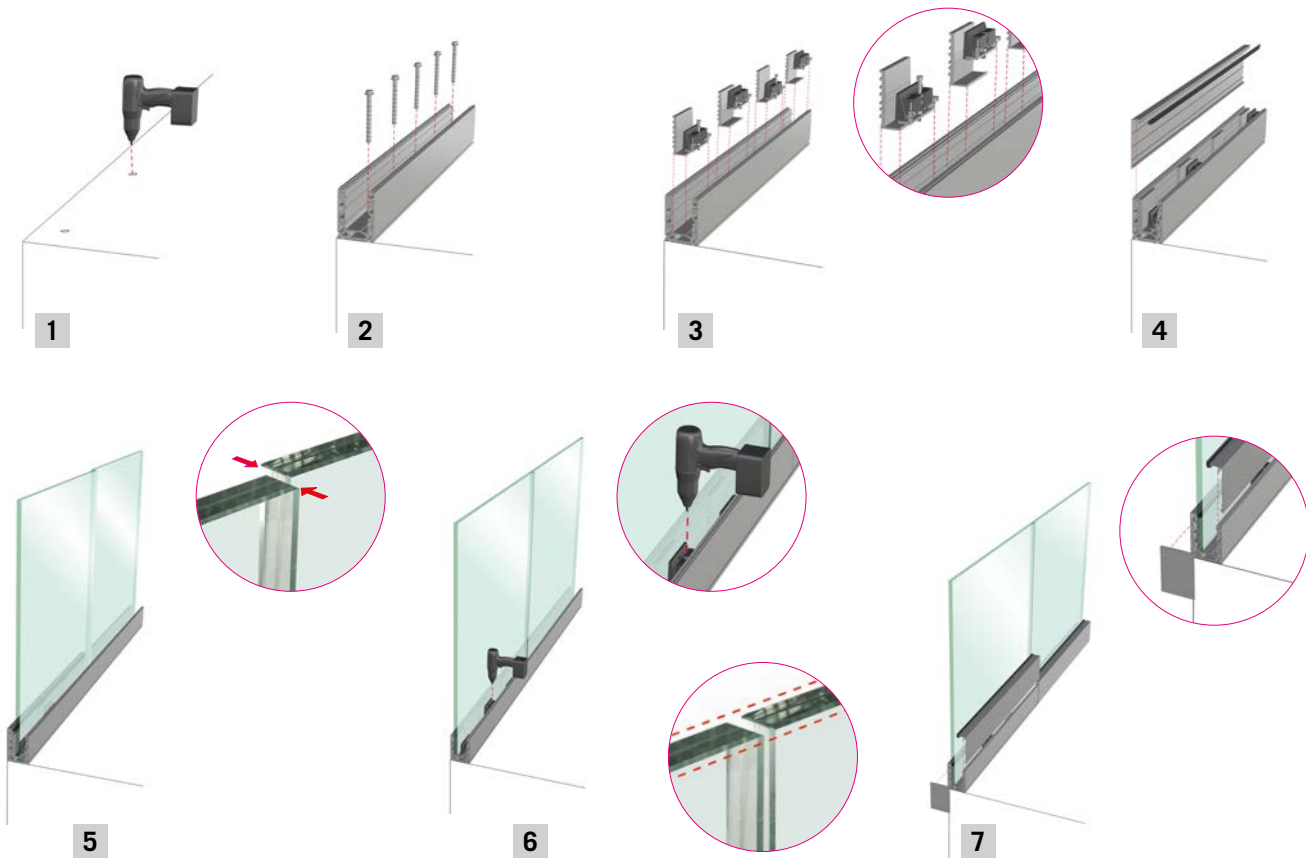
FLOOR ANCHORING INSTALLATION GLASS U S (STRONG) TOP



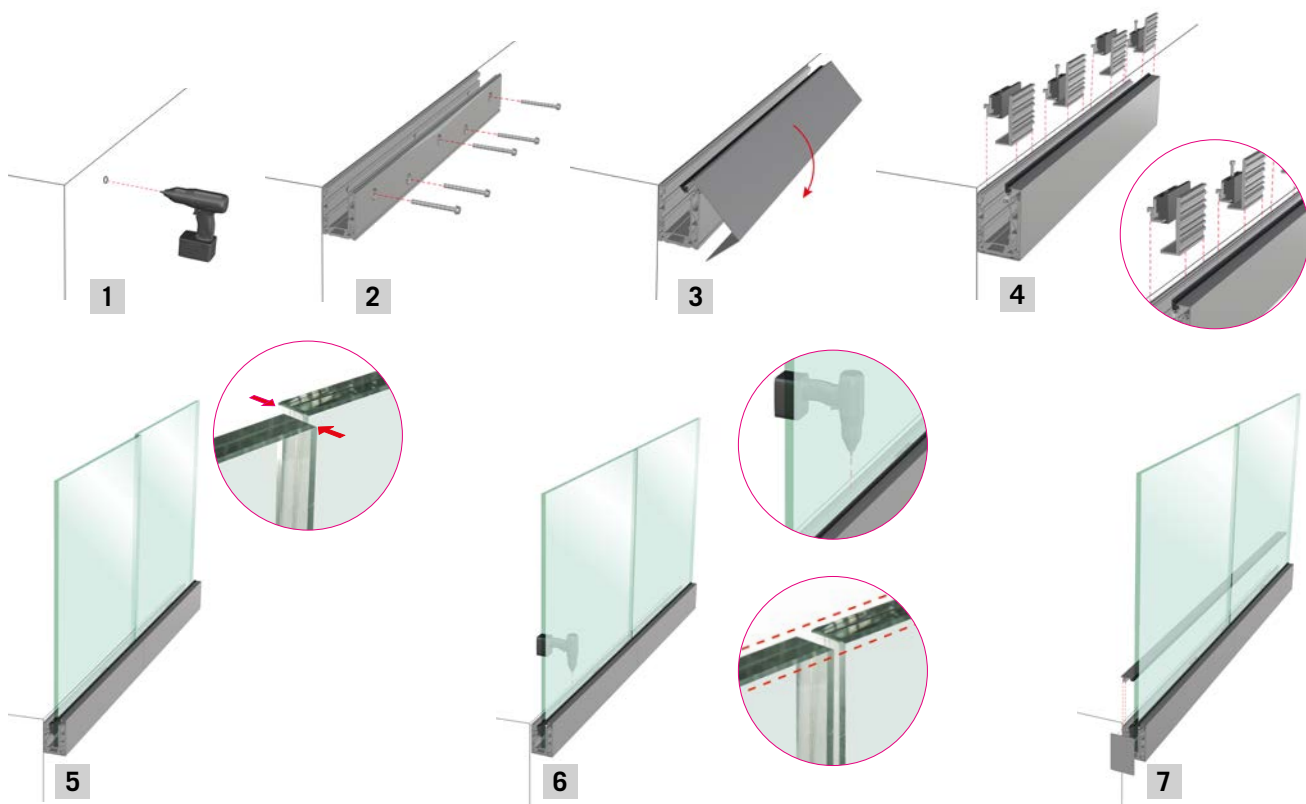
WALL ANCHORING INSTALLATION GLASS U S (STRONG) SIDE

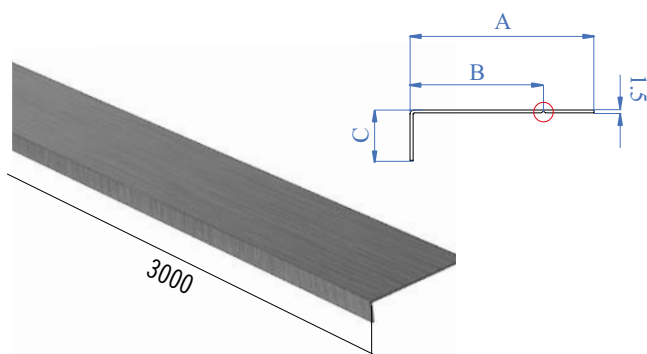


FLOOR ANCHORING INSTALLATION GLASS U P2 (PRECISION 2) TOP

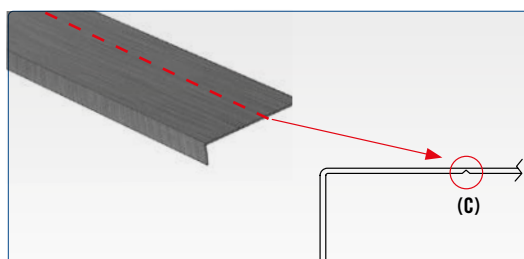


WALL ANCHORING INSTALLATION GLASS U P2 (PRECISION 2) SIDE

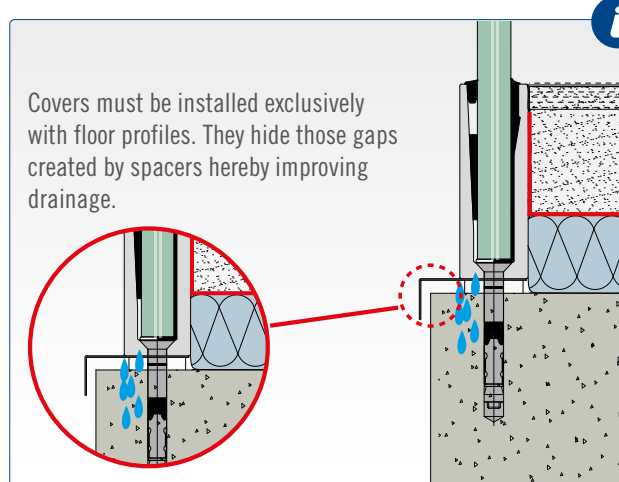




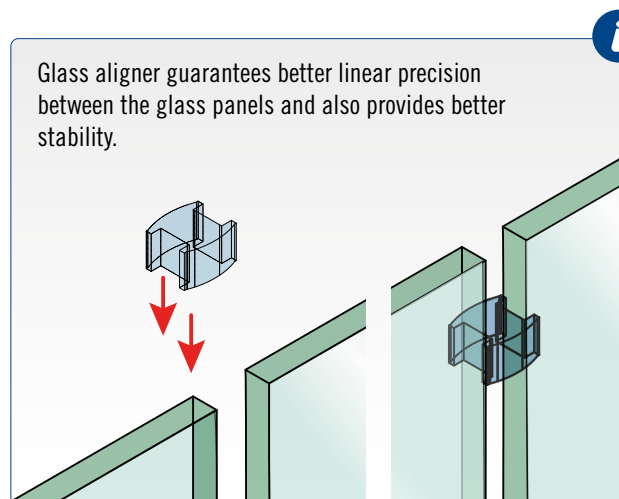
ALUMINIUM	A	B	C
E1800355	91mm	66mm	25mm

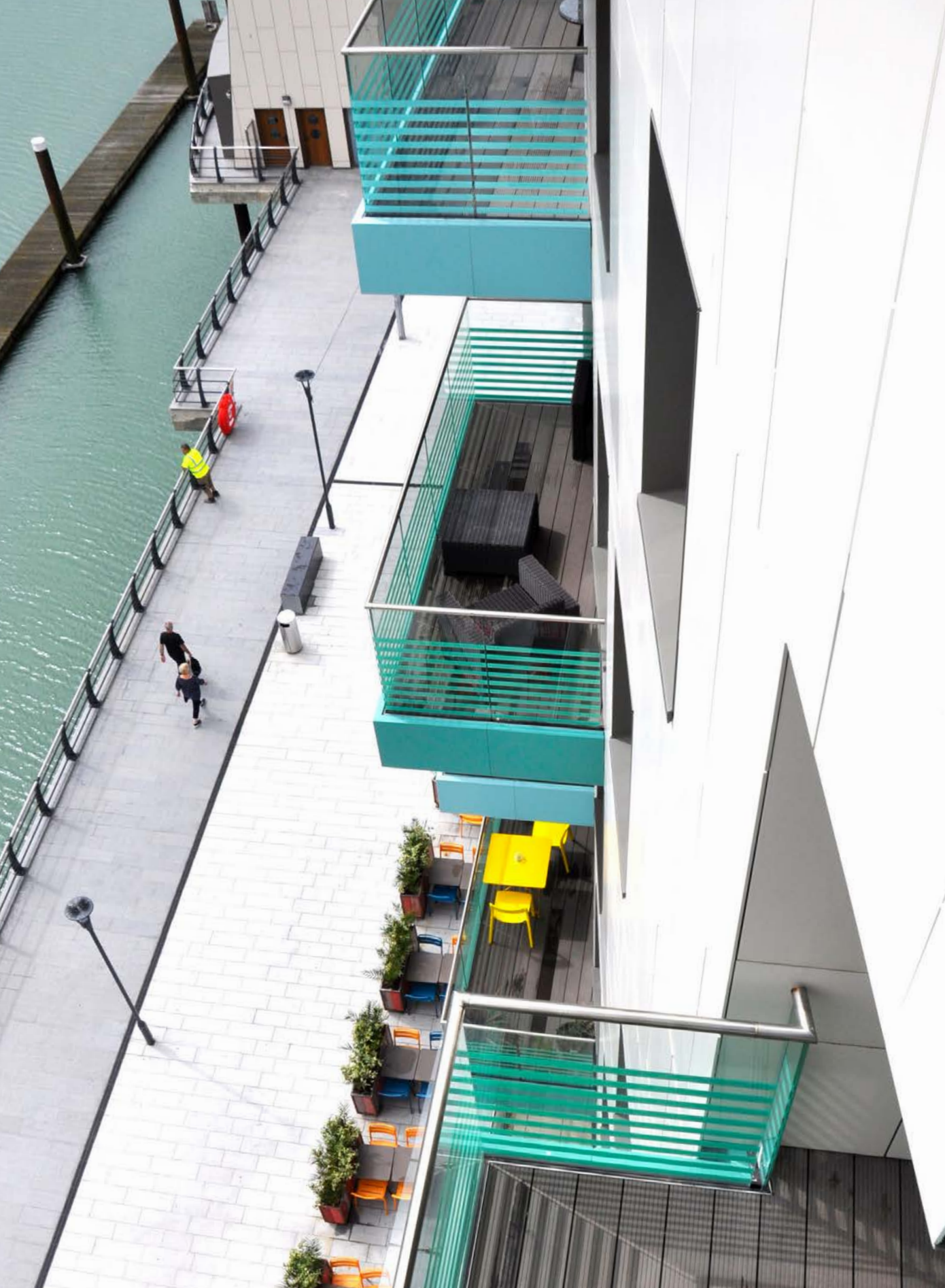


- 1 - The standard cover can be used with profiles E1800120 and E1800170.
 2 - With profile E1800130, the cover must be cut following outline (C).



PLASTIC	GLASS THICKNESS
E00992	16.76 - 17.52mm
E00993	20.76 - 21.52mm





02 PROFILE SYSTEM

SPEEDYRAIL	40 - 41
EVOLUTION	42 - 43
ROUND	44
CUBE	45
COVER FITTINGS FOR SLOTTED TUBE	46 - 47
ESSENTIAL	48
RUBBER GASKET	49
WOODEN PROFILES FOR HANDRAILS	50

02 PROFILE SYSTEM



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



ANTI-CLIMB PRODUCT

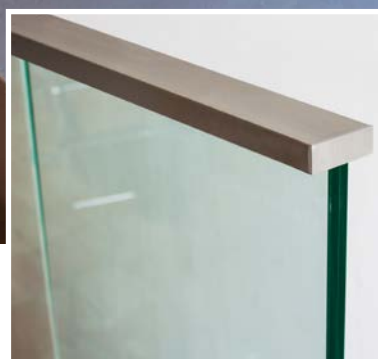
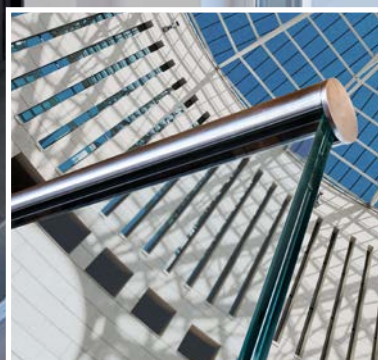
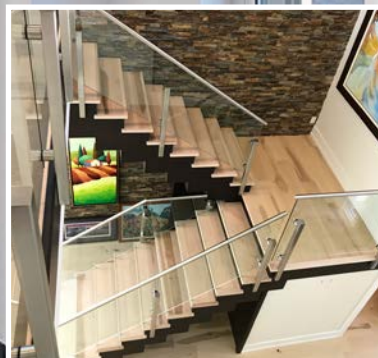
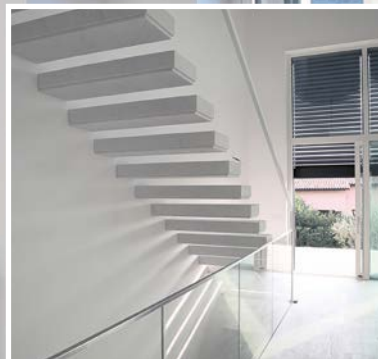


SUPER STRONG, HIGH RESISTANT PRODUCT



The Profile System covers a range of options to meet the needs of many different applications and includes Evolution, Speedyrail, Round, Slotted Tube, Essential and Slotted Wood Handrail. As you would expect from the name, for those installations where speed is particularly important, Speedyrail can offer typical savings of over an hour on a run of 100 metres of handrail.

With a range of metal profiles, as well as a wood finish option which offers a variety of different wood profiles including natural and beech, you can be sure there is a system to suit any given environment.



SPEEDYRAIL



15 seconds to install one metre of handrail

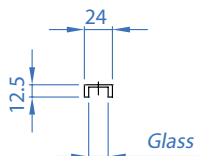
25 kg per metre resistance

TIME IS MONEY!!

Traditional fixing systems take up to **56** seconds per metre for installation.

With SPEEDYRAIL you can save up to **41** seconds per metre.

On 100 metres of handrail you save **68** minutes.



ABS	GLASS	KIT
E1991010	16.76mm	10 pieces
E1991020	17.52mm	10 pieces
E1991030	21.52mm	10 pieces

GASKETS SUITABLE FOR THE FOLLOWING PROFILES



VALID INSTALLATION ON GLASS WITH TOLERANCE + 0.1mm

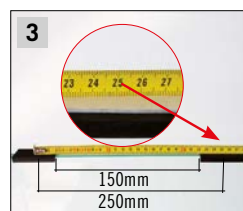
25kg Tear resistance



Clean the glass surface with acetone or isopropyl alcohol. The recommended action is always left to right or similar.



Place the ABS support on the glass slide.



Fit ABS supports at every 250mm.



Fit the handrail.

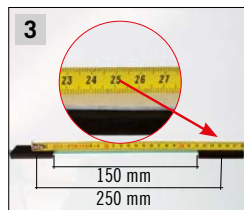
80kg Tear resistance



Clean the glass surface with acetone or isopropyl alcohol. The recommended action is always left to right or similar.



Fit the ABS supports using the double-sided tape E91904. Press the tape to activate the glue.



Fit ABS supports at every 250mm.



Fit the handrail.

140kg Tear resistance



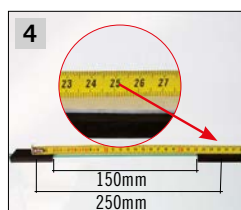
Clean the glass surface with acetone or isopropyl alcohol. The recommended action is always left to right or similar.



Lay the primer E91903 (using a single stroke of the brush).



Fit the ABS supports using the double-sided tape E91904. Press the tape to activate the glue.



Fit ABS supports at every 250mm.



Fit the handrail.

210kg Tear resistance



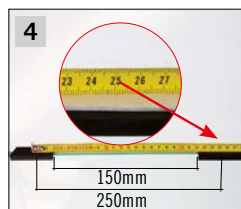
Clean the glass surface with acetone or isopropyl alcohol. The recommended action is always left to right or similar.



Lay the primer E91903 (using a single stroke of the brush).



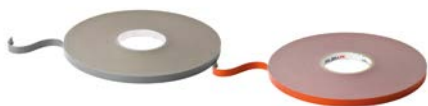
Fit the ABS supports using the double-sided tape E91905. Press the tape to activate the glue.



Fit ABS supports at every 250mm.



Fit the handrail.



BI-ADHESIVE	DESCRIPTION
E91904	Bi-adhesive STRONG
E91905	Bi-adhesive SUPER STRONG

PRIMER	DESCRIPTION	QUANTITY
E91903	Primer	250ml



PRESS THE DOUBLE-SIDED ADHESIVE TAPE WITH A ROLLER, OR SIMILAR, TO ACTIVATE THE GLUE

EVOLUTION

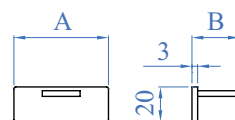
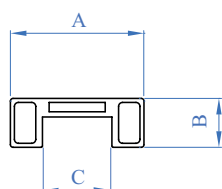
02 PROFILE SYSTEM - EVOLUTION



The main features of this system are the rectangular shape and its thickness of just 20mm.

These features are unique and have been made possible thanks to the use of our Speedyrail fastening system.

Ideal for those who are looking for a modern and contemporary solution.



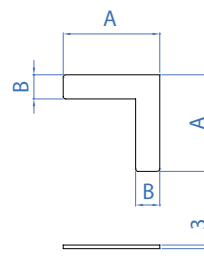
ALUMINIUM	A	LENGTH	B	C
E10003227	48mm	6000mm	20mm	24mm

ALUMINIUM	A	B
E1100140	48mm	25mm

THE PROFILE E10003227 AND GASKET ARE COMPONENTS FROM OUR **SPEEDYRAIL** FIXING SYSTEM, SEE PAGES 40-41



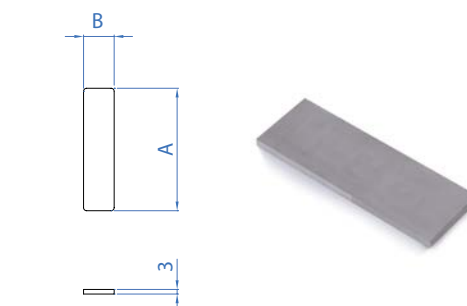
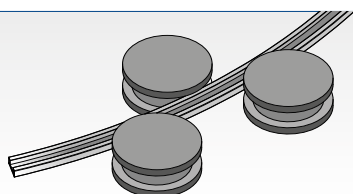
SPEEDYRAIL



ALUMINIUM	A	B
E1100160	80mm	20mm

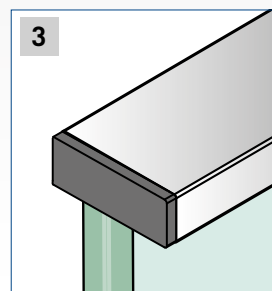
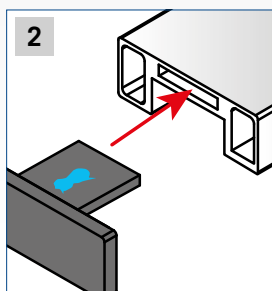
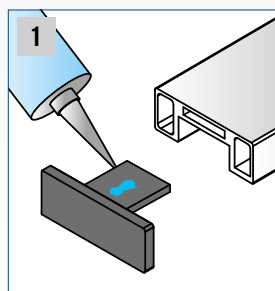
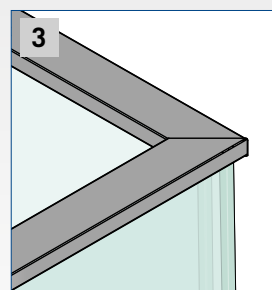
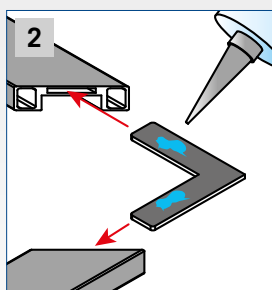
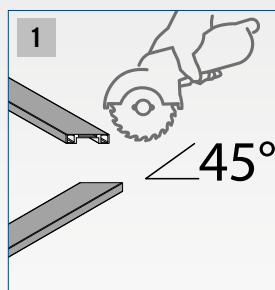


ROLLING FACILITY AVAILABLE.

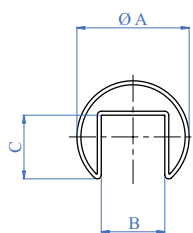


ALUMINIUM	A	B
E1100170	80mm	20mm

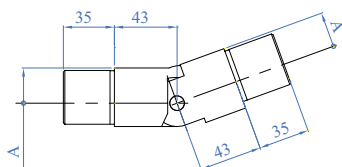
INSTALLATION OF THE HANDRAIL



PROFILE SYSTEM - ROUND

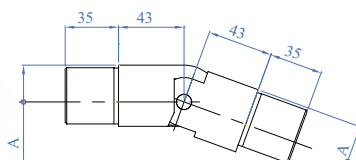


AISI304	AISI316	TUBE A	LENGTH	B	C
Satin Finish					
E1000424	E1100424	Ø 42.4 x 1.5mm	6000mm	24mm	24mm
E1000483	E1100483	Ø 48.3 x 1.5mm	6000mm	26mm	30mm
Mirror Polished					
-	X1100424	Ø 42.4 x 1.5mm	6000mm	24mm	24mm



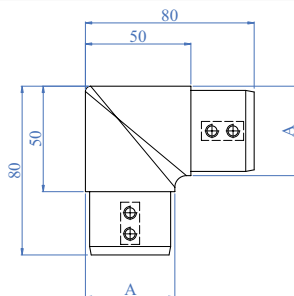
Upward pivoting connector, 25-55°

AISI316	TUBE A
E1510100	Ø 42.4 x 1.5mm
E1510110	Ø 48.3 x 1.5mm

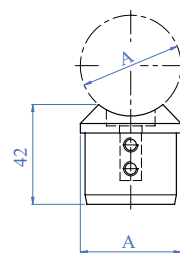


Downward pivoting connector, 25-55°

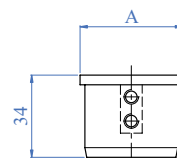
AISI316	TUBE A
E1520100	Ø 42.4 x 1.5mm
E1520110	Ø 48.3 x 1.5mm



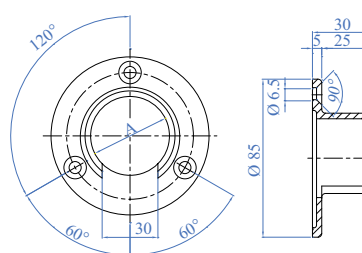
AISI304	AISI316	TUBE A
E1400200	E1400100	Ø 42.4 x 1.5mm
-	E1400110	Ø 48.3 x 1.5mm



AISI316	TUBE A
E1300100	Ø 42.4 x 1.5mm

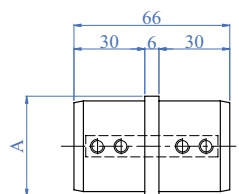


AISI304	AISI316	TUBE A
E1100200	E1100100	Ø 42.4 x 1.5mm
-	E1100110	Ø 48.3 x 1.5mm

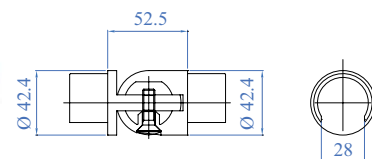


WALL ANCHORAGE

AISI316	TUBE A
E1110100	Ø 42.4 x 1.5mm
E1110110	Ø 48.3 x 1.5mm



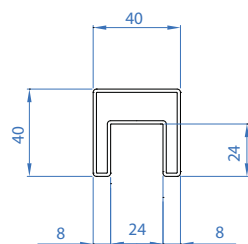
AISI304	AISI316	TUBE A
E1200200	E1200100	Ø 42.4 x 1.5mm
-	E1200110	Ø 48.3 x 1.5mm



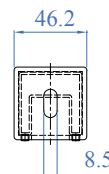
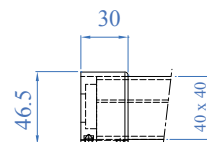
Articulated connector for slotted tube

AISI304	AISI316	TUBE A
E1520300	E1520310	Ø 42.4 x 1.5mm

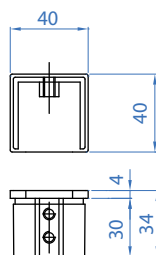
PROFILE SYSTEM - CUBE



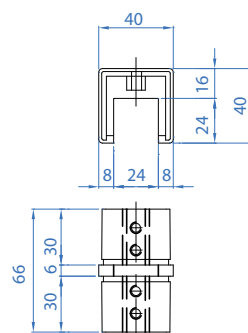
AISI316	FOR TUBE	LENGTH
E10040X40	40 x 40 x 1.5mm	6000mm



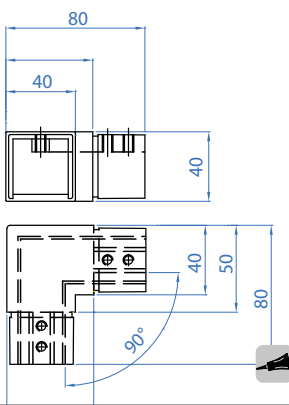
AISI316	FOR TUBE
E4741	40 x 40 x 1.5mm



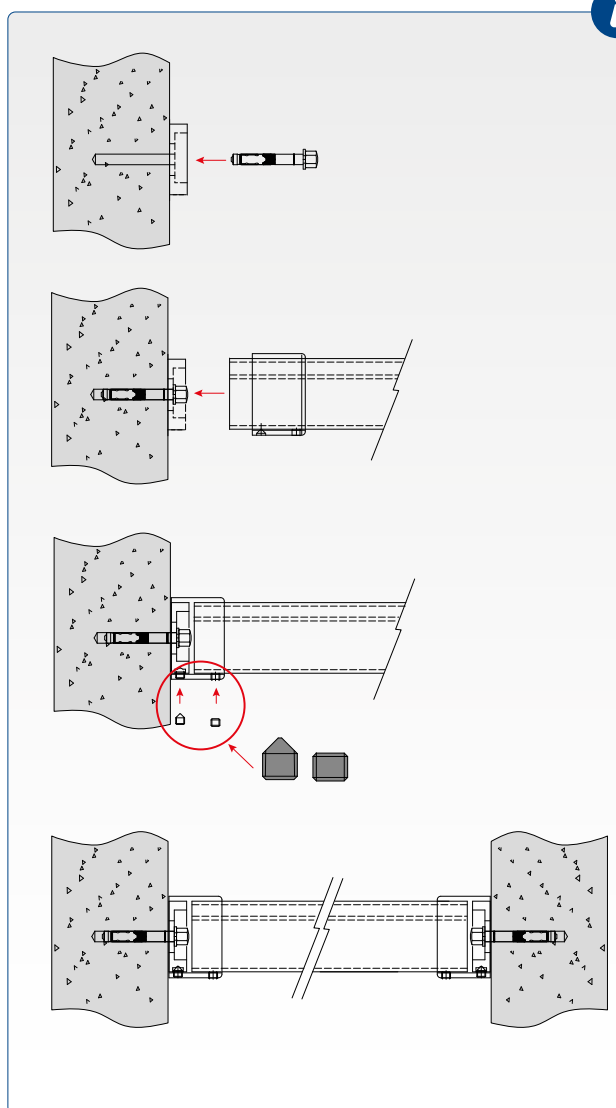
AISI316	FOR TUBE
E1100150	40 x 40 x 1.5mm



AISI316	FOR TUBE
E1200140	40 x 40 x 1.5mm



AISI316	FOR TUBE
E1400120	40 x 40 x 1.5mm



PROFILE SYSTEM - COVER FITTINGS FOR SLOTTED TUBE

**Hides the cutting defects on tube****COVERS THE DEFECTS**

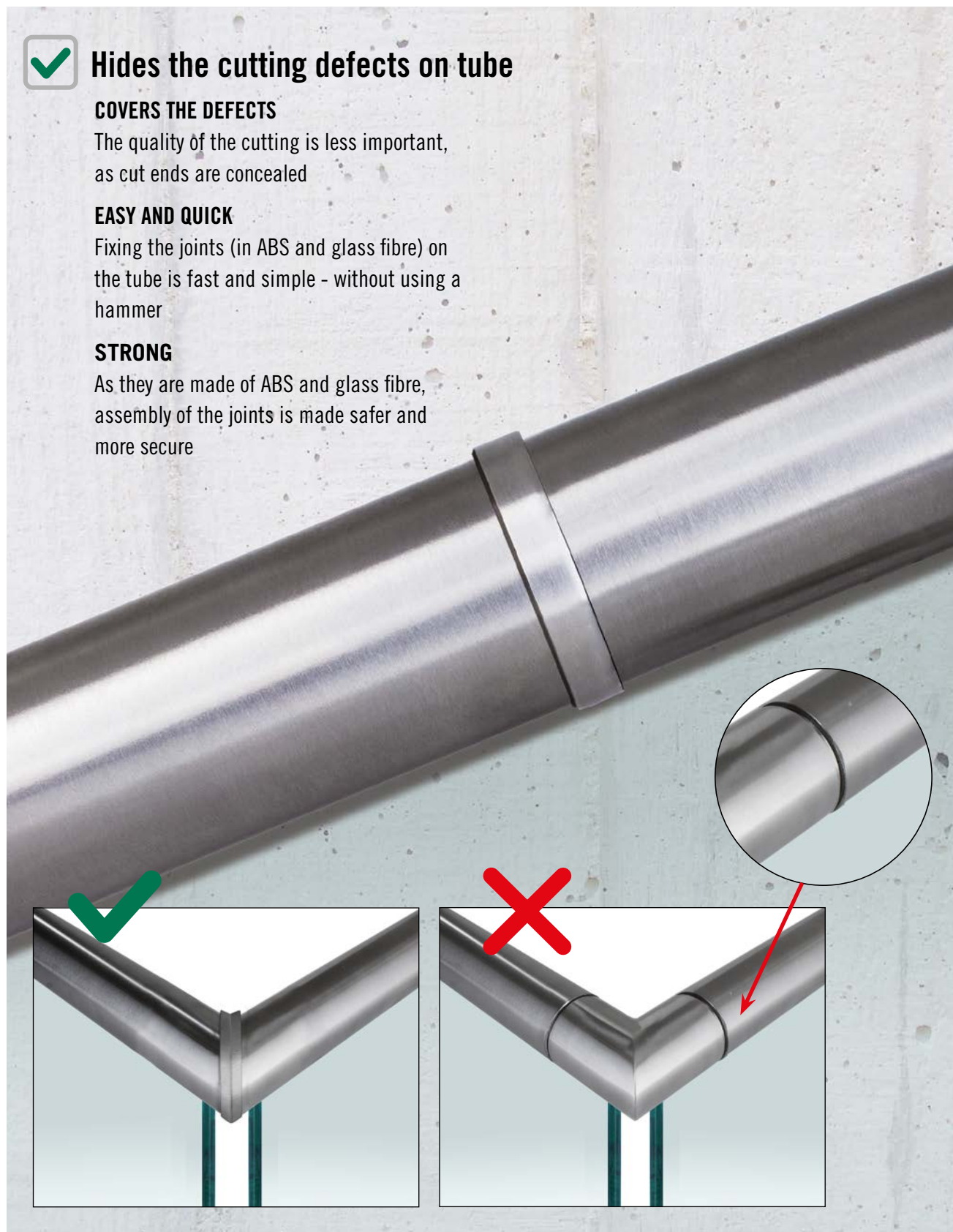
The quality of the cutting is less important, as cut ends are concealed

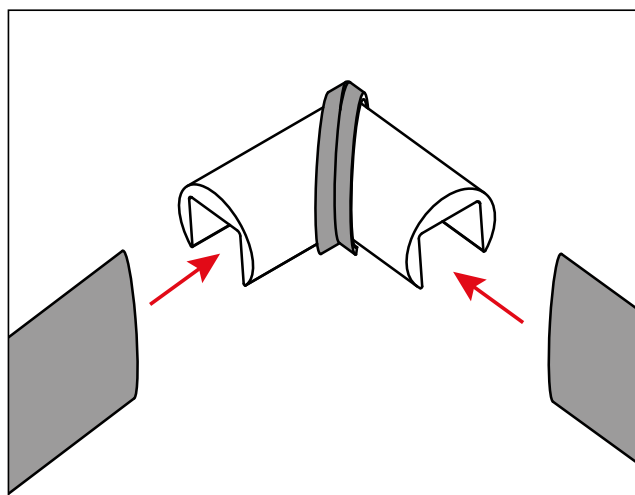
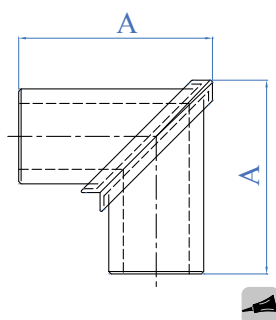
EASY AND QUICK

Fixing the joints (in ABS and glass fibre) on the tube is fast and simple - without using a hammer

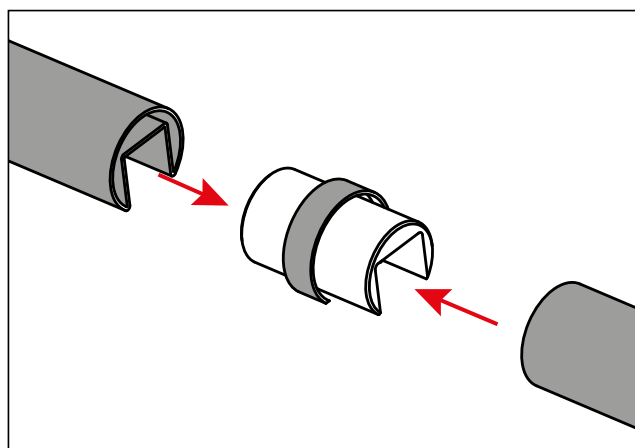
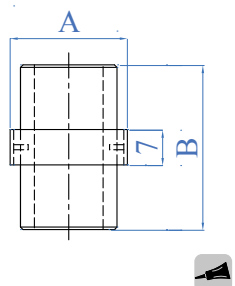
STRONG

As they are made of ABS and glass fibre, assembly of the joints is made safer and more secure





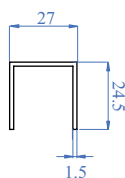
AISI316	FOR TUBE A	A
E1200400	Ø 42.4 x 1.5mm	80mm



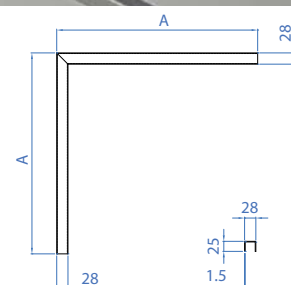
AISI316	FOR TUBE A	A	B
E1200300	Ø 42.4 x 1.5mm	45mm	65mm



PROFILE SYSTEM - ESSENTIAL

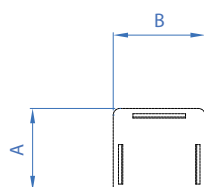


90° bend

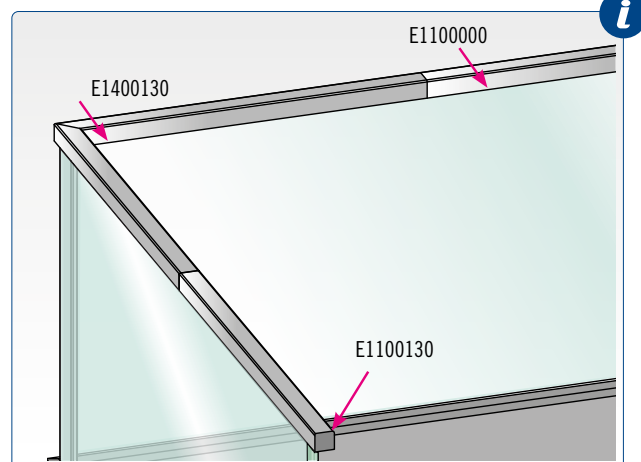


AISI316	PROFILE	LENGTH
E1100000	27 x 24.5 x 1.5mm	3000mm

AISI316	DIMENSIONS A
E1400130	500 x 500 x 1.5mm



AISI316	A	B	C
E1100130	25mm	28mm	20mm



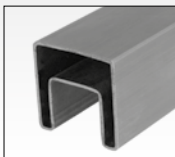
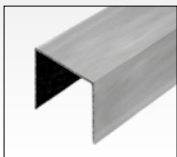
PROFILE SYSTEM - RUBBER GASKET



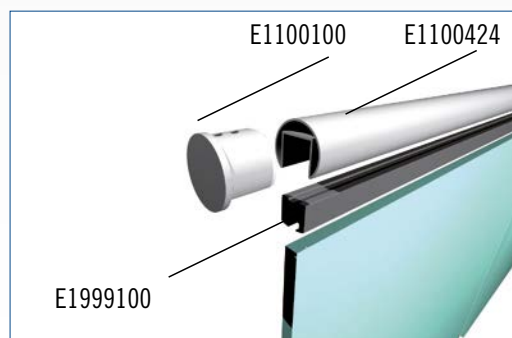
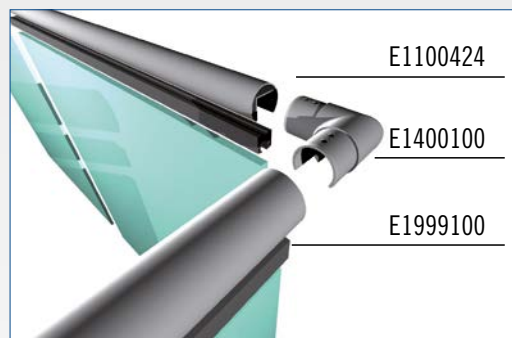
Also available in lengths of 6 metres

RUBBER	FOR TUBE	GLASS	COIL LENGTH
E1999100	Ø 42.4mm	8 - 10.76mm	3000mm
E1999200	Ø 42.4mm	12 - 16.76mm	3000mm
E1999300	Ø 42.4mm	16.76 - 18mm	3000mm
E1999360	Ø 42.4mm	19mm	3000mm
E1999370	Ø 42.4mm	20 - 21.52mm	3000mm
E1999400	Ø 48.3mm	8 - 12.76mm	3000mm
E1999500	Ø 48.3mm	13 - 17.52mm	3000mm
E1999650	Ø 48.3mm	18 - 21.52mm	3000mm

RUBBER GASKETS SUITABLE FOR THE FOLLOWING PROFILES



EASY TO INSTALL

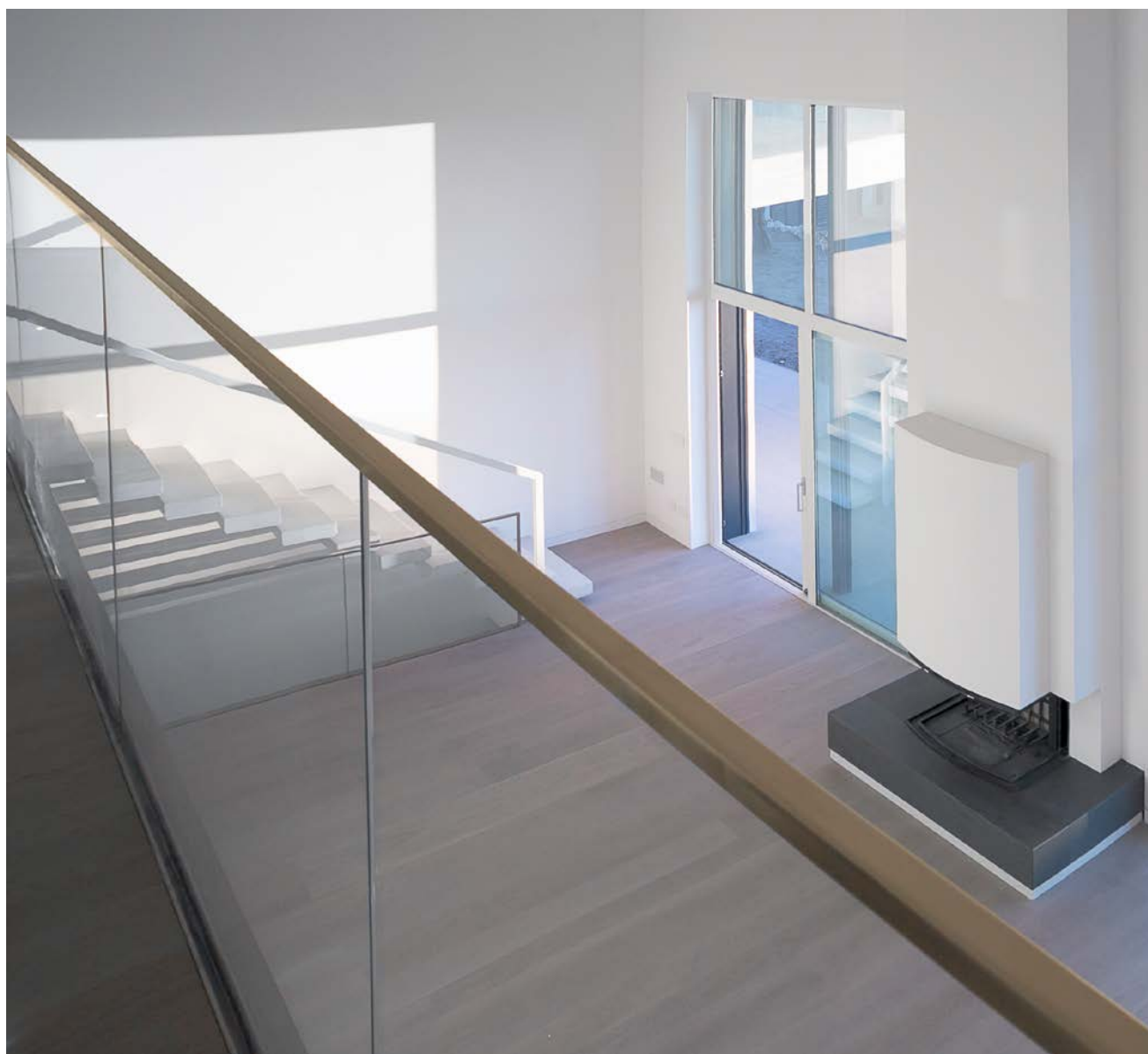


PROFILE SYSTEM - WOODEN PROFILES FOR HANDRAILS



WOOD	LENGTH	COLOUR
EW1100001	2m	Natural

02 PROFILE SYSTEM - WOODEN PROFILES FOR HANDRAILS





FOLLOW US ON
LinkedIn

03 CHAMELEON GLASS SYSTEM

FIXING POINTS	54 - 55
CUSTOMISABLE COVERS	56
GLASS CLAMP FOR GROUND ANCHORAGE	57

03 CHAMELEON GLASS SYSTEM



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



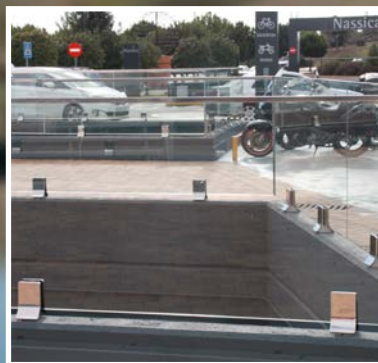
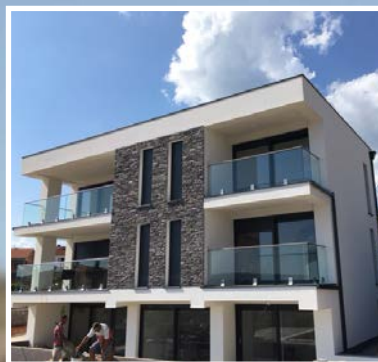
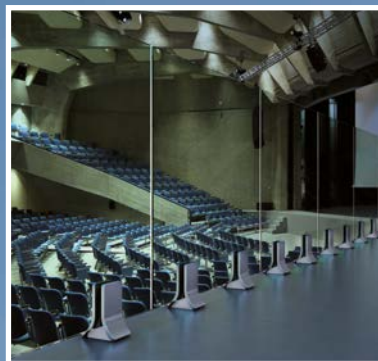
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



As its name suggests, Chameleon is characterised by its adaptability to blend in with different environments. Available in the full range of RAL colours, special finishes and with the option of interchangeable covers (in different shapes and materials), whatever the application Chameleon can complement its surroundings. Thanks to its high resistance, this versatile, customisable glass clamp is ideal for installations in public places.



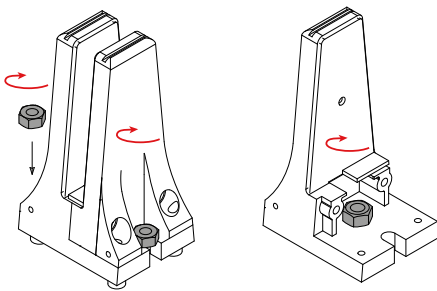
03 CHAMELEON GLASS SYSTEM

CHAMELEON^{EVO}

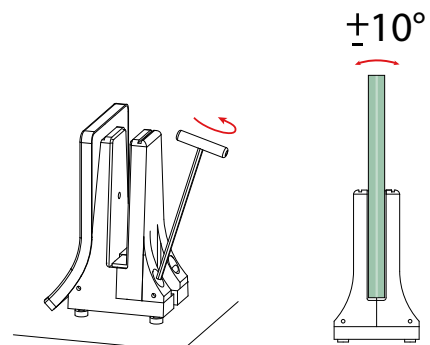
GLASS SYSTEM



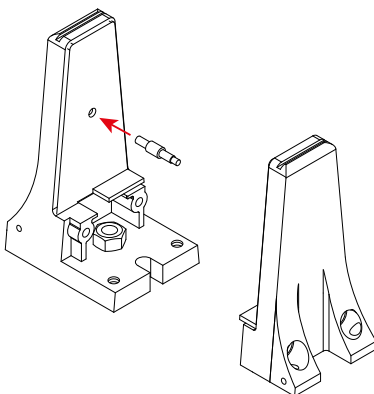
- Anchorage possible on a single central point or on two points



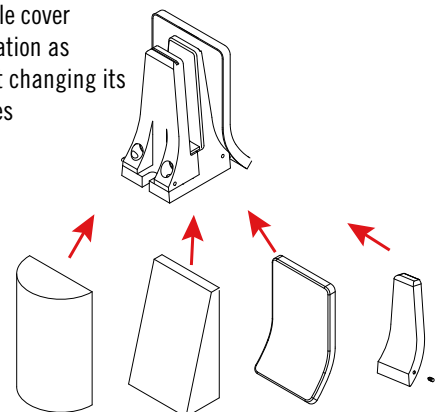
- Adjustable feet from above for the levelling of the railing

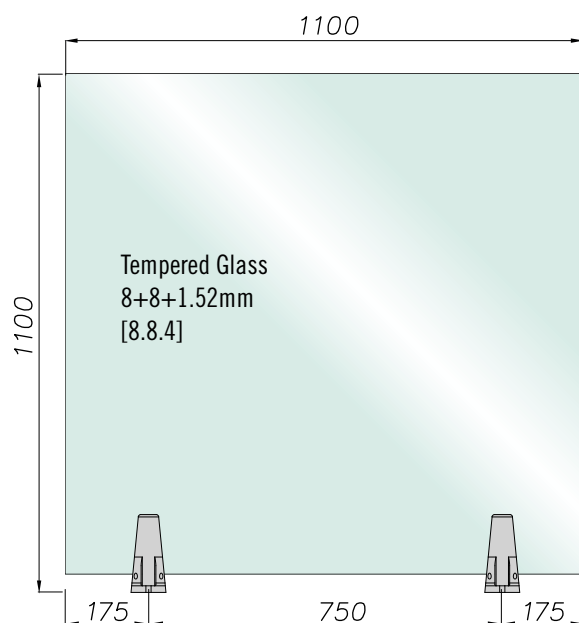
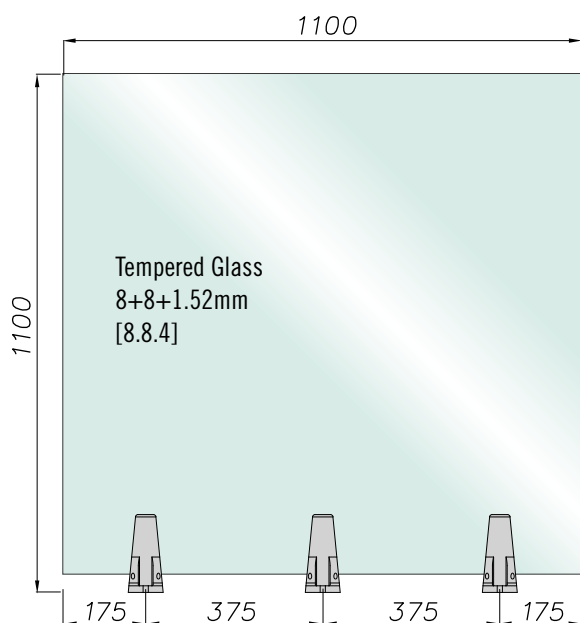


- Safety pin for greater stability

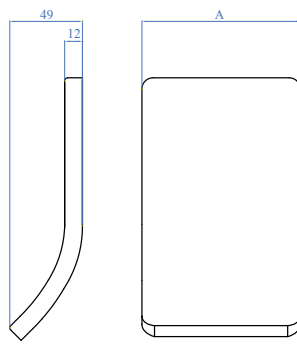
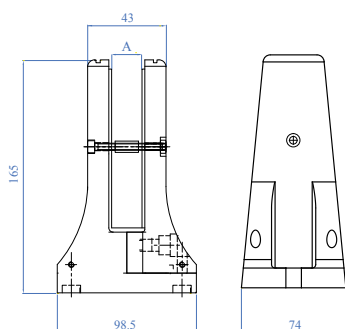


- Interchangeable cover allows customisation as required, without changing its technical features



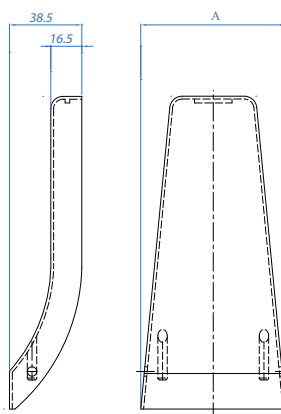
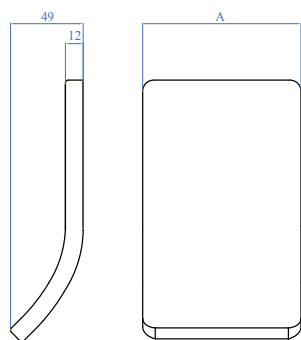


With locking pin



ZAMAC	FINISH	GLASS THICKNESS A
J2000360	Matt	12.76mm
J2000370	Matt	13.52mm
J2000380	Matt	17.52mm

AISI316	FINISH	DIMENSION A
E2000350	Satin	107mm



AISI316	FINISH	DIMENSION A
X2000350	Mirror polished	107mm

AISI304	AISI316	FINISH	DIMENSION A
E2000360	E2000360316	Satin finish in casting	77mm

100% CUSTOMISABLE

**All Chameleon covers can be fully customised
Choose your colour, the shape and the material**

Colours

Chameleon covers can be powder coated. Powder coating is a covering procedure for metallic surfaces, achieved with an organic film; it is carried out for decorative purposes and protection against corrosion and strong agents. All colours of the RAL colour chart are possible and, in addition to our team of expert varnishers, we can also provide some special finishes.

Shapes and Materials

Chameleon covers can be created in different shapes and to customers' specifications. Furthermore, customers can specify the material of the covers (such as wood or marble) and thereby achieve a railing design suitable for any architectural design or environment.

Below are some of the special finishes



Micaceous Grey



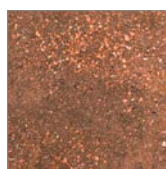
Matt black



Verdigris effect



Infinite white



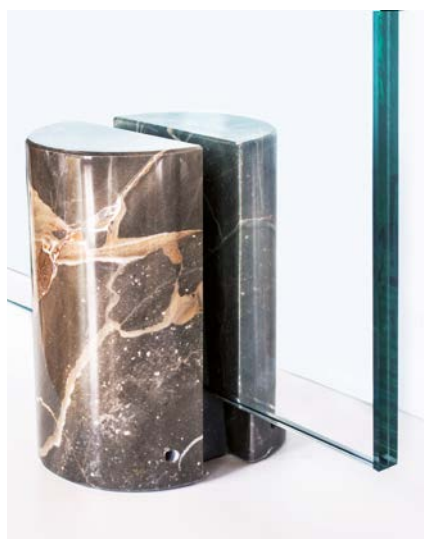
Corten effect



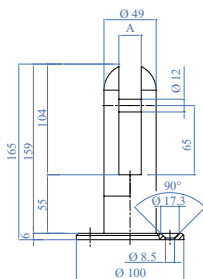
Acid-etched effect



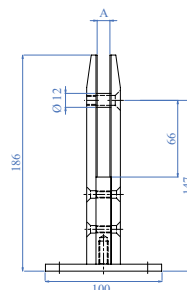
All colours on RAL chart



GLASS CLAMP FOR GROUND ANCHORAGE



2 pieces: anchor flange Ø 100mm and 3 countersunk holes and 165mm glass clamp

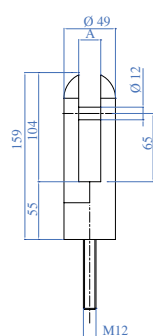


2 pieces: anchor flange 100mm sq. with 4 holes and 186mm glass clamp

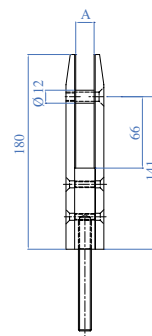


AISI304	AISI316	GLASS THICKNESS A
E2000500	E2000600	12 to 17.52mm

AISI304	AISI316	GLASS THICKNESS A
E2100500	E2100600	12 to 17.52mm



2 pieces: glass support 159 mm high and M12 threaded bar x 120mm long



2 pieces: glass support 180 mm high and M12 threaded bar x 120mm long



AISI304	AISI316	GLASS THICKNESS A
E2000100	E2000200	12 to 17.52mm

AISI304	AISI316	GLASS THICKNESS A
E2100100	E2100200	12 to 17.52mm



03 GLASS CLAMP FOR GROUND ANCHORAGE

NEW

04 CHAMELEON POST GLASS SYSTEM

CHAMELEON POST GLASS SYSTEM

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04 CHAMELEON POST GLASS SYSTEM



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



ANTI-CLIMB PRODUCT

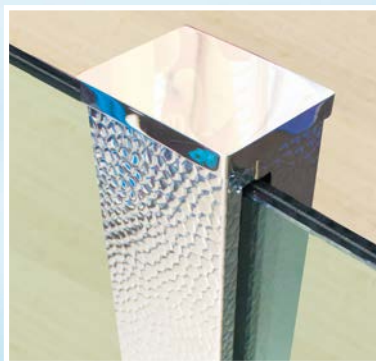


SUPER STRONG, HIGH RESISTANT PRODUCT

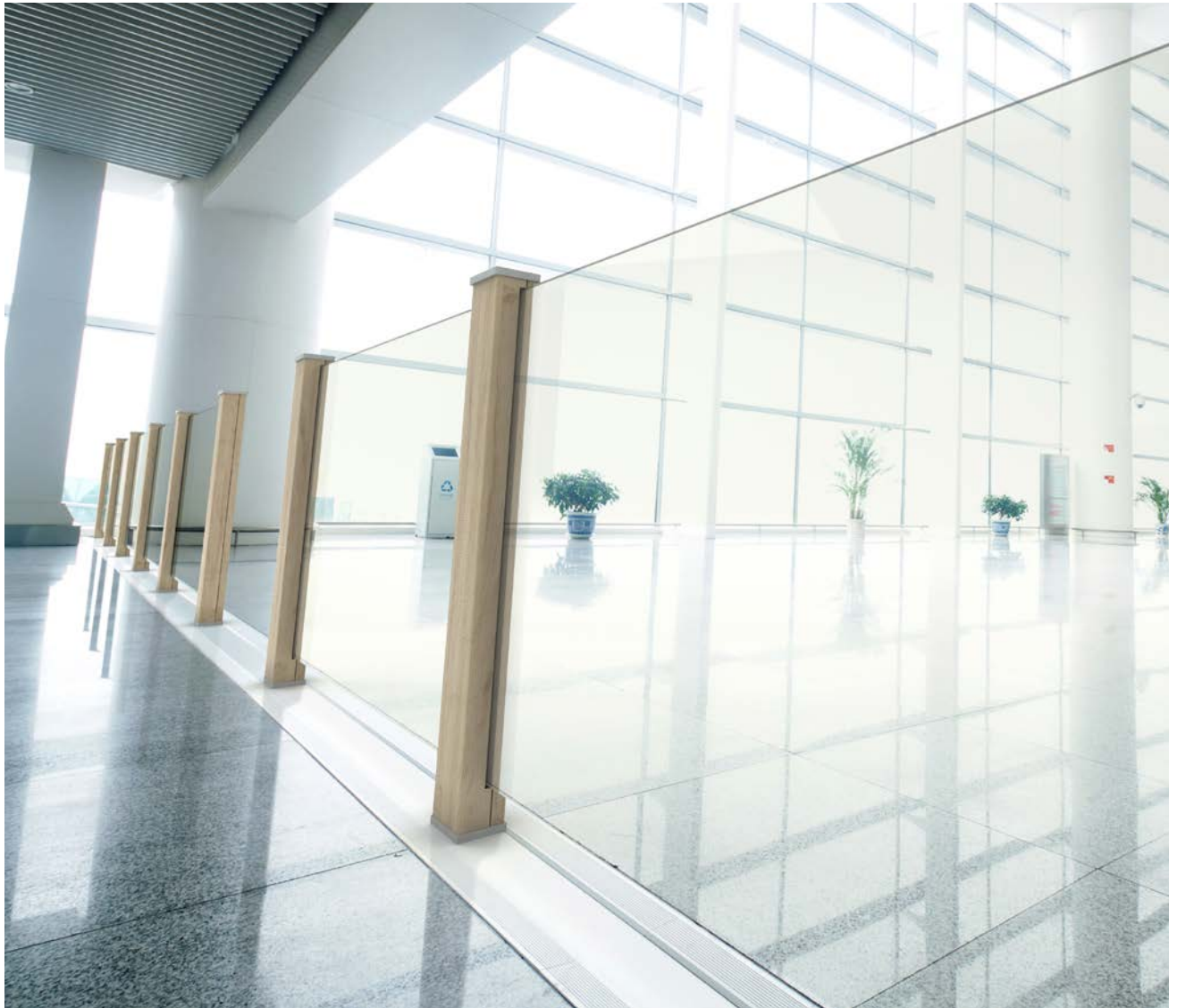


The Chameleon Post Glass system meets a wide range of architectural requirements, with a design focused around glass panels which fit into stainless steel columns. This ensures a balustrade system which is characterised by its strength and durability.

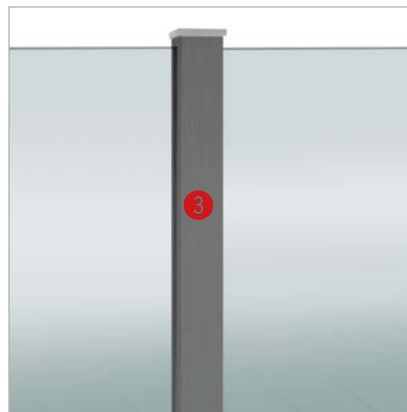
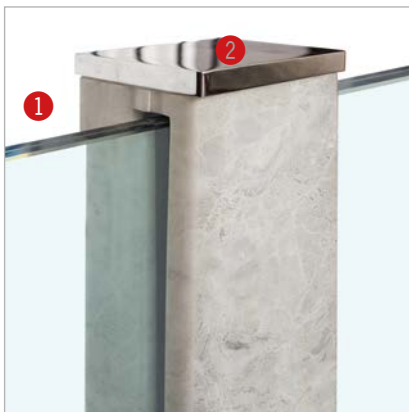
The glass panels can be customised with tints, colours and shapes, while different finishes are also available for the posts. The excellent performance properties makes Chameleon an ideal option for both private and public applications.



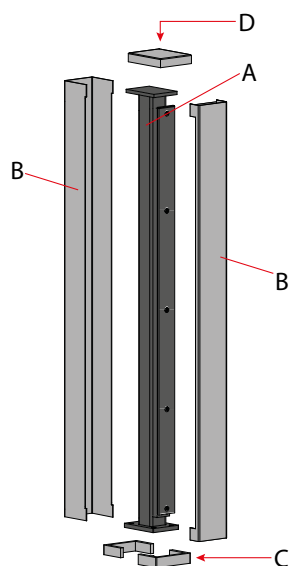
CHAMELEON POST GLASS SYSTEM



04 CHAMELEON POST GLASS SYSTEM

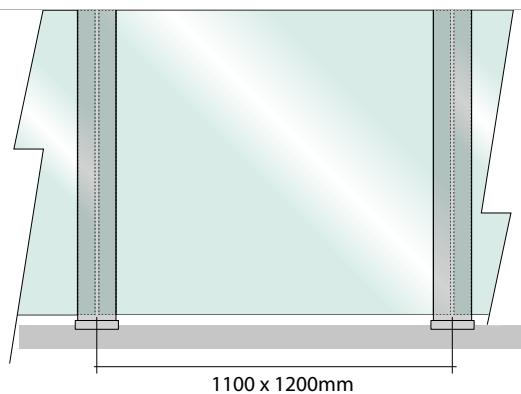


- ① Simplified installation of glass infill thanks to the fixing system hidden within the structure.
- ② Base and top closures accommodate and incorporate custom covers.
- ③ If unspecified, the Chameleon posts are supplied in the mild steel raw finish version.



COMPONENTS INCLUDED IN THE KIT

- A) 1 Galvanised mild steel structural post
- B) 2 Customisable covers in material and finishing
- C) 1 Lower closing cap in stainless steel mirror polished
- D) 1 Upper closing cap in mirror polished stainless steel



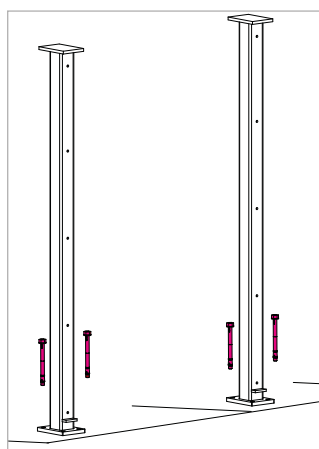
1100 x 1200mm

1.5 kN

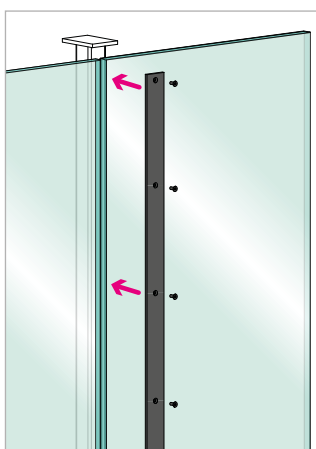


TEST PASSED

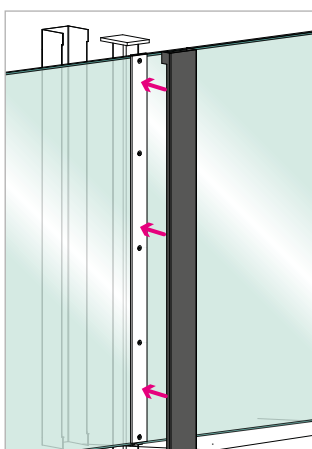
Configurations tested with
safety pin for design load
1.5 kN/m



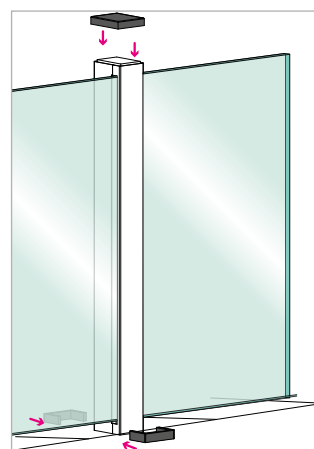
- Mount the structural load-bearing element at the desired pitch.



- Apply the glass and secure with the appropriate flat fixing brackets with gaskets.



- Apply the covers of the chosen material and finish and attach to the previously mounted structure.



- Apply the upper and lower caps.



- 1 Example of a Corian cover.

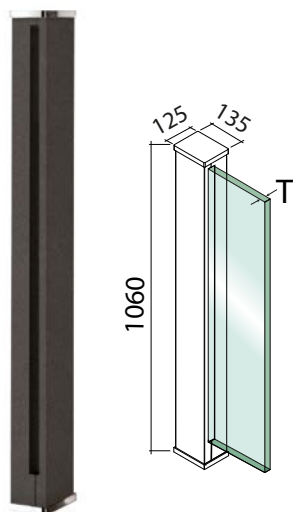


- 2 Customisation in dark beechwood.



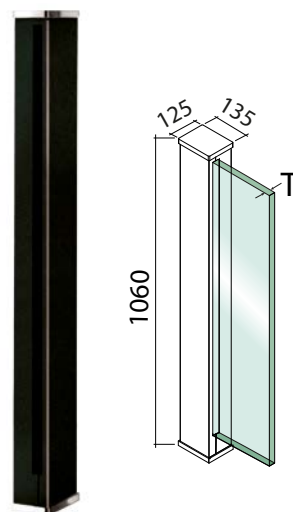
- 3 Copper green acid-etched steel cover. Also available in brass, copper, corten or other metals.

CHAMELEON POST



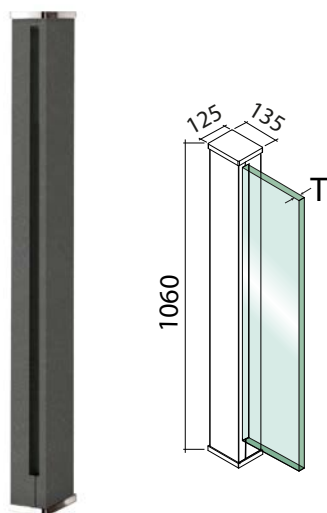
T = from 10 to 17.52mm

COVER IRON ZINC	COVER FINISH
I2000400	Raw



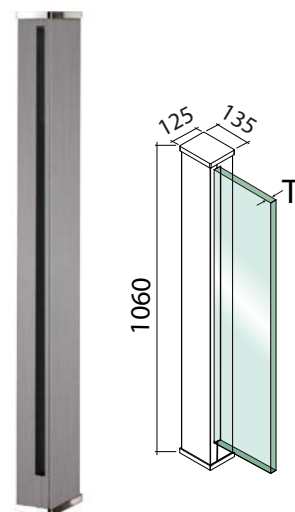
T = from 10 to 17.52mm

COVER IRON ZINC	COVER FINISH
V2000430	Matt Black RAL 9005



T = from 10 to 17.52mm

COVER IRON ZINC	COVER FINISH
V2000420	Iron RAL 7021



T = from 10 to 17.52mm

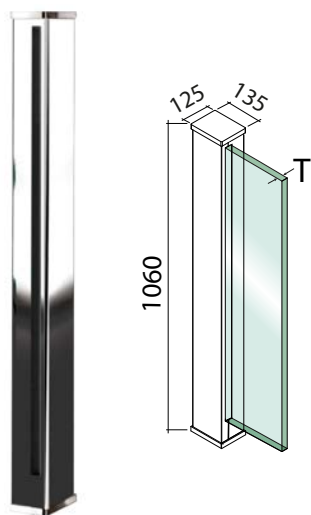
COVER AISI304	COVER AISI316	COVER FINISH
E2000440	E2000440316	Satin finish



The Chameleon Post kits consist of:
end caps, supporting structure and cover.

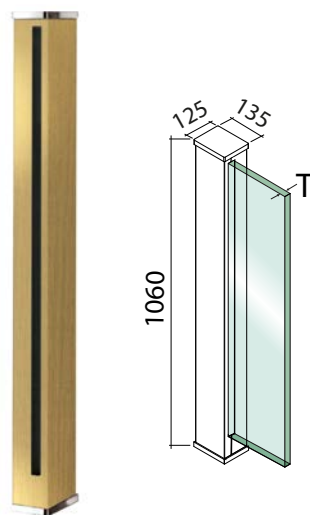
If unspecified, the Chameleon Posts are supplied in the
mild steel raw finish version, along with AISI 304 mirror
polished accessories.

CHAMELEON POST



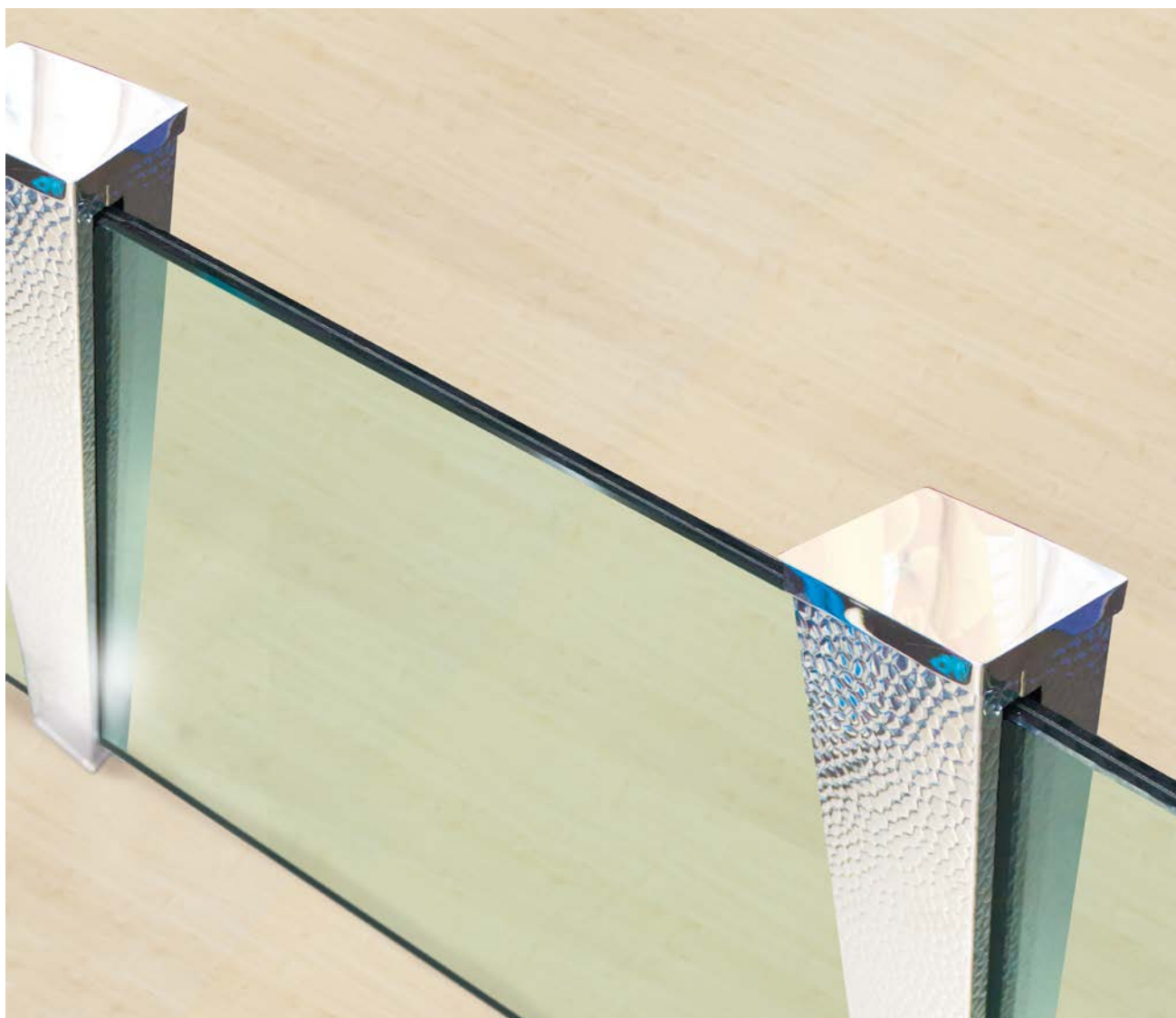
T = from 10 to 17.52mm

COVER AISI316	COVER FINISH
X2000440316	Mirror polished



T = from 10 to 17.52mm

COVER BRASS	COVER FINISH
E2000410	Satin brass



NEW

04 CHAMELEON POST GLASS SYSTEM

NEW

05 CLEAR VISTA FRENCH BALCONY

FRENCH BALCONY SYSTEM - CLEAR VISTA	66
REGULATIONS	67
APPLICATION 1 - MASONRY FITTING	68 - 69
APPLICATION 2 - WINDOW FRAME FITTING	70 - 71

05 CLEAR VISTA FRENCH BALCONY



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



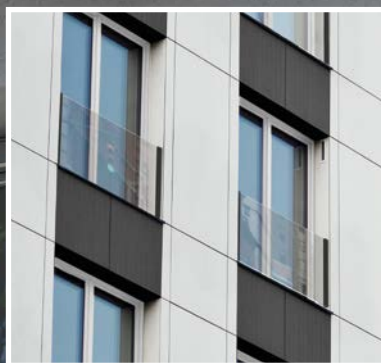
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



The Clear Vista French Balcony is designed to be in harmony with the environment and the surrounding built architecture. It ensures protection for the windows, without blocking the light, impeding the view or compromising safety.

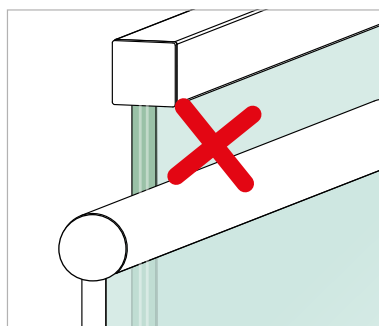
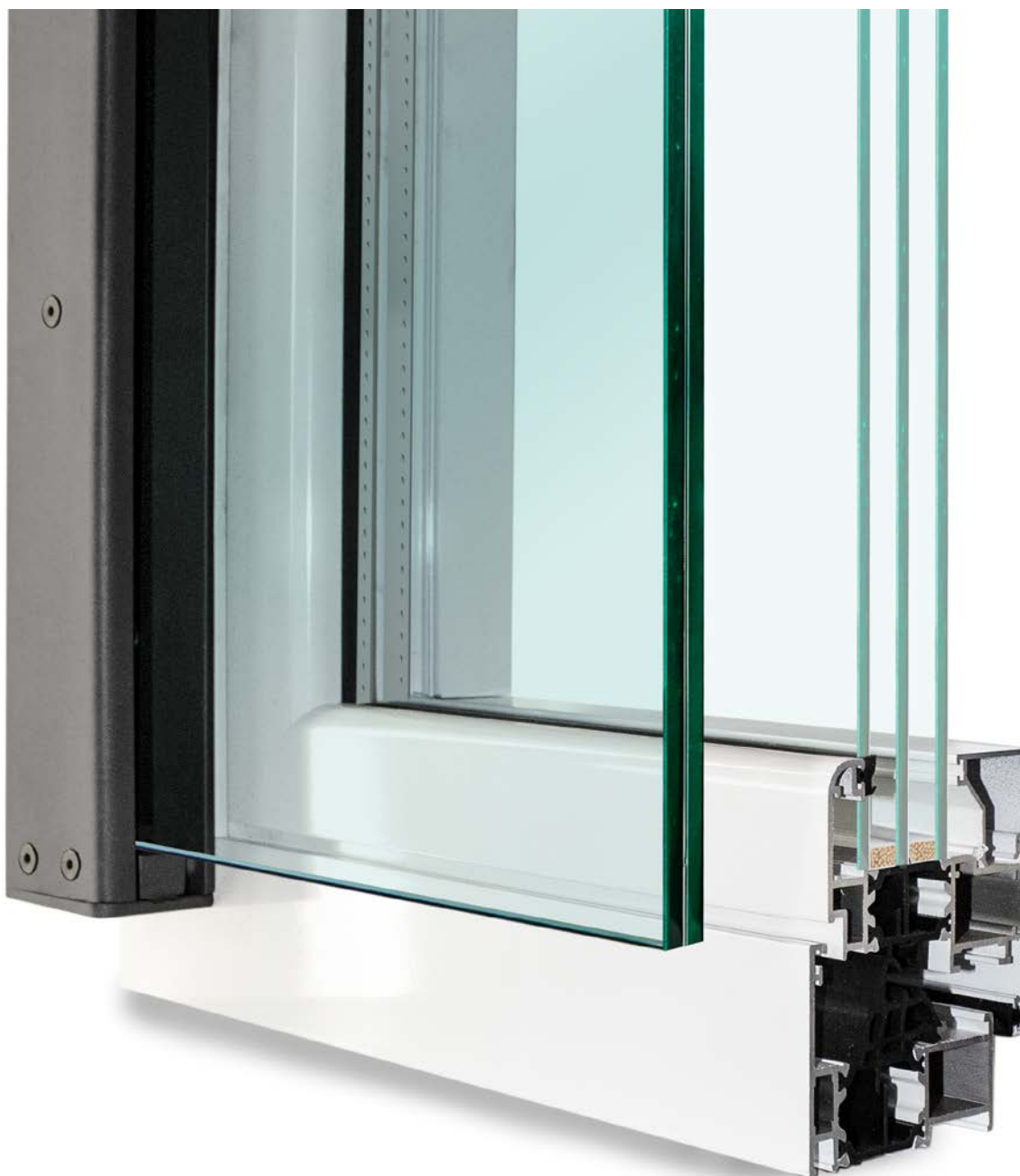


NEW

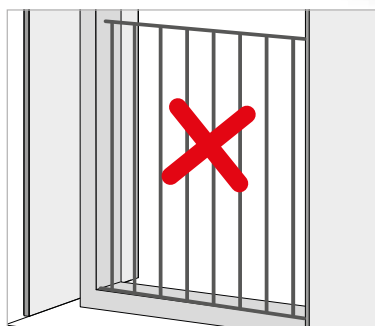
FRENCH BALCONY SYSTEM

CLEARVISTA

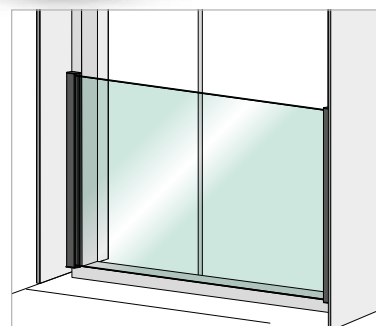
05 CLEAR VISTA FRENCH BALCONY



No need for handrails.



Unlike balconies with vertical rails, the view remains uninterrupted. The glass system's structure allows the Clear Vista system to ensure an unsurpassed level of transparency.

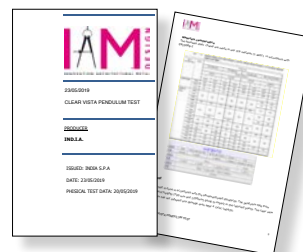


Tested up to 1800mm.

FRENCH BALCONY SYSTEM - CLEAR VISTA REGULATIONS



TEST CERTIFICATES AVAILABLE
ON REQUEST



TEST RESULTS

The test is done in accordance with the aforementioned standards. The pendulum falls from different heights (700mm and 1200mm) and impacts at the required points. The Clear Vista system suffered no damage, even after 4 consecutive impacts.

Type A

Numerous cracks appear forming separate fragments with sharp corners, some of which are typical of breakage of annealed glass.

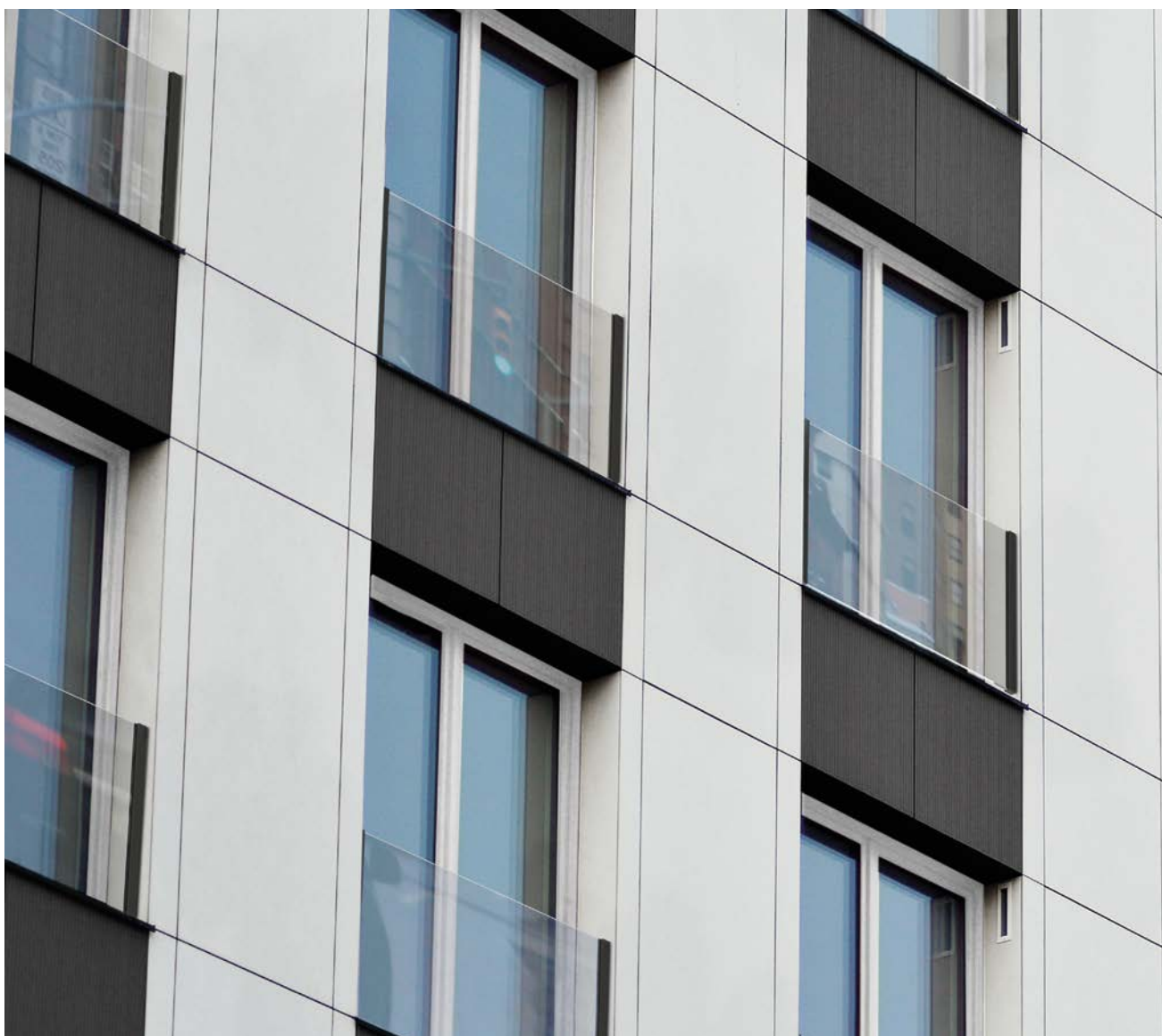
Type B

Numerous cracks appear but fragments remain united and not separate [typical breakage of laminated glass].

Type C

The test piece disintegrates, producing a high number of small particles which are relatively innocuous [breakage typical of tempered glass].

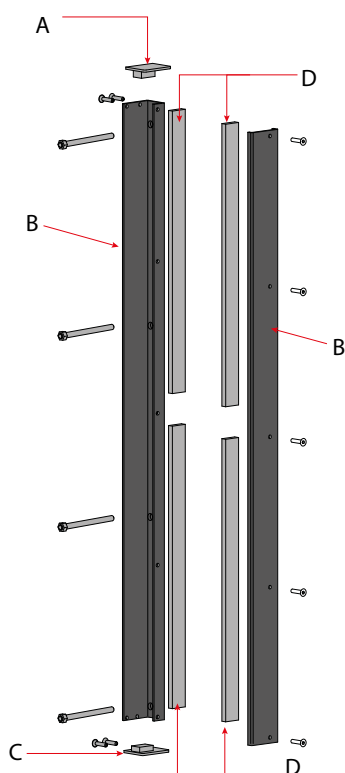
Height fall (mm)	Behaviour	Mode of failure
700	Break	
	YES	NO
		X
1200	Break	
	YES	NO
	X	
1B1 Classified	Nothing	
	Type A	
	Type B	X
	Type C	



NEW

05 CLEAR VISTA FRENCH BALCONY

CLEAR VISTA APPLICATION 1 - MASONRY FITTING



COMPONENTS INCLUDED IN THE KIT

- A)** 2 upper closures
- B)** 4 customisable profiles in materials and finishings required
- C)** 2 lower closures
- D)** 8 rubber strips to be applied on the profiles which will be in contact with the glass

Screws and dowels
(purchase separately)



Stainless steel AISI 316

AISI316	GLASS HEIGHT	PROFILE H
E2200700	900mm	930mm
E2200710	1000mm	1030mm
E2200720	1100mm	1130mm



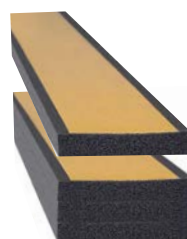
Matt black steel galvanised

IRON ZINC	GLASS HEIGHT	PROFILE H
V2200700	900mm	930mm
V2200710	1000mm	1030mm
V2200720	1100mm	1130mm



Raw steel

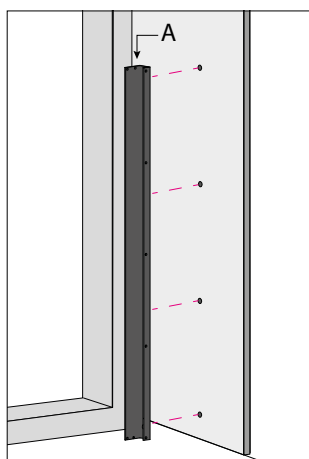
IRON RAW	GLASS HEIGHT	PROFILE H
F2200700	900mm	930mm
F2200710	1000mm	1030mm
F2200720	1100mm	1130mm



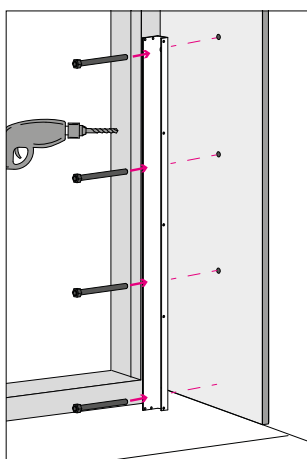
Fastening gasket kit compatible with all profiles

RUBBER	GLASS THICKNESS
E2200640	5+5+PVB
E2200650	6+6+PVB

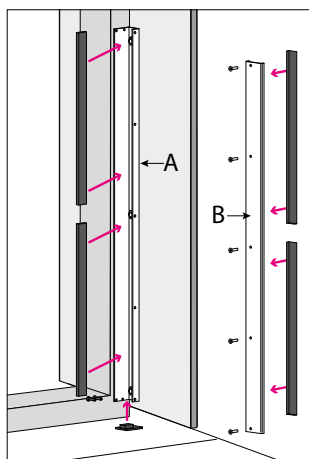
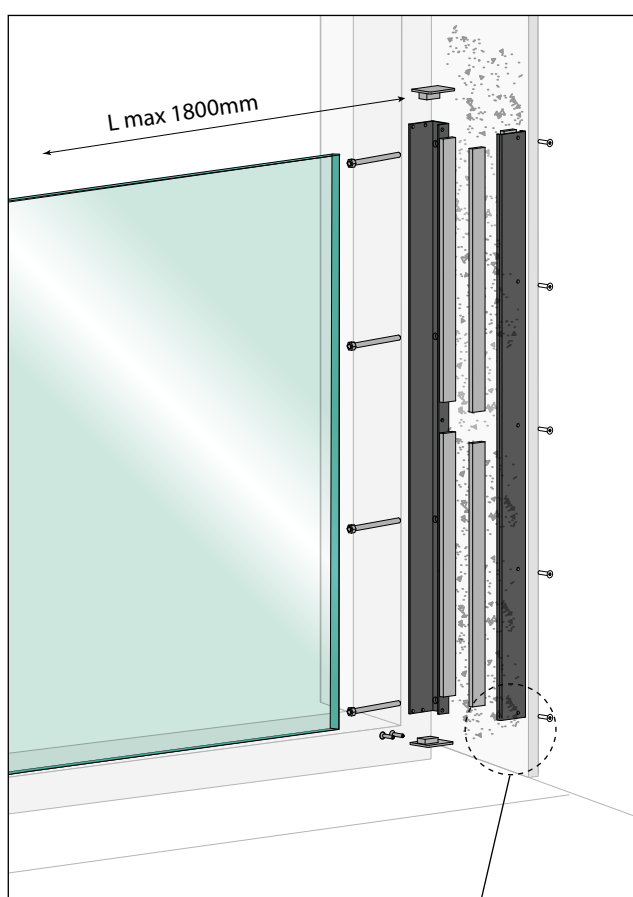
CLEAR VISTA APPLICATION 1 - MASONRY FITTING



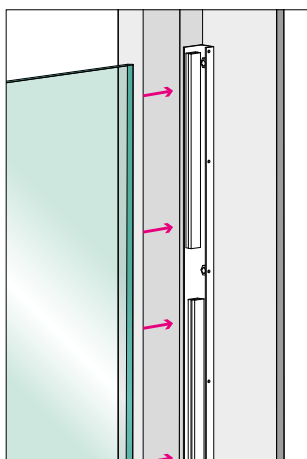
Locate profile **A** inside the masonry door frame and mark the mounting holes.



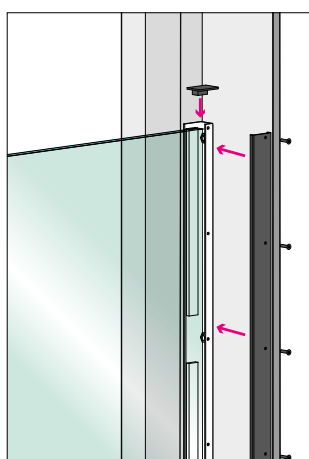
Drill holes in the wall and secure component **A** of the system using the appropriate screws.



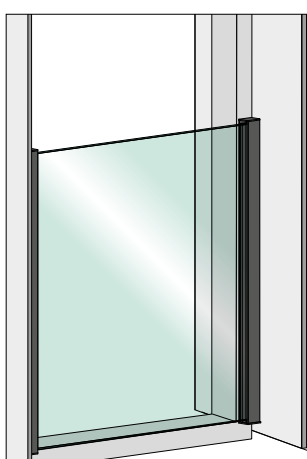
Place the lower fastener. Apply the internal gaskets on profiles **A** and **B**.



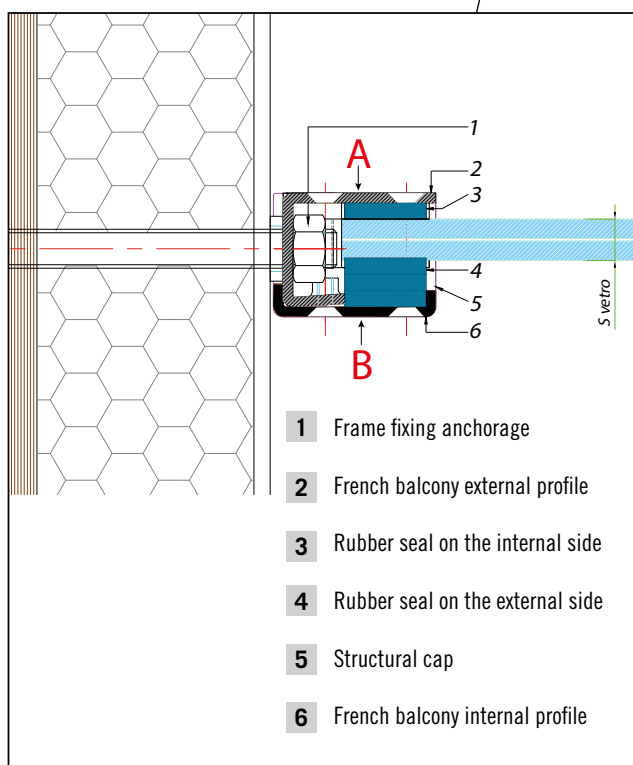
Install the glass.



Attach element **B** to element **A** and insert the upper closure.



Installation completed.

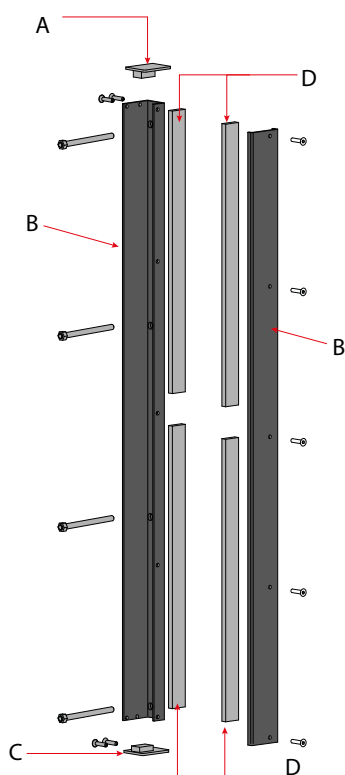


- 1 Frame fixing anchorage
- 2 French balcony external profile
- 3 Rubber seal on the internal side
- 4 Rubber seal on the external side
- 5 Structural cap
- 6 French balcony internal profile

NEW

05 CLEAR VISTA APPLICATION 1 - MASONRY FITTING

CLEAR VISTA APPLICATION 2 - WINDOW FRAME FITTING



COMPONENTS INCLUDED IN THE KIT

- A)** 2 upper closures
B) 4 customisable profiles in materials and finishings required
C) 2 lower closures
D) 8 rubber strips to be applied on the profiles which will be in contact with the glass

Screws and dowels
(purchase separately)



Stainless steel AISI 316

AISI316	GLASS HEIGHT	PROFILE H
E2200600	900mm	936mm
E2200610	1000mm	1036mm
E2200620	1100mm	1136mm



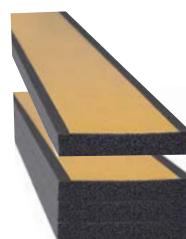
Matt black steel galvanised

IRON ZINC	GLASS HEIGHT	PROFILE H
V2200600	900mm	936mm
V2200610	1000mm	1036mm
V2200620	1100mm	1136mm



Raw steel

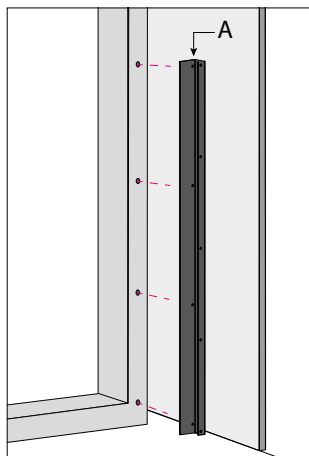
IRON RAW	GLASS HEIGHT	PROFILE H
F2200600	900mm	936mm
F2200610	1000mm	1036mm
F2200620	1100mm	1136mm



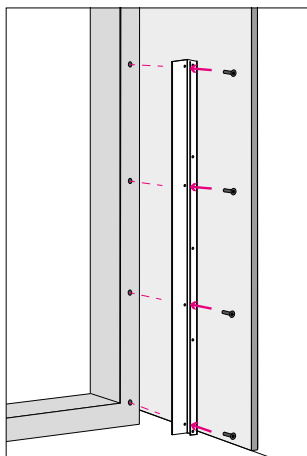
Fastening gasket kit compatible with all profiles

RUBBER	GLASS THICKNESS
E2200640	5+5+PVB
E2200650	6+6+PVB

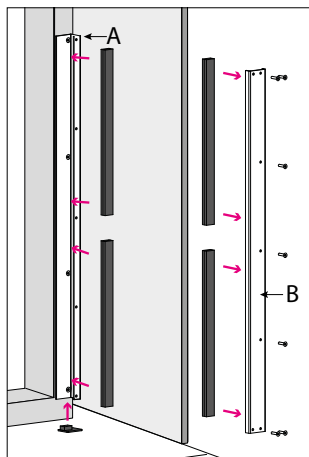
CLEAR VISTA APPLICATION 2 - WINDOW FRAME FITTING



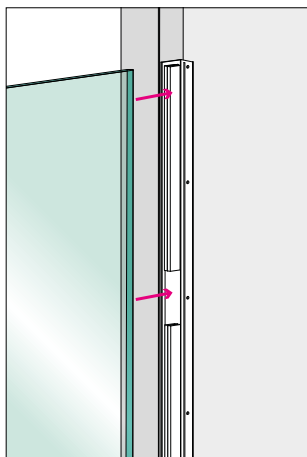
Locate profile **A** inside the window frame and mark the mounting holes.



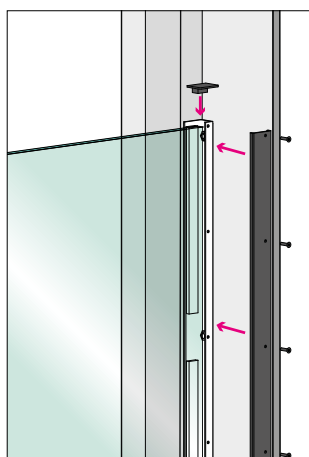
Drill holes in the window frame and secure component **A** of the system using the appropriate screws.



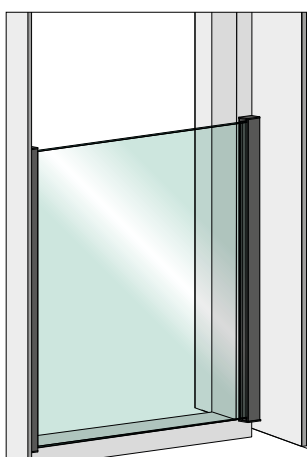
Place the lower fastener. Apply the internal gaskets on profiles **A** and **B**.



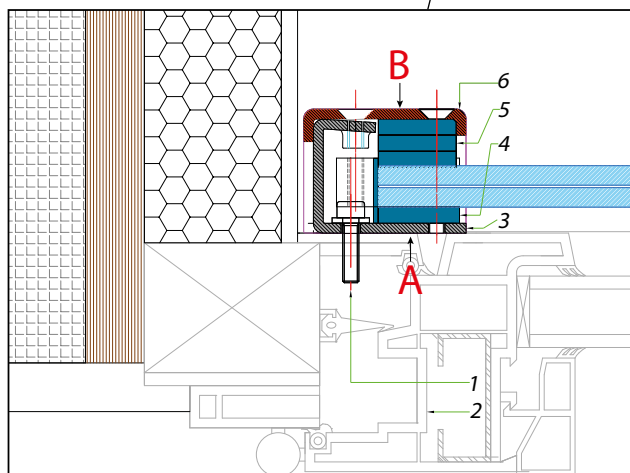
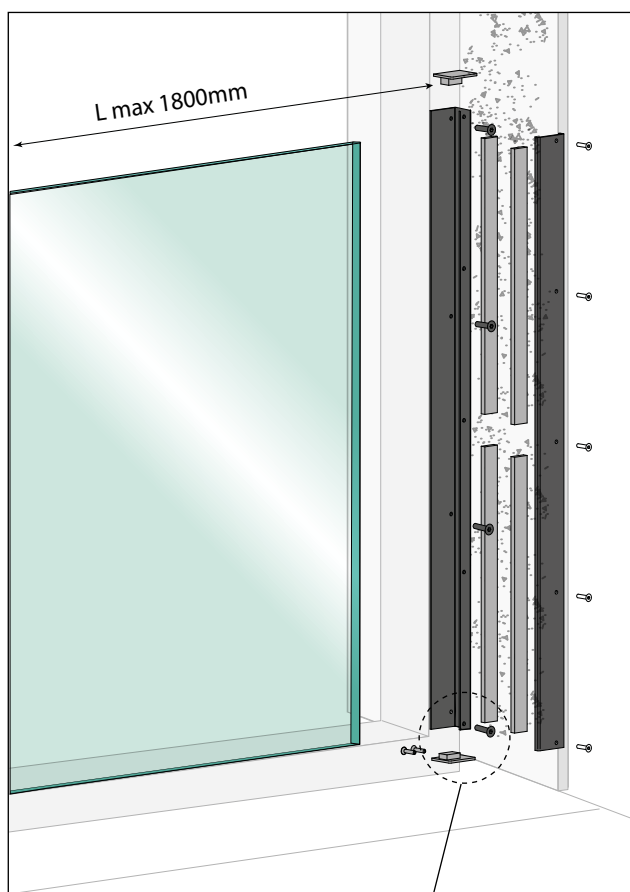
Install the glass.



Attach element **B** to element **A** and insert the upper closure.



Installation completed.



- 1 Frame fixing anchorage
- 2 Frame structure section
- 3 French balcony internal profile
- 4 Rubber seal on the internal side
- 5 Rubber seal on the external side
- 6 French balcony external profile

06 EASY HOLD SYSTEM

ROUND	74 - 78
ROUND INSTALLATION	79
SQUARE	80
SQUARE INSTALLATION	81

06 EASY HOLD SYSTEM



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



Ease of installation is a focus of Easy Hold in a system also characterised by its technical and aesthetic qualities. In addition to being simpler to install, Easy Hold is more cost effective than many other systems on the market with a lighter lower support which still provides the required structural integrity to meet the all important safety criteria.



06 EASY HOLD SYSTEM

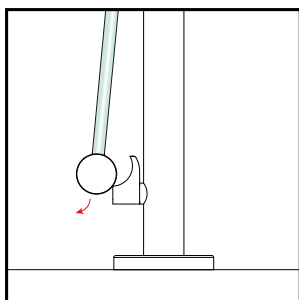
EASY HOLD - ROUND

Functionality and elegance with the new EASY HOLD system

Our EASY HOLD system has been improved to make installation even easier, with special care given to technical and aesthetic details.

New EASY HOLD - ROUND system surpasses itself and the competition. In four different ways.

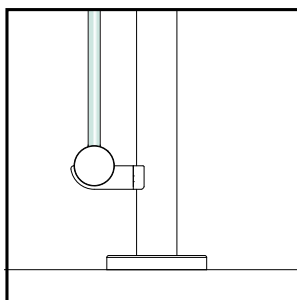
OTHERS



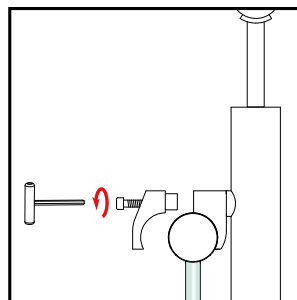
SAFER

It holds the tube during the installation, with no risk of falling.

EASY HOLD - ROUND



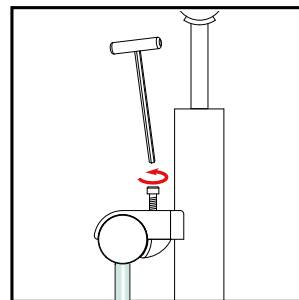
OTHERS



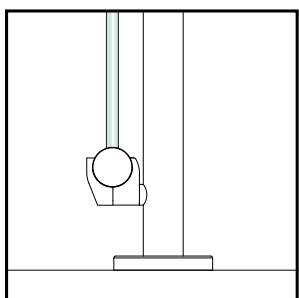
EASIER

Fixing from the top makes installation easier, even from the opposite side of the handrail.

EASY HOLD - ROUND



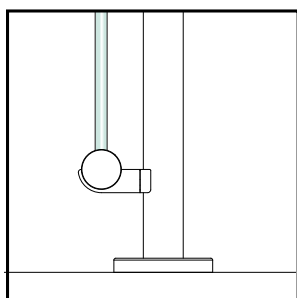
OTHERS



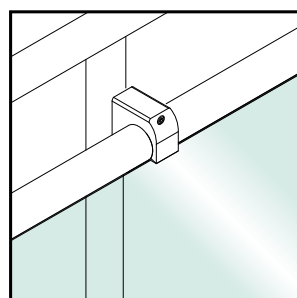
CHEAPER

Thanks to in-depth research and making a structural change, we have been able to make the lower support lighter, thereby reducing the cost of the whole system.

EASY HOLD - ROUND



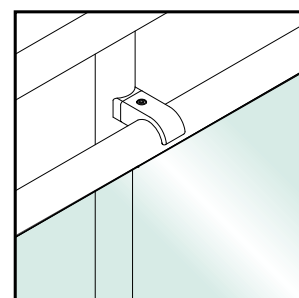
OTHERS



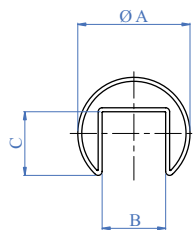
SMART

Lighter and less bulky design.

EASY HOLD - ROUND



EASY HOLD - ROUND



AISI304	AISI316	TUBE A	B	C
Satin Finish				
E1000424	E1100424	Ø 42.4 x 1.5 x 6000mm	24mm	24mm

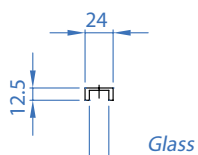
RUBBER GASKETS



Also available in lengths of 6 metres

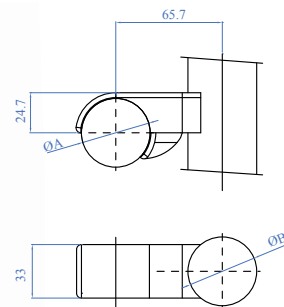
RUBBER	FOR TUBE	GLASS	COIL LENGTH
E1999100	Ø 42.4mm	8 - 10.76mm	3000mm
E1999200	Ø 42.4mm	12 - 16.76mm	3000mm
E1999300	Ø 42.4mm	16.76 - 18mm	3000mm

'SPEEDYRAIL' ABS GASKETS

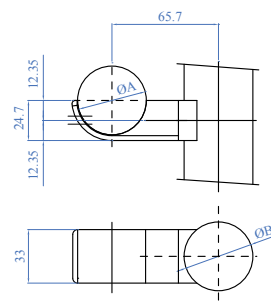


ABS	GLASS	KIT
E1991000	12.76mm	10 pieces
E1991010	16.76mm	10 pieces
E1991020	17.52mm	10 pieces
E1991030	21.52mm	10 pieces

USE E1000424 AND E1100424 WITH THE NEW GASKET **SPEEDYRAIL** FIXING SYSTEM, SEE PAGES 40 - 41



AISI304	AISI316	TUBE A	ANCHORAGE SURFACE B
E2500100	E4500100	Ø 42.4mm	Ø 42.4mm
E2500200	E4500200	Ø 42.4mm	Ø 48.3mm
E2500300	E4500300	Ø 42.4mm	Flat face



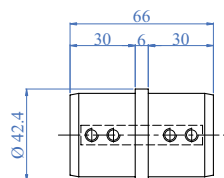
AISI304	AISI316	FOR TUBE	ANCHORAGE SURFACE B
E2500110	E4500110	Ø 42.4mm	Ø 42.4mm
E2500210	E4500210	Ø 42.4mm	Ø 48.3mm
E2500310	E4500310	Ø 42.4mm	Flat face



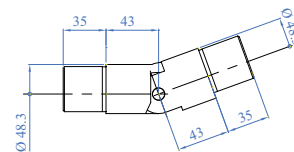
NO NEED TO SMOOTH THE GLASS ON THE EDGES INSERTED INTO THE FIXING TUBE AND NO NEED TO DRILL THE GLASS



EASY HOLD - ROUND



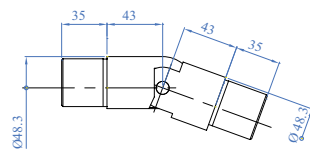
Upward pivotable connector, 25-55°



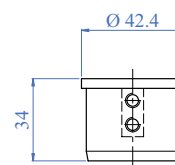
AISI304	AISI316	FOR TUBE
E1200200	E1200100	Ø 42.4 x 1.5mm

AISI316	FOR TUBE
E1510100	Ø 42.4 x 1.5mm

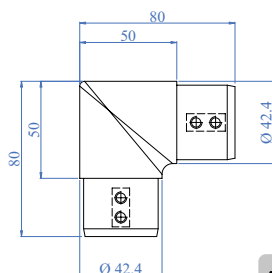
Downward pivotable connector, 25-55°



AISI316	FOR TUBE
E1520100	Ø 42.4 x 1.5mm

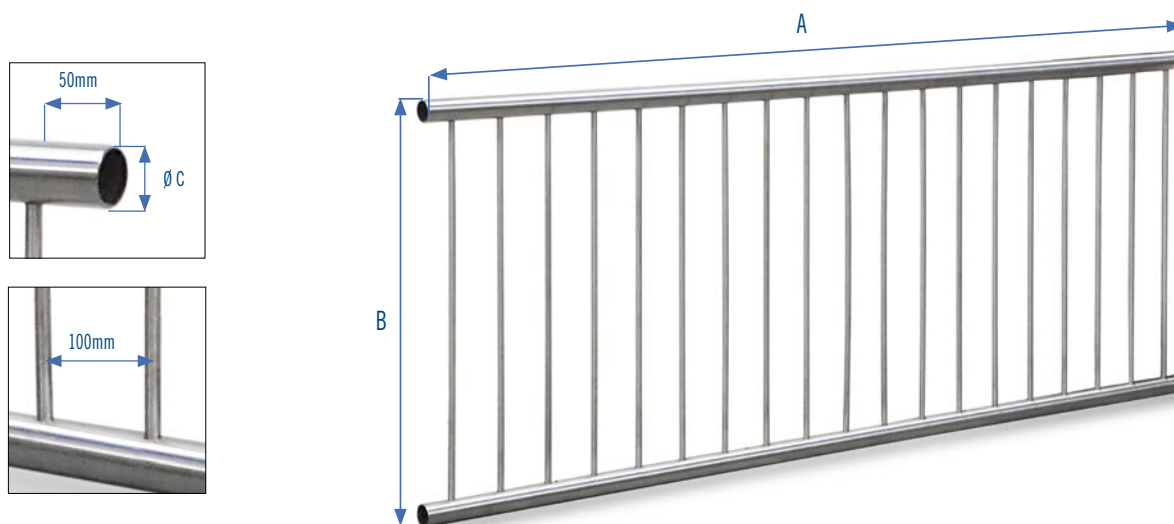


AISI304	AISI316	FOR TUBE
E1100200	E1100100	Ø 42.4 x 1.5mm

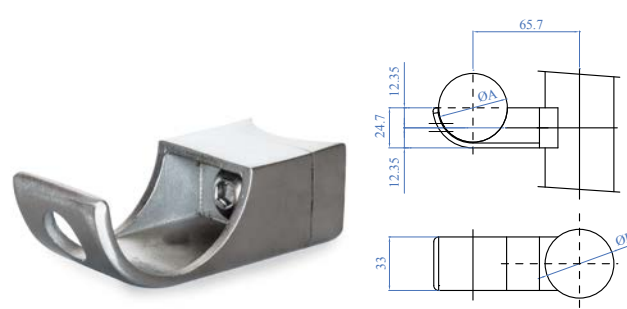
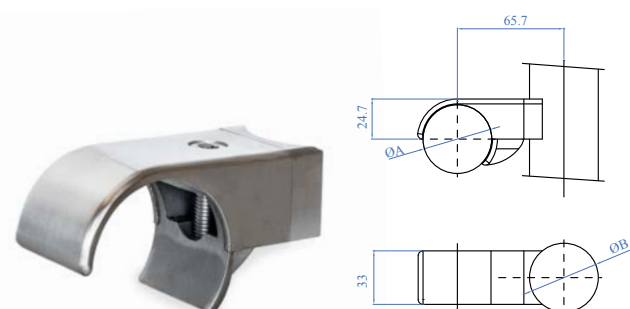


AISI304	AISI316	FOR TUBE
E1400200	E1400100	Ø 42.4 x 1.5mm

EASY HOLD - ROUND



AISI304	AISI316	DIMENSIONS A x B	Ø C
E1900300	E1900310	2000 x 900mm	42.4mm
E1900400	-	3000 x 900mm	42.4mm
-	E1900510	2000 x 1100mm	42.4mm



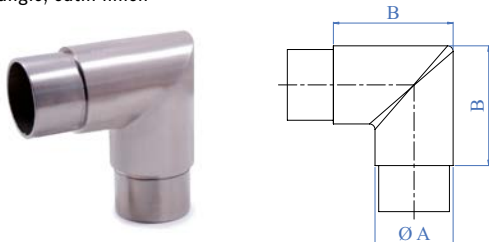
AISI304	AISI316	TUBE A	ANCHORAGE SURFACE B
E2500100	E4500100	Ø 42.4mm	Ø 42.4mm
E2500200	E4500200	Ø 42.4mm	Ø 48.3mm
E2500300	E4500300	Ø 42.4mm	Flat face

AISI304	AISI316	FOR TUBE	ANCHORAGE SURFACE B
E2500110	E4500110	Ø 42.4mm	Ø 42.4mm
E2500210	E4500210	Ø 42.4mm	Ø 48.3mm
E2500310	E4500310	Ø 42.4mm	Flat face



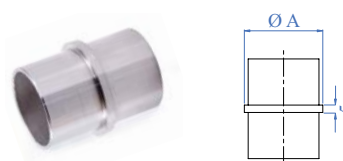
EASY HOLD - ROUND

90° angle, satin finish



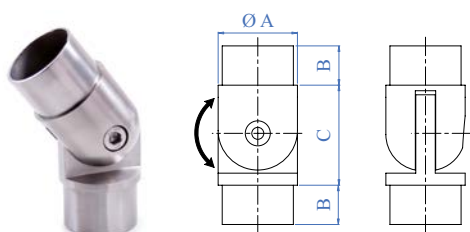
AISI304	AISI316	FOR TUBE A	B
E451/304	E451	Ø 42.4 x 2.0mm	65mm

Connector, satin finish



AISI304	AISI316	FOR TUBE A
E455/304	E455	Ø 42.4 x 2.0mm
	E455/26	Ø 42.4 x 2.0mm

Pivotal connector, satin finish



AISI304	AISI316	FOR TUBE A	B	C
E446/304	E446	Ø 42.4 x 2.0mm	22mm	53mm

Satin finish, with knurling



AISI316	FOR TUBE A
E4100	Ø 42.4 x 2.0mm



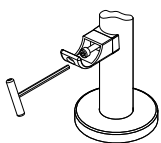
FOR THE POSTS FOR THE EASY HOLD ROUND SYSTEM GO TO PAGE 122



EASY HOLD - ROUND INSTALLATION

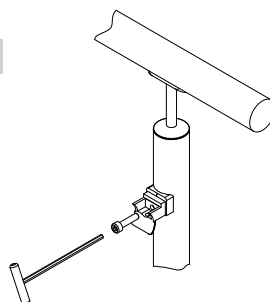
INSTALLATION OF THE EASY HOLD - ROUND ELEMENTS

1



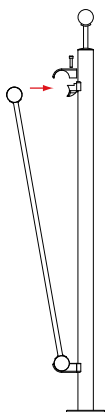
Fix the back of E2500100 at the correct distance from E2500110 using the appropriate allen key

2



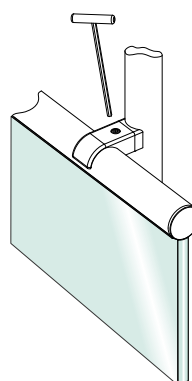
Fix E2500110 on the lower part of the post to the required height

3



Lean the panel on previously fixed E2500110 and let the upper part touch the back of E2500100

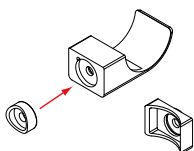
4



With an allen key fix the upper part of E2500100 to complete the assembly

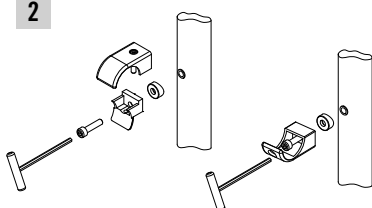
INSTALLATION OF THE EASY HOLD - ROUND ELEMENTS ON AN INCLINED SURFACE

1



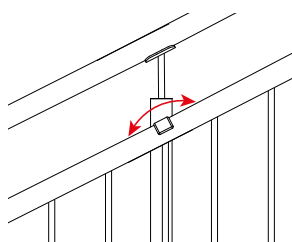
Substitute the rectangular back with the cylindrical one

2



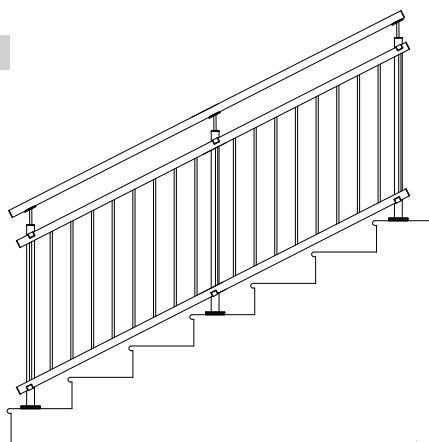
Anchor either to the post or to the surface - whichever is preferred

3

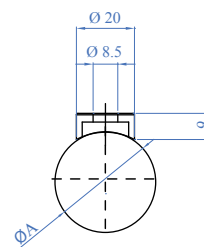


Fix as required

4



Your staircase is easily created

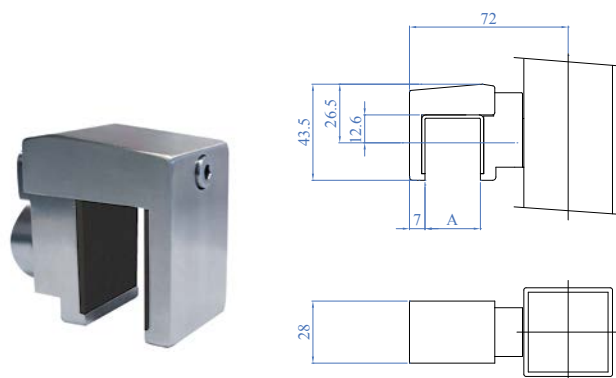


Applications to adaptor on inclined surfaces

AISI304	AISI316	FOR TUBE A
E2500400	E2500410	Ø 42.4mm
E2500500	-	Ø 48.3mm

EASY HOLD - SQUARE

Easy Hold Square system is a more modern style. It has precise lines and sharp edges which give each railing a special elegance.



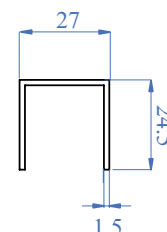
AISI304	AISI316	ANCHORAGE SURFACE	A
E3500100	E3500110	Flat face	From 12.76 to 25mm
E3500200	E3500210	Ø 42.4mm	From 12.76 to 25mm

RUBBER GASKETS

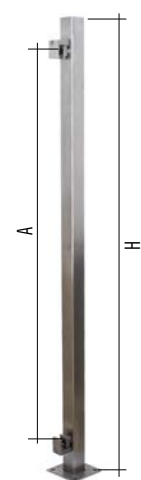


Also available in groups of 6 metres

RUBBER	FOR TUBE	GLASS	COIL LENGTH
E1999100	Ø 42.4mm	8 - 10.76mm	30m
E1999200	Ø 42.4mm	12 - 16.76mm	30m
E1999300	Ø 42.4mm	16.76 - 18mm	30m

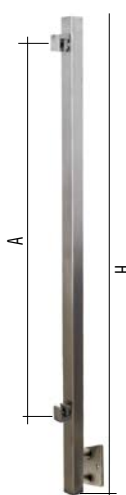


AISI316	PROFILE	LENGTH
E1100000	27 x 24.5 x 1.5mm	3000mm



E02050

Complete with welded flange



E1120/304

Complete with welded flange

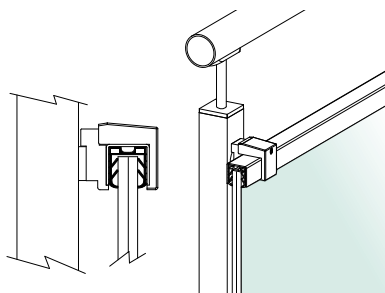
AISI304	AISI316	DIMENSIONS	A	H
EQ32100	EQ32110	40 x 40mm	900mm	1000mm

AISI304	AISI316	DIMENSIONS	A	H
EQ35100	EQ35110	40 x 40mm	900mm	1200mm

EASY HOLD - SQUARE INSTALLATION

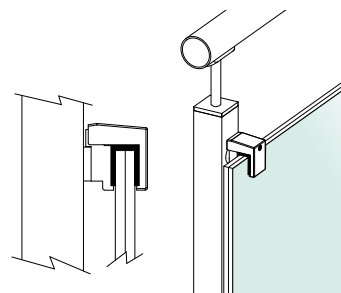
EASY HOLD SQUARE - 3 installation solutions

1



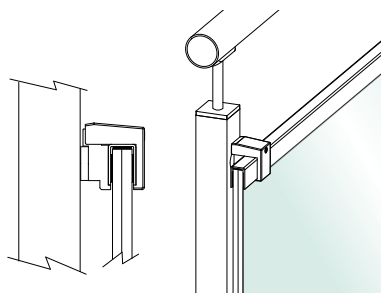
It is to be used in conjunction with E1100000 of the Cube System and with the rubber gaskets supplied.

2



It can be used to anchor the glass directly. By using special rubber gaskets, it is possible to fix glass thicknesses from 10.76 to 21.52mm.

3



It can also be combined with other profiles, simply by using the appropriate rubber gaskets and adjusting the fixing.



07 GLASS CLAMPS & GLASS ADAPTORS

GLASS CLAMPS

HOW TO READ THE GLASS CLAMP CODES	84
GLASS CLAMPS - MODEL 10	85
GLASS CLAMPS - MODEL 11	86
GLASS CLAMPS - MODEL 12	87
GLASS CLAMPS - MODEL 13	88
GLASS CLAMPS - MODEL 14	89
GLASS CLAMPS - MODEL 15	90
GLASS CLAMPS - MODEL 16	91
GLASS CLAMPS - SAFETY PIN	92
GLASS CLAMPS - INSTALLATION	93

GLASS ADAPTORS

ADJUSTABLE FIXING POINTS	94
GLASS WALL CLAMPS	95 - 97

07 GLASS CLAMPS & GLASS ADAPTORS



RUBBER Mallet TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



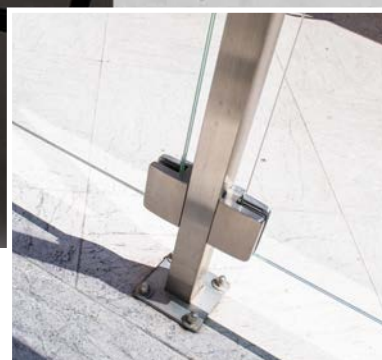
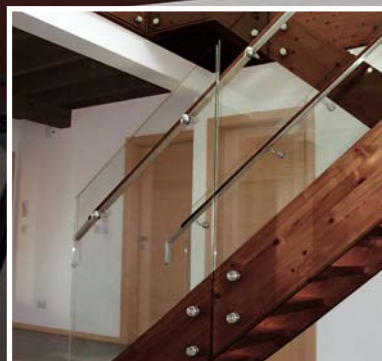
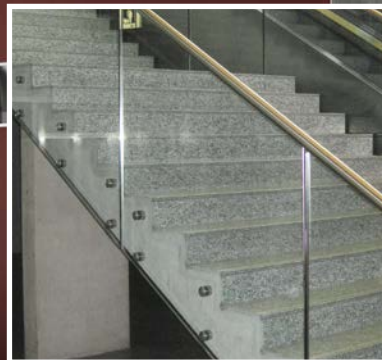
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



Aalco glass clamps are available in a wide range of different sizes and shapes, with either a flat or radial base, to ensure there is an option to suit numerous applications, whatever the design. Materials available include AISI 316 and AISI 304 stainless steels, Zamac and, on request, mirror polish finish in grade 316. Different glass thicknesses are accommodated through the provision of separate specifically sized rubbers. The modular approach has been designed to allow a combination of different features to tailor the handrail to the requirements of a given application. This modularity is reflected in a product coding system which enables easy identification of a glass clamp's specific features. In addition, we also offer a wide range of glass adaptors.



07 GLASS CLAMPS & GLASS ADAPTORS

GLASS CLAMPS - HOW TO READ THE GLASS CLAMP CODES



E 1 10 042 00 EXAMPLE

Finishes	Material	Model	Anchor surface	Rubber
E Satin Finish	1 AISI 304	10 40 x 50 x 24mm Round	000 Flat Surface	00 Without rubber
X Mirror Polished	2 AISI 316	11 45 x 45 x 28mm Square	033 Ø 33.7mm	
J Unpolished	3 Zamac/ Aluminium	12 45 x 63 x 28mm Round	042 Ø 42.4mm	
		13 70 x 55 x 40mm Square - With side stopper	048 Ø 48.3mm	
		14 45 x 63 x 30mm Round	050 Ø 50.8mm	
		15 55 x 55 x 35mm Square - With side stopper		
		16 40 x 50 x 28mm Round		

AISI 304 AISI 316 STAINLESS STEEL FINISHES



Satin Finish



Mirror Polished

ZAMAC FINISHES



Unpolished



Satin Finish

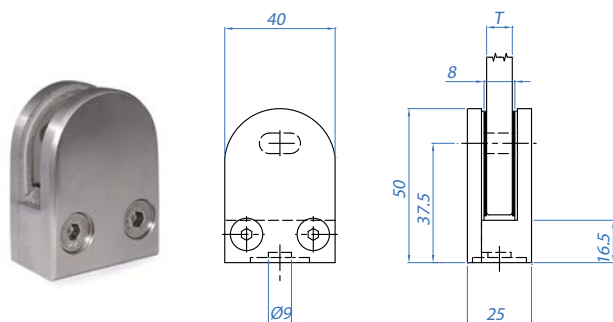


Mirror Polished



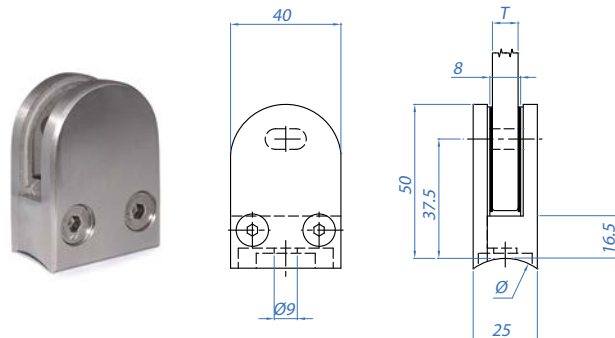
GLASS CLAMPS - MODEL 10

GLASS CLAMPS, FLAT BASE



AISI304					FINISH	FOR TUBE Ø	Box
E	1	10	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
E	2	10	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
X	2	10	000	00	Mirror	Flat surface	4 pcs.

GLASS CLAMPS, RADIAL BASE



AISI304					FINISH	FOR TUBE Ø	Box
E	1	10	033	00	Satin	33.7mm	4 pcs.
E	1	10	042	00	Satin	42.4mm	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
E	2	10	033	00	Satin	33.7mm	4 pcs.
E	2	10	042	00	Satin	42.4mm	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
X	2	10	033	00	Mirror	33.7mm	4 pcs.
X	2	10	042	00	Mirror	42.4mm	4 pcs.

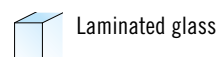
Glass clamps are supplied without rubbers in boxes of 4

RUBBER



Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 10 06	10	6mm	4	2 pcs.
R 10 08	10	8mm	4	2 pcs.

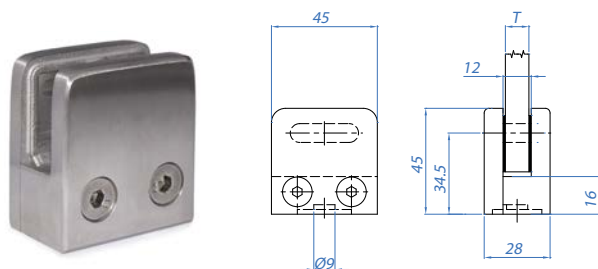


Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 10 07	10	6.76mm	4	2 pcs.

GLASS CLAMPS - MODEL 11

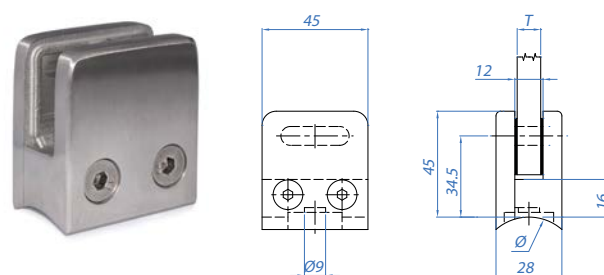
GLASS CLAMPS, FLAT BASE



AISI304	FINISH	FOR TUBE Ø	Box
E 1 11 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 11 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 11 000 00	Mirror	Flat surface	4 pcs.

Glass clamps are supplied without rubbers in boxes of 4

GLASS CLAMPS, RADIAL BASE



AISI304	FINISH	FOR TUBE Ø	Box
E 1 11 042 00	Satin	42.4mm	4 pcs.
E 1 11 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 11 042 00	Satin	42.4mm	4 pcs.
E 2 11 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 11 042 00	Mirror	42.4mm	4 pcs.

RUBBER



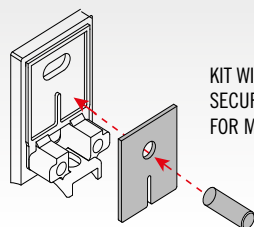
Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 11 06	11	6mm	4	2 pcs.
R 11 08	11	8mm	4	2 pcs.
R 11 10	11	10mm	4	2 pcs.



Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 11 07	11	6.76mm	4	2 pcs.
R 11 09	11	8.76mm	4	2 pcs.
R 11 44	11	9.52mm	4	2 pcs.

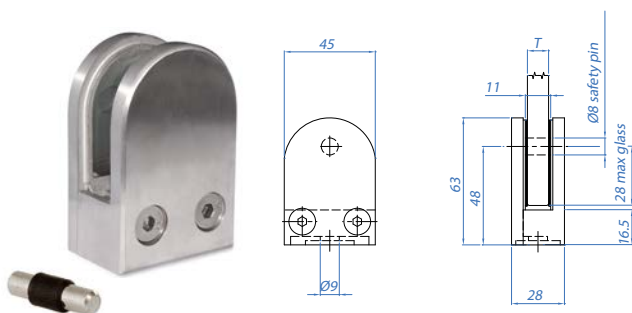
KIT WITH RUBBER AND
SECURITY PIN
FOR MODEL 11

Laminated glass


SAFETY KIT	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 11 09P	11	8.76mm	4	2 pcs.
R 11 11P	11	10.76mm	4	2 pcs.

GLASS CLAMPS - MODEL 12

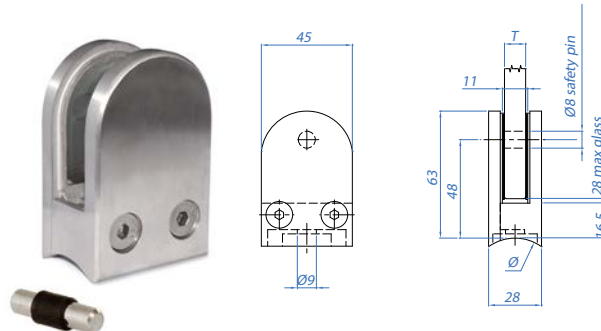
GLASS CLAMPS, FLAT BASE





With locking pin

AISI304					FINISH	FOR TUBE Ø	Box 
E	1	12	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box 
E	2	12	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box 
X	2	12	000	00	Mirror	Flat surface	4 pcs.

GLASS CLAMPS, RADIAL BASE



With locking pin

AISI304						FINISH	FOR TUBE Ø	Box 
E	1	12	042	00	Satin		42.4mm	4 pcs.
E	1	12	048	00	Satin		48.3mm	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
E	2	12	042	00	Satin		42.4mm	4 pcs.
E	2	12	048	00	Satin		48.3mm	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
X	2	12	042	00	Mirror		42.4mm	4 pcs.
X	2	12	048	00	Mirror		48.3mm	4 pcs.

RUBBER



Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 12 06	12	6mm	4	2 pcs.
R 12 08	12	8mm	4	2 pcs.
R 12 10	12	10mm	4	2 pcs.



RUBBER	MOD.	THICKNESS	NO. SET	Box
R 12 00	12/14	0.5mm	4	100 pcs.



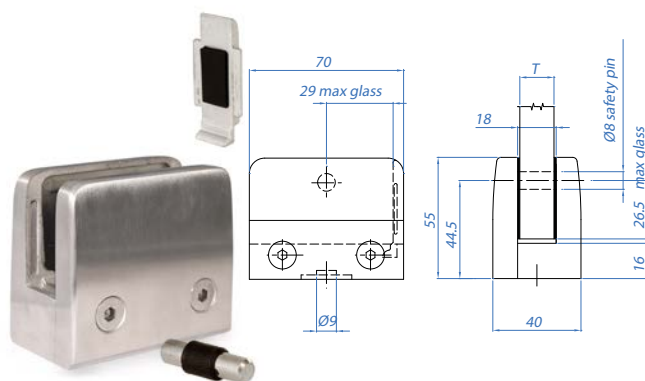
Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 12 07	12	6.76mm	4	2 pcs.
R 12 09	12	8.76mm	4	2 pcs..
R 12 44	12	9.52mm	4	2 pcs.
R 12 11	12	10.76mm	4	2 pcs.

07 GLASS CLAMPS - MODEL 12

GLASS CLAMPS - MODEL 13

GLASS CLAMPS, FLAT BASE

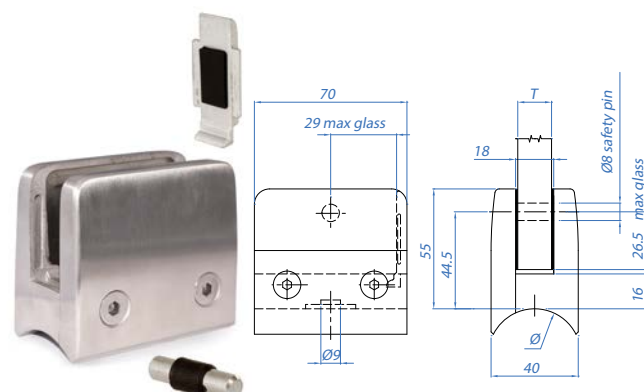


With locking pin

AISI304	FINISH	FOR TUBE Ø	Box
E 1 13 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 13 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 13 000 00	Mirror	Flat surface	4 pcs.

Glass clamps are supplied without rubbers in boxes of 4

GLASS CLAMPS, RADIAL BASE



With locking pin

AISI304	FINISH	FOR TUBE Ø	Box
E 1 13 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 13 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 13 048 00	Mirror	48.3mm	4 pcs.

RUBBER



Monolithic glass

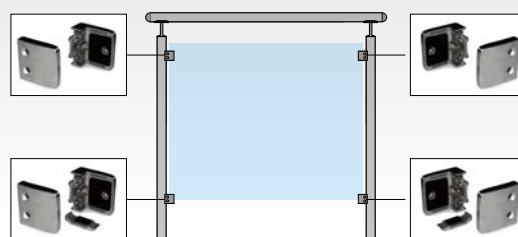
RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 13 12	13	12mm	4	2 pcs.
R 13 15	13	15mm	4	2 pcs.



Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 13 44	13	9.52mm	4	2 pcs.
R 13 13	13	12.76mm	4	2 pcs.
R 13 17	13	16.76mm	4	2 pcs.
R 13 18	13	17.52mm	4	2 pcs.

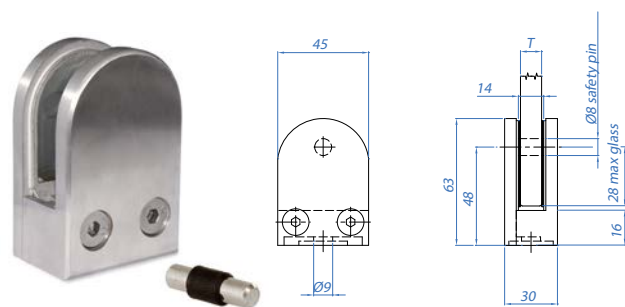
TO COMPLETELY REMOVE THE POSSIBILITY OF THE GLASS SLIDING, USE THE ACCESSORY SUPPLIED THAT CAN BE USED ON BOTH SIDES



i

GLASS CLAMPS - MODEL 14

GLASS CLAMPS, FLAT BASE

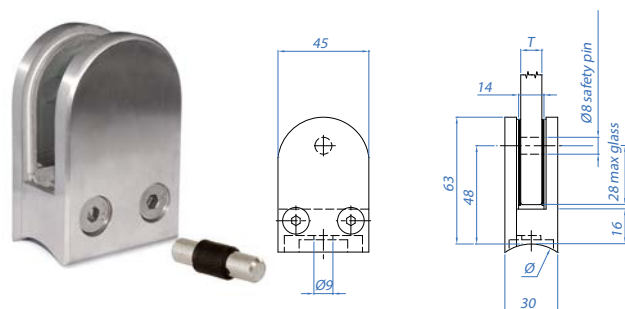


With locking pin

AISI304					FINISH	FOR TUBE Ø	Box
E	1	14	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
E	2	14	000	00	Satin	Flat surface	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
X	2	14	000	00	Mirror	Flat surface	4 pcs.

Glass clamps are supplied without rubbers in boxes of 4

GLASS CLAMPS, RADIAL BASE



With locking pin

AISI304					FINISH	FOR TUBE Ø	Box
E	1	14	042	00	Satin	42.4mm	4 pcs.
E	1	14	048	00	Satin	48.3mm	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
E	2	14	042	00	Satin	42.4mm	4 pcs.
E	2	14	048	00	Satin	48.3mm	4 pcs.
AISI316					FINISH	FOR TUBE Ø	Box
X	2	14	042	00	Mirror	42.4mm	4 pcs.

RUBBER



Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO PER SET
R 14 12	14	12mm	4	2 pcs.

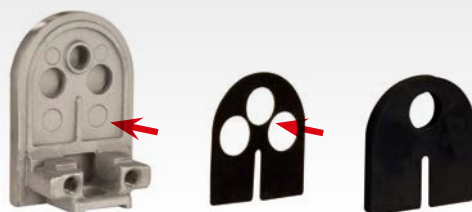


Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO PER SET
R 14 11	14	10.76mm	4	2 pcs.
R 14 13	14	12.76mm	4	2 pcs.
R 14 14	14	13.52mm	4	2 pcs.

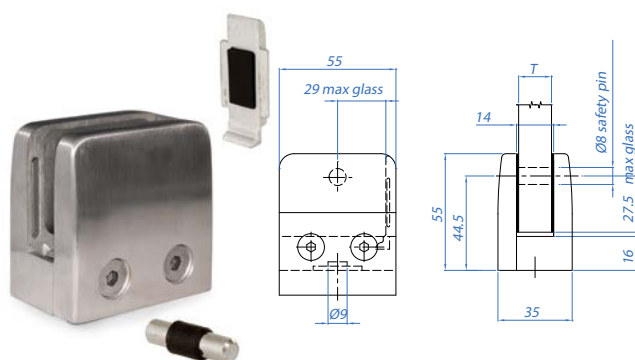
RUBBER	MOD.	THICKNESS	Nr. Set	Box
R 12 00	12/14	0.5mm	4	100 pcs.

Rubber gasket with a thickness of 0.5mm suitable to compensate for the variations in glass thicknesses. To be coupled with the main rubber gasket. Only for the glass clamp models 12 and 14.



GLASS CLAMPS - MODEL 15

GLASS CLAMPS, FLAT BASE

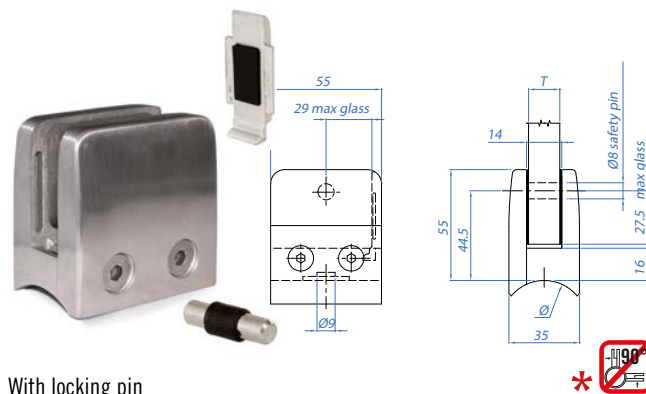


With locking pin

AISI304	FINISH	FOR TUBE Ø	Box
E 1 15 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 15 000 00	Satin	Flat surface	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 15 000 00	Mirror	Flat surface	4 pcs.
ZAMAC RAW	FINISH	FOR TUBE Ø	Box
J 3 15 000 00	Raw	Flat surface	4 pcs.
ZAMAC SATIN	FINISH	FOR TUBE Ø	Box
E 3 15 000 00	Satin	Flat surface	4 pcs.

Glass clamps are supplied without rubbers in boxes of 4

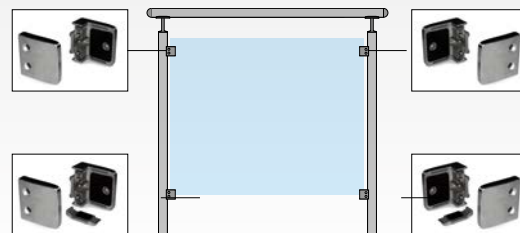
GLASS CLAMPS, RADIAL BASE



With locking pin

AISI304	FINISH	FOR TUBE Ø	Box
E 1 15 *042 00	Satin	42.4mm	4 pcs.
E 1 15 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
E 2 15 *042 00	Satin	42.4mm	4 pcs.
E 2 15 048 00	Satin	48.3mm	4 pcs.
AISI316	FINISH	FOR TUBE Ø	Box
X 2 15 *042 00	Mirror	42.4mm	4 pcs.

TO COMPLETELY REMOVE THE POSSIBILITY OF THE GLASS SLIDING, USE THE ACCESSORY SUPPLIED THAT CAN BE USED ON BOTH SIDES



RUBBER



Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 15 08	15	8mm	4	2 pcs.
R 15 10	15	10mm	4	2 pcs.
R 15 12	15	12mm	4	2 pcs.

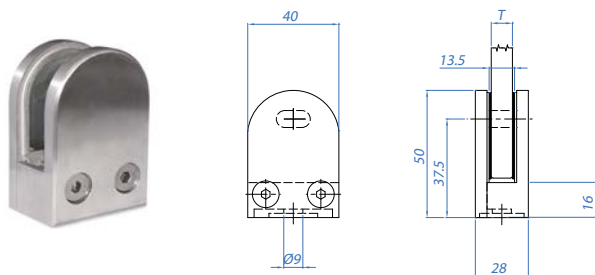


Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 15 09	15	8.76mm	4	2 pcs.
R 15 44	15	9.52mm	4	2 pcs.
R 15 11	15	10.76mm	4	2 pcs.
R 15 13	15	12.76mm	4	2 pcs.
R 15 14	15	13.52mm	4	2 pcs.

GLASS CLAMPS - MODEL 16

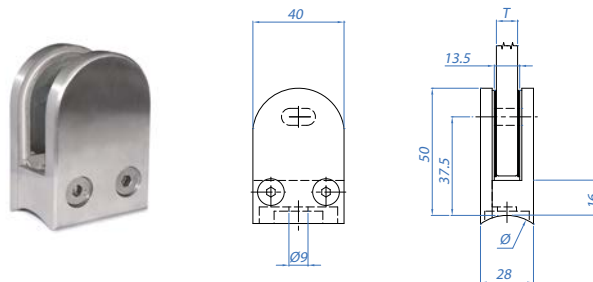
GLASS CLAMPS, FLAT BASE




AISI304						FINISH	FOR TUBE Ø	Box 
E	1	16	000	00	Satin		Flat surface	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
E	2	16	000	00	Satin		Flat surface	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
X	2	16	000	00	Mirror		Flat surface	4 pcs.

Glass clamps are supplied without rubbers in boxes of 4

GLASS CLAMPS, RADIAL BASE



AISI304						FINISH	FOR TUBE Ø	Box 
E	1	16	033	00	Satin		33.7mm	4 pcs.
E	1	16	042	00	Satin		42.4mm	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
E	2	16	033	00	Satin		33.7mm	4 pcs.
E	2	16	042	00	Satin		42.4mm	4 pcs.
AISI316						FINISH	FOR TUBE Ø	Box 
X	2	16	042	00	Mirror		42.4mm	4 pcs.

RUBBER



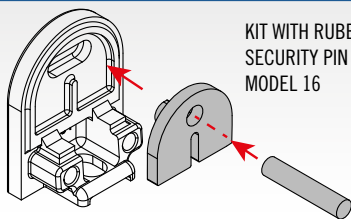
Monolithic glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 16 08	16	8mm	4	2 pcs.
R 16 10	16	10mm	4	2 pcs.



Laminated glass

RUBBER	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 16 09	16	8.76mm	4	2 pcs.
R 16 44	16	9.52mm	4	2 pcs.
R 16 11	16	10.76mm	4	2 pcs.



KIT WITH RUBBER AND
SECURITY PIN FOR
MODEL 16



Laminated glass

SAFETY KIT	MOD.	GLASS THICKNESS T	NO. SET	NO. PER SET
R 16 09P	16	8.76mm	4	2 pcs.
R 16 11P	16	10.76mm	4	2 pcs.



GLASS CLAMPS - SAFETY PIN

SAFETY PIN



Removes any chance of the glass sliding, giving peace of mind.



Saves time and money, as you do not need to drill the glass to insert the safety pins inside the clamps. The cost of drilling 4 holes in the glass averages an additional 15% on the cost of 1m² of glass - a cost that this accessory eliminates.

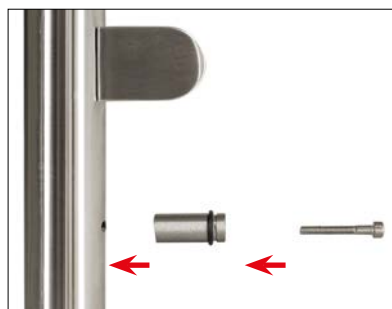


Only one **safety pin** is used on each side of the post.



1

DRILL A HOLE IN THE POST
BENEATH THE GLASS CLAMP



2

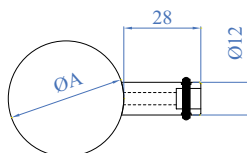
INSERT THE SAFETY PIN



3

FIT THE GLASS

EXTERNAL SAFETY PIN



AISI304

AISI316

FOR TUBE A

E21810

E41810

Ø 42.4mm

E21910

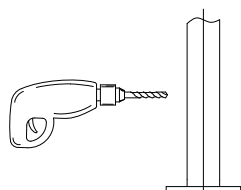
E41910

Flat surface

GLASS CLAMPS - INSTALLATION

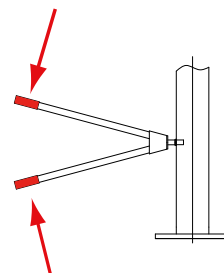
1

Drill an 11mm hole in the tube



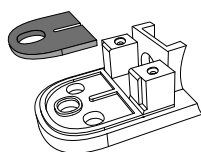
2

Use a riveting tool with an M8 rivet



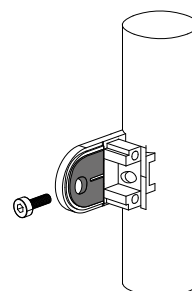
3

Put the rubbers of the required thickness in the appropriate position



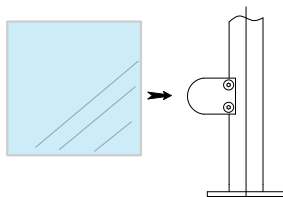
4

Fix the support to the tube by using an M8 screw



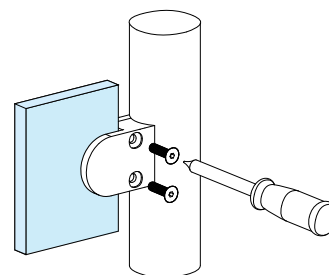
5

Position the glass against the support



6

Fix the support to the clamp with an M6 screw



WARNING

Please retain this brochure particularly the installation manual. Read the instruction manual carefully before assembling and installing the component parts. Always follow the legislation appropriate to the country of installation and for special projects please check local and national building regulations. Fit all parts as indicated in the relevant installation manual. Do not fit or use any products if you have doubts concerning its fitting. Do not use or install the products if you are missing any component pieces. In such cases, please contact your local Service Centre.

CHECKING AND MAINTENANCE

The fitting of any installation must be carried out by skilled workers, following instructions contained in the technical sheets supplied. Regular, periodical maintenance and checking are needed in order to gain and maintain the functionality and efficiency of any installation. Again, inspection and maintenance should only be carried out by competent and skilled workers.

We therefore suggest using only installers recommended by the manufacturer. Failure to do so will result in Aalco refusing all responsibility.

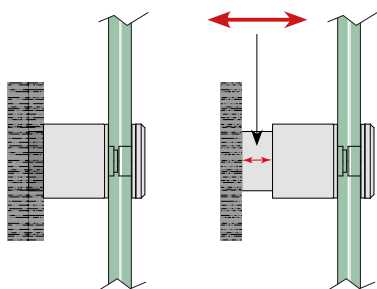
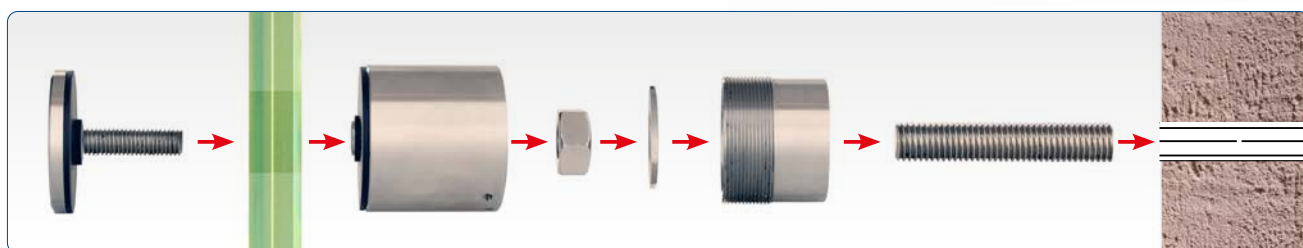
CLEANING INSTRUCTIONS

The use of stainless steel metallic parts guarantees the resistance to different atmospheric conditions. Do not use acids, alkaline solutions, abrasives or corrosive agents to clean the railings.

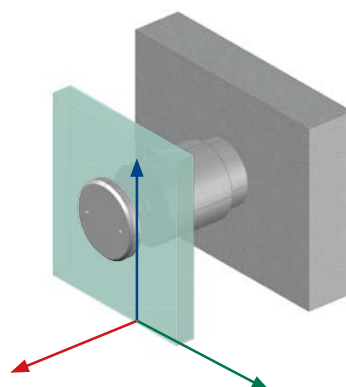
ADJUSTABLE FIXING POINTS

Aalco new ADJUSTABLE fixing system for balustrades and much more.

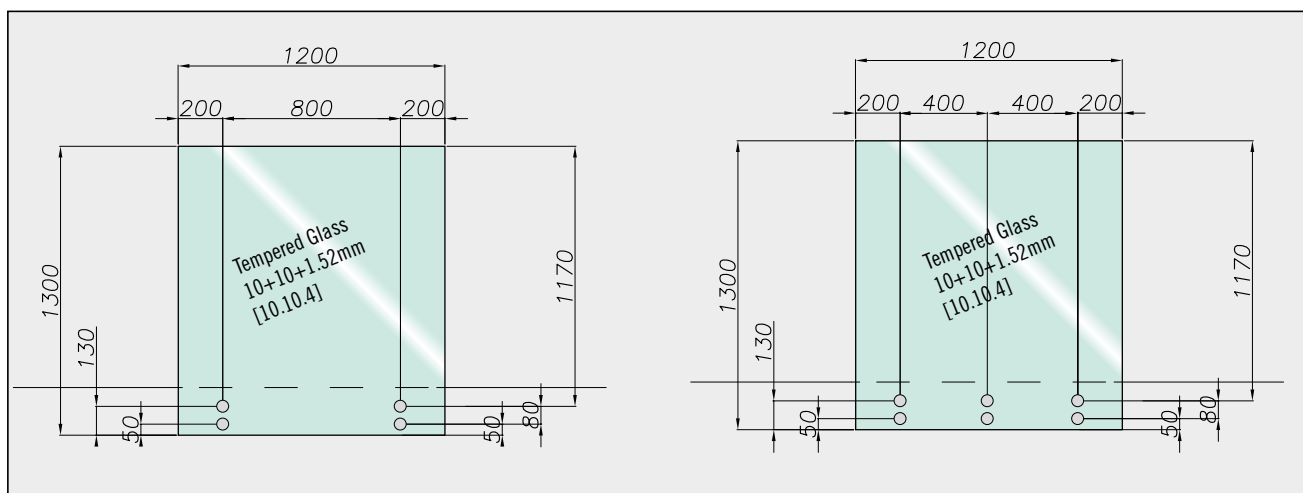
This innovative glass fixing system allows total control over the placement of the glass sheets, thus facilitating installation, even on irregular walls.



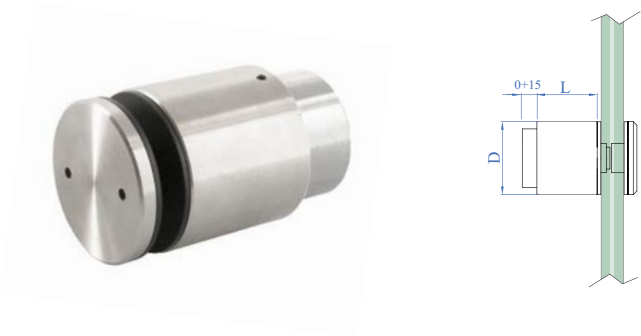
12mm depth adjustability of the glass sheet



360° adjustability of the glass sheet



GLASS WALL CLAMPS

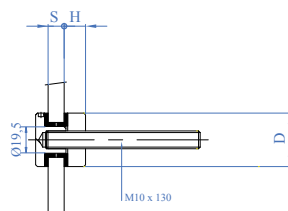


AISI304	LENGTH L	DIAMETER D	GLASS THICKNESS
E620075	45mm	40mm	from 12.76 to 15mm
E620080	45mm	50mm	from 16.76 to 21.52mm

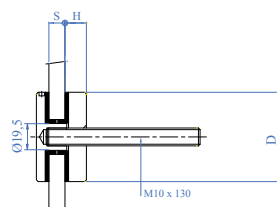
AISI316	LENGTH L	DIAMETER D	GLASS THICKNESS
E640075	45mm	40mm	from 12.76 to 15mm
E640080	45mm	50mm	from 16.76 to 21.52mm
E640085	45mm	60mm	from 22 to 25.52mm



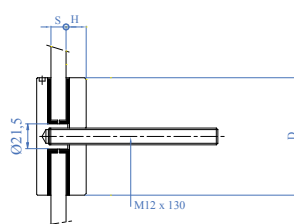
GLASS WALL CLAMPS



AISI304	AISI316	H	DIAMETER D	GLASS THICKNESS S
E40930304	E40930	10mm	30mm	8 - 16.76mm



AISI304	AISI316	H	DIAMETER D	GLASS THICKNESS S
E40940304	E40940	10mm	50mm	8 - 16.76mm



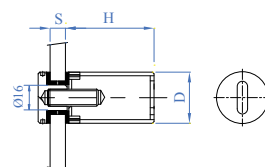
AISI316	H	DIAMETER D	GLASS THICKNESS S
E40960	10mm	60mm	8 - 16.76mm

ADAPTOR FOR WOOD

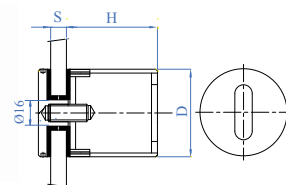
E40999 makes the installation of the glass supports on wood very easy. The item is to be installed in the place of the M10 threaded rod



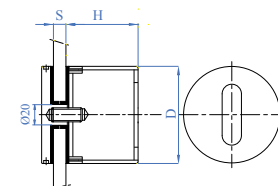
AISI304	METRIC THREAD	WOOD THREAD	LENGTH
E40999	M10	11	100mm



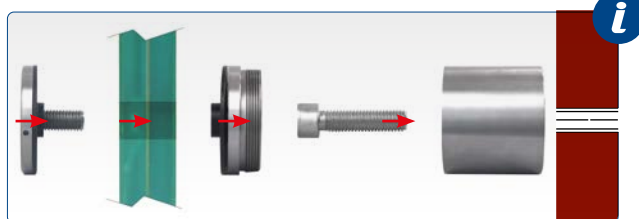
AISI304	AISI316	H	DIAMETER D	GLASS THICKNESS S
E40900304	E40900	40mm	30mm	8 - 16.76mm
E40901304	E40901	50mm	30mm	8 - 16.76mm
E40902304	E40902	60mm	30mm	8 - 16.76mm



AISI316	H	DIAMETER D	GLASS THICKNESS S
E40910	40mm	50mm	8 - 17.52mm
E40911	50mm	50mm	8 - 17.52mm
E40912	60mm	50mm	8 - 17.52mm



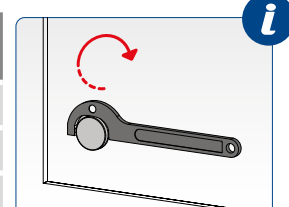
AISI316	H	DIAMETER D	GLASS THICKNESS S
E40920	40mm	60mm	8 - 17.52mm
E40921	50mm	60mm	8 - 17.52mm
E40922	60mm	60mm	8 - 17.52mm



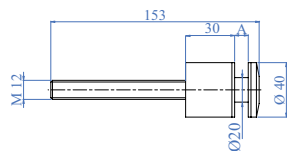
Adjustable wrench to tighten rods and suspended steps



Code No.	FOR DIAMETER
E40790	15 - 35mm
E40791	36 - 50mm
E40792	51 - 80mm

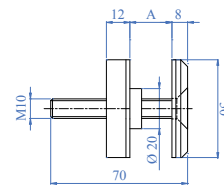


GLASS WALL CLAMPS



Round support complete with threaded screw and glass attachment

2kN



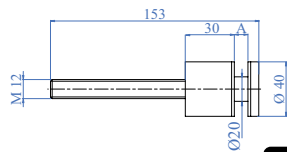
Round support complete with threaded screw and glass attachment

2kN



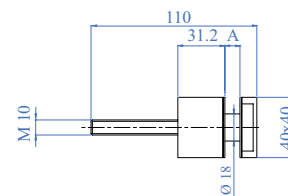
AISI304	AISI316	GLASS THICKNESS A
E2200100	E2200200	from 8 to 12.76mm
E2200300	E2200400	from 16.76 to 21.52mm

AISI304	GLASS THICKNESS A
E2200500	from 8 to 21.52mm



Round support complete with threaded screw and glass attachment

2kN



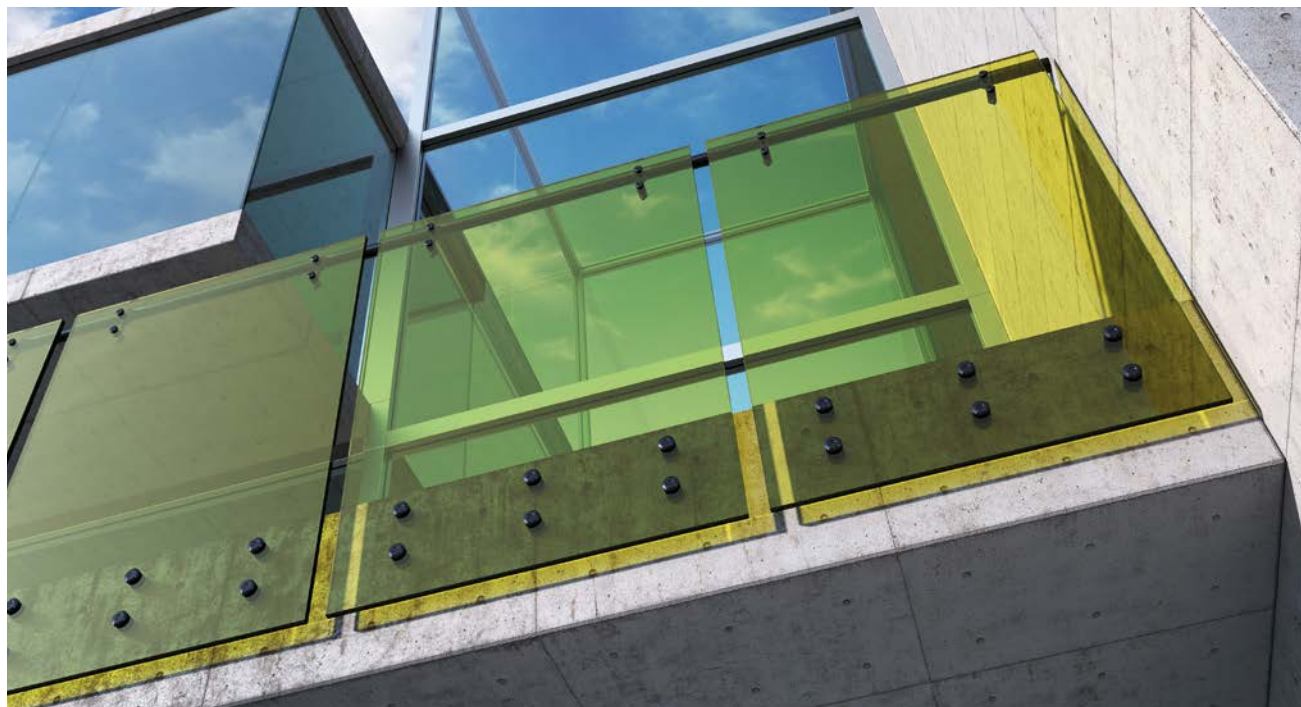
Square support complete with threaded screw and glass attachment

2kN



AISI304	GLASS THICKNESS A
E004720163	from 8 to 12.76mm

AISI304	GLASS THICKNESS A
E004720185	from 8 to 12.76mm



07 GLASS ADAPTORS - GLASS WALL CLAMPS

08 DA VINCI CLAMP

DA VINCI CLAMP SYSTEM INTRODUCTION	100
DA VINCI CLAMP SYSTEM - ROUND	101
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08 DA VINCI CLAMP SYSTEM



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



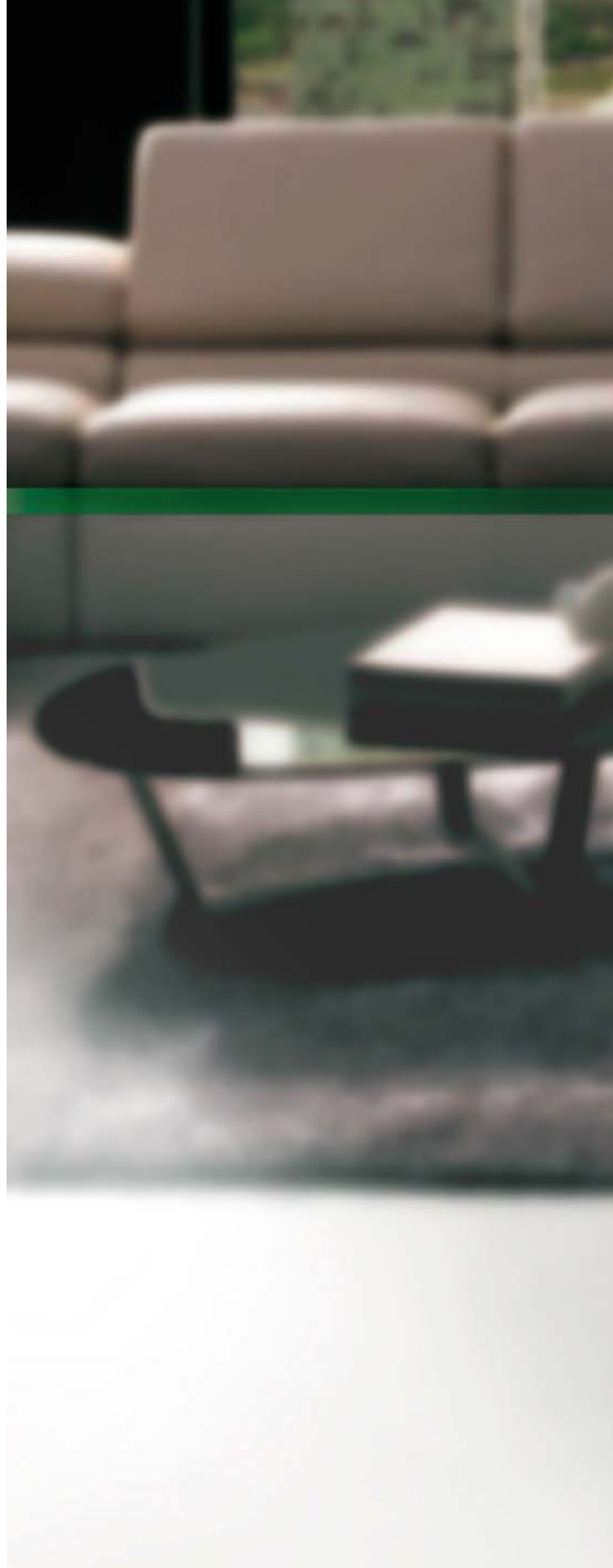
PRODUCT TO BE WELDED



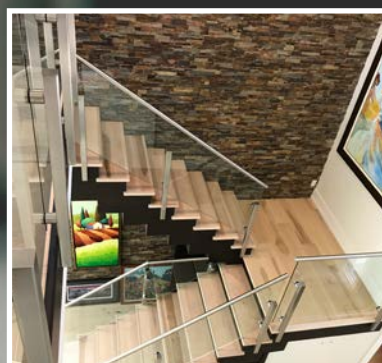
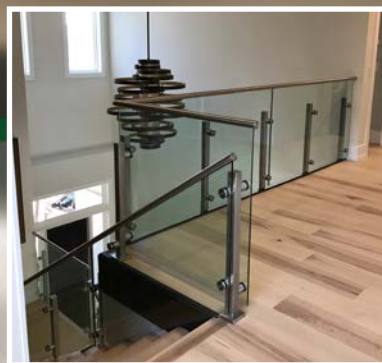
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



Da Vinci is an innovative glass clamp system based on an interchangeable clamp that can be used with almost any tube or newel post. The movable clamp enables the glass to be rotated around the mounted post, with a lateral locking mechanism requiring just a single support for a glazing panel. A unique glass aligner ensures correct positioning of the glazing - a particularly useful feature in applications where the floor is uneven or in instances when the newel posts have been incorrectly installed.



08 DA VINCI CLAMP SYSTEM

DA VINCI CLAMP SYSTEM

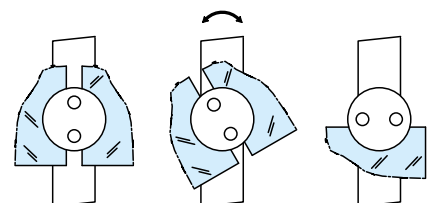
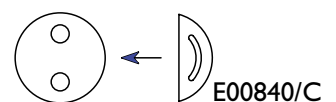
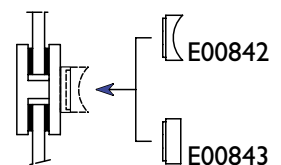
1
INNOVATIVE
GLASS CLAMP

MANY
DIFFERENT
SOLUTIONS

WHY IS IT INNOVATIVE?

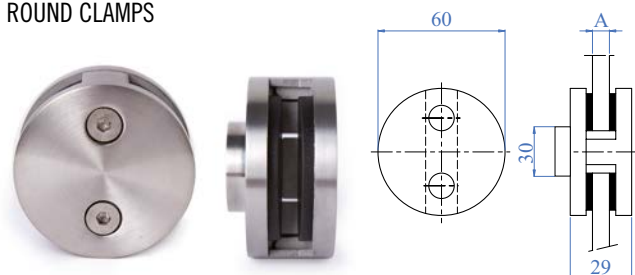


- The interchangeable clamp can be used with almost any tube!
- Lateral locking enables it to be used as a single glass support
- The movable clamp permits rotation of the glass around the mounted post



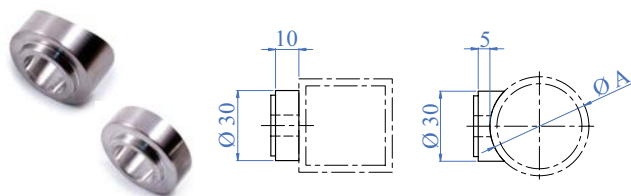
DA VINCI CLAMP SYSTEM - ROUND

ROUND CLAMPS



AISI304	AISI316	DIMENSION
Satin Finish		
E00840/304	E00840	Ø 60mm
Mirror Polished		
-	X00840	Ø 60mm

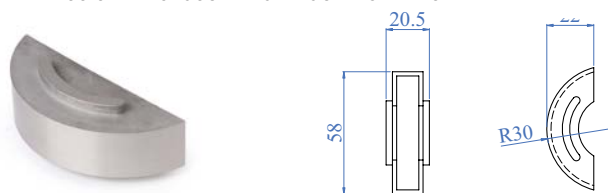
ADAPTOR FOR ROUND CLAMPS



Adaptor to be inserted on round clamp

AISI316	FOR TUBE A
E00842	Ø 42.4mm
E00844	Ø 48.3mm
E00843	Flat face

STAINLESS STEEL CLOSURE FOR ROUND CLAMPS



Stainless steel closure satin finished, fundamental to obtain a glass holder for just one piece of glass

AISI316
Satin Finish
E00840/C

RUBBER FOR ROUND GLASS CLAMPS

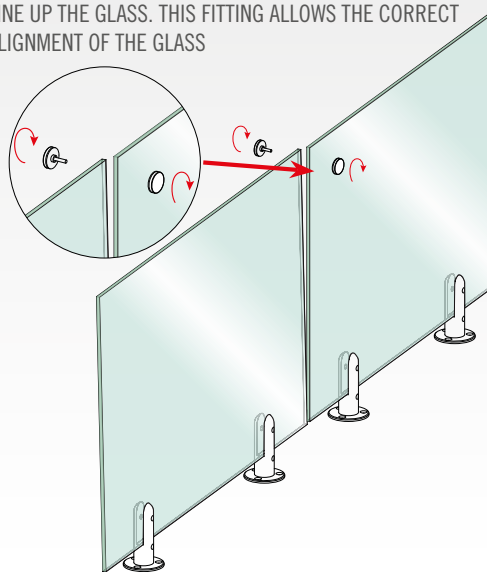


To use with these items:
E00840/304 - E00840 - X00840

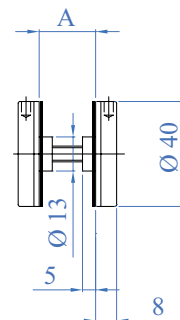
RUBBER	NUMBER OF PIECES IN SET	GLASS THICKNESS A
E00840/R	2	8mm
E00840/R1	2	8.76mm
E00840/R2	2	10mm
E00840/R3	2	10.76mm
E00840/R4	2	12mm
E00840/R5	2	12.76mm

WE ARE ABLE TO PRODUCE ADAPTORS FOR ANY SURFACE.

IN MANY CASES, BECAUSE OF UNEVEN FLOORS OR INCORRECTLY INSTALLED NEWEL POSTS, IT BECOMES VERY DIFFICULT TO LINE UP THE GLASS. THIS FITTING ALLOWS THE CORRECT ALIGNMENT OF THE GLASS



GLASS ALIGNER

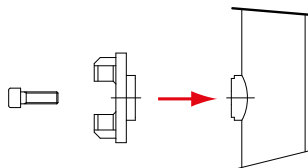


AISI304	AISI316	GLASS THICKNESS A
E00994	E00994316	from 12.76 to 21.52mm

DA VINCI CLAMP SYSTEM - INSTALLATION

1

Fix the adaptor and the back part of the "Da Vinci Clamp" to the tube with an M6 screw



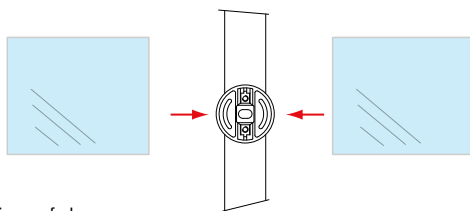
2

Put the rubbers in the appropriate position



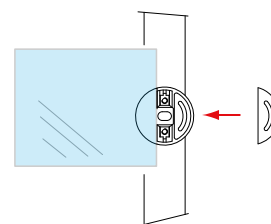
3

Insert the 2 pieces of glass vertically in the clamp



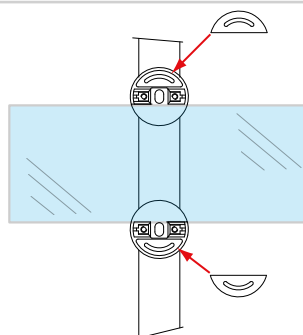
3B

If the glass is needed only on one side, use E00840/C on the opposite side



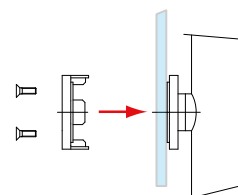
3C

For a more secure railing, rotate the supports horizontally and insert the glass panels between them. Close the unused side of the support using E00840/C



4

Fully fix the support



WARNING

Please retain this brochure particularly the installation manual. Read the instruction manual carefully before assembling and installing the component parts. Always follow the legislation appropriate to the country of installation and for special projects please check local and national building regulations. Fit all parts as indicated in the relevant installation manual. Do not fit or use any products if you have doubts concerning its fitting. Do not use or install the products if you are missing any component pieces. In such cases, please contact your local Service Centre.

CHECKING AND MAINTENANCE

The fitting of any installation must be carried out by skilled workers, following instructions contained in the technical sheets supplied. Regular, periodical maintenance and checking are needed in order to gain and maintain the functionality and efficiency of any installation. Again, inspection and maintenance should only be carried out by competent and skilled workers.

We therefore suggest using only installers recommended by the manufacturer. Failure to do so will result in Aalco refusing all responsibility.

CLEANING INSTRUCTIONS

The use of stainless steel metallic parts guarantees the resistance to different atmospheric conditions. Do not use acids, alkaline solutions, abrasives or corrosive agents to clean the railings.



08 DA VINCI CLAMP SYSTEM

09 ROUND BAR HOLDERS

ROUND BARS

106

ROUND BAR HOLDERS

107 - 109

09 ROUND BAR HOLDERS



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



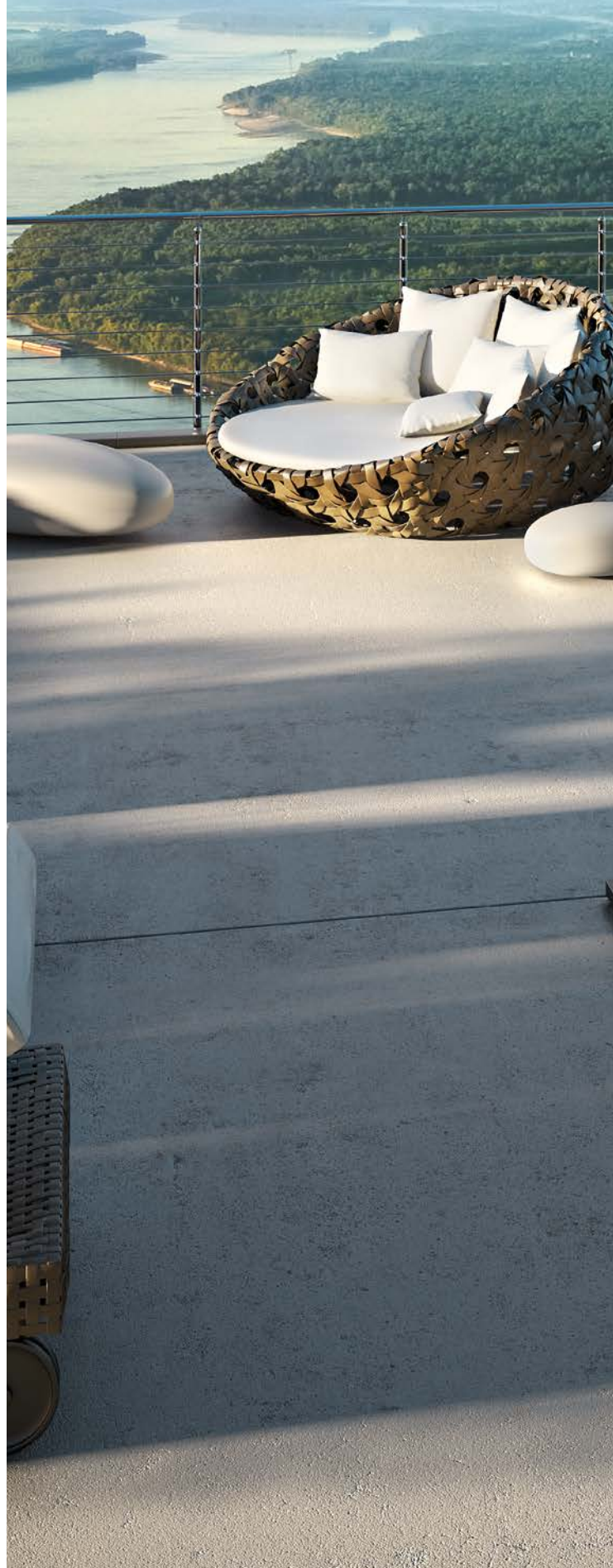
PRODUCT TO BE WELDED




ANTI-CLIMB PRODUCT

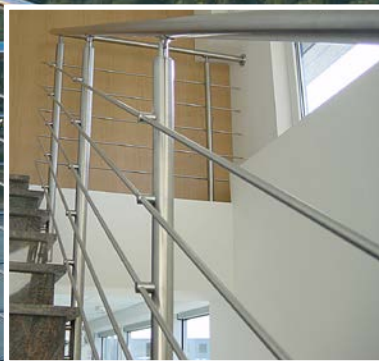


SUPER STRONG, HIGH RESISTANT PRODUCT





Designed to meet different architectural designs is a comprehensive range of modern, elegant bar holders and angle bar holders for both internal and external corners. The holders suit numerous bar diameters and are available in different finishes and designs.



09 ROUND BAR HOLDERS

ROUND BAR HOLDERS - ROUND BARS



Stainless steel, Brushed



In cold galvanized iron, Brushed

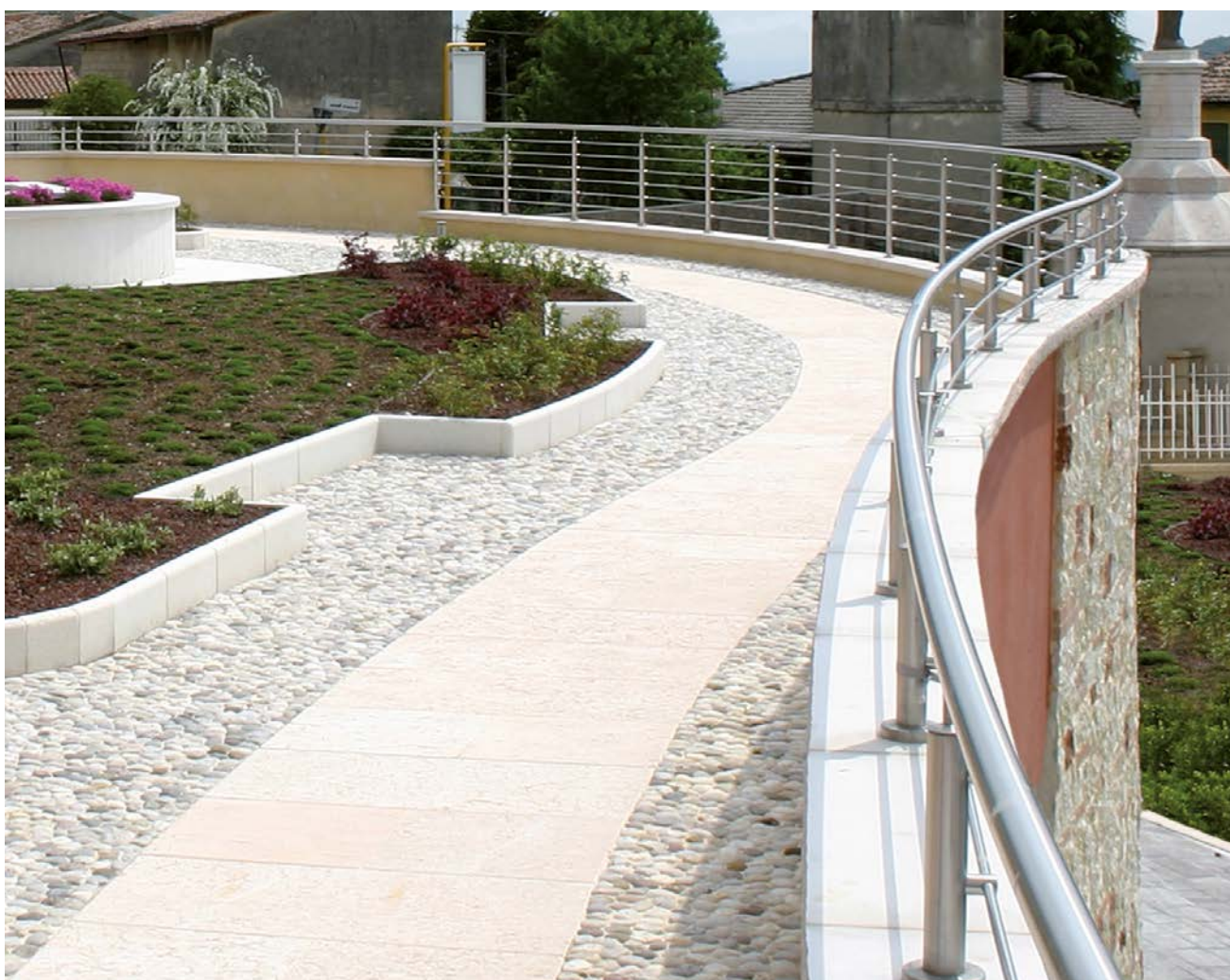
AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
E0052/6000		Ø 8mm	6000mm	2.38kg
E0051	E4850	Ø 10mm	3000mm	1.85kg
E0051/6000	E4850/6000	Ø 10mm	6000mm	3.70kg
E005	E4851	Ø 12mm	3000mm	2.66kg
E005/6000	E4851/6000	Ø 12mm	6000mm	5.32kg
E0050		Ø 14mm	3000mm	3.62kg
E0050/6000		Ø 14mm	6000mm	7.24kg

IRON ZINC	DIMENSIONS	LENGTH	WEIGHT
I005/6000	Ø 12mm	6000mm	5.32kg

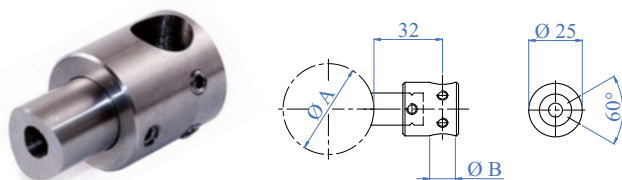


Stainless steel, mirror polished, individually packed

AISI316	DIMENSIONS	LENGTH	WEIGHT
Mirror Polished			
X4851	Ø 12mm	3000mm	2.66kg
X4851/6000	Ø 12mm	6000mm	5.32kg



ROUND BAR HOLDERS



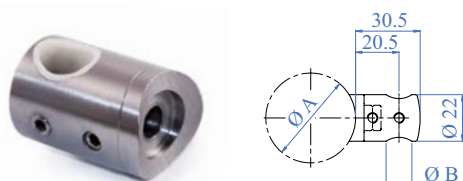
Complete with 2 pieces and threaded lock for rod

AISI303	AISI316	FOR TUBE A	HOLE B	DESCRIPTION
-	E006316	Ø 33.7 - Ø 42.4mm	Ø 12.2mm	Through
E0066	E0066316	Ø 33.7 - Ø 42.4mm	Ø 14.2mm	Through
E0067	-	Ø 33.7 - Ø 42.4mm	Ø 14.2mm	Blind - L
E0068	-	Ø 33.7 - Ø 42.4mm	Ø 14.2mm	Blind - R



Complete with 2 pieces and threaded lock for rod

AISI303	AISI316	FOR TUBE A	HOLE B
E0069101	E0069101316	Ø 33.7mm	Ø 10.2mm through
E006911	E006911316	Ø 33.7mm	Ø 12.2mm through
E0069/38	-	Ø 38.1mm	Ø 12.2mm through
E006910	E006910316	Ø 42.4mm	Ø 10.2mm through
E0069	E4042	Ø 42.4mm	Ø 12.2mm through
E00691	E4040	Ø 42.4mm	Ø 14.2mm through
E006916	-	Ø 48.3mm	Ø 12.2mm through
E006912	E4043	Ø 48.3mm	Ø 14.2mm through
E006917	-	Flat face	Ø 10.2mm through
E00692	E4044	Flat face	Ø 12.2mm through
E006921	-	Flat face	Ø 14.2mm through
Mirror Polished			
X0069	X4042	Ø 42.4mm Ø 43.0mm	Ø 12.2mm through



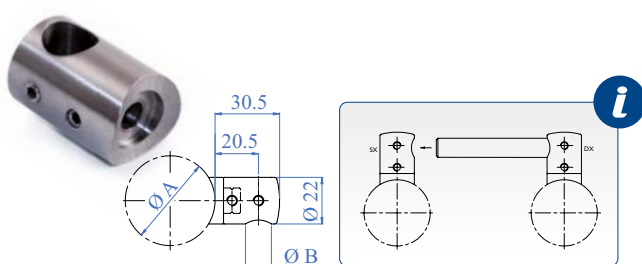
Complete with 2 pieces and threaded lock for rod and teflon spacer

AISI303	AISI316	FOR TUBE A	HOLE B
E006918	E006918316	Ø 42.4mm	Ø 12.2mm through

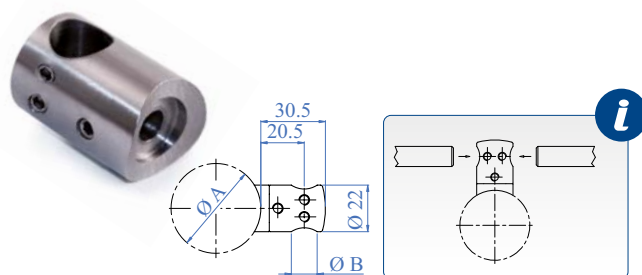


ANTI-SCRATCH BAR HOLDER,
VERY USEFUL WITH PAINTED
RODS

ROUND BAR HOLDERS



AISI303	AISI316	FOR TUBE A	HOLE B
E0069100	E40493	Ø 42.4mm	Ø 12.2mm blind right
E006922	E40492	Ø 42.4mm	Ø 12.2mm blind left
-	E40494	Flat face	Ø 12.2mm blind right
-	E40495	Flat face	Ø 12.2mm blind left



AISI303	AISI316	FOR TUBE A	HOLE B
E00692100	-	Ø 33.7mm	Ø 10.2mm through
-	E40422200	Ø 33.7mm	Ø 12.2mm through
E00693100	-	Ø 42.4mm	Ø 10.2mm through
E00693200	E40423200	Ø 42.4mm	Ø 12.2mm through
E00693400	-	Flat face	Ø 10.2mm through

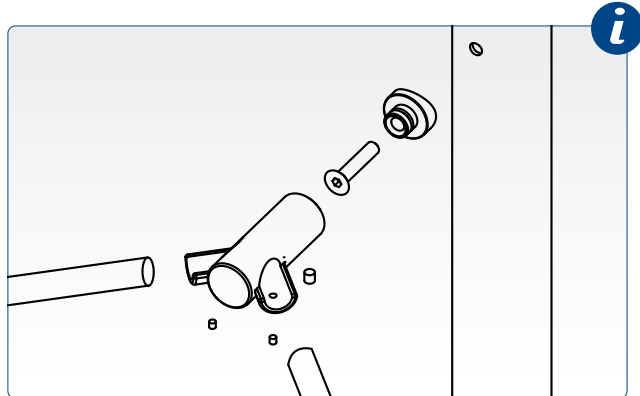
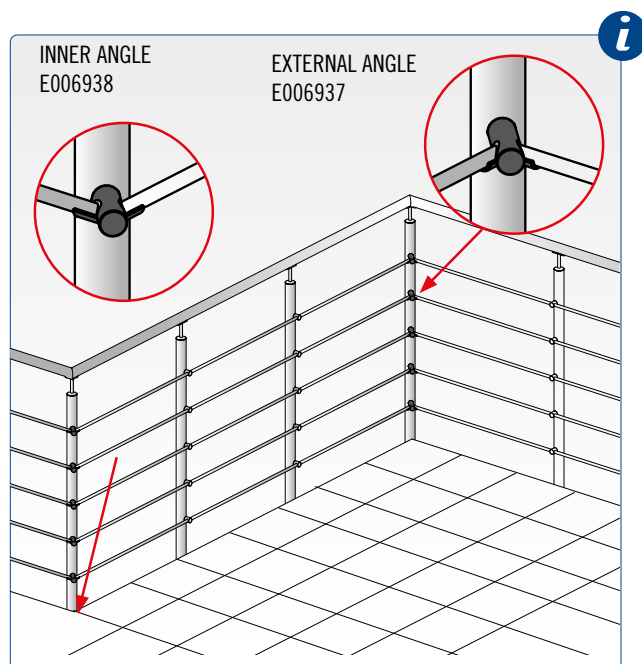
ANGLE ROUND BAR HOLDERS



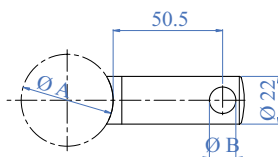
AISI304	FOR TUBE A	B
E006937	Ø 42.4mm	Ø 12mm



AISI304	FOR TUBE A	B
E006938	Ø 42.4mm	Ø 12mm



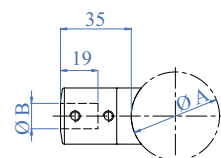
ROUND BAR HOLDERS



Two components, complete with grub screws

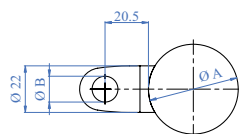
AISI303	FOR TUBE A	HOLE B
E006934	Flat face	Ø 12.2mm

Round



Two components, complete with grub screws

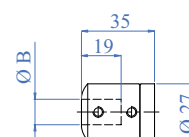
AISI303	AISI316	FOR TUBE A	ROUND BAR B
E01651	E41651	Ø 42.4mm	Ø 12.2mm



Two components, complete with grub screws

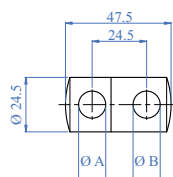
AISI316	FOR TUBE A	HOLE B
E40429100	Ø 33.7mm	Ø 10.2mm

Flat face



Two components, complete with grub screws

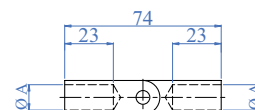
AISI303	AISI316	FOR TUBE	ROUND BAR B
E00654	-	Flat face	Ø 10.2mm
E00651	E40651	Flat face	Ø 12.2mm



Two components, complete with grub screws

AISI303	HOLE A	HOLE B
E006966	Ø 12.2mm	Ø 12.2mm

ADJUSTABLE



AISI303	AISI316	ROUND BAR A
E0170	E0170316	Ø 12mm
E0172	-	Ø 10mm

10 WIRE ROPE SYSTEM

WIRE ROPES	112
WIRE ACCESSORIES	112 - 118
EXAMPLES OF APPLICATIONS	119
ASSEMBLY ACCESSORIES	119

10 WIRE ROPE SYSTEM



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



This system is extremely modular and easy to install. Originally it was used in marine applications but has recently become the leading system in many modern architectural settings.

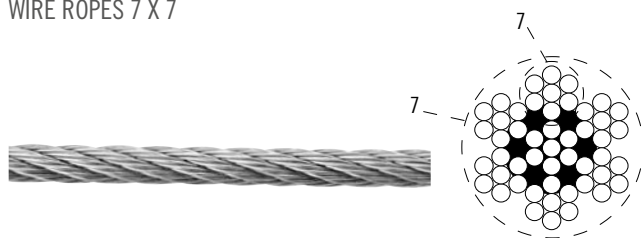
Very simple to assemble, the ROPE SYSTEM ensures topical solutions that fit perfectly in a range of different environments



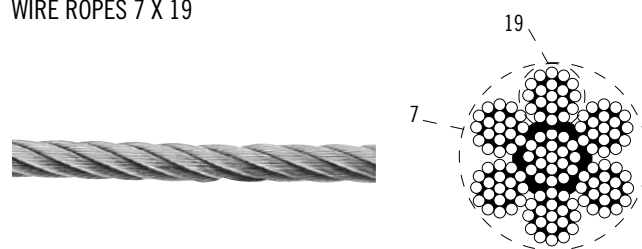
10 WIRE ROPE SYSTEM

WIRE ROPE SYSTEM

WIRE ROPES 7 X 7



WIRE ROPES 7 X 19



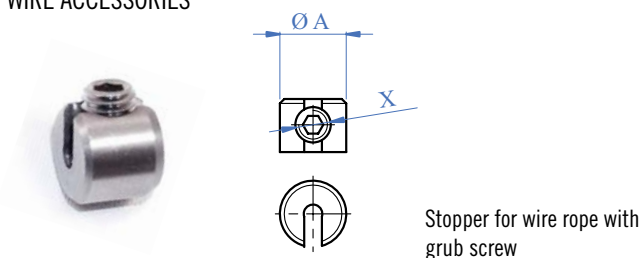
Stainless steel ropes

AISI316	ROPE	MINIMUM BREAK LOAD
EF7X704	Ø 4mm	9.00 kN
EF7X705	Ø 5mm	14.00 kN
EF7X706	Ø 6mm	20.00 kN

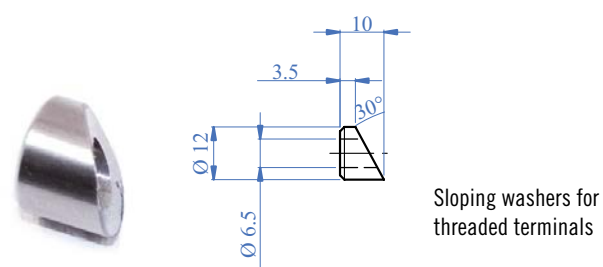
Stainless steel ropes

AISI316	ROPE	MINIMUM BREAK LOAD
EF7X1904	Ø 4mm	8.50 kN
EF7X1905	Ø 5mm	14.00 kN
EF7X1906	Ø 6mm	20.00 kN

WIRE ACCESSORIES



AISI303	AISI316	ROPE	X	Ø A
EA04	EA04316	Ø 4mm	M8	Ø 15mm
EA05	EA05316	Ø 5-6mm	M6	Ø 20mm

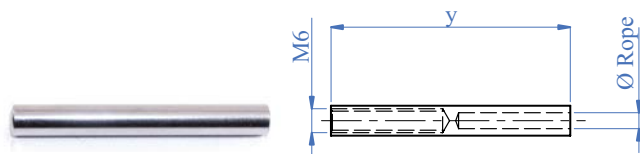


AISI303	AISI316	FOR TUBE	HOLE
EB061	EB061316	Ø 42.4mm	Ø 6.5mm
EB063	EB063316	Flat face	Ø 6.5mm



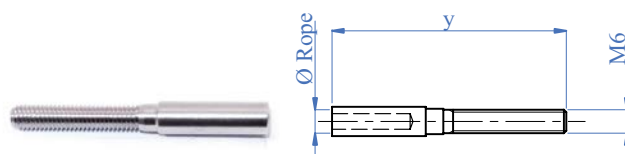
AISI303	AISI316	FOR TUBE	HOLE
EB071	-	Ø 42.4mm	Ø 8.5mm
EB073	EB073316	Flat face	Ø 8.5mm

WIRE ROPE SYSTEM



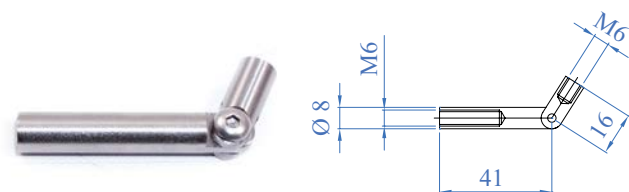
Threaded inside terminal

AISI316	SIDE	ROPE	y
ETF04SX	Left	Ø 4mm	60mm
ETF05SX	Left	Ø 5mm	60mm
ETF06SX	Left	Ø 6mm	70mm
ETF04DX	Right	Ø 4mm	60mm
ETF05DX	Right	Ø 5mm	60mm
ETF06DX	Right	Ø 6mm	70mm



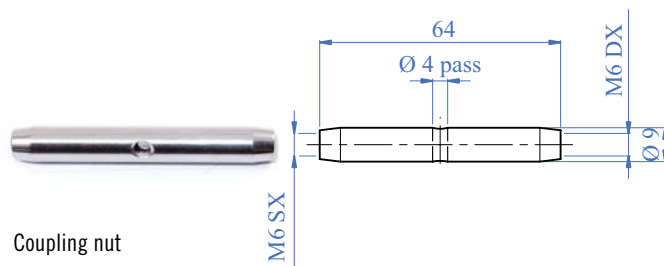
Threaded terminal

AISI316	SIDE	ROPE	y
ETM04SX	Left	Ø 4mm	60mm
ETM05SX	Left	Ø 5mm	60mm
ETM06SX	Left	Ø 6mm	70mm
ETM04DX	Right	Ø 4mm	60mm
ETM05DX	Right	Ø 5mm	60mm
ETM06DX	Right	Ø 6mm	70mm



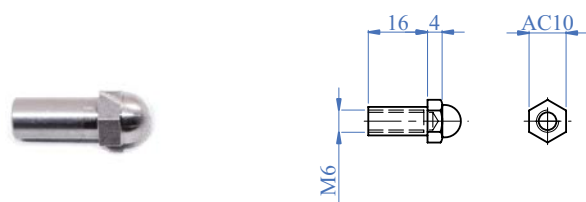
Adjustable connector

AISI303	AISI316	DESCRIPTION
ED05	ED05316	Adjustable ropes with 2 M6 thread



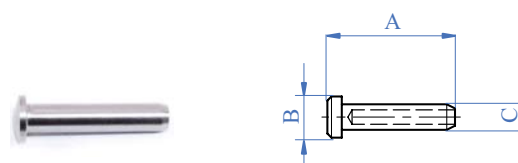
Coupling nut

AISI316	DESCRIPTION
ET06	Domed head nut right-hand thread M6



Finial with hexagonal head

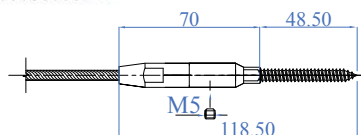
AISI316	DESCRIPTION
ED06	Domed head nut right-hand thread M6
ED06SX	Domed head nut left-hand thread M6



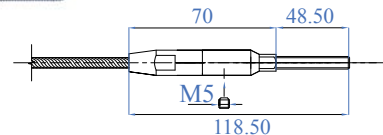
Terminal with hexagonal head, to be crimped

AISI303	AISI316	ROPE	A	B	C
ETTB04304	ETTB04	Ø 4mm	31mm	10mm	6.5mm
ETTB05304	ETTB05	Ø 5mm	40mm	12mm	7.8mm
-	ETTB06	Ø 6mm	44mm	14mm	9mm

WIRE ROPE SYSTEM

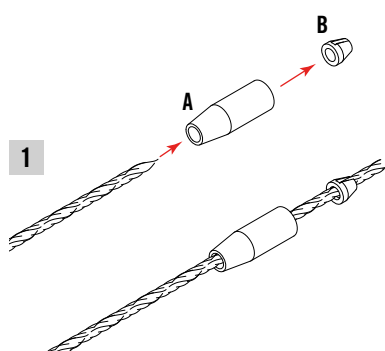


Threaded terminal for wood

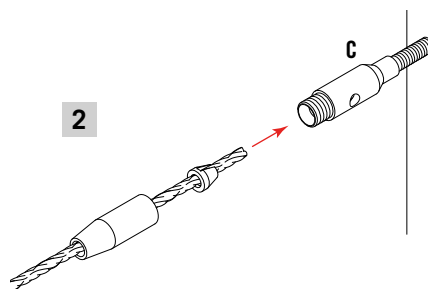


AISI316	DESCRIPTION	ROPE
ETSM3010	Right hand thread	Ø 4-5-6mm
ETSM3010/SX	Left hand thread	Ø 4-5-6mm

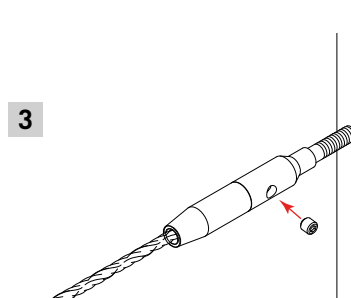
AISI316	ROPE
ETSM3000	Ø 4-5-6mm



1 INSERT THE CABLE AS SHOWN THROUGH PARTS A AND B



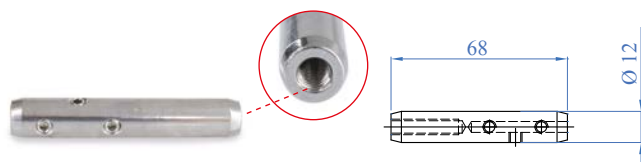
2 JOIN THE ELEMENTS WITH PART C



3 FIX ETSM3000 WITH THE SOCKET HEAD SCREW SUPPLIED

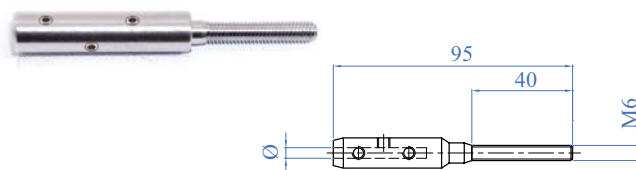
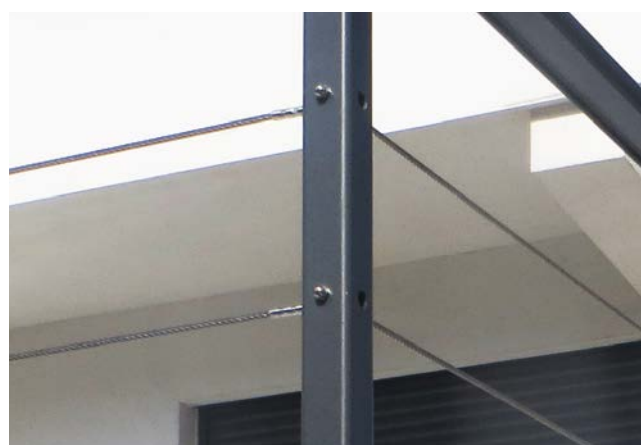


WIRE ROPE SYSTEM

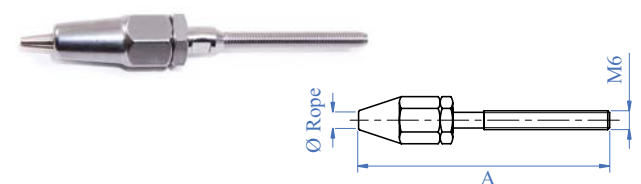
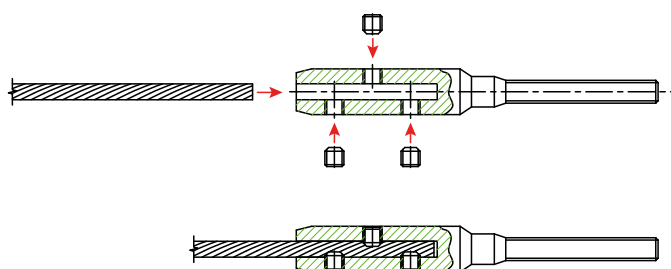


Left and right female end fitting, with M6 thread

AISI316	DESCRIPTION	ROPE
ETFTS04DX	Right-hand thread	Ø 4mm
ETFTS04SX	Left-hand thread	Ø 4mm
ETFTS05DX	Right-hand thread	Ø 5mm
ETFTS05SX	Left-hand thread	Ø 5mm
ETFTS06DX	Right-hand thread	Ø 6mm
ETFTS06SX	Left-hand thread	Ø 6mm



AISI316	DESCRIPTION	ROPE
ETS4	Right-hand thread	Ø 4mm
ETS5	Right-hand thread	Ø 5mm
ETS6	Right-hand thread	Ø 6mm



Swageless thread terminal M6

AISI316	ROPE	THREAD	NUT	A
ETSM8	Ø 4mm	M6	M8	90mm
ETSM10	Ø 5mm	M6	M10	107mm
ETSM12	Ø 6mm	M6	M12	119mm

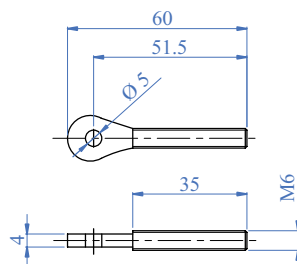
- INSERT THE CABLE THROUGH THE POINT OF ETSM8
- UNROLL THE CABLE AND INSERT THE NOSE OF THE CENTRAL PART OF THE CABLE
- ROLL AROUND TO FORM ONE PIECE AND INSERT CABLE INTO THE POINT OF ETSM8
- SCREW IN THE FINAL PART OF ETSM8
- BLOCK WITH THE ENCLOSED NUT

WIRE ROPE SYSTEM

WIRE ACCESSORIES



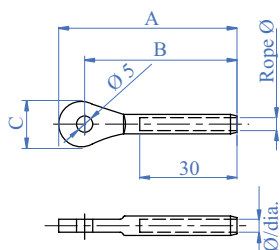
Threaded eye stud M6



AISI316	DESCRIPTION
ETFM06DX	Right-hand thread



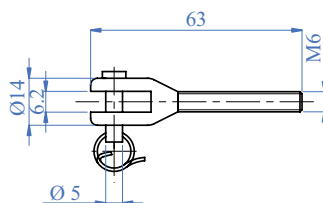
Eye terminal to crimp



AISI316	ROPE	A	B	C	Ø/dia.
ETFF05	Ø 5mm	55mm	48mm	13.5mm	8mm
ETFF06	Ø 6mm	56.5mm	48mm	14mm	9mm



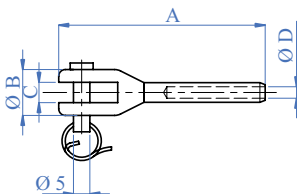
Threaded fork stud M6



AISI316	DESCRIPTION
ETMT06DX	Right-hand thread
ETMT06SX	Left-hand thread



Fork terminal to crimp



AISI316	ROPE	A	Ø B	C	Ø D
ETFT05	Ø 5mm	63mm	14mm	6.5mm	7.5mm
ETFT06	Ø 6mm	63mm	14mm	6.5mm	9mm

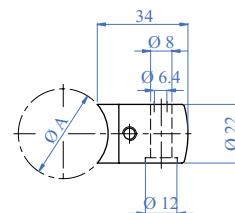
Shearing tool for wire ropes up to Ø 8mm



Code No
E40690

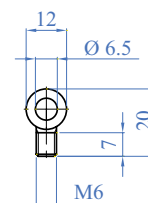


AISI316	NUT
EDADM602	M6 right thread
EDADM602SX	M6 left thread



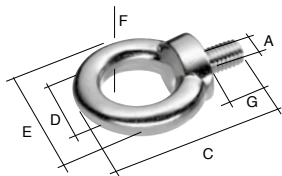
Terminal supports for external wire rope

AISI303	AISI316	FOR TUBE A	ROPE
EST041DX	EST051DX	Ø 42.4mm	Ø 4-5-6mm
EST041SX	EST051SX	Ø 42.4mm	Ø 4-5-6mm

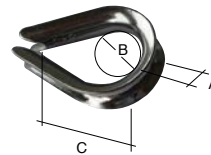


AISI316	ROPE
E1106	Ø 4-5-6mm

WIRE ROPE SYSTEM



Ring bolt



Thimble

AISI304	A	C	D	E	F	G	MkN
E8463591	M8	49mm	20mm	36mm	8mm	13mm	1.0 kN

AISI304	Ø	A	B	C
E8402009	5mm	9mm	16mm	25mm

Aalco offers a custom rope service by using specific equipment that enables the company to cut and crimp the rope exactly as your project requires. Simply complete the order form below and email to your local service centre



Loop with thimble and press sleeve

1

Which rope?

ROPE	A	B	C	D
Ø 4mm	8mm	13mm	20mm	9mm
Ø 5mm	9mm	16mm	25mm	11mm
Ø 6mm	10mm	18mm	28mm	13mm

☐ Ø 4mm
☐ Ø 5mm
☐ Ø 6mm

2

Which version?

☐
☐

3

What length?

☐ X1 _____ mm
☐ X2 _____ mm

4

Quantity?

NO. _____

NO. _____

Loop with press sleeve

1

Which rope?

ROPE	A	B	C
Ø 4mm	60mm	20mm	8mm
Ø 5mm	75mm	25mm	9mm
Ø 6mm	90mm	30mm	12mm

☐ Ø 4mm
☐ Ø 5mm
☐ Ø 6mm

2

Which version?

☐
☐

3

What length?

☐ X1 _____ mm
☐ X2 _____ mm

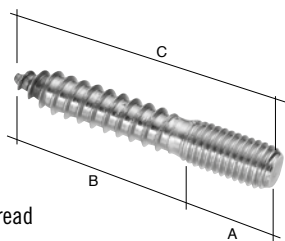
4

Quantity?

NO. _____

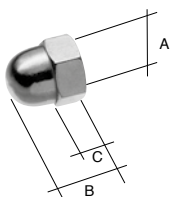
NO. _____

WIRE ROPE SYSTEM



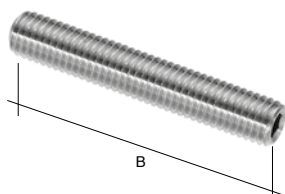
Dowel screw with thread

AISI304 R-hand thread	AISI304 L-hand thread	EXTERNAL THREAD	A	B	C
E8461156	-	M5	20mm	30mm	50mm
E8461158	E8461159	M6	30mm	44mm	74mm
E8461160	-	M8	40mm	60mm	100mm



Cap nut

AISI304	RIGHT-HAND THREAD	A	B	C
E8449240	M6	12mm	10mm	6mm
E8449241	M8	15mm	13mm	8.5mm
E8449242	M10	18mm	17mm	10mm



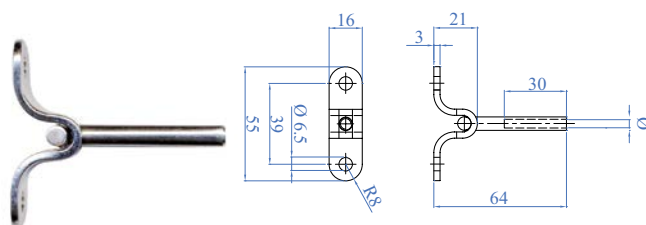
Grub screw

AISI304 R-hand thread	AISI304 L-hand thread	EXTERNAL THREAD	B
E8461132	E8461133	M6	40mm

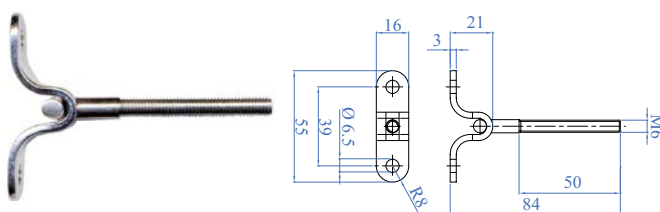


Hexagonal nut

AISI304 R- hand thread	AISI304 L- hand thread	INSIDE THREAD	A	B
E8439656	E8449454	M6	5mm	10mm



AISI316	ROPE Ø
EMM04	Ø 4mm
EMM05	Ø 5mm
EMM06	Ø 6mm

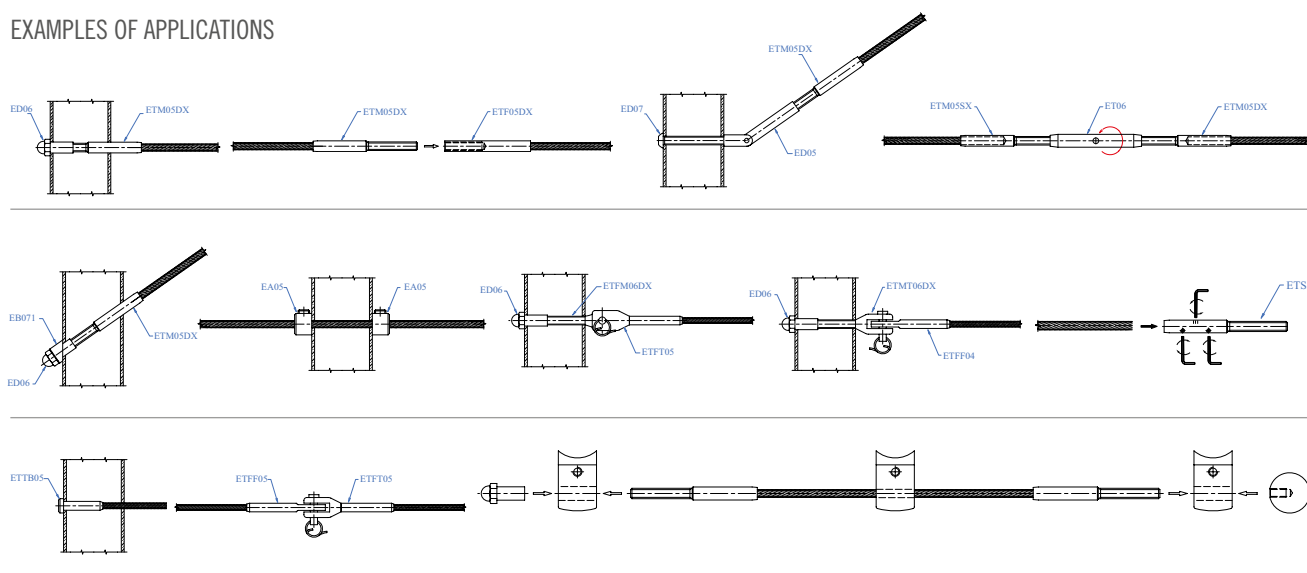


AISI316	ROPE
EMMF06DX	Right-hand thread
EMMF06SX	Left-hand thread



WIRE ROPE SYSTEM

EXAMPLES OF APPLICATIONS



ROPE SYSTEM ASSEMBLY ACCESSORIES

Code No.

E40680

Portable hydraulic battery tool with pivotable head for pressing wire ropes.

Kit composed of:

- basic tool with battery, wrist strap and shoulder strap
- spare battery
- battery charger

ALSO AVAILABLE TO HIRE



Code No.

E40685

Manual hydraulic crimping tool to press wire ropes. Light and easy to use.

Generated force: 50 kN



10 WIRE ROPE SYSTEM

11 NEWEL POSTS

NEWEL POSTS - ROUND	122
NEWEL POSTS - SQUARE	123
NEWEL POSTS - DRILLING TEMPLATE	124

11 NEWEL POSTS



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



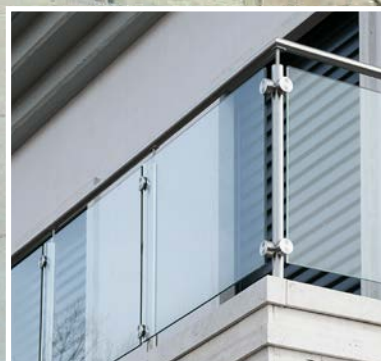
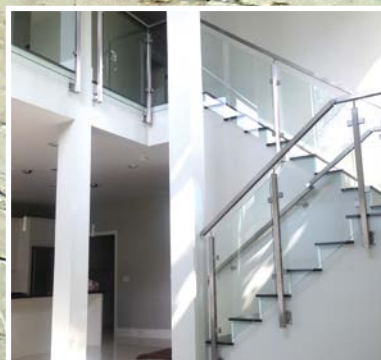
ANTI-CLIMB PRODUCT



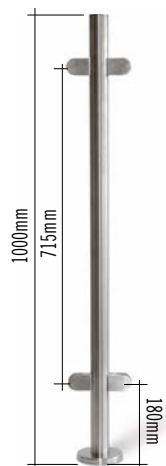
SUPER STRONG, HIGH RESISTANT PRODUCT



We offer a wide range of pre-assembled newel posts that make installation easier and therefore more cost effective. In addition to the standard products, also available are customised newel posts in various sizes and to customer specifications. The range includes various finishes and can be powder coated to any colour in the RAL chart, offering not only aesthetic benefits but improved performance in external applications.



NEWEL POSTS - ROUND

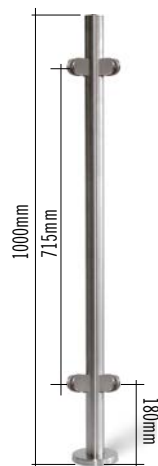


AISI304	AISI316	Ø NEWEL POST
Satin Finish		
EC24204P	EC44204P	42.4 x 2.0mm
Mirror Polished		
-	XC44204P	42.4 x 2.0mm
-	XC44304P	43.0 x 1.5mm

Complete with 4 glass clamps, mounting plate and flange canopy



FOR THESE POSTS USE MODEL 16 CLAMPS 40 x 50mm WITH RUBBERS FOR GLASS 8.76 AND 10.76mm

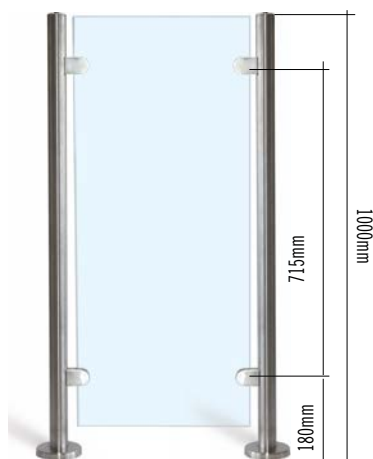


AISI304	AISI316	Ø NEWEL POST
Satin Finish		
EC24204P90	EC44204P90	42.4 x 2.0mm
Mirror Polished		
-	XC44304P90	43.0 x 1.5mm

Complete with 4 glass clamps with 90° angle, mounting plate and flange canopy

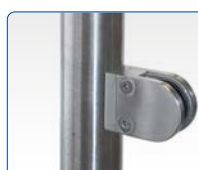


FOR THESE POSTS USE MODEL 16 CLAMPS 40 x 50mm WITH RUBBERS FOR GLASS 8.76 AND 10.76mm



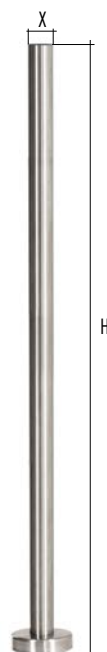
AISI304	AISI316	Ø NEWEL POST
Satin Finish		
EC24202P	EC44202P	42.4 x 2.0mm
Mirror Polished		
-	XC44202P	42.4 x 2.0mm
-	XC44302P	43.0 x 1.5mm

Complete with 2 glass clamps, mounting plate and flange canopy



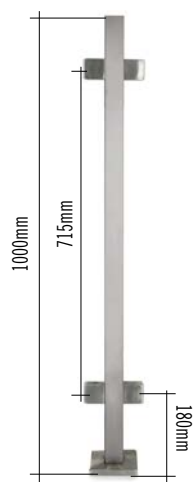
FOR THESE POSTS USE MODEL 16 CLAMPS 40 x 50mm WITH RUBBERS FOR GLASS 8.76 AND 10.76mm

Posts with reinforced base for higher resistance and security.



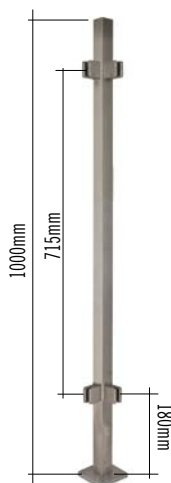
AISI316	X	H
E033610014	42.4 x 2.0mm	1000mm
E033610015	42.4 x 2.6mm	1000mm
E033610016	48.3 x 2.0mm	1000mm
E033610017	48.3 x 2.6mm	1000mm

NEWEL POSTS - SQUARE



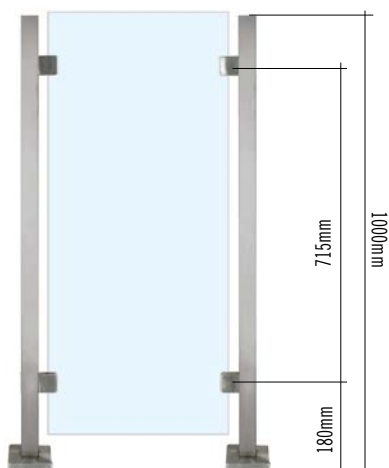
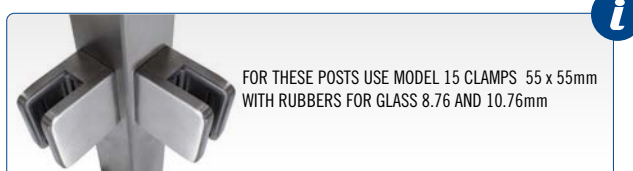
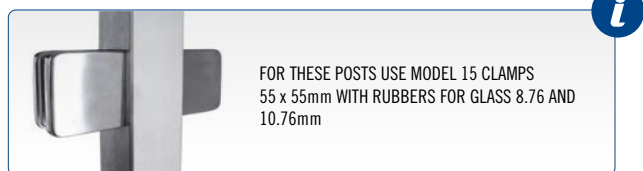
AISI304	AISI316	NEWEL POST
Satin Finish		
EQ54004P	EQ64004P	40mm
Mirror Polished		
-	XQ64004P	40mm

Complete with 4 glass clamps, mounting plate and flange canopy



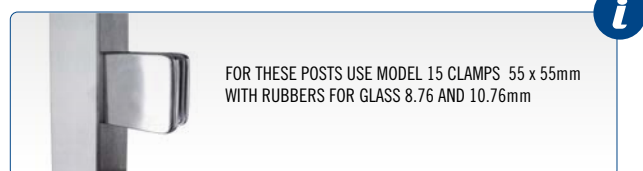
AISI304	AISI316	NEWEL POST
Satin Finish		
EQ54004P90	EQ64004P90	40mm
Mirror Polished		
-	XQ64004P90	40mm

Complete with 4 glass clamps with 90° angle, mounting plate and flange canopy



AISI304	AISI316	NEWEL POST
Satin Finish		
EQ54002P	EQ64002P	40mm
Mirror Polished		
-	XQ64002P	40mm

Complete with 2 glass clamps, mounting plate and flange canopy



11 NEWEL POSTS - SQUARE

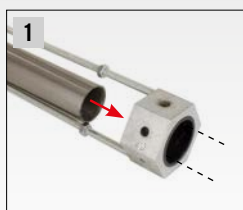
NEWEL POSTS - DRILLING TEMPLATE



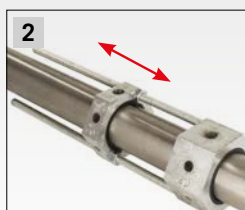
Code No.

E40580

Drilling template, patented for tubes \varnothing 33.7 - 42.4 - 48.3mm.
Allows \varnothing 7 - 9 - 11mm holes to be drilled for threaded inserts and holes for
M5 - M6 - M8 threadings



Place the tube inside the template



Insert the second accessory and adjust it according to the selected spacing of the holes. Lock it with the supplied nuts



Drill the first hole



Drill the second hole. For safety, lock the template with a drill bit or other tool



Place the template to execute the subsequent holes. Lock it by putting a drill bit in the hole just drilled





11 NEWEL POSTS

12 ANCHORAGE FITTINGS

ANCHORAGE FITTINGS	128
RISKLESS	129
LATERAL	130 - 131
DISCS & FLANGES	132 - 133

12 ANCHORAGE FITTINGS



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



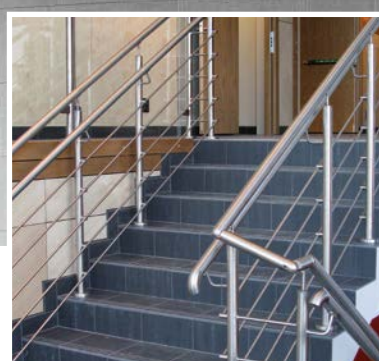
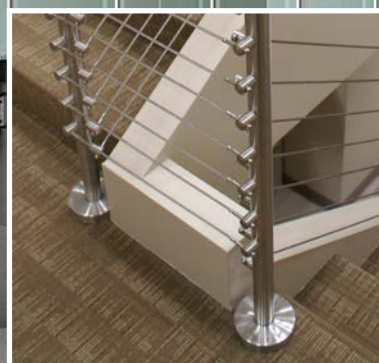
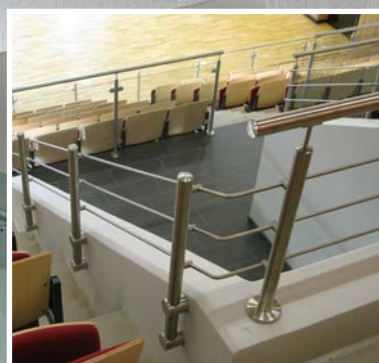
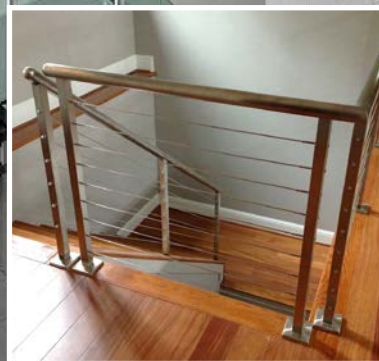
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



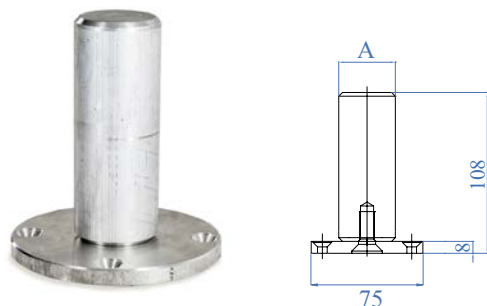
We supply a comprehensive range of anchorage fittings, including baseplates and covers, flanges and shaped flanges in various sizes, designs and finishes. All designed to enable ease of assembly, the fittings are strong and meet the planning and aesthetic requirements of varied applications. Included in the range is the Riskless system, reinforced to strengthen the anchorage points of the newel post in a vertical installation. The system has been devised in accordance with the regulations regarding rail safety, with in-depth studies and calculations to produce a system with enhanced rigidity.



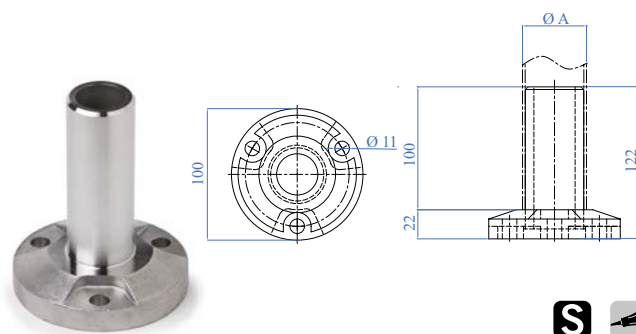
12 ANCHORAGE FITTINGS

ANCHORAGE FITTINGS

Floor anchoring with aluminium reinforcement

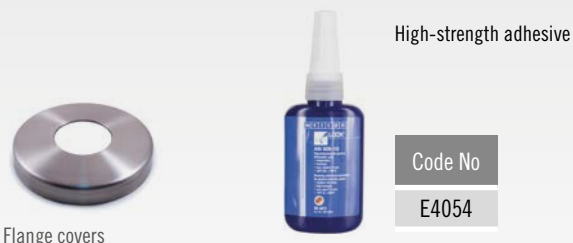


ALUMINIUM	DIMENSIONS	A	FOR TUBE
E021400	Ø 75 x 8mm - 4 holes Ø 6.5mm	Ø 38mm	Ø 42.4 x 2.0mm



AISI316	FOR TUBE A
E40310	Ø 42.4 x 2.0mm
E40310/26	Ø 42.4 x 2.6mm
E40320	Ø 48.3 x 2.0mm
E40320/26	Ø 48.3 x 2.6mm

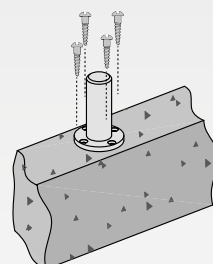
PRODUCTS TO BE USED TOGETHER WITH E021400



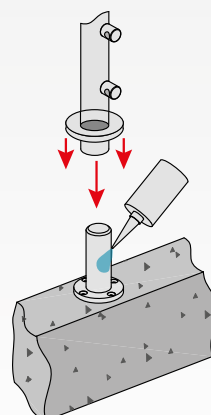
Flange covers

AISI304	AISI316	DIMENSIONS	HOLE	HEIGHT
E0191	-	Ø 85mm	Ø 34.5mm	15mm
E019	E019316	Ø 85mm	Ø 43.0mm	15mm
E020	E4072	Ø 105mm	Ø 43.0mm	15mm

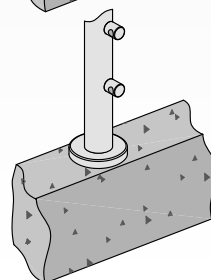
This anchor system makes the post stronger, particularly on shallower floors



- 1 Fix the anchorage to the floor



- 2 Apply a layer of adhesive and then position the post with the flange canopy

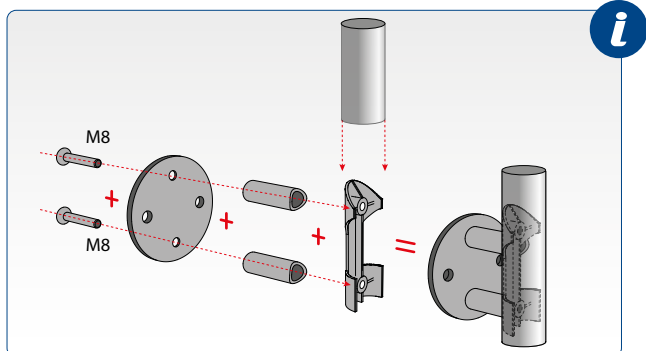


ANCHORAGE FITTINGS - RISKLESS

E400/C has been devised in accordance with current legislation on railing safety. After an in-depth study and extensive calculations, E400/C can be installed laterally to strengthen the anchoring points of the post, making the entire structure more rigid, more resistant and therefore safer.

Installation with traditional flange

Installation with reinforced flange E400/C



+15% MORE RESISTANT THAN THE PREVIOUS MODEL.

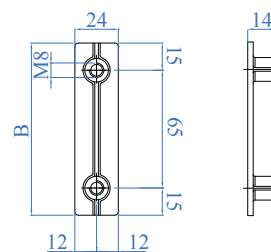
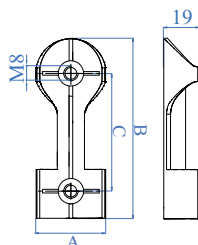
Better adhesion of article E400/C to the tube, thanks to the strengthening elements on the perimeter wall.

Quick and easy to insert, thanks to its rounded form, which allows an easier insertion.

Greater safety and resistance, through deeper screw threads and a structure which is much bigger than typical anchoring systems.

Easy to move and to remove in the event of incorrect installation as it is easier to grip.

Greater rigidity, due to the strengthening element in the middle.

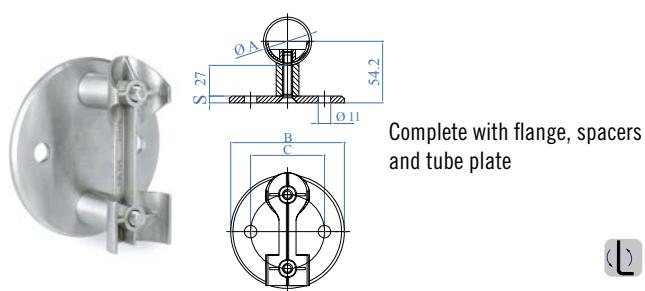


AISI304	FOR TUBE A	B	C
E400/C	Ø 42.4 x 2.0mm	99mm	65mm
E408	Ø 42.4 x 2.0mm	134mm	100mm

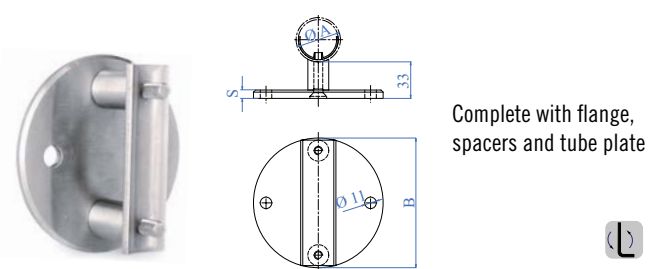
AISI304	FOR TUBE A	B
E409	40 x 40mm	95mm

12 ANCHORAGE FITTINGS - RISKLESS

ANCHORAGE FITTINGS - LATERAL

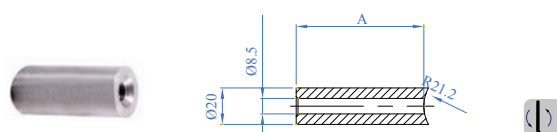


AISI304	AISI316	FOR TUBE A	B	C	S
E113	E113316	Ø 42.4 x 2.0mm	Ø 100mm	65mm	6mm
E111	-	Ø 42.4 x 2.0mm	Ø 125mm	100mm	8mm
-	E1110316	Flat face	Ø 100mm	65mm	6mm
Mirror Polished					
-	X113316	Ø 42.4 x 2.0mm Ø 43.0 x 1.5mm	Ø 100mm	65mm	6mm



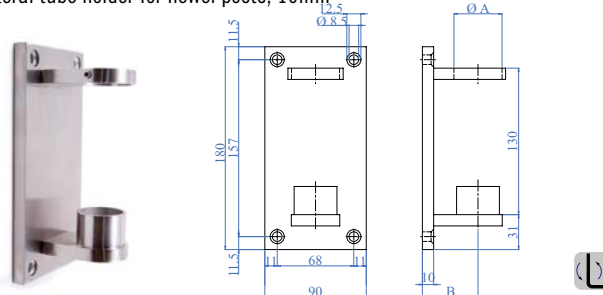
AISI304	FOR TUBE A	B	C
E113/337	Ø 33.7 x 2.0mm	Ø 100mm	6mm

Extra spacer for item E113



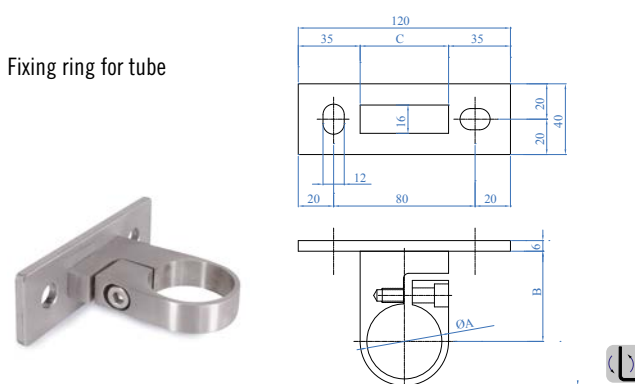
AISI304	FOR TUBE	A
E2300/50	Ø 42.4 x 2.0mm	50mm
E2300/70	Ø 42.4 x 2.0mm	70mm

Lateral tube holder for newel posts, 10mm



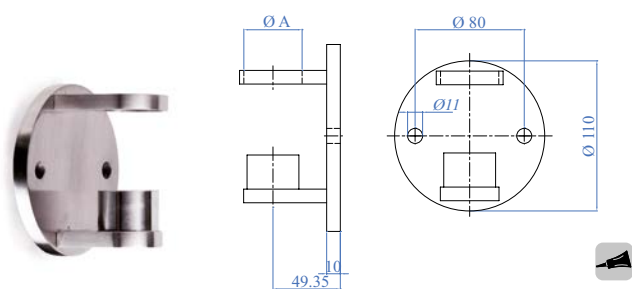
AISI304	AISI316	FOR TUBE A	B
E406/304	E406	Ø 42.4 x 2.0mm	49mm
-	E407	Ø 48.3 x 2.0mm	57mm

Fixing ring for tube



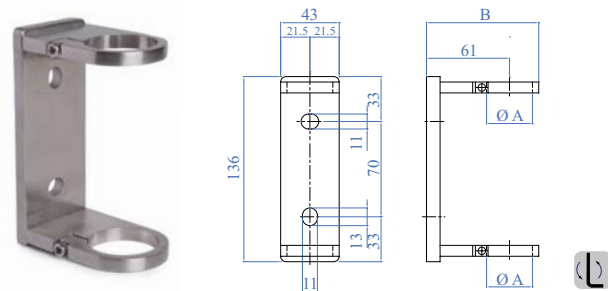
AISI304	FOR TUBE A	B	C
E11740	Ø 42.4mm	51mm	51mm
E11760	40 x 40mm	59mm	48mm

ANCHORAGE FITTINGS - LATERAL



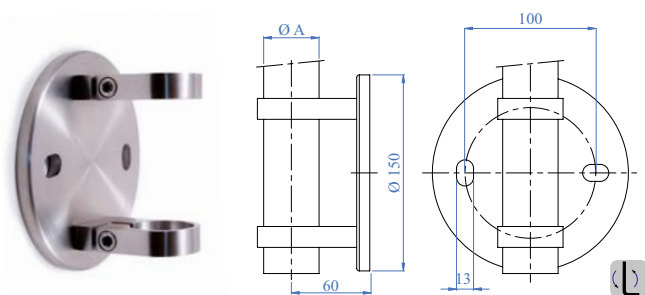
AISI316 FOR TUBE A

E40350	Ø 42.4 x 2.0mm
E40350/26	Ø 42.4 x 2.6mm
E40360/26	Ø 48.3 x 2.6mm



AISI316 FOR TUBE A

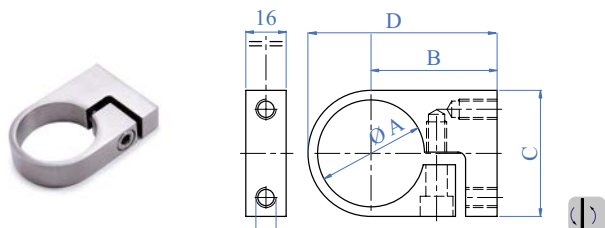
	FOR TUBE A	B
E116200	Ø 42.4mm	84mm
E116300	40 x 40mm	84mm



AISI304 AISI316 FOR TUBE A

E116	E116316	Ø 42.4mm
E118	-	Ø 48.3 x 2.0mm

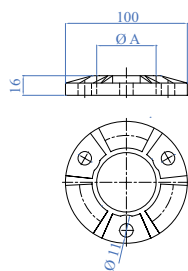
Fixing ring for tube



AISI304 FOR TUBE A

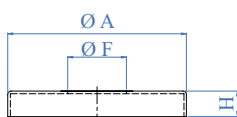
	FOR TUBE A	B	C	D
E117	Ø 42.4mm	51mm	50mm	76mm
E11710	Ø 48.3mm	59mm	55mm	87mm
E11720	40 x 40mm	59mm	48mm	83mm

ANCHORAGE FITTINGS - DISCS & FLANGES



AISI316	DIMENSIONS	EXTERNAL HOLES	CENTRAL HOLE A
E40820	Ø 100 x 16mm	3 x Ø 11mm	Ø 43mm
E40830	Ø 100 x 16mm	3 x Ø 11mm	Ø 49mm

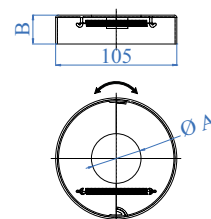
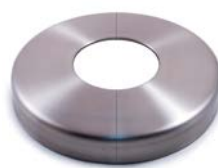
FLANGE COVERS



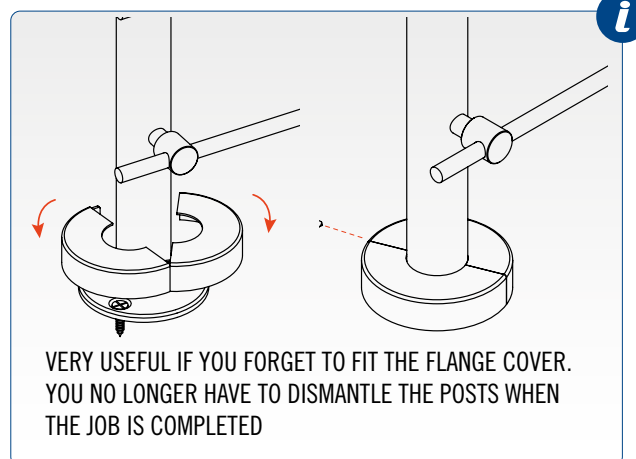
Satin finish with grain size 240, thickness 1.5mm

AISI304	AISI316	DIMENSION A	HOLE F	HEIGHT H
E020/C	E4072/C	Ø 105mm	Ø 43.0mm	25mm
E0201/C	E4073	Ø 105mm	Ø 49.0mm	25mm
E02011	-	Ø 105mm	Ø 51.50mm	25mm
E0203	-	Ø 129mm	Ø 43.0mm	25mm
E0204	E4075	Ø 129mm	Ø 49.0mm	25mm
-	E4076	Ø 145mm	Ø 49.0mm	25mm

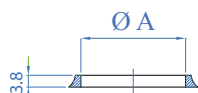
Flange canopy that can be opened



AISI304	AISI316	FOR TUBE A	B
E02071	E02071316	Ø 42.4 - 43.0mm	25mm
E02072	E02072316	Ø 48.3mm	25mm

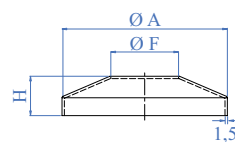
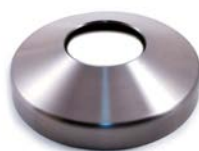


ANCHORAGE FITTINGS - DISCS & FLANGES

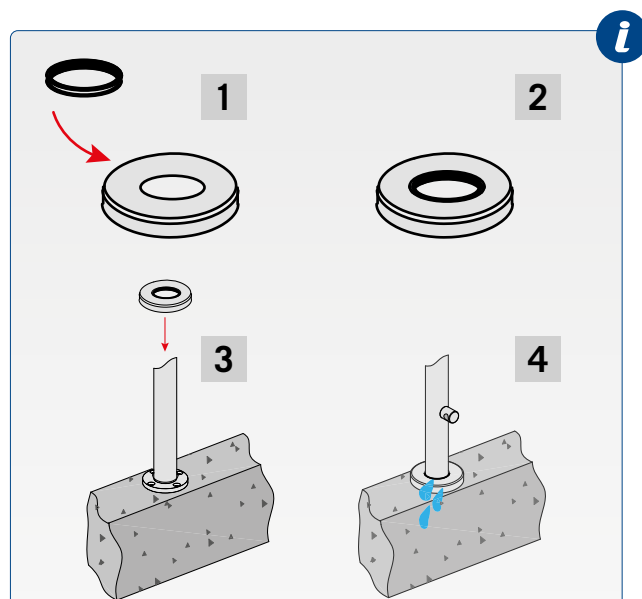


Transparent rubber gasket

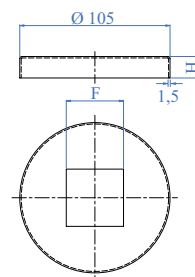
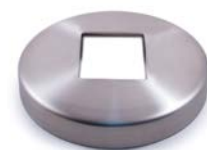
RUBBER	FOR TUBE A	QUANTITY PER BOX
E02081	Ø 42.4 x 2.0mm	10 pcs.
E02082	Ø 48.3 x 2.0mm	10 pcs.



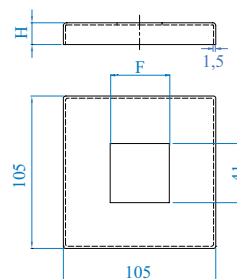
AISI304	AISI316	DIMENSION A	HOLE F	HEIGHT H
E02062	E02062316	85mm	Ø 43.0mm	25mm
E02064	-	105mm	Ø 43.0mm	25mm



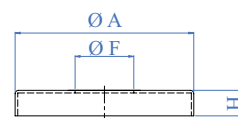
INSERT THE RUBBER GASKET INSIDE THE FLANGE COVER, TO PREVENT MOISTURE INGRESS.



AISI304	DIMENSION	HOLE F	HEIGHT H
E02051	Ø 105mm	41 x 41mm	15mm



AISI304	AISI316	DIMENSIONS	HOLE F	HEIGHT H
E02052	E02052316	105 x 105mm	41 x 41mm	15mm



Satin finish with grain size 240, thickness 1.5mm

AISI304	AISI316	DIMENSIONS A	HOLE F	HEIGHT H
E0180	-	Ø 45mm	Ø 12.5mm	10mm
E0185	E0185316	Ø 70mm	Ø 12.5mm	12mm
E0182	E4070	Ø 76mm	Ø 12.5mm	12mm

13 TUBE & BAR

STAINLESS STEEL TUBES

136

ROUND BAR

137

SQUARE TUBE & FLAT BAR

138

13 TUBE & BAR



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



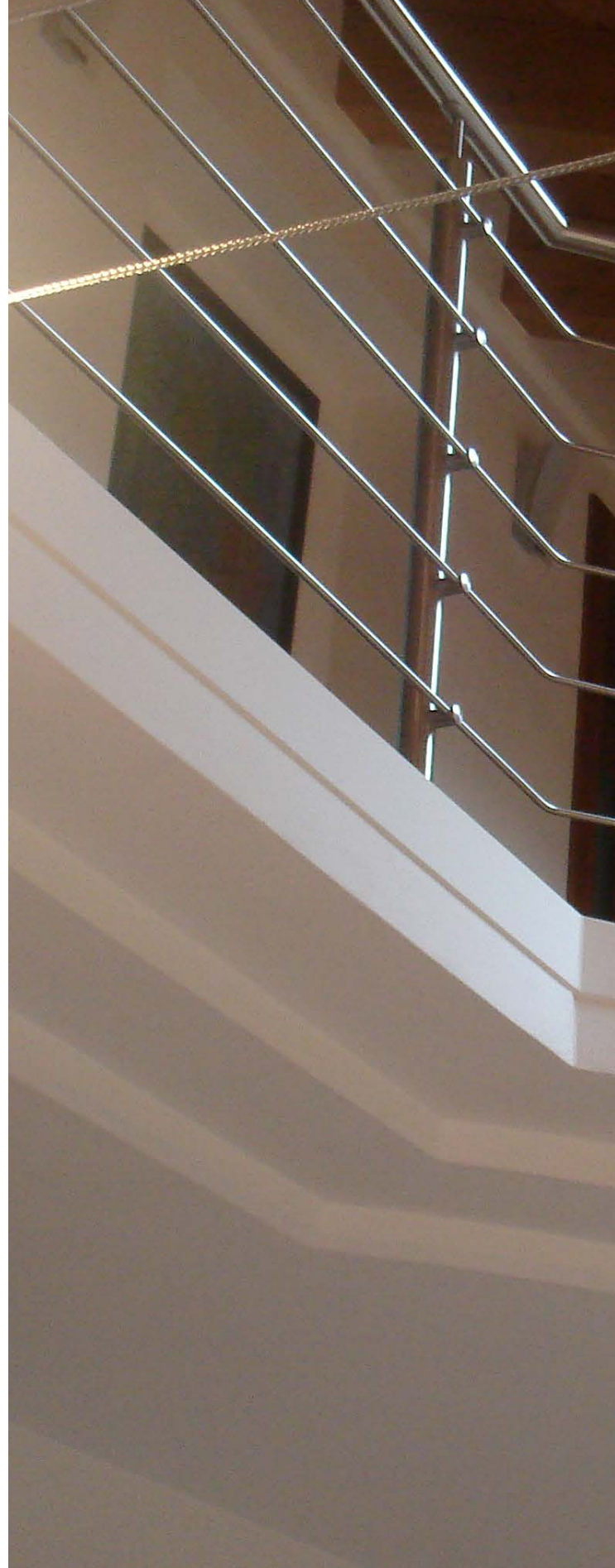
PRODUCT TO BE WELDED



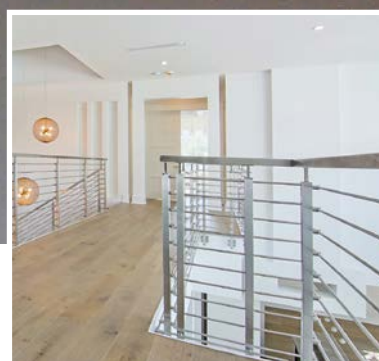
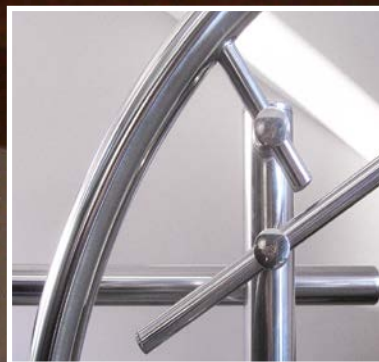
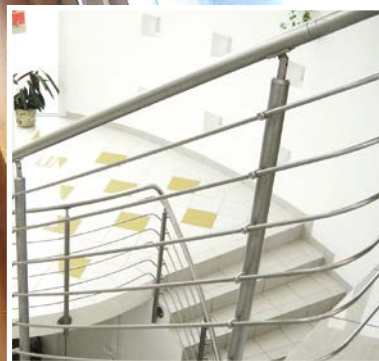
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



We stock a comprehensive range of tube, round bars and flat bars in a variety of materials and sizes. From stainless steel in satin and mirror finish to galvanised iron, we offer high quality products that are ideally suited to staircase, balustrade and railing applications.



TUBE & BAR - STAINLESS STEEL TUBES



Stainless steel, satin finish, with grain size 320, individually packed

		DIMENSIONS	LENGTH
AISI304	AISI316	Ø 42.4 x 2.0mm	6000mm
AISI304	AISI316	Ø 42.4 x 2.6mm	6000mm
AISI304	AISI316	Ø 48.3 x 2.0mm	6000mm
AISI304	AISI316	Ø 48.3 x 2.6mm	6000mm



Stainless steel, mirror-polished, individually packed

AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
Mirror Polished				
-	X4801	Ø 42.4 x 2.0mm	3000mm	6.07 kg
X001/6000	X4801/6000	Ø 42.4 x 2.0mm	6000mm	12.14 kg
-	X4803	Ø 43.0 x 1.5mm	3000mm	4.68 kg
-	X4803/6000	Ø 43.0 x 1.5mm	6000mm	9.36 kg



Stainless steel, mirror polished, individually packed

AISI316	DIMENSIONS	LENGTH	WEIGHT
Mirror Polished			
XC4801/6000	Ø 42.4 x 2.0mm	6000mm	12.14 kg



Stainless steel, satin finish, with grain size 320, individually packed

AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
EV105/6000	EV5851/6000	Ø 12 x 1.5mm	6000mm	2.38 kg
EV1050/6000	EV5852/6000	Ø 14 x 1.5mm	6000mm	2.82 kg



TUBE & BAR - ROUND BAR



Stainless steel, ground



Stainless steel, mirror-polished, individually packed

AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
E0052	E4849	Ø 8 x 3000mm	3000mm	1.19 kg
E0052/6000	E4849/6000	Ø 8 x 6000mm	6000mm	2.38 kg
E0051	E4850	Ø 10 x 3000mm	3000mm	1.85 kg
E0051/6000	E4850/6000	Ø 10 x 6000mm	6000mm	3.70 kg
E005	E4851	Ø 12 x 3000mm	3000mm	2.66 kg
E005/6000	E4851/6000	Ø 12 x 6000mm	6000mm	5.32 kg
E0050	E4852	Ø 14 x 3000mm	3000mm	3.62 kg
E0050/6000	E4852/6000	Ø 14 x 6000mm	6000mm	7.24 kg

AISI316	DIMENSIONS	LENGTH	WEIGHT
Mirror Polished			
X4851	Ø 12mm	3000mm	2.66 kg
X4851/6000	Ø 12mm	3000mm	5.32 kg



Cold galvanised iron, ground

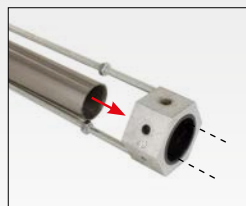
IRON	DIMENSIONS	LENGTH	WEIGHT
I005	Ø 12mm	3000mm	2.66 kg
I005/6000	Ø 12mm	6000mm	5.32 kg
I0051	Ø 10mm	3000mm	1.86 kg
I0051/6000	Ø 10mm	6000mm	3.72 kg



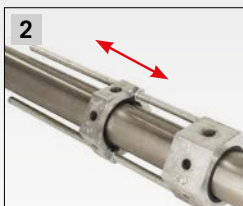
Code No.

E40580

Drilling template, patented for tubes Ø 33.7 - 42.4 - 48.3mm.
Allows Ø 7 - 9 - 11mm holes to be drilled for threaded inserts and holes for M5 - M6 - M8 threadings



Place the tube inside the template



Insert the second accessory and adjust it according to the selected spacing of the holes. Lock it with the supplied nuts



Drill the first hole



Drill the second hole. For safety, lock the template with a drill bit or other tool

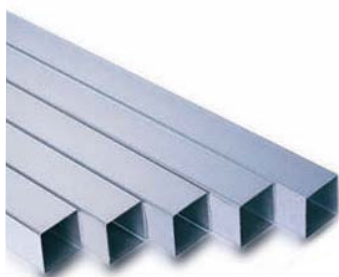


Place the template to execute the subsequent holes. Lock it by putting a drill bit in the hole just drilled



TUBE & BAR - SQUARE TUBE & FLAT BAR

SQUARE TUBES



Stainless steel, satin finish, with grain size 320, individually packed

FLAT BARS



AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
E00203030	-	30 x 30 x 2.0mm	3000mm	5.45 kg
E06203030	E16203030	30 x 30 x 2.0mm	6000mm	10.9 kg
E00204040	E10204040	40 x 40 x 2.0mm	3000mm	7.36 kg
E06204040	E16204040	40 x 40 x 2.0mm	6000mm	14.72 kg

AISI304	AISI316	DIMENSIONS	LENGTH	WEIGHT
E4000406	E4010406	40 x 6mm	4000mm	7.68 kg
EP15X5	EP15X5316	15 x 5mm	4000mm	2.36 kg





BESPOKE FABRICATION

**IF YOU CAN'T FIND WHAT YOU NEED
WE CAN MAKE IT ESPECIALLY FOR YOU**



www.aalco-handrail.com

14 CURVES & FITTINGS

COVER FITTINGS FOR ROUND BAR

142 - 143

TUBE FITTINGS

144 - 149

14 CURVES & FITTINGS



RUBBER Mallet TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



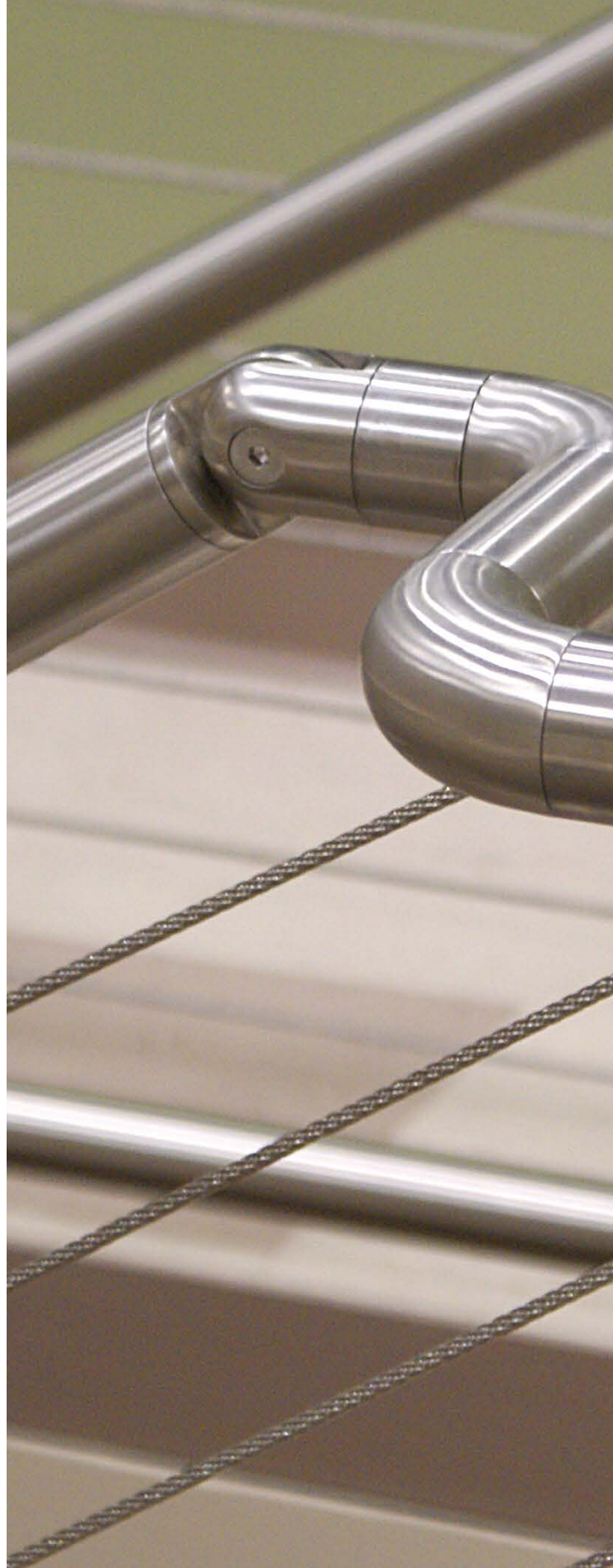
PRODUCT TO BE WELDED



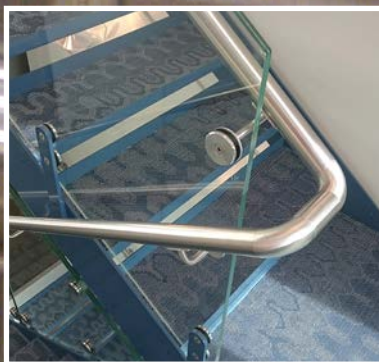
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



This range of connectors has been developed specifically to create a smooth, elegant finish, providing a secure connection between the tube profiles which hides any imperfections from the cut ends. The ABS and glass fibre push-fit connection ensures simple fixing of the tubes without the need for a hammer, ensuring a safe and secure assembly for various angles and configurations. The fittings are available in stainless steel and Zamac finishes to perfectly match the chosen handrail.



CURVES & FITTINGS - COVER FITTINGS FOR ROUND BAR

**Hides the cutting defects on tube****COVERS THE DEFECTS**

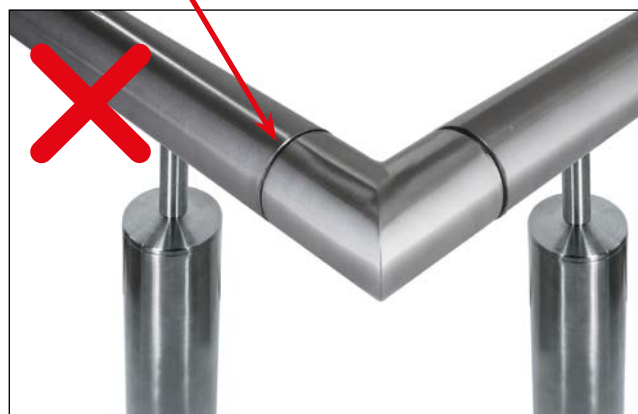
The quality of the cutting is less important, as cut ends are concealed

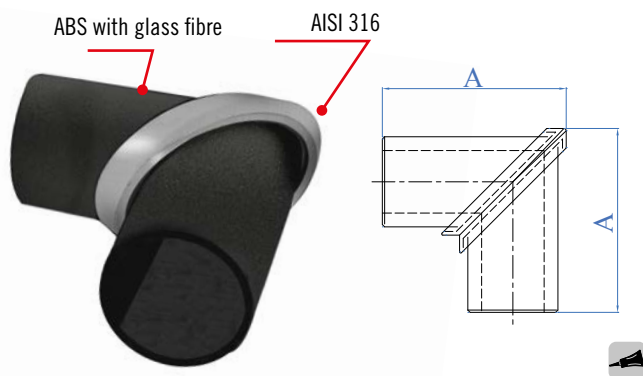
EASY AND QUICK

Fixing the joints (in ABS and glass fibre) on the tube is fast and simple - without using a hammer

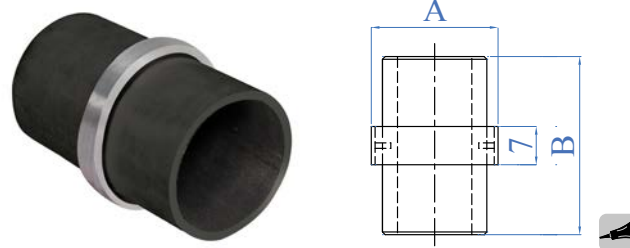
STRONG

As they are made of ABS and glass fibre, assembly of the joints is made safer and more secure

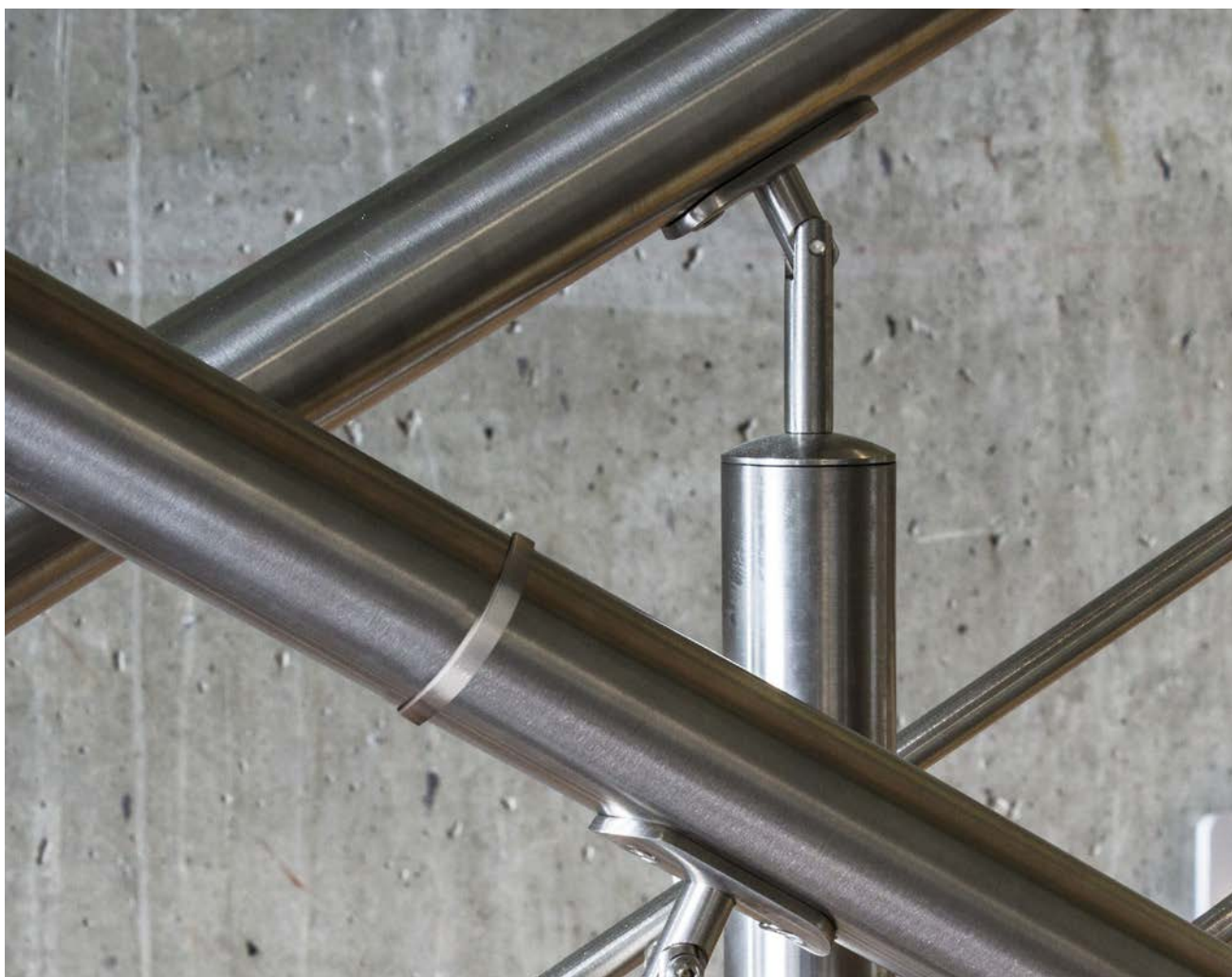
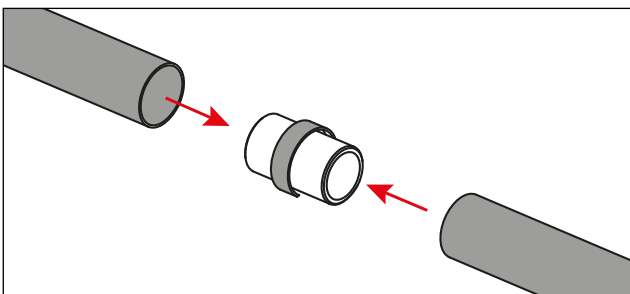
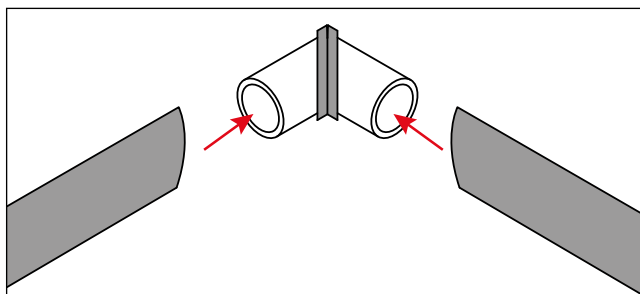




AISI316	FOR TUBE	A
E1200420	Ø 42.4 x 2.0mm	80mm

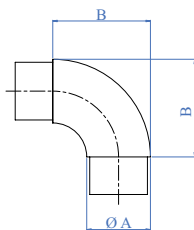


AISI316	FOR TUBE	A	B
E1200320	Ø 42.4 x 2.0mm	45mm	65mm

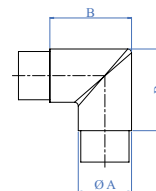


CURVES & FITTINGS - TUBE FITTINGS

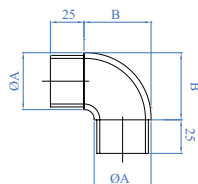
90° elbow, satin finish



AISI304	AISI316	ZAMAC RAW	FOR TUBE A	B
E450/304	E450	I450	Ø 42.4 x 2.0mm	65mm
-	E450/26	-	Ø 42.4 x 2.5mm	65mm
E2002/304	E2002	-	Ø 48.3 x 2.0mm	73mm
-	E2002/26	-	Ø 48.3 x 2.5mm	73mm
-	E2004	-	Ø 50.8 x 2.0mm	78mm
Mirror Polished				
-	X450	-	Ø 42.4 x 2.0mm	65mm
-	X450/43	-	Ø 43.0 x 1.5mm	65mm

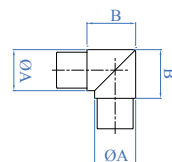


AISI304	AISI316	ZAMAC RAW	FOR TUBE A	B
E451/304	E451	I451	Ø 42.4 x 2.0mm	65mm
-	E451/26	-	Ø 42.4 x 2.6mm	65mm
-	E2012	-	Ø 48.3 x 2.0mm	67mm
-	E2012/26	-	Ø 48.3 x 2.5mm	67 mm
-	E2014	-	Ø 50.8 x 2.0mm	78mm
Mirror Polished				
-	X451	-	Ø 42.4 x 2.0mm	65mm
-	X451/43	-	Ø 43.4 x 1.5mm	65mm



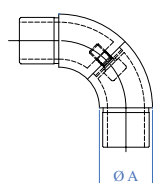
AISI304	FOR TUBE A	B
E2006/304	Ø 42.4 x 2.0mm	51mm

90° angle, satin finish



AISI304	AISI316	FOR TUBE A	B
E2023	E2023316	Ø 42.4 x 2.0mm	50mm
E2024	E2024316	Ø 48.3 x 2.0mm	68mm

Articulated elbow, satin finish



AISI304	AISI316	FOR TUBE A
E4471/304	E4471	Ø 42.4 x 2.0mm
-	E4471/26	Ø 42.4 x 2.6mm
-	E4472	Ø 48.3 x 2.0mm
-	E4473/26	Ø 60.3 x 2.6mm
Mirror Polished		
-	X4471	Ø 42.4 x 2.0mm
-	X4471/43	Ø 43.0 x 1.5mm

THESE PRODUCTS CAN BE USED WITH ITEMS
E011971, E011971316 AND E011973316



THESE PRODUCTS CANNOT BE USED WITH ITEMS
E011971, E011971316 AND E011973316



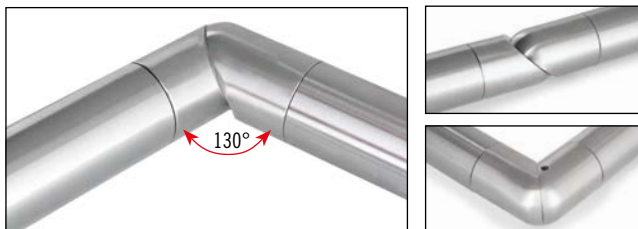
CURVES & FITTINGS - TUBE FITTINGS



1 CONNECT THE JUNCTION TO THE TUBE AND FIX IT WITH THE APPROPRIATE GLUE



2 CONNECT THE TWO EXTREMITIES OF THE JUNCTION

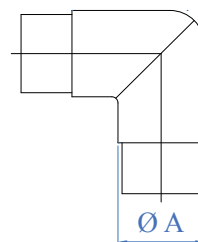


3 TWIST THEM UNTIL THE REQUIRED ANGLE - FROM 90° TO 180° - IS REACHED



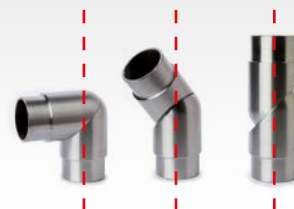
4 SECURE THE COMPONENTS WITH AN ALLEN KEY

Articulated tube fitting, satin finish



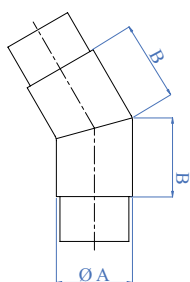
AISI304	AISI316	FOR TUBE A
E5587/304	E5587	Ø 42.4 x 2.0mm

THIS ITEM KEEPS THE HANDRAIL IN AXIS HAVING A ROTATION POINT PERFECTLY CENTRED



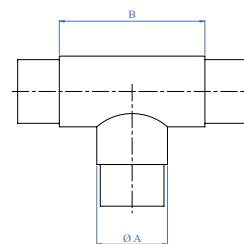
CURVES & FITTINGS - TUBE FITTINGS

45° angle, satin finish



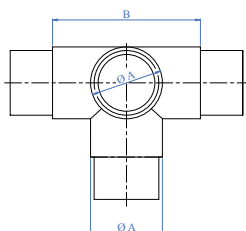
AISI304	AISI316	ZAMAC	FOR TUBE A	B
-	E2019	-	Ø 40.0 x 2.0mm	50mm
E2015/304	E2015	I2015	Ø 42.4 x 2.0mm	50mm
-	E2015/26	-	Ø 42.4 x 2.5mm	50mm
-	E2017	-	Ø 48.3 x 2.0mm	55mm
-	E2017/26	-	Ø 48.3 x 2.5mm	55mm

3-way flush "T", satin finish



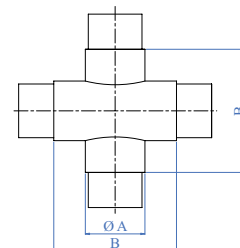
AISI316	FOR TUBE A	B
E453	Ø 42.4 x 2.0mm	100mm
E453/26	Ø 42.4 x 2.6mm	100mm
E2042	Ø 48.3 x 2.0mm	88mm
E2042/26	Ø 48.3 x 2.5mm	88mm

4-way flush "T", satin finish



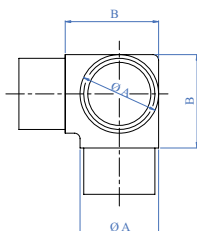
AISI316	FOR TUBE A	B
E2035	Ø 42.4 x 2.0mm	89mm
E2035/26	Ø 42.4 x 2.6mm	89mm
E2037	Ø 48.3 x 2.0mm	90mm
E2038	Ø 60.3 x 2.0mm	107mm

4-way cross, satin finish



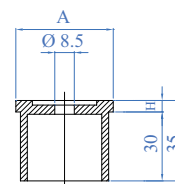
AISI316	FOR TUBE A	B
E2045	Ø 42.4 x 2.0mm	87mm
E2047	Ø 48.3 x 2.0mm	91mm
E2047/26	Ø 48.3 x 2.5mm	91mm

3-way corner, satin finish



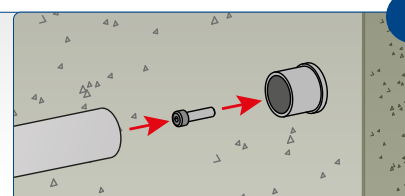
AISI316	FOR TUBE A	B
E203	Ø 42.4 x 2.0mm	65mm
E203/26	Ø 42.4 x 2.5mm	50mm
E2032	Ø 48.3 x 2.0mm	50mm

Round shallow end cap



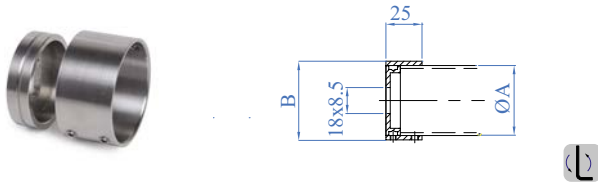
AISI304	AISI316	FOR TUBE A	H
E42420/304	E42420	Ø 42.4 x 2.0mm	5mm

It's possible to anchor the element to a wall or to a flat tube

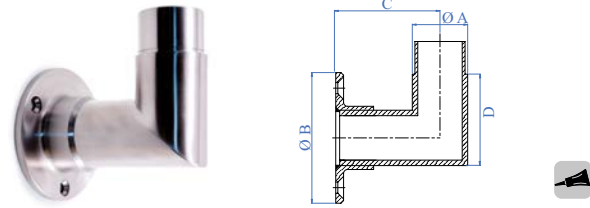


CURVES & FITTINGS - TUBE FITTINGS

Anchor for tube, satin finish



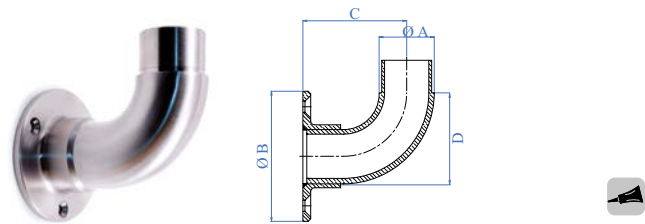
AISI304	AISI316	FOR TUBE A	B
E2070/304	E2070	Ø 42.4mm	48.6mm



AISI316	FOR TUBE A	B	C	D
E4566	Ø 42.4 x 2.0mm	Ø 84mm	80mm	65mm

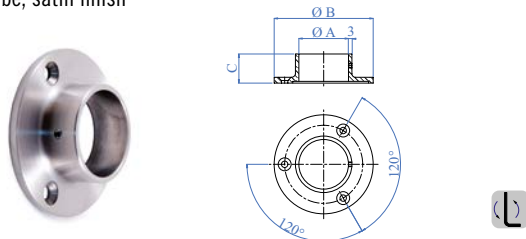


Anchor for tube, satin finish



AISI316	FOR TUBE A	B	C	D
E4561	Ø 42.4 x 2.0mm	Ø 84mm	84mm	65mm
Mirror Polished				
X4561	Ø 42.4 x 2.0mm	Ø 84mm	84mm	65mm
X4561/43	Ø 43.0 x 1.5mm	Ø 85mm	82.5mm	65mm

Anchor for tube, satin finish



AISI304	AISI316	FOR TUBE A	B	C
E456/304	E456	Ø 42.4mm	Ø 84mm	25mm
E2067/304	E2067	Ø 48.3mm	Ø 94mm	28mm
Mirror Polished				
-	X456	Ø 42.4mm	Ø 84mm	25mm

CURVES & FITTINGS - TUBE FITTINGS

IT'S POSSIBLE TO CREATE **FRENCH BALCONIES** USING
E1900310, PAGE 77 AND E2070, PAGE 147



E2070

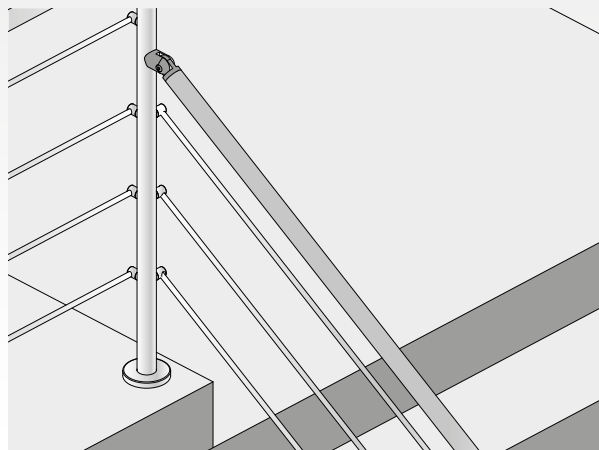


E1900310



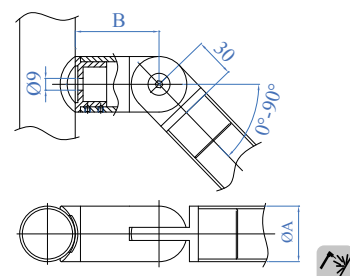
CURVES & FITTINGS - TUBE FITTINGS

CONNECTOR FOR ANCHORING THE HANDRAIL TO THE NEWEL POST



i

Pivotable connector



AISI316

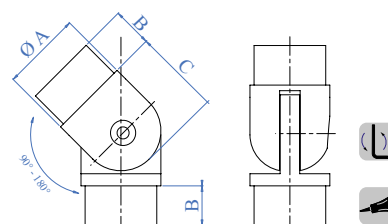
FOR TUBE A

B

E1520120 Ø 42.4 x 2.0mm

64mm

Pivotable connector, satin finish



AISI304

AISI316

ZAMAC

FOR TUBE A

B

C

E446/304

E446

I446

Ø 42.4 x 2.0mm

22mm

53mm

-

E4461

-

Ø 42.4 x 2.5 mm

22mm

53mm

E4462/304

E4462

-

Ø 48.3 x 2.0mm

25mm

59mm

-

E4463

-

Ø 48.3 x 2.5 mm

25mm

59mm

Mirror Polished

-

X446

-

Ø 42.4 x 2.0mm

22mm

53mm

-

X446/43

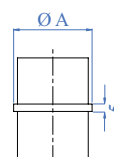
-

Ø 43.0 x 1.5mm

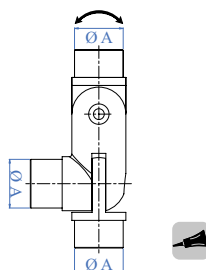
22mm

53mm

Connector, satin finish



Multiple joint, pivotable



AISI316

FOR TUBE A

E4491 Ø 42.4 x 2.0mm

E4492 Ø 48.3 x 2.0mm

AISI304

AISI316

FOR TUBE A

E455/304

E455

Ø 42.4 x 2.0mm

-

E455/26

Ø 42.4 x 2.6mm

-

E2062

Ø 48.3 x 2.0mm

-

E2062/26

Ø 48.3 x 2.6mm

Mirror Polished

-

X455

Ø 42.4 x 2.0mm

-

X455/43

Ø 43.0 x 1.5mm

15 END CAPS

END CAPS

152 - 153

15 END CAPS



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

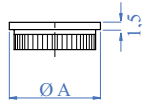


Attention to detail is important in achieving a quality finish in any handrail, balustrade or staircase application. We offer a wide range of decorative, elegant end caps and spheres in various designs and materials to ensure the perfect finishing touch.



END CAPS

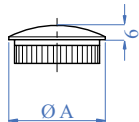
Satin finish, with knurling



AISI303	AISI316	FOR TUBE A
E01151	E01151316	Ø 42.4 x 2.0mm
E01152	-	Ø 48.3 x 2.0mm
E01154	-	Ø 60.3 x 2.0mm
Mirror Polished		
-	X01151316	Ø 42.4 x 2.0mm
-	X01151316/43	Ø 43.0 x 1.5mm

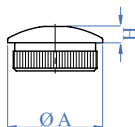
ROUNDED, SOLID END CAPS FOR TUBE

Satin finish, with knurling



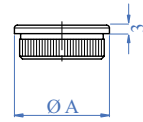
AISI303	AISI316	FOR TUBE A
E0119	E0119316	Ø 42.4 x 2.0mm
E01191	-	Ø 48.3 x 2.0mm
E01173	-	Ø 60.3 x 2.0mm
Mirror Polished		
-	X0119316	Ø 42.4 x 2.0mm
-	X0119316/43	Ø 43.0 x 1.5mm

Satin finish, with knurling



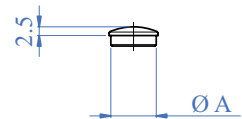
AISI303	AISI316	FOR TUBE A	H
-	E4141	Ø 42.4 x 2.0mm	7mm
E4142	-	Ø 48.3 x 2.0mm	10mm

Satin finish, with knurling



AISI316	FOR TUBE A
E4146	Ø 42.4 x 2.0mm
E4147	Ø 48.3 x 2.0mm

Satin finish, with knurling

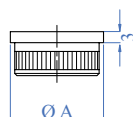


AISI303	AISI316	FOR TUBE A
E01182	E01182316	Ø 12.0 x 1.5mm



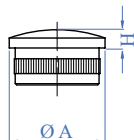
TO BE USED WITH TUBES
WITH A MINIMUM WALL
THICKNESS. SEE PAGE 136

Hollow



AISI304	AISI316	FOR TUBE A
E4100/304	E4100	Ø 42.4 x 2.0mm

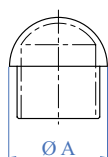
Hollow



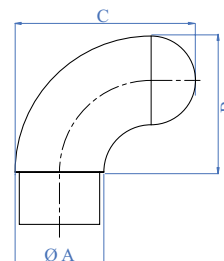
AISI304	AISI316	FOR TUBE A	H
E4120/304	E4120	Ø 42.4 x 2.0mm	9mm
-	E4135/26	Ø 48.3 x 2.5 mm	9mm

SEMI-SPHERICAL END CAPS

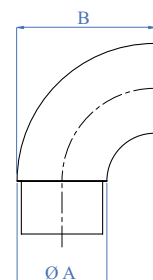
Hollow



AISI303	AISI316	FOR TUBE A
E465/304	E465	Ø 42.4 x 2.0mm
-	E466	Ø 48.3 x 2.0mm
-	E466/26	Ø 48.3 x 2.6mm
Mirror Polished		
-	X465	Ø 42.4 x 2.0mm

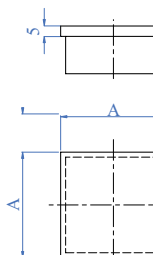


AISI304	AISI316	FOR TUBE A	B x C
E481/304	E481	Ø 42.4 x 2.0mm	80 x 60mm
-	E482	Ø 48.3 x 2.0mm	100 x 75mm
-	E483	Ø 60.3 x 2.0mm	115 x 85mm



AISI304	AISI316	FOR TUBE A	B
E452/304	E452	Ø 42.4 x 2.0mm	55mm
-	E45210	Ø 48.3mm	55mm
Mirror Polished			
-	X452	Ø 42.4 x 2.0mm	55mm

END CAPS FOR SQUARE TUBES



AISI304	AISI316	FOR TUBE A x A
-	E4210	25 x 25 x 2.0mm
-	E4220	30 x 30 x 2.0mm
E4230/304	E4230	40 x 40 x 2.0mm
-	E4240	50 x 50 x 2.0mm

16 HANDRAIL SUPPORTS

HANDRAIL SUPPORTS

156 - 160

16 HANDRAIL SUPPORTS



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



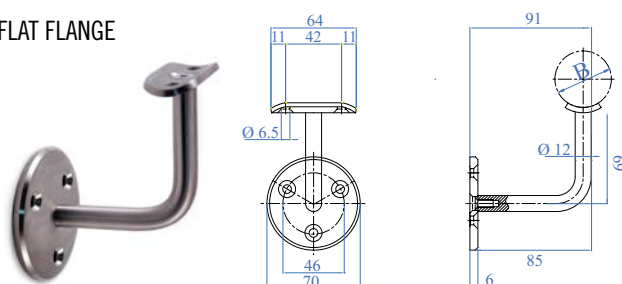
A comprehensive range of handrail supports in a variety of designs, sizes and finishes. Available in fixed or adjustable options for both wall mounting and glass mounting, they are suitable for round and flat handrails. Included in the range is a new series of handrail kits, supplied complete with the supports and 2m or 3m tube handrails in stainless steel (satin finish or mirror polished) or wood. Ready to assemble and easy to install, the kits are ideal for less experienced installers.



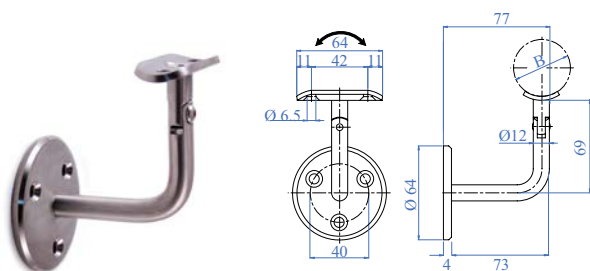
16 HANDRAIL SUPPORTS

HANDRAIL SUPPORTS

FLAT FLANGE

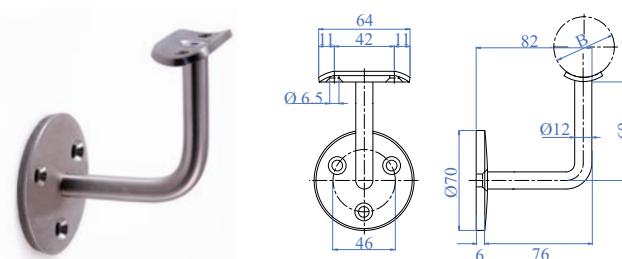


AISI304	AISI316	DESCRIPTION	B
E02230	-	With Internal Thread	Ø 42.4mm
E02232	-	With Internal Thread	Ø 48.3mm



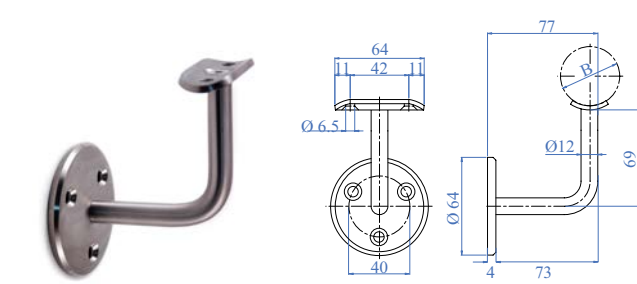
AISI304	AISI316	DESCRIPTION	B
E02231	E02231316	With plate and pivot	Ø 42.4mm
Mirror Polished			
-	X02231316	With plate and pivot	Ø 42.4mm / Ø 43.0mm

CONVEX FLANGE

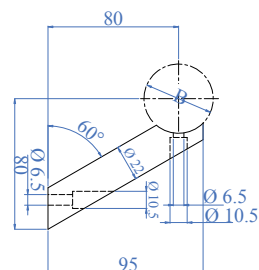


AISI304	AISI316	B
E022431	E022431316	Ø 42.4mm

THE WALL HANDRAIL SUPPORTS CAN BE MATCHED WITH FLANGE CANOPY E0182, ON PAGE 133



AISI304	AISI316	DESCRIPTION	B
E0223	E0223316	Without Thread	Ø 42.4mm
Mirror Polished			
-	X0223316	Without Thread	Ø 42.4mm / Ø 43.0mm



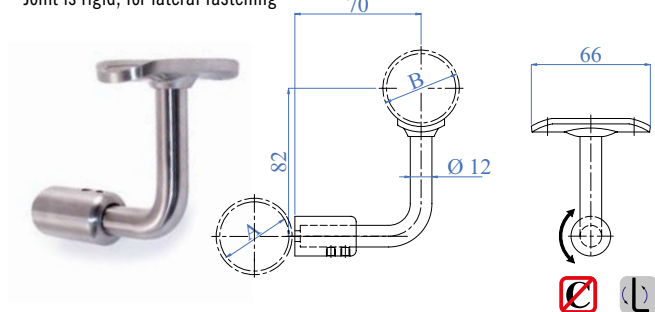
AISI304	B	ANCHOR SURFACE
E034200	Ø 42.4mm	Flat surface



INTERCHANGABLE SADDLES 42/48/60MM Ø, SEE PAGE 159

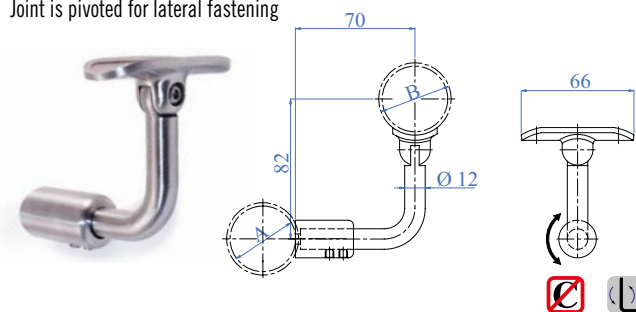


Joint is rigid, for lateral fastening



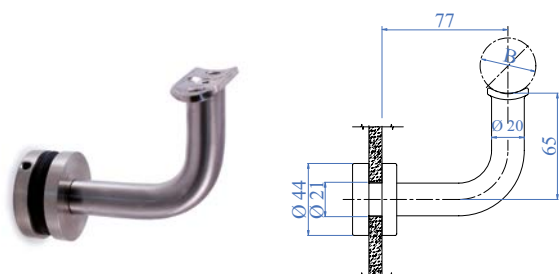
AISI304	AISI316	A	B
E4583/304	E4583	Square	Ø 42.4mm
E4587	E4583/424	Ø 42.4mm	Ø 42.4mm

Joint is pivoted for lateral fastening



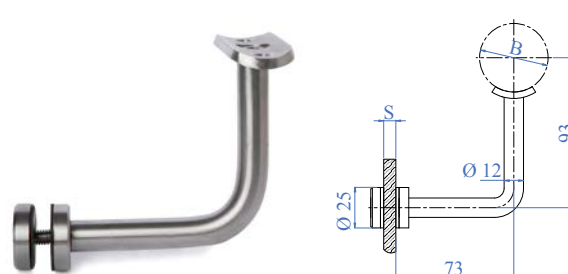
AISI316	A	B
E4584	Square	Ø 42.4mm
E4584/424	Ø 42.4mm	Ø 42.4mm

4 pieces complete with glass clip and mounting plate.



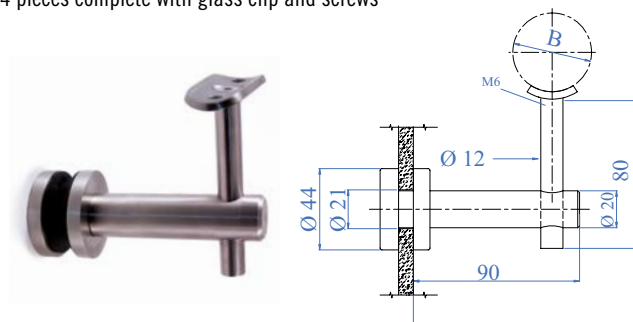
AISI303	AISI316	B	DESCRIPTION
E022/S1	E022/S1316	Ø 42.4 x 2.0mm	For glass thickness 8-22mm Glass to be drilled Ø 21mm
E022/S3	E022/S3316	Ø 60.3 x 2.0mm	For glass thickness 8-22mm Glass to be drilled Ø 21mm

4 pieces complete with glass clip and mounting plate



AISI303	AISI316	B	DESCRIPTION
E035100	E035100316	Ø 42.4 x 2.0mm	For glass thickness 8-22mm Glass to be drilled Ø 15mm

4 pieces complete with glass clip and screws

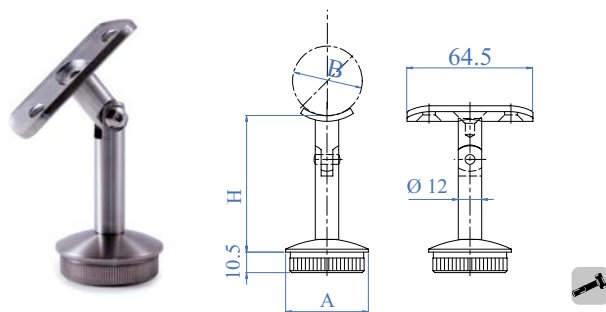


AISI303	AISI316	B	DESCRIPTION
E022/S2	E022/S2316	Ø 42.4 x 2.0mm	For glass thickness 8-22mm Glass to be drilled Ø 21mm



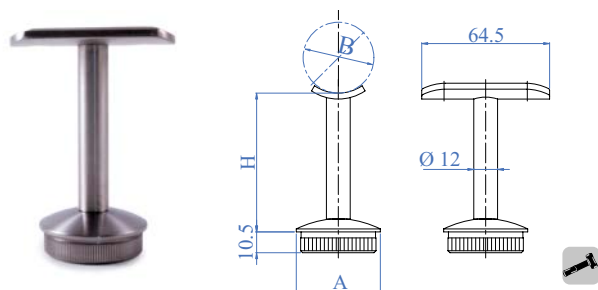
HANDRAIL SUPPORTS

4 pieces complete with screws and end cap for tube



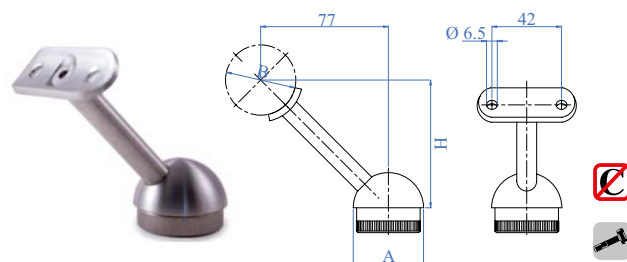
AISI303	AISI316	H	A	B
E030/S	E030/S316	75mm	Ø 42.4 x 2.0mm	Ø 42.4mm
-	E030/S316/26	75mm	Ø 42.4 x 2.5mm	Ø 42.4mm
-	E0302316	75mm	Ø 48.3 x 2.0mm	Ø 42.4mm
-	E0302316/26	75mm	Ø 48.3 x 2.5mm	Ø 42.4mm
E030/S1	-	75mm	Ø 50.8 x 2.0mm	Ø 42.4mm
Mirror Polished				
-	X030/S316	75mm	Ø 42.4 x 2.0mm	Ø 42.4mm
-	X030/S316/43	75mm	Ø 43.0 x 1.5mm	Ø 42.4mm

3 pieces complete with screw and end cap for tube

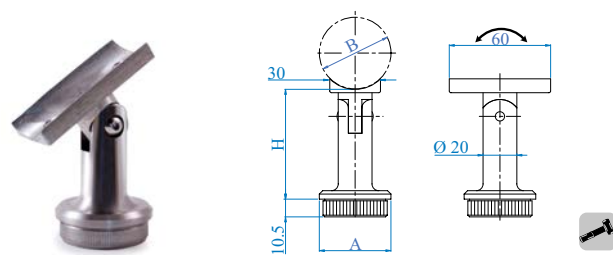


AISI303	AISI316	H	A	B
E031/S1	E031/S1316	75mm	Ø 42.4 x 2.0mm	Ø 42.4mm
-	E031/S1316/26	75mm	Ø 42.4 x 2.6mm	Ø 42.4mm
-	E0312316	75mm	Ø 48.3 x 2.0mm	Ø 42.4mm
E0312/26	E0312316/26	75mm	Ø 48.3 x 2.6mm	Ø 42.4mm
E031/S2	-	75mm	Ø 50.8 x 2.0mm	Ø 42.4mm
Mirror Polished				
-	X031/S1316	75mm	Ø 42.4 x 2.0mm	Ø 42.4mm
-	X031/S1316/43	75mm	Ø 43.0 x 1.5mm	Ø 42.4mm

3 pieces complete with screws and end cap for tube

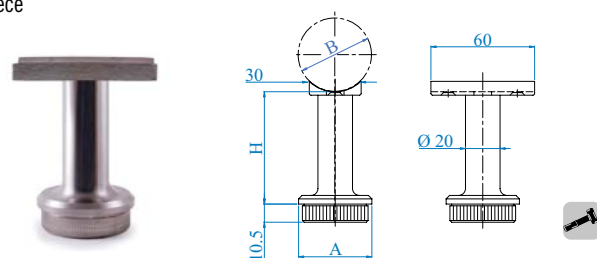


AISI303	AISI316	H	A	B
E038900	E038910	77mm	Ø 42.4 x 2.0mm	Ø 42.4mm



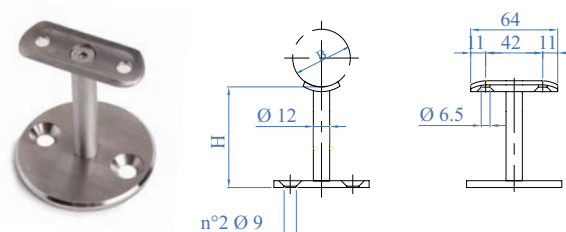
AISI304	H	A	B
E030	57mm	Ø 42.4 x 2.0mm	Ø 42.4 x 2.0mm

1 piece

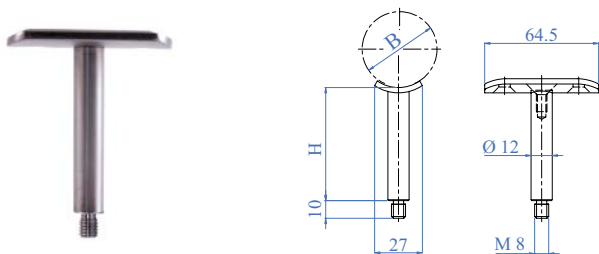


AISI304	H	A	B
E031	57mm	Ø 42.4 x 2.0mm	Ø 42.4 x 2.0mm

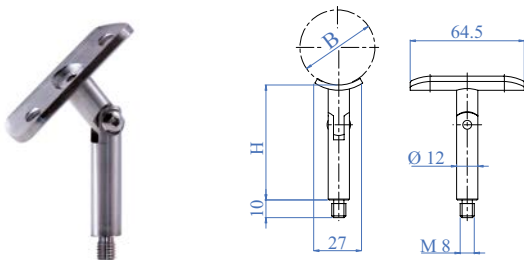
Flanged handrail support



AISI304	AISI316	B	H
-	E0232316	Ø 42.4mm	50mm
E0230	E0230316	Ø 42.4mm	75mm
E0234	E0234316	Ø 42.4mm	100mm



AISI304	H	B
E041400	68mm	Ø 42.4mm



AISI304	H	B
E041410	68mm	Ø 42.4mm



Tube adaptor with a satin finish

AISI316	FOR TUBE	H
E492/26	Ø 48.3 x 2.5mm	14mm

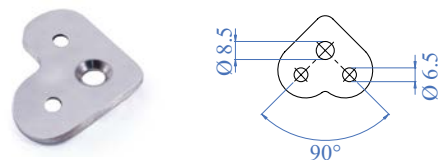
MOUNTING PLATES



AISI304	AISI316	FOR TUBE
E011971	E011971316	Ø 42.4mm
-	E011973316	Ø 48.3 - Ø 60.3mm

MOUNTING PLATES

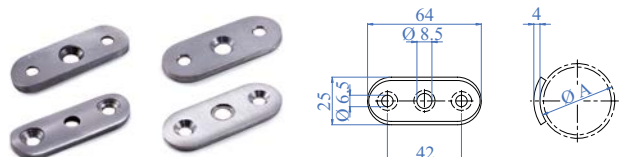
Thickness 4mm



AISI304	AISI316	FOR TUBE
E011970	E011970316	Flat face

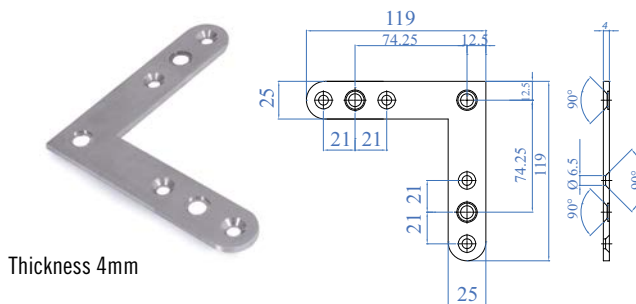
Thickness 4mm

Flat face



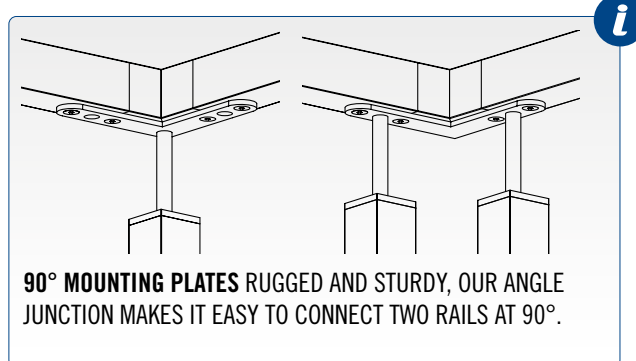
AISI304	AISI316	FOR TUBE
E01197	E01197316	Ø 42.4mm
E011972	E011972316	Ø 48.3 - Ø 60.3mm
E011976	-	Flat face

90° MOUNTING PLATES



Thickness 4mm

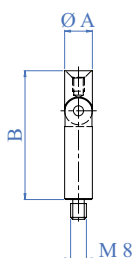
AISI304	AISI316	FOR TUBE
E011977	E011977316	Flat face



90° MOUNTING PLATES RUGGED AND STURDY, OUR ANGLE JUNCTION MAKES IT EASY TO CONNECT TWO RAILS AT 90°.

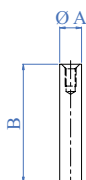
HANDRAIL SUPPORTS

Pivot with external Thread M8 and internal Thread M6

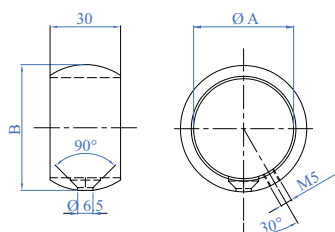


AISI304	DIMENSIONS A x B	PIVOTABLE
E01193	Ø 14 x 65mm	Yes

With one internal thread M6

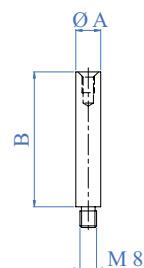


AISI316	DIMENSIONS A x B
E0119441316	Ø 14 x 115mm - Round head



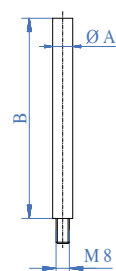
AISI316	FOR TUBE A	B
E468/424	Ø 42.4mm	53.6mm

Fixed with external Thread M8 and internal Thread M6



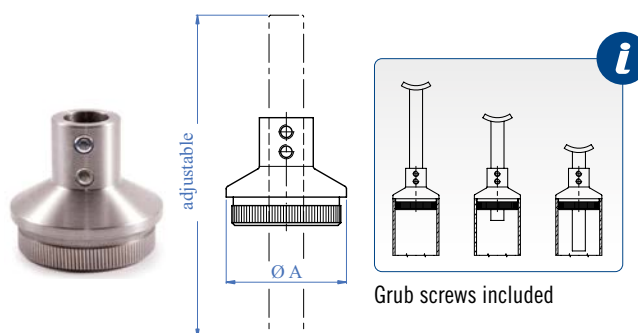
AISI304	AISI316	DIMENSIONS A x B
E011941	E011941316	Ø 12 x 65mm
E01194	-	Ø 14 x 65mm
E011943	-	Ø 12 x 115mm

Fixed with external Thread M8



AISI304	DIMENSIONS A x B
E72214	Ø 12 x 70mm
E72228	Ø 12 x 90mm
E72229	Ø 12 x 120mm

END CAPS FOR HANDRAIL HOLDERS



AISI303	AISI316	FOR TUBE A	THROUGH HOLE
E01196100	E02196100	Ø 42.4 x 2.0mm	Ø 12.2mm



16 HANDRAIL SUPPORTS

17 LED SYSTEM

SLOTTED TUBE & LED CABLE	164
CONNECTORS	165
BRACKETS	166
SLOTTED TUBE FITTINGS	167
EXAMPLES OF APPLICATIONS	168

17 LED SYSTEM



RUBBER Mallet TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED

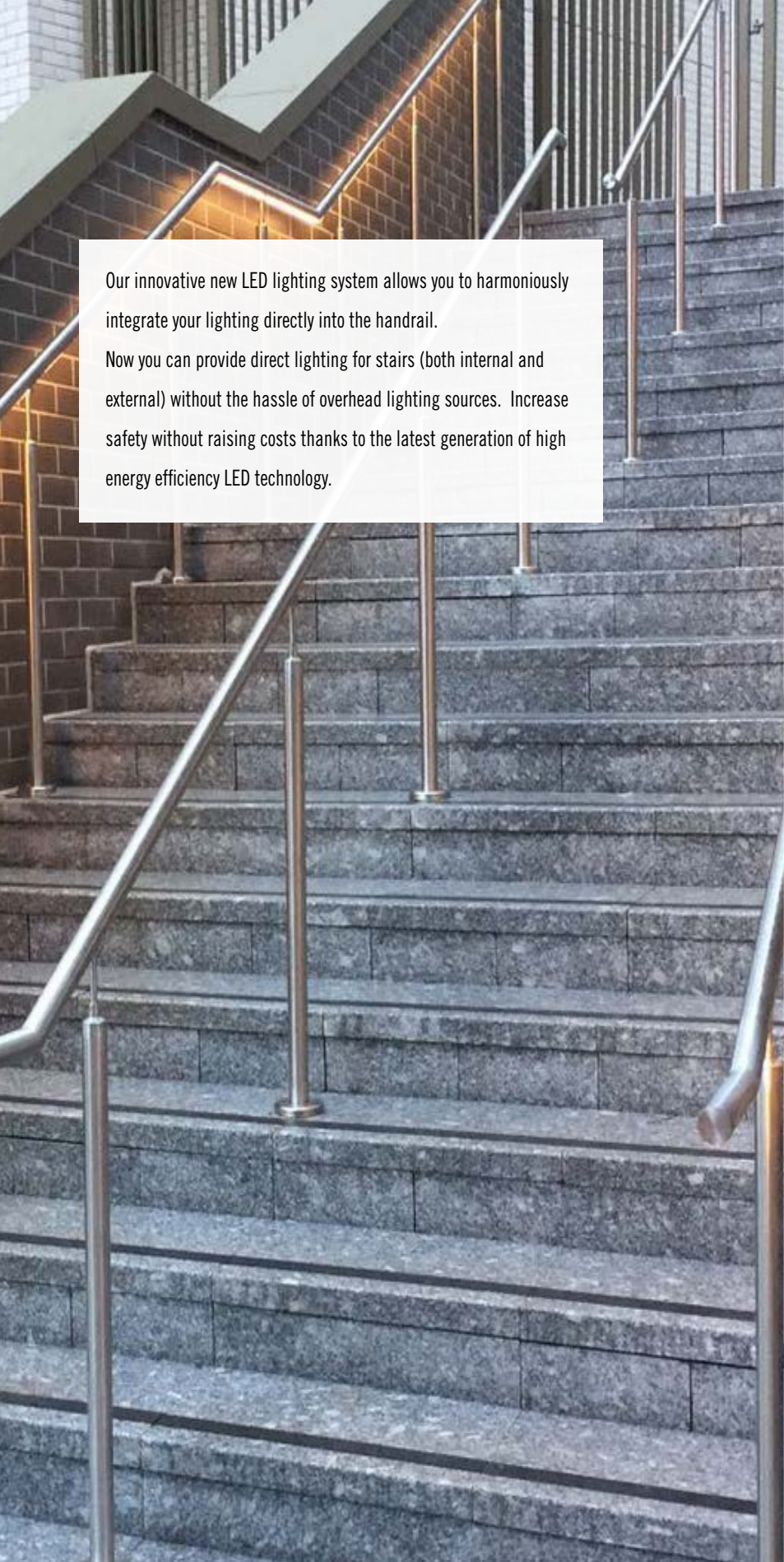


ANTI-CLIMB PRODUCT



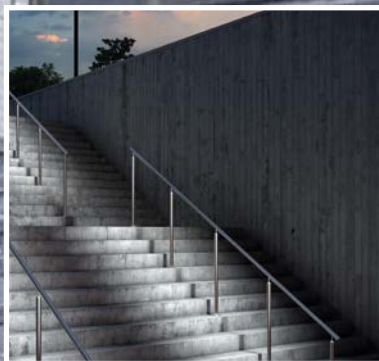
SUPER STRONG, HIGH RESISTANT PRODUCT





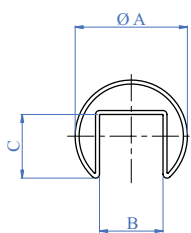
Our innovative new LED lighting system allows you to harmoniously integrate your lighting directly into the handrail.

Now you can provide direct lighting for stairs (both internal and external) without the hassle of overhead lighting sources. Increase safety without raising costs thanks to the latest generation of high energy efficiency LED technology.

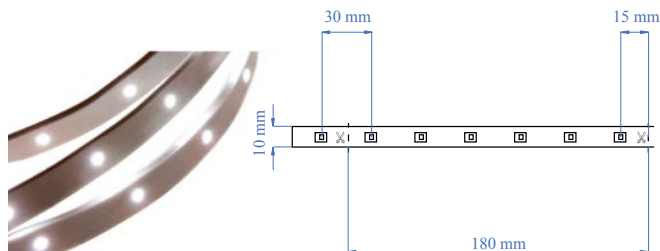


17 LED SYSTEM

LED SYSTEM - SLOTTED TUBE & LED CABLE



Steel handrail specially designed for the LED Railing System line



The revolutionary LED Cable is:

- totally waterproof
- ultra-bright (over 180 lumens)
- ultra-thin, flexible, easy to cut and install, virtually indestructible

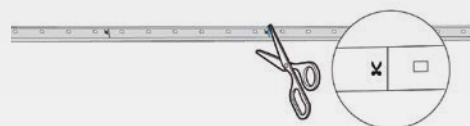
AISI304	AISI316	FOR TUBE A	LENGTH	B	C
E1000424	E1100424	Ø 42.4 x 1.5mm	6000mm	24mm	24mm

LED	METRE
ELED0001	Sold by the metre. Maximum length 25m

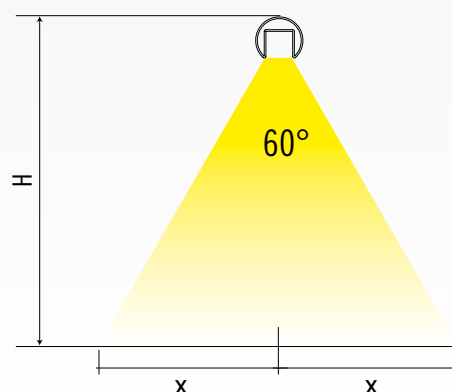
Input voltage	24 V
Input current	154 mA
Power	3.7 W/m
Weight	60 g/m
Life time	35,000hrs
Beam angle	110°
Luminosity /m	198 lm
CRI	72
No. Led /18cm	6
Operating temperature	-20 C° + 50 C°
Use	Indoor/outdoor

LIGHT EXIT AND COLOUR DISTRIBUTION

HEIGHT H	ILLUMINATED AREA X
1200mm	692mm
1100mm	635mm
1000mm	579mm
900mm	519mm
800mm	461mm



Every 18cm you will find marks where the strip can be cut



LED SYSTEM - CONNECTORS

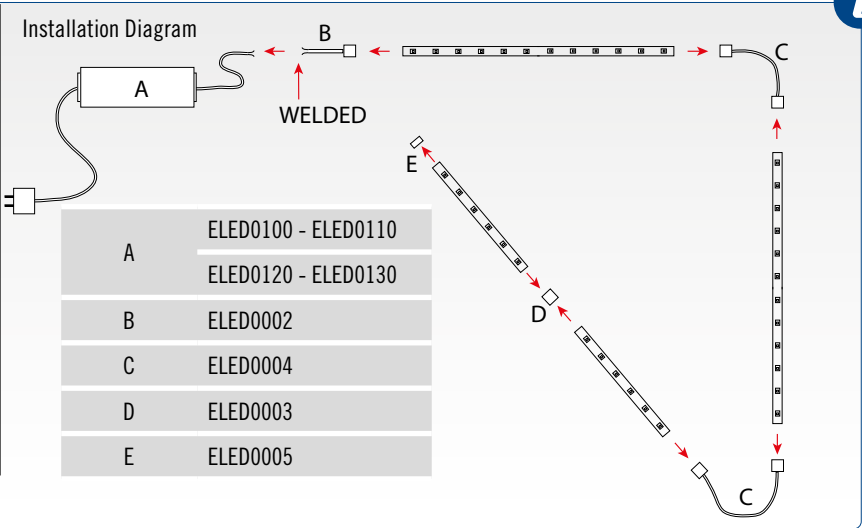
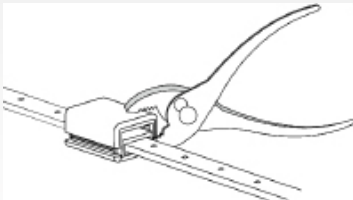


DESCRIPTION	
ELED0002	To connect the LED strip to the feeder
DESCRIPTION	
ELED0003	To join two LED strips in a line
DESCRIPTION	
ELED0004	To join two LED strips by a 15mm flexible cable
DESCRIPTION	
ELED0009	To join two LED strips with a 90° elbow
DESCRIPTION	
ELED0005	To be used on every installation. 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

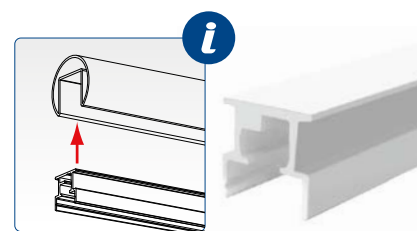
Use a clamp to apply pressure from above and below the connectors to join the strips of LED's



LED SYSTEM - BRACKETS

The simple LED railing system employs supporting brackets that can be easily attached to the slotted tube.

PVC	DESCRIPTION	LENGTH
ELED0014	White profile to be applied to the slotted tube for the sliding of the LED strips	2000mm
ELED0015	White profile to be applied to the slotted tube for the sliding of the LED strips	Kit 5 pcs x 100mm



PLASTIC	DESCRIPTION
ELED0006	To attach the LED strips to the slotted handrail. Packaging: 10pcs with screws



PVC	DESCRIPTION	LENGTH
ELED0012	Interlocking LED cover in transparent rubber	2000mm

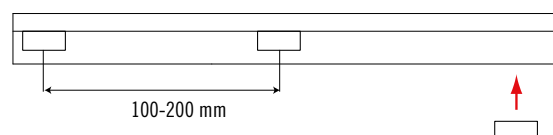
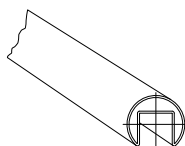


BIADHESIVE TAPE	DESCRIPTION	COIL LENGTH	DIMENSIONS
E1999892	Double-sided adhesive tape	33m	15 x 1.5mm



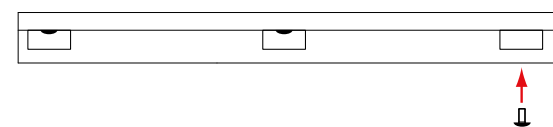
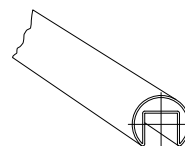
1a

Apply part ELED0015 inside the slotted tube using the supplied biadhesive E1999892. Place the locking brackets at a maximum distance of 100 - 200mm.



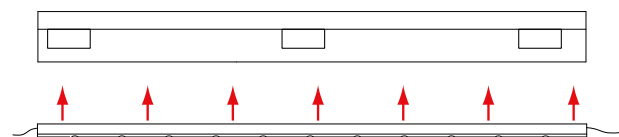
1b

For a more secure fixing you can use the M3 screws directly anchored to the slotted handrail. Aalco recommends you pre-drill a hole before fitting the M3 screw.



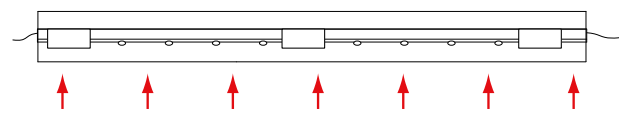
2

Apply the LED lights to the bracket with slight pressure.

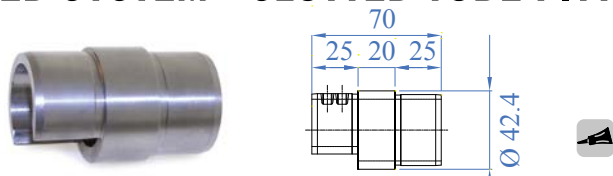


3

Close the profile containing the LED with the transparent gasket ELED0012.

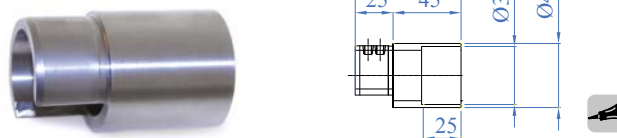


LED SYSTEM - SLOTTED TUBE FITTINGS



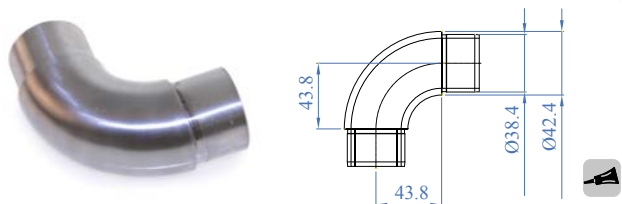
AISI316 DESCRIPTION

E1200120 To join the slotted tube to a normal tube Ø 42.4mm



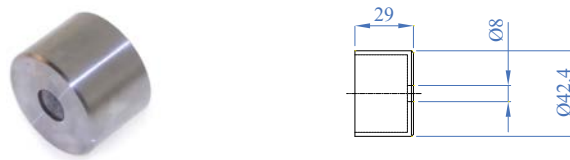
AISI316 DESCRIPTION

E1200130 To join the slotted tube to E450



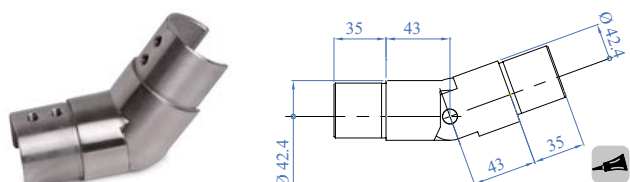
AISI316 DESCRIPTION

E450 90° connector



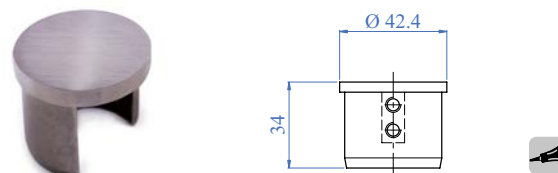
AISI316 DESCRIPTION

E1100120 To lead the cable to the wall



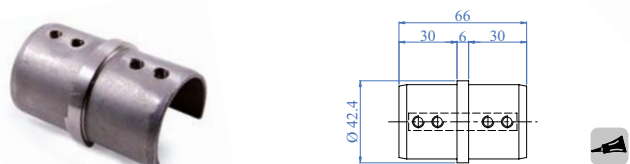
AISI316 DESCRIPTION

E1510100 Articulated connector for slotted tube



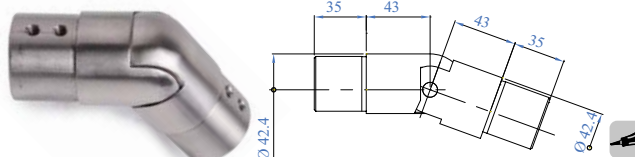
AISI316 DESCRIPTION

E1100100 End cap



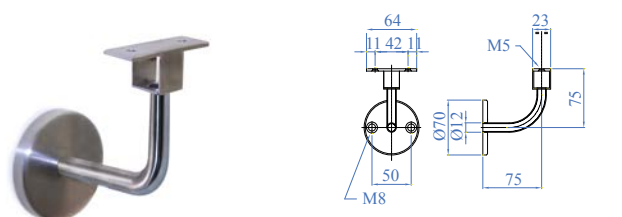
AISI316 FOR TUBE

E1200100 Ø 42.4 x 1.5mm



AISI316 FOR TUBE

E1520100 Articulated connector 25-55° (down) for slotted tube



AISI304

AISI316

DESCRIPTION

E1530100/304 E1530100 Wall handrail support

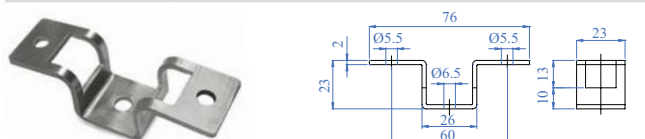


AISI316 FOR TUBE A

B

E2070 Ø 42.4mm

48.6mm

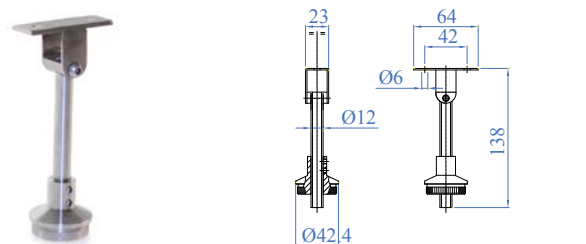


AISI304

AISI316

DESCRIPTION

E1540120/304 E1540120 Mounting plate for handrail support



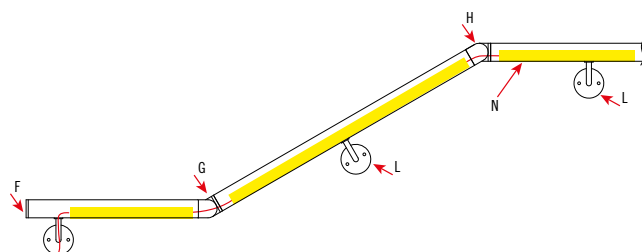
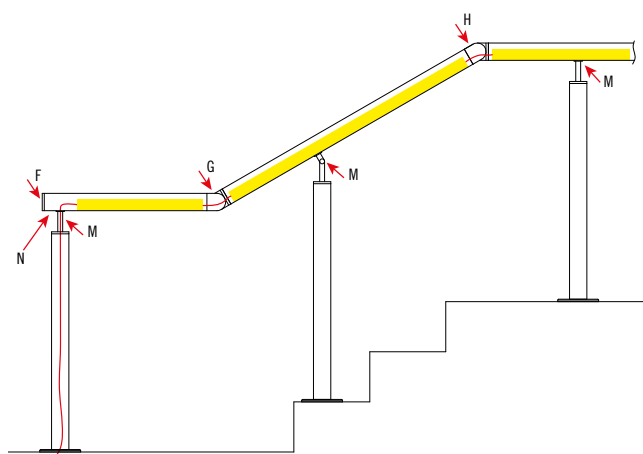
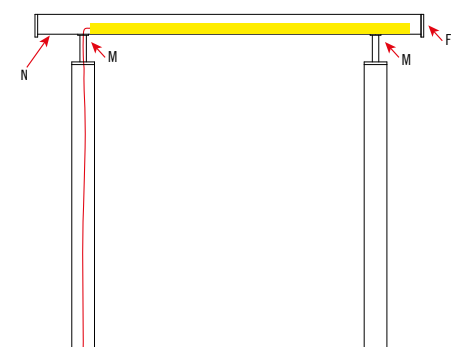
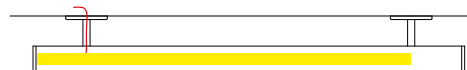
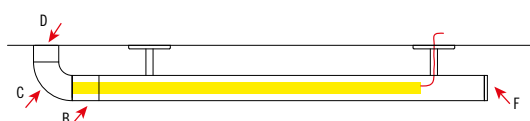
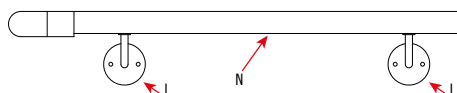
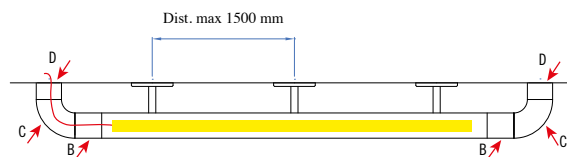
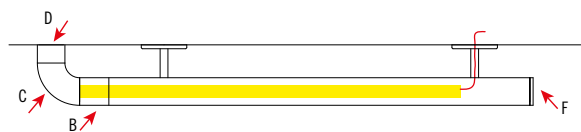
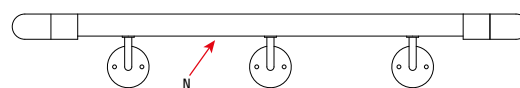
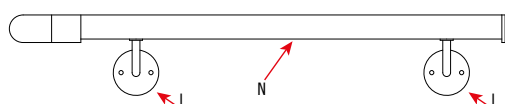
AISI304

AISI316

DESCRIPTION

E1540100/304 E1540100 Handrail support for newel post

LED SYSTEM - EXAMPLES OF APPLICATIONS



	ELED0001
A	E1200120
B	E1200130
C	E450
D	E1100120
F	E1100100
G	E1510100
H	E1520100
I	E1200100
L	E1530100
M	E1540100
N	E1000424 - E1100424



17 LED SYSTEM

18 WOODINOX SYSTEM

WOOD - X PRO	172 - 173
WOODINOX SYSTEM	174 - 176
SLOTTED TUBE FITTINGS	177

18 WOODINOX SYSTEM



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



Combine stainless steel with a natural and traditional material - wood.

Our Woodinox line allows customers to enjoy the resistance of stainless steel with the warmth of wood.



18 WOODINOX SYSTEM

WOOD - X PRO

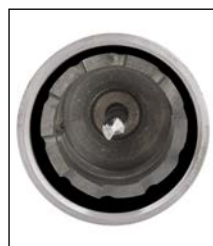


Revolutionary tool that allows you to combine a wooden handrail with the traditional range of Aalco handrail fittings.



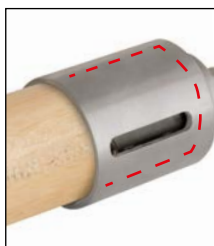
QUICK

Very quick! Only 5 seconds needed to create a clutch channel



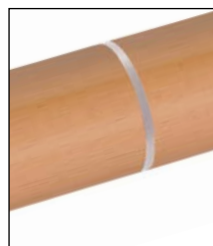
QUALITY

The self-lubricating teflon coating ensures the surface of the woodwork remains intact



EASY

Thanks to the template, you can keep the handrail and the tool aligned throughout the machining phase



PROFESSIONAL

Thanks to the internal fixing system, only the main parts remain visible



REDUCES STOCK

Using the standard fittings, you will not have to stock wood accessories and can therefore reduce your stock costs



COMPACT

Thanks to its compact size it is possible to transport it anywhere and work directly on site



SAFE

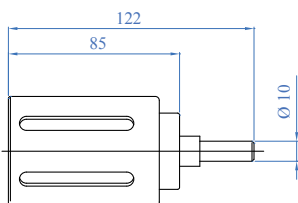
Thanks to a ball bearing system, it is possible to hold the socket securely throughout the operation



VERSATILE

It can be used with all drills

WOOD - X PRO



AISI316	FOR TUBE
E91070	Ø 42.4mm
E91075	Ø 48.3mm

WOOD	DESCRIPTION	LENGTH	COLOUR
E693/3000	Ø 42.4mm	3000mm	Natural
E694/3000/G	Ø 48.3mm	3000mm	Raw finish, unpainted
E693/3000/G	Ø 42.4mm	3000mm	Raw finish, unpainted

TO SEE ALL THE ACCESSORIES THAT YOU CAN COMBINE, GO TO THE 'PROFILE SYSTEMS' SECTION & 'CURVES & FITTINGS' SECTION



A WIDE CHOICE OF WOOD ON REQUEST

Universal contact adhesive with exceptional adhesion strength. Perfect for gluing various surfaces or laminated materials where instant grip is required with load capacity and resistance to tensile strength.

CODE NO.

E91902



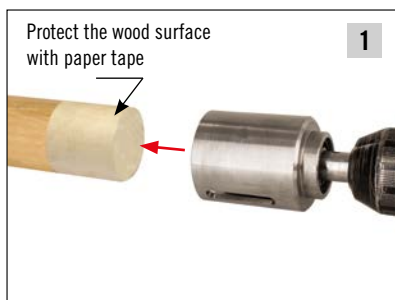
Hammer drill/driver 18V with two 1.5 Ah batteries. Weight 1.9 kg

CODE NO.

E91060



INSTRUCTIONS FOR USE



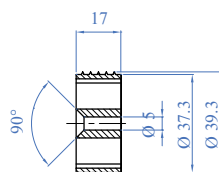
18 WOOD - X PRO

WOODINOX SYSTEM



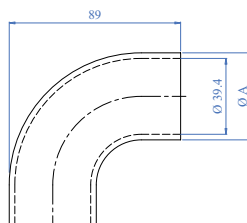
WOOD	Ø A	FINISH	LENGTH
E693/3000/G	Ø 42.4mm	Raw finish, unpainted	3000mm
E690/3000/G	Ø 45mm	Raw finish, unpainted	3000mm

PLASTIC SUPPORT FOR END CURVES



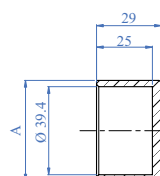
PLASTIC	DESCRIPTION	FOR HANDRAIL
E600/T42	Plastic support for end caps and fittings (screw included)	Ø 42.4mm
E600/T	Plastic supports for end caps and fittings (screw included)	Ø 45mm

CURVES AND FITTINGS



AISI304	DESCRIPTION	A
E607	90° curved	Ø 42.4mm
E600	90° curved	Ø 45mm

END CAPS



AISI304	DESCRIPTION	A
E4264	Flat end terminal	Ø 42.4mm
E4265	Flat end terminal	Ø 45mm



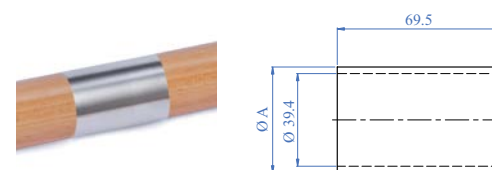
WOOD	Ø A	FINISH	LENGTH
E693/3000	Ø 42.4mm	Natural	3000mm
E691/3000	Ø 45mm	Natural	3000mm

TOOLS FOR MOUNTING WOODINOX

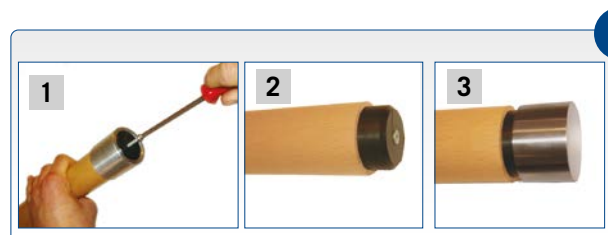


ALUMINIUM	DESCRIPTION	FOR HANDRAIL
E600/D42	Drill-gauge for wooden handrails	Ø 42.4mm
E600/D	Drill-gauge for wooden handrails	Ø 45mm

EASY TO INSTALL

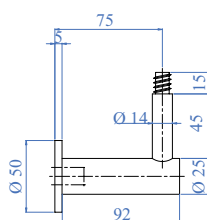


AISI304	DESCRIPTION	A
E608	Wooden handrail connector	Ø 42.4mm
E603	Wooden handrail connector	Ø 45mm

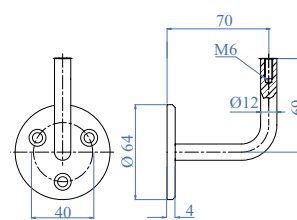


WOODINOX SYSTEM

HANDRAIL SUPPORTS



AISI316	DESCRIPTION
E4586	Handrail support



AISI304	DESCRIPTION
E0224	Handrail support

HANDRAIL SUPPORT ACCESSORIES

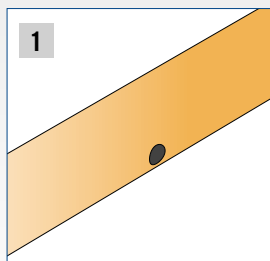


AISI304	DESCRIPTION
EINSM6X12	Nut for handrail support

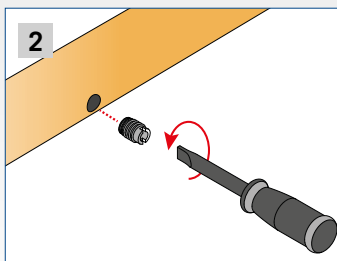


AISI304	DESCRIPTION
ESM614	Threaded screw M6

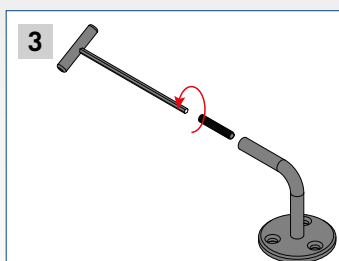
ASSEMBLY SCREWS AND HANDRAIL



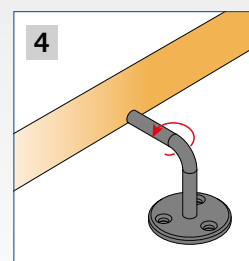
1 Drill the handrail Ø 12mm



2 Screw in EINSM6X12



3 Screw ESM614 to the handrail support



4 Twist the handrail support until the correct position is achieved

WOODINOX SYSTEM



RUBBER GASKET



Also available in groups of 6 metres

WOOD	LENGTH	COLOUR
EW1100001	2m	Natural

RUBBER	FOR TUBE	GLASS	COIL LENGTH
E1999100	Ø 42.4mm	8 - 10.76mm	30m
E1999200	Ø 42.4mm	12 - 16.76mm	30m
E1999300	Ø 42.4mm	16.76 - 18mm	30m
E1999360	Ø 42.4mm	19mm	30m
E1999370	Ø 42.4mm	20 - 21.52mm	30m
E1999400	Ø 48.3mm	8 - 12.76mm	30m
E1999500	Ø 48.3mm	13 - 17.52mm	30m
E1999650	Ø 48.3mm	18 - 21.52mm	30m

18 WOODINOX SYSTEM



WOODINOX SYSTEM - SLOTTED TUBE FITTINGS

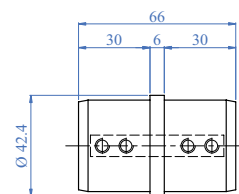
RUBBER ADAPTOR FOR WOOD PROFILE SYSTEM



Kit consisting of 3 parts:
1 section of tube E1100424
1 adaptor EW120010
1 self threading screw

AISI316	SLOTTED TUBE
EW120010	Ø 42.4mm

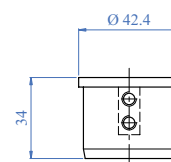
CONNECTOR



In stainless steel, satin finish, with grain size 240

AISI316	FOR TUBE
E1200100	Ø 42.4 x 1.5mm

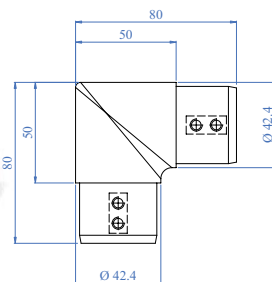
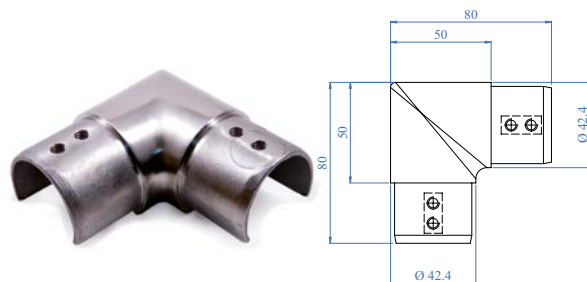
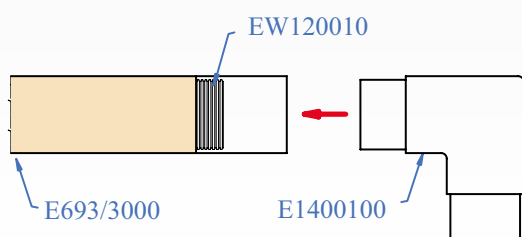
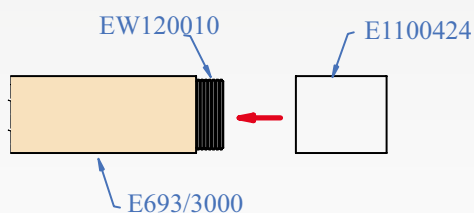
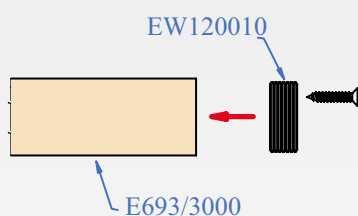
END CAP



In stainless steel, satin finish, with grain size 240

AISI316	FOR TUBE
E1100100	Ø 42.4 x 1.5mm

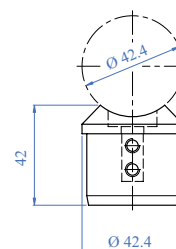
TO ASSEMBLE THESE CONNECTORS TO THE PROFILE SYSTEM, FOLLOW THESE DIAGRAMS



Horizontal fitting, satin finish, with grain size 240

AISI316	FOR TUBE
E1400100	Ø 42.4 x 1.5mm

HANDRAIL



In stainless steel, satin finish, with grain size 240

AISI316	FOR TUBE
E1300100	Ø 42.4 x 1.5mm

19 CUBE SYSTEM

CUBE SYSTEM	180
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FLAT BAR & MOUNTING PLATES	184
WALL GLASS CLAMPS	185
FITTINGS	186 - 187

19 CUBE SYSTEM



RUBBER Mallet TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



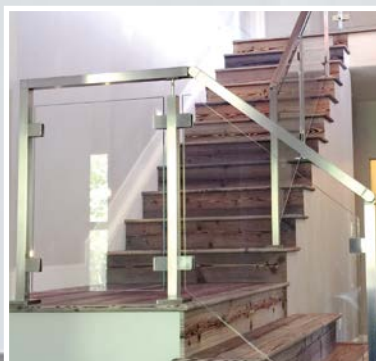
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT



As the name suggests, this option provides an alternative to the more conventional rounded profiles, with a cube-shaped profile that sits very well with a contemporary architectural approach. Equally at home in internal and external applications, the linear and modern Cube system is quick and easy to install, requiring no welding or finishing on site.



19 CUBE SYSTEM

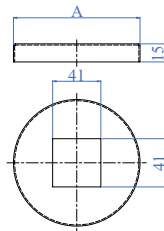
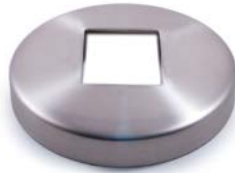
CUBE SYSTEM

SQUARE TUBES

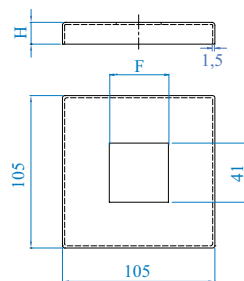


Stainless steel, satin finish, with grain size 240, individually packed

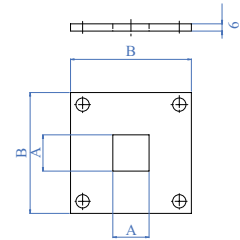
AISI304	AISI316	DIMENSIONS
E00203030	E10203030	30 x 30 x 2.0 x 3000mm
E06203030	E16203030	30 x 30 x 2.0 x 6000mm
E00204040	E10204040	40 x 40 x 2.0 x 3000mm
E06204040	E16204040	40 x 40 x 2.0 x 6000mm



AISI316	DIMENSION A	HOLE	HEIGHT
E02051316	Ø 105mm	41 x 41mm	15mm

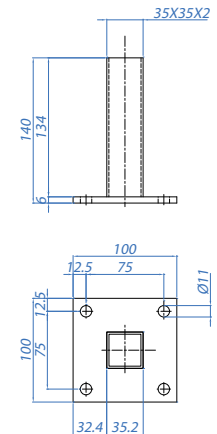


AISI304	AISI316	DIMENSION	HOLE F	HEIGHT H
E02052	E02052316	105 x 105mm	41 x 41mm	15mm

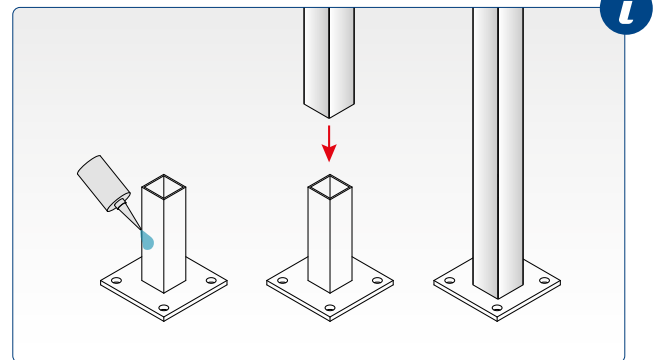


AISI304	AISI316	FOR TUBE A	DIMENSION B	EXTERNAL HOLES
E02050	E02050316	40 x 40mm	100 x 100mm	4 x Ø 11mm

Anchor for tube, satin finish

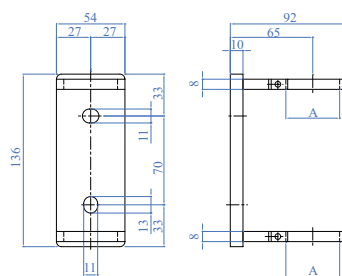
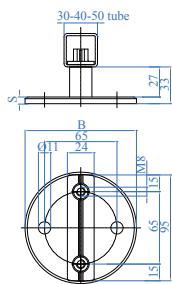


AISI304	AISI316	FOR TUBE
E4742/304	E4742	40 x 40 x 2.0mm

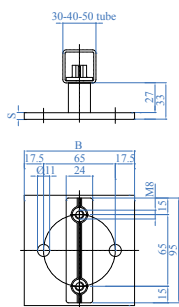


CUBE SYSTEM - LATERAL ANCHORAGE

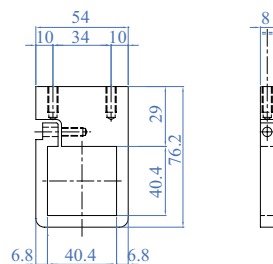
LATERAL ANCHORAGES



AISI304	AISI316	FOR TUBE A	DISC
E1110	E1110316	Flat face	Ø 100 x 6mm



AISI304	AISI316	FOR TUBE A	B	S
E1120/304	E1120	40 x 40 x 2.0mm	100 x 100mm	6mm



AISI316	FOR TUBE A
E117300	40 x 40mm



19 CUBE SYSTEM - HANDRAIL SUPPORTS

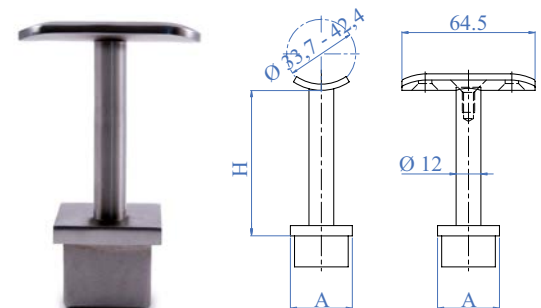
AISI316	FOR HANDRAIL	FOR SQUARE TUBE
E037900	Flat	40 x 40 x 2.0mm
E037910	Ø 33.7mm - Ø 42.4mm	40 x 40 x 2.0mm

Technical drawing of a T-shaped metal part. The drawing includes a 3D perspective view on the left and two 2D cross-sectional views on the right. The 2D views show the following dimensions:

- Top flange width: 25 (left view) and 64.5 (right view)
- Stem width: 14 (left view)
- Stem height: H (left view)
- Base width: 40 (left view)

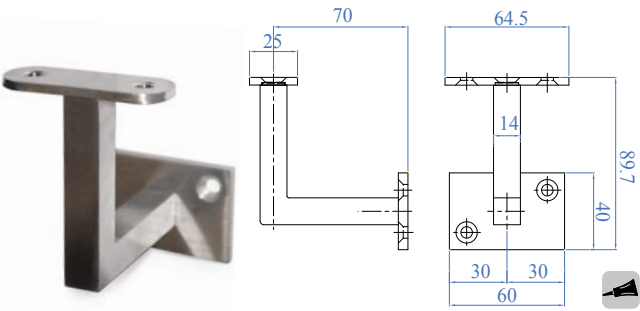
The 3D model shows a T-shaped metal part with a flat top flange, a central stem, and a rectangular base. The part is shown in a perspective view.

AISI304	AISI316	HEIGHT H	FOR HANDRAIL	FOR SQUARE TUBE A
E037300	E037310	75mm	Flat	40 x 40 x 2.0mm
E037400	E037410	75mm	Ø 33.7 - Ø 42.4mm	40 x 40 x 2.0mm

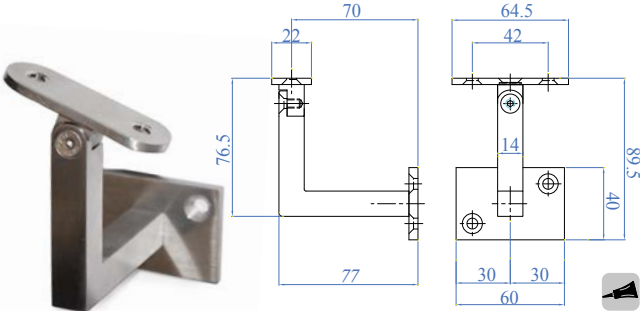


AISI303	AISI316	HEIGHT H	FOR HANDRAIL	FOR SQUARE TUBE A
E037600	E037610	75mm	Ø 42.4mm	40 x 40 x 2.0mm

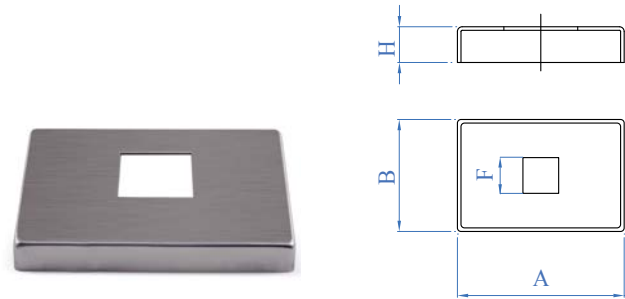
CUBE SYSTEM - HANDRAIL SUPPORTS



AISI304	AISI316	FOR HANDRAIL
E036300	E036310	Flat
-	E036410	Ø 33.7 - Ø 42.4mm



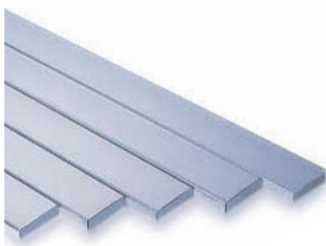
AISI304	AISI316	FOR HANDRAIL
E036500	E036510	Flat
E036600	-	Ø 33.7 - Ø 42.4mm



AISI304	AISI316	DIMENSIONS A x B	HOLE F	HEIGHT H
E036700	E036710	70 x 47mm	15mm	15mm

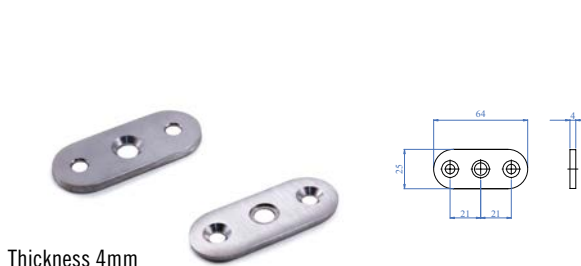


CUBE SYSTEM - FLAT BAR & MOUNTING PLATES



AISI304	DIMENSIONS	WEIGHT
EP15X5	15 x 5 x 4000mm	2.36 kg

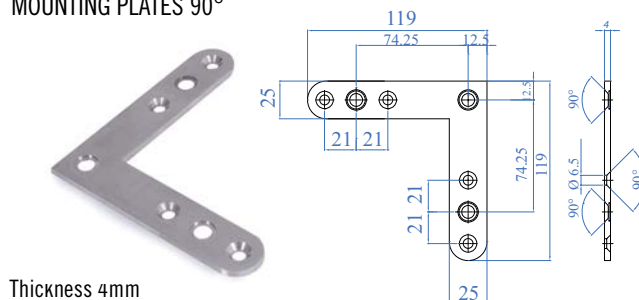
MOUNTING PLATES



Thickness 4mm

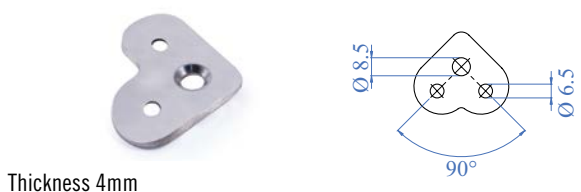
AISI304	AISI316	FOR TUBE
E011976	E011976316	Flat face

MOUNTING PLATES 90°



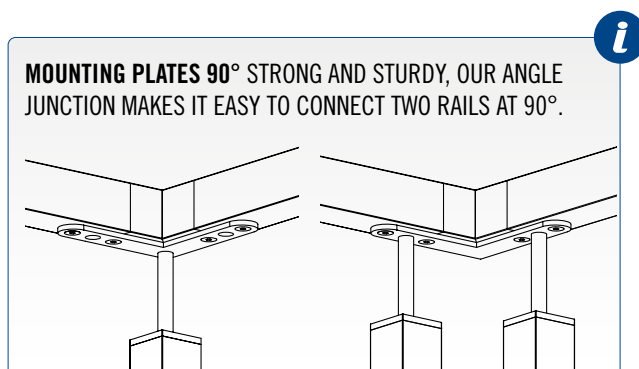
Thickness 4mm

AISI304	AISI316	FOR TUBE
E011977	E011977316	Flat face



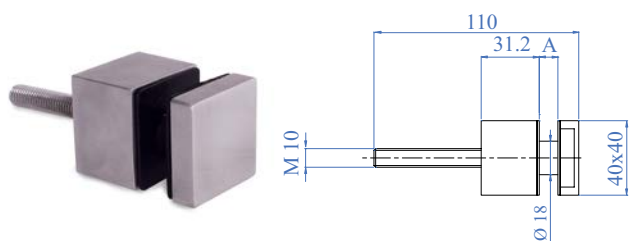
Thickness 4mm

AISI304	AISI316	FOR TUBE
E011970	E011970316	Flat face



CUBE SYSTEM - WALL GLASS CLAMP

Square support complete with threaded screw and glass attachment

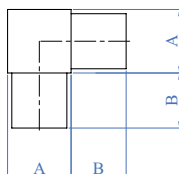


AISI304	GLASS THICKNESS A
E004720185	From 8 to 12.76mm



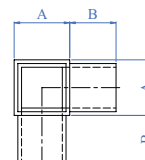
CUBE SYSTEM - FITTINGS

90° Elbow, for square tube, satin finish



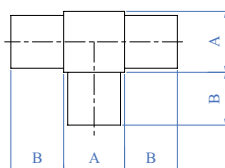
AISI304	AISI316	FOR TUBE A	B
-	E4711	25 x 25 x 2.0mm	20mm
E4713/304	E4713	40 x 40 x 2.0mm	25mm

3-way corner, for square tube, satin finish



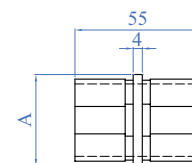
AISI304	AISI316	FOR TUBE A	B
E4723/304	E4723	40 x 40 x 2.0mm	25mm

'T' connector, for square tube, satin finish



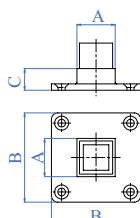
AISI304	AISI316	FOR TUBE A	B
-	E4730	20 x 20 x 1.5mm	20mm
-	-	30 x 30 x 2.0mm	25mm
E4733/304	E4733	40 x 40 x 2.0mm	25mm

Straight connector for square tube



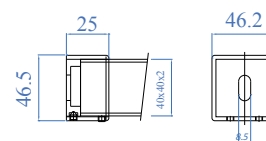
AISI316	FOR TUBE A
E4760	40 x 40 x 2.0mm

Anchorage for handrail



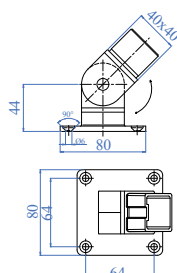
AISI316	FOR TUBE A	B	C
E4700	30 x 30 x 2.0mm	70mm	22mm
E4701	40 x 40 x 2.0mm	80mm	18mm

Anchor for tube, satin finish

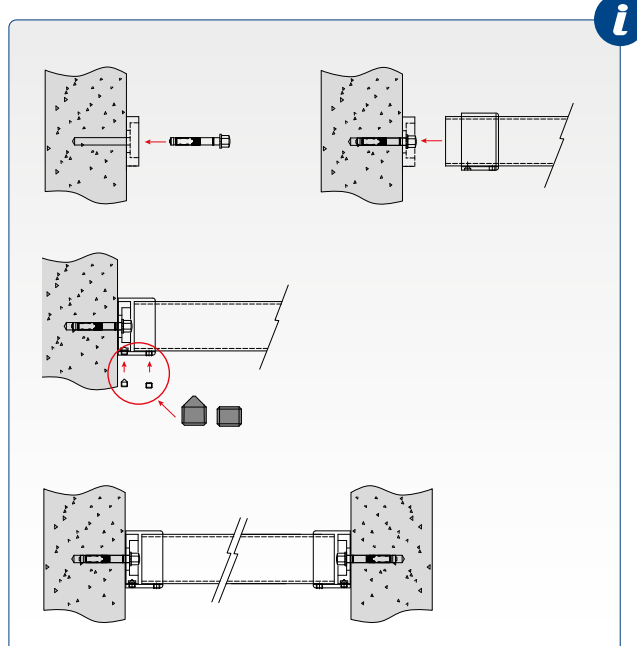


AISI316	FOR TUBE
E4740	40 x 40mm

Pivotal connector for square tube, satin finish

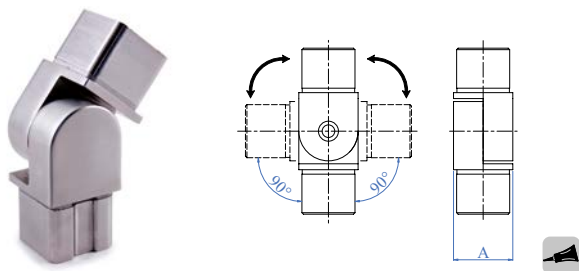


AISI316	FOR TUBE
E004720141	40 x 40 x 2.0mm



CUBE SYSTEM - FITTINGS

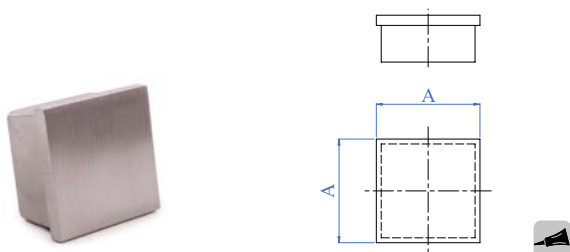
Pivotable connector for square tube, satin finish



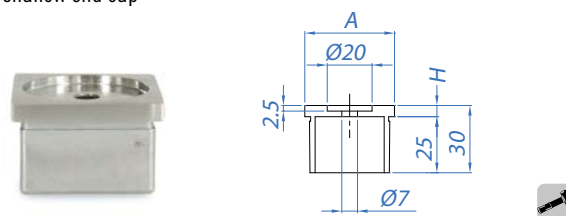
AISI316	FOR TUBE A
E4743	40 x 40 x 2.0mm

END CAPS FOR SQUARE TUBE

For square tube, satin finish

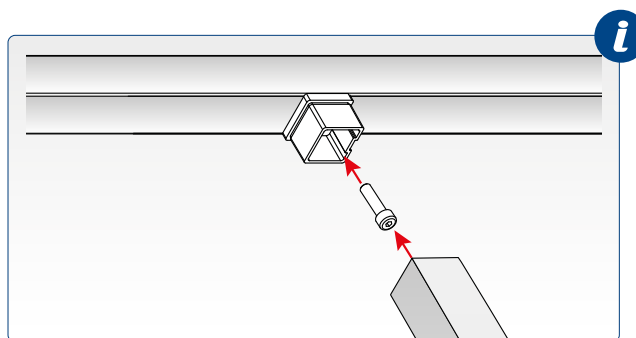


Square shallow end cap



AISI304	AISI316	FOR TUBE A x A
-	E4200	20 x 20 x 1.5mm
-	E4210	25 x 25 x 2.0mm
-	E4220	30 x 30 x 2.0mm
E4230/304	E4230	40 x 40 x 2.0mm
-	E4240	50 x 50 x 2.0mm
-	E4250	60 x 60 x 2.0mm

AISI304	AISI316	FOR TUBE A	H
E42302/304	E42302	40 x 40 x 2.0mm	5mm



20 CANOPIES

CANOPY KIT - POINT F	190 - 191
COMPLETE CANOPIES	192 - 193
ACCESSORIES FOR MODELS 1-2-3	194
TUBE CANOPIES	195
NEW SMARTGLASS CANOPY	196 - 197
INSTALLATION	198
LED COMPONENTS	199
LED CONNECTORS	200
REGULATIONS & CERTIFICATIONS	201



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



ANTI-CLIMB PRODUCT

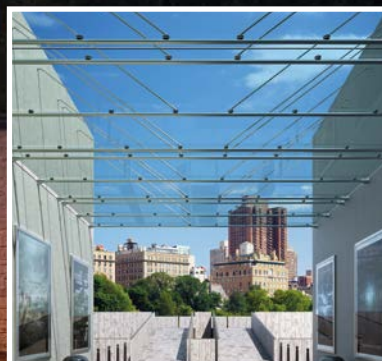
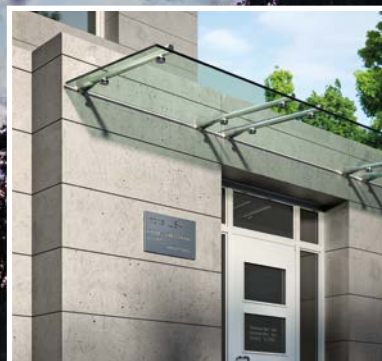
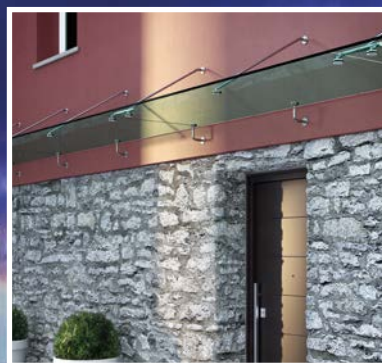


SUPER STRONG, HIGH RESISTANT PRODUCT

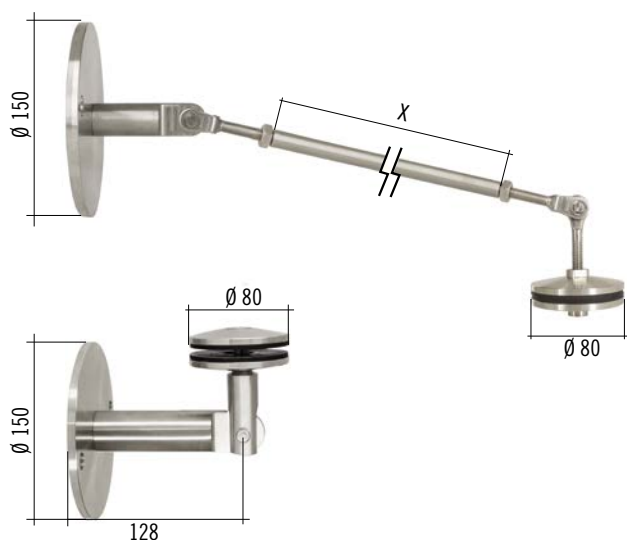


Aalco offers a range of canopies featuring a full kit of components to create glazed canopies with supporting metal rods or tube brackets. The classic lines and simplicity of design ensures a canopy that is not only functional but one which also adds to the aesthetics of any property. The canopies are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

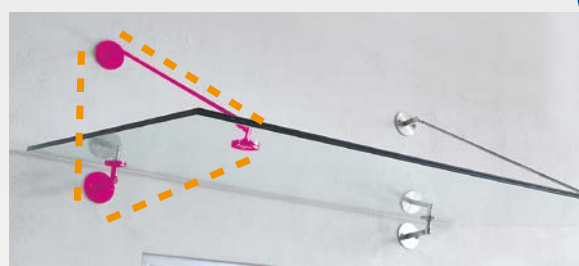


Glass not included

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

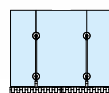
D = 1 UPPER WALL SUPPORT



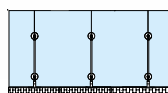
E

E = 1 LOWER WALL SUPPORT

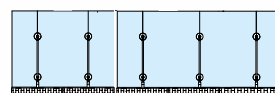
EXAMPLES OF KITS



2 KIT



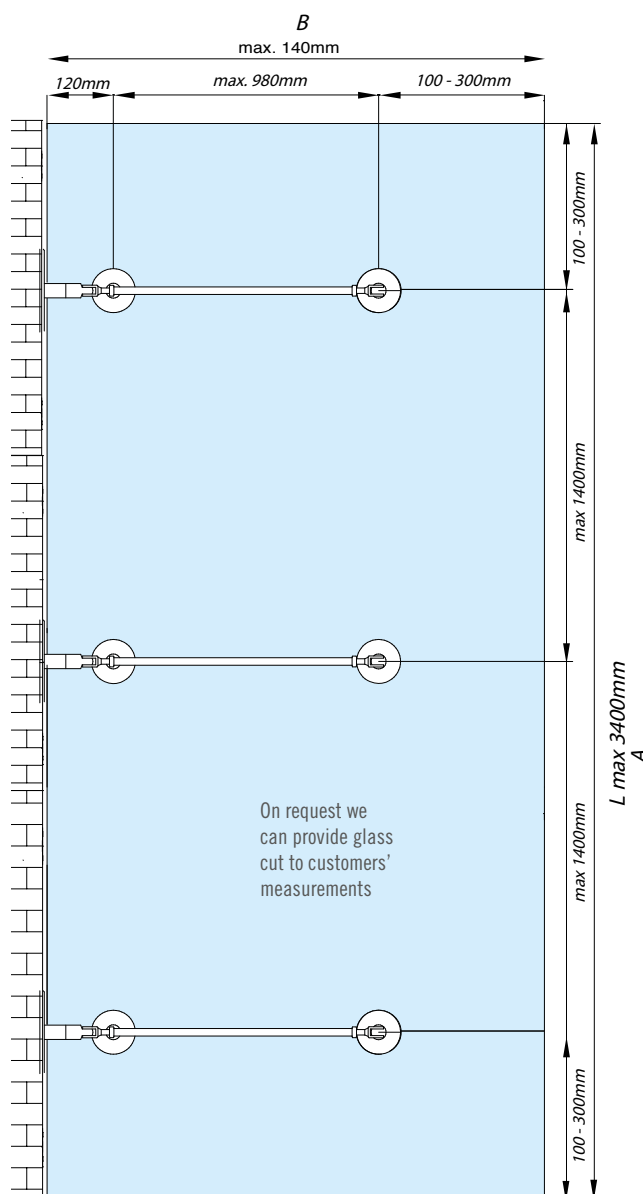
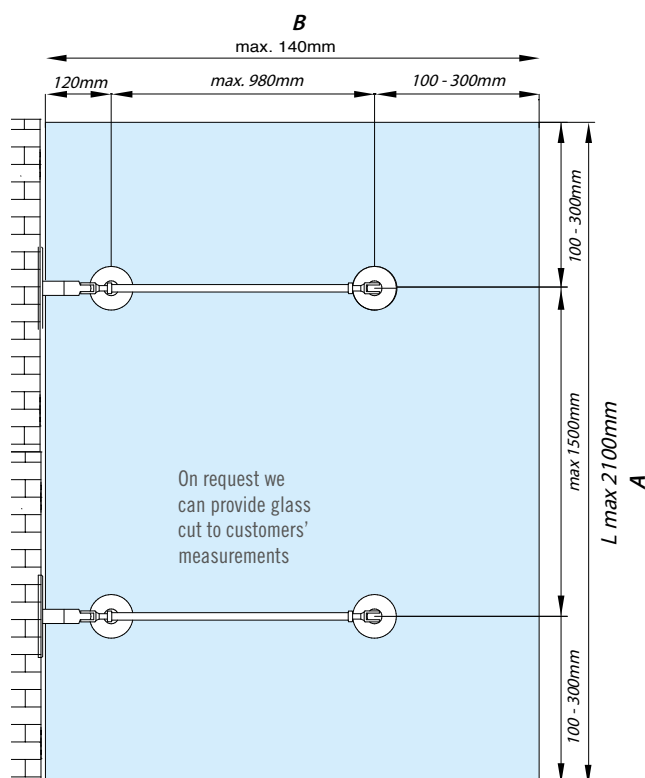
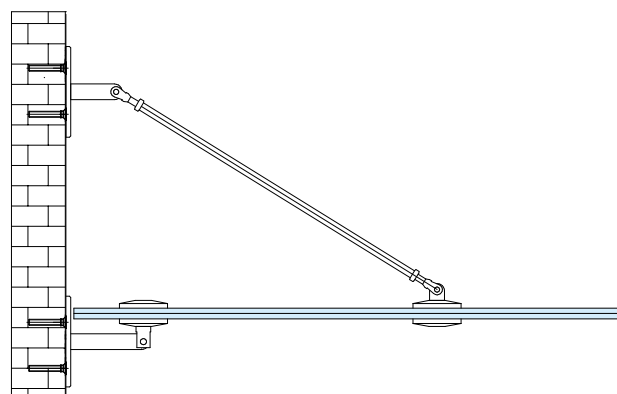
3 KIT



5 KIT

CANOPY KIT - POINT F

CONFIGURATIONS WITH TWO OR THREE TIE RODS



Two tie rods

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

Three tie rods

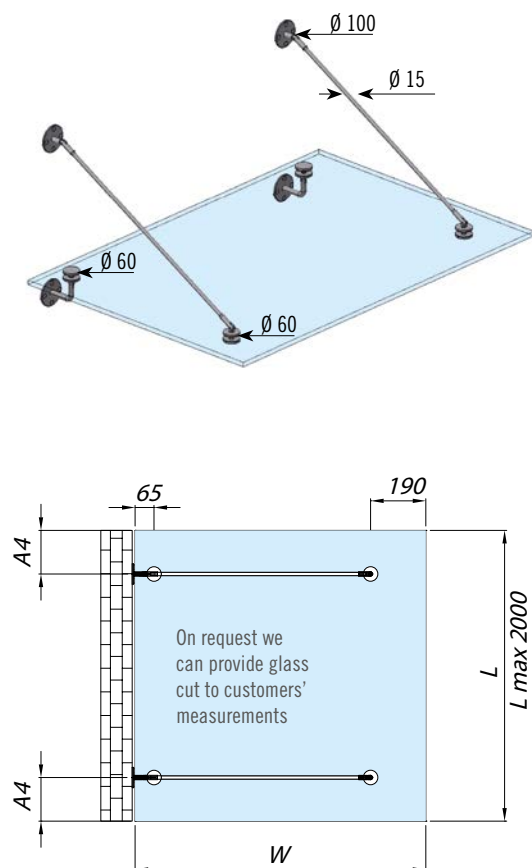
kN	max. A x B	VSG (+ PVB 1.52mm)	max. A2
1 kN/m ²	2900 x 1400mm	2 x TVG 8mm	1150mm
1 kN/m ²	3400 x 1400mm	2 x TVG 10mm	1400mm
2 kN/m ²	2600 x 1400mm	2 x TVG 10mm	1000mm
2 kN/m ²	2900 x 1400mm	2 x TVG 12mm	1150mm
3 kN/m ²	2700 x 1400mm	2 x TVG 12mm	1050mm

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

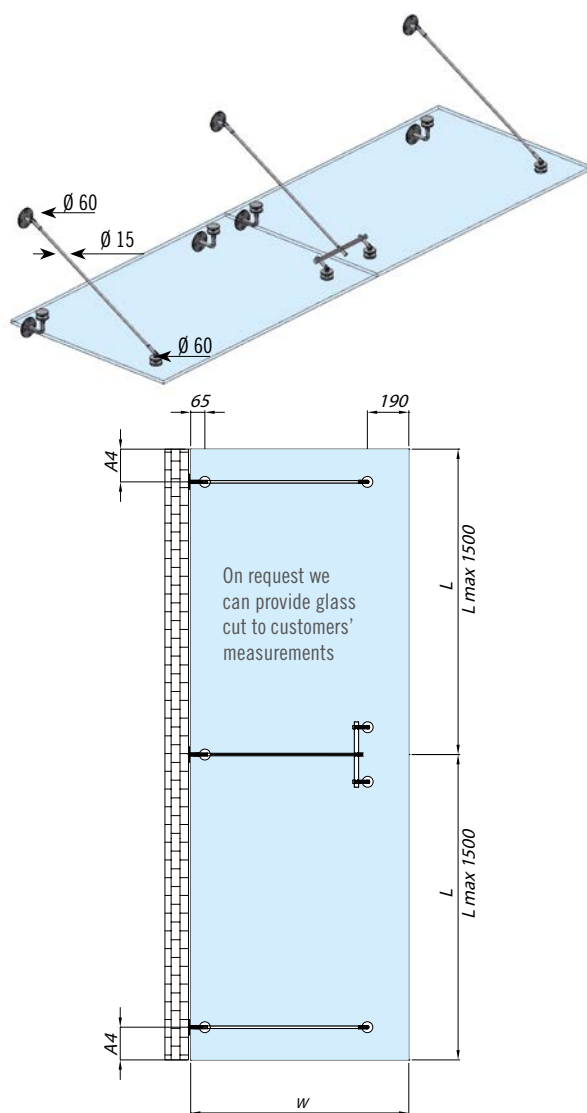


TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

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



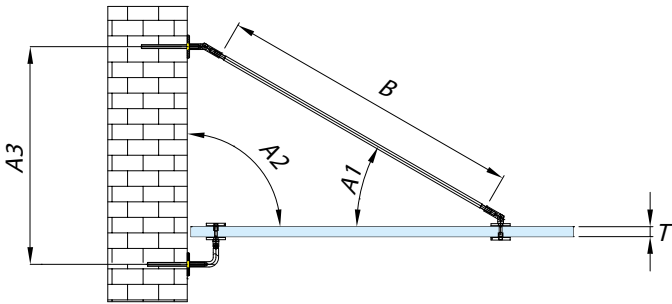
TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

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

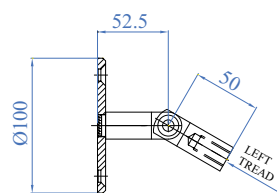
W 1500mm (TESTED WITH L MAX = 3000mm)

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



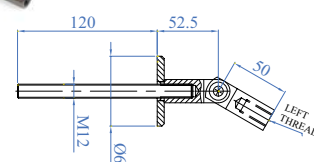
CANOPIES - ACCESSORIES FOR MODELS 1-2-3

ACCESSORIES



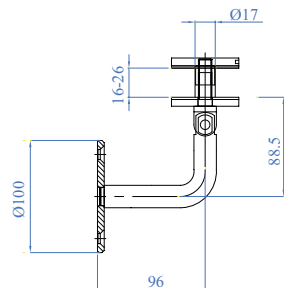
AIS1316 DESCRIPTION

E96100 Wall fixing for tie rod with flange



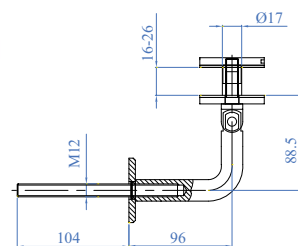
AIS1316 DESCRIPTION

E96300 Wall fixing for tie rod with threaded bar



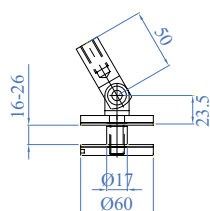
AIS1316 DESCRIPTION

E96200 Glass support with flange



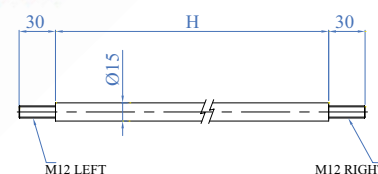
AIS1316 DESCRIPTION

E96400 Glass support with threaded bar



AIS1316 DESCRIPTION

E97100 Glass support

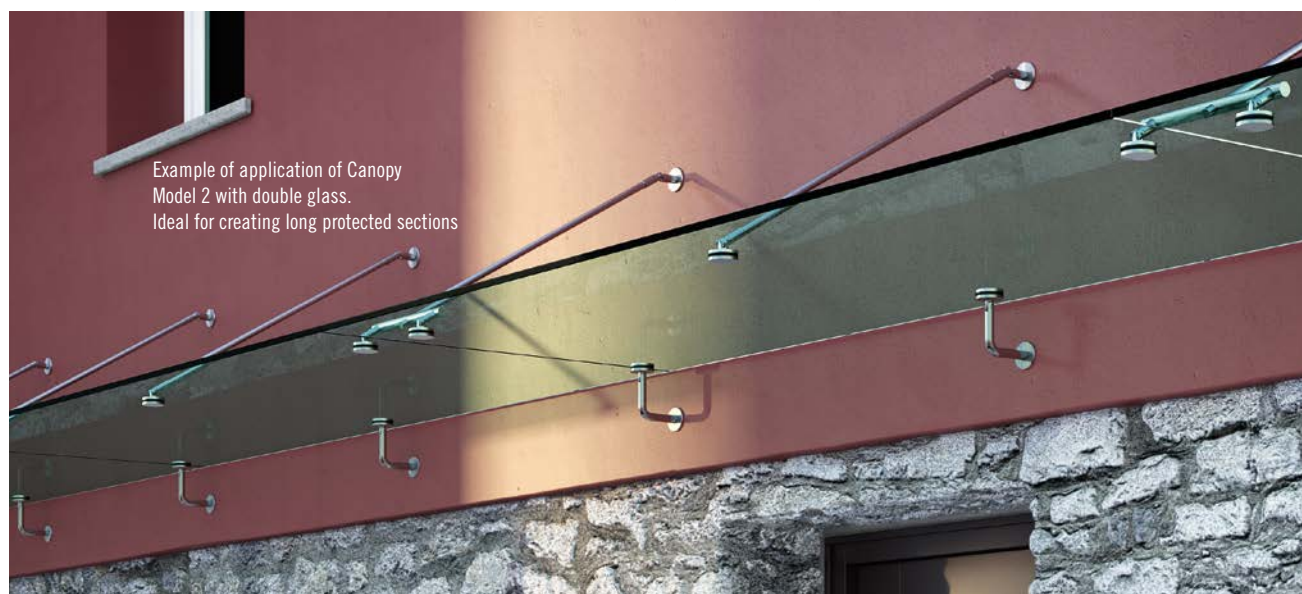


Double threaded tie rod

AIS1316 H

E98100 775mm

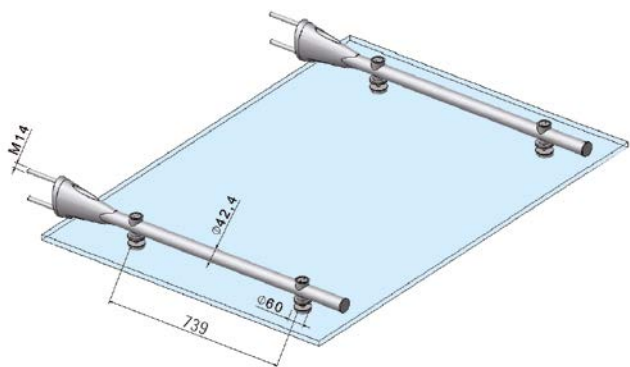
E98200 1350mm



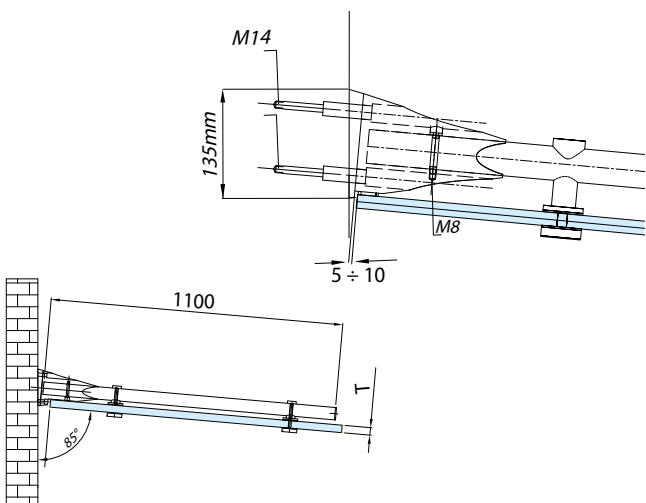
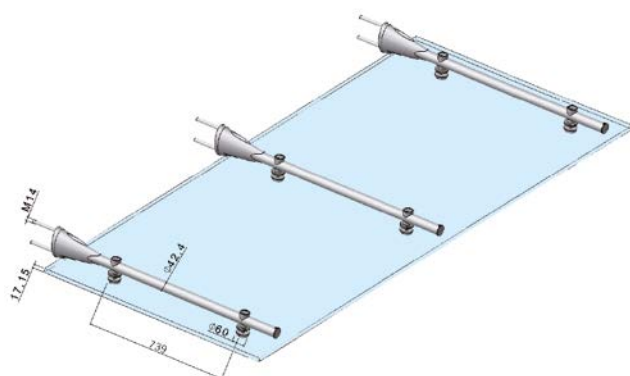
Example of application of Canopy Model 2 with double glass.
Ideal for creating long protected sections

TUBE CANOPIES

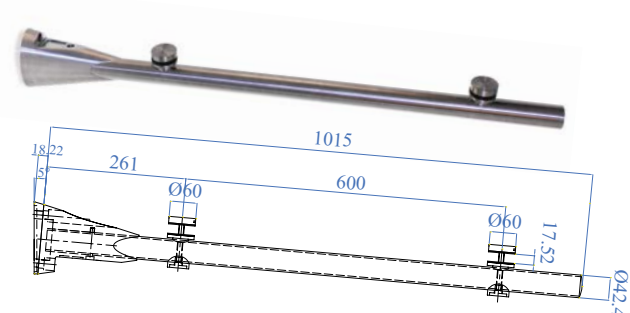
TUBE CANOPY WITH TWO BRACKETS



TUBE CANOPY WITH THREE BRACKETS



WALL SUPPORT



GLASS CAN BE SUPPLIED ONLY IF REQUESTED TOGETHER WITH THE CANOPY



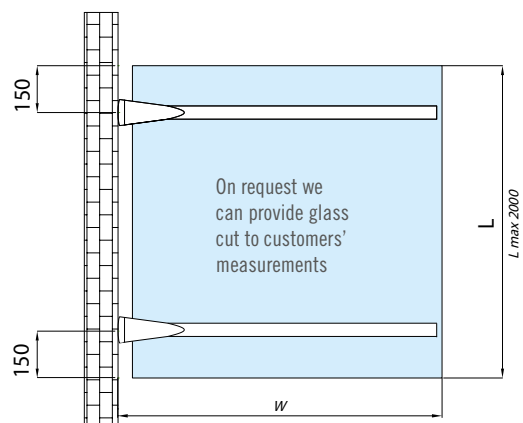
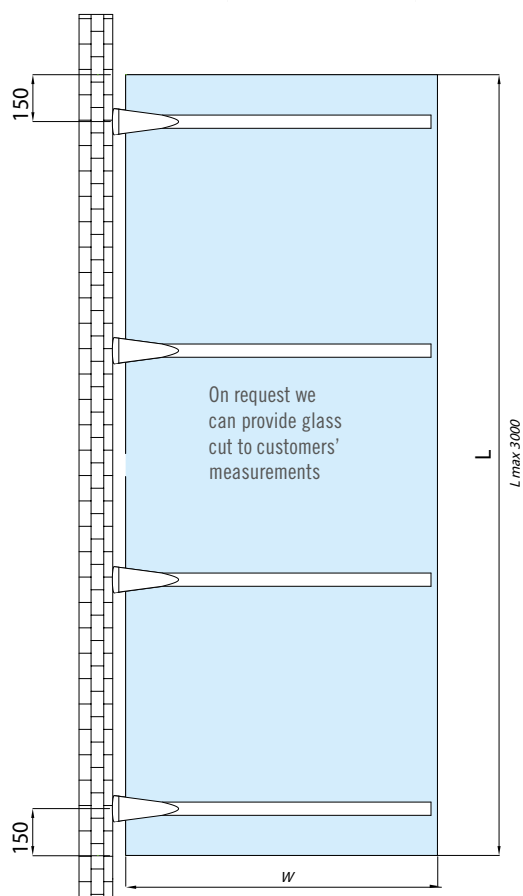
AISI316

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.

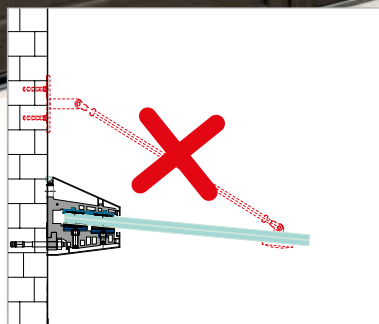
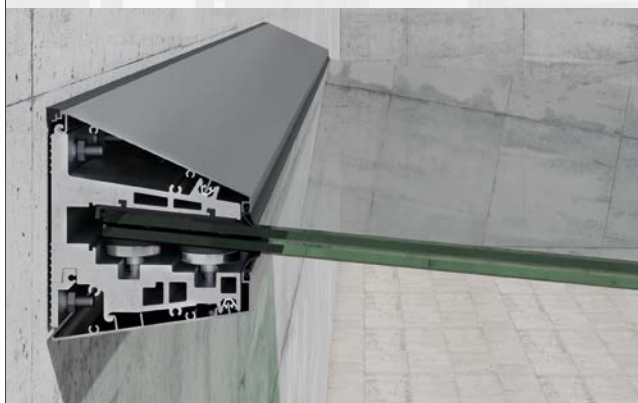
TEST RESULTS WITH TEMPERED AND LAMINATED GLASS

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

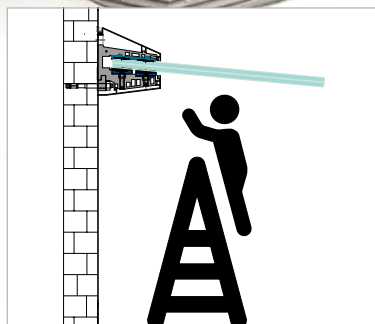


SMARTGLASS

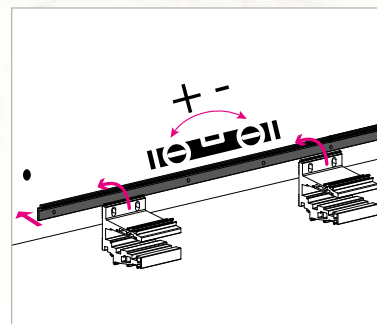
NEW to the range is the SMARTGLASS canopy designed by IAM Design. The use of flat supports and screws creates an invisible fixing in the lower part of the structure to ensure an elegant and discrete canopy.



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

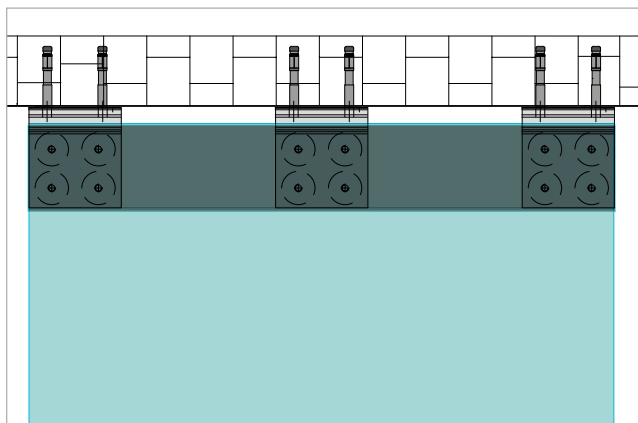


The fixing of this canopy is all done from the underside, ensuring limited use of ladders and scaffolding compared to other canopy systems currently on the market.

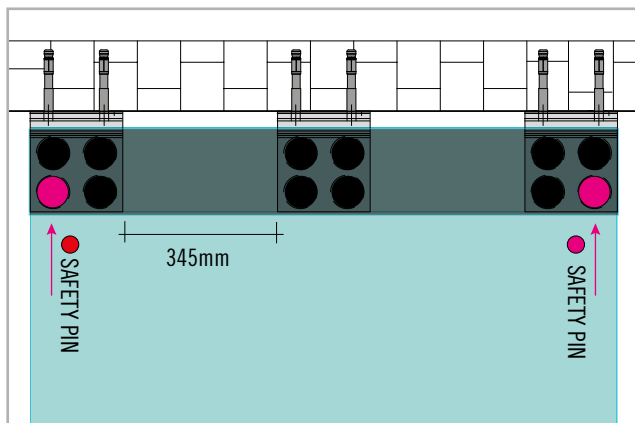


The alignment of the SMARTGLASS canopy is easy thanks to the alignment brackets that allow the system to be levelled before installing the glass support clamps.

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

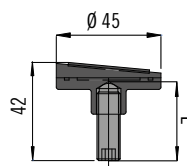
Glass not included



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

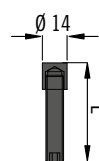
ALUMINIUM	GLASS THICKNESS	LENGTH
E95915	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	1500mm
E95900	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	2000mm
E95910	16.76 - 17.52 - 20.76 21.52 - 24.76 - 25.52mm	3000mm

LOOSE COMPONENTS



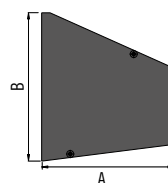
Glass fixing pad

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

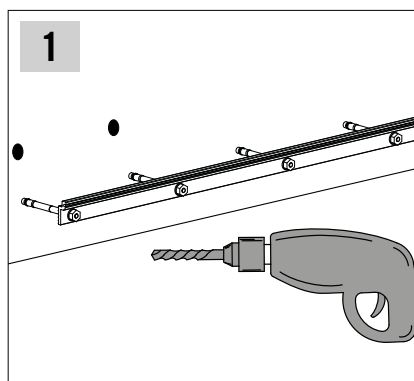
ALUMINIUM	LENGTH L
C	E95780 56mm



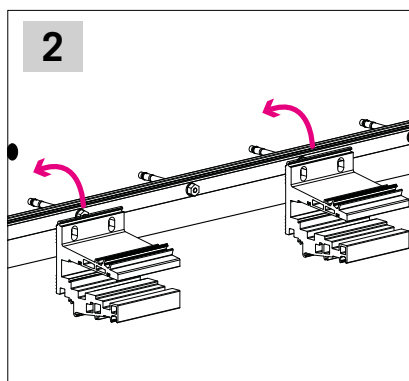
End cap

ALUMINIUM	DIMENSIONS A x B
E95750	142 x 160mm

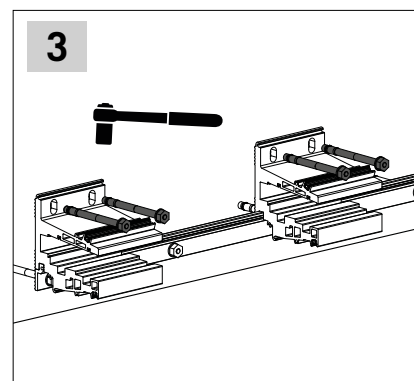
CANOPIES - SMARTGLASS INSTALLATION



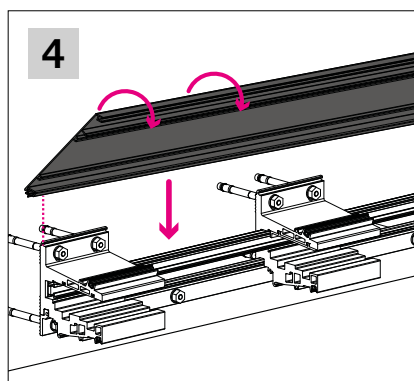
Drill holes in the wall and secure the lower support brackets.



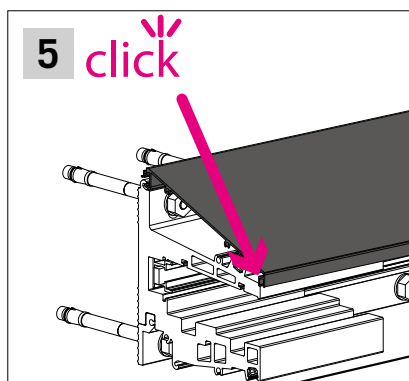
Mount the upper modules by connecting them to the bracket; maximise horizontal movement.



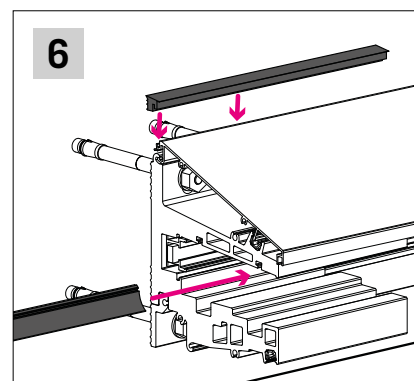
Fasten the units with the appropriate fixings.



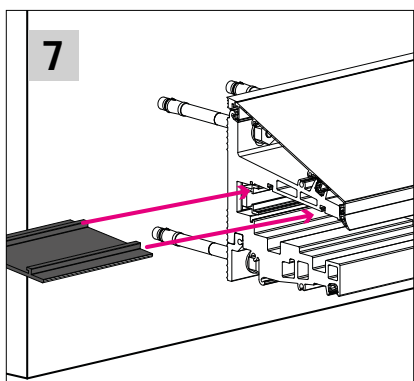
Secure the upper cover with one rotation on the indicated pin.



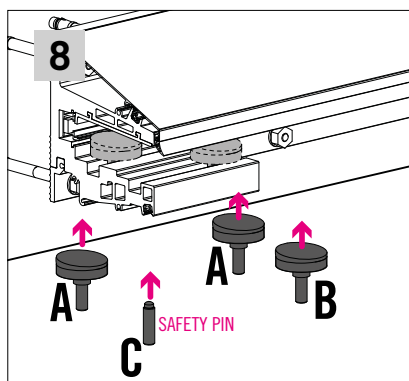
CLICK sound means the cover is correctly located.



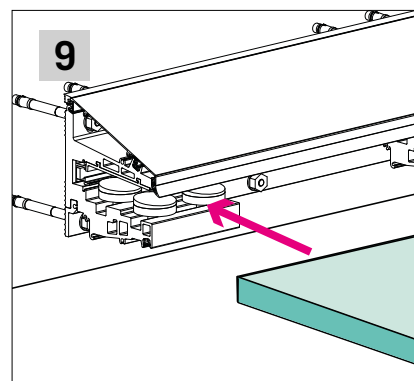
Insert gaskets adjacent to the wall for proper glass installation.



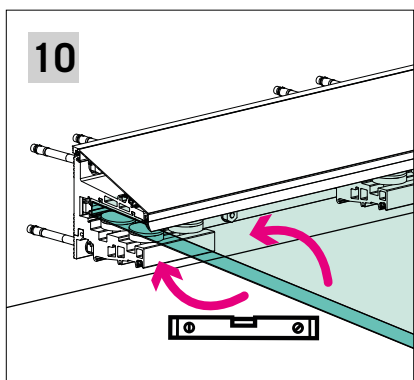
Insert the top gasket



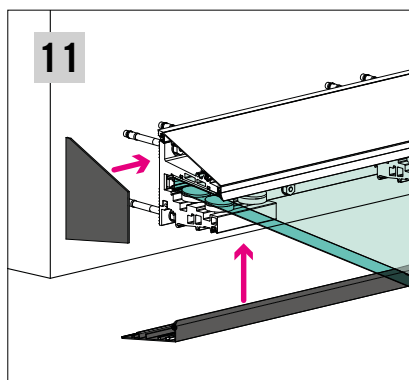
Insert gaskets and adjustable glass fixing systems. Use of safety pins is recommended.



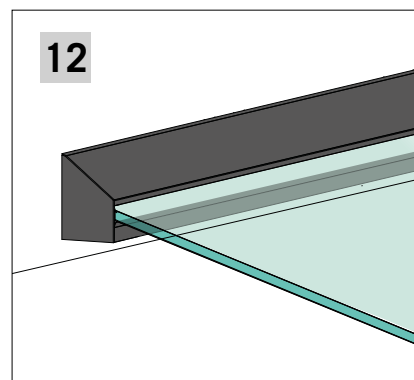
Insert the glass inside the canopy. Slide the glass until it touches the stop. Gasket just inserted.



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



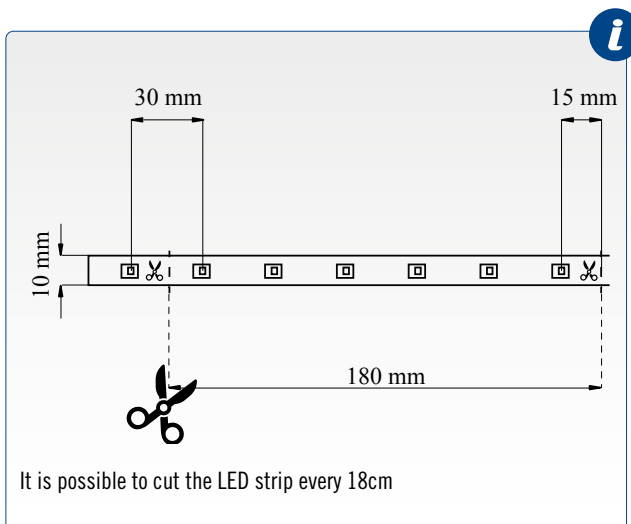
PVC	LENGTH
ELED0014	2000mm

Double sided adhesive tape

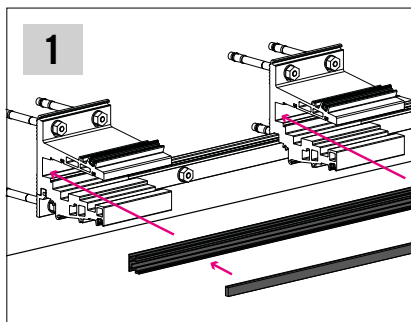


BI-ADHESIVE TAPE	COIL LENGTH	DIMENSIONS
E1999892	33m	15 x 1.5mm

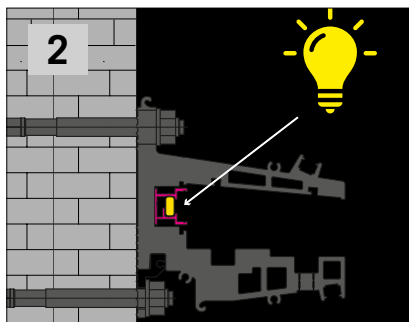
Input voltage	24 V
Input current	154 mA
Power	from 3.2 to 4 W/m
Weight	60 g/m
Life time	35,000h
Beam angle	110°
Luminosity /m	198 lm
CRI	72
Colour temperature	3000°K
No. Led /18cm	6
Operating T°	-20 C° + 50 C°
Use	Indoor/outdoor



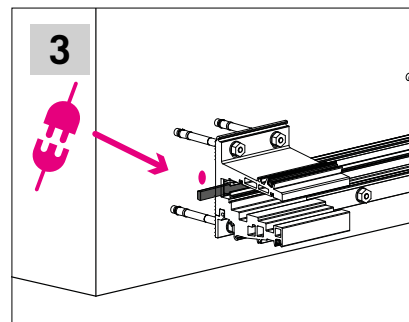
APPLICATION OF THE LED STRIP



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

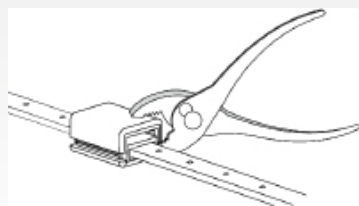
DESCRIPTION

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

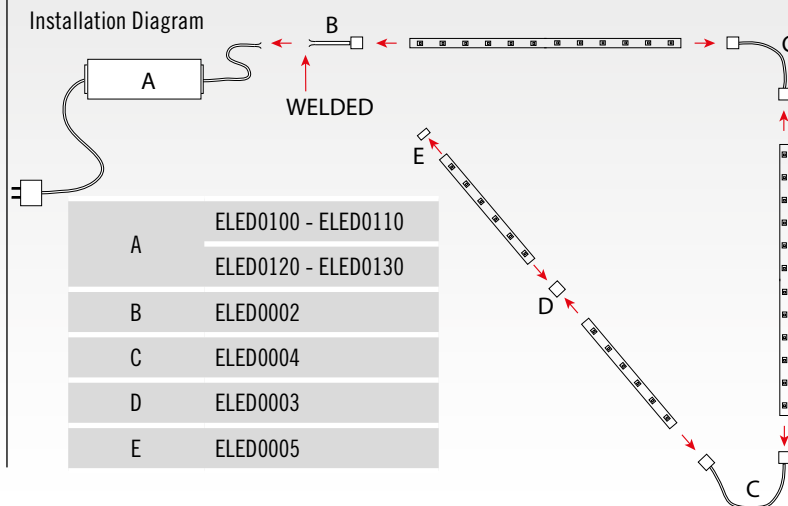
Feeders

	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

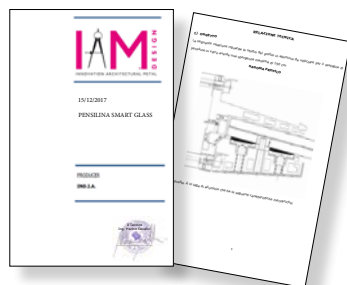
The SMARTGLASS canopy has been designed to withstand various static stresses due to snow or wind load.

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

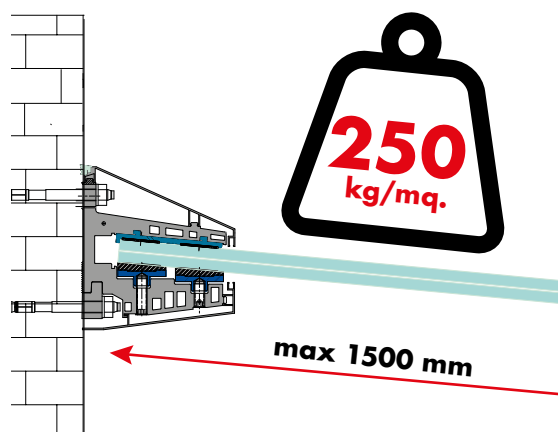


CONSECUTIVE
TESTING DAYS



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.

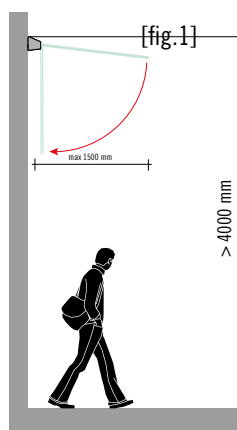
IN CASE OF ACCIDENTAL BREAKAGE OF THE GLASS SHEETS



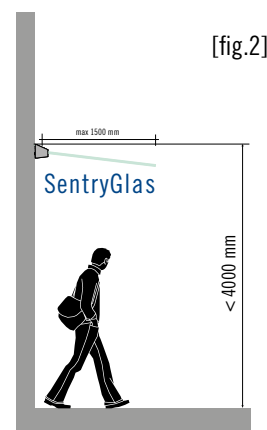
For safety reasons, if the tempered glass panel has a standard PVB, we recommend installation of the canopy at a height of more than 4 metres. [fig.1]

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



21 ACCESSORIES

ACCESSORIES	204
FASTENERS	205
CLEANING PRODUCTS	206

21 ACCESSORIES



RUBBER MALLET TO BE USED



PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



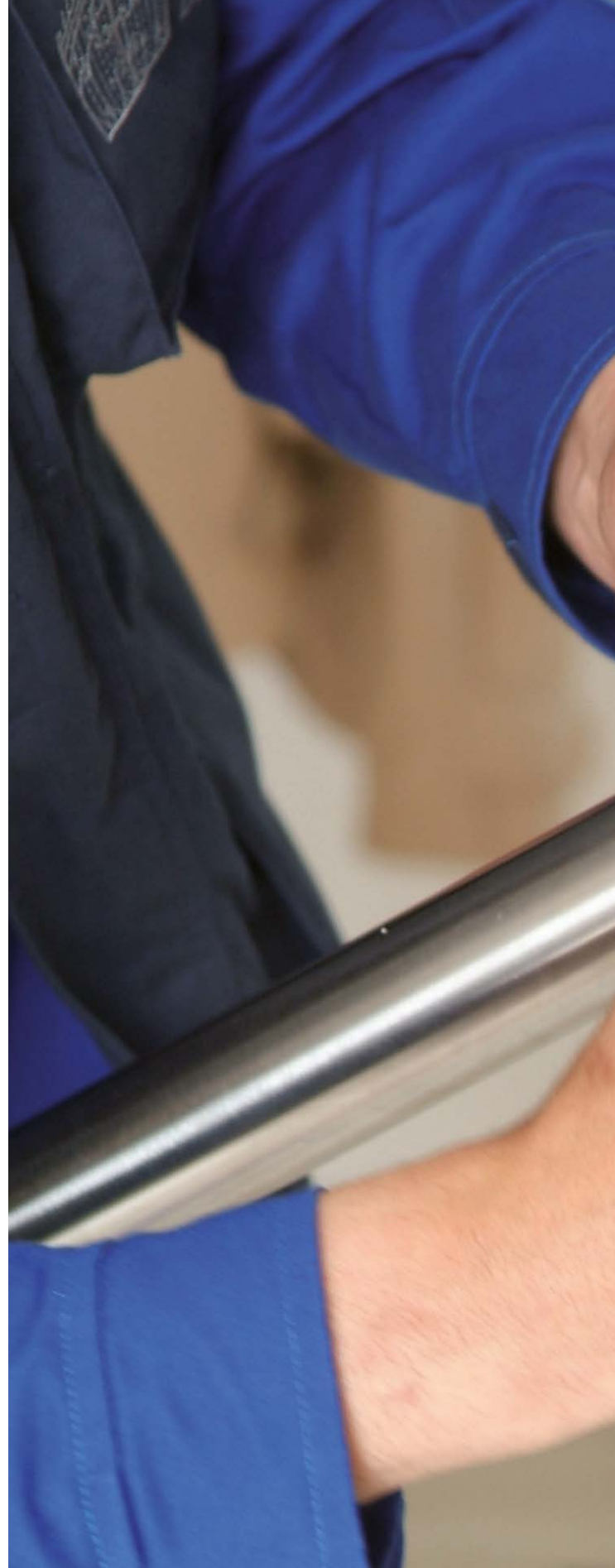
PRODUCT TO BE WELDED



ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT





ACCESSORIES

Drilling template, patented for tubes Ø 33.7 - 42.4 - 48.3mm, this equipment allows you to drill holes Ø 7 - 9 - 11mm for threaded inserts and holes for M5 - M6 - M8 threadings.



CODE NO.

E40580

Plastic box containing tool with M5, M6, M8 mandrels and heads. Riveting tool for threaded inserts M5, M6, M8.



CODE NO.

E40590



Mandrels for riveting tool



CODE NO.	THREAD
E40590/M5	M5
E40590/M8	M8

Spray on zinc to retouch welding spots. Use with Systema Iron



CODE NO.

185/9

Threaded inserts for riveting tool



AISI304	THREAD
E40591	M5
E40592	M6
E40593	M8

Adjustable wrench to tighten rods and suspended steps



Art. no.	FOR DIAMETER
E40790	15 - 35mm
E40791	36 - 50mm
E40792	51 - 80mm

10 scotch brite cloths



CODE NO.

E40586

ACCESSORIES - FASTENERS

CODE NO.	Material	Min purchase pc.	Ø/Dia. Tip mm d_0	Min. Hole Depth mm h_2	Dowel Length mm l	Max. Fixing Thickness Dowel Length mm t_{fix}	Screw Imprint
----------	----------	------------------	------------------------	-----------------------------	------------------------	--	---------------



I038810100	Galvanised steel	50	10	110	100	30/10	T40 ☼
I038810120	Galvanised steel	50	10	130	120	50/30/10	T40 ☼
I038810140	Galvanised steel	50	10	150	140	70/50/30	T40 ☼
E038810100	AISI 316 [A4]	50	10	110	100	30/10	T40 ☼
E038810120	AISI 316 [A4]	50	10	130	120	50/30/10	T40 ☼
E038810140	AISI 316 [A4]	50	10	150	140	70/50/30	T40 ☼



I0370	Galvanised steel	50	8	100	90	40	SW13/TX40
I0371	Galvanised steel	50	10	130	120	65	SW15
I0370316	AISI 316 [A4]	25	8	100	90	40	SW13/TX40
I0371316	AISI 316 [A4]	25	10	130	120	65	SW15



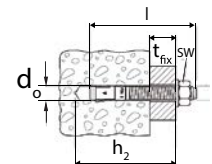
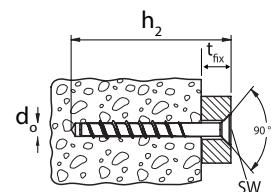
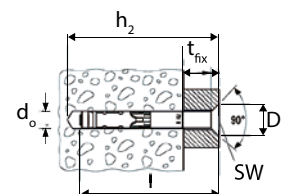
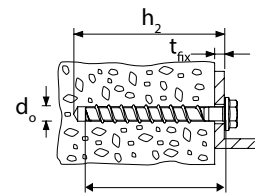
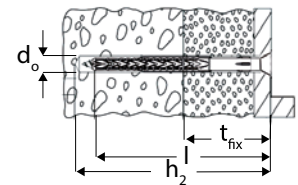
I0343	Galvanised steel	25	12	130	125	50	5 SW ☼
E0343316	AISI 316 [A4]	25	12	130	125	50	6 SW ☼



I0341	Galvanised steel	50	8	100	90	40	TX40 ☼
I0342	Galvanised steel	50	10	130	120	65	TX50 ☼
I0341316	AISI 316 [A4]	50	8	100	90	40	TX40 ☼
I0342316	AISI 316 [A4]	50	10	130	120	65	TX50 ☼



I0346	Galvanised steel	50	8	106	111	50/60	13-SW
I0345	Galvanised steel	20	10	118	126	50/60	17-SW
I0347	Galvanised steel	20	12	115	126	30/45	19-SW
I0346316	AISI 316 [A4]	50	8	106	111	50/60	13-SW
I0345316	AISI 316 [A4]	20	10	118	126	50/60	17-SW
I0347316	AISI 316 [A4]	20	12	115	126	30/45	19-SW



FIP C 700 HP / T-BOND injection chemical system

Hybrid polyester resin for structural applications on brickwork (full and pierced bricks)



ANCHORING MATERIALS

Anchorings for:

- Full brick in brick and calcium silicate
- Semi - full brick (vertically pierced)
- Hollow block in normal concrete
- Hollow block in lightened concrete

Suitable for non structural applications:

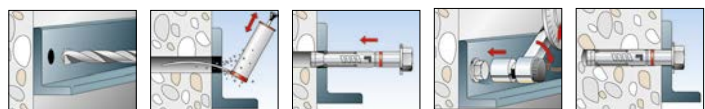
- Concrete not cracked
- Compact natural stone

OPERATION

FIP C700 HP / T-BOND are injection chemical anchorings - two-component, polyester-based hybrids.

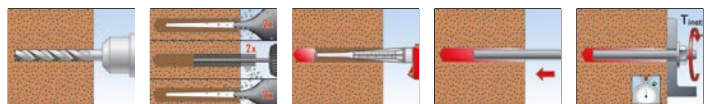
- Resin and hardener are located in separate containers and are not blended or activated as long as extrusion takes place through the mixer.
- Before installing, clean the hole according to recommendations below.
- Extrude FIP C700 HP / T-BOND chemical anchorings without air bubbles, starting from hole bottom.
- Chemical anchoring firmly connects the entire accessory surface side with the hole surface side by sealing it.
- Different-sized cartridges are easily and quickly accessible with fisher dispensers.
- Partially used cartridges can be used by replacing the mixer.

Expansion metallic anchorings



FIP C 700 HP / T-BOND injection chemical system

FIS A installation in full bricks



ACCESSORIES - CLEANING PRODUCTS

CLEANING PRODUCTS FOR STAINLESS STEEL

Degreaser spray for cleaning all metal surfaces.



CODE NO.

E4051

Leaves a thin antistatic and water-repellent coat on treated metallic surfaces. Recommended for use on finished products



CODE NO.

E4052

Threadlocking

High-strength adhesive



CODE NO.

E4053



CODE NO.

E4054

De-rusting solution for stainless steel. It is a powerful degreasing product to clean up traces of iron from stainless steel surfaces. It cleans, protects and enhances the original brightness



1 Kg

CODE NO.

E4051/D

Product enough for approx 2m²

Passivating product for stainless steel. Its purpose is to create a protective oxide and chrome film on the stainless steel surface



1 Kg

CODE NO.

E4051/P

Product enough for approx 2m²

Stainless steel cleaning kit

Including:
250 g ultra active cleaner
250 g surface cleaner
2 special sponges
1 polishing cloth
1 pair of protective glasses
and instruction sheet



CODE NO.

E91901

HOW TO TREAT OXIDISED STAINLESS STEEL

Stainless steel is a lasting and reliable material. Nevertheless, it is necessary to treat it correctly in order to avoid its oxidation under specific conditions. In fact, stainless steel can oxidise in cases of: storage near iron elements; inadequate treatment during the assembly phase; use of the same tools used to work iron elements; urban pollution and dust; and proximity of companies working in the metallurgical field.

In order to meet the needs of its customers, Ind.i.a. spa created a range of specific items: a De-rusting (E4051/D) product for cleaning "polluted" stainless steel components and Passivating (E4051/P) product to restore their protective film.

The combined use of these products makes the 'renovation' of surfaces - even those which seem compromised - possible.



Example of a stainless steel picket polluted by external agents like dust and smog



Application of the De-rusting product E4051/D: all polluted parts must be covered



Application of the Passivating product E4051/P: polluted component must be entirely covered



Result of the application of De-rusting and Passivating products



**TO PLACE AN ORDER CONTACT YOUR
LOCAL SERVICE CENTRE**



www.aalco-handrail.com

22 TECHNICAL INFO

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22 TECHNICAL INFO



ECO-FRIENDLY - 100% RECYCLABLE

Aalco steel elements are 100% recyclable: they can be recycled to produce new objects.





K2 PROTECTION FROM FALLING

Siting of pedestrian guarding

For all buildings

3.1 Provide guarding in all of the following locations:

- where it is reasonably necessary for safety to guard the edges of any part of a floor (including the edge below an opening window), gallery, balcony, roof (including roof lights and other openings), any other place to which people have access, and any light well, basement or similar sunken area next to a building.
- in vehicle parks.

NOTE: You do not need to provide guarding in the following locations:

- on ramps used only for vehicle access
- in places such as loading bays where it would obstruct normal use.

Design of guarding

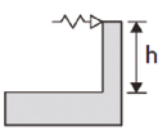
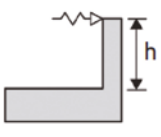
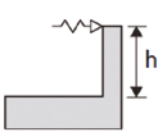
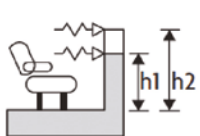
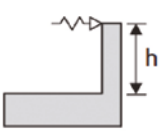
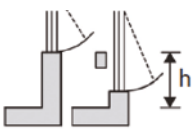
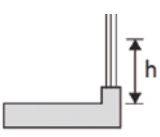
For all buildings

3.2 Guarding should be provided in accordance with all of the following.

- Ensure that guarding is, as a minimum, the height shown in Diagram 3.1.
- You can use any wall, parapet, balustrade or similar obstruction as guarding.
- Ensure that guarding can resist, as a minimum, the loads given in BS EN 1991-1-1 with its UK National Annex and PD 6688-1-1.

NOTE: Typical locations for guarding are shown in Diagram 3.2. For further guidance on the design of barriers and infill panels, refer to BS 6180.

Diagram 3.1 Guarding design

Building Category and location See paras 3.2 and 3.4		Height (h)	
Single family dwellings	Stairs, landings, ramps, edges of internal floors	900mm for all elements	
	External balconies, including Juliette balconies and edges of roof	1100mm	
Factories and warehouses (light traffic)	Stairs, ramps	900mm	
	Landings and edges of floors	1100mm	
Residential, institutional, educational, office and public buildings	All locations	900mm for flights otherwise 1100mm	
Assembly	Within 530mm in front of fixed seating	800mm (h1)	
	All other locations	900mm for flights elsewhere 1100mm (h2)	
Retail	All locations	900mm for flights otherwise 1100mm	
Glazing in all buildings	At opening windows except roof windows in loft extensions, see Approved Document B1	800mm	
	At glazing to changes of levels to provide containment	Below 800mm	

K2 PROTECTION FROM FALLING

3.3 In a building that may be used by children under five years of age during normal use, guarding should be constructed in accordance with both of the following.

- To prevent children being held fast by the guarding: ensure that a 100mm sphere cannot pass through any openings in the guarding.
- To prevent children from readily being able to climb the guarding: avoid horizontal rails.

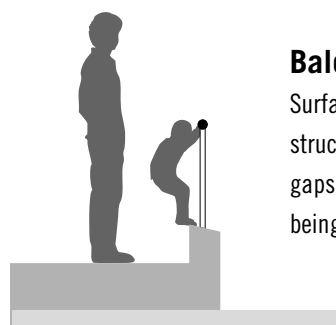
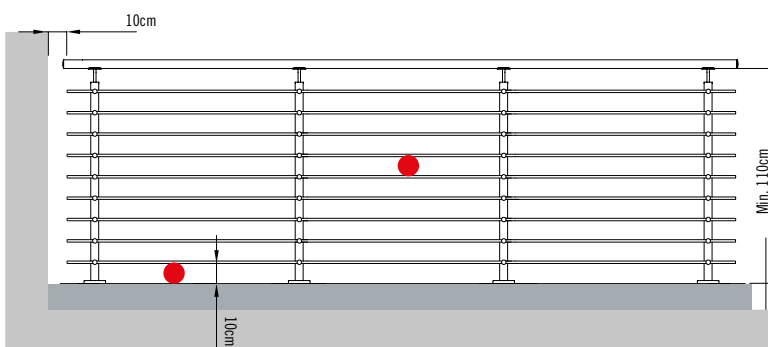
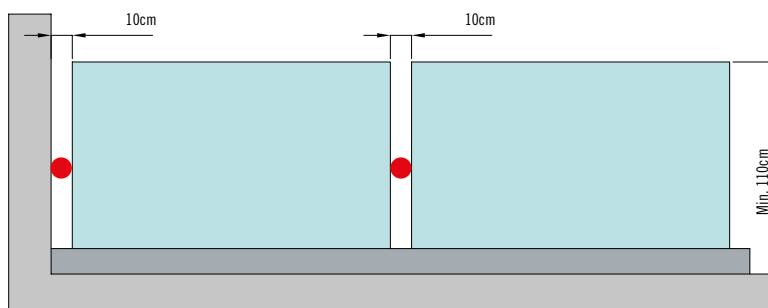
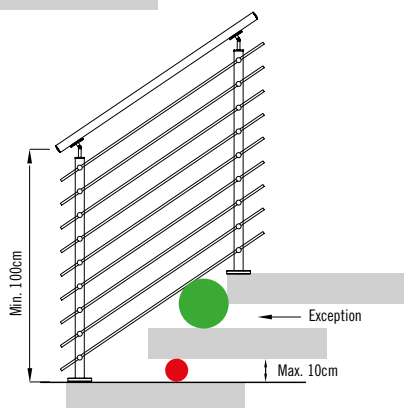
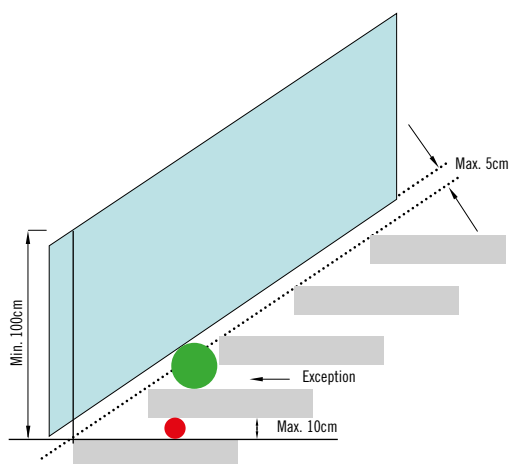
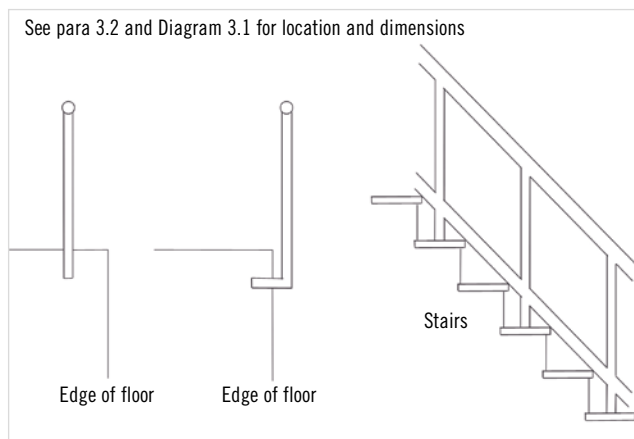
Guarding of areas used for maintenance For all buildings

3.4 Where people will use the stairs or ladders to access areas for maintenance they should comply with one of the following.

- If access will be required frequently (e.g. a minimum of once per month): follow provisions such as those suggested for dwellings in this Approved Document (see Diagram 3.1).
- If access will be required less frequently than once a month: it may be appropriate to use temporary guarding or warning notices. The Construction (Design and Management) Regulations 2007 and the Work at Height Regulations 2005 give provisions for such measures.

3.5 Use signs as specified in the Health and Safety (Safety Signs and Signals) Regulations 1996.

Diagram 3.2 Typical locations for guarding



Balconies & Regulations

Surfaces representing a fall risk from a height of 50cm or more must be safeguarded by a protective structure. The minimum height of the structure must be 100cm for stairs and 110cm for balconies, with any gaps between a maximum of 10cm. This is to prevent climbing from/onto the balcony and to avoid children being able to squeeze through gaps.



Achieving the highest standards in terms of quality and safety has always been a prime focus for us.

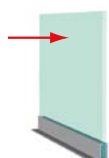
Our range of standard components have all been tested to exacting criteria, with full supporting test documentation available. We can also arrange for appropriate testing of bespoke manufactured products.

There is a dedicated test facility at IAM Design which is used to ensure that the systems and components meet the required functional and performance standards required. The tests are

conducted by qualified experts before, during and after production to ensure comprehensive analysis is achieved. The resulting data is then fed into ongoing research and development to further enhance the performance of our handrail systems.

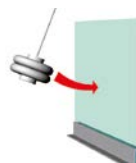
This in-house testing is also backed by third party certification whereby the products are submitted to independent test houses to ensure conformance with the appropriate standards. Certification has been achieved for the standards in force in many European countries.

Testing procedures are designed to cover a range of functional and performance criteria including:



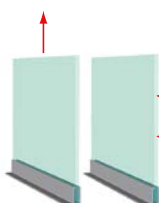
HORIZONTAL PRESSURE RESISTANCE

This test adopts the parameters required in Regulation (UN) eN 1991-1-2, UNI 10806: 1999 D.M 14/01/08. It examines the mechanical resistance to loads in railings, balustrades and balconies. Break loads are calculated by applying horizontal thrust forces up to the handrail for a defined time period.



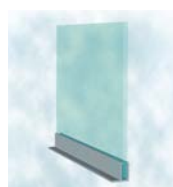
IMPACT RESISTANCE

This test requires a moving body to crash into the most critical point on a piece of glass held in position by Glass U profiles. The 1.5 metre long pendulum, weighing 50kg, passes through 30 degrees from the point of release to impact. The procedures for the test are contained within UNI EN 12600: 2004, while the mechanical resistance is covered under UNI 1087:1999.



TRACTION RESISTANCE

Based on the Regulation UNI 10808: 1999, this test is designed to calculate the mechanical resistance to loads in ready-made railings, balustrades and balconies, establishing the size, features and mechanical performance depending on their final use and location.



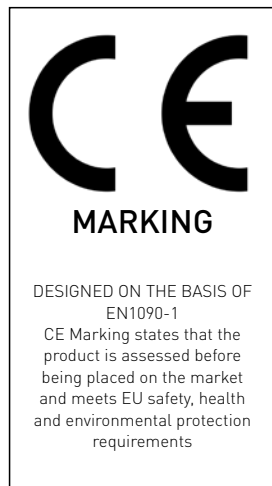
CORROSION RESISTANCE

Regulation UNI EN ISO 9227:2012 relates to this test which measures the effects of neutral salt mist (NSS), acetic salt mist (AASS) and cupro acetic salt mist (CASS) on metal products. It evaluates their corrosion resistance, with and without anti-corrosion protection. The items under test are placed in a room in which a 5% NaCl saline solution is emitted with a Ph from 6.5 and 7.2 and at a fixed temperature of 35°C for a duration of 120 hours.

CE MARKING & CERTIFICATIONS

EN 1090-1 - CE LABELLING FOR STEEL OR ALUMINIUM STRUCTURAL ELEMENTS

Our products are CE marked to the relevant requirements: EN 1090 – 1:2009/EC 1-2011, which has been in place since 1 July, 2014. This relates to the provision of CE marking on aluminium and steel structure elements in construction, from metal stairs to lofts, from roofing to entire buildings (or part thereof). This means that it can cover the requirements of a whole building, a single element or even just a simple detail. It therefore specifies an appropriate level of quality in terms of safety, whatever the metal product, providing the peace of mind that it complies with the requirements for its expected use.



ACTIVITIES	METHOD 1	METHOD 2	METHOD 3A	METHOD 3B
Calculations of the structural project for a single element	NONE (except for production, storage and loading phases)	YES Based on Eurocodes	NONE Calculation provided by customers [except for production, storage and loading phases]	YES Based on National Legislation [DM 14/01/08]
Basis of production	MPCS Specifications of the component provided by the manufacturer	MPCS Specifications of the component provided by the manufacturer	MPCS Specifications of the component provided by the manufacturer	MPCS Specifications of the component provided by the manufacturer
Statement on elements features	Information about structure and materials , useful for estimates and structural calculations	Delivered elements must be in agreement with EN1090-1 rule, with reference to Eurocodes and resistances given as distinctive value, or projects	Delivered elements must be in agreement with project's spec set by the customer	Delivered elements must be in agreement with project's spec set by the producer or so as to national legislation planning



ISO 14001



ISO 9001

Certification: we obtained the ISO 9001 Quality Certification about 15 years ago. Such certification enables us to monitor the company processes and to further increase the already high quality of our products and the services that we offer.

Environmentally friendly: since 2006 we are certified according to the ISO 14001 standards.

MATERIALS & FINISHES

AISI304


AISI 304 Stainless Steel

This is an alloy with a Cr content of 18%-20% and a Ni content of 8%-11%. It is the most widely utilised stainless steel in the world, representing more than half of the total, and is ideal for interior applications.

AISI316


AISI 316 Stainless Steel

This alloy has a Cr content of 16%-18%, a Ni content of 11%-14% and a Mo content of 2%-3%. The latter ensures a better corrosion resistance so makes it ideal for exterior use. In particularly challenging external environments, a mirror finish version of AISI 316 is recommended as this offers even greater resistance to the effects of atmospheric agents, pollutants and chlorides associated with seaside locations.

**AISI316
MIRROR**

IRON


Galvanised Iron

This Fe360B galvanised iron costs less than stainless steel but is more prone to corrosion. To help address this, it is hot dip galvanised and is a cost-effective option for external locations.

ALU


Aluminium

The aluminium we use in our systems is anodised and brushed. The anodising process chemically changes the material surface to make it longer lasting and more resistant to the effects of oxidation. The brushed finish provides a surface similar to that of glazed stainless steel, offering a more cost-effective solution for both interior and exterior applications.

The appearance of stainless steel can take many forms, depending on the type of finish that is applied to the metal. Those commonly used in architectural applications include:

Satin Finish

Satin finish is mechanically achieved thanks to 400 micron abrasive strips that give the steel a polished effect.

Mirror

This mechanical finish employs abrasive brushes to polish the surface and increase corrosion resistance.

Electropolishing

Using an electrochemical procedure, irregularities are removed from the item's surface, not only making it smoother but also increasing its reflective properties. Aesthetically, the reflection is equal to that achievable through mechanical polishing procedures. In terms of practicality, a smoother surface also enhances corrosion resistance as it reduces the possibility of the surface retaining contaminating particles. It also makes it easier to clean.

Colours

All Glass U profiles and Aalco stainless steel products can be powder coated. This a process through which metallic surfaces are covered with an organic film. This has benefits in terms of both aesthetics and protecting against strong agents. For exterior applications, galvanising is recommended prior to painting. In addition to all RAL colours, other finishes are available, including textured. Please contact us for further details.



MATERIALS & FINISHES

Powder Coating

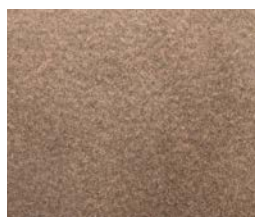
All Glass U profiles and Aalco's stainless steel products can be powder coated. Powder coating is a metallic surfaces covering procedure done with an organic film; that is created both for decorative purposes and corrosion and strong agents protection. If stainless steel items are placed outside, it is recommended to have them galvanised before painting. In addition to all RAL colours, several finishes are available on demand.



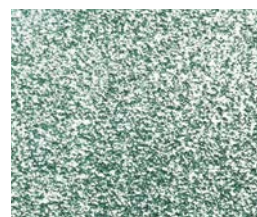
Textured finishings



Code: YAC 180 P



Code: R 283 SOP



Code: MCB 105 Z



Code: SA 161 P



Code: YAA 111 P



Code: YAB 062 P

Upon request, the profile can be supplied with a special primer, which can be coloured with any mural painting.

Handrails

Aalco offers a wide variety of stainless steel handrails, with mechanical hooks, finishing tops, pillars and angle brackets also coordinated with the special colour finishes of the profiles. Combination with wooden handrails, in different styles, is also available. The wood we employ comes from sustainably managed forests.



Ø 33.7mm
Ø 42.4mm
Ø 48.3mm



40 x 40mm



Ø 42mm



AISI316 SAT



AISI304 SAT



316 MIRROR



IRON



NATURAL



BEECH



WENGÈ



Ø 42.4mm
Ø 48.3mm



25 x 25mm



Ø 42.4mm



40 x 40mm



AISI316 SAT



AISI304 SAT



316 MIRROR



NATURAL



BEECH



WENGÈ

MAINTENANCE & CLEANING

To ensure the handrail systems are maintained in optimal condition, Aalco has developed a line of cleaning products specifically designed to remove polluting elements and recreate the original film protection on the metal's surface. A combination of the products can even help to restore a damaged surface.

For general cleaning, a damp soft rag should be used, with no

solvent or abrasive material, with the surface then dried to avoid limestone stains. Cleaning at least once a year with Aalco products is highly recommended. In locations subject to particularly high levels of pollution, such as inner cities or coastal locations, cleaning intervals of 1 to 2 months are recommended (or as soon as stains appear).



RESEARCH & DEVELOPMENT

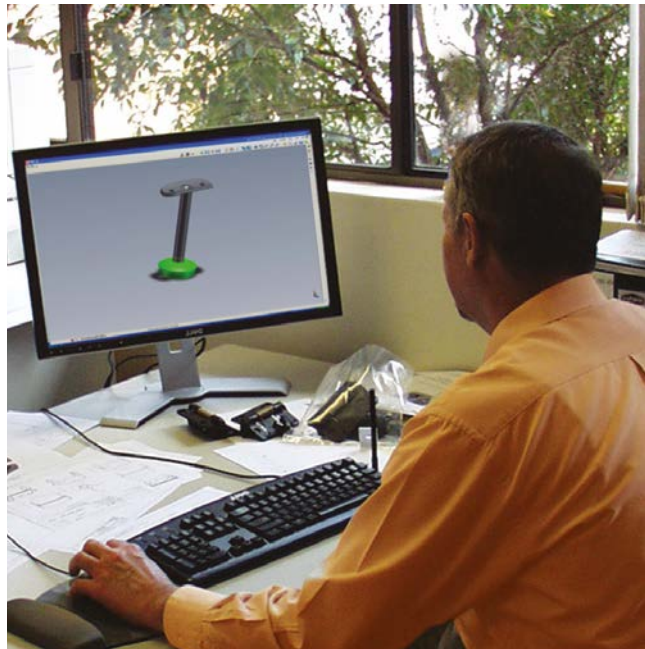


The needs of our customers are always foremost in what we do as a business. We listen to their requirements and feed back to a team of designers and engineers who are constantly working to develop new products and to further improve our existing range.

As customers discover new and innovative ways in which handrail systems can be employed in increasingly diverse applications, so we look at how our products can work with different materials to perform both aesthetically and structurally. Ease of installation is also a constant focus in the R&D that we undertake. That applies not only to how our own handrail systems are installed but also to how they can integrate with and enhance other architectural features.

Flexibility to accommodate a wide range of different scenarios is a fundamental consideration in developing new additions to the range.

Alongside our extensive range of off-the-shelf products, we can also work with architects and designers to develop bespoke items to meet specific needs. Further information is available from our Bespoke Fabrication Service section of the website.



BENDING SERVICE

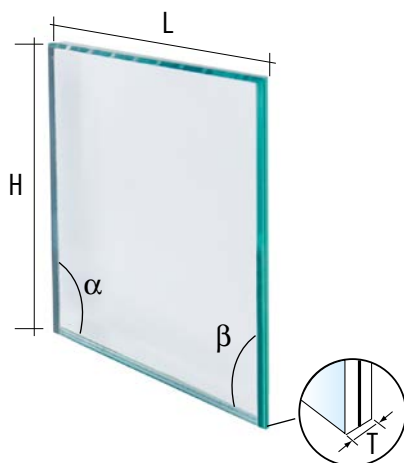


BENDING SERVICE

**WE OFFER A BENDING
SERVICE ON REQUEST.
CONTACT US AT YOUR
LOCAL SERVICE CENTRE**

QUOTE OR ORDER FORM - GLASS

ASK FOR YOUR SPECIFIC GLASS



Quantity _____ mm

Height H _____ mm

Width L _____ mm

α _____

β _____

Thickness T



Monolithic glass

☐ 6mm

☐ 8mm

☐ 10mm

☐ 12mm

☐ 15mm

☐ Other _____



Laminated glass

☐ 6.76mm

☐ 8.76mm

☐ 9.52mm

☐ 12.76mm

☐ 16.76mm

☐ 17.52mm

☐ 21.52mm

☐ Other _____

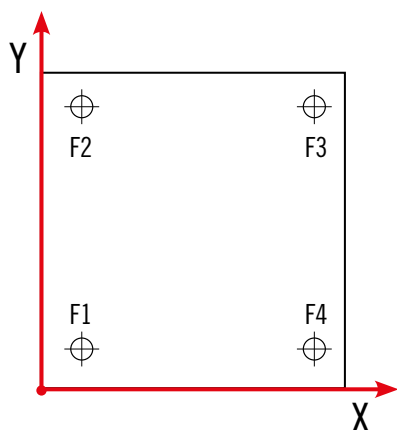
☐ Without holes

☐ With holes

Holes: _____

Ø/dia Holes: _____ mm

Holes position (x-y): _____ mm



Centre of the hole

X

Y

F1 _____ mm _____ mm

F2 _____ mm _____ mm

F3 _____ mm _____ mm

F4 _____ mm _____ mm

Name _____

Post Code _____

Company _____

Tel _____

Address _____

E-mail _____

FOR A QUOTE OR TO PLACE AN ORDER, COMPLETE FORM AND FAX OR E-MAIL TO YOUR LOCAL SERVICE CENTRE

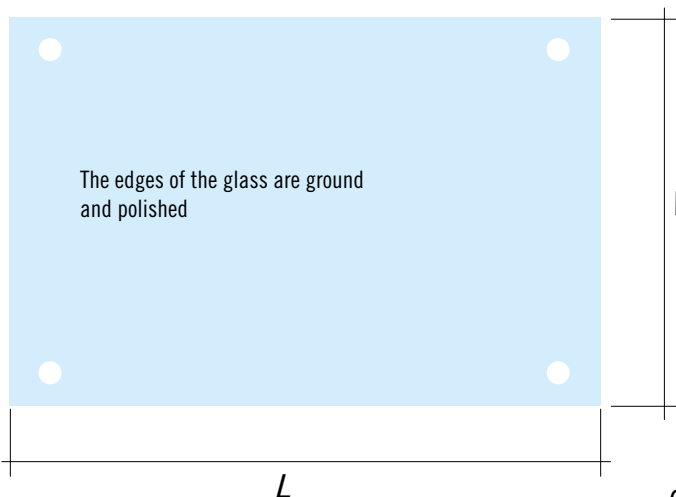
www.aalco-handrail.com

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22 QUOTE OR ORDER FORM - GLASS

QUOTE OR ORDER FORM - CANOPY GLASS

GLASS FOR CANOPIES



Model: _____

Quantity: _____

L: _____

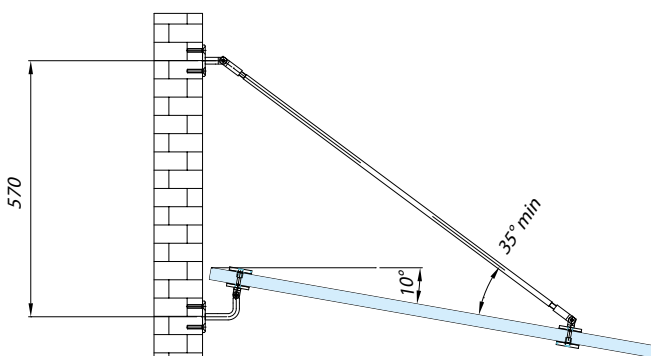
W: _____

Glass Thickness

8+8

10+10

12+12

☐
☐
☐


Tempered Glass

YES

NO

☐
☐

Glass Inclination _____

NOTES:

Name

Post Code

Company

Tel

Address

E-mail

FOR A QUOTE OR TO PLACE AN ORDER, COMPLETE FORM AND FAX OR E-MAIL TO YOUR LOCAL SERVICE CENTRE

www.aalco-handrail.com

QUOTE OR ORDER FORM - CUSTOM NEWEL POSTS

CUSTOM NEWEL POSTS WITH OR WITHOUT ROUND BAR HOLDERS

☐ QUOTE ☐ ORDER


Name _____


Company _____ Post Code _____



Address _____ Tel _____





E-mail _____


DELIVERY	
STANDARD Estimated 10 workings days	<input type="checkbox"/>
EXPRESS Estimated 3 workings days	<input type="checkbox"/>
QUANTITY	
NO. _____	


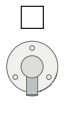
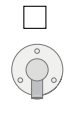
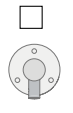
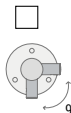
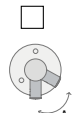

Notes  Optional





1 MATERIAL AND FINISHING  SELECT ONE SQUARE		
AISI304	AISI316	IRON
<input type="checkbox"/> SATIN FINISH <input type="checkbox"/> MIRROR POLISHED	<input type="checkbox"/> SATIN FINISH <input type="checkbox"/> MIRROR POLISHED	<input type="checkbox"/> RAW, UNFINISHED <input type="checkbox"/> GALVANISED <input type="checkbox"/> GALVANISED AND PAINTED RAL _____


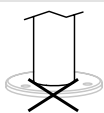
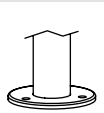
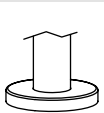
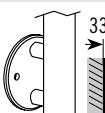
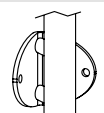
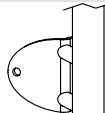
2 HEIGHTS  COMPLETE ALL THE FIELDS	3 NEWEL POST DIMENSIONS  SELECT ONE SQUARE
H1 _____ H3 _____	<input type="checkbox"/> Ø 33.7 x 2.0mm <input type="checkbox"/> Ø 48.3 x 2.0mm <input type="checkbox"/> OTHER
H2 _____ Htot _____	<input type="checkbox"/> Ø 42.4 x 2.0mm <input type="checkbox"/> 40 x 40 x 2.0mm _____

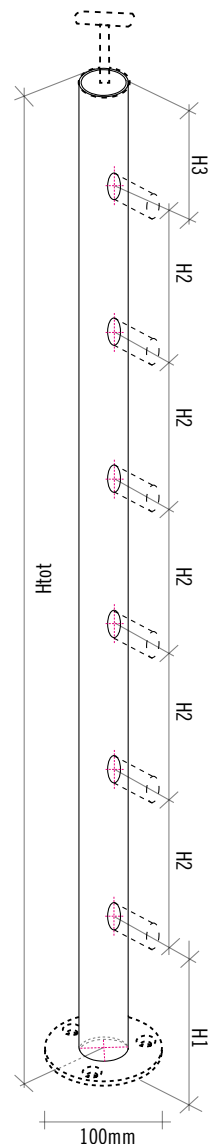
4 HANDRAIL SUPPORT  SELECT ONE SQUARE
 <input type="checkbox"/> Fixed  <input type="checkbox"/> Pivotable  <input type="checkbox"/> Nothing <input type="checkbox"/> OTHER CODE _____

 THE CORNER POSTS HOLD A MOUNTING PLATE AT 90°

5A ROUND BAR HOLDERS  SELECT ONE SQUARE FOR EACH OF THE 3 FIELDS		
1 FOR ROUND BAR <input type="checkbox"/> Ø 10MM <input type="checkbox"/> Ø 12MM <input type="checkbox"/> Ø 14MM <input type="checkbox"/> OTHER CODE _____	2 NO. RANGE ROUND BAR <input type="checkbox"/> 5 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> OTHER OTHER _____	3 POSITIONING  <input type="checkbox"/> LEFT BLIND END  <input type="checkbox"/> THROUGH  <input type="checkbox"/> RIGHT BLIND END  <input type="checkbox"/> 90°  <input type="checkbox"/> A A = _____  MINIMAL ANGLE: A ≥ 65°

5B HOLE  SELECT ONE SQUARE FOR EACH OF THE 3 FIELDS		
1 PLAIN <input type="checkbox"/> Ø 4.2mm <input type="checkbox"/> Ø 10.2mm <input type="checkbox"/> Ø 5.2mm <input type="checkbox"/> Ø 12.2mm <input type="checkbox"/> Ø 6.2mm <input type="checkbox"/> Ø 8.2mm <input type="checkbox"/> Ø 14.2mm	THREADED <input type="checkbox"/> M6 <input type="checkbox"/> M8 <input type="checkbox"/> M10	2 NO. HOLES FOR NEWEL POST TOTAL _____
3 POSITIONING HOLES  <input type="checkbox"/> BLIND HOLE  <input type="checkbox"/> HOLE 90°  <input type="checkbox"/> HOLE 180°		

6 ANCHORAGES  SELECT ONE SQUARE					
WITHOUT ANCHORAGE	FLOOR ANCHORAGE		LATERAL ANCHORAGE		
	Without Cover	With Cover	Flat	Ext. angle	Int. angle
 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>	 <input type="checkbox"/>



Fields - 5A and 5B are alternative options (choose accordingly)



22 QUOTE OR ORDER FORM - CUSTOM NEWEL POSTS

QUOTE OR ORDER FORM - CUSTOM NEWEL POSTS

CUSTOM NEWEL POSTS WITH GLASS HOLDERS

☐ QUOTE ☐ ORDER

Name _____

Company _____ Post Code _____

Address _____ Tel _____

E-mail _____

DELIVERY


STANDARD ☐
Estimated 10 working days



EXPRESS ☐
Estimated 3 working days






QUANTITY





NO. _____




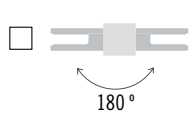
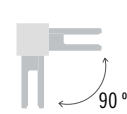
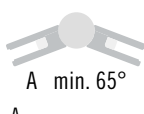
Notes  Optional


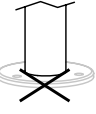
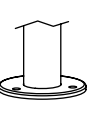
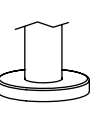
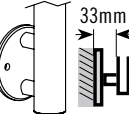
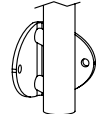
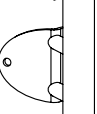
1 MATERIAL AND FINISHING 		
AISI304	AISI316	IRON
<input type="checkbox"/> SATIN FINISH <input type="checkbox"/> MIRROR POLISHED	<input type="checkbox"/> SATIN FINISH <input type="checkbox"/> MIRROR POLISHED	<input type="checkbox"/> RAW, UNFINISHED <input type="checkbox"/> GALVANISED <input type="checkbox"/> GALVANISED AND PAINTED RAL _____

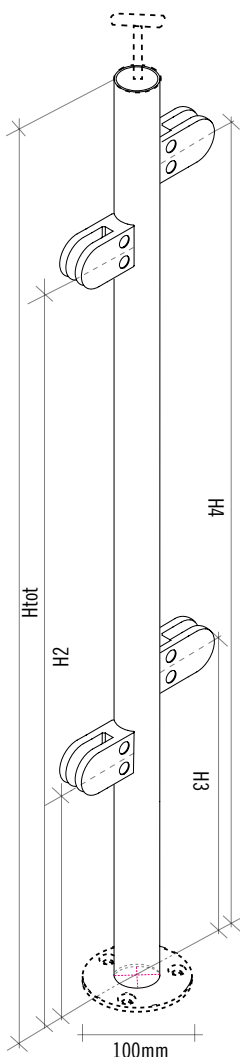
2 HEIGHTS 	3 NEWEL POST DIMENSIONS 
H1 _____ H3 _____ H2 _____ Htot _____	<input type="checkbox"/> \varnothing 33.7 x 2.0mm <input type="checkbox"/> \varnothing 48.3 x 2.0mm <input type="checkbox"/> OTHER _____ <input type="checkbox"/> \varnothing 42.4 x 2.0mm <input type="checkbox"/> 40 x 40 x 2.0mm

4 HANDRAIL SUPPORT 
<div>  <input type="checkbox"/> Fixed  <input type="checkbox"/> Pivotable  <input type="checkbox"/> Nothing <input type="checkbox"/> OTHER CODE _____ </div> <div>  THE CORNER POSTS HOLD A MOUNTING PLATE AT 90° </div>

5 GLASS CLAMPS 
<div> <input type="checkbox"/>  Round <input type="checkbox"/>  Square <input type="checkbox"/>  Da Vinci <input type="checkbox"/> OTHER CODE _____ </div> <div> 2 GLASS THICKNESS <input type="checkbox"/> 6mm <input type="checkbox"/> 9.52mm <input type="checkbox"/> 12mm <input type="checkbox"/> 16.76mm <input type="checkbox"/> 8mm <input type="checkbox"/> 10mm <input type="checkbox"/> 12.76mm <input type="checkbox"/> 17.52mm <input type="checkbox"/> 8.76mm <input type="checkbox"/> 10.76mm <input type="checkbox"/> 13.52mm <input type="checkbox"/> 21.52mm <input type="checkbox"/> OTHER _____ </div>

6 POSITIONING GLASS CLAMPS 
<input type="checkbox"/> Dx  <input type="checkbox"/> Sx  <input type="checkbox"/>  180° <input type="checkbox"/>  90° <input type="checkbox"/>  A min. 65° A = _____

6 ANCHORAGES 					
WITHOUT ANCHORAGE	FLOOR ANCHORAGE		LATERAL ANCHORAGE		
	Without Cover	With Cover	Flat	Ext. angle	Int. angle
					
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



FOR A QUOTE OR PLACE AN ORDER, COMPLETE FORM AND FAX OR E-MAIL TO YOUR LOCAL SERVICE CENTRE



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E1999500	176	E2070	147	E2500110	75	E40580	204	E40940	96
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STANDARD TUBE

AISI304 & AISI316

Ø 42.4 X 2.0mm	136
Ø 42.4 X 2.6mm	136
Ø 48.3 X 2.0mm	136
Ø 48.3 X 2.6mm	136



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