# 01 GLASS U PRODUCTS

# GLASS U

### QUICK VIEW OF GLASS U PRODUCTS APPLICATIONS

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GLASS U A (AVANT-GARDE)	
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RUBBER MALLET TO BE USED

PRODUCT TO BE GLUED WITH E4054



ASSEMBLY WITH ALLEN KEY



PRODUCT TO BE WELDED



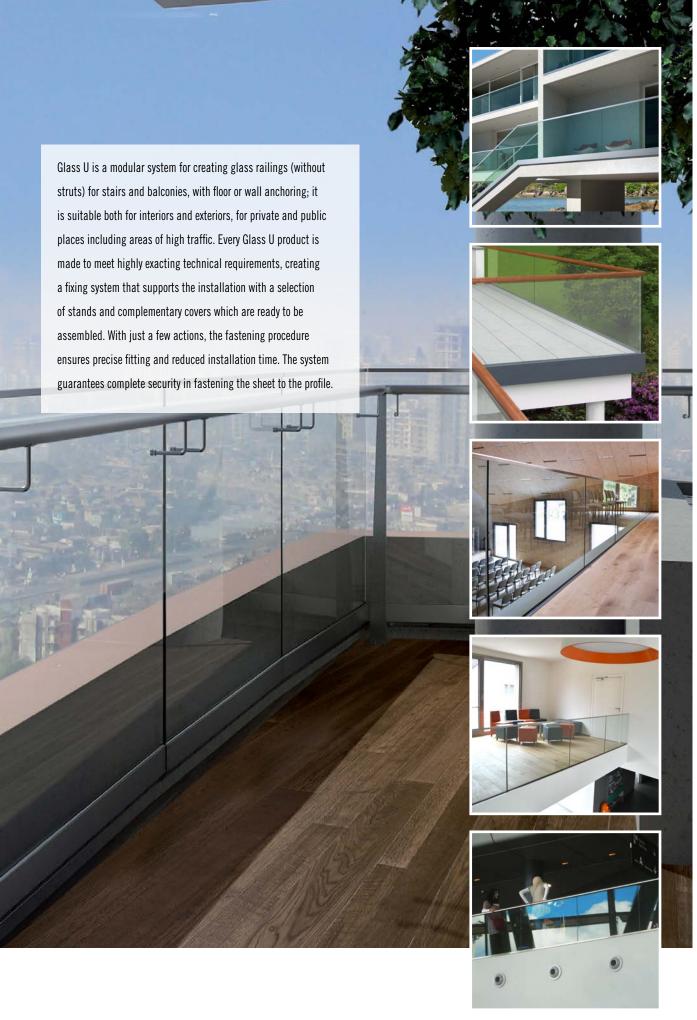
ANTI-CLIMB PRODUCT



SUPER STRONG, HIGH RESISTANT PRODUCT









### Glass U A (AVANT-GARDE) TOP 1

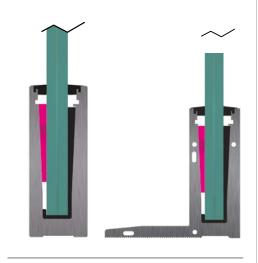
### Glass U A (AVANT-GARDE) TOP 2

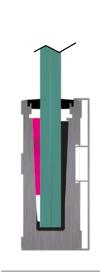
### Glass U A (AVANT-GARDE) SIDE 1

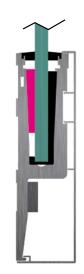
### Glass U A (AVANT-GARDE) SIDE 2

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.

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.







**USE** 

**GLASS THICKNESS** 

PROFILE WEIGHT

**ANCHORAGE POSSIBILITY** 

POSSIBLE USES

design load **TESTED** ultimate strength

**CERTIFICATION** 

PAGE NUMBER

Public area

15, 16.76, 17.52, 19, 20.76, 21.52

7.95kg/ml

Floor Anchoring

Linear

15, 16.76, 17.52, 19, 20.76, 21.52

10.10kg/ml

Floor Anchoring

Linear

15, 16.76, 17.52, 19,

20.76, 21.52

8.02kg/ml

Lateral Anchoring

Stairways Linear

Public area

15, 16.76, 17.52, 19, 20.76, 21.52

10.10kg/ml

Lateral Anchoring

Stairways

Linear

Contact your local Service Centre for loadings

10 - 11

12 - 13



14 - 15

16 - 17

### Glass U S (STRONG) TOP

### Glass U S (STRONG) SIDE

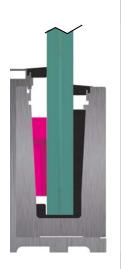
### Glass U P2 (PRECISION 2) TOP

### Glass U P2 (PRECISION 2) SIDE

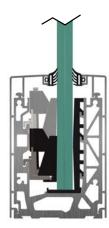
This system is designed for public spaces subject to high traffic, such as museums, shopping centres, theatres and auditoriums. It can withstand a 300kg/ml side-wind and meets most security regulations. Not only does it have the usual fastening system, but it is also characterised by a patented distancing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

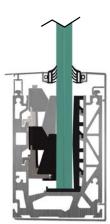
This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system. The Glass U P2 system has successfully passed the most stringent tests and offers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





20 - 21

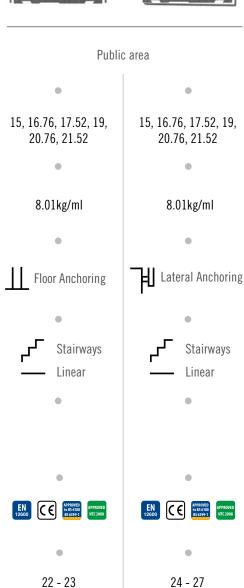




USE	Well frequent	ed public places	I
	•	•	•
GLASS THICKNE	20.76, 21.52, 31.52	20.76, 21.52, 31.52	15, 16.76, 17.52 20.76, 21.5
	•	•	•
PROFILE WEIGH	12.90kg/ml	12.90kg/ml	8.01kg/ml
	•	•	•
ANCHORAGE POSSIBILITY	FIGURALICATION	Lateral Anchoring	Floor Ancho
	•	•	•
POSSIBLE USE	Linear	Stairways Linear	Stairv — Linear
	•	•	•
TESTED design load ultimate stre	ength		
	•	•	•
CERTIFICATION	EN (2600) (C €) (37780/UE) (17780/UE) (17780	EN 12600 CE APPROVED to 55 6150 APPROVED WTC 2008	EN (2600 C € APPROVED to 85 6180 (55 6399-1

18 - 19

PAGE NUMBER





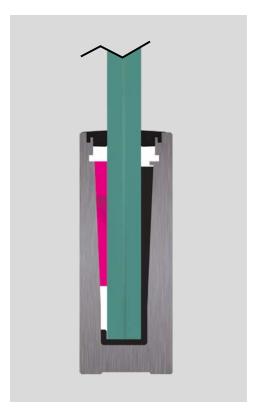






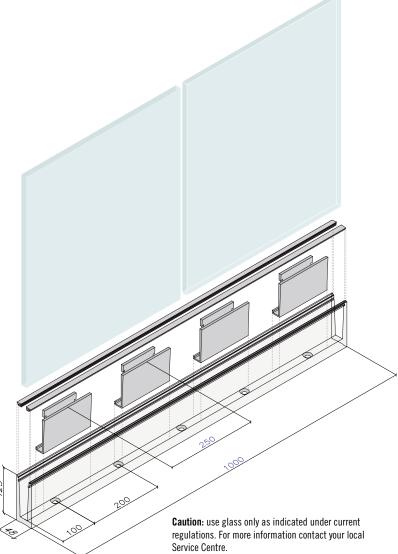


# **GLASS U A (AVANT-GARDE) TOP 1**



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.

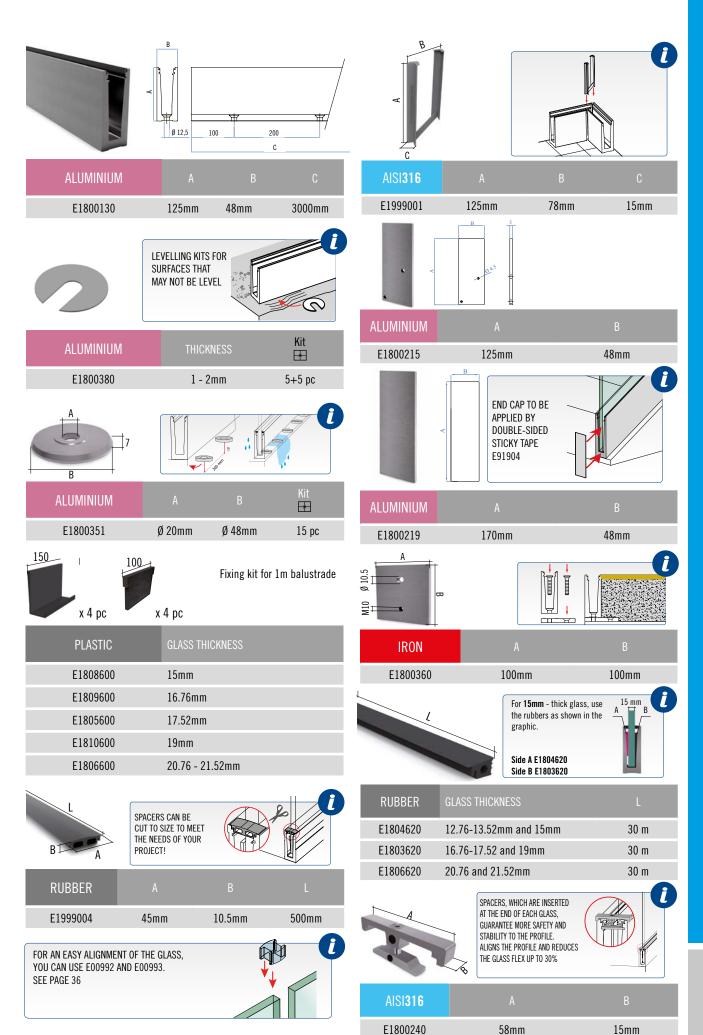
Glass U A is ideal for private homes, bars, restaurants and most public places,



### **Profiles are provided with:**

- closure tops
- spacers to insert at the end of each glass nanel
- 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

# PROFILE WEDGE SET GASKET





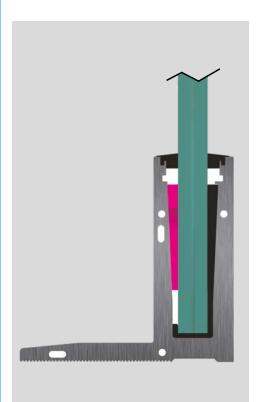








# **GLASS U A (AVANT-GARDE) TOP 2**



The natural evolution of 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 nanel
- 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





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

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



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



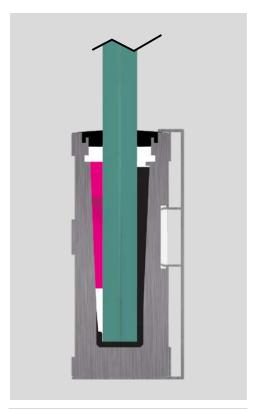








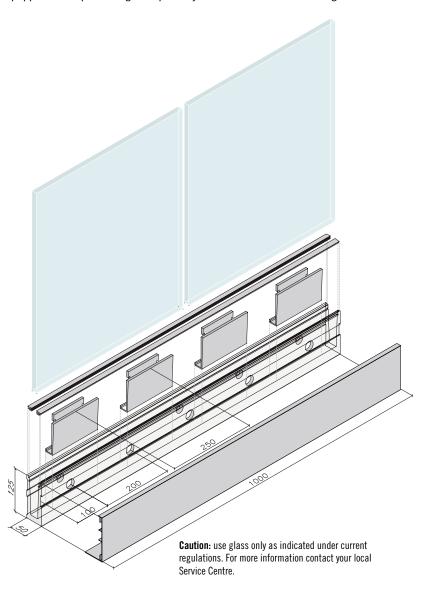
# **GLASS U A (AVANT-GARDE) SIDE 1**



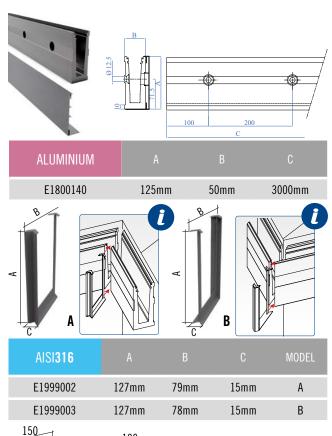
Profiles are provided with:

- closure tops
- spacers to insert at the end of each glass nanel
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- fastening wedges in synthetic material
- rubber closure seals for various glass thicknesses, see table

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.



# PROFILE WEDGE SET GASKET Output Outp



1.10.20.000	
PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm

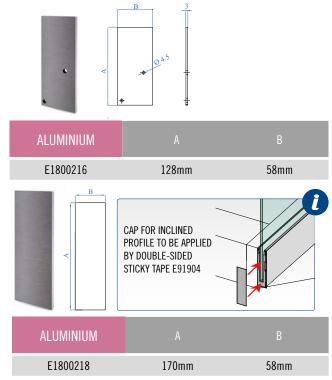
x 4 pc.

Fixing kit for 1 metre balustrade

100\_

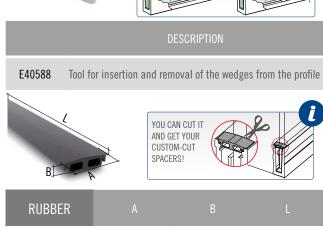


RUBBER	GLASS THICKNESS	L
E1804620	12.76-13.52mm and 15mm	30m
E1803620	16.76-17.52 and 19mm	30m
E1806620	20.76 and 21.52mm	30m











10.5mm

45mm

E1999004

500mm



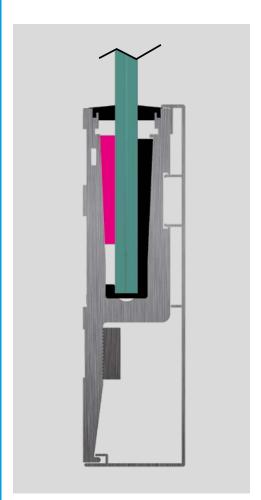








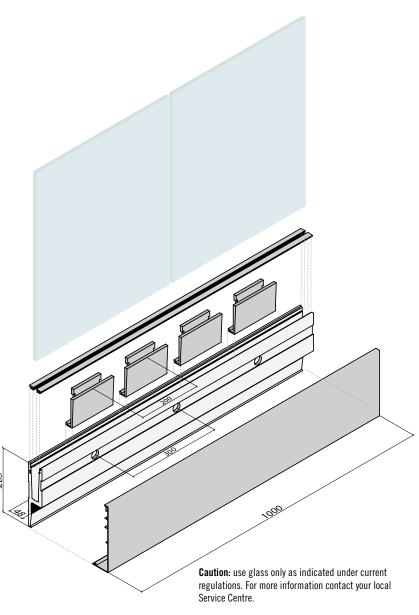
# GLASS U A (AVANT-GARDE) SIDE 2



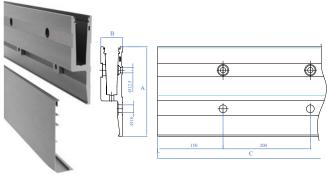
**Profiles are provided with:** 

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

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.



# PROFILE WEDGE SET GASKET







ALUMINIUM		
E1800290	210mm	59mm

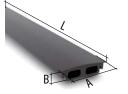




Fixing kit for  $1\ \mathrm{metre}\ \mathrm{balustrade}$ 

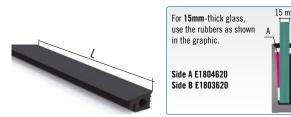
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PLASTIC	GLASS THICKNESS
E1808600	15mm
E1809600	16.76mm
E1805600	17.52mm
E1810600	19mm
E1806600	20.76 - 21.52mm

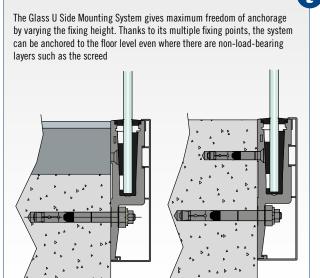


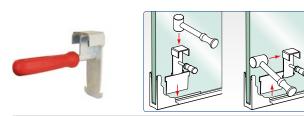


RUBBER	А	В	L
F1999004	45mm	10.5mm	500mm



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





### DESCRIPTION

 ${\tt E40588} \qquad {\tt Tool \ for \ insertion \ and \ removal \ of \ the \ wedges \ from \ the \ profile}$ 





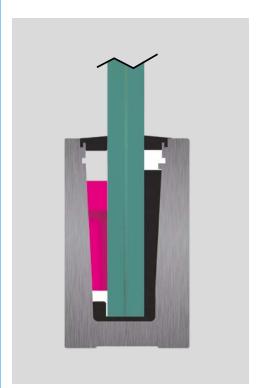








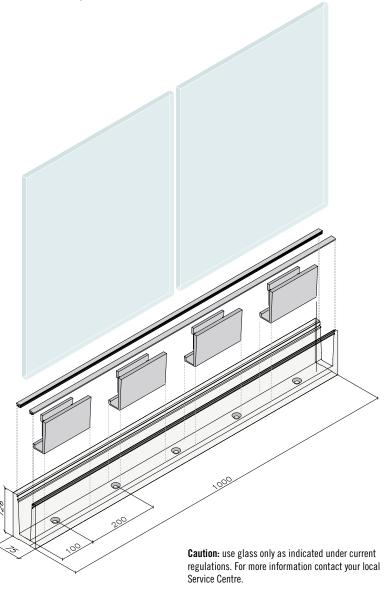
# **GLASS U S (STRONG) TOP**



### **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

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.



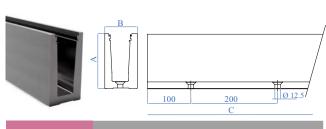
### DESCRIPTION OF KIT ELEMENTS





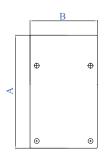






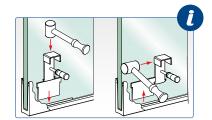






ALUMINIUM		В
E1800210	126mm	75mm





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

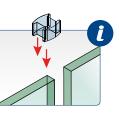




Fixing kit for  $1\ \mathrm{metre}\ \mathrm{balustrade}$ 

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	
E1801620	20.76 and 21.52mm	30m
E1802620	24.76 and 25.52mm	30m
E1803620	31.52mm	30m



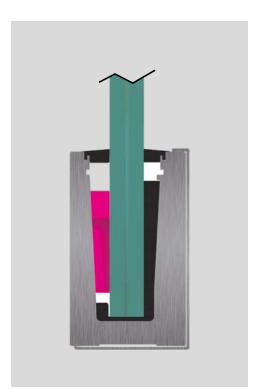








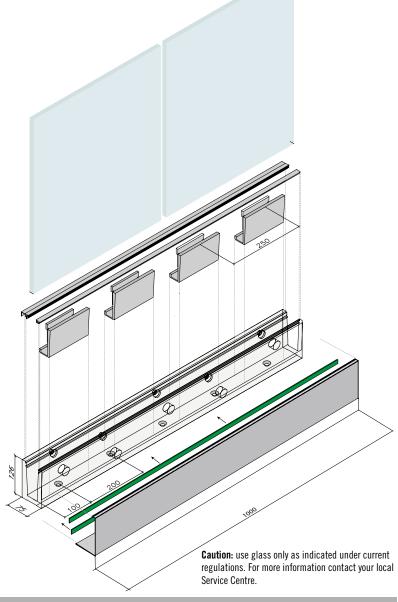
# **GLASS U S (STRONG) SIDE**



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



### DESCRIPTION OF KIT ELEMENTS









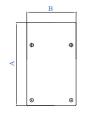




Fixing kit for 1 metre balustrade  $\,$ 

PLASTIC	GLASS THICKNESS
E1801600	20.76 and 21.52mm
E1803600	31.52mm

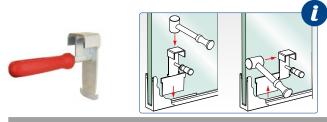




ALUMINIUM		
E1800210	126mm	75mm

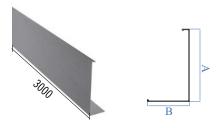


RUBBER	GLASS THICKNESS	L
E1801620	20.76 and 21.52mm	30m
E1802620	24.76 and 25.52mm	30m
E1803620	31.52mm	30m

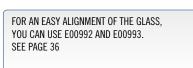


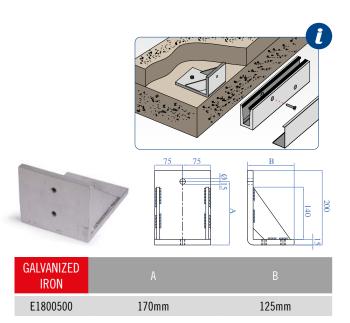
DESCRIPTION

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











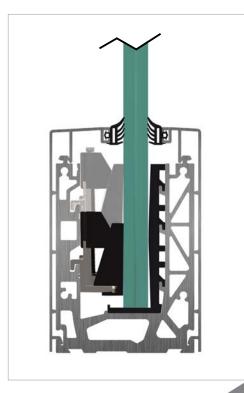






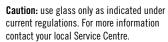


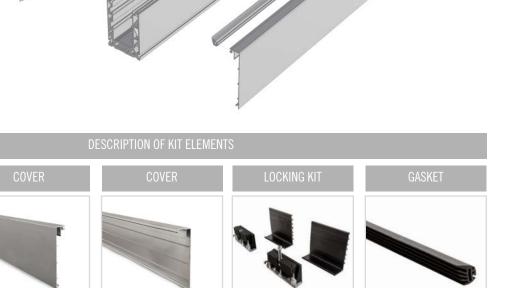
# **GLASS U P2 (PRECISION 2) TOP**



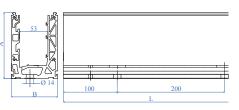
This new generation of profiles has been designed to enable easier alignment of glass in balustrades. It allows adjustment of the glass from just the internal side of the balustrade through the patented ACE-BLOCK system. The Glass U P2 system has successfully passed the most stringent tests and offers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









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

ALUMINIUM	А	В	L
E1700803	123mm	86mm	3000mm
E1700800	123mm	86mm	6000mm



ALUMINIUM			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

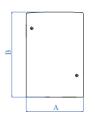


		_5
m m		
	17.5	17.5
on plug for profiles		

Connection plug for profiles

ALUMINIUM	А	В	Kit ★
E1700840	35mm	Ø 5mm	10 pc.
E1700840/KT100	35mm	Ø 5mm	100 pc.





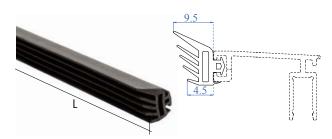
End cap for floor anchorage - 2 pieces

ALUMINIUM	А	В
E1700805	94mm	140mm



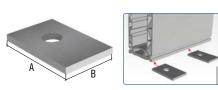
Internal side cover plate for floor anchorage

ALUMINIUM	А	В	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			Kit ⊞
E1700845	50mm	80mm	for 3m
E1700845/KT30	50mm	80mm	for 30m



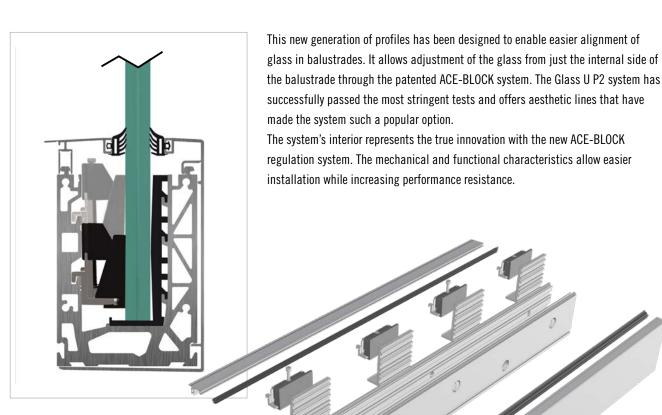






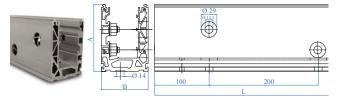


# **GLASS U P2 (PRECISION 2) SIDE**



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

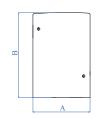
# PROFILE COVER COVER LOCKING KIT GASKET OF A STATE OF A



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

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

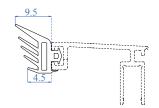




End cap for wall anchorage - 2 pieces

ALUMINIUM	А	В
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

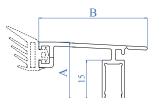




External side cover plate for wall anchorage

ALUMINIUM	А	В	L
E1700863	89mm	144mm	3000mm
E1700860	89mm	144mm	6000mm

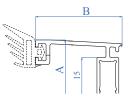




Internal side cover plate for wall anchorage

ALUMINIUM	А	В	L
E1700873	22mm	41.4mm	3000mm
E1700870	22mm	41.4mm	6000mm





External superior side cover plate for wall anchorage

ALUMINIUM	А	В	L
E1700874	22mm	29.6mm	3000mm
E1700871	22mm	29.6mm	6000mm



External superior side cover plate for wall anchorage

ALUMINIUM	А	В	L
E1700893	9.7mm	37.80mm	3000mm
E1700890	9.7mm	37.80mm	6000mm

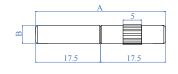


Glass fixing kit - use 1 kit (4 blocks) for each metre of profile. For higher loadings (1.5kN) - use kit containing 6 blocks per metre.

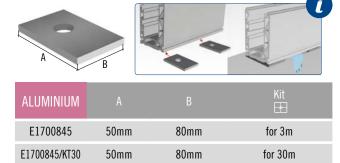
IRON-ZINC PLASTIC	GLASS THICKNESS	Kit ⊞
E1700810/15	15-16.76-17.52mm (0.74kN loading)	for 1m
E1700810/19	19-20.76-21.52mm (0.74kN loading)	for 1m
E1700810/19/6	19-20.76-21.52mm (1.5kN loading)	for 1m
E1700810/15/KT30	15-16.76-17.52mm	for 30m
E1700810/19/KT30	19-20.76-21.52mm	for 30m

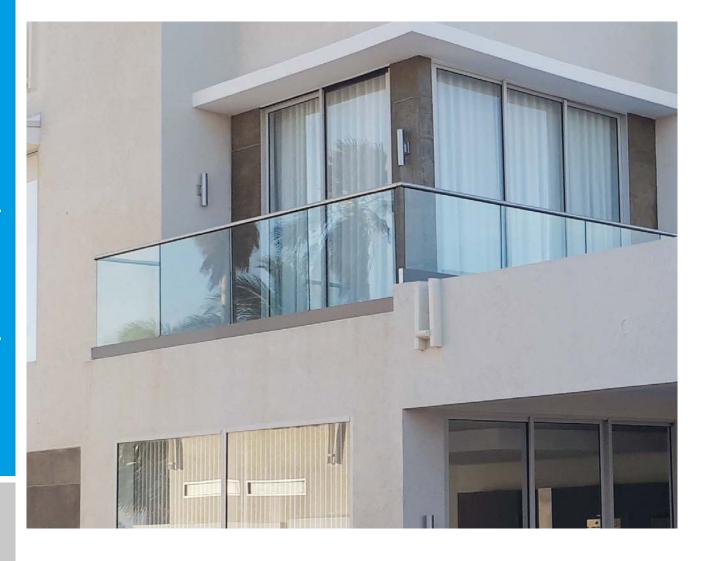


Connection plug for profiles



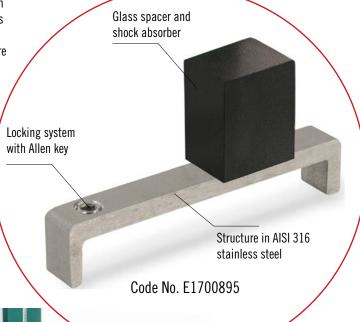
ALUMINIUM	A	В	Kit ⊞
E1700840	35mm	Ø 5mm	10 pc.
E1700840/KT100	35mm	Ø 5mm	100 pc.

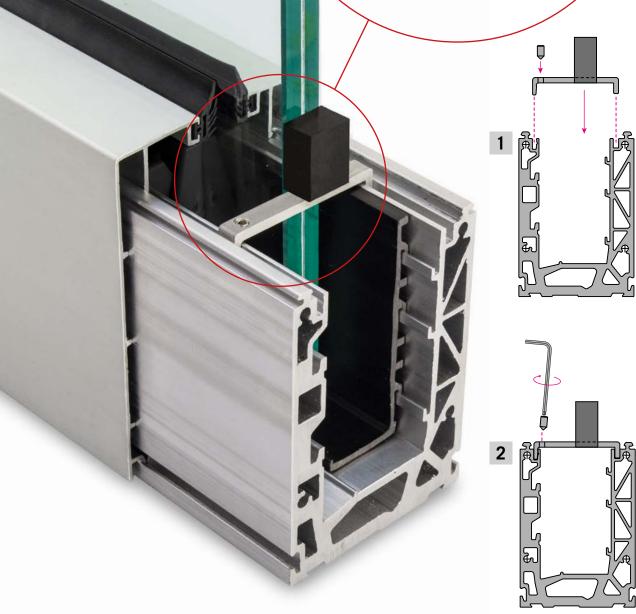




# **NEW STRONGER TIE ROD**

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.

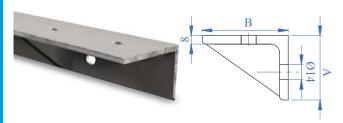




## **GLASS U P2 - ACCESSORIES FOR LATERAL ANCHORAGE**

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.

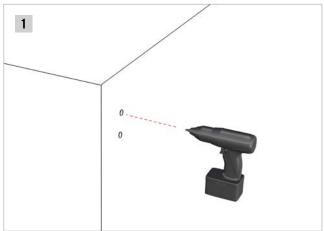


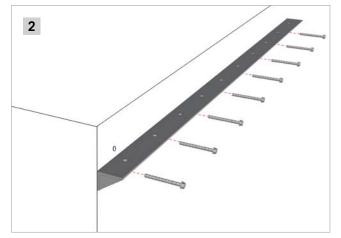
Bracket for wall profile support

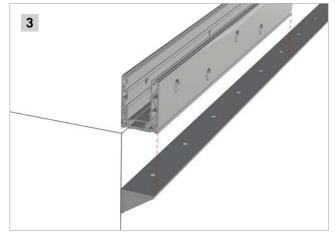


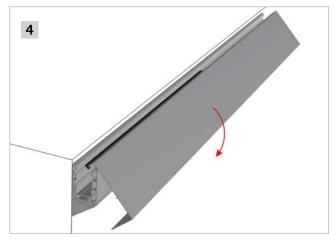
External side cover plate for wall profile with bracket

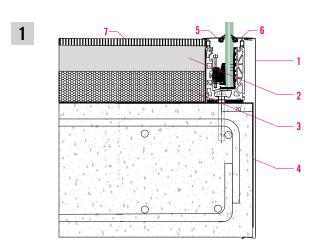
External side cover plate for wall profile with bracket			
ALUMINIUM	А	В	L
E1700883	87mm	205mm	3000mm
E1700880	87mm"	205mm	6000mm
Closing cap for wa	II profile with bracket	•	• B
ALUMINIUM			L
E1700885	90.4mm	205mm	3000mm



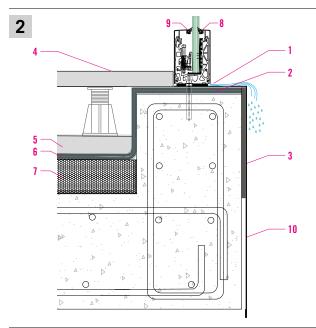




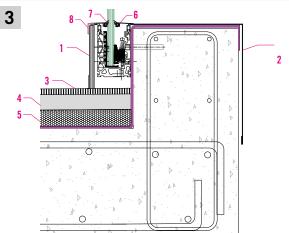




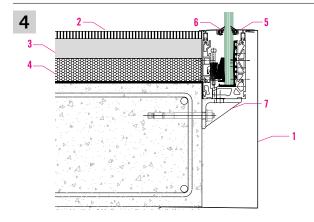
- 1 Cover plate in metal press-bended thickness 0.5mm
- 2 Slope screed
- 3 Isolation layer
- 4 Isolation layer
- 5 Internal plate E1700874
- 6 External plate E1700893
- 7 Floor



- 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



- 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



- 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**

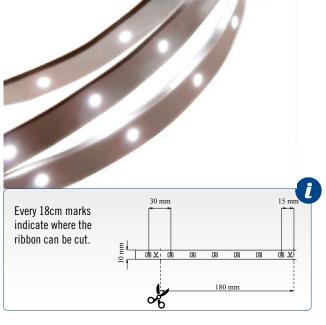


	DESCRIPTION
ELED0002	To connect the LED strip to the feeder
	DESCRIPTION
ELED0003	To join two LED strips in a line
	DESCRIPTION
ELED0004	To join two LED strips by a 15mm flexible cable
	DESCRIPTION
ELED0009	To join two LED strips with a 90° elbow
	DESCRIPTION
ELED0005	To be used on every installation.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



LED	MEIRE		
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 Temp	erature	-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	А		Kit <del>≭</del>
E1999027	29mm	13mm	for 1m
E1999027/KT30	29mm	13mm	for 30m



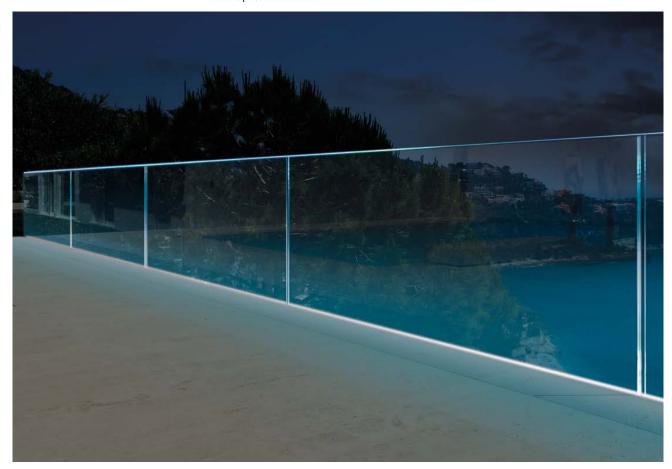
Detail of housing of LED strip.



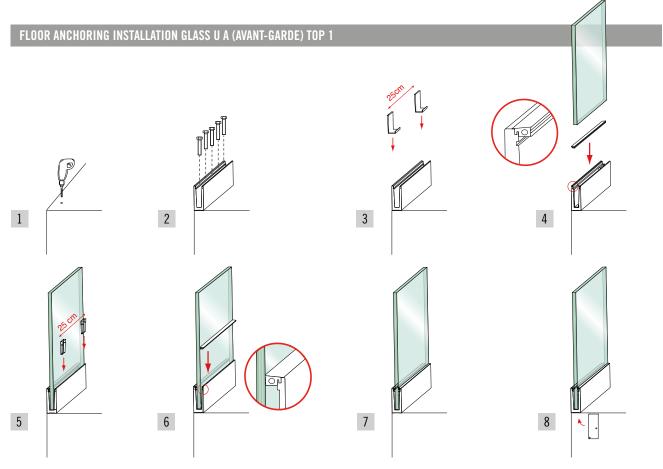
Insert housing for LED strip inside the channel located on the component with 'L' shape, on which the glass, is placed.



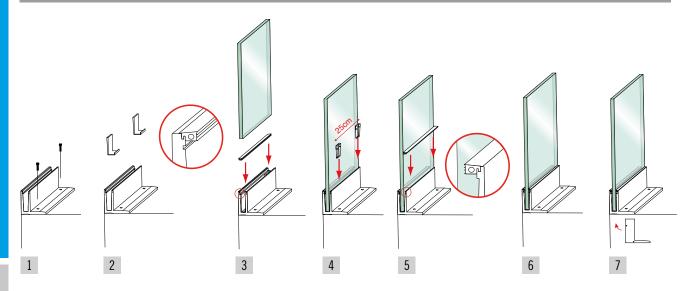
Insert the strip into the appropriate created space and place the glass directly on it.

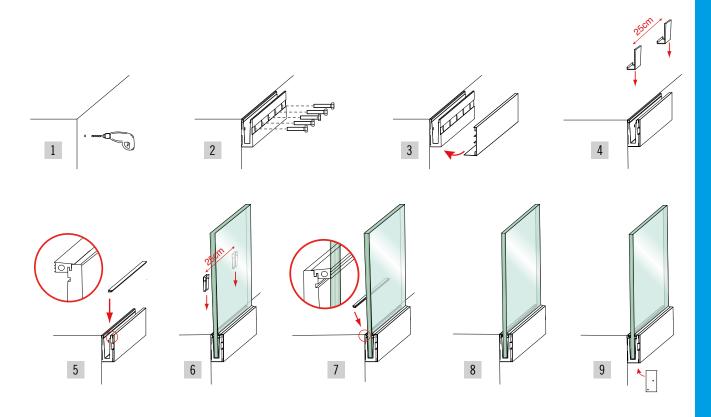




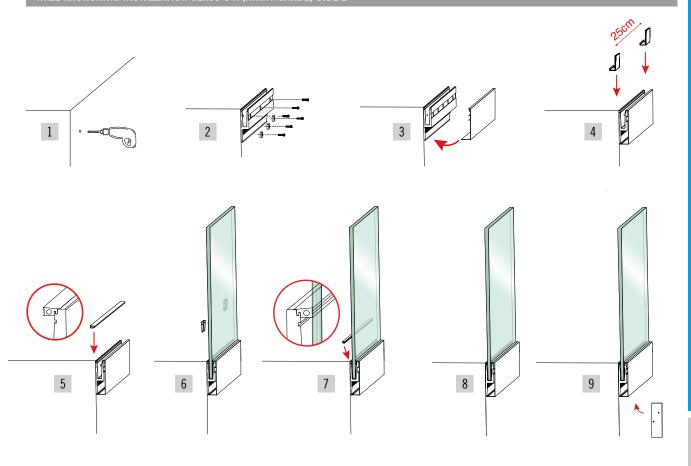


### FLOOR ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) TOP 2



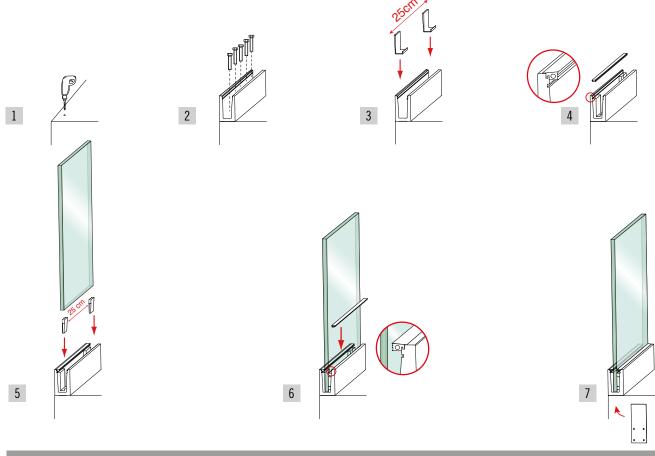


### WALL ANCHORING INSTALLATION GLASS U A (AVANT-GARDE) SIDE 2

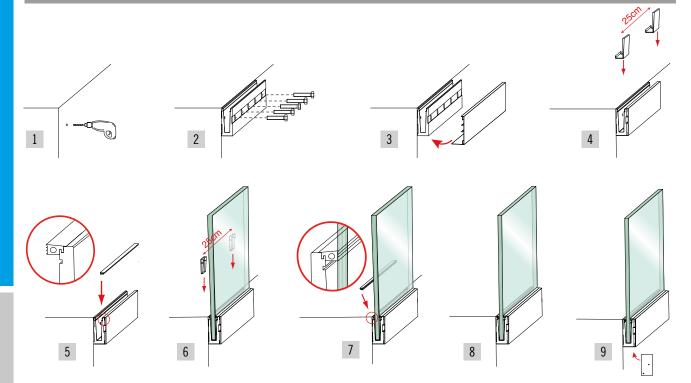




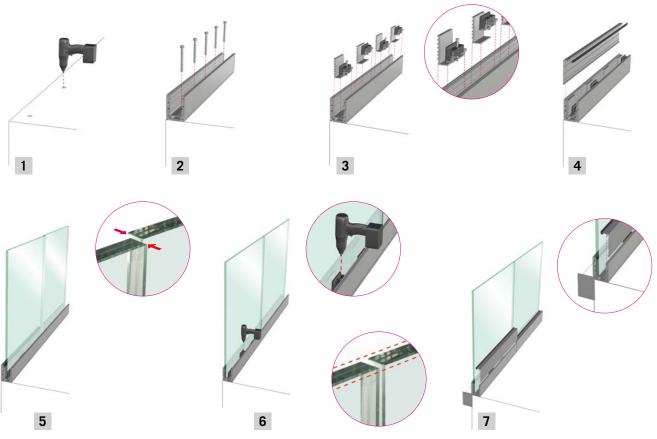
FLOOR ANCHORING INSTALLATION GLASS U S (STRONG) TOP



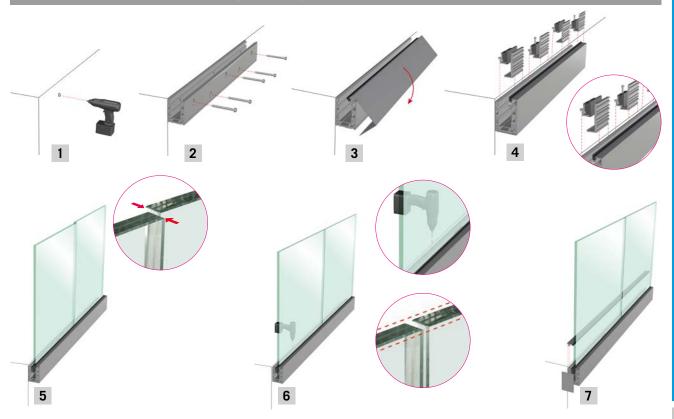
### WALL ANCHORING INSTALLATION GLASS U S (STRONG) SIDE



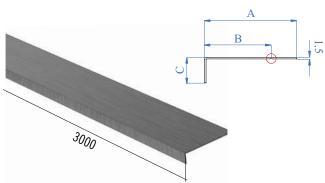




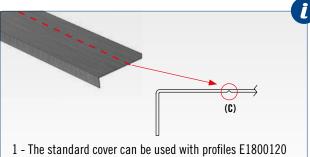
### WALL ANCHORING INSTALLATION GLASS U P2 (PRECISION 2) SIDE



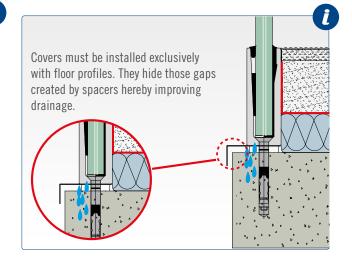




ALUMINIUM			С
E1800355	91mm	66mm	25mm



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





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

