



#### Installation

Overview

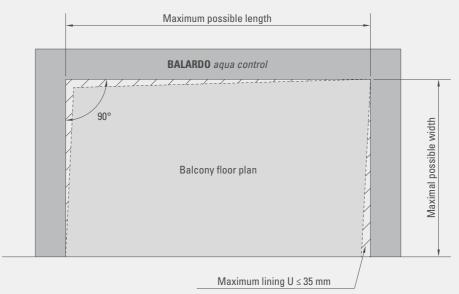
#### **Contents**

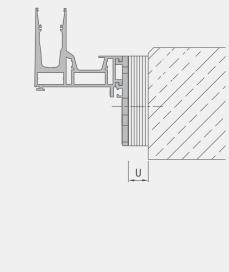
#### **Recommended mounting sequence**

1. Fixing to the substructure Page 144 3. Install drain connection / drainage through end cover Page 152 4. Mounts Page 154 5. Basic profile assembly I/L/U balcony Page 156 6. Tighten locking screws Page 160 (for systems 4 and 5) 7. Sealing Page 162 8. Set fixed bearing points Page 164 9. Facing Page 166 10. Pane mounting with CLEVERFIX mounting set Page 168

#### Installation

Substructure





Rail load 0.5 kN/m, concrete quality C25/30	Lining U
Fischer Ultracut FBS II 10 x 120 65/55/35/US A4	≤ 20 mm
Fischer FAZ II 10/70 A4	≤ 35 mm
Hilti HST 3 M10 x 130 70/50	≤ 35 mm

Rail load 1.0 kN/m, concrete quality C25/30	Lining U
Fischer Ultracut FBS II 10 x 120 65/55/35/US A4	≤ 20 mm
Fischer FAZ II 10/70 A4	≤ 35 mm
Hilti HST-R 3 M10 x 130	≤ 20 mm

All screw connections are to be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or an equivalent.

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<sup>\*</sup> Minimum relining width of  $\geq$  60 mm mm per dowel connection.

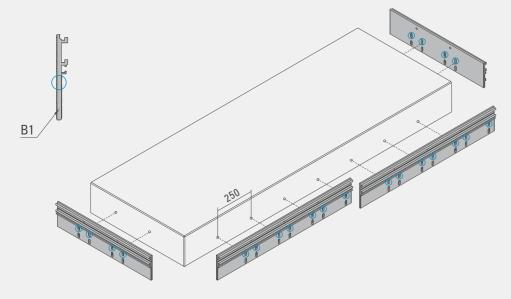


#### GL/-SS///7E BALARDO aqua control

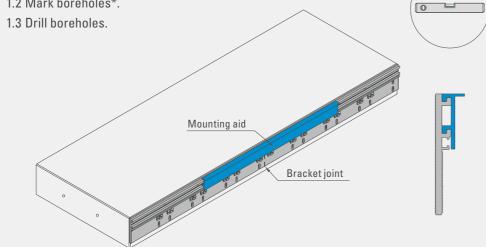
#### Installation

Substructure

#### System 1



- 1.1 Set brackets with spirit level.
- 1.2 Mark boreholes\*.

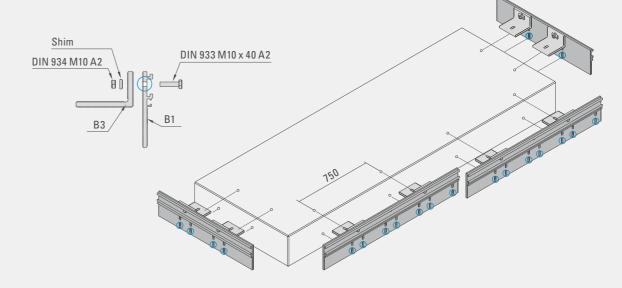


- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.

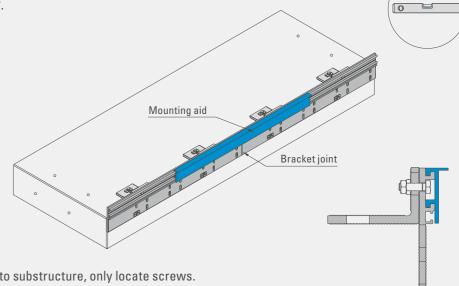
#### Installation

Substructure

#### System 2



- 1.1 Set brackets with spirit level.
- 1.2 Mark boreholes\*.
- 1.3 Drill boreholes.



- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.

<sup>\*</sup> For the number of fixing points, see page 36. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.



<sup>\*</sup> For the number of fixing points, see page 24. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.

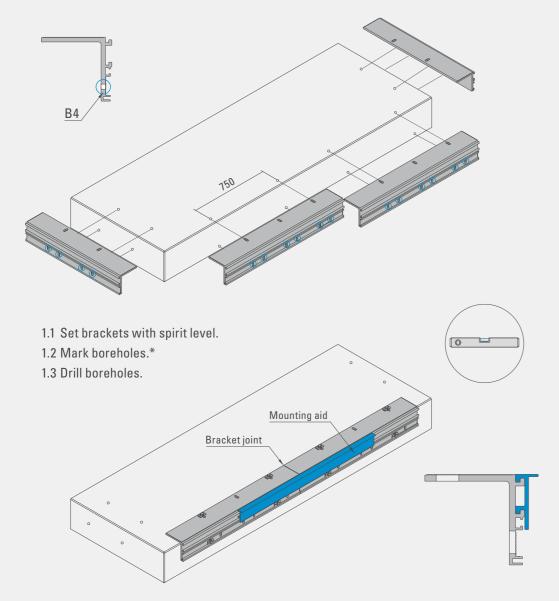


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#### Installation

Substructure

#### System 3

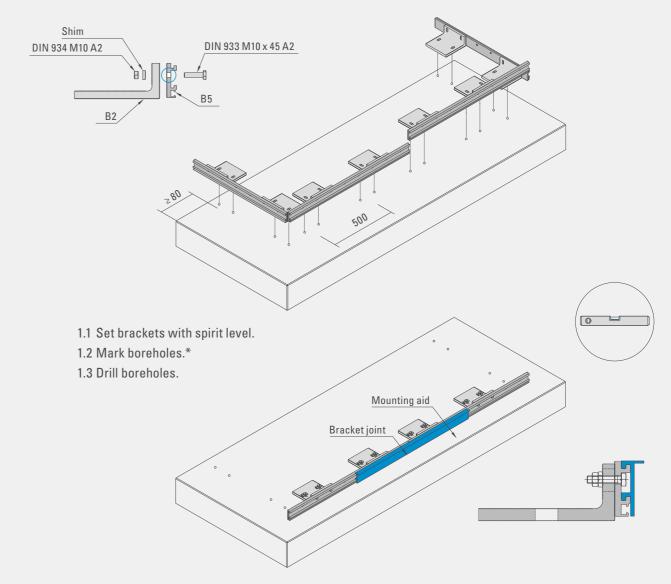


- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.
- \* For the number of fixing points, see page 48. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.

#### Installation

Substructure

#### System 4



- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.
- 1.8 If required, insert locking screw, see page 161

<sup>\*</sup> For the number of fixing points, see page 60 All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.



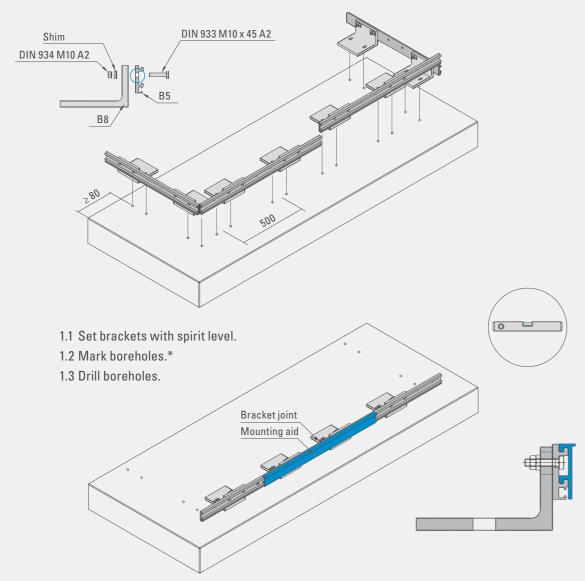


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#### Installation

Substructure

#### System 5



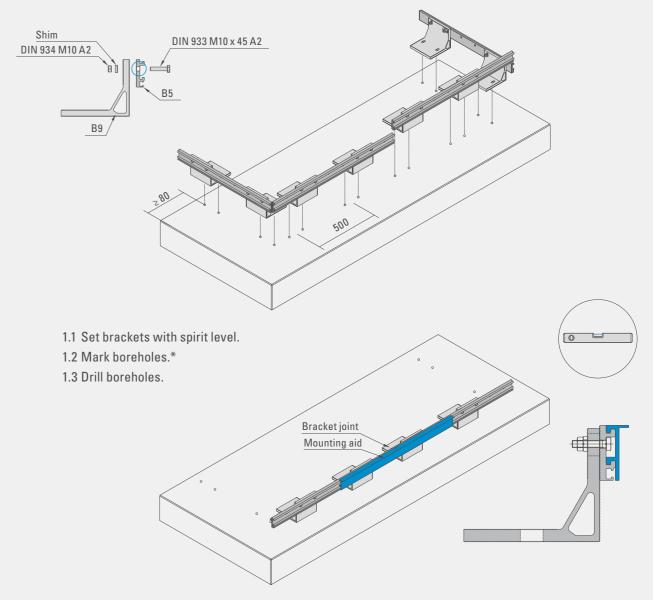
- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.
- 1.8 If required, insert locking screw, see page 161

#### \* For the number of fixing points, see page 72. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.

#### Installation

Substructure

#### System 6



- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.

<sup>\*</sup> For the number of fixing points, see page 84. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.



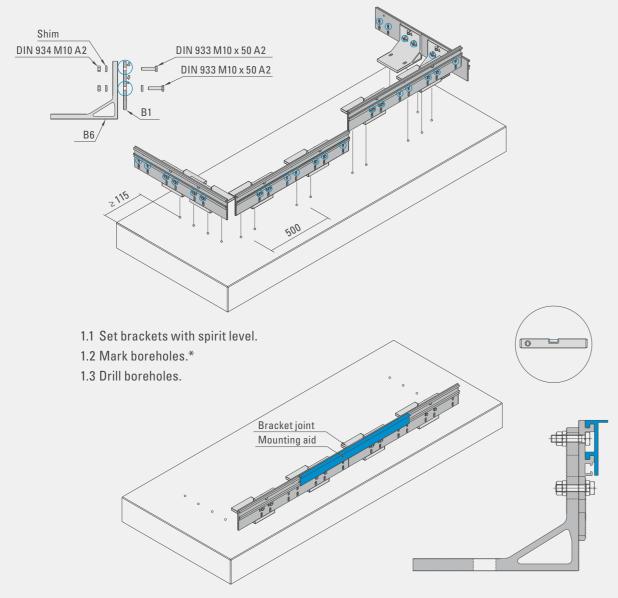


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#### Installation

Substructure

#### System 7

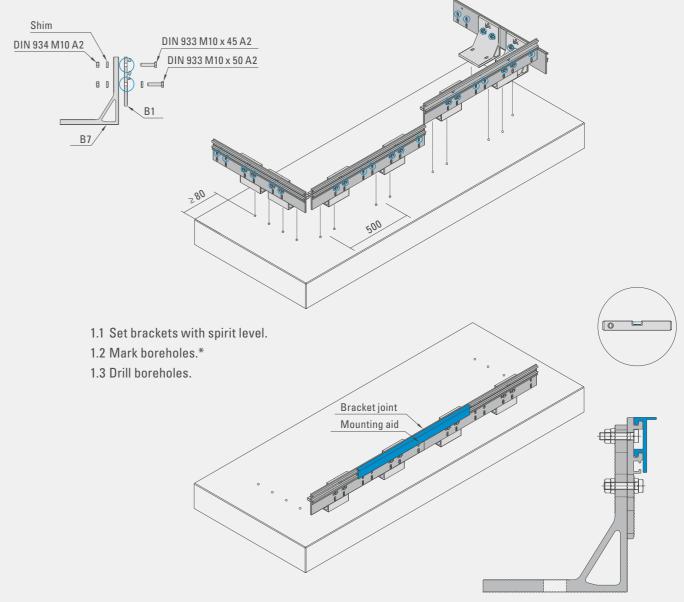


- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.
- \* For the number of fixing points, see page 96. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.

#### Installation

Substructure

#### System 8



- 1.4 Fasten brackets to substructure, only locate screws.
- 1.5 Align the brackets to one another with the mounting aid.
- 1.6 Align and tighten the two outer screws per bracket.
- 1.7 Remove the mounting aid again.

<sup>\*</sup> For the number of fixing points, see page 108. All screw connections must be permanently secured against loosening by means of a suitable threadlock, e.g. Loctite or equivalent.

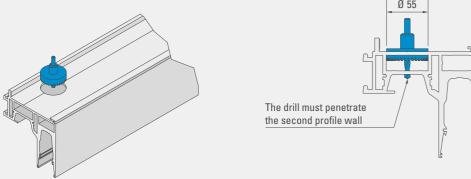


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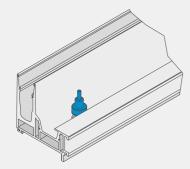
#### Installation

Drain connection

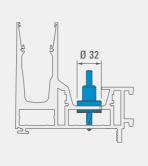
# Drilling groove 1 Determine drilling position.



2 Drill the profile from below with a Ø 55 core drill, use the profile groove.

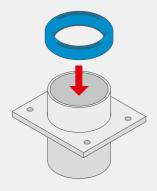


3 Drill the profile from above with a Ø 32 core drill, use centring hole from previous hole.

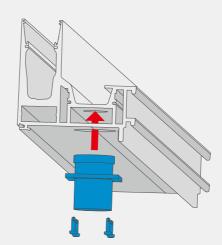


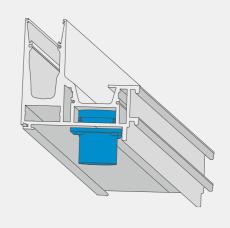
#### Installation

Drain connection



4 Press the sealing ring onto the drain connection.





5 Insert the connection piece in the profile and fasten it with 4 x self-tapping screws DIN 7504 4.8 x 19 mm A2.

The professional assembly and the execution of the sealing of the individual elements and the entire system suitable for permanent use must be ensured by the customer.

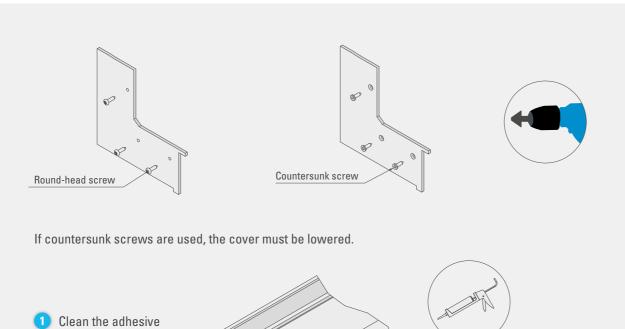




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#### Installation

End cover



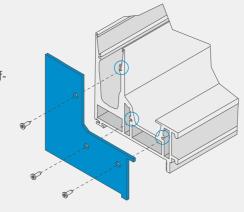
cleaner\*.

2 Apply sealant\* to the face of the profile.

surface with adhesive

3 Put on the cover and screw on with 3 x selftapping screws DIN7981 / DIN 7982

4.2 x 16 mm A2.



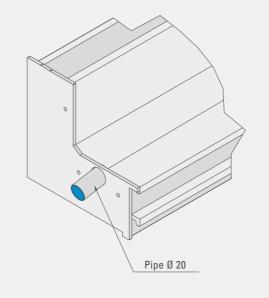
\* For tested tightness, use Sika Haftreiniger (adhesive cleaner) and Sikaflex Pro 3 or equivalent.

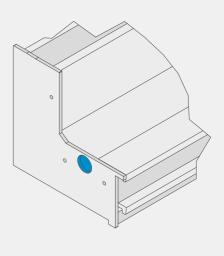
The professional assembly and the execution of the sealing of the individual elements and the entire system suitable for permanent use must be ensured by the customer. When using the sealant, the specifications and guidelines of the sealant manufacturer must be observed.

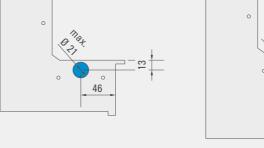
#### Installation

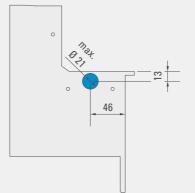
Drainage through end cover — optional

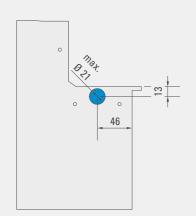
#### **Example of on-site water drainage**













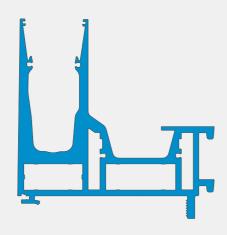
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#### Installation

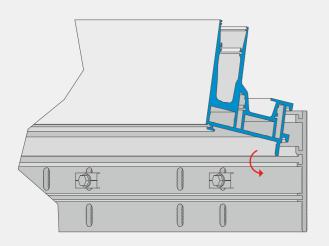
Basic profile

#### Installation

Mounting sequence I balcony

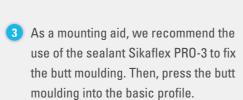


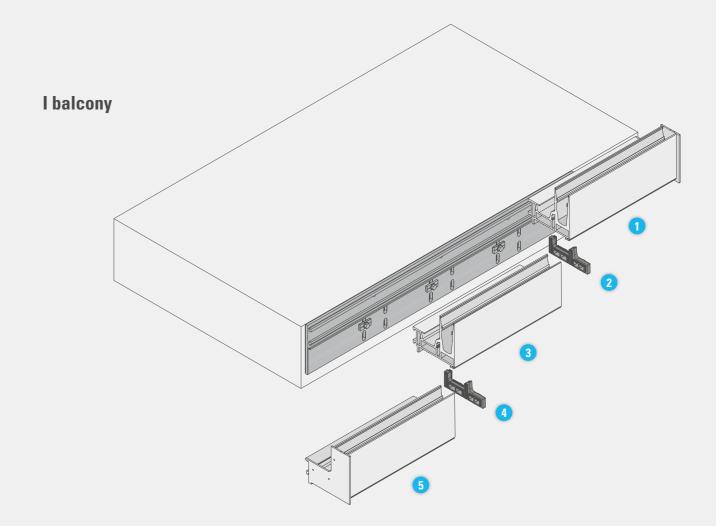
1 Clean the adhesive surface with adhesive cleaner.





2 Mount the base profile.





6 After hanging the profiles, tighten all screws of the substructure and secure against loosening (e.g. Loctite).



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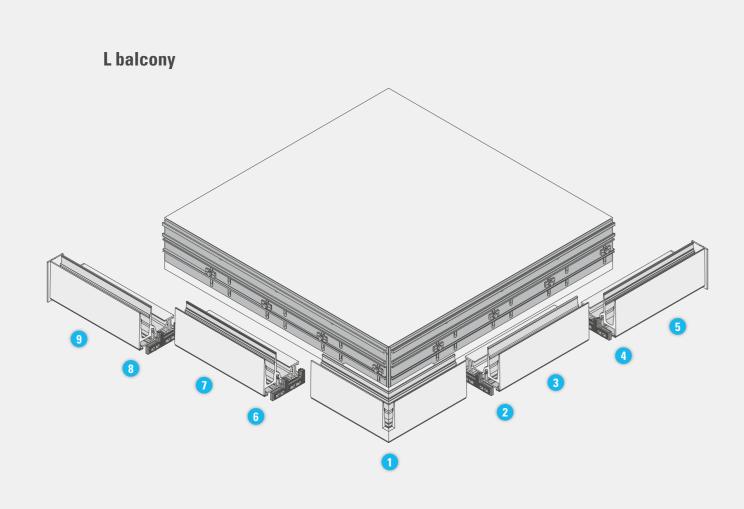
BALARDO aqua control

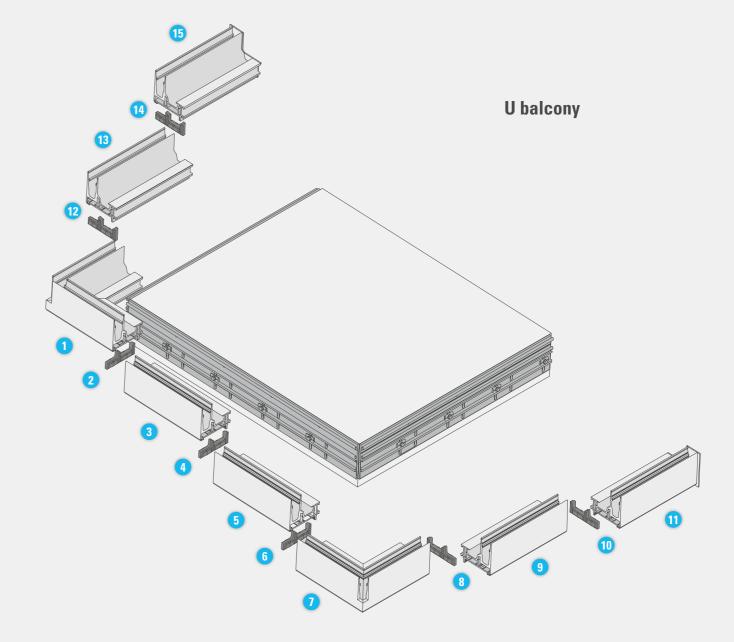
#### Installation

Mounting sequence L balcony

#### Installation

Mounting sequence U balcony





10 After hanging the profiles, tighten all screws of the substructure and secure against loosening (e.g. Loctite).

16 After hanging the profiles, tighten all screws of the substructure and secure against loosening (e.g. Loctite).



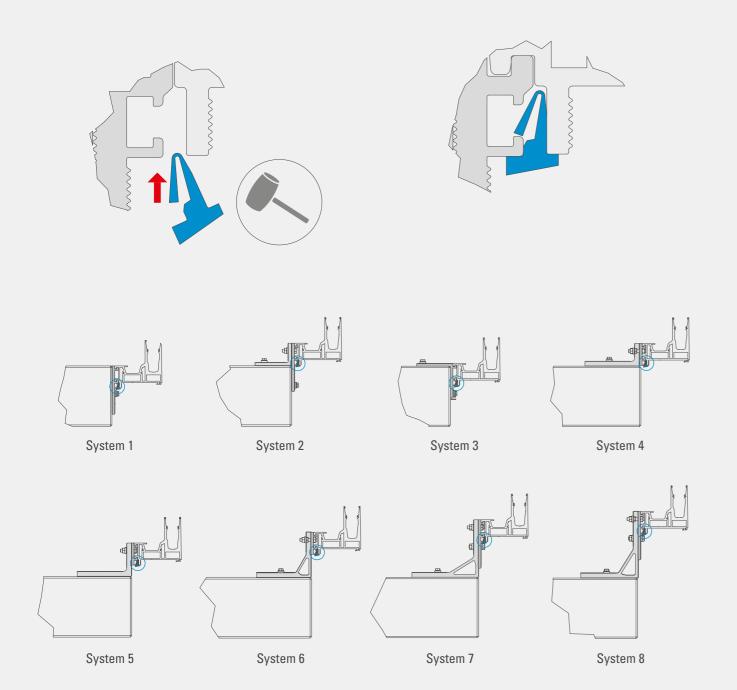
# GL/-SSL//7E BALARDO aqua control

#### Installation

Anti-lift-out device

#### inti-int-out device

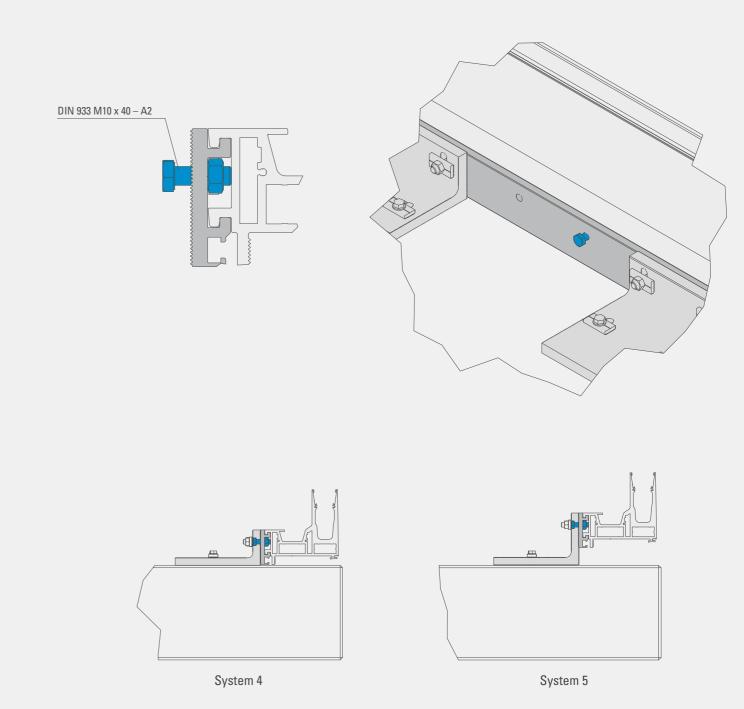
#### Securing clip 1 piece per meter



#### Installation

Anti-lift-out device

#### **Locking screw** 1 piece per meter

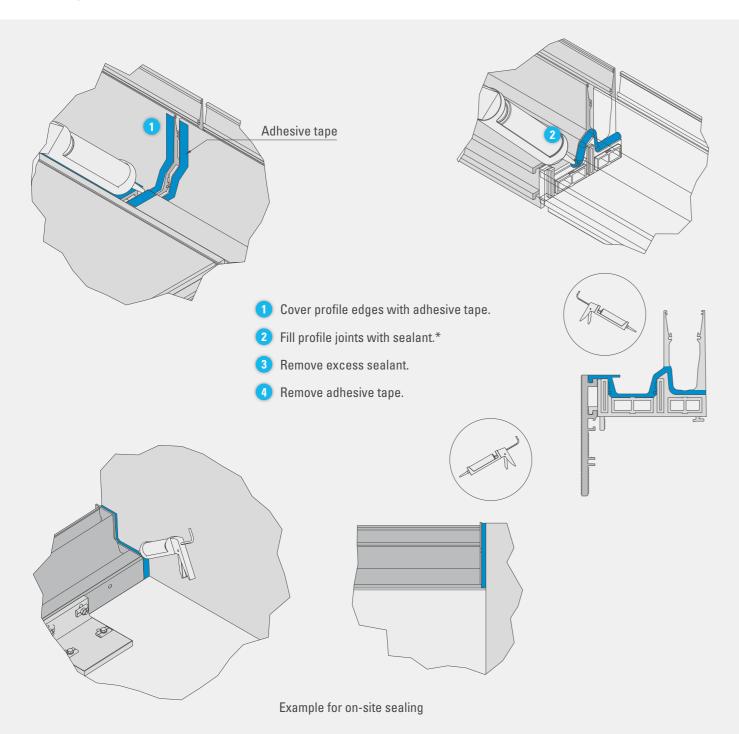






#### Installation

Sealing

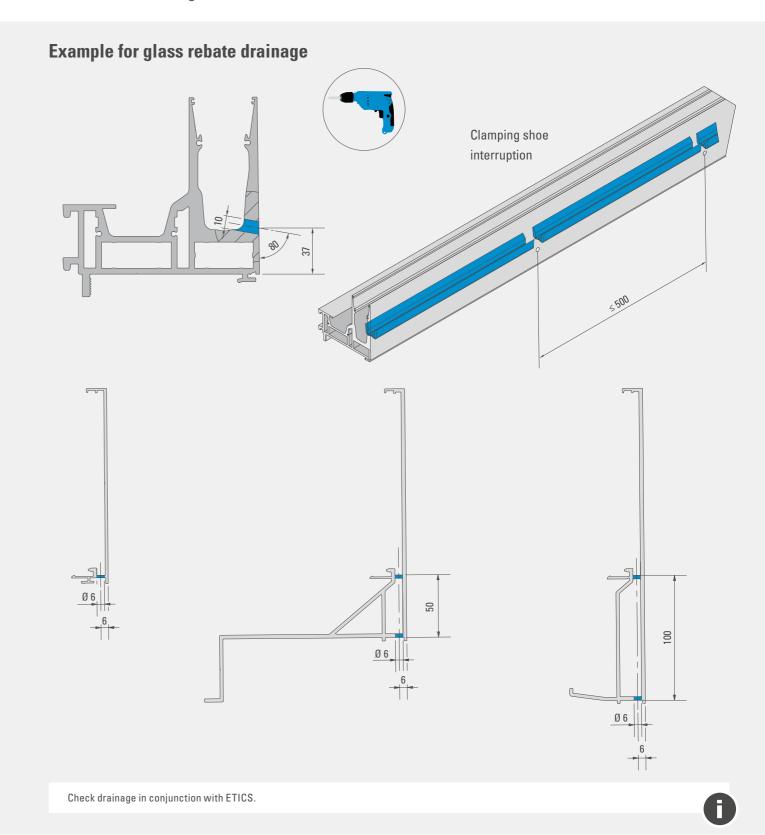


<sup>\*</sup> For tested tightness, use Sika Haftreiniger (adhesive cleaner) and Sikaflex Pro 3 or equivalent.

The professional assembly and the execution of the sealing of the individual elements and the entire system suitable for permanent use must be ensured by the customer. When using the sealant, the specifications and guidelines of the sealant manufacturer must be observed.

#### Installation

Glass rebate drainage



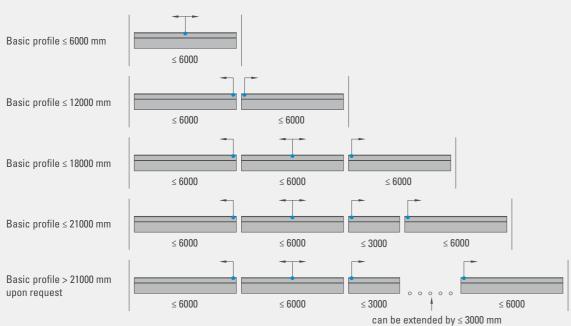


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#### Installation

Fixed bearing points

#### Fixed bearing straight balcony / I balcony

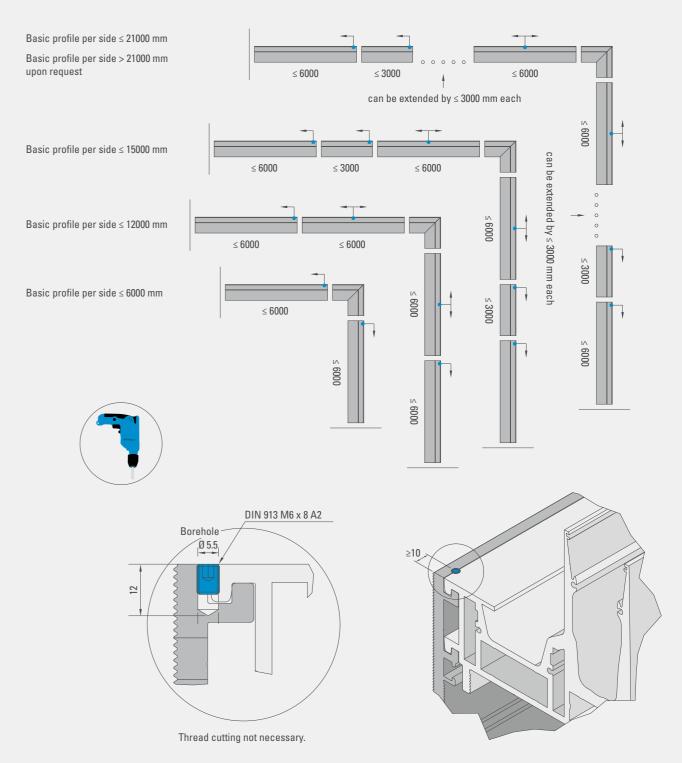


# Basic profile between corners ≤ 6000 mm Basic profile between corners ≤ 9000 mm Basic profile between corners ≤ 9000 mm Can be extended by ≤ 3000 mm Second Se

#### Installation

Fixed bearing points

#### Fixed bearing L balcony



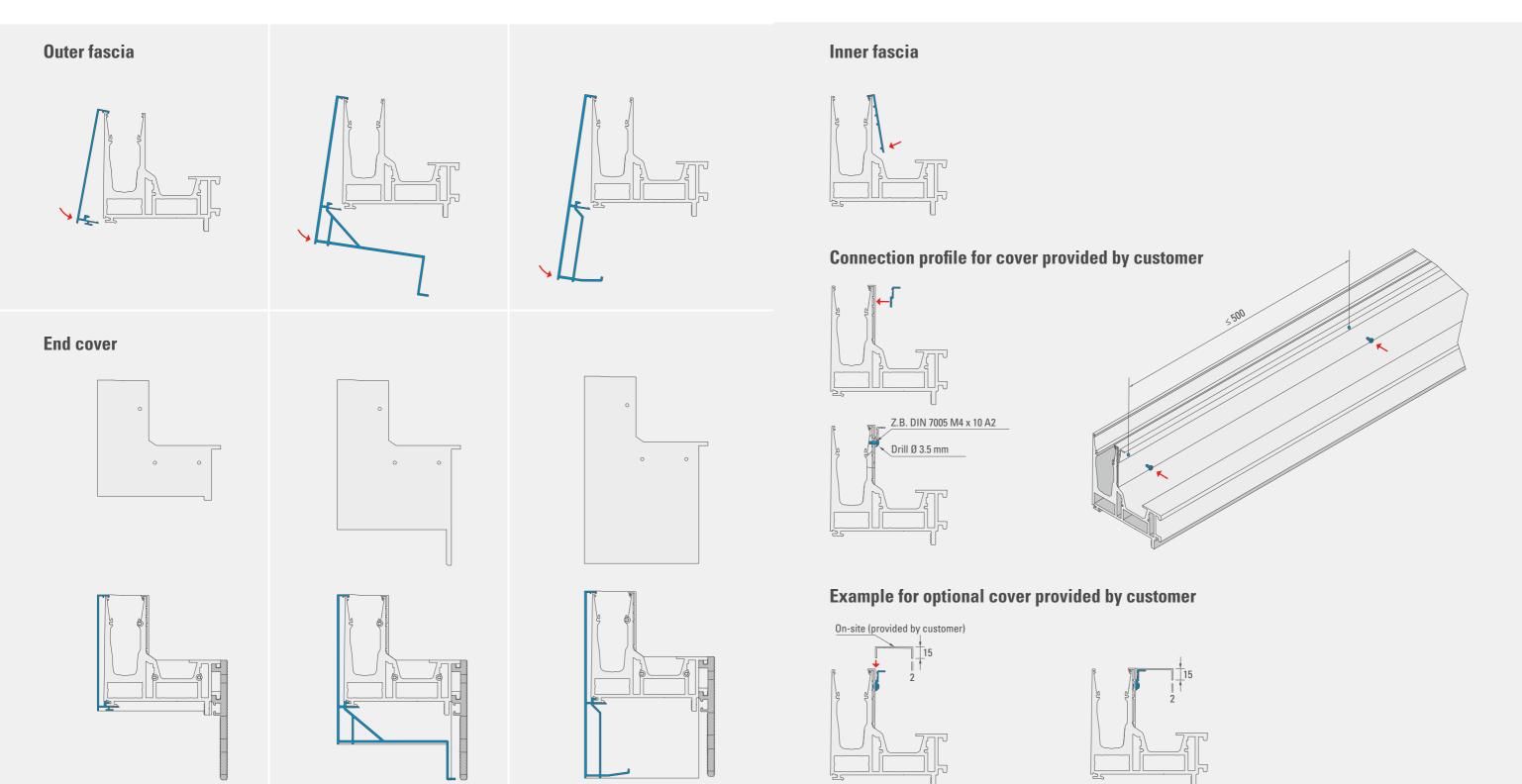




#### Installation

Fascia

### **Installation** Fascia







#### **Installation instructions**

**CLEVERFIX mounting on the BALARDO** aqua control

#### Adjustable from both sides.

**CLEVERFIX** mounting allows you to adjust your panes from the inside and outside at any time and on any construction site!

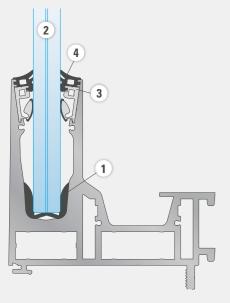
Regardless of inside or outside. You can use a cordless screwdriver to easily adjust the threaded studs to move the pane through the positioning elements and thereby position these correctly for your construction project.



Installation video available at www.glassline.de/montage-cleverfix



#### The CLEVERFIX mounting set





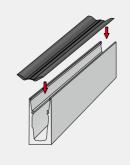
- 1 Clamping shoe
- 2 Glass

- 4 Internal and
- Material: EPDM
- 3 Positioning elements Material: POM + Aluminium Delivery length: 1000 mm
  - external seals
    - Material: EPDM
- Delivery length: 3000 mm

Screws: M 6 x 12 mm

Delivery length: 3000 mm

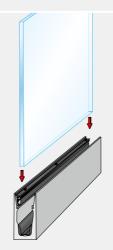
#### **Installation instructions for CLEVERFIX**



1 Insert the clamping shoe.



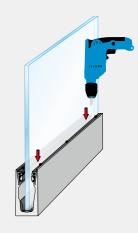
2 Clip in the outer positioning element.



3 Insert the glass pane.



Clip in the inner positioning element



**5** Fix the screws to the positioning element and insert the pane into the correct place. You can use a cordless screwdriver to easily adjust the set screws on the inside and outside. Distance between the screws: 200 mm.



**6** By screwing in the threaded stud to the left, the positioning element presses against the pane and pushes it to the right.



7 By screwing in the threaded stud to the right, the positioning element presses against the pane and pushes it to the left.



8 Insert the end seals. Before doing so, observe the fascia mounting.

Please use a longer bit.

