Usage instructions

Notes on the document

This installation guide is intended as an aid for the installation of prefabricated products. It contains specifications on the scope of delivery, proper professional installation as well as test and adjustment of the product when necessary. The contained information and specifications, constructions, details and stated products are based, unless otherwise stated, on the certificates of usability (e.g. National Technical Test Certificate (abP) valid at the date they are published as well as on the applicable standards. In addition, design and structural requirements and those regarding building physics (fire protection and sound insulation) are considered when necessary.

References to other documents

- Technical Information Knauf Balustrades SL02.de
- Technical Information Knauf Ceiling Aprons SL03.de

Legal notes

Safety instructions

This installation guide contains instructions that must be observed to ensure your personal safety and to avoid material damage.

Qualified personnel

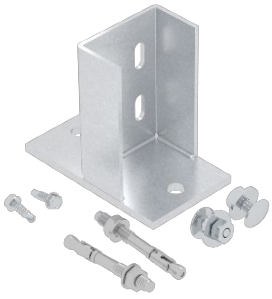
The respective tasks for the product/system described in this guideline may only be performed by suitably qualified personnel. The safety and warning instructions must be observed and followed. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products or systems.

Intended use of products and systems

Please observe the following:

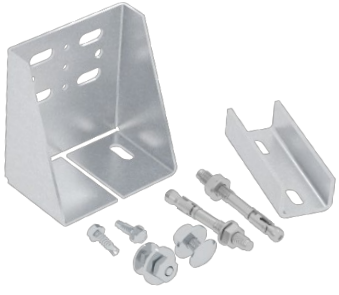
Caution	Knauf products / systems may only be used for the application cases as stated in the Knauf documentation. In case third-party products or components are used, they must be recommended or released by Knauf. Flawless application of products or systems assumes proper transport, storage, assembly, installation and maintenance.

Scope of delivery (Set)



Fixing kit
Aprons / Balustrades, sealed plastic package

- 1x Support base
- 2x Bolt anchors M10
- 2x Screws M8 x 16
- 2x Washers
- 2x Hexagonal nuts
- 2x Bolt screws

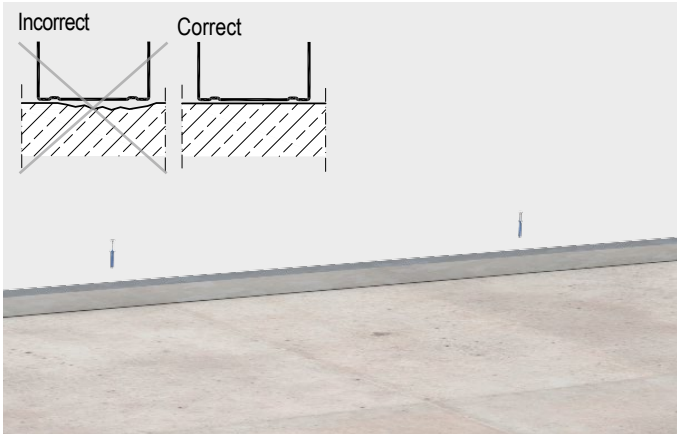


Fixing kit
Aprons / Balustrades

- 2x Angle brackets
- 2x U-pieces
- 4x Bolt anchors M8
- 4x Screws M8 x 25
- 4x Washers
- 4x Hexagonal nuts
- 4x Bolt screws

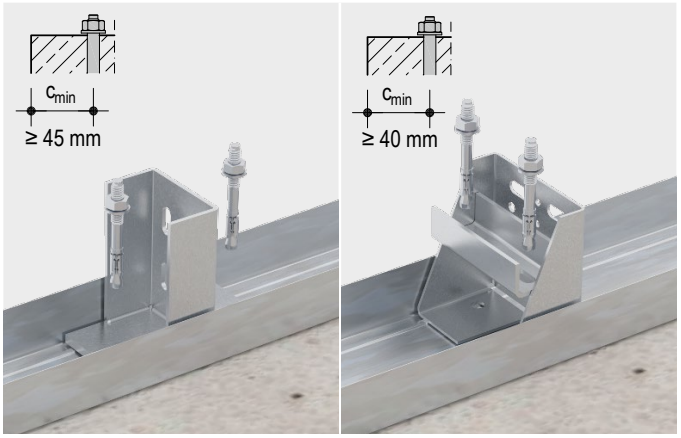
Balustrade installation procedure

Figure 1: Installation of the lower UW runner, determination of the first balustrade partial section



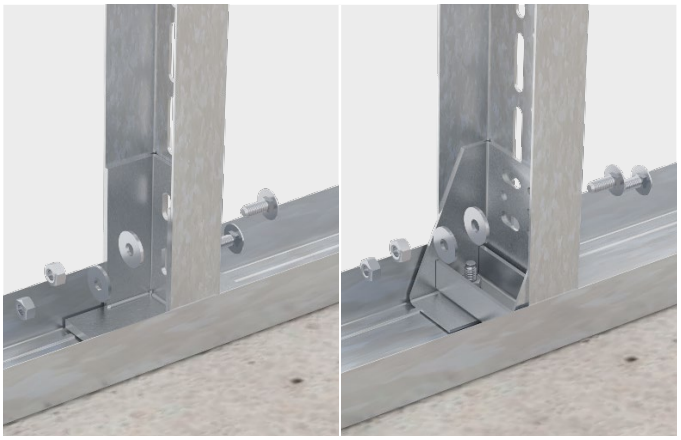
Install the UW runner on the basic floor. The UW runner may not be left hollow, a flat strip with suitable equalization material must be applied if necessary.
Recommendation: First partial section ≤ 5.00 m.
Observe the axial spacing of the profiles acc. to use categories.

Figure 2: Installation of support base (UA 75) or angle bracket with U-piece (UA 100)



Determine the position of the support base or angle bracket and drill the holes in the floor. Now fix the support base or angle bracket using U-pieces with the 2 enclosed bolt anchors (observe c_{min}).

Figure 3: Adjust the UA profiles



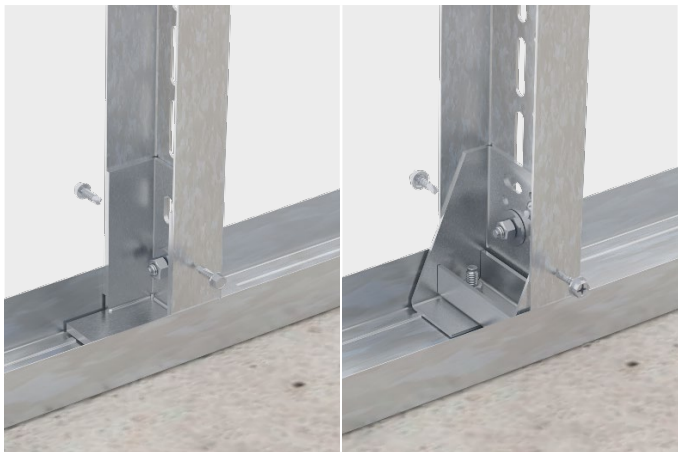
Cut the UA profile to the required length. Plug it onto the support base or angle bracket and screw it hand tight using the enclosed M8 screws with washers and nuts. Adjustability of the profiles for alignment purposes is required.

Ballustrade installation

Figure 4: Alignment of the first and last UA profile

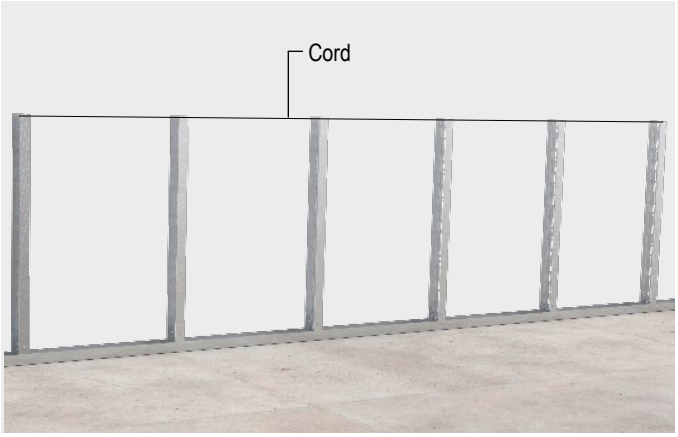
Alignment of the first and last UA profile of the first partial section.

Figure 5: Fix the UA profile



Screw fasten the UA profile using the 2 enclosed bolt screws onto the side of the support base side wall or angle bracket flange. Subsequently tighten the M8 screws.

Figure 6: Intermediate profile installation

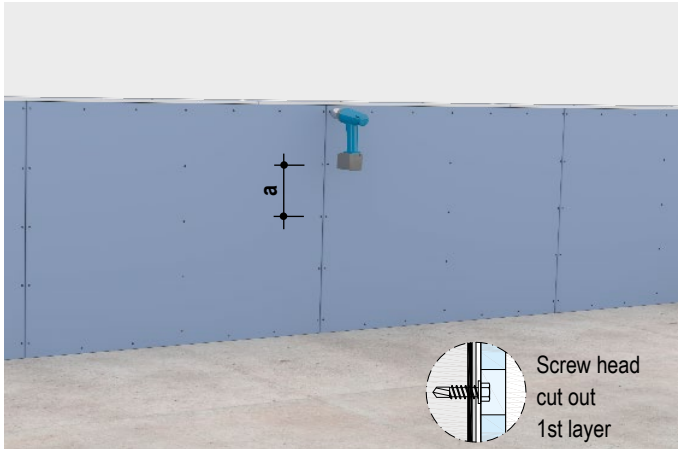


Attach a cord to the first and last UA profile. Determine the profile axial spacing (312.5 mm, 417 mm or 625 mm) acc to use categories. Installation of the support bases or angle brackets with UA profiles as previously described. Continuously align the UA profiles on the cord.

Figure 7: Installation of the UW runner

Push on the UW runner and ensure correct alignment.

Figure 8: Balustrade cladding



Cladding on both sides as well as on the top side with 12.5 mm Diamant boards.

Fastening spacing **a**: lower layer ≤ 750 mm, upper layer ≤ 250 mm.

- Cut-out the 1st cladding layer in the screw head area.
- 2nd cladding layer remains intact.

Observe the metal gauge of the profiles and select suitable screws (XTN or XTB).

Screw fastening in the upper third should be undertaken with counter-pressure.

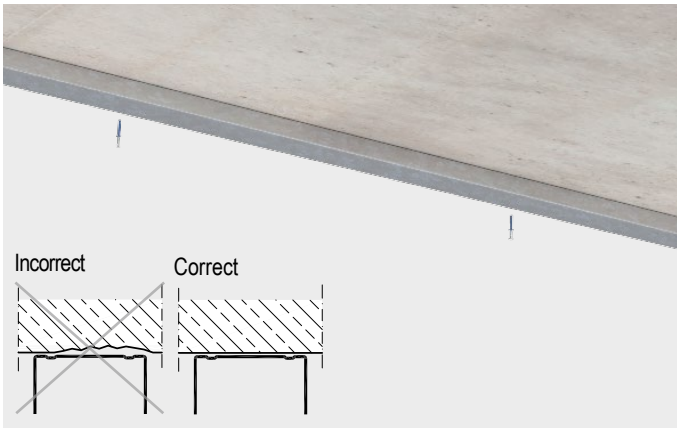
Jointing

Fill the joints of the upper and lower layer correctly and use an edge profile if required. Fill in screw heads as well.

Commence with the installation of the following partial section(s), cladding layers must be uninterrupted.

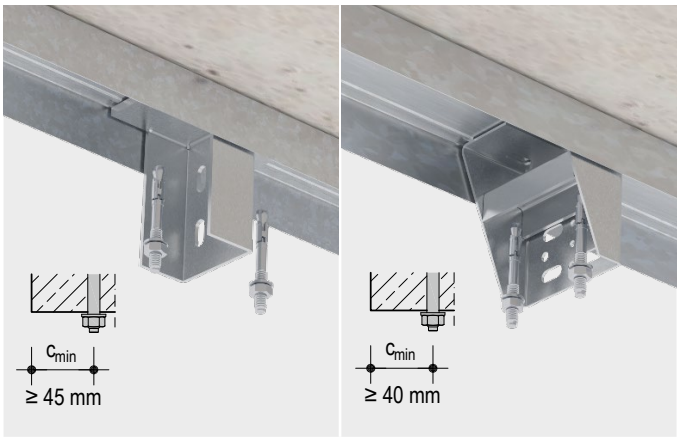
Ceiling apron installation procedure

Figure 1: Installation of the upper UW runner, determination of the first ceiling apron partial section



Install the UW runner on the basic ceiling. The UW runner may not be left hollow. Use a metal shim or spacer in the stud area.
Recommendation: First partial section ≤ 5.00 m.
Observe the axial spacing of the profiles acc. to load combination.

Figure 2: Installation of support base (UA 75) or angle bracket with U-piece (UA 100)

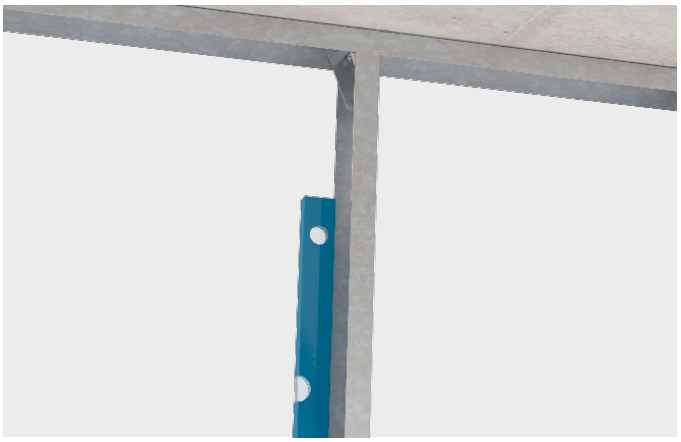


Determine the position of the support base or angle bracket and drill the holes in the basic ceiling. Now fix the support base or angle bracket using U-pieces with the 2 enclosed bolt anchors (observe c_{min}).

Figure 3: Plug in the UA profiles

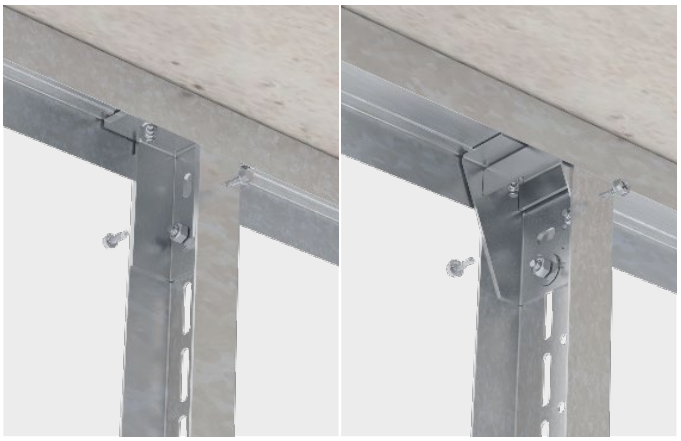
Cut the UA profile to the required length. Plug it onto the support base or angle bracket and screw it hand tight using the enclosed M8 screws with washers and nuts. Adjustability of the profiles for alignment purposes is required.

Figure 4: Alignment of the 1st and last UA profile



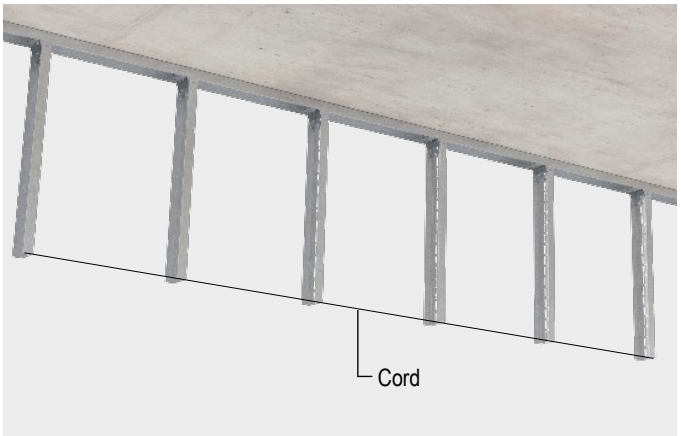
Alignment of the first and last UA profile of the first partial section.

Figure 5: Fix the UA profile



Screw fasten the UA profile using the 2 enclosed bolt screws onto the side of the support base side wall or angle bracket flange. Subsequently tighten the M8 screws.

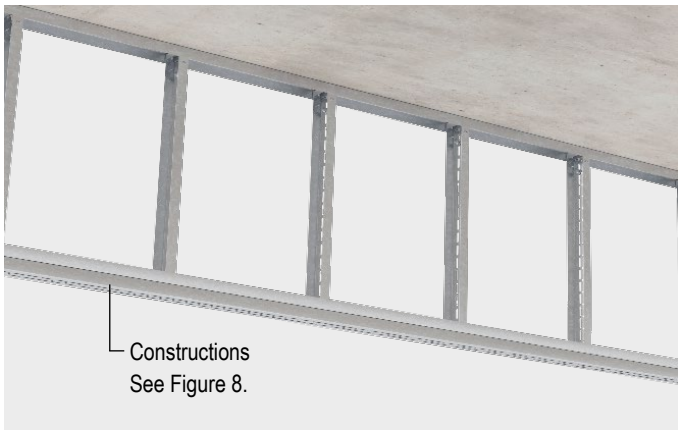
Figure 6: Intermediate profile installation



Attach a cord to the first and last UA profile. Determine the profile axial spacing (312.5 mm, 417 mm or 625 mm) acc. to the load combination. Installation of the support bases or angle brackets with UA profiles as previously described. Continuously align the UA profiles on the cord.

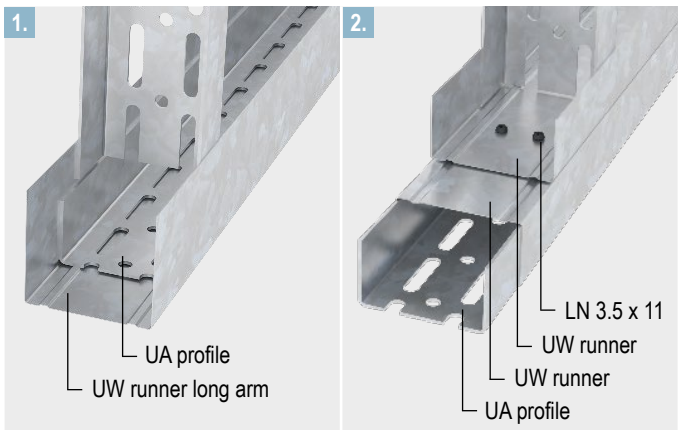
Ceiling apron installation

Figure 7: Installation of UW runner construction lower ceiling apron end



Push on the UW runner construction, fix and ensure correct alignment.

Figure 8: Design of lower ceiling apron end

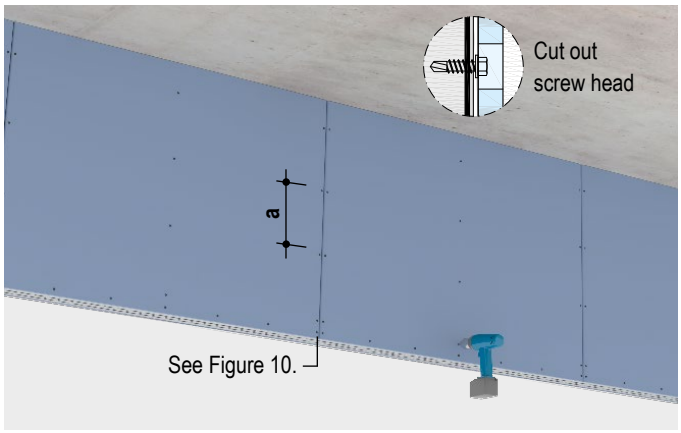


1. Insert the UA profile into the long UW runner arm, and plug it onto the UA stud construction and fix right up to the screw cladding. Remove the fixing during cladding.
2. Manufacture a double UW runner, plug onto UA stud construction and fix. Subsequently nest the UA profile (if desired the UA profile without oblong slot) in the UW runner and fix right up to the screw fastening of the cladding. Remove the fixing during cladding.

The UA profile serves as a frictional bonding connection option for the constructional component to be connected. Ensure that the lap of the UA profile is not aligned downwards.

Videos for Knauf systems and products can be found under the following link:
youtube.com/knauf

Figure 9: Ceiling aprons cladding

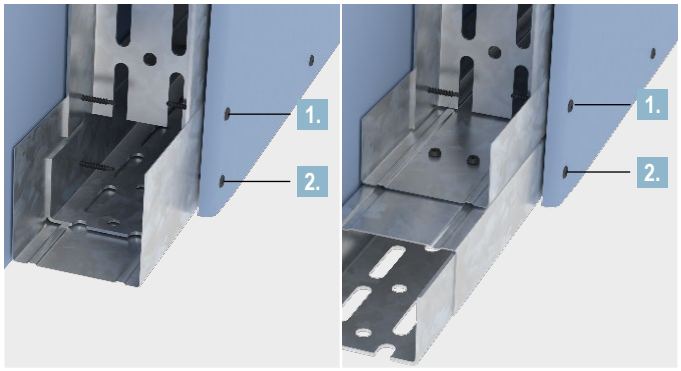


Cladding on both sides 12.5 mm Diamant boards.
Fastening spacing **a:** ≤ 250 mm.

- Cut-out the cladding on the rear of the screw head area.

Observe the metal gauge of the profiles and select suitable screws (XTN or XTB).
Screw fastening in the lower third should be undertaken with counter-pressure.

Figure 10: Cladding screw fastening of the lower end of the ceiling apron



1. Connection of UW runner with UA flange
2. Connection between inserted UA profile with lower UW runner via the screw fastening of the cladding

Alternative cladding possible with 2x 12.5 mm Diamant boards.
Fastening spacing **a**: lower layer ≤ 750 mm / upper layer ≤ 250 mm

Jointing
Fill the joints correctly and use an edge profile if required. Also fill cut-outs and screw heads.

Commence with the installation of the following partial section(s), cladding layers must be uninterrupted.

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