2.8 Connection Methods and creation of Profile Joints

When fixing wall copings in place with continuous cleats, soft soldering is generally used to join the individual coping lengths together. Although adhesive bonding is also possible, it is rarely used in practice.

The profile joints can take a variety of forms. The key factors here are the existing slope, coping width and the required result in terms of design.
Some examples of different cross joints are illustrated. Besides the illustrated examples this detail can also take the form of a standing seam. In this case it must be ensured that linear expansion is possible. We recommend using lengths of max. 2 m, which are fixed in place at the centre. A gap of 3 – 5 mm should be left between the seams.

2.8.1 RHEINZINK-UDS-Connector

The underlapping (UDS) butt connector offers multipurpose usage. Lap strip joint connectors (UDS-Connectors) made of RHEINZINK ensure rainproof seam connections for different copings without any need for additional sealing. A special profile geometry prevents capillary penetration of rainwater. The individual lengths of the wall coping are butt-jointed together on the RHEINZINK-UDS-Connector (butt joint approx. 10 mm with 3 m profile lenghts). The open joint allows the coping profiles to move freely, so dispensing with the need for expansion elements.

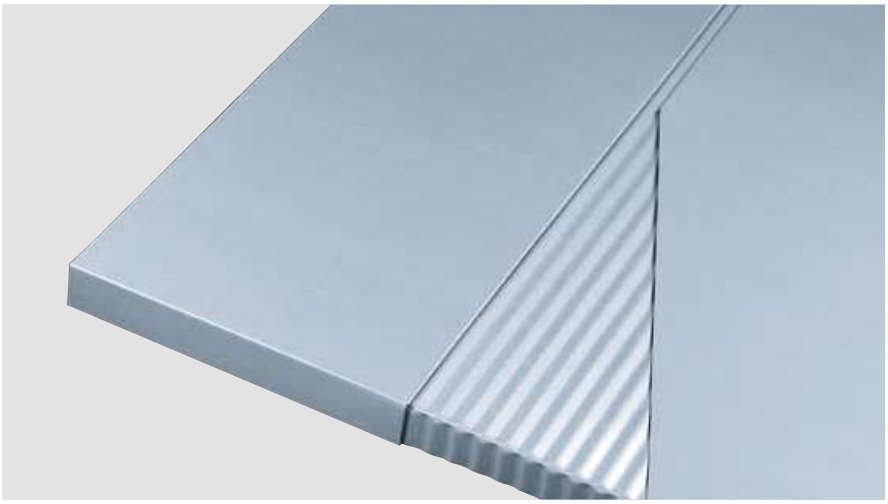


Fig. 16: The UDS-Connector is available in RHEINZINK's three finishes.

Applications
RHEINZINK's corrugated UDS-Connector can be used on transverse slopes ≥ 3° with:

- Wall copings
- Roof edge copings
- Cornice copings
- Window sill flashings

Where the coping profiles join, the continuous cleat is interrupted by the folded RHEINZINK-UDS-Connector, which ensures that the connection is rainproof. The ends of the profile are installed with an open butt joint approx. 10 mm wide.

If an even greater degree of tightness to rain is required, the connection can be additionally sealed with ENKOLIT® cold-applied bitumen adhesive at the overlaps.

Product Dimensions
Metal thickness: 0.80 mm and 1.00 mm
Profile width: 250 mm and 333 mm
Standard length: 3.0 m (other lengths on request)
The UDS-Connector is available in RHEINZINK's three surface qualities.

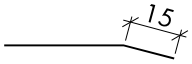
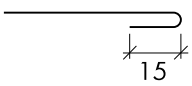
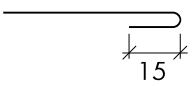
Coping width, mm	≤ 400	> 400 to ≤ 600
Width of butt strap, mm	250	333
Design of abutting edges	Cranked edge 	
	Single turnover 	Single turnover 

Table 4: Butt joints with different coping widths

Fig. 17: UDS-Connector for a wall coping with inside corner

Fig. 18: UDS-Connector for a cornice coping

Processing

Profiled RHEINZINK strips can be cut, folded and curved using standard metal working machines and tools. Bending brakes and presses should be set to a metal thickness of 3 mm. A single turnover is recommended for an aesthetically pleasing result.

Fig. 19: RHEINZINK-UDS-Connector

Benefits of UDS-Connector

- Rainproof connection for all copings
- No soldering required
- No streaking
- No additional sealing required
- Expansion accommodated
- Fast installation
- Made of RHEINZINK QUALITY ZINC