

Tongue and groove connection

OF METAWELL® AND
METAWELL® ALUFLEX

Tongue and groove of Metawell® and Metawell® Aluflex

Metawell® panels can be installed in a simple, dimensionally stable and inexpensive way with a tongue and groove connection.

- Simple: A groove is milled into two Metawell® panels using a customary slitting cutter. The Metawell® panels are then stuck together using a fitting connecting profile.
- Dimensionally stable: Thanks to the 0.3 mm thick aluminium sheet used for the corrugation, which has high yield strength, the remaining corrugation parts stabilize the cover panels in the area of the groove and at the same time work as elastic spring elements.
- Cost-effective: The spring effect of the remaining corrugation ensures that the perfect fit of the connecting profile is retained in the groove even with slight movements. An additional filling of the panel edge is not necessary.

The tongue and groove connection for Metawell® and Metawell® Aluflex is the perfect choice for wall and ceiling applications.

Note:

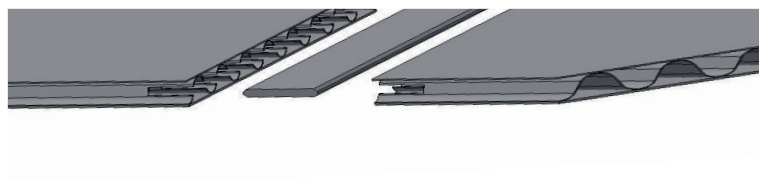
- Preliminary tests with appropriate samples are recommended.
- It is also possible to make use of commercially available flat profiles, but preliminary tests are then recommended.
- The described connection type can only be used on the panel side with open edges.
- The connection is not suitable for applications where forces are applied or bending moments must be transmitted.
- The use of CNC machines or table milling is recommended. Using hand tools such as top milling machines, a process-safe processing is only possible to a limited extent.

Tongue and groove of Metawell®

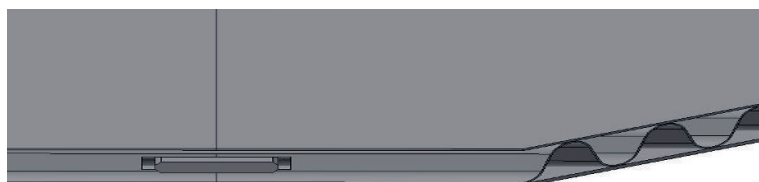
Make the groove by routing the corrugation of Metawell®



Insert the tongue



Connection of Metawell®



Remarks

Suitable for panel types with a panel thickness of 6 mm and 0.3 mm thick core material like e.g. Alu hl 08-02-05 hl / H6.

Profile: 1.5 x 26 mm

Depth of cut: approx. 14 mm

Groove height: 1.5 mm (depending on profile tolerance)

The groove does not need excess.

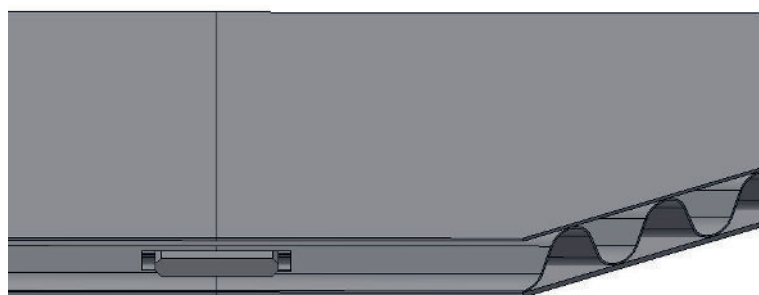
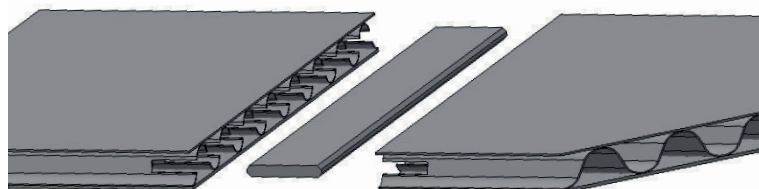
Position of the groove: in the middle (even with unequal cover layers)

Tongue and groove of Metawell®

Make the groove by routing the corrugation of Metawell®

Insert the tongue

Connection of Metawell®



Remarks

Suitable for panel types with a panel thickness from 10 mm and 0.3 mm thick core material like e.g. Alu hl 10-03-05 hl / H10.

Profile: 3 x 42 mm

Depth of cut: approx. 22 mm

Groove height: 3 or 4 mm (depending on profile tolerance)

The groove does not need excess.

Position of the groove: in the middle (even with unequal cover layers)

Tongue and groove of Metawell® Aluflex

Make the groove by routing the corrugation of Metawell® Aluflex

Insert the tongue

Connection of Metawell® Aluflex



Suitable for panel types from 9 mm and 0.3 mm thick core material, like e.g. Aluflex hl 08-03 hl / H9.2.

Profile: 1.5 x 26 mm

Depth of cut: approx. 14 mm

Groove height: 1.5 mm (depending on profile tolerance)

The groove does not need excess.

Position of the groove: not in the middle (2-3 mm away from cover sheet)

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