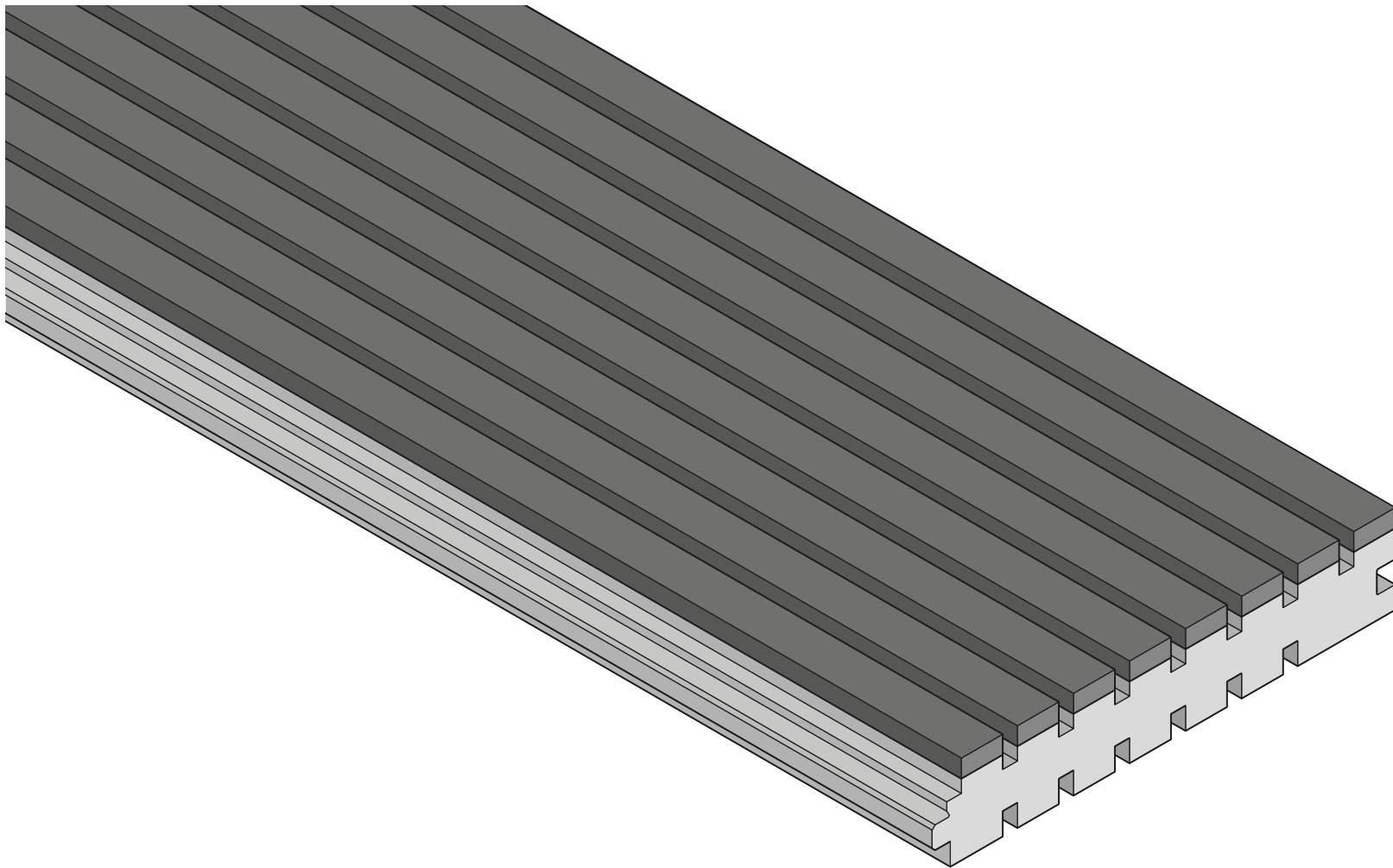


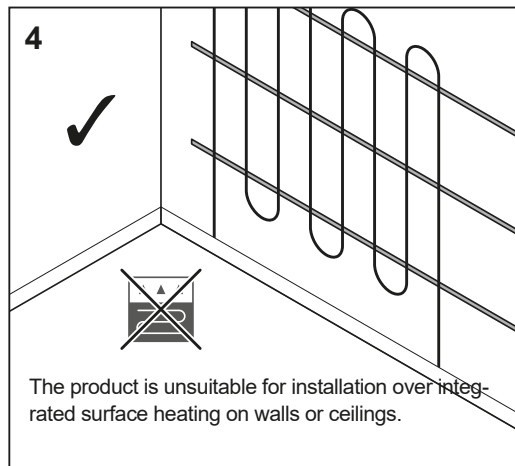
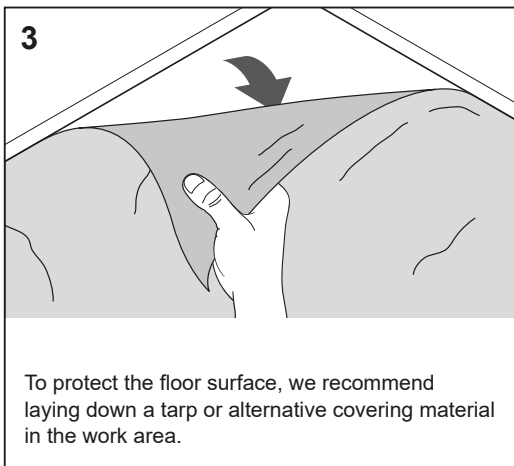
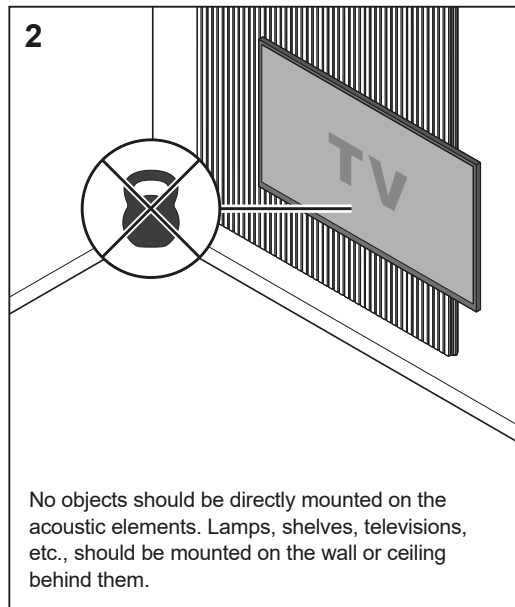
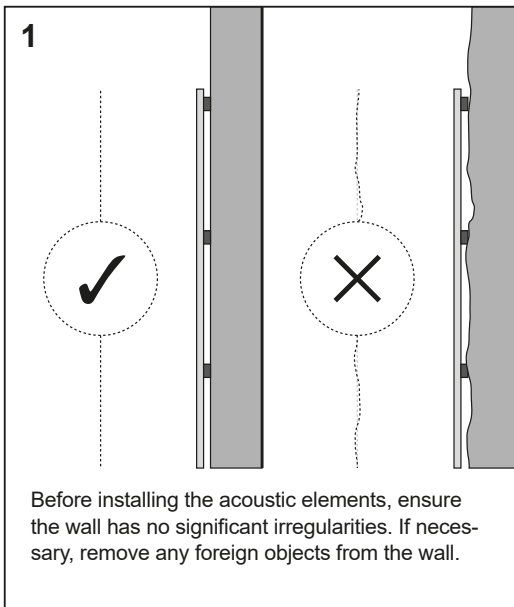
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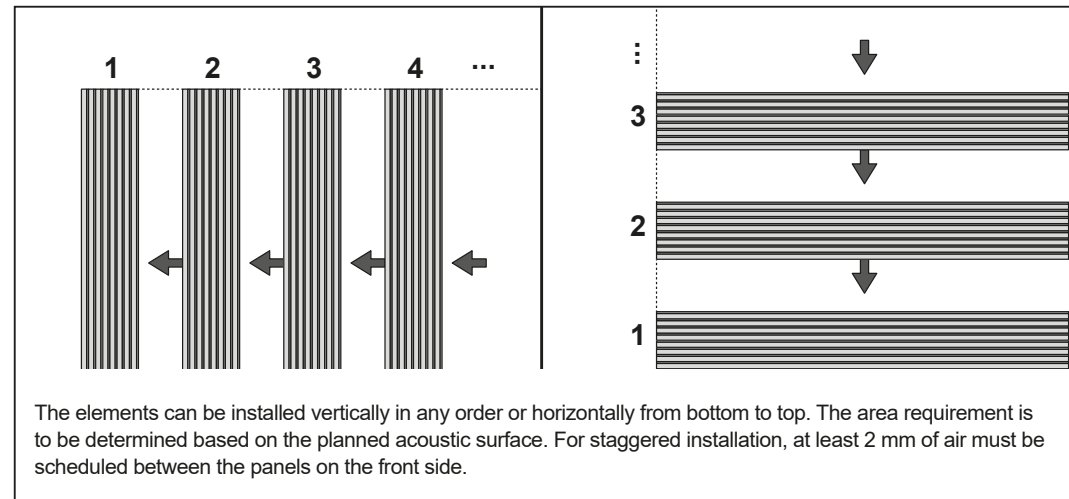
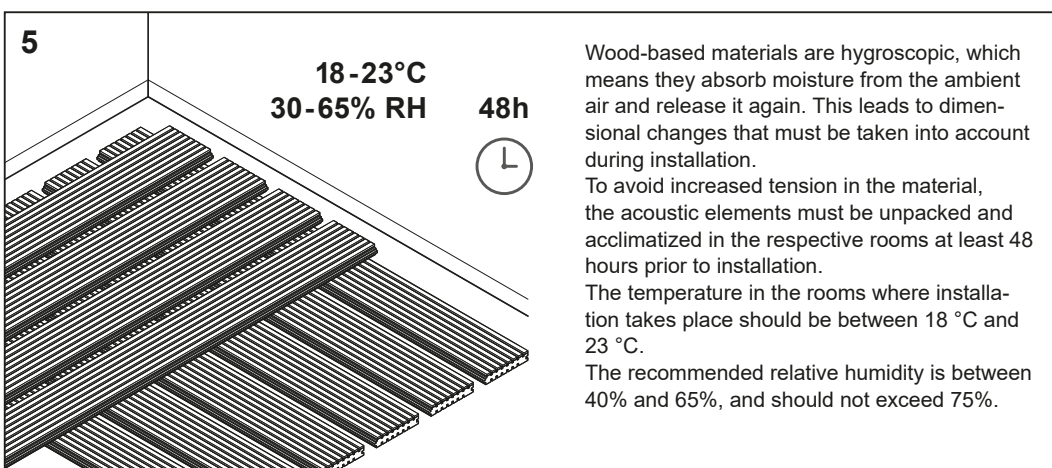
smartline INSTALLATION INSTRUCTIONS



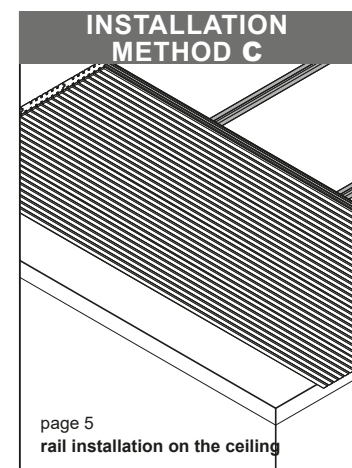
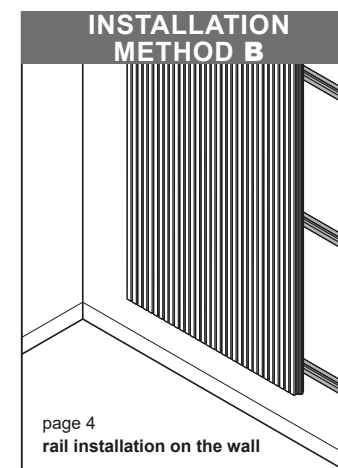
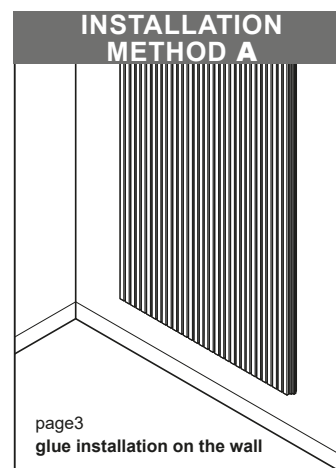
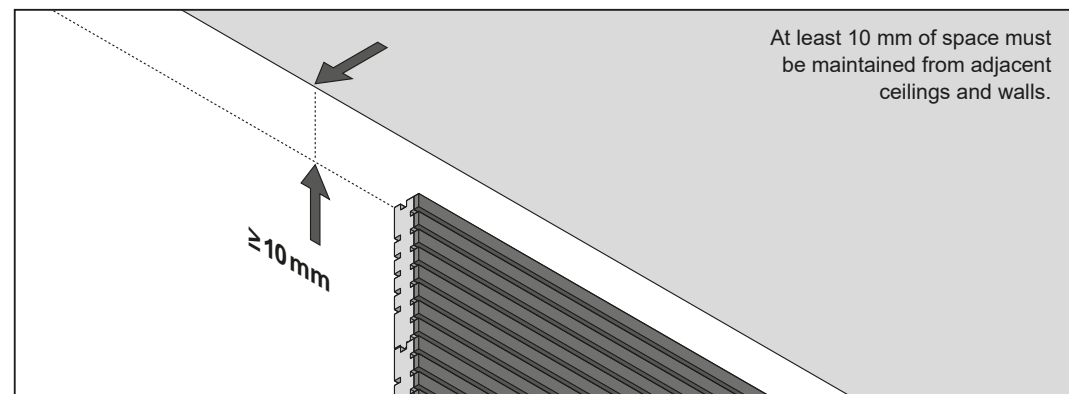
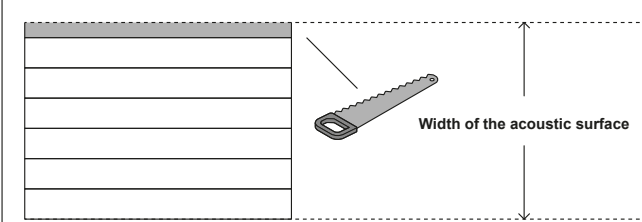
## GENERAL NOTES



**Note:** After removing the packaging and before processing, check the acoustic elements for visible damage. Special care is needed during transport and handling, as the elements may lose stability due to the slotted design compared to homogeneous panel materials. To avoid scratches on the surface, do not slide the decorative sides against each other or pull them over one another.



**Recommendation:** The acoustic area should be planned in advance. In particular, measure the width of the intended area and take into account that the elements in the last row may need to be trimmed and fitted. The panels may only be cut in the area of the grooves. The decorative ribs must always remain at full width.



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## Guide for Assessing Substrates for Glue Installation of Akustikplus smartline

**General Information:** The substrate must have sufficient load-bearing capacity to support the acoustic elements. The surface must be clean, dust-free, dry, straight, solid, grease-free, and smooth. Nails, screws, staples, or other fastening materials must be removed from the wall surface.

**Recommended Substrates:** Adequately fastened wooden and mineral construction boards (plywood, chipboard, OSB boards, gypsum fiberboard, fiber cement board, gypsum board). All non-sandy and solid base plasters, even with stable paint coatings.

### Unsuitable Substrates:

- Loose and unstable paint coatings and sandy plaster surfaces.
- Special coatings (oily, silicone, or latex-containing).
- Topcoats and gypsum-containing smooth plasters.
- Wallpapered surfaces.
- Walls and ceilings with residual moisture (salt efflorescence).
- Wall and ceiling constructions with integrated surface heating

### Checking Wall and Ceiling Surfaces Before Installation:

**1. Moisture:** The wall or ceiling to be clad must be dry. The drying times of newly applied interior plasters depend on the type of binder and climatic and structural conditions. The manufacturer's drying time specifications should be observed for newly applied base plasters.

**2. Flatness Tolerances:** Over a distance of 1 meter, the unevenness of the wall or ceiling surface should not exceed 3 mm.

**3. Strength:** The wall or ceiling surface must be checked for its strength properties before processing the acoustic elements. The following test methods should be used.

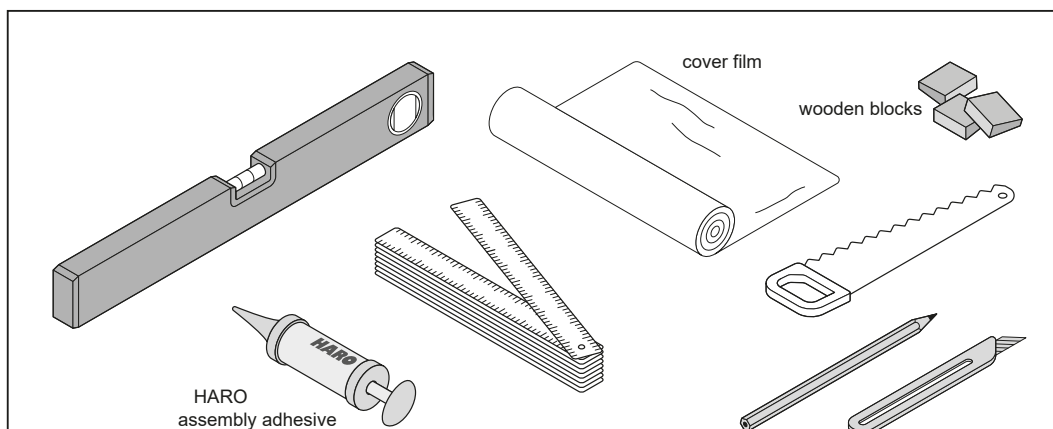
**3.1 Tapping:** By tapping and listening, for example, with a hammer, hollow spots or poor repair areas can be detected.

**3.2 Cross-Cut Test and Tape Pull-Off:** A piece of solid tape is applied to the area to be checked and abruptly removed. No residues should be seen on the tape if the coating still adheres properly to the substrate. Using a sharp tool (screwdriver, flat spatula, nail, etc.), a grid is scratched into the wall surface with moderate pressure (grid size approx. 10-15 cm). The grid squares are covered with tape without bubbles. After abruptly removing the tape, the cut edges and squares are assessed for smoothness or chipping.

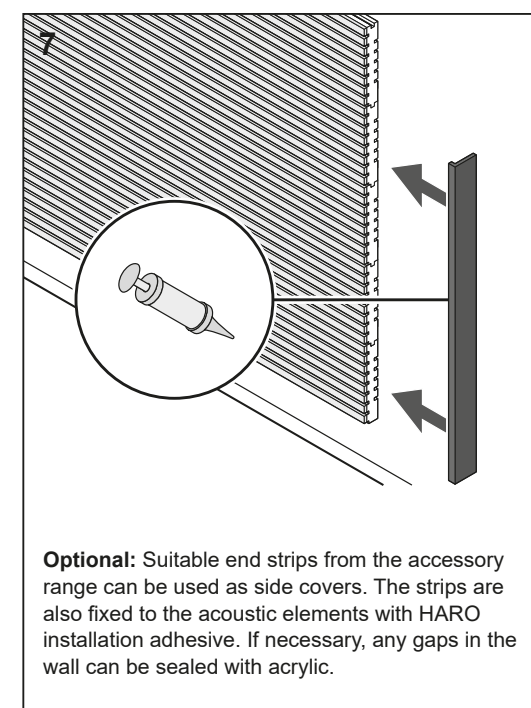
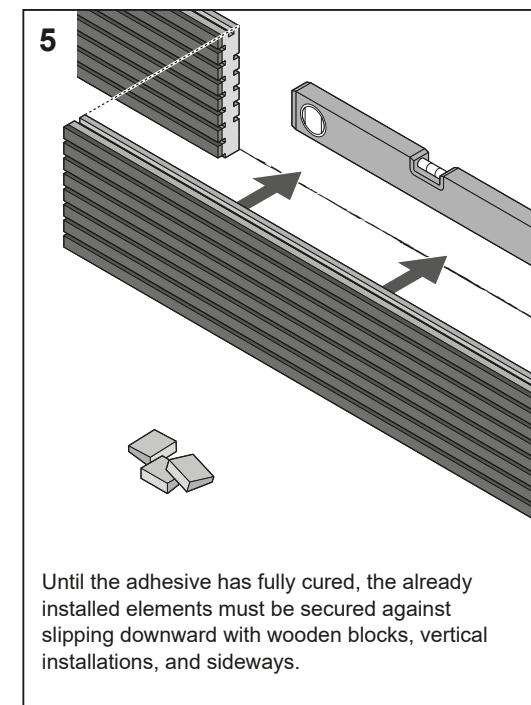
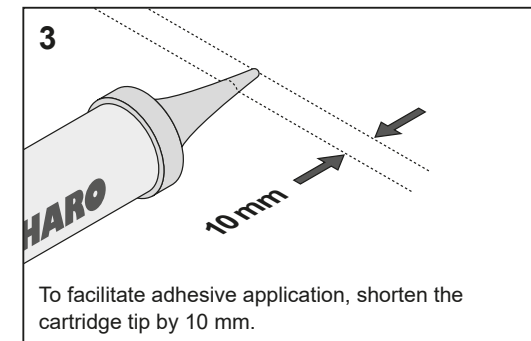
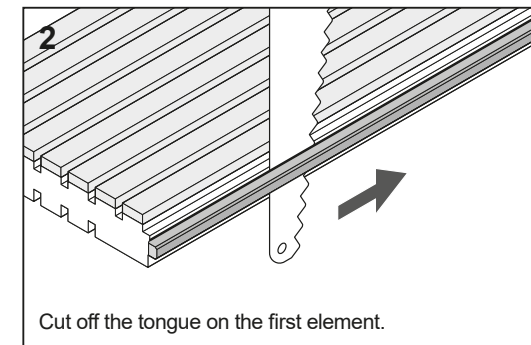
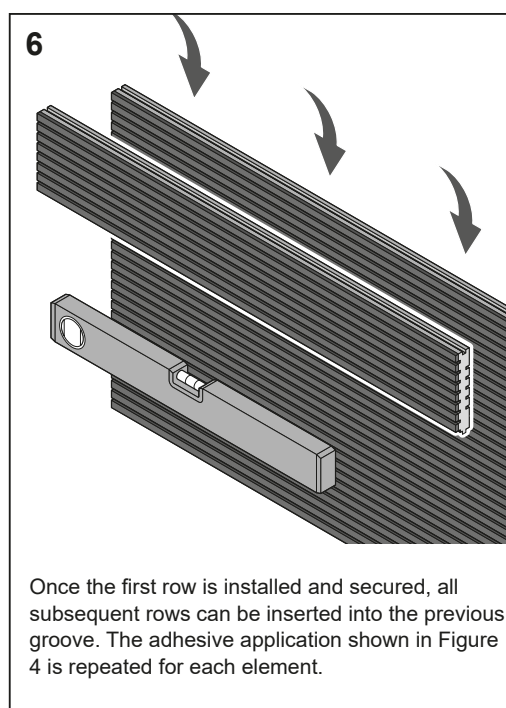
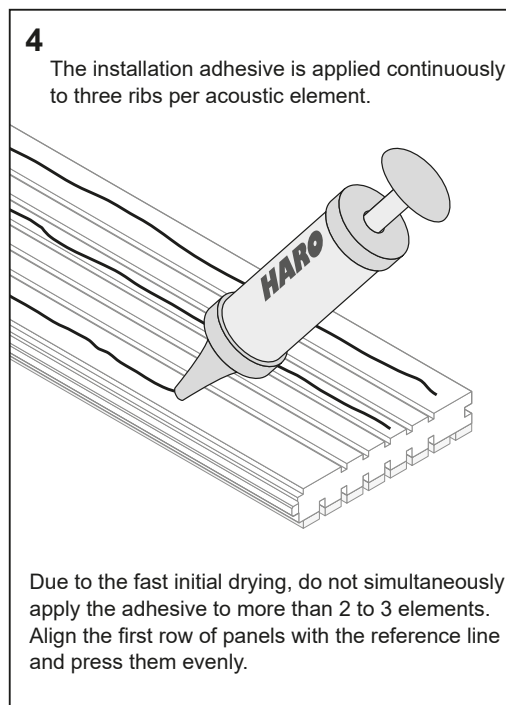
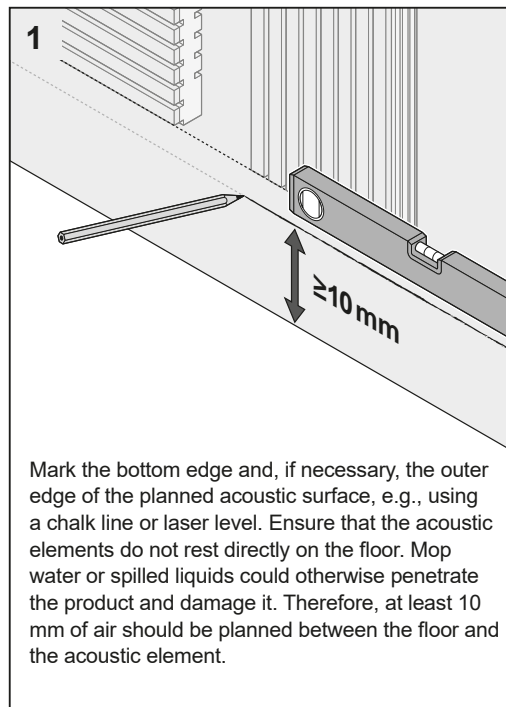
**3.3 Scratch Test:** The scratch test is simple. A knife, spatula, or screwdriver is used to scratch down the area's substrate to be treated. If the substrate adheres poorly and is unsuitable, surface chipping will indicate this.

**3.4 Adhesion Test with a Sample Piece:** Several sample pieces are fixed to various spots on the wall surface with HARO installation adhesive and pressed firmly. After the adhesive has hardened, try to remove the sample pieces. Suppose the sample pieces can be easily removed and sand and/or paint consistently adhere to the adhesive surface. In that case, the wall surface does not have permanent load-bearing capacity for HARO Interior Wall Elements.

**Construction panels (see recommended substrates) should be installed beforehand if the wall surface's load-bearing capacity is uncertain. The technical application department is happy to assist with any questions.**

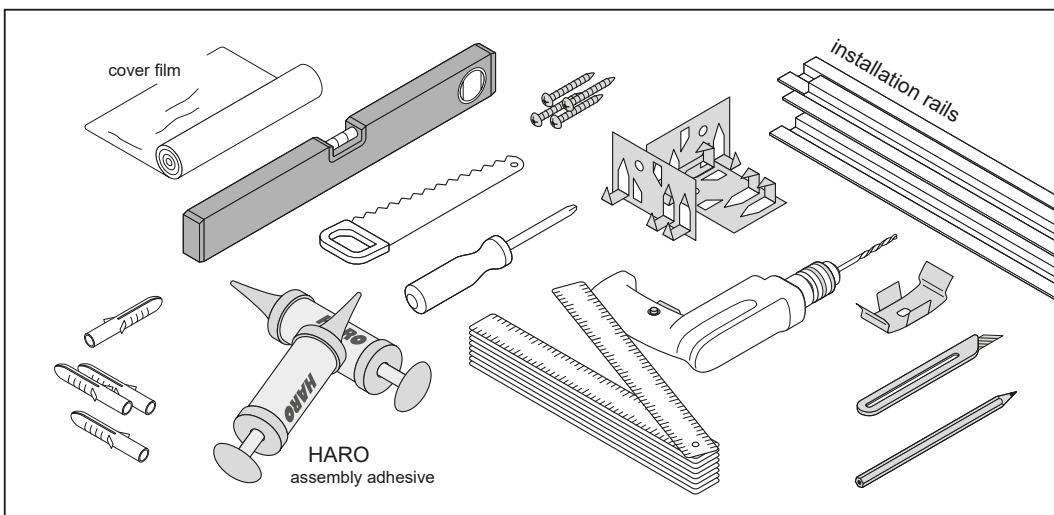


Only HARO assembly adhesive is approved for bonding the acoustic elements. Approximately one cartridge is required per m<sup>2</sup>.

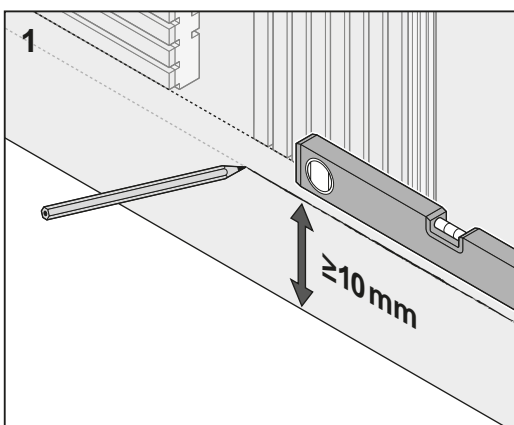


# B

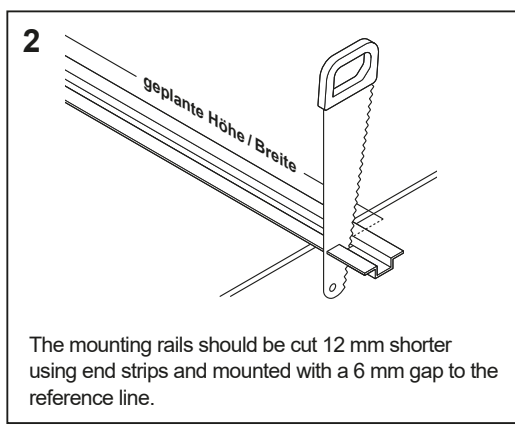
## RAIL INSTALLATION ON THE WALL



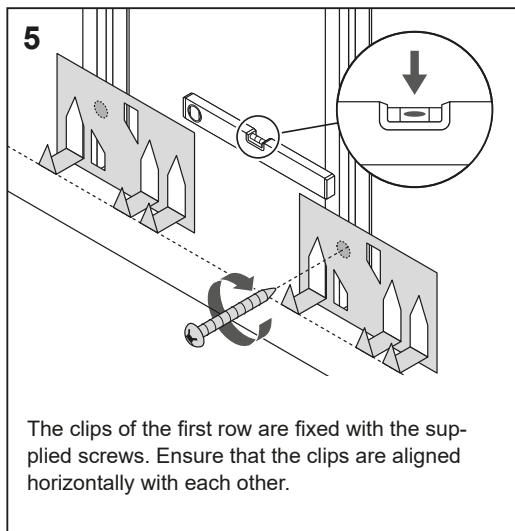
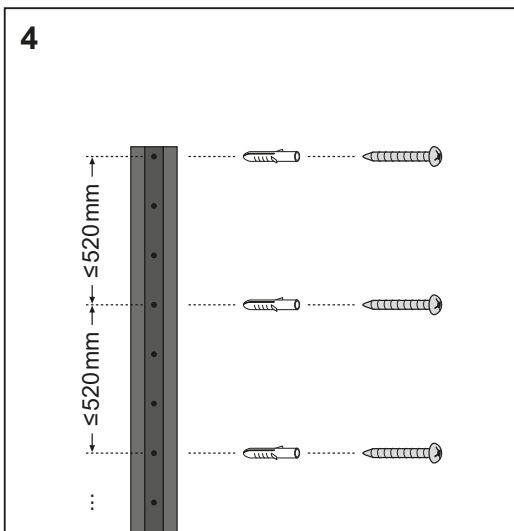
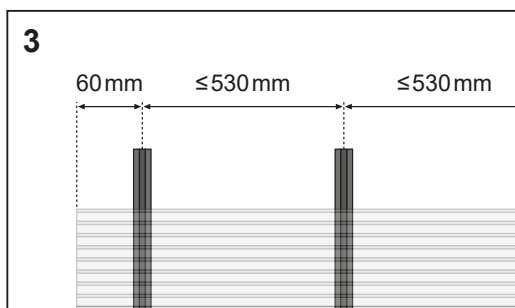
**Note:** A wooden substructure can also be used instead of mounting rails. In this case, use wood with a quality grade of at least S 10 according to EN 1912 and a cross-section of at least 48 x 24 mm. The mounting clips are then fixed with countersunk screws size 3 x 20 mm. The next procedure is analogous to the installation of the mounting rails. The end strips and end clips cannot be combined with the substructure.



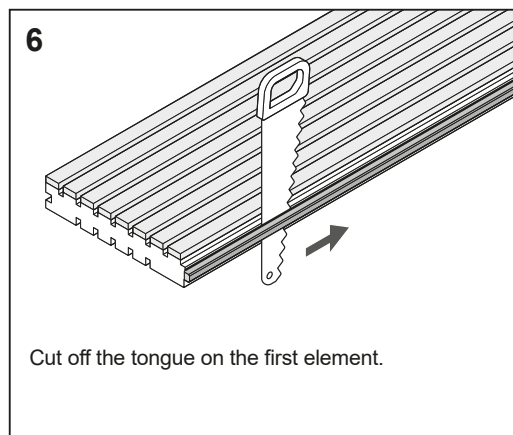
Mark the bottom edge and, if necessary, the outer edge of the planned acoustic surface, e.g., using a chalk line or laser level. Ensure that the acoustic elements do not rest directly on the floor. Mop water or spilled liquids could otherwise penetrate the product and damage it. Therefore, at least 10 mm of air should be planned between the floor and the acoustic element.



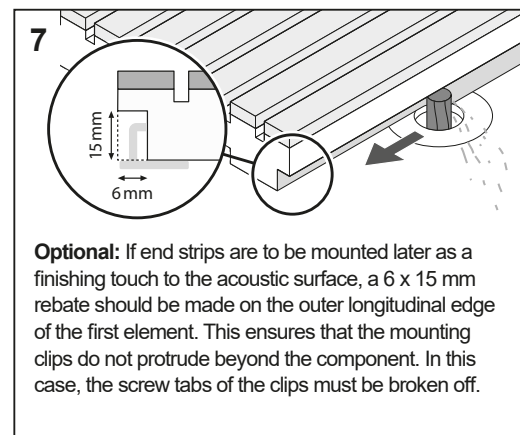
The mounting rails should be cut 12 mm shorter using end strips and mounted with a 6 mm gap to the reference line.



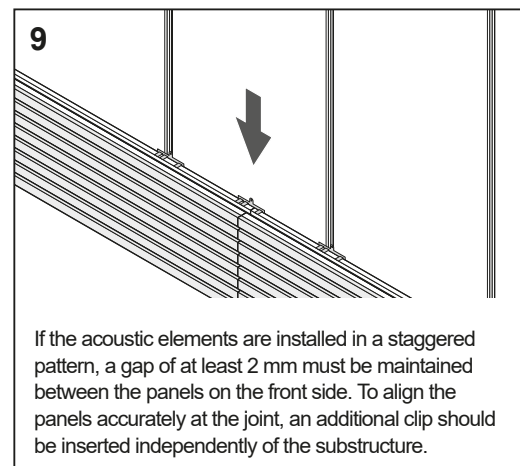
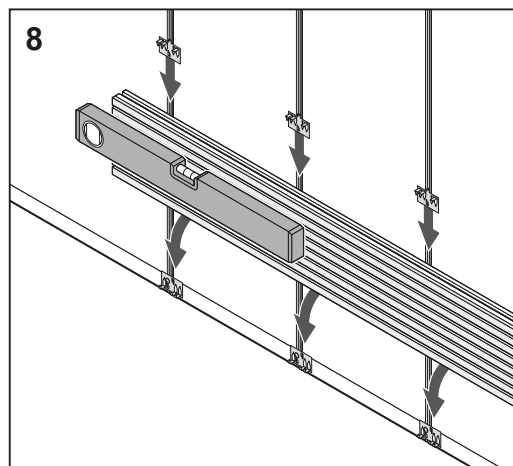
The clips of the first row are fixed with the supplied screws. Ensure that the clips are aligned horizontally with each other.



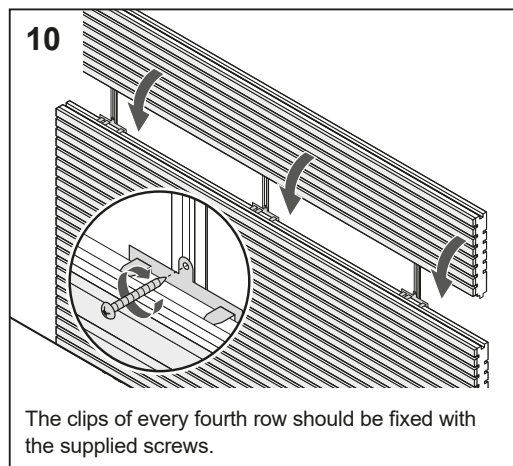
Cut off the tongue on the first element.



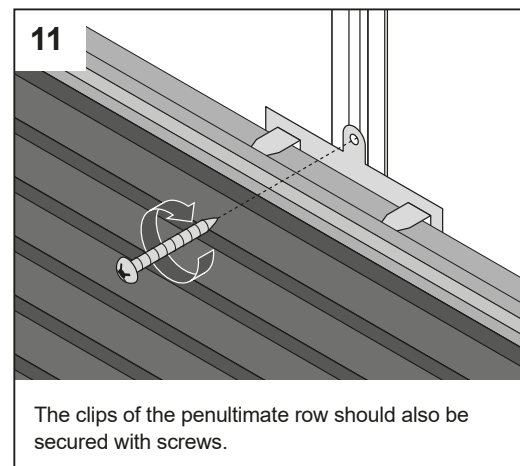
**Optional:** If end strips are to be mounted later as a finishing touch to the acoustic surface, a 6 x 15 mm rebate should be made on the outer longitudinal edge of the first element. This ensures that the mounting clips do not protrude beyond the component. In this case, the screw tabs of the clips must be broken off.



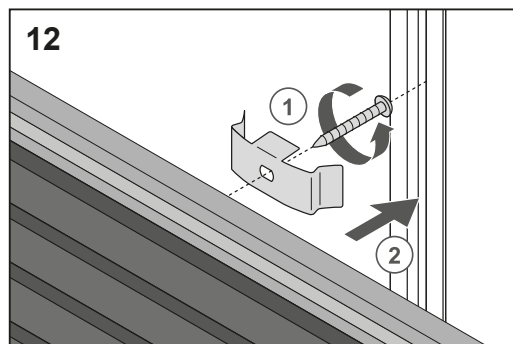
If the acoustic elements are installed in a staggered pattern, a gap of at least 2 mm must be maintained between the panels on the front side. To align the panels accurately at the joint, an additional clip should be inserted independently of the substructure.



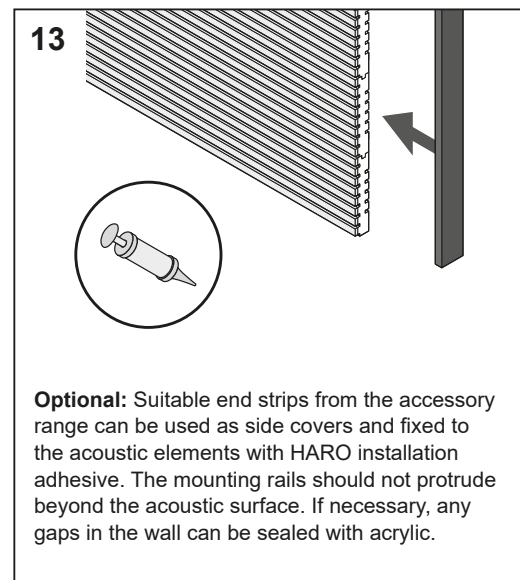
The clips of every fourth row should be fixed with the supplied screws.



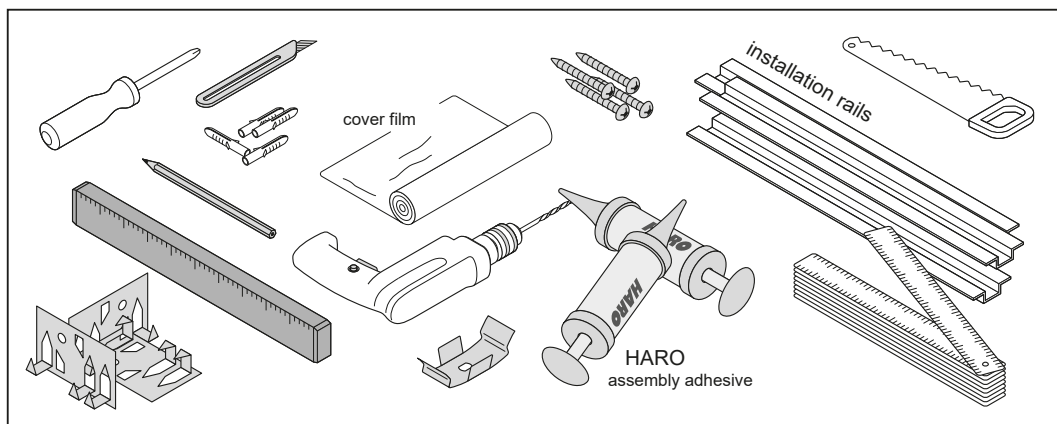
The clips of the penultimate row should also be secured with screws.



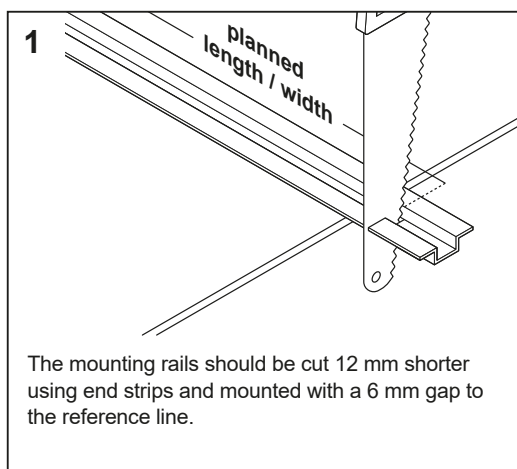
To fix the last panel, measure the distance for the end clips according to your substructure and screw the clips with wood screws size 4 x 20 mm in the center on the rear-most rib. Do not overtighten the screws! The panel is then clipped into the metal rail.



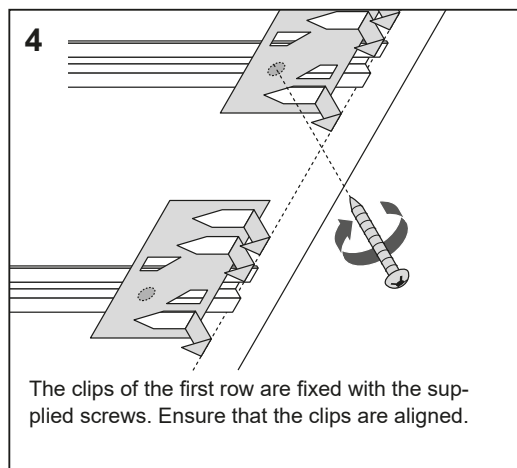
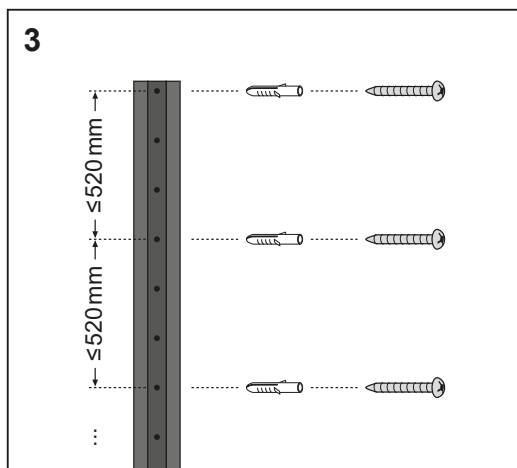
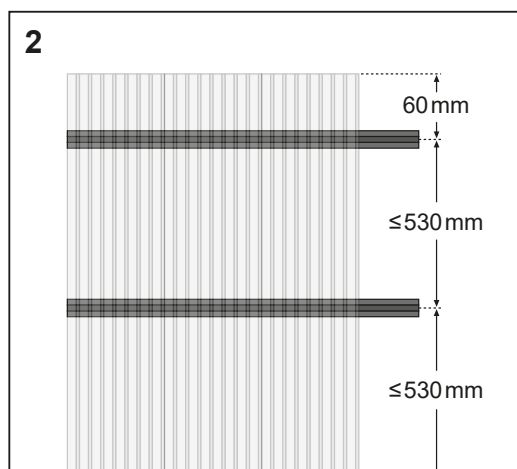
**Optional:** Suitable end strips from the accessory range can be used as side covers and fixed to the acoustic elements with HARO installation adhesive. The mounting rails should not protrude beyond the acoustic surface. If necessary, any gaps in the wall can be sealed with acrylic.



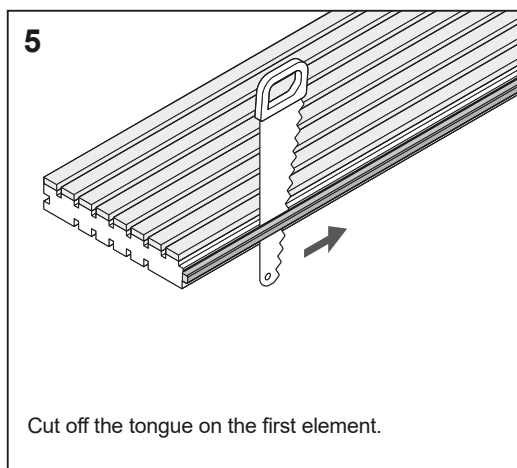
**Caution:** The user must check the ceiling before installation for sufficient load-bearing capacity. Ceiling installation is only permissible with metal mounting rails and mounting clips (both available separately)!



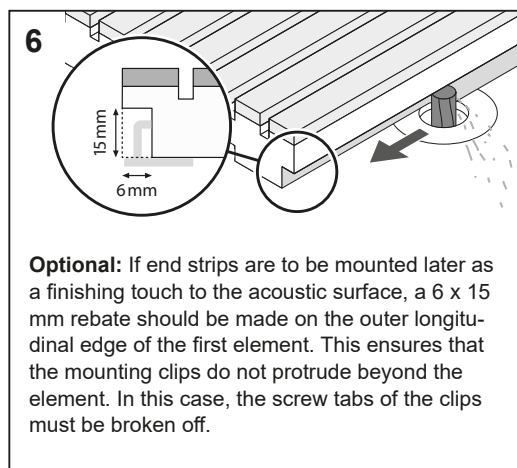
The mounting rails should be cut 12 mm shorter using end strips and mounted with a 6 mm gap to the reference line.



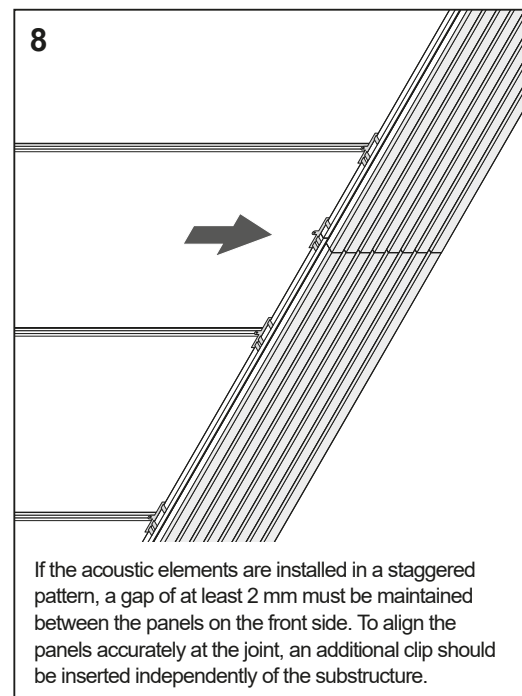
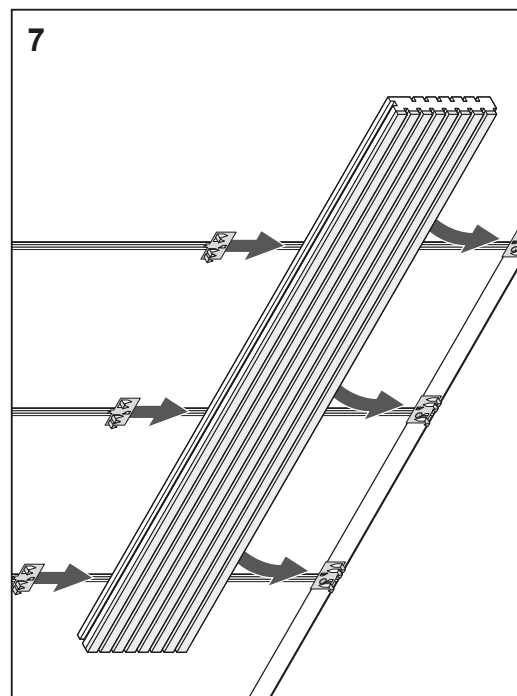
The clips of the first row are fixed with the supplied screws. Ensure that the clips are aligned.



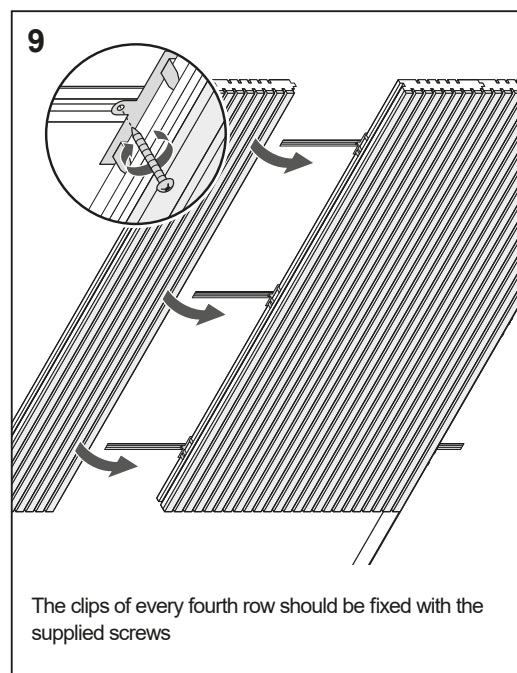
Cut off the tongue on the first element.



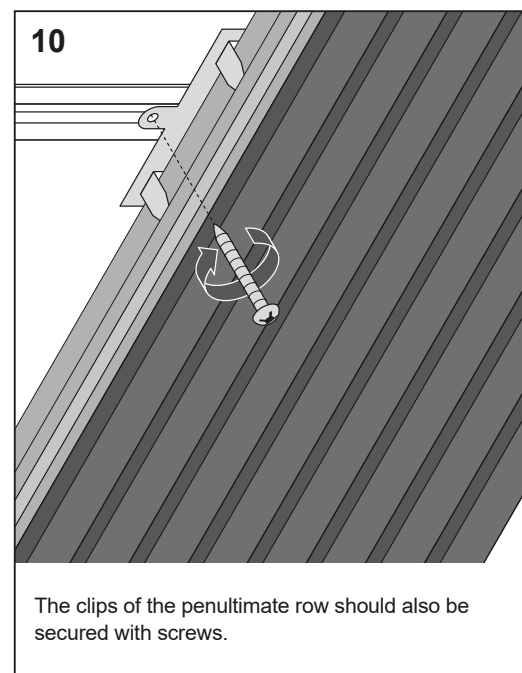
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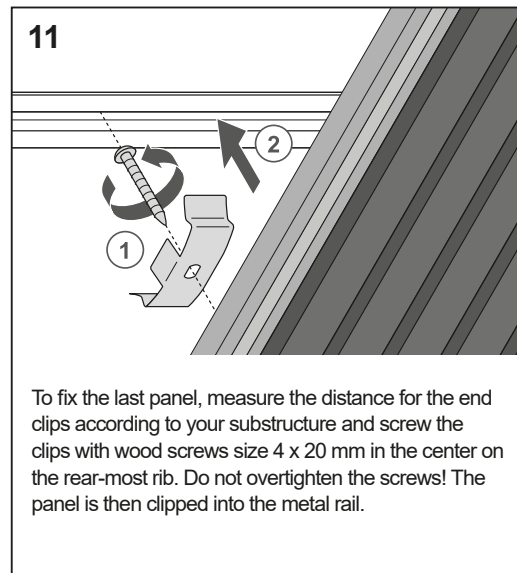
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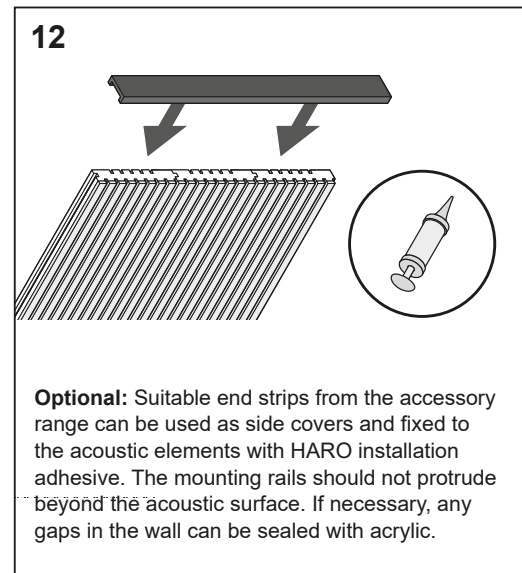
The clips of every fourth row should be fixed with the supplied screws



The clips of the penultimate row should also be secured with screws.

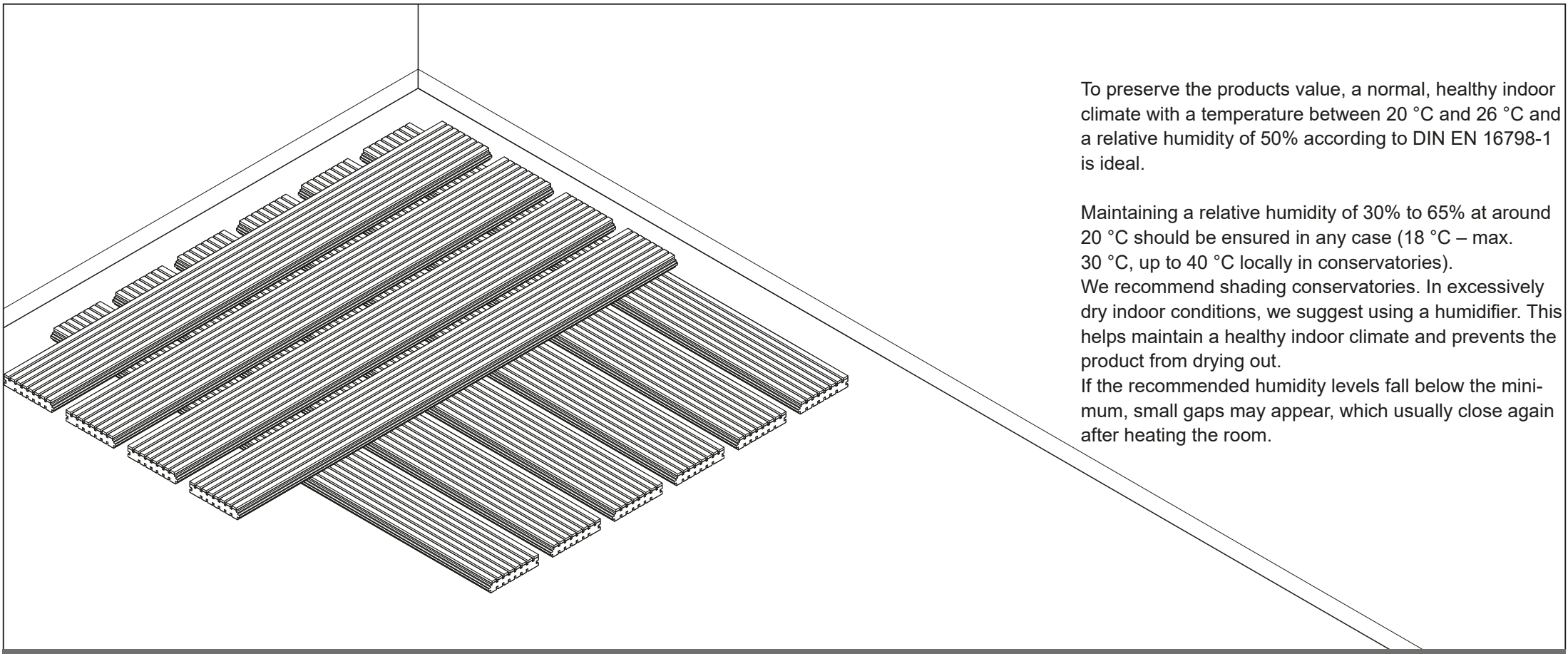


To fix the last panel, measure the distance for the end clips according to your substructure and screw the clips with wood screws size 4 x 20 mm in the center on the rear-most rib. Do not overtighten the screws! The panel is then clipped into the metal rail.



**Optional:** Suitable end strips from the accessory range can be used as side covers and fixed to the acoustic elements with HARO installation adhesive. The mounting rails should not protrude beyond the acoustic surface. If necessary, any gaps in the wall can be sealed with acrylic.

# Climatic Conditions



To preserve the products value, a normal, healthy indoor climate with a temperature between 20 °C and 26 °C and a relative humidity of 50% according to DIN EN 16798-1 is ideal.

Maintaining a relative humidity of 30% to 65% at around 20 °C should be ensured in any case (18 °C – max. 30 °C, up to 40 °C locally in conservatories).

We recommend shading conservatories. In excessively dry indoor conditions, we suggest using a humidifier. This helps maintain a healthy indoor climate and prevents the product from drying out.

If the recommended humidity levels fall below the minimum, small gaps may appear, which usually close again after heating the room.

## Care and Cleaning

Generally, cleaning acoustic surfaces dry with a mop, hair broom, or vacuum cleaner is sufficient. However, we recommend damp cleaning according to the degree of soiling with cleaner diluted in the mopping water. The surface should only be cleaned with a damp cloth. Prolonged exposure to aggressive solvents such as acetone and unsuitable disinfectants can lead to surface changes. Such substances must be immediately removed from the acoustic surface and not used for cleaning.

Please note: Do not use soap, scouring agents, steel wool, aggressive solvents, wax, or polish for cleaning and care. Steam cleaners are not suitable for cleaning acoustic surfaces.

## Provisional Notice

The information contained in this installation manual reflects the current status as of February 2025.

We accept no liability for printing errors, standard-related inaccuracies, or unintentional mistakes. Ongoing (product) development may lead to changes in the instructions provided.

The content of this document does not constitute a legally binding basis.

If you have any questions, please contact us at [info@akustik-plus.com](mailto:info@akustik-plus.com).

## Environment and Disposal

When using adhesives, choose low-emission products. It is best to proceed in reverse order to installation for dismantling the acoustic elements.

Wood cuttings (without attachment of foreign materials such as adhesives, etc.) should be disposed of as wood waste under AVV-No. 17 02 01 (AVV-No.: according to the Waste Catalogue Regulation).

Dismantled parts with adhesive residues (attachments) should be disposed of as mixed construction and demolition waste (AVV-No.: 17 09 04) (if non-hazardous adhesive was used).

Local regulations must be observed.