

)) Acoustic-Lightboard®

)) Acoustic-CompactBoard®

Installation Instructions



VIBF

architectural systems

)) **Richter**®
akustik & design

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1 Handling-information

1.1 Transport, storage and installation

Acoustic-Lightboard® and Acoustic-Compact® are classified as a "non hazardous" material and should be **stored** and **installed** under normal climatic conditions (approx. 18-25°C [64-77°F] and 40-65% relative humidity). Storage and installation outside of this climate range can cause damage or variations of the material. When installing Acoustic-Lightboard® and Acoustic-Compact® maintain 3 mm (1/8") between panels, an adequate substructure and fixation to allow for expansion and contraction. Always transport and store panels flat and not upright or on end. Acoustic-Lightboard® and Acoustic-Compact® panels should not be covered with plastic or anything similar as it could cause condensation. A pallet containing Acoustic-Lightboard® and Acoustic-Compact® panels can be covered with a clean drop cloth or equivalent as long as it is porous enough to allow continuous aeration and will not harm the finish on the surface of the panels. Acoustic-Lightboard® and Acoustic-Compact® are designed and manufactured using natural and engineered wood products. Although dimensionally stable it is still acceptable to expansion and contraction when exposed to environmental variables. Installation only after proper acclimatization of the panels on site 24 to 72 hours prior to installation. The site must be free of wet and/or dusty trades and the climate conditions stabilized to normal operational levels. In case of incorrect transport or storage Richter akustik & design does not assume any liability.

1.2 Maintenance and Cleaning

1.2.1 Basic information

Acoustic-Lightboard® and Acoustic-Compact® finishes of High Pressure Laminate (HPL) and natural wood veneer are easily maintained. The wood veneer surfaces are finished at the factory with a catalyzed lacquer. To preserve the integrity of the finished surface it should be maintained like a piece of furniture. A light dusting and a gentle application of furniture polish will keep the wood veneer surfaces looking like new. When using a furniture polish apply it to your dusting cloth first and then gently wipe the surfaces. For High Pressure Laminate no maintenance is required.

1.2.2 Cleaning

Acoustic-Lightboard® and Acoustic-Compact® products may be cleaned with a damp cloth and mild detergent as required. If in doubt about the suitability of a particular cleaner or detergent, check with its manufacturer. This applies to both the wood veneer and the high pressure laminate finishes. Always test your cleaning agent and method of application on an inconspicuous area to determine if any harm will be done to the Acoustic-Lightboard® or Acoustic-Compact® finished surfaces. Always follow the manufacturer's recommendations and cautions for any cleaners. Use of abrasive cleaners, powders, scouring pads, steel wool, sandpaper, etc., can damage the finish of the surface and are not recommended. Acid or alkaline-based cleaners, compounds, etc., will mar, etch, corrode, and permanently discolor the finished surface. Never use these materials on Acoustic-Lightboard® and Acoustic-Compact® products nor allow bottles, rags, etc., contaminated with these chemicals to contact the surface. Accidental spills or splatters from these harsh materials should be wiped off immediately, and the area cleaned thoroughly with a damp cloth.

2 Panel assembly

Adequate ventilation behind the panels is required. The recommended distances are 1.) walls inside min. 30 mm [1.18"] 2.) external walls and chimneys 50 mm [1.97"].

2.1 Installations using the tongue and groove method

This assembly variation bases on tongues which are fixed on the suspension with screws. In combination with a concealed edge milling the tongues are hidden. If the panels are assembled in a vertically their weight must be supported behind the panels. One example is with wall cleats.

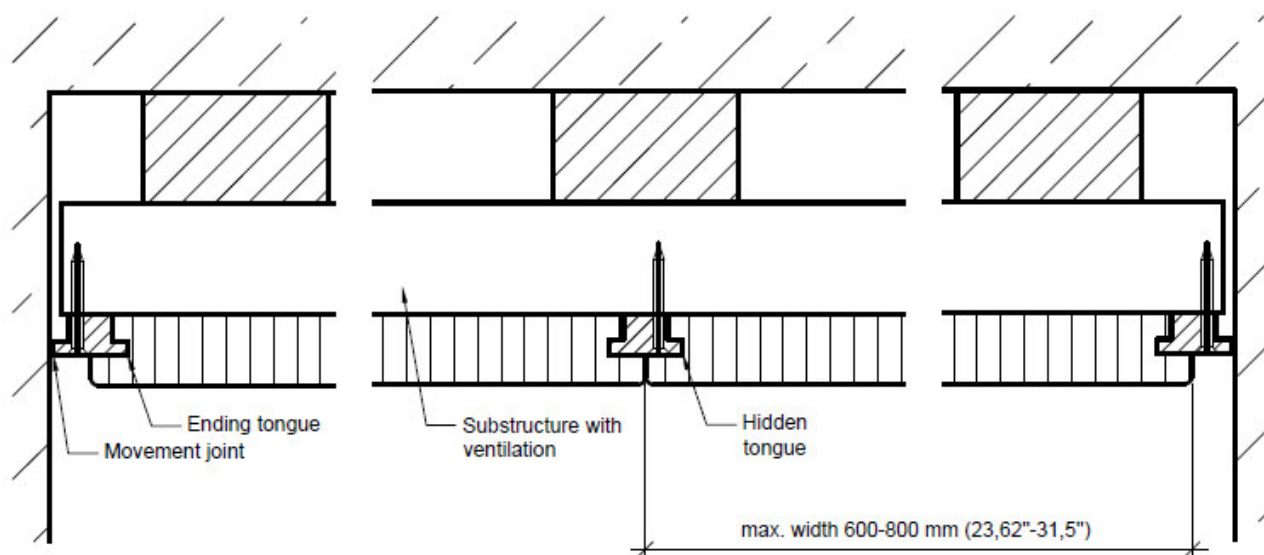
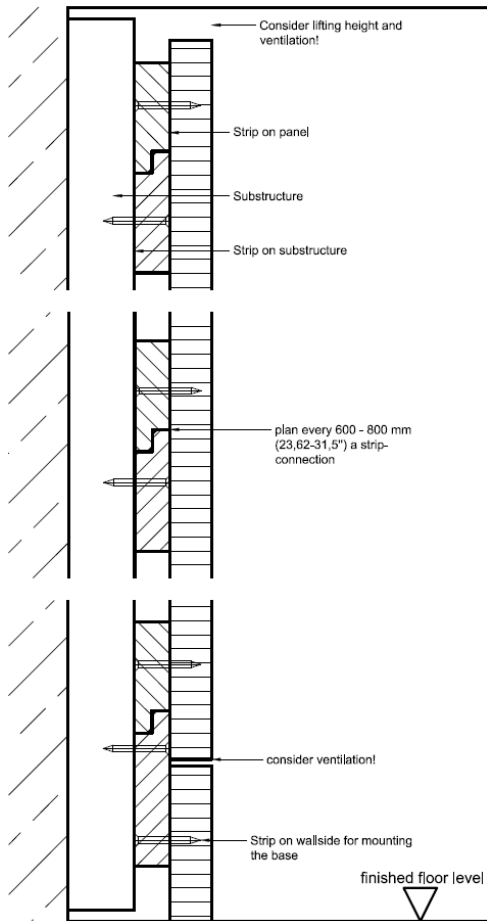


Illustration 1 Horizontal cut of a panel installation with tongue and groove

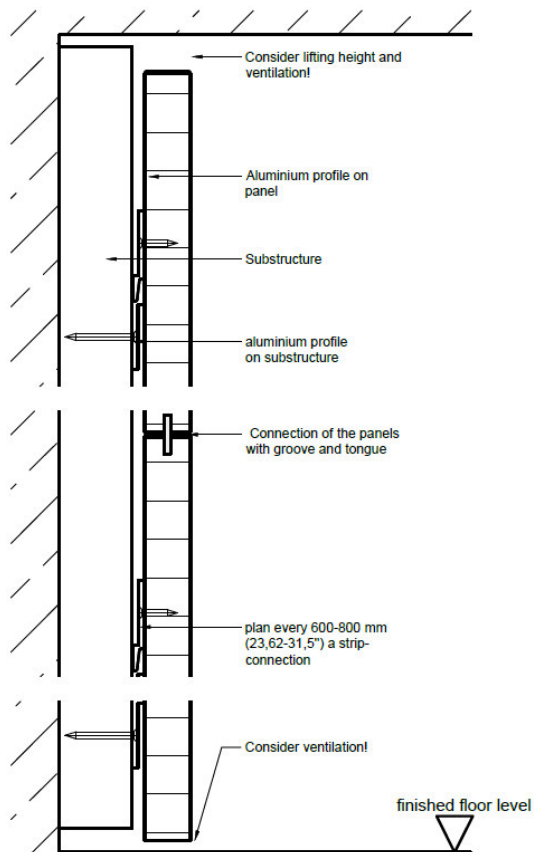
2.2 Panel assembly with notched or miter-strips



The assembly with notched or miter-strips is with self-made strips of made of solid timber products, or plywood.
At the ceiling joint please allow an appropriate lifting height for removal of the wall panels.

Illustration 2 Vertical cut of an installation with notched or miter-strips

2.3 Panel assembly with aluminum Z-clips

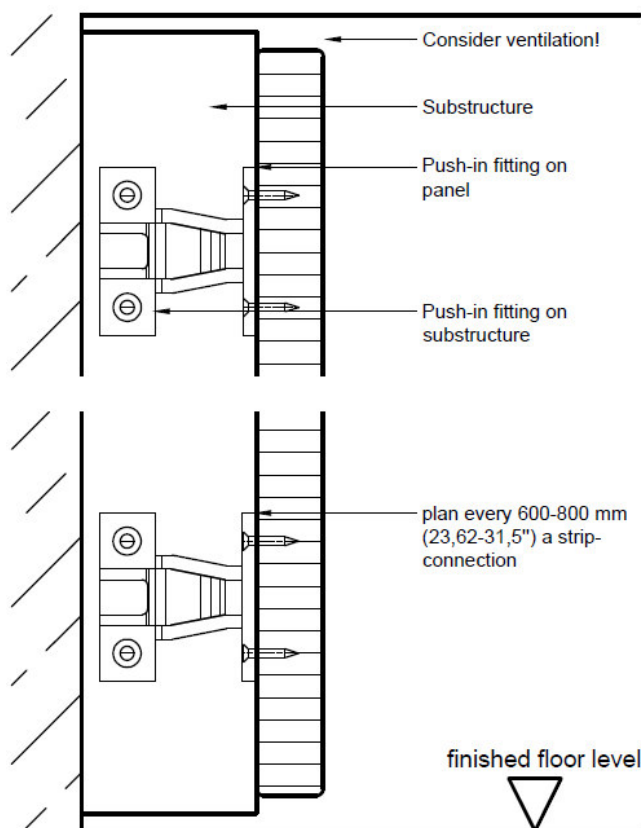


This assembly is similar to assembly with notched or miter-strips.

At the ceiling joint please allow an appropriate lifting height for removal of the wall panels

Illustration 3 Vertical cut of an installation with aluminum Z-clips

2.4 Panel assembly with push-in fittings



These fittings are available in many variations. It is possible to push the panels vertically or horizontally for a fixed position.

One advantage of the horizontal installations using a push-in fitting is that the distance between the top of the panel and the ceiling joint wall can be reduced. But it is important to keep a distance of min. 10 mm (0.4") for the vertical ventilation.

To ensure a secured connection between the fittings and the panels, screw the push-in fittings to the solid internal perimeter frame of the panels.

Please follow the manufacturer's guidelines for the correct number and placement of the push-in fittings.

Illustration 4 Vertical cut of an installation using push-in fittings

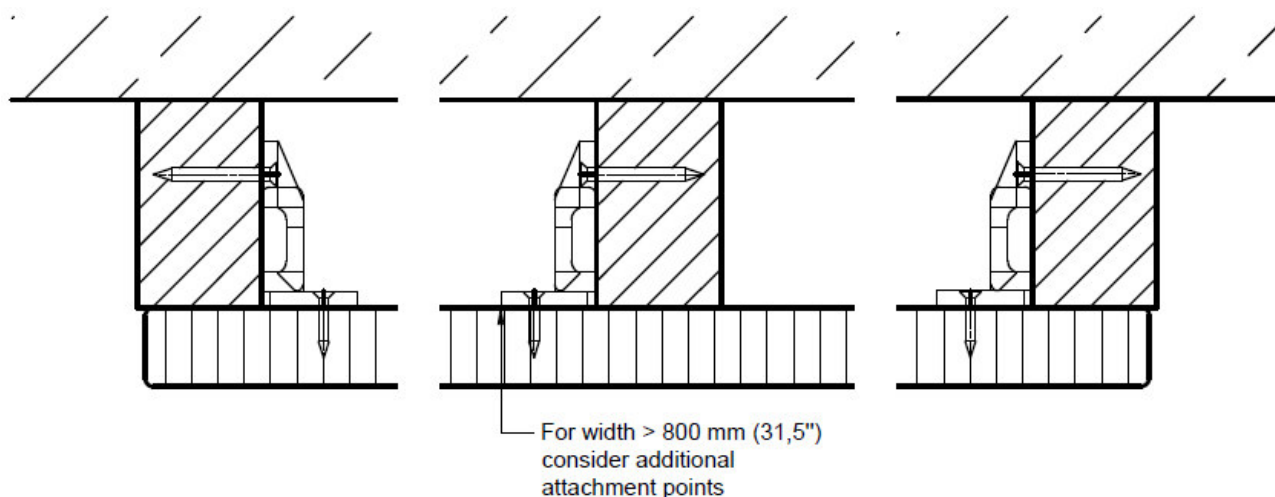


Illustration 5 Horizontal cut of an installation using push-in fittings

2.5 Assembly with panel claws

The assembly of Acoustic-Lightboard and CompactBoard is possible with panel claws. The edges can be machined to provide the required grooves for using the claws.

If the panels are assembled in a vertically their weight must be supported behind the panels. One example is with wall cleats.

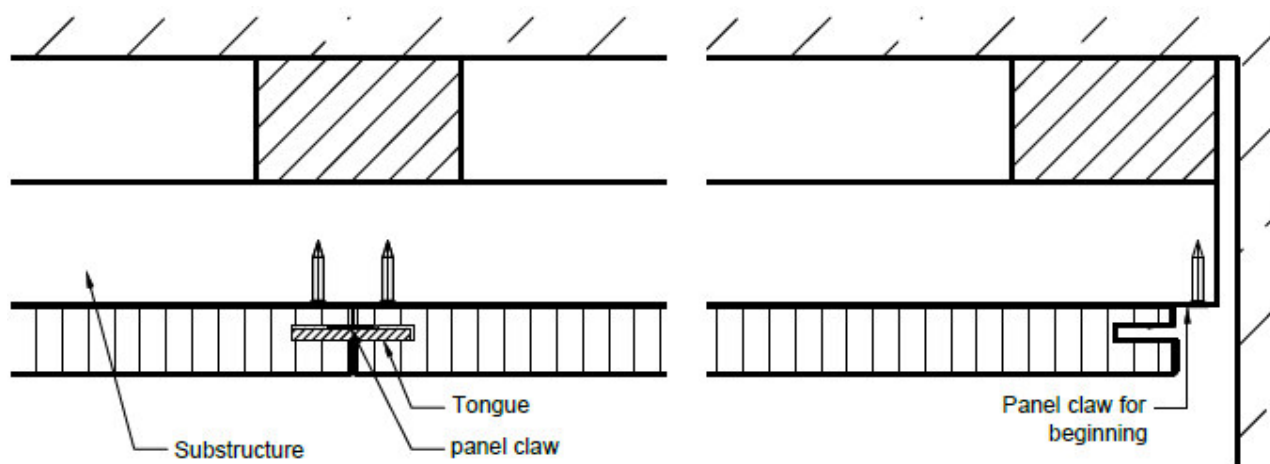


Illustration 6 Horizontal cut of an installation with panel claws

3 Corner Connections

For a continuous assembly of Acoustic-LightBoard and CompactBoard here are some possibilities for installations.

3.1 Variations for external corners

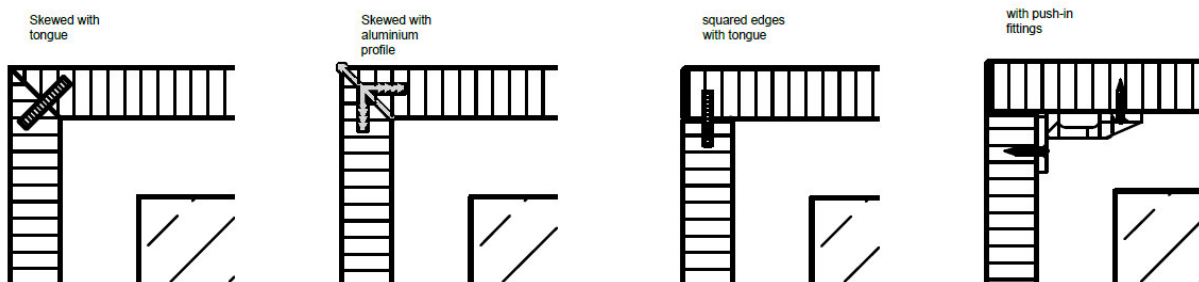


Illustration 7 details of diverse variations for external corners

3.2 Variations for internal corners

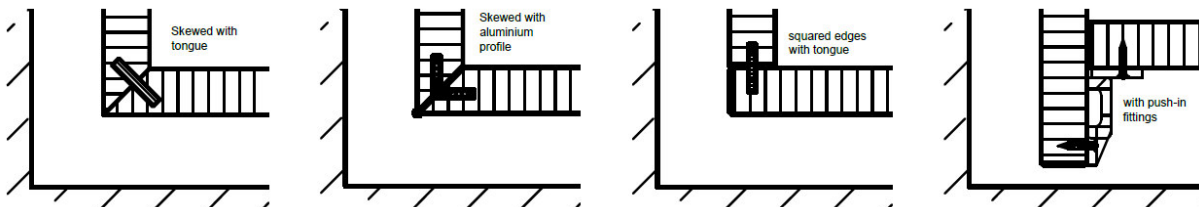


Illustration 8 details of diverse variations for internal corners

4 Panel conclusions

The execution of the panel conclusion depends on the favoured general view of the cladding. Alternative to a stub execution there are possibilities for accented conclusions.

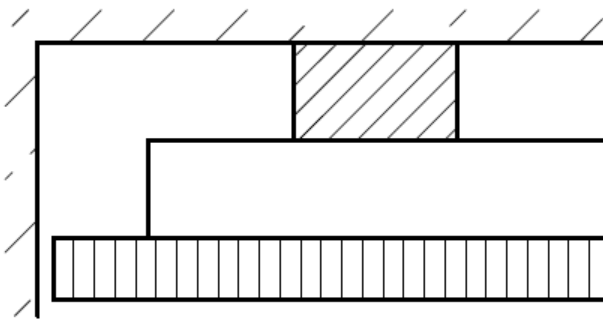


Illustration 9 stub panel conclusion, e.g. for wall claddings

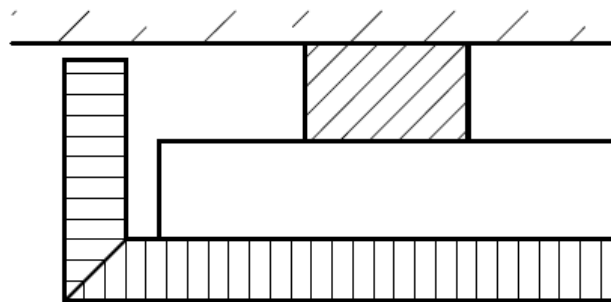


Illustration 10 angeled panel, e.g. for partial areas or cassette claddings

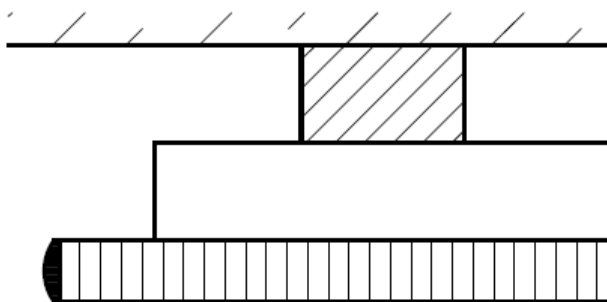


Illustration 11 self-adhesive end profile, e.g. for top lipped areas

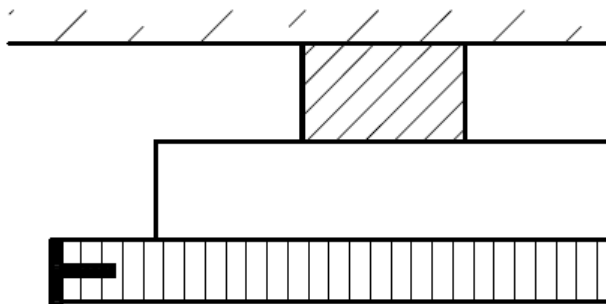


Illustration 12 end profile with extrusion, e.g. for top lipped areas