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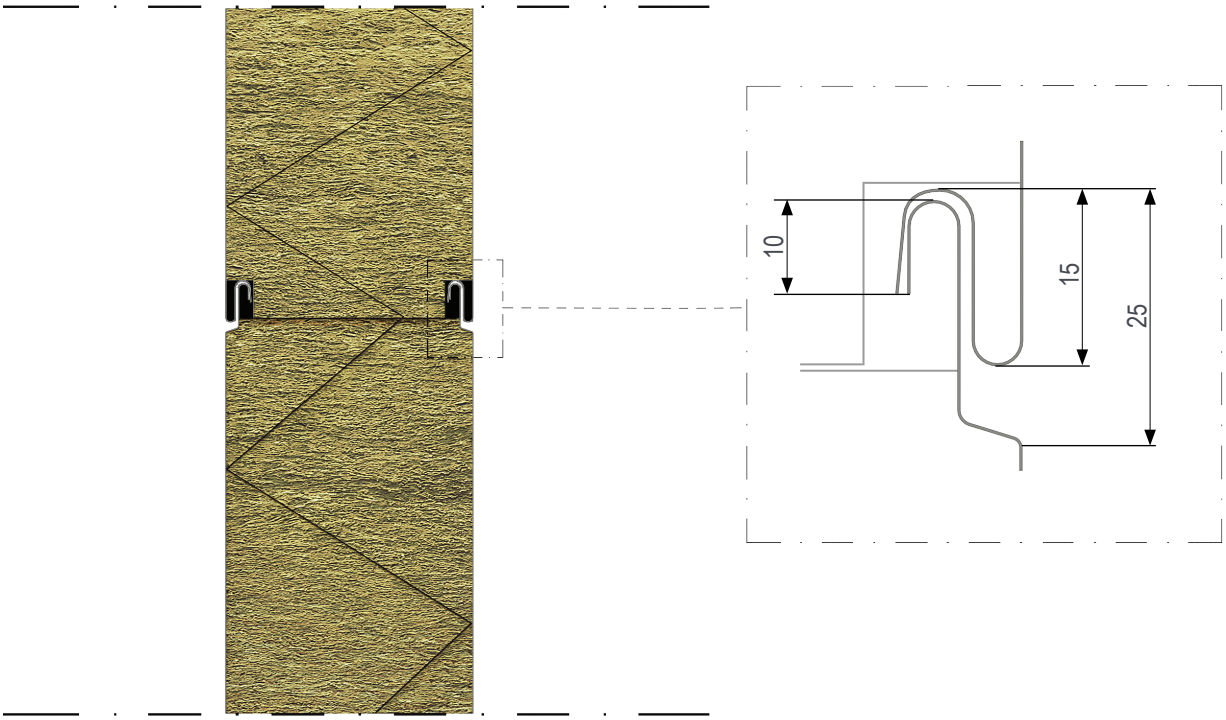
INSTALLATION INSTRUCTIONS



INSTALLATION

Fasteners, strips, profiles, seals, and lifting tools (tongue-and-groove and vacuum) are all part of ensuring that the panels are installed in compliance with generally accepted requirements. Proper installation is necessary if the panel wall is to meet tightness, thermal insulation and appearance requirements.

You can install Areco sandwich panels either horizontally or vertically. The outer walls have a factory-fitted TPE (Thermoplastic Elastomer) sealing strip on the groove side. If necessary, tightness can be improved by sealing the joint/seam (jointing compound).



CUTTING AND DRILLING PANELS

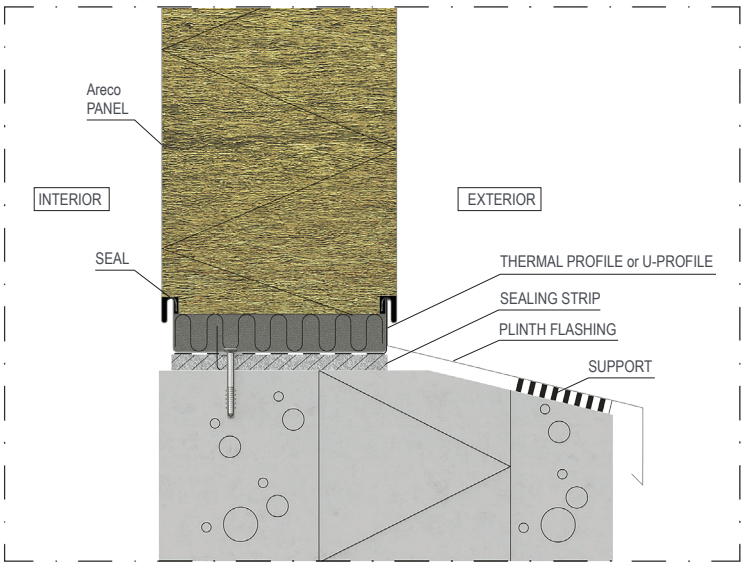
You may need to cut holes or adjust the panels during installation. Bear in mind that large openings may impair the panels' load-bearing capacity and affect their fire properties – always follow the hole layouts shown on the drawings.

For smaller holes and curved cuts, we recommend a jigsaw. For longer, straight cuts, a circular saw is the best option. Do not use an angle grinder – it damages the surface coating and can cause rust.

After cutting: Brush all metal shavings off the surface. Loose debris can cause discolouration and, in the worst case, damage the panels.

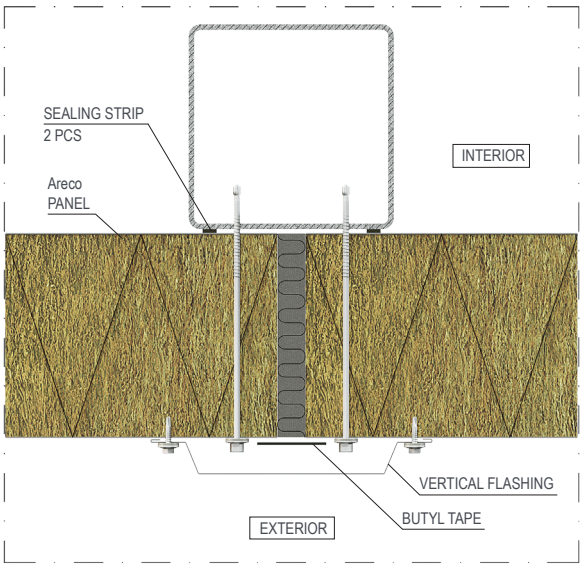
HORIZONTAL INSTALLATION

Carry out the installation according to the enclosed drawings. It is best to start at a corner so that the tongue side faces upward. Before installation, check that the panel is straight. First install the base strip on the plinth and apply the sealing strip to the column.



GENERAL INSTRUCTIONS

THE GAP BETWEEN THE THERMAL PROFILE (or U-PROFILE)/BASE RAIL AND THE PANEL IS SEALED WITH WOOL. DISTANCE OF THE PANEL FROM THE CONCRETE PLINTH ~15 MM. INDIVIDUAL DETAILS REGARDING STRUCTURES AND INCLINES ACCORDING TO THE DESIGNER.



GENERAL INSTRUCTIONS

GAP BETWEEN PANELS ~20 MM, CLOSED WITH A STRIP OF WOOL.
MINIMUM DISTANCE OF THE FASTENING TO THE EDGE OF THE PANEL 30 MM. MINIMUM SUPPORT WIDTH FOR THE PANEL 50 MM. THE SUPPORT SURFACE IS SEALED. THE WOOL JOINT IS COVERED ON THE OUTSIDE WITH BUTYL TAPE > 60 MM.

Attach a base rail to the base strip.

Leave a gap of about 7 mm between the base rail and the column where the panel's groove side will be installed.

Once the base rail has been checked for straightness, fix it to the plinth (using, for example, spike anchors for a concrete plinth).

Place insulation wool on the base rail and install a skirting strip on the rail edge (see detail drawing). The recommended overlap of the strips is about 100 mm.

Then position the top panel, with which the installation starts. Check that the panel is straight, then fasten it to the column according to the installation instructions. Once you have anchored the first panel, continue installing the remaining panels according to the installation drawings. Leave a gap of about 20–40 mm in the vertical joints between the panels, according to the detail drawings. Fill the gap with soft wool.

Apply weather-resistant, self-adhesive sealing tape to the joint. If necessary, you can also seal the horizontal joint.

PARTITION WALLS AND VERTICAL INSTALLATION

The partition walls can be installed horizontally or vertically. Always follow the detail drawings and installation instructions for Areco sandwich panels. We recommend the use of a vacuum lifter (suction cup lifter) when lifting long partition wall panels.

FIXING / ANCHORING

The panels can be secured using fixing screws or similar fasteners. The most common way of securing a panel is to screw straight through into the framework. Fasteners must be at least 30 mm from the edge.

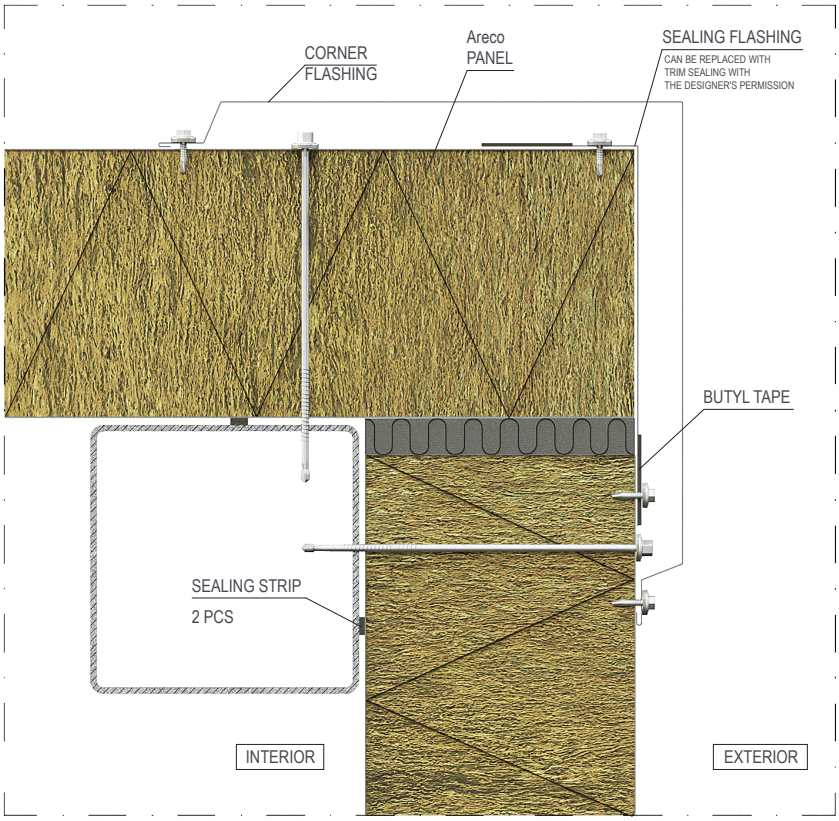
The width of the support surface must be taken into account when securing panels. This must protrude at least 50 mm from the end of the panel.

Select the fasteners based on the thickness and condition of the support material. They must be designed to meet the requirements of the building, such as load, fire protection etc.

For the correct tightening torques for fasteners in the panels, please refer to the supplier's instructions.

STRIPS AND FLASHINGS

Always cover panel joints and corners with strips. The recommended overlap is approx. 100 mm. Areco can provide standard and special strips for all objects. You can find more information at www.arecoprofiles.se

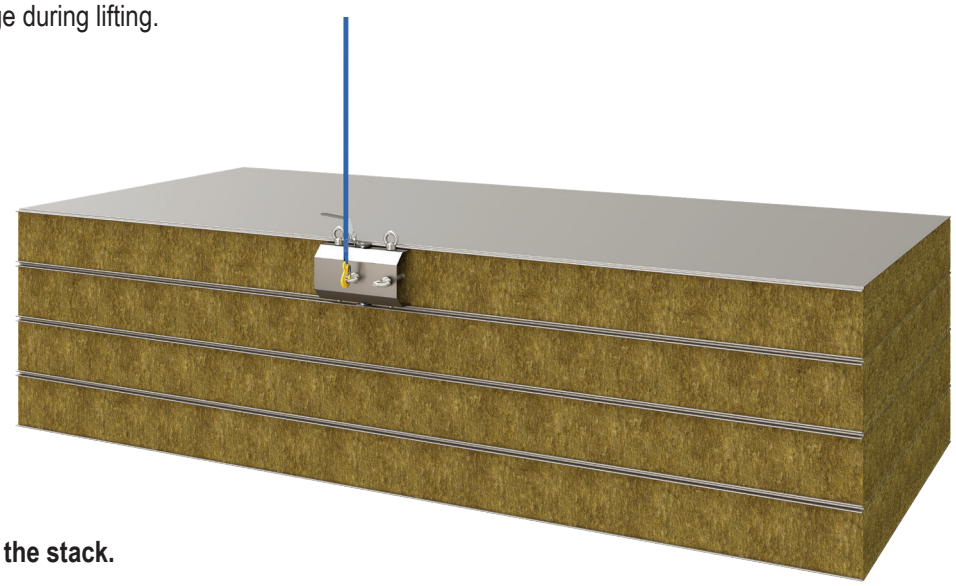


GENERAL INSTRUCTIONS

GAP BETWEEN PANELS ~20 MM, CLOSED WITH A STRIP OF WOOL.
MINIMUM DISTANCE OF THE FASTENING TO THE EDGE OF THE PANEL 30 MM. MINIMUM SUPPORT WIDTH FOR THE PANEL 50 MM. THE SUPPORT SURFACE IS SEALED. THE WOOL JOINT IS COVERED ON THE OUTSIDE WITH SEALING FLASHING.

1. Place the edges of the lifting tool under the tongue sides of the Areco sandwich panel and turn the handle to the locked position. Press the locking pin down into the insulation to prevent the lifting tool from sliding sideways.

2. Check that the lifting tool is correctly locked on both sides. Ensure that the lifting tool is properly secure in the tongue side. To avoid scratching the surface of the panel underneath take care when starting to lift. Protect the groove side to avoid damage during lifting.



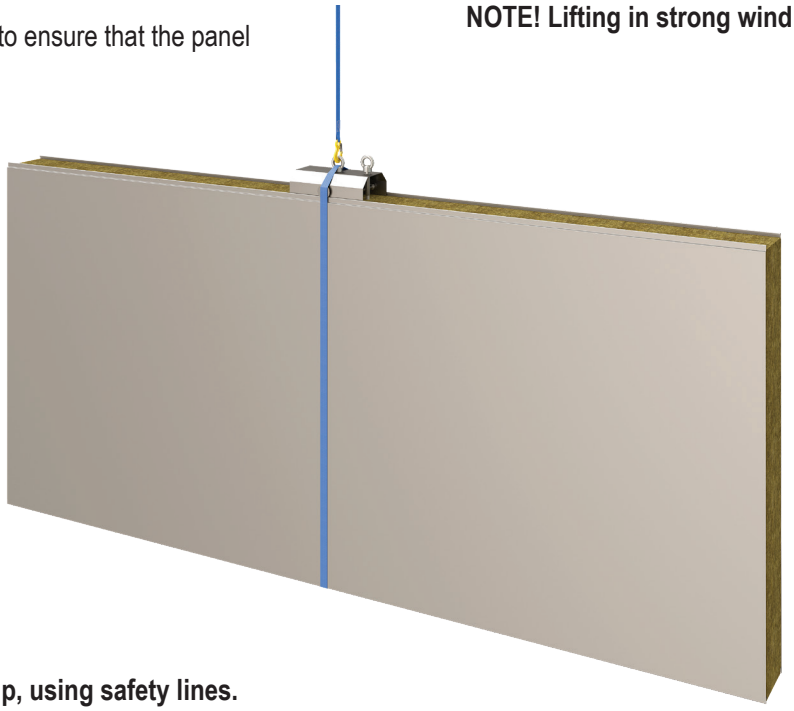
Lift the panel from the stack.

Lift with care and avoid sudden movements. Ensure that there are no people or objects nearby that could be harmed in case the panel falls.

Do not subject the lifting tool to any external load that could cause it to come loose.

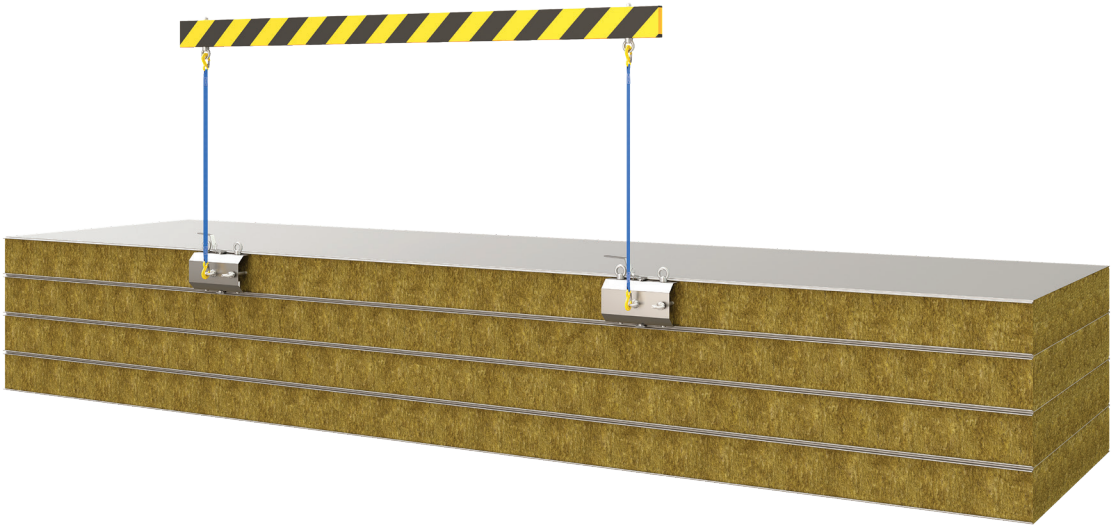
NOTE! Lifting in strong wind (> 10 m/s) is prohibited!

3. Use safety lines to ensure that the panel is secure.

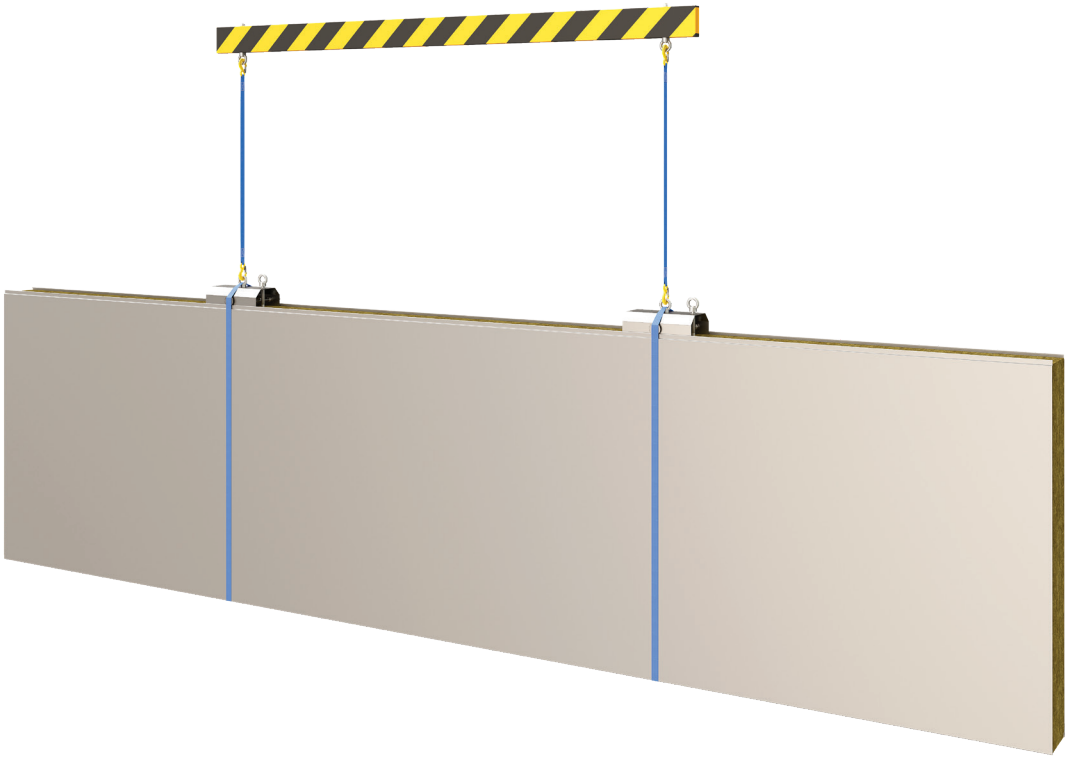


Lifting the panel up, using safety lines.

Lifting long panels (> 4.0 m) using two tongue-and-groove lifting tools.



Lift long panels using two tongue-and-groove lifting tools and a lifting beam.



Both of the lifting tools must have safety lines.

4. The safety lines can be detached and removed just before the panel is lowered to its installation site.

5. Once the panel is in place and secured to the framework, the lifting tool can be removed.

THE FOLLOWING POINTS MUST BE FOLLOWED WHEN LIFTING PANELS:

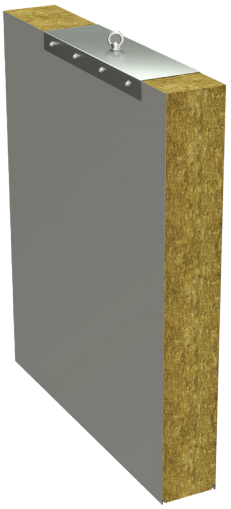
1. Only use safety lines that can be tensioned or tightened.
2. Absolutely no personnel are permitted underneath the load during lifting operations.
3. Lifting in strong wind, i.e. above 10 m/s, is not permitted.
4. Always follow the safety instructions that apply to the construction site.

Tongue-and-groove lifting tool



THINGS TO CONSIDER WHEN LIFTING CUT PANELS:

Lifting tool for cut panels



1. The lifting tool may only be used with ASP panels!
2. The panel lifting tool is designed to perform about 15 lifts per tongue-and-groove lift. The same hole can be drilled a maximum of three times. New holes can be drilled but they may not be closer than 10 mm to the previous holes, and the distance to the outer edge of the lifting tool must be at least 15 mm. The outermost holes must not be positioned more than 100 mm from the edge of the lifting tool.
3. Use at least four screws to secure the panel.
4. Screws or fasteners must have a minimum diameter of 5.5 mm.
5. The maximum lifting angle for two lifting tools is 60 degrees.



LIFTING LIMIT FOR TONGUE-AND-GROOVE LIFTS:
When using two lifting tools: The maximum lifting angle is 60 degrees and the maximum weight is 550 kg. When using one lifting tool: The maximum weight is 400 kg.

LIFTING LIMIT FOR CUT PANELS:
When using two lifting tools: The maximum lifting angle is 60 degrees and the maximum weight is 500 kg. When using one lifting tool: The maximum weight is 350 kg.



Always read the operating instructions carefully before using the lifting tool.
Always use safety lines when lifting.
Absolutely no personnel are permitted underneath the load during lifting operations under any circumstances.
Always ensure that the construction site's safety instructions are followed.

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We offer a broad range of fixing and sealing products specifically designed for the installation of sandwich panels. These products ensure a strong, weather-resistant and long-lasting structure.

Our range of accessories for sandwich panels guarantees a stable, energy-efficient building solution, optimised for both industrial and commercial projects.

FIXING AND INSTALLATION

- **Sandwich panel screws** – Self-tapping screws designed for mounting sandwich panels of various thicknesses.
- **Insulation screws** – Effective screws for fixing through insulated materials and panels.
- **Fixing screws & metal nail plugs** – Ideal for securely attaching flashings and structural components.
- **Sealed blind rivets & dome washers** – Reinforced fasteners for sheet and panel mounting.

SEALING AND INSULATION

- **Sealing strip & tape** – Prevents air and moisture ingress at panel joints.
- **Sealants & expanding foam** – Flexible, durable sealing solutions that improve insulation performance.
- **Mineral wool strip** – Fire- and sound-insulating material for sealing joints between panels.

TOOLS AND CLEANING

- **Foam guns** – Professional tools for the smooth and precise application of expanding foam.
- **Cleaning products** – Effective solutions for maintaining tools and application equipment.

