

## Cladboard facade panel - General Instructions

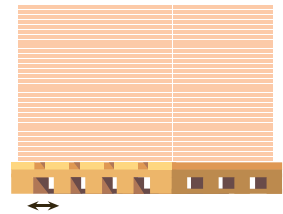
### Scope

These instructions have been drawn up for everyone involved in loading, unloading, storing, transporting, sawing, drilling, installing and/or applying the Cladboard facade panel. Failure to follow the instructions below will result in the product warranty becoming void.

### Transport and Storage

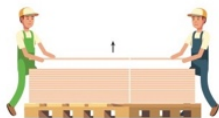
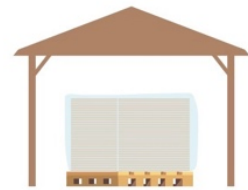
During transport, the panels must be supported by a pallet of the same dimensions, covered against external influences.

Lifting by cranes or lifting equipment from pallet to pallet or from pallet to construction scaffolding should be done with wide plastic straps and not, for example, with steel cables that can damage the edges of the panels. The use of suction cups is not recommended. A good alternative to lifting is to use frames on which the panels can rest vertically – in a slightly oblique way.



When stacked, the panels must be protected against rain. Water between the panels when stacked can cause staining.

The panels must always be stacked flat and horizontally. The pallet on which they are stacked must be completely closed or provided with beams with a maximum spacing of 40 cm.



The panels should never be 'dragged' from a stack as this causes scratching.



The panels are to be carried by 2 people each; lifting the panels from the stack and carrying them tilted.

### Sawing

The panels must be sawn with the correct sawing tools.

It is recommended to use a saw blade with carbide teeth. 4 teeth for 160 mm to 190 mm sawblades and 6 teeth for 225 mm sawblades. A product sheet for a 160 mm saw blade is available can be requested by email ([info@noviclad.be](mailto:info@noviclad.be)). This saw blade in combination with a Festo hand circular saw with rail is a suitable solution for sawing the panels. Sawing must be done on a saw table with a fixed rail. The saw runs on the rail and therefore does not slide over the panel. The panel must be clamped during sawing to prevent vibrations. If chipping occurs on the edges of the panel during sawing, the wrong machinery is being used, or the sawing speed is too high or there is something wrong with the saw blade. If it crumbles, immediately alert someone from the Noviclad team and ask for assistance. In some cases, a sanding block may be used to finish the edges.

Sawing must always be done in accordance with the General Regulations for Labor Protection and always while using dust extraction and a dust mask.

Always remove sawdust immediately with a clean, soft brush. Do not leave dust on the panel, as this dust can later leave cement traces when in contact with water.

## Drilling

Always use the drills supplied by Idonit bv to drill any holes. Regular masonry or concrete drills are not suitable. The drill holes are 2 mm larger than the diameter of the screws. Always remove drilling dust immediately with a clean, soft brush. Do not leave dust on the panel, as this dust can later leave cement traces when in contact with water.

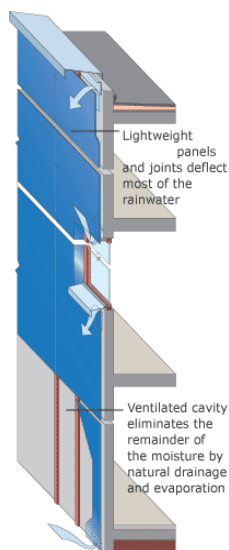
## Installation

The panels can only be used as facade for ventilated facades.

These instructions only cover use for exterior facade. For all other applications, please contact Noviclad.

The Noviclad warranty is valid only under the following conditions:

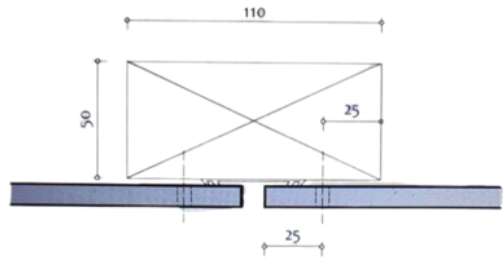
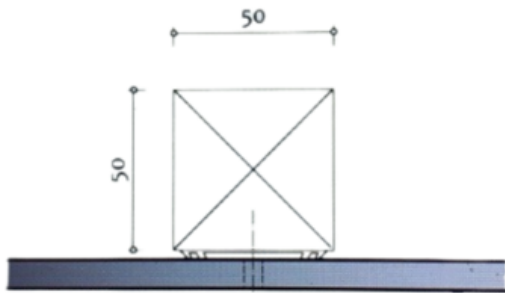
- The facade panels must be screwed according to the "General Instructions" onto a supporting structure of the "ventilated facade" type (characteristics: see diagram below).
- The material of the supporting structure must be wood.
- The wooden supporting structure must be separated from the panel by a black EPDM joint strip, provided by Noviclad.
- The open joint (minimum 25 mm) at the bottom of the cladding must be closed with a perforated aluminum closure profile, available from Noviclad.
- The ventilation opening at the top must be covered (to prevent rain ingress) with a drip edge or roof edge profile without restricting the size of the ventilation opening.
- The main wall to which the wooden supporting structure is attached must itself be wind- and waterproof.



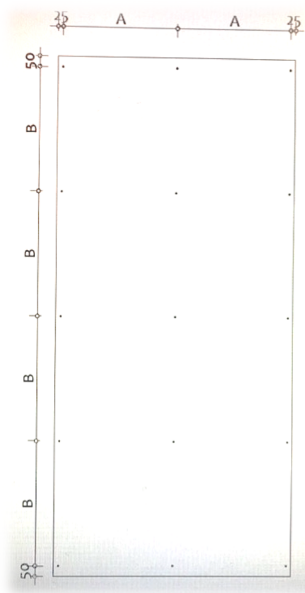
Characteristics of a 'ventilated facade' are:

- Linear openings at the bottom of the facade and at the top under the eaves and sills of at least 15 mm.
- 25 mm of free air space behind the entire panel without any horizontal obstructions.
- No air conditioning or fumes exits behind the facade panels.
- Open horizontal joints of minimum 8 mm.
- Separation of the wooden supporting structure from the panel by means of a black EPDM joint tape, supplied by Noviclad.
- Mounting of the wooden supporting structure on a wind- and watertight substructure.

The panels are attached to a wooden support structure with screws, supplied by Idonit bv. The wooden support structure consists of wooden slats with of minimum depth of 50 mm. The dimensions of the wooden slats shown below are minimum dimensions. For practicality, it is advisable to order slightly wider slats.



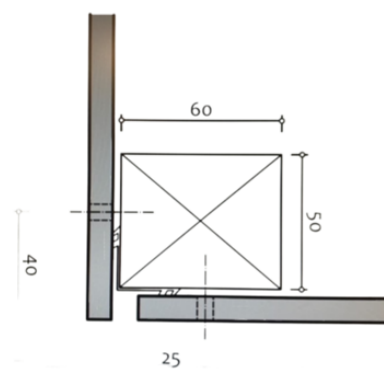
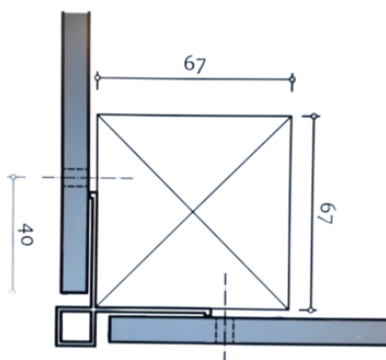
The mutual horizontal axial distance between the vertical slats is maximum 620 mm. For wind loads of above 120 kg/m<sup>2</sup>, the required distance is to be recalculated.  
The joints between the panels are to be 8 to 10 mm wide.



The maximum horizontal and vertical distances A and B (distances between the screw fixation points) are maximum 600 mm.

Here too, the distance must be recalculated for wind loads of above 120 kg/m<sup>2</sup>. The edge distances for the installation are indicated on the drawing below.

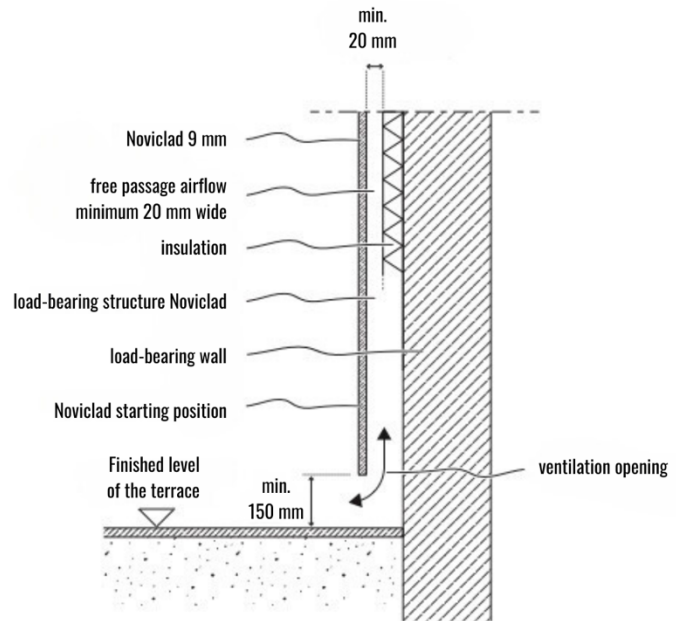
Corner solutions: two examples.



Example supporting structure



Detail plinth



The design, installation instructions and the installation itself must be carried out by experienced professionals, taking into account the Cladboard product sheet and including the strength, the thermal and hygric expansion of the board, which are elements necessary for determining the installation dimensions and voids between the panels. When in doubt, always contact Idonit bv via [info@noviclad.be](mailto:info@noviclad.be).

If the customer wishes to use a supporting structure other than wood, this is the customer's responsibility entirely.

Metal supporting structures have a greater thermal expansion than wooden supporting structures. Therefore, the customer must take the following into account:

- The Cladboard panels, like all other fiber cement panels, can expand/shrink up to 2 mm per meter. Therefore, the panel attachment must not be tight and must allow expansion (movement of the panel). This should be done by making the diameter of mounting holes 2 mm larger than the diameter of the fixing element (rivet or screw).
- Special attention in case of riveting : it is not enough to enlarge the mounting hole. The clamping strength also needs to be limited so that the panel can move in a lateral direction. With a standard rivet fixed in a standard way the panel will not be able to move and will crack when expanding. To limit the clamping strength a riveting tool with stand-off head system can be used.
- To prevent that the panel would slide down 2 fixed points at a distance of maximum 60 cm must be foreseen where no expansion can take place. All other points around these 2 fixed points must be flexible points allowing 2 mm expansion.
- When rivets are used without reduced clamping strength Noviclad is not responsible when panels are cracking.
- Attention should be paid that metal subframes are installed in such a way that they do not cause extra movement on top of the maximum panel movement.

## Cleaning Instructions

Due to their outdoor application, Cladboard facade panels, like all other outdoor installations, are subject to substances from the air and rainwater such as soot, dust, oils, greasy substances, etc., which can settle on the facade panels. The rate and intensity of contamination depend greatly on their surface, hardness, porosity and chemical stability.

By careful installation and, for example, the use of drip edges, proper sealing and thoughtful use of corrosive materials such as zinc, copper, aluminum, steel, etc., discolorations and local contamination can be prevented. Periodic cleaning of the entire installation is also possible by following the instructions below.

## Periodic Cleaning

A simple cleaning with a non-aggressive household detergent or a mild soap solution, followed by rinsing with clean water, is sufficient to maintain a uniform look when applied regularly. If there are longer intervals between cleaning sessions, dirt may become more difficult to remove. Specific cleaning products, depending on the type of contamination, can offer a solution to restore an even appearance.

## Cleaning Guidelines

- The entire surface of the panels must be cleaned from top to bottom. Partial cleaning can cause differences in color tone.
- To test if a cleaning agent is suitable, it is advisable to use it first on a less visible part of the facade (e.g., behind a drain) to determine if the product does not damage the surface. There is a risk that the surface layer of the facade panel becomes cloudy.
- Chemical cleaning products must be diluted with water according to the ratios provided in the technical data sheet of the product and according to the degree of dirtiness. They can then be applied to the surface to be cleaned using a brush, a hand sprayer or a spray gun.
- Scrub with a sponge or cloth and rinse thoroughly with clean water using a garden hose or a low-pressure pressure washer, maximum of 10 minutes after applying the cleaning product. Always refer to the safety advice in the safety data sheet of the cleaning agent used.
- Surfaces that can be affected by the cleaning agent of your choice should always be protected.
- Algae deposits can be removed with a soft household detergent or a mild soap solution, followed by rinsing with clean water.

## Prohibited Cleaning Agents/Methods

- Abrasive tools such as scrub brushes, steel wool, etc. These leave irreversible scratches on the panels.
- A sandblaster or a high-pressure washer with a rotating dirt blaster.
- Cleaning agents with ammonia or solvent-based, such as acetone, white spirit, etc. These damage the surface.

## Additional documentation

Receive below documentation upon simple request via [info@noviclad.be](mailto:info@noviclad.be) :

- Terms of Sale
- Specifications and conditions
- Product sheet
- Safety information
- Performance sheet
- Sawing
- Ventilated facade