



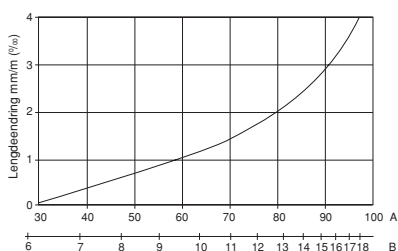
## General

These guidelines apply to the installation of Forestia One-Step Wall, which is a ready-to-install standard chipboard with 12 mm thickness. Forestia One-Step Wall is supplied with tongue and groove and v-joint.

Forestia One-Step Wall is affected by changes in humidity. It contains 5-8% moisture delivered from the factory, which corresponds to an equilibrium relative humidity (RH) of 20-50% (Fig. 1). It is therefore essential that construction moisture is kept under control by means of ventilation and heating.

The panels will move to some degree when variations in humidity occur. A dimensional change of approx. 1.5 mm per metre on the panel plane can be expected on a change in relative humidity from 30% to 65% (Fig. 1). The best result is achieved when the panel's moisture content is in equilibrium with the relative humidity in the building.

Fig. 1



A = Relativ fuktighet  
B = Platens likevektsfuktighet

## Areas of application

Forestia One-Step Wall can be installed in dry rooms where there is no direct water run-off (climate class 1). Forestia One-Step Wall can be installed in constructions where the requirement for fire classification surface is D-s1, d0.

## Transport, storing and handling

The panels must be protected against moisture during transport and storage. The panels must be stored on a stable, flat surface with 3-5 battens per pallet.

When storing several pallets stacked on top of each other, the battens should be positioned directly above each other.

Ideally, the panels should be stored indoors. If this is not possible, they must be stored directly on the ground. A moisture barrier must be placed under the pallets to prevent moisture penetration from the ground. The panels must be handled carefully so as not to damage the film and edge. To avoid damage to the surface, the panels must be lifted from the packages, and not pushed or pulled.

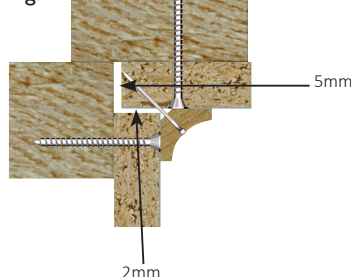
## Base for installation

The panels are mounted directly on well-aligned stud partitions with exact centre-to-centre spacing c/c 600 mm. Horizontal supports with a centre-to-centre spacing of c/c 800 mm must be installed between the studs. The panels can also be installed on horizontal laths of, for example, masonry/concrete wall. The battens must have a centre-to-centre spacing c/c 600 mm. Masonry/concrete must be properly dried and cured to avoid releasing moisture onto the panels. If this is not possible, a moisture barrier must be installed between the masonry and studs/battens. If heavy objects are to be attached to the wall, extra horizontal nail strips should be installed as support.

## Installation

The building must be sealed, sufficiently ventilated, and properly dried out prior to installation. Heating must be activated. The panels must be installed with a min. of 5 mm clearance from ceilings, floors, corners and other fixed structures (Fig. 2).

Fig. 2



For wall surfaces longer than 8 m, an extra expansion clearance must be added of at least 1.5 mm per metre of wall. This clearance can be covered by, for example, an internal partition wall.

## Fixing with staples

The staples must be straight and at least 10x35 mm. The spacing between the staples is c/c 150 mm. The staples must not "perforate" the groove, but follow the surface. **NB.** Be careful when adjusting the stapler.

## Fixing with screws

For fixing to wood and steel, special screws with flat heads, wood screws with recessed heads, 3.0x35 mm or equivalent, are recommended.

The spacing between the screws is c/c 150 mm.

## Top tips

When using a handsaw, the film should face upwards for the best results. When using a fine-toothed electric jigsaw or electric circular saw, the film should face downwards. Forestia One-Step Wall can be painted over if necessary. Clean the surface with a weak ammonium/water solution first. If done properly, there is no need to tackify the surface. Acrylic paint is recommended and one coat is usually enough. Recommended gloss rating is 07 or 10.

## Water vapor diffusion

In order to achieve sufficient water vapour diffusion resistance and good air tightness in insulated external walls and roofs, a vapor and airtight layer must be installed between finished wall panels and insulation layer, e.g. a PE foil. The vapor barrier must have an  $s_d$  value of at least 10 m.

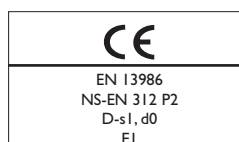
## References

NBI Sheet 543.204 Installation of plasterboard, chipboard and fibreboard on walls and ceilings.

NBI Sheet 571.046 Chipboard. Types and properties.

## General information:

All our products are subject to a thorough quality control process. Nevertheless, faults can occur in individual products. The customer is obliged to check the goods in accordance with our general terms of sale and delivery; this includes checking all products prior to installation. The customer must perform installation and maintenance according to the supplier's installation instructions. The supplier is not responsible for malfunctions, defects, damage, wear and tear, etc. due to faulty installation and/or maintenance. In all cases, our responsibility as a supplier is limited to the purchase price of the part of the item that is defective. We reserve the right to make changes to the specifications without notice.



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