



General

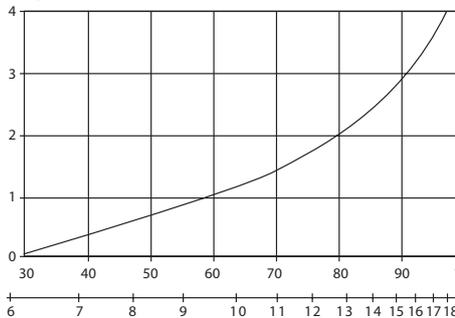
These guidelines apply to the installation of One step ceiling 12x600x1200mm, a ready-to-install ceiling panel, profiled on all four sides with tongue and groove and V-joint. One step ceiling should be stored indoors for a minimum of three days and in unopened packaging before installation begins.

One step ceiling contains 5–8% humidity delivered from the factory, which corresponds to 30–60% RH (Fig. 1). It is therefore essential that building humidity is kept under control with ventilation and heating.

Brickwork and plastering must be completed before installation of One step ceiling starts.

The panels can move to some degree with variations in humidity. A dimensional change in the panel of approx. 0,15% (1.2mm/m) in the event of a fluctuation in relative humidity from 30%- 65% can be expected (fig. 1).

Fig. 1



A = Relative humidity

B = Panel equilibrium humidity

Applications

One step ceiling can be used as a ceiling panel in all rooms where no requirements apply for moisture-resistant materials (climate class 1). One step ceiling can be installed in constructions where the requirement for fire classification surface is D-s2, d0. One step ceiling can also be used in well-ventilated laundry rooms and bathrooms in homes.

Transport, storage and handling

The panels must be protected against moisture during transport and storage. They must be stored on a stable and flat surface with 2-3 battens per pallet. When storing several pallets on top of each other, the battens should be positioned directly above each other.

Base for installation

One step ceiling must be attached across battens, trusses or beams (min. 30x48mm) with c/c 600 mm. Where the panel pattern requires installation along the length of the battens, batten spacing must be c/c 300 mm. If a diffusion barrier is required, a 0.15 mm polyethylene sheet is recommended, mounted between battens and trusses/ beams. This will allow for the installation of concealed electrical systems without the diffusion barrier being penetrated. When using battens thinner than 30 mm, the diffusion barrier must be mounted between panels and battens.

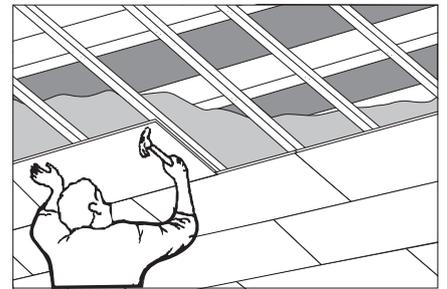
All free short ends against walls and other fixed structures must be supported with the same battening dimension as the rest of the ceiling. Panels can be mounted directly on top of existing ceilings for renovation projects. Straightening and correction may be required. If One step ceiling is installed on battens on masonry/ concrete ceilings, a diffusion barrier must be installed between the masonry/concrete and the ceiling. When installing on surfaces with other materials with a higher moisture content than chipboard, the use of a diffusion barrier between the materials must be considered. This is to avoid moisture absorption and expansion in the panels.

Installation

The building must be sealed, ventilated and properly dried out prior to installation. Heating must be started. In order to achieve a straight finish of the pattern against the walls and as little cutting as possible, draw a dimensioned sketch of the ceiling. This will indicate any cutting of the first row of panels required. We recommend installing the first row of panels using a line.

Mount the panels with a minimum of 10 mm clearance against walls, pillars and other fixed structures. Add a continuous expansion gap of 10–20 mm for ceiling surfaces greater than 10 m. The gap can be covered by e.g. a partition wall. Fasten One step ceiling in the groove using Forestia Wood screw 3.0/35 mm or equivalent. (Fig. 3). A stapler can also be used. Staples must have a straight back, a minimum width of 10 mm and a minimum pin length of 35 mm. **NB.** Pressure on the staple gun must be adjusted carefully.

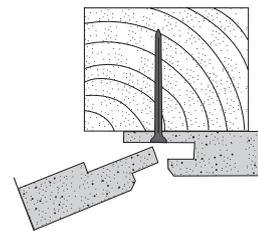
Fig. 2.



Staples/screws must not be submerged, but must follow the surface in the grooves. When mounting along battens, fasten the panels with a screw distance of 150 mm to the long sides of the panels and to the supportive batten on the short end (fig. 4).

For installation across battens, fasten the panels with a screw distance of 150 mm at the short end and to the crossing battens (Fig. 2). Fasten the first row of panels along a wall open through the panels. Screw holes will be covered by the ceiling border.

Fig. 3



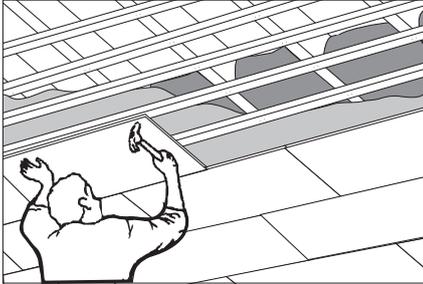
NB! Do not force the panels together tightly. Do not glue the joints.

Good advice

When using a fine-toothed electric jigsaw or circular saw, the foil should face downwards.

Do not press the ceiling border too hard against the panels. This may cause small wrinkles in the foil due to movements of the structure.

Fig. 4



If painting/staining of the ceiling borders is subsequently required, no paint/stain must be applied to the ceiling panels at the same time, as this can also lead to small wrinkles in the foil in the event of any movements in the construction.

One step ceiling can be washed with all common non-greasy detergents. If steam cleaning the ceiling, keep steam temperature low. This is achieved with the help of a small amount of steam, a double cloth and a smooth movement of the nozzle.

One step ceiling 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.

General information

All our products undergo thorough quality control. However, faults can still arise on some products. The customer is required to check purchases in accordance with our general sales and delivery terms, including a check of all products prior to assembly. Assembly and maintenance of products by the customer must be in accordance with the supplier's instructions. The supplier is not liable for malfunctions, defects, damage, or wear-and-tear, etc. caused by incorrect assembly or maintenance. In all cases, our liability as a supplier is limited to the purchase price of the part of the product that is defective. We reserve the right to make changes to the specifications without prior warning.



EN 13986
NS-EN 312 P2
D-s1, d0
E1



Forestia AS, Damvegen 31
2435 Braskereidfoss, Norway
Telefon: +47 38 13 71 00

E-mail: forestia.kundesenter@byggma.no
www.forestia.no