

To: Alloc sales personnel and Alloc distributors

Installation of Alloc products in combination with floor heating

Alloc flooring in combination with heated supporting floors has been thoroughly tested by NETAS (Norwegian Institute of Energy & Technique AS) in Trondheim, Norway.

In order to achieve the best installation result and comfort when combining Alloc flooring with supporting floors with integrated heating, we want you to consider the following:

PREPARATIONS

- Maximum allowed surface temperature on the Alloc flooring is 28 °C (82 °F).
Initiative: Thermostat in the supporting floor - OFF at temperatures over 30 °C and ON below 30 °C (86 °F).
- The effect of the heating elements must not exceed 60 W/m².
Initiative: Multiply the room area with 60 to find out the maximum allowed effect of the heating elements.
E.g.: 26 m² x 60 W/m² = 1.560 W => effect of the heating elements must not exceed 1.560 W.
For heating elements/mats a system with a maximum effect of roughly 1.500 W has to be chosen.
For water-borne heating systems this means that the supplier of the heating system must calculate what the maximum incoming and outgoing water temperatures can be in order to keep within the limit.
- Prior to installation of Alloc floorboards on a supporting floor with integrated heating a moisture barrier has to be installed – aging resistant plastic foil (polyethylene) with a minimum thickness of 0.2 mm.
- When installing Alloc floorboards with integrated underlay material on heating elements/mats, equipped with a soft thermo underlay material, then you have either to install pressure-distributing plates of wood or plaster (with a minimum thickness of 6 mm) or remove the integrated underlay material before the Alloc floorboards can be installed.
Thermal resistance for the Alloc floorboards with integrated underlay material is 0.12 m² K/W.

N.B.: When removing the integrated underlay material there is a risk that remainders of the glue on the backside of floorboard can stick to the heating elements/mats during installation.
Initiative: Place the floorboard face down and remove the integrated underlay material. Use the moisture barrier, place/glue this plastic foil on the backside of the floorboard and cut into size of the floorboard.
Turn the floorboard and install it in the normal procedure.
- Alloc Home & Alloc Tile: Use an underlay material (if necessary) with low insulating property.
Thermal resistance for Alloc Home is 0.0912 m² K/W.

RESTRICTIONS

- All heating elements must be turned off during installation and the temperature of the supporting floor must be between 15 °C and 25 °C (59 °F and 77 °F).
- There must not be both heated and non-heated areas within the same flooring area unless separated by expansion profiles.
- Deviations measured in the surface of the supporting floor must be max ± 2 mm/2 m (3/16" per 10 feet).

USE

- When using heating elements, be aware of that loose rugs/mats may function as heat accumulators. Make sure that the heat does not exceed the maximum allowed surface temperature of 28 °C (82 °C).
- How to regulate the temperature after the installation of Alloc flooring or if the heating elements have been turned off for a period of time:
 - The first week the heating should be set on a low temperature 16-20 °C (61-68 °F).
 - The second week the heating can be adjusted according to above mentioned recommendations.