



 **INSTALLATION INSTRUCTIONS**

# SILENCIO<sup>®</sup> THERMO

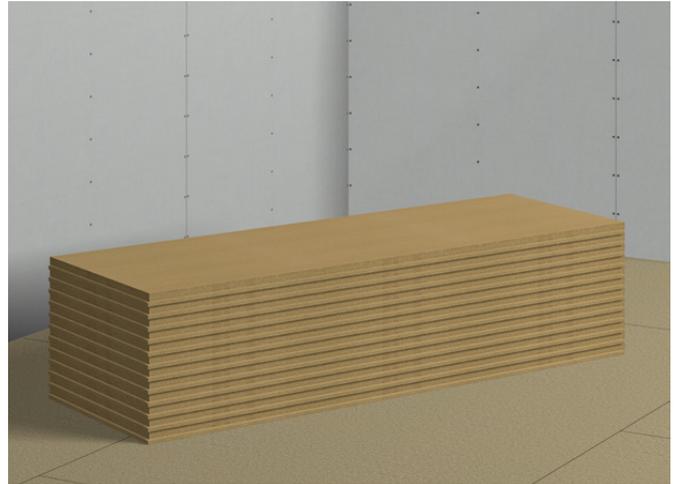
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## 1 Before getting started

Installation drawings must be available before laying starts. Pipes installed in Hunton Silencio Thermo must have good frictional properties and be of the "5-layer type" with integrated moisture barrier. For questions about this, contact the pipe system provider.

Acclimatise the panels indoors on a level surface for 48 hours. The panels should not be stored outdoors. Humidity (RH) in the room should not exceed 60% when installing Hunton Silencio Thermo. On tiers of wooden beams where sound class C NS 8175 (53 dB) must be achieved, always use Fermacell gypsum fibreboards with straight edge or the like.

Before proceeding, it is very important that you read these installation instructions in their entirety. You should also read the installation instructions for the other products included in the construction process.



## 2 Subfloor/substrate

Surface deviation according to EN 3420-1 and SINTEF Building Research Design Guide 541.505  
Laying of parquet flooring

Type tolerance	Measurement length m	Tolerance class PB
		Normal requirements for parquet and tiles
Total levelness	Entire part-product	± 10mm
Local levelness (depressions and bulges)	2.0	± 3mm
	1.0	± 2mm
	0.25	± 1mm

On tiers of wooden beams, the subfloor must be 22mm chipboard or equivalent. Grooved chipboard shall not be used in combination with Silencio.

On slatted floor of 23x98mm floorboards, a panel layer of at least 9mm or equivalent must be laid.

On concrete, a vapour barrier at least 0.2mm thick must be used under Hunton Silencio Thermo.

The substrate/subfloor must be clean and dry.



### 3

## Walls

Both light and heavy walls must be placed on the supporting substrate and not on Hunton Silencio Thermo.



### 4

## Type of top floor

Here is a table showing what must be placed above the Silencio panels before the top floor is laid. Felt paper must be used between the layers.

	Type of Silencio	Laminate flooring	Laminate w/ foam underlay	Parquet ≥ 14mm	Covering/ carpets	Vinyl click flooring	Tiles/slate
Light-weight horizontal divisions	Impact noise panel 24/36mm	Fermacell 10mm straight edge	Fermacell 10mm straight edge	Fermacell 10mm straight edge	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed
	Parquet substrates 4/6/8/12mm	√	Fermacell 10mm straight edge	√	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed
	Silencio Thermo 24/36mm	Fermacell 10mm straight edge	Fermacell 10mm straight edge	Fermacell 10mm straight edge	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed
Heavy horizontal divisions	Impact noise panel 24/36mm	Fermacell 10mm straight edge	Fermacell 10mm straight edge	√	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed
	Parquet substrates 4/6/8/12mm	√	Fermacell 10mm straight edge	√	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed
	Silencio Thermo 24/36mm	Fermacell 10mm straight edge	Fermacell 10mm straight edge	√	Chipboard 15mm w/tongue and groove	Fermacell 10mm straight edge	Cross-laminated 2 x Fermacell 10mm straight edge or screed

Floor gypsum may be used instead of Fermacell Gypsum fibreboard.

**Laminate:** On Hunton Silencio Thermo, a pressure distributing panel is required under the laminate flooring. This can be a Fermacell gypsum fibreboard 10mm with a straight edge. \*See section 6.

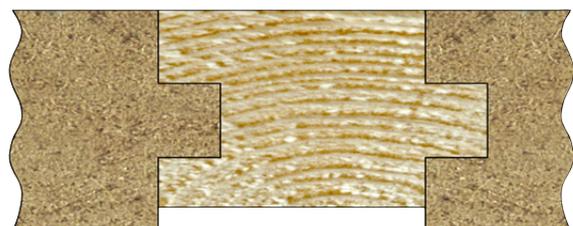
**Parquet:** On concrete, parquet with a thickness of at least 14mm can be laid directly on all varieties of Hunton Silencio Thermo. For tiers of wooden beams, use pressure distributing panel, such as Fermacell gypsum fibreboard 10mm with straight edges. Also refer to the parquet manufacturer's instructions.

**Other top floors:** When using coverings, carpets, click vinyl or similar, a chipboard with tongue and groove and a minimum thickness of 15mm is used.

**Tiles:** Tiles can be mounted on top of two layers of Fermacell gypsum fibreboard w/ straight edge or the like, which is cross-laid and glued together with suitable adhesive. The panels must be laid floating on Hunton Silencio® Thermo with a distance to the walls as described in section 5.

Suitable screed may also be used, provided that a 0.2 mm plastic film is installed between Hunton Silencio Thermo and the screed, also refer to the supplier's instructions.

**Solid wood:** Hunton Silencio Thermo 36 can be delivered with tongue and groove and Hunton wooden joists for installing a solid wood floor with a minimum thickness of 18mm. Solid wood flooring must be screwed to the joists. NOTE! Not to the subfloor. Solid wood flooring intended for floating installation is used as per the instructions for parquet flooring. Also refer to Section 7 and the supplier of the top floor.

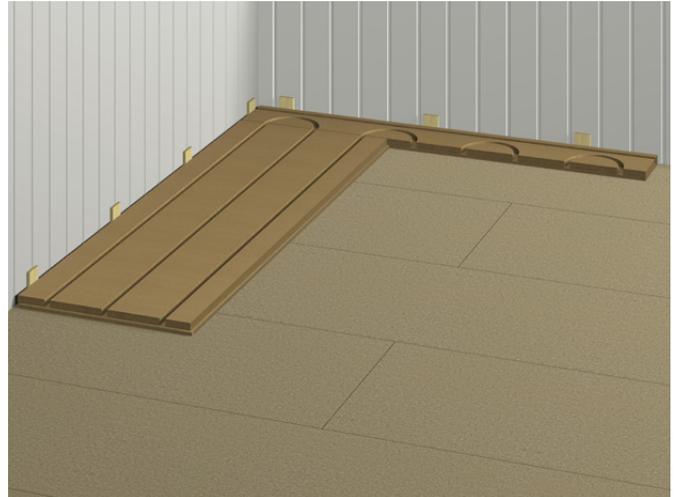


## 5 Laying of Hunton Silencio Thermo

Start laying with the turning panels against the wall and then the standard plates perpendicular to these. Always ensure that the grooves are aligned. Use spacers against the walls. Hunton Silencio Thermo must be laid bonded with at least 200mm of staggering. The use of panel elements below 150mm should be avoided.

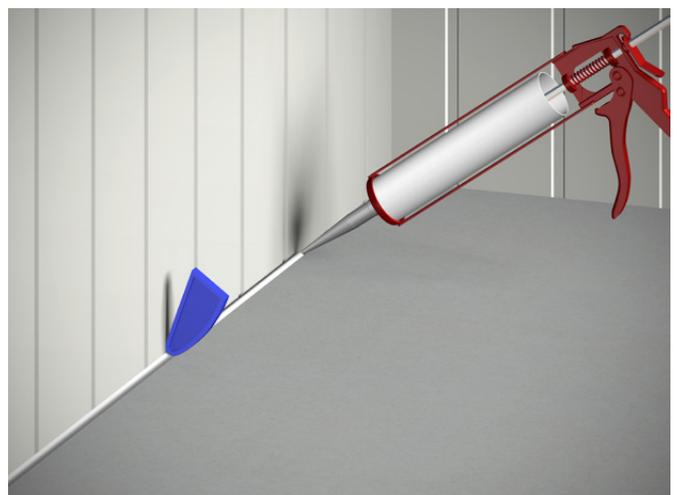
Hunton Silencio Thermo must be laid floating, room by room. A minimum of 5mm clearance to walls and fixed objects is required. The clearance is increased to 10 mm if one of the room's length exceeds 6 metres. There should be no sealant in the gap against the wall. The panels must be laid bonded. Top flooring must be installed perpendicular to Hunton Silencio Thermo. The panels are cut the easiest using a saw and dust extraction. Adaption of tracks is done using a power router with a width adapted to the pipe dimension. Make sure that the radius is not reduced to less than the centre-to-centre distance. For routing widths, it is increased by 2mm relative to the pipe dimension. Depth is increased by at least 3mm, relative to pipe dimension.

Aluminium heat transfer plates must be of a thickness of at least 0.5mm and designed for use with Hunton Silencio Thermo. Above the heat transfer plates, there **MUST** be felt paper before any parquet or pressure distribution panels.



## 6 Fermacell gypsum fibreboard with straight edge/floor gypsum/chipboard

Fermacell gypsum fibreboard with straight edge/floor gypsum/chipboard or the like must be laid floating, perpendicular to Silencio Thermo with a clearance against the wall. This clearance gap may advantageously be sealed with a suitable sealant, particularly when gypsum is used. **NOTE!** The Silencio panels should not be caulked. Felt paper or similar must be used before laying top floor.



## 7 Solid wood flooring

The thickness of the solid wood flooring should be at least 18mm. The floor must be fixed to joists using screws acc. to the supplier's instructions. Timber joists should not be glued to Hunton Silencio® Thermo. The first joist's distance to the wall should not exceed 150mm, see diagram. Centre-to-centre distance between joists will then be 635mm. NOTE! Hunton Silencio® Thermo for solid wood flooring is not delivered with turning panels, why these will need to be routed.



### Turning panel:

300 x 1600/1800 x 36mm



### Standard panel element:

600 x 1800 x 36mm



### Pipe dimension:

16mm, centre-to-centre distance 200mm 17mm,  
centre-to-centre distance 200 and 300mm 20mm,  
centre-to-centre distance 300mm

### Supply element:

600 x 1800 x 36mm





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