



 **INSTALLATION INSTRUCTIONS**

# SILENCIO<sup>®</sup> ACOUSTIC UNDERLAY BOARDS

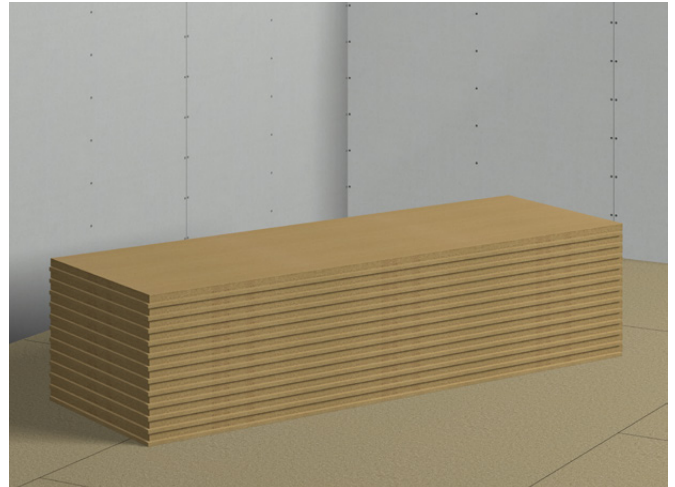
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## 1 Before getting started

Acclimatise the Silencio 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 Silencio.

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 Silencio.

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 Silencio.



## 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 $\geq 14\text{mm}$	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 Acoustic Underlay Board, 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. For tiers of wooden beams, use pressure distributing panel, such as Fermacell gypsum fibreboard 10mm with straight edges. \*See section 6. Also refer to the parquet manufacturer's instructions.

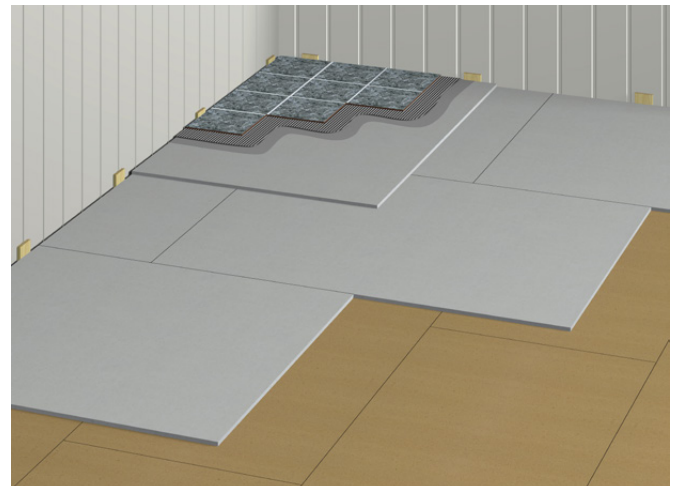
**Other top floors:** When using coverings, carpets, click vinyl or similar, a chipboard with tongue and groove and a minimum thickness of 15mm is used.



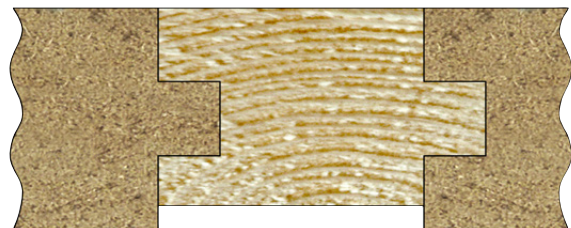
**Tiles/slate:** Can be installed on 2 layers. Two layers of Fermacell gypsum fibreboard w/ straight edge or the like, which is cross-laid and glued together with suitable adhesive. The panels must be laid floating on Silencio® with a distance to the walls as described in section 5. Suitable screed may also be used, provided that a 0.2 mm plastic film is installed between Silencio and the screed, also refer to the supplier's instructions.

**Heating:** Heating foil, electric underfloor heating mats with the cable fixed on a grid with fixed centre-to-centre distance, and self-limiting heating units can be installed on Silencio, if the product is approved for use on a flammable material and does not exceed 60 W/m<sup>2</sup>.

Also refer to the top floor supplier.



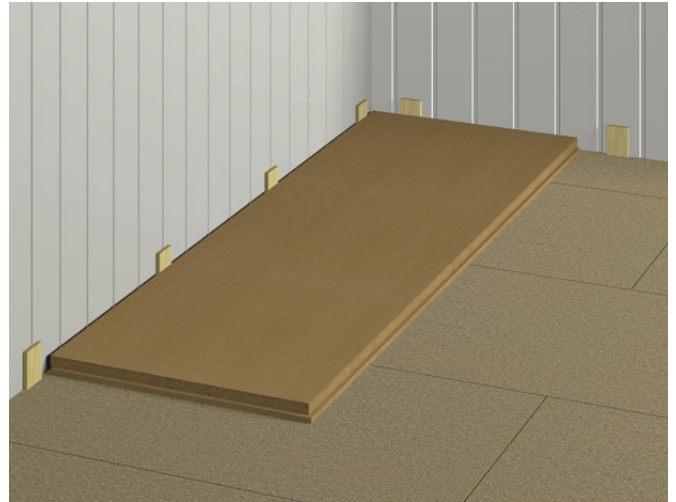
**Solid wood:** Hunton Silencio 36 can be delivered with tongue and groove and Hunton wooden joists for installing a solid wood floor with a minimum thickness of 18mm. Solid wood flooring must be screwed to the joists. NOTE! Not to the subfloor. Solid wood flooring intended for floating installation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



## 5 Laying Hunton Silencio 24/36

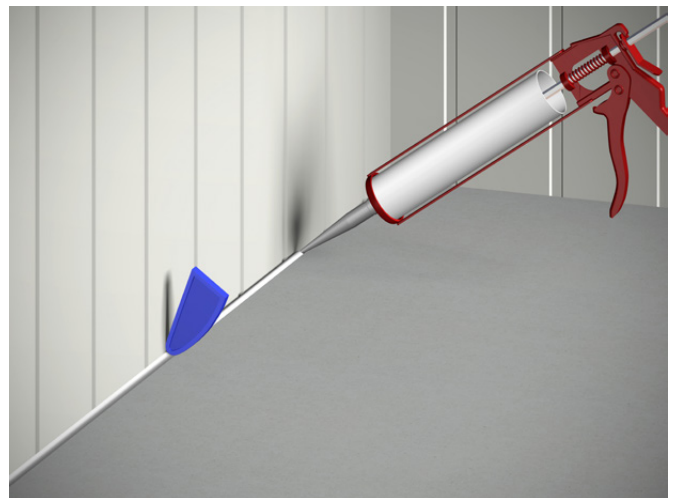
Hunton Silencio must be installed bonded, at least staggered 200mm sideways. The use of panel elements below 150mm should be avoided. Start laying Hunton Silencio in a corner. Use spacers against the walls. Panels must be laid floating, room by room, with a minimum of 5mm clearance against walls and fixed objects. The clearance gap is increased to 10 mm for room with widths/lengths exceeding 6 metres. There can be no sealant in the gap against the wall. Instead, a backer rod can be used.

Floors installed on top of Silencio must be installed perpendicular to the underlying Silencio panels. Felt paper must be used between the top floor and Silencio.



## 6 Fermacell gypsum fibreboard with straight edge or the like on top of Hunton Silencio

Fermacell gypsum fibreboard with straight edge, floor gypsum, chipboard or the like must be laid floating, perpendicular to Silencio with a gap 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 the like must be used before laying top floor.



## 7 Solid wood flooring on Hunton Silencio

The thickness of the solid wood flooring must be at least 18mm. The floor must be fixed to joists using screws acc. to the manufacturer's instructions. Timber joists cannot be glued to Silencio. The first joist's distance to the wall should not exceed 150mm, see diagram. Centre-to-centre distance between the joists will then be 635mm.

