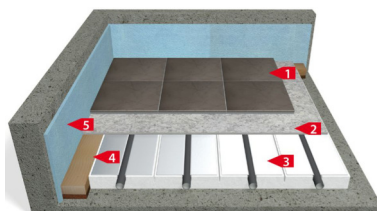


## Application Sheet

# SpeedUp - Strongboard for Tile and Laminate on Concrete Substrate

### Tile / Natural Stone



- |   |                                        |         |
|---|----------------------------------------|---------|
| 1 | Tile / natural stone incl. adhesive    | ≥ 12 mm |
| 2 | Strongboard for tile and laminate      | 5 mm    |
| 3 | SpeedUp heat panel + FH composite pipe | 30 mm   |
| 4 | Support batten (30 mm)                 |         |
| 5 | SpeedUp perimeter insulation           |         |

### Technical Data

<b>Floor finish</b>	≥ 8	mm	Tile size: 10 x 10 cm minimum; 40 x 60 cm maximum; natural stone thickness: 10 mm or more; joint width: 3 mm or more
<b>Construction height</b>	≥ 47	mm	Height including floor finish
<b>Weight</b>	~ 37	kg/m <sup>2</sup>	Weight including floor finish
<b>Thermal resistance (R)</b>	0.86	m <sup>2</sup> K/W	Thermal resistance value for SpeedUp panel
<b>Thermal transmission coefficient (U)</b>	0.97	W/m <sup>2</sup> K	Be aware that building regulations can specify better thermal insulation
<b>Distribution load</b>	≤ 2.0	kN/m <sup>2</sup>	
<b>Point load (≥ 20 cm<sup>2</sup>)</b>	≤ 2.0	kN	Sum point load ≤ design load; please notice special heavy objects (aquaria etc.)
<b>Impact subsonic noise reduction</b>	18	dB	Test value according to ISO 140-8; applies to concrete slabs thicker than 12 cm

<b>Application area</b>	Rooms in residential buildings and houses; bedrooms and wards in hospitals; bedrooms in hotels and hostels kitchens and toilets. Corresponding to category A of EN 1991. Office areas. Corresponding to category B of EN 1991.
<b>Requirements &amp; special features</b>	A level, smooth and structurally sound surface is necessary for full surface contact with the heating elements (maximum unevenness allowed is 3 mm per 1 m). Header panels and cut modular panels at the edges of the area must be glued to the substrate. Strongboard is only approved for use with Danfoss components. Lay tiles using the combined method with Mapei adhesive and Elastorapid (see installation instructions). Structural sealing according to EN 13967 must be placed beneath the floor panel in case of structures facing the ground, and otherwise on the unfinished floor. Observe all installation instructions and manufacturer's instructions.
<b>Additional insulation</b>	For maximum thickness of additional insulation and recommended minimum thermal resistance values, please refer to the SpeedUp handbook.
<b>Construction</b>	Referring to EN 1264, EN 1991, EN 13967 and local building regulations.

<b>Construction number</b>	504
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