

## Why Use F-Board?

F-Board is designed to be used beneath floor heating systems to minimize downward heat loss and aid in faster warm-up times.

Without the use of F-Board insulation, some of the energy generated from the heating elements travels downwards into the floor below leaving less heat available to warm the tiles.

F-Board insulation is of particular importance in small applications like bathrooms, en-suites, and powder rooms because these areas usually require “faster” warm-up times, higher floor temperatures (than larger, general living areas) and are often occupied for only short periods of time.

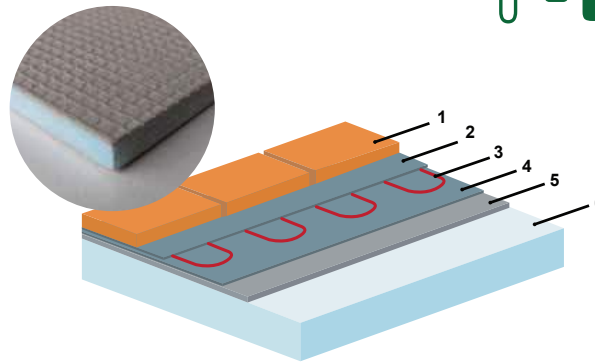
F-Board insulation ensures energy saving, cost savings, improved comfort and quicker warm-up times.

## Features

- High water resistance
- High insulation value for the thickness
- High compressive strength
- Very light weight
- Tough cementitious coating on both sides of the sheet
- Easy to install

## Installing F-Board

- F-Board is simply glued (using a staggered joint layout) to the concrete or timber floor using typical tile adhesives (non-solvent based) suited to electrically heated floors. We recommend Davco SMP Evo.
- The floor surface must be a clean, dry, dust-free, smooth flat surface.
- Plaster board jointing tape is recommended for all joints.
- Where required, the water-proofing membrane may be placed below or on top of the F-Board insulation layer, but not over the heating cables.
- The heating elements are then placed directly on to the F-Board and the Tiler continues the floor finish/tiling process following normal practices.
- The heating elements can be in a screed bed or glue bed/leveling compound, based on the heating design selected.



1 - Floor tiles, 2 - Flexible tile adhesive, 3 - Floor heating mat, 4 - F-Board insulation, 5 - Flexible tile adhesive, 6 - Concrete slab

## Technical Data

The F- boards are made of extruded polystyrene, and the surface finish on both sides consists of a polymer cement filler material reinforced with glass-fibre mesh.

Characteristic of the core:

Characteristic	Standard	Value	Comment
Compression strength	DIN EN 826	300 kPa	Compressive stress at 10% deformation
Density		35 kg/m <sup>3</sup>	
Long-term water absorb	DIN EN 12087	≤1.5% vol	By immersion
Temperature range		-50°C to +75°C	

Product characteristics:

Characteristic	Standard	Value	Comment
Fire resistance	DIN EN 13501	E	
Thermal conductivity	EN 12667	0.033 W/mK	

*F-Board is CFC, HCFC and HFC free*

Stock Program

Stock Code	Dimensions (mm)	Area m <sup>2</sup>	Weight +/- 10% (kg)	R Value (m <sup>2</sup> K/W)
C1G010	1200 x 600 x 6	0.72	2.35	0.15
C1G020	1200 x 600 x 10	0.72	2.37	0.27

Refer also to the F-Board Installation Guide