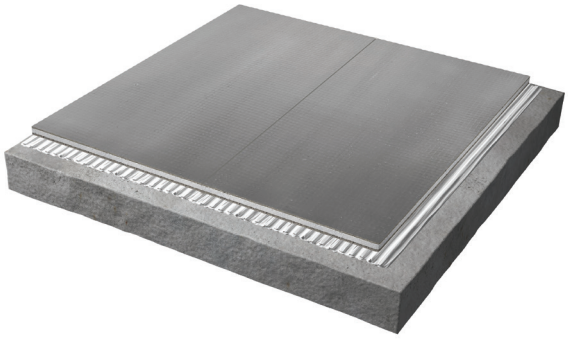
Cement Coated Insulation Boards

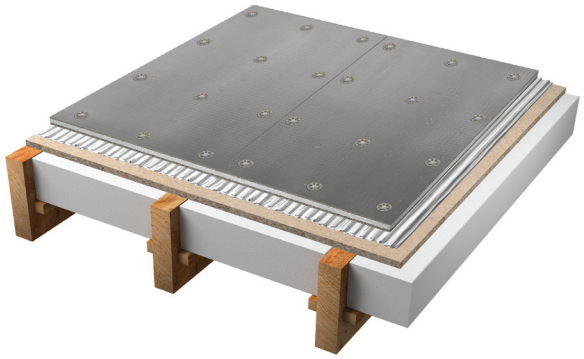
Installation

INSTALLATION ONTO CONCRETE OR TIMBER FLOORS

The floor must be clean and dry. The insulation board should be installed using a flexible, cement-based adhesive. The adhesive should be trowelled out and combed through with a 6/8mm notched trowel to give a ribbed bed, any slight depressions being filled by the mortar. The boards should be laid on the freshly applied ribbed bed and thoroughly bedded in to ensure that no voids are left beneath the boards and they are solidly supported. All boards should be laid with staggered joints.



To attain waterproof joints the boards should be sealed during installation using silicone sealant. The sealant should be applied to the edge of the fixed board immediately prior to the next board being installed and placed in position. Allow the adhesive attaching the board to the subfloor to cure and then lay the heaters directly onto the board. Tile over heater using cement-based flexible adhesive and grout.



ADDITIONAL STEPS FOR TIMBER FLOOR

Existing floorboards should be structurally sound and if necessary, smoothed with a latex/cement self-levelling compound to give a flush fit. The insulation board should be installed using a flexible, cement-based adhesive.

When the adhesive has cured, the boards should be secured using a screws and washers. These are installed at the rate of 12 per board (3 rows of 4). The screws should be a minimum of 30mm from the edge of the insulation board. The screw washer is tightened into the board until the screw head is flush with the surface.

TECHNICAL DATA - Insulation Boards						
	6mm	**10mm**	**20mm**	**30mm**	**40mm**	**50mm**
WIDTH - mm	600					
LENGTH - mm	1250					
AREA - m^2	0.75					
WEIGHT - kg (kg/m^2)	2.2 (2.9)	2.3 (3.1)	2.5 (3.4)	2.8 (3.7)	3.0 (4.0)	3.2 (4.3)
THERMAL CONDUCTIVITY - W/mK	0.036					
THERMAL RESISTANCE - m^2K/W	0.14	0.25	0.53	0.81	1.08	1.36
WATER VAPOUR PERMEABILITY (Sd) - m	0.6	1.2	2.7	4.2	5.7	7.2
COMPRESSIVE STRENGTH - kPa	300					
BOND STRENGTH - kPa	219					
SHEAR BOND STRENGTH - kPa	325					
MAXIMUM TILE WEIGHT - kg/m^2	60					
THERMAL EXPANSION COEFFICIENT (FOAM CORE ONLY) - mm/m per °C	≤0.07					
WATER ABSORPTION (2 DAY IMMERSION)(FOAM CORE ONLY) - % by volume	≤1.5					
FIRE RATING - Class	E					
OZONE DEPLETION POTENTIAL - ODP	0					
GLOBAL WARMING POTENTIAL - GWP	<5					