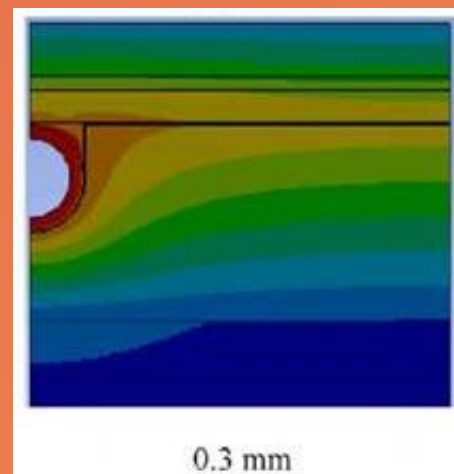
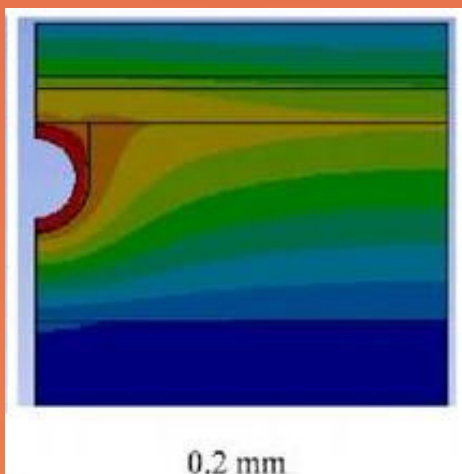
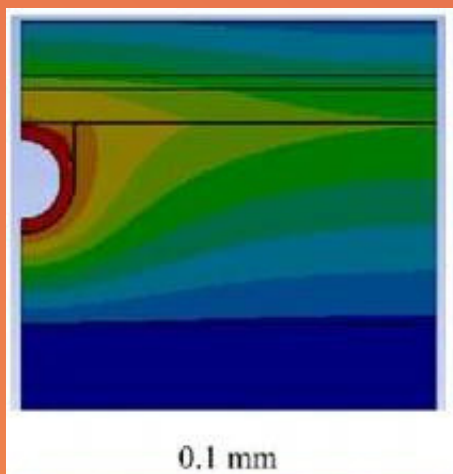


XPS400 DUAL-PURPOSE OVERLAY BOARD

- Our XPS400 kpa boards come with 200 microns of aluminium foil to achieve quick, even spread of heat across the floor.
- Our boards are suitable for wooden and screed subfloor. They can be tiled on straight, (being 400kpa), using solvent free adhesive.
- Please see the following diagram to understand the difference in spread of heat with different thickness of aluminium on the overlay board. Boards without aluminium foil or a very thin layer of aluminium foil may work out cheap initially, but they can result in higher energy / fuel bill over the period of time.
- Our overlay boards have aluminium foil in the grooves too, which means that heat will actively reflect to the floor and result in faster heat transfer.
- The above-mentioned features make our panels very effective and energy efficient, resulting in lower fuel bills.
- Offers a combined floating floor and underfloor heating solution
- 600 x 1200 x 20mm (for 16mm pipe)
- 600 x 1200 x 16mm (for 12mm pipe)

Temperature distribution in radiant floor with various thickness of aluminium radiant sheet at water temperature 45°C



16mm Panels With 12mm Pipe (120 Pipe Center)

Flow	Floor covering W/m2					
Temp (DegC)	Tile (0.1 TOG)	Vinyl (0.5 TOG)	Laminate (0.8 TOG)	Engineered 18mm (1.4TOG)	Carpet (2.0 TOG)	Carpet (2.5 TOG)
50	105	91	70	59	50	42
45	90	78	60	50	42	35
40	75	64	50	42	35	30
35	51	42	38	31	26	23

20mm Panels With 16mm Pipe (150 Pipe Center)

Flow	Floor coveringW/m2					
Temp (DegC)	Tile (0.1 TOG)	Vinyl (0.5 TOG)	Laminate (0.8 TOG)	Engineered 18mm (1.4TOG)	Carpet (2.0 TOG)	Carpet (2.5 TOG)
50	141	97	86	73	72	64
45	114	85	84	71	60	52
40	91	75	67	55	46	40
35	65	54	48	39	33	30

Technical data sheet of XPS 400 20-16

		XPS400
Density of XPS	Kg/m3	Approx 40
Thermal conductivity, 90 days, 10°C	W/mK	<0.034
Compressive strength at 10% deflection or yield, (vertical)	kPa	>420
Fire Protection Class		B2
Quality Management System	1SO9001	EN13164

	Properties	Unit	Unit	Value
Measurements	Thickness	mm	DIN EN 823	16 or 20
	Length	mm	DIN EN 822	1200
	Width	mm	DIN EN 822	600
Tolerances	Thickness	mm	DIN EN 823	± 0,5
	Length	mm	DIN EN 822	± 5
	Width	mm	DIN EN 822	± 1
	Rectangularity	mm/m	DIN EN 824	≤5
Property mechanics	Compressive strength or compressive stress at 10% deformation	kPa	DIN EN 826	≥300 - ≥700 *
	Tensile strength	kPa	DIN EN 1607	≥ 600
	Compressive modulus	N/mm2	DIN EN 826	10 - 45 *
Other Properties	Density	kg/m3	DIN EN 1602	> 30
	Thermal conductivity	W/(m .K)	DIN EN 13164	0,035 - 0,037 *
	Working temperature	°C	/	-0.666666667
	Reaction to fire	/	DIN 4102-1	B2
		/	EN 13501-1	Euroclass E
	Long-term water absorption by total immersion	Vol-%	DIN EN 12087	≤1,0
	Coefficient of linear thermal expansion	mm/(m .K)	/	0,07
	Dimensional stability under 70°C relative humidity 90 %	%	EN 1604	≤5
	Dimensional stability under 70°C temperature, 40 kPa load	%	EN 1605	≤5

* Subject to compressive strength and thickness