

INVA LITE FIXING SYSTEM DETAIL



PRODUCT OVERVIEW

The Inva Lite system is a grooved insulation board system which utilises high compressive strength extruded polystyrene, with a highly efficient aluminium foil covering. This acts as a heat conducting surface to transfer the heat from the pipes to the finished floor above.

The grooved insulation board is available in 20 and 25mm height build-ups.

The grooved insulation is suitable for wood floor coverings fitted directly and carpets with a 10mm plywood.

BENEFITS

The grooved insulation board allows underfloor heating to be installed in projects where traditional underfloor systems would either require expensive excavation or where the existing floor would need to be raised to an unacceptable level. This system is ideal for heavyweight floor coverings like ceramics, or where the floor covering needs to be secured directly to the panel, such as solid wood.

The reflective properties of the aluminium foil face means that any heat is efficiently pushed up through the sub-floor layers for maximum heat output. The nature of the system means that it has a quicker response than a traditional (screed) UFH system.

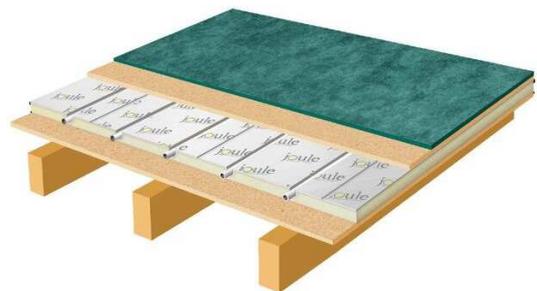
SYSTEM BUILD—UP

A polythene vapour barrier is laid on top of the concrete slab or wood floor and the panels are then laid across the whole area. Our 16mm Pert pipe is laid into the grooves and the floor finish, tongued & grooved chipboard or wood strip flooring is then laid directly over the panels, leaving a small expansion gap around the perimeter of the room.

In areas of heavy traffic, timber supports can be placed directly beneath the floor joints.

MWT	Finished Floor Covering		
	Tile/6mm Ply	Wood Floor	6mm Ply/1.5 Tog
	Floor Heat Output W/m²		
45	96.5	65.3	51.5
40	77.2	52.2	41.2
35	58	39.2	30.9

Typical heat outputs based upon BS EN 1264 Pt.



Inva Lite 25 Dimensions	1.2m * 1.2m * 0.025m
Pipe Diameter	16mm
Pipe Type	Pert
Pipe Centres	200mm
Thermal Conductivity	0.036 W/mK
Compressive Strength @ 10%	100 kPa
Inva Lite 2 Dimensions	1.25m * 0.6m * 0.02m
Pipe Diameter	16mm
Pipe Type	Pert
Pipe Centres	150mm
Thermal Conductivity	0.033 W/mK
Compressive Strength @ 10%	250 kPa

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