

**IMPROVES FLOOR HEATING EFFICIENCY
REDUCES OPERATING COSTS
EASY TO INSTALL**

Warmup Insulation Board (WIB) is made of waterproof extruded polystyrene with a fiberglass mesh embedded on each face into a cement polymer adhesive.

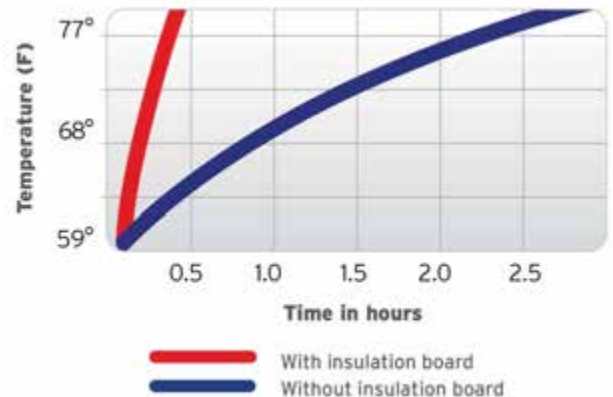
Warmup Insulation Board (WIB) is approved for installation over all subfloor types and is suitable to provide insulation under most flooring material.

Easy to cut with a knife, it installs to any surface and with its excellent load-bearing it is ideal for thinset and tiles. Free of harmful asbestos, this board poses no health or safety risks and is unaffected by the freeze/thaw cycle.



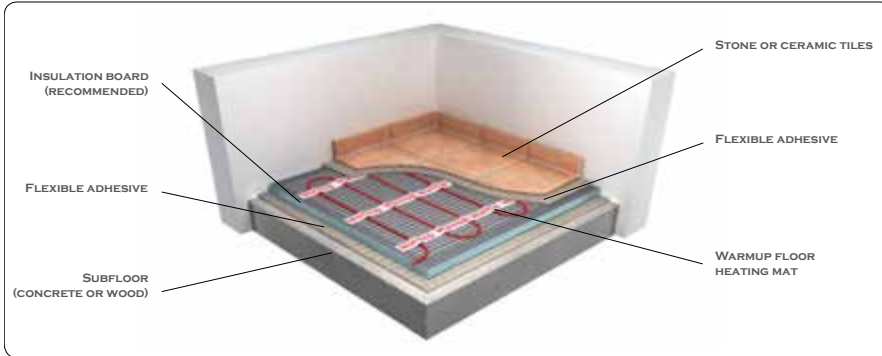
Specifications

- Meets ANSI, UBC and ASTM standards
- Compressive strength [ASTM D1621]: 36 psi or 0.40 N/mm²
- Thermal conductivity [ASTM C518] at 75°F (25°C): 0.23 BTU in/hr.F
- Tensile strength [ASTM C297]: 65 psi
- Waterproof [ASTM D4068 / ANSI A118.10-1999]: passed
- Water absorption (capillary): Nil
- R-value [ASTM C518]: 4.3 h.ft².F/Btu/in
- Flexural strength [ASTM C947]: 627 psi
- Linear coefficient of thermal expansion: 3,5 x 10⁻⁵ in/in.°F (6.3 x 10in/in °C)
- Temperature limits: -58 / +167°F (-50/75°C)
- Freeze & thaw [ASTM C666 - 25 Cycles]: No disintegration
- UL 1715 [Fire Test of interior Finish Material Passed]: flame spread <20
- Linear Variation [AC 159/ASTM 1037-39]: Passed, less than 0.074



In testing, heat-up times were reduced from over 2½ hours to just 25 minutes.

Code	Thickness	Width	Length	Weight	R value	U value
WIB	1/4" (6 mm)	2' (600 mm)	4' (1250 mm)	4.3 lb (1.95 kg)	1.08 h.ft ² .F/BTU (0.2 K.m ² /W)	0.93 BTU/(h.ft ² .F) (5 W/(m ² .K))



CONCRETE FLOORS

Existing concrete bases should be mechanically prepared removing all traces of existing finishes, contamination, etc., to expose a clean surface.

New concrete bases should be adequately cured and dried to allow shrinkage to occur prior to installing the Warmup Insulation Board.

The Warmup Insulation Board should be bedded onto the prepared base using a flexible cement-based adhesive. The adhesive mortar should be trowelled and combed through with a suitable notched trowel to give a ribbed bed, any slight depressions being filled by the mortar.

Ensure that no voids are left beneath the boards and that 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.

WOODEN FLOORS

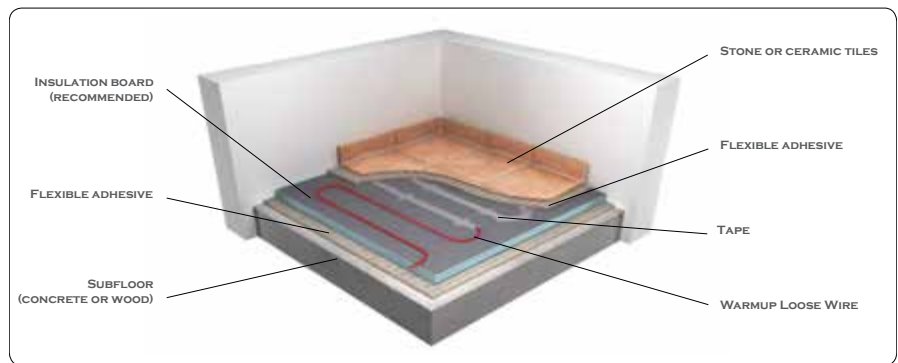
Existing floorboards should be securely and rigidly fixed.

The Warmup Insulation Board should be installed using a flexible cement-based adhesive. The adhesive mortar should be trowelled out and combed through with a recommended notched trowel to give a ribbed bed, any slight depressions being filled by the mortar.

Ensure that no voids are left beneath the boards and that 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.

When this adhesive has set but not necessarily dried, the boards should be secured using a screw and washer. These are installed at the rate of 1 per 2 sq. feet. The screws should be a minimum of 1.2" from the edge of the Warmup Insulation Board.

The screw washer is tightened into the board until the screw head is flush with the surface. If required, it may be driven flush with the board surface using a rubber headed mallet and the screw re-tightened.



TILE INSTALLATION

Tiles should be a minimum of 6" x 6" and installed using a thinset to ensure no voids are left underneath the tiles. Once the tile bed has hardened sufficiently, the joints between the tiles can be grouted using an appropriate grout mortar incorporating a flexible additive.