

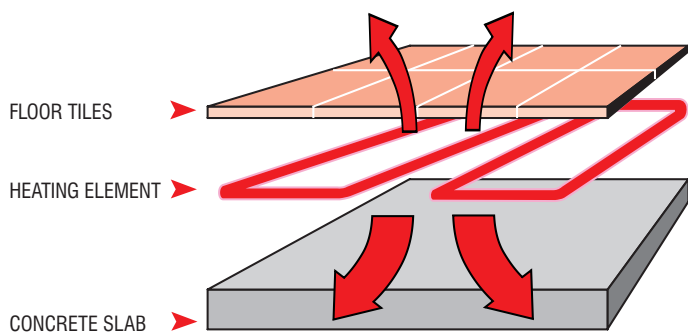
**About 50% of heat created by underfloor heaters is absorbed by the concrete slab. When Marmox boards are used, most of the heat created by the heating element is reflected upwards in the tiles**

**which will lead to:**

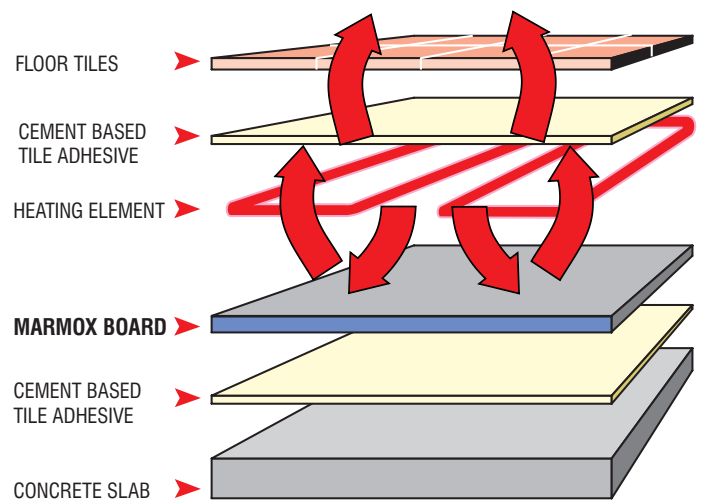
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|---|--|--|---|---|
| <p><b>1</b> 50% reduction in heat-up time</p> | <p><b>2</b> reducing energy consumption and saving on running cost</p> | <p><b>3</b> achieving higher temperatures as no energy absorbed by the concrete slab</p> | <p><b>4</b> good impact noise insulation material</p> | <p><b>5</b> waterproof membrane (with proper joint treatment)</p> |
|---|--|--|---|---|

**Marmox will act as:**

**STANDARD UNDERFLOOR HEATING**



**UNDERFLOOR HEATING WITH MARMOX BOARD INSTALLED**



**Fixing to concrete floors**

The concrete surface must be clean before applying the boards.

New concrete slab should be cured before fixing Marmox insulation boards.

Apply a bed of flexible adhesive to the concrete slab with a notched trowel, boards then to be thoroughly bedded in a staggered pattern, ensuring that no voids remain beneath them.

When the tile adhesive dry, tape all joints with fibreglass tape, then install the heating element, and tile using flexible tile adhesive.

Movement joints must not be bridged by the Marmox insulation board.

**Fixing to timber floors**

Timber floors must be rigid, checked for flatness.

The floor must be dry. Apply suitable tile adhesive layer with notched trowel. Boards then laid in a staggered pattern, fully bedded to ensure no voids remain under the boards.

When the adhesive dries apply fibreglass tape to the joints.

Secure the boards with screws and washers. Use 15 screws per board with min. 30 mm from the edge. Then instal the heating element and tile using flexible tile adhesive.