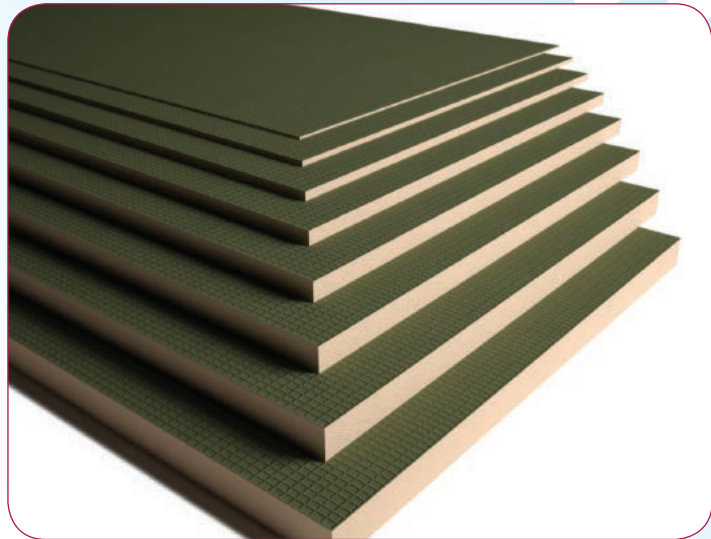


# PRO BOARD

## High Performance Thermal Construction Board

- Energy saving
- Class '0' Fire Rating for Surface Spread of Flame BS476, Parts 6 & 7
- Tile ready surface
- Underfloor heating
- High compressive strength & impact resistance
- Excellent thermal insulation properties



High performance construction/tile backer boards manufactured from high density polystyrene which is coated with a specially formulated reinforced cementitious coating that provides a hard wearing, robust, waterproof surface perfect for the application of tiles/plaster and synthetic render. Its rigidity and stability mean that a 10mm thick board is sufficient to replace the more conventional 15-18mm thick plywood required as per BS 5385:3 to overlay timber floors prior to tiling. The 10mm board will support a maximum weight of 85kg/m<sup>2</sup> when used on walls.

<b>Compressive Strength (10% Compression)</b>	300 kpa
<b>Thermal Conductivity to BS EN 13164 (5 years)</b>	0.033 W/Mk
<b>Water Absorption by Volume tested to BS EN 12087</b>	0.6%
<b>Density (foam core only)</b>	36kg/m <sup>3</sup>
<b>Temperature Range</b>	-50°C to +75°C
<b>Fire Performance</b>	Class 0 (BS 476 parts 6 & 7 Surface spread of flame)

Product ID	Thickness	Board Size	Weight	U-Value
NR06MMPROBRD001	6mm	600mm x 1200mm	2.35kg	6.6w/m <sup>2</sup> k
NR10MMPROBRD001	10mm	600mm x 1200mm	2.37kg	3.66w/m <sup>2</sup> k
NRB0030BOARD001	12.5mm	600mm x 1200mm	2.42kg	2.86w/m <sup>2</sup> k
NRB0040BOARD001	20mm	600mm x 1200mm	2.59kg	1.74w/m <sup>2</sup> k
NRB0050BOARD001	30mm	600mm x 1200mm	2.81kg	1.14w/m <sup>2</sup> k
NRB0060BOARD001	40mm	600mm x 1200mm	3.03kg	0.85w/m <sup>2</sup> k
NRB0070BOARD001	50mm	600mm x 1200mm	3.25kg	0.67w/m <sup>2</sup> k
NRB0080BOARD001	60mm	600mm x 1200mm	3.47kg	0.56w/m <sup>2</sup> k
NRB0090BOARD001	70mm	600mm x 1200mm	3.69kg	0.48w/m <sup>2</sup> k



### CONCRETE FLOORS WITH ADHESIVE

Allow the concrete to dry. Remove all traces of dust/laitance before priming with Norcross Prime Bond diluted 1:4 with water & allow to dry. Apply Norcross Rapid Porcelain Grey adhesive using an 8mm square notched trowel to form a level base. Press the boards firmly into the adhesive ribs within the open time of the adhesive (generally 20-30 minutes depending upon temperature). Allow the adhesive to dry. The boards should be laid with staggered joints. Use a straightedge and level to ensure good alignment. Lightly butt the boards together leaving a 5mm gap around the perimeter of the room. In wet areas, all joints should be taped and sealed using Norcross Butyl Waterproof Tape. Tiles may be fixed using either, Norcross Rapid Porcelain Grey; Norcross Rapid Porcelain & Stone White; Norcross Thick Bed Stone & Porcelain.

### TIMBER FLOORS WITH ADHESIVE

Existing boards must be a minimum 15-18mm WBP/Marine grade plywood or 22mm unwaxed flooring grade chipboard. Plywood should be primed with undiluted Norcross Prime Bond. Allow to dry. Apply Norcross Rapid Porcelain Grey adhesive using an 8mm square notched trowel to form a level base. Press the boards firmly into the adhesive ribs within the open time of the adhesive (generally 20-30 minutes depending upon temperature). Allow the adhesive to dry. The boards should be laid with staggered joints. Use a straightedge and level to ensure good alignment. Lightly butt the boards together leaving a 5mm gap around the perimeter of the room. In wet areas, all joints should be taped and sealed using Norcross Butyl Waterproof Tape. Tiles may be fixed using either, Norcross Rapid Porcelain Grey; Norcross Rapid Porcelain & Stone White; Norcross Thick Bed Stone & Porcelain.

### CONCRETE & TIMBER FLOORS WITH MECHANICAL FIXINGS (MINIMUM 10MM BOARDS)

It is essential to ensure that the floor is level before proceeding with this method. The board should be fixed with suitable zinc or galvanised screw fixings and galvanised 35mm fixing washers under the screw head at a rate of 12 fixings per board. Fixings should be approximately 30mm from the edge of the board and placed at 300mm-400mm centres over the board surface. In steam rooms, stainless steel fixings should be used.

N.B. It is important that there are no electrical cables or pipe work under the floor that could be damaged by the screw fixings. The correct screw length should be used. Tiles may be fixed using either, Norcross Rapid Porcelain Grey; Norcross Rapid Porcelain & Stone White; Norcross Thick Bed Stone & Porcelain.

### UNDERTILE HEATING

The heating mat/cables should be laid onto the boards in accordance with the manufacturers recommendations. It is advisable to encapsulate the heating cables using either Norcross Pro 50 or Norcross 2-Part Levelling Compound to protect them from damage. Tiles may be fixed using either, Norcross Rapid Porcelain Grey; Norcross Rapid Porcelain & Stone White; Norcross Thick Bed Stone & Porcelain.

### BRICK/BLOCK SURFACES

The existing wall surface must be in sound condition, clean, dry and dust free. Prime with Norcross Prime Bond diluted 1:4 with water and allow to dry. A solid bed of Norcross Rapid Porcelain Grey Adhesive should be applied to the board edges with centre dots at maximum 300mm centres. Offer up the board vertically and bed firmly into place. For a waterproof finish, seal the edges with Norcross Silicone Sealant before butting up the next board. The addition of suitable zinc or galvanised mechanical fixings is recommended once the adhesive has set (stainless steel fixings should be used in steam rooms). The mechanical fasteners should be positioned around the perimeter of the boards at maximum 600mm centres. Once the adhesive has dried, cover the joints with Norcross Pro Board Tape. Tiles can then be fixed directly using Norcross One Part Flexible Adhesive.

### STUD PARTITIONS

All board edges must be supported by timber noggings and must be fixed using screws and 35mm washers at approximately 300-400mm centres, at a rate of 12 fixings per board. The length of the fixings must suit the thickness of the board. In wet areas, all joints between boards should be taped and sealed using Norcross Butyl Waterproof Tape. Tiles may be fixed directly onto the board using Norcross One Part Flexible Adhesive.

### PLASTERING

Prior to applying a skim coat of plaster, the surface of the board must be primed using undiluted Norcross Prime Bond.

### NOTE

Norcross Pro Board can be affected by atmospheric conditions which can cause them to warp slightly prior to installation. If this occurs they can be straightened by applying minimal hand pressure. This correction will not affect the performance of the boards. All information is given as guidance and if adhered to will perform as intended. The boards are fully guaranteed but as we do not have knowledge of site conditions and capability of the installer, we cannot accept liability for damage which may arise as a result of installation.

### TECHNICAL ADVICE

For advice on tile installation products call the Technical Helpline on 01782 524140.

Further information may also be obtained from the Norcross 'How to' sheets available on the website.