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**Technical Data**

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## **XPS Insulation 20mm Insulation Board 1200x600mm**

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NoMorePly Insulation Backing Boards are made of high-performance waterproof extruded polystyrene, there is approx. 1mm of coating on either side comprising a glass fibre mesh embedded in a polymer-cement mortar.

### **Technical Data**

| <b>Specification</b>                    |                                       |
|-----------------------------------------|---------------------------------------|
| Board Weight                            | 2kg                                   |
| Tolerance                               | +/- 2%                                |
| <b>Properties of the Foam Component</b> |                                       |
| Density                                 | 140 kg/m <sup>3</sup>                 |
| Thermal Conductivity                    | 0.034 W/mK                            |
| Compressive Strength                    | Minimum of 0.3N/mm <sup>2</sup>       |
| Flexural Strength                       | 0.30 ± 0.02 MPa                       |
| Water Absorption (2-day immersion)      | 0.2% by volume                        |
| Water Absorption (Capillary)            | Zero                                  |
| Coefficient of linear expansion         | 70 x 10 <sup>-6</sup> K <sup>-1</sup> |
| Water Vapour Diffusion Resistivity (μ)  | 110 - 225 μ                           |
| Water Vapour Permeability               | 0.028 ng/Pa.m.s                       |
| EU controlled substances content        | None                                  |

## Technical Data

## XPS Insulation 20mm Insulation Board 1200x600mm

### Technical Data Continued

| Properties of the Cement Coating |                                       |
|----------------------------------|---------------------------------------|
| Thermal Conductivity             | 0.034 W/mK                            |
| Compressive Strength             | Minimum of 0.3N/mm <sup>2</sup>       |
| Bond Strength                    | 0.3N/mm <sup>2</sup>                  |
| Maximum Tile Loading Weight      | 62kg/m <sup>2</sup>                   |
| Flexural Strength                | 0.30 ± 0.02 MPa                       |
| Water Vapour Permeability (Sd)   | 3.2m                                  |
| Resistance to body impact        | 3 x 120N/m                            |
| Bending Stiffness, E(20mm)       | 601KNmm <sup>2</sup>                  |
| Coefficient of linear expansion  | 30 x 10 <sup>-6</sup> K <sup>-1</sup> |
| Flammability                     | Class E                               |
| Impact Sound Reduction           | dLw = 21                              |
| Shear Bond Strength              | 3.32kg/cm <sup>2</sup>                |
| EU Controlled Substances Content | None                                  |

| Thermal Insulation Values |                           |
|---------------------------|---------------------------|
| R Value                   | 0.60 W/mK                 |
| U Value                   | 1.67 W/m <sup>2</sup> x K |
| Ad Rated value            | 0.034                     |