



# TILE BACKER BOARD

## DATA & TEST SHEET

### Product Description

The main component of Tile backer boards is a high density, expanded polystyrene hard foam with flame retardant additive. Hard foam is manufactured in an environmentally friendly process without CFC's or HCFC's. Standard Board is coated on both sides with a glass-fibre mesh reinforced polymer-cement coating.

Property	Rating	Assessed in Accordance With
Density (kg/m3)	34.4 (Avg)	DIN 53420
Compressive Strength	30 t/m2	DIN 52612
Bending Strength (k/pa)	350	
Thermal Conductivity (w/mk)	.027	DIN 52612
Dimensional Stability @23 °C/50% RH	DS (N) 2	
Dimensional Stability @23 °C/90% RH	DS (23,90) 1	
Water Absorption Capillary	0	DIN 53428
Water Absorption by Immersion	0.1% (Vol)	ISO 2896
Combustibility (Board)	B1	DN 4102
Tile Loading Weight (Board)	50kg/m <sup>2</sup>	
Water Permeability – Tested at 10 bar (Xmm of Cement)	1000	DIN 1048
Capillary Absorption Kg x m <sup>2</sup> x h0.5	0.073	BS EN 1062-3

### ENVIRONMENTAL SAFETY & BIOLOGICAL FACTORS

Hard foam is not affected by bacteria, moulds or fungi and will not provide nutrient value for insects or vermin. It is non-toxic, non-irritant and odourless and has a Global Warming Potential (GWP) of zero and an Ozone Depletion Potential (ODP) of zero.

### THERMAL INSULATION

Hard Foam is a closed cell material with excellent stable thermal properties based on entrapped air. It has a thermal conductivity of 0.031 w/mk.

### MOISTURE RESISTANCE

Hard Foam is non-hygroscopic and is therefore moisture resistant whilst retaining its thermal properties.

### DURABILITY

Hard Foam is rot proof and durable and will remain effective as an insolent for the life of the construction (when installed as recommended).

### COMBUSTIBILITY

Hard Foam is manufactured with a flame retardant additive and when combined with the glass-fibre mesh reinforced polymer-cement coating will achieve a Euroclass B rating.