

## TECHNICAL DATA SHEET

Product: Alreflex Full Fill  
Issue Number: 001  
Issue Date: July 2017

### Product Information

#### **Description**

Alreflex Full Fill is a rigid, graphite-injected, expanded polystyrene board; laminated with a single layer of polythene bubble sheet, faced with low-emissive aluminium foil protected by a thin NC coating. Alreflex Full Fill has square edge joints which should be sealed with Alreflex Breathable Tape to create a cavity rain barrier.

#### **Application**

For use in walls as a cavity wall insulation and cavity rain barrier (*BBA Certificate No. 93/2861*).

#### **Appearance & Packaging**

Supplied in boards, stock sizes (*other sizes available on request*):

0.45m x 1.2m

#### **Physical Properties**

Thickness	: 40mm – 150mm	( <i>other sizes available on request</i> )
Density	: 13 – 15 kg/m <sup>3</sup>	( <i>BS EN 13163</i> )
Bending Strength	: 100 kPa	( <i>BS EN 13163</i> )
Compressive Strength	: 13 kPa (@ 1% compression)	( <i>BS EN 13163</i> )
Compressive Stress	: 60 kPa (@ 10% deformation)	( <i>BS EN 13163</i> )
Water Vapour Resistance of bubble/foil	: 125MN · s/g	( <i>BBA Certificate No. 93/2861</i> )
Water Vapour Resistance of EPS	: 60MN · s/g	( <i>BBA Certificate No. 93/2861</i> )
Water Vapour Permeability of EPS	: 0.018 – 0.036 mg/Pa · h · m	
Vapour Diffusion Factor (μ)	: 20 – 40	( <i>BS EN 13163</i> )

If you require any further technical information please contact our Technical Department on 01582 544255.

## **Thermal Performance**

Foil Emissivity	: 0.03	(BBA Certificate No. 93/2861)
Resistance of 10mm residual cavity	: $0.38\text{m}^2 \cdot \text{K/W}$	(BBA Certificate No. 93/2861)
Resistance of bubble/foil	: $0.10\text{m}^2 \cdot \text{K/W}$	(BBA Certificate No. 93/2861)
Thermal Conductivity of EPS ( $\lambda$ )	: $0.030 \text{ W/m} \cdot \text{K}$	(BS EN 13163)

## **Environmental Data**

BRE Green Guide Rating	: A+
Global Warming Potential	: < 5
Ozone Depletion Potential	: 0