

TECHNICAL DATA SHEET

Product: Alreflex Platinum
Issue Number: 017
Issue Date: May 2025

Product Information

Description

Alreflex Platinum 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 Platinum incorporates unique, lapped joints to prevent rain ingress.

Application

For use in masonry walls and steel frame walls as a partial-fill 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

| | | |
|--|-------------------------------|---|
| Standard Thickness | : 50mm, 75mm & 100mm | (<i>other sizes available on request</i>) |
| Density | : 13 – 15 kg/m ³ | (<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 | : 150MN · 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 | : 0.05 | (BBA Certificate No. 93/2861) |
| Resistance of (min) 20mm residual cavity | : $0.67\text{m}^2 \cdot \text{K/W}$ | (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 (λ) | : $0.030 \text{ W/m} \cdot \text{K}$ | (BS EN 13163) |

Environmental Data

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