

# Product Datasheet

## Alumasc Extruded Polystyrene

Sheet No: PD100d/FR

Issued: July 2018

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### Description

Alumasc Extruded Polystyrene is an HFC, CFC and HCFC free, extruded polystyrene insulation board, manufactured with a blowing agent with a GWP of <5, with shiplap edge profiles, grey in colour.

### Use

For use as a thermal insulation board in inverted roof assemblies (“upside-down roofs”) beneath ballast, paving, soft or hard landscapes, on structures capable of supporting the associated dead and live loads, and always in conjunction with the Alumasc Polyethylene Separator Sheet.

### Approvals

BBA Certificate Number 16/5348.

### Application

Install directly onto roof membrane, with staggered end joints and overlay with Alumasc Polyethylene Separator Sheet. Sufficient imposed load must be installed (in the form of stone ballast, pavements or green roof build-up) to counteract the maximum local wind uplift force and flotation. The boards can be cut with a fine-toothed saw.

### Fire Rating

Nominal F.AA to BS 476 Pt 3: 1958 - External fire exposure to roofs, when used as a ballasted or paved system.

### Product Data

Available thicknesses (1250 x 600mm)	50, 80, 100, 120, 140, 160, 180mm, 200, 205mm
Weight	34 kg/m <sup>3</sup>

### Performance Data

Thermal Conductivity (design ‘k’ value) 50mm 80mm 100-205mm	0.031 W/m <sup>°C</sup> 0.032 W/m <sup>°C</sup> 0.033 W/m <sup>°C</sup>
Compressive Strength @ 10%	300 kN/m <sup>2</sup>
Maximum Design Load	130 kN/m <sup>2</sup>
Vapour Resistivity	600MNs/g/m
Moisture Absorption (EN 12087)	0.6 %
Fire classification (BS EN 13164)	E
Ozone Depletion Potential (ODP)	Zero
Global Warming Potential (GWP)	<5
BREEAM Rating	A+
BREEAM Mat 6	Will contribute to the <i>Responsible Sourcing</i> credit (Certificate No EMS 547690)

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### Storage

Store in a clean, dry location, away from heat sources. Do not leave exposed to direct sunlight.

### Health & Safety

Safety Data Sheets are available upon request, and can also be downloaded directly from [www.alumascroofing.co.uk](http://www.alumascroofing.co.uk)

### Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: [technical@alumascroofing.com](mailto:technical@alumascroofing.com)

The company pursues a policy of constant product development and information contained in this publication is therefore subject to change without notice. The customer is responsible for ensuring that each product is fit for its intended purpose and that the conditions for use are suitable. All quoted data is nominal and subject to production tolerances.