



July 2010

## Polyfoam® Slimline Membrane

### For protected membrane flat roofs

#### Description

Polyfoam Slimline Membrane is a high performance, non-woven polyethylene geotextile membrane that acts to resist the passage of water, but is vapour permeable. It is used in combination with Polyfoam Roofboard as part of the Polyfoam Slimline System for protected membrane roofing.

Length	Width	Area per roll
(mm)	(mm)	(m <sup>2</sup> )
100	1.50	150

All dimensions are nominal.

#### Performance

##### Thermal

The use of Polyfoam Slimline Membrane improves the thermal performance of protected membrane flat roofs by reducing the amount of rainwater flowing between the insulation and the waterproofing membrane.

#### Benefits

- Improves the thermal performance of protected membrane flat roofs
- Waterproof but vapour permeable
- Enables thinner insulation and less ballast to be used with no loss of performance



## Polyfoam® Slimline Membrane

### Application

Polyfoam Slimline Membrane is for use as a separating and filtration layer in low moisture impact protected membrane flat roofs. The water resistant properties of the Polyfoam Slimline Membrane result in it reducing the flow of water through the roof construction. This means that the normal impact on thermal performance by rainwater cooling is negated compared with using a standard filtration membrane. This has been confirmed in tests carried out by the British Board of Agrément, as part of the third party certification of the Polyfoam Slimline System. As the Polyfoam Slimline membrane is vapour permeable, moisture does not become trapped in the insulation layer, but can evaporate up through the Polyfoam Slimline membrane. The use of the Polyfoam Slimline Membrane offers superior thermal performance – so by using the same thickness of Polyfoam Roofboard you can achieve superior U-values. Protected membrane flat roofs using the Polyfoam Slimline system are lighter as less ballast is required. This is due to a vastly reduced floatation impact as more drainage occurs above the insulation rather than below it.

### Standards

Polyfoam Slimline Membrane is manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001.

### Environmental

Polyfoam Slimline Membrane is free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture and content and represents no known threat to the environment.

### Moisture resistance

Polyfoam Slimline Membrane acts to resist the passage of water. Full performance data is outlined in the table.

### Handling and storage

Polyfoam Slimline Membrane is easy to handle and can be cut with a knife or scissors. Polyfoam Slimline Membrane is supplied in rolls in polythene packaging, labelled with identifying product and manufacturing data. Polyfoam Slimline Membrane may be stored flat or upright on a clean, level surface and should be kept under cover.

### Data for Polyfoam Slimline membrane

Property	Test method	Unit	Data
Weight	-	g/m <sup>2</sup>	95
Tensile strength in MD	EN 12311 - 1	N/5 cm	185
Tensile strength in CD	EN 12311 - 1	N/5 cm	130
Nail tear resistance 20cm folded MD/CD	EN12310 0 1 prEN 13859	N/20 cm	55
		N/20 cm	65
Water resistance	EN 20811	m of water head	1.5
Water vapour transmission (23°C/85% humidity)	Lyssy	g/m <sup>2</sup> .d	1200
UV stability under constant exposure	prEN 1297	-	up to 4 months

Ref: PD136210

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