

SarnaTherm XPS

Extruded Polystyrene Thermal Insulation Board

Product Description SarnaTherm XPS is a rigid unfaced insulation board, manufactured from extruded polystyrene in accordance with BS EN 13164: 2008. SarnaTherm XPS is a cellular plastic insulant, extruded to create a rigid closed cell structure, is CFC & HCFC free and has a typical density of 30kg/m³.

Uses Thermal insulation as part of an Inverted roof construction, laid over the waterproofing layer, in the following roofing systems:

- Sarnafil® G410 or G476 loose laid membrane systems with ballast or green roofs
- Sarnafil® TCG loose laid membrane systems with ballast or green roofs

Characteristics / Advantages

- Very low thermal conductivity
- CFC/HCFC-free with zero Ozone Depletion Potential (ODP)
- Ideal for new construction and refurbishment
- No separation layer required when laid over the membrane
- High compression strength
- Lightweight and low load on the roofing structure
- Withstands freeze/thaw cycling
- Closed cell structure minimises water absorption

Product Data

Length 1250mm

Width 600mm

Thickness Ranging from 50-160mm thick boards

Compressive strength Typically >300-500 kPa at 10% deformation BS EN 826:1996

Fire performance Roofs incorporating SarnaTherm XPS typically achieve Ext. FAA with minimum 50mm gravel ballast finishes. BS 476: Part 7: 1997

Thermal conductivity 0.029 W/m²K (insulation thicknesses ≤ 120mm) BS EN 13164: 2008
0.031 W/m²K (insulation thicknesses > 120mm)

Storage

Roofing



Storage Conditions	<p>The packaging of SarnaTherm XPS shall not be considered adequate for long term outside protection from sunlight. Ideally, boards shall be stored inside a building. If however, outside storage cannot be avoided the boards shall be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin.</p> <p>SarnaTherm XPS should not be left in the sun covered by either a transparent or dark polythene sheet, since in both cases board temperatures can build up to a level hot enough to appreciably alter their dimensions or warp them.</p>
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System Information

System Structure	<p>Ancillary products and system components according to local price list.</p> <p>Roof waterproofing single ply membranes:</p> <ul style="list-style-type: none">■ Sarnafil® G410, G476 & TCG <p>Fasteners and fixings:</p> <ul style="list-style-type: none">■ Sarnafil® fixing range <p>Vapour control layers:</p> <ul style="list-style-type: none">■ Sarnavap® range
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Application Details

Substrate Quality	<p>The substrate surface must be uniform, smooth and free of any sharp protrusions or burrs, etc. It shall be clean, dry and free of grease and dust.</p>
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Application Conditions / Limits

Temperature	<p>Limited to appropriate roof waterproofing membrane system temperature limitations. Please observe information given by Product Data Sheets.</p>
Compatibility	<p>SarnaTherm XPS is compatible when laid over Sarnafil® PVC and FPO single ply membranes in an Inverted application and therefore no separation layer is required. However, additional protection layers may be required.</p>

Installation Instructions

Installation Method / Tools

Installation procedure:

SarnaTherm XPS shall be laid in Inverted roofs over the waterproofing layer (or protection layer where applicable) loose laid as follows -

Loose Laid Method:

The insulation is to be laid loose, with boards lightly butt jointed and level.

The specified ballast should be installed as soon as possible, once the protective layer is laid. Until the ballast is laid, the loose laid insulation will be vulnerable to wind uplift forces. If it is necessary to delay ballasting the roof, then temporary ballast, such as bagged gravel or sand, should be strategically placed across the completed roof areas.

Project specific fixing details must be ascertained from the latest Sarnafil project specification.

Notes on Installation / Limits

Installation works to be carried out only by Registered Sarnafil® Contractors. Temperature limits will depend on waterproofing membrane installation limits. Use of some ancillary products, e.g. adhesives is limited to temperatures above +5°C. Please observe information given by Product Data Sheets.

Roofing

Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
Ecology, Health and Safety Information	The product does not fall within the EU-regulation of hazardous goods. As a result, a material safety data sheet following EU-Guideline 91/155 EWG is not needed to bring the product to the market, transport or use it. The product does not damage the environment when used as specified.
Protective Measures	Regulatory Safety requirements must be observed.
Disposal	The material is recyclable. Any disposal must be in accordance with regulatory guidelines.
Transportation Class	The product is not classified as hazardous good for transport.

All data in our product information are based on our current knowledge and experience. They do not release users from careful testing of the application and strict observation of the relevant processing regulations because of the wide range of possible influences during the application and use of our products. Legally valid assurances of specific characteristics or suitability for special purposes of application other than those provided in our documentation for the specific product cannot be inferred from our information. Any protective rights or existing laws and provisions must be followed by the recipient or processor of our products at their own responsibility. Moreover our general terms and conditions of sale and guarantee are valid.



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