



ShieldBOARD XPS Insulation

Description

ShieldBOARD XPS is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced with rebated edges at various thicknesses. Manufactured without CFC's, HCFC's or HFC's.

Our XPS is mainly used as thermal insulation including flat and pitched roofs, floors and underground constructions. When used on in roof areas the insulation must be weighted down by finishes, often 60mm ballast, paving slabs, living or blue roof systems.

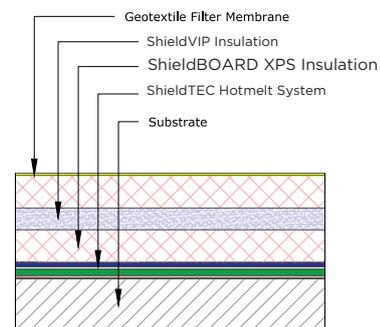
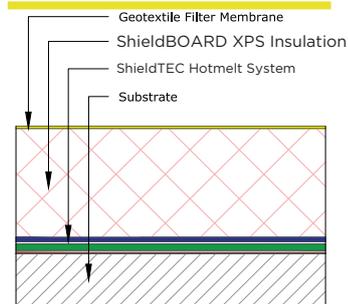
TECHNICAL INFORMATION

Thermal Conductivity (W/(m.K))	EN12667	30mm	0,032
		40-60mm	0,034
		>60mm	0,036
Thickness tolerance (mm)	EN823		+2
Length tolerance (mm)	EN822		+8
Width tolerance (mm)	EN822		+8
Flatness (mm/m)	EN825		6
Squareness (mm/m)	EN824		5
Compressive strength (KPA)	EN826		> 300
Compressive creep (KPA) max 2% deflection (50 years)	EN1606		> 95
Long-term water (VOL%) absorption by total immersion	EN12087		< 0.7
Long-term water (VOL%) absorption by diffusion	EN12088		< 3
Water absorption (VOL%) by freeze-thaw cycling	EN12091		< 1
Water vapour diffusion resistance factor (u)	EN12086		> 80
Dimensional Stability (%)	EN1604		< 5
Reaction to fire	EN13501-01		Euroclass E
Coefficient of linear thermal expansion (mm/MK)			0.07
Working temperature range (°C)			-50 to +75
Specific heat capacity (J/KGK)			1.450
Nominal density (KG/m³)	EN1602		32

Features

- Easy and safe handling.
- Long-term high compressive and mechanical strength.
- Durability equal to the service life of building within which they are incorporated.
- Recycling and re-use of ShieldBOARD XPS is feasible depending on system installed.
- Achieves Broof T4 with Loose laid gravel at least 50mm thick, a sand cement screed at least 30mm thick and cast stone or mineral slabs at least 40mm thick

Typical Details



Disclaimer

The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Shield Membranes reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice.

0207 740 9279 | www.shieldmembranes.com | info@shieldmembranes.com

“You’re protected with Shield on your side”

Whilst every care is taken to see that the information given in this literature is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded. Intending purchasers of our materials should therefore verify with the company whether any changes in our specification or application details or otherwise have taken place since this literature was issued.



SHIELD MEMBRANES

“You’re protected with Shield on your side”



NFRC
LEADING ROOFING EXCELLENCE

