

ShieldBOARD XPS HP

Description

ShieldBOARD XPS HP has been introduced specifically to meet the needs of high performance insulation. It is a closed cell type extruded polystyrene board with integral high density skin. ShieldBOARD XPS HP Inverted Roof Insulation utilises infra-red blocking particles to scatter and reflect heat radiation.

ShieldBOARD XPS HP Inverted Roof Insulation has a Zero Ozone Depletion Potential (ODP), a Global Warming Potential (GWP) of less than 5.

TECHNICAL INFORMATION

Thermal Conductivity (W/(m.k))	0.028 (including moisture correction)	BS EN 13164
Reaction to Fire:	Class E	BS EN 13501-1 2016
Thickness (mm):	70, 80, 105, 130, 145, 175, 205	
Board Size (mm):	600 x 1250	
Compressive Strength (kPa):	300 @ 10% deformation	BS EN 826
Density (kg/m ³):	34	BS EN 1602
Linear thermal expansion coefficient (mm/m.K):	0.07	
Water vapour diffusion resistance factor (vol %):	150	BS EN 10456
Edge profile:	Rebated	

Features

- High compressive strength
- Easy and safe handling
- Durability equal to the service life of building
- Suitable for inverted system applications
- Recycling and re-use of ShieldBOARD XPS is feasible depending on system installed
- Environmental friendly

Fire Performance

BS 476 Part 3: 2004 - When ballasted with aggregate (minimum depth of 50mm), or fully supported cast stone or mineral slab of at least 40mm thickness, a roof construction incorporating ShieldBOARD XPS HP may be considered to be of designation EXT.F.AA (Broof T4) and as such unrestricted by the National Building Regulations.

Installation Instructions

Apply Roof Insulation boards parallel to roof perimeter long edges. Stagger end joints.
Lay ShieldBOARD XPS HP Inverted Roof Insulation boards with edges in moderate contact without forcing.

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.

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