REDBAK BUILDING PRODUCTS (AUST.) PTY. LTD.®

Thermal Blue- XPS 300

Technical Specifications

Specifications	Properties	Unit	Standard	XPS 300 50 X 900mm Shiplap Edges	XPS 300 75 X 900mm Shiplap Edges
				Values	
Dimensions	Thickness	mm	EN 823	50.00	75.00
	Length		EN 822	2950.00	2950.00
	Width		EN 822	900.00	900.00
Tolerances	Thickness	mm	EN 823	+2.0 / -2.0	+2 / -2
	Length		EN 822	+5.0 / -0.0	+5.0 / -0.0
	Width		EN 822	+3.0 /- 0.0	+3 / -0
	Rectangularity	mm/m	EN 824	≤ 5	≤ 5
Mechanical properties	Compressive strength or compressive stress at 10 % deformation	kPa	EN 826	≥ 200 (d < 29 mm)	≥ 200 (d < 29 mm)
				≥ 300 (d ≥ 29 mm)	≥ 300 (d ≥ 29 mm)
	Tensile strength		EN 1607	≥ 600	≥ 600
	Bulk density	kg/m3	EN 1602	> 30	> 30
Characteristic values	Nominal thermal conductivity λD	W/(m·K)	EN 13164	0,034 (d ≤ 50 mm)	0,036 (d ≤ 75 mm)
	Thermal conductivity λ with gas-tight lamination on both sides		EN 13164	-	-
	Application temperature	°C	-	-50/+75	-50/+75
	Fire behaviour (Manufactured with B1 Grade Fire Retardant Additives/ Difficult to ignite)	-	EN 13501-1	Euroclass E	Euroclass E
	Water absorption on long-term immersion	Vol-%	EN 12087	≤ 1,0	≤ 1,0
	Vapour diffusion-equivalent air layer thickness	m	EN 12086	3 - 16	3 - 16
	Thermal expansion coefficient	mm/(m·K)	-	0,07	0,07
	Dimensional stability at 70 °C and 90 % relative humidity	%	EN 1604	≤ 5	≤ 5
	Deformation at 70 °C under 40 kPa pressure	%	EN 1605	≤ 5	≤ 5

	Additional Properties
Chemical resistance	Townwater / seawater / saline solutions / alcohols / liquefied inorganic gases / bases / weak and diluted acids / bitumen / water-based cold bitumen / lime / cement / gypsum / sand
Properties of XPS	Homogenous, closed cell, highly compression proof, elastic, water repellent, resistant to environmental degradation, non-ageing, non-UV resistant
Bonding technique	e.g. adhesion with solvent-free hot-melt, epoxy and polyurethane adhesives
Cutting technique	XPS can be worked with milling cutters, saws, hot wires, blades and cutters

STORAGE INFORMATION

XPS Boards can be stored outside, but should be protected against sunlight, preferably by retention in their original packaging.

The boards should not be exposed to other ignition sources.