

TECHNICAL DATA SHEET

FI XPS FOAM SPACERS EXTRUDED POLYSTYRENE (XPS) INSULATION SPACERS

Product description and typical applications

FI XPS Spacers are manufactured from high quality extruded polystyrene (XPS) to deliver exceptional dimensional stability and compressive strength. Consisting of a foam block structure, FI XPS Spacers are designed to allow glasswool bulk insulation to recover to its nominal thickness between purlins. Full recovery of bulk insulation between purlin centres is pivotal in deriving the full Material R-value of the insulation blanket. Failure to incorporate a spacer in a typical metal deck roof construction can result in up to 80% reduction of the insulations Material R-value, thus reducing the thermal efficiencies one would gain by installing insulation.

The closed cell nature of FI XPS Spacers provides excellent water resistance properties making them virtually impervious to water. The spacers are manufactured in typical lengths of 1200mm at various heights to suit the nominal heights of a range of common building blanket thicknesses.

FI XPS Spacers produce zero Ozone Depleting Potential substances and comply with all relevant Building Code Standards including Section J of the National Construction Code (NCC). Section J stipulates the requirement for insulation to recover to its intended thickness in-situ. This serves to ensure the insulation delivers the specified energy efficiency performance requirement, thus increasing the operational efficiencies of the building.

Physical characteristics

Height mm	Width mm	Length mm	Material R-value m ² K/W	Product code
25	75	1200	R0.87	335060
30	75	1200	R1.04	335061
40	75	1200	R1.39	335062
50	75	1200	R1.74	335063
75	75	1200	R2.61	335064
100	75	1200	R3.48	335065

Thermal performance

The following table provides recommendations relating to optimum FI XPS spacer heights for various Permastop® Building Blanket thicknesses.

Building Blanket Specification	Recommended FI XPS Foam Spacer
Permastop® Building Blanket with a nominal thickness of 55mm	75mm x 1200 x 25mm
Permastop® Building Blanket with a nominal thickness of 60mm	75mm x 1200 x 25mm
Permastop® Building Blanket with a nominal thickness of 75mm	75mm x 1200 x 50mm
Permastop® Building Blanket with a nominal thickness of 100mm	75mm x 1200 x 75mm
Permastop® Building Blanket with a nominal thickness of 130mm	75mm x 1200 x 100mm

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Technical Specifications

Property	Result
Nominal density	40kg/m ³
Compressive strength (at 10% deformation measured parallel to rise)	≥350 kPa
Cross directional strength	>300 kPa
Nominal thermal conductivity at 25°C	0.025 W/mk
Maximum service temperature	90°C

Green Star compliant

No ozone depleting substances are used in the manufacture or composition of FI XPS Foam Spacers. Specification of FI XPS Foam Spacers guarantees the use of ODP free insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows for the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

When specifying, state the following:

Incorporate Fletcher Insulation FI XPS Foam Spacers over Permastop® Building Blanket along the purlin line to achieve the recovered thickness of the insulation blanket.

Product name: Fletcher Insulation FI XPS Foam Spacers 75mm(w) x 1200mm (l) x _____mm (h) (specify height required i.e. 25, 30, 40, 50, 75 or 100mm).

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