

Technical Data Sheet Ravatherm XPS X MK

Product Description / Use:

Ravatherm XPS X MK is a geotextile membrane that is waterproof, but at the same time water vapour permeable. Used in conjunction with Ravatherm XPS X as a waterflow reducing layer, it minimises heat loss and can therefore reduce the volume of insulation required.

Ravatherm XPS X MK prevents rainwater from reaching the waterproofing layer, thereby reducing the rainwater cooling effect caused by rainwater flowing between the insulation and waterproofing membrane.

Benefits:

- Water vapour permeable.
- Water resistant.
- Tear resistant.
- UV stable - can be left exposed outdoors for up to four months.
- Fire - melts and shrinks away from a heat source (unclassifiable as regards to Building Regulations).
- Temperature - retains flexibility and toughness down to -73°C, melting point is 135°C.
- Excellent rot resistance making it ideal for insulating green roofs.



Technical Specification:

Properties	Method	Unit	Values
Reaction to fire	EN 11925-2	class	E*
Watertightness	EN 1928 (A)	class	W1
Sd-value	EN ISO 12572	m	0,01 (+0,015/-0,007)
Tensile force (MD)	EN 12311-1	N/5cm	310 ± 50
Elongation (MD)	EN 12311-1	%	17 ± 5
Tensile force (XD)	EN 12311-1	N/5cm	310 ± 50
Elongation (XD)	EN 12311-1	%	20 (± 6)
Nail Shank (MD)	EN 12310-1	N	55 ± 20
Nail Shank (XD)	EN 12310-1	N	50 ± 20
Flexibility at low temperature	EN 1109	°C	-40
Artificial ageing by UV and heat:			
Tensile force (MD)	EN 12311-1	%	-15
Elongation (MD)	EN 12311-1	%	-25
Tensile force (XD)	EN 12311-1	%	-15
Elongation (XD)	EN 12311-1	%	-30
Water tightness	EN 1928 (A)	class	W1

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Width of roll	Length of roll	Weight m ²	Weight of roll
1,5 m	50 m	~ 63 g/m ²	~ 5 kg
3,0 m	100 m	~ 63 g/m ²	~ 19 kg

Installation:

Ravatherm XPS X MK should be loose-laid over the insulation, at right angles to the slope with 300mm laps running down the slope. At upstands and penetrations Ravatherm XPS X MK should be turned up to finish above the surface of the ballast.

In an inverted roof system, insulation laid over the waterproofing layer must be suitably loaded to restrain it against flotation and wind uplift and to protect it against damage and long-term degradation by UV light.

Stone ballast gives a good appearance at an economical cost and should be 20-40mm nominal diameter, clean, washed and reasonably free from fines. When boards are overlaid with a suitable separating layer such as Ravatherm XPS X MK – lapped 300mm, then a minimum 50mm depth of 20/40 aggregate may be sufficient to counter flotation of the insulation. Additional ballast may, however, be needed in those areas subject to wind uplift, such as exposed perimeters and corners.

Aggregate should be replaced by paving slabs:

- to form walkways where regular foot traffic is expected
- where the kerb at the roof edge is too shallow to retain the aggregate
- at perimeters, where aggregate will not provide sufficient resistance to wind uplift or will be affected by wind scour – see BRE Digest 311.

Concrete pavers 600mm x 600mm and 50mm thick should be raised off the insulation on corner spacers to allow drainage and to avoid rocking.

Delivery Form:

Rolls.

Storage:

Material shall be stored inside in original packaging, away from direct sun light or heat sources.

Disposal:

Information for this product is given in the Safety Data Sheet.