

ProTherm

Mineral Wool

Product Data Sheet



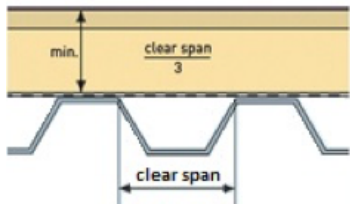
Manufactured from volcanic rock, producing a non-combustible Dual Density Mineral Wool insulation board that provided unique fire and acoustic performance.

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General Information

ProTherm Mineral Wool insulations boards are manufactured from volcanic rock, producing a non-combustible Dual Density Mineral Wool insulation board that provided unique fire and acoustic performance. Suitable for use with EshaFlex, EshaGum, EshaPlan, EshaUniversal, ReadySeal and ParaFlex roofing systems either bonded to an AluBase XL or EshaBase vapour control layer using EshaStik adhesive or mechanically fastening using appropriate ProFast fasteners and pressure plates.

ProTherm Mineral Wool is available in uniform or tapered variants. Achieves LPC LPS1181: Part 1 EXT A rating, complies with Zurich School and Academy Design guide and HTM05-03 guidance for healthcare.

Declared performance	
Thermal conductivity	λ value = 0.039 W/mK
Typical weight	150mm thick board = 28.8kg
Density	160 kg/m ³ (typical)
Water vapour resistance	Typical water vapour resistance = 5.9MNs/g
Spanning metal decks	 <ul style="list-style-type: none"> The minimum board thickness is equal to the maximum trough width divided by 3. The maximum trough width is 300mm Long edges should be at right angles to the corrugations, all board joints should be fully supported by the deck.

ProTherm Mineral Wool Characteristics						
Thickness (mm)	Length (mm)	Width (mm)	R Value (m ² k/W)	Typical U value on Metal deck (W/m ² k)	Typical U value on Concrete deck (W/m ² k)	Typical U value on Timber deck (W/m ² k)
60	1200	1000	1.54	0.59	0.57	0.55
85	1200	1000	2.18	0.43	0.42	0.41
105	1200	1000	2.69	0.35	0.34	0.34
115	1200	1000	2.95	0.32	0.32	0.31
150	1200	1000	3.85	0.25	0.25	0.24
170	1200	1000	4.36	0.22	0.22	0.22
185	1200	1000	4.74	0.20	0.20	0.20
210 (150+60)	1200	1000	5.38	0.18	0.18	0.18
235 (150+85)	1200	1000	6.03	0.16	0.16	0.16
255 (150+105)	1200	1000	6.54	0.15	0.15	0.15

This information given in good faith and is based on the latest knowledge available to Radmat Building products Ltd. Whilst every effort has been made to ensure that the contents of the publication are current while going to press, customers are advised that products, techniques and codes of practice are under constant review and liable to change without notice.

For further information on Radmat products and services please call **01858 410372**, email techenquiries@radmat.com or visit our website www.radmat.com

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Health & Safety

Chemically inert and safe to use; see Safety Data Sheet for further information.

Storage

Packs of ProTherm Mineral Wool should be completely covered with weatherproof sheeting, and stored in a flat, dry area off the ground away from possible mechanical damage and sources of ignition. Keep dry at all times and not exposed to rain. Protect from prolonged exposure to sunlight and should be stored either under cover or covered with opaque polyethylene sheets.

Handling

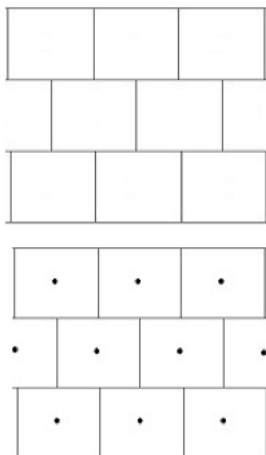
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- Do not drop boards
- To cut use a fine tooth saw
- Wear eye protection
- Damaged boards should not be used

Ensure accurate trimming to achieve close butt joints and continuity of insulation, particularly around projections through the roof.

Cutting with power tools generates dust and should be kept to a minimum. If the use of power tools is necessary it should be carried out in well ventilated conditions and a dust mask selected in accordance with BS EN 149 should be worn.

Laying pattern



Bonded

- Lay with fleece top layer up
- Bond to the vapour control layer control layer with EshaStik in accordance with the specification.
- Butt joint edges in a break bonded, staggered pattern laid at right angles to the edges of the roof or diagonally across the roof.

Mechanically Fixed

- ProTherm Mineral Wool should be mechanically fastened to the structural deck using ProFast tube washers and mechanical fasteners in accordance with the Radmat specification.
- Attach using one fastener centrally per board.
- Butt joint edges in a break bonded, staggered pattern laid at right angles to the edges of the roof or diagonally across the roof.

Installation Instructions

- Torch apply with minimum heat at all times onto the facing.
- Never apply the flame to the insulation facing.
- Consider using flame/edge guards when torching.
- In the event of any doubt, please contact Radmat Building Products.

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