

Supertherm MG



Product Data Sheet

CFC/HCFC Rigid Polyisocyanurate Insulation [PIR]

Introduction

Supertherm MG is a totally CFC/HCFC free, rigid polyisocyanurate foam insulation board, faced on both sides with perforated (mineral-coated) glass tissue. The highly efficient closed cell foam core has an exceptionally low thermal conductivity of 0.027 W/mK and easily achieves required U values with a minimum thickness.

Use

Supertherm MG is suitable for flat roofing use beneath standard and polymer modified mastic asphalt, mechanically fixed polymeric/bituminous single ply membranes, and built-up felt roofing systems. (See application section for full details).

Features and Benefits

- Totally CFC/HCFC free
- Fire-performance polyisocyanurate foam core
- Full range of thicknesses to meet appropriate Building Regulations
- Lightweight and easy to handle
- High insulation value thermal conductivity 0.027 W/mK
- Rot proof, durable and maintenance free
- Tapered / cut-to-falls boards also available

Product Technical Data

Board Size	1200mm x 1200mm and 1200mm x 600mm
Thermal Conductivity	0.027 W/mK
Compressive Strength	>150 kPa @ 10%
Density (foam core)	32 kg/m ³
Standard Thicknesses	25/40/50/60/70/75/80/90/100/120mm
Standard Tapered Thicknesses	Slope 1/60: 30/50mm 50/70mm 70/90mm & 90/110mm

NB. Other thicknesses available to order.

Durability

Correctly installed, with required maintenance to the covering roofing systems, Supertherm MG boards will last the life of the system into which they are incorporated.

Storage

Supertherm MG insulation boards are supplied wrapped in polyethylene to provide short-term protection. On site the boards should be stored clear of the ground, on a clean level surface and preferably under cover to protect them from prolonged exposure to moisture or mechanical damage.

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Resistance to Solvents

Supertherm MG insulation boards resist attack from alkalis, dilute acids, mineral oil, and petrol. The foam is not resistant to ketonic solvents. Boards that have been in contact with harsh solvents, petrol, mineral oil, or acids, should not be used.

Application

Insulation Application

Roofing insulation boards should be installed in accordance with BS 8217: 2005, Code of Practice for Reinforced bitumen membranes, BS 8218: 1998 Code of Practice for mastic asphalt roofing, BS 8000 Part 4 and to Ruberoid Engineered Roofing Systems specifications. Insulation boards should be laid in hot bitumen (optimum temperature 240°C), mechanically fixed or bonded with suitable cold adhesives, in accordance with Ruberoid fixing instructions. Always use a suitable vapour control layer. Board joints should be staggered wherever practical. Tapered schemes should be laid strictly in accordance with the layout drawings provided. All boards should be tightly butted to avoid gaps. Once laid, insulation boards should be covered immediately with the waterproofing system.

Waterproofing Installation

Care should be taken to ensure insulation boards are clean and dry, prior to the application of waterproofing systems. Day joints must be made at the conclusion of each section of work, to seal exposed edges of the insulation board and prevent moisture ingress. Appropriate stop battens should be fixed to protect open edges or support the insulation on sloping roofs.

Reinforced Bitumen Membranes – when fixed in the hot bitumen, bituminous membranes should be partially bonded to Supertherm MG, preferably with the use of a Perforated Type 3G Underlay. Torch applied or self-adhesive systems should be installed with proprietary layers fixed in accordance with Ruberoid specifications. When used on sloping roofs, Supertherm MG must be overlaid with a suitable preparation layer (e.g. cork, fibreboard, Protectoboard, etc.) to allow the membrane to be fully bonded.

Mastic Asphalt (including polymer modified) – Supertherm MG must be overlaid with loose laid sheathing felt prior to the application of asphalt.

Mechanically Fixed Membranes – suitable mechanically fixed polymeric and bituminous membranes can be used with Supertherm MG. Membranes must be fixed through the insulation into the substrate, in accordance with the specification provided.

PU Adhesive Bonded Membranes – suitable polymeric and bituminous membranes can be fully or partially bonded to Supertherm MG, in accordance with the specification provided.

Whilst every care is taken to see that the information given in this literature is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded. Intending purchasers of our materials should therefore verify with the company whether any changes in our specification or application details or otherwise have taken place since this literature was issued.

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