

September 2015

TECHNICAL DATASHEET

HYTHERM FM

High performance rigid PIR insulation for warm roofs (flat board or tapered)

HYTHERM FM is a high performance board used in warm roofs mechanically fixed, single-ply membrane systems.

The board comprises a rigid polyisocyanurate (PIR), core faced on both sides with a gas tight multilayer composite aluminium foil facing.

It benefits from high compression strength, suitable for loads imposed on roofing systems by maintenance traffic, and excellent dimensional stability meaning that the board has the flat surface finish required to ensure excellent performance.



Features

- Manufactured using a blowing agent with zero ODP (Ozone Depletion Potential) and low GWP (Global Warming Potential) rating (below 5)
- manufactured in accordance with ISO 14001 and ISO 9001
- enhanced thermal performance due to low thermal conductivity value (0.022 W/mK)
- high compression strength
- will not degrade or deteriorate if exposed to moisture
- has Class 1 fire performance in accordance with BS 476 (Part 7)
- achieves 'A' rating in BRE Green Guide 2008 under element number 815320017
- easy handling and installation
- available in a range of thicknesses from 25mm – 150mm
- board size: 2400mm x 1200mm

Technical Data – Hytherm FM

Thermal conductivity	0.022 W/mK
Compression strength	Exceeds 150 kPa at yield
Moisture vapour resistance	Installed value of 100 MNs/g
Specific heat capacity	1.4kJ/kgK
Fire performance	Class 1 BS 476 (Part 7)
Dimensions	2400mm (l) x 1200mm (w) Also available as tapered insulation board
Facing	Multilayer coated aluminium on both sides

Thermal Resistance

Product code	Thickness (mm)	R value (m ² K/W)
RC-FM/25	25	1.14
RC-FM/40	40	1.82
RC-FM/50	50	2.27
RC-FM/60	60	2.70
RC-FM/70	70	3.15
RC-FM/80	80	3.60
RC-FM/90	90	4.05
RC-FM/100	100	4.50
RC-FM/110	110	5.00
RC-FM/120	120	5.45
RC-FM/130	130	5.91
RC-FM/140	140	6.36
RC-FM/150	150	6.82

Typical U-values

U-values will vary depending on application and are available on request.

Installation

All products must be installed in accordance with instructions issued by the manufacturer. For further details contact Axter Ltd.

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