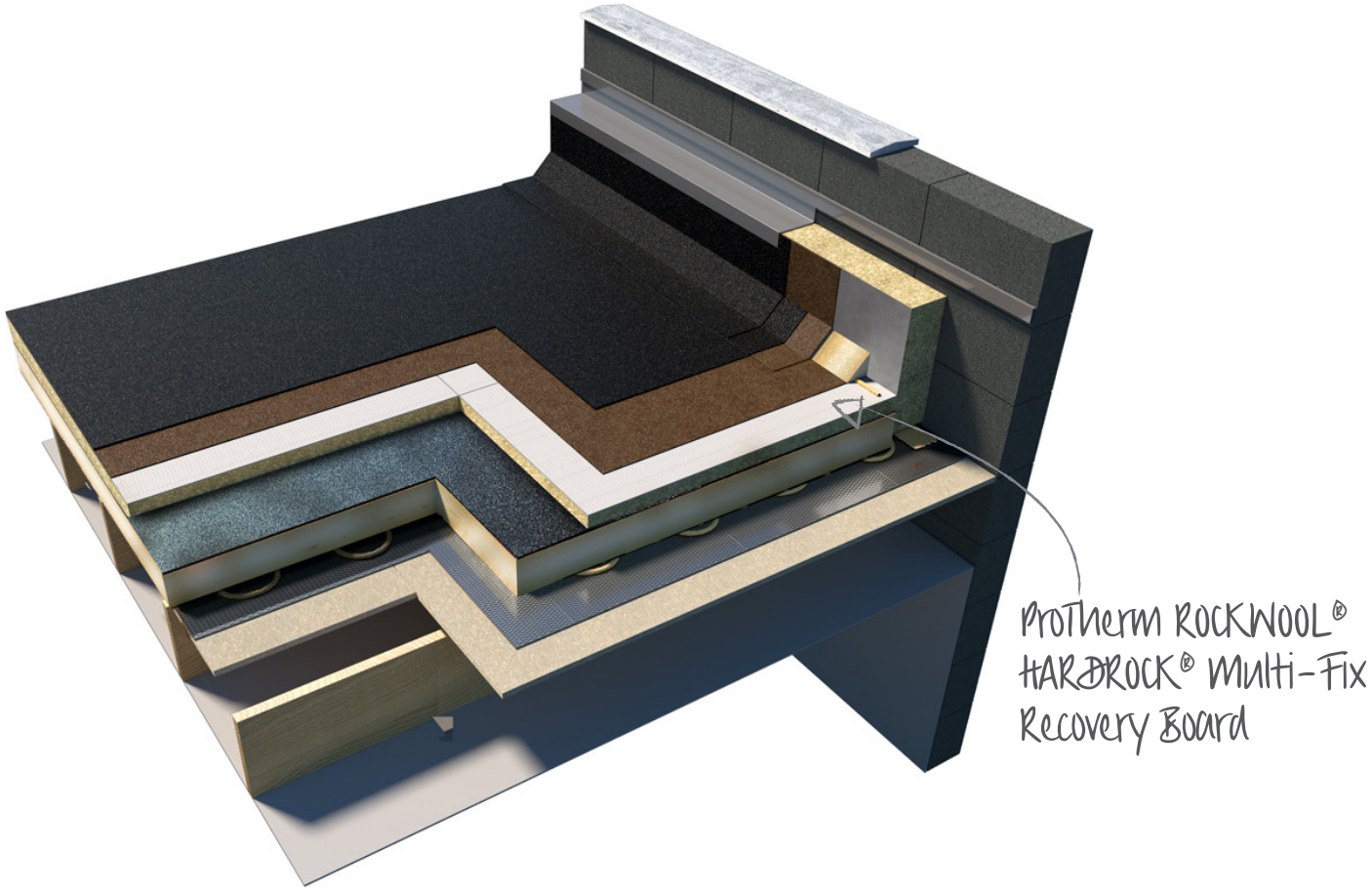
Radmat® building products

Specialists in Roofing and Waterproofing

ProTherm ROCKWOOL®
HARDROCK® Multi-Fix Recovery Board

Product Data Sheet



A Non-Combustible Recovery Board specifically developed for use on flat roof refurbishment projects.

Author: LA	Reviewer: AT	Approver: NT	Previous Revision: 01/08/2021 v0	Latest Revision: 28/01/2025 v0

A2 FIRE TESTED

ProTherm ROCKWOOL®
HARDROCK® Multi-Fix Recovery Board

General Information

ProTherm ROCKWOOL® HARDROCK® Multi-Fix Recovery Board insulations boards are manufactured from volcanic rock, producing a noncombustible 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 air and vapour control layer using EshaStik or Insta Stik adhesive, or mechanically fastened.

ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) 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.

Suitable Applications

ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) is suitable for use in warm roof applications, including those where the client requires a 'non-combustible' insulation board within the roof construction. When used in the warm roof applications listed in the Fire Performance section below roof assemblies incorporating ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) achieve Broof(t4) Classification to BS EN 13501-5 as required by Approved Document B 2019 edition, Section B4, Limitations on roof coverings. ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) is not suitable for use in roof terraces, enclosed balconies over heated space and insulated walkways or in an inverted roof construction.

ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) is not suitable for use in inverted roof applications on specified attachments such as projecting open balconies, projecting enclosed balconies, recessed open balconies or recessed enclosed balconies.

Certificates

ISO 9001:2008 Quality Management System, ISO 14001:2004 Environmental Management System and BBA Certificate No. 21/5878.

Fire Performance

As a warm roofing system

BS EN 13501-5:2016 - When tested as part of a two layer EshaFlex Reinforced Bitumen Membrane (RBM) consisting of EshaFlex 370 FireSafe, EshaFlex 370 Plain, ProTherm ROCKWOOL HARDROCK Multi-Fix (DD), AluBase XL on a plywood deck the roofing system is classified as Broof(t4) in any thickness – see Warrington Fire EXAP Report 20553Q.

BS 476 Part 3:2004 - When tested as part of a two layer EshaFlex Reinforced Bitumen Membrane (RBM) consisting of EshaFlex 370 FireSafe, EshaFlex 370 Plain, ProTherm ROCKWOOL HARDROCK Multi-Fix (DD), AluBase XL on a plywood deck the roofing system is classified as achieving EXT.F.A.B in any thickness – see Warrington Fire EXAP Report 20553N.

BS EN 13501-1:2016 – ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) achieves Euro Class A2, s1-d0.

Delivery conditions

Delivery form

Shrunk wrapped on a pallet, quantity depending on board thickness.
Storage and transport

Product identification

Information on the pack;
Product name. Dimensions. Approvals. Production date.

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Acoustic Performance

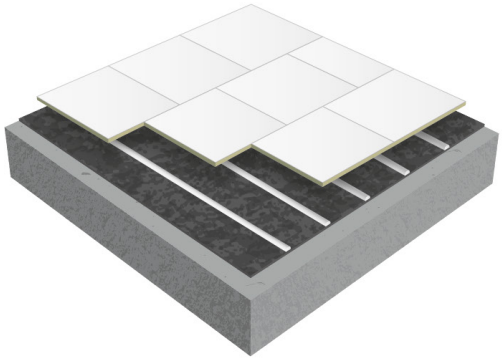
When tested in accordance with BS EN ISO 10140-2:2010 as an individual 30mm layer within a single ply flat roof system, onto a 0.7mm profiled steel deck, the system performance achieved ***Rw 33 dB. HARDROCK® Multi-Fix Recovery Board is the ideal solution for flat roof refurbishment on schools and supports the current acoustic refurbishment standards as listed in Table 1 of the Building Bulleting 93 document, “Acoustic Design of Schools: Performance Standards.”

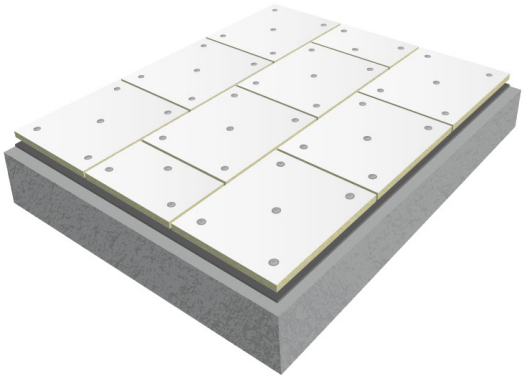
Installation Instructions

Warm roofs and cold ventilated roofs

HARDROCK® Multi-Fix Recovery Board has been specifically developed for use on flat roof refurbishment projects.

- Remove any loose debris.
- Mechanically fix or bond HARDROCK® Multi-Fix Recovery Board through/to the existing roofing membrane and/or insulation, into the roof deck, always ensuring that the existing deck is in a reasonable condition. A compatible adhesive must be used for bonding the insulation to the existing surfaces.
- 4N° fixings per m² are required (5N° per board) for all bonded and torch applied membranes (see recommended installation section containing fixing pattern, below).
- For all applications the boards should be laid in a staggered pattern with the mineral fleece facing upwards.
- Apply the new membrane to HARDROCK® Multi-Fix Recovery Board (see fixing guidelines overleaf).
- The existing cross ventilation of cold roof systems must always be maintained.





ROCKWOOL recommend the use of a plastic tube washer, or stress plate support thread when mechanically fastening roof boards to metal, concrete or timber deck warm roof systems. A stress plate and fastener fixings are required for ventilated timber deck cold roof systems.

ProTherm ROCKWOOL®
HARDROCK® Multi-Fix Recovery Board

PRODUCT DESCRIPTION	
Appearance top side	Mineral-coated fibre tissue
Core	Stonewool
Appearance bottom side	No facing

DECLARED PERFORMANCE			
Essential Characteristics	**Performance**	**Unit**	**Standard**
Dimensions and tolerances - Thicknesses - Width - Length	 60, 85, 105, 115, 150, 170, 185, 210, 235, 255 1000 1200	 mm mm mm	
Thermal conductivity	0.039	W/mK	BS EN 13163, ISO 14001
Fire classification	A2-s1,d0	Euroclass	
Water vapour resistance	5.9	MNs/g	
Typical Weight (gross/net)	160	kg/m^3 (typical)	

PROTHERM ROCKWOOL HARDROCK MULTI-FIX (DD) CHARACTERISTICS

Thickness (mm)	Length (mm)	Width (mm)	R Value (m²k/W)	Typical U value on Metal deck (W/m²k)	Typical U value on Concrete deck (Wm²k)	Typical U value on Timber deck (W/m²k)
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

NBS Specification Clauses

Please view on NBS Source here:
https://source.thenbs.com/product/protherm-rockwool-hardrock-multi-fix-dd-insulation

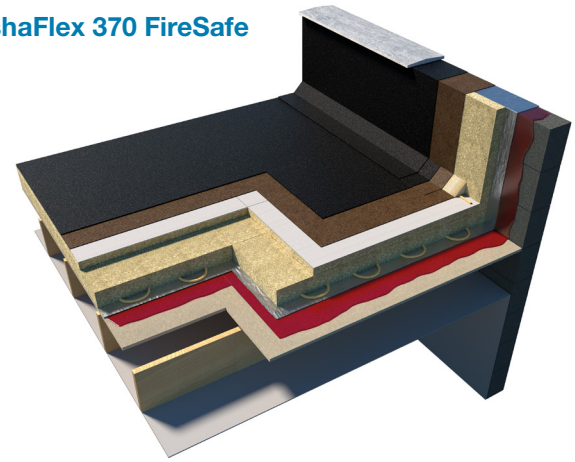
For a comprehensive NBS specification contact Radmat Building Products.

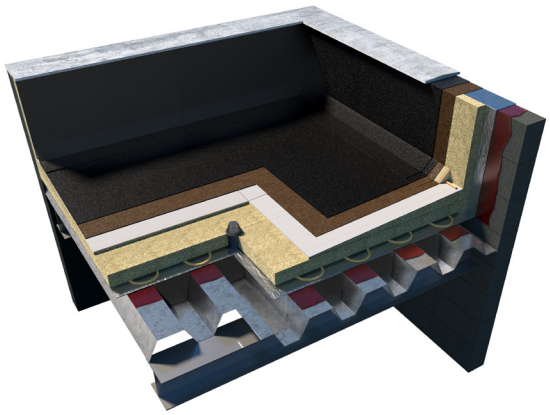
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Application

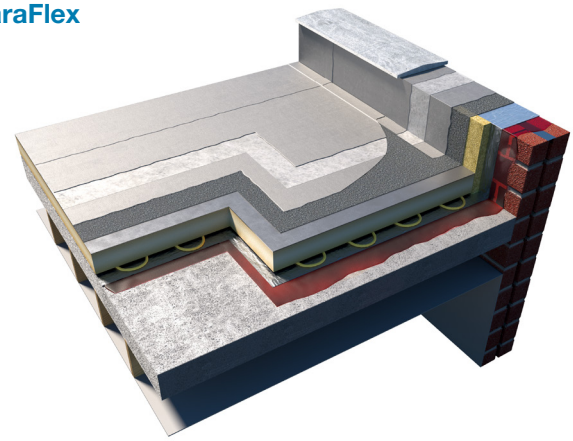
ProTherm ROCKWOOL HARDROCK Multi-Fix (DD) can be used with the following Radmat waterproofing systems:

EshaFlex 370 FireSafe

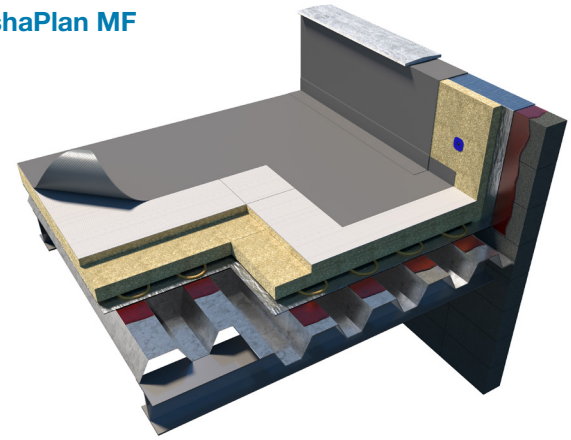




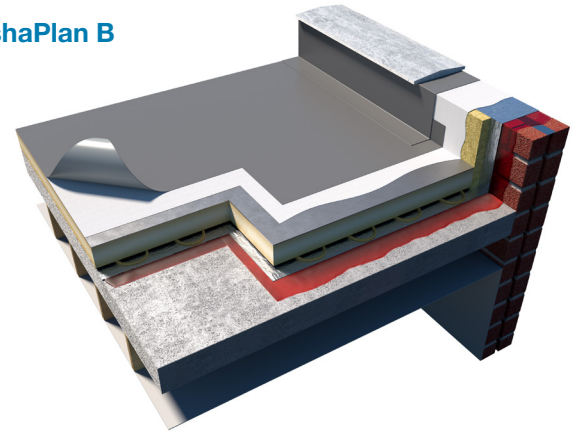
ParaFlex



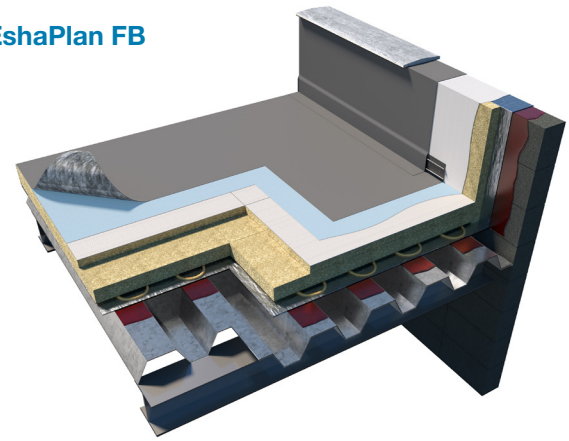
EshaPlan MF



EshaPlan B



EshaPlan FB



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**

Previous Revision: 01/08/2021 v0	Latest Revision: **28/01/2025 v0**

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