

## Technical Data Sheet HARDROCK® Multi-Fix (DD)

### Product Description / Use:

HARDROCK® Multi-Fix (DD) is a high density, non-combustible thermal insulation board which has also been tested for acoustic applications and fire resistance. It has been proven to improve the ability of lightweight flat roof systems to control both noise ingress and egress through the building envelope.

HARDROCK® Multi-Fix (DD) is a stone wool insulation board faced with a mineral-coated white fleece, compatible with a wide range of MOY adhered and mechanically fixed waterproofing systems - including bitumen, single-ply and liquid membranes, as well as green roof systems.

### Benefits:

- Compatible with most MOY roofing systems
- The product presents no smoke hazard, and will not contribute to fire growth in any stages of a fire (including the fully developed stage of a fire)
- The product is deemed to be non-combustible in accordance with UK building regulations
- LPCB approved to highest classification, LPS1181: Part 1 EXT - A rated constructions
- Excellent acoustic reduction, absorption and impact (rain noise) performance
- Solutions to meet all BB93 (Education) and HTM08- 01 (Healthcare) acoustic requirements
- Acoustic solutions provide opportunity for additional BREEAM points
- Dimensionally stable
- Consistent thermal performance with no blowing agents. Zero ODP and GWP
- HARDROCK® Multi-Fix (DD) can be recycled and reprocessed, reducing landfill and costs
- Also available as a tapered insulation system, to create the falls in the roof (HARDROCK® Multi-Fix (DD) Tapered)



### Certification:



For FM Approval must be used as part of an FM Approved Assembly.

### Reaction to Fire:

HARDROCK® Multi-Fix (DD) has a Euroclass rating of A2-s1, d0. (HARDROCK® Multi-Fix (DD) Underlay Slab has a Euroclass rating of A1).

### System Fire Testing:

Test Standard: CEN/TS 1187: 2012  
Classification Standard: BS EN 13501-5: 2016\*

warringtonfire

\* Determination of external fire performance is a system test which will be influenced by the components within the roofing system.

Whilst HARDROCK® Multi-Fix (DD) can be included in compliant B<sub>ROOF (t4)</sub> systems, always check with MOY Technical Services for the very latest information on fire testing carried out.



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### Thermal Conductivity:

The thermal conductivity (or lambda value) shows how well a material can conduct heat. The lower the thermal conductivity, the better the insulator.

HARDROCK® Multi-Fix (DD) has a thermal conductivity of 0.039 W/mK.

### Board Sizes:

- 1000 x 1200 mm

### Thicknesses:

- HARDROCK® Multi-Fix (DD); 60 mm, 85 mm, 105 mm, 115 mm, 150 mm, 185 mm
- HARDROCK® Underlay Slab for multi-layer systems (DD); 150 mm.

Consult MOY Materials Ltd as thicknesses may be subject to availability and minimum order volumes

### Weight:

HARDROCK® Multi-Fix (DD) has an approximate weight of 28.8 kg/m<sup>2</sup> at a thickness of 150mm.

### Compressive strength:

Compressive strength is a material's ability to maintain its structural integrity when compressed. The higher the compressive strength the better the material is at maintaining its structural integrity.

The compressive strength of HARDROCK® Multi-Fix (DD) typically exceeds 70 kPa at 10% compression.

### Technical Specification:

Detailed product characteristics for this product are given in Declaration of Performance [DoP].

### Sustainability Information:

Relying on entrapped air for its thermal properties, HARDROCK® insulation does not contain gases that have ozone depleting potential (ODP) or global warming potential (GWP) and as such complies with the relatively modest threshold of GWP<5.

HARDROCK® Multi-Fix (DD) can be recycled and reprocessed reducing landfill and costs.

### Installation and handling:

For information on installation and handling please refer to specific product guidance and the project specification.

### Storage:

Insulation products must be kept dry and protected from wet weather during storage and installation.

### Disposal:

In accordance with REACH health and environment regulations, there are no hazardous classifications associated with HARDROCK® mineral wool in respect to physical, health and environmental considerations, however information for this product are given in the Safety Data Sheet.

MOY Materials Ltd has taken care to ensure that the information provided in the literature is correct and up to date. However, it is not intended to form any part of a contract or provide a guarantee. Purchasers/intending purchasers should contact MOY Technical to check whether there have been any changes to the information since publication of the literature. Please ensure you have read the hazard labels and material safety data sheet before using this product.