Bitumen Waterproofing
Liquid Waterproofing
Single Ply Waterproofing

Product Data Sheet

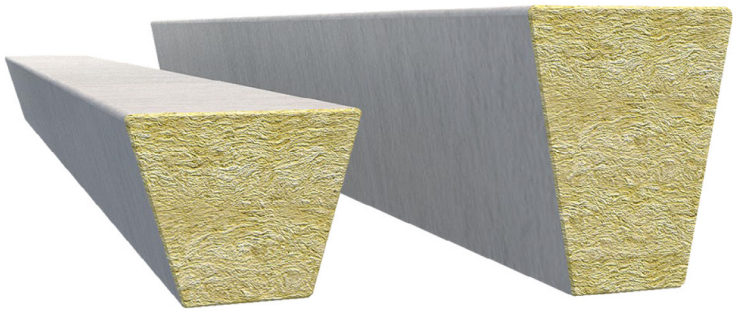
HYTHERM MW INFILLS
Insulation

Hytherm MW Infills are a stone wool insulation infill with a mineral fleece facing, designed specifically to fit in the troughs or perforated metal decks, to aid indoor acoustic environments be improving sound absorption.

Hytherm MW Infills combine optimal density and random fibre orientation to provide an improvement in sound absorption. When situated within the troughs, they act to absorb incident sound that would otherwise be reflected back into the space below. This lowers the reverberation time within the room, which lowers the noise level.

Hytherm MW Infills have been tested in accordance with BS EN ISO 354:2003.

Suitable for use within Axter warm roof systems including either thermally-activated adhesive or self-adhesive bitumen and single ply membranes or cold-applied liquids.



Key benefits

- Pre-cut to suit specific profiles.
- Absorption classification: Class C*.

*Depending on profiled deck perforation pattern.

Applications

Hytherm MW Infills are used to control the acoustic environment across all sectors, including but not limited to, swimming pools, sports halls, manufacturing plants, meeting areas, meeting areas.

Standard sizes

To suit TATA deck	Length (mm)	Major (mm)	Minor (mm)	Thickness (mm)
D46	1200	116	63	42
D60	1200	106	60	55
D100	1200	120	59	95
D135	1200	161	39	130
D159	1200	138	34	150

Other profiles/ sizes may be available upon request to suit other deck types, subject to a minimum order quantity.

Performance

The ability of the underside of the following roof build-up to absorb sound was tested to BS EN ISO 354 (manufacturers test report C/06/SL/3434/2):

- Acoustic Infills within perforated TATA D60 perforated steel deck (13% open area).
- Air and vapour control layer.
- 210mm Hytherm MW.
- Mechanically fastened single ply membrane.

Results						
Frequency (Hz)	125	250	500	1000	2000	4000
Practical absorption coefficient	0.55	0.95	1.00	0.90	0.60	0.40

Weighted absorption coefficient $a_w = 0.60$

Density

The standard density of Hytherm MW Infills varies between 45-60kg/m^3.

Water resistance and moisture

Whilst Hytherm MW insulation board is not waterproof, it is non-hygroscopic, meaning it will not absorb water from the surrounding air and it can repel limited amounts of moisture.

Installation

Care should also be taken to clean off all surfaces prior to fitting Hytherm MW Infills. The Hytherm MW Infills are installed directly into the troughs of the metal deck, ensuring that all joints are tightly butted together. Where required, Infills can be cut to size using an insulation knife.

Handling, cutting and storage

Hytherm MW Infills must be protected from prolonged exposure to sunlight and should be stored either under cover or protected with opaque polythene sheeting. Where possible, packs should be stored inside. If outside, packs should be raised off the ground, not in contact with ground moisture.

The polythene wrapping is not considered adequate protection for outside exposure.

Hytherm MW Infills that have become wet must be allowed to fully dry out naturally before use, at which point they should regain their original properties.

When handling, properly support the Hytherm MW Infills along the entire length.

Where necessary, Hytherm MW Infills can be readily cut using an insulation knife. Ensure that Infills are cut square to achieve continuity of insulation without cold gaps between edges.

Appropriate PPE should be worn when handling insulation. Please refer to corresponding Safety Data Sheet on the Axter website.

Environmental

Made from natural materials, Hytherm MW can be recycled and reprocessed reducing landfill costs. It does not contain gases that have ozone depletion potential (ODP) or global warming potential (GWP). It is approximately 97% recyclable. Refer to the Safety Data Sheet for more details.