

BEWI UFH-M Board

Technical Datasheet

BEWI UFH-M Board is a moulded expanded polystyrene (EPS) insulating pipe carrier for use with hot water underfloor heating systems. Developed to provide a solution to retrofitting underfloor heating systems in combination with floating finishes over existing floors.

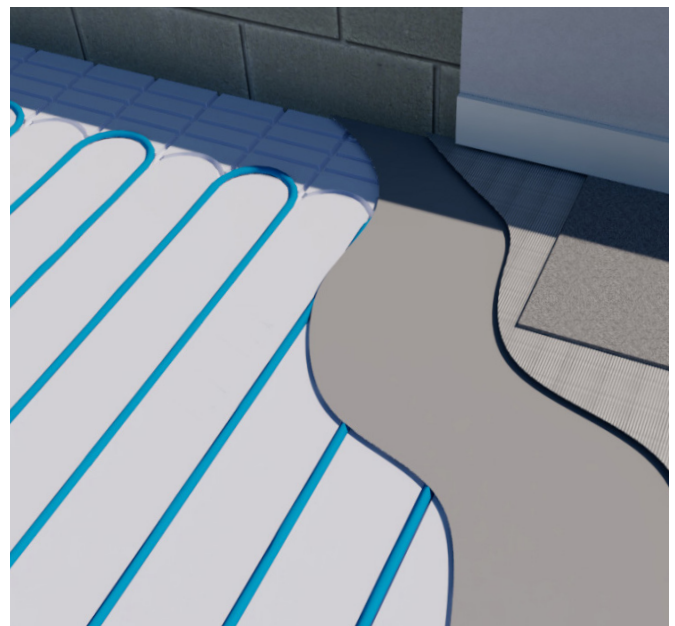
The boards are available in two options, 16/12 and 20/16, each with a pre-formed channel at 150mm centers, to accommodate either 12mm or 16mm pipe diameter configurations and a range of compressive strengths to suit an array of floor build-ups.

Pipes are simply laid into the pre-moulded channels and overlaid with the desired floor finishes. The type and thickness of the proposed floor finish and floor design load categories will dictate the compressive strength (grade) requirements of the UFH-M Boards, see Table 1.

Please note: While the polystyrene boards provide some insulation, additional thermal insulation will likely be necessary beneath ground floors to achieve compliance with Part L of the Building Regulations.

Key Benefits

- **Suitable for most applications** – BEWI UFH-M Boards are 16 or 20 mm thick, therefore only a minimal increase in floor level is required.
- **Simple** – Lightweight and easy to cut
- **Compatible** – Works with traditional boilers or renewable heat sources.
- **Low Profile Heating System** – Minimal increase to floor height, minimum disruption when installing in existing buildings.
- **Dry Assembly** – Options for dry alternatives to wet screed systems which reduces the time on site, benefitting the build programme.
- **Thermal Comfort** – The boards conduct heat evenly, creating a uniform heat distribution.
- **Full Room Coverage** – The entire floor area is acting as a heat emitter.
- **Solid Finish** – The boards are fixed down which gives a solid feel underfoot and a stable platform for the flooring above.



Dimensions

Size	1200 × 600mm (board coverage 0.72m ²)
Thickness	20mm for pipes with 16mm diameter 16mm for pipes with 12mm diameter
Pipe Centres	150mm

Type

BEWI UFH-M Boards are supplied as EPS 70, 100, 150, 200, 250, 300 & 400 as defined in BS EN 13163 with flame retardant additive as standard, achieving Reaction to Fire Class E.

For more information:

bewi.com e-mail: sales.insulation.uk@bewi.com Tel: 0870 600 3666

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Floor coverings

BEWI UFH-M Boards are suitable to accommodate a wide variety of floor coverings, including carpets, tiles, vinyl, engineered wood and laminate flooring.

Floor coverings should not be installed until 24 hours after the installation of the system and any necessary pressure testing has been successfully completed.

Consideration should be given to the amount of point loading expected on the floor (see grade selection).

For wet areas, fully tank the entire surface of the boards to protect against damage.

Grade selection

The grade of UFH-M Boards should be selected in line with the building type and specified floor loadings.

Compressive strengths of the various standard grades available are provided in Table 1 and cover domestic loading requirements as detailed.

For domestic loading criteria exceeding that detailed in Table 1 and or any predicted long-term loads, (for example, staircase newel posts, water tanks or kitchen installations), additional support, direct to the load bearing structural substrate, may be required.

Given the wide range of non-domestic loading categories and floor finishes please contact the BEWI Technical Team for help selecting the appropriate product type for your application.

Table 1

Domestic - Examples of floating floor finishes (1) Loadings (UDL 1.5kN/m ² Concentrated Load 2kN) (2)	Minimum Topping Thickness mm (3)	UFH-M Board - EPS Grade						
		70	100	150	200	250	300	400
Traditional sand and cement screed	65	•	•	•	•	•	•	•
Modified sand and cement screed (4)	60	-	•	•	•	•	•	•
Modified screed / Flowing screed (4)	35	-	-	•	•	•	•	•
25mm Tongue and Groove Dry Screed Panels	25	-	-	-	•	•	•	•
22mm Tongue and Groove Chipboard + Carpet or Vinyl over	22	-	-	-	-	•	•	•
18mm Tongue and Groove Chipboard + Carpet or Vinyl over / Levelling compound + fully adhered floor tiles (5)	15	-	-	-	-	-	•	•
Levelling compound + fully adhered floor tiles, Tongue and Groove engineered wood and laminate floor finishes (5)	10	-	-	-	-	-	-	•

1 Floating floor finish - where a layer of thermal insulation, (BEWI UFH-M Board), is positioned between the wearing surface and the structural substrate

2 Domestic UDL and Concentrated loads have been calculated over a bearing area of 100 x 100mm.

3 Minimum topping thicknesses shown are vital to ensure loads are sufficiently spread avoiding excessive compression.

4 Check any proposed specification, minimum topping thickness and grade of insulation with the screed manufacturer, supplier and installer.

5 Minimum tile size 100 x 100mm - adhesives and floor finishes must be verified with the manufacturer for application suitability

Note: For non-domestic floor applications please contact BEWI Technical Team for advice on a suitable EPS board grade

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Physical Properties

Physical properties	EPS 70	EPS 100	EPS 150	EPS 200	EPS 250	EPS 300	EPS 400
Design load at 10% nominal compression (kN /m ²)	70	100	150	200	250	300	400
Design load at 1% nominal compression (kN /m ²)	20	45	70	90	100	120	160
Thermal Conductivity (W/mK)	0.038	0.036	0.035	0.034	0.034	0.033	0.033
Fire Performance	Reaction to Fire Class E (containing a flame-retardant additive)						

Accreditations

CE marking

BEWI have taken the responsibility of CE marking the product in accordance with harmonised European Standard BS-EN-13163-2012+A2-2016.

Declaration of Performance is available on request.

Quality and Environmental Responsibility

All BEWI products are manufactured in production facilities which are certified under a Quality Management System accredited to ISO 9001:2015 and an Environmental Management System accredited to ISO 14001:2015.

Compliance

BEWI UFH-M Board conforms to the required properties as defined in BS-EN-13163-2012+A2-2016– Thermal insulation products for buildings – Factory made expanded polystyrene (EPS) products – Specification.

Fire

BEWI UFH-M Board is supplied as flame retardant material, Euroclass E, as standard.

Refer to the National Building Regulations for types of buildings and any product restrictions /exclusions that may apply prior to use and or inclusion in any specification.

Disclaimer: Every effort has been made to ensure the correctness of the information provided in this data sheet and is based on data and knowledge accurate at the time of production. It is designed for experienced professionals in the building and construction industry and does not offer a complete overview of industry practices. Therefore, this cannot guarantee the performance results, as usage and installation conditions are outside our control. If you have any questions regarding the suitability of the application, please contact us.

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