

BEWI Partial-Fill Cavity Wall Insulation

Technical Datasheet

BEWI Partial-Fill Cavity Wall Insulation is manufactured from expanded polystyrene (EPS) and is designed to be incorporated into new masonry walls during construction.

The insulation is lightweight and easy to handle and is retained against the required leaf by clips on the wall ties.

Key Benefits

- Easy to install
- Lightweight and easy to handle
- Resistant to moisture
- Durable and rot-proof
- Maintains the cavity
- EPS has an A+ rating in the BRE Green Guide to Specification
- Permanent insulation for the lifetime of the building

Dimensions

Standard size: 1200 × 450mm.

Thickness: 25, 40, 50, 60, 75, 100 and 150mm.

Other sizes are available to order.

Type

BEWI Partial-Fill Cavity Wall insulation is supplied as EPS 70 (white – thermal conductivity 0.038W/mk) and EPS HP 70 (grey – thermal conductivity 0.032W/mk) as defined in BS EN 13163. Flame retardant additive material is available to order.

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.



Thickness (mm)	R-Values EPS White (m ² K/W)	R-Values EPS Grey (m ² K/W)
25	0.65	0.75
40	1.05	1.25
50	1.30	1.55
60	1.55	1.85
75	1.95	2.30
100	2.60	3.10
150	3.90	4.65

For more information:

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

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Thermal Performance

A U-Value of $0.27\text{W/m}^2\text{K}$ can typically be achieved with a 75mm thickness of BEWI Partial-Fill Cavity Wall Insulation HP 70 based on a common cavity wall construction using a range of materials for both inner and outer leaf.

Permanent

BEWI Partial-Fill Cavity Wall Insulation is rot-proof and durable and will remain effective for the life of the building; the recommended fixing methods will retain the boards permanently in position.

Rapid, economical construction

The boards are available in sizes to suit block coursing and tie centres and are simply clipped into position as construction of the wall proceeds.

Easy to cut and fit

If required, boards can be easily cut to length using a sharp trowel or knife. No specialised trades or equipment are required.

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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