

Permarock EPS-Premium External Wall Insulation System

Overview

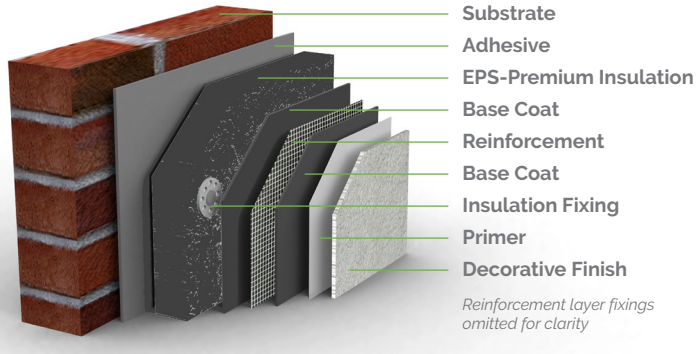
Permarock EPS-Premium external wall insulation systems are high-performance, light-weight systems based on low lambda expanded poly=issipate heat. The Systems are suited for new buildings as well as the upgrade of existing buildings.

**EPS-Premium to Masonry Construction is available with the following decorative finishes: Silicone^{Ultra} K 1.5mm, Brick slips, Brick effect render and Dry Dash.*

Key features

- Suitable for use on buildings up to 11m in height *
- Can help achieve or exceed BREEAM, Passivhaus, EnerPHit and similar performance standards
- Graphite additive gives the insulation improved thermal performance over standard (white) EPS
- Low U-values possible – insulation thicknesses up to 300mm
- Suited for situations where low imposed loads are critical
- BIM Level 2 compliant (bimstore)

Typical EPS-Premium EWI system incorporating through-coloured K Finish



Reinforcement layer fixings omitted for clarity

Quick Check	
Certification	BAW-24-333-S-A-UK
Substrate Types	Masonry, Brickwork, Blockwork / Precast or In-situ concrete (dense, lightweight or no fines).
Building Height (limitations)	Up to 11 metres.
Reaction to Fire Classification	B-s2, d0
Decorative Render / Finishes	Silicone^{Ultra} K 1.5mm, Dry Dash, Brick Slips, Brick Effect Render.
Insulation Thermal Conductivity	0.030 W/mK
Insulation Thickness	10 - 300mm

Non combustible fire breaks should be introduced at each floor level above second floor, at compartment walls, and elsewhere as required in Building Regulations Approved Document B.

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kiwa AGRÉMENT BAW-24-333-S-A-UK

Cert No. FM13066 Cert No. EMS 580356

NBS Source PARTNER

Available on bimstore.co

Environmental & Quality Standards

- Low U-Values are achievable in order to meet or exceed BREEAM, Passivhaus, EnerPHit and similar performance standards
- The system is manufactured and supplied in accordance with BS EN ISO 9001 (Quality Management) and BS EN ISO14001 (Environmental Management)
- EPS-Premium insulation is manufactured to EN 13163 and is CFC and HCFC free
- The insulation has zero Ozone Depletion Potential (zero-ODP) and low global warming potential (GWP) of less than five
- Recycling facility for uncontaminated insulation boards is available for site waste
- Green Guide to Specification A+ Rating achievable
- Extremely airtight façades can be achieved



U-values: *Insulation thickness requirements to achieve a range of U-values for typical wall constructions can be found in our New / Existing Buildings brochures and on our website.*

Technical Overview

System Properties	
Certification	BAW-24-333-S-A-UK
Thermal Performance	Systems can be designed to achieve very low U-values.
Weather Resistance	Provides a weather resistant cladding to new and existing backing walls of brick and block masonry, dense and no-fines concrete. Can be designed to buildings in locations where the wind driven rain exposure classification is very severe.
Wind Loads	Systems can be designed to meet all anticipated UK wind load requirements.
Impact Resistance	Systems can be designed for the zones associated with Categories I, II and III in accordance with EAD 040083-00-0404.
Fire Performance	The System is classified as European Classification: • B-s1, d0, in accordance with BS EN 13501-1, when incorporating brick slip finish. • B-s2, d0 in accordance with BS EN 13501-1, when incorporating silicone, brick-effect render or dash finish.
Water Vapour Permeability	The systems are water vapour permeable. The rate of permeability depends on the system (thickness and decorative finish type) selected.
Design Life	The system has a design life in excess of 50 years.

1200+ colour options are available and colour matching upon request - email permarock@permarock.com for a digital copy.



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