

Permarock Mineral Fibre External Wall Insulation System

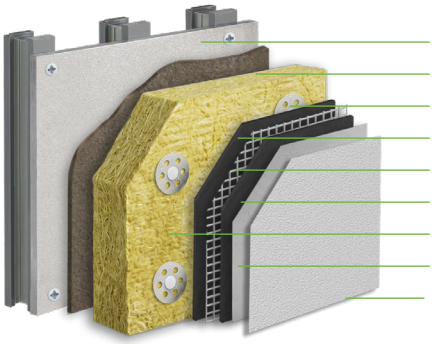
A2 -s1,d0

Overview

Permarock Mineral Fibre (Stone wool) external wall insulation systems provide excellent reaction to fire performance, with an A2- s1,d0 classification in accordance with EN 13501-1 and are equally suited for use on low & high rise buildings, including those with floor levels 18 metres above ground level. There is no height restriction on the use of Permarock Mineral Fibre external wall insulation systems.

Mineral Fibre systems with Permarock Silicone^{Ultra} K 1.5mm, Brick Slip, Brick Effect Render and Dry Dash Finishes are class A2-s1,d0 to EN 13501-1.

Typical Mineral Fibre EWI system incorporating through-coloured Silicone^{Ultra} K Finish



Reinforcement layer fixings omitted for clarity

Key features

- Building Regulations compliant - can be used on buildings of any height*
- A2-s1,d0 reaction to fire classification EN 13501-1
- Incorporates non-combustible mineral fibre (stonewool) insulation (Euroclass A1)
- SWIGA approved high-rise system
- Adhesively bonded + mechanically anchored for enhanced resistance to wind loading
- Wide selection of decorative renders / finishes / effects

Quick Check	
Certification	BAW-24-331-S-A-UK BAW-24-332-S-A-UK BAW-25-403-S-A-UK
Substrate Types	Brickwork, Dense Concrete, No-Fines Concrete, Blockwork, Suitably Sheathed Light Gauge Steel Frame
Building Height (limitations)	No limit*
Decorative Render / Finishes	Silicone^{Ultra} K 1.5mm, Dry Dash, Brick Slips, Brick Effect Render
Insulation Thermal Conductivity	0.036 W/mK
Insulation Thickness	50 - 250mm **

** 30mm & 40mm insulation available (0.038 W/mK)

permarock PRODUCTS LTD

kiwa AGRÉMENT BAW-24-331-S-A-UK
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kiwa AGRÉMENT BAW-25-403-S-A-UK

bsi. ISO 9001:2015 Quality Management Cert No. FM13066
bsi. ISO 14001:2015 Environmental Management Cert No. EMS 580356

Available on bimstore.co

NBS Source PARTNER

Environmental & Quality Standards

- Kiwa Agrément certificates
- The system is manufactured and supplied in accordance with BS EN ISO 9001 (Quality Management) and BS EN ISO14001 (Environmental Management)
- Mineral Fibre insulation is manufactured to EN 13162 and is CFC and HCFC free, has zero Ozone Depletion Potential (zero-ODP) and zero global warming potential (GWP)
- Recycling facility for uncontaminated insulation boards is available for site waste
- Ecopoint Rating /m^2 – 0.10: Excellent
- Very low U-Values are achievable in order to meet or exceed BREEAM, Passivhaus, EnerPHit and similar performance standards, etc.
- Green Guide to Specification A Rating achievable



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-24-331-S-A-UK / BAW-24-332-S-A-UK / BAW-25-403-S-A-UK
Thermal Performance	Systems can be designed to achieve U-values which satisfy or exceed current UK Building Regulation requirements
Weather Resistance	Provides a weather resistant cladding to new and existing backing walls of brick and block masonry, dense and no-fines concrete and sheathed light gauge steel frame and timber frame constructions. Can be designed buildings in locations where the wind driven rain exposure classification is very severe
Wind Loads	Using a combination of adhesive bonding and mechanical fixing, these systems can be designed to withstand all anticipated wind load (suction) scenarios in the UK
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	System is classified as European Classification: A2-s1, d0, in accordance with BS EN 13501-1, when incorporating a Silicone^{Ultra}, dry dash, brick slip or brick effect render 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	Systems have a design life in excess of 50 years. 60 year design life is available subject to specification

For further information on the decorative finishes above please consult the relevant information sheet, website or contact Permarock.
All information stated is correct at time of printing and subject to change without notice.

1250+ colour options are available and colour matching upon request - email permarock@permarock.com for a digital copy.



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