

This certificate is valid for building regulations and associated technical guidance in force at the time of the registration and for the regulations in Scotland only

K-Systems EPS/Grey EPS EWI (formally Swisslab)

Description of Product

The K-Systems EPS/Grey EPS External Wall Insulation System comprises mechanically fixed expanded polystyrene (EPS) or Grey EPS insulation boards with optional supplementary adhesive, glassfibre reinforcing mesh and render finishes, and suitable for use on new or existing domestic and non-domestic masonry, and no -fines concrete buildings up to 11m

Substrates applicable:
Masonry, Brick (Solid), Brick (Cavity), Concrete, No - Fines Concrete, Existing Rendered Masonry and Blockwork.

OTHER NON- TRADITIONAL WALL TYPES ARE OUT WITH THE SCOPE OF THIS CERTIFICATE.



Key factors assessed

- Mechanical Resistance & Stability
- Safety in case of Fire
- Health, Hygiene and Environmental
- Safety in Use
- Energy, Economy and Heat Retention
- Durability serviceability and identification

Validity

This certificate was first issued on 9 May 2018

Issue Date: 12 October 2021 and is valid until **11 October 2022**

Scope of Registration

An insulation material for use on external walls.

K-Systems EPS/Grey EPS External Wall Insulation System has been considered for registration for low rise buildings only (where no storey in a building exceeds 11m).

The acceptance of the registered detail for any given project is also conditional on the wider suitability of the existing building to receive external wall insulation system. This suitability must be established by carrying out a thorough assessment of the building. This assessment must form part of the design and specification process to be carried out by K-Systems or their approved contractor for the project, and if it identifies that the building is not suitable to receive the K-Systems EPS/Grey EPS External Wall Insulation System, then this Registered Detail should not be considered applicable.

Conditions of Certificate

That this certificate refers only to K-Systems EPS/Grey EPS External Wall Insulation System to be used for the Registered Detail

That any site-specific assessment, as referred to under the scope of registration above, shall take cognisance of the local wind loading parameters and any fixings must be designed to withstand such local conditions in every case. Proof of such wind effect assessments and conclusions must be provided by a qualified structural engineer when requested by the building standards verifier.

That a detailed fixings schedule should accompany any submission and a pull-out load /testing regime should be specified irrespective of SER Certification to confirm:

- BBA Certificate compliance;
- Pull out test results (each wall type);
- Detail types of fixings;
- Detail expansion joints

That an engineered approach is required for these installations.

That where no-fines concrete is subject to the application, Structural Engineers input will be required to specify and confirm pull-out tests on a site-specific basis.

That the products used as components of the system shall be manufactured and installed strictly in accordance with the manufacturer's instructions, in accordance with the certificate holder's instructions and fully in accordance with the accredited certification and supporting test reports.

That the specifications and materials referred to have been assessed and approved in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic and Non-Domestic Technical Handbooks which came into force with effect from 1 March 2021.

That where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this registered detail.

That the materials specified shall not be changed without first gaining approval so to do. Failure to do so will invalidate the registered detail.

That this Registered Detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005. It supports the site - specific building warrant submission required in every case.

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the Scope of Registration and the Conditions of Certificate Sections to this Registered Detail.

Regulations



LABSS consider that, the K-Systems EPS/Grey EPS External Wall Insulation System, will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met.

The Building (Scotland) Regulations 2004 (as amended)

Technical Handbooks – Domestic and Non -Domestic

Regulation 8 Durability, workmanship and fitness of materials

0.8.5: Ways of establishing the fitness of materials

Regulation 9 Building Standards applicable to construction

Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.

Mandatory Standard 1.1 Structure

1.1.0 Introduction

1.1.1 General

1.1.2 Loading

1.1.3 Design and construction

Note: This standard is subject to site specific assessments and the acceptance of the registered detail for any given project must remain conditional on the wider suitability of the existing building and its environs, including local wind loadings and conditions, to receive the external wall insulation system. This suitability must be established by carrying out a thorough assessment of the building. This assessment must form part of the design and specification process to be carried out by K-Systems or their approved contractors for the project, and if it identifies that the building is not suitable to receive the K-Systems EPS/Grey EPS External Wall Insulation System, then this Registered Detail should not be considered applicable.

Mandatory Standard 2.1: Compartmentation; Mandatory Standard 2.2: Separation; Mandatory Standard 2.3: Structural Protection and Mandatory Standard 2.9: Means of Escape.

Note: This certificate only covers this system as a fully adhered application and requires that cognisance is taken of the maintenance of fire-resistant integrity at all separating / compartment wall / floor junctions and at protected zones around escape routes within buildings to meet the above Mandatory Standards

Mandatory Standard 2.4 Cavities

2.4.1 Cavity barriers

Note: This certificate only covers this system as a fully adhered application and as such no cavity will be created between the wall substrate and the cladding. This standard would apply only in the event of a physical cavity being created by the installation.

Mandatory Standard 2.6 Spread to neighbouring buildings and Mandatory Standard 2.7 External cladding

Note: This system has a European reaction to fire classification of B, s1, d0. Restrictions in use apply with regards height and use of building and distance to boundary.

Mandatory Standard 3.10 Precipitation

3.10.1 General provisions

3.10.2 Wall constructions - solid

3.10.3 Wall constructions - cavity

Note: The system when constructed in accordance with the manufacturers specifications and instructions and in accordance with the scope and conditions of this registered detail will add to compliance with this standard.

Mandatory Standard 3.15 Condensation (Domestic)

3.15.1 Condensation

3.15.5 Interstitial condensation

Note: The system when constructed in accordance with the manufacturers specifications and instructions and in accordance with the scope and conditions of this registered detail will add to compliance with this standard.

Mandatory Standard 4.1 Access to Buildings

4.1.6 Width of accessible entrances

Note: The installation of this system should be carried out in such a way as not to adversely affect compliance with this standard.

Mandatory Standard 6.2

6.2.0 General

6.2.11 Alterations to the insulation envelope

Note: The system when constructed in accordance with the manufacturers specifications and instructions and in accordance with the scope and conditions of this registered detail will add to compliance with this standard.

**The Building Regulations 2010 (as amended) England & Wales****The Building Regulations 2010 (as amended) England**

If you would like to discuss a specific use of the product in England it will require an additional assessment under the English Building Regulations and accordingly, you should contact the LABC

The Building Regulations 2010 (as amended) Wales

If you would like to discuss a specific use of the product in Wales, it will require an additional assessment under the Welsh Building Regulations and accordingly you should contact the LABC Cymbru

Supporting Information

All supporting information to this certificate can be supplied by the manufacturer / installer and includes these primary documents:

- Structural Appraisal Report 09/04/17
- BBA Certificate 93/2914
- BBA test report No 51190
- Warrington Fire Reaction to Fire test report WF 415837
- Alumasc Proposed Specification 05/02/18
- Standard details pack
- U-value and condensation analysis calculations

Additional information is available to verifiers on the LABSS Website – <https://www.labss.org/k-systems-k-systemsepsgreypeps-ewi>

Contact Information

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