

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

Structherm Structural Eps/Phenolic External Wall Insulation Systems for Swedish Timber/Timber-Framed Structures

Description of Product

Structherm Structural EPS /Phenolic External Wall Insulation Systems for Swedish Timber/Timber Framed Structures, comprising standard expanded polystyrene (EPS), enhanced EPS or phenolic insulation in a mechanically fixed galvanized or stainless-steel cage, with a variety of render finishes. The systems are suitable for use on the outside of walls of new and existing domestic and non-domestic buildings and are subject to height restrictions.

The system has options for either a silicone, dash or brick effect/ArtBrick finishes. The Brick effect/Art brick finish can also be patterned/textured to imitate timber boards and stone.

The system has a B-s1, d0 reaction to fire classification in accordance with BS EN 13501-1: 2007 and use is restricted in terms of height and distance to boundary.



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 **26 January 2022** and is valid until **25 January 2023**

Scope of Registration

The system has a B-s1, d0 reaction to fire classification in accordance with BS EN 13501-1: 2007 and use is restricted in terms of height and distance to boundary with reference to Mandatory Standards 2.6 and 2.7

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 Structherm or their approved contractor for the project, and if it identifies that the building is not suitable to receive the system then this Registered Detail should not be considered applicable.

Conditions of Certificate

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. A 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.

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 Technical Handbooks which came into force with effect from 1 March 2021 (including April 2021 Addendum).

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 or at the date of the installation on any site-specific project.

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

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 Structherm EPS/Phenolic 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 is therefore not covered by this Registered Detail.

Note: The acceptance of the registered detail for any given project must remain conditional on the wider suitability of the existing building 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 Structherm or their approved contractors for the project, and if it identifies that the building is not suitable to receive the 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 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 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 achieved a classification of B-s1, d0 when tested in accordance with Classification of Reaction to Fire Performance BS EN 13501- 1:2007+A1 2009. Therefore, the use of this product is restricted with reference to these Standards

Mandatory Standard 3.10 Precipitation

The system can contribute to satisfying this Standard.

Mandatory Standard 3.15 Condensation (Domestic)

The system will contribute to satisfying this Standard

Mandatory Standard 6.1(b) and 6.2

The system can contribute to satisfying these Standards

Supporting Information

- 115. EN 13501-1 2018 - WF 425041 - B Rated Structherm Structural Cladding Dash Finished Systems
- 117. EN 13501-1 2018 - WF 427708 - Structural B Class Silicone Finish
- 119. EN 13501-1 2018 - WF 427710 - Structural B Class Brick Finish
- BBA18/5498-PS1
- 11009 - Drawing Pack 25.03.21
- 11009 - Pull-Out Test - Report 1
- 11009 -11009 - Wind Load Calculation - SEWI - Rev D- 021220
- 11009 S002 Rev B GPL125
- 11009 U-Value Calculation - Existing Construction (1.02)
- 11009 U-Value Calculation - Proposed GPL125 Solid Cedar (0.27)
- 11009 - WUFI Analysis Report Rev A 23.05.21
- Structherm Report 11009 - Use of Structherm SEWI Cladding Systems on to Timber Frame Structures
- LABSS INFORMATION PAPER INFOP05 - 2018 Version 11 (May 2021)

NOTE: The referenced supporting information clarifies the main properties and typical construction details of the External Wall Insulation system covered by this Certificate, but the designer and installer should be aware for each site-specific project matters such as structural stability, wind loading and pull-out tests, provision of cavity barriers and fire stops, measures to prevent precipitation and condensation, and energy properties and u-values must be assessed on a site by site basis to confirm compliance with the Mandatory Building Standards.

Contact Information

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