

Resene Construction Systems Insulated Facade System - EPS

Product Technical Statement: 102338



A plaster render system installed over a styrene substrate installed on a cavity

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Resene Construction Systems confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[633](#)

Technical Statement

Product Description

The Insulated Façade System is a cavity-based exterior insulation and finishing system (EIFS) wall cladding. It is an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

The system consists of Graphex (Neopor®), expanded polystyrene (EPS), extruded polystyrene (XPS) or polyisocyanurate (PIR) sheets fixed over battens to form the cavity. The plaster coating system consists of 5 mm thickness of fibreglass mesh reinforced, polymer-modified, cement-based plaster, which is finished with a cement-based finishing plaster that is then painted with a 100% acrylic-based paint system. The chosen finishing plaster is applied to give a range of different appearances, such as a sponge, patterned, adobe or spray textured finish.

The system incorporates Resene Construction Systems EdgeSeal joinery flashings. It also incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm drained cavity.

Scope of use

The Insulated Façade System has been appraised as an external wall cladding system for buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1 paragraph 1.1.
- With a risk score of 0-20 calculated in accordance with NZBC Acceptable Solution E2/AS1 Table 2.
- Situated in NZS 3604 wind zones up to and including extra high.

The Insulated Façade System has also been appraised for weathertightness and structural wind loading when used as an external wall cladding system for buildings within the following scope:

- The scope limitations of NZBC Acceptable Solution E2/AS1 paragraph 1.1.
- Constructed with timber and steel framing subject to specific engineering design.
- Situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa.

The system is appraised for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. (The Appraisal of the Insulated Façade System relies on the joinery meeting the requirements of NZS 4211 for the relevant wind zone or wind pressure.)

Installation of components and accessories supplied by Resene Construction Systems and its approved applicators must be carried out only by Resene Construction Systems approved applicators.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.4
- **Clause B2 Durability:** Performance B2.3.1(b), B2.3.1(c)
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

Durability applies 15 Years for the cladding system and plaster finish, and 5 years for the exterior paint system

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

masterspec partner

Company Contact Details



Company: Resene Construction Systems

Physical Address: 5 Venture Place
Middleton
Christchurch

Postal Address: PO Box 39108
Harewood
CHRISTCHURCH

Telephone: 64 6328 3386328

Fax: 64 03 3386819

Email: mark@reseneconstruction.co.nz

Website: www.reseneconstruction.co.nz

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Product Criteria

Installation requirements

Installed by a LBP or Resene Construction Systems Registered Plasterer

Maintenance requirements

Carry out an annual inspection and record this on the Resene Construction Systems Maintenance guide. For best results use Resene Paint Prep and Housewash liquid concentrate. Apply the diluted solution with a soft broom, and wash off with copious amounts of fresh water. Most detergents have a detrimental effect on fish life so avoid letting the washings run off into the storm-water system. DO NOT use harsh solvent based cleaners.

Company Product Information

Environmental

Resene Construction Systems GreenSite® strategy is full circle. Raw material supply through to product application is considered with all products and systems. The process monitors the resources we use and the waste that is produced, whilst maintaining consideration of the environmental performance and the applications of our products. Resene Construction Systems Incorporates 'new' recyclable materials into products ensuring we don't compromise; strength, durability, or integrity. Ultimately reducing our impact on the environment. New recyclables that are currently included in virtually all systems are:

- EPS - new grind from local EPS manufacturers is incorporated into our lightweight plaster products such as LiteRock, and MAX render.
- Glass - refined recycled glass is incorporated into all Rockcote base renders replacing a natural component of sand as a filler.

Relationships



New Zealand Made



Member of New Zealand Green Building Council



Date last validated: **12 January 2021**



Date last updated: **12 January 2021**

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