

Resene Construction Systems Masonry Overlay System - Graphex

Product Technical Statement: 103479



Designed as a Neopor insulating product over concrete block or bricks then plastered and painted

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either an independent assessment or reference to an industry-based scheme



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

BRANZ Appraisal

[706](#)

Technical Statement

Product Description

The Masonry Overlay System is an exterior insulating and finishing system for concrete masonry, in situ or precast concrete walls.

The system consists of Graphex (Neopor®), expanded polystyrene (EPS), extruded polystyrene (XPS) or polyisocyanurate (PIR) sheets fixed to the concrete masonry or concrete walls with adhesive mortar and mechanical anchors. The plaster coating system consists of a 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.

Scope of use

The Masonry Overlay System has been appraised as an exterior insulating and finishing system for buildings within the following scope:

- With substrates of concrete masonry, in situ or precast concrete up to 3 storeys with a maximum height from ground to eaves of 10 m.
- With floor plan area limited only by seismic and structural control joints.
- With supporting structures designed and constructed in accordance with the NZBC.
- Situated in NZS 3604 wind zones up to and including extra high.

The Masonry Overlay System has also been appraised for bond/fixing, durability and weathertightness of the exterior insulating and finishing system for concrete masonry, in situ or pre cast concrete buildings subject to specific design up to a differential design ultimate limit state (ULS) wind pressure of 2.5 kPa.

The Masonry Overlay System must only be applied on vertical surfaces except for sills, concrete-reinforced parapets and concrete-reinforced balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the requirements of the technical literature and building designer.

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 B2 Durability:** Performance B2.3.1(b), B2.3.1(c), B2.3.2
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1
- **Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.2E

Notes

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

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

The Masonry Overlay System is a Exterior Insulation and Finishing wall cladding. It is designed to be used as an external cladding system for residential and light commercial type buildings.

masterspec partner

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Supporting Evidence

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



BRANZ Appraisal
[706](#)

Product Criteria

Design requirements

The system must only be applied on vertical surfaces except for sills, concrete reinforced parapets and concrete reinforced balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the requirements of the technical literature and building designer.

Installation requirements

Installation and finishing of components and accessories supplied by Resene Construction Systems and its approved installers must be completed by trained applicators, approved by Resene Construction Systems.

Installation of the accessories supplied by the building contractor must be carried out in accordance with the Resene Construction Systems Masonry Plaster System Technical Literature and this Appraisal by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant License Class.

Maintenance requirements

Regular maintenance is essential to ensure the performance requirements of the NZBC are continually met and to ensure the maximum serviceability of the system.

Regular cleaning (at least annually) of the paint coating is required to remove grime, dirt and organic growth and to maximise the life and appearance of the coating. Grime may be removed by brushing with a soft brush, warm water and detergent. Paint systems must be recoated at approximately 7-10 yearly intervals in accordance with the paint manufacturer's instructions

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 products 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 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: **09 August 2021**



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