

Resene Construction Systems INTEGRA Lightweight Concrete Facade System

Product Technical Statement: 102335



Cavity based exterior Plaster System applied over INTEGRA aac concrete panels

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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

[681](#)



Technical Statement

Product Description

The Integra Light Weight Concrete Façade System is a pressure-moderated, cavity-based external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

The system consists of autoclaved aerated concrete (AAC) panels (Integra panels) fixed over high-density polystyrene or timber battens to form a 20 or 40 mm cavity. The coating system consists of a minimum 5 mm thickness of fibreglass mesh reinforced polymer-modified plasters and high-build, tintable finishing plasters. The plaster is finished with a tintable protective finishing coat. The plaster can be applied to give different texture appearances.

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 or 40 mm drained cavity.

Scope of use

The Integra Light Weight Concrete 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 Integra Light Weight Concrete 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 or 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 Integra Light Weight Concrete Façade System must only be installed on vertical surfaces (except for tops of parapets, sills and balustrades, which must have a minimum 10° slope and be waterproofed in accordance with the technical literature).

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 Integra Light Weight Concrete Façade System relies on the joinery meeting the requirements of NZS 4211 for the relevant wind zone or design wind pressure.)

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, B1.3.3
- **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

masterspec partner

Company Contact Details



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



BRANZ Appraisal
[681](#)

Product Criteria

Installation requirements

To be supplied and installed by a LBP and 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 Rockcote 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

Videos

[INTEGRA lightweight concrete - install](#)



Date last validated: **12 January 2021**



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