

**Product name:**

# Integra AAC

**Product Line:**

Substrates

**Product description and its intended use:**

Integra AAC is a premium product used as a facade and flooring material over timber-framed and steel-framed buildings. Integra is a high-performance, autoclaved aerated concrete that is reinforced with a steel mesh.

- Installed on a cavity to the facade of the exterior of buildings
- Installed as a flooring substrate
- Installed as a central barrier of Intertenancy Systems

An inert, rigid product that ensures good acoustic and fire resistance properties.

**Product identifier:**

The product name is printed on the end of the panels. The product also comes with a wrap protecting the panel.

**Place of Manufacture:**

China

**Legal and Trading Information:**

Legal and trading name of the importer(s):	Rockcote Resene Limited
Address of the Manufacturer:	32-50 Vogel Street, Naenae, Lower Hutt
Website Address:	<a href="https://reseneconstruction.co.nz">https://reseneconstruction.co.nz</a>
Email Address:	<a href="mailto:help@reseneconstruction.co.nz">help@reseneconstruction.co.nz</a>
Phone Number:	0800 507040
NZBN:	9429034745786

This product is not subject to a warning or ban under s26 of the Building Act.

**Relevant Building Code clauses:**

- Clause B1 - Structure - Performance B1.3.1, B1.3.2 and B1.3.4
- Clause B2 - Durability - Performance B2.3.1 (b) 15 years, B2.3.1 (c) 5 years and B2.3.2
- Clause E2 - External Moisture - Performance E2.3.2
- Clause F2 - Hazardous Building Materials - Performance F2.3.1

**How the building product is expected to contribute to compliance:**

This product is used and has been tested as part of a wider system.

B1 - This product has a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout its life. This product has a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout its life and during construction or alteration when the building is in use. This product has made allowance for the requirements of this functional requirement.

B2 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement. Based on material properties and history of use, this product has been assessed to have a durability of at least 15 years when installed as part of a system. This product must be installed in accordance with the relevant specifications outlined in the design section of this document.

E2 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement.

F2 - This product is safe when handled in accordance with its Technical and Safety DataSheet. Dust resulting from sanding and mixing compounds may be a respiratory irritant, and the use of suitable respiratory protection is required. This product meets the requirements set out in F2 and will not present a health hazard to people once installed.

**Limitations on the use of the building product:**

Resene Construction Systems recommends that this product be applied by a licensed tradesperson who has extensive experience in applying these products for similar applications to your particular project. The success of each project requires the tradesperson to have a thorough technical knowledge of appropriate building design, substrate conditions and client expectations to determine if this product fits the purpose expected for your project.

It should be noted that Resene Construction Systems products do not satisfy code requirements on their own but deliver code-compliant performance when used as part of a Resene Construction System's system and installed in accordance with the specific specifications.

**Design requirements that would support the use of the building product:**

Specific applications, design and installation instructions are available for each system on our website. This outlines where this product should be installed as part of the wider system.

Typical thicknesses:	50mm/75mm
Board density:	550kg/m <sup>3</sup>
Thermal Conductivity:	0.1496 W/mK (Average 23°)(m <sup>2</sup> K/W)
Thermal Resistance R-Value:	50mm - R0.331
Compressive Strength:	4.00N/mm <sup>2</sup>
Flexural Strength:	1.00N/mm <sup>2</sup> or above
Shear Strength:	0.50N/mm <sup>2</sup> or above
Tensile Strength:	0.50N/mm <sup>2</sup> or above
Modulus of Elasticity:	1800N/mm <sup>2</sup> or above
Water Transmissibility:	1.59 w(kg/(m <sup>2</sup> x h0.5)
Combustibility:	The material is NOT deemed COMBUSTIBLE according to

the test criteria specified in Clause 3.4 of AS 1530.1-1994.

**Installation requirements:**

Installing as a wall system

Panels are installed horizontally. Vertical panel edges may be jointed on-stud or off-stud. Horizontal panel edges do not require edge fixing. Vertical panel joints must be staggered for each row (stretcher bond pattern). The panel must be supported at fixing locations with a vertical batten or spacer (minimum 100mm long). At the base of the wall, the panel must hang a minimum of 50mm below the supporting framing.

The minimum width of the panel that can be installed is 100mm wide. If you need to install panels in smaller widths, you must ensure care is taken. This must include predrilling the panel and ensuring there is steel running through the panel. You should also install control joints on either end of the small width. Alternatively, consider substituting the Integra for Graphex or EPS in the same thickness to ensure that control joints are formed where it junctions with the rest of the cladding.

Check should be made using a straight edge to ensure the wall is flat, plumb and true. Any irregularities should be removed by straightening using a rasp or cup-stone grinder.

The Render coating is not designed to straighten deviations that exceed the specified Render System thickness.

Once the substrate is deemed ready for plaster, the main contractor can continue to fix the internal linings. This is so that the main contractor can minimise the chance of any damage to the external plaster cladding that may be caused by the fixing process of the internal linings.

All external corners must maintain a stretcher bond pattern.

All internal corners have an option of maintaining a stretcher bond pattern or butting the panel in hard to the adjacent wall.

Apply AAC Adhesive/MultiStop Bedding Compound to all panel joins, ensuring an even spread of mortar through the entire panel join. Ensure that any excess mortar does not fall into the cavity.

Using one of the products below, make sure that all exposed steel has been spot-primed

Resene Galvo-Prime – Brush applied waterborne galvanised iron primer

Zinc-rich spray pak primer/solvent borne – exterior solvent-borne Spray application

**Maintenance, Environmental and Safety Requirements:**

Ensure that any excess product is disposed of at the appropriate Refuse Stations

Material Safety Data Sheets are available upon request or access directly from

<https://reseneconstruction.co.nz/technical-library/safety-data-sheets/>