INTEGRA Lightweight Concrete Façade System
Our INTEGRA Façade System is a premium cavity based, rainscreen Plaster Façade System applied over INTEGRA, reinforced lightweight concrete panels.

Our INTEGRA Plaster Façade System offers you a complete facade system in a cost effective manner whilst providing Thermal, Acoustic and Impact resistance benefits, all the while protecting the structure.

**Proven Technology**

The INTEGRA Façade System incorporates INTEGRA lightweight concrete panels, fixed over the time tested cavity construction method along with our exclusive EdgeSeal flashing technology. Protected with our 6 layers of hand applied reinforced render, texture & paint. All finished with your choice of texture from our wide range incorporating ‘genuine’ Resene colours.

**Attractive and Durable**

This System carries our written Performance Guarantee, Workmanship Warranty from your qualified LBP Registered Plasterer.

The INTEGRA Façade System includes our premium OnSite Quality Assurance programme providing surety of performance from installation to finish.
System Features

- Cavity based Façade System
- Hand Plastered
- Registered LBP plasterer application
- Performance Guarantee
- Patented EdgeSeal window flashing suite
- Reinforced Lightweight Concrete Panel
- ‘Genuine’ Resene Colour Range
- Technical OnSite Quality Assurance
- Seismic and Weathertight tested (BRANZ)
- BRANZ Appraisal # 681

1. Resene X 200
2. Pre-Coloured Texture
3. Resene Limelock
4. PM100 Quick Render
5. Fibreglass Reinforcing
6. PM100 Quick Render
7. INTEGRA Lightweight Concrete
8. Cavity Battens
Integra Lightweight Concrete Facade System - Integra 50mm Panel on 20mm Cavity - Acrylic RenderSpec

General

Description of Works/Specification Notes

This specification deals with Integra Lightweight Concrete Facade System applied over a 50mm Integra Panel substrate. The system incorporates the installation of a 20mm vented cavity and pre-coloured acrylic texture finish.

Properties

Integra Panels have the following material properties:

- Dry Density: 520kg/m3
- Compressive strength: 4mPa
- Modulus of Elasticity, E: 1800MPa
- Thermal Conductivity: 0.12 W/(mk)
- Thermal Resistivity, R: 0.29m2K/W
- Substrate Thickness: 50mm Integra panel
- Total thickness: 55 mm (min/average) coatings and substrate
- Weight: 32 kg/m2 coatings and substrate, considered a Medium weight cladding in terms of NZS3604
- Windzone: All wind zones of 3604

Building Code Compliance

If the project has a building consent then the following clauses apply.

Durability

The work covered by this part of the specification has been designed and constructed to meet the durability performance requirements of NZBC B2.

On Going Maintenance Instructions

Provide ongoing maintenance instructions required to meet the performance requirements of the NZBC.

Substrate

All the appropriate inspections are to be carried out by a BCA representative and that it complies with the NZBC requirements.

Documents

Abbreviations

The following abbreviations are used throughout this work section:

Documents to also refer to where applicable

- NZBC B1 Structure
- NZBC B2 Durability
- NZBC E2 External Moisture
- NZBC F2 Hazardous Building Materials
- AS/NZS 1170.2 Structural design actions - Wind actions
- NZS 3602 Timber and wood-based products for use in building
- NZS 3603 Timber structures standard
- NZS 3604 Timber framed buildings
- BRANZ Bulletin 353 Ground clearances
- BRANZ Bulletin 418 Weathertightness do's and don'ts
- BRANZ Bulletin 439 Condensation risk in walls

Manufacturers Documents
Resene Construction Systems Technical Resources
Resene Construction Systems TradeSpec
Resene Construction Systems Project Guide
Resene: Total Colour System

Copies of the above relevant company documents referred to in this specification are available at:

Resene Construction Systems
Web: reseneconstruction.co.nz
Telephone: 0800 50 70 40

Resene Paints
Web: resene.co.nz
Telephone: 0800 RESENE (0800 737 363)

No Substitutions

Substitutions are not permitted to any specified Resene Construction Systems system. Materials and execution to Resene Construction Systems specification except where varied by this specification and supported by architectural detailing.

Qualifications

Use only LBP registered plasterers licensed to apply the Resene Construction Systems exterior render systems.

Documentation

Finish Sample

Submit one 300 mm x 300 mm sample of the selected texture finish and colour for approval on request by the main contractor or specifier. Obtain signature of acceptance on sample and return to the Registered Plasterer.

Maintenance Instructions

Provide Resene Construction Systems Maintenance Guide on or before practical completion of the contract for issuing to the building owner. Resene Construction Systems Maintenance Guide to be provided on request.

Producer Statement

If the project has a building consent then a producer statement shall be supplied by the plasterer in the form as required by the BCA.

Health and Safety

Refer to the requirements of the Health and Safety in Employment Act 2015 and Worksafe NZ: Guidelines for the provision of facilities and general safety in the construction industry. If the elimination or isolation of potential hazards and risks is not possible then minimise hazards and risks in this work on site by using the proper equipment and techniques as required in the MPNZA Painters hazard handbook. Supply protective clothing and equipment. Inform employees and others on site of the hazards and put into place procedures for dealing with emergencies. Obtain from Resene Construction Systems the Material Safety Data Sheets for each product. Keep sheets on site and comply with the required safety procedures. Confirmation at the start of the project as to whether a Site Specific Safety Plan is to be produced by the Registered Plasterer prior to works starting.

Warranty

Warrant this system under normal environmental and use conditions against failure. Resene Construction Systems system warranty.

Materials: by Resene Construction Systems - 15 Years Materials only
Execution: by Registered Plasterer - 5 Years Workmanship only

OnSite Assistance

Allow to inspect the whole of the work at each stage. Determine a programme for onsite assistance including notification when each part and stage of the work is ready for inspection prior to the work commencing. Permit representatives of Resene Construction Systems to inspect the work in progress and to take samples of their products from site if requested.

Components

RCS 20mm Graphex Battens
- 40mm x 20mm H-Grade Graphex Peel and Stick Batten
- Supplied in Boxes
- 228 units in a box
- AS 1366 Part 3 Class H (with fire retardant).

RCS Drip Edge (Window Heads)
- Supplied in 2400mm Lengths
- Used with both the EdgeSeal Head Flashing and also the Universal Starter Strip

RCS EdgeSeal Head Flashing
- Supplied in 2.4m Lengths
- Generally requires the Drip Edge Flashing

RCS EdgeSeal Window Flashing
- Used for sill and jamb installations
- Supplied in 2400mm lengths

RCS Pre-meshed Corners
- Supplied in 2400mm Lengths

RCS Starter Strip (50mm Clip-On)
- Supplied in 2400mm Lengths
- Suitable for 50mm Substrates
- Allows for a 20mm Cavity

AAC Adhesive
- Polymer-modified, cement based dry plaster mix. Supplied in 20kg bags.

- View Technical Data Sheet - View Safety Data Sheet

CRC ZincIt
- Zinc Primer offers the same advantages as hot-dip galvanising by forming a highly-protective coating with 95% highest purity zinc on bare steel or iron surfaces. It is ideal for repairing damaged galvanised surfaces or as a convenient and easy-to-apply alternative if hot-dip galvanising is not available.
- Supplied in 350gm spray cans

- View Technical Data Sheet - View Safety Data Sheet

RCS Integra Panel 50mm Panels
- Dry Density: 520kg/m3
- Compressive strength: 4MPa
- Modulus of Elasticity, E: 1800MPa
- Thermal Conductivity: 0.12 W/(mk)
- Thermal Resistivity, R: 0.29m2K/W
- Substrate Thickness: 50mm Integra panel
- Weight: 32 kg/m2 coatings and substrate, considered a Medium weight cladding in terms of NZS3604
- Panel size = 2200mm x 600mm

- View Safety Data Sheet

RCS RenderPrep
- Water based acrylic polymer dispersion. Supplied in 10 litre pails.

RCS Screws 100mm Galvanised
- 14 Gauge
- 500 per box
Rockcote PM100 Quick Render Base Coat

- Polymer-modified cement-based dry plaster mix. Supplied in 20 kg bags
- View Technical Data Sheet - View Safety Data Sheet

RCS Blue Mesh (1200mm wide)

- Alkali Resistant 6mm x 5mm Weave mesh supplied in 50m rolls
- View Technical Data Sheet

Rockcote PM100 Quick Render Level Coat

- Polymer-modified cement-based dry plaster mix. Supplied in 20 kg bags
- View Technical Data Sheet - View Safety Data Sheet

Rockcote RenderPrime

- Water based acrylic polymer dispersion. Supplied in 15 litre pails.
- View Safety Data Sheet

Bostik MS Sealant (Tubes)

- 550gm Cartridges
- View Technical Data Sheet - View Safety Data Sheet

Rockcote Classico

- 100% acrylic, high-build texture coating. Supplied in 15 Litter pails
- View Technical Data Sheet - View Safety Data Sheet

Resene X200 (2 Coats)

- Acrylic reinforced waterproof membrane. Supplied in 4 and 10 litre pails. Tinted to the selected colour
- View Technical Data Sheet - View Safety Data Sheet

Installation

The following Resene Construction Systems TradeSpec® Documents can be found at http://tradespec.co.nz
All Technical Data Sheets are available at https://reseneconstruction.co.nz/tds
All Safety Data Sheets are available at https://reseneconstruction.co.nz/sds

- Building Underlays and Flashing Tapes - Timber Frame - Refer to RCS TradeSpec™ document 1.1
- Design Information - Refer to RCS TradeSpec™ document 1.2
- Checking Joinery - Refer to RCS TradeSpec™ document 1.3
- Light and Heavyweight Fixings - Refer to RCS TradeSpec™ document 1.9
- Check Timber or Steel Framing - Refer to RCS TradeSpec™ document 2.1
- Cavity and Batten Installation - Refer to RCS TradeSpec™ document 2.2
- Resene Construction Systems Flashings - Refer to RCS TradeSpec™ document 4.1
- Fastening Integra Panels to Steel/Timber Frame - Refer to RCS TradeSpec™ document 2.4
- Check and Prepare Integra Panels - Refer to RCS TradeSpec™ document 2.11
- Rockcote PM100 Quick Render Base Coat
- RCS Mesh (Standard Weave)
- Rockcote PM100 Quick Render Levelling Coat
- Rockcote RenderPrime
- Rockcote Classico Texture Finish
- Resene X200 Paint Finish (2 Coats)
- Light Reflectance Values (LRV) - Refer to RCS TradeSpec™ document 1.6
Important:

This specification must be read in conjunction with the Resene Construction Systems technical drawings. No alteration to the Resene Construction Systems RenderSpec® is permitted. This Resene Construction Systems RenderSpec® must be read in conjunction with Resene Construction Systems TradeSpec® available at http://tradespec.co.nz

All Technical Data Sheets are available at https://reseneconstruction.co.nz/tds
All Safety Data Sheets are available at https://reseneconstruction.co.nz/sds
Integra Lightweight Concrete Facade System

Technical Drawings

Foundation
Recessed Foundation
External Corner
Internal Corner
Window Sill
Window Jamb
Window Head
Soffit
Roof Apron
Vertical Control Joint

Further details are available on our website www.reseneconstruction.co.nz
Building Underlay

50 minimum

Refer to NZBC E2/AS1 for information on Ground Clearances

Vertical Batten supplied and installed by the applicator

Reinforcing Mesh

Resene Construction Systems Integra Facade System

Integra Panel 50mm (20mm Cavity)

Fastener

Starter Strip Flashing

Refer to NZBC E2/AS1 for information on Ground Clearances

Universal Starter Strip can be used in place of the Clip-On Starter Strip where preferred

TradeSpec™ and RenderSpec™ are Registered Trademarks, both Documents are available on the Resene Construction Systems website
Building Underlay

Vertical Batten supplied and installed by the applicator

Reinforcing Mesh

Resene Construction Systems Integra Facade System

Integra Panel 50mm (20mm Cavity)

Fastener

Opening cut in Integra Panel 50mm to achieve 1000mm² per lineal metre. Weatherproof Ventilated Faceplate to be installed over opening

DPC

Bituminous Paint/Tape applied by Main Contractor

MS Sealant

Optional Rendering to Foundation

Refer to NZBC E2/AS1 for information on Ground Clearances

Vertical Batten supplied and installed by the applicator

Opening cut in Integra Panel 50mm to achieve 1000mm² per lineal metre. Weatherproof Ventilated Faceplate to be installed over opening

Bituminous Paint/Tape applied by Main Contractor

MS Sealant

Optional Rendering to Foundation

Refer to NZBC E2/AS1 for information on Ground Clearances

Vertical Batten supplied and installed by the applicator

Opening cut in Integra Panel 50mm to achieve 1000mm² per lineal metre. Weatherproof Ventilated Faceplate to be installed over opening

Bituminous Paint/Tape applied by Main Contractor

MS Sealant

Optional Rendering to Foundation

Refer to NZBC E2/AS1 for information on Ground Clearances
Building Underlay continuous around corner

Premeshed Corner Flashing

Integra Panel 50mm (20mm Cavity)

Reinforcing Mesh

Fastener

Vertical Batten supplied and installed by the applicator

TradeSpec™ and RenderSpec™ are Registered Trademarks, both Documents are available on the Resene Construction Systems website

System
Integra Facade System

Substrate
Integra Panel 50mm (20mm Cavity)

Drawing Name
External Corner

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.03.00
Mesh to be wrapped continuously around the internal corner, if there is a break in the mesh then an additional layer of Sticky Mesh must be used.
Allow a 25mm Gap between the back of the joinery and external facing timber framing to allow the sill flashing to fit.

- **MS Sealant**
- **Sticky Mesh**
- **RCS EdgeSeal Flashing**
- **Reinforcing Mesh**
- **Building Underlay**

**Integra Panel 50mm (20mm Cavity)**

Allow a 25mm Gap between the back of the joinery and external facing timber framing to allow the sill flashing to fit.

**Integra Facade System**

**Integra Panel 50mm (20mm Cavity)**

**Fastener**

**Sill Flashing Tape supplied and installed by the main contractor to be run continuously along the sill and 100mm up jambs and 50mm onto the building wrap.**

**Air Seal**

**Vertical Batten supplied and installed by the applicator**

**Building Underlay**

**Scale** 1 : 2 @ A4

**Date** 1 November 2017

**Drawing Name** Window Sill

**System** Integra Facade System

**Substrate** Integra Panel 50mm (20mm Cavity)

The RCS EdgeSeal Flashing holds a patent for its innovative design - Patent # 582317

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The RCS EdgeSeal Flashing holds a patent for its innovative design - Patent # 582317
TradeSpec™ and RenderSpec™ are Registered Trademarks, both Documents are available on the Resene Construction Systems website.

Building Underlay

Vertical Batten supplied and installed by the applicator

Integra Panel 50mm (20mm Cavity)

Reinforcing Mesh

Resene Construction Systems
Integra Facade System

Air Seal

MS Sealant

Sticky Mesh

RCS EdgeSeal Flashing

Fastener

Sill Flashing Tape supplied and installed by the main contractor (minimum 100mm up jamb)

Allow a 25mm Gap between the back of the joinery and external facing timber framing to allow the jamb flashing to fit.

Sheet Drawing Name
10.06.00Window Jamb

System
Integra Facade System

Substrate
Integra Panel 50mm (20mm Cavity)

Drawing Name
Window Jamb

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.06.00
Reinforcing Mesh

Building Underlay

Vertical Batten supplied and installed by the applicator

Fastener

Sill Flashing Tape to corners supplied and installed by the main contractor

Drip Edge Flashing

RCS EdgeSeal Head Flashing

3M All Weather Flashing Tape 8067 to be installed against jamb batten to form stopend

The RCS EdgeSeal Head Flashing must be installed so that it extends 10mm either side of the jamb extrusion.

Integra Panel 50mm (20mm Cavity)

Resene Construction Systems

Integra Facade System

Sheet Drawing Name

10.07.00 Window Head - Option 1

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The RCS EdgeSeal Head Flashing holds a patent for its innovative design - Patent # 588193

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Integra Facade System

Integra Panel 50mm (20mm Cavity)

1 : 2 @ A4

1 November 2017

Drawing Name

Sheet

Window Head - Option 1

10.07.00
Reinforcing Mesh
MS Sealant
Building Underlay
Continuous Batten supplied and installed by the applicator (cavity to be closed off)

Fastener
Integra Panel 50mm (20mm Cavity)
Reinforcing Mesh
Resene Construction Systems
Integra Facade System

Vertical Batten supplied and installed by the applicator
Building Underlay

TradeSpec™ and RenderSpec™ are Registered Trademarks, both Documents are available on the Resene Construction Systems website

Resene Construction Systems

System
Integra Facade System

Substrate
Integra Panel 50mm (20mm Cavity)

Drawing Name
Soffit

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
10.08.00
Vertical Batten supplied and installed by the applicator

Building Underlay

Integra Panel 50mm (20mm Cavity)

Reinforcing Mesh

Resene Construction Systems Integra Facade System

Fastener

Starter Strip Flashing

Apron Flashing supplied and installed by the main contractor, building underlay wrapped over flashing (75mm cover to cladding)

Kick out Flashing

Universal Starter Strip can be used in place of the Clip-On Starter Strip where preferred

Refer RCS TradeSpec™ Document 1.2 for information on Roof Clearances

Metal flashing must be taped to the Building Underlay or covered with a second layer of wrap by the main contractor/window installer

Integra Facade System

Integra Panel 50mm (20mm Cavity)

Roof Apron
Reinforcing Mesh

All Control Joint spacings and setouts are the responsibility of the Designer, for suggested locations refer to RCS TradeSpec™ Document 1.4

MS Sealant
PEF Rod

Resene Construction Systems Integra Façade System
Integra Panel 50mm (20mm Cavity)
Reinforcing Mesh

Building Underlay

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TradeSpec™ and RenderSpec™ are Registered Trademarks, both Documents are available on the Resene Construction Systems website
Our Products

Resene Construction Systems

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The Resene Construction Systems network is
New Zealand wide from Keri Keri in the North to
Invercargill in the South.

Call our Onsite Assist 0800 50 70 40 for your
nearest consultant or visit our website:
www.reseneconstruction.co.nz

ROCCOTE
Premium plaster facade systems, pre-coloured, flexible
acrylic and mineral coatings for interior and exterior use.

Plaster Systems.
Mineral plasters, and textures for exterior and interior use.

ARTISAN
NATURAL MATERIALS
Bespoke range of natural plasters that enhance and define
interior and exterior environments.

NTEGRA
LIGHTWEIGHT CONCRETE SYSTEMS
Premium lightweight AAC concrete facade, flooring, and
fencing systems. Providing impact, and acoustic
resistance with the durability of lightweight concrete.

Seismolock
Reinforced plaster strengthening system offering an
economical alternative to traditional post construction
earthquake strengthening methods.

graphex.
A graphite infused insulation panel specially designed to
significantly improve external insulation of your project.

Ezyplast
INTERIOR HARDWALLED PLASTER
Gypsum-based interior hardwall plaster hand applied over
concrete blocks, masonry, bricks, metal lathe or plaster
board.

MULTI STOP
A range of patching, repairing and finishing plasters for
masonry substrates.

Villastop
Fine, sandable finishing plaster for use over cement sheet
and other masonry substrates.

Multiplast
Fibre cement sheet jointing system, and repair plaster.