INTEGRA Lightweight Concrete Flooring System
WHAT IS THE........
INTEGRA Flooring System?

A 75mm thick, reinforced lightweight concrete flooring. Modern architectural trends and requirements for comfort and durability place tremendous demands on building structures. INTEGRA Flooring System offers the flexibility to meet these demands in a cost effective manner.

Proven Technology
Lightweight concrete flooring systems are a tried and tested method of flooring around the world. Incorporating the benefits of energy efficiency, insulation, acoustic qualities, and speed of installation to create a solid, flooring structure for in residential and light commercial buildings.

The INTEGRA Flooring System incorporates Aquapel infusion at manufacture for water repellancy throughout the entire panel including double steel mesh reinforcing. The panels are screw fixed into timber joists to ensure the strength, integrity and durability of the System.

Durable
This System carries a 25 year Product Performance Warranty when supplied and installed in accordance with our specifications creating a solid, durable flooring substrate you can trust.

System Features:
- Impact resistance
- Acoustic benefits
- Energy Efficient
- Insulation
- Speedy installation
- Cost effective
- Waterproof

Resene Construction Systems
Specification
INTEGRA Flooring System.

Substrate:
75mm INTEGRA lightweight concrete panel is screw fixed over timber / steel joists.

Components:
- INTEGRA LWC Floor Panels. (1800 x 600 x 75mm)
- 14g x 100mm/150mm Galvanised INTEGRA Screws. (100mm for fixing the Integra Floor Panels, and 150mm for perimeter of floor)
- Rockcote’s MultiStop Bedding Compound.
- Resene Galvo-Prime - Brush applied waterborne galvanised iron primer or Zinc rich spray pak primer.
- Broadknife.
- Power saw with metal or diamond blade.
- Impact driver or standard drill with hex drive drill bit.
- Safety Equipment. (Gloves, Earmuffs, Eyewear, Respiratory Protection)

Panel size
75mm x 1.800mm L x .600mm W

Weight
45.5 kg per panel / 520kg per m³ dry density

Compressive Strength
4mPa

Thermal resistance
R 0.56

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INTEGRA Façade
INTEGRA Flooring
INTEGRA Fencing
GRAPHEX Insulated Façade
GRAPHEX Solid
GRAPHEX Masonry Overlay
Masonry Block
Fibre Cement
LiteRock
Brick
ICF (Polyurethane Blocks)
Till Panel
Milano Interior
Earthen Interior
Marakesh

Insulated
Impact Resistance
Acoustic
Resene Colours
BRANZ
Fire Tests
FPB
Full Render System
Substrate supplied
Acrylic Texture
Mineral Texture
Cavity System
GreenSite
Masonry Construction
Window Reveals

Resene Colours
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Masonry Construction
Window Reveals
2.6 Installing Integra Lightweight Concrete Flooring

Introduction

This specification is limited to New Zealand conditions in particular the wind and earthquake loads as set out by NZS 3604:2011 (Timber Framed Buildings) and AS/NZS1170: 2004 (Structural Design Actions). The Integra Flooring System uses the Integra panels as a flooring material, laid on top of timber floor joists. Integra panels are autoclaved aerated concrete (AAC) panels that are produced in a range of sizes and lengths.

- Dry Density: 520kg/m³
- Compressive strength : 4mPa
- Modulus of Elasticity, E: 1800MPa
- Substrate Thickness: 75mm Integra panel
- Size: 600mm wide x 1800mm long
- Weight: 45.5kg. Thermal Conductivity: 0.174W/(mK)
- Thermal Resistivity: R:0.56
- Substrate Thickness: 75mm Integra panel

NZBC Compliance:

The Integra Flooring System is constructed in accordance with the details and specification and will meet the relevant sections of the New Zealand Building Code (NZBC) including:

B1 - Structure.

The Integra Flooring System is constructed in accordance with this specification can support a maximum live load of 3kpa.

F2 – Hazardous Building Materials

The dust from cutting the panel is irritating to the eyes, skin and respiratory system. Inhalation may cause health problems. When cutting, grinding or drilling panels do so in the open space or in well ventilated spaces and wear approved safety glasses and dust mask. All methods of cutting, grinding and drilling must comply with the latest OSH regulations. Provided appropriate safety equipment is used when cutting (eg. Safety Glasses, Hearing protection and Dust Masks are used) and appropriate precautions are made when handling and lifting then this system will meet the requirements of this section.

Framing Set-out

Resene Construction Systems Integra Flooring Panels shall be laid generally in full panels wherever possible. The panels shall be laid in half stretcher bond. The panels can be readily cut to size to suit floor layout requirements and openings.

Resene Construction Systems Integra Flooring Panels must be supported on either a light timber framed system or a light steel framed system. The light timber framed system may comprise timber joists, ply webbed joists, trussed joists, laminated timber joists, timber and steel beams or any combination of the above. The floor framing system should be designed for the appropriate live load plus the in service mass of the panels.

For framing designed to NZS3604 “Timber Framed Buildings” compensation needs to be made for the extra weight of the flooring panels. Framing sizes should be selected from the appropriate table for a live load of the Design Live Load plus 0.5kPa for the Floor Panel. For example, for normal domestic loading the floor joists should be chosen from the 2.0kPa live load tables (1.5kPa + 0.5kPa). Similarly for normal domestic decks the deck joists should be chosen from the 3.0kPa (2.0kPa + 0.5kPa) live load tables

Floor Loading

Resene Construction Systems Integra Flooring Panels have been designed to support a concentrated live load of 2.7kN applied over a 0.3m x 0.3m area. Concentrated loads from load bearing walls or point loads shall be supported
by additional framing such as joists or blocking. The bearing stress in the panels shall be limited to 1.0MPa.

Panel Layout:

Timber floor joists have been sized according to maximum spans for the following spacing: 360mm, 450mm, and 600mm. Integra Floor Panels should be laid as full panels wherever possible. The panels shall be laid in a stretcher bond pattern. Integra Floor Panels can be readily cut to size to suit floor layout requirements and openings. Concentrated loads (e.g., Supporting a load bearing wall must have additional blocking or be situated over a double joist).

Bracing Walls

Where a bracing wall occurs on top of the Integra Floor System it shall have either supporting blocking or a joist directly underneath. A Gib® HandiBrac™ can be installed with a Galvanised Coach Screw fastened through the bottom plate into the supporting floor joist/blocking.

For bracing walls parallel with the floor joists the bracing wall shall either be over a joist or be supported by solid blocking. Blocking shall have a minimum width of 45mm.

Penetrations

Provided they are isolated, penetrations up to 80mm in diameter may be made in Integra Floor Panels without reducing the structural performance of the floor system. Larger penetrations or groups of penetrations should be supported by additional blocking. Penetrations should be finished using a collar or appropriate sealant.

Lateral load transfer

Panels are fixed to the floor joists using 14-gauge, 100mm long screws @ maximum 150mm centres around the perimeter of the floor area, and at 300mm centres along all intermediate joists. A minimum edge distance of 50mm is recommended from the short edge to the first screw, although screwing in on an angle is permitted. If on the short edges the panel overhangs a floor joist it must be cut back so that it is supported on this edge.

Wet Areas

Where Integra Floor Panels are being used in a Wet Area, an appropriate waterproof membrane must be installed in accordance with the manufacturer’s specifications. Please check that adhesion to the panels will not be compromised by having a dusty surface, a masonry sealer may be required prior to any membranes being installed.

Floor joist sizes

Table 1 sets out the joist sizes based on spacing of 360mm, 450mm and 600mm joist spacing.

Acoustic performance

The New Zealand Building Code requires an acoustic barrier between two tenancies to have an STC rating of at least 55. In order for a material to have an STC rating of 55 each frequency band between 125Hz and 4000Hz must have a ‘deficiency’ of no more than 8 and the sum of all deficiencies must be no more than 32. For more information regarding the acoustic values of Integra, refer to the report from Marshall Day Acoustics.

Construction joints

Construction control joints should divide the Integra Floor Panels into separate floor diaphragms.

Construction joint locations should be as follows:

- At changes in panel and joist direction
- At load bearing bracing walls to ensure that the floor diaphragm is continuous between bracing walls
- Over support walls or beams
• At 6.0 m maximum spacing

**Components**

- Integra Floor Panels
- 14g x 100mm Galvanised Integra Screw (for fixing the Integra Floor Panels)
- 14g x 150mm Galvanised Integra Screw (for fastening bottom plates)
- Resene Construction Systems AAC Adhesive (for joining Integra Floor Panels)
- Resene Galvo-Prime - Brush applied waterborne galvanised iron primer or Zinc rich spray pak primer / solvent bourn- exterior solvent borne Spray application (for priming exposed steel)
- Broad-knife
- Power saw with metal or diamond blade
- Impact Drill or Standard Drill with hex drive drill bit
- Safety Equipment (Gloves, Earmuffs, Eye-ware, Respiratory Protection)

**Installation**

Check that sub-floor/joists are straight and true

Measure 600mm in from boundary joists (where the intersecting joists run into) at both ends of the floor. Mark this with a chalk line and continue this process across the floor

Starting from the corner of one of the boundary joists you measured from, lay the first Integra Floor Panel so that it is parallel with that boundary joist. You should make sure that both of the narrower ends of the Integra Floor Panel are supported on joists/blocking. Make sure that the edge with the groove in it, is on the boundary joist edge.

Around all boundary joists the fixing centres must be at a maximum 150mm. Along all intermediate joists and blocking fixing, centres must be at a maximum of 300mm. Where 2 Integra Floor Panels meet on a floor joist/blocking, screws can be fixed by screwing in on an angle from both sides. All full sheets of Integra Floor Panels must be supported by at least 2 intermediate joists

Where cutting of panels lengthwise is required, the minimum width of cut panel allowable is 200 mm to ensure sufficient reinforcing is located in each panel. If a narrower piece is required against a floor edge, the last two panels should be reduced in width so that both exceed 200 mm in width. All reinforcing exposed on cut panels should be coated with anti-corrosion agent.

Continue along the boundary joist installing Integra Floor Panel as above, ensuring they remain parallel with the boundary joist.

Before installing any of the second row of panels you will have to apply Resene Construction Systems AAC Adhesive. The easiest way to do this is to apply Resene Construction Systems AAC Adhesive into the groove of the panel you are about to install using a Broad-knife. Take care not to over-pack the groove then carefully install the Integra Floor Panel into the tongue of the first row of Integra Floor Panels in stretcher bond. The second row of Integra Floor Panels must be installed in a stretcher bond pattern (refer to Sheet 1 “Flooring layout”). The Integra Floor Panels will have to be cut to allow this to happen. Make sure that all narrow panel ends are supported on joists.

Screw fix the panel a minimum of 150mm from either side of the panel following along the joist. Two screws are required in each panel at each joist. Screws in the end edge of the panel may be skewed to achieve the 50mm end distance requirement, larger screws (125mm) may be required in this area if you are skewing screws at a sharp angle. The screws must be wound into the panel until the head is 2mm – 3mm below the panel surface. Panels must be supported on a minimum of two joists. Screws into joists are driven without drilling of panels and excessive adhesive should be removed immediately. Screw holes are filled with Resene Construction Systems AAC Adhesive and any chips on panel edges should be filled with Resene Construction Systems AAC Adhesive.

All Bottom Plates should be screwed down using a 150mm fasteners at 300mm centres. Panel around the boundary joists must be fastened at 150mm centres, this can be achieved by screwing your panel off at 300mm centres and fastening your perimeter plate between theses fixings to achieve the 150mm centre requirement.

Continue across the entire floor making sure to keep a stretcher bond pattern. Try and keep all panel joins tidy by scraping off any Resene Construction Systems AAC Adhesive so that the joins are flush.
Make sure that all narrow ends of the Integra Floor Panels also have Resene Construction Systems AAC Adhesive applied to it before butting in the adjoining panel.

Once you have completed the flooring go around all the exposed edges of Integra Floor Panels and prime all the exposed steel using an appropriate primer.

**Floor Protection**

Once the floor has been laid we recommend that the floor panels are protected prior to finished floor coverings and preparation being completed. Thin plywood, or RAM board can be laid on top of the flooring where high traffic is expected during construction (ie. hallways and entrances). This will protect and minimise surface damage to the INTEGRA Floor panels.

**Floor Finishings**

Where the floor covering specification calls for ‘thin section’ flooring such as Vinyl and Carpet tiles, also other floor coverings with low surface defect tolerances then the floor will require the application of a Floor Levelling/surface preparation compound prior to installation of these. Carpet with underlay can generally be installed as per a standard concrete floor preparation guidelines.

**Carpets**

Installation of carpet smooth edge prior to laying carpet requires the use of specifically selected nails (Annular Grooved) as well as an adhesive. Use appropriate primer with all adhesives.

**Tiles**

As per manufacturer’s guidelines. Apply tiles to screed or adhesive as per normal floor. Screed Floors to maintain fall and/or levelling. Refer to Tile Adhesive manufacturer for Primer suitable for AAC (porous materials) to alleviate suction.

**Timber Floors**

All timber floors require a vapour barrier to be installed prior to the flooring being installed. We also recommend the use of a Floor Levelling Compound to ensure the floor is flat.

Batten fix – Anchor battens at the required centres using anchors suitable for AAC

Floating Timber Floor - Underlay / backing installed as per normal for a concrete slab.

**Vinyl (Linoleum)**

Floor levelling is generally required: Installed as per manufacturers requirements

Always consult your floor covering specialist for advice.

**Recommend Floor Levelling Screeds and Vapour Barriers**

The recommend floor levelling compound is Bostik Ul-200. The recommend vapour barrier is Bostik Moisture Seal Epoxy Water Vapour Barrier. For a full specification please contact your local Bostik Representative.

**Table 1 – Joist Sizes (NZS3604:2011)**
<table>
<thead>
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<th>Live Load (kPa)</th>
<th>Span (m)</th>
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Integra Lightweight Concrete Flooring System

Technical Drawings

Floor Layout
Timber Floor Joist
Section through Panel (lengthwise)
Section through Panel (widthwise)
Timber Floor Joist change of direction
Non-Load Bearing Wall
Load Bearing Wall
Brace Wall Fixing
Brace Wall Perimeter Fixing
Penetration (smaller than 80mm)
Penetration (larger than 80mm)
Control Joint
WANZ Bar - Option 1
WANZ Bar - Option 2

Further details are available on our website www.reseneconstruction.co.nz
Integra Flooring Tongue and Groove adhered using Rockcote MultiStop Bedding Compound

Integra Flooring butt jointed with Rockcote MultiStop Bedding Compound

Integra Fastener

Resene Construction Systems Integra Flooring System
Integra Flooring butt jointed with Rockcote MultiStop Bedding Compound

Integra Fastener

Resene Construction Systems Integra Flooring System

Timber Blocking to support butt joined edge

All panels must be supported on a minimum of 3 joists
Integra Flooring
Tongue and Groove adhered using Rockcote MultiStop Bedding Compound

Resene Construction Systems Integra Flooring System

Integra Fastener

150

150

150

150

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System
Integra Flooring System

Scale
1 : 2 @ A4

Date
1 November 2017

Drawing Name
Section through Panel (widthwise)

Sheet
30.15.04
Integra Fastener

Resene Construction Systems Integra Flooring System

Integra Flooring butt jointed with Rockcote MultiStop Bedding Compound

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System
Integra Flooring System

Scale
1 : 2 @ A4

Date
1 November 2017

Drawing Name
Timber Floor Joist change of direction

Sheet
30.15.05
Integra Fastener

150mm Integra Fastener

Non-load bearing wall

Blocking not required if wall is within 150mm of a joist and the wall contains no bracing elements

90x45 solid blocking @ 1.2m centres between joists and at each side of any door openings

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Load bearing wall must be directly over double joists

150mm Integra Fastener

Resene Construction Systems Integra Flooring System

Double Joists
the coach screw is centred over the joist or bearer below
M12x200 Galv Coach Screw fastened through the bottom plate into a floor joist

Resene Construction Systems Integra Flooring System

Integra Flooring System

System
Integra Flooring System

Scale
1 : 5 @ A4

Date
1 November 2017

Drawing Name
Brace Wall Fixing

Sheet
30.15.08
such that the coach screw is centred over the joist or bearer below

M12x200 Galv Coach Screw fastened through the bottom plate into a floor joist
Expandable Foam Seal around the penetration

80mm diameter maximum

Resene Construction Systems Integra Flooring System

Penetration (smaller than 80mm)
penetration greater than 80mm diameter

Expandable Foam Seal around the penetration

Resene Construction Systems Integra Flooring System

Solid blocking either side of penetration

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penetration (larger than 80mm)

Integra Flooring System

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System
Integra Flooring System

Scale
1 : 2 @ A4

Date
1 November 2017

Drawing Name
Penetration (larger than 80mm)

Sheet
30.15.11
MS Sealant

PEF Rod

Resene Construction Systems Integra Flooring System

150 mm minimum

Timber Blocking to support butt joined edge

System
Integra Flooring System

Scale
1 : 2 @ A4

Date
1 November 2017

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Drawing Name
Control Joint

Sheet
30.15.12
Integra Fastener
Resene Construction Systems Integra Flooring System

H3.1 Timber Cavity Battens @ 100mm centres

Integra Flooring System

System
Integra Flooring System

Substrate
75mm Integra Panel

Drawing Name
WANZ Bar - Option 1

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
30.15.13
Integra Fastener
Resene Construction Systems Timber Floor Joists
Bearer
Timber Foundation Pile

System
Timber Floor Joists

Substrate
75mm Integra Panel

Drawing Name
WANZ Bar - Option 2

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
30.15.14
Our Products

Resene Construction Systems

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Auckland
Distribution
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Fax: 09 443 4175

Wellington
Telephone: 027 445 5503

Tauranga
Telephone: 07 2811263
Fax: 07 281 1274

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.

INTEGRA
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.