

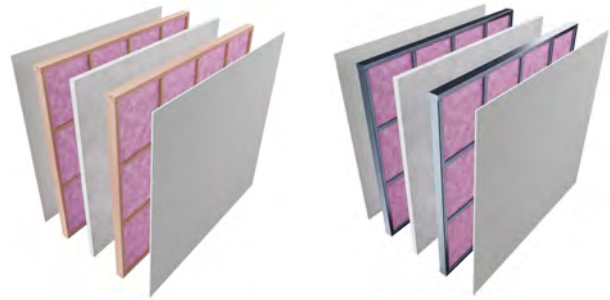
Working with **INTEGRA**®

Central Barrier Intertenantancy System



INTEGRA® Central Barrier Intertenancy System Components

for Timber and Steel Frame



INTEGRA® PANELS

Manufactured from Autoclaved Aerated Concrete (AAC), with coated steel wire reinforcing mesh, in a standard width of 600mm and a length of 2200mm.

THICKNESS	50mm
PANEL WEIGHT	36 - 42kg

FASTENERS

TIMBER FRAME



Fixing angle
Bracket to Timber
Frames

12 X **45** HEX S/DRILL
WOOD T17 ZINC



Fixing angle
Bracket to
INTEGRA® panel

12 X **65** HEX S/
DRILL WOOD
T17 ZINC

STEEL FRAME



Fixing angle
Bracket to Steel
Frames

16 X **25** HEX Drill
tip T17 ZINC



Fixing angle
Bracket to
INTEGRA® panel

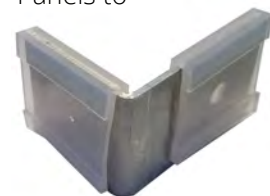
12 X **65** HEX S/
DRILL WOOD
T17 ZINC



20 panels per pack
720-880 kg

Acoustic Bracket

The INTEGRA® acoustic angle bracket with Silicone dampener are used to attach INTEGRA® Panels to the timber or steel frame.






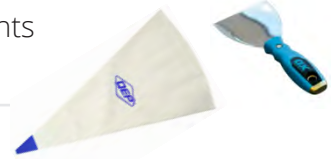


ZINC spray pak

If INTEGRA® Panels are cut to size, all exposed reinforcing steel must be treated with ZINC Corrosion Protection.



Basic Tools required;

TOOL	USE	
CIRCULAR SAW WITH Turbo Masonry BLADE	for cutting panels	
IMPACT DRIVER WITH 8mm Hex Head socket	for installation of panel fasteners	
DRILL WITH 4mm drill bit	for drilling pilot holes through panel	
VACUUM	for dust extraction purposes while cutting INTEGRA® panels (Class M or H industrial vacuum)	
MIXING DRILL /MIXING BUCKETS	mixing INTEGRA® aac Adhesive	
SPATULA OR GROUT BAG	applying INTEGRA® aac Adhesive to panel joints	

CUTTING PANELS

INTEGRA® panels can be cut easily to the required length or width using cordless or cable power tools.

Masonry Turbo blades cut easily through the INTEGRA® panel. Take care when cutting through the wire reinforcing within the panel.

INTEGRA® Panels are delivered to site flat packed with protective wrapper. The packs can be used as a cutting bench for other panels as required.

Keep the outer wrapper to cover unused panels.





FIREWOOL™

A non-combustible, mineral wool must be used to provide fire protection at the vertical and horizontal end of walls as shown in the architectural drawings.

Resene Construction Systems **FireWool™** has been tested to meet the fire requirements and is available in rolls that have been pre-cut into 100mm widths for ease of installation.

FireWool™ 25
25mm x 100mm x 7.2m roll

FireWool™ 50
50mm x 100mm x 3.6m roll



AAC ADHESIVE

INTEGRA® AAC Adhesive comes in 20kg bags and is used to bond and seal panel joints.

INTERTENANCY KIT

Our intertenancy kits include screws, aluminium brackets and Silicone dampeners. There are two pack types - timber frame or steel frame.

We will supply a rounded up quantity of components with each Intertency Wall order.

Keep all accessories dry and weather protected



Health & Safety

HEALTH AND SAFETY

All quarry products, including bricks, concrete and **INTEGRA**[®] Panels contain Crystalline Silica, or Silica Dust. Prolonged exposure to Silica Dust without the correct PPE can be harmful and potentially cause skin irritation and life-threatening health hazards such as bronchitis, silicosis and lung cancer.

Silica dust is generated when cutting, drilling or moving the panels.

The site should be cleaned of dust regularly and when using power tools these should be fitted with an efficient, well-maintained dust extraction system.

Resene Construction Systems recommends the use of Class M or H industrial vacuum systems for dust extraction. These vacuums suitably capture the dust and also allow for disposal of the waste in a manner to minimise dust exposure.

INTEGRA[®] Panels do not contain any additives that are known to cause health problems; however, because of the risk of exposure to Silica Dust it is recommended that the correct PPE is worn.

The **INTEGRA**[®] Panel Installer is responsible for informing all employees of these Health and Safety requirements under the Occupational Health and Safety Act.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

When working with **INTEGRA**[®] Panels, it is recommended that the following PPE is worn as a minimum:

- P1 or P2 Dust masks
- Protective glasses / goggles
- Ear Plugs / Ear Muffs – Class 5
- Gloves, long sleeve shirt and long pants
- Protective footwear



INTEGRA® Central Barrier Intertenancy Wall

INSTALLATION GUIDE

Bracket set up

1. Measure in from one end of the Intertenancy wall 2200mm and pencil mark these locations on the floor continuously along the entire length of the wall.

TIP: This will identify where the **INTEGRA®** panels start and finish. It also is an easy way to locate the brackets.

2. Starting from one end of the wall, measure up 300mm and fix the first bracket to the framing (using the shortest screw)

TIP: Install a bracket at each end of the wall and run a string line along to set the bracket distances consistently along the frame.

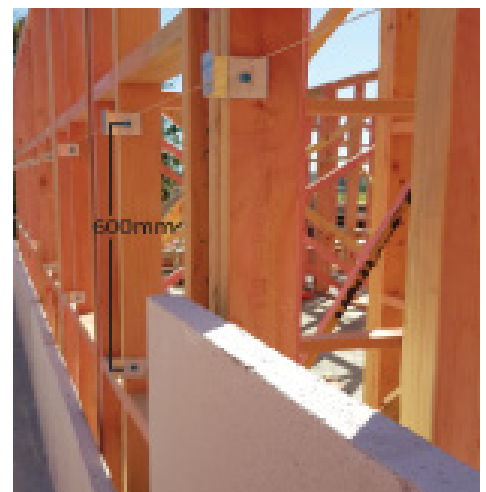
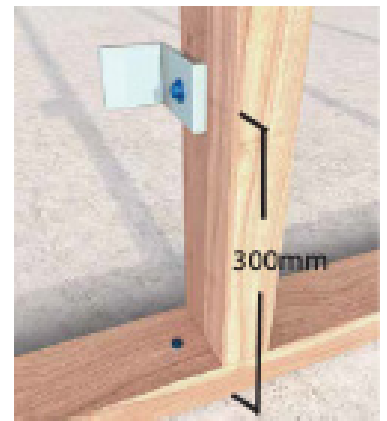
3. Position and fix 2 brackets per 2200mm x 600mm **INTEGRA®** panel. Brackets must be positioned and extended past the frame line to allow for the specified gap between framing and the **INTEGRA®** panel either minimum 20mm or up to 40mm. Slip an silicone dampener over the aluminium bracket before fixing the bracket against the framing.

TIP: The raised ridges on the silicone dampener must be set against the framing and **INTEGRA®** panel.

All other rows of brackets

Measure 600mm up from the centre of previous bracket and repeat install as above points 2 & 3

TIP: Set up all brackets before you start fitting panel.



INTEGRA® Central Barrier Intertenancy Wall

INTEGRA® panel installation

1. Install INTEGRA® panels horizontally in stack bonded pattern.

TIP: **stack bonded** is considered the fastest method as you simply repeat bracket and panel install locations.

2. Ensure each bracket has a silicone dampener sitting over the bracket before positioning the panel.
3. The first row of panel must be mortared to the floor slab using AAC Adhesive.

TIP: Apply AAC Adhesive to the edge of the panel before flipping it over to sit down on the slab.

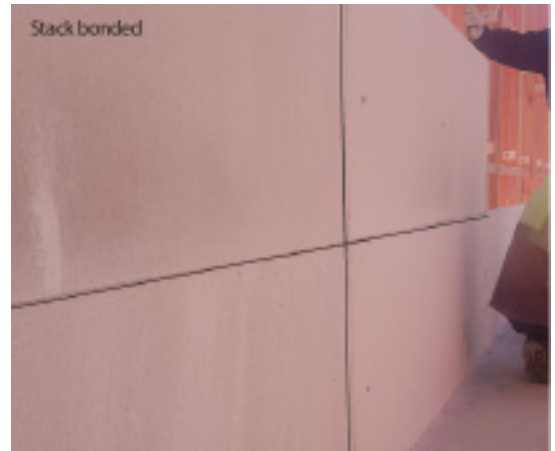
4. Position the panel down firmly to the floor and against the brackets. The ridges on the silicone dampener are to be set against the INTEGRA® panel.
5. Drill a 4mm pilot hole from the framing side through the bracket and panel to identify the location of the bracket for screwing into.
6. Screw through the panel into the fixing bracket

TIP: Hold a level against the panel to ensure it is plumb.

7. Apply AAC adhesive to the horizontal and vertical edges of the previously installed section of INTEGRA® panel - leaving no gaps in the mortar bed.
8. Install the prepared INTEGRA® panel onto/against the fresh AAC Adhesive mortar. Tap lightly to ensure a firm bond with no gaps. Flush off / remove excess AAC adhesive as you go.
Repeat install all INTEGRA® panel as above points 5-8.

Once you have reached 5 panels high, begin installing the second framed wall and repeat the fixing of brackets as per previous instructions.

Ensure brackets on the second framed wall are not positioned directly opposite the first frame brackets on the same stud. Fix the brackets to the next stud along the wall.



General information

- Sections of panels less than 600mm can have one bracket attached to them on either side of framing.
- Any damaged or cracked panels must be replaced. Minor edge damage can be repaired with AAC Adhesive.

Insulation and Lining

- Ensure the insulation completely fills the space between the framing
- Ensure insulation does not connect the **INTEGRA**[®] central barrier; *this may involve strapping tape to hold the insulation back depending on the Insulation density*
- Install plasterboard lining as per the plasterboard manufacturers specifications
- A bead of acoustic rated sealant is applied to the entire perimeter of the installed plasterboard lining
- Any gaps through the plasterboard must be sealed using an acoustic rated sealant
- Fire-rated Mineral/Ceramic Wool is to be installed between the ***underside of roof*** and ***top of the intertenancy wall*** leaving NO GAPS.

Fire-rated Mineral/Ceramic Wool is to be installed between the ***exterior facade*** at each ***end of the intertenancy wall***.

TIP: Mineral Ceramic wool must be fitted so it compresses tight against the underside of the roof layer and exterior cladding. NO GAPS!

*Call us to purchase our premium ceramic mineral **FireWool**[™] for your project.*

It is precut to 100mm widths so it makes for easy install and handling. 25mm or 50mm thicknesses are available.

For all other information reference our **INTEGRA**[®] intertenancy booklet on our website or call 0800 50 70 40 for one of our team to assist.

reseneconstruction.co.nz

0800 50 70 40

