



FRAMING GUIDELINES FOR FLOORING

ResCom FLOORING is able to be fixed to steel or timber joists at a maximum of 600mm centres and comes in a range of flooring thicknesses of 18mm and 20mm, (see loading graph).

Construction of timber framing must be in accordance with AS1684 – Residential timber framed construction.

Construction of steel framing must be in accordance with AS3623 – Domestic metal framing.

When applying to steel joists or over metal structures it is a requirement to apply a heavy bead of flexible silicon to the full surface of the metal or use a separation tape so as to remove any potential issues associated with the build-up of moisture between the substrates. This practice will also greatly assist with the lessening of potential squeaky floors and improve acoustic and thermal performances.

Edge Profile: Square Edged and ShipLap **ResCom** Flooring must be supported by joists.

Caulking the Joints: When installing ShipLap Edge flooring assure to heavily caulk the full length of the joint with a waterproof flexible caulking compound to assure an air and watertight seal to the joints. Once the caulking compound is dry remove the excess compound from the surface of the board with a metal scrapper.

It is always advised that the level and dimensional tolerances of the supporting framing be checked prior to installation for accuracy to remove unforeseen installation issues.

SPAN & LOADING GUIDELINES

ResCom FLOORING 18 mm is able to span 450mm at typical residential loading requirements of 2.0kPa live load and 1.8kN point load.

ResCom FLOORING 20mm is able to span 600mm at typical residential loading requirements of 2.0kPa live load and 1.8kN point load.

ResCom FLOORING has a minimum mean bending strength of >21MPa under either equilibrium or saturated conditions.

ResCom FLOORING is suitable for Categories A or B Class 5 conditions. Tests undertaken in accordance with clause 8.2 of AS/NZS 2908.2:2000.

When tested in accordance with AS/NZS 2908.2 2000 Sections 8.2.1 'Bending Strength' and 8.2.2 'Soak Dry' **ResCom FLOORING** demonstrated no denotable decrease to its strength and performance.

NOTE: At all times it is advised by ResCom® Global Building Products that the elements of flooring design and construction must comply with the requirements of the Building Code of Australia (BCA) and or any other applicable local authorities building and construction regulations and standards.

The design engineers and certifiers are responsible to ensure that the details in this document are appropriate for the intended application.

Engineering Evaluation Report # MGO191217

Ensure minimum class 3 to 5 non-corrosive fasteners are used for interior use. Exterior Application and wet areas use minimum SIMPSON STRONG TIE, SPAK 304 or 316 Stainless Steel fixings or similar.

For fire rated flooring systems all joints and junctions must be filled with appropriate FR/FRL rated caulking compounds.

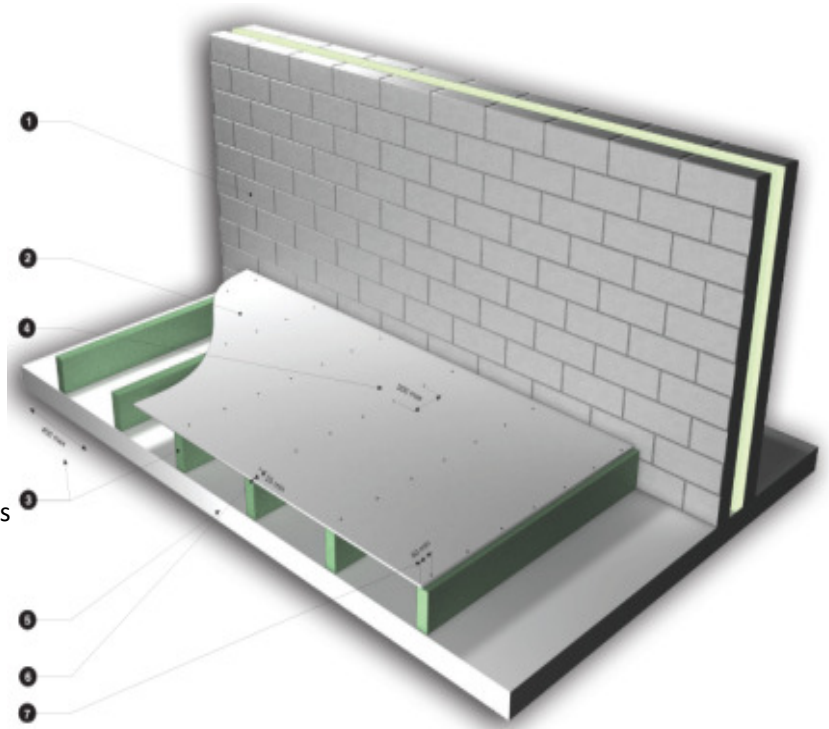
Immediately upon installation of the ResCom® Flooring it is a mandatory requirement to protect the flooring board from inclement weather and exposure to rain or water by way of sealing with LOXON® Concrete & Masonry Primer, Interior/Exterior Latex or similar or cover with waterproof tarps until weather clears. Dry with air blower if wet.

Fastener clearance, screw must adhere to the following guidelines, see figure 4:

- 12mm minimum from square edge joints
- 25mm minimum from T & G or shiplap joints
- 50mm minimum from all corners
- 200mm maximum centres along joists and blocking

	Joist Centres	1.5kPa/1.8kN	2.0kPa/1.8kN	3.0kPa/2.7kN	5.0kPa/4.5kN
16mm	400mm	✓			
18mm	400mm	✓	✓		
18mm	450mm	✓	✓		
19mm	450mm	✓	✓		
20mm	450mm	✓	✓	✓	
20mm	600mm	✓	✓	✓	

1. Solid Wall
2. One layer on ResCom® Board
3. Floor joists at max 600mm centres
4. Screws will be No.8 x 40 self-drilling countersinking type fixed at max 200mm centres and will not finish at approx. 0.5mm below surface
5. Floor concrete slab or on joists
6. Screws are 15mm from edge of shiplap joint
7. On sheet corners, keep the first screws 50mm from the edge to avoid breakage. Rest of fasteners at 12 to 15mm from sheet edges.
- 8: Support joints of board between spans with noggings
9. always Assure the engineering has allowed for variation of joist spans for point and live loads



ASSEMBLY

ResCom FLOORING can be fitted to a square or staggered layout but must be staggered for tiled or vinyl finishes.

Where waterproofing is required ensure butt joints need to have a 2mm gap and be filled with a suitable sealant prior to application of waterproof membrane.

FIXINGS:

All ways use Class 3 Fixing or higher (Non-Corrosive) Screws

FIXING to TIMBER JOISTS:

Class 3 Non-Corrosive Fixings (or higher) Required

Screws: No 8 x 40mm self embedding countersunk head screws

FIXING to STEEL JOISTS:

Class 3 Non-Corrosive Fixings (or higher) Required

Screws: No 8 x 30mm self-drilling, self-embedding countersunk screws

Approved structural adhesives and fire acoustic base adhesives may be used in conjunction with Class 3 Non-Corrosive screw fixing.

CORROSIVE ENVIRONMENTS

Climate Conditions:

Rust & Corrosion of all forms is primary issue around the world due to a lot of varying environmental situations of which need to be addressed to minimize or remove potential risks (Corrosive zones are detailed in AS4312) Failure to adhere to the requirements as detailed under the NCC when installing in corrosive zones may void any or all products warranties.

Fixtures and Fittings:

In C4 corrosive zones, fixtures and fittings must be not less than Class 4 or stainless steel. It is the responsibility of the building designer / architects to assess and specify the correct level of fixtures, fittings and installation guidelines required for the project in accordance with the ResCom® technical installation guidelines, local conditions and or the National Construction Code (NCC) within the designated country.

It is a requirement when installing by ResCom® air barrier board to use a minimum of Class 4 or stainless steel self-tapering screws, countersink the head of the screws approximately 0.05 to 1mm below the surface of the board, remove residual dust from the screw surface, cap or coat the screws with exterior caulking compound / waterproof binder sealer to protect the screws from the moisture and potential of corrosion.

Ensure all fixings are located:

- 12mm minimum from the edges
- 12mm minimum from all butt joints
- 20mm minimum from all tongue & grooves
- 50mm minimum from all corners
- 200mm centres along joists
- Ensure framing is level, clean and dry before fixing

Please refer to the head office of ResCom Global Building Products for further technical information www.rescombp.com or email: rescombp@rescombp.com