

**EJRN1TL30**

**EPB & James Hardie RAB™ Board & a Weathertight Cladding**

**Two Way FRR**

External Wall - Timber Frame

Load Bearing

System Number	Lining Suffix	Fire Rating	Insulation	Noise Control STC	Lining Requirement
<b>EJRN1TL30</b>	<b>-S10</b>	30/30/30	R2.2 glass wool	42	1 x 10mm Elephant Standard-Plus on One side James Hardie RAB™ Board with a Weathertight Cladding to Other side

**Framing, Wall Height, Load and Framing Dimension**

Timber framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability. Timber framing must be in accordance with NZS3604 stud tables for load bearing or non-load bearing partitions. Furthermore;

- Minimum framing dimension is 90 x 45mm.
- Nogs must be in place at a maximum of 800mm centres.
- Maximum stud spacing's are 600mm centres.
- The fire rated walls built close to boundary are also required to achieve post fire stability in either direction in accordance with the NZBC verification method B1/VM1, paragraph 2.2.4

Refer to latest James Hardie Fire & Acoustic Design Manual figures and tables for further instructions.

**Underlay**

**RAB™ Board**

One layer of James Hardie RAB™ Board fixed to entire framing.

6mm RAB™ Board : Use 40 x 2.8mm fibre cement nail at 150mm centres

9mm RAB™ Board : Use 50 x 2.8mm fibre cement nail at 150mm centres

Fixing to be 12mm from sheet edges

Reference to be made to the James Hardie Rigid Air Barrier Installation Manual.

**Cavity Batten**

Cavity battens as per manufacturer's technical specification.

**Weathertight Cladding**

The Exterior wall must be clad with a suitable weathertight material. Cladding fixed as per manufacturer's technical specification.

**N.B:** It is important to consider the fire properties of the external cladding is in accordance with NZBC C/VM1 or C/AS documents.

Refer to Table 5.1 of Section 5.4 of C/AS1 and Table 5.5 of Section 5.8.1 of C/AS2 for the information about various risk groups to identify the external fire spread safety requirement applicable to the exterior surface finishes.

**Cavity Insulation**

Wall cavity must be filled with Cavity Insulation between studs and nogs. Use 90mm thick R2.2 glass wool insulation.

**Elephant Plasterboard Lining**

One layer of 10mm Elephant Standard-Plus lining to internal side of framing. Vertical fixing only permitted. Use full height sheets where possible when fixing vertical. All sheet joints must be fixed over solid timber framing. Sheets shall be touch fitted.

**Fixing of Elephant Plasterboard Internal Linings**

**Fasteners**

41mm x 6g High Thread Drywall Screws

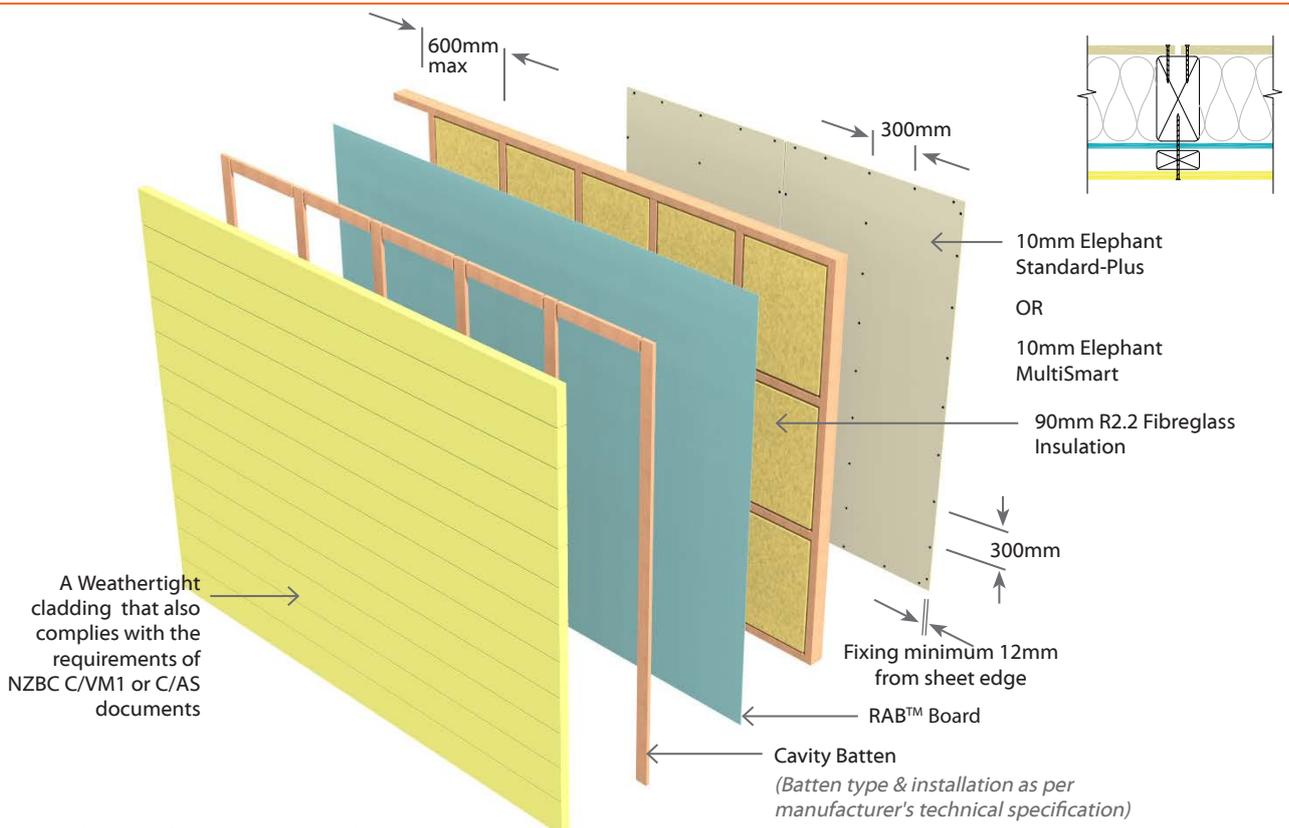
**Fastener Centres**

Fix at 300mm centres around sheet perimeter and up all intermediate studs. Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no close than 10mm from plate to stud connections.

Place fasteners no closer than 12mm from the sheet edges and 18mm from sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur.

**Jointing and Finishing of Elephant Plasterboard**

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. All in accordance with Elephant Plasterboard Installation Guide.



N.B. The above drawings are for illustrative purposes only.

