

E1DFa15**Direct Fix Clip Floor/Ceiling****Load Bearing****1** Layer: 1 Layer of Plasterboard to underside of framingSub Intertenancy **a**coustic

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC*	
E1DFa15	-S13	15/15/15	LB	48	47	43-69	1 x 13mm Elephant Standard (back blocked)

Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190 x 45mm and spaced at no more than 600mm centres. Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Consult the joist manufacturer regarding construction of the solid blocking contained in the floor/ceiling to wall junctions.

Flooring

Flooring shall be 20mm thick particle board or 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

Acoustic Clip and Battens

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens. They are spaced at 600mm centres maximum. Use 3 x 32mm x 8g Wafer Head screws. Insert first screw into the middle rubber grommet. Adjust clip to correct height. Then insert remaining two screws. Do not over tighten.

A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

Ceiling Sound Absorber

Install Sound Absorber between joists above the metal ceiling battens. Use minimum 90mm thick R2.2 glass wool Acoustic insulation.

Plasterboard Lining

One layer of 13mm Elephant Standard fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. For fire rated systems, joints formed by sheet edges shall be back blocked between furring channels with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive. Sheets shall be touched fitted.

Fixing of Linings (Non Fire Rated)

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

Fixing the Lining (to achieve Fire Rating)**Fasteners**

System Number	Single Layer
	Self-Tapping Drywall Screws
E1DFa15-S13	13mm
	25 x 6g

Fastening Centres

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres. Fasteners to be placed no closer than 12mm from sheet edge.

Acoustic Sealant

A bead of fire retardant acoustic sealant is required around the ceiling perimeter.

Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with Elephant Plasterboard Installation Guide.

Jointing

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

***Impact Insulation Class (IIC)**

IIC of 43 is achieved with a bare floor.

IIC of 44 is achieved with loose laid Vinyl.

IIC of 68 is achieved with 40oz loop pile carpet on 8mm foam chip underlay.

IIC of 69 is achieved with 40oz loop pile carpet on waffle underlay.

