

E1BC60**Battened Floor/Ceiling****Load Bearing****1 Layer: 1 Layer of Plasterboard to underside side of frame**

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC	
E1BC60	-F16	60/60/60	LB	39	38	32	1 x 16mm Elephant FireSmart (back blocked)

Floor Framing

Timber floor joists shall comply with NZS3604 with a minimum depth of 190mm x 45mm and spaced at no more than 600mm centres. Solid strutting is required in accordance with NZS 3604.

Alternatively, a proprietary I-joist system may be used subject to specific structural design and approved by the normal building consent process.

Nogs fixed on the flat to receive the ends of flooring material shall be 90mm x 45mm minimum.

Flooring

Flooring shall be nominal 20mm thick particle board or minimum 17mm thick structural plywood, fixed to the joists as per manufacturers' instructions.

Flooring sheet joints must either be formed over framing or have a polypropylene tongue and groove jointer.

Ceiling Framing

Ceiling battens to be fixed across the joists at 600mm centres maximum. Ceiling perimeter must be fully supported by framing.

Metal Ceiling Batten: Metal ceiling batten with minimum 35mm depth e.g. Rondo® 310.

Perimeter channels are required to receive the ends of the metal ceiling battens.

Wall angles or perimeter channels required at wall/ceiling junctions parallel to the metal ceiling battens.

Timber Ceiling Batten: Minimum 70mm x 35mm timber ceiling battens. Nogs or framing is required at the perimeter of the fire rated ceiling.

Plasterboard Lining

One layer of 16mm Elephant FireSmart fixed at right angles to the underside of the ceiling battens.

All sheet end butt joints shall occur on the battens.

Joints formed by sheet edges shall be back blocked between ceiling battens with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm.

Sheets to be touch fitted.

Fixing of Linings Fasteners

System Number	Single Layer	
	Metal Ceiling Batten	Timber Ceiling Batten
	Self-Tapping Drywall Screws	High Thread Drywall Screws
E1BC60-F16	16mm	16mm
	32 x 6g	51 x 7g

Fastener Centres

Ceiling sheets shall be fixed at 200mm centres along each ceiling batten and around ceiling perimeter.

Fix butt ends at 200mm centres.

Place fasteners no closer than 12mm from sheet edges and 18mm from sheet ends.

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. All in accordance with the Elephant Plasterboard Installation Guide.



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