

2 Layers: 2 Layer of Plasterboard to underside side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC	
E2FC90	-FM29	90/90/90	LB	41	40	34	1 x 16mm Elephant FireSmart and 1 x 13mm Elephant MultiSmart

**Floor Framing**

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

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

**Flooring**

Minimum 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**

Nogs fixed on the flat to receive the Elephant Plasterboard lining shall be 70mm x 45mm minimum.

Nogs or framing is required at the perimeter of the fire rated ceiling.

**Plasterboard Lining**

One layer of 16mm Elephant FireSmart & One layer of 13mm Elephant MultiSmart lining fixed directly to the underside of floor joists.

All joints must occur on joists and solid blocking.

All sheet joints should be staggered 600mm between layers.

Sheets shall be touch fitted.

**Fixing of Linings**

**Fasteners**

System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer
	High Thread Drywall Screws	
E2FC90-FM29	16mm	13mm
	51 x 7g	63 x 8g

**Fastener Centres**

Inner Layer: 150mm Centres around the perimeter of each sheet, across each joist and at the centre of each nog.

Outer Layer: 150mm centres around the perimeter of each sheet and 200mm centres along each joist and at centre of each nog.

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

Avoid outer layer screws from hitting inner layer screws.

**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**

Inner Layer: Unstopped.

Outer Layer: 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.

