

E1SJ30

Steel Joists 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	
E1SJ30	-M13	30/30/30	LB	35	34	31	1 x 13mm Elephant MultiSmart

Floor Framing

A specifically designed steel floor structure with C-section steel floor joists of 190mm minimum depth and with 45mm flanges with a steel gauge of 1.55mm. Joist spacing's at no more than 600mm centres.

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 or framing are required all around the perimeter of the fire rated ceiling and on tapered edged plasterboard joints. Use perimeter framing of minimum 35mm x 35mm x 0.55mm gauge steel perimeter angle or steel nogs.

All tapered edged pl masterboard joints must be supported by C-section steel nogs (connected to the joists) with a minimum width of 50mm and a vertical leg depth of 25mm and of minimum 0.55mm gauge.

Plasterboard Lining

One layer of 13mm Elephant MultiSmart fixed at right angles directly to the underside of floor joists.

All joints must occur on joists or nogs.

Sheets to be touch fitted.

Fixing of Linings Fasteners

System Number	Single Layer
	Scavenger Head Drill Point Drywall Screws
E1SJ30-M13	13mm
	32 x 6g

Fastener Centres

Place fasteners 150mm centres around the perimeter of each sheet. 200mm centres along each joist.

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 in accordance with the publication entitled Elephant Plasterboard Installation Guide.

