

E2SJ60**Steel Joists Floor/Ceiling****Load Bearing****2 Layers: 2 Layers of Plasterboard to underside side of frame**

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC	
E2SJ60	-M26	60/60/60	LB	39	38	32	2 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 and for intermediate sheet support. Use perimeter framing of minimum 35mm x 35mm x 0.55mm gauge steel perimeter angle or steel nogs.

Use 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. They shall be placed at maximum 600mm centres to support longitudinal sheet edges and provide intermediate sheet support.

Plasterboard Lining

Two layers of 13mm Elephant MultiSmart fixed at right angles directly to the underside of floor joists. All joints must occur on joists or nogs. All sheet joints should be staggered minimum 300mm between layers. Sheets to be touch fitted.

Fixing of Linings Fasteners

System Number	1 st Layer	2 nd Layer
	Scavenger Head Drill Point Drywall Screws	
E2SJ60-M26	13mm	13mm
	32 x 6g	41 x 6g

Fastener Centres

Inner Layer: 150mm centres around the perimeter of each sheet, across each joist and along each nog.

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

Place fasteners 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.

