

E1CJ45

Composite Joist 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	
E1CJ45*	-M13	45/45/45	LB	39	38	32	1 x 13mm Elephant MultiSmart

Floor Framing

Composite Floor joists may be either hySPAN® or hyJOIST®. Joists shall be covered by specific engineering design for strength and serviceability. A minimum depth of 190mm and spaced at no more than 600mm centres.

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

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

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 and spaced at 600mm for joists at 600mm, or at 1200mm for joists at 400 or 450mm.

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

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 and solid blocking.

Sheets to be touch fitted.

Fixing of Linings

Fasteners

System Number	1 st Layer
	High Thread Drywall Screws
E1CJ45-M13	13mm
	51 x 7g

Fastener Centres

Place fasteners 150mm centres around the perimeter of each sheet. 200mm centres across each joist and at the centre of each nog.

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

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.

***Note: For 30/30/30 FRR**

If the actual FRR required is 30/30/30, reference can be made to either E1BC30 or E1CJ30.

