

E1SC45

Suspended Grid 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	
E1SC45	-M13	45/45/45	LB	48	47	42	1 x 13mm Elephant MultiSmart (back blocked)

Floor Framing

Timber floor joists shall comply with NZS3604 and spaced at no more than 600mm centres. Solid strutting is required in accordance with NZS 3604.

Alternatively, a proprietary I-joint 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 20mm thick particle board or 17mm thick structural ply, fixed to the joists as per manufacturer's instructions.

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

Suspension System

Rondo® KEY-LOCK™ steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting top cross rails (part 128) spaced at a maximum of 1200mm centres and (part 129) furring channels at 600mm centres.

OR

Rondo ScrewFix® steel frame suspension system comprising 2.5mm wire hangers at 1200mm centres supporting F38 strong back channels spaced at a maximum of 1200mm centres and F37 furring channels at 600mm centres.

OR

Alternative suspension systems with equivalent performance characteristics and layout may be used.

Suspended Grid ceiling system to be installed as per manufacturer's specification.

Plasterboard Lining

One layer of 13mm Elephant MultiSmart fixed at right angles to the furring channels. All sheet butt joints must occur on the furring channel. Joints formed by sheet edges shall be back blocked between furring channels with strips of plasterboard equivalent to the lining thickness used and with a minimum width 300mm. They shall be adhered with a cove or cornice bond adhesive.

Sheet joints shall be touch fitted.

Fixing the Lining

Fasteners

System Number	Single Layer
	Self-Tapping Drywall Screw
E1SC45-M13	13mm
	25 x 6g

Fastening Centres

Ceiling sheets shall be fixed at 200mm centres along each furring channel, around the ceiling perimeter and at 200mm centres where butt joints occur.

Place fasteners no closer than 12mm from sheet edges.

Place fasteners no closer than 18mm from sheet ends. However this can be reduced to 12mm if sheet ends occur on furring channels.

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.

