

E3UC90

Universal Ceiling - Timber or Steel Frame

Load Bearing

One Way FRR

3 Layers: 3 Layers of Plasterboard to underside side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement	Flooring or Roofing Material
				STC	IIC		
E3UC90	-M39a	90/90/90**	LB	N/A	N/A	3 x 13mm Elephant MultiSmart	NO Polymeric foam
	-FM42	90/90/90	LB	N/A	N/A	1 x 16mm Elephant FireSmart and 2 x 13mm Elephant MultiSmart	Any Material

** N.B. System E3UC90-M39a achieves the stated fire rating with flooring or roofing materials that do not incorporate polymeric foam

Floor Framing

Timber or steel roof or floor/ceiling framing designed to meet structural criteria for strength and serviceability under dead and live loads.

The separation between the ceiling lining and any flooring or roofing material shall be 90mm minimum. Linings to be supported by framing members spaced at no more than 600mm centres and with a minimum width of 35mm.

Solid nogs shall be provided at the perimeter of the ceiling.

For timber construction, the nogs shall be 75mm x 40mm minimum.

Plasterboard Lining

Three layers of Elephant Plasterboard as per specified system above fixed at right angles directly to the underside of the framing above.

All sheet end butt joints must form on solid framing.

The joints of the each consecutive layer should be offset minimum of 300mm from those of the previous layer.

Sheets to be touch fitted.

Fixing of Linings

Fasteners

System Number	Timber Frame			Steel Frame		
	1 st Layer	2 nd Layer	3rd Layer	1 st Layer	2 nd Layer	3rd Layer
	High Thread Drywall Screws			Self-Tapping Drywall Screws		
E3UC90-M39a	13mm	13mm	13mm	13mm	13mm	13mm
	41 x 6g	51 x 7g	63 x 8g	25 x6g	41 x 6g	51 x 7g
E3UC90-FM42	16mm	13mm	13mm	16mm	13mm	13mm
	41 x 6g	51 x 7g	63 x 8g	32 x6g	41 x 6g	63 x 8g

Fastener Centres

For all layers, ceiling sheets shall be screw fixed at 150mm centres around ceiling perimeter, and at each sheet end butt joint. Fix at 200mm centres along each framing member.

Fasteners to be placed no closer than 12mm from sheet edge.

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

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, adhered using cornice adhesive 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.

