

E4SL30

Single Steel Frame

Load Bearing

Two Way FRR

4 Layers: 2 Layers of Plasterboard to each side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E4SL30	-F40	30/30/30	LB	43	42	2 x 10mm Elephant FireSmart on One side 2 x 10mm Elephant FireSmart to Other side
	-S52	30/30/30	LB	43	42	2 x 13mm Elephant Standard on One side 2 x 13mm Elephant Standard to Other side

Framing

Any steel frame designed to meet structural criteria for strength and serviceability under dead and live loads. Stud width shall be 35mm minimum. Stud spacing at 600 centres maximum.

Frame heights as determined by specific design.

Plasterboard Lining

Two layers of Elephant Plasterboard lining as per specified system above on each side of the steel framing.

Vertical or Horizontal fixing permitted. Use full height or full length sheets where possible.

For Vertical Fixing- the vertical sheet joints must be offset on the opposite side of the frame.

For Horizontal Fixing- the horizontal sheet joints must be formed over nogs and must be offset on the other side of the frame.

Sheet end butt joints- must be formed over framing and staggered. Offset joints from opposite side of the frame.

All outer layer joints must be staggered from inner layer joints.

All sheet joints must be formed over framing.

The layers are fixed hard to the floor.

Sheets shall be touch fitted.

Fixing of Linings

Fasteners

System Number	Side One		Side Two	
	1 st Layer	2 nd Layer	1 st Layer	2 nd Layer
Self-Tapping Drywall Screws				
E4SL30-F40	10mm	10mm	10mm	10mm
	25 x 6g	32 x 6g	25 x 6g	32 x 6g
E4SL30-S52	13mm	13mm	13mm	13mm
	25 x 6g	41 x 6g	25 x 6g	41 x 6g

Fastener Centres

Inner Layer: Fix at 600mm centres up each stud with no fixing to top and bottom track sections.

Outer Layer: Fix at 300mm centres up each stud with no fixing to top and bottom track sections.

Place fasteners no closer than 12mm to the sheet edge and 50mm from sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Avoid outer layer screws from hitting inner layer screws.

Jointing

Inner Layer: Unstopped

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. All in accordance with Elephant Plasterboard Installation Guide.

