

E4SL60

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	
E4SL60	-M52	60/60/60	LB	46	45	2 x 13mm Elephant MultiSmart on One side 2 x 13mm Elephant MultiSmart to Other side
	-MF52	60/60/60	LB	46	45	1 x 10mm Elephant MultiSmart and 1 x 16mm FireSmart on One side 1 x 10mm Elephant MultiSmart and 1 x 16mm FireSmart to Other side
	-MF58	60/60/60	LB	47	46	1 x 13mm Elephant MultiSmart and 1 x 16mm FireSmart on One side 1 x 13mm Elephant MultiSmart and 1 x 16mm FireSmart 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 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. All vertical joints of the inner layer must be formed over framing. Vertical joints of the outer layer should be offset to those of the inner layer. The layers are fixed hard to the floor. Sheets shall be touch fitted.

Note: For system E4SL60-MF52, The outer layer must always be 16mm Elephant FireSmart.

E4SL60-M52 & E4SL60-MF52:

Where sheet end butt joints are unavoidable, the inner layer joints must be formed over nogs. Stagger the outer layer butt joints from the inner layer by minimum 100mm.

E4SL60-MF58:

Sheet end butt joints do not need to be formed over nogs. Stagger the outer layer butt joints from the inner layer by a minimum 100mm.

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				
E4SL60-M52	13mm	13mm	13mm	13mm
	25 x 6g	41 x 6g	25 x 6g	41 x 6g
E4SL60-MF52	10mm	16mm	10mm	16mm
	25 x 6g	41 x 6g	25 x 6g	41 x 6g
E4SL60-MF58 (opt-1)	13mm	16mm	13mm	16mm
	25 x 6g	41 x 6g	25 x 6g	41 x 6g
E4SL60-FM58 (opt-2)	16mm	13mm	16mm	13mm
	32 x 6g	41 x 6g	32 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.

