

E2S30

Single Steel Frame

Non Load Bearing

Two Way FRR

2 Layers: 1 Layer of Plasterboard to each side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E2S30	-S26	---/30/30	NLB	35	34	1 x 13mm Elephant Standard on One side 1 x 13mm Elephant Standard to Other side
	-M20	---/30/30	NLB	36	35	1 x 10mm Elephant MultiSmart on One side 1 x 10mm Elephant MultiSmart to Other side

Framing

Steel studs with minimum dimensions 64mm x 34mm x 0.50 BMT with 6mm return.

Tracks to be minimum dimensions 64mm x 30mm x 0.50 BMT.

Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum.

Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs cannot be directly fixed to the tracks. The studs are held in place by the grip of the track runners.

Wall Height

Recommended maximum height is 3.0m. For higher walls refer to steel stud height table below.

Stud Dimensions (mm)	Base Metal Thickness (mm)	Stud Centres (mm)	Max Wall Heights (mm)	Expansion Tolerance at top of studs (mm)
64 x 34	0.50	600	3000	15
		400	3100	15
76 x 34	0.55	600	3300	15
		400	3700	20*
	0.75	600	3600	20*
		400	4100	20*
92 x 34	0.55	600	3800	20*
		400	4200	20*
	0.75	600	4200	20*
		400	4800	25*

* Use a minimum 50mm deep head track

Plasterboard Lining

One layer of Elephant Plasterboard lining as per specified system above on each side of the steel framing. Vertical fixing only permitted. Use full height sheets where possible.

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

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

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 (As per Specified System Above)

System Number	Side One	Side Two
	Single Layer	
Self-Tapping Drywall Screws		
E2S30-S26	13mm	13mm
	25 x 6g	25 x 6g
E2S30-M20	10mm	10mm
	25 x 6g	25 x 6g

Fastener Centres

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 and min 20mm clear of top and bottom tracks.

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

Fasteners may be placed at 18mm from sheet ends along top and bottom tracks, provided the fasteners do not connect the stud to the track. If floor deflections need to be considered, do not fix any linings to top track.

Jointing

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

