

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	
E2S75	-F32	---/75/75	NLB	38	37	1 x 16mm Elephant FireSmart on One side 1 x 16mm Elephant FireSmart to Other side

Framing

Steel studs with minimum dimensions 92mm x 34mm x 0.75 BMT with 6mm return.

Bottom tracks to be minimum dimensions 92mm x 30mm x 0.75 BMT.

Top tracks to be minimum dimensions 92mm x 50mm x 0.75 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)
92 x 34	0.75	600	3000	15
		400	3400	15
150 x 34	0.75	600	4300	20*
		400	4900	25*
	1.15	600	4900	25*
		400	5500	30*

* Use a minimum 50mm deep head track

Plasterboard Lining

One layer of 16mm Elephant FireSmart lining 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

System Number	Side One	Side Two
	Single Layer	
Self-Tapping Drywall Screws		
E2S75-F32	16mm	16mm
	32 x 6g	32 x 6g

Fastener Centres

Fix at 150mm centres up sheet edges and 300mm centres up each intermediate 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.

