

**E2SDa30**

**Double Steel Frame**

Non Load Bearing

Two Way FRR

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

Sub Intertency **a**coustic

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E2SDa30	-S26	--/30/30	NLB	52	51	1 x 13mm Elephant Standard on One side 1 x 13mm Elephant Standard to Other side
	-M20	--/30/30	NLB	52	51	1 x 10mm Elephant MultiSmart on One side 1 x 10mm Elephant MultiSmart to Other side

**Framing**

**Double Frame** - Steel studs to be of minimum dimension 64mm x 34mm x 0.55 BMT with a 6mm return.

Tracks to be minimum dimension 64mm x 30mm x 0.55 BMT. Top & bottom tracks are fixed to the floor and ceiling in true alignment. Studs are placed at 600mm centres maximum. Studs aligned. Place studs to allow the nominated expansion gap (minimum 15mm) at the top of frame. The studs are not directly fixed to the tracks. The studs are held in place by the grip of the track runners.

**Wall Heights**

Recommended maximum height is 2.7m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

**Minimum Partition Width**

Space between Frames shall be a minimum of 25mm in order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 153mm. Increasing the partition width would increase STC performance as per the table below.

Stud Size	Spaces Between Frames	Partition Width (Excludes Board)	STC Rating
64mm	25mm Min	153mm	+0
64mm	77mm Min	205mm	+2

**Wall Sound Absorber**

Install Sound Absorber between studs on one side of the double frame. Use 75mm thick R1.8 glass wool blanket.

**Plasterboard Lining**

One layer of Elephant Plasterboard lining as per specified system above on each side of the double steel framing.

Vertical fixing only permitted. Use full height or full length sheets where possible. Sheet edge and butt joints on opposite side of frame should be offset. All sheet joints must be fixed over steel framing. Sheet end butt joints must be formed over nogs. Sheets are fixed hard to the floor. Sheets shall be touch fitted.

**Fixing of Linings (Non Fire Rated)**

Fix the linings as per the Elephant Installation Guide. If an FRR is required then follow the Fixing of Linings instruction in the following paragraph.

**Fixing of Linings (to achieve Fire Rating)**

**Fasteners (As per Specified System Above)**

System Number	Side One	Side Two
	Single	
	Self-Tapping Drywall Screws	
E2SDa30-M20	10mm	10mm
	25 x 6g	25 x 6g
E2SDa30-S26	13mm	13mm
	25 x 6g	25 x 6g

**Fastener Centres**

Fix at 300mm centres up each stud with no fixing to top and bottom channel 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.

**Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing and the single layer is bedded into the bead. The perimeter junctions of the wall must be airtight.

**Jointing**

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. Wall to ceiling junctions are to be reinforced with paper tape and square stopped or finished with Cornice. All in accordance with Elephant Plasterboard Installation Guide.

