Staggered Steel Frame

February 2023

Non Load Bearing

# Two Way FRR

Full Intertenancy Acoustic

**3** Layers: <sup>1</sup> Layer of Plasterboard to one side of frame &

2 Layers of Plasterboard to other side of frame

System Number	Lining	Fire Rating	Load Bearing	Noise Control		Lining Requirement	
System Number	Suffix	Fire Rating	Ability	STC	Rw	Lining Requirement	
E3SSA60	-MS39	/60/60	NLB	56	55	1 x 13mm Elephant MultiSmart on One side 2 x 13mm Elephant Standard to Other side	
	-M39	/60/60	NLB	57	56	1 x 13mm Elephant MultiSmart on One side 2 x 13mm Elephant MultiSmart to Other side	

### Framing

E3SSA60

**Staggered Steel Frame** – Track to be a minimum size of 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Steel studs with minimum dimensions  $64 \times 34$ mm x 0.55 BMT with 6mm return. Stud to be fixed to the tracks using Staggered Stud Clip and placed at 600mm centres with a 15mm expansion gap at top of frame. Studs to be offset 300mm centres.

No other fixings to the track allowed.

#### **Wall Heights**

Recommended maximum height is 2.4m. Higher walls may be subject to specific engineering design or consult the framing manufacturer.

### **Partition Width**

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 92mm.

Track Depth	Lining	Suffix	Plasterboard	<b>Total Partition</b>
92mm	M39	MS39	39mm	131mm

### Wall Sound Absorber

Install Sound Absorber between studs of the frame. Use 75mm thick R1.8 glass wool blanket. Split 600mm wide blankets into 300mm.

### **Plasterboard Lining**

One layer of Elephant Plasterboard lining on one side and Two layers on the other side as per specified system above.

Vertical fixing only permitted. Use full height sheets where possible. All sheet joints must be fixed over steel framing. Vertical joints of the outer layer should be offset by 600mm from those of the inner layer. Sheet end butt joints must be formed over nogs and offset the outer layer joints from the inner layer.

The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

## Fixing of Linings

### Fasteners (As per Specified System Above)

	Side	Side Two				
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer			
	Self-Tapping Drywall Screws					
E3SSA60-MS39	13mm	13mm	13mm			
E3SSA60-M39	25 x 6g	41 x 6g	25 x 6g			

### **Fastener Centres**

Inner layer: Fix at 600mm centres up all studs.

Single or Outer Layer: Fix at 300mm centres up all studs.

Place fasteners minimum 12mm from 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.

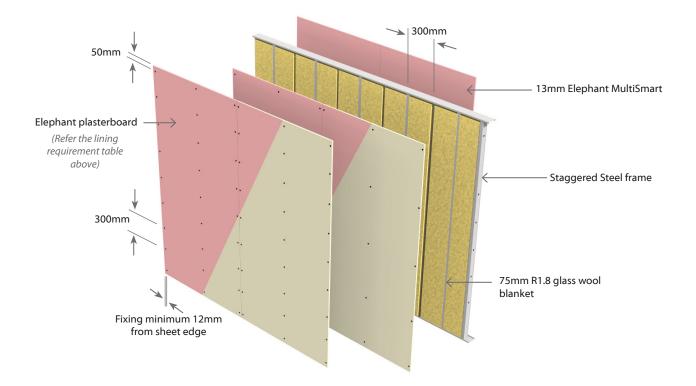
### **Acoustic Sealant**

A bead of acoustic sealant is required around the perimeter of the framing or the inner layer. The single or outer layer is then bedded onto the bead. The perimeter junctions of the wall must be airtight.

#### Jointing

#### Inner Layer: Unstopped

Outer or Single Layer: 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.



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