

**E3SQA60** Quiet Steel Frame Non Load Bearing Two Way FRR

**3 Layers:** 1 Layer of Plasterboard to one side of frame & 2 Layers of Plasterboard to other side of frame Full Intertency **A**coustic

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E3SQA60	-M33	--/60/60	NLB	55	54	1 x 13mm Elephant MultiSmart on One side 2 x 10mm Elephant MultiSmart to Other side
	-M36	--/60/60	NLB	55	54	1 x 13mm Elephant MultiSmart on One side 1 x 10mm + 1 x 13mm Elephant MultiSmart 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**

**Quiet Steel Frame** – Tracks to be 92mm x 30mm x 0.55 BMT and are fixed to floor and ceiling. Quiet Steel studs 92mm x 42mm x 0.55 BMT are friction fitted and placed at max 600mm centres with a minimum 15mm expansion gap at top of frame. No fixings to the top tracks allowed.

**Wall Heights**

Recommended maximum height is 3.6m. 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.

Stud Depth	Lining Suffix	Plasterboard	Total Partition
92mm	M33	33mm	125mm
	M36	36mm	128mm
	M39	39mm	131mm

**Wall Sound Absorber**

Install Sound Absorber between studs of the frame. Use 90mm thick R2.2 glass wool blanket.

**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. Inner layer joints on opposite side of frame should be offset. 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. The inner layers are fixed hard to the floor. Sheets shall be touch fitted.

**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.

**Fixing of Linings**

Fasteners (As per Specified System Above)

System Number	Side One		Side Two
	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer
	Self-Tapping Drywall Screws		
E3SQA60-M33	10mm	10mm	13mm
	25 x 6g	32 x 6g	25 x 6g
E3SQA60-M36	13mm	10mm	13mm
	25 x 6g	41 x 6g	25 x 6g
E3SQA60-M39	13mm	13mm	13mm
	25 x 6g	41 x 6g	25 x 6g

**Fastener Centres**

Inner layer: Fix at 300mm centres up all studs.  
Single or Outer Layer: Fix at 300mm centres up all studs.  
Place fasteners 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.

**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.

