# E3TRLa60

50 Single <u>T</u>imber Frame with Resilient <u>R</u>ail

<u>**3**</u> Layers: <sup>1</sup> Layer of Plasterboard to Framing side & 2 Layers of Plasterboard to Rail side

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Permissment
				STC	Rw	Lining Requirement
E3TRLa60	-MS39	60/60/60	LB	52	50	Framing Side: 1 x 13mm Elephant MultiSmart Rail Side: 2 x 13mm Elephant Standard
	-M39	60/60/60	LB	52	51	Framing Side: 1 x 13mm Elephant MultiSmart Rail Side: 2 x 13mm Elephant MultiSmart

#### Framing

Framing to comply with relevant sections and clauses of NZBC B1: Structure and NZBC B2: Durability.

Studs at 600mm centres maximum.

Nogs at 1350mm centre maximum.

#### Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or nonload bearing partitions. Minimum 90 x 45mm frame dimension.

## Minimum Partition Width

In order to achieve the STC ratings in the table above the partition width (excluding the board) shall be a minimum of 130mm.

Stud Depth	Rail	Lining	Suffix	Plasterboard	Total Partition
90mm	13mm	S39	MS39	39mm	142mm

# **Wall Sound Absorber**

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

### **Acoustic Resilient Mount**

The Resilient Mount shall be fixed to the studs at 600mm centres using 32mm x 8g wafer head screws. When adjusting the clip for depth, 3mm rubber must remain between the underside of the steel spacer head and the furring channel. The Furring channels are clipped horizontally into the Mounts. Joints must be made as close as possible to the clips.

### Plasterboard Lining

One layer of Elephant Plasterboard lining fixed vertically on framing side and Two layers fixed vertically on the furring channel on the other side as per specified system above.

Vertical joints of outer layer should be offset by 600mm from those of the inner layer. Use full height sheets where possible.

All sheet joints on the framing side must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs or rails and offset the outer layer joints from the inner layer. Sheets shall be touch fitted.

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

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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.

Load Bearing

#### Fixing of Linings (to achieve Fire Rating) Fasteners (As per Specified System Above)

	Resilient	Framing Side	
System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer	Single Layer
System Number	Self-Tapping	High Thread Drywall Screws	
E3TRLa60-MS39	13mm	13mm	13mm
E3TRLa60-M39	25 x 6g	41 x 6g	41 x 6g

#### **Fastener Centres**

Framing Side: Fix at 300mm centres at sheet perimeter and up each stud.

Resilient Rail Side: Fix 300mm centres along each resilient rail. Place fasteners minimum 12mm from sheet edges and sheet ends. Place fasteners at 200mm centres where sheet end butt joints occur. Avoid outer layer screws from hitting inner layer screws.

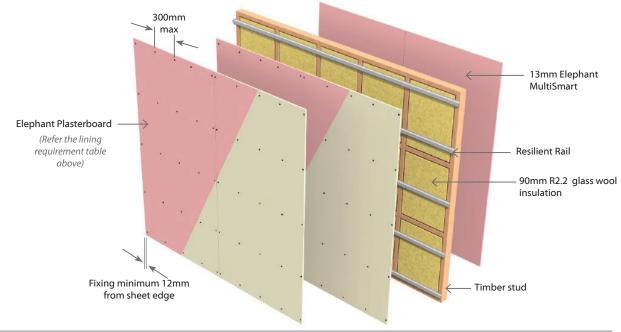
Lining screws to be fastened to the side of the studs and nogs, to ensure that they don't penetrate or touch the framing.

# **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 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.



Sub Intertenancy **a**coustic

Two Way FRR

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