

E4T90

Single Timber Frame

Non Load Bearing

Two Way FRR

4 Layers: 2 Layers of Plasterboard to each side of frame

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E4T90	-MS52	---/90/90	NLB	43	42	1 x 13mm Elephant MultiSmart and 1 x 13mm Standard on One side 1 x 13mm Elephant MultiSmart and 1 x 13mm Standard to Other side
	-M46	---/90/90	NLB	43	42	1 x 13mm Elephant MultiSmart and 1 x 10mm MultiSmart on One side 1 x 13mm Elephant MultiSmart and 1 x 10mm MultiSmart to Other side

Framing

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

Studs at 600mm centres maximum.

Nogs at 1200mm centre maximum.

Wall Height, Load and Framing Dimensions

These are determined by NZS3604 stud tables for non-load bearing partitions.

Plasterboard Lining

Two layers of Elephant Plasterboard lining as per specified system above on each side of the timber framing.

Vertical or Horizontal fixing permitted. Use full height or full length sheets where possible.

For Vertical Fixing- the vertical sheet joints must be offset on the opposite side of the frame and staggered between layers.

For Horizontal Fixing- the horizontal sheet joints on the opposite side of the frame can be formed over the same row of nogs and must be staggered between layers.

Optionally, inner layers can be fixed vertically and outer layers fixed horizontally.

Sheet end butt joints- must be formed over framing, offset from opposite side of the frame and staggered between layers.

All sheet joints must be fixed over solid timber framing.

Sheets shall be touch fitted.

Fixing of Linings

Fasteners

System Number	Side One		Side Two	
	1 st Layer	2 nd Layer	1 st Layer	2 nd Layer
	High Thread Drywall Screws			
E4T90-MS52	13mm	13mm	13mm	13mm
	41 x 6g	51 x 7g	41 x 6g	51 x 7g
E4T90-M46	13mm	10mm	13mm	10mm
	41 x 6g	51 x 7g	41 x 6g	51 x 7g

Fastener Centres

Inner Layer: Fix 600mm centres vertically up each stud and 600mm horizontally along top and bottom plate.

Outer Layer: Fix at 300mm centres at sheet perimeter and 300mm centres on all other studs.

Place fasteners 50mm from sheet corners along the top and bottom plates. On end studs place additional fasteners 50-60mm vertically and no closer than 10mm from plate to stud connections.

Place fasteners no closer than 12mm from the sheet edges and 18mm 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 Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped.. All in accordance with Elephant Plasterboard Installation Guide.

