

E4TL45

Single Timber Frame

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	
E4TL45	-S40	45/45/45	LB	42	41	2 x 10mm Elephant Standard on One side 2 x 10mm Elephant Standard 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 load bearing or non-load bearing partitions.

Plasterboard Lining

Two layers of 10mm Elephant Standard lining 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				
E4TL45-S40	10mm	10mm	10mm	10mm
	41 x 6g	51 x 7g	41 x 6g	51 x 7g

Fastener Centres

Inner Layer: Fix 600mm centres at sheet perimeters and on top and bottom plates. Fix at 600mm up each stud.

Outer Layer: Fix at 300mm centres at sheet perimeters and on top and bottom plates and 300mm centres up each stud.

Place fasteners no closer than 12mm from the sheet edges and 18mm from sheet ends.

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

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.

