

E2TDLa30

Double Timber Frame

Load Bearing

Two Way FRR

2 Layers: 1 Layer of Plasterboard to each side of frame

Sub Intertency acoustic

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E2TDLa30	-S20	30/30/30	LB	51	50	1 x 10mm Elephant Standard-Plus on One side 1 x 10mm Elephant Standard-Plus to Other side
	-S26	30/30/30	LB	52	51	1 x 13mm Elephant Standard on One side 1 x 13mm Elephant Standard to Other side
	-M20	30/30/30	LB	52	51	1 x 10mm Elephant MultiSmart on One side 1 x 10mm Elephant 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 800mm centre maximum.

Wall Height, Load and Framing Dimension

These are determined by NZS3604 stud tables for load bearing or non-load bearing partitions. Minimum framing dimension is 90 x 45mm. Space between Frames shall be a minimum of 25mm

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 205mm. Increasing the partition width would increase STC performance as per the table below.

Stud Size	Space Between Frames	Partition Width (Excludes Board)	STC Rating
90 x 45mm	25mm Min	205mm	+0
90 x 45mm	75mm Min	255mm	+2

Wall Sound Absorber

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

Elephant Lining

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

Vertical or Horizontal fixing permitted. Use full height sheets where possible when fixing vertical. Sheet joints on opposite side of frame should be offset. All sheet joints must be fixed over solid timber framing. Sheet end butt joints must be formed over nogs. Sheets shall be touch fitted.

Fixing of Linings (Non Fire Rated)

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.

Fixing of Linings (to achieve Fire Rating)

Fasteners (As per Specified System Above)

System Number	Single Layer
	High Thread Drywall Screws
E2TDLa30-S20	10mm
E2TDLa30-M20	41 x 6g
E2TDLa30-S26	13mm
	41 x 6g

Fastener Centres

Fix at 300mm centres at sheet perimeter and up 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 close than 10mm from plate to stud connections.

Place fasteners minimum 12mm from sheet edges and sheet ends.

Place fasteners at 200mm centres where sheet end butt joints occur.

Acoustic Sealant

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

Jointing

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.

