

E1UW30**Universal Timber or Steel Frame Wall****Load Bearing****One Way FRR****1 Layer: 1 Layer of Plasterboard to one side of frame (Fire side)**

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement	Cladding (Required)
				STC	Rw		
E1UW30	-F16a	30/30/30**	LB	N/A	N/A	1 x 16mm Elephant FireSmart on One side	NO Polymeric foam *

** N.B. System E1UW30-F16a achieves the stated fire rating with cladding systems that do not incorporate polymeric foam.

* N.B. Metal cladded walls require Glasswool insulation on similar (not polyester insulation).

Framing

Timber or Steel Frame designed to meet durability and structural criteria for strength and serviceability under dead and live loads.

Studs at 600mm centres maximum.

Stud width to be a minimum of 35mm.

Cavity depth to be a minimum of 90mm.

Wall Height, Load and Framing Dimensions

Timber frame : Refer to NZS3604 stud tables for height and framing dimensions of load bearing and non-load bearing partitions.

Steel frame : Refer to specific designs.

Exterior Cladding

The Exterior wall must be clad with a suitable weathertight material. E.g. Brick Veneer, fibre cement sheeting, timber weatherboards etc.

N.B. Cladding cannot contain polymeric foam. Metal cladded walls require glass wool insulation or similar, not polyester insulation.

Plasterboard Lining (Fire side)

One layer of 16mm Elephant FireSmart lining on one side of the framing. Vertical or Horizontal fixing permitted. Use full height or full length sheets where possible.

For Horizontal Fixing- the horizontal sheet joints must be formed over nogs.

Sheet end butt joints- must be formed over framing.

All sheet joints must be fixed over framing.

For steel frame, linings are fixed hard to the floor.

Sheets shall be touch fitted.

Fixing of Linings**Fasteners**

System Number	Timber Frame	Steel Frame
	High Thread Drywall Screws	Self-Tapping Drywall Screws
E1UW30-F16a	16mm	16mm
	41 x 6g	32 x 6g

Fastener Centres

Timber Frame: Fix at 300mm centres up each stud.

Steel Frame: Fix at 150mm centres up sheet edges and 300mm centres up each intermediate stud.

Place fasteners 12mm from sheet edges and 18mm from sheet ends.

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

Jointing

All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped. All in accordance with Elephant Plasterboard Installation Guide.

