

1, 2 or 3 Layers: No. of Layers of Plasterboard to one side of frame (Fire side)

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control		Lining Requirement
				STC	Rw	
E1CBT15	-S13	15/-/-	LB	N/A	N/A	1 x 13mm Elephant Standard
E1CBT30	-F16	30/-/-	LB	N/A	N/A	1 x 16mm Elephant FireSmart
E2CBT30	-S20	30/-/-	LB	N/A	N/A	2 x 10mm Elephant Standard-Plus
E2CBT60	-M26	60/-/-	LB	N/A	N/A	2 x 13mm Elephant MultiSmart
E2CBT90	-F32	90/-/-	LB	N/A	N/A	2 x 16mm Elephant FireSmart
E3CBT120	-MF45	120/-/-	LB	N/A	N/A	1 x 13mm Elephant MultiSmart and 2 x 16mm Elephant FireSmart

**Scope**

The system options provided in the table above are a quick reference solution for fire protection of structural steel columns and beams. Specific Fire engineering designs are required for specific column and beam sizes and loading conditions.

**Strapping**

The Columns or Beams are to be strapped with a nominal 50mm x 50mm timber. The linings must be supported by framing members spaced at 600mm centres maximum. No air gap is required as long as support is provided to the protective linings at 600mm centres max on each side of the structural member.

**Plasterboard Lining (Fire Side)**

One, two or three layers of Elephant Plasterboard lining as per specified system above. All joints /edges for the first, second and third layers must be formed over the framing. The joints between subsequent layers must be offset by at least 300mm.

**Fixing of Linings**

**Fasteners (As per Specified System Above)**

System Number	Lining Suffix	Single Layer	2 <sup>nd</sup> Layer	3 <sup>rd</sup> Layer
		High Thread Drywall Screws	High Thread Drywall Screws	Self-Tapping
E1CBT15-S13	S13	13mm	—	—
		41 x 6g	—	—
E1CBT30-F16	F16	16mm	—	—
		41 x 6g	—	—
E2CBT30-S20	S20	10mm	10mm	—
		32 x 6g	41 x 6g	—
E2CBT60-M26	M26	13mm	13mm	—
		41 x 6g	51 x 7g	—
E2CBT90-F32	F32	16mm	16mm	—
		41 x 6g	57 x 7g	—
E3CBT120-MF45	MF45	13mm	16mm	16mm
		41 x 6g	51 x 7g	63 x 8g

**Fastener Centres**

Fix each layer at 300mm centres maximum to framing. Place fasteners minimum 12mm from the sheet edge.

**Corner Protection**

All external corners to be reinforced with Slim Angles or USG Sheetrock Flexible Metal Tap-on corner.

**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.



