**FULL INTERTENANCY** 

Load Bearing

E2DFsA45

Direct Fixed Clip - Floor/Ceiling - steel joist

Full Intertenancy **A**coustic

System Number	Lining Suffix	Fire Rating	Load Bearing Ability	Noise Control			Lining Requirement
				STC	Rw	IIC*	
E2DFsA45	-M26	45/45/45	LB	56	55	47-74	2 x 13mm Elephant MultiSmart

### Framing

Steel floor joists shall be a minimum depth of 190mm C-section with 45mm flanges and a steel gauge of 1.55mm minimum. Joist spacing's at no more than 600mm centres.

2 Layers: 2 Layers of Plasterboard to underside of frame

## Flooring

Flooring shall be 20mm thick particle board of 17mm thick structural ply, fixed to the joists as per manufacturer's instructions. Flooring sheet joints must have a polypropylene tongue and groove jointer or be formed over framing.

### Acoustic Clip and Battens

The Acoustic Clip shall be fastened to the joists at 1200mm centres maximum (and no less than 900mm centres) to support the metal ceiling battens which are spaced at 600mm centres maximum.

Use 3 x 30mm x 10g Drill-Point Wafer Head Screws. Insert first screw into the middle slot. Adjust clip to correct height. Then insert remaining two screws. A minimum 10mm gap is recommended between the flange of the ceiling batten and the underside of the joist.

### **Ceiling Sound Absorber**

Install Sound Absorber between the joists above the metal ceiling battens. Use minimum 75mm thick R1.8 glass wool blanket.

N.B. Consider Minimum Thermal Requirements.

# **Plasterboard Lining**

Two layers of 13mm Elephant MultiSmart fixed at right angles to the metal ceiling battens. All sheet end butt joints shall occur on the battens. Offset the outer layer by 600mm from the inner layer. Sheet joints should be touched fitted.

#### **Fixing the Lining** Factoner

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System Number	1 <sup>st</sup> Layer	2 <sup>nd</sup> Layer					
System Number	Self-Tapping Drywall Screws						
	13mm	13mm					
E2DFsA45-M26	32 x 6g	41 x 6g					

#### **Fastening Centres**

Ceiling sheets shall be fixed at 200mm centres along each metal ceiling batten.

Fix butt ends at 100mm centres.

Fasteners to be placed no closer than 12mm from sheet edge. Avoid outer layer screws from hitting inner layer screws.

### **Acoustic Sealant**

A bead of fire retardant Acoustic Sealant must be applied around the perimeter of the first layer and the second layer bedded on the bead.

## Wall/Ceiling Junction

The internal angle between the ceilings and walls must be protected by Cornice or square stopped corners taped and filled in accordance with Elephant Plasterboard Installation Guide.

# Jointing

Inner layer: Unstopped.

Outer Layer: All fastener heads stopped and all sheet joints reinforced with paper jointing tape and stopped in accordance with the publication entitled Elephant Plasterboard Installation Guide.

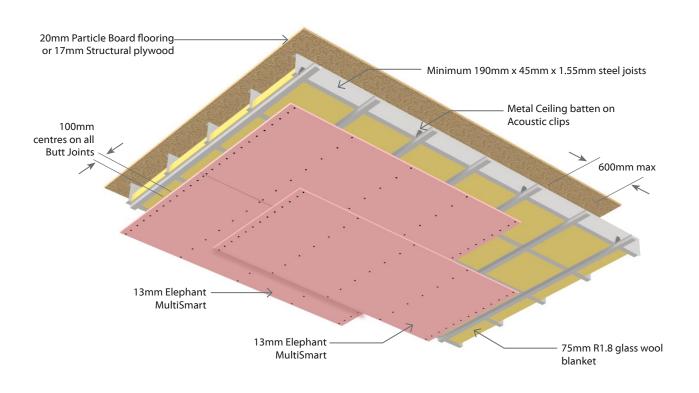
# \*Impact Insulation Class (IIC)

IIC of 47 is achieved with a bare floor.

IIC of 48 is achieved with loose laid Vinyl.

IIC of 72 is achieved with 40oz loop pile carpet on 8mm foam chip underlav.

IIC of 74 is achieved with 40oz loop pile carpet on waffle underlay.



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