ESP Resilient Bar ceiling system.







Standard layout as tested in accordance with appendix E of the robust detail part E

Application

Used in residential and commercial building, separating the direct fixing of boards to timber joists enhancing acoustic performance, meeting the requirements of building regulations approved document E. isolating the direct fixing of boards to timber to reduce defects in the finish ceiling.

Fixing:

Resilient bars W14/15/45/6 fixed to underside of joists at 400mm centres, screw fixed to every joist through 4x3mm slot with coarse thread drywall wood screw. Chamfer of underside screw head to locate against timber, (do not over tighten screw to enable movement of screw in slot).

Special attention should be taken to ensure screws only locate into the Resilient Bars and do not make contact with the joist

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ESP Resilient Bar ceiling system.

Specification:

K10 PLASTERBOARD DRY LININGS/PARTITIONS/CEILINGS METAL FRAMED SUSPENDED CEILING.

RESILIENT BAR CEILINGS

Ceiling Lining on metal framing to underside of timber joist.

- Specification Ref:
- Resilient Bar Ceiling.
- Structural Soffit: January 2005 Robust Details Appendix E base floor. Timber joists (235 x 50mm) at 450mm centres with 18mm OSB (11kg/m2) screw fixed. 100mm Crown roll (10kg/m2) between joists.
- Suspension System: Resilient bars W14/15/45/6 fixed to underside of joists at 400mm centres, screw fixed to every joist through 4x3mm slot with coarse thread drywall wood screw. Chamfer of underside screw head to locate against timber, (do not over tighten screw to enable movement of screw in slot)..
- Lining: First layer, 19mm plank (nom 13.5kg/m2) screwed to resilient bars with 32mm drywall screw. second layer, 12.5mm board (nom. 10kg/m2) screw fixed with 42mm drywall screw, through fist layer, to resilient bar, all joints staggered. Total board mass 23-25kg/m2.

Fixing: First layer Screw @ 300mm centres reducing to 150mm at perimeters, Second layer Screw @ 230mm centres reducing to 150mm at perimeters.

Screws: 32mm Drywall Screws first layer & 42mm Drywall Screws second layer. Special attention should be taken to ensure screws only locate into the Resilient Bars and do not make contact with the joist

Insulation: 100mm thick Multi-purpose matt min. density 10 kg/m²
Acoustic sealant: Location at junction between edge board and wall, and at other air paths.

Apply a continuous bead to clean, dry, dust-free surfaces, leaving no gaps. After application of sealant, bulk fill finish face of board.

- Finishing: As specified.
- Accessories:
- Other requirements:

The above construction has been tested in accordance with Appendix E of Robust details part E, exceeding the required performance.

BRE test report number 222326

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