

Technical Specification Clauses for Acoustic Ceiling System AC90/25FP

Product Reference AC90/25FP

**Clause Reference: K10 – Sections 50, 220.
K11 – Section 275.**

High performance adjustable acoustic ceiling system for enhanced airborne and impact sound insulation of existing timber floors as well as poorly performing floors. Can also be used for plant rooms.

- AC90/25FP provides additional fire resistance, tested in accordance with BS 476-21 (1987), clause 7.
- System comprises: Adjustable acoustic hangers for direct fix to existing floor joists or through existing ceiling linings into floor joists and decoupled using rubber acoustic grommets and acoustic isolation washers. Metal ceiling battens fixed to adjustable acoustic hangers. 25kg Sound Barrier tiles laid between battens. Two layers of Fireline board fixed to underside of battens.
- 90mm void as standard, but adjustable from 75 -125mm. Voids in excess of 125mm and up to 1.5m are possible but require an extension with an InstaCoustic L section added to standard hangers.
- Edge fixing: Perimeter Channels screw fixed to the walls, with intumescent sealant to all board edges.
- Install 80mm (minimum) of IN10 high resilience acoustic insulation within the ceiling void.
- Airborne and impact test results are dependent on sub-floor construction; consult with InstaCoustic Technical Department for full details. Further reductions in sound transmission can be achieved when the acoustic ceiling systems are used in conjunction with InstaCoustic Flooring systems. See InstaCoustic Product References, 108, 208, B40, B60, C30, CK30, C40 and C60.
- System weight: 55 kg/m², dependent on batten spacing and hanger length.

Substrates:

- Load tests may be required to identify suitable fixing anchor to soffit.
- Minimum Perimeter Channel fixing penetration: 30mm into substrate.
- Fixings for acoustic hangers to timber floor joists must penetrate a minimum of 30mm into the joist.

Installation:

- Consult with manufacturer.

As standard

- Structural Soffit: **[Timber Floor Joists] [Through Existing ceiling lining into joists]**
- Suspension System:
 - Hanger type: InstaCoustic adjustable acoustic hangers.
 - Top fixings: Screwed to underside of joist through acoustic isolation washer and acoustic grommet.
 - Grid centres: 450mm maximum with cross T-bar sections at 500mm. Perimeter channel fixed at 450mm centres.
 - Hanger centres: 450mm maximum from room perimeter and 900mm maximum elsewhere.
- Acoustic Insulation: 25kg Sound barrier tiles 450mm x 500mm resting on the metal T-bar battens and cross T-bar battens overlaid with 80mm IN10 high resilience acoustic insulation Min Density 14kg/m³.
- Finishing: **[Skim Plaster] [Taped Seamless Finish]**
 - Primer/Sealer: **[_____]** - Consult Plasterboard manufacturer for recommendations and details.
 - Accessories: **[_____]**
- Other: **[_____]**

Further Information:

When fixing acoustic hangers to timber floor joists, penetration into joist to be 30mm minimum. Fixings for the perimeter channel are also to penetrate the wall 30mm as a minimum.

Additional information is available from:

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