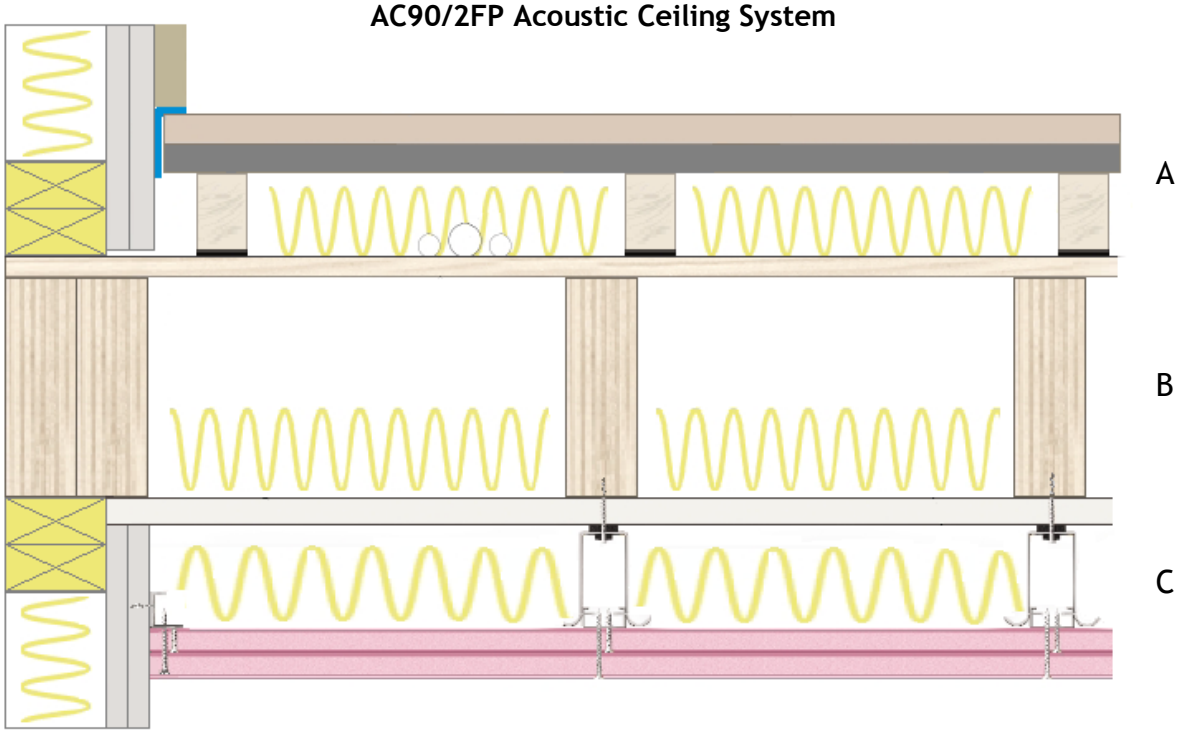
New Build - Timber Frame with Floating Floor and Sacrificial Ceiling

Problem - High performance acoustic treatment for low mass timber frame structural floor
Solution - InstaCoustic deep acoustic batten with high performance recycled rubber resilient layer and InstaCoustic high performance ceiling system with service void

A. InstaCoustic B60T Deep Acoustic Batten floor system with insulation in void
B. 240mm (min) timber I joists, 220mm (min) solid timber joists, 253mm (min) metal web joist with 100mm (min) mineral wool quilt between joists
C. Close and seal joist void with 12.5mm plasterboard
D. InstaCoustic AC90/2FP acoustic ceiling system incorporating isolation brackets with a 100mm (min) void, IN10 acoustic insulation in void

B60T Deep Acoustic Batten
AC90/2FP Acoustic Ceiling System



Field Sound Test Report - F78

Results	*Achieved On Site*	*ADE Regulations*
Airborne	50 dB $D_nT_w + C_{tr}$	45 dB $D_nT_w + C_{tr}$
Impact	52 dB L_nT_w	62 dB L_nT_w

Key Issues

- Resilient flanking strip must be applied around perimeter of floor to seal and isolate from structure
- Always use mineral wool insulation between the acoustic battens
- Service pipes in void of the acoustic floor must not come into contact with the timber battens or chipboard floor as this would cause a direct transmission path for sound
- Seal off the joist void with 12.5mm Fireline board
- Stagger plasterboard joints on suspended ceiling

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