

New Build - Concrete with Screed

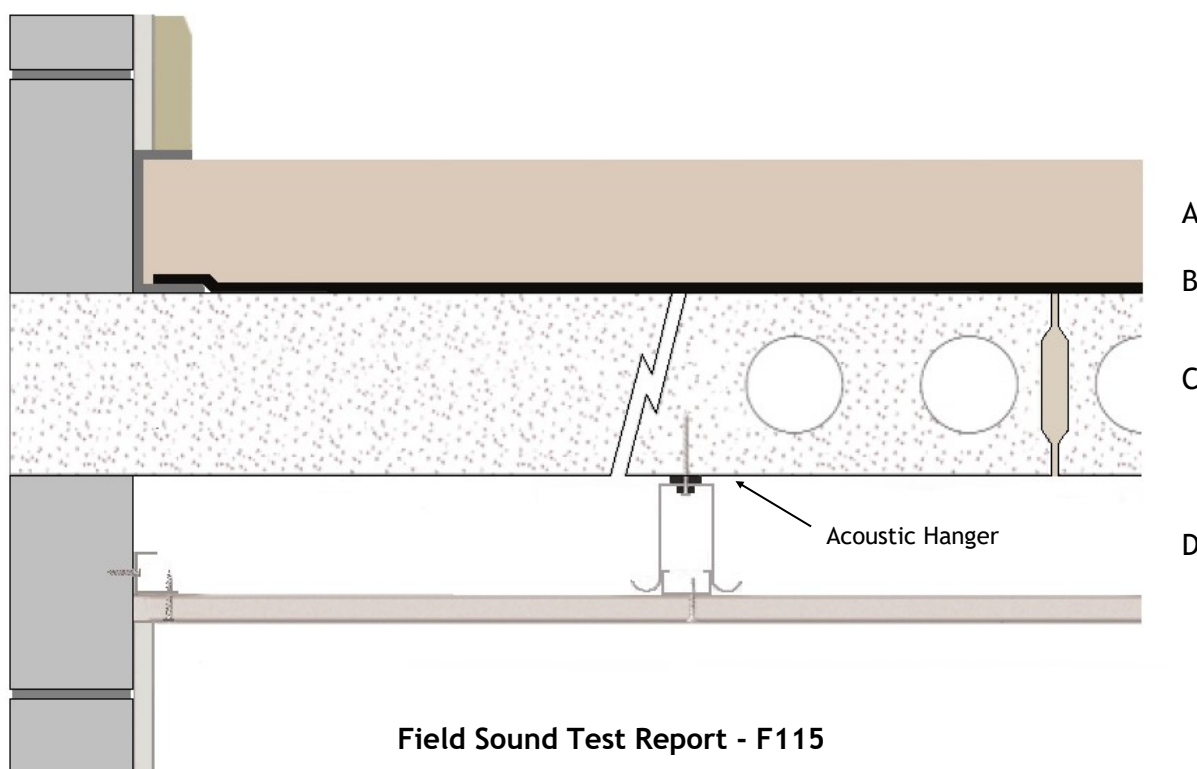
Acoustic system for concrete structural floor

Solution - Screed isolated on InstaCoustic recycled rubber crumb resilient layer with metal framed ceiling system

Robust Detail compliant, reference E-FC-13 (65mm minimum sand cement screed only)

- A. 65mm (min) sand cement or proprietary screed of nominal 80 kg/m² mass per unit area
- B. InstaLay65 resilient layer with InstaLay Edge Strip
- C. 150mm (min) precast concrete floor plank - 300 kg/m² (min) mass per unit area
- D. InstaCoustic AC90/1 Metal ceiling system incorporating acoustic hangers with 100mm (min) void

InstaLay65 Resilient Layer AC90/1 Acoustic Ceiling System



Field Sound Test Report - F115

Results	Achieved On Site	ADE Regulations
Airborne	55 dB D _n T _w + C _{tr}	45 dB D _n T _w + C _{tr}
Impact	47 dB L _n T _w	62 dB L _n T _w

Key Issues

- Ensure that the perimeter flanking strip has been fitted correctly preventing points of contact between the screed and the perimeter walls
- Screed must be isolated from the wall linings and the skirting to avoid flanking sound
- If service pipes are running within the screed no fixings must penetrate through the resilient layer
- To reduce the risk of flanking problems avoid block densities lower than 1600 kg/m³ in the wall structure
- Ceiling to be fitted before the dry-lining on the walls to improve performance
- If dot & dab is used, the centres of the dabs must be in accordance with the regulations