

Material Change of Use - Floors and Ceilings

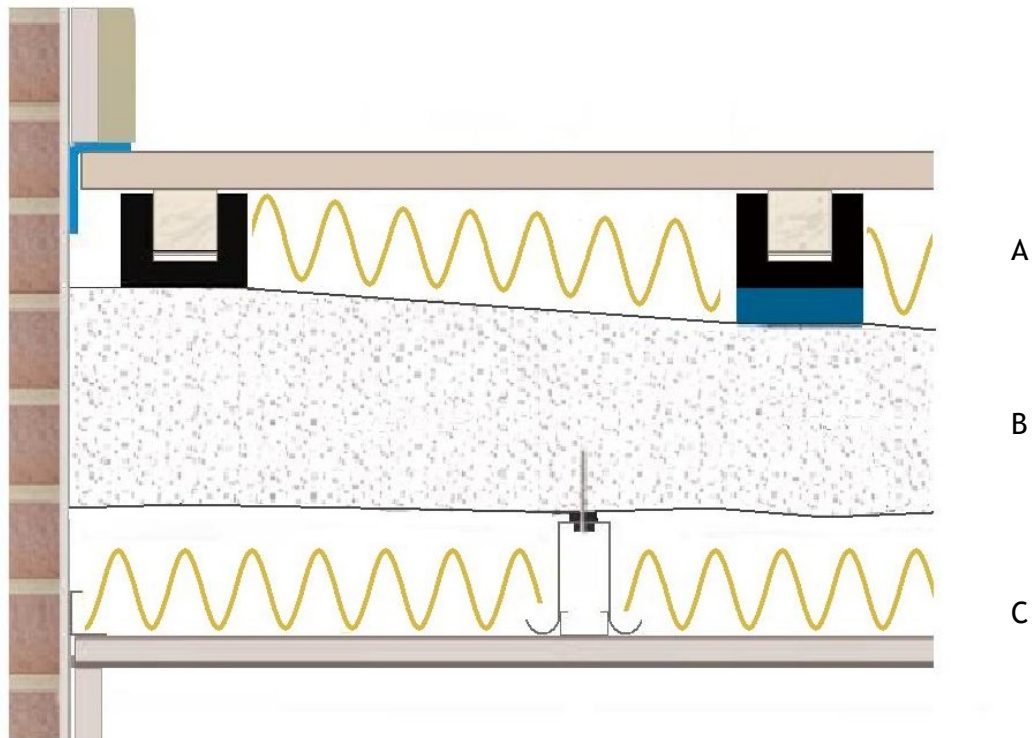
Conversion of building with existing uneven concrete floor

Solution - InstaCoustic combination adjustable cradle floor and ceiling system

- A. InstaCoustic C40 or C60 cradle & batten floor system with insulation in void (levelling capability)
- B. Existing uneven concrete structural floor
- C. InstaCoustic AC90/1 Metal ceiling system incorporating acoustic hangers with 75mm (min) void

**C40 or C60 Cradle & Batten Acoustic Floor
 AC90/1 Acoustic Ceiling System**

Please note comment below under "Key Issues" regarding flanking sound



Field Sound Test Report - F88

| Results | Achieved On Site | ADE Regulations |
|----------|-------------------------|-------------------------|
| Airborne | 50 dB $D_nT_w + C_{tr}$ | 43 dB $D_nT_w + C_{tr}$ |
| Impact | 42 dB L_nT_w | 64 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 cradle battens
- Pipes in services must not come into contact with the timber battens or chipboard floor, this would cause a direct transmission path
- 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
- Light weight wall constructions can cause flanking sound transmission which may bypass the floor solution. Please seek advice from the InstaCoustic Technical Team regarding suitable solutions