

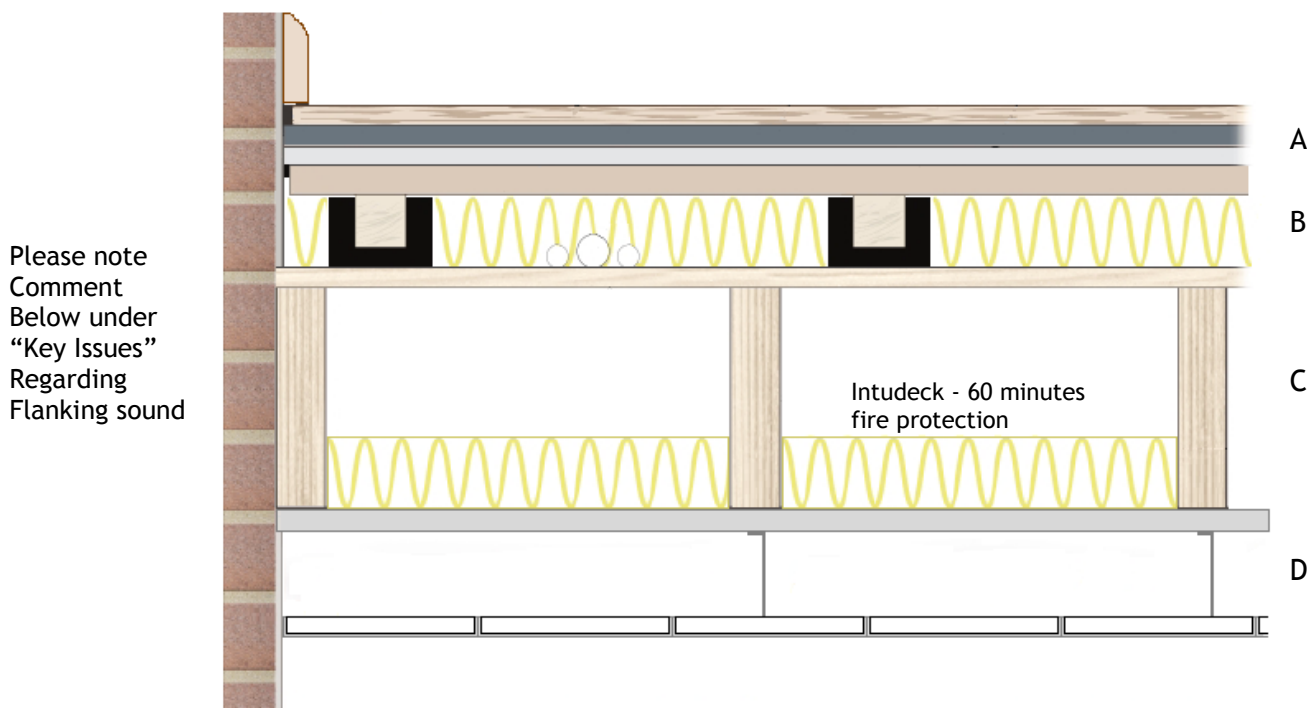
Retail Below - Acoustic Floor

Problem - Conversion of space where there is no access to retail unit below

Solution - InstaCoustic high performance dual floor system

- A. InstaCoustic 208 Overlay System
- B. InstaCoustic C40 or C60 Cradle & Batten floor system with insulation in void
- C. Existing timber structural floor with square edge / t&g floor boards and existing one layer of plasterboard / lath & plaster ceiling - Intudeck to provide 30-90 minute fire integrity
- D. Existing suspended metal ceiling system with ceiling tiles for retail unit

208 Overlay system & C40 or C60 Cradle & Batten Acoustic Floor



Field Sound Test Report - F43

Results	Achieved On Site	ADE Regulations
Airborne	56 dB $D_nT_w + C_{tr}$	43 dB $D_nT_w + C_{tr}$
Impact	53 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
- Isolate new partitions from the structural floor by using InstaCoustic rubber isolation strips
- 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