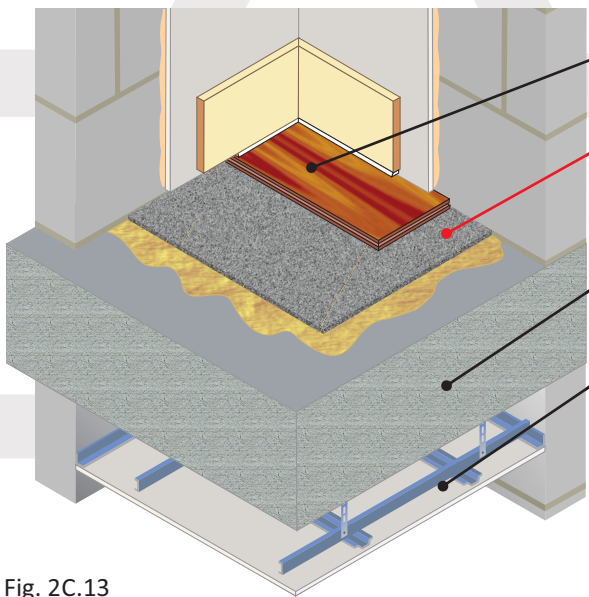


In-situ concrete slab separating floor

PCT solution to Robust Detail: E-FC-10

CELLECTA DECKfon® ULTRAlay 5 acoustic floor covering fully bonded to structural concrete floor
Suitable for floor type 1.1^(a)



- Floor finish (installed after acoustic testing)** Carpet
Wooden flooring
- Resilient layer** CELLECTA DECKfon® ULTRAlay 5 fully bonded to the concrete floor slab with CELLECTA HB724 floor adhesive
- Structural floor** 175mm (min) in-situ concrete floor slab
2400kg/m³ (min) density
- Ceiling** See Table 2C.13b for ceiling treatment options

Fig. 2C.13



Table 2C.13a

Installation Options

Resilient layer bonded to concrete floor

1 DECKfon® ULTRAlay 5
High density recycled acoustic floor covering
Dimensions: 5mm x 1.2m x 10m (12m²)

A CELLECTA HB724
High bond floor adhesive
Coverage: 14kg/46m²

| Airborne | Impact |
|------------------|-------------------|
| 53dB $R_w + C_v$ | 45dB $L_{n,w}$ |
| Building Regs | 31dB ΔL_w |
| ≥ +8dB | |

CELLECTA RL24 levelling screed (if required)

Table 2C.13b

Ceiling Treatment Options

Any metal frame ceiling system hung off CELLECTA AH50 acoustic hangers - 150mm void

150mm (min)

One layer of nominal 10kg/m² gypsum-based board

Any ceiling system - 150mm void

150mm (min)

One layer of nominal 10kg/m² gypsum-based board

Construction notes
^(a) Part E floor type 1.1: Concrete base with ceiling and soft floor covering.

Acoustic Performance

Test data quoted has been conducted in a UKAS accredited laboratory in accordance with Approved Document E: Annex B: Procedures for sound insulation testing.
Airborne results tested in accordance with BS EN ISO 140-3:1995
Impact results tested in accordance with BS EN ISO 140-6: 1998
 ΔL_w measured in accordance with BS EN ISO 140-8: 1998 and do not include the additional benefit of a ceiling treatment.

Third Party Accreditation and Approvals

Environmental Credentials