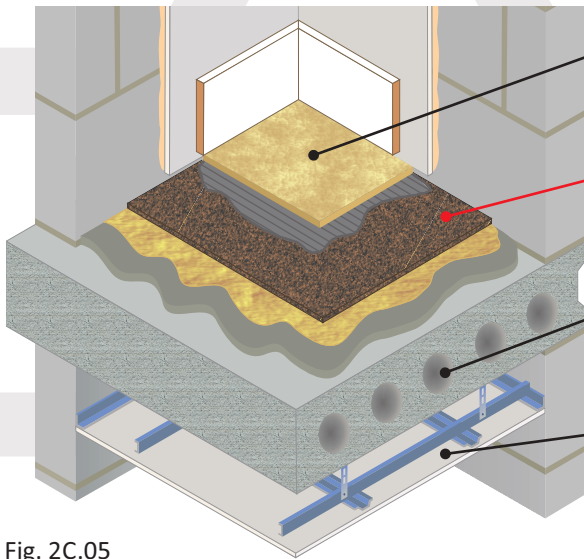


# Pre-cast concrete plank separating floor

PCT solution to Robust Detail: E-FC-9

CELLECTA RUBBERfon® ULTRAtop 3, 5 acoustic floor covering fully bonded to structural concrete floor  
Suitable for Floor type 2.1<sup>(1)</sup>



- Floor finish** (installed after acoustic testing)  
Carpet  
Wooden flooring  
Ceramic tiles<sup>(2)</sup>
- Bonded resilient floor covering**  
CELLECTA RUBBERfon® ULTRAtop 3, 5  
Fully bonded to the concrete slab with  
CELLECTA HB724 adhesive
- Structural floor**
  - 150mm (min) pre-cast concrete floor plank, with 10mm (min) bonded levelling screed
  - 300kg/m<sup>2</sup> (min) mass per unit area
- Ceiling**  
See Table 2C.05b for ceiling treatment options

Fig. 2C.05



Table 2C.05a

### Installation Options

**Resilient layer bonded to screed**

**1 RUBBERfon® ULTRAtop 3**  
High density recycled rubber/cork acoustic floor covering  
Dimensions: 3mm x 1m x 15m (15m<sup>2</sup>)

**A CELLECTA HB724**  
High bond floor adhesive  
Coverage: 14kg/46m<sup>2</sup>

|                      |                     |
|----------------------|---------------------|
| <b>Airborne</b>      | <b>Impact</b>       |
| 55dB $R_w + C_{tr}$  | 58dB $L_{n,w}$      |
| <b>Building Regs</b> | $\Delta L_w = 21dB$ |
| $\geq +5dB$          |                     |

**Resilient layer bonded to screed**

**1 RUBBERfon® ULTRAtop 5**  
High density recycled rubber/cork acoustic floor covering  
Dimensions: 5mm x 1m x 10m (10m<sup>2</sup>)

**A CELLECTA HB724**  
High bond floor adhesive  
Coverage: 14kg/46m<sup>2</sup>

|                      |                     |
|----------------------|---------------------|
| <b>Airborne</b>      | <b>Impact</b>       |
| 55dB $R_w + C_{tr}$  | 56dB $L_{n,w}$      |
| <b>Building Regs</b> | $\Delta L_w = 23dB$ |
| $\geq +5dB$          |                     |

**Construction notes**

<sup>(1)</sup> Floor type 2.1: Pre-cast concrete base with ceiling and acoustic floor covering.  
<sup>(2)</sup> Ceramic tile must be installed in accordance with the manufacturers instructions.

Table 2C.05b

### Ceiling Treatment Options

**CT0 Metal ceiling - 150mm void**  
To be used with 150mm (min) depth concrete planks

150mm (min)

One layer of nominal 8kg/m<sup>2</sup> gypsum-based board

**CT1 Metal ceiling - 100mm void**  
To be used with 200mm (min) depth concrete planks

100mm (min)

One layer of nominal 8kg/m<sup>2</sup> gypsum-based board

## Acoustic Performance

Test data quoted has been conducted at Sound Research Laboratories (UKAS ref. 0444) in accordance with Approved Document E: Annex B: Procedures for sound insulation testing. Airborne performance tested in accordance with BS EN ISO 140-4:1998 Impact performance tested in accordance with BS EN ISO 140-7: 1998  $\Delta L_w$  measured in accordance with BS EN ISO 140-8

## Third Party Accreditation and Approvals



## Environmental Credentials