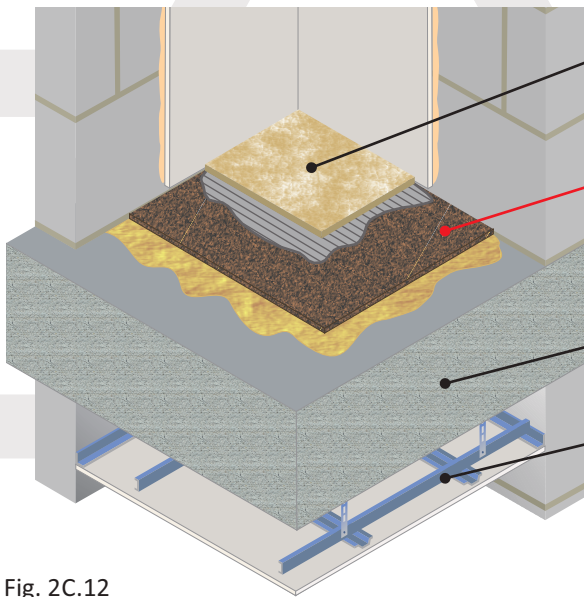


In-situ concrete slab separating floor

PCT solution to Robust Detail: E-FC-10

CELLECTA RUBBERfon® ULTRAtop 3*, 5 acoustic floor covering fully bonded to structural concrete floor
Suitable for Floor type 1.1⁽¹⁾



- Floor finish (installed after acoustic testing)**
Carpet
Wooden flooring
Ceramic tiles⁽²⁾
- Bonded resilient floor covering**
CELLECTA RUBBERfon® ULTRAtop 3*
CELLECTA RUBBERfon® ULTRAtop 5
Fully bonded to the concrete slab with
CELLECTA HB724 floor adhesive
- Structural floor**
175mm (min) in-situ concrete slab,
2400kg/m³ density
- Ceiling**
See Table 2C.12b for ceiling treatment options

Fig. 2C.12



Concrete floor - In-situ concrete slab

Table 2C.12a

Installation Options

Resilient layer bonded to concrete floor

1 RUBBERfon® ULTRAtop 3*
High density recycled rubber/cork acoustic floor covering
Dimensions: 3mm x 1m x 15m (15m²)

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

Airborne	Impact
58dB $R_w + C_{tr}$	54dB $L_{n,w}$
Building Regs	$\Delta L_w = 21dB$
$\geq +5dB$	

Resilient layer bonded to concrete floor

2 RUBBERfon® ULTRAtop 5
High density recycled rubber/cork acoustic floor covering
Dimensions: 5mm x 1m x 10m (10m²)

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

Airborne	Impact
55dB $R_w + C_{tr}$	52dB $L_{n,w}$
Building Regs	$\Delta L_w = 23dB$
$\geq +5dB$	

CELLECTA RL24 levelling screed (if required)

Table 2C.12b

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 metal frame ceiling system - 150mm void

150mm (min)

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

Construction notes
⁽¹⁾ Floor type 1.1: Concrete base with ceiling and soft floor covering.
⁽²⁾ Ceramic tile must be installed in accordance with the manufacturer's instructions.

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. ΔL_w measured in accordance with BS EN ISO 140-8. *Pre-completion testing required prior to full Robust Detail status being awarded.

Third Party Accreditation and Approvals



Environmental Credentials

