In-situ concrete slab separating floor

Robust Detail E-FC-18

Screed laid on CELLECTA resilient layer system or bonded acoustic floor covering
In-situ concrete slab

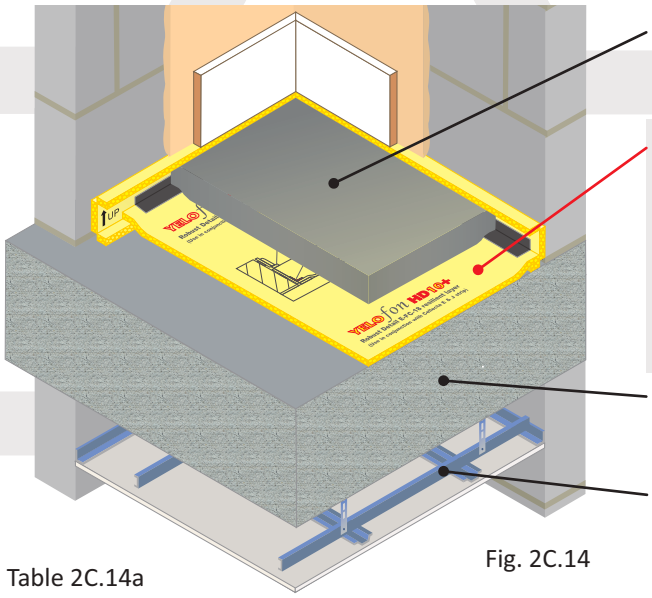


Fig. 2C.14

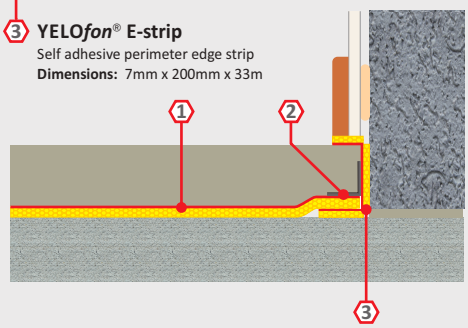
Screed (if required)	• 65mm (min) sand cement screed • 40mm proprietary screed, nominal 80kg/m² mass per unit area
Acoustic treatment options	**A** CELLECTA **YELO*fon*® HD10+** under screed resilient layer, **E-strip** (edge strip) and **J-strip** (acoustic joining tape) **B** CELLECTA **RUBBER*fon*® Impact 6** under screed resilient layer, **Edge strip** & **HG tape** **C** CELLECTA **RUBBER*fon*® ULTRAtop 5** bonded floor covering
Structural floor	225 (min) in-situ concrete slab, 2400kg/m³ density without screed
Ceiling	See Table 2C.14d for ceiling treatment options

Table 2C.14a

A **Under screed resilient layer system**

UK's No.1

1. **YELO*fon*® HD10+**
   High density polyethylene foam with *Surebond* facing
   Dimensions: 10mm x 1.5m x 33.33m (50m²)
2. **YELO*fon*® J-strip**
   Ultra high grab acoustic joining tape
   Dimensions: 2.5mm x 75mm x 40m
3. **YELO*fon*® E-strip**
   Self adhesive perimeter edge strip
   Dimensions: 7mm x 200mm x 33m

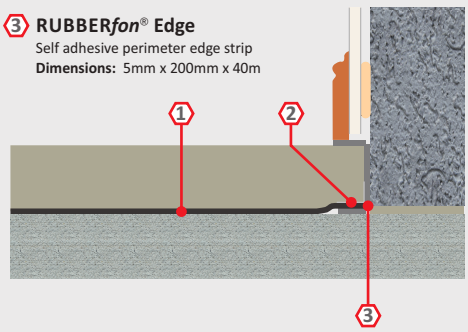


Airborne	55dB $D_{nT,w}+C_{tr}$
Impact	50dB $L_{nT,w}$
Building Regs	≥+8dB

Table 2C.13b

B **Under screed resilient layer system**

1. **RUBBER*fon*® Impact 6**
   High density recycled rubber
   Dimensions: 6mm x 1m x 8m (8m²)
2. **CELLECTA HG-tape**
   High grab jointing tape
   Dimensions: 50mm x 50m
3. **RUBBER*fon*® Edge**
   Self adhesive perimeter edge strip
   Dimensions: 5mm x 200mm x 40m



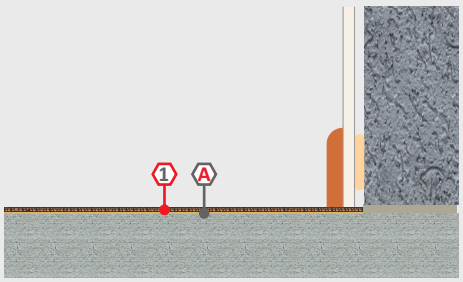
Airborne	55dB $D_{nT,w}+C_{tr}$
Impact	52dB $L_{nT,w}$
Building Regs	≥+8dB

Table 2C.14c

C **Bonded acoustic floor covering**

1. **RUBBER*fon*® 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

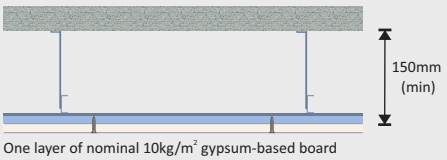


Airborne	53dB $D_{nT,w}+C_{tr}$
Impact	45dB $L_{nT,w}$ *rd* ΔL_w = 31dB
Building Regs	≥+8dB

Table 2C.13d

Ceiling Treatment

Any metal frame ceiling system - 150mm (min) void
To be used with 225mm (min) depth concrete slab



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

Construction notes
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments must be isolated from the floating floor with appropriate edge strip, bonded floor covering or a flexible acoustic sealant.

Acoustic Performance

rd impact performance values quoted were conducted at Sound Research Laboratories (UKAS ref. 0444) in accordance with BS EN ISO 10140-3 and BS EN ISO 10140-4 and rated in accordance with BS EN ISO 717-2:2013 as detailed in Appendix D of the Robust Details hand book (minimum value required *rd* ΔL_w = 17dB).
PCT values quoted are typical, based on the treatment being installed correctly and pre-completion tested, with airborne performance tested in accordance with BS EN ISO 140-4:1998 and impact performance tested in accordance with BS EN ISO 140-7: 1998.

RD Compliant Treatment · BBA VERIFIED RD DATA · GWP <5 · 100% Recyclable Recycled · zero ODP