Modified beam & block separating floor

Robust Detail E-FC-7

CELLECTA floating floor treatment laid on beam and block floor with precast or in-situ edge beams
For use with dense aggregate block flanking walls only

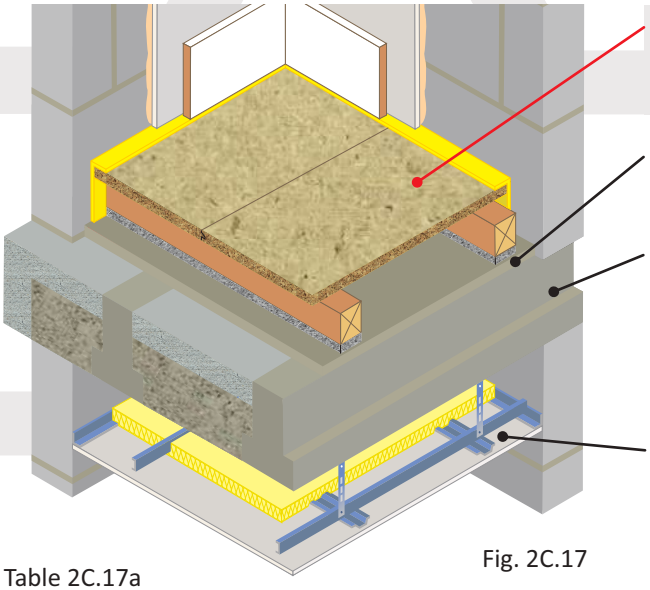


Fig. 2C.17

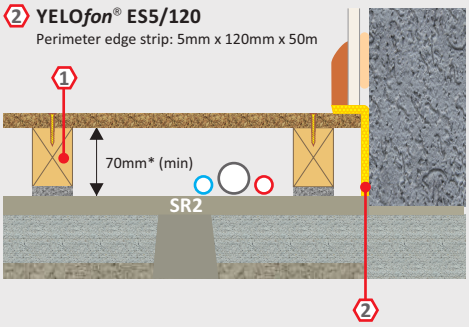
Floating floor acoustic treatment options	**FFT1 - CELLECTA DECK*fon*® Batten 70** **FFT2 - CELLECTA RUBBER*fon*® Cradles** **FFT3 - CELLECTA DECK*fon*® Batten 45**
Levelling screed	20mm (min), only required when using **FFT1** or **FFT3**
Structural floor	Beam and block, min 100mm thick dense aggregate infill blocks, min 50mm concrete topping, min strength class C20, to floor blocks, min 300kg/m² (min) combined mass per unit area
Ceiling	See Table 2C.17d for ceiling treatment options

FASTRACK CAD ARCHITECTURAL CAD DATABASES — Available on bimstore.co — NBS Plus

Table 2C.17a

FFT1 Resilient composite deep batten system

1. **DECK*fon*® Batten 70**
   Deep acoustic batten: 75mm x 45mm x 2400mm
   *Height indicated when floor is loaded to 25kg/m²
2. **YELO*fon*® ES5/120**
   Perimeter edge strip: 5mm x 120mm x 50m



Airborne	53dB $D_{nT,w}+C_{tr}$
Impact	49dB $L_{nT,w}$ *rd* ΔL_w = 27dB
Building Regs	≥+8dB

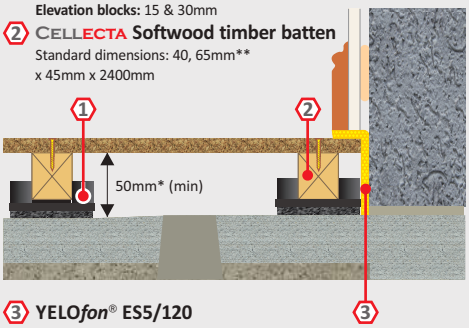
BBA VERIFIED RD DATA

Additional item required to complete treatment: 18mm (min) tongue & groove flooring board

Table 2C.17b

FFT2 Resilient cradle and batten system

1. **RUBBER*fon*® Cradles**
   10mm high x 100mm x 100mm
   Levelling packers: 2, 3 & 5mm
   Elevation blocks: 15 & 30mm
2. **CELLECTA Softwood timber batten**
   Standard dimensions: 40, 65mm**
   x 45mm x 2400mm



3. **YELO*fon*® ES5/120**
   Perimeter edge strip: 5mm x 120mm x 50m

Airborne	53dB $D_{nT,w}+C_{tr}$
Impact	51dB $L_{nT,w}$ *rd* ΔL_w = 25dB
Building Regs	≥+8dB

BBA VERIFIED RD DATA

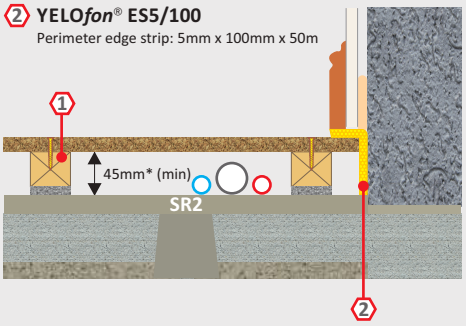
Additional items required to complete treatment:
18mm (min) tongue & groove flooring board
40mm (min) x 45mm timber batten

*Height indicated when floor is loaded to 25kg/m². ** Other batten sizes available upon request

Table 2C.17c

FFT3 Resilient composite standard batten system

1. **DECK*fon*® Batten 45**
   Deep acoustic batten: 50mm x 45mm x 2400mm
   *Height indicated when floor is loaded to 25kg/m²
2. **YELO*fon*® ES5/100**
   Perimeter edge strip: 5mm x 100mm x 50m



Airborne	53dB $D_{nT,w}+C_{tr}$
Impact	51dB $L_{nT,w}$ *rd* ΔL_w = 25dB
Building Regs	≥+8dB

BBA VERIFIED RD DATA

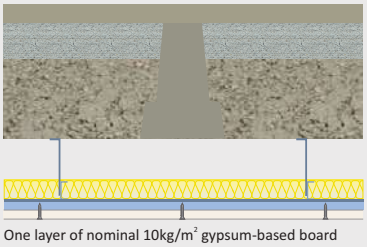
Additional item required to complete treatment: 18mm (min) tongue & groove flooring board

Table 2C.17d

Ceiling Treatment

All E-FC-7 floors must have a minimum depth of 300mm between the top of the beams and ceiling board

Only suspended metal frame systems may be used



One layer of nominal 10kg/m² gypsum-based board 25mm (min) fibre quilt (min 10kg/m³) in ceiling void to cover whole ceiling board area

Construction notes
Slab/levelling screed must be to SR2 Standard when adopting FFT1 or 3. Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments MUST be isolated from the floating floor with **YELO*fon* ES5** edge strip.

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% Recycled Foam — zero ODP

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