Separating floor - Timber I-joists

Robust Detail V-TF-1 / E-FT-1

CELLECTA DECKfon Batten 70 acoustic treatment laid on timber sub-deck

Use with timber frame walls only

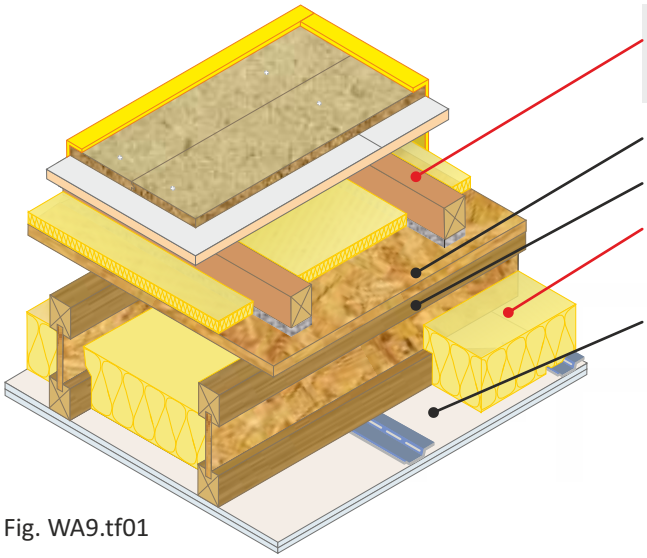


Fig. WA9.tf01

Floating floor treatment	**FFT1 - CELLECTA DECKfon Batten 70** (See Table 8T.01a & b for full details)
Floor decking	15mm thick (min) wood based board 600kg/m³
Joists	235mm (min) timber I-joists
Absorbing material	○ 50mm CELLECTA FIBREfon Micro 50 ● 100mm (min) quilt insulation (10-36kg/m³)
Ceiling	See Table WA9.tf01c for ceiling treatment options

Robust Detail option, change to E-FT-5

Contact CELLECTA for how to amend a registered Robust Detail

FASTRACKCAD ARCHITECTURAL CAD DATABASES

nbsPlus

Tables WA9.tf01a & b

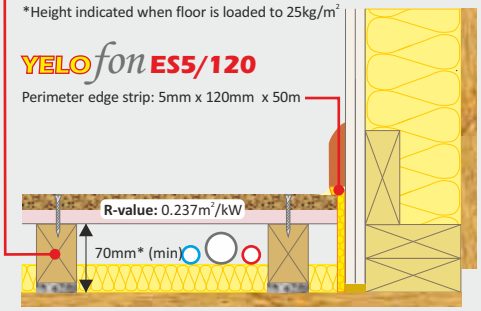
FFT1 Resilient composite deep batten system

DECKfon Batten 70

Deep acoustic batten: 75mm x 45mm x 2400mm
*Height indicated when floor is loaded to 25kg/m²

YELOfon ES5/120

Perimeter edge strip: 5mm x 120mm x 50m



Airborne	55dB $D_{nT,w}$ + C_{tr} *rd* DR_w = 19dB
Impact	54dB $L_{nT,w}$ *rd* DL_w = 16dB
Building Regs	≥+5dB

BBA VERIFIED RD DATA

Additional layers required to complete treatment
18mm (min) tongue & groove flooring board
Gypsum-based board nominal 13.5kg/m²
Sound absorbing quilt laid between batten:
○ 15mm CELLECTA FIBREfon Micro 15 non-itch polyester quilt
25mm (min) 10-33kg/m³ or 13mm (min) 33-36kg/m³ mineral wool

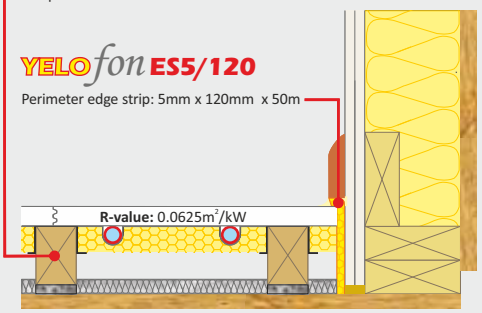
FFT1 Resilient composite deep batten system with high density floor board and optional UFH system

DECKfon Batten 70

Deep acoustic batten: 75mm x 45mm x 2400mm

YELOfon ES5/120

Perimeter edge strip: 5mm x 120mm x 50m



Airborne	54dB $D_{nT,w}$ + C_{tr} *rd* DR_w = 18dB
Impact	54dB $L_{nT,w}$ *rd* DL_w = 16dB
Building Regs	≥+5dB

Additional layers required to complete treatment
25, 28 or 30mm tongue & groove CELLECTA HiDECK Structural floor board (31-36kg/m²)
Sound absorbing quilt laid between batten:
○ 15mm CELLECTA FIBREfon Micro 15 non-itch polyester quilt
25mm (min) 10-33kg/m³ or 13mm (min) 33-36kg/m³ mineral wool

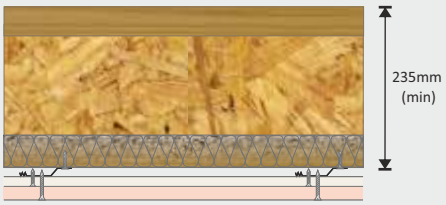
Table WA9.tf01c

Ceiling Treatment Options

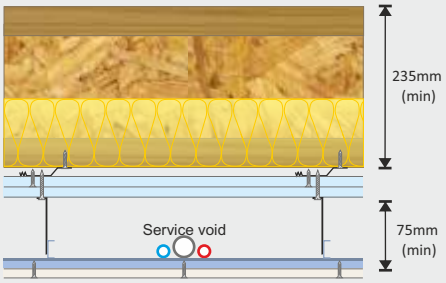
Ceiling boards must not penetrate or touch joists
16mm (min) metal resilient bars mounted at right angles to the joists at 400mm centres.

Ceiling treatment
CT1-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m²) fixed with 32mm screws and 12.5mm (nominal 10kg/m²) fixed with 42mm screws, with all joints staggered.

CT2-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.



Sacrificial ceiling (optional)
Metal ceiling system with a 75mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m² gypsum based board.



Sound absorbing quilt fitted between joists
○ 50mm CELLECTA FIBREfon Micro 50
100mm (min) mineral wool quilt -10-33kg/m³

Acoustic Performance

rd impact performance value quoted were conducted at a UKAS accredited laboratory in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997. Impact tested in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 as detailed in Appendix C of the Robust Details handbook (minimum values required *rd* $DR_w + C_{tr}$ = 13dB and *rd* DL_w = 15dB). DR_w value quoted includes C_{tr}.
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 · GWP <5 · 100% Recycled Foam · zero ODP · FSC FSC® C102871

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