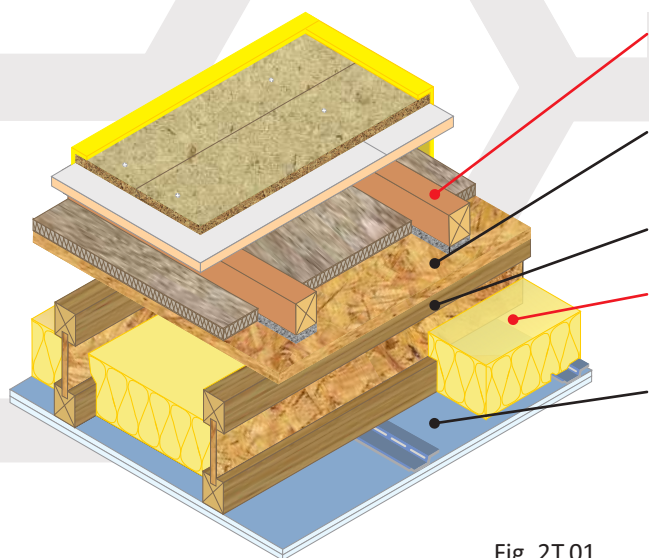


CELLECTA DECKfon® Batten 70 acoustic treatment laid on timber sub-deck
Use with timber frame walls only



Floating floor treatment	FFT1 - CELLECTA DECKfon® Batten 70 ⁽¹⁾ (See Table 2T.01a & b for full details)
Floor decking	15mm (min) thick wood based board, density 600kg/m ³ (min)
Joists	235mm ⁽²⁾ (min) timber I-joists
Absorbing material	<ul style="list-style-type: none"> 50mm CELLECTA FIBREfon® Micro 50 100mm (min) quilt insulation (10-36kg/m³)
Ceiling	See Table 2T.01c for ceiling treatment options ⁽¹⁾ DECKfon Batten 80 required for V-FT-1 applications ⁽²⁾ 240mm (min) required for V-FT-1 applications

Fig. 2T.01



Tables 2T.01a & 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 50mm

R-value: 0.237m²K/W
70mm* (min)

Additional components 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

Airborne	55dB $D_{nT,w} + C_{tr}$ $rd \Delta R_w = 19dB$
Impact	54dB $L_{nT,w}$ $rd \Delta L_w = 16dB$
Building Regs	>+5dB
BBA VERIFIED RD DATA	

FFT1 Resilient composite deep batten system incorporating UFH

- HiDECK® Structural 25⁽¹⁾**
- CELLECTA Pro Adhesive**
- DECKfon® Batten 70**
- XFLO® JB-FF** foil faced XPS insulation brd
- YELOfon® ES5/120** edge strip
- UFH water pipe** (by others)

R-value: 0.062m²K/W
70mm* (min)
400mm (max)

Additional items required to complete treatment:
Sound absorbing quilt laid between battens:
• 15mm CELLECTA FIBREfon Micro 15 non-itch polyester quilt
• 25mm (min) 10 - 33kg/m³ or 13mm (min) 33 - 36kg/m³ mineral wool

Airborne	54dB $D_{nT,w} + C_{tr}$ $rd \Delta R_w = 18dB$
Impact	54dB $L_{nT,w}$ $rd \Delta L_w = 16dB$
Building Regs	>+5dB
CLASS A1	

Table 2T.01c

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.

235mm (min)

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.

235mm (min)
75mm (min)
Service void

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

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. Airborne performance tested in accordance with BS EN ISO 10140-2 and BS EN ISO 10140-4 and rated in accordance with BS EN ISO 717-1: 2013 as detailed in Appendix C of the Robust Details hand book (minimum value required $rd \Delta R_w + C_{tr} = 13dB$ $rd \Delta L_w = 15dB$). 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.

