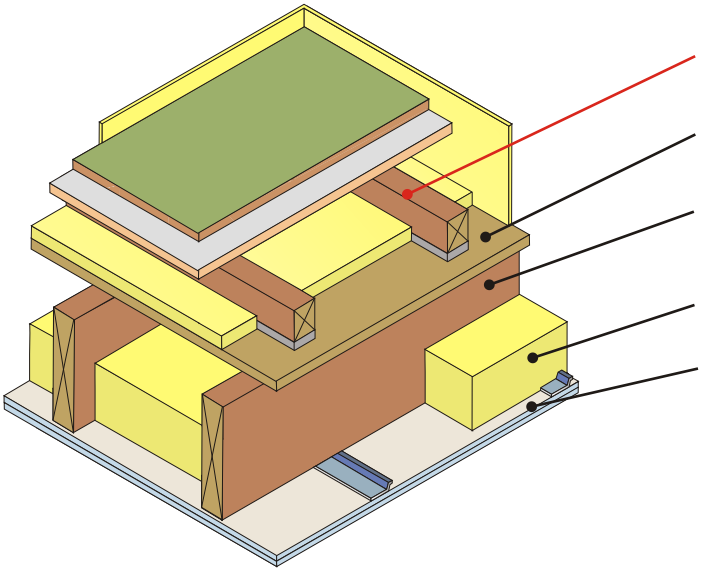
Structural separating floor - Timber

Robust Detail E-FT-2

Solid timber-joists
Use with timber frame walls only

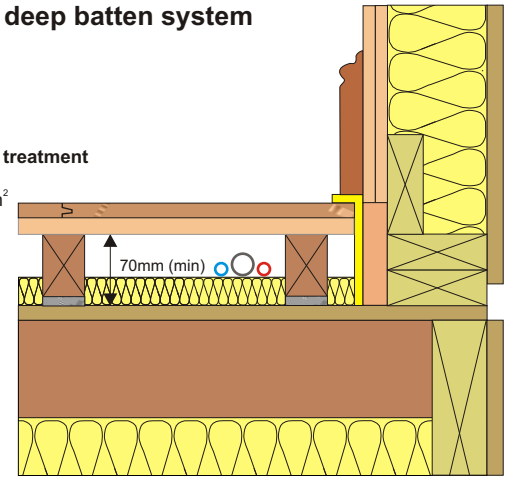
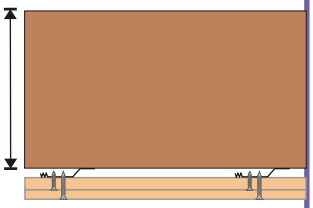
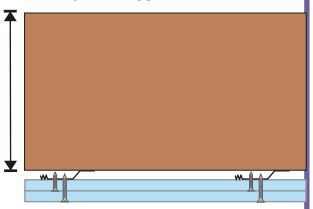


Floating floor Treatment	**FFT1 - DECK*fon* Batten 70** (See *Table. 11* for full details)
Floor decking	11mm thick (min) OSB or Walker perforated deck system
Joists	220mm (min) solid timber joists at 400mm centres
Absorbing material	100mm (min) quilt insulation (10-36g/m^3) between joists
Ceiling	See *Table. 11* for ceiling treatments

CAD drawings available

Fig. 11

Table. 11

Robust Detail E-FT-2 compliant floating floor treatment	Perimeter resilient flanking strip required	Ceiling treatment options
FFT1 - Resilient composite deep batten system DECK*fon* **Batten 70** **Additional layers required to complete treatment** • 18mm (min) t&g flooring board • 19mm Gypsum-based board - 13.5kg/m^2 • 60mm (min) 10 -33kg/m^3 mineral wool laid between battens **Notes.** Ensure services do not bridge the resilient layer Void dimension indicated is when floor is loaded to 25kg/m^2 Batten dimensions: 75mm (h) x 45mm (w) x 2400mm (l)  *rd* $R_w + C_{tr}$ = 14dB *rd* L_w = 16dB VERIFIED RD DATA BBA **Construction notes.** Materials must be installed in accordance with manufacturers' and RD instructions to achieve required acoustic performance values. 18mm t&g chipboard and 19mm gypsum based plank fixed to DECKfon Batten 70, with 13mm (min) 33-36kg/m^3 or 25mm (min) 10-33kg/m^3 fitted inbetween. 240mm (min) I-joints, with 100mm 10-33kg/m^3 mineral wool fitted in between and 2 layers of plasterboard (23kg/m^2) on resilient bars perpendicular to the joists, fixed at 400mm centres. Wall treatments MUST be isolated from the floating floor with YELOfon ES5/120 perimeter flanking	YELO*fon* ES5/120 Polyethylene foam flanking strip - 5mm (t) x 120mm (h) x 50m (l) placed around the perimeter of the flooring board to isolate floor from walls and skirting	**Ceiling boards must not penetrate or touch joists** 16mm (min) metal resilient bars mounted at right angles to the joist at 400mm centres. **CT1**- Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m^2) fixed with 32mm screws and 12.5mm (nominal 10kg/m^2) fixed with 42mm screws, with all joists staggered.  **CT2**- Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m^2) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m^2) fixed with 42mm screws, with all joists staggered.  Construction notes. Services must not puncture ceiling linings (except cables, which should be sealed with flexible sealant).

Acoustic values.
Test data quoted has been conducted at Sound Research Laboratories, Sudbury, UKAS ref. 0444.
Airborne: Tested in accordance with BS EN ISO 140-3: 1995 and rated in accordance with BS ISO 717-1: 1997 (minimum value required *rd* $RW + C_{tr}$ = 14dB).
Impact: Tested in accordance with BS EN ISO 140-6: 1998 and rated in accordance with BS ISO 717-2: 1997 (minimum value required *rd* L_w = 16dB).