

Separating floor - Timber (refurb and conversion)

CELLECTA *DECKfon* 37T acoustic treatment laid directly existing timber joists
New ceiling on resilient bars

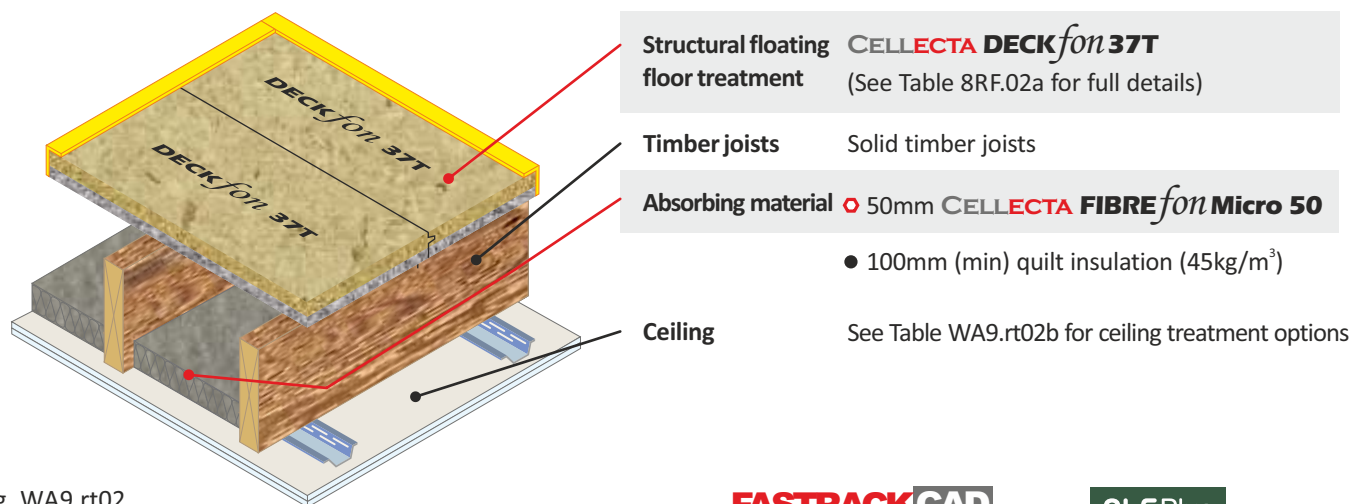


Fig. WA9.rt02

FASTRACKCAD
ARCHITECTURAL CAD DATABASES

НБСPlus

Table WA9.rt02a

Installation Options

Structural composite acoustic treatment laid directly on floor joists

DECKfon 37T Composite acoustic structural overlay board
Dimensions: 37mm x 600mm x 2400mm
Weight: 17.20kg/m² / 24.76kg/board

YELOfon ES5/100 Perimeter edge strip
Dimensions: 5mm x 100mm x 50m

Additional items required
 CELLECTA *fon* joint adhesive - 1Litre / 33m² coverage
 Sound absorbing quilt laid between joists:
 ○ 50mm CELLECTA *FIBREfon* Micro 50 non-itch polyester quilt
 100mm (min) mineral wool 45kg/m³

37mm
450mm centres (max)

Construction notes
 Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. The floor treatment must not be mechanically fixed to the floor joists or surrounding structures. Wall treatments **MUST** be isolated from the floating floor with YELOfon ES5/100 flanking strip. Services should not come into direct contact with the floor

Table WA9.rt02b

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 (max) centres.
- 30mm CELLECTA *HP30* resilient bars mounted at right angles to the joists at 600mm (max) centres.

Ceiling treatment
 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.

16mm void
50kg/m² max ceiling load @ 400mm centres

HP30 - 30mm void
48kg/m² max ceiling load @ 600mm centres

+ 3 dB $R_w + C_{tr}^{(1)}$
+ 2 dB $L_{n,w}^{(1)}$

⁽¹⁾ Typical dB improvement of HP30 over 16mm resilient bars.

Acoustic Performance

Airborne:	51dB $R_w + C_{tr}$
Impact:	55dB $L_{n,w}$

Performance values quoted were achieved using a 16mm resilient bar at Sound Research laboratories, Sudbury in accordance with Approved Document E: Annex B: Procedures for sound insulation testing. Airborne results tested in accordance with BS EN ISO 140-3:1995. Impact results tested in accordance with BS EN ISO 140-6: 1998

Third Party Accreditation and Approvals



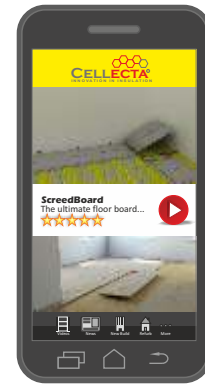
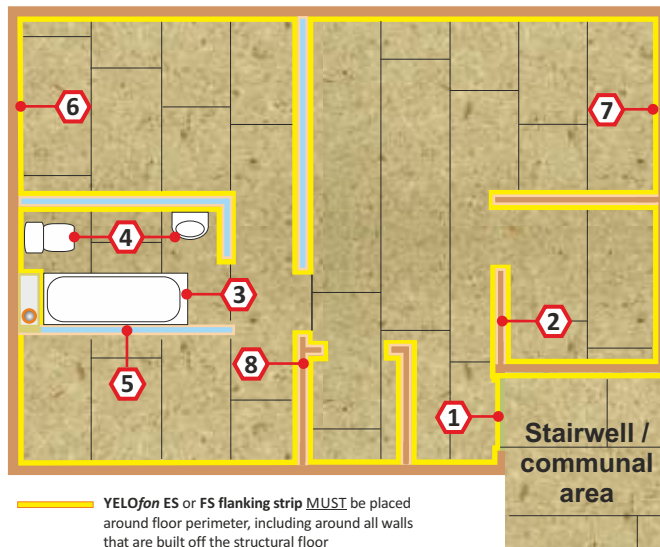
ISO 9001: 2004

Environmental Credentials



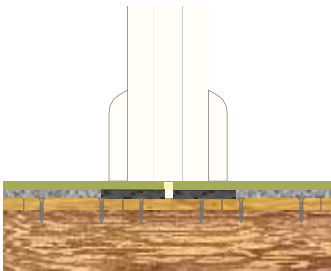
Design & installation details - PCT refurbishment treatments

The acoustic performance of the floor structure will be compromised if the acoustic treatment is not completely isolated from the timber joists, sub-floor, services, door frames, surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.



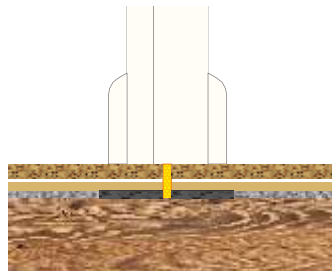
Installation video on the **CELLECTA** app

1a Door thresholds (17T, 26T, 30T & SB28)



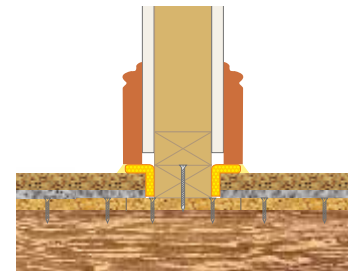
Support the edge of the treatment with 75mm wide **RUBBERfon TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

1b Door thresholds (37T & Q39)



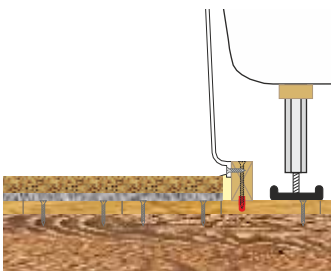
Support the edge of the treatment with 75mm wide **RUBBERfon TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

2 Timber stud partition



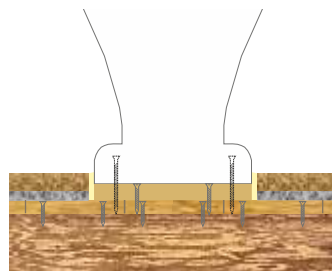
Lightweight internal walls should be built off the structural floor deck and **MUST** be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**.

3 Bath and shower trays



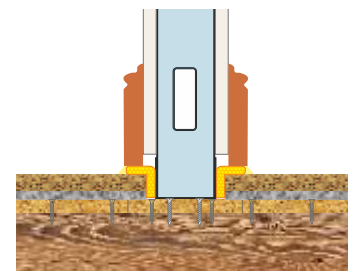
Baths and shower trays should be built off a structural floor and **MUST** be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

4 Sanitary ware



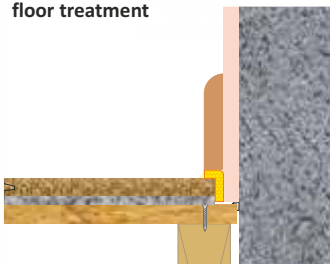
Sanitary ware should be built off a structural floor and **MUST** be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

5 Metal frame partition built off the structural floor



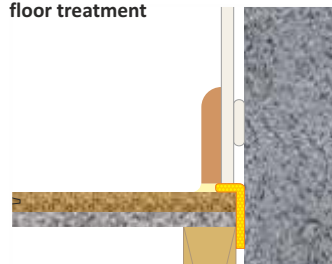
Lightweight internal walls built off the structural floor must be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**.

6 Wall treatment installed before the floor treatment



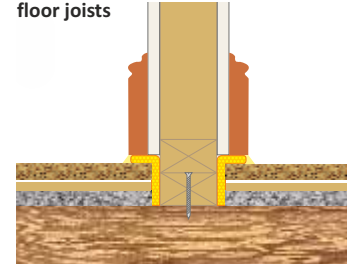
Wall treatments **MUST** be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**, and all gaps sealed with a suitable mastic.

7 Wall treatment installed after the floor treatment



Wall treatments **MUST** be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**, and all gaps sealed with a suitable mastic.

8 Lightweight partitions built off the floor joists



Lightweight internal walls built off the floor joists **MUST** be isolated from the acoustic treatment with **YELOfon ES** or **FS strip**.