

# Separating floor - Timber (refurb and conversion )

CELLECTA acoustic treatment laid on timber sub-floor

Existing timber joists

Metal frame secondary ceiling hung off primary ceiling

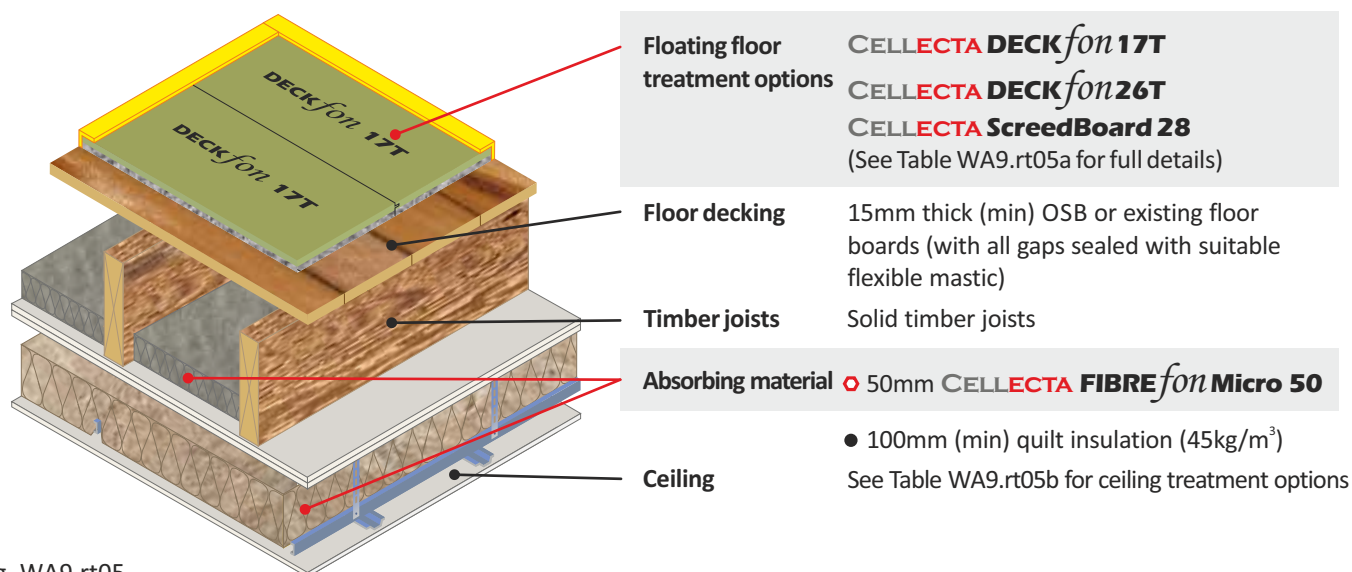


Fig. WA9.rt05

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**n55Plus**

Table WA9.rt05a

Installation Details	
<b>Resilient overlay platform floor system</b> <b>DECKfon 17T</b> Composite acoustic overlay board <b>Dimensions:</b> 17mm x 600mm x 2400mm <b>Weight:</b> 7.45kg/m <sup>2</sup> / 10.74kg/board <b>YELOfon FS15</b> Profiled flanking strip <b>Dimensions:</b> 5mm x 15mm x 30mm x 2m <b>Additional items required to complete treatment</b> CELLECTA fon adhesive - 1litre / 33m <sup>2</sup> coverage CELLECTA FIBREfon Micro 50 sound absorption quilt fitted between joists	
<b>Airborne</b> 51dB $R_w + C_{tr}$	<b>Impact</b> 55dB $L_{n,w}$
<b>Resilient overlay platform floor system</b> <b>DECKfon 26T</b> Composite acoustic overlay board <b>Dimensions:</b> 26mm x 600mm x 2400mm <b>Weight:</b> 13.40kg/m <sup>2</sup> / 19.29kg/board <b>YELOfon FS30</b> Profiled flanking strip <b>Dimensions:</b> 6mm x 30mm x 30mm x 2m <b>Additional items required to complete treatment</b> CELLECTA fon adhesive - 1litre / 33m <sup>2</sup> coverage CELLECTA FIBREfon Micro 50 sound absorption quilt fitted between joists	
<b>Airborne</b> 52dB $R_w + C_{tr}$	<b>Impact</b> 56dB $L_{n,w}$
<b>Resilient overlay platform floor system</b> <b>ScreedBoard 28</b> Ultra high performance, dense acoustic composite overlay board <b>Dimensions:</b> 28mm x 600mm x 1200mm <b>Weight:</b> 26.00kg/m <sup>2</sup> / 18.72kg/board <b>YELOfon FS50</b> Profiled flanking strip <b>Dimensions:</b> 6mm x 50mm x 30mm x 2m <b>Additional items required to complete treatment</b> CELLECTA PRO or SB adhesive - 1litre / 33m <sup>2</sup> coverage CELLECTA FIBREfon Micro 50 sound absorption quilt fitted between joists	
<b>Airborne</b> 52dB $R_w + C_{tr}$	<b>Impact</b> 55dB $L_{n,w}$

Table WA9.rt05b

Ceiling Treatment Options
<b>Primary ceiling fixed directly to joists with metal frame ceiling system, providing 100mm (min) ceiling void fixed to underside</b>  <b>Primary ceiling treatment</b> Gypsum-based boarded ceiling with a nominal weight of 16kg/m <sup>2</sup> fixed directly to the joists  <b>Sacrificial ceiling</b> Metal frame (MF) ceiling system with 100mm (min) void fixed to underside of primary ceiling, 50mm <b>FIBREfon Micro 50</b> or 100mm mineral wool (45kg/m <sup>3</sup> ) fitted between grid and one layer of 8kg/m <sup>2</sup> gypsum-based board
<b>Construction notes</b> Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments <u>MUST</u> be isolated from the floating floor with <b>YELOfon FS</b> flanking strip. Ensure services do not come into contact with the floor treatment. Once laid, <b>17T</b> boards should be covered with the final floor finish as soon as possible to eliminate the risk of mechanical damage to the edge detail.

## Acoustic Performance

Performance values quoted were achieved 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



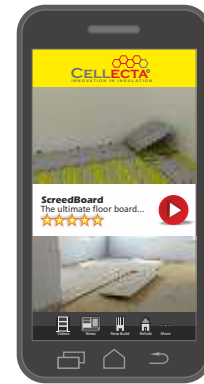
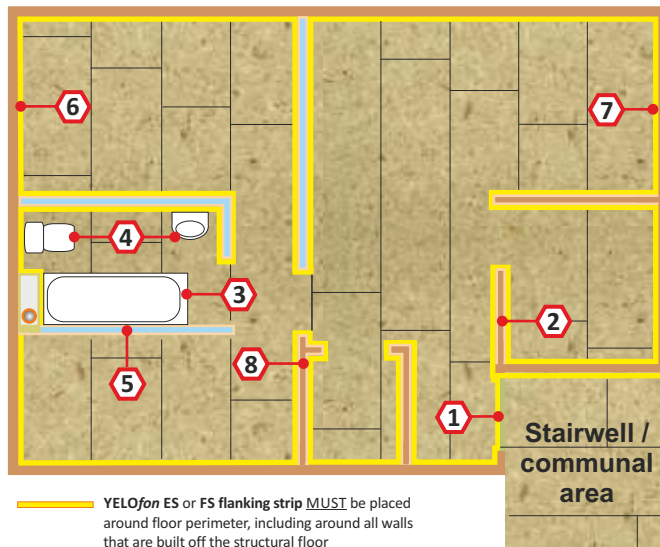
ISO 9001: 2004

## Environmental Credentials



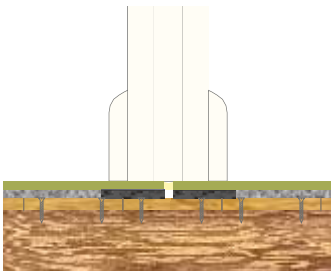
# Design & installation details - PCT refurbishment treatments

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.



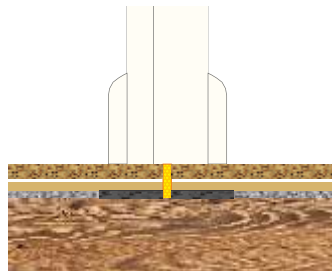
Installation video on the **CELLECTA** app

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



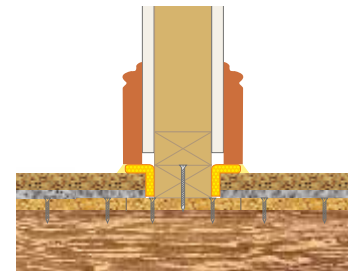
Support the edge of the treatment with 75mm wide **RUBBERfon TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

## 1b Door thresholds (37T & Q39)



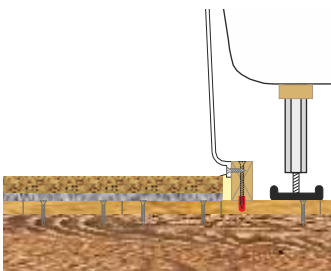
Support the edge of the treatment with 75mm wide **RUBBERfon TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

## 2 Timber stud partition



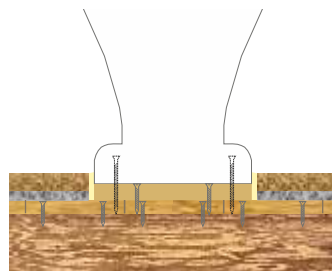
Lightweight internal walls should be built off the structural floor deck and **MUST** be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**.

## 3 Bath and shower trays



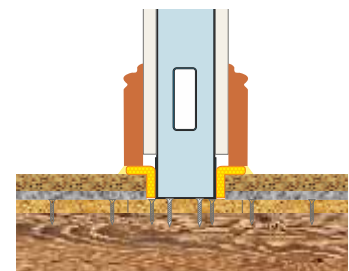
Baths and shower trays should be built off a structural floor and **MUST** be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

## 4 Sanitary ware



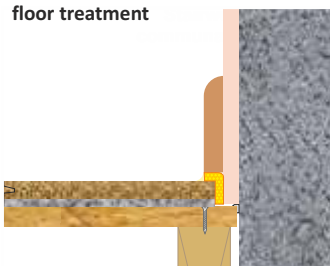
Sanitary ware should be built off a structural floor and **MUST** be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

## 5 Metal frame partition built off the structural floor



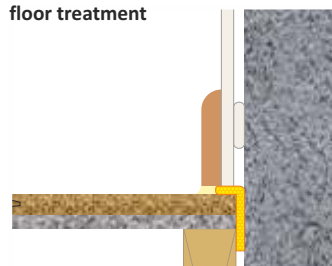
Lightweight internal walls built off the structural floor must be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**.

## 6 Wall treatment installed before the floor treatment



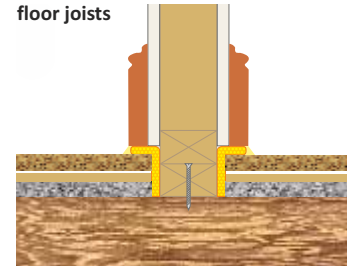
Wall treatments **MUST** be isolated from the acoustic floor treatment with **YELOfon ES** or **FS strip**, and all gaps sealed with a suitable mastic.

## 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**.