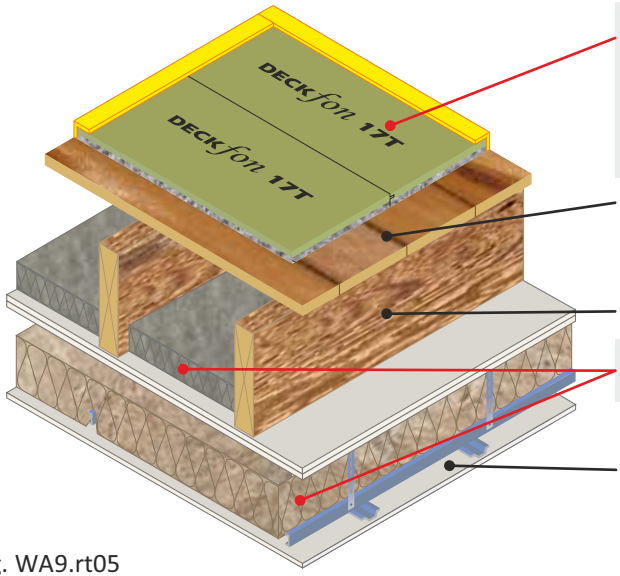
# Separating floor - Timber (refurb and conversion )

**CELLECTA acoustic treatment laid on timber sub-floor**
**Existing timber joists**
**Metal frame secondary ceiling hung off primary ceiling**




| | |
|---|---|
| **Floating floor treatment options** | CELLECTA **DECK*fon* 17T**<br>CELLECTA **DECK*fon* 26T**<br>CELLECTA **ScreedBoard 28**<br>(See Table WA9.rt05a for full details) |
| **Floor decking** | 15mm thick (min) OSB or existing floor boards (with all gaps sealed with suitable flexible mastic) |
| **Timber joists** | Solid timber joists |
| **Absorbing material** | o 50mm CELLECTA **FIBRE*fon* Micro 50**<br>● 100mm (min) quilt insulation (45kg/m³) |
| **Ceiling** | See Table WA9.rt05b for ceiling treatment options |

Fig. WA9.rt05

FASTRACKCAD ARCHITECTURAL CAD DATABASES

NBSPlus

Table WA9.rt05a

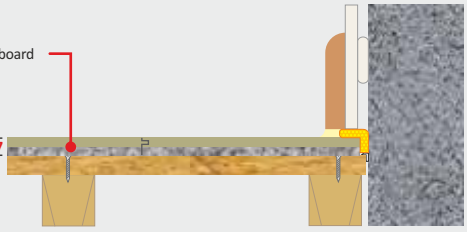
## Installation Details

### Resilient overlay platform floor system

DECK*fon* **17T** Composite acoustic overlay board
**Dimensions:** 17mm x 600mm x 2400mm
**Weight:** 7.45kg/m² / 10.74kg/board

YELO*fon* **FS15** Profiled flanking strip
**Dimensions:** 5mm x 15mm x 30mm x 2m

**Additional items required to complete treatment**
CELLECTA ***fon*** **adhesive** - 1Litre / 33m² coverage
CELLECTA **FIBRE*fon* Micro 50** sound absorption quilt fitted between joists



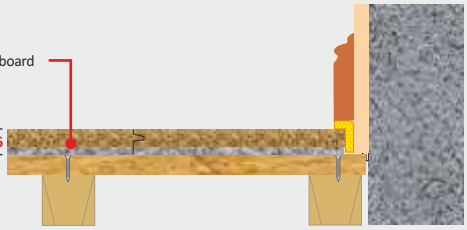

| Airborne | Impact |
|---|---|
| 51dB $R_w + C_{tr}$ | 55dB $L_{n,w}$ |

### Resilient overlay platform floor system

DECK*fon* **26T** Composite acoustic overlay board
**Dimensions:** 26mm x 600mm x 2400mm
**Weight:** 13.40kg/m² / 19.29kg/board

YELO*fon* **FS30** Profiled flanking strip
**Dimensions:** 6mm x 30mm x 30mm x 2m

**Additional items required to complete treatment**
CELLECTA ***fon*** **adhesive** - 1Litre / 33m² coverage
CELLECTA **FIBRE*fon* Micro 50** sound absorption quilt fitted between joists



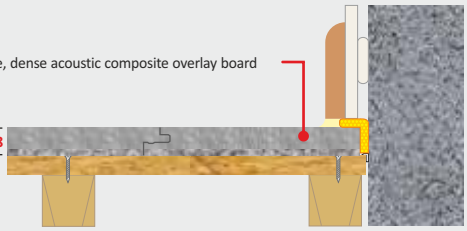

| Airborne | Impact |
|---|---|
| 52dB $R_w + C_{tr}$ | 56dB $L_{n,w}$ |

### Resilient overlay platform floor system

**ScreedBoard 28** Ultra high performance, dense acoustic composite overlay board
**Dimensions:** 28mm x 600mm x 1200mm
**Weight:** 26.00kg/m² / 18.72kg/board

YELO*fon* **FS50** Profiled flanking strip
**Dimensions:** 6mm x 50mm x 30mm x 2m

**Additional items required to complete treatment**
CELLECTA **PRO** or **SB adhesive** - 1Litre / 33m² coverage
CELLECTA **FIBRE*fon* Micro 50** sound absorption quilt fitted between joists




| Airborne | Impact |
|---|---|
| 52dB $R_w + C_{tr}$ | 55dB $L_{n,w}$ |

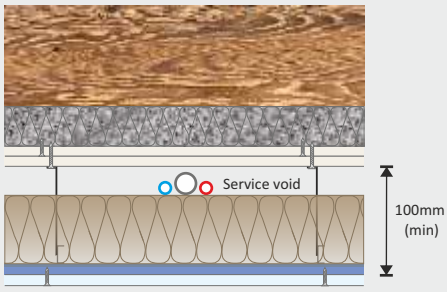
Table WA9.rt05b

## Ceiling Treatment Options

**Primary ceiling fixed directly to joists with metal frame ceiling system, providing 100mm (min) ceiling void fixed to underside**

**Primary ceiling treatment**
Gypsum-based boarded ceiling with a nominal weight of 16kg/m² fixed directly to the joists

**Sacrificial ceiling**
Metal frame (MF) ceiling system with 100mm (min) void fixed to underside of primary ceiling, 50mm **FIBRE*fon* Micro 50** or 100mm mineral wool (45kg/m³) fitted between grid and one layer of 8kg/m² gypsum-based board




**Construction notes**
Materials must be installed in accordance with manufacturers' instructions to achieve stated acoustic values. Wall treatments MUST be isolated from the floating floor with **YELO*fon* FS** flanking strip.
Ensure services do not come into contact with the floor treatment.
Once laid, **17T** 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

SRL Performance Tested

BMTRADA ISO 9001

ISO 9001: 2004

## Environmental Credentials

GWP <5

100% Recyclable

zero ODP



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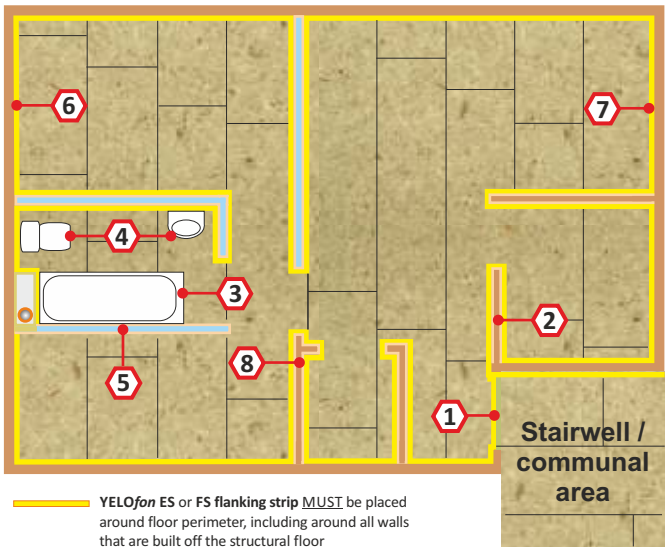
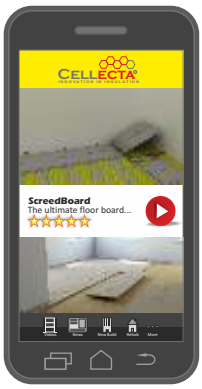
# Design & installation details - PCT refurbishment treatments

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.

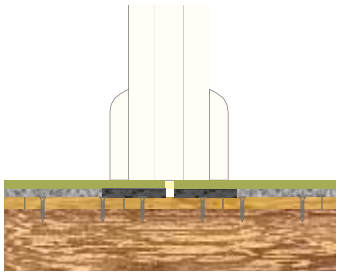



**YELO*fon* ES** or **FS flanking strip** MUST be placed around floor perimeter, including around all walls that are built off the structural floor



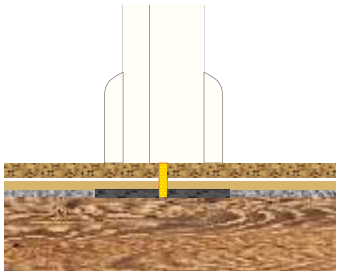

Installation video on the CELLECTA app

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



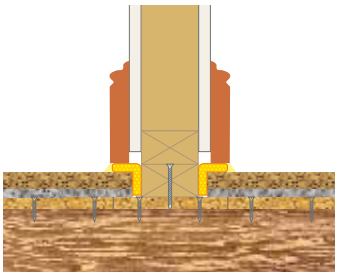
Support the edge of the treatment with 75mm wide **RUBBER*fon* TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

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



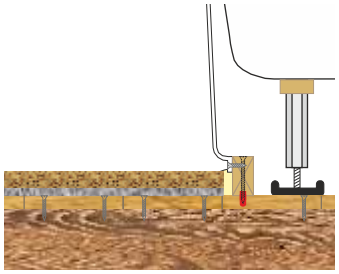
Support the edge of the treatment with 75mm wide **RUBBER*fon* TSS** (threshold support strips), whilst providing a 5-10mm expansion gap between the habitable area and the communal area treatments.

## 2 Timber stud partition



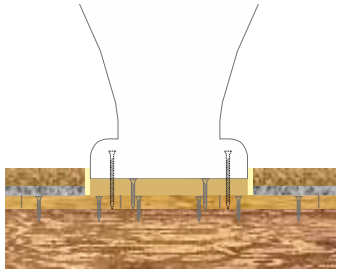
Lightweight internal walls should be built off the structural floor deck and MUST be isolated from the acoustic floor treatment with **YELO*fon* ES** or **FS strip**.

## 3 Bath and shower trays



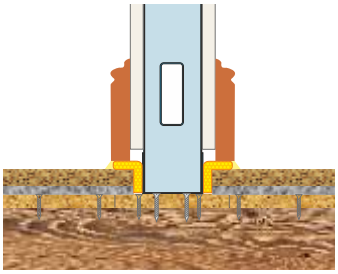
Baths and shower trays should be built off a structural floor and MUST be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

## 4 Sanitary ware



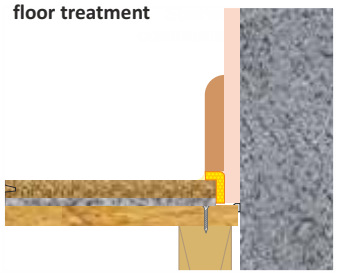
Sanitary ware should be built off a structural floor and MUST be isolated from the acoustic floor treatment and any floor finished. Any gaps should be sealed with a suitable mastic.

## 5 Metal frame partition built off the structural floor



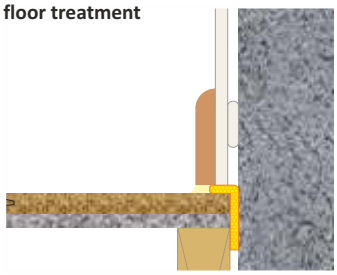
Lightweight internal walls built off the structural floor must be isolated from the acoustic floor treatment with **YELO*fon* ES** or **FS strip**.

## 6 Wall treatment installed before the floor treatment



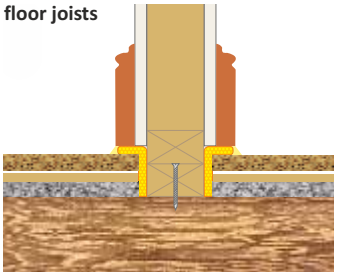
Wall treatments MUST be isolated from the acoustic floor treatment with **YELO*fon* ES** or **FS strip**, and all gaps sealed with a suitable mastic.

## 7 Wall treatment installed after the floor treatment



Wall treatments MUST be isolated from the acoustic floor treatment with **YELO*fon* 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 **YELO*fon* ES** or **FS strip**.



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