

# Separating floor - Timber (refurb and conversion )

**CELLECTA ScreedBoard** acoustic treatment laid on timber sub-floor  
Existing timber joists  
New ceiling fixed to resilient bars

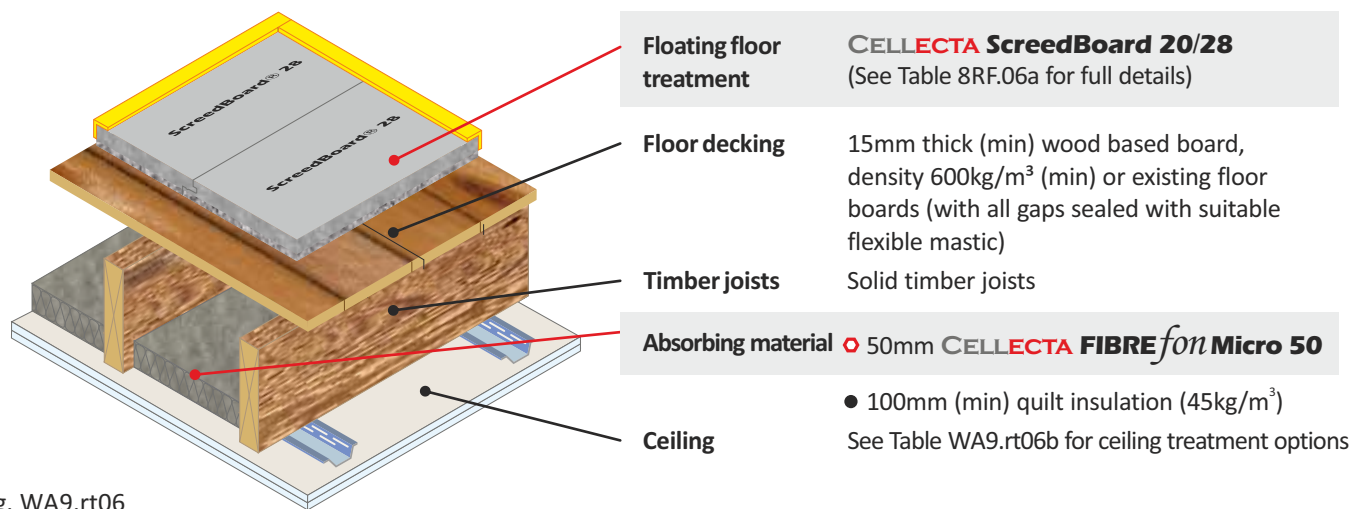


Fig. WA9.rt06

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**n55Plus**

Table WA9.rt06a

### Installation Options

#### Resilient overlay platform floor system

**ScreedBoard 28** Ultra high performance, dense acoustic composite overlay board  
Dimensions: 28mm x 600mm x 1200mm  
Weight: 26.00kg/m<sup>2</sup> / 18.72kg/board

**Additional items required to complete treatment**  
CELLECTA PRO or SB adhesive - 1litre / 33m<sup>2</sup> coverage  
CELLECTA FIBREfon Micro 50  
Sound absorption quilt fitted between joists  
Dimensions: 50mm x 3/400mm x 7.2m

**YELOfon FS50**  
Profiled perimeter flanking strip  
Dimensions: 6mm x 50mm x 30mm x 2m

#### Resilient overlay platform floor system incorporating underfloor heating

**ScreedBoard 20** Highly conductive, high density overlay board  
Dimensions: 20mm x 600mm x 1200mm  
Weight: 25kg/m<sup>2</sup> 18kg/board  
Thermal resistance: 0.05m<sup>2</sup>K/W

**Under floor heating insulation board**  
**FLO** Routed high performance 250/300kPa XPS  
Dimensions: 25-160mm x 600mm x 2500mm  
Pipe centres: 150, 200, 300mm  
Pipe bore size (OD): 10 - 20mm

**FIBREfon 8**  
High performance resilient layer  
Dimensions: 8mm x 600mm x 1200mm

**YELOfon ES5/120**  
Perimeter edge strip  
Dimensions: 5mm x 120mm x 50mm

Table WA9.rt06b

### 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/m<sup>3</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>3</sup>) fixed with 42mm screws, with all joints staggered.

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

<sup>(i)</sup> Typical dB improvement of HP30 over 16mm resilient bars.

## Acoustic Performance

<b>Airborne:</b>	<b>52dB <math>R_w + C_{tr}</math></b>
<b>Impact:</b>	<b>54dB <math>L_{n,w}</math></b>

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



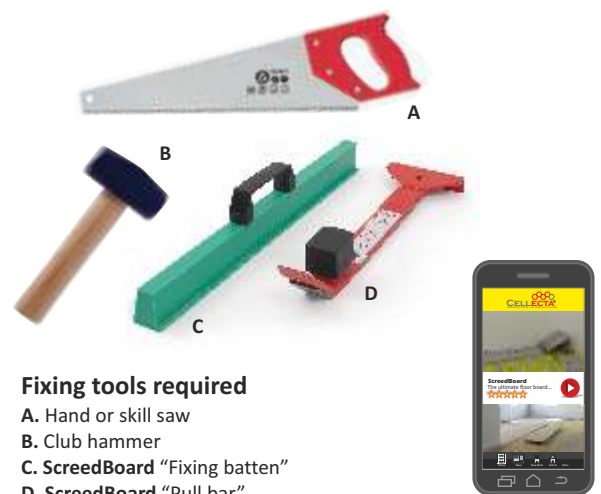
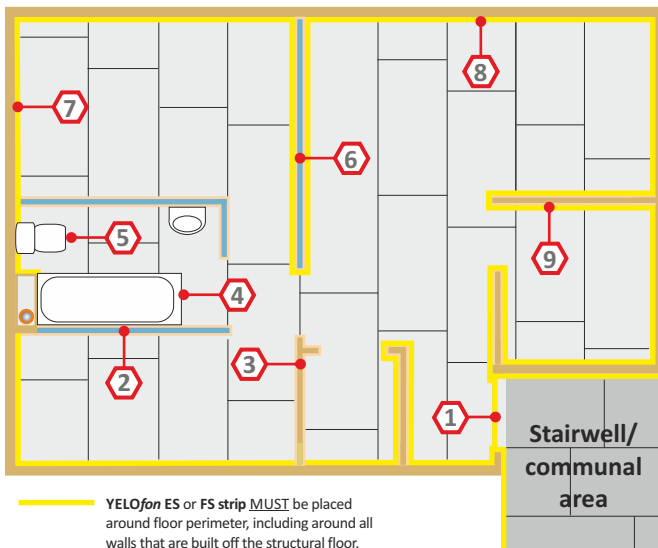
ISO 9001: 2004

## Environmental Credentials



# Design & installation details - CELLECTA ScreedBoard

The acoustic performance of the floor structure will be compromised if the **ScreedBoard's** are not completely isolated from the sub-floor, soil pipes, door frames, surrounding walls and their treatments. To address this risk, each potential problem area needs to be detailed accordingly.

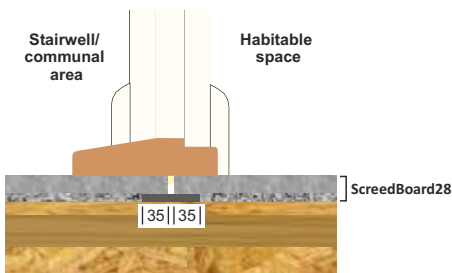


## Fixing tools required

- A. Hand or skill saw
- B. Club hammer
- C. ScreedBoard "Fixing batten"
- D. ScreedBoard "Pull bar"
- Packing shims (not shown)

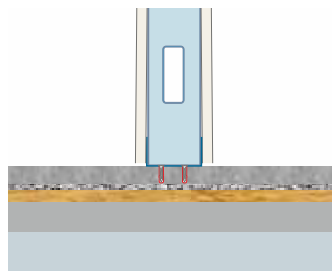
Installation video on the **CELLECTA** app

### 1 Door threshold



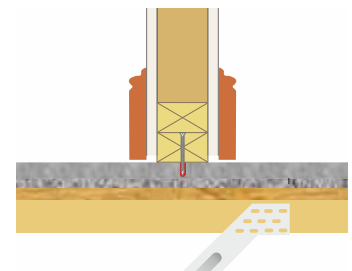
To add additional support, trim off 35mm of the resilient later from the leading edges and install a 75mm wide **RUBBERfon Threshold Support Strip (TTS)**.

### 2 Metal frame partition built off the floor treatment



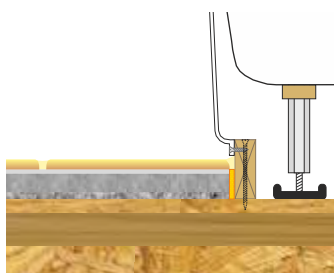
Non-load bearing metal frame walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws **DO NOT** penetrate the resilient layer.

### 3 Timber stud partition built off the floor treatment



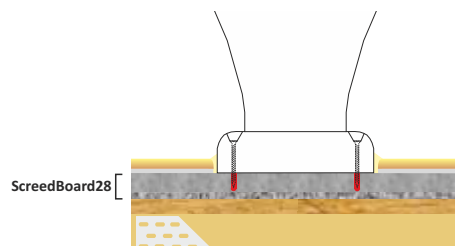
Non-load bearing timber stud walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws **DO NOT** penetrate the resilient layer.

### 4 Baths, shower trays and sanitary ware built off the structural floor



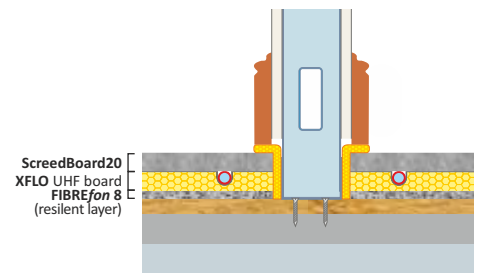
Baths, shower trays and sanitary ware built off the structural floor should be isolated from the **ScreedBoard 28** and any floor finished.

### 5 Baths, shower trays and sanitary ware built off the floor treatment.



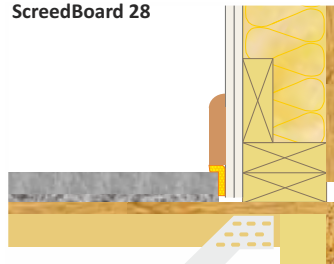
Baths, shower trays and sanitary ware can be built directly off the **ScreedBoard 28**. Ensure the screws do not penetrate the resilient layer.

### 6 Metal frame partition built off the structural floor



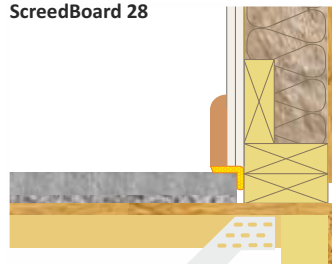
Lightweight partition walls built off the structural floor **MUST** be isolated from the **ScreedBoard** with **YELOfon F550** or **ES5/100** flanking strip.

### 7 Wall treatment installed before the ScreedBoard 28



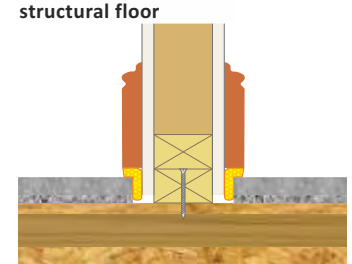
Wall treatments **MUST** be isolated from the **ScreedBoard 28** with **YELOfon F550** strip.

### 8 Wall treatment installed after the ScreedBoard 28



Wall treatments **MUST** be isolated from the **ScreedBoard 28** with **YELOfon F550** strip.

### 9 Timber stud partition built off the structural floor



Lightweight internal walls built off the structural floor **MUST** be isolated from the **ScreedBoard** with **YELOfon FS** strip.