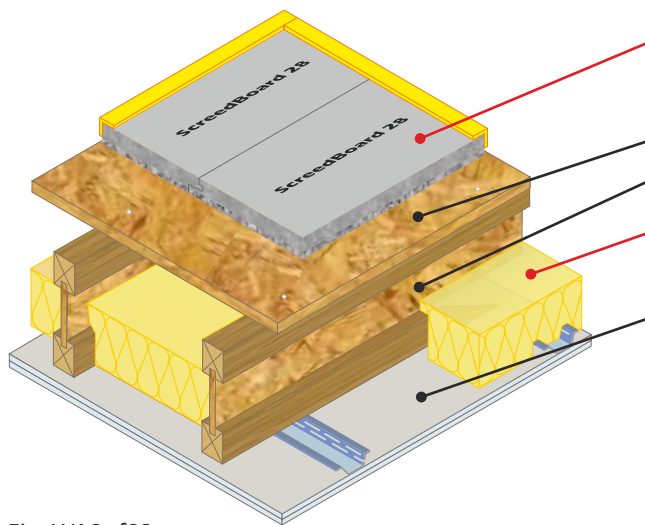


CELLECTA **ScreedBoard 28** laid on timber sub-deck  
Use with timber frame walls only



<b>Floating floor treatment</b>	<b>CELLECTA ScreedBoard 28</b> Ultra high performance, dense acoustic composite overlay board
<b>Floor decking</b>	15mm <sup>(1)</sup> (min) thick wood based board
<b>Joists</b>	235mm <sup>(2)</sup> (min) timber I-joists
<b>Absorbing material</b>	<ul style="list-style-type: none"> <li>○ 50mm <b>CELLECTA FIBREfon Micro 50</b></li> <li>● 100mm (min) quilt insulation (10-36kg/m<sup>3</sup>)</li> </ul>
<b>Ceiling</b>	See Table WA9.tf03b for ceiling treatment options

<sup>(1)</sup> 18mm (min) required for Robust Detail applications  
<sup>(2)</sup> 240mm (min) required for Robust Detail applications

Fig. WA9.tf03



Table WA9.tf03a

### Installation Options

#### Resilient overlay platform floor system

**ScreedBoard 28** Ultra high performance, dense acoustic composite overlay board  
Dimensions: 28mm x 600mm x 1200mm  
Weight: 26kg/m<sup>2</sup> / 18.72kg/board

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

**Additional items required**

- CELLECTA ULTRAPlate 0.5 heat diffuser plate - 1000mm long
- CELLECTA PRO joint adhesive - 1Litre / 33m<sup>2</sup> coverage
- CELLECTA ScreedBoard fixing tools
- Sound absorbing quilt laid between joists:
  - 50mm CELLECTA FIBREfon Micro 50 non-itich polyester quilt
  - 100mm (min) Mineral wool 10-33kg/m<sup>3</sup>

**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 YELOfon FS50 flanking strip.  
Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

Table WA9.tf03b

### 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 centres.

**CT1**-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m<sup>2</sup>) fixed with 32mm screws and 12.5mm (nominal 10kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

**CT2**-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

**Plus sacrificial ceiling**  
Metal ceiling system with a 150mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m<sup>2</sup> gypsum based board.

**CT3** - 30mm CELLECTA HP30 resilient bars mounted at right angles to the joists at 600mm (max) centres.

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

### Acoustic Performance

<b>Airborne:</b>	<b>51dB <math>D_{nT,w} + C_{tr}</math></b>	Building Regulations
<b>Impact:</b>	<b>55dB <math>L_{nT,w}</math></b>	<b>+ 5dB</b>

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).  
Airborne performance tested in accordance with BS EN ISO 140-4:1998  
Impact performance tested in accordance with BS EN ISO 140-7: 1998

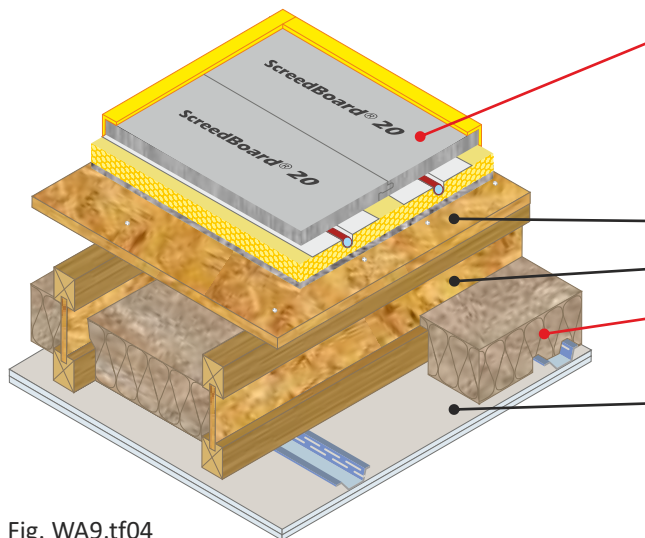
### Third Party Accreditation and Approvals



CELLECTA **ScreedBoard 20** laid on under floor heating insulation board

**FIBREfon 8** resilient layer laid on timber sub-deck

Use with timber frame walls only



**Floating floor treatment**

**CELLECTA ScreedBoard 20**

Highly conductive interlocking floorboard

**CELLECTA ULTRAplate 0.5**

Aluminium heat diffuser plate manufactured to suit pipe diameter

**CELLECTA XFLO 250/300/500**

High compressive strength underfloor heating insulation board

**CELLECTA FIBREfon 8** Resilient layer

**Floor decking**

15mm<sup>(1)</sup> (min) thick wood based board

**Joists**

235mm<sup>(2)</sup> (min) timber I-joists

**Absorbing material**

○ 50mm **CELLECTA FIBREfon Micro 50**

● 100mm (min) quilt insulation (10-36kg/m<sup>3</sup>)

**Ceiling**

See Table WA9.tf04b for ceiling treatment options

<sup>(1)</sup> 18mm(min) required for Robust Detail applications

<sup>(2)</sup> 240mm (min) required for Robust Detail applications

Fig. WA9.tf04

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**Plus**

Table WA9.tf04a

### Installation Detail

#### Resilient overlay platform floor system

**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

**Underfloor heating insulation board**  
**XFLO** Routed high compressive strength 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 ES5/100**  
 Perimeter edge strip  
 Dimensions: 5mm x 100mm x 50m

**Additional items required**  
 CELLECTA PRO joint adhesive - 1Litre / 33m<sup>2</sup> coverage  
 CELLECTA ScreedBoard fixing tools  
 Sound absorbing quilt laid between joists:  
 ○ 50mm **CELLECTA FIBREfon Micro 50** non-itch polyester quilt  
 100mm (min) Mineral wool 10-33kg/m<sup>3</sup>

**HIGH COMPRESSIVE**  
 250-500kPa  
**STRENGTH XPS**

**R-value: 0.237m<sup>2</sup>K/W**

**R-value: 0.050m<sup>2</sup>K/W**

**Screedboard 20 is 5x more thermally conductive** than a FFT1 floor treatment (18 chipboard + 19mm plasterboard plank), allowing heat pumps and boilers to run at maximum efficiency and the UFH system to be more responsive.

Table WA9.tf04b

### 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 centres.

**CT1**-Two layers of gypsum-based board, composed of 19mm (nominal 13.5kg/m<sup>2</sup>) fixed with 32mm screws and 12.5mm (nominal 10kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

**CT2**-Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

**Plus sacrificial ceiling**  
 Metal ceiling system with a 150mm (min) void fixed to underside of primary ceiling. One layer of nominal 8kg/m<sup>2</sup> gypsum based board.

**CT3** - 30mm **CELLECTA HP30** resilient bars mounted at right angles to the joists at 600mm (max) centres.

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m<sup>2</sup>) fixed with 42mm screws, with all joints staggered.

**Construction note**  
 Services must not puncture primary ceiling lining (except cables, which should be sealed with flexible sealant).

### Acoustic Performance

<b>Airborne:</b> 52dB $D_{nT,w} + C_{tr}$	Building Regulations
<b>Impact:</b> 55dB $L_{nT,w}$	+ 5dB

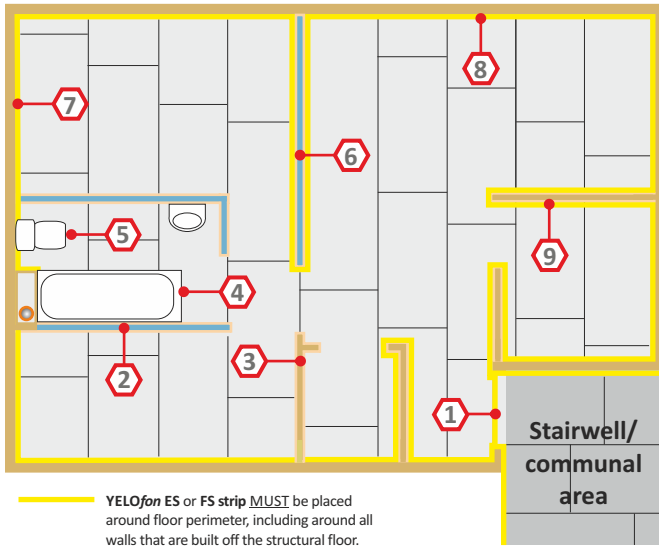
Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).  
 Airborne performance tested in accordance with BS EN ISO 140-4:1998  
 Impact performance tested in accordance with BS EN ISO 140-7: 1998

### Third Party Accreditation and Approvals



# 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.

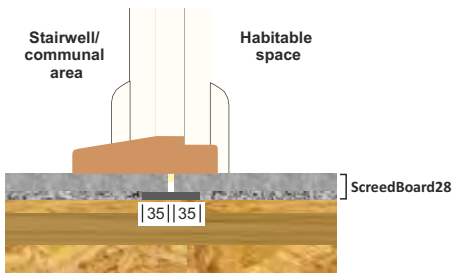


### Fixing tools required

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

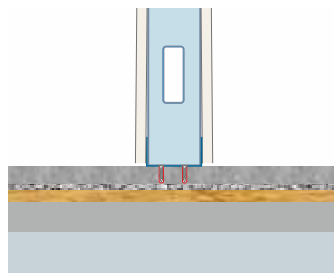
Installation video on the **CELLECTA** app

### 1 Door threshold



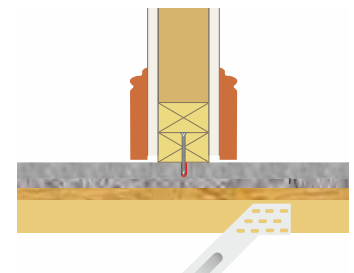
To add additional support, trim off 35mm of the resilient later from the leading edges and install a 75mm wide **RUBBERfon Threshold Support Strip (TTS)**.

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



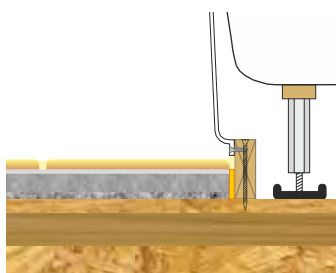
Non-load bearing metal frame walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws **DO NOT** penetrate the resilient layer.

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



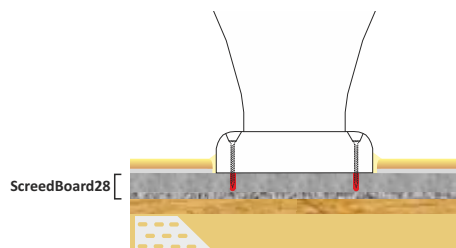
Non-load bearing timber stud walls can be built directly off the **ScreedBoard 20/28**. Care should be taken to ensure screws **DO NOT** penetrate the resilient layer.

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



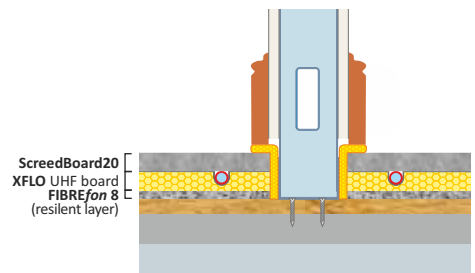
Baths, shower trays and sanitary ware built off the structural floor should be isolated from the **ScreedBoard 28** and any floor finished.

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



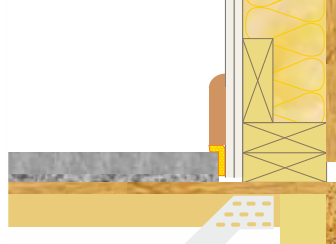
Baths, shower trays and sanitary ware can be built directly off the **ScreedBoard 28**. Ensure the screws do not penetrate the resilient layer.

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



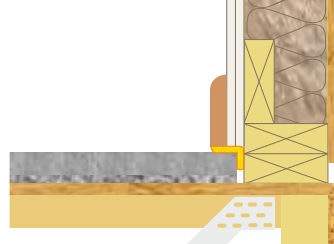
Lightweight partition walls built off the structural floor **MUST** be isolated from the **ScreedBoard** with **YELOfon FS50** or **ES5/100** flanking strip.

### 7 Wall treatment installed before the ScreedBoard 28



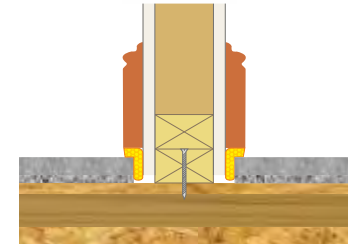
Wall treatments **MUST** be isolated from the **ScreedBoard 28** with **YELOfon FS50** strip.

### 8 Wall treatment installed after the ScreedBoard 28



Wall treatments **MUST** be isolated from the **ScreedBoard 28** with **YELOfon FS50** 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.