

# Solid timber joist separating floor

# Acoustic Treatment + UFH

CELLECTA Mojave® acoustic / UFH floating floor system laid on timber sub-deck  
Use with timber frame walls only

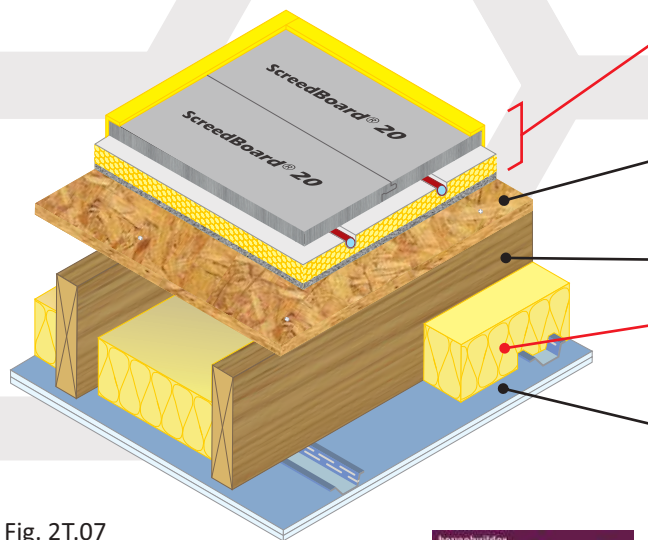


Fig. 2T.07

## Acoustic + UFH treatment

**CELLECTA Mojave® S2/8** acoustic treatment incorporating underfloor heating (see Table 2T.07a for full details)

## Floor decking

11mm (min) thick wood based board, density 600kg/m<sup>3</sup> (min)

## Joists

220mm (min) solid timber joists

## Absorbing material

- 50mm **CELLECTA FIBREfon® Micro 50**
- 100mm (min) quilt insulation (10-36kg/m<sup>3</sup>)

## Ceiling

See Table 2T.07b for ceiling treatment options featuring 30mm deep **CELLECTA HP30** resilient bars



Table 2T.07a

Table 2T.07b

## Installation Details

### Resilient overlay platform floor system incorporating underfloor heating

#### CELLECTA Mojave® S1/8

Dry laid acoustic treatment incorporating underfloor heating system

#### 1 ScreedBoard® 20

High conductivity overlay board  
Dimensions: 20mm x 600mm x 1200mm  
Weight: 25kg/m<sup>2</sup> / 18.00kg/board  
Thermal resistance: 0.05m<sup>2</sup>K/W

#### A CELLECTA Pro Adhesive

ScreedBoard joint adhesive  
Bottle size: 1L / 33m<sup>2</sup> coverage

#### 2 ULTRAplate

Aluminium heat diffuser plate (to suit pipe installed)  
Dimensions: 130mm x 1000mm

#### 3 XFLO® 250, 300, 500 (kPa)

High compressive strength routed XPS insulation  
Dimensions: 15-75mm x 600mm x 2500mm  
Pipe centre: 150, 200, 300mm  
Pipe bore size (OD): 10 - 20mm (manufactured to suit)

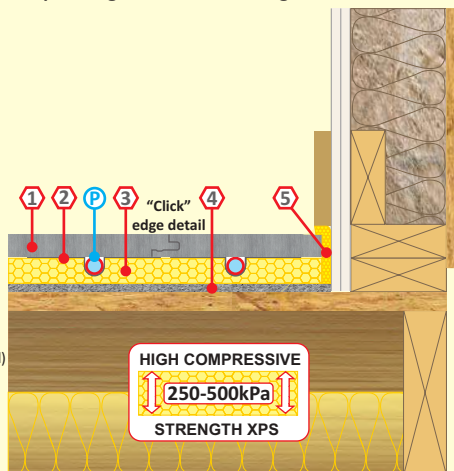
#### 4 FIBREfon® 8

High performance resilient layer  
Dimensions: 8mm x 600mm x 1200mm  
Weight: 1kg/m<sup>2</sup> / 0.72kg/board

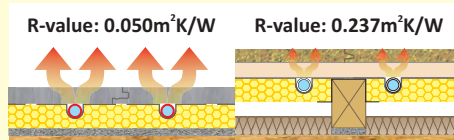
#### 5 YELOfon® ES5/100

Perimeter edge strip  
Dimensions: 5mm x 100mm x 50m

#### P UFH water pipe (by others)



Screedboard 20 is **5x more thermally conductive** than an 18mm chipboard + 19mm plasterboard plank combination, enabling the underfloor heating system to be more responsive and the heat source to run more efficiently at a lower temperature.



## Ceiling Treatment Options

Ceiling boards must not penetrate or touch joists

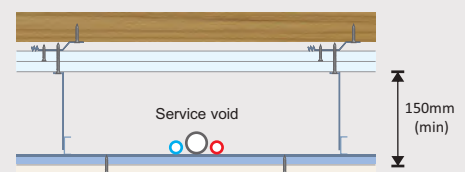
16mm (min) metal resilient bars mounted at right angles to the joists at 400mm centres.

**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>52dB <math>D_{nT,w} + C_{tr}</math></b>
<b>Impact:</b>	<b>55dB <math>L_{nT,w}</math></b>

<b>Building Regs</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



## Environmental Credentials



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