

Acoustic + UFH treatment

CELLECTA Mojave® S1/8 acoustic treatment incorporating underfloor heating (see Table 2T.12a for full details)

Floor planks

200mm (min) CLT floor planks

Absorbing material

○ 50mm **CELLECTA FIBREfon® Micro 50**
● 100mm (min) quilt insulation (10-36kg/m³)

Ceiling

See Table 2T.12b for ceiling treatment options

Fig. 2T.12



Table 2T.12a

Table 2T.12b

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/m² / 18.00kg/board
Thermal resistance: 0.05m²K/W

A CELLECTA Pro Adhesive

ScreedBoard joint adhesive
Bottle size: 1L / 33m² 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)

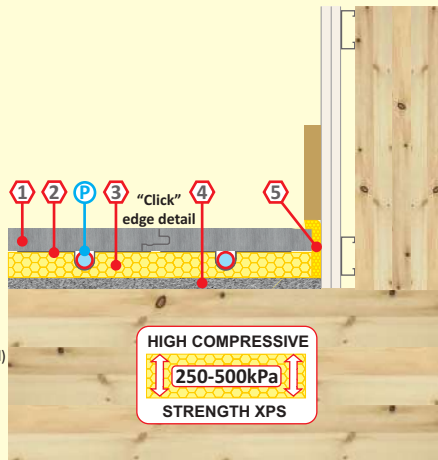
4 FIBREfon® 8

High performance resilient layer
Dimensions: 8mm x 600mm x 1200mm
Weight: 1kg/m² / 0.72kg/board

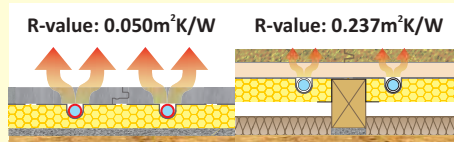
5 YELOfon® ES5/100

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

P UFH water pipe (by others)



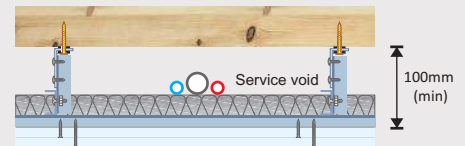
Screedboard 20 is **5x more thermally conductive** than an 18mm chipboard + 19mm plasterboard plank combination, enabling the underfloor heating system to be more responsive and the heat source to run more efficiently at a lower temperature.



Ceiling Treatment Options

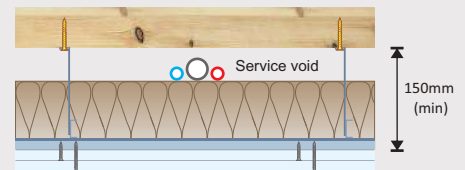
CELLECTA Ultra Ceiling: Metal frame ceiling system incorporating **CELLECTA AH50** acoustic hangers - unique rubber isolated hanger fixed to MF ceiling strap/profile with suitable fixings. 100mm void (min)

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.



Any metal frame ceiling system - 150mm void (min)

Two layers of gypsum-based board, composed of 15mm (nominal 12.5kg/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.



Sound absorbing quilt fitted in ceiling void

○ 50mm **CELLECTA FIBREfon Micro 50**
● 100mm (min) mineral wool quilt 10-35kg/m³

Acoustic Performance

Airborne:	50dB $D_{nT,w} + C_{tr}$
Impact:	54dB $L_{nT,w}$

Building Regs
+ 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



Environmental Credentials



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