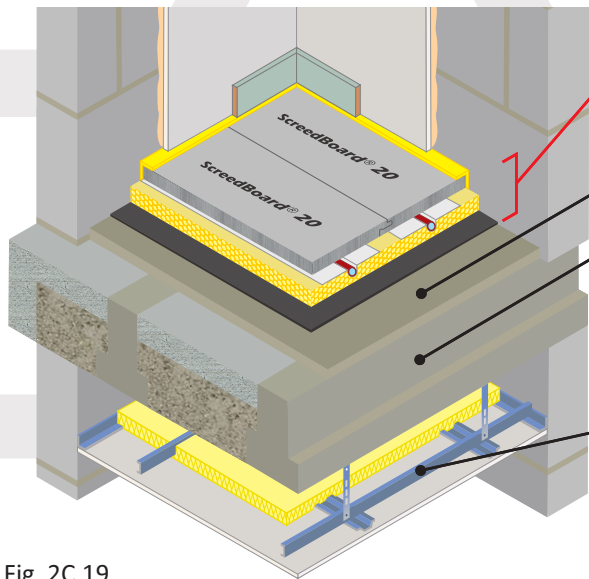


Modified beam & block separating floor

PCT solution to Robust Detail: E-FC-7 + UFH

CELLECTA Mojave® acoustic/UFH floating floor system
 Modified beam and block floor with precast or in-situ edge beams
 For use with dense aggregate block flanking walls only



Acoustic + UFH treatment **CELLECTA Mojave®** acoustic treatment incorporating underfloor heating (see Table 2C.19a for full details)

Levelling screed 10mm (min) levelling screed

Structural floor Beam and block, min 100mm thick dense aggregate infill blocks, min 50mm concrete topping, min strength class C20, to floor blocks, min 300kg/m² (min) combined mass per unit area

Ceiling See Table 2C.19b for ceiling treatment options

Fig. 2C.19



Table 2C.19a

Installation Details

Resilient overlay platform floor system incorporating underfloor heating

CELLECTA Mojave® (S1/3 shown)
 Dry laid acoustic treatment incorporating underfloor heating system

- ScreedBoard® 20**
 High conductivity overlay board
 Dimensions: 20mm x 600mm x 1200mm
 Weight: 25kg/m² / 18.00kg/board
 Thermal resistance: 0.05m²K/W
- CELLECTA Pro Adhesive**
 ScreedBoard joint adhesive
 Bottle size: 1L / 33m² coverage
- ULTRAplate**
 Aluminium heat diffuser plate (to suit pipe installed)
 Dimensions: 130mm x 1000mm
- XFLO® 250/300/500**
 High compressive strength routed XPS insulation board
 Dimensions: 15-75mm x 600mm x 1200/2500mm
 Pipe centres: 150, 200, 300mm
 Pipe bore size (OD): 10 - 20mm (manufactured to suit)
- RUBBERfon® Impact 3**
 High density recycled rubber
 Dimensions: 3mm x 1m x 15m (15m²)
- YELOfon® ES5/120**
 Perimeter edge strip
 Dimensions: 5mm x 120mm x 50m

UFH water pipe (by others)

**CLASS Bfl,S1
 BS EN13501-1**

Table 2C.19b

Ceiling Treatment Options

Metal frame ceiling system providing a overall depth of not less than 300mm from top of beam and ceiling board

One layer of nominal 10kg/m² gypsum-based board 25mm (min) fibre quilt (min 10kg/m³) in ceiling void to cover whole ceiling board area

Construction notes
 Slab/levelling screed must be to SR2 Standard when adopting the Mojave system.
 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 ES5/120**.

Acoustic Performance

Airborne: 53dB $D_{nT,w} + C_{tr}$	Building Regs
Impact: 51dB $L_{nT,w}$	+ 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



Environmental Credentials

