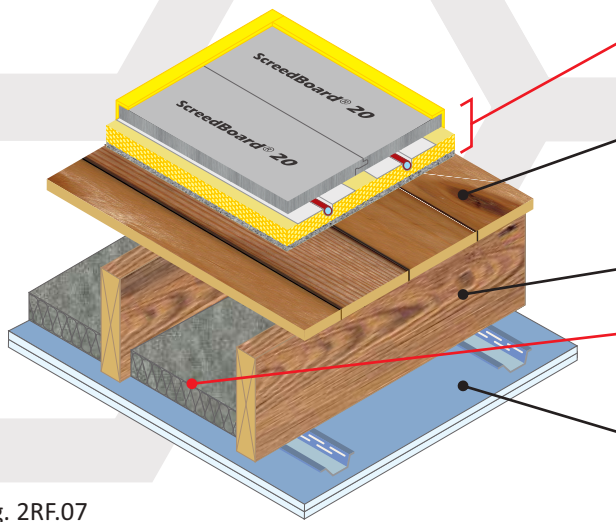


Refurbishment/conversion timber separating floor

CELLECTA Mojave® dry laid resilient system incorporating underfloor heating
Existing timber joists
New ceiling fixed to resilient bars



Floating floor treatment +UFH

CELLECTA Mojave® S1-8 platform floor system incorporating underfloor heating

Floor decking

15mm thick (min) wood based board, density 600kg/m³ (min) or existing floor boards (with all gaps sealed with suitable flexible mastic)

Joists

200mm (min) solid timber joists

Absorbing material

- 50mm CELLECTA FIBREfon® Micro 50
- 100mm (min) mineral wool (45kg/m³)

Ceiling

See Table 2RF.07b for ceiling treatment

Fig. 2RF.07



Table 2RF.07a

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:
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):
130mm x 1000mm
- 3 XFLO® 250, 300, 500**
High compressive strength routed XPS insulation board:
15-75mm x 600mm x 1250/2500mm
Compressive strengths available: 250, 300, 500kPa
Pipe centre: 150, 200, 300mm
Pipe bore size (OD): 10 - 20mm (manufactured to suit)
- 4 FIBREfon® 8**
High performance resilient layer:
8mm x 600mm x 1200mm
Weight: 1.00kg/m² / 0.72kg/board
- 5 YELOfon® ES5/120**
Perimeter edge strip:
5mm x 120mm x 50m
- P UFH water pipe (by others)**

HIGH COMPRESSIVE STRENGTH XPS

250-500kPa

Table 2RF.07b

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/m²) fixed with 25mm screws and a second layer of 15mm (nominal 12.5kg/m²) fixed with 42mm screws, with all joints staggered.

+ 3 dB R_w + C_{tr}⁽¹⁾

+ 2 dB L_{n,w}⁽¹⁾

⁽¹⁾Typical dB improvement of HP30 over 16mm resilient bars.

Acoustic Performance

Airborne: 52dB R_w + C_{tr}

Impact: 54dB L_{n,w}

Performance values quoted were achieved using 50 x 235mm solid timber and 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



Environmental Credentials

