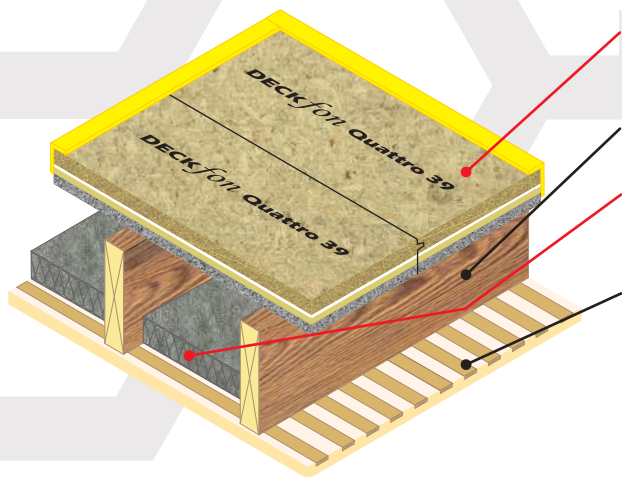


# Refurbishment and conversion timber separating floor

CELLECTA DECKfon® Quattro 39 acoustic treatment laid directly on existing timber joists  
Existing ceiling retained or up-graded



Floating floor treatment

CELLECTA DECKfon® Quattro 39  
(See Table 2RF.01a for full details)

Floor joist

200mm (min) solid timber joists

Absorbing material

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

Ceiling

See Table 2RF.01b for ceiling treatment

Fig. 2RF.01

**FASTRACKCAD**  
ARCHITECTURAL CAD DATABASES

**n55Plus**

Table 2RF.01a

### Installation Details

#### Structural composite treatment laid directly on floor joists - Ceiling retained

1 **DECKfon® Quattro 39** Composite acoustic direct to joist floorboard  
39mm x 600mm x 2400mm  
Weight: 20.95kg/m² / 30.17kg/board

A **CELLECTA fon Adhesive**  
ScreedBoard joint adhesive  
Bottle size: 1L / 33m² coverage

2 **YELOfon® ES5/120**  
Perimeter edge strip: 5mm x 120mm x 50m

Additional item required:  
◊ 50mm CELLECTA FIBREfon Micro 50 non-itch polyester quilt  
● 100mm (min) mineral wool 45kg/m³

450mm centres (max)

<b>Airborne</b> 49dB $R_w + C_{tr}$	<b>Impact</b> 58dB $L_{n,w}$
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Table 2RF.01b

### Ceiling Treatment Options

**Ceiling treatment**  
Lath and plaster or plasterboard ceiling with minimum mass of 16kg/m², fixed directly to floor joists.

**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, as shown.

**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.

30mm void

HP30 resilient bars set at 600mm (max) centres

#### Structural composite treatment laid directly on floor joists - New ceiling

1 **DECKfon® Quattro 39** Composite acoustic direct to joist floorboard  
39mm x 600mm x 2400mm  
Weight: 20.95kg/m² / 30.17kg/board

A **CELLECTA fon Adhesive**  
ScreedBoard joint adhesive  
Bottle size: 1L / 33m² coverage

2 **YELOfon® ES5/120**  
Perimeter edge strip: 5mm x 120mm x 50m

Additional item required:  
◊ 50mm CELLECTA FIBREfon Micro 50 non-itch polyester quilt  
● 100mm (min) mineral wool 45kg/m³

450mm centres (max)

<b>Airborne</b> 54dB $R_w + C_{tr}$	<b>Impact</b> 48dB $L_{n,w}$
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## Acoustic Performance

Performance values quoted were achieved using 50mm x 235mm solid timber joists installed at Sound Research laboratories, Sudbury. Tested 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



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