



## Acoustic Test Data Sheet 25

### SEPARATING FLOOR



#### SITE

#### TEST ORGANISATION

#### REPORT / TEST No. / TEST DATE

#### TEST METHOD

#### RESULTS

#### Laboratory

Sound Research Laboratories Ltd

C/05/8H/3233/R1 / Tests AF2 and IF2 / 6th April 2005

BS EN ISO 140-4 and 7: 1998

DnT,w (C ; Ctr) - 53 (-3 ; -7) dB

DnT,w + Ctr - 46 dB

L'nT,w (CI) - 50 (-1) dB

#### FLOOR CONSTRUCTION

- 150mm precast concrete floor slabs (300kg/m<sup>2</sup>) built into cavity block walls on four sides.
- Joints between blocks and beams sealed with sand cement grout mix.
- One layer of 10mm Flexfon
- 40mm Gyvlon levelling screed applied over a polyethylene slip-sheet with a perimeter strip of Yelofam E strip (10mm x 150mm)
- A ceiling comprising 12.5mm standard grade (Type 1) plasterboard fixed to the M/F ceiling system set to give a 100mm cavity

The results show that this floor system, as tested in conjunction with the associated constructions detailed above, is able to achieve the sound insulation performance required in the Building Regulations 2000, Approved Document E, 2003 Edition.

If this floor system were to be used on site with an equivalent construction and same build quality, similar results would be expected.

#### BUILDING CONSTRUCTION DETAILS

Sound Research Laboratories Ltd. flanking transmission test laboratory at Holbrook House, Little Waldingfield, Sudbury, Suffolk. A two-storey purpose built test unit comprising cavity dense concrete block walls, a precast concrete first floor and a flat timber joist roof. Single rooms at ground and first floor level each approximately 25m<sup>3</sup> with a separating floor area of 10m<sup>2</sup>. Two leaves of 100mm dense concrete blocks with a 50mm cavity with wall ties at 600mm centres horizontally and 450mm vertically. 50mm Rockwool cavity closer (45kg/m<sup>3</sup>) running horizontally at the separating floor junction. Internal faces of block work finished with 12.5mm standard grade (Type 1) plasterboard fixed on plaster dabs.

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