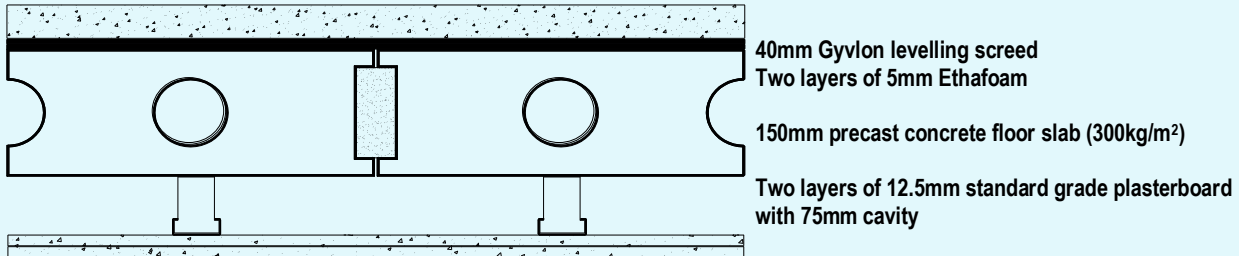




Acoustic Test Data Sheet 05

SEPARATING FLOOR



SITE

TEST ORGANISATION

REPORT / TEST No. / TEST DATE

TEST METHOD

RESULTS

Laboratory

Sound Research Laboratories Ltd

C/03/5L/0726/1 / Tests AF1 and I1 / 20th June 2003

BS EN ISO 140-4 and 7: 1998

DnT,w (C ; Ctr) - 54 (-2 ; -6) dB

DnT,w + Ctr - 48 dB

L'nT,w (C1) - 54 (-1) dB

FLOOR CONSTRUCTION

- 150mm precast concrete floor slabs (300kg/m²) built into cavity block walls on four sides.
- Joints between blocks and beams sealed with sand cement grout mix.
- Two layers of 5mm Ethafoam butt jointed and taped.
- 40mm Gyvlon levelling screed applied over a polyethylene slip-sheet with a perimeter strip of 8mm polyethylene foam.
- A ceiling comprising two layers of 12.5mm standard grade (Type 1) plasterboard fixed to system support channels at 400mm centres and a clear cavity of 75mm.

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 25m³ with a separating floor area of 10m². 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/m³) 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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Lafarge Gyvlon Limited

Unit 221 Europa Boulevard,
Westbrook, Warrington WA5 7TN

sales@gyvlon.co.uk
01925 428780



www.gyvlon.co.uk



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