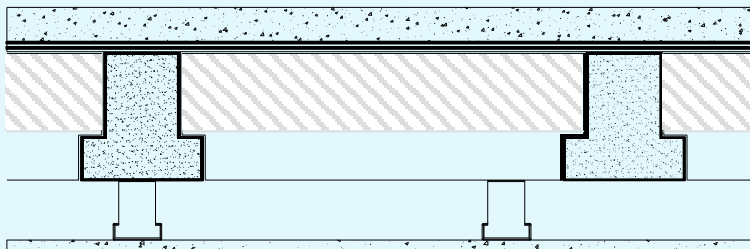




Acoustic Test Data Sheet 01

SEPARATING FLOOR



40mm Gyvlon levelling screed
Two layers of 5mm Ethafoam

150mm concrete beam and block floor (300kg/m²)

12.5mm standard grade plasterboard with 75mm cavity

SITE

TEST ORGANISATION

REPORT / TEST No. / TEST DATE

TEST METHOD

RESULTS

Laboratory

Sound Research Laboratories Limited

C/03/5L/0726/1 / Tests AF3 and I3 / 24th June 2003

BS EN ISO 140-4 and 7: 1998

$D_{nT,w}$ (C ; C_{tr}) - 52 (-2 ; -7) dB

$D_{nT,w} + C_{tr}$ - 45 dB

$L'_{nT,w}$ (C_i) - 59 (-2) Db

FLOOR CONSTRUCTION

- 150mm concrete beam and block floor (300kg/m²) built into cavity block walls on four sides.
- Where beams were running parallel to walls, tray blocks with insitu concrete were installed.
- 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 12.5mm standard grade (Type 1) plasterboard fixed to the 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 concrete beam and block 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.