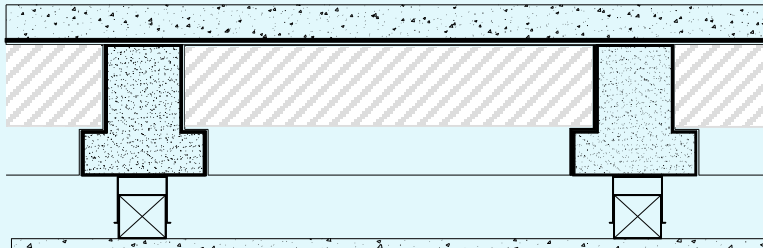




Acoustic Test Data Sheet 13

SEPARATING FLOOR



40mm Gyvlon levelling screed
6mm Isorubber Comfort

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

Isosonic hanger with 48x48mm timber battens at 600mm centres (75mm cavity)
12.5mm standard grade plasterboard

SITE

TEST ORGANISATION

REPORT / TEST No. / TEST DATE

TEST METHOD

RESULTS

Laboratory

Sound Research Laboratories Ltd

C/03/5L/0804/1 / Tests A1 and I1 / 3rd October 2003

BS EN ISO 140-4 and 7: 1998

DnT,w (C ; Ctr) - 51 (-1 ; -4) Db

DnT,w + Ctr - 47 dB

L'nT,w (CI) - 61 (-3) 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.
- One layer of 6mm Isorubber Comfort
- 40mm Gyvlon levelling screed applied over a polyethylene slip-sheet with a perimeter strip of 6mm Isorubber Comfort.
- A ceiling comprising 12.5mm standard grade (Type 1) plasterboard fixed to 48mm x 48mm timber battens set at 600mm centres in Isosonic hangers / stirrups (ceiling cavity 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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