

Llanthwy Road and Stow Hill – Sound Insulation Upgrades

Both 47 Llanthwy Road and 216 Stow Hill Newport will both be upgraded to current building regulation standards, as per Approved Document Part E. The proposed works will also be sound tested to ensure that the criteria in the regulations are met. Generally the upgrade specifications are as follows.

The information provided to Comply with AD party E, is for information only. Contractor to consult with an acoustician prior to commencement.

Separating walls, floors, stairs and party walls to achieve a performance standard of 43 dB (minimum values for airborne sound insulation) and 64 dB to floors and stairs (maximum values for impact sound insulation) to demonstrate compliance with Approved Document E1.

Pre completion sound testing to be carried out by a suitably qualified person with appropriate third party accreditation (either UKAS accreditation or be a member of the Association of Noise Consultants Registration Scheme). Test to be carried out once the dwelling is complete but before carpeting and a copy of the test results given to Building Control.

If any elements were to fail the sound test, remedial works must be undertaken before retesting to the satisfaction of the Building Control Surveyor.

Where flanking walls or floors are continuous across separating walls specialist advice is to be sought to ensure additional treatments are provided to control flanking transmission.

Upgrade of Party Floor - min 200mm existing joists



Existing floor construction. Typically 22mm floor boards on timber joists with 12.5mm plasterboard ceiling.

All existing floor coverings and ceiling linings to be removed.

Floor covering

Provide Fermacell or other approved 2E31 30mm thick, acoustic board overlay, in accordance with manufacturers details.

Underside of floor

Refer to Siniat RTC 051 Direct to timber detail.

Ceiling Inner Layer(s): 1x 15mm GTEC dB Board

Ceiling Outer Layer(s): 1x 15mm GTEC dB Board

Accessories: Single GTEC Resilient Bar at max.

450mm centres

Insulation: 100mm 10.5kg/m³ glass mineral wool

Structure: 47mm x 200mm joists at 450mm

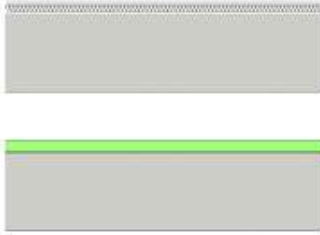
centres without noggings

Flooring Make-up: 22mm tongue and grooved chipboard.

Complies with BS 466-21 and BS EN 1365-2

Refer to Siniat Drywall Manual pages 7 and 35.

Upgrade External Wall



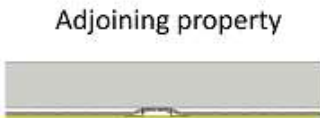
To achieve a U-value of 0.29W/m²K.

The existing external walls must be checked for stability and be free from defects as required by the Building Control Officer. Provide 62.5mm insulated plasterboard to EN ISO 9001:2000 with 3mm skim plaster.

Plasterboard to be bonded, using dot and dab, to the existing construction with proprietary adhesive at 300mm centres vertically/horizontally and in accordance with manufacturer's instructions. Tape joints and seal perimeter edges with mastic, to provide a vapour control layer (VCL). All work in accordance with BS 8212 (Code of practice for dry lining).

New battens may be required. Contractor to check with Building Control Officer prior to proceeding with works.

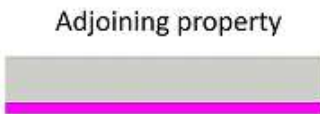
Adjoining Party Wall Upgrade



Existing blockwork wall to be fully exposed and all pointing and blockwork made good. Fire Consultant to inspect walls, prior to covering.

LH Fire confirmed that existing block/ brickwork provides the required fire protection.

Gypliner system B226008



100mm solid block wall of density 1700 kg/m³ with 13mm plaster each side and Gypframe GL1 Lining Channel framework fixed to one side to give 35mm cavity with 25mm Isover Acoustic Partition Roll (APR 1200) in the cavity clad with one layer of Gyproc SoundBloc 12.5mm.

Ensure any mastic seal is approved by the Fire Engineer prior to use and is no more than 20mm in width.

Party Wall Upgrade - Non Load Bearing Timber Walls



Existing timber stud wall to be inspected by contractor. Timber studs must be at least 75 x 38mm.

Refer to British Gypsum A046005(EN)

Two layers of Gyproc SoundBloc 12.5mm each side of 75 x 38mm timber stud (CLS) at 600mm centres with Gypframe RB1 Resilient Bar at 600mm centres to one side. 50mm Isover Acoustic Partition Roll (APR 1200) in the cavity.

Pre completion sound testing to be carried out by a suitably qualified person with appropriate third party accreditation (either UKAS accreditation or be a member of the Association of Noise Consultants Registration Scheme).



Apartment