

dp ACOUSTIC METHOD STATEMENT

Our Reference

HABS ACOUSTIC METHOD STATEMENT

Project

Change of Use & Internal Alterations

Application

Approval of details reserved by condition

Date

July 2025

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APPLICATION DOCUMENTS

HABS Acoustic Method Statement (This Document)
25 HABS PP01 - Proposed Planning Drawing
25 HABS D01 - Detail Sheet 01
Environmental Noise Assessment

1.0 INTRODUCTION

This method statement should be read in conjunction with the Environmental Noise Assessment by Noise.co.uk Ltd along with DP Architect drawings 25 HABS PP01 and 25 HABS D01.

2.0 SCOPE

This method statement applies to the installation of additional acoustic measures to the proposed residential unit to be formed by the change of use of a section of the property known as The Hope and Anchor public house. Each element will be described separately in each section below.

3.0 PURPOSE

This purpose of this method statement is to outline the elements of work which will be carried out to satisfy the recommendations made within the Environmental Noise Assessment by Noise.co.uk Ltd and their method of installation. Technical drawings of these elements are included on DP Architect drawings 25 HABS PP01 and 25 HABS D01.

4.0 APPLICATION

Glazing

Secondary Glazing - to improve the thermal and acoustic performance of the existing windows. 39dB (Rw) - 46dB (Rw) Depending on cavity (50-200mm)

New Glazing - new glazed french door and bifold doors to be installed at the rear of the property. 40dB (Rw) / 35dB (Rw + Ctr)

Party Wall Insulation

To improve the acoustic and fire resistance performance of the new party wall between the dwelling and the remaining public house. Where specified build-up installed adjacent minimum 100mm thick existing wall acoustic rating satisfies Approved Document E - Change of Use requirement. Existing wall masonry construction 360mm thick, over 3x the required minimum thickness to meet the requirements.

Ventilation

Installed where required to meet acoustic specification and ventilation requirements. Trickle vents incorporated into new fenestration, wall vents as required elsewhere. Greenwood Acoustic Wall Ventilators - AWW39 passive wall ventilator is suitable for new build and refurbishment projects and provides an excellent acoustic attenuation to 39dB(A).

Fence

To be installed to separate the residential garden for the dwelling from the beer garden for the pub. Design to meet specification set out in Environmental Noise Assessment.

5.0 MATERIAL

Glazing

Secondary glazing to existing windows

Timber grounds with powder coated aluminium frame fixed over and 6mm toughened glass.

New glazing in rear doors

Conservation style timber glazed doors with 24mm double glazed units.

Party Wall Insulation

Timber frame filled with ROCKWOOL Flexi 50mm insulation, overfixed with 2no. layers of plasterboard with skim finish.

Ventilation

Trickle vents incorporated into new fenestration, material to match rest of frame.
Wall vents - PVC.

Fence

19mm thick treated timber, minimum wooden panel mass of 10Kg/m².

6.0 INSTALLATION

Glazing

Secondary glazing to existing windows

1. Clear existing walls of all fittings, screws etc. and prepare surface.
2. Fix timber grounds to opening with screws, acrylic caulk generously applied to underside of ground. Screws at 600mm centres (min 8no. 1½ CSK).
 - Notch grounds, if required, to take frame screw heads.
3. Apply acrylic caulk to rear of flange flat. Push frame onto grounds, pack and fix square using No. 6 ¾ s.s. screws. Carefully dress mitres flat.
 - Pack as needed at frame fixing points.
4. Double seal with back fillets when packing exceeds 6mm.
5. Insert sashes and 'square' as necessary using wooden block and hammer.
6. Vacuum and clean running tracks.
7. Lubricate with silicone release spray as required.
8. Clean down frame and glass.

New glazing in rear doors

1. Clear existing walls of all fittings, screws etc. and prepare surface.
2. Check for any apparent defects and deficiencies around the structural opening. If any defects are found, rectifying these defects prior to the new door installation.
3. Check structural conditions such as the wall construction, the load capacity or adhesiveness of the edges for adhesive sealing systems, evenness, building moisture, a possibility for load transfer and mounting, constructional tolerances and height reference points.

4. Doors wherever possible to be pre-hung and ready to fit into opening.
5. DPM installed under the cill and up the sides of the door to a height of 300mm.
6. Install frame, packed/ wedged evenly within the existing opening. It is important to ensure that frames are fitted absolutely square and level within the opening, as distortion may prevent doors opening or closing properly.
7. Either fix on stainless steel straps or screw through the frame and packing points directly into the brickwork using a Fischer fixing or similar in stainless steel.
8. Fixings on the jambs should be close to the hinge points often underneath the hinges. For larger windows fix at the head and cill.
9. Screw holes must be plugged, filled (with a quality two part filler) and touched up after fitting.

Party Wall Insulation

1. Clear existing walls of all fittings, screws etc. and prepare surface.
2. Construct timber frame using 50 x 50mm timbers at 600mm centres.
 - Ensure minimum 10mm gap between existing wall and frame.
3. Using a tape measure, measure the internal aperture of the frame.
4. Use an insulation saw, or knife with a serrated blade, for cutting the insulation to size. Do not over cut the insulation. Allow an extra 10mm on both dimensions (width and length) of the insulation, over and above the aperture dimensions.
 - Use 50mm ROCKWOOL FLEXI between the studs.
5. The density and dimensional stability of ROCKWOOL stone wool allows a tight friction fit. It will not require pinning or fixings unless specifically stated otherwise. To install, simply push the insulation into one side of the structure and let the insulation go so it tightly fits into the other side of the structure and holds in place.
 - Ensure there are no visible gaps, as this will negatively affect the installed performance.
6. 2 layers of plasterboard at a minimum of 20kg/m² (approximately equal to 2 x 15 mm layers).
 - Avoid flanking transmission: seal perimeter edges of new plasterboard with tape or ROCKWOOL Intumescent Sealant.
7. Pre-completion site testing to be carried out.

8. Plaster skim finish and decorate as required.

Ventilation

Trickle vents

- Incorporated into new fenestration.

Wall Ventilators

1. Clear existing walls of all fittings, screws etc. and prepare surface.
2. Using a appropriately sized core drill, cut a hole through wall.
3. Measure wall thickness and cut down plastic sleeve as required.
4. Push the sleeve through the wall. The seal will automatically sit between the sleeve and the external grille, providing a watertight fit.
5. Push fit internal grille.

Fence

1. Clear area of all vegetation, surface finishes.
2. Measure out fencing run and divide into bays.
3. Dig a 600mm deep hole and set the first post in postcrete.
 - Allow one bag of postcrete for each post
4. Timber cleats are nailed to the post, and the gravel board nailed to the cleat.
5. Shape the arris rail ends to fit the post mortices.
 - Arris rails must be 100mm longer than gravel board to fit into the mortice.
6. Measure to the next hole and dig the next hole. Stand second post in the hole and fit rails into mortices, bottom rail first, and concrete base.
7. Attach the gravel boards.
8. Work down the fence line keeping it straight and the tops of posts in line.
9. Return to fix stumps to centre of bottom rail to stiffen centre of bay and support weight.
10. Nail the featheredge boards to rails. They sit on top of the gravel board and lap at least 20mm, secured with 50mm galvanised nails.

7.0 SAFETY

Glazing

Secondary glazing to existing windows

- Units contain glass, and dependant on size and weight, seek assistance for handling and supporting the unit whilst moving and installing.
- Follow manufacturer guidelines. Always read and follow the instructions provided by the manufacturer to ensure safe and effective use.

New glazing in rear doors

- Doors are heavy and it is likely that two people (maybe more) will be needed to lift them into position.
- Follow manufacturer guidelines. Always read and follow the instructions provided by the manufacturer to ensure safe and effective use.

Party Wall Insulation

General

- The mechanical effect of fibres in contact with skin may cause temporary itching.
- Cover exposed skin
- When working in unventilated area wear disposable face mask.
- Clean area using vacuum equipment.
- Waste should be disposed of according to local regulations.
- Rinse in cold water before washing.
- Ventilate working area if possible.
- Wear goggles when working overhead.

Installation Preparation

- Wear PPE (personal protective equipment) such as gloves, mask if working in an unventilated area, and eye protection when working overhead. Cover all exposed skin. Refer to the EURIMA health and safety guidelines for further guidance when working with mineral wool.
- Carry out a pre-work safety check, identifying any potential hazards such as

ease of access, work heights, trip hazards, and electrical safety. Check the construction ensuring it is structurally sound and free from defects such as corrosion, splitting, cracking and look for signs of leaks and moisture which can cause rot and mould.

- Clean and prepare the area for installation. Clear space to hold the insulation. When installing overhead wear protective eyewear. If installing at height, it is recommended this is done from a suitable structure such as scaffolding, rather than a step ladder, so that both hands can be used to safely fit the insulation. Ventilate the area if possible, and ensure it is well lit

Ventilation

- Carry out a pre-work safety check, identifying any potential hazards such as ease of access, work heights, trip hazards, and electrical safety. Check the construction ensuring it is structurally sound and free from defects such as corrosion, splitting, cracking and look for signs of leaks and moisture which can cause rot and mould.
- When working in unventilated area wear disposable face mask.
- Clean area using vacuum equipment.
- Waste should be disposed of according to local regulations.
- Ventilate working area if possible.
- Wear goggles when working overhead.
- If the installation involves working at heights, ensure that ladders are stable and securely positioned.

Fence

- Conduct a Site Assessment -Before commencing any installation work, assess the site thoroughly. Identify potential hazards such as underground utilities, uneven terrain, or nearby structures. Mark out these hazards and planning accordingly.
- Use Proper Personal Protective Equipment (PPE) - Workers should wear appropriate PPE such as gloves, safety glasses, hard hats, and steel-toed boots to protect themselves from potential injuries.
- Handle Materials Safely - Use proper lifting techniques to avoid strains or back injuries. Additionally, ensure that materials are stored securely to prevent them

- from falling or causing tripping hazards.
- Follow Manufacturer Guidelines - Adhering to manufacturer guidelines is essential. Always read and follow the instructions provided by the manufacturer to ensure safe and effective use.
- Secure the Work Area - Keep the work area clean and organized. Remove debris, tools, and equipment from walkways to prevent tripping hazards. Additionally, barricade the work area to keep unauthorised personnel away from potential dangers.
- Work Safely at Heights - If the fence installation involves working at heights, ensure that ladders are stable and securely positioned.

8.0 OPERATION

Pre-completion site testing must be carried out to ensure specified acoustic levels have been achieved. Any remedial work to be carried out and re-tested.

Glazing

All doors, windows and secondary glazing to remain closed wherever possible. All fenestration should be checked regularly and cleaned. Repairs made where necessary.

Party Wall Insulation

Maintained as required, no holes or alterations to be made to insulated stud to ensure acoustic specification is not impacted or reduced.

Ventilation

All vents to be inspected regularly and cleaned, repairs or replacement carried out where necessary.

Fence

Maintained as required, no holes to be cut in the fence or alterations to ensure acoustic specification is not impacted or reduced.