

Schedule of works

Extractor fan Installation - Helios GBW 560/4

Item

- 1 Preparation & Survey - Drawings produced
- 2 Core opening
 - a Core-drill opening of 560mm through external brick wall
 - b Drilled using diamond coring to minimise vibration and avoid damage to masonry.
 - c Brickwork edges dressed neatly; lime mortar used for patching.
- 3 Installation of Ductwork
 - a Install galvanised or stainless-steel circular ductwork sized to match the Helios GBW 560/4 output.
 - b Seal all duct joints and ensure correct fall/gradient for airflow.
 - c Route ducting along the least intrusive path, avoiding historic structure wherever possible.
 - d Mount ducting on anti-vibration supports to reduce noise transmission.
 - e Install fire-rated duct sections where required by regulations.
- 4 Installation of Extract Fan (Helios GBW 560/4)
 - a Position the Helios GBW 560/4 Gigabox centrifugal fan internally or externally (weather-protected).
 - b Fit flexible connectors at the fan inlet/outlet to prevent vibration transfer.
 - a Connect electrical supply via dedicated isolator, installed by a qualified electrician.
 - b Ensure adequate service access for future maintenance.
- 5 Odour, Grease & Noise Control Measures
 - a Ensure compliance with DEFRA/EMAQ commercial kitchen odour and noise guidance.
- 6 External Discharge Point
 - a Terminate duct via low-profile weather louvre or discharge hood.
 - b Colour-match the external unit to existing brickwork (e.g., black or brown) to minimise visual impact.
 - c Fix louvre using stainless-steel fixings; seal penetration with lime mortar.
 - d Locate termination on the least visible elevation.
 - e Ensure discharge direction and velocity meet environmental health requirements.
- 7 Internal Making-Good
 - a Carry out all internal making-good using lime plaster; ensure works remain reversible where practicable.
- 8 Commissioning & Final Checks
 - a Commission system to verify airflow performance.
 - b Measure operational noise levels and confirm compliance.
 - c Test odour and grease filtration performance.
 - d Provide operation and maintenance manual to the client.

Schedule of material

Extractor fan Installation

Item

- 1 Core Opening
 - a Diamond core drill (560 mm diameter)
 - b Low-vibration coring rig
 - c Lime mortar (NHL 3.5 or equivalent) for patching
 - d Matching brick slips/bricks for external repair (if required)
- 2 Ductwork System
 - a Galvanised or stainless-steel circular ductwork (1.0–1.2 mm gauge)
 - b Duct fittings: bends, straight lengths, reducers
 - c High-temperature duct sealant and EPDM gaskets
 - d Stainless-steel band clamps for joints
 - e Anti-vibration duct hangers and brackets
 - f Vibration isolation pads
 - g Galvanised or unistrut support framework
 - h Fire-rated duct sections (EI60/EI120 as required)
 - i Intumescent fire sleeves or penetration collars
 - j Extract Fan Unit
- 3 Helios GBW 560/4 Gigabox centrifugal fan
 - a Weather-protected housing (if externally mounted)
 - b Flexible anti-vibration connectors (inlet & outlet)
 - c Fan mounting frame/brackets
 - d Acoustic insulation mat (if noise mitigation required)
- 4 Electrical Equipment
 - a Fan isolator switch (lockable, 3-pole)
 - b Armoured cable (SWA) or fire-rated cable
 - c IP-rated metal junction boxes
 - d Fan speed controller (if required)
 - e Emergency shut-off device
 - f Overload protection in accordance with manufacturer guidance
- 5 Odour, Grease & Noise Control
 - a Stainless-steel baffle grease filters
 - b Pre-filters (if required)
 - c Activated carbon filters / carbon canisters (if required by Environmental Health)
 - d Inline or external acoustic silencer
 - e Acoustic duct lagging (mineral wool with foil finish)
- 6 External Discharge Point
 - a Low-profile weather louvre or discharge hood
 - b Bird mesh / anti-vermin grille
 - c Stainless-steel fixings
 - d Lime mortar for sealing external penetration
 - e External-grade silicone, colour-matched
 - f Powder-coated finish to match existing façade (e.g., black or brown)
- 7 Internal Making-Good
 - a Lime plaster (2–3 coat system)
 - b Breathable heritage-compatible paint
 - c Minor joinery repairs where duct passes internally
- 8 Commissioning & Documentation
 - a Airflow testing equipment (balometer/anemometer)
 - b Sound level meter
 - c Test certificates and compliance documentation

d Operation & Maintenance Manual
e As-built drawings

Schedule of works

Front door Installation

Item

1 Pre-Start

- a Confirm final door design and materials with the Conservation Officer.
- b Carry out a measured survey and take photographs of the existing shopfront.

2 Protection & Preparation

- a Protect surrounding historic elements, including existing glazing, frames, and pilasters.
- b Set up safe working area to avoid damage to the listed building.

3 Removal of Existing Shopfront Panel

- a Carefully remove the existing panel/window section within the shopfront where the new d
- b Retain any historic elements for reuse where required.

4 Making Good the Opening

- a Repair and prepare the existing frame/reveals as needed using like-for-like materials (e.g
- b Ensure no alteration to the size of the original opening.

5 Installation of New Glass Door

- a Install new door frame into the existing opening.
- b Fit the new glass door, ensuring it matches the approved design and does not affect surr
- c Install minimal, heritage-appropriate ironmongery.

6 Finishing Works

- a Seal and finish edges using conservation-appropriate materials.
- b Touch up surrounding areas to match existing appearance.

7 Final Checks

- a Test the operation of the door.
- b Remove protection and clean the area.
- c Provide final photographs for planning/conservation records if required.

}, timber repairs, lime-based fillers if required).

Schedule of material

Front Door Installation

Item

1 Door Assembly

Door Type

- a Single glazed entrance door installed within the existing shopfront opening.

Glass Specification

- b Laminated and toughened safety glass (min. 10–12 mm).
- c Clear, low-iron glass to preserve the open visual character of the High Street 1
- d No tint or frosting unless specifically approved by conservation.

Frame Material

- e Hardwood timber or powder-coated aluminium with profiles sympathetic to the

Frame Colour

- f Colour to match the existing shopfront or established heritage palette.
- g Final RAL or BS colour to be submitted/approved by Reading Borough Council

2 Ironmongery

- a Stainless-steel hinges/pivot system, concealed where possible.
- b Simple satin stainless-steel or black metal pull handle.
- c Standard mortice or integrated lock with minimal external visibility.
- d Concealed overhead or floor-mounted door closer (heritage-appropriate).

3 Threshold & Surround

Threshold Plate

- a Slimline aluminium or stainless-steel accessibility-compliant threshold.

Perimeter Sealing

- b Clear or colour-matched silicone sealant (heritage-compatible, non-staining).

Gaskets / Backing Rods

- c EPDM gaskets or backing rods, black or clear.

4 Making Good & Repair Materials

Timber Repairs (if required)

- a Hardwood timber sections matching existing profiles and mouldings.

Masonry Repairs

- b Lime mortar (NHL), colour-matched to existing brickwork and surrounding masonry

Paint System

- c Heritage-appropriate breathable exterior paint system.
- d Colour to match existing shopfront finish at **8 High Street, Reading**.

5 Temporary Protection

Protection of Historic Fabric

- a Correx board or similar rigid protection.
- b Padded edge protectors.
- c Breathable dust sheeting.

Temporary Security

- d Temporary timber boarding or door panel during installation.

» traditional shopfront.

il conservation team.