PE01| Proposed West Elevation

00 01 02 03 04 05

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Global Height Benchmark

Datum GCP | Ground Floor Finished Floor Level

All height measurements on this drawing are taken from the existing ground floor finished floor level, which serves as the universal site datum benchmark unless otherwise specified. Heights are set globally based on the primary ground control point established during the survey. If exact coordinates of this ground control point are required, please contact Noble Architecture.

DM04	Chimney Removal
1. Scope	Removal of the chimney section above the roof line along the fascia on the north elevation. The existing chimney breast against the house wall is to remain to maintain brickwork continuity.
2. Tasks	- Remove the chimney section above the roof line, including associated guttering. - Patch roof tiles in to seal the roof. - Block up all internal openings within the chimney. - Line out walls internally as shown on wall upgrade specifications.
3. Compliance	- Follow manufacturer and best practice guidelines for blocking, sealing, and weatherproofing. - Ensure safe working practices at height with secure scaffolding.

EW10	Exterior Cavity Wall - Fully Filled With Insulation
1. Outer Wall Leaf	
1.1. Above DPC	Facing Brickwork – Refer to **BK20** For Full Specification
1.2. Below DPC	Engineering Brickwork – Refer to **BK10** For Full Specification
2. Cavity Insulation	
2.1. Thickness	**150mm**
2.2. Material	Mineral Wool Insulation
2.3. Product	**Knauf Dritherm Cavity Slab** or equivalent
2.4. Performance	Alternatives must achieve a λ Value of **0.032 W/mK** or lower
2.5. Instalation	Ensure insulation is tightly fitted and joints are butted, vertical and horizontal joints between panels should be staggered.
2.6. Accreditations	**CE marked** and **BBA certified** for compliance
2.7. Standards	**BS EN 13162:2012** | Thermal insulation in buildings
3. Cavity Wall Ties	
3.1. Reference	See **RE10** For Full Specification of Ties And Masonry Restraints
4. Inner Wall Leaf	
4.1. Material	**Aircrete Blocks**
4.1. Brand	H+H Celcon
4.2. Product	Standard Grade - 3.6N blocks
4.3. Important	In areas of **High Structural Loading**, the density of blockwork may need to be increased. Consult the **Engineer's Report** to determine locations where blockwork should be upgraded to **7N** blocks or higher for increased load-bearing capacity.
4.3. Dimensions	*Block Length (L)* - **440 mm** | *Block Height (H)* - **215 mm** | *Block Width (W)* - **100 mm**
2.4. Performance	Alternatives must achieve a λ Value of **0.15 W/mK** or better thermal value.
4.4. Note	Use a 1:6 mortar mix for inner leaf blockwork to provide adequate strength while maintaining good workability.
5. Internal Finish	
5.1. Material	Standard 12.5mm Plasterboard
5.2. Instalation	Boards to be applied to walls using plasterboard adhesive.
5.2. Finish	Apply a 3mm skim coat finishing the the board.
5.3. Note	Ensure boards are tightly butted, with all joints taped and sealed before plastering.
6. Part L Compliance	
6.1. Required U-Value	**0.180 W/m²K** - Min for Extension Walls **Approved Part L** *2022 Updates*
9.2. Our Value	**0.179 W/m²K** - ✓ U-Value Achieved ✓ - Exceeds **Part L** requirement

BK10	Brickwork – Below DPC Level
1.1. Material	Use **Engineering Bricks** below the DPC Level.
1.2. Finish Type 1	Use **Blue Smooth Faced Bricks** for the splash course to ensure aesthetic consistency.
1.3. Finish Type 2	Bricks below the splash course should match the **Red** colouring of the host building.
1.4. Dimensions	*Brick Length (L)* - **215 mm** | *Brick Height (H)* - **65 mm** | *Brick Width (W)* - **102.5 mm**
1.5. Grade	Minimum **Class B** engineering brick for use in below-ground conditions.
1.6. Resistance	Maximum water absorption rate ≤ 7% by weight to minimise moisture ingress.
1.7. Strength	Brick **75 N/mm²** compressive strength | Approx. **50 to 60 N/mm²** when bonded with mortar.
1.8. Critical Note	Ensure a minimum composite compressive strength of **50 N/mm²** for the combine brick-mortar assembly.
1.9. Rationale	Engineering bricks are used below DPC for their low moisture absorption, minimising freeze-thaw spalling. Their high strength and water resistance ensure suitable durability below the DPC line or in ground-contact conditions.
1.10. Consideration	If the site falls within a known radon gas area, integrate a **radon protection barrier membrane** into the DPC to meet **BS 8485:2015** standards for ground gas protection.
1.11. Standards	Comply with **BS 8102:2009** for waterproofing below ground. Comply with **BS EN ISO 10211** for thermal bridging. Comply with **BS 8485:2015** for radon and gas protection.

BK20	Mortar – Below DPC Level
2.1. Material	**1:4 Mix** (Cement: Sand) / **M6 Grade** Mortar, providing a durable, frost-resistant mix suitable for below-ground applications.
2.2. Important	Add frost-resistant additives to the mix when working in cold or unpredictable weather conditions to prevent damage.
2.3. Important	Use sulphate-resistant cement or additives if ground conditions are sulphate rich to prevent deterioration of the mortar.
2.4. Standards	Comply with **BS 8215:1991** for below ground damp-proof courses. Comply with **BS EN 771-1** for mortar properties.
2.5. Installation	Brickwork should not be undertaken during periods of harsh prolonged frost or heavy rain to avoid compromising the mortar strength.

WR10	Exterior Window Glazing Specification
1. General Overview	
1.1. Applicability	Applies to habitable rooms (e.g. Living Rooms, Bedrooms) and designated spaces as per Approved Document B.
1.2. Thermal Performance (Part L)	Overall U-value ≤ 1.4 W/m²K; typically achieved with low-E, argon-filled double or triple glazing - Centre-pane U-value ~1.1 W/m²K for double glazing - Centre-pane U-value ~0.8 W/m²K for triple glazing.
1.3. Glazing Safety (Part K)	Safety glass is required for glazing below 800 mm from the floor or near door openings, in accordance with BS 6262.
2. Ventilation	
2.1. Background Ventilation	Minimum 5,000 mm² EA recommended; larger areas may require up to 8,000 mm² EA to ensure sufficient background ventilation.
2.2. Vent Control	Vents should be operable and controllable to manage draughts and maintain indoor comfort.
3. Emergency Egress	
3.2. Escape Openings	Bedrooms must incorporate an emergency escape window as stipulated by Approved Document B. Clear openable area ≥ 0.33 m², with **Minimum Width Of 450 mm**; Window sills should be no higher than 1,100 mm above floor level for safe egress.
4. Frame, Materials & Glazing	
4.1. Material	Frames constructed from uPVC.
4.2. Finish	See Window Schedule.
4.2. Glazing Performance	Glazing must achieve the required U-values with low-E coatings; double or triple glazed units should comply with Part L requirements.
5. Security & Locking Enhancements	
5.1. Locking Mechanism	Windows should incorporate a locking system with anti-pry hardware, in compliance with NHBC and relevant BS standards.
6. Standards Compliance	
6.1. FENSA Compliance	Installation must be carried out by a **FENSA-Registered** installer.
6.2. Relevant Standards	**BS EN 1279-5:2018**
7. Substitutions	Any alternative window system must maintain or exceed the specified thermal, safety, ventilation, and security performance criteria.

PE02| Proposed East Elevation

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BK30	Brickwork – Above DPC Level
1.1. Material	Facing Bricks
1.2. Finish	A mix of red and dark reddish-brown tones; ensuring that the selected bricks match the existing host building in Colour, Finish & Texture to ensure visual consistency.
1.3. Dimensions	**Advised : Imperial Guage Bricks**; to match original host buildings brick gauging height. **Brick Dimensions**: | *Length (L)* **215 mm** | *Width (W)* **102.5 mm** | *Height (H)* **73 mm**
1.4. Note	Add a Decorative Soldier Course Brickwork above openings where indicated on the Elevations Drawings.
1.5. Note	Where possible, **Tooth In** new brickwork to existing rather than using straight butt joints to ensure visual continuity. Areas requiring this treatment are marked **BK30_05** on the drawings.
1.6. Consideration	Maintain the **Existing Brickwork Bond** where possible. The **Front Façade** features **Flemish Bond**, so its preservation is preferred to retain character. **Client To Confirm.**
1.5. Standards	Comply with **BS EN 1996-1-1:2005** masonry structures.
1.6. Client Note	Existing Brickwork presumed to be Imperial Guage; **Client To Confirm Brick Sizes**

BK40	Mortar – Above DPC Level
2.1. Mix Ratio	**1:5 or 1:6** *(1 part Cement: Sand)* – Suitable for general-purpose above-ground applications.
2.2. Finish	Ensure Mortar matches existing host building in Colour & Texture to ensure visual consistency.
2.3. Application	Ensure that all mortar joints are full and well compacted, ensuring that the **Mortar Joint Pointing** matches the host structure.
2.4. Installation	Avoid brickwork during periods of frost or heavy rain to prevent compromising the quality of the mortar.
2.5. Standards	Comply with **BS EN 771-1** for mortar properties.

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PE04 | Proposed South Elevation

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