

Greig & Stephenson Architects Limited

Kirklees Council

Huddersfield Market Regeneration Project

NBS - Huddersfield Market

HMH-GSA-XX-XX-T-A-1590

04-02-2026

Windows/ rooflights/ screens/ louvres

Regeneration of Huddersfield Market and surrounding
public realm

Contents

L10 Windows/ rooflights/ screens/ louvres 01

Rev	Date	Comments	WTN	CHK
P01	16/01/26	S4 – For Tender	CL	TA
P02	04/02/26	Clause 335A Description updated	CL	NM

L10

Windows/ rooflights/ screens/ louvres

Clauses

To be read with Preliminaries/ general conditions

General

115 Timber procurement

1. Timber (including timber for wood-based products): Obtained from well-managed forests and/ or plantations, in accordance with:
 - 1.1. The laws governing forest management in the producer country or countries.
 - 1.2. International agreements such as the [Convention on International Trade in Endangered Species of wild fauna and flora \(CITES\)](#).
2. Documentation: Provide either in accordance with chain of custody certification scheme requirements:
 - 2.1. Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - 2.2. Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-based products.
3. Chain of custody certification scheme: Contractor's choice in accordance with [UK Timber Procurement Policy \(UKTPP\)](#), i.e. [FSC](#), [GiB](#) or [PEFC](#)
 - 3.1. Other evidence: [UK Timber Procurement Policy \(UKTPP\)](#), Category B

120 Pre-construction survey

1. Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
2. Designated items: As listed within this specification
3. Primary support structure: Carry out survey sufficient to verify that required accuracy and security of erection can be achieved.
4. Timing: Before fabrication.

150 Daylight performance

1. Standard: In accordance with [BS 8206-2](#)
2. Verification
 - 2.1. Submittals: Daylight factor
 - 2.2. Timing: Before placement of orders

155 Views out

1. Windows/ opening sizes and position: In accordance with [BS 8206-2](#)
2. Verification
 - 2.1. Submittals: Design plan and elevation drawings showing: Building location and proximity to external obstructions.
 - 2.2. Timing: Before placement of orders

Products

210A Wood windows New Box Sash Windows

1. Description: To Multi-Faith Room
2. Standard: Non-fire-rated windows to [BS EN 14351-1](#) and [BS 644](#)
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Submit proposals for approval
4. Species: Hardwood
5. Finish as delivered: Manufacturer's full paint system
6. Thermal performance (U-value maximum): 1.6 W/m²K
7. Acoustic performance rating: Manufacturer's standard
8. Fire performance
 - 8.1. Fire resistance: Manufacturer's standard
 - 8.2. Reaction to fire: To [BS EN 13501-1](#), Class B or better
 - 8.3. Fire egress: Not required
9. Glazing details: Double glazed
 - 9.1. Beading: Internal
10. Ironmongery/ accessories: Casement stay, Espagnolette lock, mushroom head, Extension sill, Handle, Locking handle, Restrictor, Aluminium, Security glazing packers
11. Fixing: Screwed to timber framing
12. Verification: Design proposal of window types
Thermal performance
Product verification, inc. samples, certification
 - 12.1. Submittals: drawings, ironmongery samples, certificates
 - 12.2. Timing: Before placing order

210B Wood windows New Box Sash Windows

1. Description: To Female WC
2. Standard: Non-fire-rated windows to [BS EN 14351-1](#) and [BS 644](#)
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Submit proposals for approval
4. Species: Hardwood
5. Finish as delivered: Manufacturer's full paint system
6. Thermal performance (U-value maximum): 1.6 W/m²K
7. Acoustic performance rating: Manufacturer's standard
8. Fire performance
 - 8.1. Fire resistance: Manufacturer's standard
 - 8.2. Reaction to fire: To [BS EN 13501-1](#), Class B or better
 - 8.3. Fire egress: Not required
9. Glazing details: Double obscured glazed
 - 9.1. Beading: Internal
10. Ironmongery/ accessories: Casement stay, Espagnolette lock, mushroom head, Extension sill, Handle, Locking handle, Restrictor, Aluminium, Security glazing packers
11. Fixing: Screwed to timber framing

12. Verification: Design proposal of window types
Thermal performance
Product verification, inc. samples, certification
 - 12.1. Submittals: drawings, ironmongery samples, certificates
 - 12.2. Timing: Before placing order

210C Wood windows

1. Description: Fixed high level glazing to match existing
2. Standard: Non-fire-rated windows to [BS EN 14351-1](#) and [BS 644](#)
3. Exposure category to BS 6375-1/ design wind load: 1200 Pa
4. Operation and strength characteristics: To [BS 6375-2](#).
5. Timber: Generally to [BS EN 942](#).
 - 5.1. Species: Hardwood, as Table NA.2
6. Appearance Class: J10 for glazing beads, drip mouldings, etc. or J40 or better for all other member.
7. Moisture content on delivery: 12–19%.
8. Preservative treatment: Organic solvent, as [section Z12](#), and in accordance with Table 5 of the [Wood Protection Association \(WPA\) Code of practice - industrial wood preservation](#); desired service life 30 years
9. Finish as delivered: Primer and undercoat, as [section M60](#)
10. Thermal performance (U-value maximum): 1.6 W/m²K
11. Acoustic performance rating: Not required
12. Fire performance
 - 12.1. Fire resistance: Not required
 - 12.2. Reaction to fire: To [BS EN 13501-1](#), Class B or better
 - 12.3. Fire egress: Not required
13. Glazing details: site putty glazing by others
14. Beading: Internal
15. Ironmongery/ accessories: Adhesive glazing tape
16. Fixing: Screwed to timber framing
17. Verification: Design proposal of window types
Thermal performance
Product verification, inc. samples, certification
 - 17.1. Submittals: Drawings, certification accreditation by independent third party
 - 17.2. Timing: Before placement of order

335A Aluminium windows New Fixed Aluminium Windows

1. Description: Annexe 01
2. Standard: Non-fire-rated and/ or non-smoke-rated windows to [BS EN 14351-1](#) and [BS 4873](#)
3. Exposure category to BS 6375-1/ design wind load: 1200 Pa
4. Finish as delivered: Polyester powder coating to [BS EN 12206-1](#)
5. Thermal performance (U-value maximum): 1.4 W/m²K
6. Acoustic performance rating: Not required
7. Fire performance
 - 7.1. Fire resistance: To [BS EN 13501-2](#), EI 30 or better
 - 7.2. Reaction to fire: To [BS EN 13501-1](#), Class B or better

- 7.3. Fire egress: Not required
- 8. Glazing details: Manufacturer's standard
 - 8.1. Beading: Internal
- 9. Ironmongery/ accessories: Trickle ventilator Security glazing packer
- 10. Fixing: Screwed to masonry reveal
- 11. Verification: Design proposal of window types
Thermal performance
Product verification certification
 - 11.1. Submittals: Drawings, Contractor's design certification accreditation by independent third party.
 - 11.2. Timing: Before placement of order

335B Aluminium windows New Fixed Aluminium Windows

- 1. Description: Annexe 01 cafe circular window
- 2. Standard: Non-fire-rated and/ or non-smoke-rated windows to [BS EN 14351-1](#) and [BS 4873](#)
- 3. Exposure category to BS 6375-1/ design wind load: 1200 Pa
- 4. Finish as delivered: Polyester powder coating to [BS EN 12206-1](#)
- 5. Thermal performance (U-value maximum): 1.6 W/m²K
- 6. Acoustic performance rating: Not required
- 7. Fire performance
 - 7.1. Fire resistance: To [BS EN 13501-2](#), EI 30 or better
 - 7.2. Reaction to fire: To [BS EN 13501-1](#), Class B or better
 - 7.3. Fire egress: Not required
- 8. Glazing details: Stained glass
 - 8.1. Beading: Internal
- 9. Ironmongery/ accessories: Trickle ventilator Security glazing packer
- 10. Fixing: Screwed to masonry reveal
- 11. Verification: Design proposal of window types
Thermal performance
Product verification certification
 - 11.1. Submittals: Drawings, Contractor's design certification accreditation by independent third party.
 - 11.2. Timing: Before placement of order

460 Framed rooflights to Annex 03

- 1. Manufacturer: [VELUX Company Ltd](#)
 - 1.1. Contact details
 - 1.1.1. Address: Woodside Way
Glenrothes
Fife
KY7 4ND
 - 1.1.2. Telephone: [+44 \(0\)1592 778873](tel:+44(0)1592778873)
 - 1.1.3. Web: <https://www.velux.co.uk/>
 - 1.1.4. Email: architecture@velux.co.uk
 - 1.2. Product reference: [Vario Fixed Rooflight](#) Code: XT.GF.00.IGL
- 2. Form: Fixed rooflight for flat roof.
- 3. Size: 1000 x 1500mm

4. Product performance
 - 4.1. Fire performance
 - 4.1.1. Fire resistance: External fire classification of BROOF(t4) according to EN 13501-5:2016.
 - 4.1.2. Reaction to fire: Class B-s1, d0.
 - 4.2. Whole window U-value: 1.1 W/m²K.
5. Frame
 - 5.1. Material: 5 mm thick aluminium.
 - 5.2. Finish
 - 5.2.1. Coating: Powder coated.
 - 5.2.2. Colour: RAL 9005 gloss 30 (Jet black).
6. Glazing or infill
 - 6.1. Type: Double glazed.
 - 6.2. Construction: Laminated inner pane, UV protecting.
 - 6.3. Coating: LowE as standard.
7. Integral kerb: Plywood, water based white coating, RAL 9010 gloss 30.
8. Operation
 - 8.1. Type: Fixed.
9. Accessories: Include EPDM seals to rooflights
10. Upstand height: 150 mm min, 100mm wide to be provided by contractor with minimum pitch of 3 degree

490A Roof ventilator unit

1. Manufacturer: Monodraught Ltd
 - 1.1. Contact details
 - 1.1.1. Address: Halifax House, High Wycombe, HP12 3SE, United Kingdom
 - 1.1.2. Telephone: +44 (0)1494897700
 - 1.1.3. Web: Monodraught
 - 1.1.4. Email: info@monodraught.com
 - 1.2. Product reference: Windcatcher Heritage
2. Arrangement: Monopitch-mounted.
3. Ventilator type: Square
4. Shape: Duo-pitched.
5. Size: 1400x1400mm external to fit 1020x1020mm opening
6. Outer facing: GRP
7. External finish: GRP
8. Colour: Slate grey
9. Operation
 - 9.1. Type: Electrically powered.
10. Ceiling terminals: Eggcrate.
11. Accessories: None.
12. Damper: Motorised volume control damper assembly c/w Belimo NM24A-SR actuator
13. Louvres: Rain trap louvre 40mm high opening, 70mm pitch

14. **Integral accessories:** Foam wedge to form seal against upstand, Drop Rods and Unistrut support frame, Access panel incorporated within backbox for actuator wiring and future maintenance
15. **Controls:** iNVent2 Intelligent Natural Ventilation Control interface units wall-mounted

610 Wood Shutters

1. **Description:** To street elevations at high level
2. **Timber:** Generally to [BS EN 942](#).
 - 2.1. **Species:** Scots pine
 - 2.2. **Appearance Class:** J40
 - 2.3. **Moisture content on delivery:** 13–19%
3. **Blanking panels:** Not required
4. **Assembly adhesive:** PVAC to [BS EN 204](#), Class D4
5. **Preservative treatment:** Organic solvent, as [section Z12](#), and in accordance with Table 5 of the [Wood Protection Association \(WPA\) Code of practice - industrial wood preservation](#); desired service life 30 years
6. **Finish as delivered:** Primer and undercoat, as [section M60](#)
7. **Fire performance:** Not applicable
8. **Ironmongery/ accessories:** Concealed window restrictors, window chain operator allowing shutters to be linked with operator located at ground floor adjacent to column
9. **Joinery workmanship:** As [section Z10](#).
10. **Fixing:** Screwed and pelleted
11. **Verification:** Design proposal
Component certification
 - 11.1. **Submittals:** Drawings, Contractor's design certification accreditation by independent third party.
 - 11.2. **Timing:** Before placement of order

650A Metal louvres New Louvres to Annexe

1. **Description:** As shown on Annex elevations
2. **Manufacturer:** Contractor's choice
 - 2.1. **Product reference:** Submit proposals for approval
3. **Material:** Aluminium
 - 3.1. **Finish as delivered:** Powder-coated
4. **Fire performance:** Manufacturer's standard
5. **Number of louvre banks:** Manufacturer's standard
6. **Louvre blade pitch and angle:** Pitch: 75 mm
7. **Blanking panels:** Not required
8. **Accessories/ other requirements:** Stainless steel bird mesh
9. **Fixing:** Manufacturer's standard
10. **Verification:** Design proposals of louvres
free area
product verification
 - 10.1. **Submittals:** Manufacturer's technical data
 - 10.2. **Timing:** Before placement of orders

Execution

710 Protection of components

1. **General:** Do not deliver components to site that cannot be installed immediately or placed in clean, dry-floored and covered storage.
2. **Stored components:** Stack them vertically or near-vertically on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.

730 Priming/ sealing

1. **Wood surfaces inaccessible after installation:** Prime or seal as specified before fixing components.

740 Corrosion protection

1. **Surfaces to be protected:** Aluminium alloy components in contact with preservative-treated timber
2. **Protective coating:** Two coats of bitumen solution to [BS 6949](#) or an approved mastic-impregnated tape.
 - 2.1. **Timing of application:** Before fixing components.

750 Building in

1. **General:** Not permitted unless indicated on drawings.
 - 1.1. Brace and protect components to prevent distortion and damage during construction of adjacent structure.

760 Replacement window installation

1. **Standard:** In accordance with [BS 8213-4](#).

765 Window installation generally

1. **Installation:** Into prepared openings.
2. **Gap between frame edge and surrounding construction**
 - 2.1. **Minimum:** 6mm
 - 2.2. **Maximum:** 10mm
3. **Distortion:** Install windows without twist or diagonal racking.

770 Damp-proof courses in prepared openings

1. **Location:** Ensure correct positioning in relation to window frames. Do not displace during fixing operations.

780 Fixing of wood frames

1. **Standard:** As [section Z20](#).
2. **Fasteners:** Stainless steel wood screws
 - 2.1. **Spacing:** When not pre-drilled or specified otherwise, position fasteners not more than 150 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 450 mm centres.

781 Fixing of steel frames

1. **Standard:** As [section Z20](#).
2. **Fasteners:** 10 mm phosphor bronze expanding bolts

- 2.1. **Spacing:** When not pre-drilled or specified otherwise, position fasteners not less than 50 mm and not more than 190 mm from ends of each jamb, adjacent to each hanging point of opening lights and at maximum 900 mm centres.

782 Fixing of aluminium frames

1. **Standard:** As [section Z20](#).
2. **Fasteners:** choose from below to suit location:
 - Stainless steel wood screws
 - 25 x 3 x 150 mm galvanized carbon steel frame cramps
 - 10 mm phosphor bronze expanding bolts
- 2.1. **Spacing:** When not pre-drilled or specified otherwise, position fasteners not more than 250 mm from ends of each jamb, adjacent to each hanging point of opening lights, and at maximum 600 mm centres.

790 Fire-resisting frames

1. **Gap between back of frame and reveal:** Completely fill with intumescent mastic or tape.

800 Backfilling of steel frame sections

1. **Windows fixed direct into openings:** After fixing, fill back of steel frame with waterproof cement fillet.

810 Sealant joints

1. **Sealant**
 - 1.1. **Manufacturer:** Contractor's choice
 - 1.1.1. **Product reference:** Submit proposals
 - 1.2. **Colour:** coloured to match frame colour to external
 - 1.3. **Application:** As [section Z22](#) to prepared joints. Finish triangular fillets to a flat or slightly convex profile.

820 Ironmongery

1. **Fixing:** In accordance with any third-party certification conditions applicable. Assemble and fix carefully and accurately using fasteners with matching finish supplied by ironmongery manufacturer. Do not damage ironmongery and adjacent surfaces.
2. **Checking/ adjusting/ lubricating:** Carry out at completion and ensure correct functioning.

Ω End of Section



Specification created using NBS Chorus