

Talbot Mill, Manchester

NBS Specification

L10 - Windows/Rooflights/Screens/Louvres

26th September 2023

Rev C04

MattBrookArchitects



REVISION	DATE	NOTES
00	26/09/2023	FIRST ISSUE
01	16/10/2023	FINISHES TO WINDOWS UPDATED TO ANODISED DARK GREY TO COMPLY WITH PLANNING APPROVAL
02	22/05/2024	FINISHES UPDATED TO CONTRACT PREFERENCE - SUBJECT TO PLANNING APPROVAL / CLAUSE 341 OMITTED / CLAUSE 342 ADDED FOR MILLS EXTENSION WINDOWS (now within rainscreen)
C03	09/12/2024	CLAUSE 339 TYPES UPDATED / CLAUSE 340 OMITTED / CLAUSE 342 UPDATED / CLAUSE 343 ADDED FOR NEW-BUILD / CLAUSE 494 REVISED
C04	16/12/2024	CLAUSE 492 UPDATED / CLAUSE 493 OMITTED (NOT RELEVANT) / CLAUSE 494 UPDATED TO APPLY TO MILL 2 ONLY / CLAUSE 496 OMITTED (NOT RELEVANT) / CLAUSE 651 COLOUR UPDATED / CLAUSE 655 ADDED FOR GLAZED LOUVRE AOVs

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STATUS : CONSTRUCTION ISSUE

LEVEL 02 PERFORMANCE SPECIFICATION

The specification and drawings which form this package of information are intended to establish a level 2 performance specification as defined by the Joint Contracts Tribunal (JCT) Guide to the Use of Performance Specifications (2001). As such the drawings and performance specification allow for a range of 'off the shelf' products that satisfy the performance specification. The subcontractor is to construct the work using the selected components and in accordance with the manufacturer's recommendations and details. The subcontractor is therefore responsible for materials and workmanship and for design input in selecting products.

Where this performance specification makes reference to specific manufacturers, suppliers or products, these are included in order to establish the nature and quality of the proposed product, rather than to exclude the possibility of other manufacturer's products being used. Alternatives or equal performance and quality may be proposed for approval by the client and/or architect. It is the subcontractor's responsibility to demonstrate that an alternative product achieves this and approval should be sought prior to assumption of substitution.

To be read with Preliminaries/General conditions.

GENERAL

110 EVIDENCE OF PERFORMANCE

- Certification: Provide independently certified evidence that all incorporated components comply with specified performance requirements.

120 SITE DIMENSIONS

- Procedure: Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- Designated items: All components.

PRODUCTS

336 ALUMINIUM WINDOWS TO MILLS - REFURBISHED FLOORS

- Manufacturer : Aluprof or equivalent
- Product reference : MB Slimline thermally broken, generally side-hung open-out. Refer to TM MBA (31) 200 drawing series for window details.
- Finish as delivered: PPC Dark Grey (RAL 7021 matt) - subject to Planning Condition approval
- Thermal performance (U-value maximum): 1.53 W/m2K.
- Glazing details: ref window schedule.
- Ironmongery/ Accessories: casement stay, locking handle, restrictor, trickle ventilator. Allow for black spacers.
- Fixing: in accordance with manufacturer's recommendations.

339 ALUMINIUM WINDOWS TO MILLS - FIRE RATED TO MILL 01 + 02 (window type 03 and 24)

- Manufacturer : Aluprof or equivalent
- Product reference : MB-78 thermally broken fire rated window (slimline). Refer to TM MBA (31) 200 drawing series for window details.
- Finish as delivered: PPC Dark Grey (RAL 7021 matt) - subject to Planning Condition approval
- Thermal performance (U-value maximum): 1.53 W/m2K.
- Glazing details: ref window schedule - 60 minutes EI rating
- Beading: refer to detail TM MBA (31) 212 and 248.
- Ironmongery/ Accessories: n/a.
- Fixing: in accordance with manufacturer's recommendations.
- Other requirements: n/a.

340 ALUMINIUM WINDOWS TO MILLS - FIRE RATED TO MILL 01 + 02

OMITTED

341 ALUMINIUM WINDOWS TO CYCLE STORE DOOR

- OMITTED - transferred to L20 specification for doors

342 ALUMINIUM WINDOWS TO MILLS - EXTENDED/NEW FLOORS

- Manufacturer : Aluprof or equivalent
- Product reference : MB-79N thermally broken, generally side-hung open-in. Refer to TM MBA (31) 200 drawing series for window details. Incorporating frameless glass glazing panels for guarding to opening lights.
- Finish as delivered: PPC Light Grey (RAL 7042 matt OR Interpon D2525 YW201E Anodic Ice) - subject to Planning Condition approval
- Thermal performance (U-value maximum): 1.53 W/m2K.
- Glazing details: ref window schedule.
- Ironmongery/ Accessories: casement stay, locking handle, restrictor, trickle ventilator. Allow for black spacers.
- Fixing: in accordance with manufacturer's recommendations.

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343 ALUMINIUM WINDOWS TO NEW-BUILD GENERALLY

- Manufacturer : Aluprof or equivalent
- Product reference : MB-79N (bottom-hung / side-hung), MB-59 (sliding doors), SR50N (parallel opening)
- refer to TM MBA (31) 200 drawing series for window details and window schedule..
- Finish as delivered: PPC Interpon D2525 YW201E Anodic Ice - subject to Planning Condition approval
- Thermal performance (U-value maximum): 1.40 W/m2K.
- Glazing details: ref window schedule.
- Accessories: incorporating AOV and actuator to lift lobby windows - refer to schedule
- Ironmongery/ Accessories: casement stay, locking handle, restrictor, trickle ventilator. Allow for black spacers.
- Fixing: in accordance with manufacturer’s recommendations.

491 ROOF VENTILATOR SMOKE SHAFT AOV - TO MILL 2 ADJACENT TO LIFT SHAFT

- Manufacturer: Colt or equivalent
- Product reference: EN-Seefire (ECO) louvred smoke vent.
- Size: refer to Architect’s drawings
- Controls: Connected to BMS - acting as air inlet to proved 0.8sqm free area - 700 x 1300mm (throat width and length)
- Materials: Aluminium insulated louvre blades .
- Accessories : Include for proprietary insulated upstand.

492 ROOF VENTILATORS STAIR CORE AOV - NEW-BUILD x 2

- Manufacturer: Colt or equivalent
- Product reference: AXS 140.
- Size S-version - 1000 x 1250mm (throat width and length) to provide min 1.0sqm free area
- Controls: 24v DC linear actuator connected to BMS.
- Materials: Aluminium.
- Finish: Mill finish aluminium
- Accessories/ Special features: Include for proprietary insulated upstand - no access ladder required

493 ROOF VENTILATORS MILL 01 SMOKE VENT

OMITTED

494 ROOF VENTILATORS - MILL 02 COMBINED AOV and ACCESS HATCH

- Manufacturer: Colt or equivalent
- Product reference: AXS 140.
- Size S-version - 1000 x 1250mm (throat width and length) to provide min 1.0sqm free area
- Controls: 24v DC linear actuator connected to BMS.
- Materials: Aluminium.
- Finish: Mill finish aluminium
- Accessories/ Special features: Include for proprietary insulated upstand - see L30 for ladder requirement

496 ROOF VENTILATORS SMOKE VENT

OMITTED

651 METAL LOUVRES - NEW-BUILD EAST GABLE END

- Manufacturer: Renson or equivalent
- Product reference: Linius 33mm Blade L.033.01.
- Material: aluminium.
- Finish as delivered: PPC RAL 7021 matt.
- Fire resistance rating: Not applicable.
- Number of louvre banks: One.
- Louvre blade pitch and angle: 33mm. As per manufacturer’s drawings
- Accessories/ Other requirements: Access door on north side.

655 GLAZED LOUVRES - NEW-BUILD WEST GABLE END - AIR INLET

- Manufacturer: Colt or equivalent
- Product reference: Coltlite CLT (thermally broken) automatic opening vents - glazed
- Material: aluminium - double-glazed.
- Finish as delivered: PPC Interpon D2525 YW201E Anodic Ice - subject to Planning Condition approval
- Fire resistance rating: Not applicable.
- Thermal performance: U-value of 1.5 w/m2.K
- Number of louvre banks: One - centre-pivoted
- Louvre blade pitch: 270mm high
- Accessories/ Other requirements: Connected to fire alarm system to act as air inlet vents

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EXECUTION

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

730 PRIMING/ SEALING

- Wood surfaces inaccessible after installation: Prime or seal as specified before fixing components

750 BUILDING IN

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

766 LOCATION OF OPENABLE WINDOWS IN NATURALLY VENTILATED BUILDINGS

- Location: Over 10 m from sources of external pollution.

770 DAMP PROOF COURSES IN PREPARED OPENINGS

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

782 FIXING OF ALUMINIUM FRAMES

- Standard: As section Z20.
- Fasteners: Stainless steel wood screws.
- S pacing: When not predrilled 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 600mm centres
- at maximum 600 mm centres.

820 IRONMONGERY

- 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.
- Checking/ Adjusting/ Lubricating: Carry out at Completion and ensure correct functioning.

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