Donald Insall Associates
Chartered Architects and Historic Building Consultants

Rochdale Town Hall HLF Stage 2

Specification - L40
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L40
General glazing REVISED

Clauses

2 To be read with preliminaries/ general conditions.

General requirements

150 Workmanship and positioning generally

1. Glazing generally: In accordance with BS 6262 series.
2. Integrity: Glazing must be wind and watertight under all conditions with full allowance made for deflections and other movements.
3. Dimensional tolerances: Panes/ sheets to be within ± 2 mm of specified dimensions.
4. Materials:
   - 4.1. Compatibility: Glass/ plastics, surround materials, sealers, primers and paints/ clear finishes to be used together to be compatible. Avoid contact between glazing panes/ units and alkaline materials such as cement and lime.
   - 4.2. Protection: Keep materials dry until fixed. Protect insulating glass units and plastics glazing sheets from the sun and other heat sources.

152 Preparation

1. Surrounds, rebates, grooves and beads: Clean and prepare before installing glazing; ensure compliance with any certified installation requirements.

155 Glass generally

1. Standards: To BS 952 and relevant parts of:
   - 1.1. BS EN 572 for basic soda lime silicate glass.
   - 1.2. BS EN 1096 for coated glass.
   - 1.3. BS EN 1748-1 for borosilicate glass.
   - 1.4. BS EN 1748-2 for ceramic glass.
   - 1.5. BS EN 1863 for heat strengthened soda lime silicate glass.
   - 1.6. BS EN 12150 for thermally toughened soda lime silicate safety glass
   - 1.7. BS EN 12337 for chemically strengthened soda lime silicate glass.
   - 1.8. BS EN 13024 for thermally toughened borosilicate safety glass.
   - 1.9. BS EN ISO 12543 for laminated glass and laminated safety glass.
2. Panes/ sheets: Clean and free from obvious scratches, bubbles, cracks, rippling, dimples and other defects.
   - 2.1. Edges: Generally undamaged. Shells and chips not more than 2 mm deep and extending not more than 5 mm across the surface are acceptable if ground out.

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Types of glazing

210 Putty-fronted glazing and vent grilles REVISED

1. Description: Steel and Insulead framed windows
2. Pane material: IGU as clause 655, single glazing as clause 665 and ventilation grilles as clause L10-325
3. Surround: Stainless steel - see clauses L10-305, 310A and 325
   Insulead - see clause 670
   - 3.1. Sealer: Sealant primer - as required and recommended by window manufacturer
4. Type of putty: Metal casement - as recommended by window manufacturer - colour - black
5. Thermal performance (U-value maximum): As glazing insert
6. Glass installation
   - 6.1. Glass: Located centrally in surround using setting and location blocks, and secured with glazing sprigs/ cleats/ clips at 300 mm centres or as recommended by glass manufacturer .
   - 6.2. Finished thickness of back bedding after inserting glazing (minimum): As required and recommended by window manufacturer
   - 6.3. Front putty: Finished to a smooth, neat triangular profile stopping 2 mm short of sight line. Surface lightly brushed to seal putty to glass and left smooth with no brush marks.
7. Sealing putty: As required and recommended by window manufacturer
8. Opening lights: Keep in closed position until putty has set sufficiently to prevent displacement of glazing when opened.

610A Window film

1. Glazing to basement windows
2. Type: Privacy
3. Manufacturer: Glass Films Europe
   - 3.1. Web: www.glassfilms.eu
   - 3.2. Email: sales@glassfilms.eu
   - 3.3. Tel: +44 (0)800 970 6366 .
4. Product reference: SimGlas® Frosted Window Film
5. Design reference: SX-3140 Dusted Crystal
6. Application: Carried out by a firm approved by the film manufacturer in accordance with manufacturer's recommendations.
   - 6.1. Evidence of applicator's competence and experience: Submit on request.
   - 6.2. Sample area: Complete as part of the finished work, in an approved location and obtain approval of appearance before proceeding.
   - 6.3. Ambient air temperature at time of application: Above 5°C.
7. Installed film: Fully adhered to the glass with no peeling, and free from bubbles, wrinkles, cracks or tears.
8. Further contact with applied films: Avoid until bonding adhesive has cured.
9. Cleaning and maintenance instructions: Submit copies.

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655 Insulated glass units (IGUs) - Slimlite type REVISED

1. Description: Slimlite glazing to Touchstone Steelyte Slim opening casements and fixed Touchstone Insulead framing - includes provision for 30 minute fire rated glass in selected locations - refer to window schedule
2. Manufacturer: Touchstone Glazing Solutions Ltd
    2.1. Product reference: Slimlite glazing
3. Standard: BS EN 1279.
4. Thermal performance (centre pane): Manufacturer's standard
5. Construction: To match trial window:
    5.1. Inner pane: 4mm Pilkington K A Toughened glass
    5.2. Cavity: 8mm Krypton filled - Manufacturer's standard
    5.3. Outer pane: 4mm Pilkington K A Toughened glass
    5.4. Spacer: Warm edge spacer bar - colour black - Manufacturer's standard
6. Unit thickness: 16mm flush edged sealed unit to match trial window
7. Other requirements: Specification to be reviewed by CA prior to ordering of windows Selected windows to have 30 minutes fire integrity - allow for inner pane to be Pilkington Pyroclear 30 or similar approved and as recommended by window manufacturer and installer and approved by CA - see schedule for locations

665 Glass for single glazing REVISED

1. Description: Single glazing to Touchstone Steelyte Slim opening casements and fixed Touchstone Insulead framing - includes provision for 30 minute fire rated glass in selected locations - refer to window schedule
2. Manufacturer: Pilkington
    2.1. To match trial window
    2.2. Product reference: 4mm Pilkington K A Toughened glass
3. Standard: BS EN 1279.
4. Thermal performance (centre pane): Manufacturer's standard
5. Surround/ bead: Clause L40-210. As recommended by window manufacturer and installer and approved by CA.
6. Glazing installation:
    6.1. Glass: Located centrally in surround using setting and location blocks.
    6.2. Gaskets and beads: Installed as recommended by frame manufacturer.
    6.3. Gasket fit at corners: Tight, without gaps.
7. Other requirements: Specification to be reviewed by CA prior to ordering of windows Selected windows to have 30 minutes fire integrity - allow for inner pane to be Pilkington Pyroclear 30 or similar approved and as recommended by window manufacturer and installer and approved by CA - see schedule for locations

670 Glass for setting to stone REVISED

1. Fixed glazing set within stone surround
2. Removing existing glass panels
    - Carefully cut out putty/mortar around glazing and clean glazing grooves of all mortar. Note this may be very hard material. Do not damage stone arrises.

Use tungsten chisels for carrying out this work, but, where the glass and/or stonework is of great value, use diamond grinders

- Remove glass and discard

3. Glazing system:
   - 3.1. Manufacturer: Touchstone Glazing Solutions Ltd
   - 3.2. Product: Insulead
   - 3.3. Glazing:
     - 3.3.1. Double glazing as clause 655 - Window Type 1c
     - 3.3.2. Single glazing a clause 665 - Window Type 3a and 3b
4. Pointing
   - External: Burnt sand mastic as clause Z21-105
   - Internal: Polymer sealant as clause L10-810.
5. Glazing installation in masonry
   - Each replacement pane is to be templated to specific location before manufacture
   - Carefully position new glass pane in location
   - Introduce a leadwork sill tray at the foot of each light, if necessary to allow exit of water and entry of air. Do not seal at bases.
   - Mask borders of glass with 50mm paper masking tape, and point up. Use hydraulic lime, rather than lime putty, in the pointing mix. Remove tape after pointing is complete.
6. Other Requirements
   - Allow for forming framed service apertures within fixed lights in selected locations - see schedule.

Deleted clauses

~~372A Bead-fixed insulating glass units~~ DELETED

~~380A Bead-fixed single glazing~~ DELETED

Ω End of Section

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