Types of curtain walling

110 Stick curtain walling systems

1. Specification type: **Descriptive Design (D): Design intent by the Architect**
2. Description: Stick system pressure equalised mullion drained curtain wall system.
3. Curtain walling system
   - 3.1. Manufacturer: Schueco UK Ltd or equal and approved
     - 3.1.1. Contact details
       - 3.1.1.1. Address: Whitehall Avenue
         Kingston
         Milton Keynes
         Buckinghamshire
         MK10 0AL
       - 3.1.1.2. Telephone: +44 (0)1908 282111
       - 3.1.1.3. Web: https://www.schueco.com/uk/
       - 3.1.1.4. Email: mkinfobox@schueco.com
     - 3.1.2. Product reference: Stick curtain walling façade system - FWS 60or equal and approved
   - 3.2. Width: 60 mm.
   - 3.3. Framing
     - 3.3.1. Frame members: Aluminium curtain wall frame sections as 710.
     - 3.3.2. Finish: PPC as Z31.
       - PPC Interpon D2525 Qualicoat Class 2, Canon 2525 Matt (YW279D) for curtain walling within rainscreen cladding.
       - PPC Interpon D2525 Qualicoat Class 2, Anodic Ice - Metallic Matt (YW201E) for ground to first level curtain walling and level 5-6 glass box.
     - 3.3.3. Width: 60mm
     - 3.3.4. Depth: As determined by specialist subcontractor to meet performance requirements. For back box size design intent refer to 31 series curtain walling scoping elevations.
     - 3.3.5. External cover cap: Square edge cap as manufacturer standard. Horizontal cap - 25mm projection / vertical cap - 50mm projection.
     - 3.3.6. Label: Schueco ‘IoF’ ID tag with QR code.
   - 3.4. Spandrel panels:
     - Glazed spandrel panels as G40 and 31 series curtain wall scoping drawings to the front.
     - Spandrel panels fully filled with non-combustible mineral wool insulation as P10/120, for scoping refer to 07 series fire elevations, 21 & 27 series details.
     - At compartment walls and floors, spandrel panel to include fire board and firestopping, for scoping refer to 07 series fire elevations.
     - PPC aluminum as Z31 to back faces, colour to match curtain walling
   - 3.5. Incorporated components:
     - Spandrel panels and glazing interlayers as G40/655A to G40/655F
     - Glazed in metal fins as L10/650.
     - Glazed in metal weather louvre system as L10/651.
     - Integrated doors as L20.

- Interface sealing membrane as P10/300.
- Glazed in PPC aluminium extrusions to curtain walling sills, soffits and jambs as L10/652 and the Architects drawings.
- Steel reinforcements to mullions where required.
- Acoustic inserts and capping within vertical curtain wall mullions to avoid acoustic flanking through curtain wall mullions as H11/780. For acoustic inserts with cappings refer to 31 series curtain wall scoping elevations.

3.6. System accessories: As recommended by manufacturer.

3.7. Installation: All Schueco UK Limited products are to be installed in complete accordance with the information published by Schueco and exclusively by Schueco UK Limited authorised fabricators.

3.8. Load: 1080 kg.

3.9. Performance requirements

3.9.1. Refer to Buro Happold Facade Engineer's Specification

3.9.2. Embodied carbon: Maximum 4kgCO2e/kg aluminium A1-A3

3.10. Glazing details:

Refer to Buro Happold Facade Engineer's 1350B-BHE-XX-XX-SP-FC-000004 – Stage 4 Outline Façade Performance Specification & 1350B-BHE-XX-XX-RP-FC-000005 – Façade Engineering Report.

Final glazing type / thickness / specification to be proposed by specialist subcontractor for client / facade subcontractor verification.

Refer to L40.

4. Other requirements: Curtain walling steel reinforcements as determined by specialist subcontractor to meet curtain span requirements.

150 Materials specification

1. Minimum BRE 'Green Guide to Specification' online rating: Submit proposals to meet BREEAM assessment requirements.
2. Specification of glazing materials to be in accordance with guidance in CIRIA document ‘Guidance on glazing at height’.

General requirements/ preparatory work

210 Design

1. Curtain walling and associated features: Complete the detailed design. Submit before commencement of fabrication.
2. Related works: Coordinate in the detailed design.

220 Specification

1. Compliance standards: Refer to Buro Happold Facade Engineer's Specification

230 Information to be provided during detailed design stage

1. Submit the following curtain walling particulars

1.1. A schedule of detailed drawings and dates for submission for comment.