

## L10

# Windows/ rooflights/ screens/ louvres

## General

### 110 Evidence of performance

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

### 120 Site dimensions

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1. **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
2. **Designated items:**

### 140 Control samples

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1. **Procedure**
  - 1.1. Finalise component details.
  - 1.2. Fabricate one of each of the following designated items as part of the quantity required for the project.
  - 1.3. Obtain approval of appearance and quality before proceeding with manufacturer of the remaining quantity.
2. **Designated items:**

## Products

### 205 Window materials specification

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1. **Minimum BRE 'Green Guide to Specification Online' rating:** Minimum BRE 'Green Guide to Specification Online' rating  
The AA@720 corresponds to the BRE Global Green Guide online specification for windows and achieves a summary rating of B for non domestic schemes ([www.thegreenguide.org.uk](http://www.thegreenguide.org.uk) Element number 831500023).

### 330A Aluminium Windows

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1. **FIXED WINDOW** in accordance with architects drawings.
  - Side hung open in and fixed window
  - Manufacturer: Kawneer UK Ltd. Astmoor Road, Runcorn, Cheshire WA7 1QQ Tel. 01928 502 500 Fax 01928 502 509
  - Contact: David Scott, Tel No: 07484 097215, Email: David.scott@arconic.com
  - Product Reference: AA@ 720 HI Reflex side hung open in and fixed light window using profiles as listed:
    - Outer frame (fixed): Kawneer profile to suit project requirements, example 3001027
    - Vent sash (open in): Kawneer profile to suit project requirements, example 3001073
    - Horizontal muntin: Kawneer profile to suit project requirements, example 3001044
    - Vertical muntin: Kawneer profile to suit project requirements, example 3001053
    - Sub cill: Kawneer 3002068
    - Cill: Either Kawneer 868024/0265 extruded cills complete with end caps or bespoke pressed metal to suit project detailing
    - Beading: Internal box beading to suit infill thickness, example Kawneer 694317
    - Finish: PPC powder coated as per section Z31 - Powder coatings. Finish to be Qualicoat Class 1 quality
    - Colour/Texture: RAL TBC, Matt (30% gloss, +/-5 units). Refer to window schedule
    - Minimum film thickness: 60 microns (minimum average film thickness) 48 microns (minimum local film thickness).

- Thermal performance (U-value maximum): maximum 1.4 W/m<sup>2</sup>K. (area weighted)
  - Glazing: see section L40 - General Glazing, but typically
    - Double glazed (dgu) - Architect to specify fully
    - Inner pane: laminated toughened mid iron TBC - Architect to specify fully
    - Outer pane: laminated mid iron solar control - Architect to specify fully
    - Maximum centre pane u-value: 1.0 W/m<sup>2</sup>K
    - Maximum psi value: 0.05 W/mK- Specification: As recommended by manufacturer
  - Ironmongery/ Accessories:
    - Kawneer Axxent PLUS-D Concealed security gearing as per PAS24 Scope of certification document
    - Kawneer Axxent PLUS-D concealed hinges
    - Various accessories such as keeps, locking points, run up blocks etc as per Kawneer fabrication manuals and PAS24 scope of certification document
    - Kawneer Si-Line lockable handle in silver finish
  - Fixing:
    - Concealed – Kawneer 21903300 fixing lugs, bespoke brackets or direct fixed at centres as dictated in system manual or by structural requirements, whichever is the most onerous.
    - Other requirement: Use fabricator approved by the manufacturer.
- All ground floor and easily accessible glazing must incorporate glass successfully tested to BS EN 356:2000 *Glass in building. Security glazing –resistance to manual attack* to category P1A.  
Glazing to SbD min BS EN 356 P1A

## 460A Rooflights

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1. **Manufacturer:** Whitesales Rooflights  
**Web:** www.whitesales.co.uk
  - Email: sales@whitesales.co.uk
  - Tel: +44 (0)1483 917580
  - Fax: +44 (0)1483 271771
- 1.1. **Product reference:** Em-Glaze™
2. **Type:** Rectangular 3000 x 1000mm external Flat glazed
3. **Frame:** None
  - 3.1. **Finish:** Solar control
  - 3.2. **Colour:** RAL 7016
4. **Kerb:** Timber site formed upstand 2100 x 1100 x 150 as external measurement at the top of the upstand. by main contractor
5. **Thermal performance (U-value maximum):** Manufacturer's standard 1.23 W/m<sup>2</sup>K
6. **Fire performance (minimum):** Broof(t4) when classified to BS EN 13501-5
7. **Glazing details:** Double glazed 6mm toughened outer 6.4 mm laminated inner
8. **Other requirements:** All ground floor and easily accessible glazing must incorporate glass successfully tested to BS EN 356:2000 *Glass in building. Security glazing –resistance to manual attack* to category P1A.  
Glazing to SbD min BS EN 356 P1A
9. **Fixing:** Manufacturer's installation specification

## 560 Glazed screen system

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1. **Location:** To corridor areas
  2. **Manufacturer:** To match
    - 2.1. **Product reference:**
  3. **Screen height:**
  4. **Fire resistance rating of complete system:**
- Ellis Williams Architects  
2020-07-15

5. Sound insulation rating:
6. Materials
  - 6.1. Frames:
    - 6.1.1. Finish:
  - 6.2. Panels:
    - 6.2.1. Finish:
7. Thermal performance:
8. Glazing details:
9. Incorporated features:
10. Accessories/ Other requirements:
11. Fixing:

## **560A Glazed screen system**

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1. Manufacturer: Promat UK
  - 1.1. Web: [www.promat.co.uk](http://www.promat.co.uk)
  - 1.2. Email: [behindthewall@etexgroup.com](mailto:behindthewall@etexgroup.com)
2. Product reference: PROMAGLAS® F1
3. Size: As drawing  
screens to match door / screen assemblies  
full height to corridors with opaque panels for service penetration
4. Fire resistance (integrity and insulation): As schedule

## **650 Metal louvres**

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1. Manufacturer: Gilberts  
Clifton Road, Blackpool FY4 4QT Telephone: 01253 766911 Fax: 01253 767941  
Email: [louvres@gilbertsblackpool.com](mailto:louvres@gilbertsblackpool.com) Web: [www.gilbertsblackpool.com](http://www.gilbertsblackpool.com)
  - 1.1. Product reference: WG75 series to provide 50% free area
2. Material: Aluminium
  - 2.1. Finish as delivered: Powder coated
3. Fire resistance rating: Not applicable
4. Number of louvre banks: Mechanical Engineer to confirm weather resistance required
5. Louvre blade pitch and angle: Pitch: 75 mm
6. Blanking panels: As Mechanical Engineer plant layout requirements
7. Accessories/ Other requirements: Single and double Hinged Continuous Appearance Doors
8. Fixing: Steelwork fixed to RC slab

## **Execution**

### **710 Protection of components**

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

## 740 Corrosion protection

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1. **Surfaces to be protected:** Manufacturer to advise on protection to stainless steel cills, panels and surrounds
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

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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

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1. **Standard:** To BS 8213-4.

## 765 Window installation generally

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

## 770 Damp proof courses in prepared openings

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

## 782 Fixing of aluminium frames

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1. **Standard:** As section Z20.
2. **Fasteners:**
  - 2.1. **Spacing:** 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 600 mm centres.

## 810 Sealant joints

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

## 820 Ironmongery

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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

