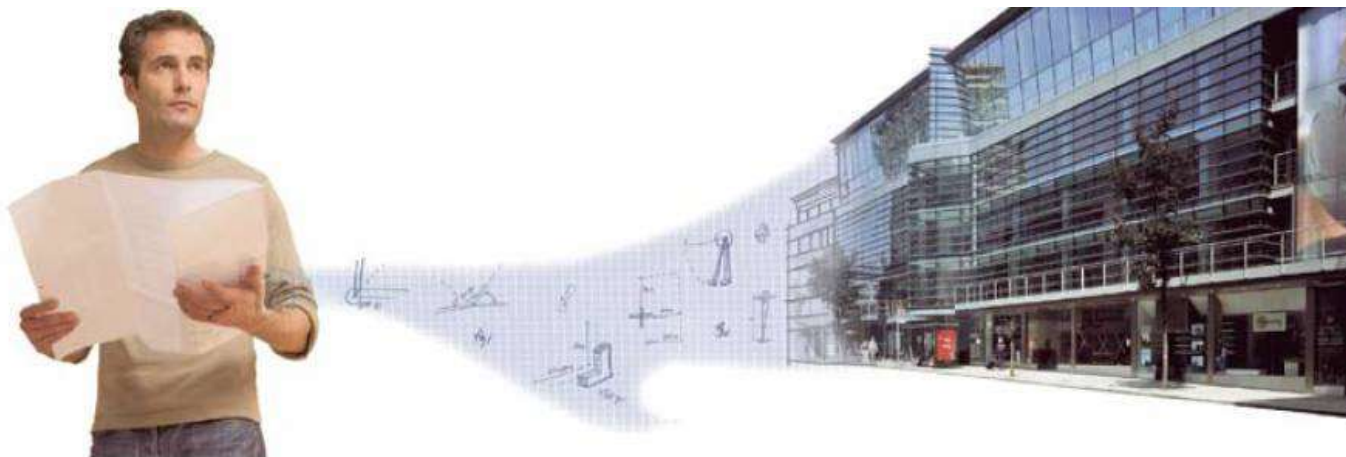


L10, L20 Window & Door Specification



Architect:	Rider Levett Bucknall
Office:	8 Princes Parade, Liverpool, L3 1DL
Attention of:	Drew Sergison
Project:	GMP Whitefield Police Station
Project Ref:	
Revision:	A
Prepared By:	Andy Eyres
Date:	13.02.2026

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L10 Windows/ Rooflights/ Screens/ Louvres

Aluminium Windows:

- Manufacturer:
Reynaers Aluminium UK, 111 Hollymoor Way, Birmingham, B31 5HE.
T: 0121 421 1999
Email: reynaersltd@reynaers.com
Web: www.reynaers.co.uk
Consult Project Manager: Andy Eyres (andy.eyres@reynaers.com)
Mob: 07812 902 717.
- Product Reference:
 - Reynaers CS77 Open Out Casement windows
 - High Level – to be operated via. Teleflex Gearing (by Others)
- Performance: System supplier to provide Architect evidence of conformity.
 - Air Permeability: Class 4 (EN1026 & 12207)
 - Wind Resistance: Class 5 (EN12211 & 12210)
 - Watertightness: E1200 (EN1027 & 12208)
 - Mechanical Durability: Class 3 (EN12400)
 - Resistance to racking: Class 4 (EN13115)
 - Resistance to static torsion: Class 4 (EN13115)
- Materials:
 - Reynaers aluminium profiles extruded from EN AW-6060 (ALMgSi0.5 F22) aluminium alloy to comply with EN 573-P3 & 4. Designed and manufactured to comply with BS 4873.
 - Insulated with polyamide strips, 25% glass fibre reinforced to BUTGB approval.
- Finish as delivered:
 - Polyester powder coated by RAD to APA Qualicoat standard or BS EN 12206-1 2004. Class 2 Powder
 - **Area 3** Environment Degreasing & etching >1gm². Conversion layer to ensure adhesion.
 - Colour/ texture: TBC by architect/Client
 - Minimum film thickness: 60µm.
- Glazing:
 - Composition of units to be confirmed, but units to all ground floor windows, and those accessible via flat roof to be laminated low-e clear glass inner pane (To BS EN356: 2000 P1A). Generally, all units to have warm edged Argon filled cavity, and toughened clear glass externally. All glazing to provide a low emissivity sealed unit, giving a Ug value of 1.2W/m²K (or less), combining with the frames to give an area weighted average u-value of 1.6W/m²K (or less).
 - G Value: TBC by Architect & M&E Consultant.
 - LT Value: TBC by Architect & M&E Consultant.
 - All glazing should meet requirements as set out in the acoustician's report and planning conditions.
 - Glazing/ Infill panels shall be accommodated by the framing, arranged, and located as indicated on the design drawings. Glazing panels shall be of a drained and ventilated dry glazing system compliant with BS EN 1279.
 - *Reynaers Approved Partner to verify that any proposed glass types be suitable to take all applied loads including wind and guarding loads. They should also evaluate the need for a "Class A" no break, no penetration glass in full height guarded situations.
- Trickle Vents:
 - Where these are shown on Architects drawings the addition of an "add on/ extended head" to accommodate a slot in trickle vent to meet M&E and any acoustic requirements.
- Beading:
 - Reynaers internal aluminium bead to suit glazing thickness.
- Ironmongery/ Accessories:
 - All ancillary hardware items such as hinges and restrictors to be supplied by Reynaers Aluminium.
- Other Requirements:

Information within this document is supplied by Reynaers Limited on an informative basis only. Your attention is drawn to the Important information section at the end of this document. Please check to ensure compliance with all building regulations and standards before issue.

- To be manufactured in complete accordance with Reynaers technical manuals, exclusively by Reynaers Fabricators/ Installers.
 - **Contact Andy Eyres: 07812 902 717 for a list of Approved Reynaers Fabricator/ Installers.**
 - Insurance backed system guarantee to be provided by the system supplier, consult with Reynaers Ltd for details.
 - Manufactured under a quality assurance scheme to ISO 9001: 2000.
 - Profiles sourced via aluminium systems supplier who operate to ISO14001 & ISO50001 standards.
 - Environmental Product Declaration in accordance with ISO14025 and EN15804 will be acceptable only. Consult with Reynaers for details.
 - Product must be to a certified level under **C2C**, and to ISO 14024 Type 1: and from a system supplier utilising **Science Based Targets**.
- Fixing:
 - To be manufactured in complete accordance with Reynaers technical manuals, exclusively by Reynaers Partners.
 - The sub structure and the connection should be able to take the weight of the elements. In case of doubt, please contact a Structural Engineer.
 - The fixing to the structural work is done either directly through the profiles (not the thermal break) by means of for instance, screws and plugs, or by means of fixing lugs.
 - The fixings may not be applied less than 40mm of the wall of the structural work.
 - The anchoring may in no way influence the bearing power of the adjacent building parts.
 - All anchoring, as far as they are not made of aluminium or stainless steel, should be adequately corrosion protected and may not attack the aluminium themselves.
 - When fitting the windows sufficient fixings are required. At least two fixings should be applied on all sides, the maximum distance to the corner is at least 200mm with distance between fixings 700mm maximum.
 - Where transom/mullions and outer frame profiles meet, the fixing must be applied maximum 200mm both sides of the transom/ mullion.
 - Position the fixings at the height of each hinge and locking point.
 - The anchoring should be applied in such a way that possible expansion/ shrinkage of the window is not obstructed.

L20 Doors/ Shutters/ Hatches

480 ALUMINIUM DOORS

- Manufacturer:
Reynaers Aluminium UK, 111 Hollymoor Way, Birmingham, B31 5HE.
T: 0121 421 1999
Email: reynaersltd@reynaers.com
Web: www.reynaers.co.uk
Consult Project Manager: Andy Eyres (andy.eyres@reynaers.com) 07812 902 717.
- Product Reference: Reynaers Vision 7 AFT Commercial Door.
- Door leaf, frames & architraves: Reynaers aluminium profiles extruded from EN AW-6060 (ALMgSi0.5 F22) aluminium alloy to comply with EN 573-P3 & 4. Designed and manufactured to comply with BS 4873. Insulated with polyamide strips, 25% glass fibre reinforced to BUL approval.
- Finish as delivered:
 - Polyester powder coated by RAD to APA Qualicoat standard or BS EN 12206-1 2004. Class 2 Powder
 - **Area 3** Environment Degreasing & etching >1gm². Conversion layer to ensure adhesion.
 - Colour/ texture: TBC by architect/Client
 - Minimum film thickness: 60µm.
- Performance
 - Severe Duty performance 1,000,000 cycles Class 8 performance
 - Air Permeability: Class 2.
 - Wind Resistance: Class C2.
 - Water Tightness: Class 2A
 - Operating Forces: Class 1
- Infill Panels:
 - Part glazed/ panelled doors, as indicated on the architect's drawings, to use aluminium faced insulated panels constructed for a 28mm glazing rebate.
 - Double sided fully panelled doors to utilise insulated composite panel with 3mm inner and outer aluminium sheet bonded to door leaf.
 - Fabricator to discuss panel options with contractor to satisfy Architect's design intent.
- Manifestation: If required, to be in line with Architects designs.
- Beading: Reynaers beading.
- Ironmongery:
 - Generally, all handles, locks and hinges to be supplied by Reynaers Aluminium.
 - Mechanical locking Controlled access door – restricted access from outside, with free exit/escape from Inside – Function E operation.
 - Key operation externally
 - Emergency exit requirements to comply with BS EN 179
- Perimeter seals: Refer to Reynaers catalogues for details.
- Accreditation:
 - The aluminium systems company is to have an ISO 9001 Quality Management Standard, ISO 14001 Environmental Management Systems Standard, and who operate to ISO50001 standards.
 - Environmental Product Declaration in accordance with ISO14025 and EN15804 will be acceptable only. Consult with Reynaers for details.
 - Product must be to a certified level under **C2C**, and to ISO 14024 Type 1: and from a system supplier utilising
- Other requirements:
 - Reynaers AFT thermally broken pivot hinge.
 - concealed transom closer to suit door usage.
 - Insurance backed system guarantee to be provided by the system supplier, consult with Reynaers Ltd for details.
 - A list of specific and approved fabrication partners for this installation can be made available to the main

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contractor upon request. **Please contact Andy Eyres: 07812 902 717 or andy.eyres@reynaers.com for an official Reynaers list.**

- Fixing:
 - To be manufactured, installed, and glazed in strict accordance with Reynaers Aluminium instructions and guidelines as set down in the appropriate technical literature.

Important information

The information contained within this document is for illustrative purposes only. It is important that any architect, customer, surveyor, or enquiring party hereinafter referred to as the Specifier, must carry out their own calculations and designs. It is the Specifier's responsibility to ensure that they satisfy themselves, that the Reynaers products and any additional products supplied by other suppliers, referred to in this document are suitable for their intended use. By that, we mean by way of example but not limited to, that they are suitable for the project including the construction of the building and the environment within which they will be situated. In accordance with the standard terms and conditions of Reynaers, any contract will be for the supply of materials and no design responsibility will be accepted by Reynaers. To the extent permissible by law, Reynaers accepts no liability to the Specifier and or any third party regarding any claim in contract or tort, nor shall they be liable for any increased costs, delay and expense claims, or any losses howsoever arising be they direct, indirect, or consequential arising from any design issue, unless expressly agreed in writing by Reynaers. To this extent the Specifier will indemnify Reynaers against all actions, claims and demands of any nature arising from design issues.

Specification Footnotes

- Specification notes provided in this specification document refer to information and discussions at the time of writing and may not be applicable if any information is subject to change. Please advise of any omissions, additions, or alterations as this may significantly affect the products, sections and fittings described.
- Information regarding products not manufactured or supplied by Reynaers Ltd is given on an illustration basis only, and specifiers are recommended to contact specialist suppliers, consultants, or contractors to ensure that such products are suitable for their intended use, the building in which they will be installed and the environment and weather conditions they will be subjected to.
- A risk assessment in accordance with BS 8213 Part 1:2004 has not been included as final details including the position, access and occupancy are not available at the time of writing. We recommend that a risk assessment be carried out, considering of the relative priority needs established in each situation.
- Specifiers are advised to contact a glass supplier and check that the glass is not at risk of thermal over stressing. In the avoidance of doubt, specifically with high performance glass, it is advisable to perform a thermal safety calculation.
- Wind load calculations relating to framing and profile specifications have been carried out on a preliminary basis only, using information available at the time, and a basic form of calculation to BS EN 1991-1-7:2006+A1:2014. The fabricator or installation contractor should provide detailed wind load calculations based on full and final information at the point of order, based on BS EN 1991-1-7:2006+A1:2014. Sections selected can be significantly affected if the input data is not exact and correct.
- Due to possible changes of design and usage after the compilation of this specification we recommend that the window fabricator or installer calculate framing requirements to comply with Approved Document K3 and BS6180 regarding loading and barriers.
- For compliance with Approved Document L (2013), the thermal transmission coefficients were calculated for insertion elements and windows (U_w) according to EN ISO 10077-1: 2006 or DIN V 4108-4: 06.2007 and for curtain walls (U_{cw}) in compliance with EN 13947: 2006. The U value of the entire construction may vary by changing material and geometry within frame, glass, and spacer system. In these cases, it must be recalculated.
- Any Reynaers fabricators or installation contractors listed in these pages are not employed or approved by us. The Specifier must satisfy themselves as to their suitability. Reynaers cannot accept any responsibility for their workmanship or the use of unauthorised products with our systems or installation. The terms of the Reynaers guarantee on the quality of our manufacture of remains unaffected.
- The aluminium construction must be fabricated using appropriate skills, to an industry-accepted level of craftsmanship and according to the Reynaers Aluminium catalogues and the Reynaers Aluminium processing and maintenance regulations.