TBA

ALUMINUM WINDOWS LIMITED

BUILDING PRODUCT INFORMATION REQUIREMENTS (BPIR)

Class 2 Custom Aluminium Windows & External Doors

New Zealand Technical Documentation • Version 1.0

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DOCUMENT APPLICATION

This document provides Building Product Information Requirements (BPIR) information for TBA Aluminium's Class 2 customised external aluminium window and door product line under the Building (Building Product Information Requirements) Regulations 2022.

Contents

1. Product & Responsible Person Identification

Item	Information
Product	Customised external aluminium windows and doors supplied under the TBA Aluminium product line
Product webpage / online information	https://www.tbawindows.com/
Product line	TBA Aluminium Residential & Commercial Window and Door Systems
Overseas manufacturer	Shenzhen Chuangyue Construction Co., Ltd.
Manufacturer address	Room 906D, Building 4, Meinian International Plaza, Xinggong Road, Taohuayuan Community, Zhaoshang Subdistrict, Nanshan District, Shenzhen, Guangdong, China
Manufacturer telephone	+86 755 8662 1901
Manufacturer email	nan@cyconstruction.cn
New Zealand importer / responsible supplier	TBA ALUMINUM WINDOWS LIMITED
NZBN	9429052164804
Address for service	37 Porana Road, Wairau Valley, Auckland 0627, New Zealand
Public email	info@tbawindows.co.nz
Product identifier	Product line: TBA Aluminium Residential & Commercial Window and Door Systems. Each customised unit is traceable by the applicable project/order reference and approved joinery schedule or shop-drawing mark/revision.
Building Act section 26 warning / ban status	This product line is not subject to a warning or ban under section 26 of the Building Act 2004.

2. Product Description and Intended Use

Custom-made external aluminium window and door assemblies configured to suit project-specific openings and requirements. The product line is intended for use in New Zealand residential and commercial buildings where the selected product type, configuration, glazing, hardware, finish and installation details are suitable for the applicable project design and Building Code requirements.

3. Product Line and Customisation Parameters

TBA Aluminium's customised external aluminium window and door product line includes the following product types, as applicable to the project:

- Fixed windows
- Awning windows
- Casement windows
- Sliding windows
- Sliding doors
- Hinged doors

Products are custom-manufactured to suit project-specific design and performance requirements. The following parameters may be selected or configured as applicable to the project:

- Opening type and handing
- Overall width and height
- Mullion/transom arrangement
- Frame/reveal configuration
- Glazing make-up and safety requirements
- Hardware and restrictors
- Surface finish and colour
- Project wind/exposure requirements
- Thermal-break and non-thermal-break frame configurations, where applicable

4. Scope and Limitations

- TBA aluminium window and door systems are intended for use within configurations supported by applicable test evidence, technical assessment or project-specific engineering.
- Product suitability is determined by the relevant system configuration, opening type, unit dimensions, member spans, glazing specification, hardware, design wind pressure, fixing arrangement and installation conditions.
- Performance evidence includes NZS 4211:2008 testing of applicable TBA window and door configurations and AS/NZS 4284:2008 façade performance testing for the applicable tested façade configuration. Evidence is applied only where the proposed product configuration and project requirements correspond with its stated scope.
- Where a proposed unit differs materially from an applicable tested or assessed configuration, including larger dimensions or higher design pressures, suitability shall be established by appropriate technical assessment or project-specific engineering.
- Interface detailing between the joinery and the building envelope, including structural support, sill support, flashings, air seals and water-management provisions, shall be coordinated with the project-specific building and cladding design.
- Fire-rated, smoke-control, barrier or other specialist applications are outside scope unless specifically documented.

5. Building Code Contribution

NZBC area	How the TBA product line may contribute	Technical basis / project control
B1 Structure — B1.3.1, B1.3.2, B1.3.3, B1.3.4	TBA aluminium window and door assemblies contribute to structural performance by resisting applicable wind and serviceability actions when the selected configuration is within the verified tested, assessed or project-engineered scope.	Applicable NZS 4211:2008 performance testing and AS/NZS 4284:2008 façade performance testing; project-specific engineering and fixing design where required.
B2 Durability — B2.3.1(b), B2.3.2	Aluminium framing, surface finishes, glazing, seals, hardware and fixings contribute to durability when specified for the project exposure conditions and maintained in accordance with TBA requirements.	Material, finish, glazing, hardware and fixing specifications appropriate to the project exposure conditions, together with the stated maintenance requirements.
C4 Movement to a Place of Safety — C4.3, C4.5 (where applicable)	Where a TBA door forms part of an escape route or means of egress, the selected door configuration, opening direction, clear opening and operating hardware are coordinated with the project fire and egress design.	Project-specific fire/egress design, consent documentation, joinery schedule and hardware specification. Fire-rated and smoke-control assemblies are outside the stated product-line scope unless separately documented.
D1 Access Routes — D1.3.1(b) (where applicable)	Where a TBA door is located on an accessible or required access route, opening width, threshold arrangement, operating forces and hardware are coordinated with the project access design.	Project-specific accessibility design, consent documentation, door schedule and installation details.
E2 External Moisture — E2.3.2, E2.3.7	Joinery drainage paths, seals and correctly integrated sill, flashing, air-seal and cladding-interface details contribute to management of external moisture.	Applicable NZS 4211:2008 and AS/NZS 4284:2008 water-performance evidence, together with project-specific sill, flashing, air-seal, drainage and cladding-interface details.
E3 Internal Moisture — E3.3.1 (where applicable)	Frame and glazing selection may contribute to management of interior surface temperatures and condensation risk as part of the overall building design. Ventilation, internal moisture loads and the building condensation-control strategy remain project-specific design matters.	Project-specific thermal/condensation design, IGU and glazing specification, and building ventilation/internal-moisture design.

NZBC area	How the TBA product line may contribute	Technical basis / project control
F2 Hazardous Building Materials — F2.3.1, F2.3.2, F2.3.3	Safety glazing is specified where human-impact safety requirements apply. Glass selection, identification and installation are coordinated with the project glazing schedule and applicable glazing requirements.	Applicable safety-glazing certification and NZS 4223 project glazing requirements, together with the project glazing schedule and glass identification.
F4 Safety from Falling — F4.3.1, F4.3.4 (where applicable)	Where windows, doors or glazing form part of a fall-protection condition, opening size, restrictors, glazing and any barrier-related requirements are addressed by the project design.	Project-specific design and consent documentation, including applicable glazing, opening-control and restrictor requirements.
F9 Restricting Access to Residential Pools — F9.3.4 (where applicable)	Where a window or door forms part of a residential pool barrier, opening limitation, latching/closing hardware and the relationship to the barrier are determined by the project pool-safety design.	Project-specific pool-barrier design and consent documentation, including specified restrictors, latches, closers or other hardware where required.
G4 Ventilation — G4.3.1, G4.3.3 (where applicable)	Opening windows and doors may contribute to natural ventilation where their type, opening area and operating arrangement are included in the project ventilation design.	Project-specific ventilation design, window/door schedule, opening dimensions and any applicable restrictor requirements.
G7 Natural Light — G7.3.1, G7.3.2 (where applicable)	Glazed windows and doors may contribute to natural-light provision through the specified glazed area and glazing optical properties.	Project-specific natural-light design, window/door schedule, glazing make-up and visible-light-transmittance information where required.
H1 Energy Efficiency — H1.3.1, H1.3.2E, H1.3.3 (as applicable)	Frame configuration and IGU/glazing selection may contribute to the thermal performance of the building envelope when specified as part of the project H1 compliance pathway.	Applicable frame and glazing thermal data, IGU specification and project-specific H1 calculations for the selected configuration.

6. Design Requirements

TBA Aluminium windows and doors are custom-manufactured for project-specific openings. Prior to manufacture, the designer/specifier shall confirm the selected product configuration against the applicable TBA system and the consented project requirements.

- **Product configuration and dimensions.** Confirm the opening type, handing, overall unit width and height, opening-panel sizes, fixed/opening arrangement, mullion and transom layout, frame/reveal configuration and member spans.
- Wind and structural design. Determine the project wind zone and/or project-specific design pressures and select a TBA system suitable for the applicable design actions, unit dimensions, member spans, glazing, hardware, fixings and supporting construction. Where a proposed size, configuration or design pressure extends beyond the applicable tested or assessed configuration, suitability shall be established by appropriate technical assessment or project-specific engineering.
- Glazing. Specify glass type, thickness and make-up to suit structural loading, safety, thermal, acoustic and solar-control requirements. Safety glazing shall be selected for the relevant location and use, and insulating glass units shall correspond with the project glazing schedule and applicable requirements.
- Thermal performance. Select thermal-break or non-thermal-break framing and glazing to suit the project H1 compliance pathway. Project thermal requirements shall be confirmed using the applicable frame configuration, glazing performance data and project-specific thermal calculations where required.
- **Hardware and safety fittings.** Select hinges, rollers, locks, handles, restrictors, closers and other hardware to suit panel size and weight, operating duty, security and accessibility requirements. Where safety from falling or other opening restrictions apply, the required restrictors or other safety measures shall be identified in the project design.
- **Durability and exposure.** Confirm the project exposure conditions and select the aluminium finish, coating system, hardware and fixings accordingly. More aggressive marine, industrial or other corrosive environments may require enhanced material, finish and maintenance provisions.
- **Building-envelope interfaces.** Coordinate frame/reveal depth, sill support, structural support, cladding junctions, flashings, air seals, exterior weather seals and drainage provisions with the project-specific wall and cladding design.
- **Fixings and support.** Fixing type, spacing, edge distances, substrate, packers and structural support shall be suitable for the unit configuration, design loads, supporting construction and installation details.

- Pre-manufacture confirmation. Before fabrication, confirm the final window and door schedule, dimensions, configuration, glazing, hardware, finish/colour, opening direction, wind/design pressure and relevant interface requirements. Any project-specific engineering or other technical assessment required for the proposed configuration shall be identified before manufacture.

7. Installation Requirements

Installation shall be carried out in accordance with the consented project details and the requirements below. Key controls include opening preparation, structural and sill support, packers, suitable corrosion-resistant fixings, plumb/square alignment, sill/head/jamb flashing integration, air seals, exterior weather seals, unobstructed drainage and commissioning of moving hardware.

8. Maintenance Requirements

Frames, glass, drainage paths, tracks, seals, perimeter sealants and hardware shall be periodically cleaned and inspected. Maintenance frequency shall reflect the exposure environment, with increased frequency in marine, industrial or contaminated locations. Damaged coatings, seals, glazing or hardware shall be repaired or replaced as appropriate to maintain performance.

9. Warranty

TBA Aluminium provides a limited product warranty for customised external aluminium windows and doors supplied under the TBA Aluminium product line. Warranty coverage is subject to correct product selection, transport, storage, installation, use and maintenance, and to the exclusions and conditions below.

- **Aluminium framing / fabricated joinery structure — 10 years.** Warranty against defects in the aluminium framing and fabricated joinery structure arising from defective materials or manufacture under normal building use, provided the product has been specified and installed within its applicable design and performance scope.
- **Hardware and accessories — 2 years.** Warranty against manufacturing defects in supplied operating hardware and accessories, including items such as handles, locks, rollers, hinges, restrictors and closers, where applicable. Normal wear, adjustment and routine maintenance are not manufacturing defects.
- **Powder-coated finish.** Finish performance is subject to the applicable powder-coating system, colour, exposure environment, coating supplier terms and required cleaning/maintenance regime. Where a separate coating manufacturer warranty applies, that warranty is to be read together with this product information.
- **Glass and insulating glass units (IGUs).** Glass and IGU warranty coverage is subject to the applicable glass/IGU manufacturer or supplier warranty and the project glazing specification. Breakage after handover is not covered unless it is established to result from a warranted manufacturing defect.
- **Warranty conditions.** The product must be installed in accordance with consented project details, applicable TBA installation requirements and good trade practice. Drainage paths must remain unobstructed and frames, tracks, seals, hardware and finishes must be maintained at a frequency appropriate to the exposure environment.
- **Warranty exclusions.** The warranty does not cover damage or failure caused by incorrect design or specification outside the product scope; incorrect installation or fixing; building movement or substrate failure; impact, misuse or unauthorised modification; lack of maintenance; blocked drainage; incompatible chemicals or sealants; abnormal corrosive exposure; natural disasters or other external causes beyond the product itself; or fair wear and tear.
- **Warranty claims.** Claims should be submitted to TBA Aluminium with the project/order reference, property address, description of the issue, date first observed, photographs and any relevant installation or maintenance information. TBA Aluminium may require reasonable access to inspect the product before determining the appropriate remedy.

Nothing in this warranty statement is intended to exclude or limit any rights or remedies that cannot lawfully be excluded or limited under applicable New Zealand law.

10. Health and Safety Information

TBA aluminium windows and external doors are finished building products and are not expected to present a hazardous-substance risk during normal use. Installation, glazing, adjustment, maintenance, removal and replacement can, however, involve significant physical hazards. Work shall be planned and carried out by suitably competent persons using appropriate site controls.

- **Manual handling and lifting.** Window and door units, aluminium frames and glass can be heavy and awkward. Assess unit weight and size before lifting; use team lifting or suitable mechanical lifting equipment where required; and secure units against falling or uncontrolled movement.
- **Glass hazards.** Glass can cause serious cuts or injury if broken or mishandled. Use suitable gloves, eye protection and protective footwear, and use appropriate glass-handling equipment and storage methods. Damaged or cracked glass shall not be installed.
- **Sharp edges and fabrication debris.** Cut aluminium, fasteners, drilled edges and damaged components may be sharp. Wear suitable gloves and remove swarf, off-cuts and other debris from work areas and drainage paths.
- **Working at height and falling objects.** Where installation or maintenance occurs above ground level, use appropriate access equipment, edge protection, fall controls and exclusion zones in accordance with the site safety plan. Do not leave unsecured units, tools or materials where they may fall.
- **Power tools and fixings.** Use drills, drivers, cutting tools and fixing equipment only by competent persons and in accordance with the tool manufacturer's instructions. Confirm the substrate and concealed services before drilling or fixing.
- **Sealants, cleaners and other chemicals.** Follow the relevant manufacturer's safety data sheet and instructions for sealants, primers, solvents and cleaning products. Ensure adequate ventilation and avoid products that may damage aluminium finishes, glazing seals or hardware.
- **Temporary stability and commissioning.** Frames and panels shall be adequately supported and secured during installation. Opening sashes and doors must be checked for safe operation, hardware engagement, restrictor function where applicable, and secure glazing before handover.
- **Maintenance safety.** Before cleaning, adjustment or replacement work, control the risk of opening panels moving unexpectedly and use safe access methods. Replacement glass, hardware and safety devices should be compatible with the original design requirements.

Project-specific site hazards and controls remain the responsibility of the relevant PCBU, contractor, installer and other duty holders. This BPIR document does not replace a project-specific health and safety plan, safe work method, manufacturer safety data sheet or other statutory duty.

11. Contact Us

For product information, technical documentation, project-specific product identification, installation or maintenance information, and warranty enquiries, contact:

Contact item	Details
New Zealand responsible supplier	TBA ALUMINUM WINDOWS LIMITED
Address	37 Porana Road, Wairau Valley, Auckland 0627, New Zealand
Email	info@tbawindows.co.nz
Telephone	+64277474077
Website	https://www.tbawindows.com/
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