

# Alumi Group

## BPIR (Building Product Information Regulation)

### Alumi Residential Series Windows and Doors



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## 1. Product

Alumi Residential Series Windows and Doors system manufactured and distributed by Alumi Group Limited.

## 2. Summary of Description of Building Product

Alumi is a versatile aluminium joinery system engineered for New Zealand conditions. The product line includes:

- Fixed, awning, and casement open-out windows
- Sliding and stacking doors and windows
- Hinged and French doors (open-in and open-out)

These components can be configured into combined systems, such as a sliding door integrated with side awning windows.

## 3. Relevant New Zealand Building Code (NZBC) Clauses

Alumi aluminium joinery complies with the following NZBC clauses when installed and maintained as per Alumi's instructions:

- B1 Structure – B1.3.1, B1.3.2, B1.3.3 (a, b, h, j), B1.3.4
- B2 Durability – B2.3.1 (b, c)
- C4 Movement to a Place of Safety – C4.3, C4.5
- D1 Access Routes – D1.3.1 (b)
- E2 External Moisture – E2.3.2, E2.3.7
- F2 Hazardous Building Materials – F2.3.1, F2.3.3
- F4 Safety from Falling – F4.3.1
- G4 Ventilation – G4.3.1, G4.3.3
- G7 Natural Light – G7.3.1, G7.3.2

### 3.1 Compliance Statements

#### 3.1.1 B1 Structure

Alumi products comply with NZS 4211:2008 for structural integrity, suitable for all wind zones up to High. Glazing is compliant with NZS 4223.3:2016 where human impact resistance is required.

### 3.1.2 B2 Durability

Durability is assured for at least 15 years in all Exposure Zones except in corrosive microclimates. IGUs conform to NZS 4223.2:2016.

### 3.1.3 C4 Movement to Safety

Suitable for installation in escape routes as specified by project requirements.

### 3.1.4 D1 Access Routes

Compliant with access routes where required. Accessibility fittings available.

### 3.1.5 E2 External Moisture

Compliant with NZS 4211:2008 water penetration testing and suitable for use under Acceptable Solution E2/AS1. Compatible sill support options are available.

### 3.1.6 F2 Hazardous Building Materials

Safe to handle and compliant with hazardous material requirements per F2/AS1 when installed correctly.

### 3.1.7 F4 Safety from Falling

Optional restrictors available for compliance with F4/AS1. Suitable for upper-level openings.

### 3.1.8 G4 Ventilation

Openable sash options available to comply with G4/AS1 for natural ventilation.

### 3.1.9 G7 Natural Light

Designed to meet G7/AS1 and G7/AS2 standards for natural lighting through size and VLT optimization.

### 3.1.10 Additional Standards

Tested and specified to meet the following:

- NZS 4211:2008 (Windows performance)
- NZS 4223 Parts 1–4 (Glazing performance and safety)

## 4. Scope of Use

The Alumi aluminium joinery system is engineered for use in a wide range of building types and applications across New Zealand. It is suitable for the following use cases:

### 4.1 Applicable Building Types

Residential buildings, including standalone homes, townhouses, duplexes, and multi-unit dwellings

### 4.2 Environmental Conditions

- Wind Zones: Suitable for all wind zones up to and including High, as defined in NZS 3604:2011
- Exposure Zones: Suitable for all exposure zones except for microclimates with corrosive environments, such as areas affected by:
  - Industrial pollutants
  - Geothermal activity
  - Coastal sites subject to salt spray (use of additional protective measures may be required)

### 4.3 Functional Applications

- Providing natural daylight to habitable and working spaces
- Enabling natural ventilation in compliance with NZBC G4
- Allowing for visual connection to outdoor environments
- Offering access and egress where required by NZBC D1 and C4
- Supporting safe occupancy, including fall prevention when required by F4
- Where applicable, contributing to thermal envelope performance under NZBC H1 when combined with suitable IGU options

### 4.4 Limitations

- Not suitable for buildings over three storeys or 10 metres in height
- Not tested or rated for fire resistance — cannot be used where fire-rated joinery is required
- Not recommended for installation in areas where routine maintenance cannot be performed

## 5. Design Specification

Alumi is suitable for use in the following typical applications:

- Residential, office, educational, and light commercial projects up to three storeys (or 10 m in height)
- Wind Zones up to and including High, as defined by NZS 3604:2011
- All Exposure Zones, except where industrial or geothermal microclimates are present
- Overall door or window heights up to 3.1 m
- Maximum Insulated Glass Unit (IGU) thickness: 28 mm
- Powdercoated or anodised finish options from Alumi's standard or extended colour range

Joinery designs must comply with NZBC Acceptable Solutions, including:

- E2/AS1 (external moisture)
- F4/AS1 (safety from falling)
- G4/AS1 (ventilation)
- G7/AS1 or G7/AS2 (natural light)

When used in mechanically ventilated or thermally controlled buildings, Alumi joinery achieves an air permeability classification of Class 3 in accordance with NZS 4211:2008.

Custom fabrication is required for each project. The following must be confirmed by the designer/specifier:

- Unit dimensions and wall thicknesses
- Window/door configuration and opening types
- Wind and exposure zone requirements
- Hardware: restrictors, locks, closers, safety latches
- Finish and colour specification
- Reveal and trim preferences
- Any special detailing, such as cladding interfaces, rebates, thresholds, and drainage considerations

## 6. Installation Requirements

Correct installation is critical for performance and compliance. Key requirements:

- Store joinery in a clean, dry area before installation
- Inspect all units for damage before installation
- Confirm dimensions and compatibility with framed openings
- Follow approved shop drawings and guidance

- Install level, plumb, and flush to meet MBIE tolerances
- Ensure adequate mechanical fixings are used
- Apply air and weather seals thoroughly as specified
- Check and adjust operational hardware post-installation
- Clear all drain holes of debris to allow water egress

Alumi provides installation support and system-specific guidance upon request.

## 7. Maintenance Requirements

Routine maintenance is required to preserve function, appearance, and to maintain product warranty coverage:

- External surfaces: Wash every 3 months using warm water and mild detergent. Increase frequency to monthly in coastal or geothermal environments. Rinse cavities and exposed joints thoroughly.
- Drain holes: Clear every 3 months
- Tracks and sills: Clean every 3 months for sliders or bifold units
- Interior surfaces: Dust or clean with damp soft cloth, then dry
- Hardware: Wipe and inspect regularly. Lubricate hinges, rollers, and locks annually.
  - Plated components: Avoid abrasives or detergents. These finishes are not recommended and are excluded from warranty.
- Glass: Clean with proprietary glass cleaner or water + mild detergent. Avoid abrasives and always dry completely to avoid stains or permanent marks
- Powdercoat finishes: Avoid sunscreen residue and chemical contact

## 8. Warranty

Alumi products are covered by a 5-year warranty against manufacturing or material defects under normal usage, provided installation and maintenance instructions are followed.

- Finish and hardware warranties may differ and are covered by respective suppliers
- Plated hardware finishes are excluded
- Warranty is void if installed outside of defined wind zone or compliance scope
- Electronic locks are covered by a 1-year warranty

Warranty Registration:

Must be completed within 30 days of the final invoice. Email: [support@alumi.co.nz](mailto:support@alumi.co.nz) with purchaser name, invoice number, and project address.

## 9. Health and Safety Information

Alumi Group Ltd.  
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Safe handling and installation practices must be followed.

Use appropriate PPE during installation (gloves, eye protection).

## 10. Contact Details

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