



LEAD WINDOWS & DOORS LIMITED

BPIR (Building Product Information Regulation)





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1. Product

LEAD Residential Series Windows and Doors system manufactured by Shanghai Linzhi Industrial Ltd and distributed by LEAD Windows & Doors Limited.

2. Summary of Description of Building Product

LEAD aluminum windows and doors engineered to fit New Zealand weather conditions. The products are custom fabricated to the requirements of each project. Units are glazed with insulated glass units (IGUs) and may include fixed or opening sashes and door panels. It comprises of a fully assembled thermally broken aluminum window and door joinery units:

- Fixed, awning, and casement open-in and open-out windows
- Sliding and stacking doors and windows
- Single Hinged entrance 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

LEAD aluminum windows and doors comply with the following NZBC clauses when installed and maintained as per LEAD'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)
- 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



LEAD products comply with NZS 4211:2022 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 E2 External Moisture

Compliant with NZS 4211:2022 water penetration testing and suitable for use under Acceptable Solution E2/AS1. Sill support options are available.

3.1.4 F2 Hazardous Building Materials

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

3.1.5 F4 Safety from Falling

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

3.1.6 G4 Ventilation

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

3.1.7 G7 Natural Light

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

3.1.8 Additional Standards

Tested and specified to meet the following



- AS2047-2014 Windows and external glazed door in buildings
- NZS 4223 Parts 1–4 (Glazing performance and safety)

4. Scope of Use

The LEAD 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 wind zones up to and including High, as defined in NZS 3604:2011

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 stories or 10 meters 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

LEAD is suitable for use in the following typical applications:

- Residential, office, educational, and light commercial projects up to three stories (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
- Powder coated finish options from LEAD's standard or extended colour range (Iron sand, matt black, appliance white)

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)

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 options
- 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
- Checking all units according to label and window Identification 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

LEAD 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: recommend to clean surface every 3 months or per actual situation using warm water and mild detergent. Increase frequency to monthly in coastal or geothermal environments. Rinse cavities and exposed joints thoroughly.
- Interior surfaces: Dust or clean with damp soft cloth, then dry.
- Drain holes: Clear every 3 months or per actual condition.
- Tracks and sills: Clean every 3 months or per actual condition for sliders units.
- Hardware: Wipe and inspect regularly. Lubricate hinges, rollers, and locks annually.
- Glass: Clean with proprietary glass cleaner or water + mild detergent. Avoid abrasives and always dry completely to avoid stains or permanent marks
- Powder coat finishes: Avoid chemical contact

8. Warranty

LEAD 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
- Warranty is void if installed outside of defined wind zone or compliance scope
- Digital locks are covered by a 1-year warranty provided by manufacture

Warranty Registration:

Must be completed within 30 days of the final invoice. Email: info@leadwindows.co.nz with purchaser name, invoice number, and project address.

9. Health and Safety Information



Safe handling and installation practices must be followed.

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

10. Contact Details

Importer: Lead Windows & Doors Ltd

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