

# SKYRAIL Dr SERIES

Glass Infill Balustrade System

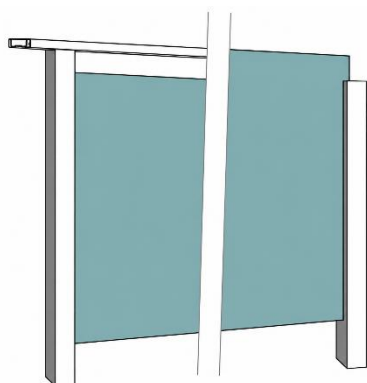
## Product Description

The Skyrail Dr Series is an economical, robust, and durable aluminium and glass balustrade and fencing system, engineered for long-term performance across residential and commercial applications, including high-rise apartments.

Designed for strength and versatility, the system can be configured as partially or fully framed, with high-strength structural aluminium providing cost-efficient durability. A structural top rail is available for projects requiring additional strength and compliance such as high-rise apartments while a semi-frameless option offers a clean, contemporary glass edge.

With both face-fixed and top-mounted configurations, the Dr Series adapts easily to balconies, staircases, decks, boundary fencing, and privacy screens. A wide selection of glass thicknesses, tints, and finishes are available.

All Altech balustrades are supplied with a project-specific PS1.



## Key Features

- This system is engineered for strength, durability, and cost efficiency.
- Available in both fully framed and partially framed configurations.
- Available with a top rail design or a semi-frameless format, presenting a clean glass-only top edge.
- Designed for full compatibility, the system is fully interchangeable with a range of other Altech balustrade products, offering flexibility to customise and integrate into any project requirement.
- Compatible with both waterproof and floating deck systems.
- Suitable for face-fixed or top-mounted installations.
- Engineered for fixing to timber, concrete, and steel substrates.
- Durable powder coat (wide colour selection) or anodised premium finish.
- Design solutions available for cavity-clad building structures.
- Warranty:
  - 5-year on materials (excluding surface coating),
  - 2-year on workmanship,
  - Applicator warranty on powder-coating (eg 10-25 years for Duratec; refer to applicator for other coating warranties).

## Scope of Use

Skyrail Dr Series is suitable for a wide range of residential and commercial applications, including:

- Decks, balconies, ramps, stairs, and pool fencing
- Screens in conjunction with balustrading
- Occupancies where people congregate
- Residential occupancy
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The system is designed to meet the requirements of the following occupancy types as defined in NZS 1170:

- A (Domestic and residential)
- A Other (External balconies)
- B, E (Offices and workspaces)
- C3 (Areas without obstacles)

Skyrail Dr Series has been engineered to fix to a range of substrates, including timber, concrete, and steel substrates, and is suitable for;

- All wind zones including very high and extra high as defined by NZS 3604
- Coastal, geothermal, and industrial environments

## Limitations of Use

All Skyrail Dr extrusions, components, and hardware must be supplied by Altech Systems NZ Ltd or JW Projects Ltd.

All Skyrail Dr balustrade installations must be supported by a Producer Statement (PS1 – Design), available from Altech Systems Ltd.

Any deviation from standard fabrication or installation methods must be accompanied by a site-specific PS1 issued by a suitably qualified design professional.

Aluminium extrusions are manufactured to 6060 T5 or T6 specifications to ensure strength and durability.

Installation must be carried out by an Altech Systems NZ Ltd approved installer in accordance with its technical documentation.

## Statement of Building Code Compliance

All products are designed by a Chartered Engineer and are manufactured and tested in accordance with the relevant sections of the New Zealand Building Code and New Zealand Standards listed below:

### New Zealand Building Code Clauses

B1 Structure – B1.3.1, B1.3.2, B1.3.3 (C, F, H, J, M), B1.3.4

B2 Durability – B2.3.1 (B), B2.3.2 (A, B)

D1 Access Routes – D1.3.3 (J, K)

F2 Hazardous Building Materials – F2.3.1, F2.3.3 (A, B)

F4 Safety From Falling – F4.3.1

F9 Swimming Pools – F9.3.1, F9.3.3

## Other Compliance Documents

NZS 1170 – Loadings

NZS 4223.1 and 4223.3 – Glazing in Buildings

AS/NZS 1664 – Aluminium Structures

Powder Coating Systems – Compliant with Window & Glass Association NZ Powder Coating Quality Assurance Systems (PQAS)

Powder coated surface finishes – Formulated to meet AS 3715 and AAMA 2605

Anodised surface finishes – Compliant with WGANZ Voluntary Specification SFA 3503-03-2005

## Warranty

Altech Systems NZ Ltd offers the following warranties for the Skyrail Dr Series:

Workmanship: 2-year warranty

Materials (excluding surface finishes): 5-year warranty

Surface Finishes: Covered by the applicator or manufacturer's warranty. The duration of this warranty may vary depending on the specified coating system.

Altech Systems Ltd recommends the use of Duratec or an equivalent high-performance surface finish specification, which may offer up to 20 years durability warranty and 20 years colour warranty, subject to environmental conditions and compliance with the coating manufacturer's maintenance requirements. For further information on warranties, please refer to the Altech Systems "Balustrade Warranty" document.

## In Service History

Skyrail Dr balustrades have been in use since the early 1990s, installed on thousands of balconies, landings, stairs, and pool areas throughout New Zealand. Some of the earliest installations are still performing to a high standard and remain in excellent condition.

### Notable projects include

- Queens Square
- Vincent Apartments
- Brickworks
- Kensington Park
- Queens Residence
- Queens Park Residences
- Thompson Park