

COMMERCIAL & RESIDENTIAL BALUSTRADE DESIGN

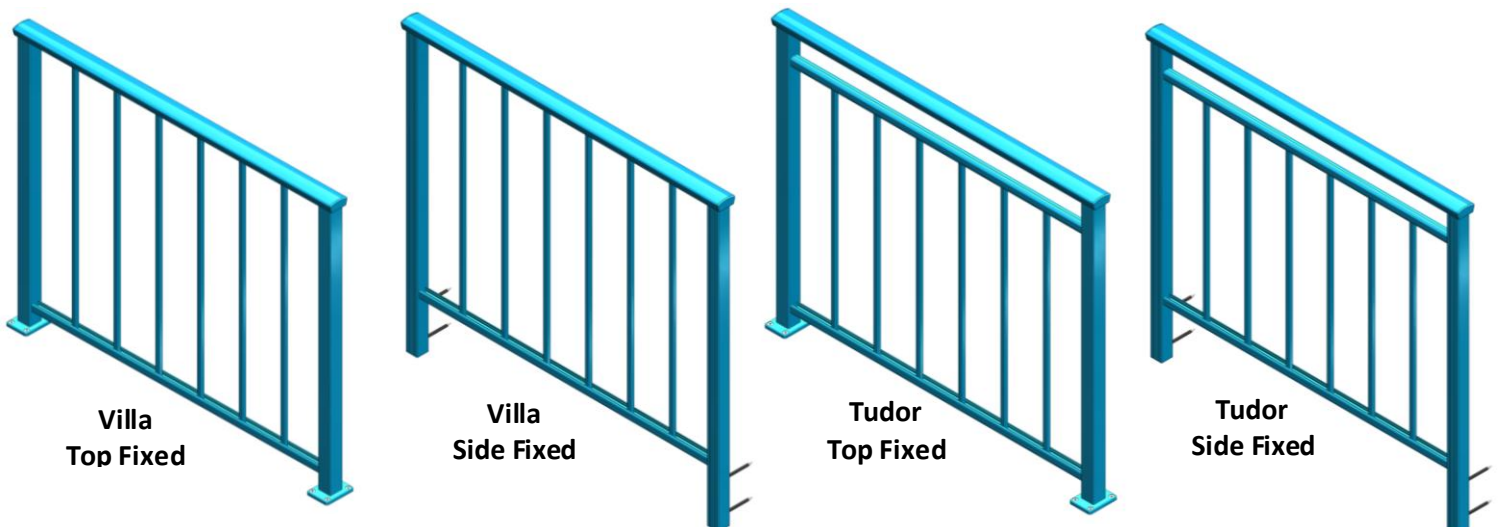
Framed Aluminum Balustrades Introduction

Description:

Provista Balustrade Systems Framed Aluminium balustrade solutions feature modern aluminium post and handrail profile designs suiting both classic and contemporary building design. Hidden post-fixings when face-fixing to a deck structure provide an ultra-clean look. There's a choice of flat or rounded handrail profiles and infill panels are made up of a square-section baluster. The two main styles are Villa, where the baluster panel meets the underside of the upper handrail and is held at the bottom within a lower rail, and Tudor, where there is a gap between the upper handrail and an additional rail. The baluster panel fits into this rail and a lower rail.

Key Features:

- Designed for residential and commercial applications including apartment balconies and decks
- Suitable for both interior or exterior applications
- Hidden-fixings for face-fixed solutions
- The infill is constructed of a modern square-section baluster profile
- Designed for all building structures including membrane decks
- T6 Temper Grade alloy used for all profiles, providing approx. 20% increased strength for greater post spacings
- Multiple finish options – can be powder-coated or anodised in all available NZ colours, including Dulux Duratec powder coating for high-corrosion zones
- National design service to assist with project specific design and detailing
- National network of fabricators and installers
- Complies with AS/NZS 1170, NZS3603, AS/NZS 1664, AS/NZS 2208 and NZS 4223.3 2016
- 5 year warranty on balustrade, 10 year warranty on Dulux Duralloy powder-coating, 20 year warranty on Dulux Duratec powder-coating



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Scope of Use:

Provista Framed Aluminum solutions are designed to comply with A, B, E and C3 loadings for residential and commercial occupancy types and are suitable for decks, balconies and stairways.

Suitable building structures can be timber, concrete, steel and typical combinations of each. Provista Framed Aluminium solutions can also be used in conjunction with the Provista Gutter Bracket – a robust stainless steel product designed to be specified where membrane decks and gutters are required.

A rectangular ('Retro') handrail and rounded ('Euro') handrail options are available.

Address or Site-specific design and Producer Statements can be arranged as required.



Limitations on Use:

- Provista Framed Aluminium solutions should only be used in accordance with the Provista Technical Manual. The Manual confirms post spacings and fixing methods available
- Not suitable for Commercial Occupancy Type C5
- Specified for use in Very High Wind Zones but Site Specific PS1 and Calculations can be provided for Extreme Wind Zones
- For high corrosion zones use Dulux Duratec powder-coating

NZS 3604 MAXIMUM SUITABILITY



Very High Wind Zone

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In-service History:

Provista has over 10 years of balustrade and pool fence design, development and installation experience across New Zealand. Provista products are designed and manufactured for NZ conditions. The Provista Framed Aluminium styles have been installed in thousands of homes, apartments, schools, aged care villages etc. Many kilometres of Provista Framed Aluminium solutions are installed across the length and breadth of NZ

Statement of Building Code Compliance:

- Provista Balustrade Systems solutions have been designed and tested by independent engineers to comply with:
 - o AS/NZS 1170 Structural Design Actions
 - o NZS3603 Timber Structures Standard
 - o AS/NZS 1664 Aluminium Structures – allowable stress design
 - o AS/NZS 2208 Safety Glazing Materials in Buildings
 - o NZS 4223.3 2016 Glazing in Buildings – Human Impact Safety Requirements
- Villa and Tudor Framed Aluminium styles are designed for Occupancy A, B, E and C3
- Designs are engineered to comply with B1, B2, F2 and F4 of the NZ Building Code
- For applications outside the Provista Technical Manual specifications a Site Specific PS1 can be prepared upon request

NZBC DESIGNED TO COMPLY

B1

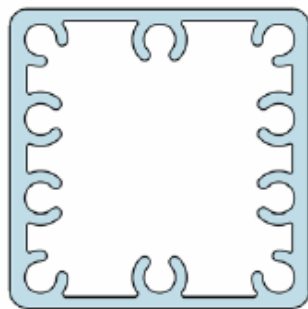
B2

F2

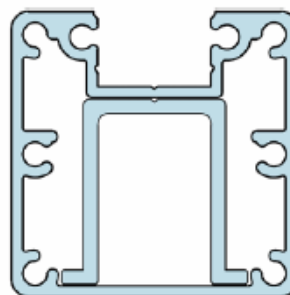
F4

Structure Durability Hazardous Materials Safety From Falling

Provista Balustrade Systems Framed Aluminum Post Sections
50mm x 50mm dedicated top and side fixed post options.



33143
53x53
Heavy Duty Post



31742 **
50x50
Side Fixed Post

** 31742 profile: The insert shown is only required at the balustrade deck connection point

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