

MANUFACTURING WARRANTY ANODISED ALUMINIUM EXTRUSIONS

McKechnie Aluminium Solutions Ltd confirms that Extruded and Anodised Aluminium product has been manufactured to the conditions of the following documents:

The requirements of:

- AS/NZS 1866 – 1997: Aluminium and Aluminium Alloys – Extruded Rod, Bar, Solid and Hollow Shapes.
- AS 1231 – 2000: Aluminium and Aluminium Alloys – Anodised Coatings for Architectural Applications.
- WANZ Specification [WANZ SFA 3503-03-2005]: Anodic Oxide Coatings on Wrought Aluminium for External Architectural Applications.

Under the controls of:

- AS/NZS ISO 9001: Quality Management Systems – Requirements.

McKechnie Aluminium Solutions Ltd state that the anodised product will retain its original integrity, including excellent light fastness stability for coloured anodising, for the warranted period, provided it is maintained to the requirements of Appendix 'C' AS 1231 & 'E' WANZ SFA 3503-03-2005 of these Specifications. Please refer to the detailed list below:

- 12 micron – 10-year warranty (ideal for interior/sheltered applications)
- 20 micron – 15-year warranty
- 25 micron - 20-year warranty (recommended for severe sea spray/corrosive zones)

These appendix's relate to the Maintenance of Anodised Aluminium, of which regular cleaning is essential to preserve the surface finish against subsequent attack by moisture when affected by grime deposition.

Table 1 – Minimum Coating Thickness – NZS3604 Corrosion Zone

Zone	Description	Minimum Thickness Microns	Suggested Thickness Microns
Sea Spray	Typically within 500m of the sea or within 100m of tidal estuaries. Predominantly the west coast of the South Island and the west coast of the top half of the North Island. This zone also includes all offshore islands.	25 micron	25 microns
1	Coastal areas that are not deemed 'Sea Spray' but are still close to the coast, this includes most of Auckland	20 micron	25 microns
2	Inland coastal areas that would normally lie between coastal and hill country	12 micron	20 microns
3	Inland New Zealand, typically hill country where rainfall is plentiful.	12 micron	12 microns
4	Geothermal areas. Other areas to be included in this zone would be swimming pools, polluted and high corrosion risk areas.	25 micron	25 microns
Note 1	All exterior black minimum 20 microns - application specific.	20 microns	25 application specific
Note 2	All bright anodised maximum 20 micron to avoid dulling of finish.	12 microns	

Manufacturing control and sampling test records are retained to verify conformance to the Standards and Specification referenced above.

McKECHNIE ALUMINIUM SOLUTIONS LTD WILL NOT ACCEPT ANY LIABILITY FOR LOSS OF QUALITY OF THE ANODISING RESULTING FROM EXTERNAL INFLUENCES, INCLUDING BUT NOT LIMITED TO: OXIDATION OF EXPOSED SURFACES INITIATED BY FABRICATOR CUTTING – DRILLING ETC; BIMETALLIC CORROSION DUE TO THE USE OF UNSEALED SCREWS – BOLTS; CONTACT WITH CAUSTIC BASED PRODUCTS – CONCRETE – MORTAR, TEXTURE COATINGS ETC.



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