

Nu-Wall Aluminium Wall Cladding - Statement of Performance

Design Aluminium Limited, as suppliers of extruded aluminium sections, surface finishes and proprietary aluminium cladding systems, offer this Statement of Product Performance in recognition of the New Zealand Building code. This Statement is limited to the materials supplied by us, specifically for the manufacture of proprietary aluminium cladding systems.

Extruded Aluminium Sections

The extruded sections are manufactured, from alloy of 6063 designation, in accordance with NZS 3504:1979, Amend. 1:1998, clause 5.1.1, and will comply with the Building Industry Authority Document, B2 – Durability, clause B2.3.1b, for a durability of 15 years, in accordance with the clauses 1.2.1b, 1.2.1e, 1.3.1 & 2.1 of Acceptable Solution B2/AS1.

Surface Finish – Powder Coating

The extruded aluminium sections are powdercoated in accordance with AS 3715:1989 and/or BS 6496:1984, Amend. 1:1992, and will comply with the Building Industry Authority Approved Document, B2 – Durability, clause B2.3.1c, for a durability of 5 years, in accordance with the clauses 1.2.1c, 1.2.1f, 1.3.1 & 2.1 of Acceptable Solution B2/AS1, provided the specified maintenance programme is implemented.

Surface Finish – Anodising

The extruded aluminium sections are anodized in accordance with BS 3987:1991 and will comply with the Building Industry Authority Approved Document, B2 – Durability, clause B2.3.1c, for a durability of 5 years, in accordance with clauses 1.2.1c, 1.2.1f, 1.3.1 & 2.1 of Acceptable Solution B2/AS1, provided the specified maintenance programme is implemented.

Proprietary Aluminium Cladding Systems

The Nu-Wall cladding system, if installed in accordance with the latest technical specifications from Design Aluminium Limited, will meet clauses, B1 Structure, B2 Durability, E2 External Moisture and F2 Hazardous Building Materials.

Alternative Solution

Nu-Wall is categorised as an Alternative Solution for external cladding of constructions within the scope of the Building Industry Authority Approved Document, E2 – External Moisture (Third Edition, Amendment 2; July 2005). The product has been determined by BRANZ as being suitable for installation as an exterior cladding, per the following Appraisals:

- Appraisal #550; Fixed over drained & vented cavity, horizontal orientation (risk scores 0 – 20)
- Appraisal #556; Direct-fixed, vertical orientation (risk scores 0 - 20)
- Appraisal #557; Direct-fixed, horizontal orientation (risk scores 0 – 12)

Risk scores are determined per the following tables published in E2/AS1:

- Table 1; Definition of risk.
- Table 2; Building envelope risk matrix.
- Table 3; Suitable wall claddings.

Maintenance

Cladding panels should have surfaces regularly cleaned with a mild detergent solution. In normal conditions six monthly cleaning is sufficient however, in locations within 1000m of breaking surf, geothermal or industrial environments, 3 monthly cleaning is required.