

Flashclad NZ Ltd Technical & Compliance Statements

FCNZ Ltd are designers, suppliers and installers of Flashclad's innovative powder coated extruded aluminium cladding and flashing systems.

DESIGN

Flashclad's aluminium weatherboard profiles provide unique innovative weathertight interlocking joint at all board connections and are unmatched by any other cladding manufacturer.

All cladding systems incorporate one-piece trims, ie external - internal corners, base starters and soffit trims. All one-piece trims designs provide a secondary line of defence.

All Flashclad cladding systems incorporate the patented Flashman mechanical flashing system. Around joinery openings we provide a combined head flashing/ cavity closure with machined aluminium stop-ends, joinery supporting sills and a full jamb and facing trim system around all joinery

Note: There is no use of, or the reliance on sealants, foams or plastic back flashings to manage water.

CLADDING PROFILES

Bevelbord > provides a traditional horizontal weatherboard look with an aesthetic 7 degree point of difference at the base of the board. (135 mm cover)

Dualbord > provides a modern combined flat face and recessed negative detail appearance particularly when installed vertically. Dualbord can also be installed horizontally which provides a shiplap look. (170mm cover)

Euro-line > a wide flat faced board which creates a panel effect with a fine 2 mm vee joints at the boards lapping sections. Can be installed horizontally or vertically (230 mm cover)

Euro-lap > a similar profile to Euro-line with fine 20 mm wide 3 mm recess at the boards lapping sections. Can also be installed horizontally or vertically. (230 cover)

CAVITY AND FIXINGS

Flashclad is suitable for cavity construction only and is compatible for use with timber, steel framed and concrete wall structures.

Our fixings 65 mm Type 17 Stainless Steel roofing screws are secured directly through hidden sections of the board profiles and into the wall structure. Our fixing methods provide exceptionally strong face load abilities and eliminate board movement.

Our cladding fixing methods have been tested to wind speeds of approx. **360 kph**

Note: we do not rely on clips to hold our board profiles in position.

DURABILITY

Flashclad's thicker aluminium profile designs provide unique properties of strength, corrosion resistance and won't rot providing extreme durability with a serviceable life of 50-100 years, while also providing extremely low on-going maintenance costs

Flashclad promotes the use of quality powder finishes using only Interpon's commercial Futura range (25 year warranties) and Dulux's Duratec/Electro range (20 year warranties) on all its cladding systems.

Over extended time should the powder coated finish peel completely off, the system will still perform and provide the ultimate in weathertightness and will not rot or corrode during the life of the building. Using Flashclad there is no reliance on membranes or sealants to keep the water out.

FIRE SAFETY

Flashclad's cladding systems incorporate an aluminium cavity batten and are a non-combustible system when used in conjunction with fire rated designed wall structures. (also suitable for use on boundary walls)

Our Eurobord profiles are 3 mm in thickness, (Dualbord/Bevelbord 2 mm in thickness)

Our cladding is lightweight Eurobord 11 kg/sq m, (Dualbord/ Bevelord 8 kg sq/m)

Flashclad's 20 mm cavity depth restricts air flow and flame spread in the event of a fire

Flashclad's Aluminium cladding will not ignite, smoulder or explode off the wall in the event of a fire. Our Cladding is fixed to the structure and not a rail system. Our unique inter-locking weatherboard design will not allow flame to escape.

Powder coating finishes contain no combustible materials

Flashclad's aluminium cladding systems meet NZ Fire Safety standards and are suitable for use where non-combustible materials are required.

COMPLIANCE

AS/NZS 4284

Predominately used for Rainscreen systems usually on rail systems with cavity depths from approx 60 - 120mm. The focus is on how water is managed behind the cladding.

Flashclads 4284 testing was conducted as a **weathertight** cladding system using a standard 20 mm cavity depth.

The test was conducted using the patented Flashman mechanical extruded flashing system without the reliance on sealants, foam or back flashings

Our test level limit was set at 4.500 kPa to meet the highest of NZ's wind conditions.

Flashclad's AS/NZS 4284 testing achieved **4.500 kPa**

Proven to be one of the best tested **weathertight** cladding systems in NZ

Branz Appraisals

VM/1 testing concluding Branz appraisals 573, 800 & 829

Face-Load testing

Face-Load tested using vertical Eurobord installed to a 150 x 50 timber framed wall with studs at 600 c/s and dwang lines at 800 c/s.

Using vertically installed Eurobord our fixings were positioned into the bottom/ top plates and dwang lines through the board laps at 350 c/s

Achieving the testing rigs maximum capabilities of **6.200 kPa**

A specific project requiring 6.200 kPa using Dualbord has undergone Mathcad computer analysing and achieved the required rating.

MECHANICAL FLASHING SYSTEMS

The Patented extruded aluminium Flashman Flashing Systems were introduced in 2005 as an Alternative Solution in terms of the NZBC.

Our flashing systems were introduced as an alternative to the common costly practice on relying on sealants around joinery openings to keep the water out.

AS/NZS 4284 **weathertight** tested to **4.500 kPa**.

Branz V/M1 tested – Appraisal 573

<https://flashclad.co.nz/drawings/flashman/>

NEW ZEALAND BUILDING CODE

Flashclads systems meet the provisions and requirements of the NZBC

B1 STRUCTURE: Performance: B1.3.1, B1.3.2 & B1.3.4

Flashclad`s thicker and unique profiles meet the requirements from loads arising from self-weight wind and impact.

B2 DURABILITY: Performance: B2.3.1 & B2.3.2

The Flashclad systems are produced from extruded aluminium and machined aluminium componentry. Our products will provide a minimum 50 year life expectancy. Flashclad uses powder coated surface finishes which provide minimum warranty periods of 20 years (Dulux) and 25 years (Interpon) if maintained in accordance with Flashclad`s Care and Maintenance Guide

E2 EXTERNAL MOISTURE: Performance: E2.3.2

AS/NZS 4284 **weathertight** tested to **4.500 kPa**..

F1 HAZARDOUS MATERIALS: Performance F2.3.1

Flashclad cladding systems are aluminium and are non- combustible therefore will not ignite, flame or burn.

For all technical advice please contact info@flashclad.co.nz

For technical details please visit www.flashclad.co.nz

INSTALLATION

Flashclad systems are installed only by its nationwide distributor network.

WARRANTIES

10 Year Installation Warranty

25 Year Product Warranty

Duratec/Electro 20 Years and Interpon 25 years Powder coating Warranties

MANUFACTURERS/ POWDER COATERS/ SUPPLIERS/



Flashclad directors Steve Hotton and Gerald Evans are members of:

Building Officials Institute NZ

Building Enclosure Council NZ

Updated 11 July 2019