

Nu-Wall Aluminium Cladding – General Information

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Description

Nu-Wall is an extruded aluminium weatherboard system offering a choice of fifteen different profiles for use on new construction or for re-cladding. It is suitable for residential or commercial works as exterior cladding for the entire structure or for feature areas in combination with other cladding products. Nu-Wall is also suitable for use in interior applications such as feature cladding or integrated into doors, screens etc.

Nu-Wall is supplied pre-finished in a wide range of powdercoat or anodised colours.

Physical details

<input type="checkbox"/> Classique	136mm cover
<input type="checkbox"/> Shiplap	150mm cover
<input type="checkbox"/> Ripple 150	150mm cover
<input type="checkbox"/> Ripple 190 & 200	190mm/200mm cover
<input type="checkbox"/> Louvre 30, 60 & 120	120mm cover
<input type="checkbox"/> Louvre150	150mm cover
<input type="checkbox"/> Aero 70	140mm cover
<input type="checkbox"/> Aero 115	115mm cover
<input type="checkbox"/> Aero 190 & 200	190mm/200mm cover
<input type="checkbox"/> Mono 190 & 200	190mm/200mm cover
<input type="checkbox"/> E200	200mm cover
<input type="checkbox"/> Ullos	162mm cover
<input type="checkbox"/> AliClad	150mm cover

Specifications are available for installation of the profiles in either horizontal or vertical orientation to suit the requirements of any project.

Nu-Wall weighs from approx. 4.7 – 6.6 Kg/M²

BRANZ Appraisals

Nu-Wall has been Appraised by BRANZ as being suitable for use as an exterior cladding. The following Appraisals apply –

- Appraisal 550; Installation of Nu-Wall cladding horizontally over a drained & vented cavity.
- Appraisal 870; Installation of Nu-Wall cladding vertically over a drained & vented cavity.
- Appraisal 557; Installation of Nu-Wall cladding horizontally, fixed direct to framing.
- Appraisal 556; Installation of Nu-Wall cladding vertically, fixed direct to framing.

Manufacture

Nu-Wall is extruded in New Zealand by an ISO 9001 certified manufacturer using 6063 T5 or 6060 T5 aluminium alloy. Nu-Wall Aluminium Cladding Ltd maintain stocks of all Nu-Wall profiles in 5.0M and

6.0M lengths. In order to minimise wastage on a particular project, Nu-Wall may be supplied in custom-drawn lengths, however this would be subject to certain minimum order and lead-time criteria.

Powdercoat finishes

Nu-Wall is chemically prepared, powdercoated and baked in an oven. Adhesion of the coating to the metal is superb and meets or exceeds relevant New Zealand and Australian standards. Approximately 100 stock colours are available with further options, such as custom or corporate colour matches being able to be made to order. Also available are textures, ripples, metallics and anti-graffiti coatings. Finishes carry warranties from the powder manufacturer relating to film- and colour-integrity. Warranty periods of up to 25 years are available, depending upon the grade of powder selected.

Anodised finishes

This is an electrolytic oxidation process which converts the aluminium surface to a coating. Matt natural silver is most common, but bright, polished and coloured finishes are also available. Anodising is a durable and reliable process, but one which cannot always guarantee total uniformity of appearance. Some apparent difference can occur between finished boards.

Anodising can be applied in a range of film thicknesses; please refer to AS1231 for guidance on appropriate film builds for your application.

Maintenance

The cladding should be washed periodically to maintain its appearance; the frequency being dependent upon the subject environment. In most situations washing every two years should suffice, though more frequent washing may be necessary in harsh environments (e.g. coastal marine, industrial, geothermal).

When cleaning powder-coated surfaces, proceed as follows:

1. Carefully remove any loose deposits with a wet sponge.
2. Use a soft, non-abrasive brush and a mild household detergent solution to remove dust, salt and other deposits.
3. Rinse off with clean water.

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Additionally –

- Remove obvious deposits as they occur.
- Take care when selecting cleaning products to remove any deposits which resist normal washing. Do not use heavy solvents (e.g. thinners, petrol etc.) as these will damage the coating. Methylated Spirit, Isopropanol or Citrus-based cleaners are acceptable for use.
- Avoid excessive heat as this may also damage the coating.

Other applications

Though primarily an exterior wall cladding, Nu-Wall has numerous other applications; for example –

- Soffits and fascias
- Garage doors
- Doors, gates & fences
- Interior walls and ceilings
- Decorative shutters
- Cabinets & counter fronts
- Space dividers and screens

Lead-times

Nu-Wall profiles are held in stock in sufficient quantities to complete small to medium orders. Stock is held in mill-finish and is surface-finished per customers' orders. This normally takes approximately one week for powdercoating or two weeks for anodising. For some Nu-Wall profiles, a limited stock of natural anodised (15-micron) product is held, allowing prompt supply of small orders.

Larger projects normally require the main profiles to be extruded as required; this normally adds two weeks to ex-stock lead-times.

Supply chain

Nu-Wall Aluminium Cladding Ltd offer options for obtaining supply of Nu-Wall:

- Product can be sourced from us (or from one of our Regional Distributors) for installation by a general building contractor, or by an experienced third-party installer.
- Product can be sourced from us (or from one of our Regional Distributors) by the general building contractor for on-supply to the project owner as part of an overall contract.
- Product can be sourced from an experienced third-party installer as part of a supply/install contract.

Installation

Nu-Wall may be installed by a competent builder following our published procedures. Alternatively, we can refer you to an experienced installer (see information relating to Supply Chain).

Handling and storage

Short-term storage, raised off the ground, in cardboard cases is acceptable but we recommend dry storage for longer periods. 5 metre boards can be handled by one person, however they are managed more easily by two people.

Warranty

The Nu-Wall aluminium substrate is warranted in normal use against rotting, rusting, cracking or distorting for 100 years (or the lifetime of the building). See information relating to Powdercoat Finishes for details of powdercoat warranties.

Product performance

Nu-Wall is categorised as an Alternative Solution for exterior cladding within the NZ Building Code and its suitability for this purpose has been appraised by BRANZ. For more complete information please refer to the separate document; "Nu-Wall Aluminium Cladding – Statement of Performance".

Resources for Specifiers

Nu-Wall Aluminium Cladding Ltd maintain extensive technical specifications relating to installation procedures. These are covered in the separate documents; "Nu-Wall Aluminium Cladding – Specification Reference" and "Nu-Wall Aluminium Cladding – Installation Reference", and in the technical drawings referred to within these.

Spread of fire

Nu-Wall cladding consists of a non-combustible aluminium substrate coated with a surface finish less than 1.0mm thick. Accordingly, wall cladding systems based on Nu-Wall cladding are exempted from the exterior surface finished requirements of Table 2 of Acceptable Solution C3/AS1 (refer Paragraph 4.9.4 of C3/AS1).

Trademark

Nu-Wall is the Registered Trademark of Nu-Wall Aluminium Cladding Limited.