

DRI-CLAD™

Drip Resistant - Metal Roofing and Cladding



DRI-CLAD™

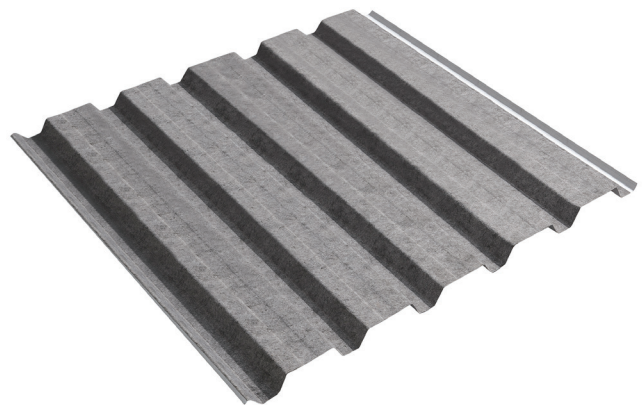
Description

A revolutionary new series of "drip resistant" metal roofing and cladding products manufactured utilising a factory applied moisture absorbing fleece to the underside of sheeting providing condensation control and thermal benefits for use across many construction projects.

The DRI-CLAD™ Story

Where uninsulated roofs and walls are being designed and constructed, traditionally underlay along with mesh is installed under metal roofing and cladding to prevent any potential water leakage through the sheeting into a building.

Unfortunately, condensation can still form on the underside of uninsulated metal roof and cladding plus underlays particularly when the Dew Point and Condensation reaches a point whereby moisture droplets form. Once saturation point is reached, water droplets permeate into the structure potentially damaging any goods "housed" within the building.



Utilising the very latest in technology, Roofing Industries has perfected the lamination of an absorbent self-adhesive fleece to the reverse side of the roofing and cladding profile during the manufacturing process which in turn absorbs and traps the moisture within the fleece cells. Once the dew point is no longer prevalent and the building utilizes mechanical ventilation and a vapour barrier is provided, moisture captured by the fleece is released harmlessly back into the atmosphere as normal humidity.

DRI-CLAD™

The manufacturing process



Fleece laminating

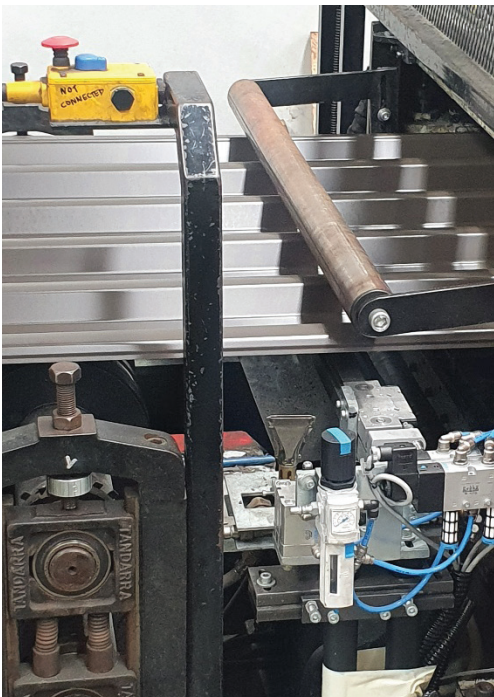
A self-adhesive moisture controlling fleece is applied to the underside of the roofing and cladding coil utilising Roofing Industries' state of the art coil laminating line. The edge of the fleece is positioned just short of the coil edge thereby not hindering the side lap nesting process whilst being installed.

The finished coil is then transferred to one of the many Roofing Industries roll-forming lines, where it's formed into the finished DRI-CLAD™ profile to customer's choice.

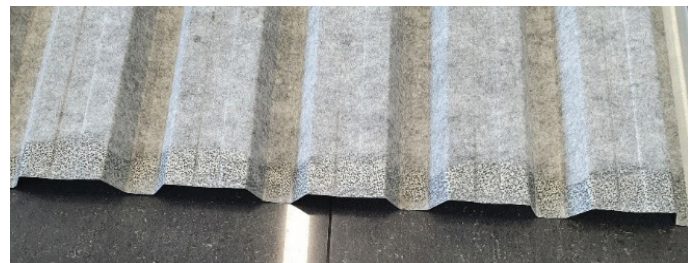


Burn-back process

A suitable drip edge is to be provided at the end of the roofing sheet by melting the fleece back 30-60mm using a heat gun or butane gas burner. This can quite simply be achieved during the installation by the installer prior to the gutter being installed or alternatively, for product manufactured by Roofing Industries in Auckland, this process can be undertaken during the rollforming process using proprietary inline burn-back apparatus (pictured) thereby avoiding additional Labour costs on site.

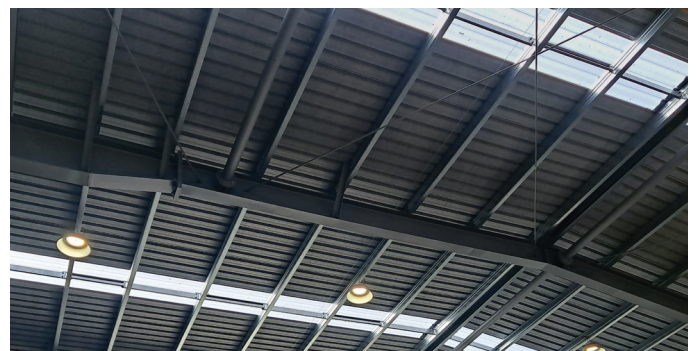


Rollforming to Profile



Completed Burn-back profiled sheet

burn-back (30-60mm)



Installed

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DRI-CLAD™

Features

- ▶ Reduces the likelihood of condensation forming and dripping
- ▶ Provides drier and healthier buildings
- ▶ Mould reduction within ceiling cavities
- ▶ Alleviates the need for underlays and in some cases mesh thereby reducing material and installation costs
- ▶ Installation costs reduced in windy conditions
- ▶ Bacterial resistant
- ▶ Fire rating - Complies with - AS1530.2:1993 FR Index ≤5
- ▶ Available in a selection of Roofing Industries roofing and cladding profiles
- ▶ Resistant to tearing, deterioration and many chemical substances
- ▶ The fleece is laminated to the profile in such manner so that capillary action or deformation of the lap is not relevant
- ▶ Assists with corrosion protection to the reverse side of the roof and cladding
- ▶ Reduces the possibility of "noisy buildings"
- ▶ Provides additional acoustic benefits
- ▶ Rodent and bird nesting is virtually non-existent
- ▶ Can be high pressure water cleansed to remove grime and contaminants.
- ▶ Available as unpainted Zincolume®, Magnaflow® Galvanised, 0.9 Aluminium, Colorsteel® and Colorcote®

Applications

- ▶ Commercial and Industrial buildings experiencing condensation concerns
- ▶ Warehousing
- ▶ Retail and trade outlets
- ▶ Vehicle showrooms
- ▶ Car Park buildings
- ▶ Art galleries
- ▶ Gymnasiums and indoor sports facilities
- ▶ Stadiums
- ▶ Rural sheds
- ▶ Self storage facilities
- ▶ Animal housing*
- ▶ Trucking logistical loading and unloading facilities**
- ▶ Residential construction***
- ▶ Timber storage and drying shelters

- * Intensive numbers and types of animals housed within a DRI-CLAD™ structure may generate possible damaging dust and corrosive atmosphere. Contact Roofing Industries technical staff prior to specification or use
- ** Where diesel and other fumes which are not sufficiently ventilated from with a structure, contact Roofing Industries technical staff for further advice prior to specification or use
- *** Residential - Contact Roofing Industries technical staff for further advice prior to specification or use

Technical Specifications

- ▶ Self – adhering Polyester fleece laminated to the metal roofing and cladding
- ▶ Can absorb water up to 1 litre per m²
- ▶ Fleece thickness – Premium, 0.9mm (110 gsm)
- ▶ Moisture absorption – to AS/NZS 4201.6 = 528g/m²

NZBC Clauses

If designed, used, installed and maintained in accordance with the scope of the profile technical statement, the proprietary Polyester fleece which self-adheres to underside of Roofing Industries DRI-CLAD™ metal roofing and cladding profile will contribute in meeting the following provisions of the NZBC:

- ▶ B2.3.1 (b)
- ▶ C3.4 (a)
- ▶ E2.3.1, E2.3.2, E2.3.5, E2.3.7
- ▶ E3.3.1
- ▶ F2.3.1

Typical DRI-CLAD™ Roof and Cladding profiles

- ▶ Multirib®
- ▶ Maxispan®
- ▶ RI 925™
- ▶ RT7®
- ▶ Trimrib®
- ▶ Corrugated

Note: for True Oak™ products contact Roofing Industries.

Installation

Prior to ordering DRI-CLAD™ and installing the product, it is imperative that installers seek technical advice from Roofing Industries staff along with consulting the handling, storage and installation guide available from www.roof.co.nz. The DRI-CLAD™ Profile Technical Statement must be read and understood to alleviate any costly errors.

Logistics – Handling and Storage

Particular care should be taken when handling, storing and freighting the product and in particular ensuring the DRI-CLAD™ fleece does not come into contact with contaminants such as fertiliser, rusting steel, soiling or indeed any other product that may discolour or damage the fleece. Failure to adhere to this will immediately void any warranty. If the fleece becomes wet during transportation to site or prior to installation, the material must be dried prior to "burning back".

Durability

Selection of the correct grade of material and appropriate surface coating is imperative to ensure DRI-CLAD™ will perform satisfactorily in the environment it is to be installed, and meets the requirements of The NZ Building Code. Environmental Categories and Surface Coating literature is available on request.

Maintenance

Regular maintenance will extend the life of the roof and accessories. It is strongly advised that areas not receiving regular rain washing should be washed with freshwater on a regular basis. On purchasing your roof it is imperative the user request a copy of the maintenance guide(s) and familiarise yourself with industry requirements. Failure to do so can void the warranty.

Warranties

Warranties meet the statutory requirements of the NZ Building Code, are available on request and reflect our New Zealand owned and operated company, test facilities and local climatic conditions. Sample warranties are available by contacting any one of our branches via our website www.roof.co.nz.

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It should be noted that this technical data sheet is based around the requirements of E2/AS1 of the NZBC. For buildings or uses that are outside the scope of, or NOT required to comply with E2/AS1 alternative technical data may apply. Please refer to our website www.roof.co.nz. This literature must be read in conjunction with our DRI-CLAD™ Profile Technical Statement at www.roof.co.nz.



Roofing Industries Technical Helpline 0800 844 822 **WWW.ROOF.CO.NZ**
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