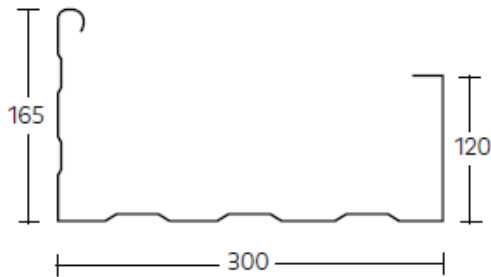
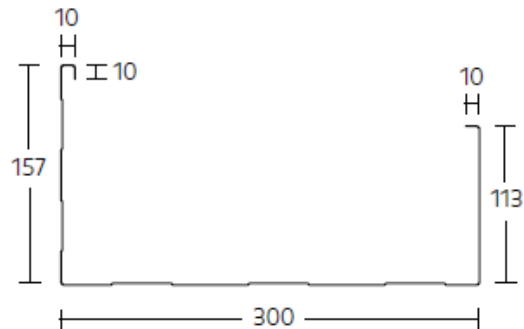


PRODUCT TECHNICAL STATEMENT



Rollformed shape



Folded shape (based on strip girth (g) of 600mm)

RECOMMENDED PRODUCT/DESIGN USE

- **Applications:** Residential / Commercial
- **Materials:** Steel 0.55mm G300
Aluminum 0.90mm H34
Stainless steel refer Dimond
- **Colours:** Available in pre-painted ColorCote® ZinaCore™, MagnaFlow™ and AlumiGard® COLORSTEEL® MAXAM™ and Altimate® Refer to www.colorcote.co.nz and www.colorsteel.co.nz
- **Durability:** All material selections must be compatible with the prevailing environmental conditions and adjacent materials. Areas not naturally exposed to rain will require scheduled maintenance.

ENVIRONMENTAL PRODUCT DECLARATION

Dimond Roofing® has been implementing green building principles across the industry for several years now and has developed a fully realised environmental sustainability pathway to reach our goal of reducing our carbon emissions by 30% by 2030. Dimond Roofing® has met the criteria for "Level A" certification for the Global GreenTag™ GreenRate™ ecolabel and as part of Dimond's Toitū carbonreduce® accreditation, essential Scope 1 & 2 emissions, are being measured as well as voluntarily measuring Scope 3 emissions.

Dimond Roofing® profiles are accredited with Eco Choice Aotearoa when manufactured from COLORSTEEL®. All manufacturing sites have been Audited by NZ Steel.

Dimond Roofing® recycle all steel scrap waste and offcuts which can then be remelted down and reused in other steel-based products. At the end of its useful life as a roofing profile can be recycled back by remelted down.

NEW ZEALAND BUILDING CODE COMPLIANCE

When used in accordance with Dimond Roofing installation and maintenance requirements, facilitate with meeting the following provisions of the NZBC:

- **B1 Structure:** Performance clauses B1.3.1, B1.3.2, B1.3.3 (a) (b) (c) (g) (h), B1.3.4 (b) and (d)
- **B2 Durability:** Performance clauses B2.3.1(b) and (c)
- **C3 Fire affecting areas beyond the fire source:** Performance clauses C3.4(a) and C3.9
- **E2 External moisture:** Performance clauses E2.3.1 and E2.3.2
- **F2 Hazardous building materials:** Performance clause F2.3.1
- **G12 Water Supplies:** Performance clauses G12.3.1 and G12.3.2

To comply with the performance clauses of NZBC E2 all cladding to be installed in accordance with:

- Acceptable Solutions NZS E2/AS1 or an Acceptable Alternative Solution
- MZ Metal Roofing Manufacturers Code of Practice
- Dimond Roofing Specification; details available on www.dimond.co.nz

Dimond Roofing is not subject to any warning or ban under section 26 of the Building Act 2004.

MAINTENANCE

In general, NZ metal roofing materials exposed to rain washing can be expected to comply with NZBC B2 without manual washing, or replacement of protective finishes.

Areas not directly exposed to rain, such as soffits, wall cladding under eaves, the undersides of gutters, fascia's,

and sheltered areas like garage doors, will require scheduled maintenance.

Refer to ColorCote® Minimum Maintenance Schedule and COLORSTEEL® Maintenance Recommendations Brochure.

Effective cross-sectional area (with 15mm free board) 33,550mm² or 29,400mm² (g=600mm)

Flow capacity 727 litres/min or 616 litres/min

Minimum recommended fall 1:500 = 2mm in 1m

Minimum downpipe Circular 150mm

Catchment area per downpipe based on the above flow capacity is given in Table below to determine the Rainfall Intensity to be used.

Rollformed Shape											
Rainfall Intensity, I (mm/hr)	50	60	70	80	90	100	120	140	160	180	200
Catchment Area per downpipe Ac (m ²)	870	725	620	545	485	435	360	310	270	240	215
Folded shape (based on Strip girth of 600mm)											
Rainfall Intensity, I (mm/hr)	50	60	70	80	90	100	120	140	160	180	200
Catchment Area per downpipe Ac (m ²)	738	615	527	461	410	369	307	264	231	205	184

Aluminium can only be folded

Rollforming facility: Auckland, Hamilton, Christchurch

(Note: all Dimond branches can fold gutter shapes with swages patterns to be confirmed at time of order)

Gutter bracket material and thickness	External	Hot dipped galvanised	5mm x 50mm
		Aluminium	6mm x 38mm
		*Stainless steel	5mm x 40mm

Recommended maximum spacings: 600mm spacing

Recommended fixings: Bolts or Screw fastenings to be compatible with substrate and bracket material

*Note: A PVC barrier tape must be placed between the inside of the stainless-steel bracket and the Box 125 gutter to isolate and avoid dissimilar metal contact.

Note: For Installation of gutters in snowfall areas refer to the section **Gutter brackets in snowfall areas** in the Dimond roofing Installers Guide.

DESIGN DETAILS

Design details covering residential & commercial are available at www.dimond.co.nz in PDF, DWG & RVT files under each product section.

ROOF DRAINAGE DESIGN

The objective of roof drainage systems is to maintain a weatherproof building, to minimise the risk of injury or inconvenience due to flooding, and to avoid potential monetary loss and property damage – including to the contents of buildings.

Roof drainage design requires consideration of:

- Type of gutter (external, internal, valley, or roof gutter)
- Rainfall intensity
- Catchment area
- Gutter fall
- Gutter-cross-sectional area and wetted surface area, and
- Outlet and downpipe capacity.

More information is available under 5.3 of NZMRM COP at www.metalroofing.org.nz

PUBLICATIONS

To achieve the product's full potential, it must be designed, installed, and maintained in accordance with Good Trade Practice. For more information, please refer to:

NZS E2/AS1: www.building.govt.nz

NZMRM: New Zealand Metal Roofing and Wall Cladding Code of Practice – www.metalroofing.org.nz

NZMRM: Installation Guide – Metal Longrun Roofing and Cladding – www.metalroofing.org.nz

RANZ: How to Guides – www.ranz.co.nz

Pacific Coil Coaters: Choose the Right Roof
www.colorcote.co.nz

Pacific Coil Coaters: Maintenance Schedule
www.colorcote.co.nz

Pacific Coil Coaters: Environmental Product Declaration
www.colorcote.co.nz

New Zealand Steel: Environmental Categories, Warranty & Product Maintenance Recommendations Brochure
www.colorsteel.co.nz

New Zealand Steel: Maintenance Recommendations Bulletin – www.colorsteel.co.nz

New Zealand Steel: Installers Guide www.colorsteel.co.nz

BRANZ: Good Profiled Metal Roofing and Wall Cladding – www.branz.co.nz

MBIE: Guide to tolerances, materials and workmanship in new residential construction 2015 – www.mbie.govt.nz

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Place of Manufacture: Aotearoa New Zealand



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Contact us

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