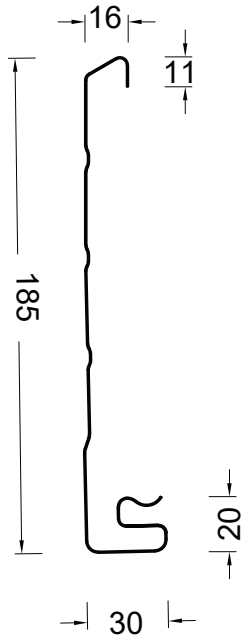
DIMOND 185MM FASCIA

PRODUCT TECHNICAL STATEMENT



DESCRIPTION

Dimond fascia systems are available in 147mm, 165 Paltec and 185mm high panel, rollformed in 0.55mm BMT steel with a prepainted finish only. Unpainted Zincalume® product, copper, stainless steel and aluminium are not available.

The outer edge of the soffit lining is retained at the bottom of the fascia in a rolled Soffit groove.

RECOMMENDED PRODUCT/DESIGN USE

- **Applications:** Residential
- **Materials:** Steel 0.55mm G300
- **Colours:** Available in pre-painted ColorCote®, MagnaFlow™ and COLORSTEEL® MAXAM™ 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..

DESIGN INSTRUCTIONS

- The set out of the fascia support brackets are shown in the construction details below
- Level or sloping soffits up to 22.5º pitch can be used
- When installing Fascia rafter brackets for a shingle roof over ply on top of the rafters the set out is

Dimension	"B"
147 Fascia Panel	145mm

Using these dimensions allows for a 10-12mm gap between the fascia and underside of the ply

* Refer to construction detail below for the location of Dimension "B"

- Brackets are nailed or screw fixed to the soffit bearer or rafters when sloping soffits are used
- The recommended set out heights must be maintained to avoid birds and vermin entering the roof space
- Steel products should not come into contact with concrete and must avoid dissimilar metal contact
- When selecting the gutter to use with the fascia system it is important to:

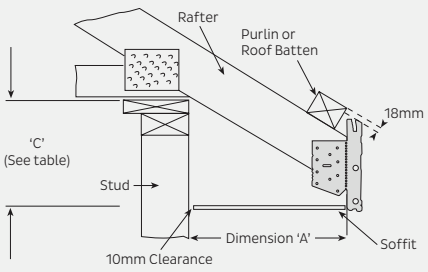
  i) Ensure the gutter with bracket can physically fit onto the fascia vertical face, laid to a fall of a minimum 1:500 and give an acceptable appearance. If not, select another smaller gutter size.

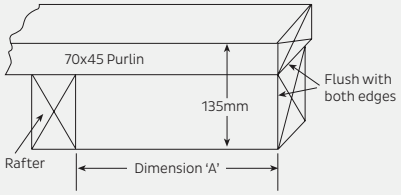
CONSTRUCTION INSTRUCTIONS

Selection of metal fascias needs to be made before the trusses are manufactured as the set-out dimension may vary between the different systems available.

- Builders must ensure the timber soffit bearers are correctly set out using the published guidelines for the roof type being used prior to the fascia installation
- Fascia brackets are nailed or screwed onto the soffit bearers to a level and true alignment using a string line
- 6m maximum length of fascia are then fitted to the fascia brackets, cut back in length where necessary, and lengths joined together using normal roofing practice with silicone sealant and 4mm diameter rivets at 150mm maximum centres. Corner soaker caps are fitted over the fascias and rivetted on to cover corner joints or can be mitred cut
- Metal fascia systems are required to be installed by specialist rainwater installers. Metal roofers do not normally install fascia
- We do not recommend, support or approve DIY installations. Specialist companies throughout New Zealand install Dimond fascia. Contact Dimond for a list of installers in your area. Phone 0800 DIMOND (0800 346 663).

GUIDELINE - METAL TILES AND METAL LONG RUN





Hip & Gable Roof - Eaves Detail

Soffit Width (mm)	300	450	600
Dimension 'A' (mm)	295	445	595

Notes:

- 90x45 soffit bearer used unless stated
- Soffit bearers fixed to right or left hand side of rafter
- 10mm clearance allowed for soffit

Gable End Detail

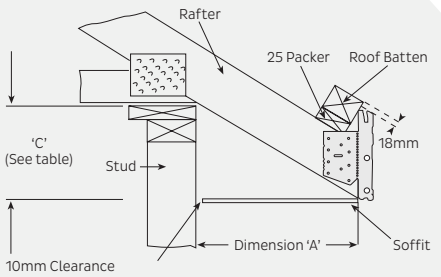
Soffit Width (mm)	300	450	600
Dimension 'A' (mm)	295	445	595

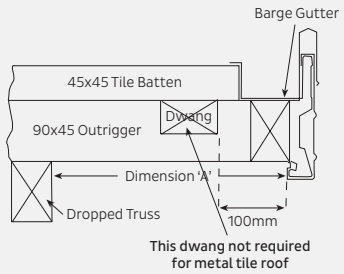
Roof Pitch (Degrees)	Drop Height - Dimensions 'C' (mm) Soffit Width (mm)			
	300	450	600	750
10	95	123	151	179
12.5	107	140	173	206
15	120	160	200	240
17.5	133	180	227	274
20	145	200	254	309
22.5	160	222	284	346
25	173	243	313	383
27.5	188	266	344	422
30	202	289	376	463
35	233	338	443	548
40	268	394	520	646
45	306	456	606	756
50	350	529	708	887

Notes for Installers

1. To ensure birds cannot enter the roof space, there should be no gap between the bottom purlin and the back face of the gutter after the system has been installed.
2. NOTE: Soffit bearers are required on all hip corners and should be cut back 10mm.
3. Where loose fill insulation is used, the soffit must be blocked off at the top plate to prevent the insulation coming into contact with the metal fascia.
4. Coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding. Check with your nearest distributor for further details.

GUIDELINE - CONCRETE TILE ROOFS





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Notes:
Finished timber sizes
- Outriggers 70mm x 45mm
- Fly rafter 90mm x 45mm

Roof Pitch (Degrees)	Drop Height - Dimensions 'C' (mm) *See note 8 Soffit Width (mm)			
	300	450	600	750
17.5	107	154	201	248
20	118	173	227	282
22.5	133	195	257	319
25	145	215	285	355
27.5	160	238	316	394
30	173	260	347	434
35	202	307	412	517
40	235	361	487	613
45	271	421	571	721

Notes for Installers

1. To ensure birds cannot enter the roof space, there should be no gap between the bottom purlin and the back face of the gutter after the system has been installed.
2. 185mm External Fascia and Gutter is not suitable on concrete tile roofs with sloping soffits.
3. NOTE: Soffit bearers are required on all hip corners and should be cut back 10 mm.
4. The use of concrete tiles on the barge ends is not a recommended practice as highlighted in the New Zealand Metal Roof and Wall Cladding Code of Practice Section 4.9 Compatibility. No warranty is offered by Pacific Coil Coaters or New Zealand Steel for corrosion if this method is used. A barrier is required to isolate between the concrete tile and fascia and all installations require a bottom batten around the edge of the roof line to support the concrete tile independently, so the concrete tile does not rest on the fascia.
5. The use of concrete tiles on the barge ends is not a recommended practice as highlighted in the New Zealand Metal Roof and Wall Cladding Code of Practice Section 2 under Compatibility 2.7.2. Should people continue to use this method then there should be some sort of barrier between the two and there is no warranty offered by Pacific Coil Coaters or New Zealand Steel for corrosion if this method is used. This means that all installations should have a bottom batten around the edge of the roof line rather than let the concrete tile rest on the fascia.
6. Where loose fill insulation is used, the soffit must be blocked off at the top plate to prevent the insulation coming into contact with the metal fascia.
7. Coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding. Check with your nearest distributor for further details.

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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Date of issue: June 2025, Version: V02.300625

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