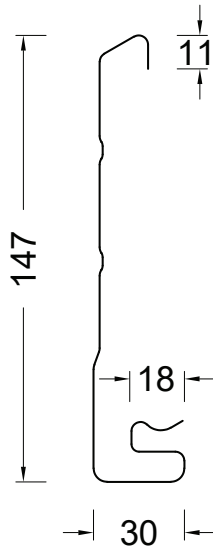


## PRODUCT TECHNICAL STATEMENT



### 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 Zinalume® 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](http://www.colorcote.co.nz) and [www.colorsteel.co.nz](http://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](http://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 22.5° 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"

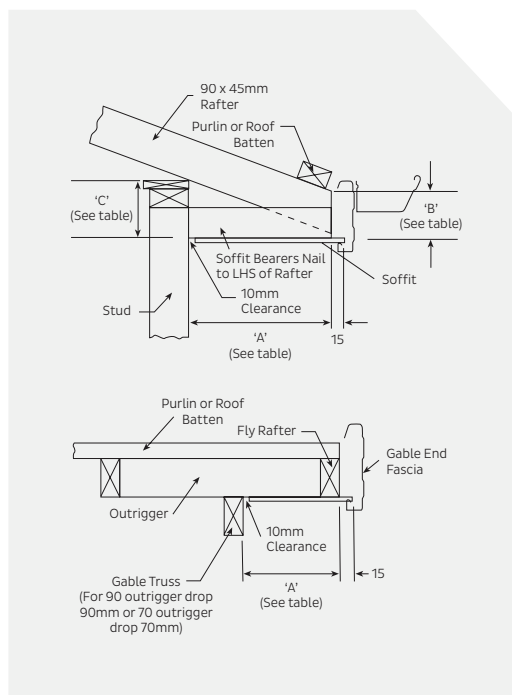
- Brackets are nailed or screw fixed to the soffit bearer or rafters when sloping soffits are used
- The recommended set out heights must be maintained to avoid birds and vermin entering the roof space
- Steel products should not come into contact with concrete and must avoid dissimilar metal contact
- 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 | 750 | 900 |
|--------------------|-----|-----|-----|-----|-----|
| Dimension 'A' (mm) | 295 | 445 | 595 | 745 | 895 |

#### Notes:

- A 10mm soffit clearance has been allowed for:
- Soffit bearers fixed to LEFT hand side of rafter (viewed from outside)
- Based on minimum Purlin/Roof batten thickness of 45mm

### Gable End Detail

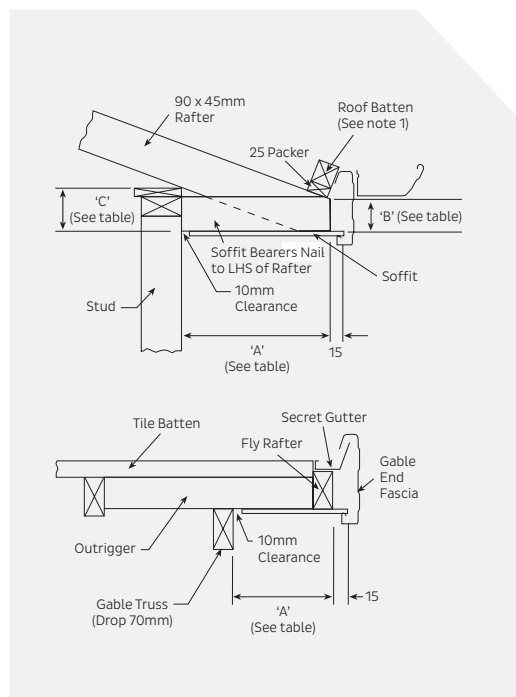
| Soffit Width (mm)  | 300 | 450 | 600 |
|--------------------|-----|-----|-----|
| Dimension 'A' (mm) | 295 | 445 | 595 |

| Roof Pitch (Degrees) | Drop Height - Dimensions 'C' (mm) *See note 8 Soffit Width (mm) |     |     |     |     |            |
|----------------------|-----------------------------------------------------------------|-----|-----|-----|-----|------------|
|                      | 300                                                             | 450 | 600 | 750 | 900 | B" Toe Cut |
| 10                   | 60                                                              | 86  | 113 | 139 | 165 | 95         |
| 12.5                 | 72                                                              | 105 | 138 | 171 | 205 | 95         |
| 15                   | 87                                                              | 127 | 167 | 208 | 248 | 96         |
| 17.5                 | 98                                                              | 145 | 192 | 240 | 287 | 96         |
| 20                   | 113                                                             | 167 | 222 | 277 | 331 | 97         |
| 22.5                 | 129                                                             | 191 | 253 | 315 | 377 | 101        |
| 25                   | 142                                                             | 212 | 282 | 352 | 422 | 105        |
| 30                   | 170                                                             | 257 | 344 | 430 | 516 | 109        |
| 35                   | 206                                                             | 311 | 416 | 521 | 626 | 116        |
| 40                   | 247                                                             | 373 | 499 | 625 | 751 | 122        |
| 45                   | 280                                                             | 420 | 580 | 730 | 880 | 129        |

#### 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. The 147 small panel fascia system is suitable for use with metal tiles and roofs with sloping soffits up to 22.5° roof pitch.
3. Over 25° roof pitch, a kickout may be required on all gable ends.
4. As an alternative to note 3, for gable end roofs, outriggers to be from finished timber sizes 70mm x 45mm i.e. gable end truss drop 70mm, avoiding kickouts up to 40° roof pitch.
5. NOTE: Soffit bearers are required on all hip corners and should be cut back 20mm to all free movement of the spouting.
6. Coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding.
7. 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. Check with your nearest distributor for further details.
8. Allows for a 16-18mm gap for easy fascia panel removal. If gap is not required dimensions will need to be altered.

## GUIDELINE - CONCRETE TILE ROOFS



### Hip & Gable Roof - Eaves Detail

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

#### Notes:

- A 10mm soffit clearance has been allowed for:
- Soffit bearers fixed to LEFT hand side of rafter (viewed from outside)
- Based on minimum Purlin/Roof batten thickness of 47mm

### Gable End Detail

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

#### 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 | 900 | B" Toe Cut |
| 17.5                 | 72                                                              | 119 | 166 | 213 | 261 | 85         |
| 20                   | 84                                                              | 141 | 195 | 250 | 305 | 88         |
| 22.5                 | 101                                                             | 163 | 226 | 288 | 350 | 91         |
| 25                   | 117                                                             | 187 | 257 | 327 | 397 | 95         |
| 30                   | 150                                                             | 237 | 323 | 410 | 497 | 100        |
| 35                   | 187                                                             | 292 | 397 | 502 | 607 | 112        |
| 40                   | 227                                                             | 353 | 479 | 605 | 731 | 124        |
| 45                   | 275                                                             | 425 | 575 | 725 | 875 | 135        |

### 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. The 147 small panel fascia is not suitable on concrete tile roofs with sloping soffits.
3. For concrete tile gable end roofs, outriggers to be from finished timber sizes 70mm x 45mm i.e. gable end truss drop 70mm.
4. Over 25° roof pitch, a kickout is required on all gable ends.
5. NOTE: Soffit bearers are required on all hip corners and should be cut back 20mm to allow free movement of the spouting.
6. 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.
7. Coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding.
8. 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. Check with your nearest distributor for further details.
9. Allows for a 16-18mm gap for easy fascia panel removal. If gap is not required dimensions will need to be altered.

## DESIGN DETAILS

Design details covering residential & commercial are available at [www.dimond.co.nz](http://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](http://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](http://www.building.govt.nz)

**NZMRM:** New Zealand Metal Roofing and Wall Cladding Code of Practice – [www.metalroofing.org.nz](http://www.metalroofing.org.nz)

**NZMRM:** Installation Guide – Metal Longrun Roofing and Cladding – [www.metalroofing.org.nz](http://www.metalroofing.org.nz)

**RANZ:** How to Guides – [www.ranz.co.nz](http://www.ranz.co.nz)

**Pacific Coil Coaters:** Choose the Right Roof  
[www.colorcote.co.nz](http://www.colorcote.co.nz)

**Pacific Coil Coaters:** Maintenance Schedule  
[www.colorcote.co.nz](http://www.colorcote.co.nz)

**Pacific Coil Coaters:** Environmental Product Declaration  
[www.colorcote.co.nz](http://www.colorcote.co.nz)

**New Zealand Steel:** Environmental Categories, Warranty & Product Maintenance Recommendations Brochure  
[www.colorsteel.co.nz](http://www.colorsteel.co.nz)

**New Zealand Steel:** Maintenance Recommendations Bulletin – [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

**New Zealand Steel:** Installers Guide [www.colorsteel.co.nz](http://www.colorsteel.co.nz)

**BRANZ:** Good Profiled Metal Roofing and Wall Cladding – [www.branz.co.nz](http://www.branz.co.nz)

**MBIE:** Guide to tolerances, materials and workmanship in new residential construction 2015 – [www.mbie.govt.nz](http://www.mbie.govt.nz)

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**Email Technical Team:** [rooftech@dimond.co.nz](mailto:rooftech@dimond.co.nz)

**Address:** 48 Victoria Street, Onehunga, Auckland 1061

**Place of Manufacture:** Aotearoa New Zealand



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## Contact us

**Dimond Roofing®**

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or 0800 DIMOND

[dimond.co.nz](https://dimond.co.nz)

