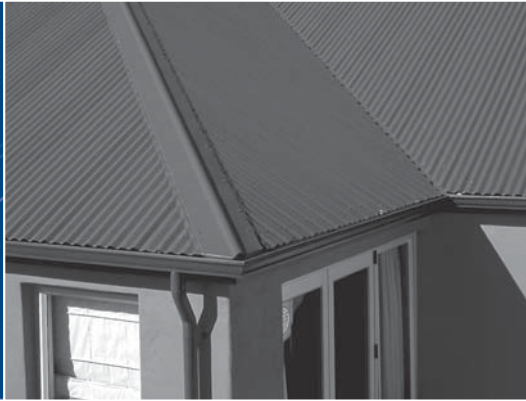
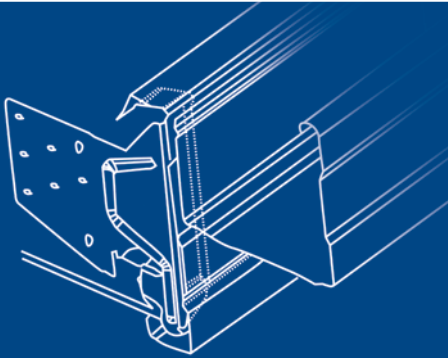




EXTERNAL FASCIA AND GUTTER SYSTEMS

CONSTRUCTION DETAILS

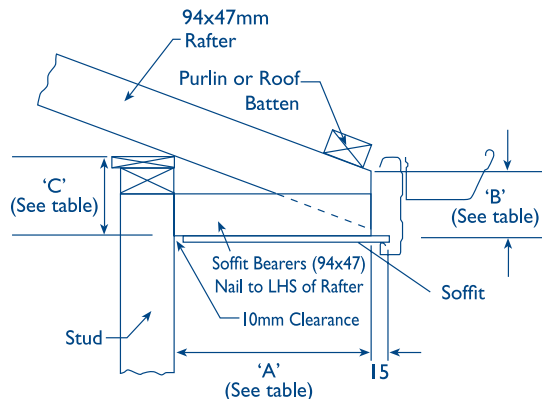


EXTERNAL

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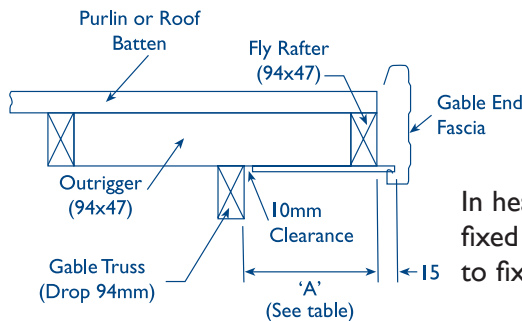
3.4.4.1 FASCIA 147 INSTALLATION GUIDE

METAL TILES AND METAL ROOFS



Hip & Gable Roof – Eaves Detail

Soffit Width mm	300	450	600	750	900
Dimension 'A' mm	295	445	595	745	895
Note:					
• A 10mm soffit clearance has been allowed for.					
• Soffit bearers fixed to LEFT hand side of rafter (viewed from outside).					



Gable End Detail

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

In heavy snowfall areas, brackets and snow straps must be fixed at 450mm centres. In high wind areas it is advisable to fix the brackets at 600-700mm centres maximum.

Roof Pitch (Degrees)	Drop Heights – Dimension 'C' (mm)					Dim 'B' (mm) Toe Cut Gable Roof Only
	Soffit Width (mm)					
	300	450	600	750	900	
10	60	90	120	150	180	105
12.5	72	107	142	177	212	105
15	83	123	163	204	244	105
17.5	98	145	192	240	287	105
20	113	167	222	277	331	105
22.5	129	191	253	315	377	105
25	145	215	284	354	424	104
30	170	255	340	425	510	109
35	206	309	412	515	618	115
40	247	370	494	617	741	123
45	280	420	560	700	840	133

Dim 'B' (mm) for hip roofs is 105mm.

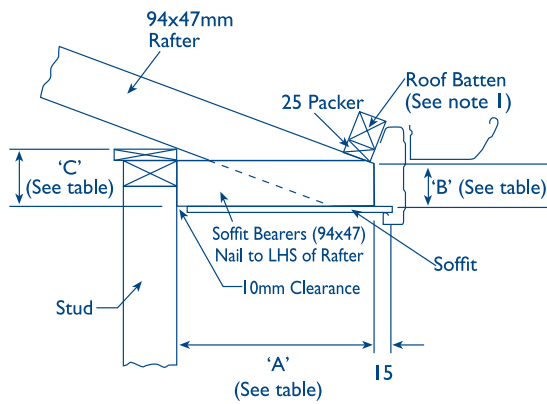
Notes for Installers

- To ensure birds can not 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.
- The 147 small panel fascia system is suitable for use with metal tiles and roofs with sloping soffits up to 22.5° roof pitch.
- For gable end roofs, outriggers to be from finished timber sizes 94mm x 47mm i.e. gable end truss drop 94mm.
- Over 25° roof pitch, a kickout is required on all gable ends.
- NOTE: Soffit bearers are required on all hip corners and should be cut back 20mm to allow free movement of the spouting.
- Zincalume coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding.
- 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.

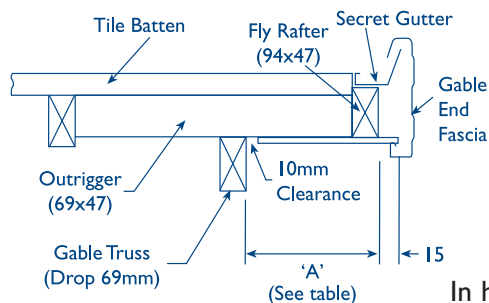
3.4.4.2 FASCIA 147 INSTALLATION GUIDE

CONCRETE TILE ROOFS



Hip & Gable Roof – Eaves Detail

Soffit Width mm	300	450	600
Dimension 'A' mm	295	445	595
Note:			
<ul style="list-style-type: none"> A 10mm soffit clearance has been allowed for. Soffit bearers fixed to LEFT hand side of rafter (viewed from outside). 			



Gable End Detail

Soffit Width mm	300	450	600
Dimension 'A' mm	295	445	595
Note: Finished timber sizes			
<ul style="list-style-type: none"> Outriggers 69mm x 47mm Fly rafter 94mm x 47mm 			

In heavy snowfall areas, brackets and snow straps must be fixed at 450mm centres. In high wind areas it is advisable to fix the brackets at 600-700mm centres maximum.

Roof Pitch (Degrees)	Drop Heights – Dimension 'C' (mm)					Dim 'B' (mm) Toe Cut Gable Roof Only
	Soffit Width (mm)					
	300	450	600	750	900	
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

Dim 'B' (mm) for hip roofs is 80mm.

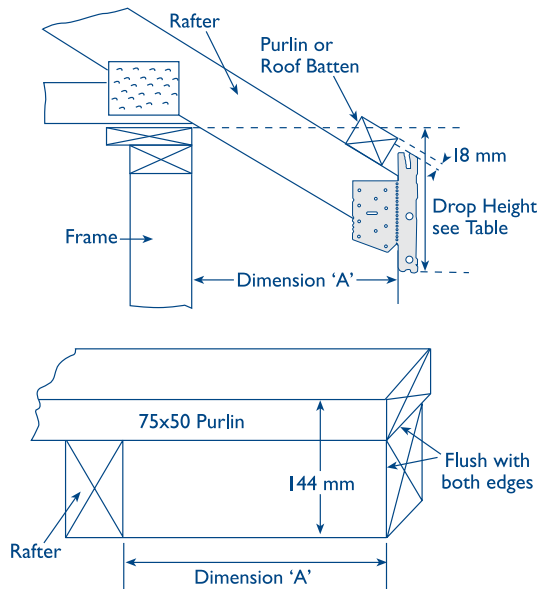
Notes for Installers

- To ensure birds can not 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.
- The 147 small panel fascia is not suitable on concrete tile roofs with sloping soffits.
- For concrete tile gable end roofs, outriggers to be from finished timber sizes 69mm x 47mm i.e. gable end truss drop 69mm.
- Over 25° roof pitch, a kickout is required on all gable ends.
- NOTE: Soffit bearers are required on all hip corners and should be cut back 20mm to allow free movement of the spouting.
- Zincalume coated gutters should have a minimum fall of at least 1:500 and should not have permanent ponding.
- 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.

EXTERNAL FASCIA 185 mm INSTALLATION GUIDE

METAL TILES AND METAL ROOFS



Hip & Gable Roof – Eaves Detail

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

Note:

- 94x47 soffit bearers used unless stated.
- Soffit bearers fixed to right or left hand side of rafter.
- 10 mm clearance allowed for soffit.

Gable End Detail

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

In heavy snowfall and wind areas, brackets and snow straps must be fixed at 450 mm centres. In medium wind areas it is advisable to fix the brackets at 600 mm centres.

Roof Pitch (Degrees)	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

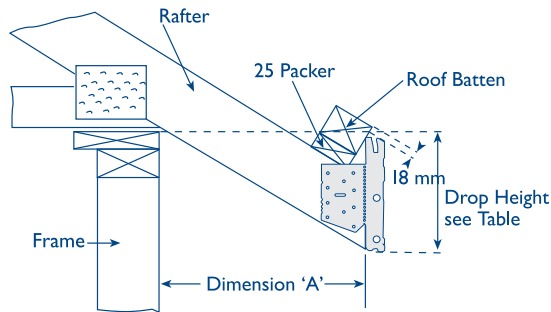
Notes for Installers

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 10 mm.
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.

Check with your nearest distributor for further details.

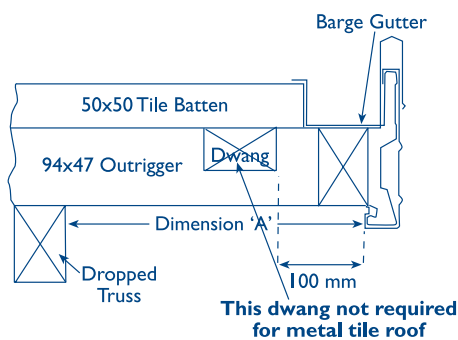
EXTERNAL FASCIA & GUTTER INSTALLATION GUIDE

CONCRETE TILE ROOFS



Hip & Gable Roof – Eaves Detail

Soffit Width mm	300	450	600
Dimension 'A' mm	295	445	595
Note: <ul style="list-style-type: none"> • 94x47 soffit bearers used unless stated. • Soffit bearers fixed to right or left hand side of rafter. • 10 mm clearance allowed for soffit. 			



Gable End Detail

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

In heavy snowfall and wind areas, brackets and snow straps must be fixed at 450 mm centres. In medium wind areas it is advisable to fix the brackets at 600 mm centres.

Roof Pitch (Degrees)	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. Colorflo 185 mm 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 NZ Roofing and 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.
5. 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.

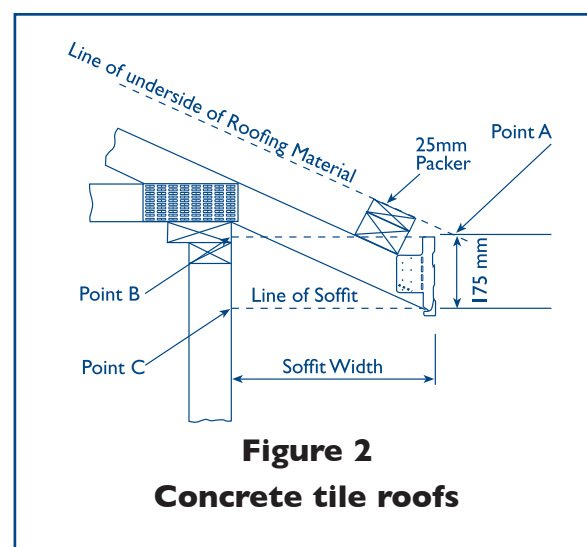
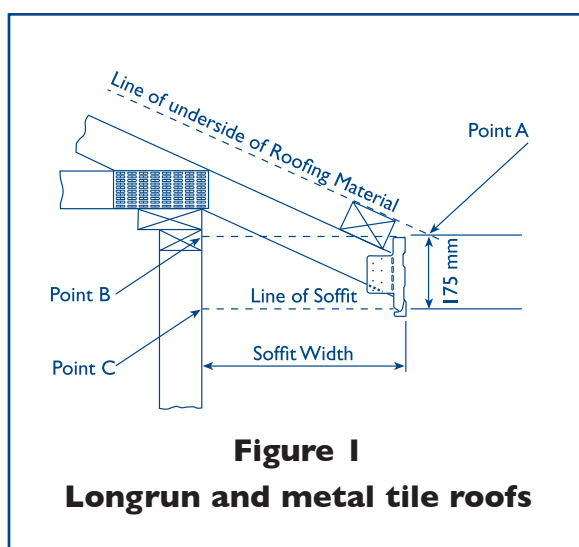
Check with your nearest distributor for further details.

EXTERNAL FASCIA 195 mm INSTALLATION GUIDE

The Soffit Height (refer Figure 1)

Determine the soffit height by the following method:

1. Establish the line of the underside of the roofing material.
 - (a) **For longrun and metal tile roofs** a line parallel to the rafter at a distance to suit the purlin/batten.
 - (b) **For concrete tile roofs** a line parallel to the rafter at a distance to suit the purlin/batten (see Figure 2).
2. Strike a horizontal line from the outside of the wall framing to intersect the line of the underside of the roofing material.
 - (a) The length of this horizontal line should be the soffit width plus 30 mm (e.g. 450 mm + 30 mm = 480 mm).
 - (b) Where this horizontal line intersects the underside of the roof material line is point A.
3. Where the horizontal line intersects the wall framing is point B.
4. From point B measure down the wall framing 175 mm to establish point C.
 - (a) This point is the line of the underside of the soffit sprocket.
 - (b) The soffit lining is fitted below this line.
5. Strike a horizontal line from point C to the rafter end.
 - (a) If the line intersects the rafter, cut the toe of the rafter off at this line.
 - (b) **Note:** The toe-cut is usually performed by the precutter.
6. Check that the soffit line is acceptable in relation to windows and door openings or any beams that may be located in the soffit.



EXTERNAL FASCIA 195 mm INSTALLATION GUIDE

Gable End Set Out for Profiled Metal Roofs

1. Cut the purlin to the required soffit width.
2. Fix a 100x50 fly rafter under and flush with the end of the purlin. Barge brackets will be nailed onto the fly rafter to support the barge.
3. Note: In all cases gable ends will require a packer under the rafter to accommodate the various pitches.

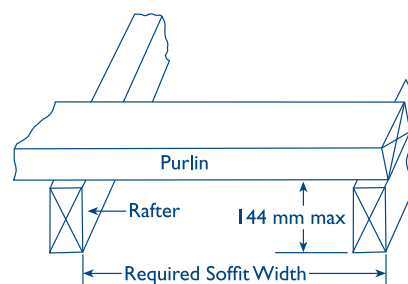


Figure 3

Gable End Set Out for Concrete Roofs

1. Set out the framework with 100x50 outriggers extending from last rafter out over gable end (dropped truss). The outrigger should extend past the gable by the width of the soffit. The outriggers should be spaced at no greater than 900 mm centres.
2. Fix dwangs between and 60 mm in from the end of the outriggers. These dwangs will catch the end of the tile battens.
3. The tile battens should be cut flush with the outside edge of the dwang.
4. The barge brackets will be nailed to the side of the outriggers to support the barge.

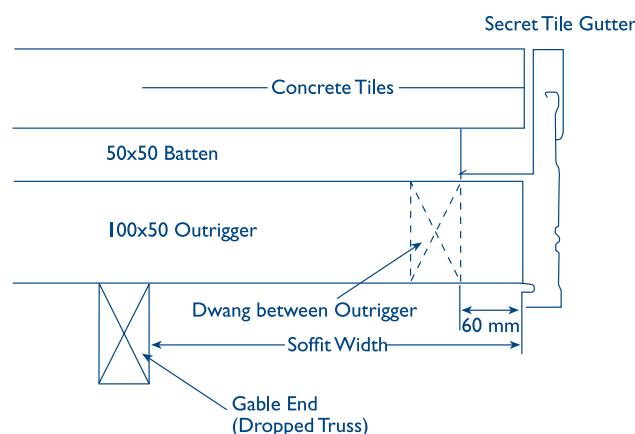


Figure 4