



PATIOS

INSTALLATION MANUAL

NEW GENERATION OUTBACK® GABLE PATIO

The New Generation Outback® Gable Patio system has been designed and engineered to generate modern and versatile structures that provide more design flexibility and increased spanning capabilities.

The New Generation Outback® Gable Patio system integrates new bracketry, new fixings, new design options, and new accessories, to produce the best gable patio product on the market.

This product has been designed with D.I.Y. in mind for ease of installation.

BEFORE YOU START

It is important to check your Local Government Authority requirements before the installation of your new Outback® Gable Patio System.

It is the builder's responsibility to ensure any existing structure that an Outback® Gable Patio is being attached to is adequately reinforced to accommodate the additional loads imposed by the patio.

Read these instructions, along with any supporting documentation provided for your Outback® Gable Patio, thoroughly before starting your project and refer to them constantly during each stage of construction.

Lay out the components in order of assembly on the ground and check them against the delivery note. The 'Component Index' section in this guide will assist in identifying each part of your Outback® Gable unit.

Mark out the overall area of your patio location and ensure it is free from obstructions. Ensure there is reasonable access for materials and working space. Consider the drainage and disposal of run-off water.

Check the post and beam positions on the ground.

If you do not have all the necessary tools or information, contact Stratco for advice.

STRATCO OUTBACK® GABLE PATIO

VERANDAH | PATIO | CARPORT - INSTALLATION MANUAL

TOOLS AND HARDWARE REQUIRED

- | | | |
|-------------------------|-------------------------------|-----------------------------------|
| • Safety Glasses | • Tin Snips | • Ø16mm Drill Bit |
| • Cut-Proof Gloves | • Post-Hole Digger | • Ø20mm Drill Bit |
| • Ear Plugs - Ear Muffs | • Drill | • Ø12mm Masonry Drill Bit |
| • Safety Boots | • Driver Extension Bit Holder | • File |
| • Tape Measure | • 5/16" Hex-Head Driver | • Rivet Gun |
| • Marker or Pen | • 3/8" Hex-Head Driver | • Silicone Gun |
| • Spirit Level | • T30 Torx Driver | • Spanners or Hex-Head Socket Set |
| • String Line | • Ø3.2mm Drill Bit | • Adjustable Construction Props |
| • Plumb Line | • Ø5.0mm Drill Bit | • Clamps |
| • Hack Saw | • Ø12mm Drill Bit | • Ladders |

HELPFUL TIPS

- Leave the plastic coating on members until they are about to be fastened to the structure. This will help prevent scratching of the colour finish.
- Double check all measurements and drilling locations before proceeding.
- Regularly check framework for squareness and vertical alignment to make sure the unit has not moved during construction.
- If using Cooldek roofing, use a vacuum cleaner when cutting panels to prevent polystyrene beads polluting the surrounding environment.
- Leave all construction props and/or bracing in-place until concrete is set or columns are bolted to the slab.
- Sweep the roof and clean gutters after the completion of work. Ensure any swarf and rivet stubs are removed as they can cause unsightly rust stains.

CONTENTS

UNIT CONFIGURATIONS

Stand-Alone Gable	A
Split Width Gable.....	B
Equal-Return Gable.....	C
Unequal Return	D
Intersecting Gable	E
Hip-End & Dutch Hip-end	F

1 - ATTACHING TO EXISTING STRUCTURE

WALL ATTACHED

(WITH BOX GUTTER MOUNTING BRACKET)

Wall Preparation	2
Beam Preparation	2
Beam Installation	2

WALL ATTACHED

(WITH BEAM-TO-WALL BRACKETS) (REAR ATTACHED ONLY)

Wall Preparation	3
Beam Installation	3

FASCIA ATTACHED

(WITH SUSPENSION BRACKETS) (REAR ATTACHED ONLY)

Fascia Preparation.....	3
Beam Installation	4

FASCIA ATTACHED

(WITH RAFTER STRENGTHENING BRACKETS TO TIMBER FRAMED HOUSE)

Fascia Preparation.....	5
Beam Preparation	5
Beam Installation	5 - 7

FASCIA ATTACHED

(WITH RAFTER STRENGTHENING BRACKETS TO STEEL FRAMED HOUSE)

Fascia Preparation.....	8
Beam Preparation	8
Beam Installation	8 - 9

STEEL FRAMING REINFORCEMENT

Reinforcement Detail Drawings	10
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ATTACHMENT COVER PIECE

(FOR RAFTER STRENGTHENING BRACKETS)

Installation	11
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FASCIA ATTACHED

(WITH RISER BRACKETS)

Fascia Preparation.....	12
Beam Installation	12 - 13

2 - BEAM PREPARATION

Small Beam Cap	2
Large Beam Cap.....	2
Rafter-to-Beam Brackets	3
Internal Beam-to-Beam Brackets	4
External Beam-to-Beam Brackets	5

3 - RAFTER SET ASSEMBLY

Knuckle Assembly	
120 Outback Beam Rafters	2
150 Outback Beam Rafters	2
Ridge to Rafter Brackets.....	3
Collar Ties.....	3 - 4

4 - COLUMN INSTALLATION

Footing Preparation (into concrete)	2
Footing Preparation (onto concrete).....	2
68 Post Installation	3
SHS Column Installation	4

5 - RAFTER INSTALLATION

Rafter to Long Header	
Bracket Installation.....	2
Rafter Installation	3
Rafter to Short Header	
Bracket Installation.....	4
Rafter Installation	5
Rafter to Beam.....	6 - 8
Strut Post Installation	9

6 - RIDGE INSTALLATION

Ridge Beam Installation.....	2
Ridge Extrusion Installation.....	2
Gable Overhang Installation.....	3

7 - PURLIN INSTALLATION

Purlin Bracket Spacing.....	2
Purlin Brackets.....	2
Purlin Installation.....	3

8 - GUTTER INSTALLATION

Downpipe Outlets.....	2
Stop-Ends.....	3
Outback Deck & CGI Gutter Installation.....	3
Small Beam Cap Cooldek Gutter Installation.....	4
Large Beam Cap Cooldek Gutter Installation.....	5
Header Beam Perimeter Gutter.....	6

9 - ROOFING INSTALLATION

Roof Sheet Preparation.....	2
Outback Deck.....	3
CGI.....	4 - 5
Polycarb.....	6 - 7
Cooldek Classic.....	7 - 10
Cooldek CGI.....	10 - 13
Gutter Straps.....	13 - 14

10 - FINAL FIXING

Fixing to Concrete Slab.....	2
Securing into Concrete.....	2

11 - INFILL PANEL INSTALLATION

Strut Installation.....	2
Fixing Flashing Installation.....	2
Corner Gusset Installation.....	3
Fibre Cement & Multiwall Preparation.....	4
Fibre Cement Installation.....	4
Multiwall Installation.....	5
Aluminium Slat Preparation.....	6
Aluminium Slat Installation.....	6 - 7

Z-Drip Flashing Installation.....	7 - 8
Cover Flashing Installation.....	9
Infill Capping.....	10 - 12
Traditional Infill Installation.....	13 - 16

12 - FLASHING INSTALLATION

Ridge Capping.....	2
Barge Trim.....	3 - 5
Barge Capping (Traditional).....	6

13 - RIDGE BULKHEAD INSTALLATION

Downlight Preparation.....	2
Fan Preparation.....	2
Bulkhead Support Bracket Installation.....	3
Bulkhead Flashing Installation.....	4
Endcap Installation.....	5
Gable Rafter Fan Bracket Installation.....	5
Ridge Beam Outback Fan Bracket Installation.....	6

14- SPLIT WIDTH GABLE

Full Width Internal Header - Small Beam Cap Layout.....	2
Bracket Installation.....	3
Full Width Header - Large Beam Cap Layout.....	4
Bracket Installation.....	5
Partial Header - Small Beam Cap Layout.....	6
Bracket Installation.....	7
Partial Header - Large Beam Cap Layout.....	8
Bracket Installation.....	9
Minor Ridge Beam Installation.....	10
Shared Rafter Bracket Installation.....	11
Minor Rafter Installation (Full Width Header).....	12
Minor Rafter Installation (Partial Header).....	13
Side Cap Base Flashing Installation.....	14 - 15
Gutter Installation.....	16
Roofing Installation.....	16 - 17
Infill Cover Flashing Installation.....	18 - 19
Infill Panel Installation.....	20 - 21
Side Cap Cover Flashing Installation.....	22
Minor Ridge Cap Installation.....	23
Traditional Barge Capping.....	24

15 - EQUAL RETURN GABLE

Valley-to-Internal Corner Plate (Small Beam Cap).....	2
Valley-to-Internal Corner Plate (Large Beam Cap)	3
External Corner Cover	4
Rafter Set Assembly.....	5
Hip-Valley Ridge-to-Rafter Bracket Installation	5
Valley-to-Internal Corner SHS Connection.....	6
Valley Rafter Bracket Installation	7
Hip Rafter Bracket Installation	8
Hip-Valley Rafter Set Installation.....	9
Hip Rafter Detail.....	10
Valley Rafter Detail.....	11
Hip-Valley Ridge Beam.....	12
Hip-Valley Extrusion.....	12
Hip-Valley Ridge Beam Fixing	13
Valley Purlin Brackets.....	13
Hip Purlin Brackets	14
Valley Purlin Installation	14
Hip Purlin Installation.....	15
Valley Support Flashing	15
Hip Support Flashing.....	17
Hip Cover Flashing.....	17
Valley Gutter Preparation	20
Gutter Mitres	21
Valley Rafter Roofing.....	22
Hip Rafter Roofing	24
Hip Capping Installation.....	26
45° Ridge Bulkhead Preparation.....	27
45° Ridge Bulkhead End-Cap Installation.....	27

16 - UNEQUAL RETURN GABLE

Knuckle Assembly	2
Valley to Ridge Rafter Bracket.....	3
Rafter Bracket Installaiton.....	4
Split Rafter to Ridge Bracket.....	5
Valley Rafter to Beam Bracket.....	6
Valley Rafter Installation	7
Valley to Ridge Supports	7
Valley to Beam Supports.....	8
Minor Ridge Beam - Ridge Extrusion Installation	8
Valley Support Flashing Installation.....	9

Valley Gutter Preparation	9
Valley Gutter Installation (Outback Deck & CGI)	11
Valley Gutter Installation (Cooldek)	12
Roofing Installation	13
Ridge Bulkhead Installation	14

17 - INTERSECTING GABLE

Ridge Rafter Bracket Installation	2
Intersecting Ridge Beam Installation.....	2
Split Rafter Installation.....	3
Valley to Intersecting Ridge Bracket Installation	3
Valley Rafter Installation	4
Valley to Apex Suport Installation	4
Ridge Extrusion Preparation.....	4
Ridge Extrusion Installation	5
Ridge Bulkhead Installation	6

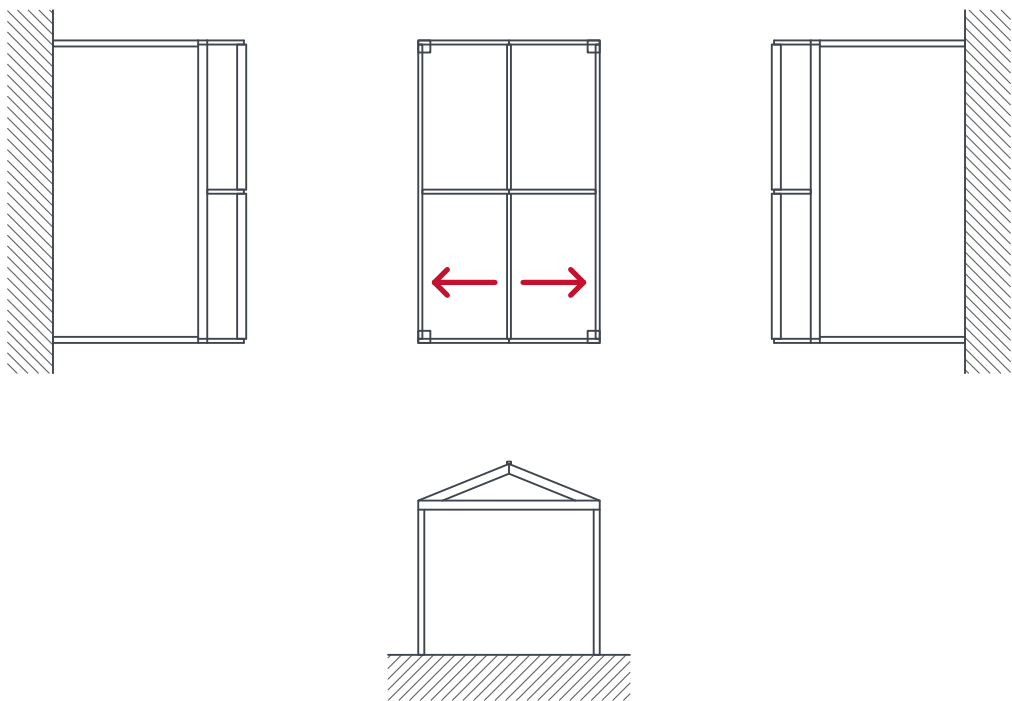
18 - HIP END

Rafter Set Assembly.....	2
Hip End Bracket Installation	2
Hip End Rafter Installation	3
Hip Support Flashing Preparation	4
Hip Cover Flashing Preparation.....	4
Hip Support Flashing Installation	5
Hip Cover Flashing Installation	6
Roofing Installation	7
Hip End Flashing Preparation.....	9
Hip End Flashing Installation	10

COMPONENT INDEX	Z-1
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CONFIGURATIONS

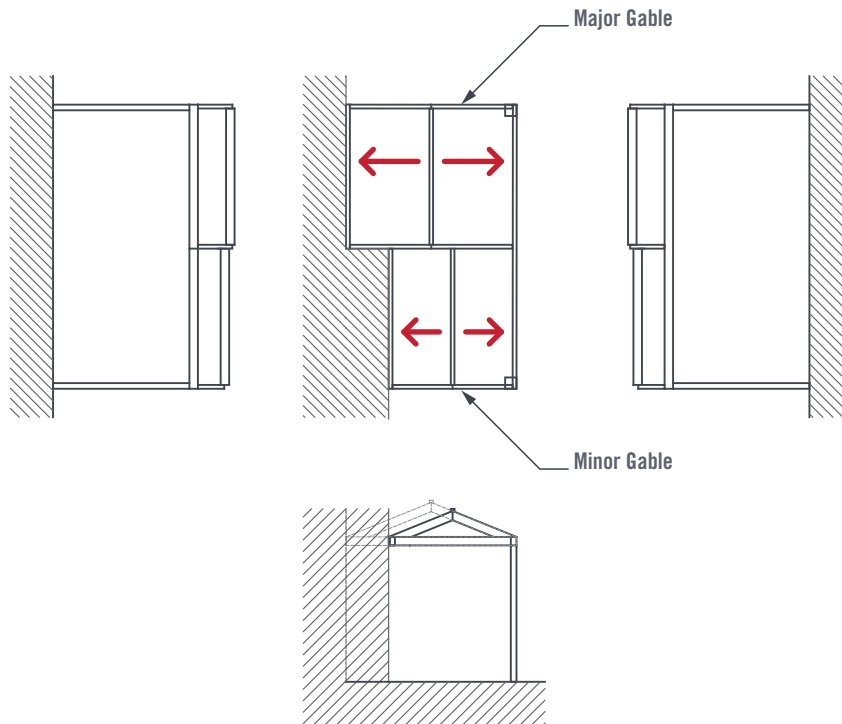
STAND-ALONE GABLE



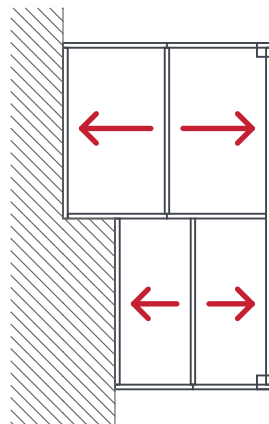
FREESTANDING		ALCOVE (TYPE 1)	
REAR-ATTACHED		ALCOVE (TYPE 2)	
SIDE-ATTACHED		REAR-ATTACHED (PARTIAL ATTACHMENT)	
CORNER (TYPE 1)		SIDE-ATTACHED (PARTIAL ATTACHMENT)	

CONFIGURATIONS

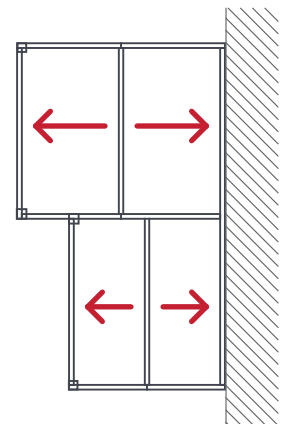
SPLIT-WIDTH GABLE



SPLIT ATTACHMENT BEAM

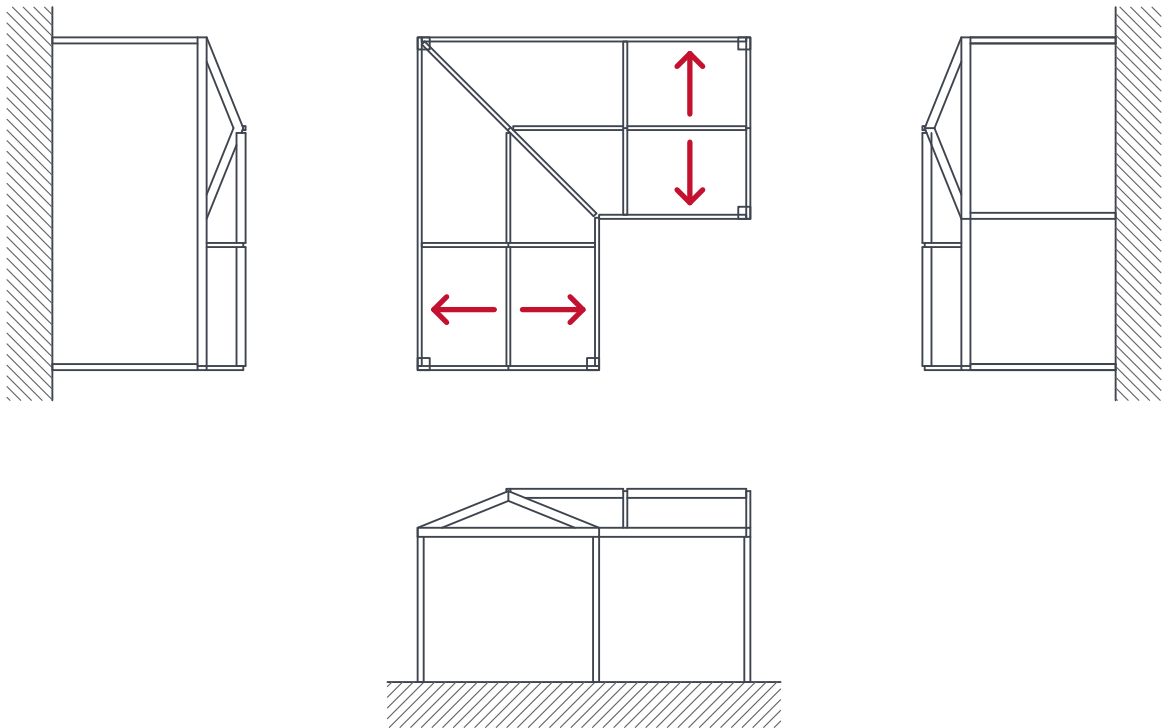


CONTINUOUS ATTACHMENT BEAM



CONFIGURATIONS

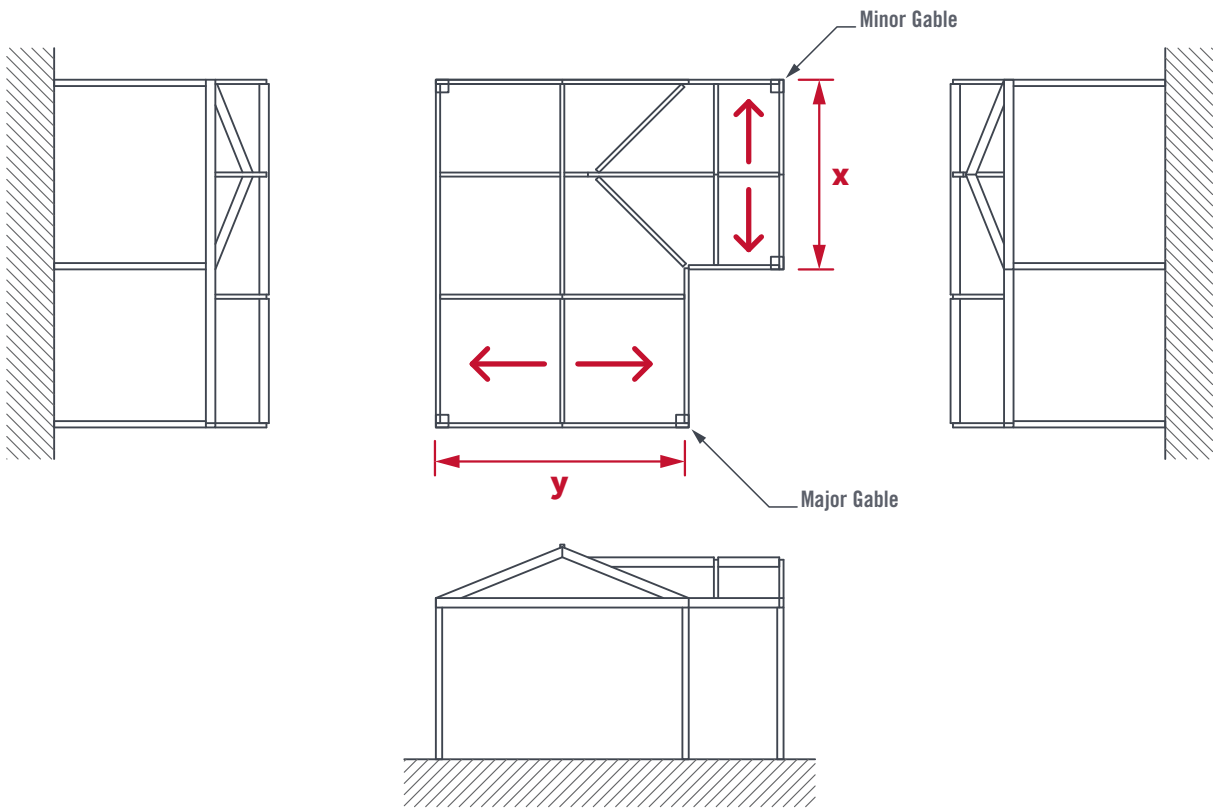
EQUAL-RETURN GABLE

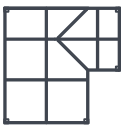
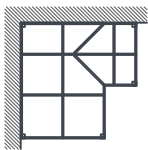
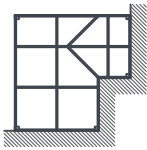
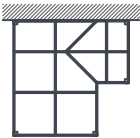
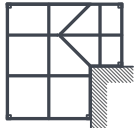
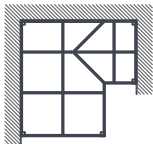
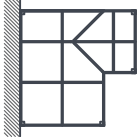


FREESTANDING		CORNER (TYPE 3)	
REAR-ATTACHED		CORNER (TYPE 4)	
SIDE-ATTACHED		ALCOVE (TYPE 1)	
CORNER (TYPE 1)		ALCOVE (TYPE 2)	
CORNER (TYPE 2)			

CONFIGURATIONS

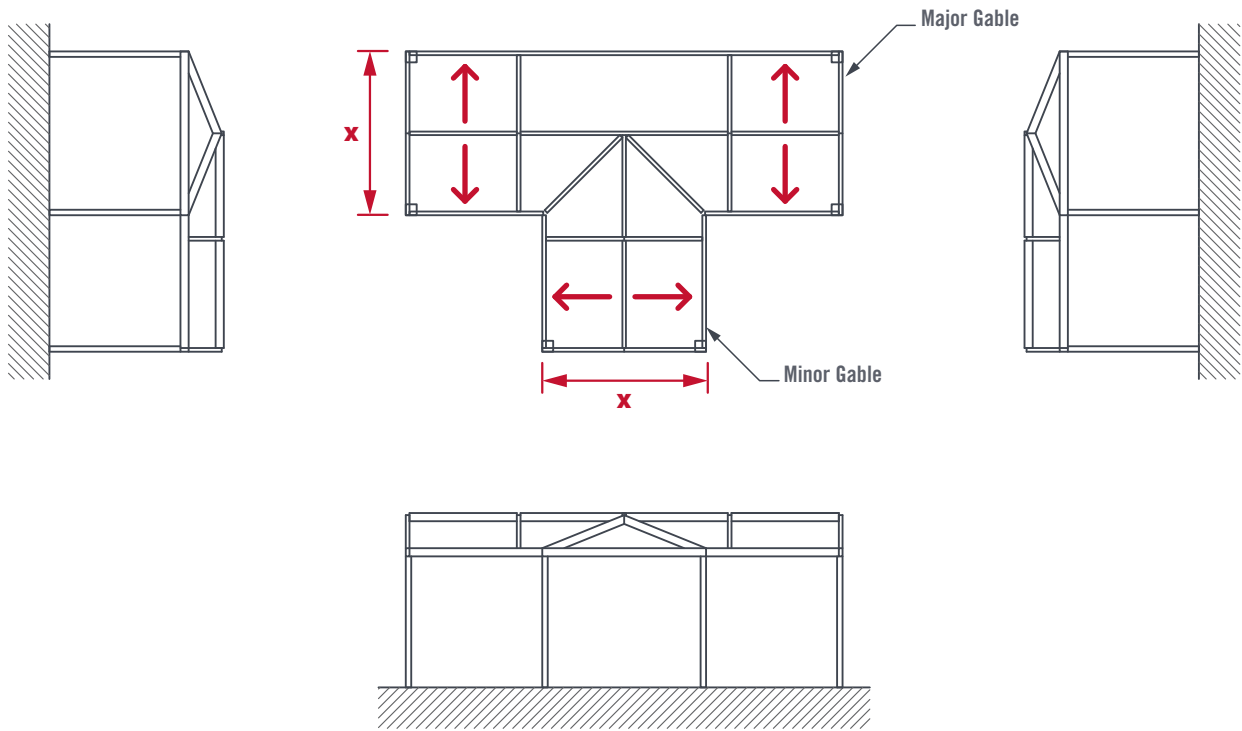
UNEQUAL-RETURN GABLE



FREESTANDING		CORNER (TYPE 1)		CORNER (TYPE 4)	
REAR-ATTACHED		CORNER (TYPE 2)		ALCOVE (TYPE 1)	
SIDE-ATTACHED		CORNER (TYPE 3)		ALCOVE (TYPE 2)	

CONFIGURATIONS

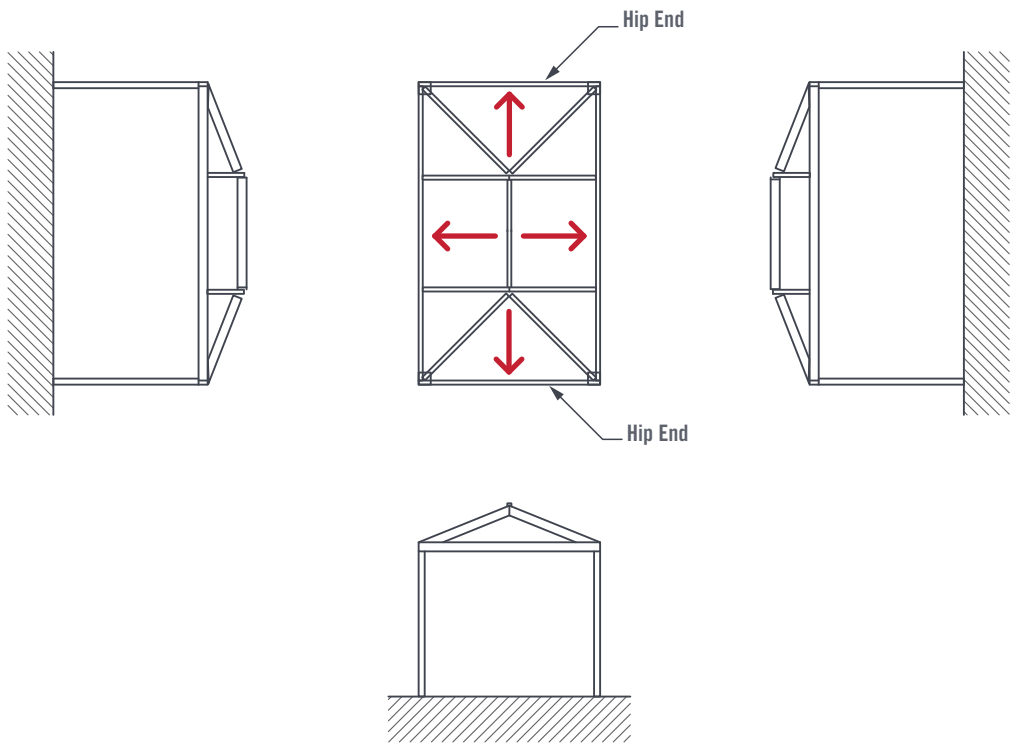
INTERSECTING GABLE

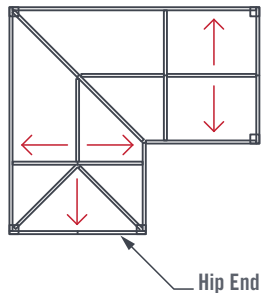
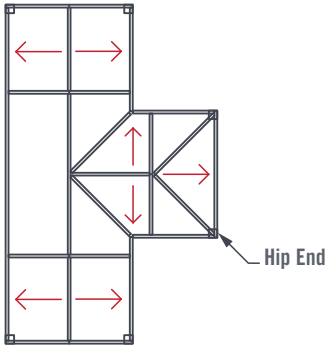
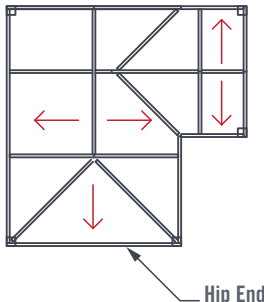
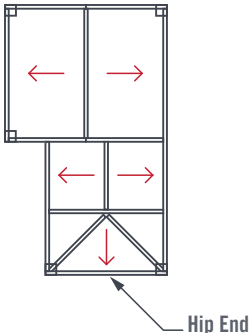


FREESTANDING		CORNER (TYPE 3)		ALCOVE (TYPE 4)	
REAR-ATTACHED		CORNER (TYPE 4)		ALCOVE (TYPE 5)	
SIDE-ATTACHED		ALCOVE (TYPE 1)		ALCOVE (TYPE 6)	
CORNER (TYPE 1)		ALCOVE (TYPE 2)			
CORNER (TYPE 2)		ALCOVE (TYPE 3)			

CONFIGURATIONS

GABLE HIP END



EQUAL RETURN GABLE	 The diagram shows a square footprint with a central gable and a hip roof. Red arrows indicate the direction of water flow: upwards from the center of the roof towards the eaves, and outwards from the center towards the sides. A label 'Hip End' with an arrow points to the bottom corner of the roof structure.	INTERSECTING GABLE	 The diagram shows a square footprint with a central gable and a hip roof. Red arrows indicate the direction of water flow: upwards from the center of the roof towards the eaves, and outwards from the center towards the sides. A label 'Hip End' with an arrow points to the bottom corner of the roof structure.
UNEQUAL RETURN GABLE	 The diagram shows a square footprint with a central gable and a hip roof. Red arrows indicate the direction of water flow: upwards from the center of the roof towards the eaves, and outwards from the center towards the sides. A label 'Hip End' with an arrow points to the bottom corner of the roof structure.	SPLIT WIDTH GABLE	 The diagram shows a square footprint with a central gable and a hip roof. Red arrows indicate the direction of water flow: upwards from the center of the roof towards the eaves, and outwards from the center towards the sides. A label 'Hip End' with an arrow points to the bottom corner of the roof structure.

1. ATTACHING TO EXISTING STRUCTURE

ATTACHING TO EXISTING STRUCTURE WALL ATTACHED (WITH BOX GUTTER WALL MOUNTING BRACKET)

WALL PREPARATION

Measure and mark the location of the Outback Box Gutter Wall Mounting Bracket on the wall, taking into consideration the position of the Attachment Beam and the unit height (Figure 1.0).

Mark and drill 4x Ø12mm holes using the Outback Box Gutter Wall Mounting Bracket as a template.

Fix the Outback Box Gutter Wall Mounting Bracket to the wall using M12 screwbolts or chemset anchors with minimum 65mm embedment, installed in accordance with manufacturers requirements.

BEAM PREPARATION

Measure and mark mounting hole locations on the Attachment Beam, 60mm from the bottom of the Beam for both 120mm and 150mm Outback Beam (Figure 1.0).

Drill holes in the beam using a Ø13mm drill bit. Enlarge to a Ø16mm hole on the inside of the unit (Figure 1.0).

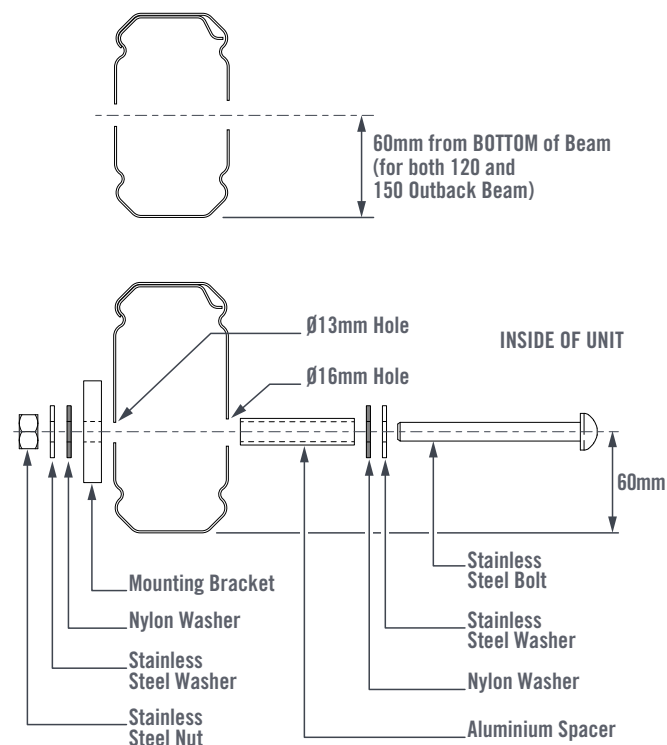


FIGURE 1.0 - STAINLESS STEEL ATTACHMENT BOLT CONFIGURATION

BEAM INSTALLATION

Lift the Beam into position and support using construction props.

Insert M12 bolts with aluminium spacers into the beam from the inside of the unit and into the Mounting Bracket (Figures 1.1 to 1.3).

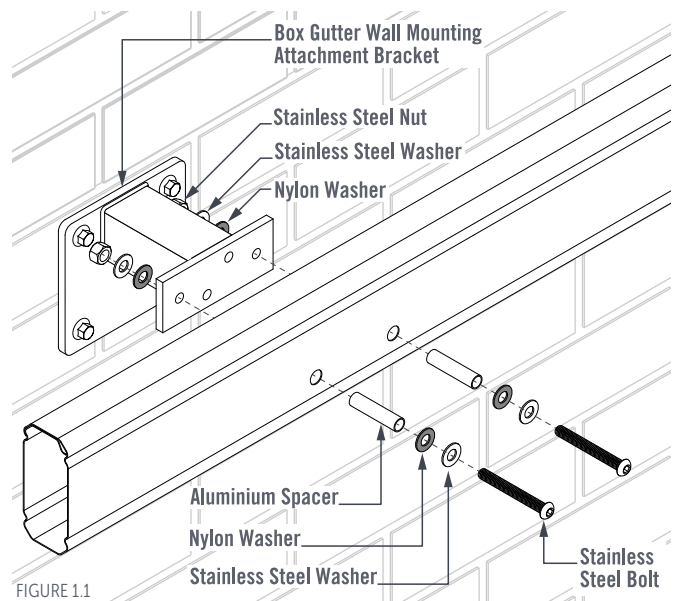


FIGURE 1.1

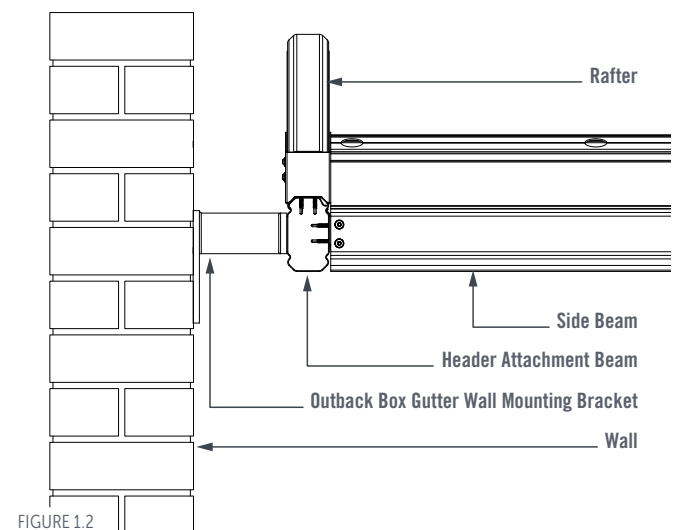


FIGURE 1.2

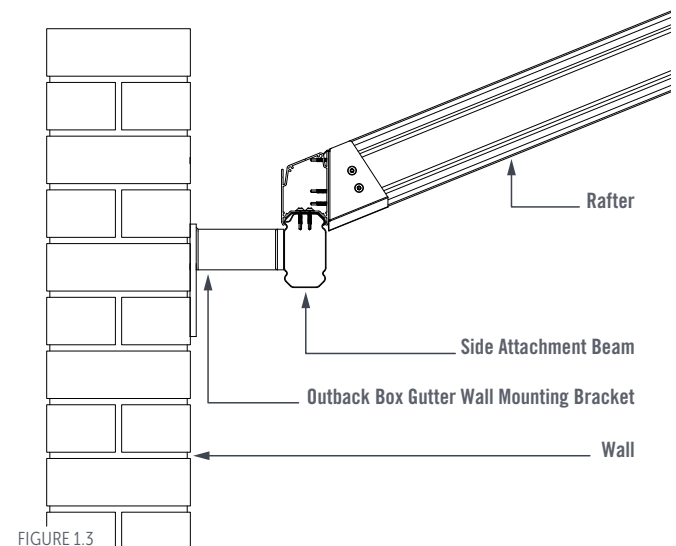


FIGURE 1.3

WALL ATTACHED (WITH BEAM-TO-WALL BRACKET)

WALL PREPARATION

Measure and mark the location of the Beam-to-Wall Bracket on the wall. Drill 2x Ø8mm holes in the marked locations.

Fix the Beam-to-Wall Bracket to the wall using 2x M8 Masonry Anchors, or 2x Ø8mm Screwbolts (Figure 1.4).

BEAM INSTALLATION

Lift the Side Beam into position and support it using construction props.

Fix the Outback Beam to the Beam-to-Wall Bracket using 4x Outback Self-Drilling screws (Figures 1.4 & 1.5).

Install the Header Beam between the Side Beams as instructed in the Rafter to Short Header section (Page 5.4).

Additional hold-down to the wall may be obtained using tie down brackets (Figure 1.6).

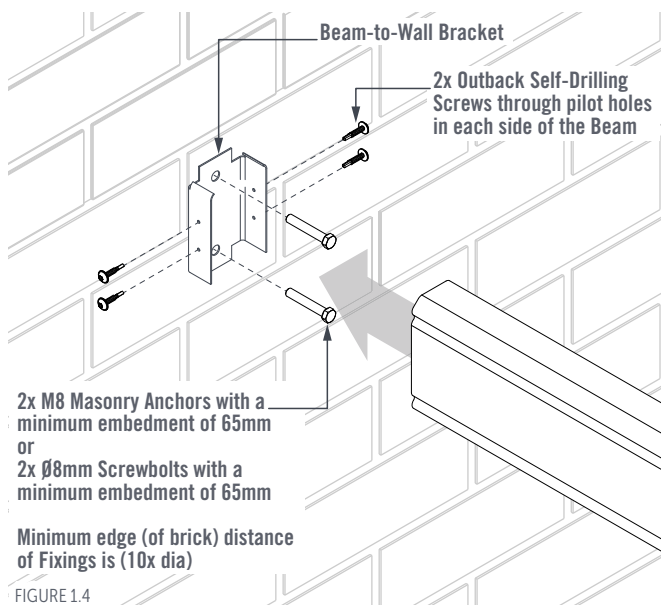


FIGURE 1.4

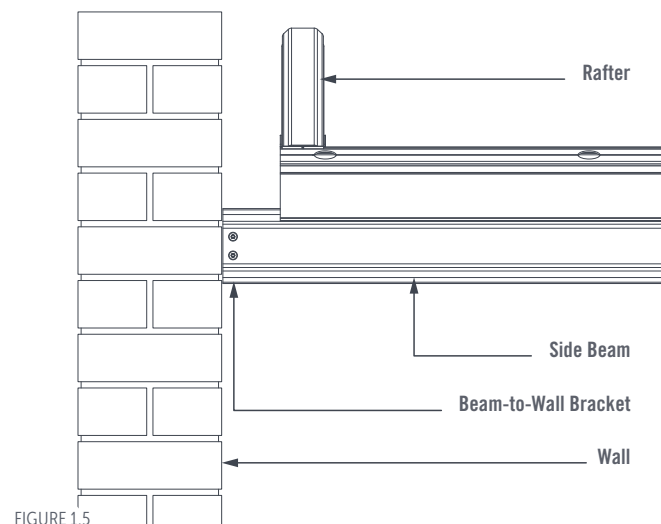


FIGURE 1.5

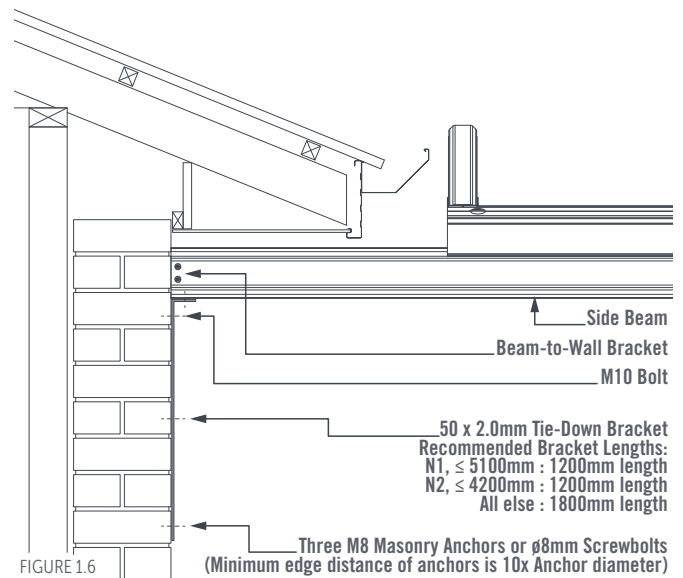


FIGURE 1.6

FASCIA ATTACHED (WITH SUSPENSION BRACKETS) (REAR-ATTACHED ONLY)

FASCIA PREPARATION

Measure and mark the location of the Suspension Brackets on the Fascia.

Lift the roof sheets and secure the Reinforcement Bracket to the rafters.

Reinforce as required.

Secure Suspension Brackets to both the Fascia and the reinforcement using a minimum 2x M6 bolts with washers (Figures 1.7 to 1.9).

It is recommended Extended Fascia Strengthening Brackets are located at maximum 1200mm centres for the full length of any Gable Opening and to the first house rafter either side of the Gable unit.

Reinforcing Channels are recommended to the first rafter either side of the Gable unit.

Additional strengthening may be required and it is the builder's responsibility to ensure rafters are adequately reinforced and appropriately tied down to walls.

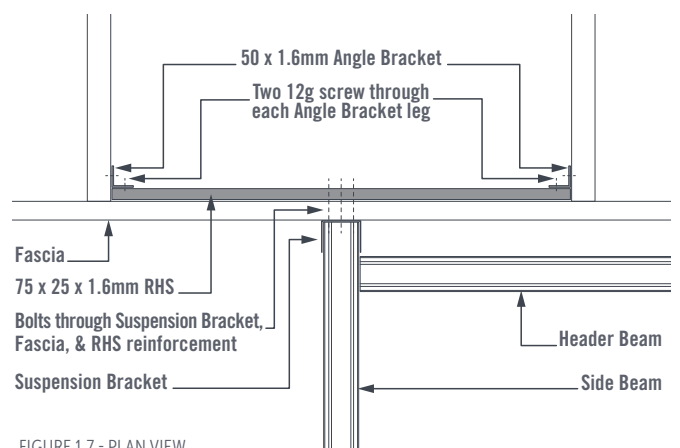
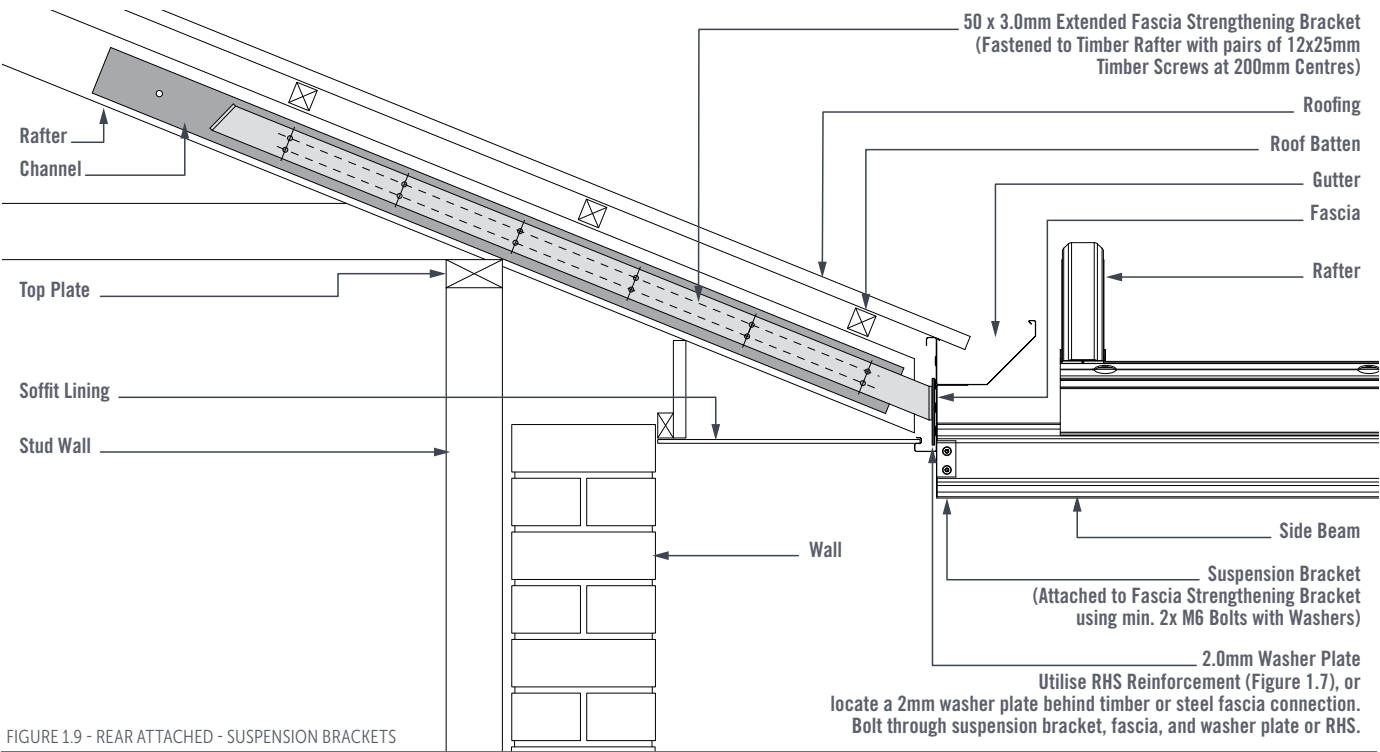
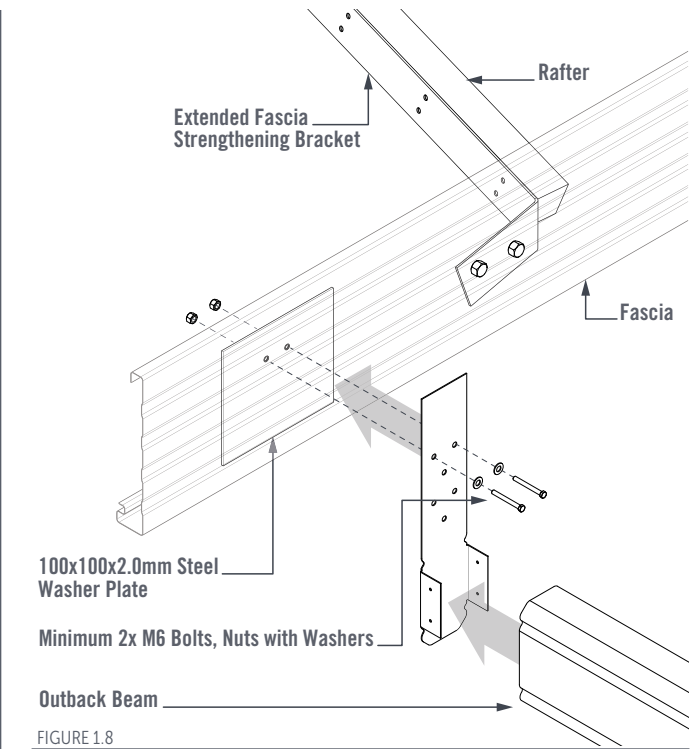


FIGURE 1.7 - PLAN VIEW

BEAM INSTALLATION

Lift the Side Beams onto the Suspension Brackets and secure using Outback Self Drilling Screws through the pilot holes provided (Figures 1.7 & 1.8).



FASCIA ATTACHED (WITH RAFTER STRENGTHENING BRACKETS) (TIMBER FRAMED HOUSE)

FASCIA PREPARATION

Measure, mark, and cut slots in the fascia for the Rafter Strengthening Brackets to protrude (Figures 1.11 & 1.13).

Lift the roof sheets and attach the Rafter Strengthening Brackets to the rafters (Figures 1.15 to 1.18).

BEAM PREPARATION

Measure and mark locations for the holes in the Outback Beam as per brackets.

Drill Ø13mm holes on the outside face of the Outback Beam, and Ø16mm holes on the inside face of the Outback Beam (Figure 1.10).

BEAM INSTALLATION

Lift the Beam into position and support using construction props.

Fix the Beam to the Rafter Strengthening Brackets using stainless steel attachment bolts, aluminium spacers and washers as per Figures 1.10, 1.12 & 1.14.

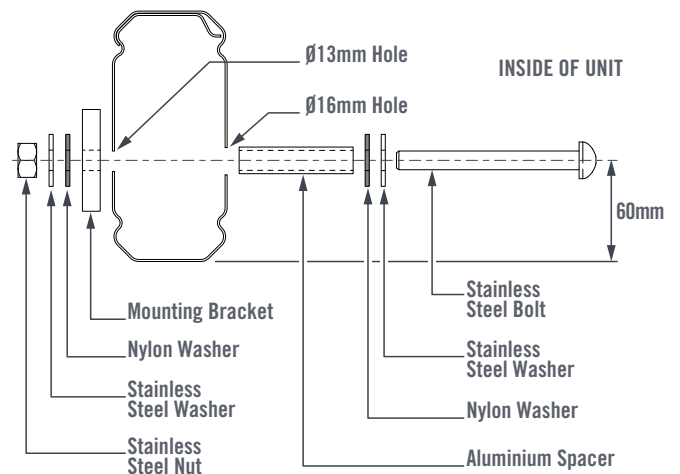


FIGURE 1.10

FIXED RAFTER STRENGTHENING BRACKET

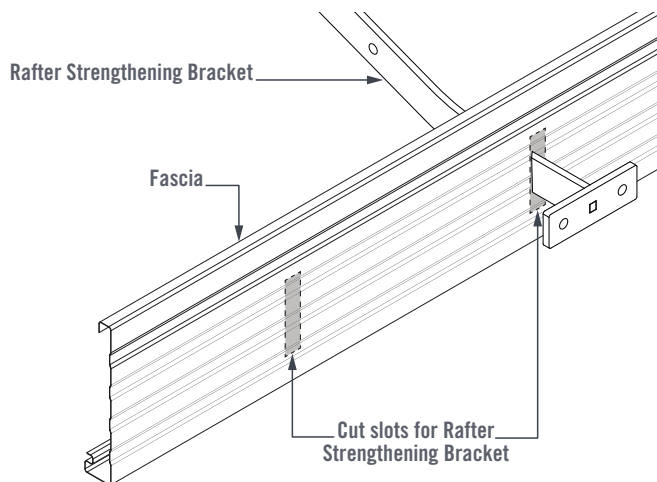


FIGURE 1.11

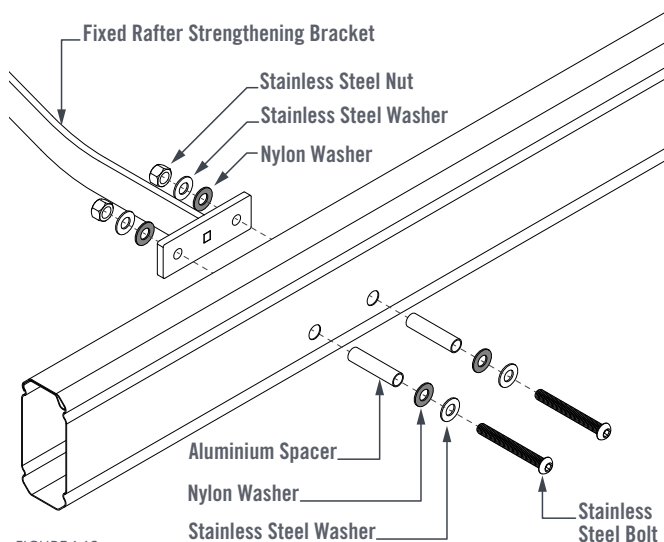


FIGURE 1.12

ADJUSTABLE RAFTER STRENGTHENING BRACKET

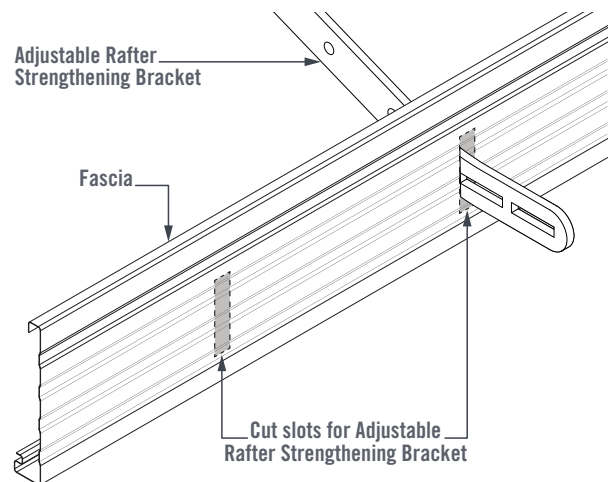


FIGURE 1.13

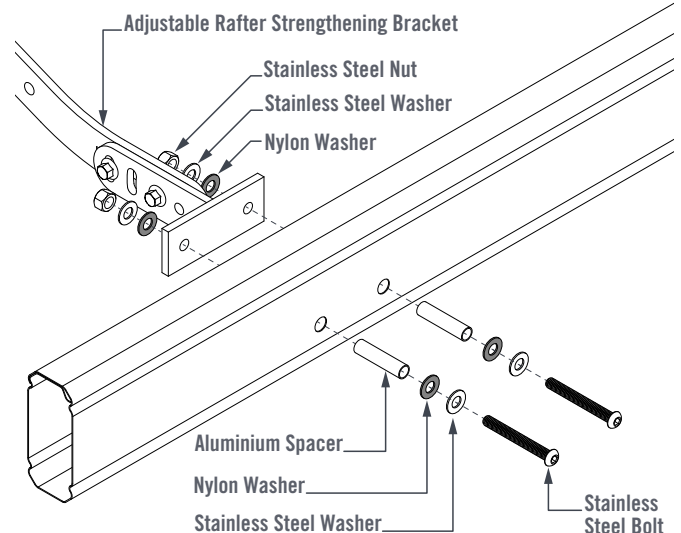


FIGURE 1.14

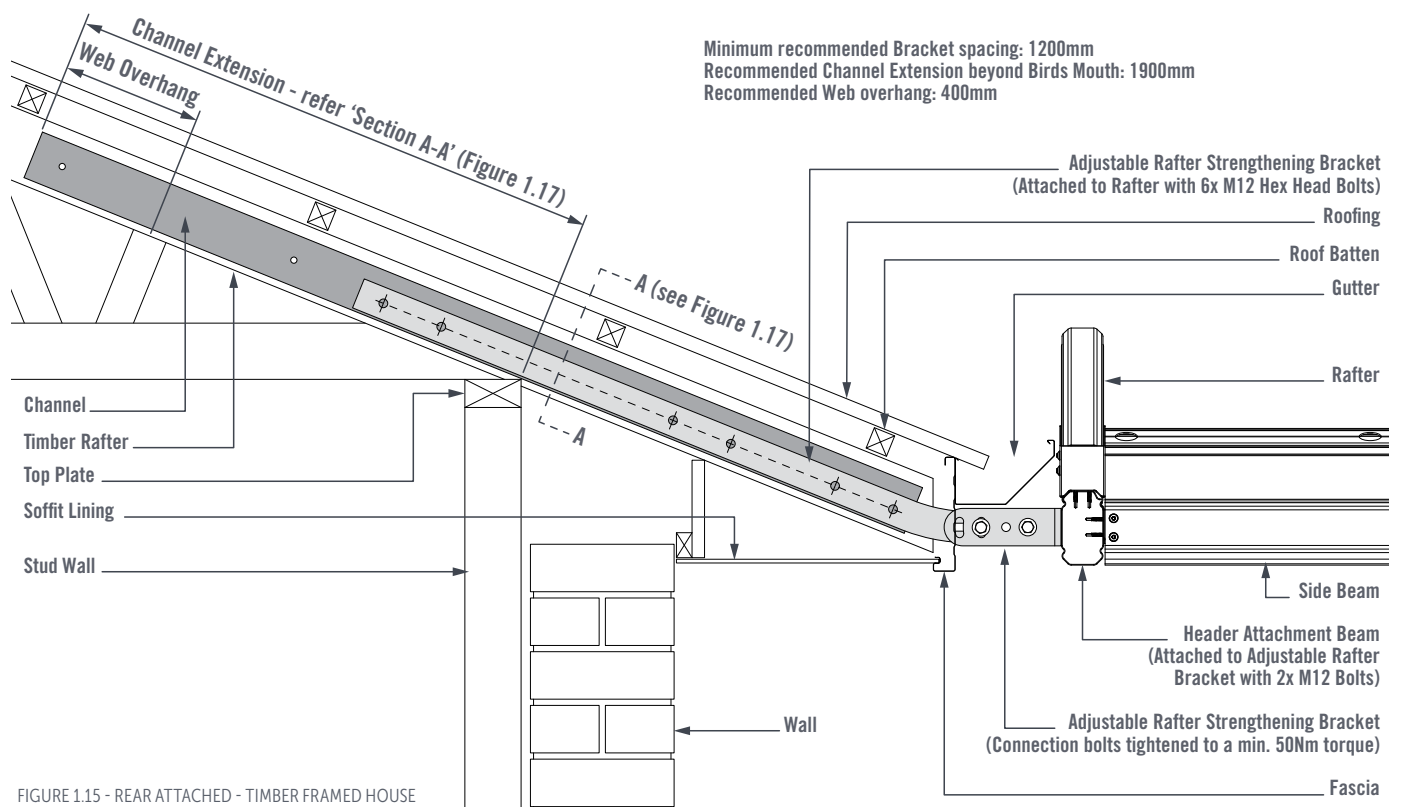


FIGURE 1.15 - REAR ATTACHED - TIMBER FRAMED HOUSE

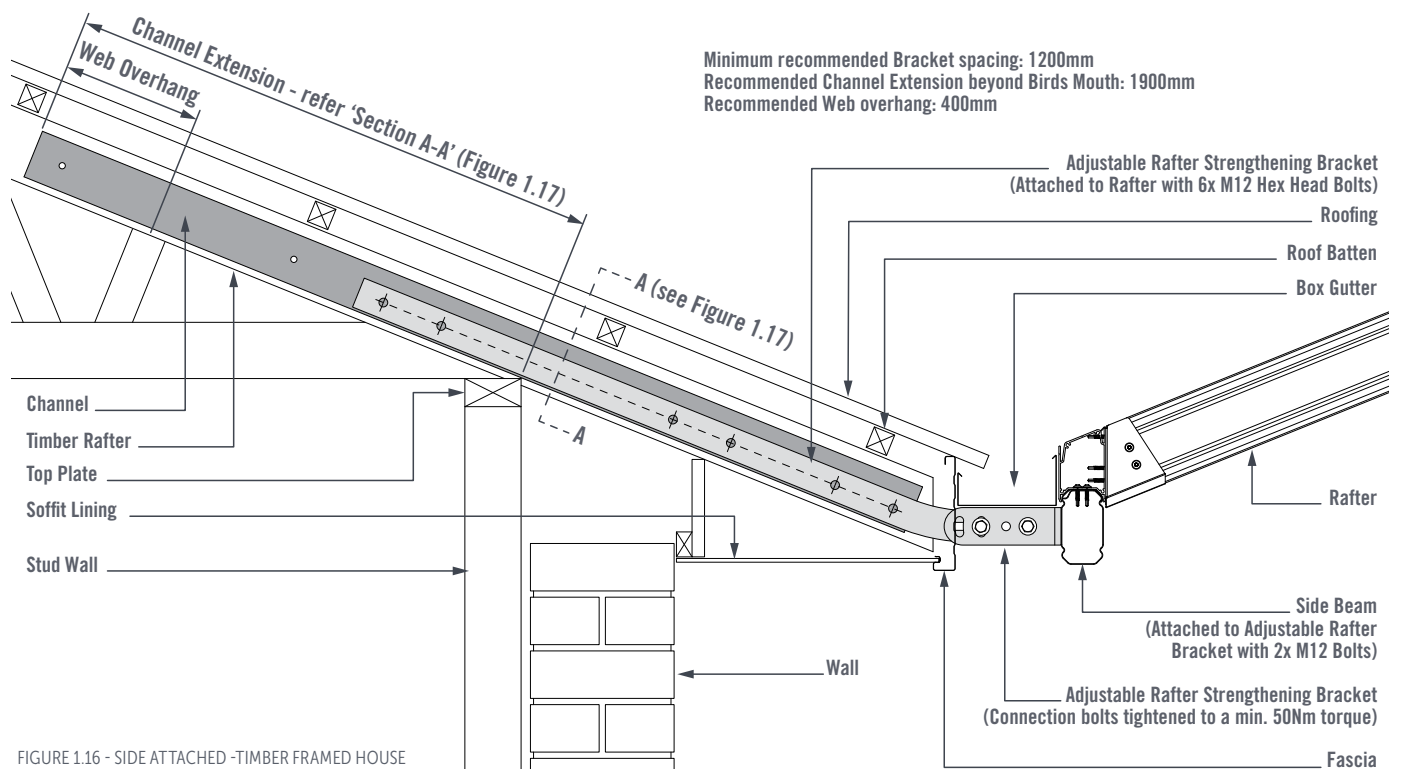


FIGURE 1.16 - SIDE ATTACHED - TIMBER FRAMED HOUSE

SECTION A-A
REINFORCED TIMBER RAFTER
SINGLE CHANNEL
(450MM EAVES OVERHANG)

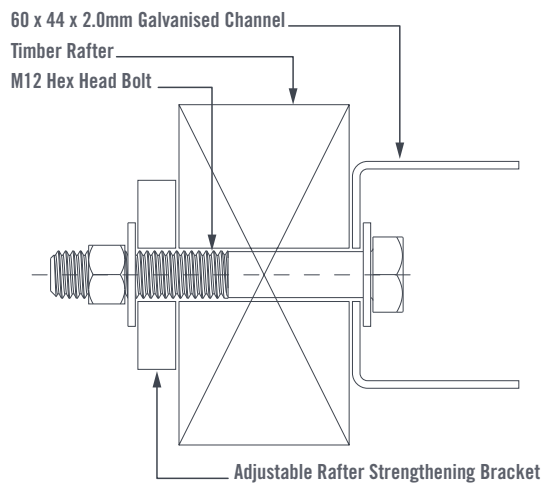


FIGURE 1.17

SECTION B-B
REINFORCED TIMBER RAFTER
DOUBLE CHANNEL
(600MM EAVES OVERHANG)

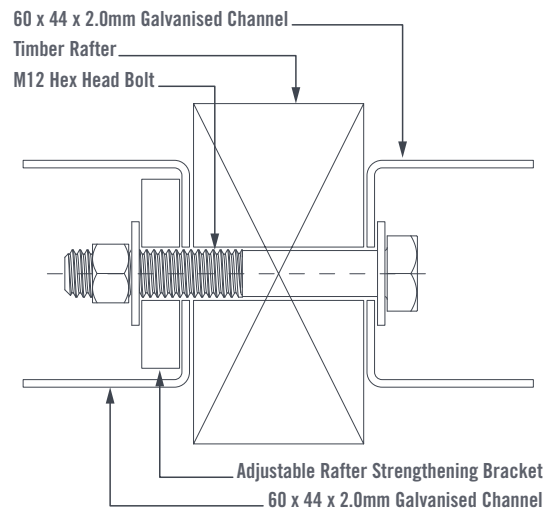


FIGURE 1.18

NOTE:

Additional strengthening may be required and it is the builder's responsibility to ensure rafters are adequately reinforced and appropriately tied down to walls.

FASCIA ATTACHED

(WITH RAFTER STRENGTHENING BRACKETS)
SIDE ATTACHED
(STEEL FRAMED HOUSE)

FASCIA PREPARATION

Measure and mark and cut slots in the fascia for the Rafter Strengthening Brackets to protrude (Figures 1.20 & 1.22). Lift the Roof sheets and fix the Rafter Strengthening Bracket to the Rafters (Figure 1.24 to 1.27).

BEAM PREPARATION

Measure and mark locations for the holes on the Outback Beam as per brackets.

Drill Ø13mm holes on the outside face of the Outback Beam, and Ø16mm holes on the inside face of the Outback Beam (Figure 1.19).

BEAM INSTALLATION

Lift the Beam into position and support using construction props. Fix the Beam to the Rafter Strengthening Brackets using stainless steel attachment bolts, aluminium spacers and washers as per Figures 1.21 & 1.23).

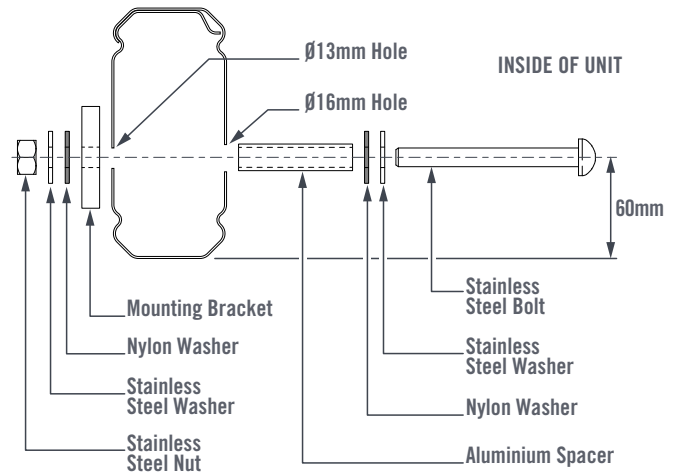


FIGURE 1.19

FIXED RAFTER STRENGTHENING BRACKET

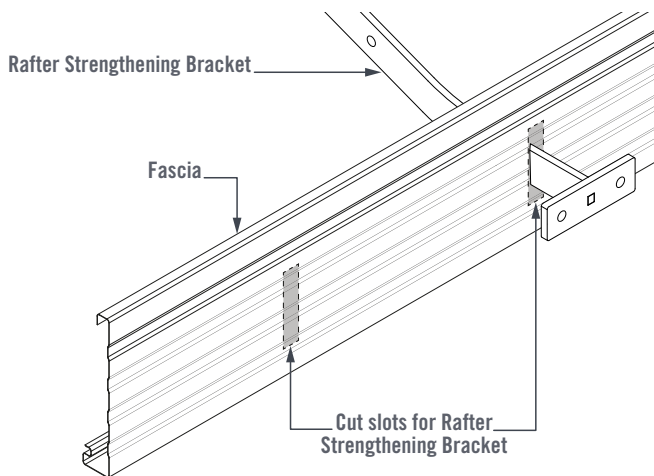


FIGURE 1.20

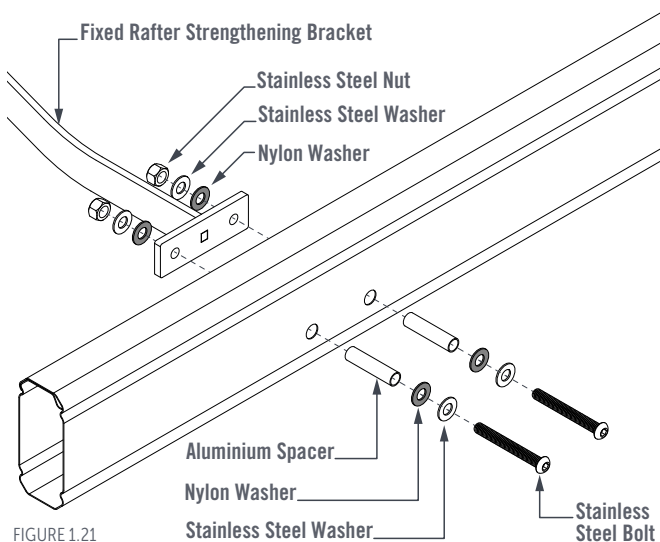


FIGURE 1.21

ADJUSTABLE RAFTER STRENGTHENING BRACKET

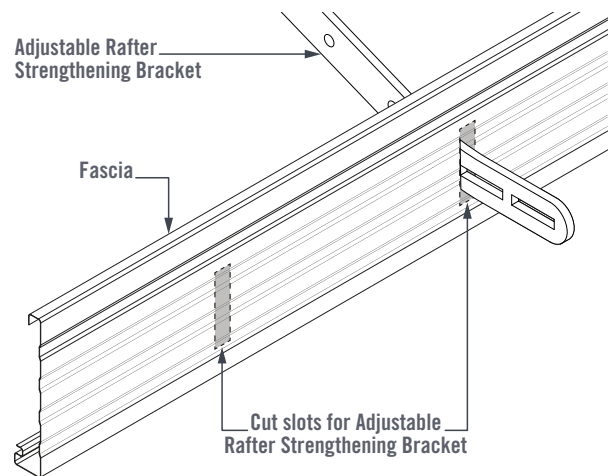


FIGURE 1.22

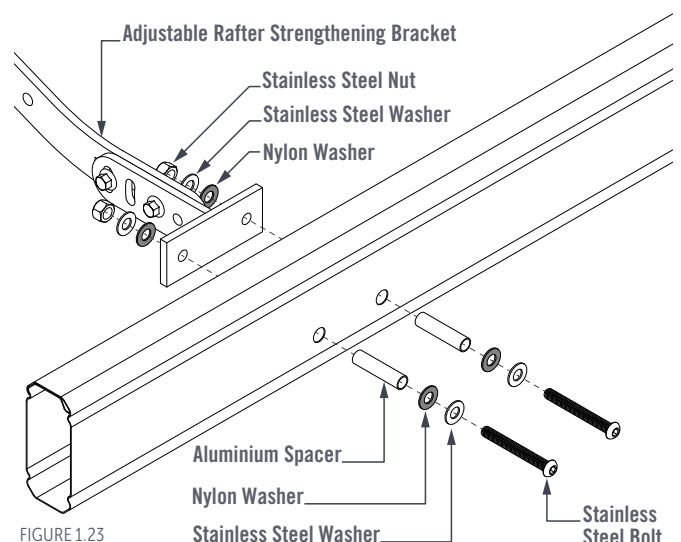


FIGURE 1.23

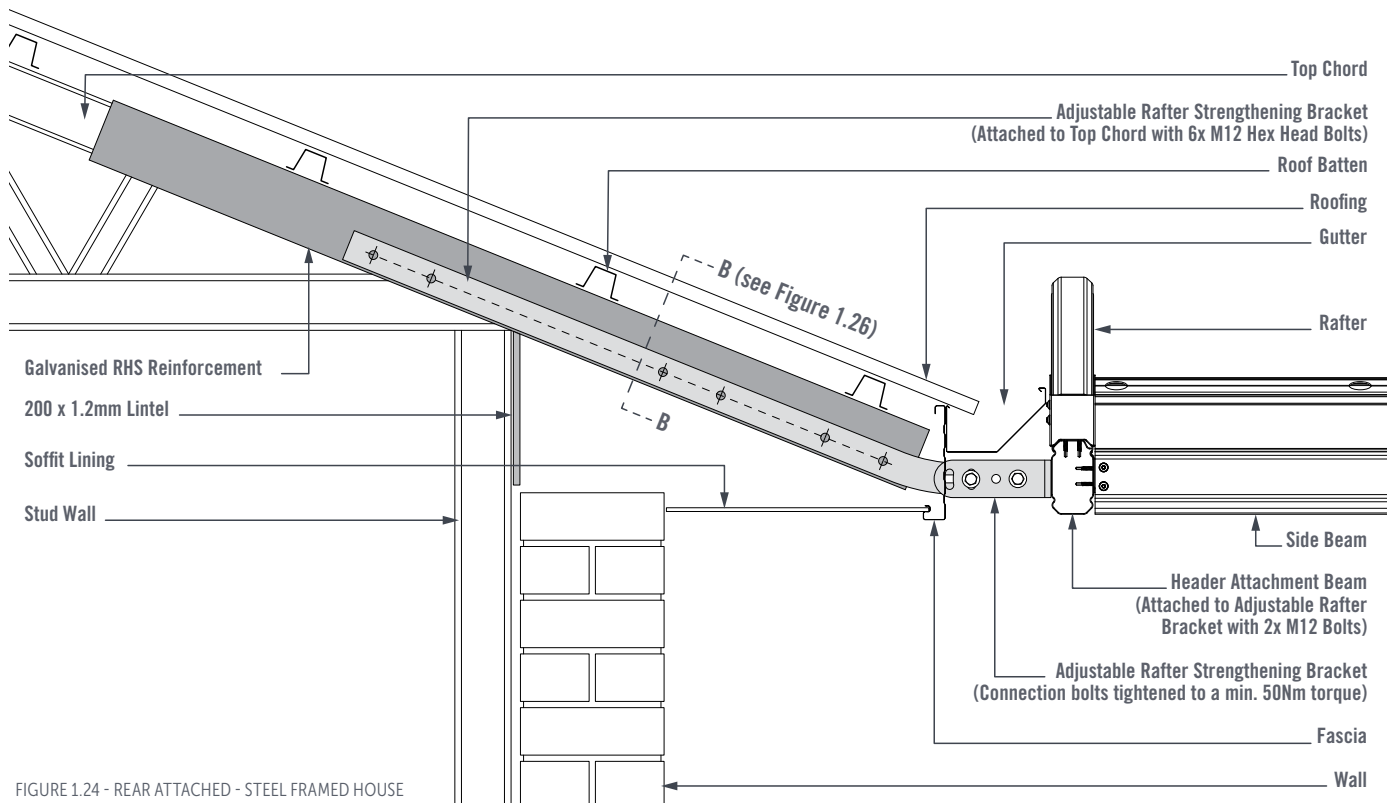


FIGURE 1.24 - REAR ATTACHED - STEEL FRAMED HOUSE

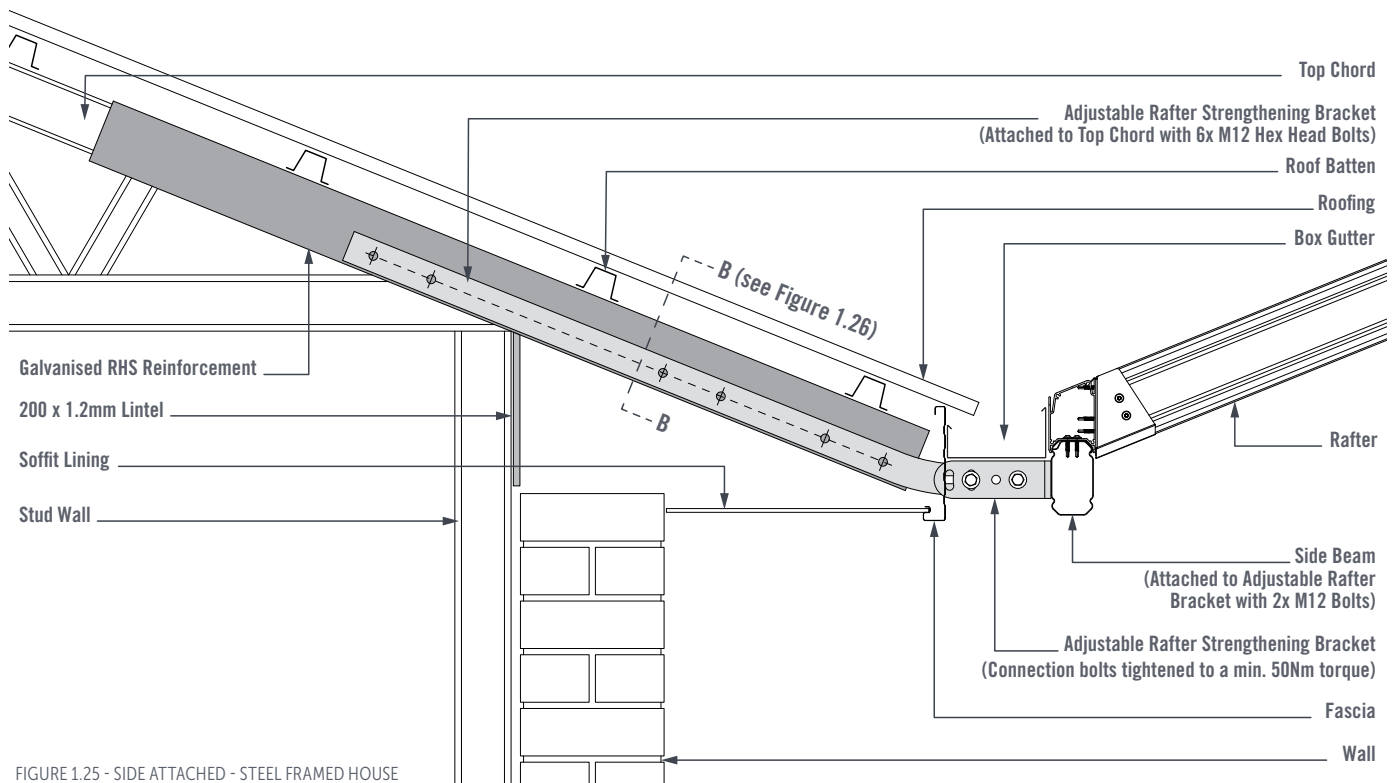


FIGURE 1.25 - SIDE ATTACHED - STEEL FRAMED HOUSE

NOTE:

Additional strengthening may be required and it is the builder's responsibility to ensure rafters are adequately reinforced and appropriately tied down to walls.

SECTION B-B

REINFORCED STEEL TOP CHORD/RAFTER DOUBLE CHANNEL 600MM EAVES OVERHANG

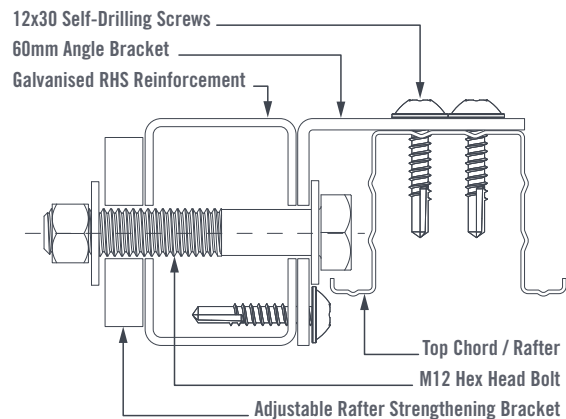


FIGURE 1.26

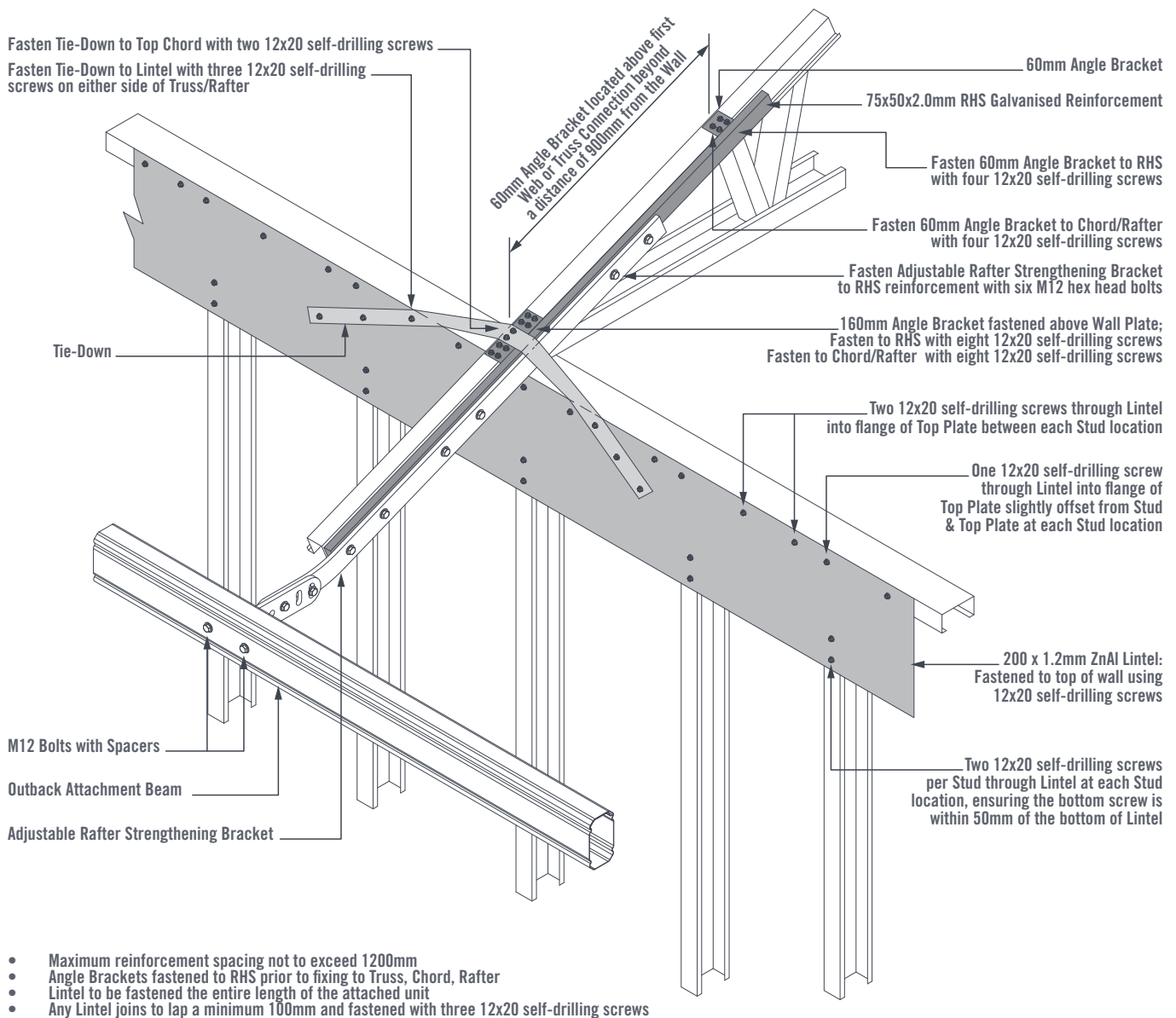


FIGURE 1.27

ATTACHMENT COVER PIECE INSTALLATION

Place the Attachment Cover Piece (Top) over the top of the Rafter Strengthening Bracket or Adjustable Rafter Strengthening Bracket between the Fascia and the Attachment Beam (Figure 1.28).

Trim the Attachment Cover Piece (Top) if required.

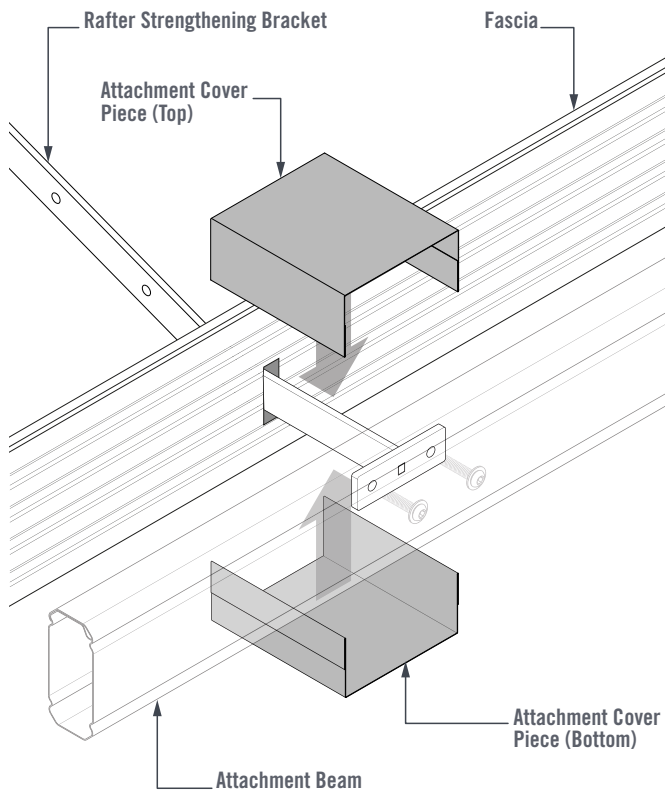


FIGURE 1.28

Lift the Attachment Cover Piece (Bottom) up so that it nests inside the Attachment Cover Piece (Top) (Figure 1.29).

Fix the two pieces together using 1x Ø3.2mm Colour Rivet through each side (Figure 1.29).

Trim the Attachment Cover Piece (Bottom) if required.

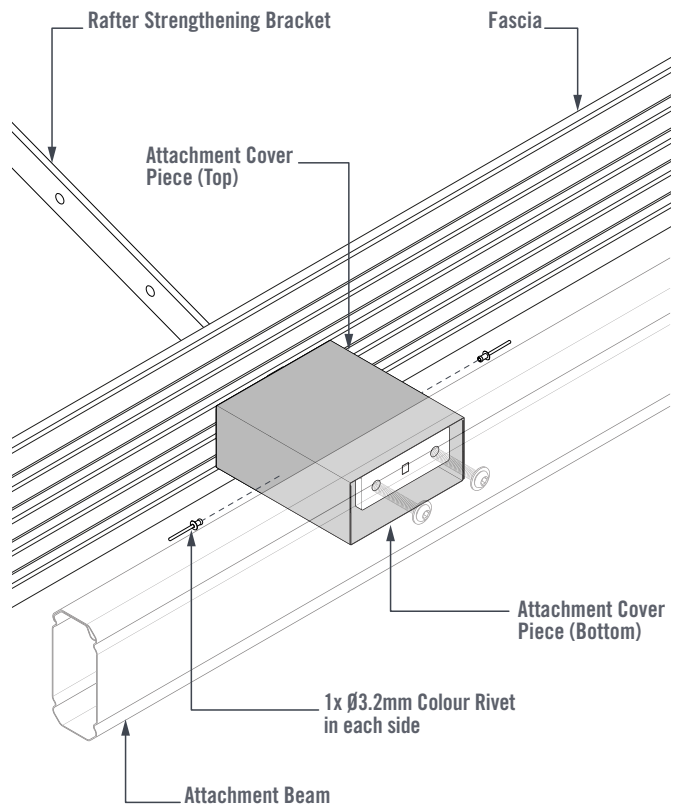


FIGURE 1.29

FASCIA ATTACHED (WITH RISER BRACKETS) (TIMBER FRAMED HOUSE)

FASCIA PREPARATION

Measure, mark and cut slots in the fascia for the Riser Brackets to protrude (Figure 1.30). The Rafter Strengthening Brackets must be positioned alongside house rafters.

Lift roof sheets and secure Riser Brackets to the rafters using M12 Hex Head Bolts (Figures 1.31 to 1.34).

Attach Outback SHS Connectors to the Riser Brackets using 2x Outback Self-Drilling Screws through either side of the Riser Bracket (Figure 1.30).

BEAM INSTALLATION

Lift the Beam into position so that it sits in the SHS Connectors and fix into position using Outback Self-Drilling Screws through the pilot holes provided (Figure 1.29).

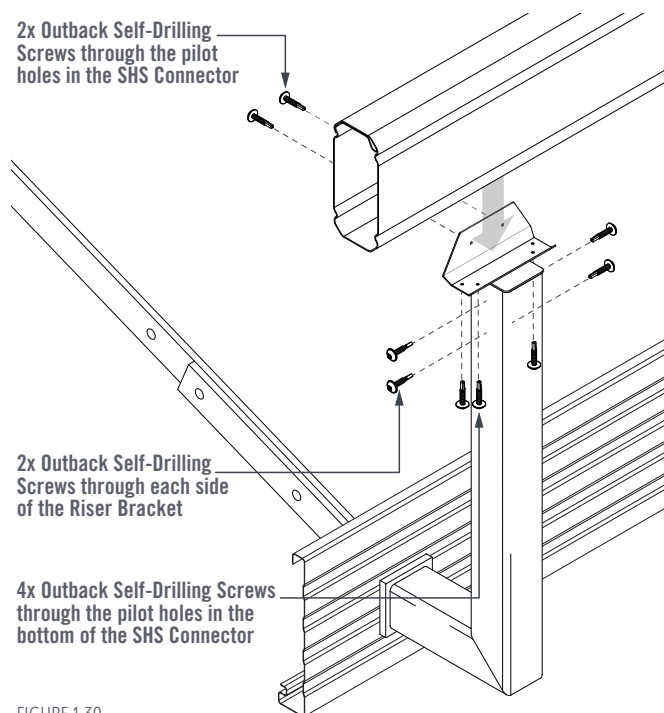


FIGURE 1.30

Minimum recommended Bracket spacing: 1200mm
Recommended Channel Extension beyond Birds Mouth: 1900mm
Recommended Web overhang: 400mm

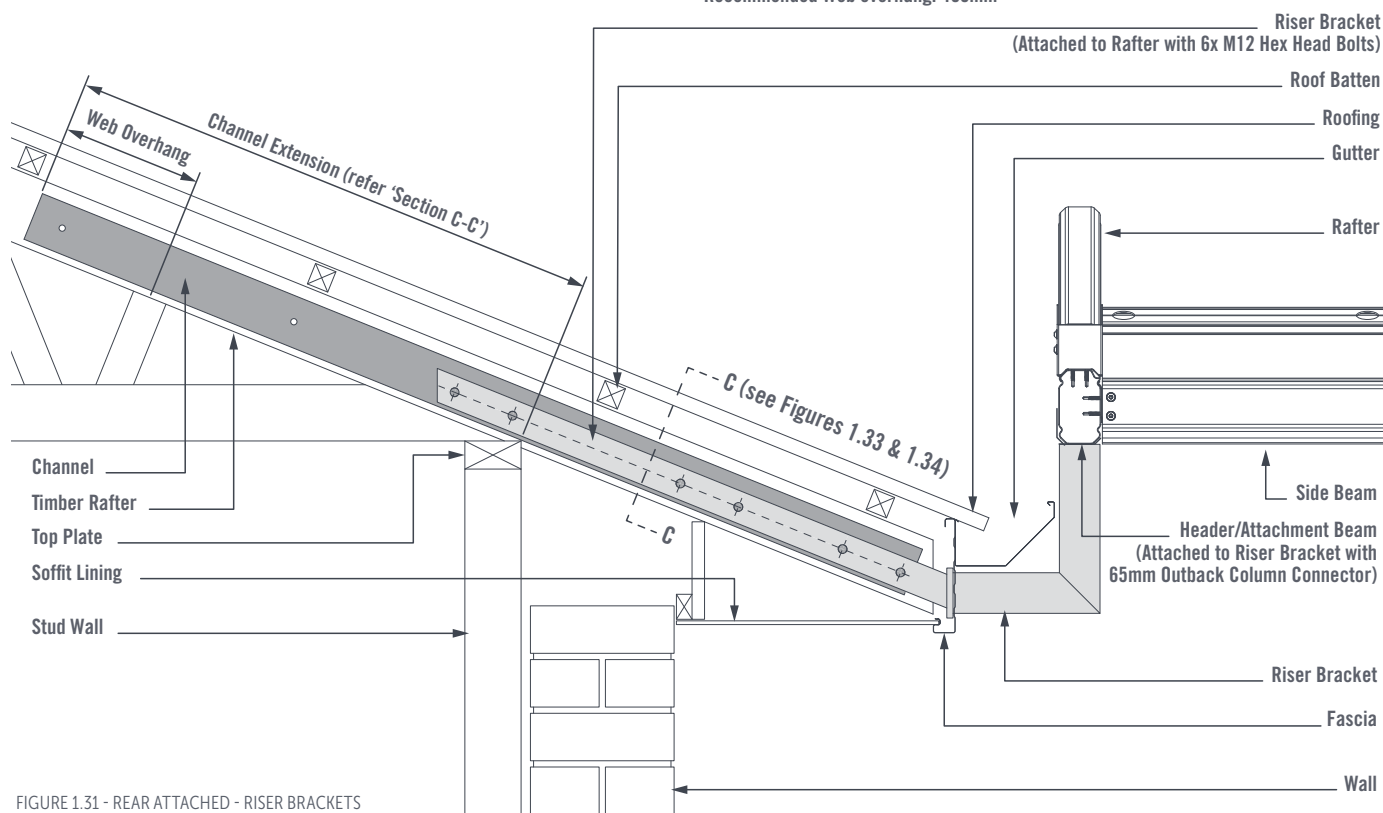


FIGURE 1.31 - REAR ATTACHED - RISER BRACKETS

Minimum recommended Bracket spacing: 1200mm
Recommended Channel Extension beyond Birds Mouth: 1900mm
Recommended Web overhang: 400mm

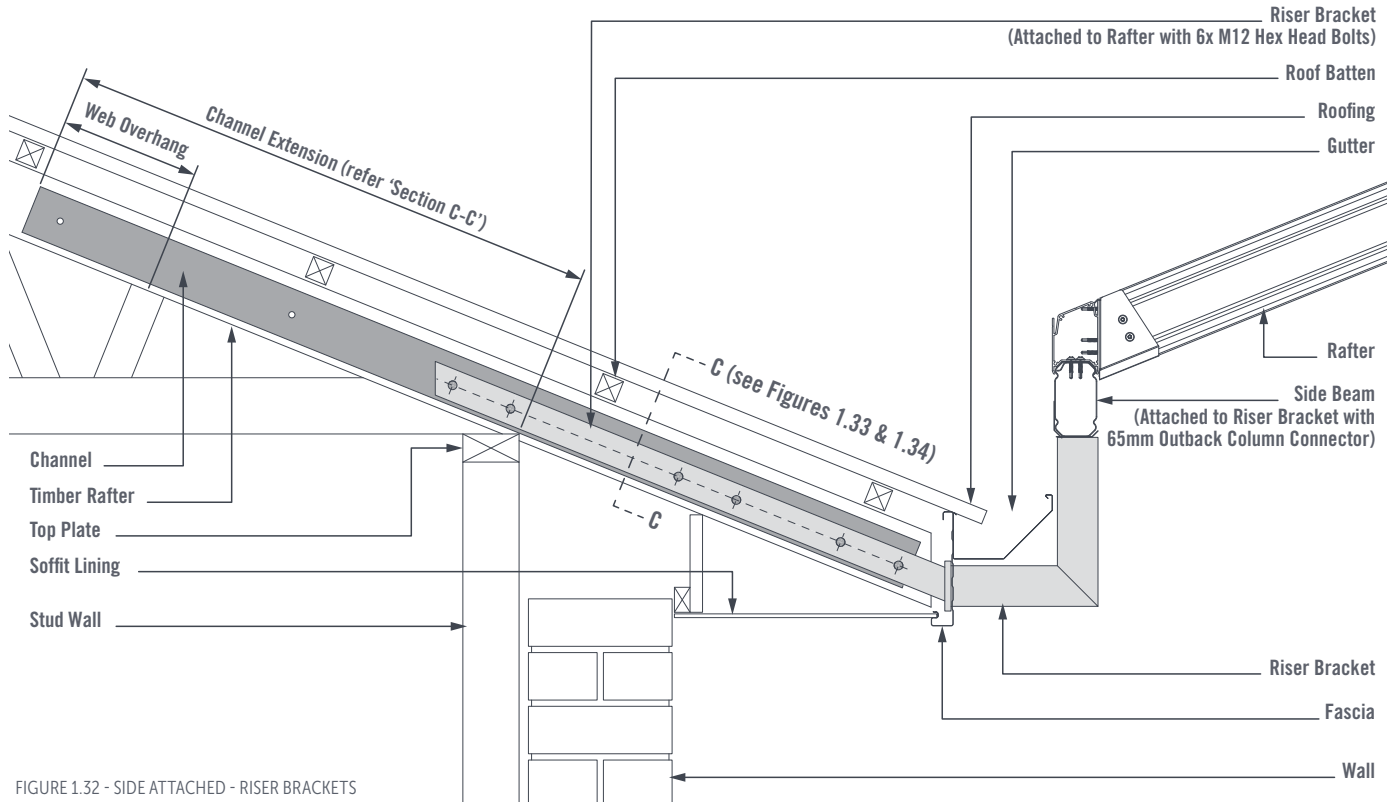


FIGURE 1.32 - SIDE ATTACHED - RISER BRACKETS

SECTION C-C

REINFORCED TIMBER RAFTER

*SINGLE CHANNEL
(450MM EAVES OVERHANG)

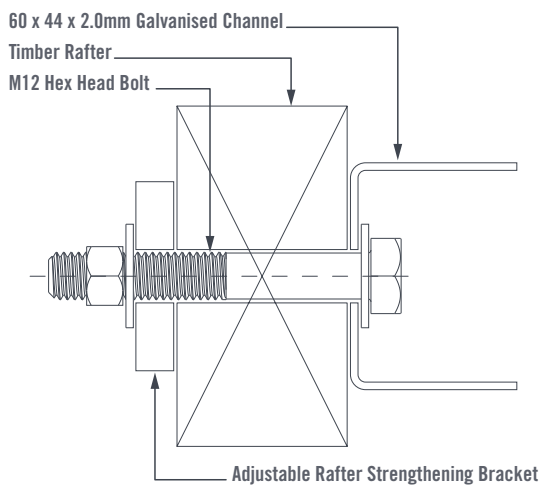


FIGURE 1.33

SECTION C-C

REINFORCED TIMBER RAFTER

*DOUBLE CHANNEL
(600MM EAVES OVERHANG)

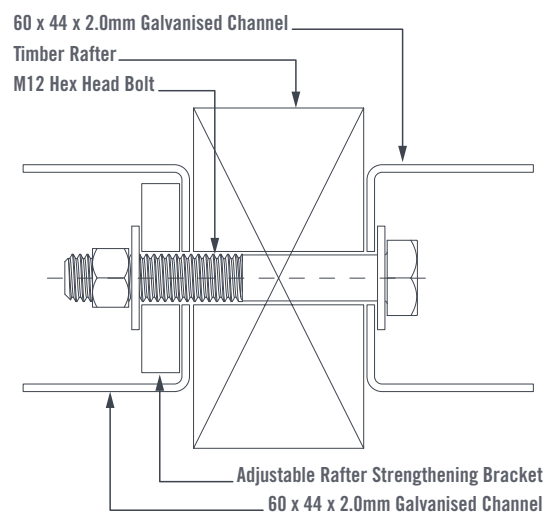


FIGURE 1.34

2. BEAM PREPARATION

OUTBACK BEAM ORIENTATION

Outback Beams are always to be oriented so the double thickness section of the beam is facing upwards and the seam is facing outwards (Figure 2.0).

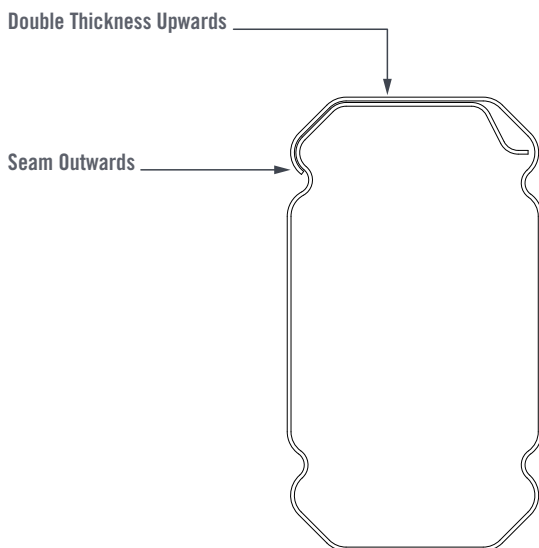


FIGURE 2.0 - OUTBACK BEAM

REINFORCED 150 OUTBACK BEAM

A 65 x 65 x 2.5mm SHS member is required when reinforcing 150mm Outback Beams is required. (Figure 2.1).

Fix using Outback Self-Drilling Screws at a maximum spacing of 500mm with the first and final screws at 50mm from the ends of the SHS.

Two sections of SHS welded together may be supplied to achieve the required length.

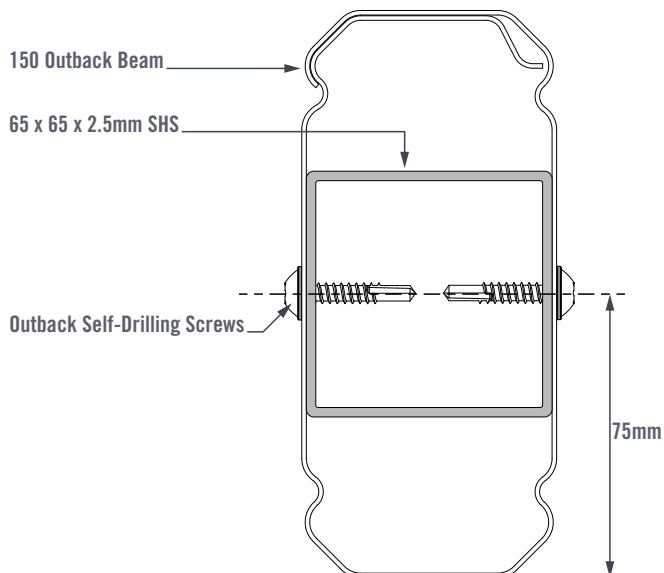


FIGURE 2.1 - REINFORCED OUTBACK BEAM

SMALL BEAM CAP

Place the Small Beam Cap on the top of the Outback beam, ensuring that the seam of the Outback beam is facing the outside of the unit and the Beam Cap slopes down towards the outside of the unit (Figure 2.2).

Fix the Small Beam Cap to the Outback Beam using Outback Self-Drilling Screws at the centre and at both ends of the Beam Cap (Figure 2.2).

When multiple lengths of Beam Cap are required the join is to be positioned behind Rafter-to-Beam Brackets where possible.

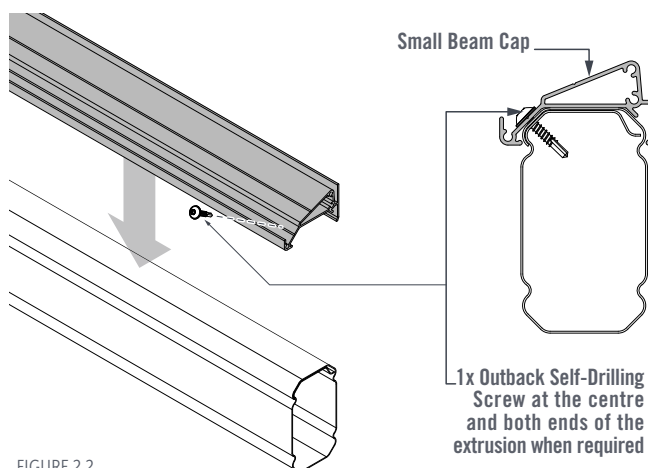


FIGURE 2.2

LARGE BEAM CAP

Place the Large Beam Cap on the top of the beam ensuring that the seam of the Outback beam is facing the outside of the unit and the Beam Cap slopes down towards the outside of the unit (Figure 2.3).

Fix the Large Beam Cap to the Outback Beam through the holes in the top of the Beam Cap using Outback Self-Drilling Screws, alternating screw positions along the fixing channels (Figure 2.3).

When multiple lengths of Beam Cap are required the join is to be positioned behind Rafter-to-Beam Brackets where possible.

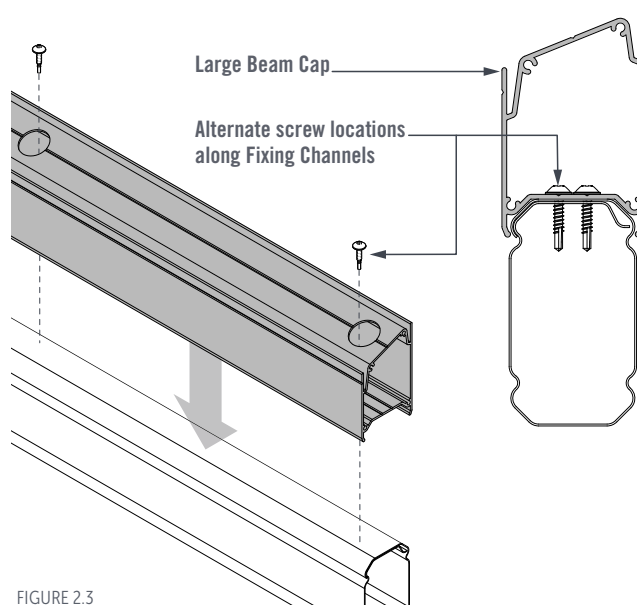


FIGURE 2.3

RAFTER-TO-BEAM BRACKETS (SMALL BEAM CAP)

Measure and mark the centre of rafter locations on the Small Beam Cap. Refer to detail sheets provided for Rafter locations and spacing dimensions.

Position the Rafter-to-Beam Brackets by hanging them on the Small Beam Cap at the marked Rafter locations.

Fix the Rafter-to-Beam Bracket to the Beam Cap and Side Beam with 8x Outback Self-Drilling Screws through the pilot holes provided (Figure 2.4).

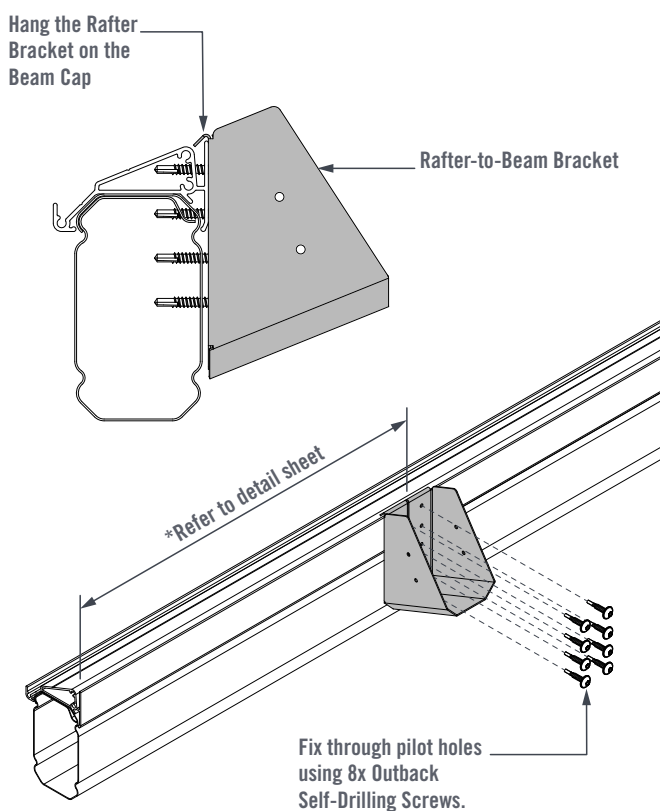


FIGURE 2.4

RAFTER-TO-BEAM BRACKETS (LARGE BEAM CAP)

Measure and mark the centre of rafter locations on the Large Beam Cap. Refer to detail sheets provided for Rafter locations and spacing dimensions.

Position the Rafter-to-Beam Brackets by hanging them on the Large Beam Cap at the marked Rafter locations.

Fix the Rafter-to-Beam Bracket to the Beam Cap and Side Beam with 8x Outback Self-Drilling Screws through the pilot holes provided (Figure 2.5).

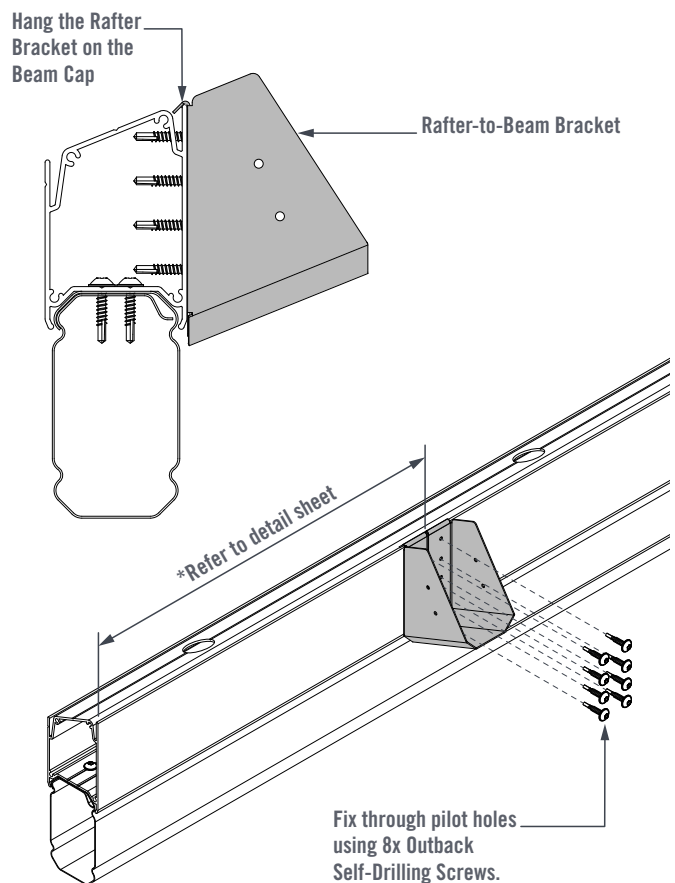


FIGURE 2.5

INTERNAL BEAM-TO-BEAM BRACKETS

Side Beams and Header Beams can be joined using Internal Beam-to-Beam Brackets.

When required place the Beam Endcaps in the end of each Side Beam before fixing the Beam-to-Beam Brackets (Figures 2.7 & 2.8). In some cases, side tags of Endcaps may need to be trimmed to prevent interference with attachment fixings.

Position the Notched Beam Filler on the Outback Beam. Locate Internal Beam-to-Beam Brackets over the top of the Notched Beam Filler using the locator on the bracket and the flute detail on the inside face of the Outback Beam (Figure 2.6).

Fasten using 2x Outback Self-Drilling Screws through the pilot holes provided (Figures 2.7 & 2.8).

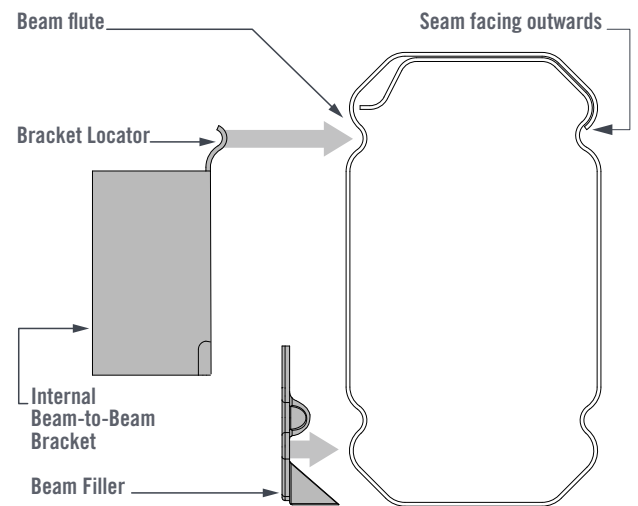


FIGURE 2.6

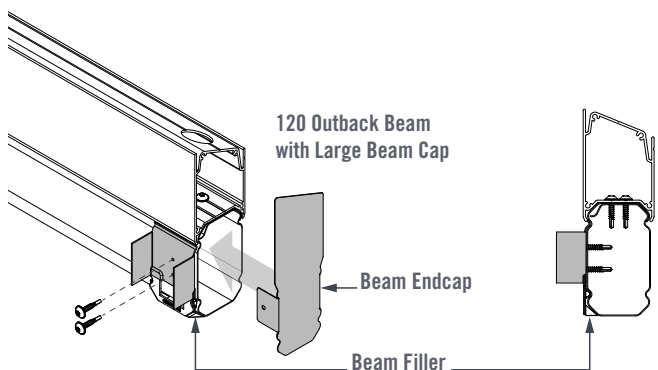
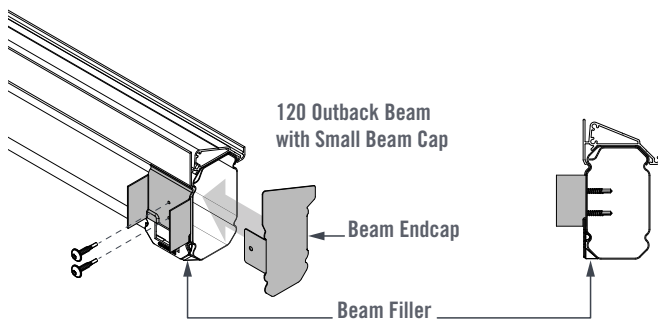
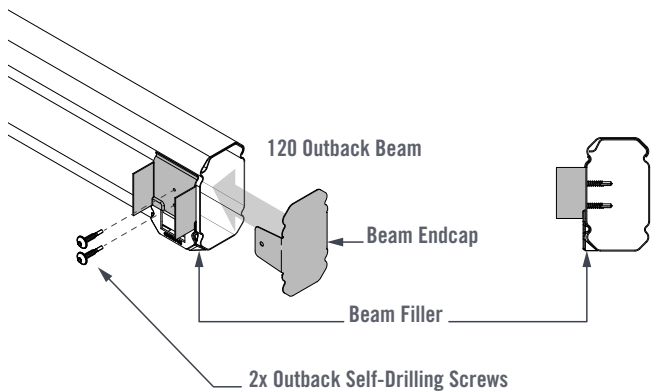


FIGURE 2.7 - 120 OUTBACK BEAM

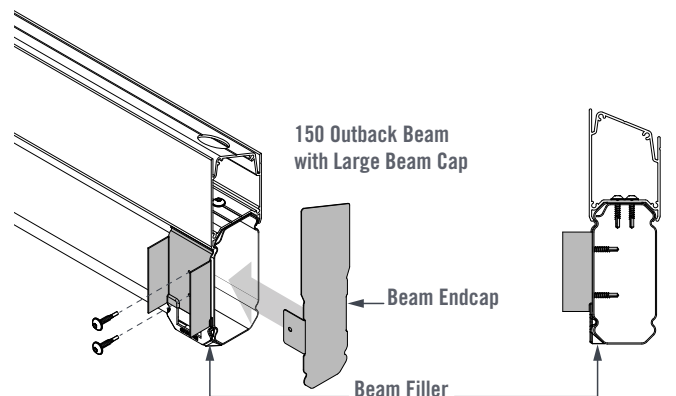
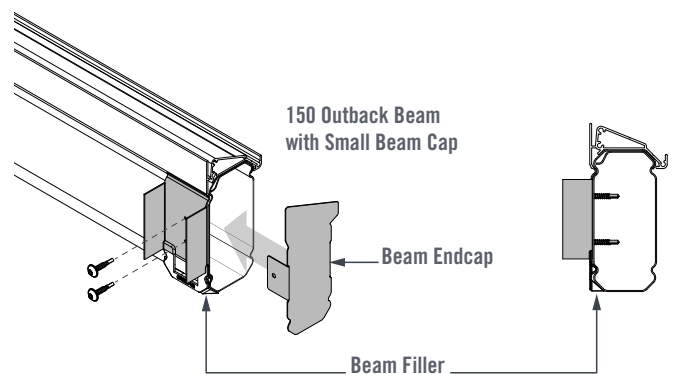
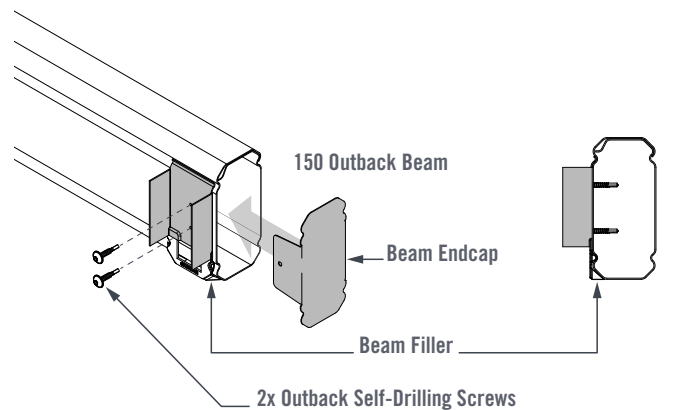


FIGURE 2.8 - 150 OUTBACK BEAM

EXTERNAL BEAM-TO-BEAM BRACKETS

Side Beams and Header Beams can be joined using External Beam-to-Beam Brackets.

When required place the Beam Endcaps in the end of each Side Beam before fixing the Beam-to-Beam Brackets (Figures 2.10 & 2.11). In some cases, side tags of Endcaps may need to be trimmed to prevent interference with attachment fixings.

Locate External Beam-to-Beam Brackets against the inside face of the Outback Beam Figure 2.9).

Fasten the bracket to the Beam using 6x Outback Self-Drilling Screws through the pilot holes (Figures 2.10 & 2.11).

SKIP FORWARD FOR;

Split Width Gable Side Beams - Page 14.2 to 14.9
Equal & Unequal Return Gable Side Beams - Page 15.2

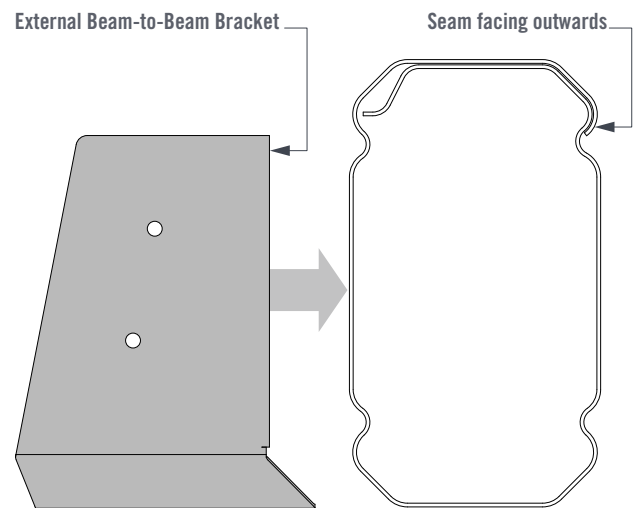


FIGURE 2.9

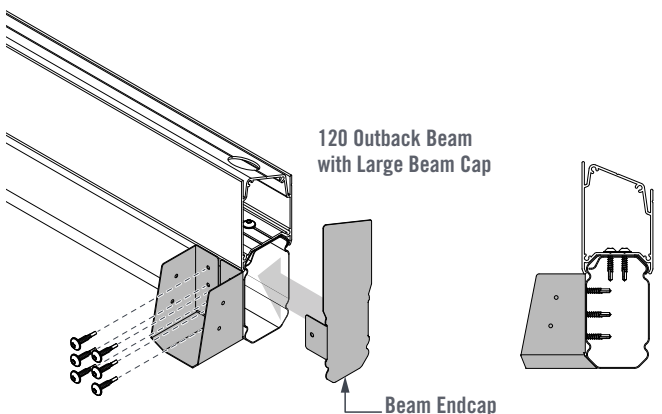
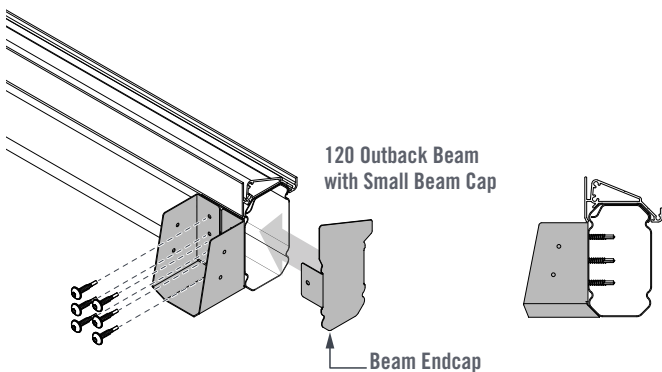
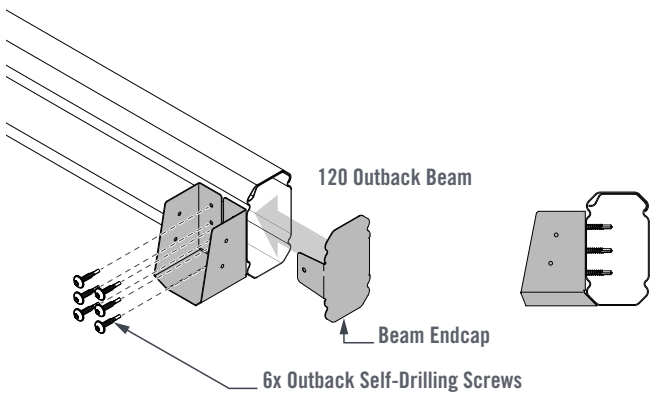


FIGURE 2.10 - 120 OUTBACK BEAM

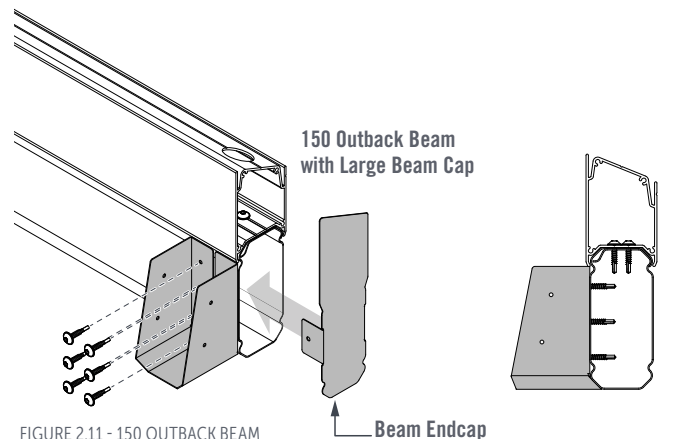
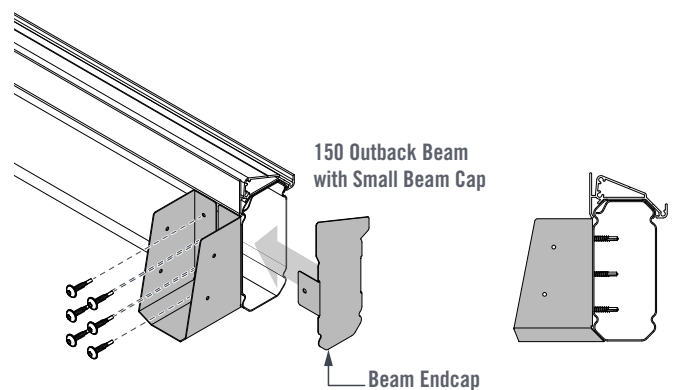
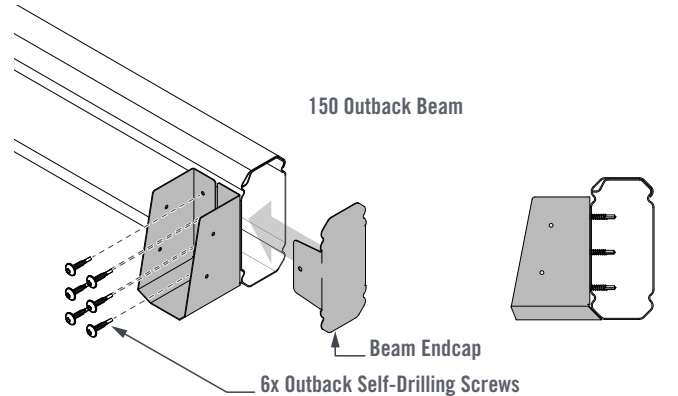


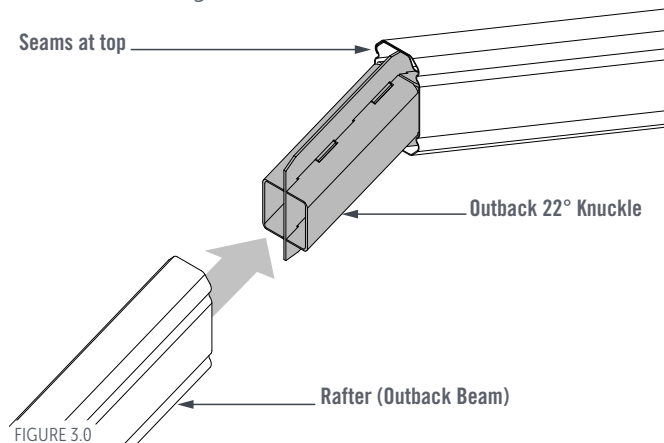
FIGURE 2.11 - 150 OUTBACK BEAM

3. RAFTER SET ASSEMBLY

RAFTER SET ASSEMBLY KNUCKLE ASSEMBLY

Refer to Detail Sheets provided to determine rafter pairs. Measure all Rafters and pair-up before any assembly.

Insert the Ridge Knuckle into the Outback Rafters ensuring the Rafters are flush and hard against one another with no gaps and the seams of the Rafters are at the top and facing the same side (Figure 3.0).



120 OUTBACK BEAM RAFTERS

SKIP FORWARD FOR:

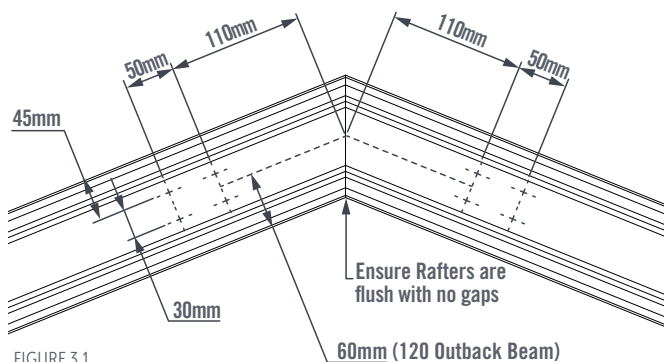
Hip-End Rafter Assembly - Page 16.1

Measure and mark the screw locations along the Outback Beam at 45mm from the top/bottom face of the 120 Outback Beam (Figure 3.1).

Space screws 110mm from the centre join and 50mm between screws (Figure 3.1).

IMPORTANT NOTE:

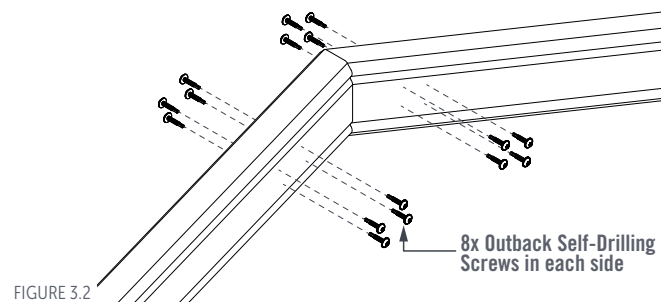
This screw spacing is critical for engineering compliance, and fitment of the Ridge to Rafter Brackets and Bulkhead.



Fix the Rafters to the Outback 22° Knuckle with Outback Self-Drilling Screws either side of each Rafter Set (Figure 3.2).

6x Outback Self-Drilling Screws each side (12x total) for 120 Outback Beam Rafters.

Note: If required, screws can be backed-off slightly to reduce unsightly compression of Rafters.



150 OUTBACK BEAM RAFTERS

Measure and mark the screw locations along the Outback Beam at 50mm from the top/bottom face of the 150 Outback Beam (Figure 3.3).

Space screws 105mm from the centre join and 50mm between screws (Figure 3.3).

IMPORTANT NOTE:

This screw spacing is critical for engineering compliance, and fitment of the Ridge to Rafter Brackets and Bulkhead.

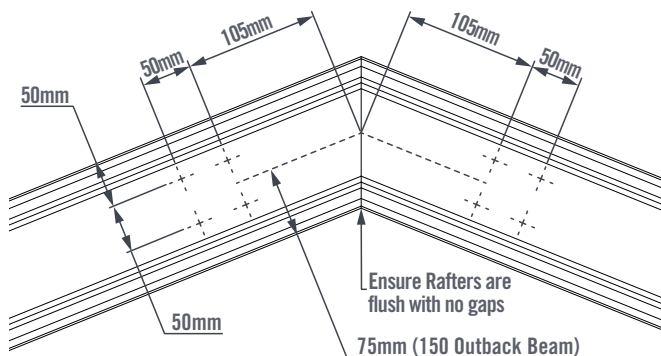


FIGURE 3.3 - 150 OUTBACK BEAM

Fix the Rafters to the Outback 22° Knuckle with Outback Self-Drilling Screws either side of each Rafter Set (Figure 3.4).

8x Outback Self-Drilling Screws each side (16x total) for 150 Outback Beam Rafters.

Note: If required, screws can be backed-off slightly to reduce unsightly compression of Rafters.

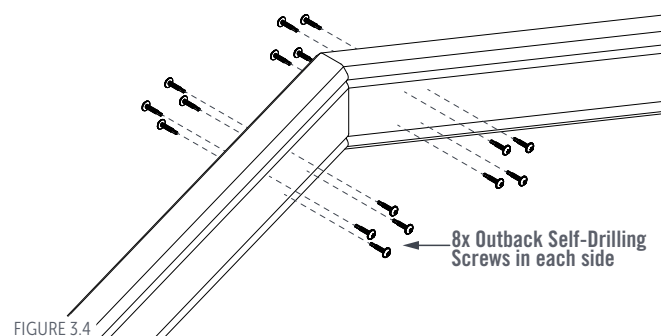


FIGURE 3.4

RIDGE-TO-RAFTER BRACKETS

Position the Ridge-to-Rafter Brackets so that the locating tabs on the brackets rest on top of the apex of the Rafters (Figures 3.5).

Fix each Ridge-to-Rafter Bracket to the Rafter Set and into the Knuckle using 6x Outback Self-Drilling Screws through the pilot holes provided (Figures 3.6 & 3.7).

IMPORTANT NOTE:

6x fixings must be used to secure the Ridge to Rafter Bracket. Some Brackets may be supplied with only 4x pilot holes, however 6x screws MUST be used.

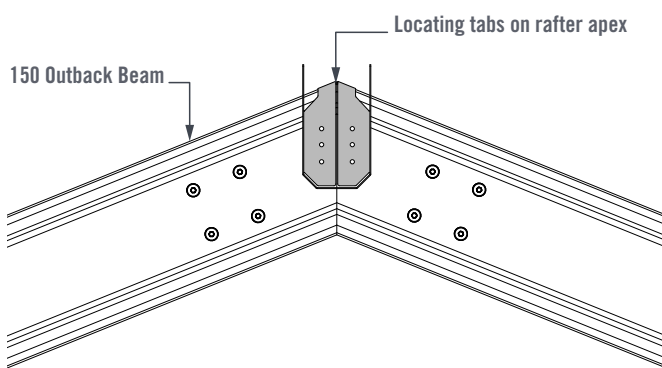
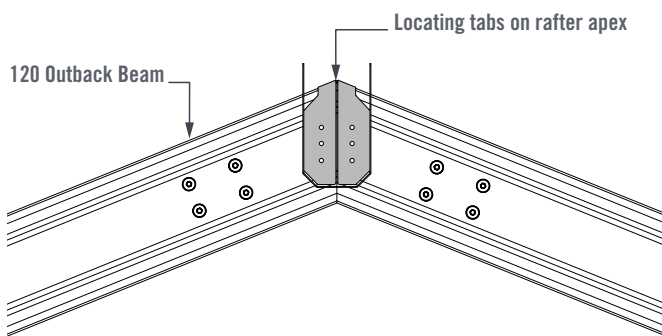


FIGURE 3.5

End Rafter Sets will have a single Ridge-to-Rafter Bracket facing the inside of the unit (Figure 3.6).

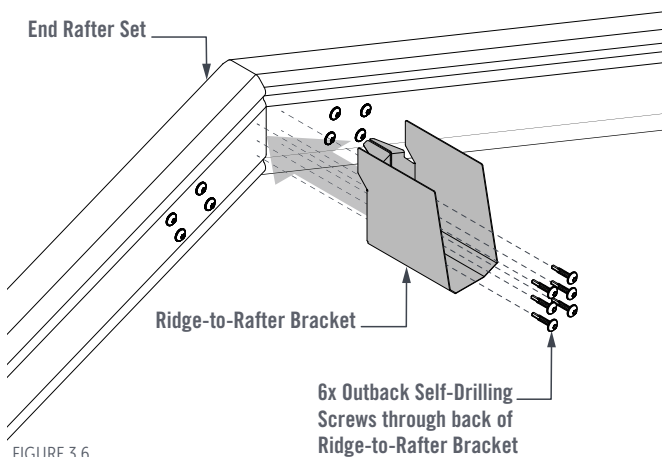


FIGURE 3.6

Internal Rafter Sets will have Ridge-to-Rafter Brackets mounted on either side of the rafters (Figure 3.7).

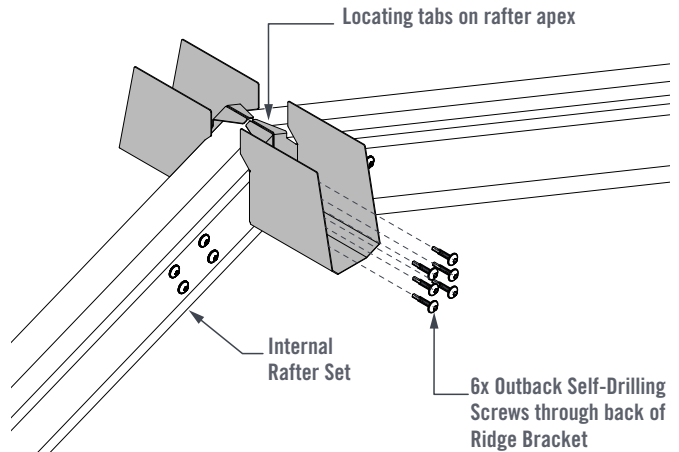


FIGURE 3.7

COLLAR TIE INSTALLATION

Measure and mark the locations of the Collar Tie Attachment Brackets (Figure 3.8).

Refer to detail sheets provided for Collar Tie locations and dimensions.

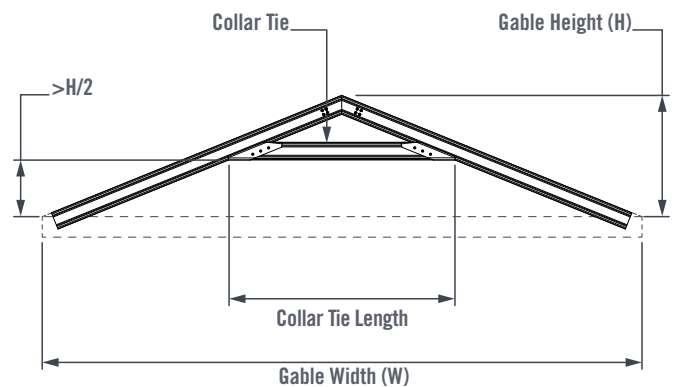


FIGURE 3.8

Position the Collar Tie Attachment Bracket so that the locating tabs rest neatly on the bottom face of the Rafter (Figure 3.9).

Align the pilot holes on the Collar Tie Washer Plate with the Collar Tie Attachment and fix to the Rafters with 10x Outback Self-Drilling Screws (Figure 3.9).

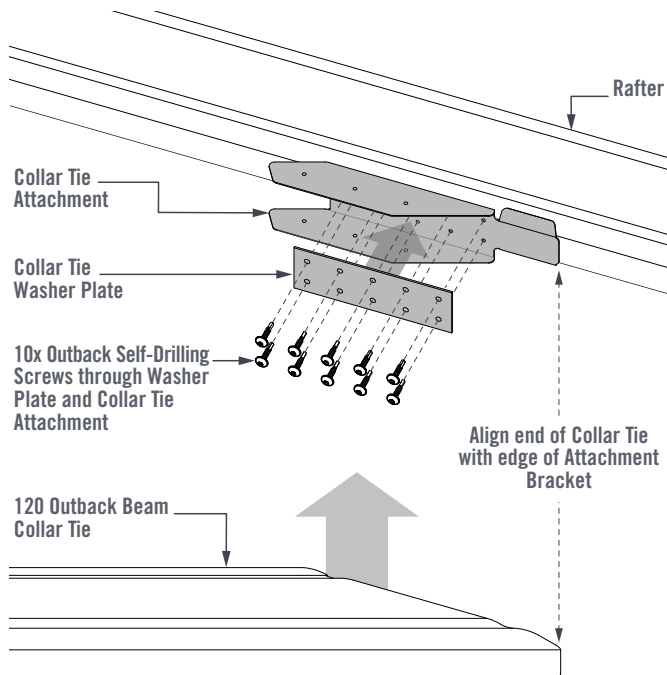


FIGURE 3.9

The 120mm Outback Beam Collar Tie member can then be placed inside the Collar Tie Attachment Brackets, with a Collar Tie Cover over the top. Ensure the pilot holes in each part are aligned (Figure 3.10).

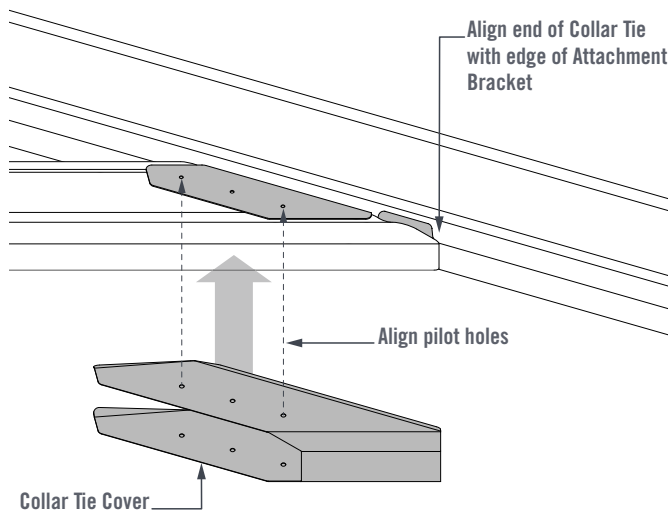


FIGURE 3.10

Fix Collar Tie members using 6x Outback Self Drilling Screws through the pilot holes in the Cover Bracket (Figure 3.11).

NOTE:

If Collar Ties are required on Hip-Valley Rafter Sets, installation is the same, noting components will suit a 16° rafter pitch.

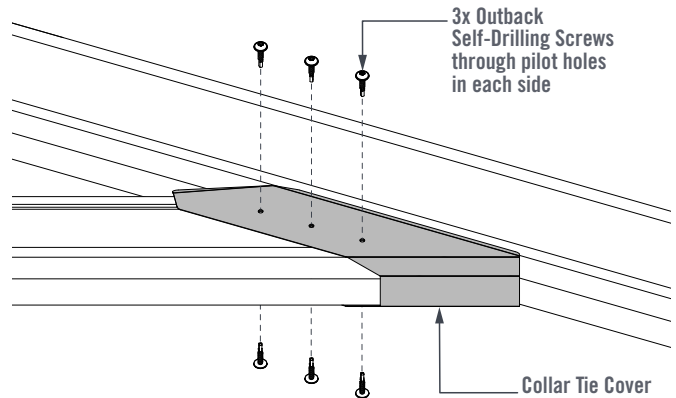


FIGURE 3.11

SKIP FORWARD FOR;

Split Width Gable Rafter Assembly - Page 14.10
 Equal Return Gable Rafter Set Assembly - Page 15.5
 Unequal Return Gable Ridge-Rafter Assembly - Page 16.2
 Hip-End Gable Bracket Installation - Page 18.2

4. COLUMN INSTALLATION

COLUMNS AND FOOTINGS INTO CONCRETE

If fixing Columns into the ground, dig the holes to the specified size ensuring a minimum embedment of 450mm (refer to detail sheets provided). Place a half brick in the bottom of the hole to stand the column on (Figure 4.0).

Measure from the underside of the beam to the top of the half brick and cut columns to this length at each column location.

Use construction props or bracing to hold columns in position, but do not concrete in place at this stage.

Note: Place the cut end of the column in the hole.

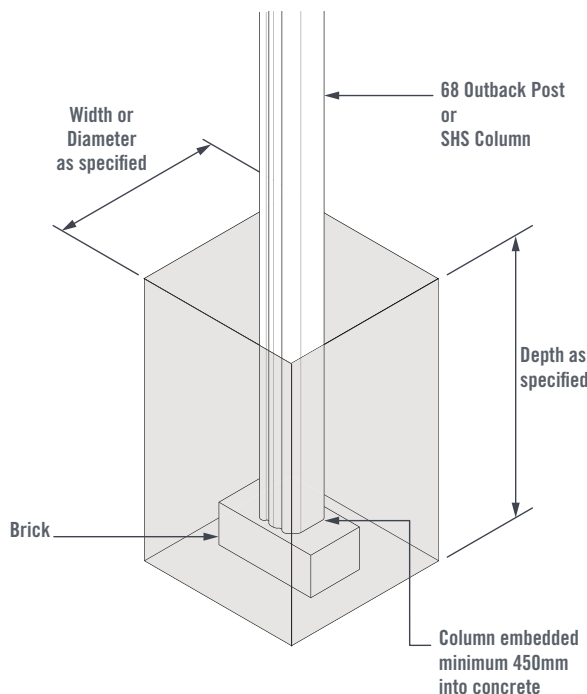


FIGURE 4.0

FOOTING ONTO CONCRETE

Footing brackets are provided if the columns are to be fixed to an existing concrete slab. Establish the column lengths by measuring the distance from the underside of the Outback Beam to the concrete slab (less the thickness of the Footing Plate or 20mm for 68 Outback Footing Plate).

68 OUTBACK FOOTING PLATE

For non-reinforced 68 Outback Posts, cut the columns to length, and assemble the Footing Bracket by sliding the legs of the Footing Upstand through the slots in the Footing Plate (Figure 4.1). The Upstand Brace must be located between the legs of the Upstand.

Slide the assembled Footing Bracket and Upstand Brace into the bottom of the column, and fasten with 2x Outback Self-Drilling Screws either side ensuring the top screws are located at least 15mm from the top of the Upstand with screws being a minimum 30mm apart (Figure 4.1).

Use construction props or bracing to hold columns in position but do not bolt to the concrete slab at this stage.

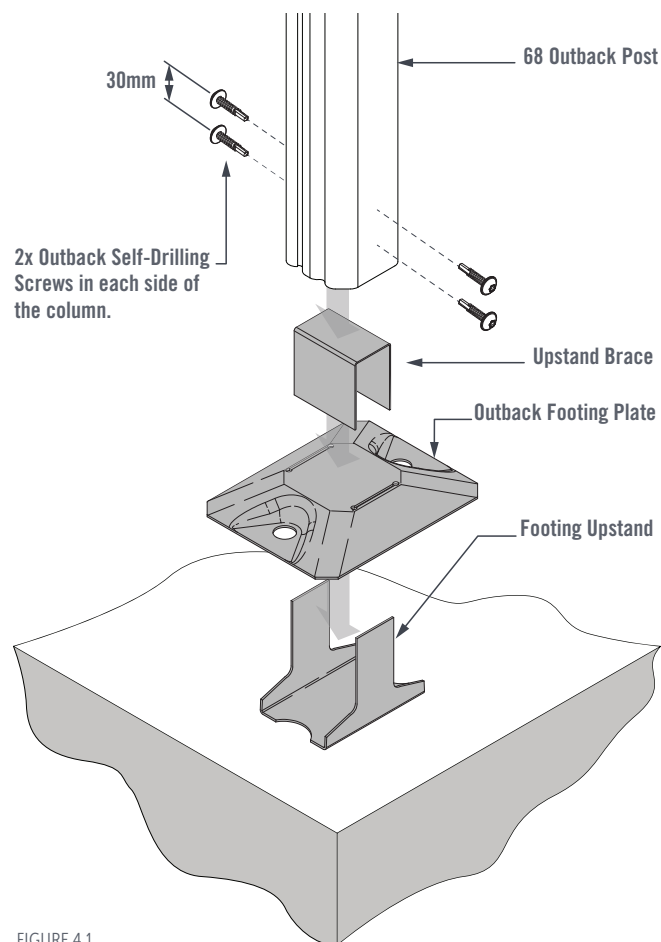


FIGURE 4.1

SHS COLUMN FOOTING PLATE

Measure from the underside of the Outback Beam to the top top of the slab and cut SHS columns to this length.

A minimum distance of 75mm from the edge of the concrete to the footing fixing points is required (Figure 4.2). Pre-drill the bolt holes in the SHS column. Slide the SHS Column Footing Plate into the bottom of the column, and fasten with two M10 bolts through the column with washers under both bolt head and nut. (Figure 4.2).

Use construction props or bracing to hold columns in position, but do not bolt to the concrete slab at this stage.

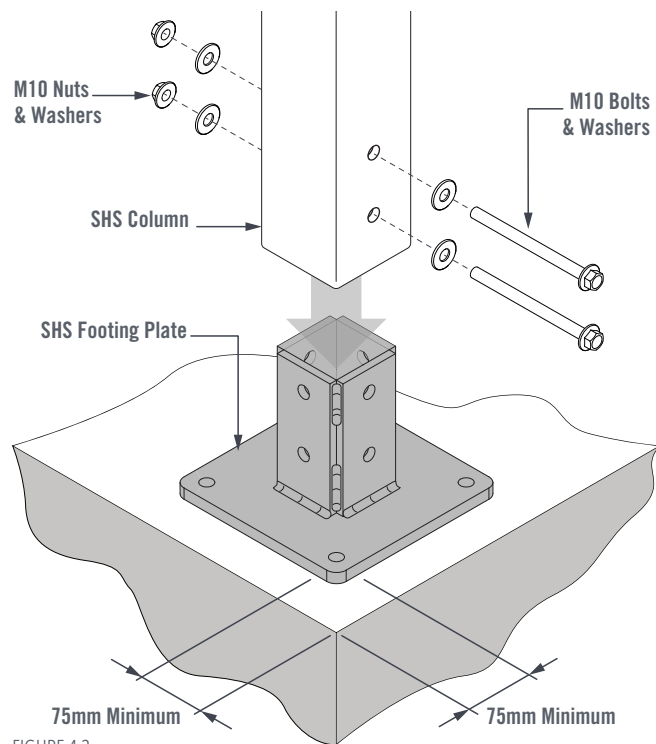


FIGURE 4.2

68 POST TO 68 OUTBACK POST BRACKET

Measure and mark the locations of the columns and clip the Post-Beam Brackets onto the bottom of the Outback Beam where the posts will be located.

Fix the Post-to-Beam Bracket to the Outback Beam through the pilot holes in the post bracket with 2x 10g x 25mm countersunk screws each side into the flute of the Outback Beam (Figure 4.4).

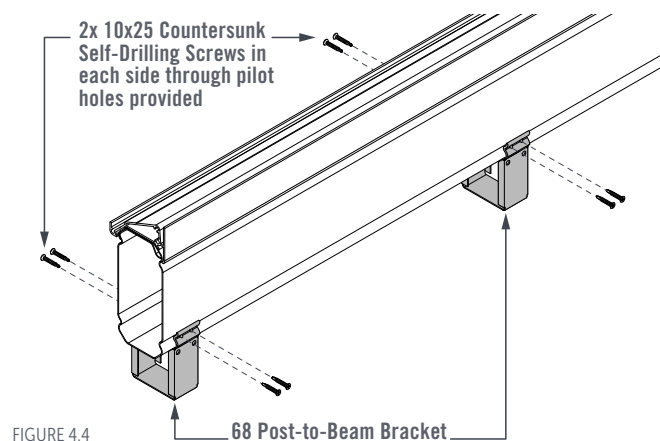
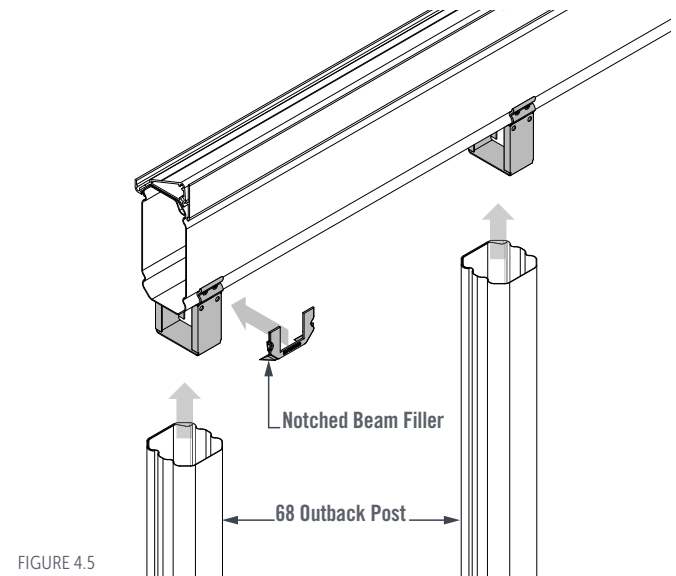


FIGURE 4.4

Ensure the Notched Beam Fillers are in place where Internal Beam-to-Beam Brackets are used in-line with Post-to-Beam Brackets.

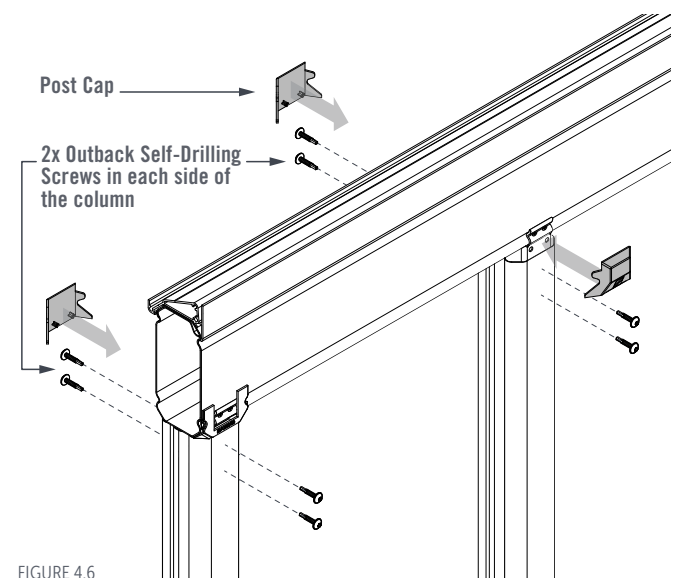
Slide the 68 Outback Posts onto the Post-to-Beam Brackets so that the un-fluted faces of the post align with each face of the Post-to-Beam Bracket. It may be necessary to lift the Outback Beam to slide the column over the Post-to-Beam Bracket (Figure 4.5).



Fix the 68 Outback Post to the Post-to-Beam Bracket using 2x Outback Self-Drilling Screws on each side of the Post. (Figure 4.6).

Press Post Caps firmly into position over the Post-to-Beam Brackets to cover the countersunk screw heads. Silicone can be used to provide a more secure fitment.

Use construction props or bracing to hold columns in position but do not secure to ground at this stage.



SHS COLUMN CONNECTIONS

Measure from the underside of the Outback Beam to the top of the brick or top of the slab and cut SHS columns to this length.

Screw the SHS Column Connector to the top of the SHS Column with 2x Outback Self-Drilling Screws on either side of the column (Figures 4.8 & 4.10).

Stand the SHS Column in position. Screw the SHS Column Connector to the outside face and the under side of the Outback Beam with Outback Self-Drilling Screws through the pilot holes provided (Figures 4.8 & 4.10).

Use construction props or bracing to hold columns in position but do not secure to the slab at this stage.

Alternatively, SHS Column Connections can be fixed to the Outback Beams first, with SHS Columns lifted into place later.

SKIP FORWARD FOR;

Equal Return Gable &

Unequal Return Gable Column Connections - Page 15.6

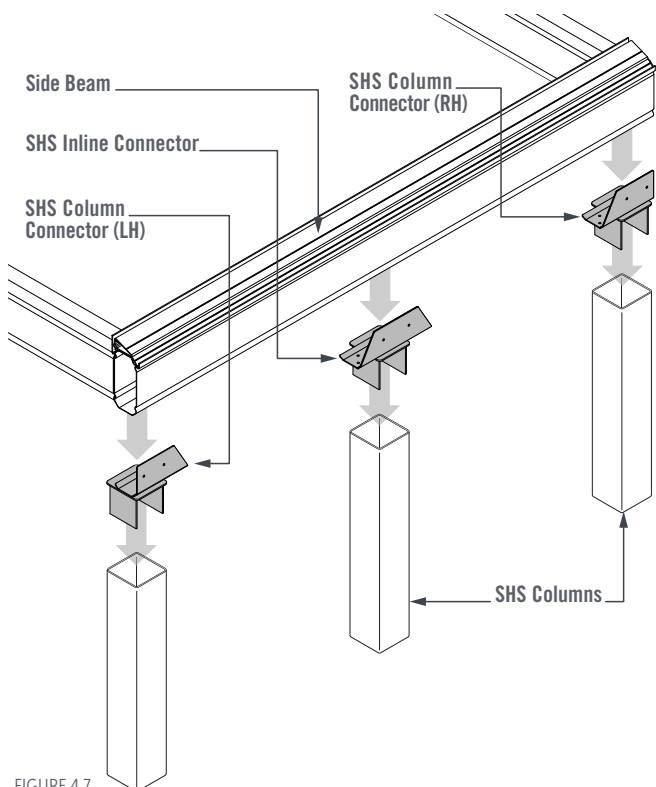


FIGURE 4.7

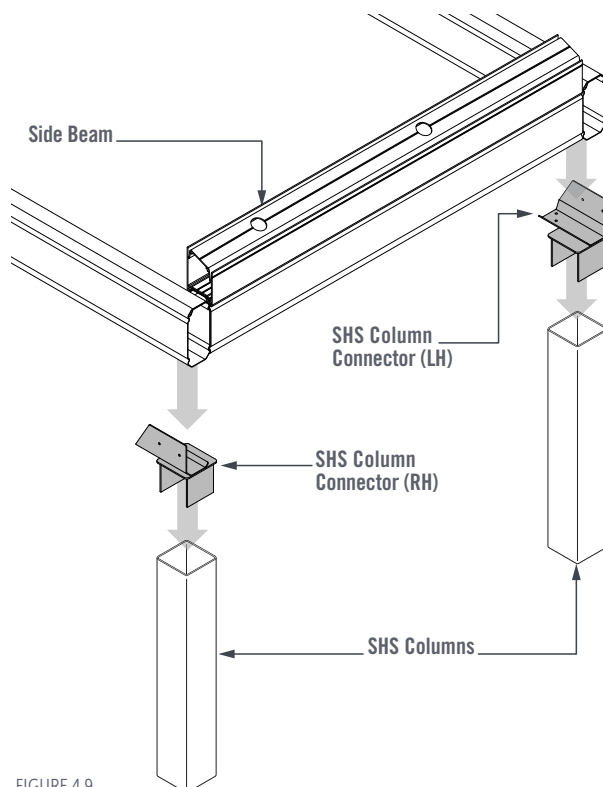


FIGURE 4.9

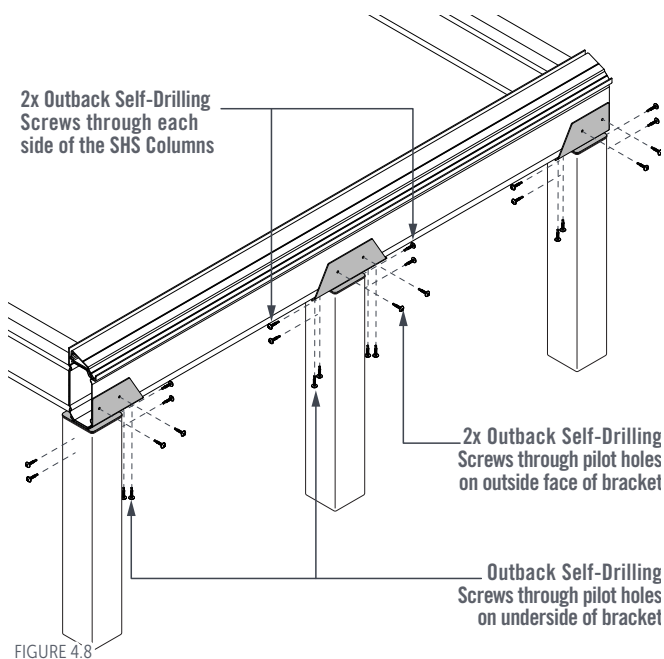


FIGURE 4.8

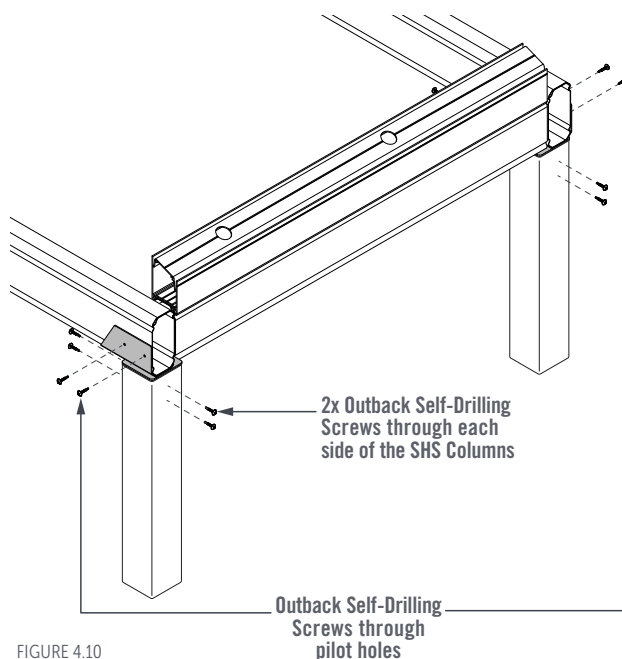


FIGURE 4.10

5. RAFTER INSTALLATION

RAFTER INSTALLATION

RAFTER TO LONG HEADER BRACKET INSTALLATION

Long Header Beam configurations feature Header Beams that run the full width of the Gable unit.

Position the Rafter-to-Header Bracket on the top of the Header Beam so that it is flush with the end of the Header Beam.

Fix the Rafter-to-Header Bracket to the Header Beam with 6x Outback Self-Drilling Screws through pilot holes provided (Figures 5.0 to 5.5).

Repeat this process for the opposite end of the Header Beam.

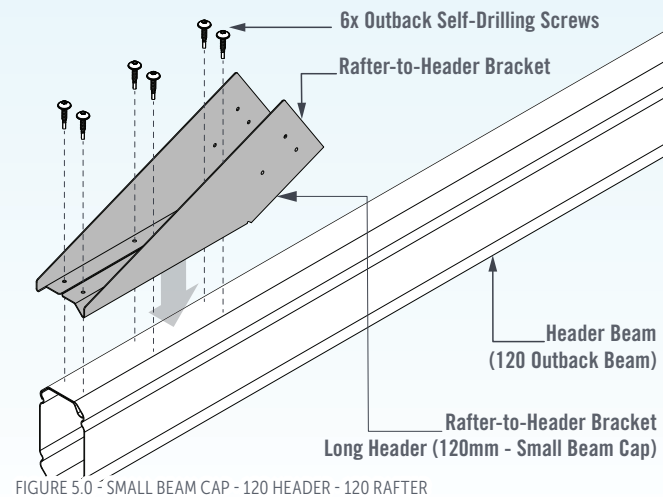


FIGURE 5.0 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

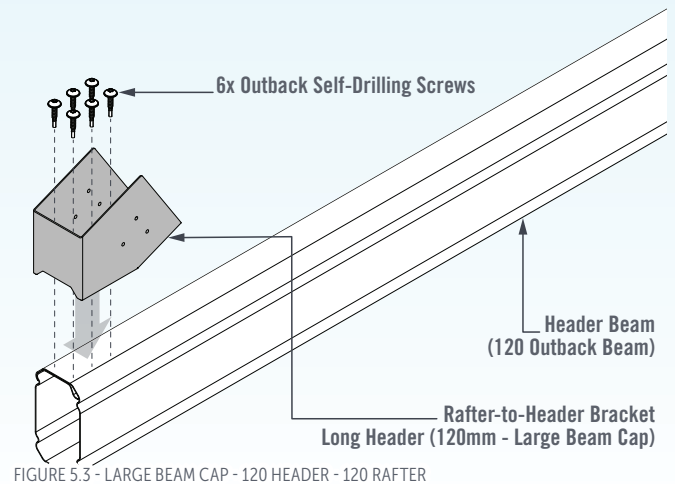


FIGURE 5.3 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

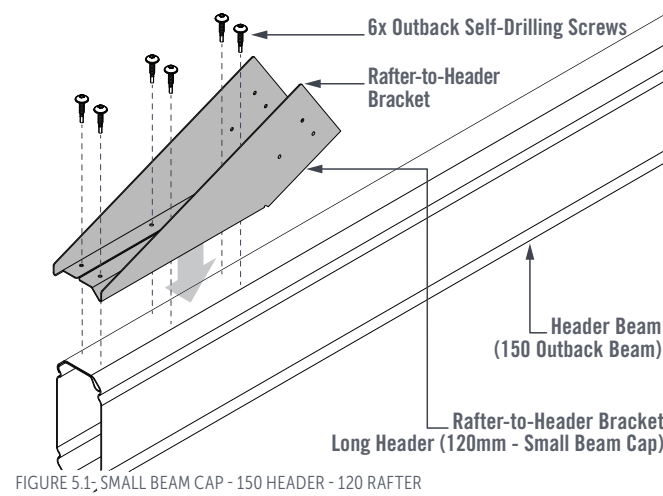


FIGURE 5.1 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

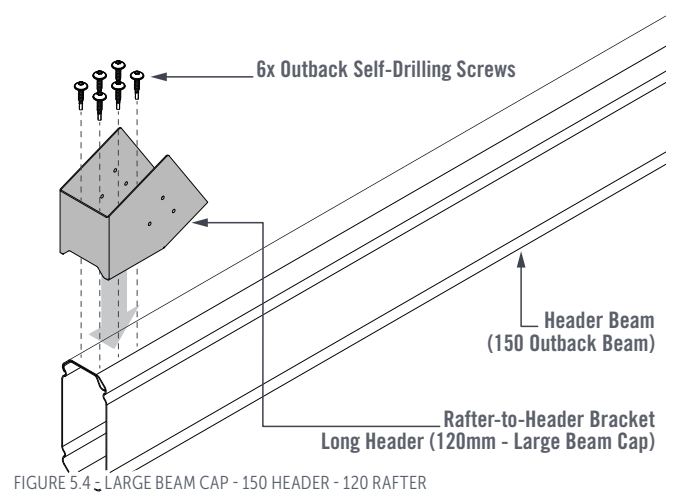


FIGURE 5.4 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

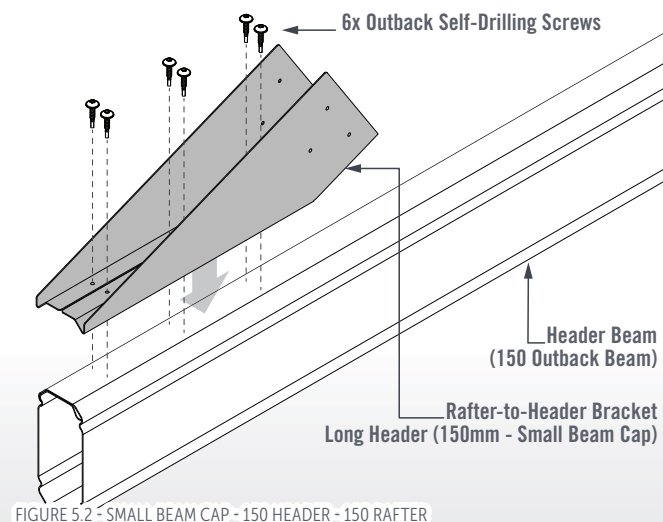


FIGURE 5.2 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

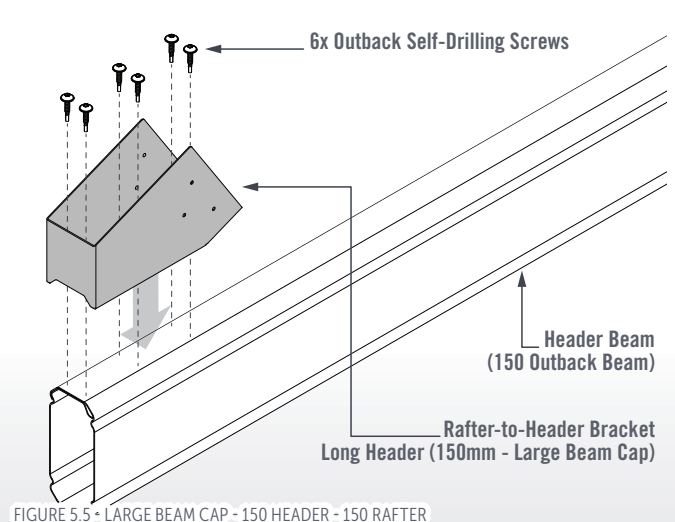


FIGURE 5.5 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

RAFTER TO LONG HEADER RAFTER INSTALLATION

Lift the pre-assembled Rafter Set into position and ensure it is fully seated in the Rafter-to-Header Bracket at each end of the Header Beam and that the ridge is central.

Fix the Rafter Set at each end of the Header Beam with 3x Outback Self-Drilling Screws through the pilot holes in each side of the Rafter-to-Header Brackets (Figures 5.6 to 5.11).

Repeat this process for the opposite end of the Header Beam.

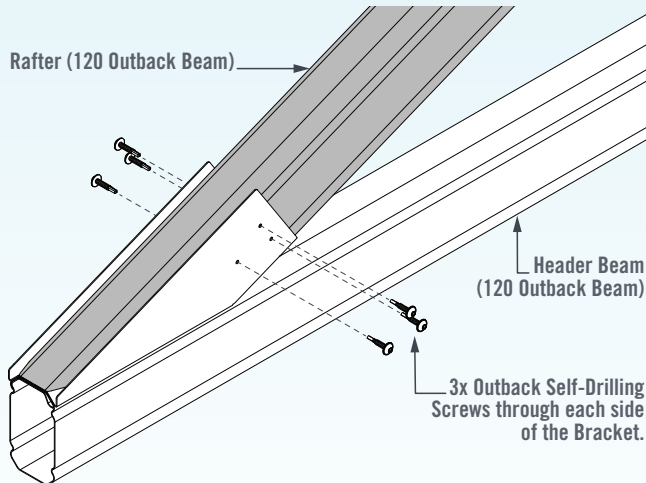


FIGURE 5.6 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

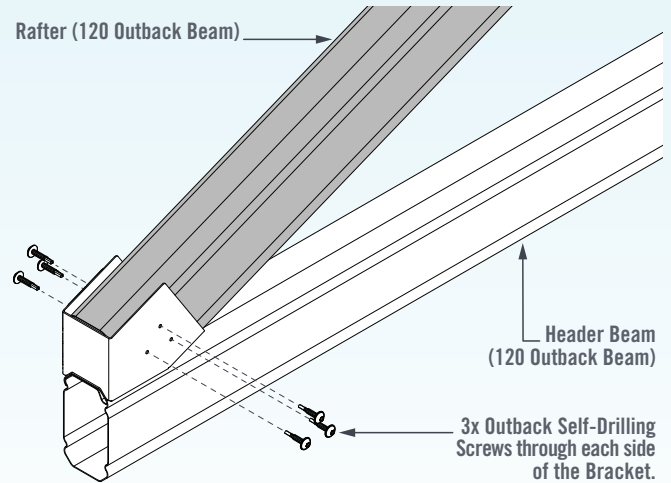


FIGURE 5.9 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

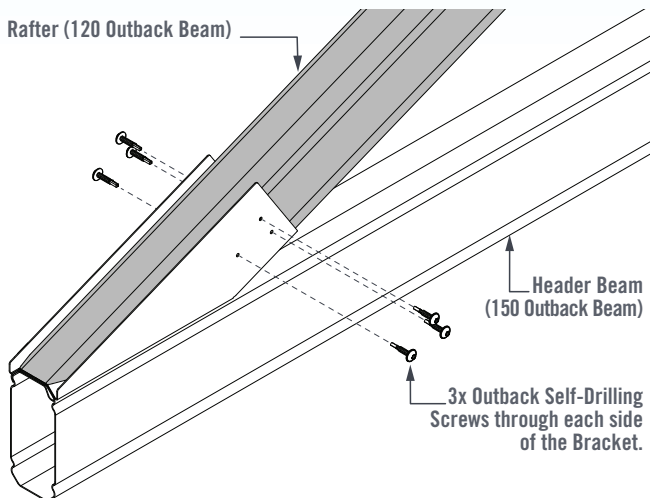


FIGURE 5.7 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

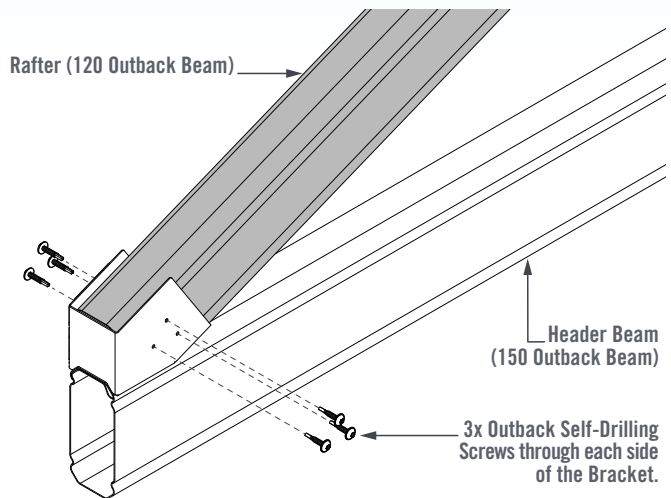


FIGURE 5.10 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

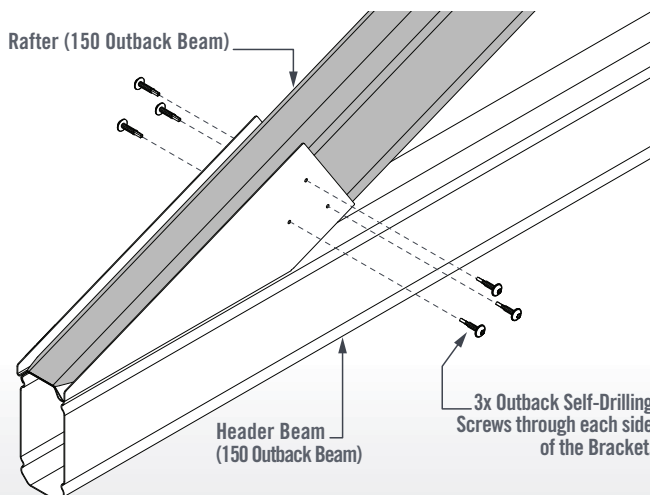


FIGURE 5.8 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

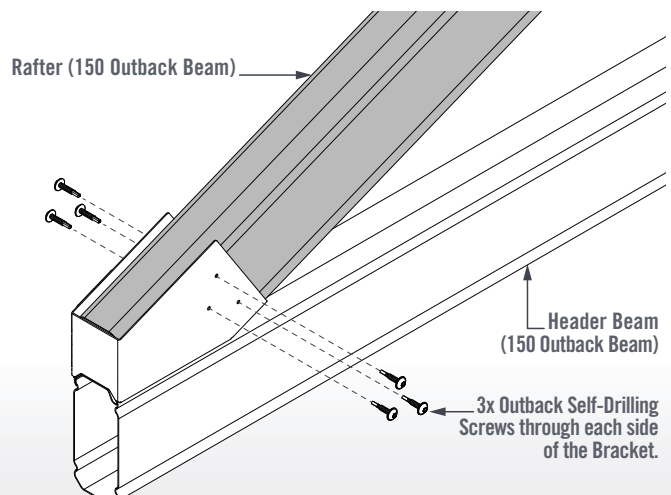


FIGURE 5.11 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

RAFTER TO SHORT HEADER BRACKET INSTALLATION

Short Header Beam configurations feature Header Beams that fit between the Side Beams.

Position the Rafter-to-Header Bracket on the top of the Header Beam so that it is flush with the end of the Header Beam.

Fix the Rafter-to-Header Bracket to the Header Beam with Outback Self-Drilling Screws through pilot holes provided (Figures 5.12 to 5.17).

Repeat this process for the opposite end of the Header Beam.

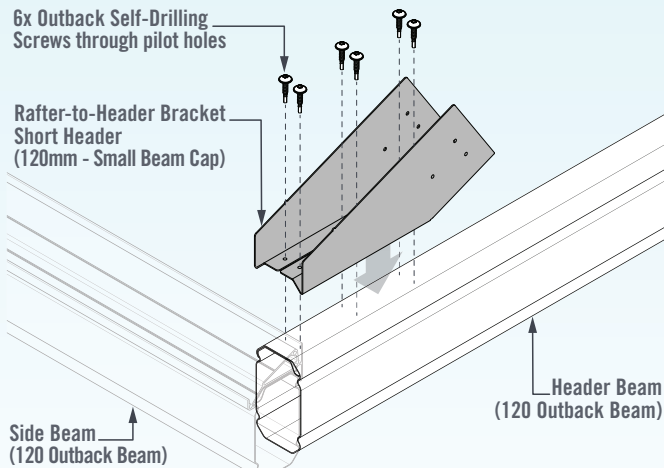


FIGURE 5.12 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

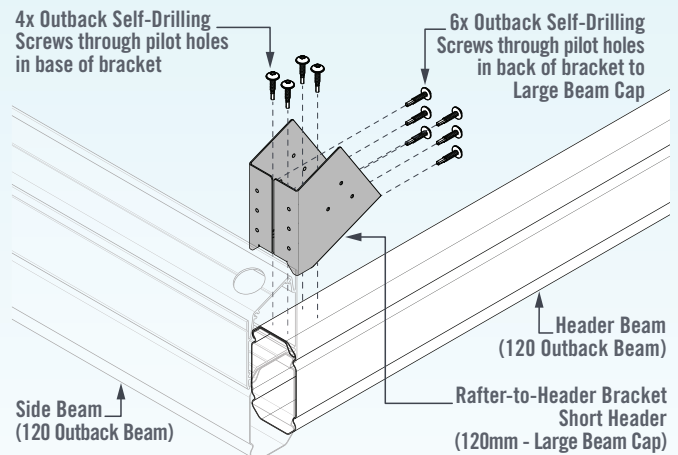


FIGURE 5.15 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

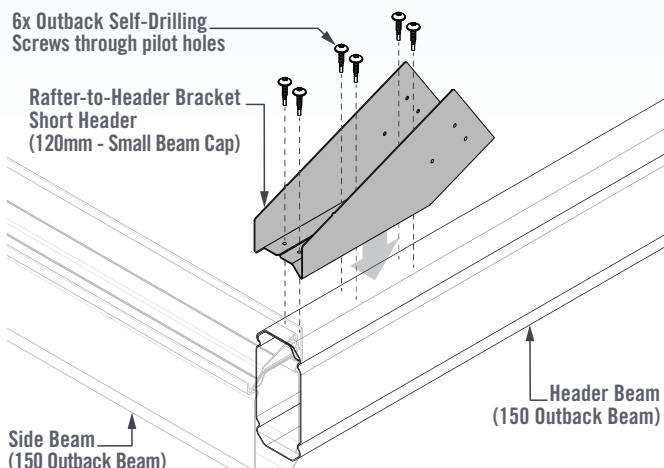


FIGURE 5.13 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

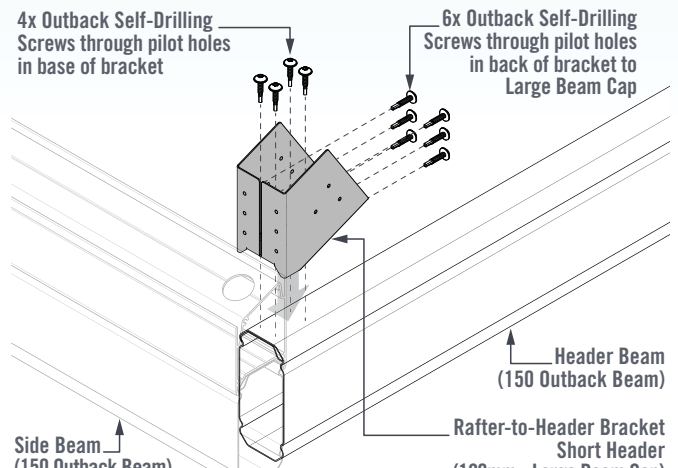


FIGURE 5.16 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

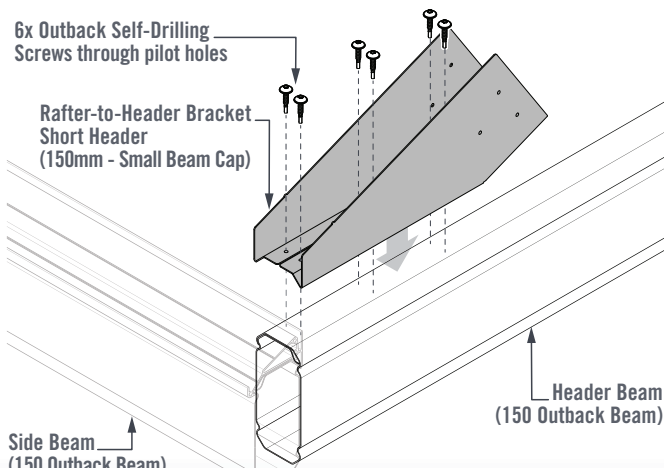


FIGURE 5.14 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

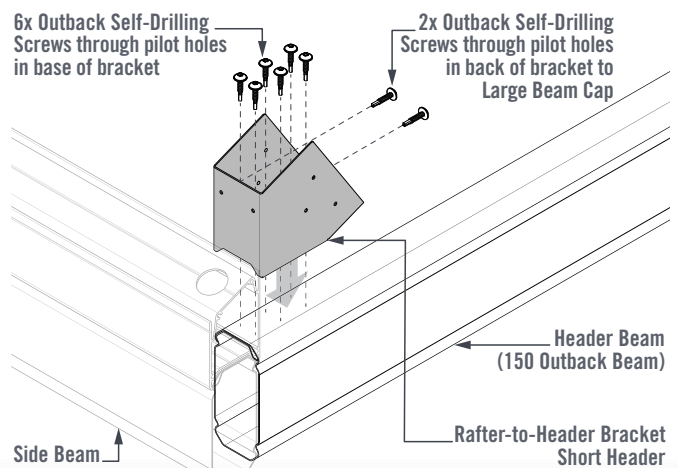


FIGURE 5.17 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

SKIP FORWARD FOR;

Unequal Return Gable Rafter Bracket Installation - Page 16.4

RAFTER TO SHORT HEADER RAFTER INSTALLATION

Lift the Rafter Set into position and ensure it is fully seated in the Rafter-to-Header Bracket at each end of the Header Beam and that the ridge is central.

Fix the Rafter Set at each end of the Header Beam with 3x Outback Self-Drilling Screws through the pilot holes in each side of the Rafter-to-Header Brackets (Figures 5.18 to 5.23).

Repeat this process for the opposite end of the Header Beam.

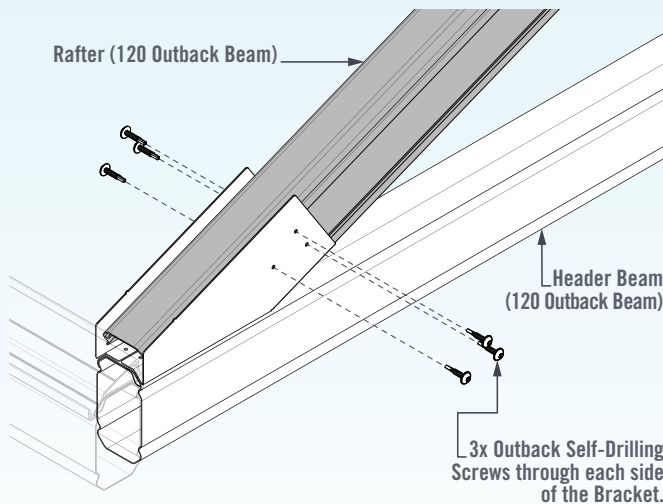


FIGURE 5.18 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

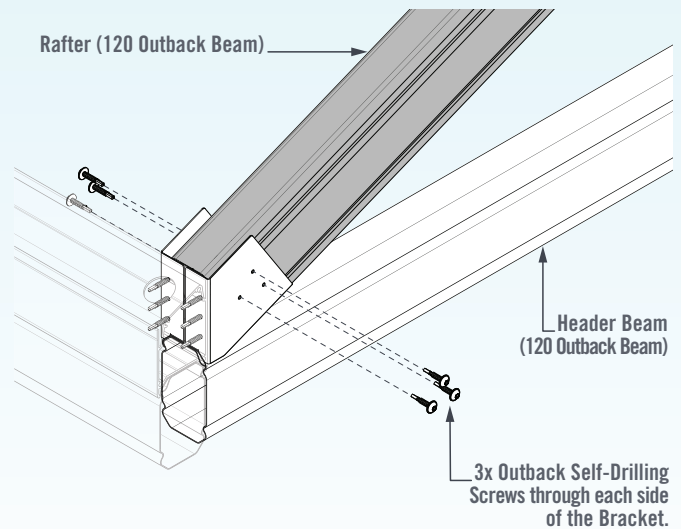


FIGURE 5.21 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

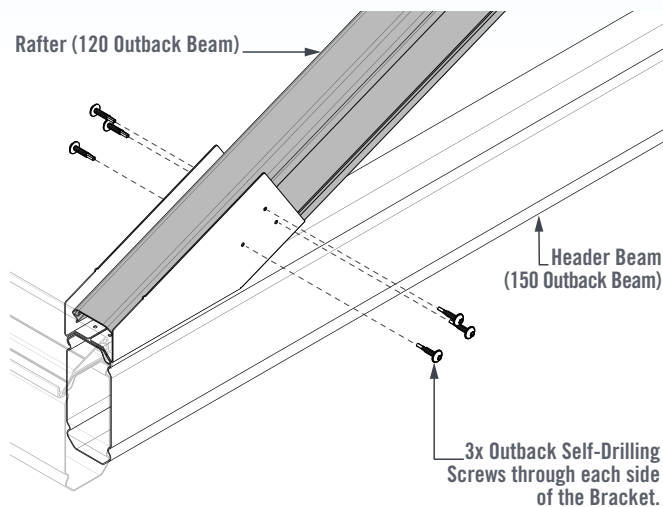


FIGURE 5.19 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

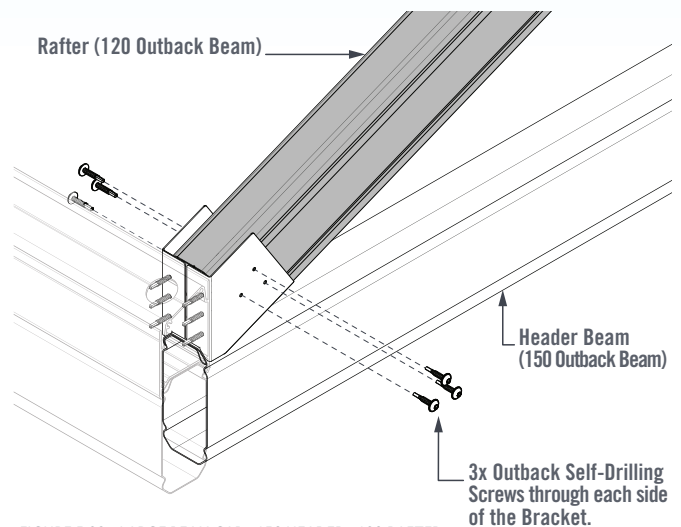


FIGURE 5.22 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

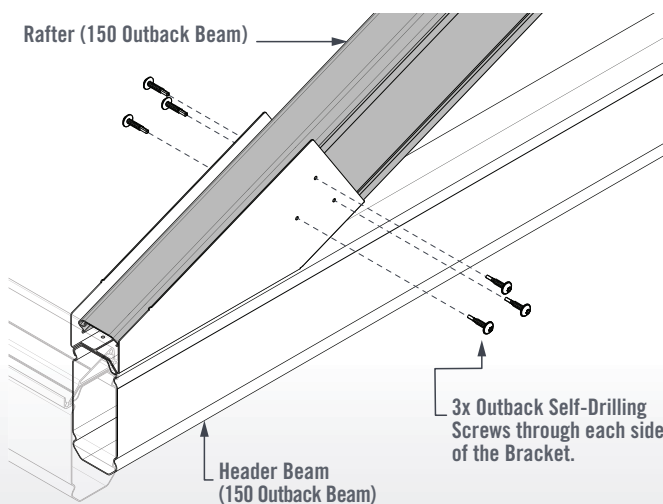


FIGURE 5.20 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

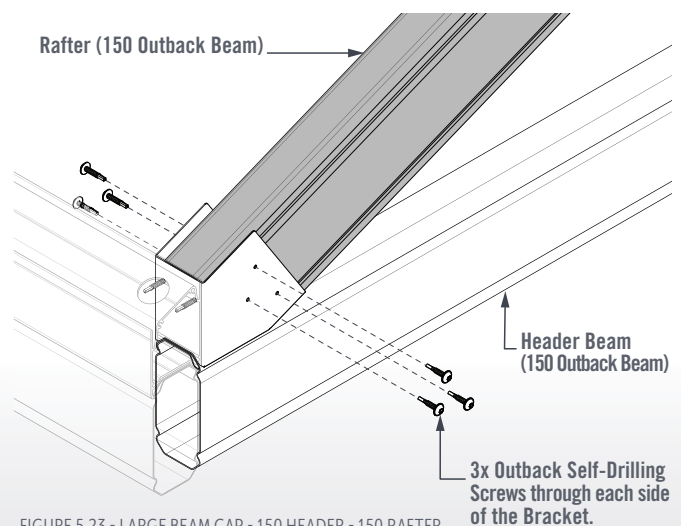


FIGURE 5.23 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

RAFTER TO BEAM INSTALLATION

Lift the Rafter Set into the Rafter-to-Beam Brackets on each side of the unit and ensure the Rafters are fully seated in the bottom of each bracket (Figures 5.24 to 5.29).

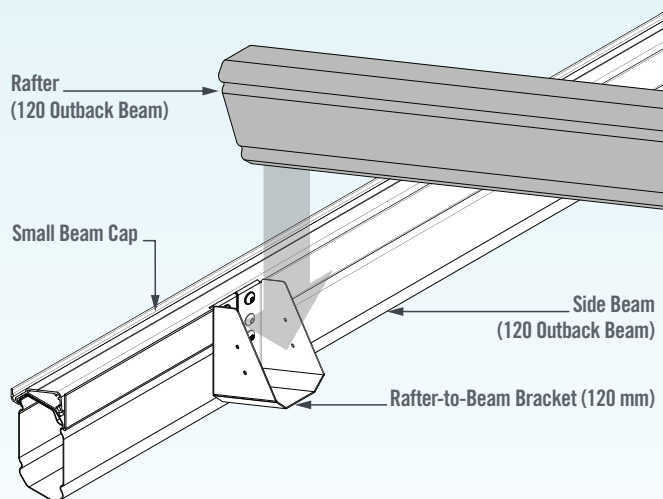


FIGURE 5.24 - SMALL BEAM CAP - 120 SIDE BEAM - 120 RAFTER

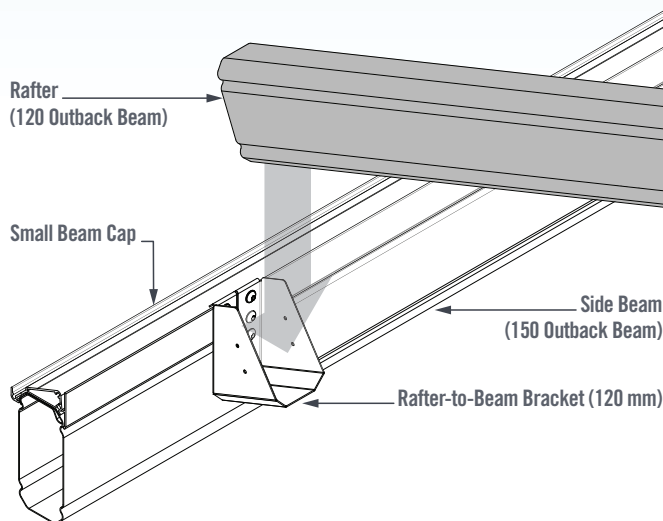


FIGURE 5.25 - SMALL BEAM CAP - 150 SIDE BEAM - 120 RAFTER

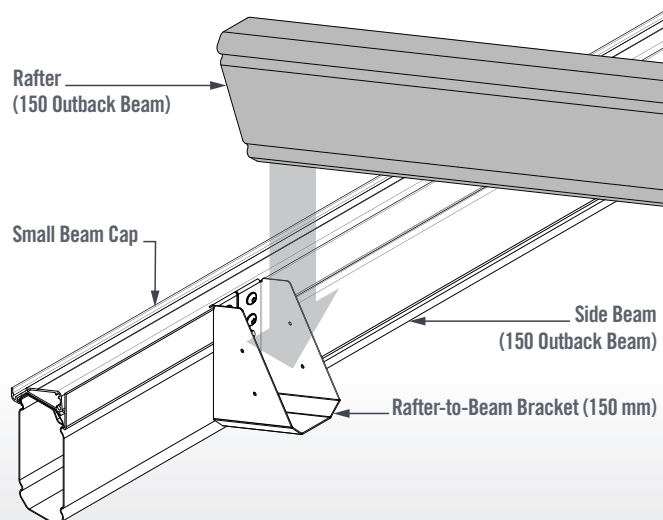


FIGURE 5.26 - SMALL BEAM CAP - 150 SIDE BEAM - 150 RAFTER

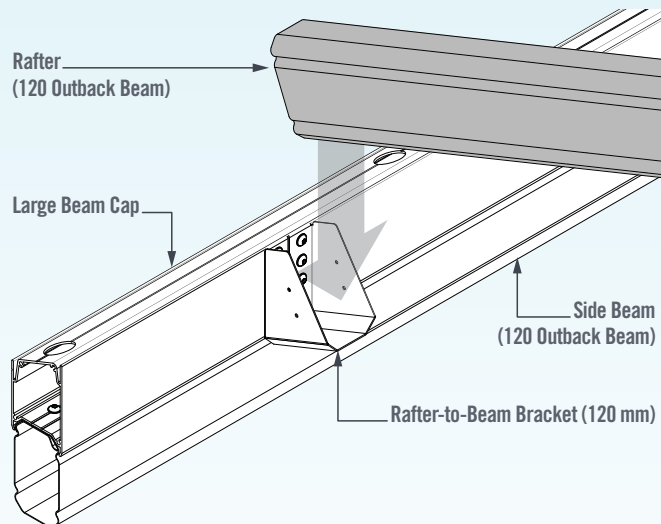


FIGURE 5.27 - LARGE BEAM CAP - 120 SIDE BEAM - 120 RAFTER

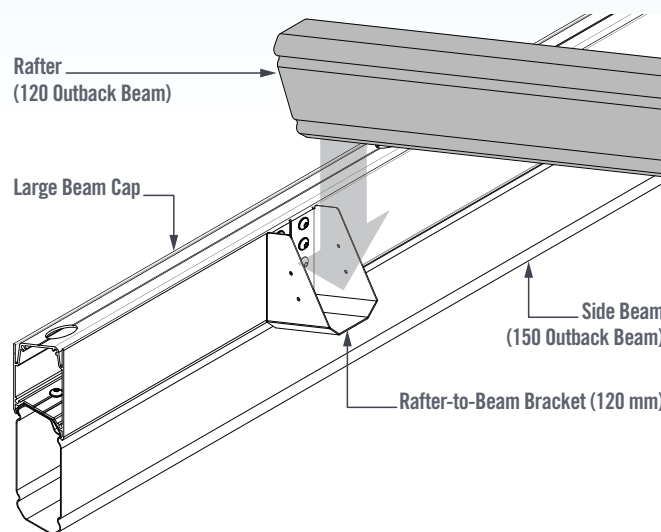


FIGURE 5.28 - LARGE BEAM CAP - 150 SIDE BEAM - 120 RAFTER

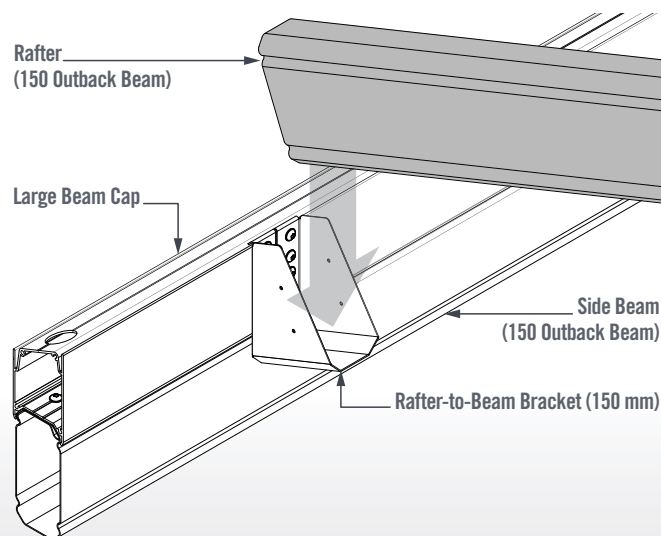


FIGURE 5.29 - LARGE BEAM CAP - 150 SIDE BEAM - 150 RAFTER

Before fixing the Rafters in-place check that the width of the unit is correct according to the Detail Sheets provided (Figure 5.30).

Note: The width and opening width of the gable unit is measured from the outer face of the Side Beams.

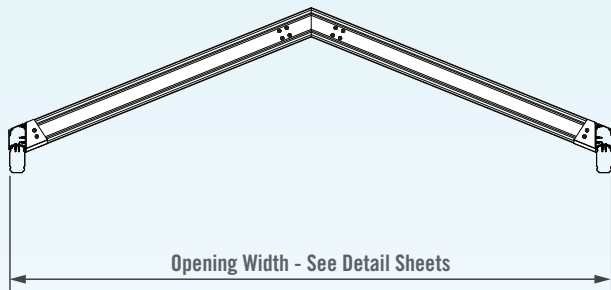


FIGURE 5.30

Check that the basic framework is square by ensuring the diagonal measurements are the same (Figure 5.31).

This should be checked continually throughout the build to ensure the unit is square.

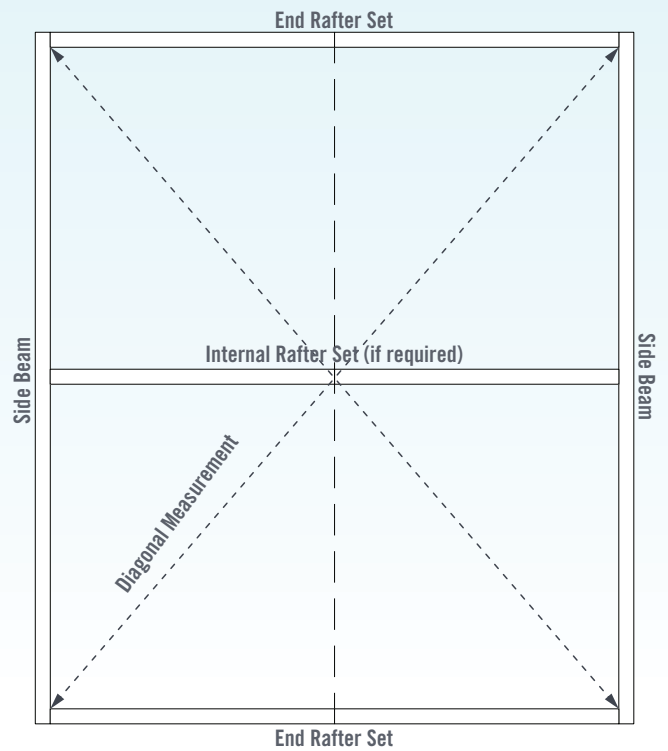


FIGURE 5.31

Fix the Rafters using 2x Outback Self-Drilling Screws through the pilot holes in each side of each Rafter-to-Beam Bracket (Figures 5.32 to 5.37).

SKIP FORWARD FOR;

Split Width Gable Rafter Installation - Page 14.12

Equal Return Gable Rafter Installation - Page 15.7

Hip-End Rafter Installation - Page 18.2

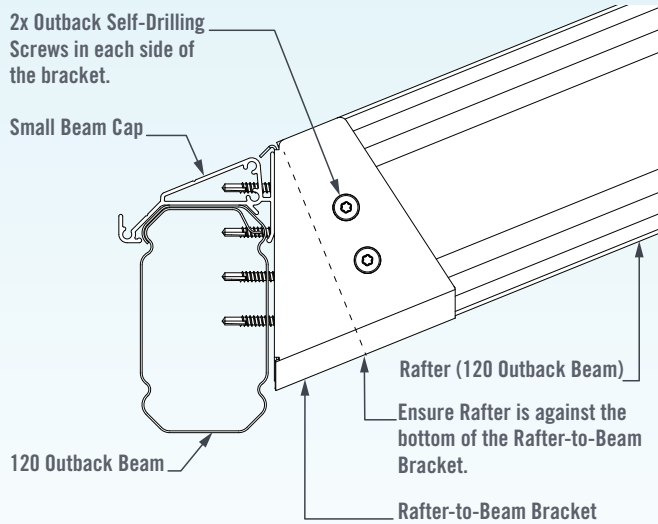


FIGURE 5.32 - SMALL BEAM CAP - 120 SIDE BEAM - 120 RAFTER

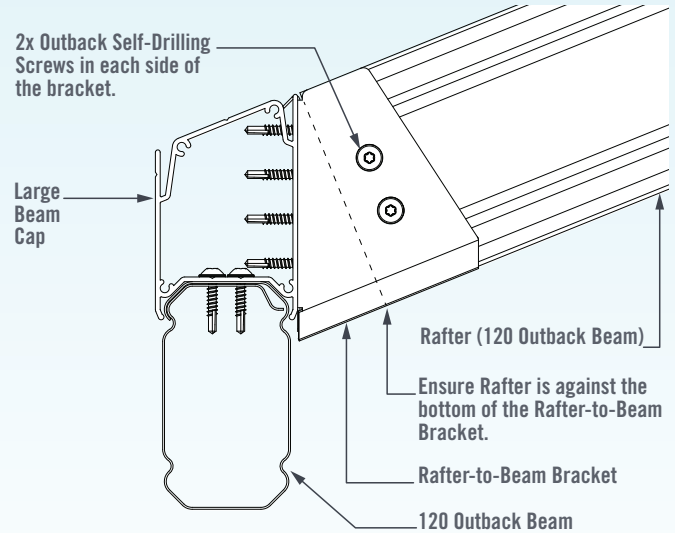


FIGURE 5.35 - LARGE BEAM CAP - 120 SIDE BEAM - 120 RAFTER

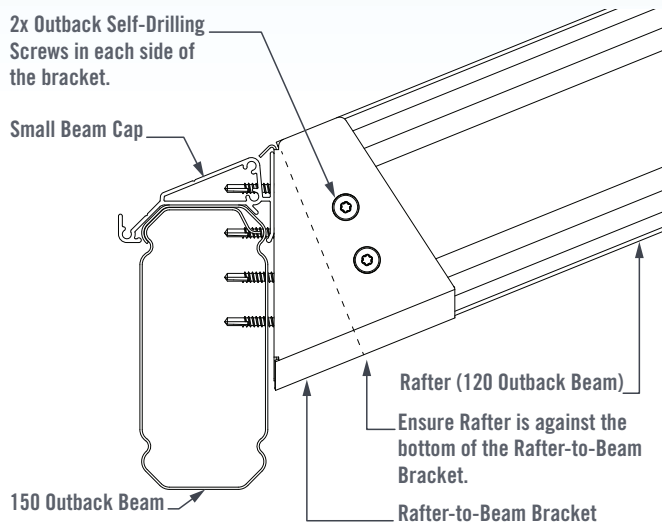


FIGURE 5.33 - SMALL BEAM CAP - 150 SIDE BEAM - 120 RAFTER

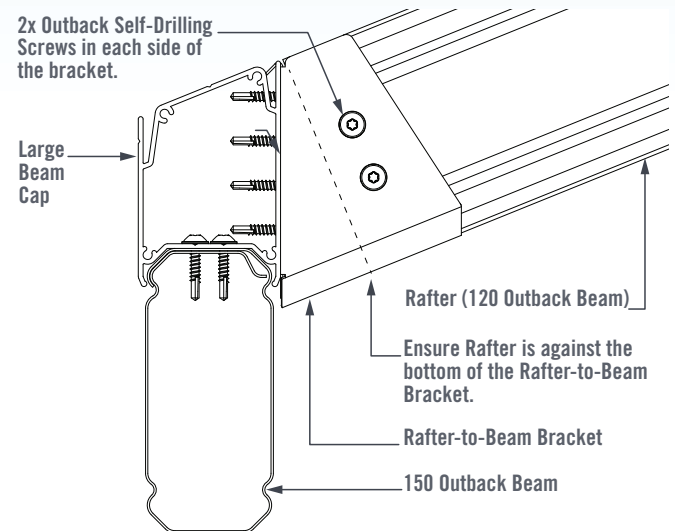


FIGURE 5.36 - LARGE BEAM CAP - 150 SIDE BEAM - 120 RAFTER

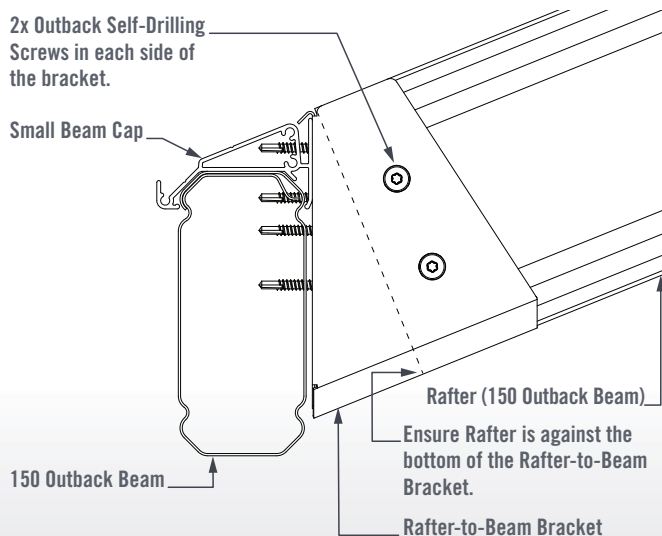


FIGURE 5.34 - SMALL BEAM CAP - 150 SIDE BEAM - 150 RAFTER

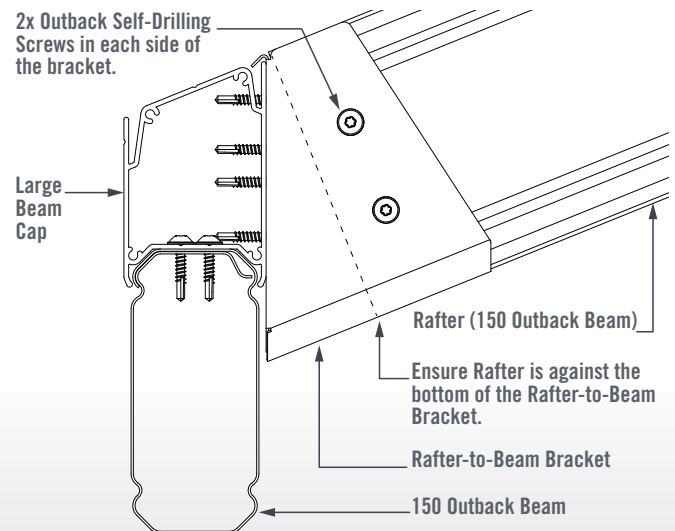


FIGURE 5.37 - LARGE BEAM CAP - 150 SIDE BEAM - 150 RAFTER

STRUT POST INSTALLATION

Note: If struts are required for New Gen. Infill refer to Section 11 - Infill Panel Installation.

Measure and mark the location of the Strut Base Bracket/s on the Header Beam ensuring that it is vertically aligned to the corresponding Strut Apex Bracket (and Strut Angled Bracket if required) (Figure 5.38).

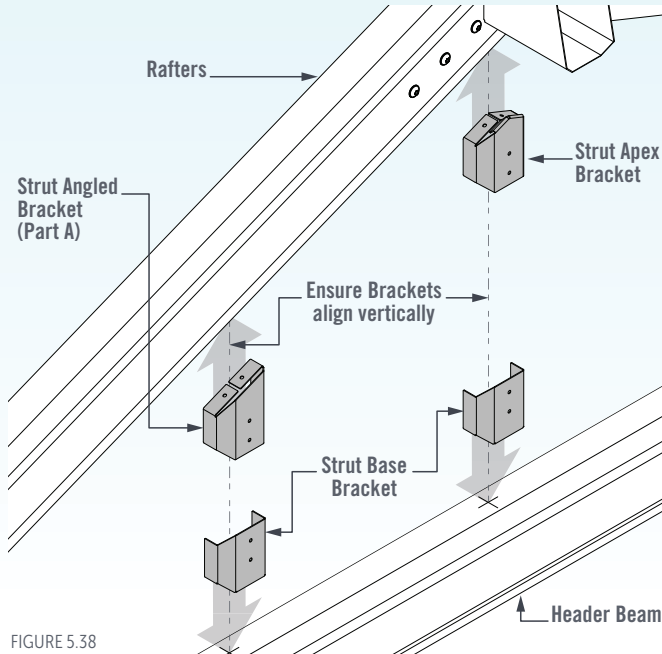


FIGURE 5.38

Fix the Strut Apex Bracket (and Strut Angled Brackets, if required) and Strut Base Bracket/s using 2x Outback Self-Drilling Screws in each bracket through the pilot holes provided (Figure 5.39).

Measure the vertical length between the Strut Apex Bracket (or Strut Angled Bracket, if required) and Strut Base Bracket and cut the 68 Outback Strut Post to length. Position the 68 Outback Strut Post in the brackets (Figure 5.39).

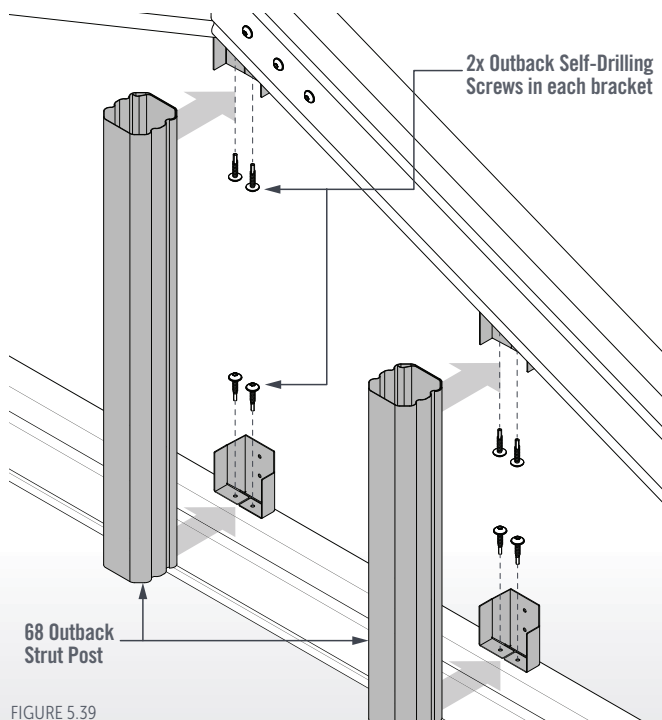


FIGURE 5.39

Fix the 68 Outback Post to the Strut Brackets using 2x Outback Self-Drilling Screws through the pilot holes provided in each bracket (Figure 5.40).

Position the other half of each Strut Bracket on the other side of the 68 Outback Post (Figure 5.40)

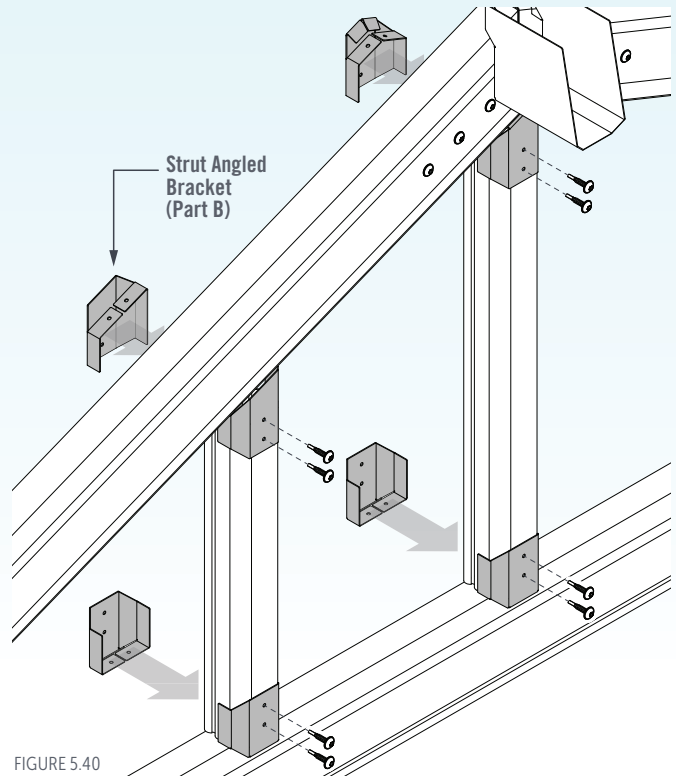


FIGURE 5.40

Fix the remaining Strut Brackets to the 68 Outback Strut Post using Outback Self-Drilling Screws through the pilot holes provided in each bracket.

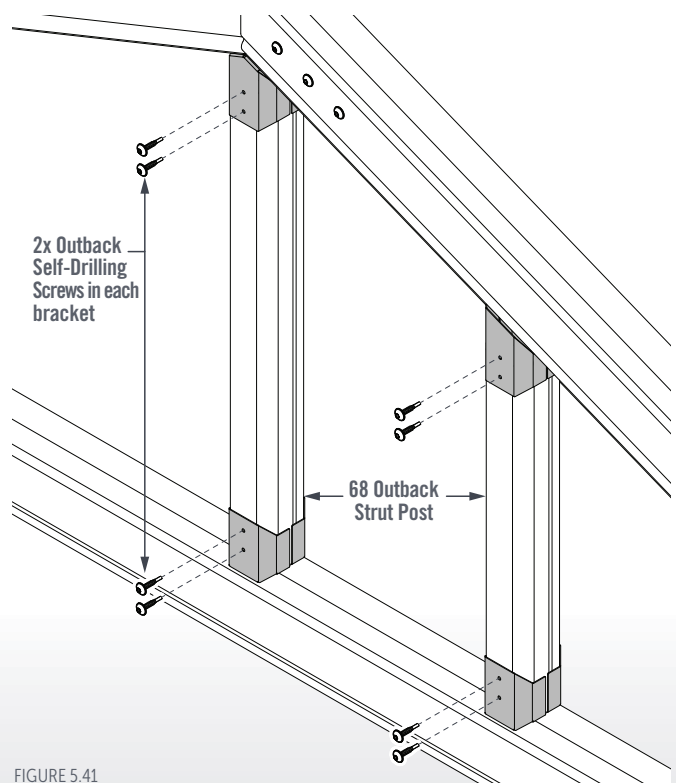


FIGURE 5.41

6. RIDGE INSTALLATION

RIDGE INSTALLATION

RIDGE BEAM

Place the 150mm Outback Ridge Beam into the Ridge-to-Rafter Brackets ensuring that the double thickness section of the beam is at the top (Figures 6.0 & 6.1).

Do not fix the beam to the brackets at this point.

NOTE:

The Ridge Beam is supplied to the exact length required. Rafters may need to be flexed out slightly to fit the Ridge Beam into the Ridge-to-Rafter Brackets.

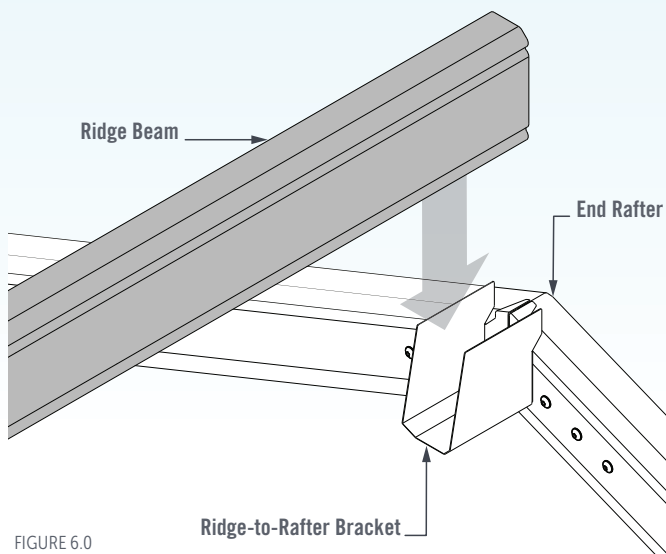


FIGURE 6.0

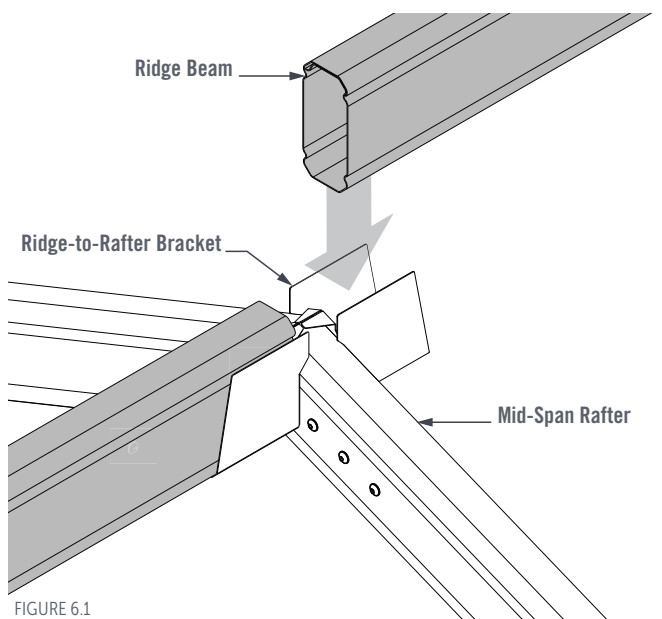


FIGURE 6.1

SKIP FORWARD FOR;

Intersecting Gable Ridge Installation - Page 17.2

RIDGE EXTRUSION

Place the Ridge Extrusion over the top of the Ridge Beam(s). The Ridge Extrusion covers the top of the Ridge-to-Rafter Brackets and rests on top of the Rafters (Figures 6.2 & 6.5).

Ridge Extrusion will be supplied at maximum length and will often run over mid-span Rafters. Where possible, any joints in Ridge Extrusion should occur over Rafters, to avoid visible butt-joints.

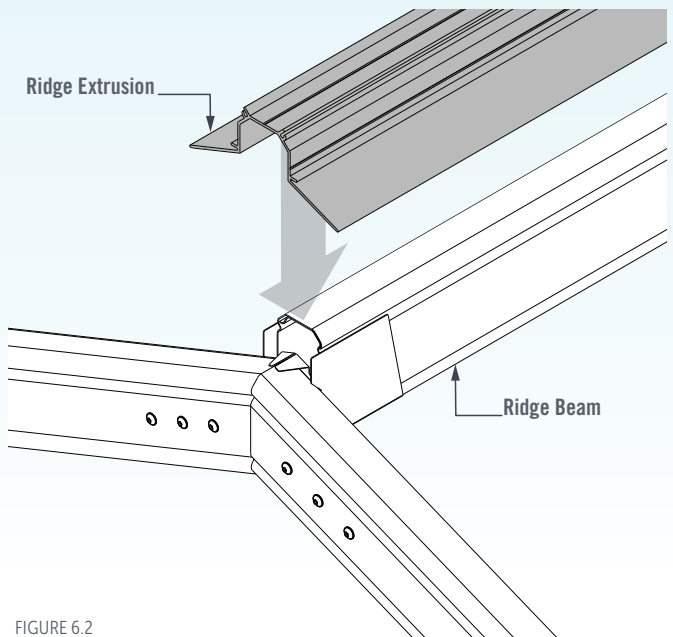


FIGURE 6.2

Ensure that the Ridge Extrusion extends to both ends of the gable unit and is situated approximately 15mm from the outside face of the End Rafters (Figure 6.3).

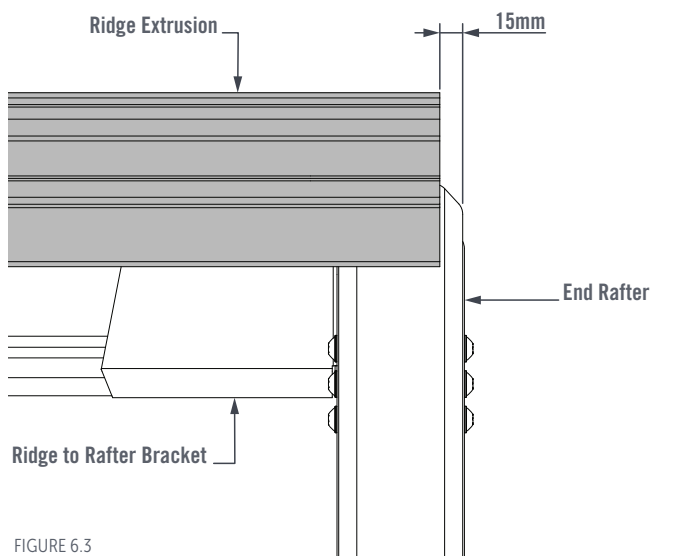


FIGURE 6.3

Ensure Rafters are vertical and the correct distance from each other, then fix the Ridge Extrusion to the Ridge Beam using 4x Outback Self-Drilling Screws through the Fixing Channels in each side of the Ridge Extrusion and through the Ridge-to-Rafter Brackets and Ridge Beam (Figures 6.4 & 6.5).

Note: Outback Gable units have been engineered to avoid any visible fixings into the Ridge-to-Rafter Brackets.

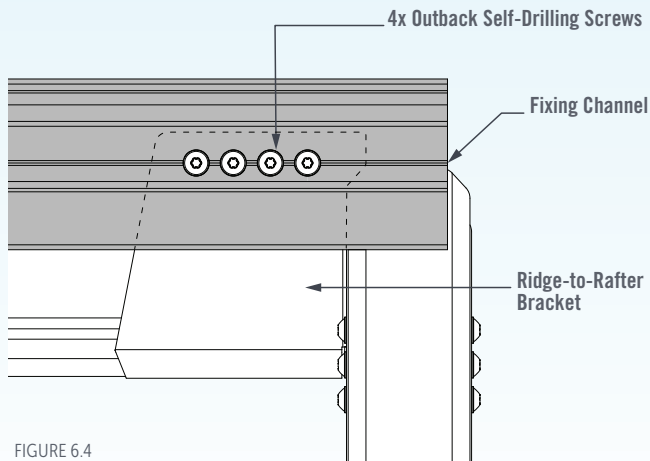


FIGURE 6.4

Continue to secure the Ridge Extrusion through the Fixing Channels to each side of the Ridge Beam using Outback Self-Drilling Screws at a maximum spacing of 500mm centres (Figures 6.5 & 6.6).

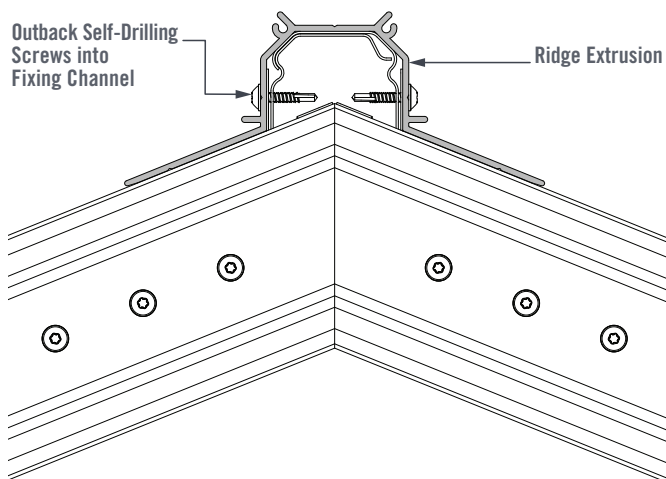


FIGURE 6.5

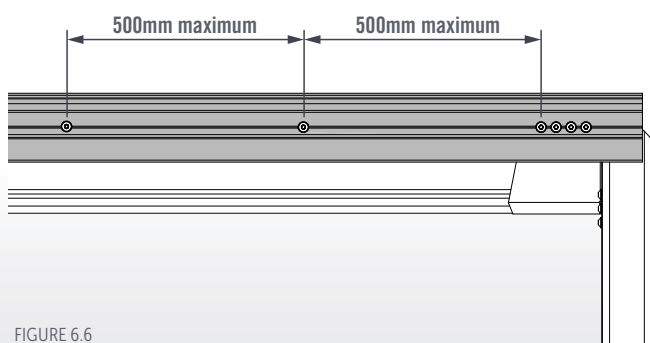


FIGURE 6.6

RIDGE OVERHANG

Follow these steps if a Ridge overhang is required. Refer to detail sheets for further details and dimensions.

An overhanging Ridge Beam section will need to be temporarily clamped to the Ridge Extrusion to hold it in-place.

A maximum overhang of 600mm is allowed (Figure 6.7).

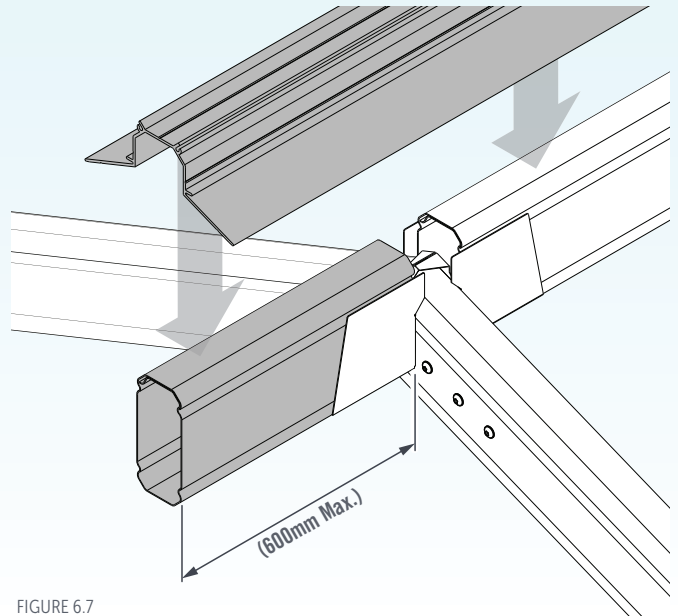


FIGURE 6.7

Fix the Ridge Extrusion to the overhanging Ridge Beam with 4x Outback Self-Drilling Screws through either side of the Ridge-to-Rafter Bracket, and screws either side along the Ridge Extrusion at maximum 300mm centres (Figure 6.8).

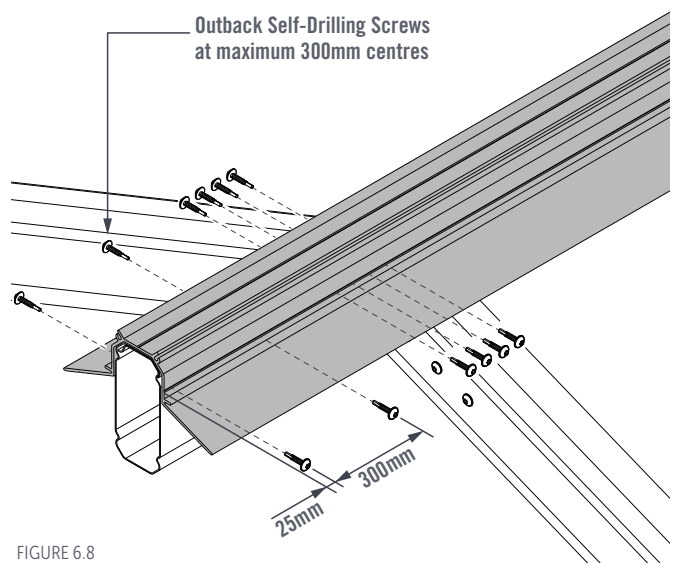


FIGURE 6.8

SKIP FORWARD FOR:

Equal Return Gable Ridge Installation - Page 15.12

Unequal Return Gable Ridge-to-Rafter Beam Installation - Page 16.5

7. PURLIN INSTALLATION

PURLIN INSTALLATION

PURLIN BRACKET SPACING

Measure and mark the locations for the Purlin Brackets on the top face of each Rafter.

Refer to the Detail Sheets for the required Purlin placement and dimensions.

Purlins must be a maximum 950mm from the Ridge Extrusion fixing for CGI and a maximum of 800mm for Corrugated Polycarbonate (Figure 7.0).

Spacing between Purlins must be a maximum of 1200mm for CGI and 1000mm for Corrugated Polycarbonate (Figure 7.0).

Use a string line along the length of the unit to ensure the Purlins are accurately aligned with each rafter.

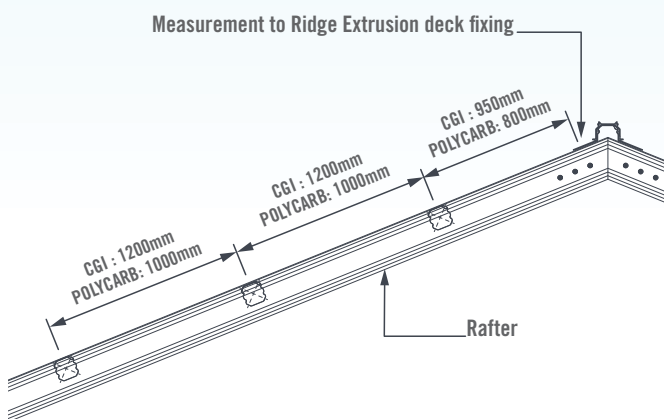


FIGURE 7.0

68 PURLIN BRACKETS

Position the Purlin Bracket on the Rafter and fix through the pilot holes in the back of the Purlin Bracket using 2x Outback Self-Drilling Screws (Figure 7.1).

Ensure back-to-back Purlin Brackets are properly aligned (Figure 7.1).

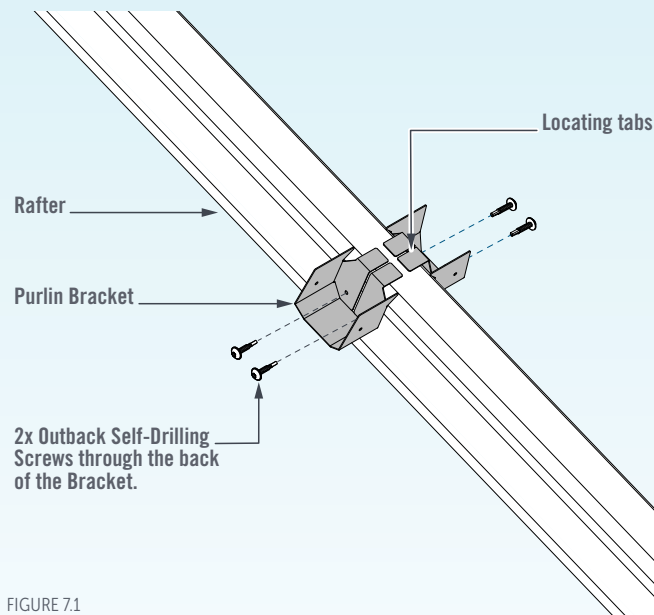


FIGURE 7.1

120 PURLIN BRACKETS

Position the Purlin Bracket on the Rafter and fix through the pilot holes in the back of the Purlin Bracket using 4x Outback Self-Drilling Screws (Figure 7.2).

Ensure back-to-back Purlin Brackets are properly aligned (Figure 7.2).

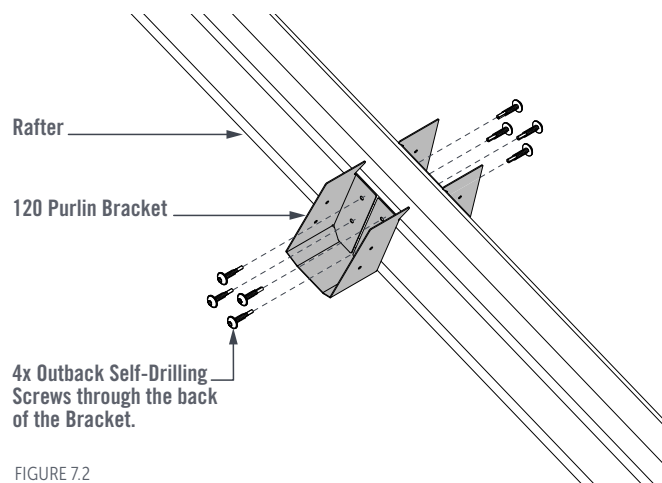


FIGURE 7.2

SKIP FORWARD FOR:

Equal Return & Unequal Return Gable Purlin Bracket Installation - Page 15.13

Hip-End Gable Purlin Bracket Installation - Page 15.14

68 PURLIN INSTALLATION

Cut the Purlins to length (refer to the Detail Sheets for required purlin lengths) and place in the Purlin Brackets with the double thickness of the beam facing upwards and the seam facing the ridge (Figure 7.5)

Fix the Purlin through the pilot holes on either side of the Purlin Bracket using Outback Self-Drilling Screws (Figure 7.6).

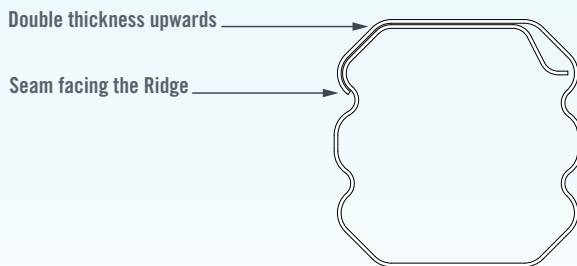


FIGURE 7.5

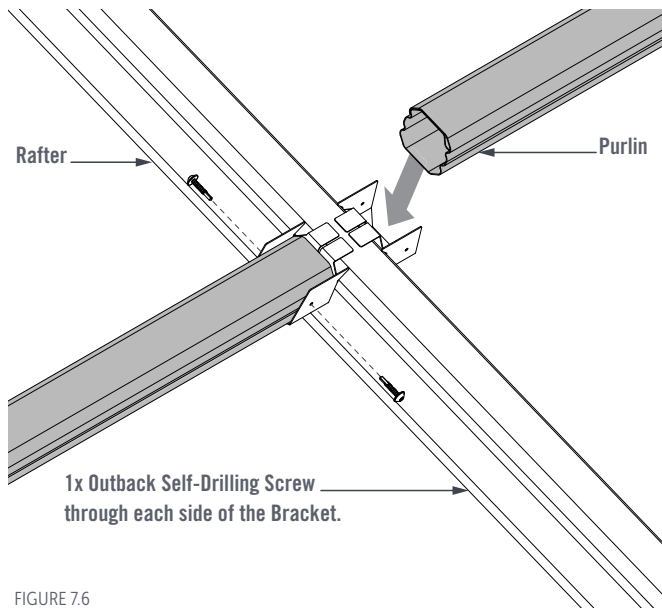


FIGURE 7.6

120 PURLIN INSTALLATION

Cut the Purlins to length (refer to the Detail Sheets for required purlin lengths) and place in the Purlin Brackets with the double thickness of the beam facing upwards and the seam facing the ridge (Figure 7.7)

Fix the Purlin through the pilot holes on either side of the Purlin Bracket using Outback Self-Drilling Screws (Figure 7.8).

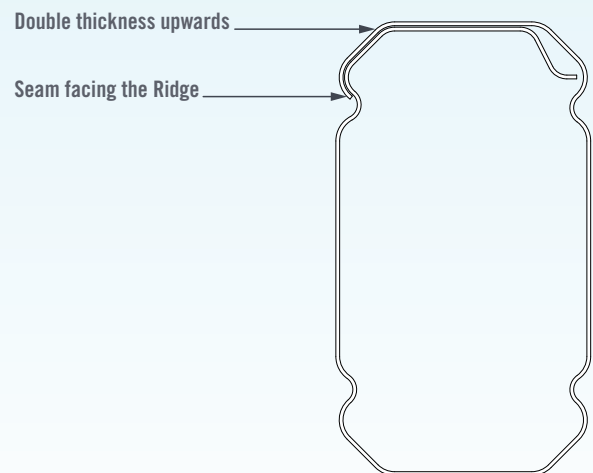


FIGURE 7.7

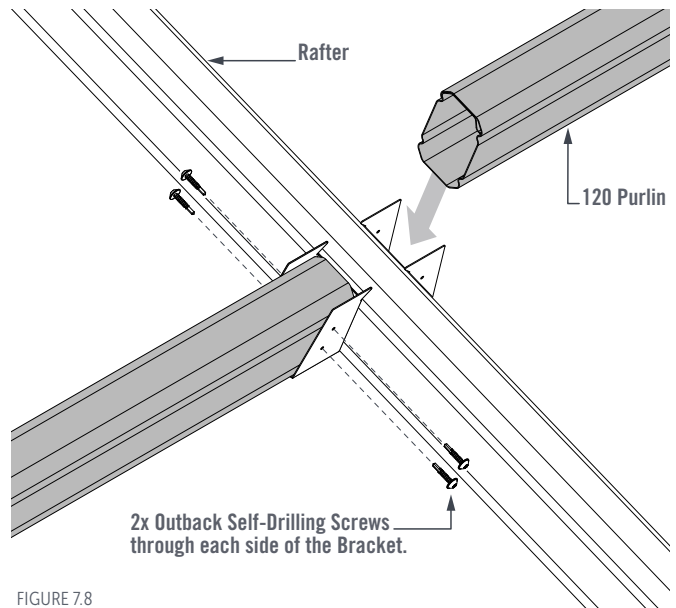


FIGURE 7.8

SKIP FORWARD FOR;

Equal Return Gable Purlin Installation - Page 15.14

8. GUTTER INSTALLATION

DOWNPIPE OUTLETS

Note: Refer to the "Stratco Edge 160 Gutter Mitring Guide" for further detail and templates.

If using a 100x50 PVC Downpipe Outlet, use the Outlet as a guide and mark-out and cut an 86mm x 46mm hole in the base of the Gutter near the back edge and aligned with a column.

Using the Downpipe Outlet as a guide, mark and drill 4x Ø3.2mm holes for rivets.

Insert the downpipe outlet from the inside of the Gutter. Fix from the underside using Ø3.2mm rivets and waterproof with silicone (Figure 8.1).

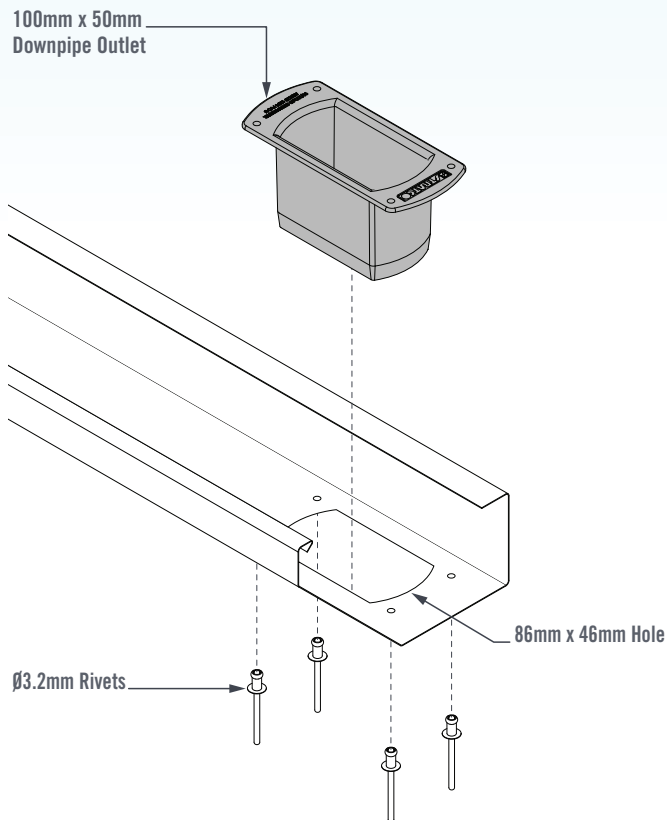


FIGURE 8.1

If using a 100x75 PVC Downpipe Outlet, mark out and cut a 98mm x 68mm hole in the base of the Gutter near the back edge and aligned with a column.

Using the Downpipe Outlet as a guide, mark and drill 4x Ø3.2mm holes for rivets.

Insert the downpipe outlet from the inside of the Gutter. Fix from the underside using Ø3.2mm rivets and waterproof with silicone (Figure 8.2).

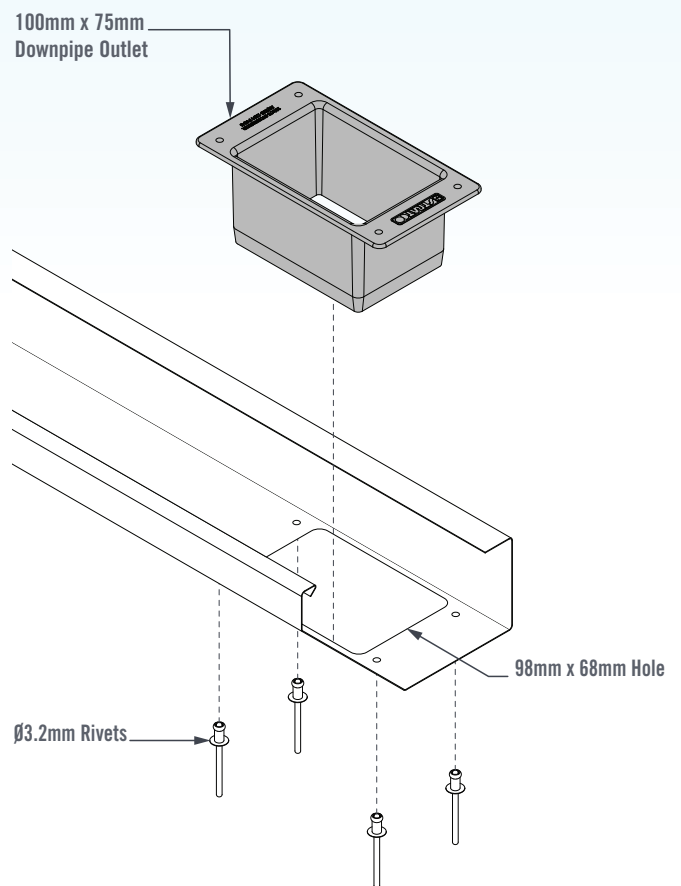


FIGURE 8.2

GUTTER STOP-ENDS

Fix Gutter Stop-Ends to the Gutter using colour matched rivets (Figure 8.3).

Brush out any swarf and use silicone to seal along the joins on the inside of the gutter.

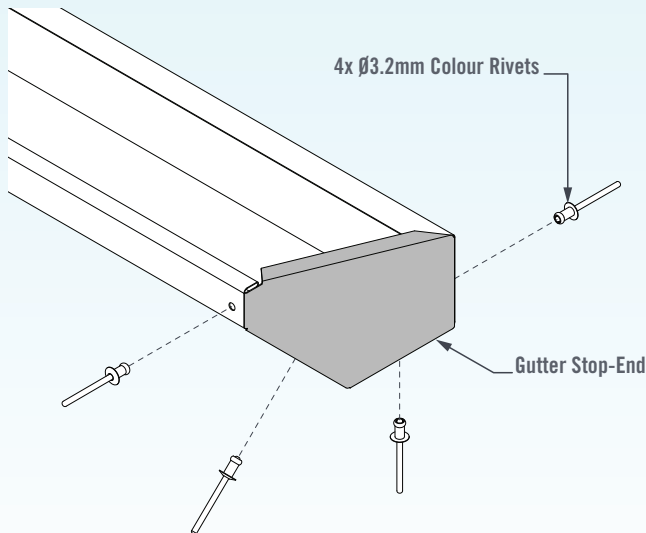


FIGURE 8.3

SKIP FORWARD FOR;

Split Width Gable - Gutter Installation - Page 14.16
Equal Return Gable - Hip-Valley Rafter Preparation - Page 15.15
Unequal Return Gable - Valley Rafter Preparation - Page 16.6
Hip End Gable - Hip Support Flashing - Page 18.4

GUTTER PREPARATION

(FOR OUTBACK DECK, CGI & POLYCARB ROOFING)

Fix the Gutter Clips to the horizontal lip on the back of the Gutter using size Ø3.2mm Rivets at a maximum spacing of 500mm between clips and 50mm from the end (Figure 8.4).

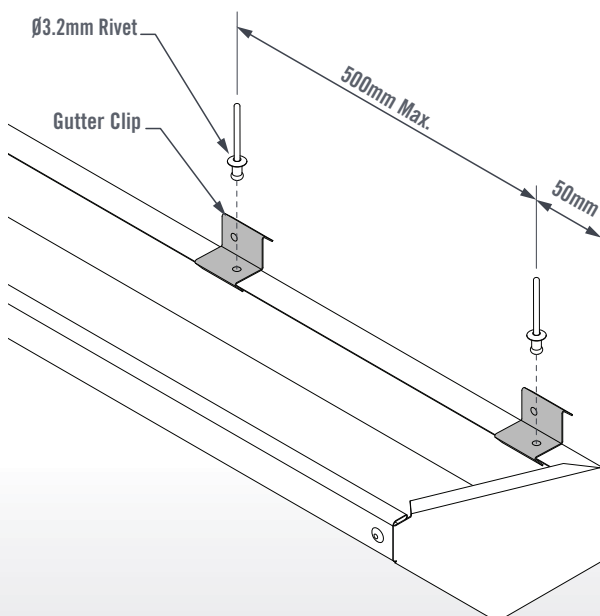


FIGURE 8.4

GUTTER INSTALLATION

(FOR OUTBACK DECK, CGI & POLYCARB ROOFING)

Lift the Gutter into position and hook the Gutter Clips onto the channels on the outside edge of the Beam Cap (Figures 8.5 & 8.6)

Fix the Gutter Clips to the Small Beam Cap using Ø3.2mm through the pilot holes provided (Figure 8.5).

Fix the Gutter Clips to the Large Beam Cap using Outback Self-Drilling Screws through the pilot holes provided (Figure 8.6).

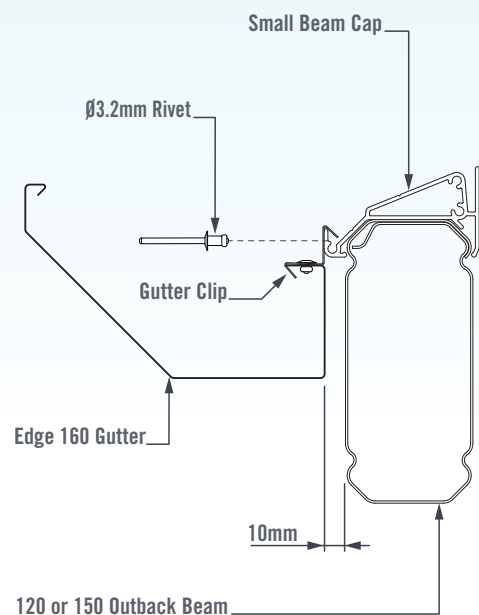


FIGURE 8.5

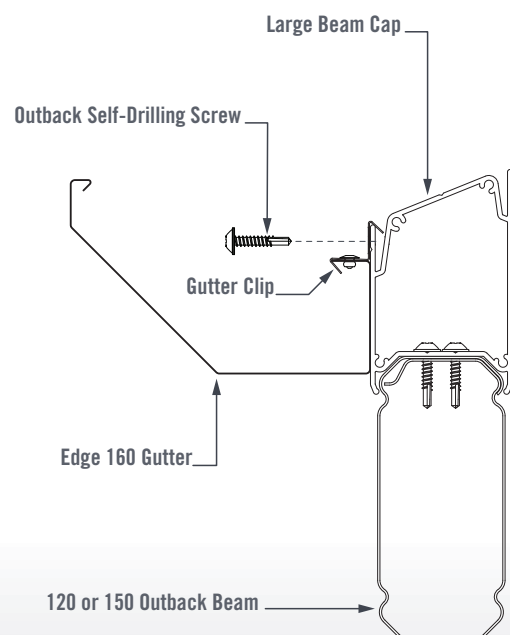


FIGURE 8.6

GUTTER PREPARATION (FOR COOLDEK WITH SMALL BEAM CAP)

Fix the Cutback Flashing to the Gutter using Ø3.2mm rivets at 500mm maximum spacing (Figures 8.7 to 8.10).

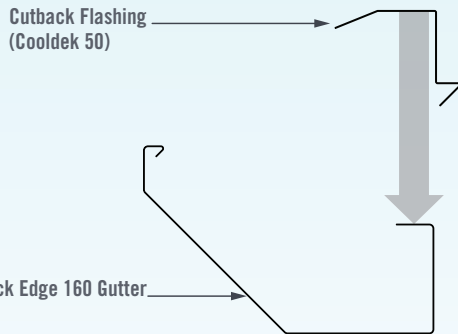


FIGURE 8.7

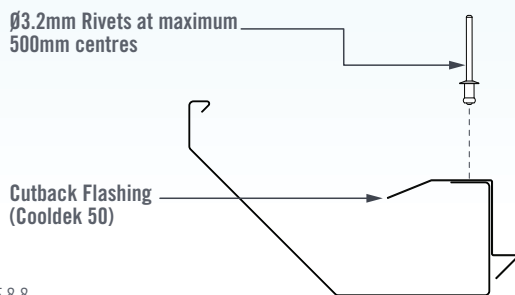


FIGURE 8.8

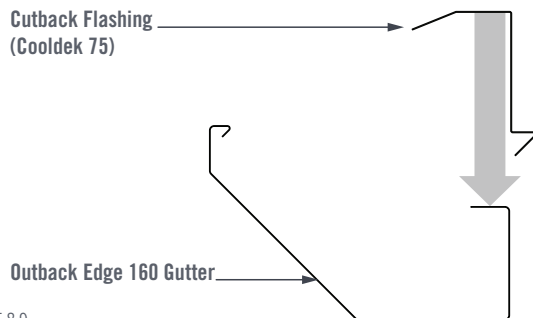


FIGURE 8.9

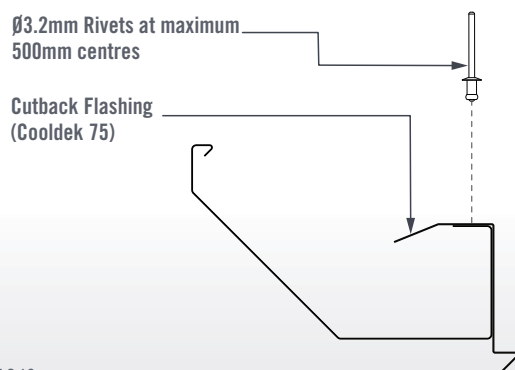


FIGURE 8.10

GUTTER INSTALLATION (FOR COOLDEK WITH SMALL BEAM CAP)

NOTE:

Refer to Section 9 - Roofing Installation prior to this step.

Lift the Gutter into position and hook the locating tab of the Cutback Flashing into the channel on the low side of the Small Beam Cap (Figure 8.11 & 8.12).

Hold the Gutter in position and lift the Cooldek Sheets into position on the Small Beam Cap. This will hold the Cutback Flashing and the Gutter in position (Figures 8.11 & 8.12).

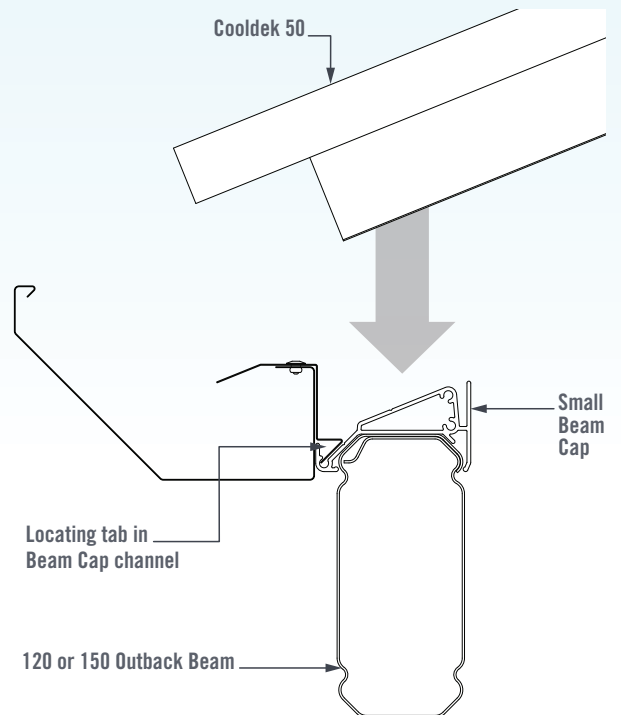


FIGURE 8.11

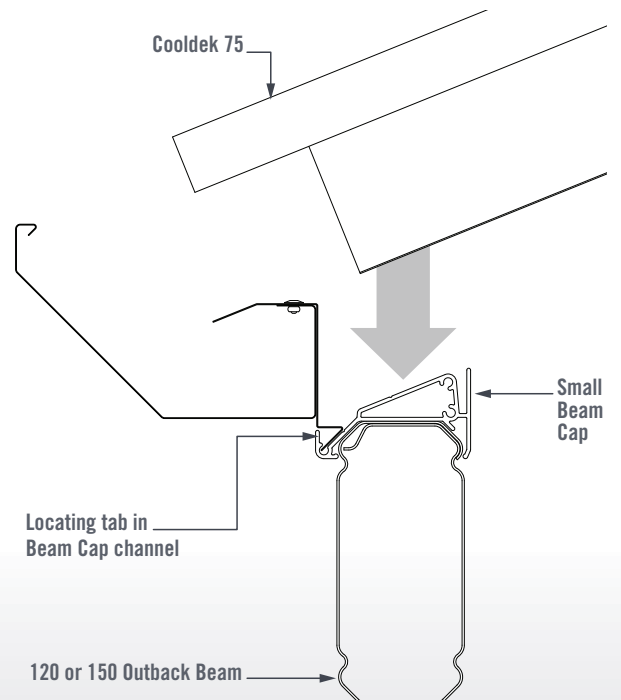


FIGURE 8.12

Fix the top sheet of the Cooldek to the Cutback Flashing using Ø3.2mm rivets at 500mm maximum centres (Figures 8.13 & 8.14).

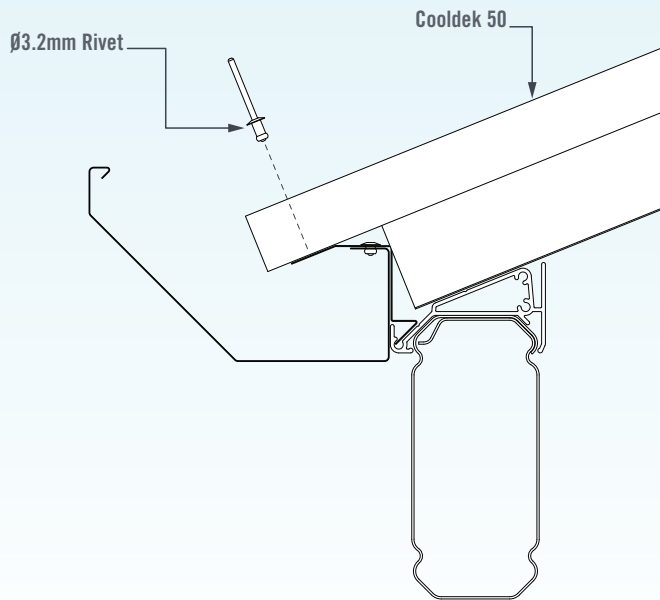


FIGURE 8.13

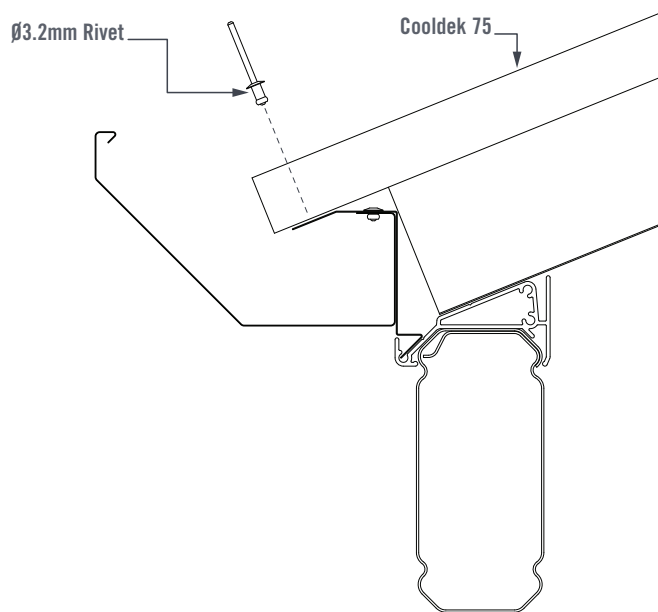


FIGURE 8.14

CUTBACK FLASHING INSTALLATION (FOR COOLDEK WITH LARGE BEAM CAP)

Place the Cutback Flashing in the channel on the low side of the Large Beam Cap (Figures 8.15 & 8.16).

Fix the Cutback Flashing in-place using Outback Self-Drilling Screws at maximum 500mm spacing through the fixing channel provided on the face of the Large Beam Cap (Figures 8.15 & 8.16).

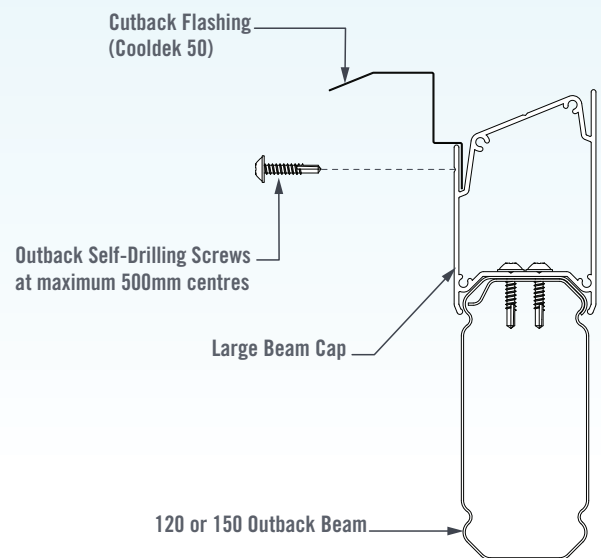


FIGURE 8.15

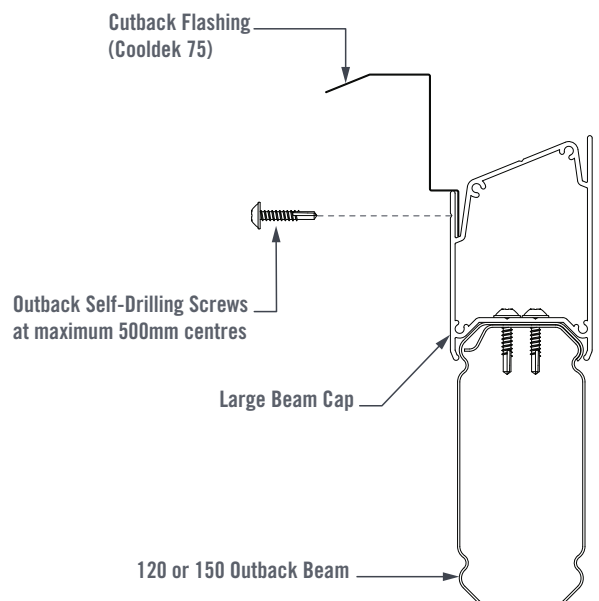


FIGURE 8.16

Lift the Gutter into position so that it is firmly against the corner of the Cutback Flashing (Figures 8.17 & 8.18).

Fix the Gutter through the top face of the Cutback Flashing using Ø3.2mm rivets at 500mm maximum spacing (Figures 8.17 & 8.18).

The Cutback Flashing is fixed to the Cooldek after roofing has been installed.

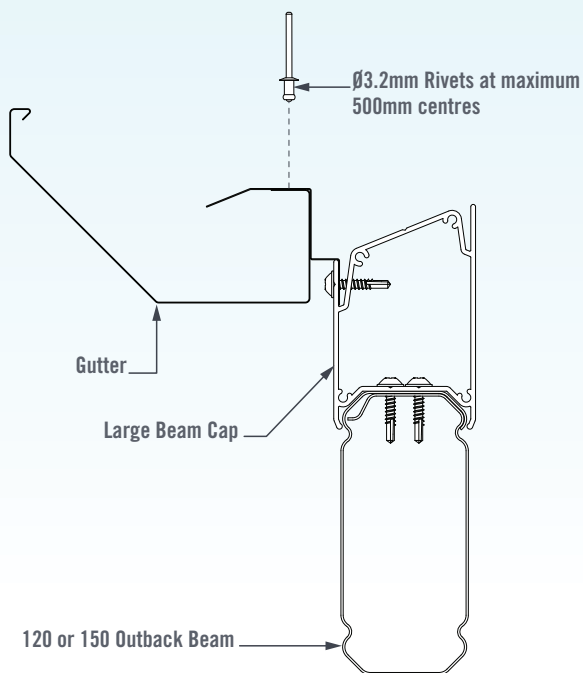


FIGURE 8.17

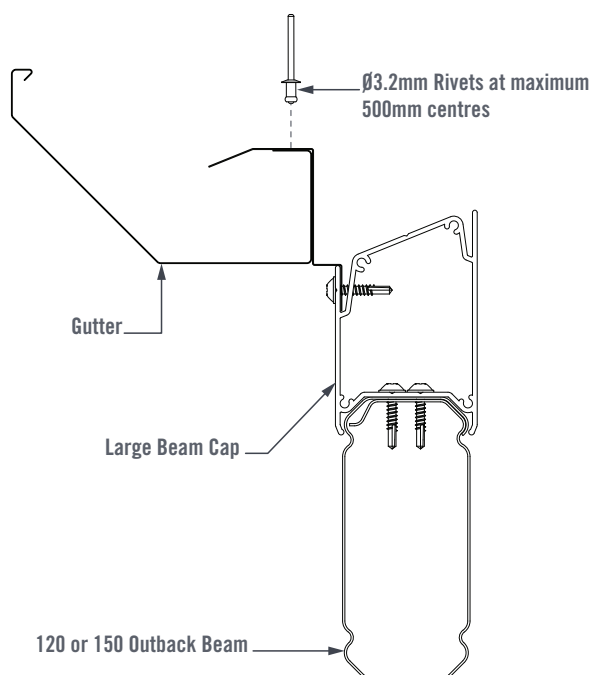


FIGURE 8.18

SKIP FORWARD FOR;

Unequal Return Gable - Valley Gutter Installation - Page 16.11

HEADER BEAM PERIMETER GUTTER INSTALLATION

For instances where the Gutter continues around the unit and along the Header Beam, a Perimeter Gutter Support is supplied. The Perimeter Gutter Support Flashing positions the Gutter at the same height all the way around the unit.

NOTE:

Refer to Page 15.21 for External Gutter Mitre details.

IMPORTANT NOTE:

If an Infill Panel is being installed, refer to Page 11.15 for further detail.

OUTBACK DECK & CGI - SMALL BEAM CAP

Fix Perimeter Gutter Support Flashing to the Header Beam with Outback Self-Drilling Screws at maximum 500mm centres (Figures 8.19 & 8.20).

Lift the Gutter into position and fix it to the Perimeter Gutter Support using Ø3.2mm rivets at 500mm maximum spacing (Figures 8.19 & 8.20).

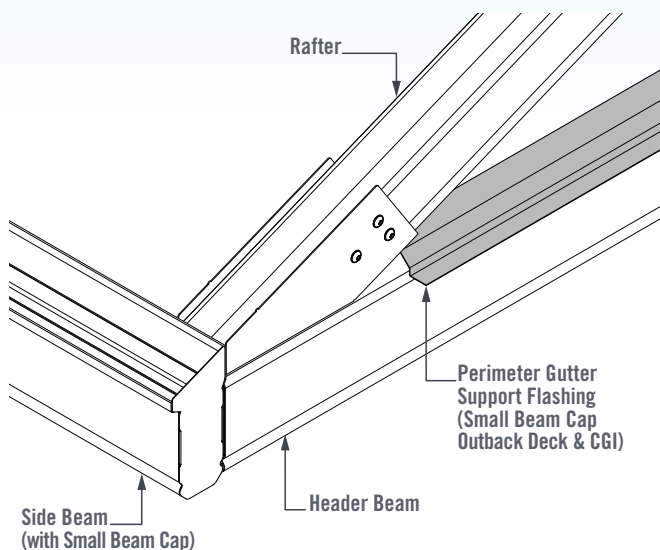


FIGURE 8.19 - OUTBACK DECK & CGI WITH SMALL BEAM CAP

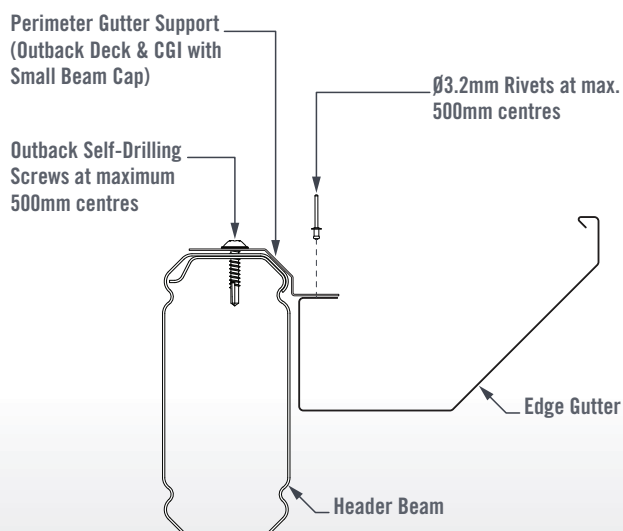


FIGURE 8.20 - OUTBACK DECK & CGI WITH SMALL BEAM CAP

**OUTBACK DECK & CGI -LARGE BEAM CAP
COOLDEK - SMALL & LARGE BEAM CAP**

NOTE:

In some instances a "Perimeter Gutter Support Cover Flashing" may be required (Figures 8.21 & 8.22).

Fix the Perimeter Gutter Support Cover Flashing to the Perimeter Gutter Support Flashing using Ø3.2mm Colour Rivets at maximum 500mm centres (Figures 8.21 & 8.22).

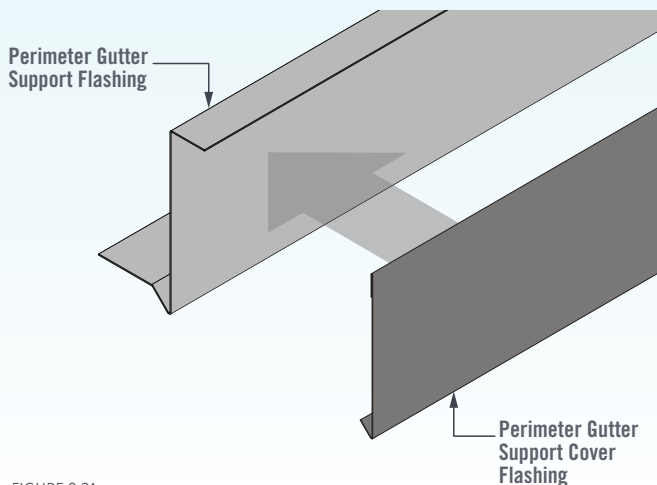


FIGURE 8.21

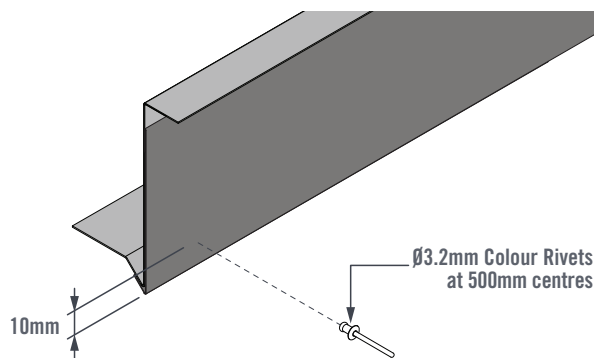


FIGURE 8.22

Fix Perimeter Gutter Support to the Header Beam with Outback Self-Drilling Screws at maximum 500mm centres (Figures 8.23 & 8.24). Fix the vertical face of the Perimeter Gutter Support Flashing to the outer face of the Rafters using 1x Outback Self-Drilling Screw at each end (Figure 8.23).

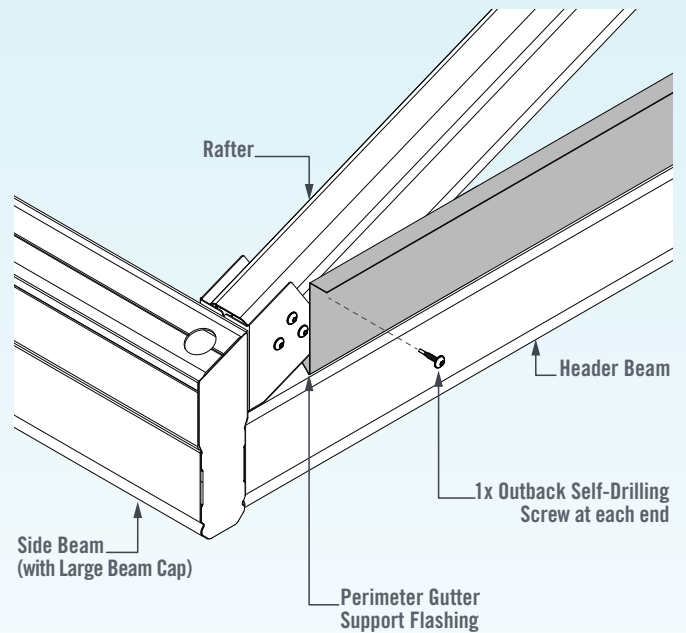


FIGURE 8.23

Lift the Gutter into position and fix it to the Perimeter Gutter Support using Ø3.2mm rivets at 500mm maximum spacing (Figure 8.24).

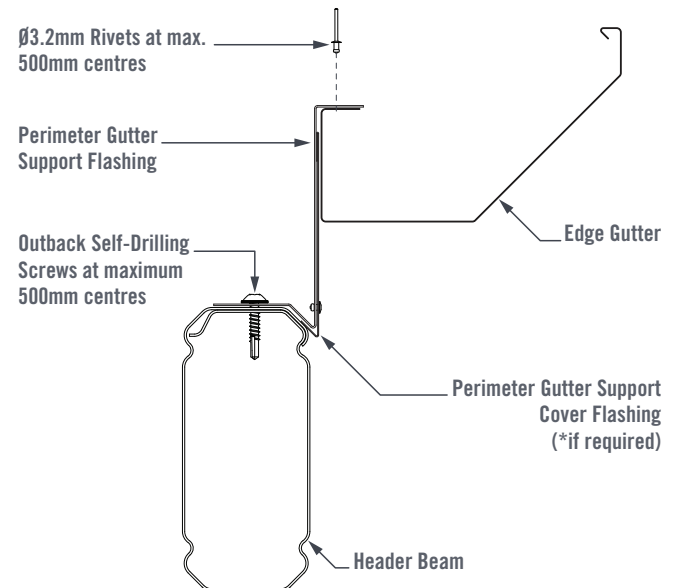


FIGURE 8.24

9. ROOFING INSTALLATION

ROOF SHEET PREPARATION

To avoid water ingress, before installing the roof sheets, the valleys or pans on the high end of the roof sheets need to be turned up using a turn-up tool, locking pliers, or an adjustable spanner (Figures 9.0 to 9.3).

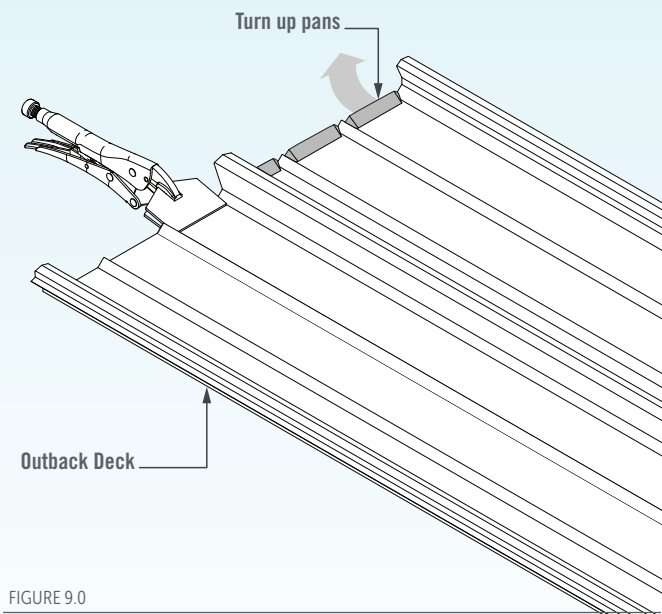


FIGURE 9.0

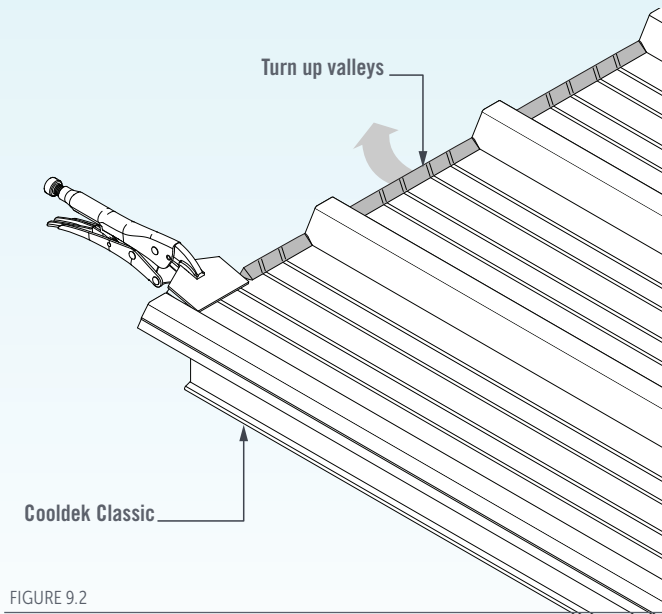


FIGURE 9.2

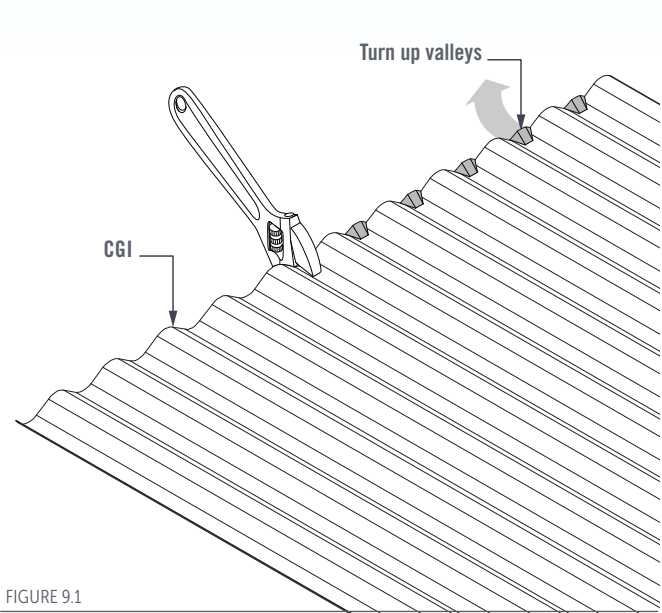


FIGURE 9.1

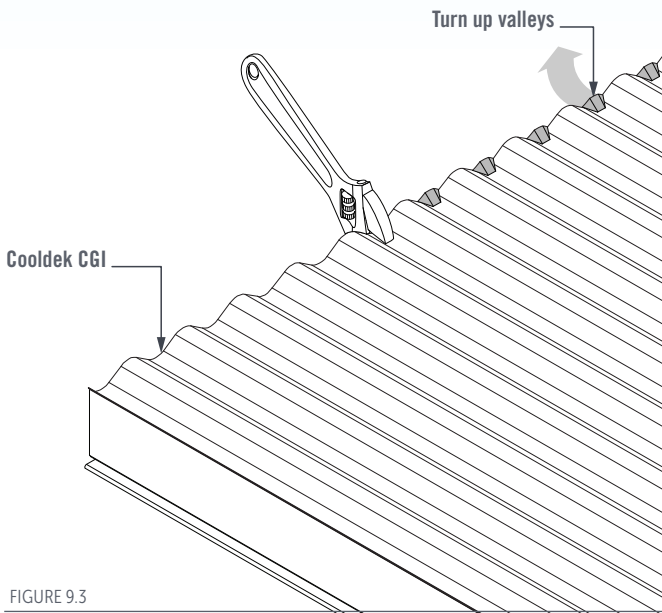


FIGURE 9.3

OUTBACK DECK INSTALLATION

Start laying the Outback Deck from one side of the gable unit, lifting the first sheet into place and sliding it firmly up against the Ridge Extrusion. Ensure the sheet is square against the Ridge Extrusion and the Beam Cap.

NOTE:

The Top Flashing clamps down hard on the Outback Deck and may flare up slightly.

Fix the Outback Deck to the Ridge Extrusion from the underside using $\varnothing 4.8\text{mm}$ (6-4) rivets into the pans (Figures 9.4 & 9.5). Use the groove in the Ridge Extrusion as a guide.

Position the Back Channel Top Flashing on the Ridge Extrusion and fix using Outback Self-Drilling Screws at maximum 500mm centres (Figure 9.5).

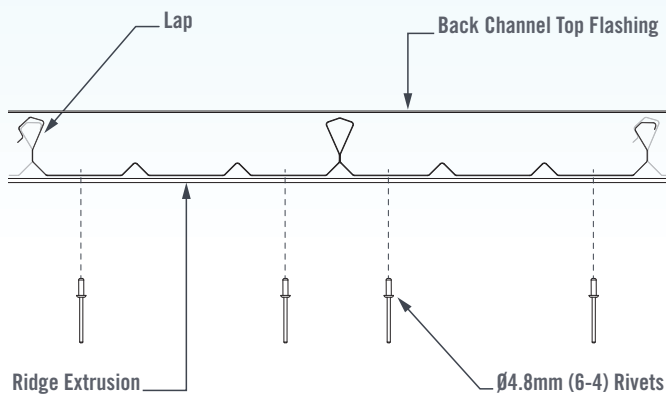


FIGURE 9.4

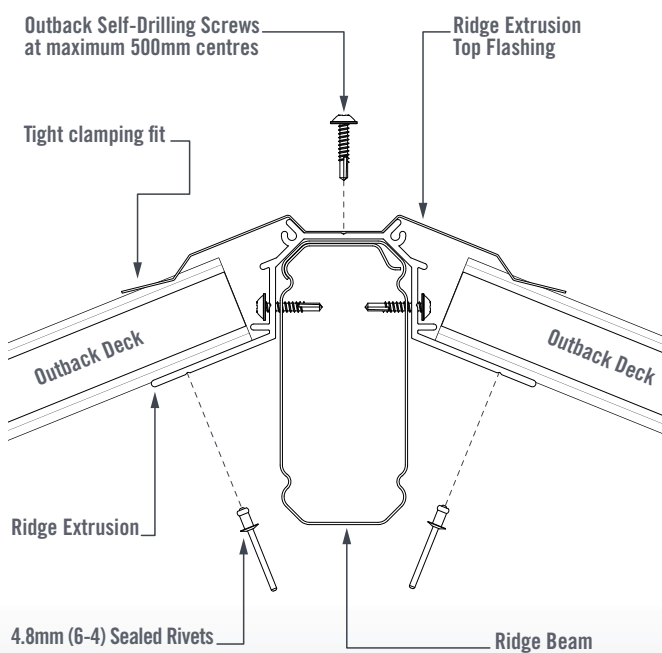


FIGURE 9.5

SMALL BEAM CAP FIXING (OUTBACK DECK)

The Small Beam Cap should be fixed to the Side Beam using Outback Self-Drilling Screws in the angled face of the extrusion, and also at both ends (Figure 9.7).

Fix the Outback Deck to the Small Beam Cap using 12g x 35mm hex head self-drilling screws with neoprene washers through the pans (Figure 11.0) into both the Beam Cap and the Side Beam (Figures 9.6 & 9.7). Screws must penetrate the Outback Beam.

The Outback Deck will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.7).

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

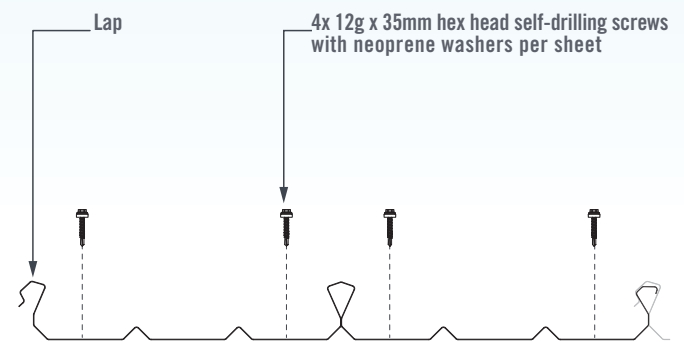


FIGURE 9.6

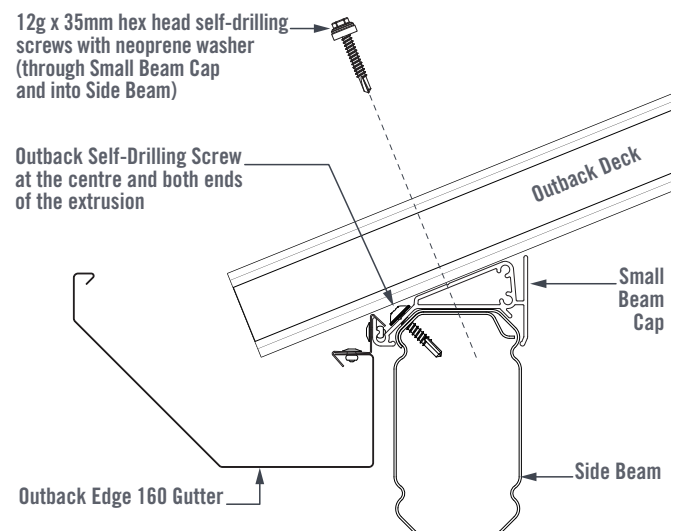


FIGURE 9.7

LARGE BEAM CAP FIXING

(OUTBACK DECK)

Fix the Outback Deck to the Large Beam Cap using 12g x 20mm hex head self-drilling screws with neoprene washers through the pans (Figures 9.8 & 9.9).

The Outback Deck will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.9).

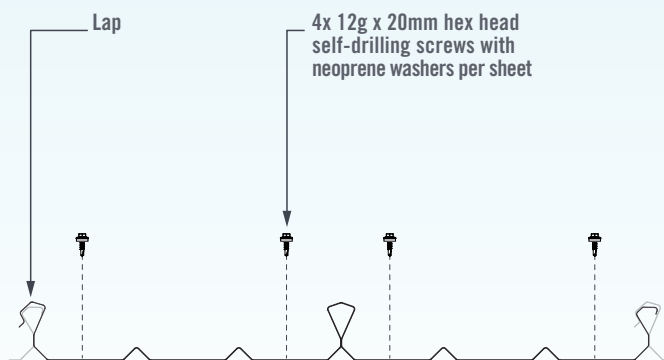


FIGURE 9.8

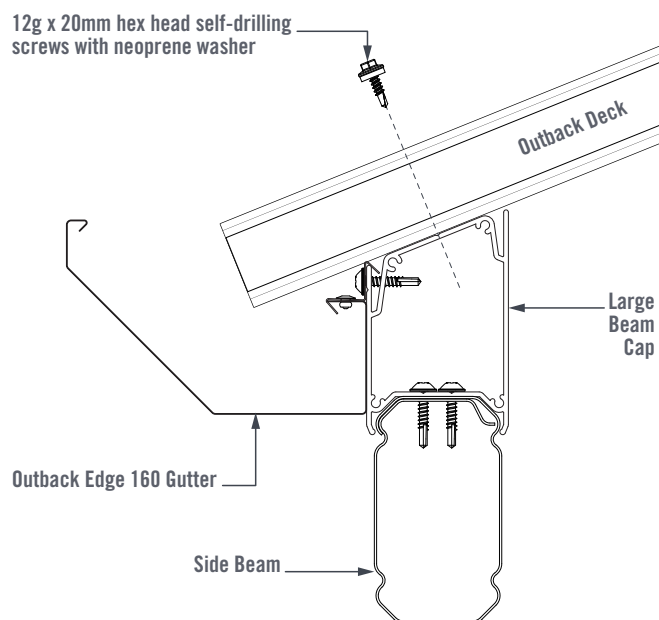


FIGURE 9.9

CGI INSTALLATION

Start laying the CGI sheets from one side of the gable unit, lifting the first sheet into place and sliding it firmly up against the Ridge Extrusion. Ensure the sheet is square against the Ridge Extrusion and the Beam Cap.

Fix the CGI sheets to the Ridge Extrusion from the underside using 4.8mm rivets into the pans (Figures 9.10 & 9.11).

Fix the Back Channel Top Flashing to the Ridge Extrusion and Ridge Beam using Outback Self-Drilling Screws at maximum 500mm centres (Figures 9.10 & 9.11).

Fix the Back Channel Top Flashing to the CGI sheets using 10g x 16mm hex head self-drilling screws through every third crest (Figures 9.10 & 9.11).

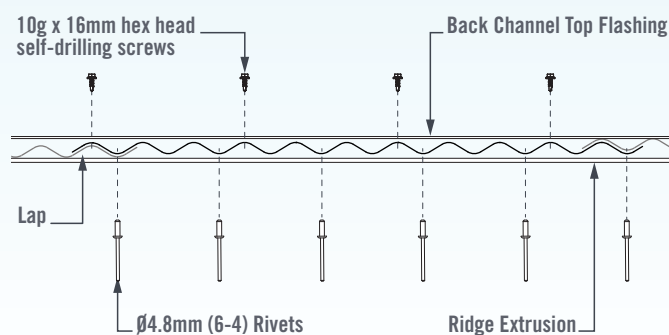


FIGURE 9.10

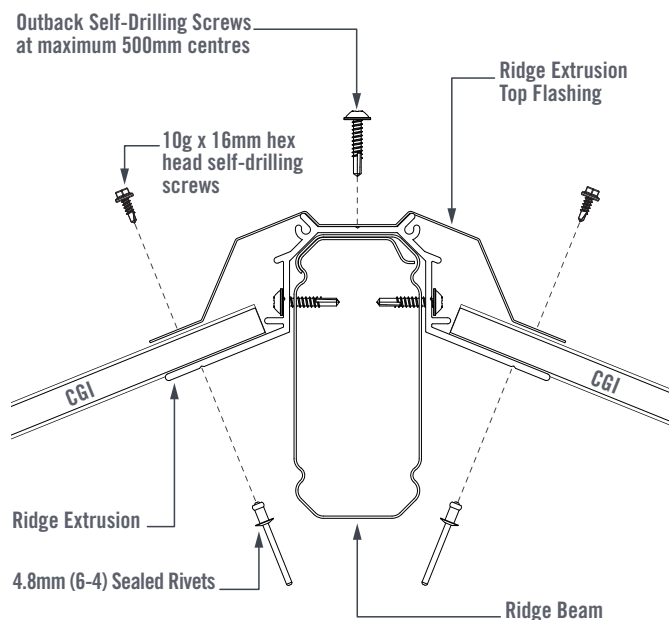


FIGURE 9.11

SMALL BEAM CAP FIXING

(CGI)

The Small Beam Cap should be fixed to the Side Beam using Outback Self-Drilling Screws in the angled face of the extrusion, and also at both ends (Figure 9.13).

Fix the CGI sheet to the Small Beam Cap using M6x50mm hex head self-drilling screws with neoprene washers through every second crest (Figure 9.12) into both the Beam Cap and the Side Beam (Figure 9.13). Screws must penetrate the Outback Beam.

The CGI roof sheet will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.13).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings **MUST** penetrate through the Small Beam Capping and fix to the Outback Side Beam.

5x M6 x 50mm hex head self-drilling screws with neoprene washers per sheet

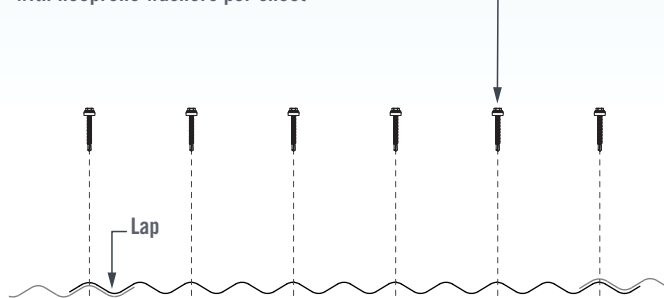


FIGURE 9.12

M6 x 50mm hex head self-drilling screws with neoprene washer (through Small Beam Cap and into Side Beam)

Outback Self-Drilling Screw at the centre and both ends of the extrusion

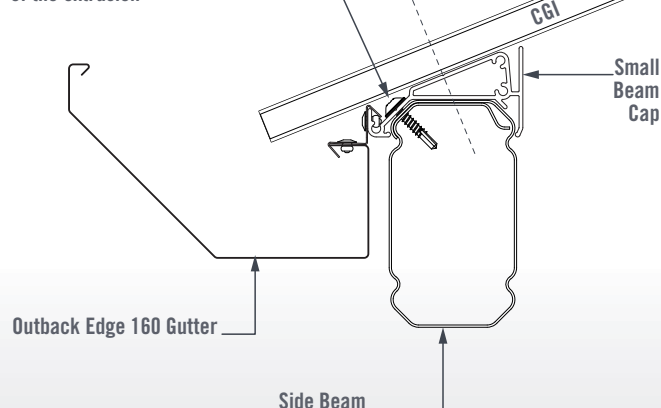


FIGURE 9.13

LARGE BEAM CAP FIXING

(CGI)

Fix the CGI sheets to the Large Beam Cap using 12g x 35mm hex head self-drilling screws with neoprene washers through every second crest (Figures 9.14 & 9.15) into the Beam Cap (Figure 9.11).

The CGI roof sheet will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.15).

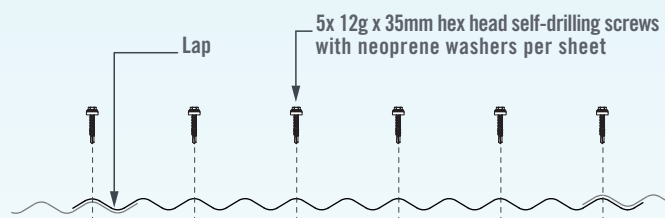


FIGURE 9.14

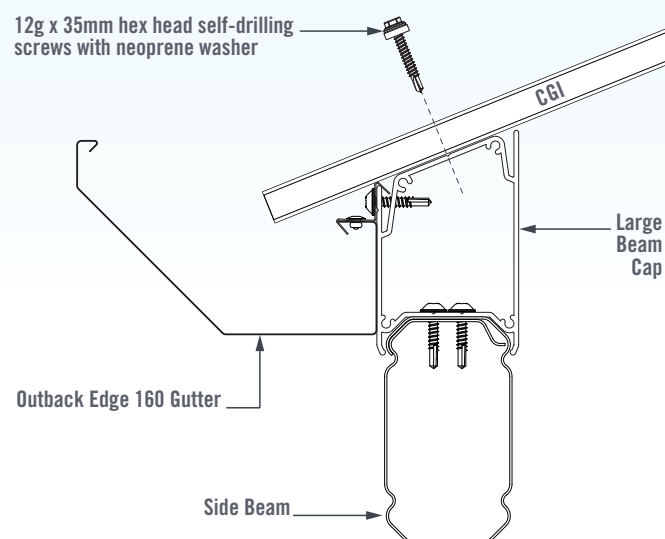


FIGURE 9.15

PURLIN SCREW LOCATIONS

(CGI)

At the first Purlin from each end of the sheet, fix the CGI sheet through the crests using 5x 12g x 35mm self-drilling screws with neoprene washers per sheet (Figure 9.16).

Internal Purlins require 3x 12g x 35mm self-drilling screws with neoprene washers per sheet (Figure 9.16).

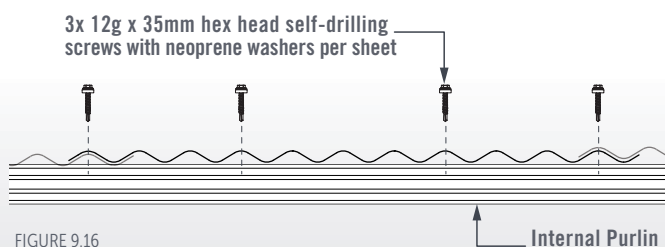
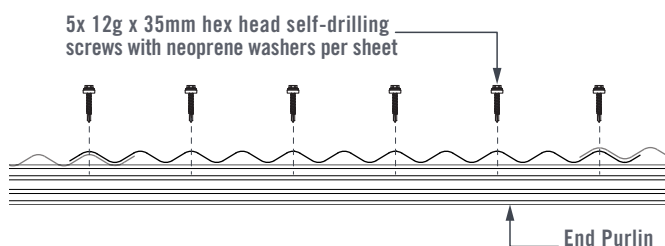


FIGURE 9.16

POLYCARBONATE ROOFING INSTALLATION

Start laying the Polycarbonate sheets from one side of the gable unit, lifting the first sheet into place and sliding it firmly against the Ridge Extrusion. Ensure the sheet is square against the Ridge Extrusion and the Beam Cap.

Fix the Back Channel Top Flashing to the Ridge Extrusion and Ridge Beam using Outback Self-Drilling Screws at maximum 500mm centres (Figure 9.17)

Polycarbonate roof sheets are not fixed directly to the Ridge Extrusion.

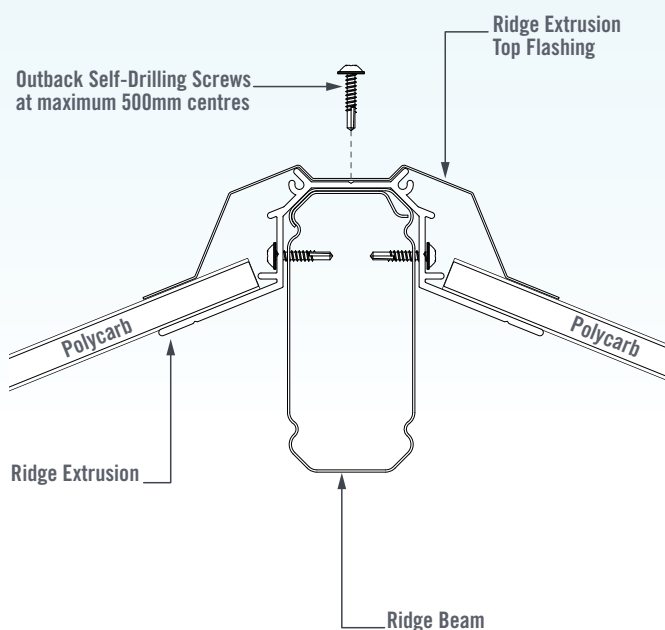


FIGURE 9.17

PURLIN SCREW LOCATIONS (POLYCARBONATE)

At each supporting Purlin, fix the Polycarbonate roof sheet through the crests using 5x M6x50mm self-drilling polycarbonate roofing screws per sheet (Figure 9.18).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

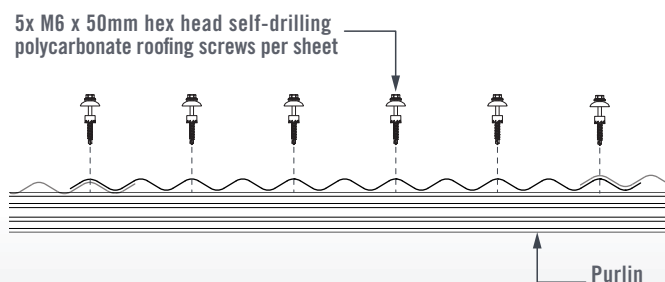


FIGURE 9.18

SMALL BEAM CAP FIXING (POLYCARBONATE)

The Small Beam Cap should be fixed to the Side Beam using Outback Self-Drilling Screws in the centre of the extrusion, and also at both ends (Figure 9.20).

Fix the Polycarbonate roof sheet to the Small Beam Cap using M6x50mm hex head self-drilling polycarbonate roofing screws through every second crest (Figure 9.19) into both the Beam Cap and the Side Beam (Figure 9.20). Screws must penetrate the Outback Beam.

The Polycarbonate roof sheet will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.20).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

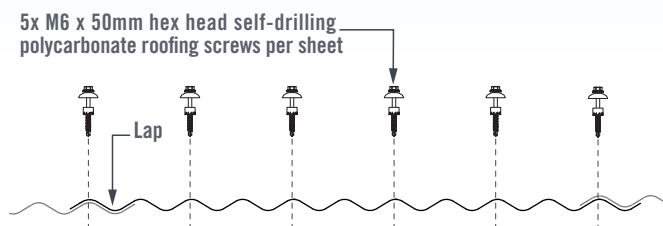


FIGURE 9.19

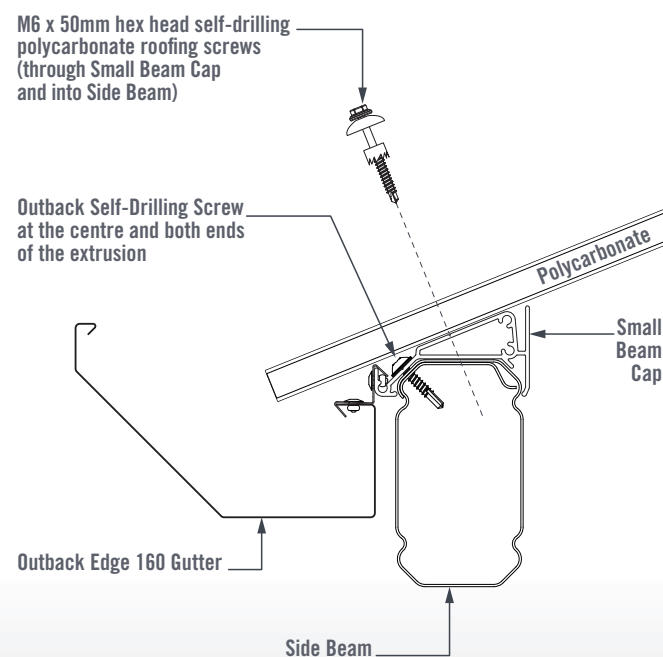


FIGURE 9.20

LARGE BEAM CAP FIXING (POLYCARBONATE)

Fix the CGI sheets to the Large Beam Cap using M6x50mm hex head self-drilling polycarbonate roofing screws through every second crest (Figures 9.21 & 9.22) into both the Beam Cap and the Side Beam (Figure 9.22).

The Polycarbonate roof sheet will need to overhang the Beam Cap to allow water to flow directly into the gutter (Figure 9.22).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

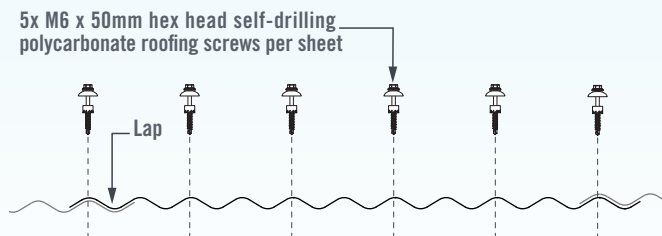


FIGURE 9.21

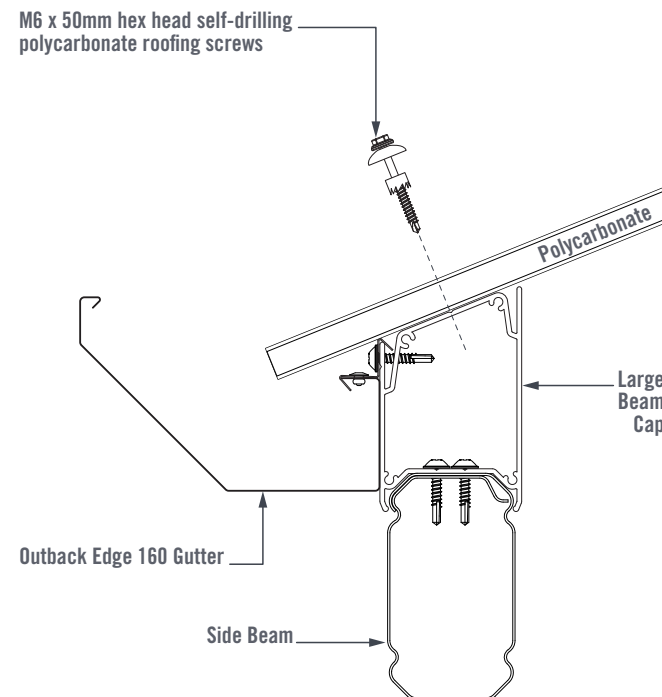


FIGURE 9.22

COOLDEK CLASSIC INSTALLATION

Start laying sheets from one side of the gable unit, lifting the first sheet into place and sliding it firmly against the Ridge Extrusion. Ensure the sheet is square against the Ridge Extrusion and the Beam Cap.

Fix the Cooldek Classic into position at the Ridge Extrusion using 5x Ø4.8mm (6-4) rivets per sheet, from the underside of the Ridge Extrusion at maximum 200mm centres (Figures 9.23, 9.25 & 9.26).

Lay the next sheet of Cooldek over the previous sheets side lap and ensure that the slip joint of the two sheets has engaged (Figures 9.23 & 9.24).

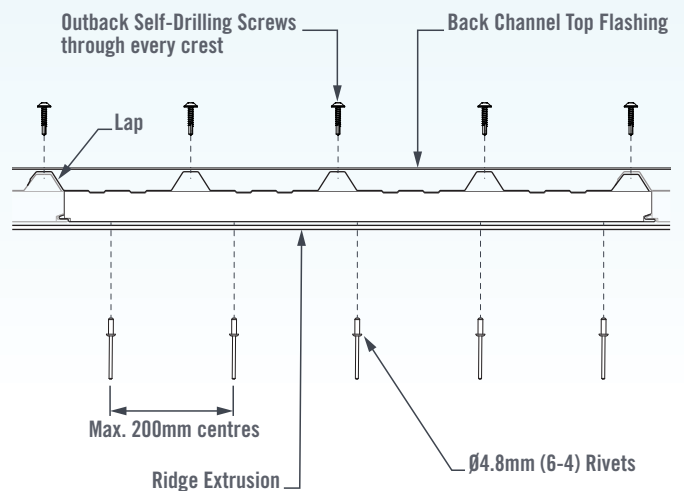


FIGURE 9.23

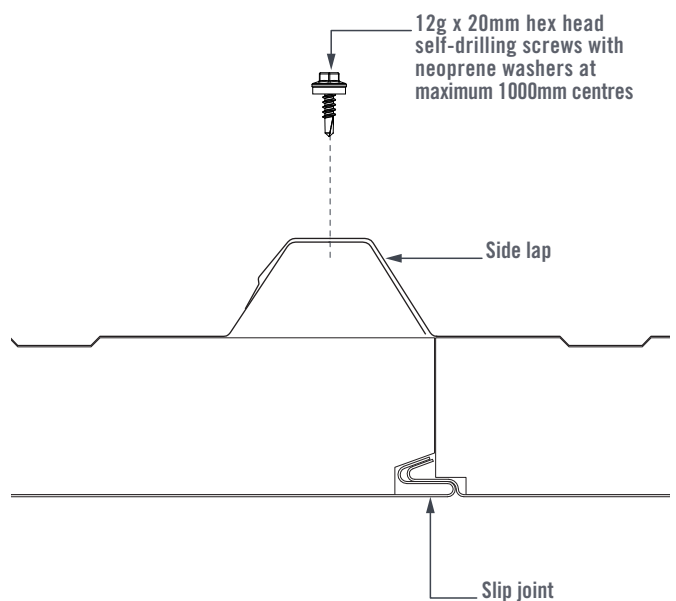


FIGURE 9.24

Fix the Back Channel Top Flashing to the Ridge Extrusion and Ridge Beam using Outback Self Drilling Screws at maximum 500mm centres (Figure 9.25).

Fix the Back Channel Top Flashing to the top sheet of the Cooldek Classic using Outback Self Drilling Screws through each crest (Figure 9.25 & 9.26).

Secure side laps along the Cooldek sheet with 12g x 20mm hex head self-drilling screws with neoprene washers at maximum 1000mm centres (Figure 9.24).

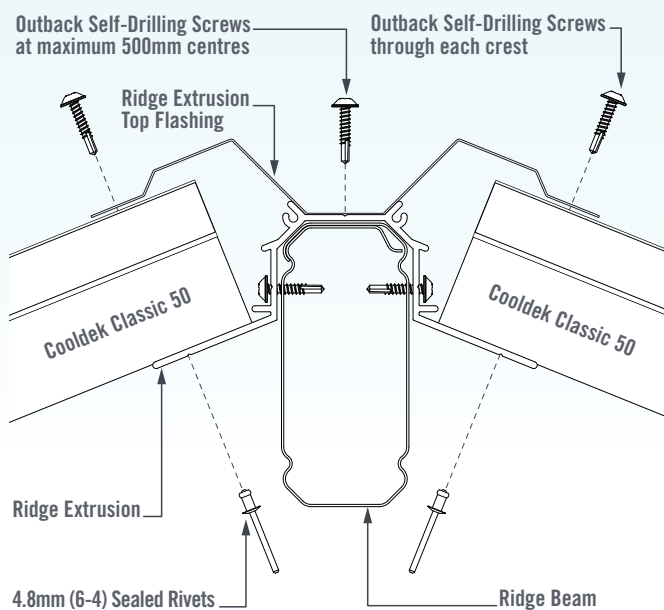


FIGURE 9.25 - COOLDEK CLASSIC 50

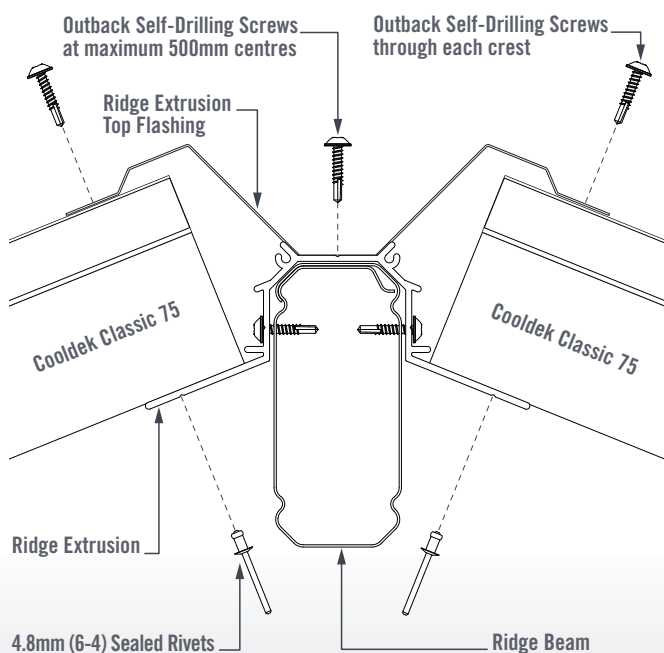


FIGURE 9.26 - COOLDEK CLASSIC 75

SMALL BEAM CAP FIXING (COOLDEK CLASSIC 50MM)

Measure and mark screw location to ensure the screws fix through the centre of the Outback Beam. Fix the 50mm Cooldek Classic to both the Small Beam Cap and Side Beam through each crest (Figure 9.27) using 14g x 150mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.27 & 9.28).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.28)

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

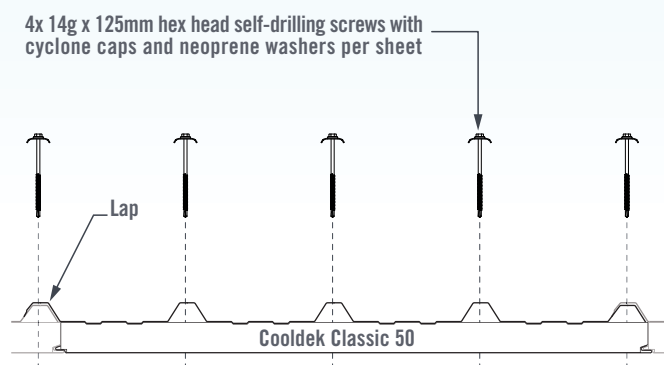


FIGURE 9.27

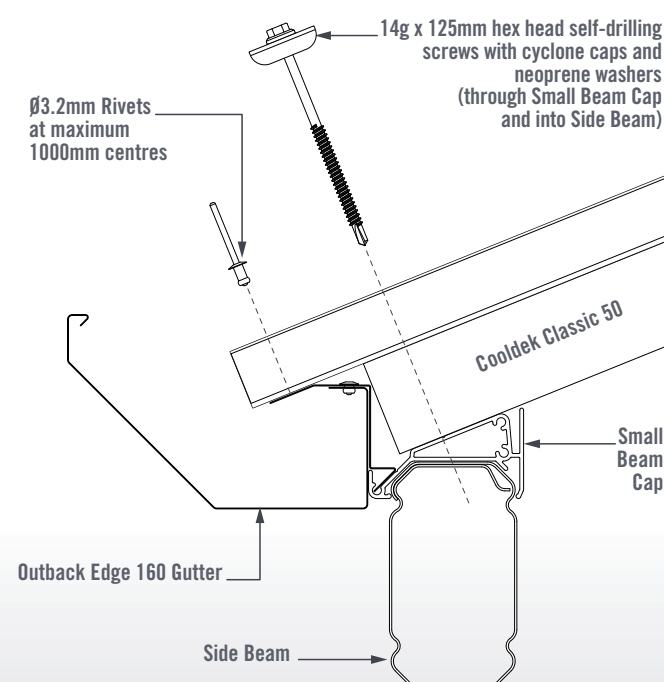


FIGURE 9.28

SMALL BEAM CAP FIXING

(COOLDEK CLASSIC 75MM)

Measure and mark screw location to ensure the screws fix through the centre of the Outback Beam. Fix the 75mm Cooldek Classic to both the Small Beam Cap and Side Beam through each crest (Figure 9.29) using 14g x 150mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.29 & 9.30).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.30)

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

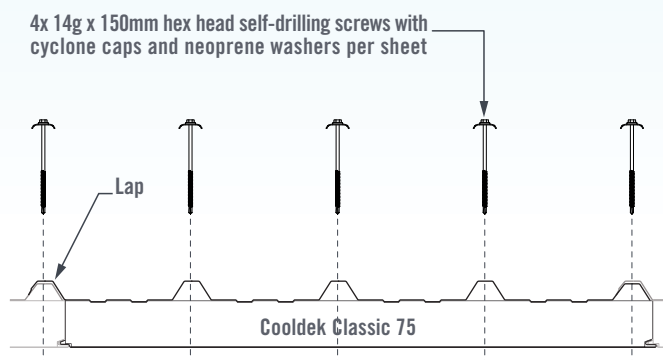


FIGURE 9.29

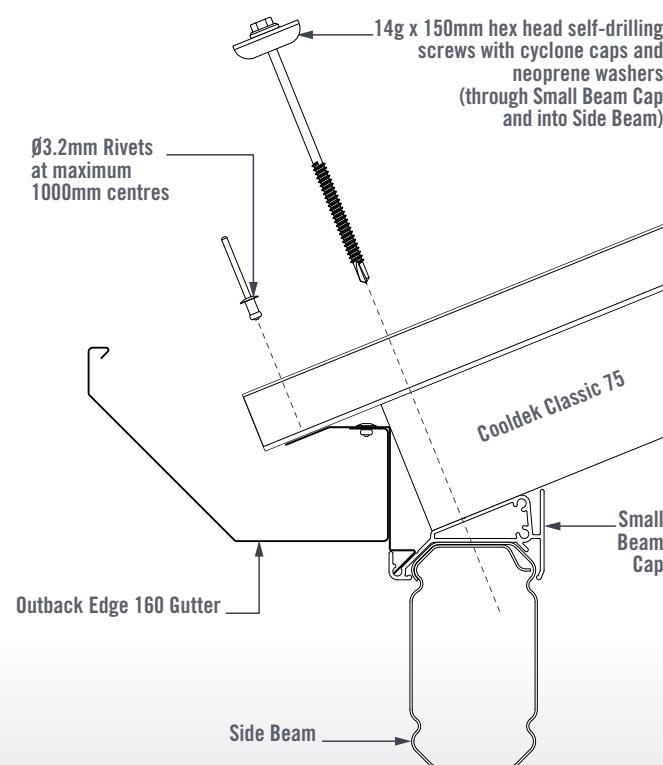


FIGURE 9.30

LARGE BEAM CAP FIXING

(COOLDEK CLASSIC 50MM)

Measure and mark screw location to ensure the screws fix through the centre of the Beam Cap. Fix the 50mm Cooldek Classic to the Large Beam Cap through each crest (Figure 9.27) using 14g x 125mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.31 & 9.32).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.32).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

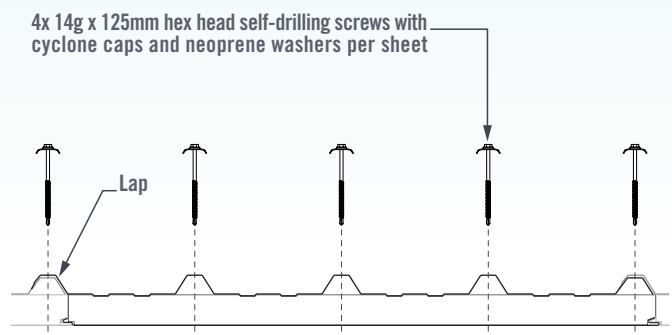


FIGURE 9.31

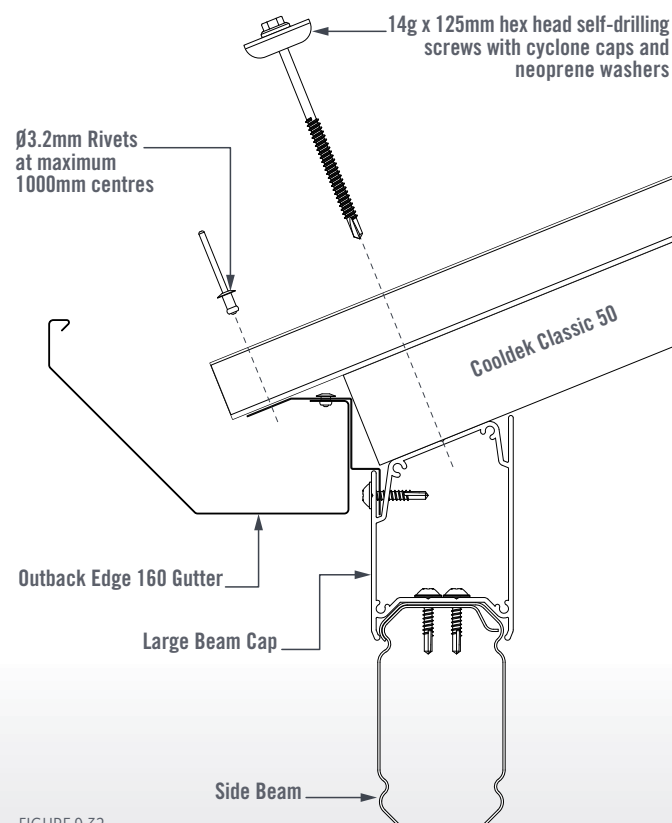


FIGURE 9.32

LARGE BEAM CAP FIXING

(COOLDEK CLASSIC 75MM)

Measure and mark screw location to ensure the screws fix through the centre of the Beam Cap. Fix the 75mm Cooldek Classic to the Large Beam Cap through each crest (Figure 9.29) using 14g x 150mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.33 & 9.34).

Fix through the pans in the top sheet into the Cutback Flashing using $\varnothing 3.2\text{mm}$ rivets at 1000mm centres (Figure 9.34).

Tip: Pre-drill holes using $\varnothing 3.2\text{mm}$ drill bit to ensure easy screw installation.

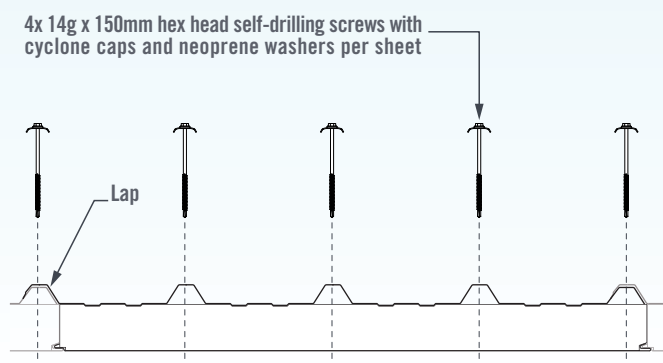


FIGURE 9.33

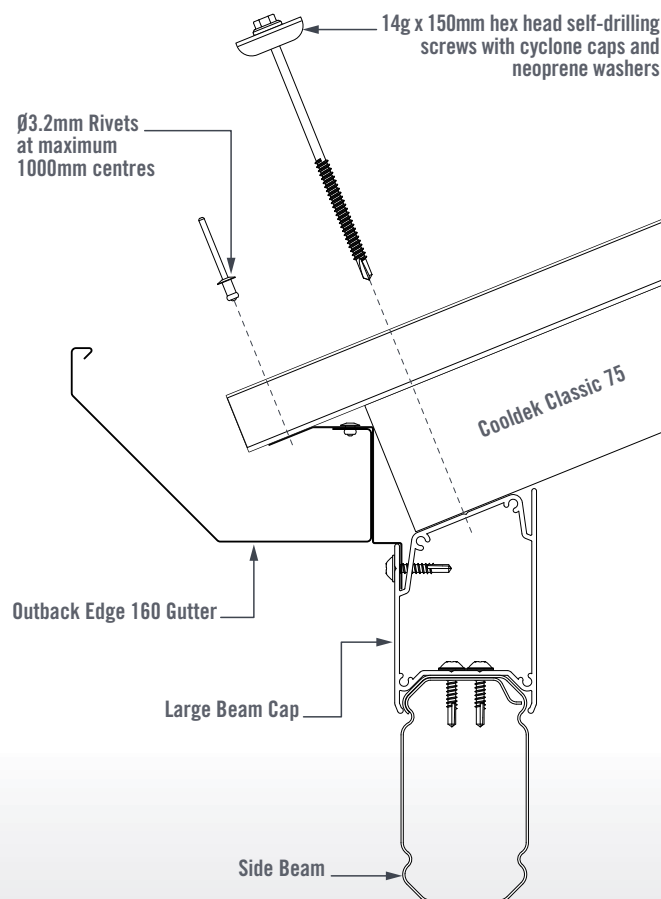


FIGURE 9.34

COOLDEK CGI INSTALLATION

Start laying sheets from one side of the gable unit, lifting the first sheet into place and sliding it firmly against the Ridge Extrusion. Ensure the sheet is square against the Ridge Extrusion and the Beam Cap.

Fix the Cooldek CGI into position at the ridge using 5x $\varnothing 4.8\text{mm}$ (6-4) rivets per sheet from the underside of the Ridge Extrusion at maximum 200mm centres (Figures 9.35, 9.37 & 9.38).

Fix the Back Channel Top Flashing to the Ridge Extrusion and Ridge Beam using Outback Self Drilling Screws at maximum 500mm centres (Figures 9.33 & 9.34).

Fix the Back Channel Top Flashing to the top sheet of the Cooldek CGI using Outback Self Drilling Screws through every third crest (Figure 9.37 & 9.38).

Lay the next sheet of Cooldek over the previous sheets side lap and ensure that the slip joint of the two sheets has engaged (Figures 9.35 & 9.36).

Secure side laps along the Cooldek sheet with 12g x 20mm hex head self-drilling screws with neoprene washers at maximum 1000mm centres (Figure 9.36).

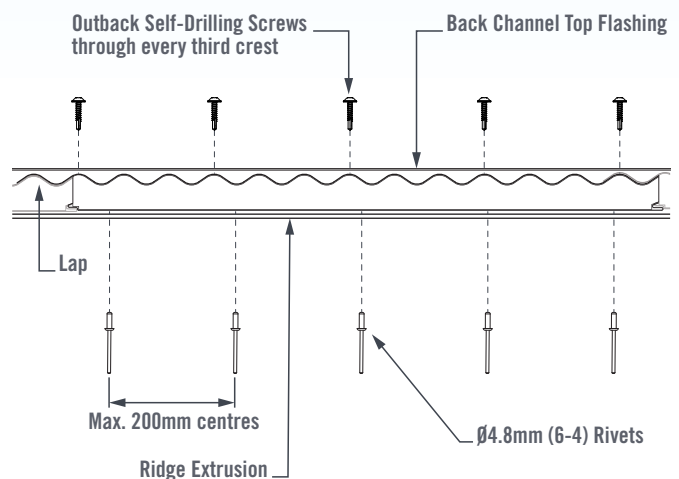


FIGURE 9.35

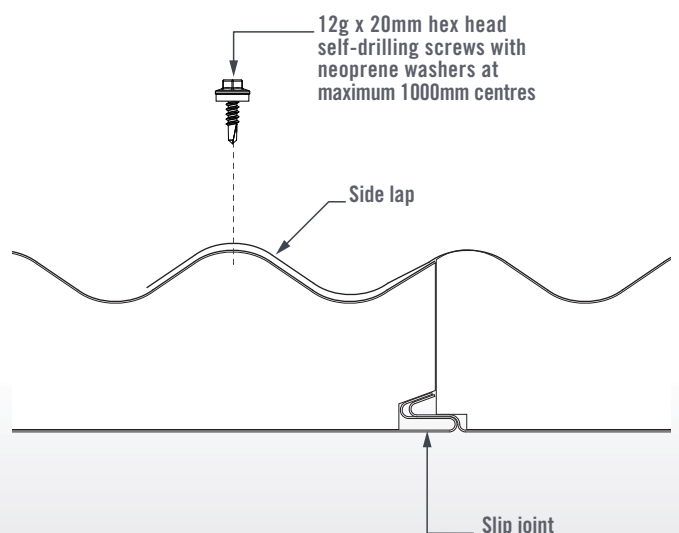


FIGURE 9.36

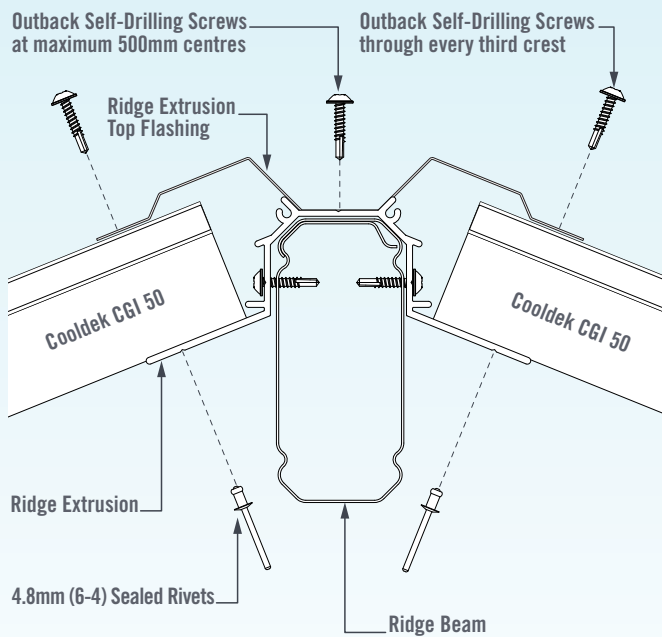


FIGURE 9.37 - COOLDEK CGI 50

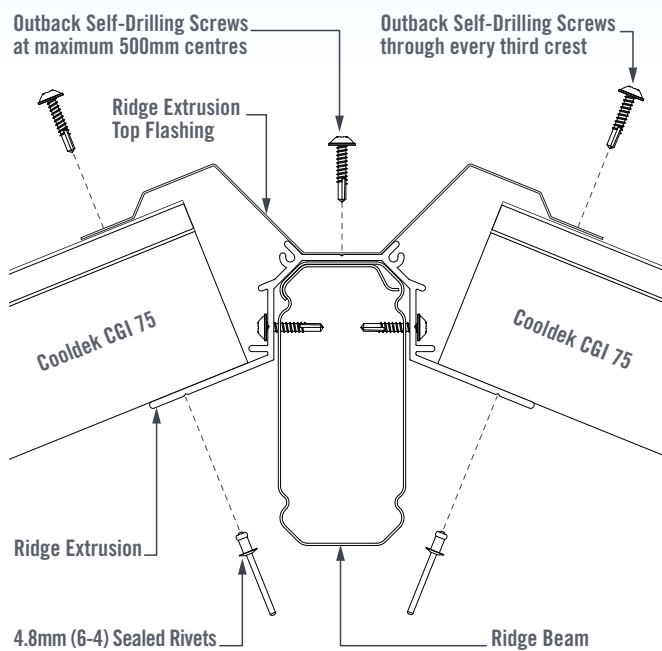


FIGURE 9.38 - COOLDEK CGI 75

SMALL BEAM CAP FIXING (COOLDEK CGI 50MM)

Measure and mark screw location to ensure the screws fix through the centre of the Outback Beam. Fix the 50mm Cooldek CGI to both the Small Beam Cap and Side Beam through every second crest (Figure 9.39) using 14g x 115mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.40).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.40).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

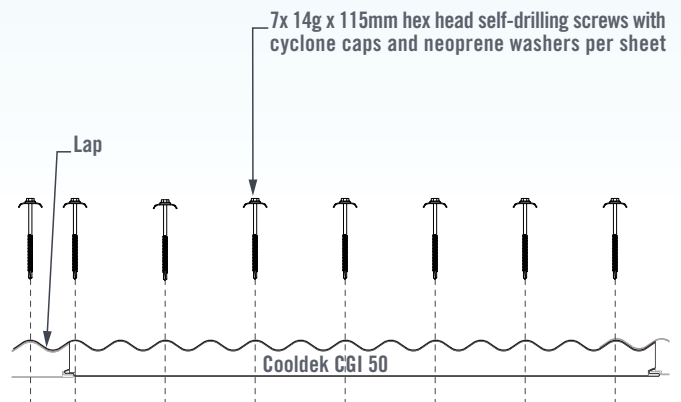


FIGURE 9.39

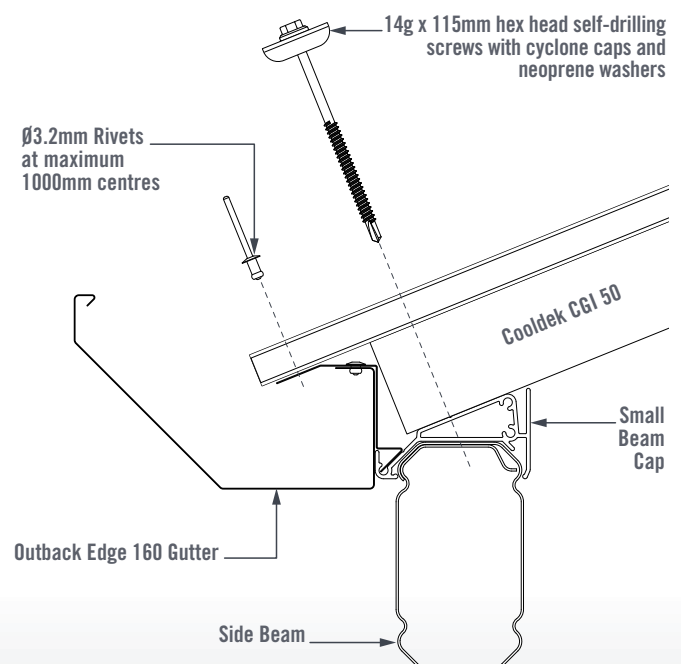


FIGURE 9.40

SMALL BEAM CAP FIXING (COOLDEK CGI 75MM)

Measure and mark screw location to ensure the screws fix through the centre of the Outback Beam. Fix the 75mm Cooldek CGI to both the Small Beam Cap and Side Beam through every second crest (Figure 9.41) using 14g x 125mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.42).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.42).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

NOTE:

As an engineering requirement, when using Small Beam Cap ALL roof deck fixings MUST penetrate through the Small Beam Capping and fix to the Outback Side Beam.

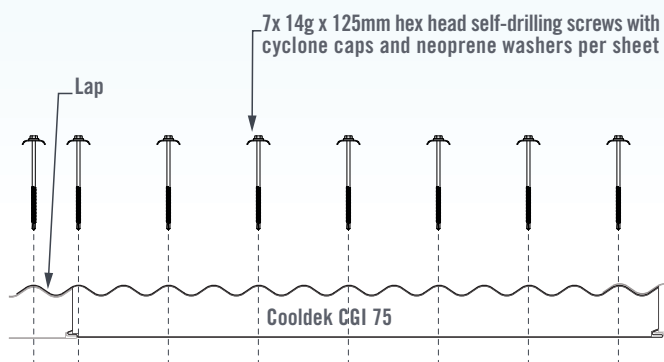


FIGURE 9.41

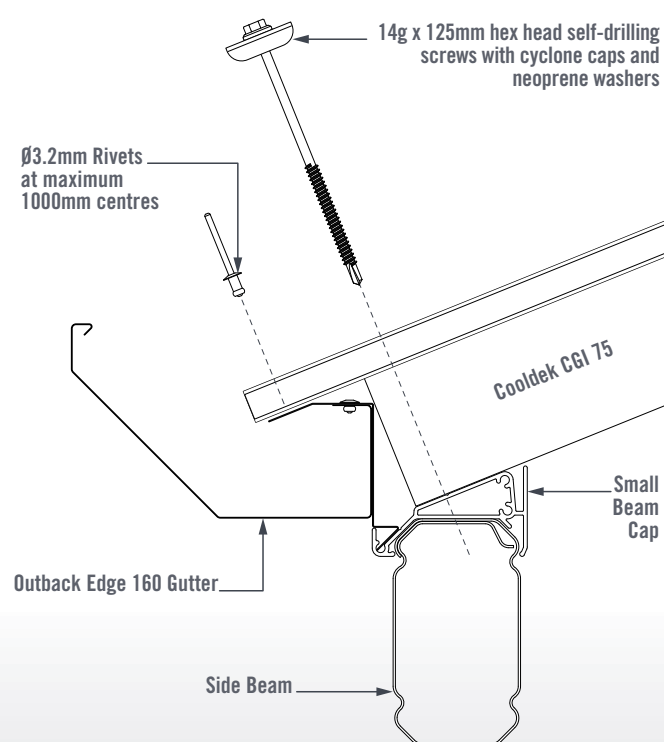


FIGURE 9.42

LARGE BEAM CAP FIXING (COOLDEK CGI 50MM)

Measure and mark screw location to ensure the screws fix through the centre of the Beam Cap. 50mm Cooldek CGI to the Large Beam Cap through every second crest (Figure 9.43) using 14g x 115mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.44).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.44).

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

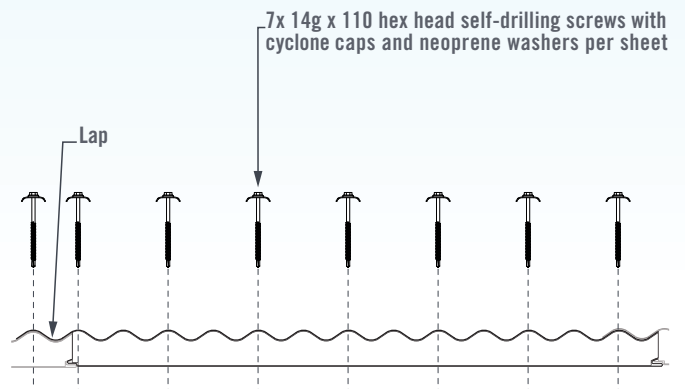


FIGURE 9.43

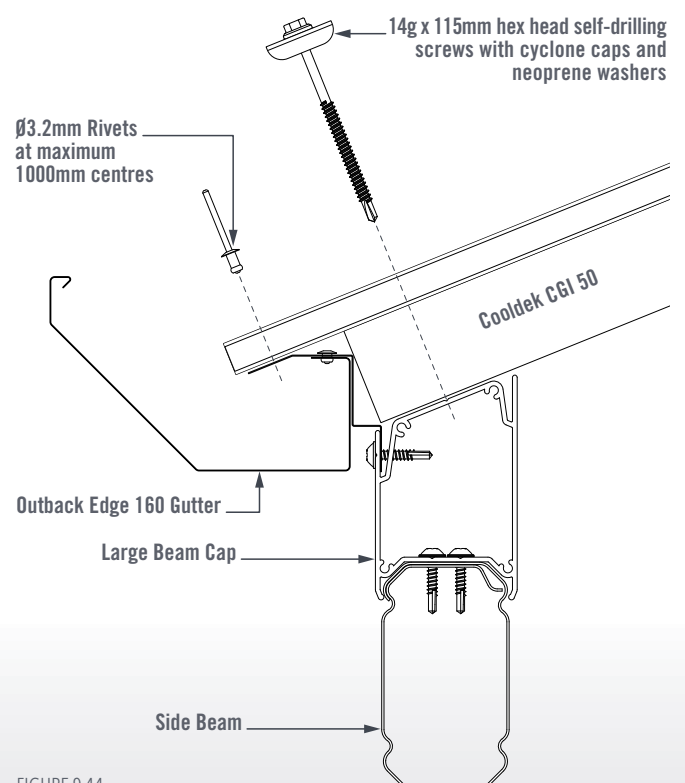


FIGURE 9.44

LARGE BEAM CAP FIXING (COOLDEK CGI 75MM)

Measure and mark screw location to ensure the screws fix through the centre of the Beam Cap. 75mm Cooldek CGI to the Large Beam Cap through every second crest (Figure 9.45) using 14g x 125mm self-drilling screws with cyclone caps and neoprene washers (Figure 9.46).

Fix through the pans in the top sheet into the Cutback Flashing using Ø3.2mm rivets at 1000mm centres (Figure 9.46)

Tip: Pre-drill holes using Ø3.2mm drill bit to ensure easy screw installation.

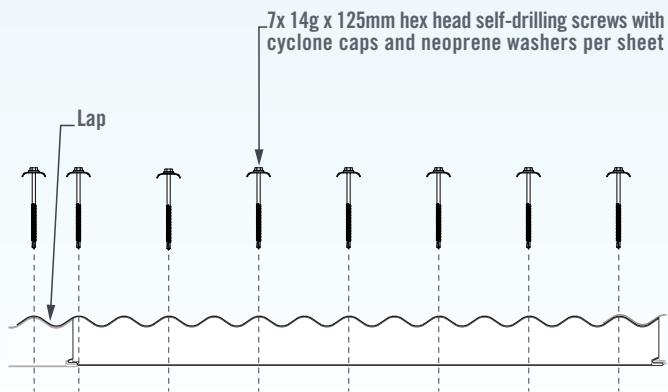


FIGURE 9.45

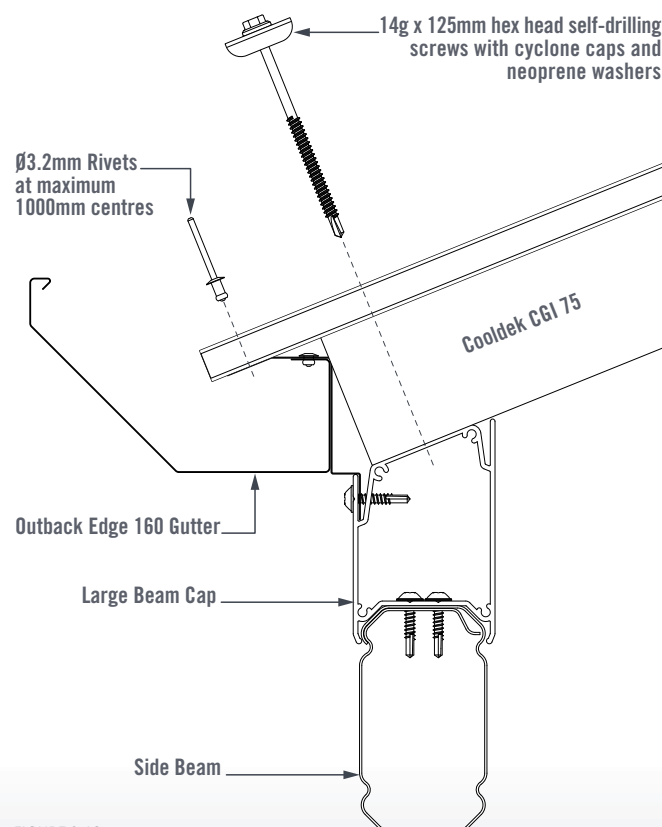


FIGURE 9.46

GUTTER STRAPS

Hook the Gutter Straps under the front lip of the Gutter at a maximum spacing of 1000mm.

Fix the Gutter Straps to the crests of the roof sheets using 12g x 20mm hex head self-drilling screws with neoprene washers (Figures 9.47 to 9.52).

Ensure the front face of the Gutter is vertical. Gutter Straps should be installed in a position that ensures the Gutter is straight along its length.

Note: Gutter Straps may need to be bent to achieve a clean fit against the roof sheet.

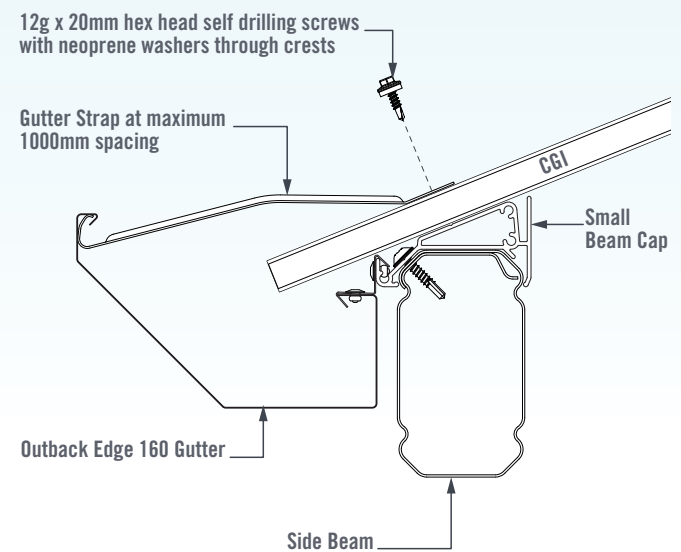


FIGURE 9.47

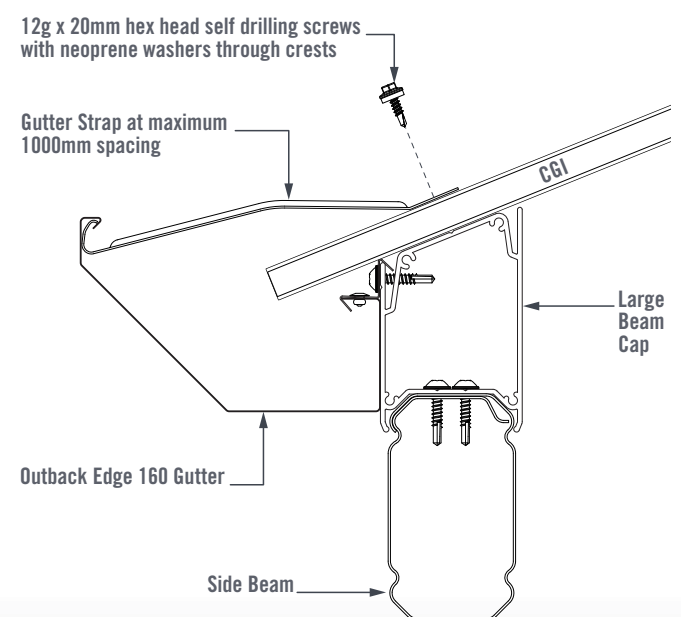


FIGURE 9.48

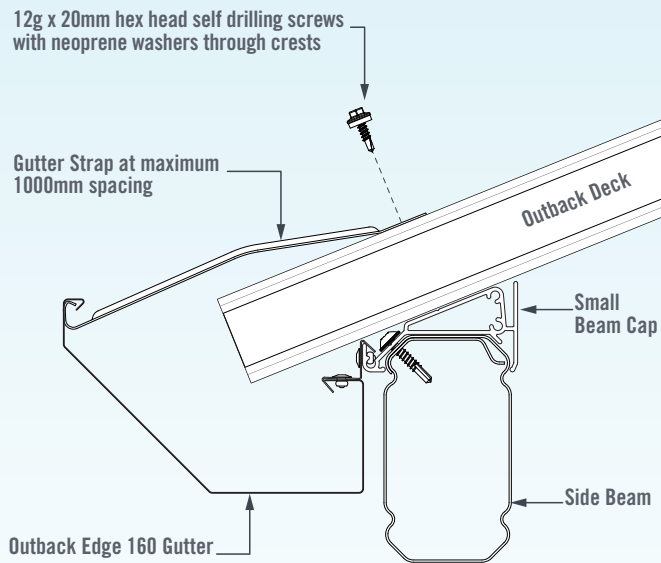


FIGURE 9.49

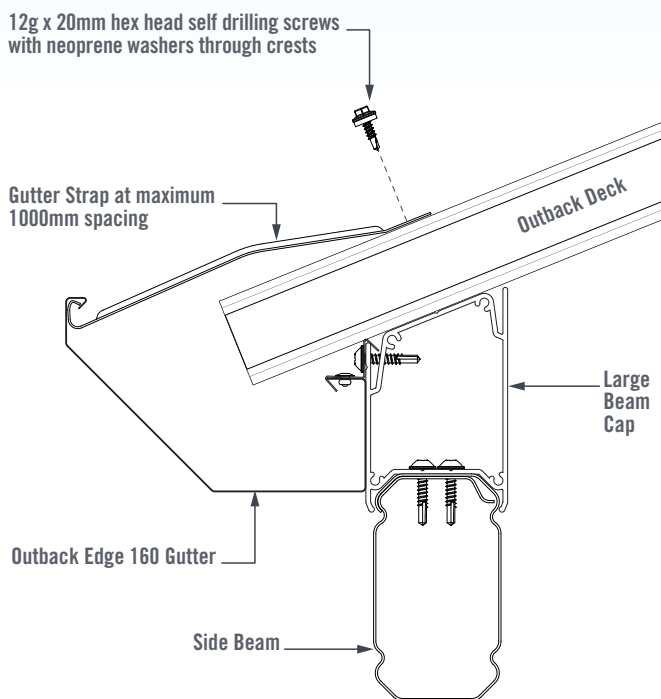


FIGURE 9.50

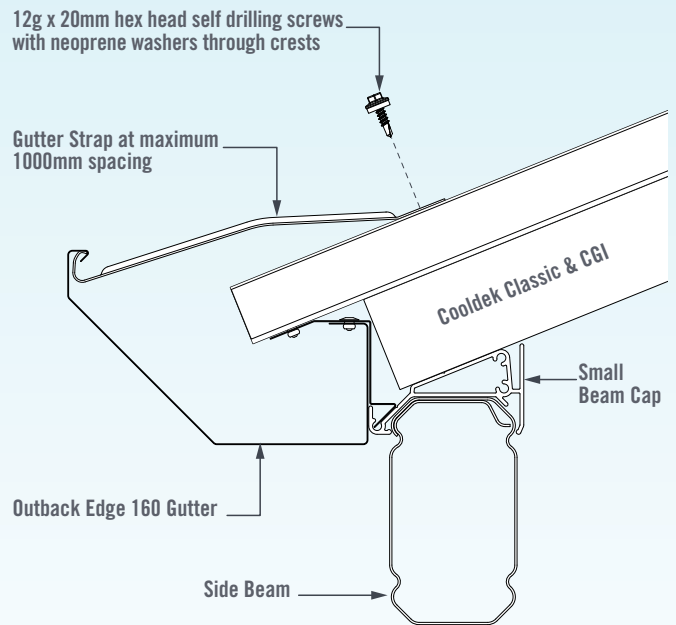


FIGURE 9.51

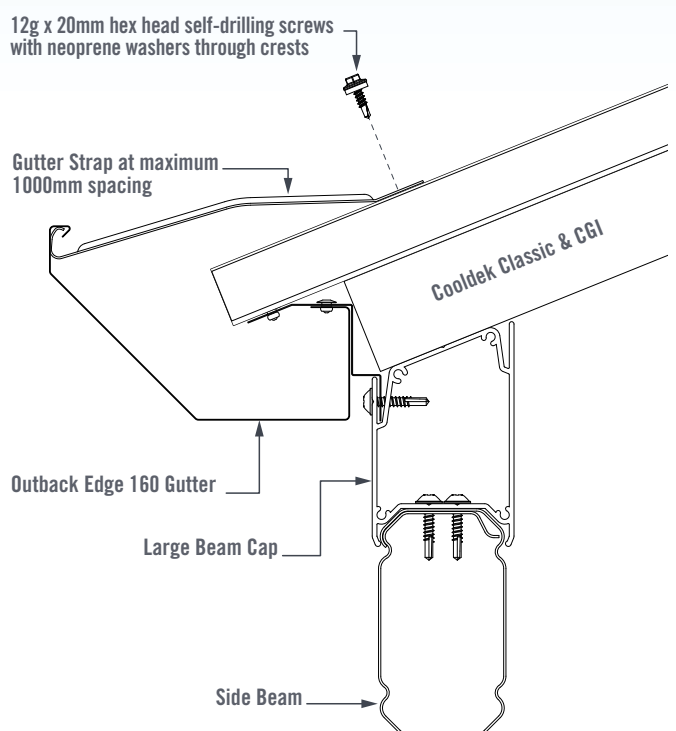


FIGURE 9.52

SKIP FORWARD FOR:

Split Width Gable - Roofing Installation - Page 14.17
 Equal Return Gable - Roofing Preparation - Page 15.22
 Unequal Return Gable - Roofing Installation - Page 16.15
 Hip End Gable - Roofing Installation - Page 18.7

10. FINAL FIXING

FINAL FIXING

FIXING INTO CONCRETE FOOTING

Thoroughly check the Columns with a spirit level. When plumb, fill the post hole with approximately 150mm of concrete and use a shovel or pole to agitate the concrete to remove any air pockets.

Repeat this process until the hole is full, continually checking the Columns as you go.

The concrete must have a slight slope that runs away from the Column to ensure any water does not pool around the base of the Column (Figure 10.0).

Once the concrete is set remove any temporary bracing or props.

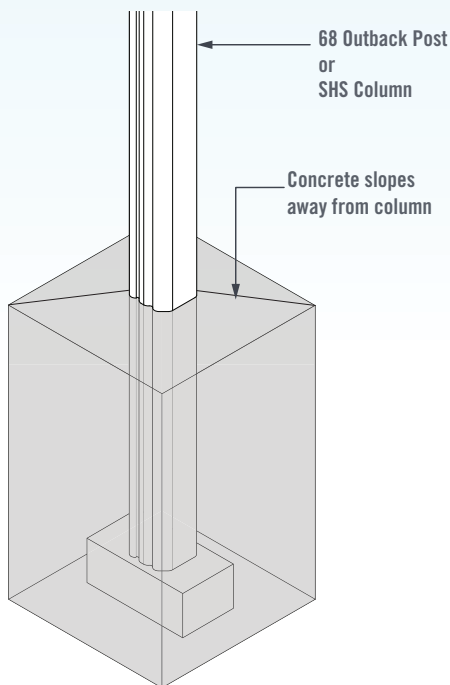


FIGURE 10.0

IMPORTANT NOTE:

Do not allow soil to remain in permanent contact with the columns as corrosion will result in the base of the column. Refer to the 'Selection, Use and Maintenance of Stratco Steel Products' brochure for complete details of the maintenance requirements.

FIXING ONTO EXISTING CONCRETE (68 OUTBACK COLUMN)

If 68 Outback Columns are to be fixed to an existing concrete slab with a footing plate, each plate must be fixed to the concrete with two M12x75 masonry anchors or two M12x75 screwbolts (Figure 10.1).

Note: Anchors to be installed in accordance with manufacturer's specifications. The minimum distance from an anchor hole to the concrete edge is 75mm for M12 anchors.

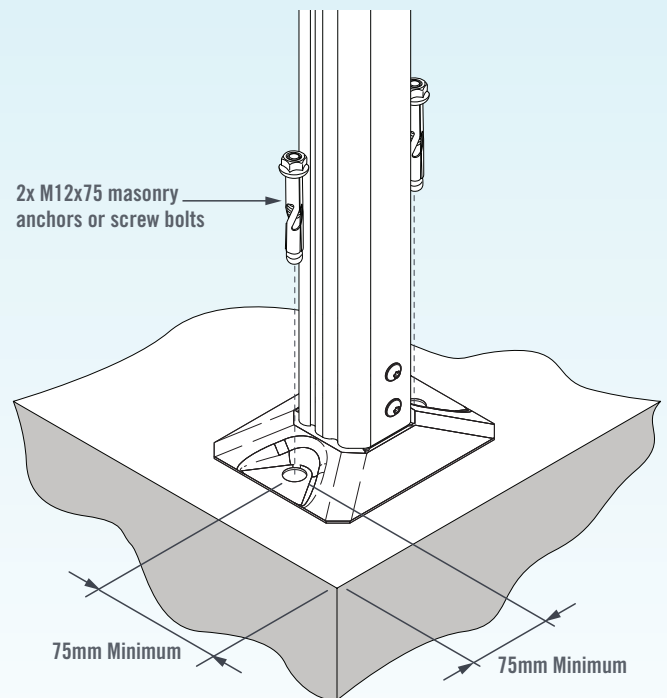


FIGURE 10.1

FIXING ONTO EXISTING CONCRETE (SHS COLUMN)

If using SHS columns, the footing plate is to be fixed to the concrete slab with four M12x75 masonry anchors or screw bolts (Figure 10.2).

Note: Anchors to be installed in accordance with manufacturer's specifications. The minimum distance from an anchor hole to the concrete edge is 75mm for M12 anchors unless otherwise specified by the manufacturers.

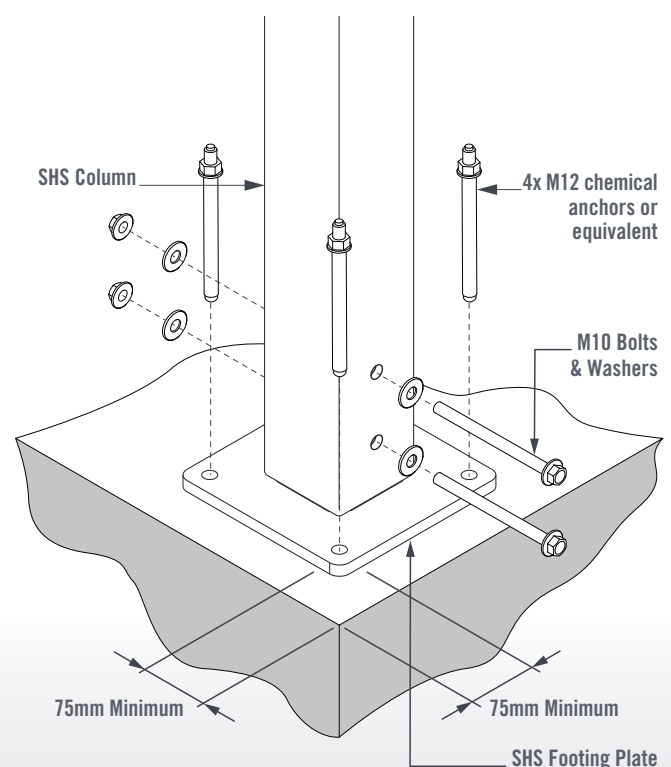


FIGURE 10.2

11. INFILL PANEL INSTALLATION

INFILL INSTALLATION

Infill panels can be specified and supplied as either the New Generation Infill Panel System, or as a Traditional (face-fix) Infill Panel set-up

Infill panels can be specified in different layouts; single panel with no struts, two panels with a centre strut, or four panels with a centre strut and two side struts (Figures 11.7 to 11.9 on page 11.4).

STRUT INSTALLATION

If Struts are required, measure and mark out the Strut locations ensuring that any Apex Stirrups and Side Stirrups are vertically aligned to corresponding Base Stirrups (Figure 11.0). Refer to detail sheets provided for Strut locations and dimensions.

Fix the Strut Stirrups to the Header Beam and Rafters using 2x Outback Self-Drilling screws per Stirrup (Figure 11.0).

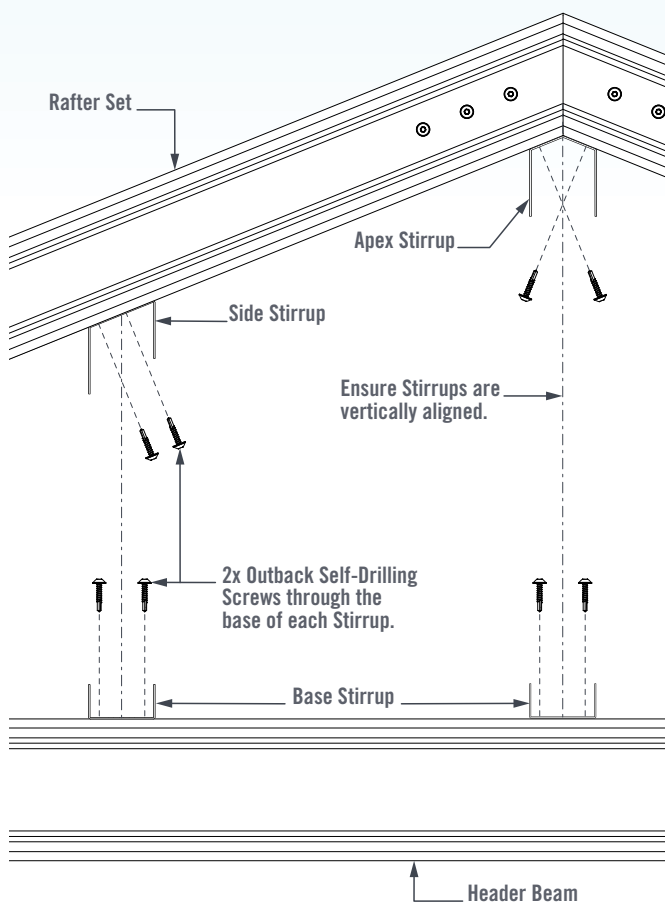


FIGURE 11.0

Measure between the Base Stirrup and the corresponding Apex/Side Stirrup to determine the length of the Strut Post/s.

Measure, mark, and cut the Outback 68 Post to length. Place the Outback 68 Strut Post between the legs of the Stirrups with the flat sides of the Strut Post against the Stirrup.

Fix the Strut Post to the Stirrups with 1x Outback Self-Drilling Screw through each leg of the Stirrups (Figure 11.1).

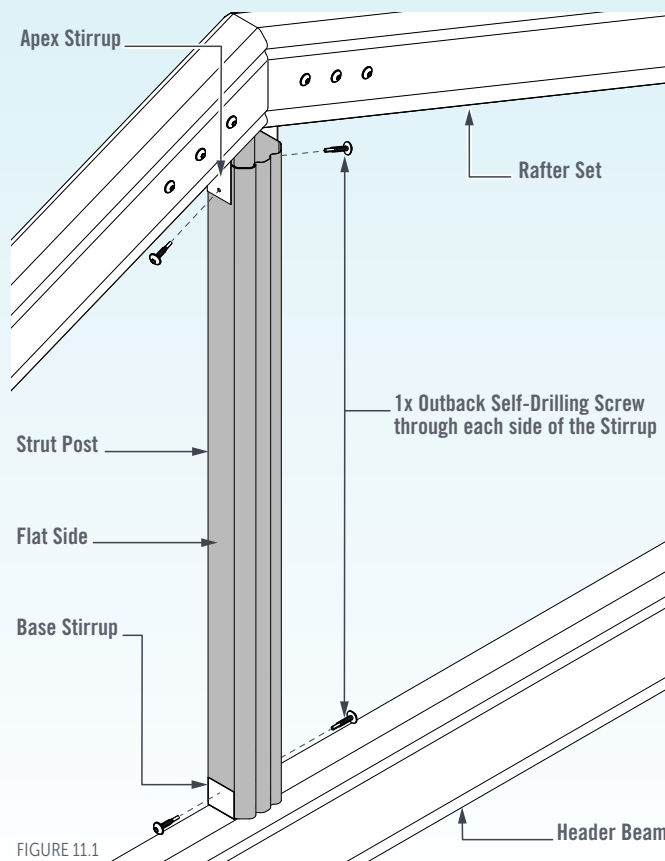


FIGURE 11.1

NEW GENERATION INFILL FIXING FLASHING INSTALLATION

Lay-out all Infill Flashings prior to installation. All Infill Flashings have been supplied at the correct length.

Clip the Infill Fixing Flashing onto the Header Beam with the 45° face facing towards the inside of the unit (Figure 11.2).

Fix the Infill Fixing Flashing to the Header Beam using Outback Self-Drilling Screws at maximum 400mm intervals (Figure 11.2 & 11.3).

Refer to Detail Sheets for Flashing lengths.

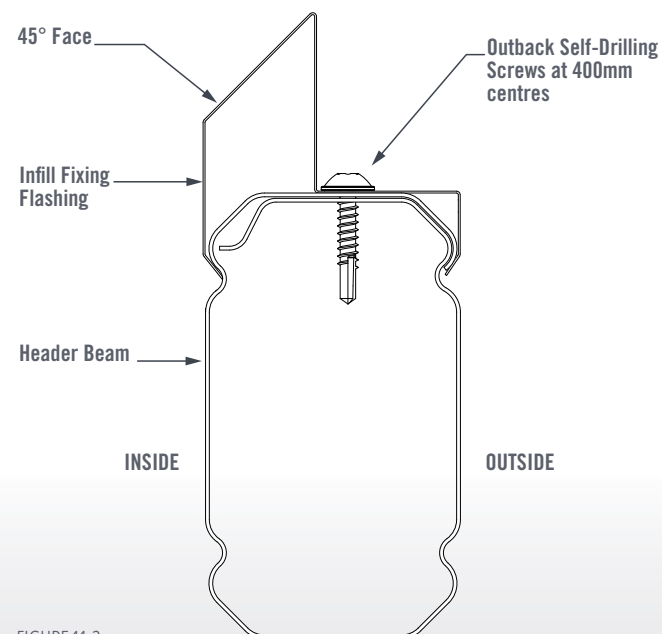


FIGURE 11.2

Clip the Infill Fixing Flashing onto the Rafters with the 45° face facing towards the inside of the unit (Figure 11.2).

Fix the Infill Fixing Flashing to the Rafters using Outback Self-Drilling Screws at maximum 400mm intervals (Figure 11.2 & 11.3).

Refer to Detail Sheets for Flashing lengths.

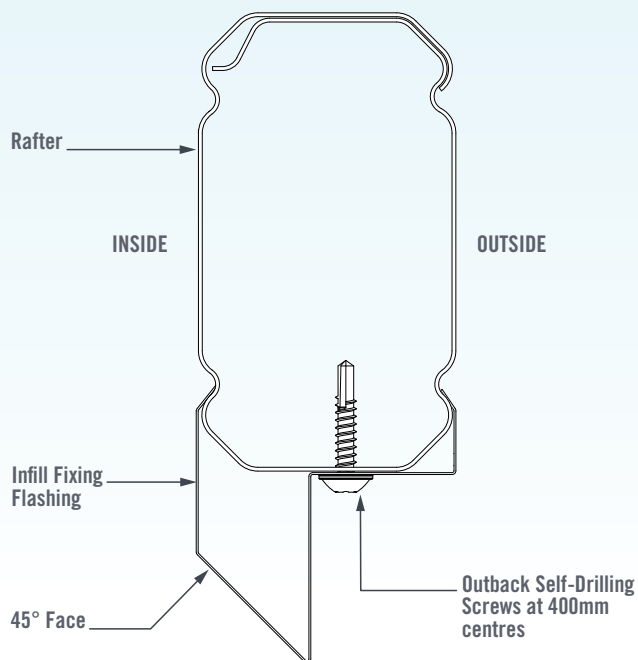


FIGURE 11.3

If required, clip the Infill Fixing Flashings to either side of the Strut Post with the 45° face facing the inside of the unit (Figure 11.4).

Fix the Infill Fixing Flashing to the Strut Post using Outback Self-Drilling Screws at maximum 400mm intervals (Figure 11.4).

Refer to Detail Sheets for Flashing lengths.

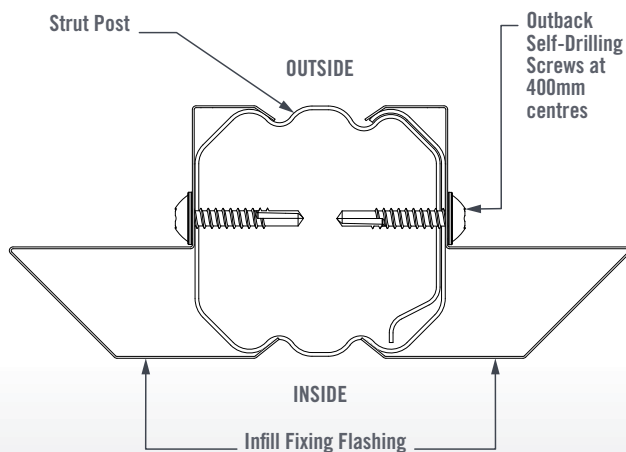


FIGURE 11.4

NEW GENERATION INFILL CORNER GUSSET INSTALLATION

Position the Infill Corner Gusset hard into the corner on the Infill Fixing Flashings (Figure 11.5).

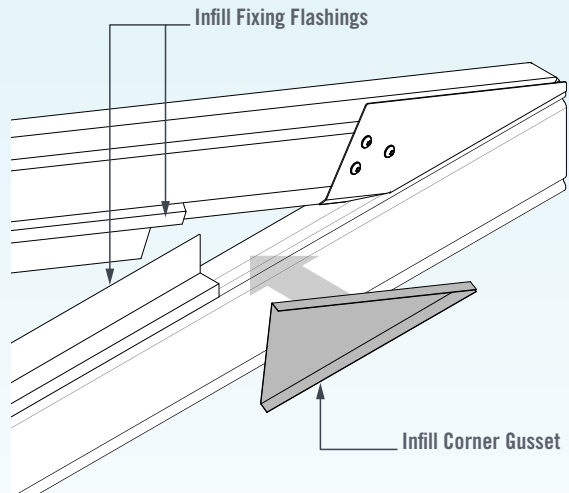


FIGURE 11.5

Ensure the Infill Corner Gusset is pushed firmly into the Corner of the Rafter and Header Beam and fix to the Infill Fixing Flashing using a Ø3.2mm Rivet. Silicone the Infill Corner Gusset all the way around to prevent water ingress through the internal corners of the unit (Figure 11.6).

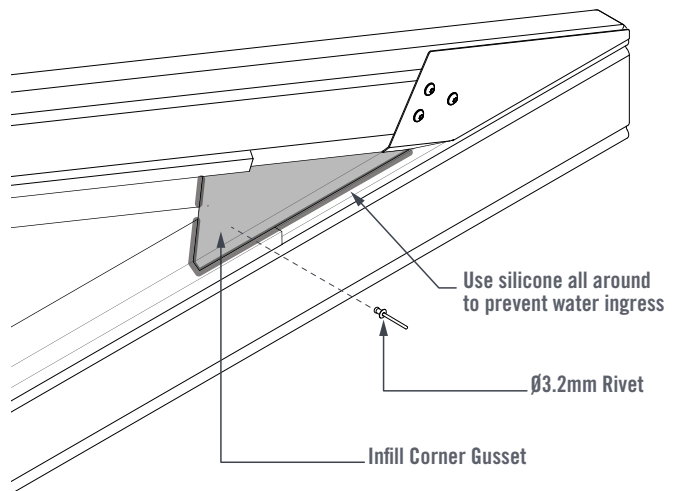


FIGURE 11.6

FIBRE CEMENT & MULTIWALL INFILL PANEL PREPARATION

Three configurations of Infill Panel are available.

Single Panel Infill (Figure 11.7).

Two Panel Infill with Centre Strut (Figure 11.8).

Four Panel Infill with Centre Strut and Side Struts (Figure 11.9).

Measure the internal opening inside of Infill Fixing Flashings for infill panel dimensions.

Cut the panel/s to size and paint the desired colour using exterior grade paint.

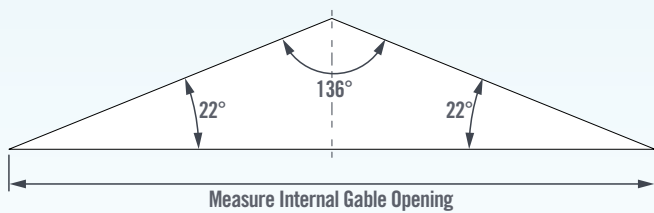


FIGURE 11.7

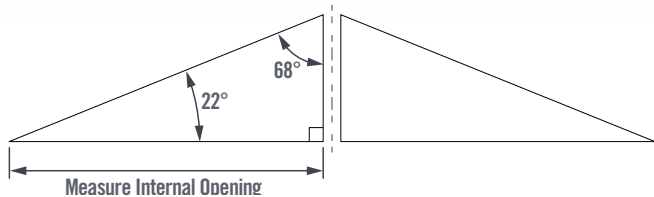


FIGURE 11.8

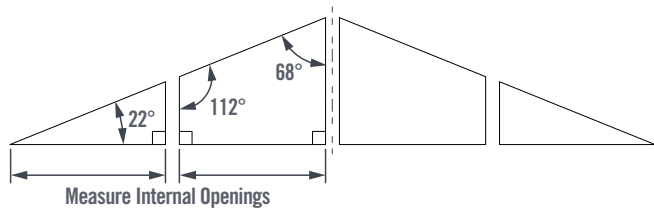


FIGURE 11.9

FIBRE CEMENT NEW GENERATION INFILL PANEL INSTALLATION

Position the Infill Panel so that it sits firmly against the vertical face of the Infill Fixing Flashing.

Secure the Infill Panel in-place along the Rafter to avoid the panel falling out. Use 12g x 20mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 30mm from the rafter fixing face of the Infill Fixing Flashings (Figure 11.10).

Do not over tighten the screws.

Fix the Infill Panel to the Header Beam Infill Fixing Flashing (and the Strut Post Infill Fixing Flashing if required), using the same screws at the same maximum spacing.

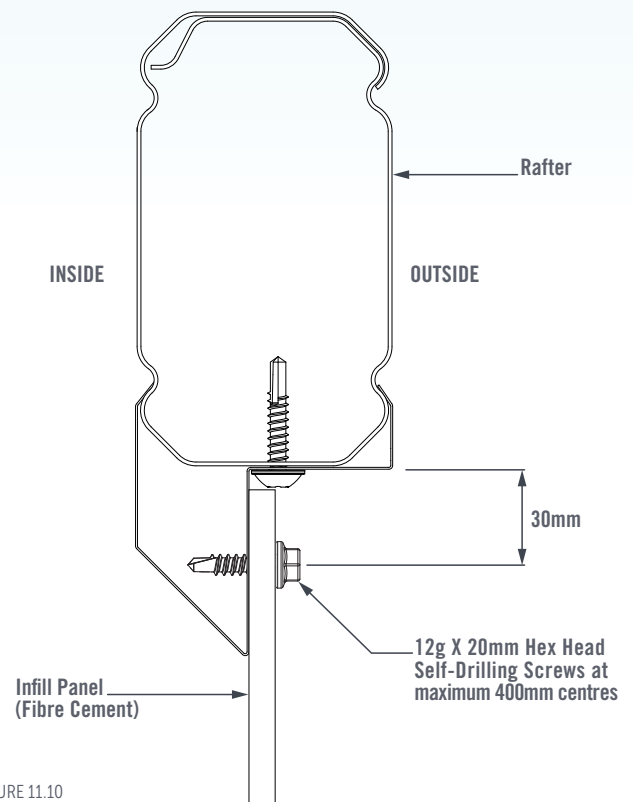


FIGURE 11.10

Fix the Infill Panel to the Header Beam Infill Fixing Flashing using 12g x 20mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 30mm from the horizontal face of the Infill Fixing Flashings (Figure 11.11).

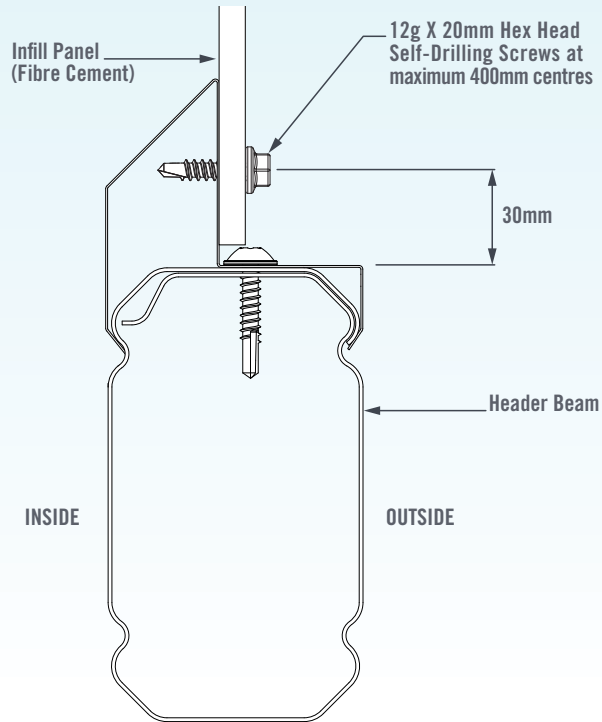


FIGURE 11.11

If Strut Posts are used, fix the Infill Panel to the Strut Post Infill Fixing Flashings using 12g x 20mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 30mm from the Strut Post fixing face of the Infill Fixing Flashings (Figure 11.12).

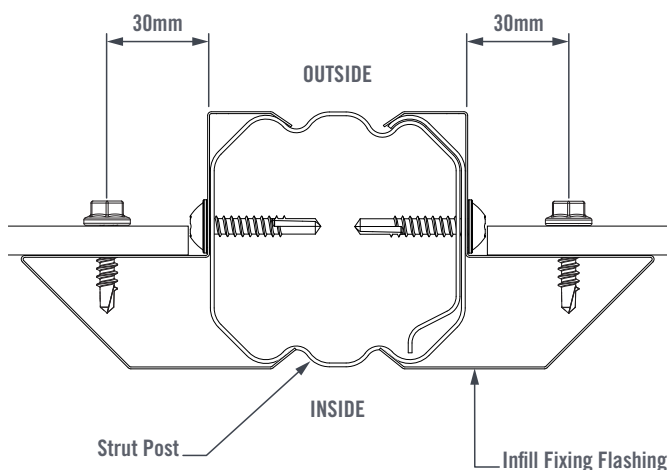


FIGURE 11.12

MULTIWALL NEW GENERATION INFILL PANEL INSTALLATION

Position the Infill Panel so that it sits firmly against the vertical face of the Infill Fixing Flashing.

Secure the Infill Panel in-place along the Rafter first to avoid the panel falling out. Use 12g x 35mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 25mm from the rafter fixing face of the Infill Fixing Flashings (Figure 11.16).

Do not over tighten the screws.

Fix the Infill Panel to the Header Beam Infill Fixing Flashing (and the Strut Post Infill Fixing Flashing if required).

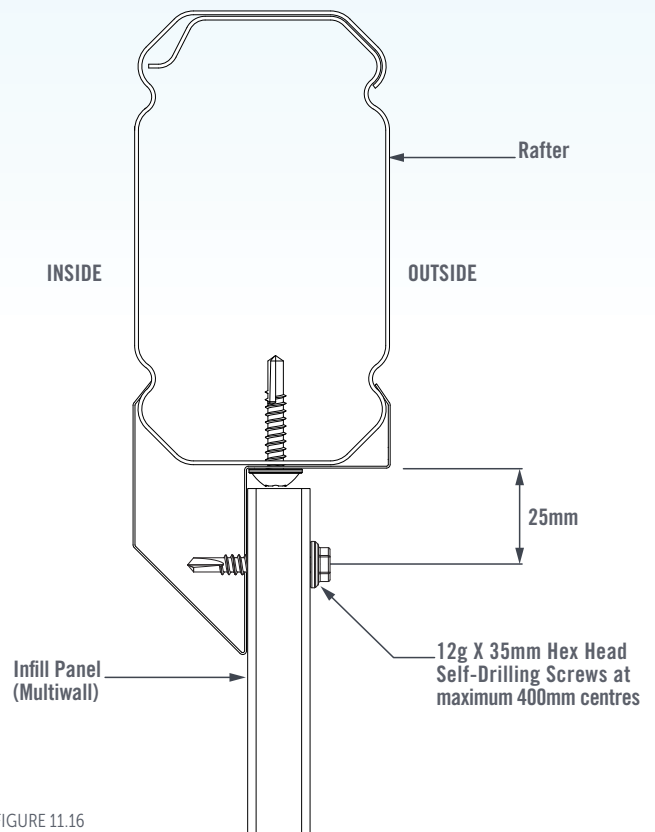


FIGURE 11.16

Fix the Infill Panel to the Header Beam Infill Fixing Flashing using 12g x 35mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 25mm from the horizontal face of the Infill Fixing Flashings (Figure 11.17).

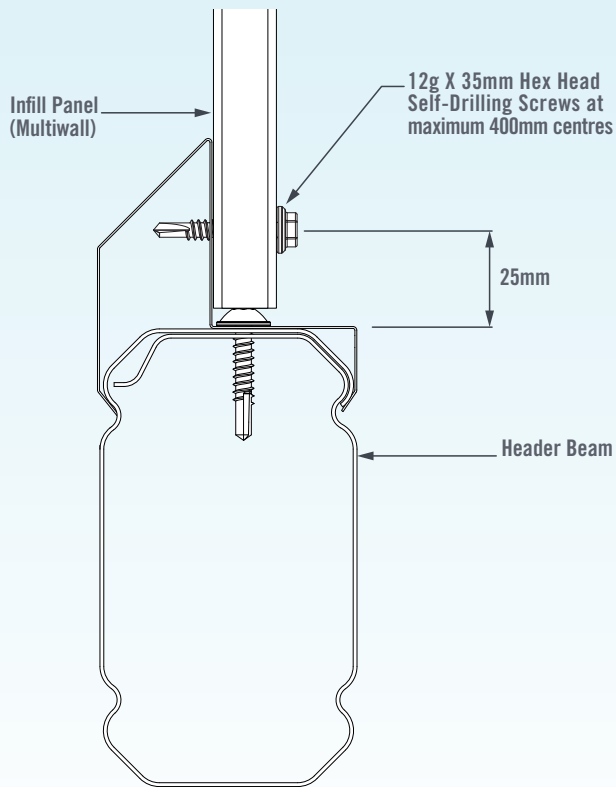


FIGURE 11.17

If Strut Posts are used, fix the Infill Panel to the Strut Post Infill Fixing Flashings using 12g x 35mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 25mm from the Strut Post fixing face of the Infill Fixing Flashings (Figure 11.18).

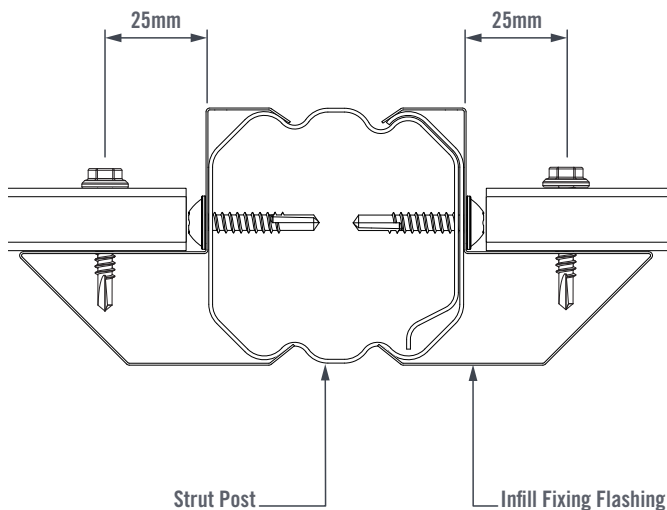


FIGURE 11.18

NEW GENERATION ALUMINIUM SLAT INFILL PREPARATION

Three configurations of Infill Panel are available.

Single Panel Infill (Figure 11.19).

Two Panel Infill with Centre Strut (Figure 11.20).

Four Panel Infill with Centre Strut and Side Struts (Figure 11.21).

Measure the internal opening for infill dimensions.

Use a spacer for a consistent 10mm gap between slats.

Cut each Slat to size, with a 22° cut at each end (Figure 11.22) or a 90° square end if the Slat is fixing against an Infill Strut.

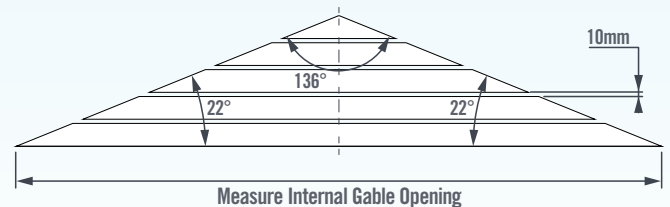


FIGURE 11.19

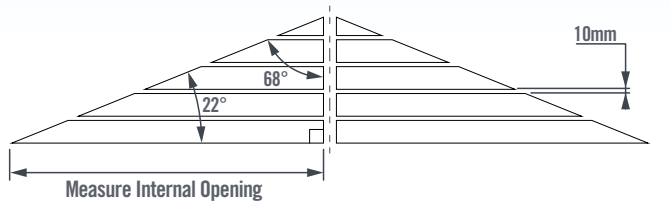


FIGURE 11.20

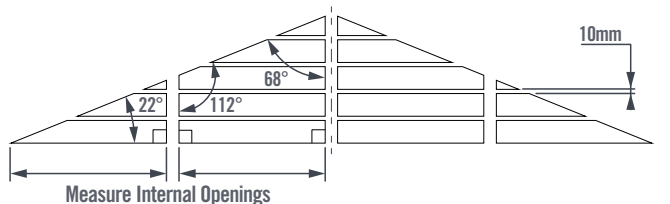


FIGURE 11.21

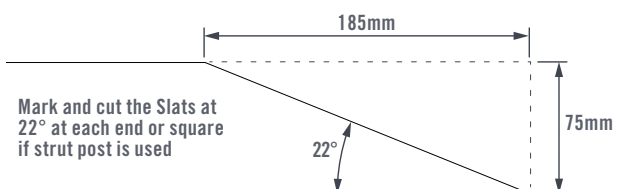


FIGURE 11.22

ALUMINIUM SLAT INFILL INSTALLATION

Position the first Aluminium Slat so that it sits horizontally, and firmly against the vertical face of the Infill Fixing Flashing.

Secure the first Slat in-place at the Rafters, or Rafter & Strut. Use 12g x 35mm Hex Head Self-Drilling screws spaced at maximum 400mm centres, and 25mm from the Header Beam fixing face of the Infill Fixing Flashings (Figures 11.23 & 11.24).

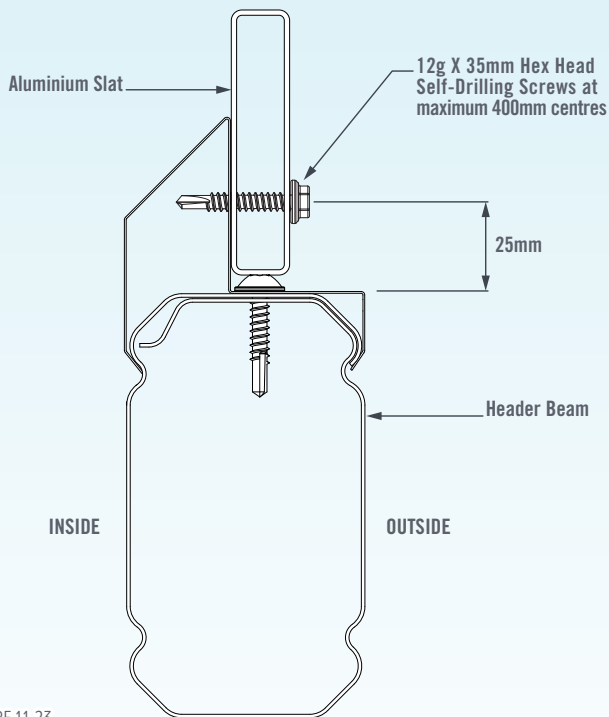


FIGURE 11.23

Using a spacer, position the next Slat so that there is a consistent 10mm gap between Slats.

Fix each Slat to the Infill Fixing Flashing on the Rafter and/or Strut using 2x 12g x 35mm Hex Head Self-Drilling screws in the end of each slat. Position the screws 25mm from the Rafter fixing face of the Infill Fixing Flashing (Figure 11.24).

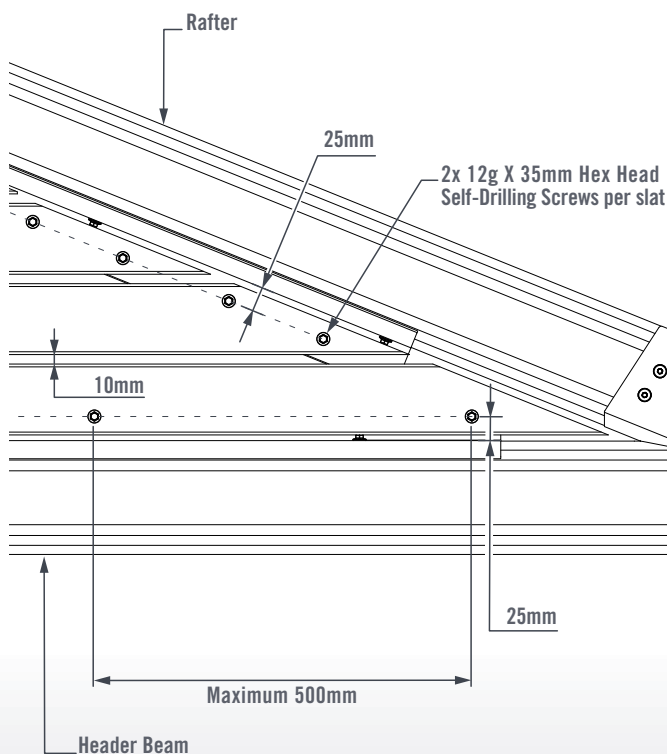


FIGURE 11.24

INFILL Z-D RIP FLASHING INSTALLATION (FIBRE CEMENT & MULTIWALL)

When installing Infill Panels adjacent to a house gutter or box gutter, an Infill Z-Drip Support Flashing and Infill Z-Drip Flashing are required to lift the panel and allow water to flow into the gutter.

Fix the Infill Z-Drip Support Flashing through the Infill Fixing Flashing and into the Header Beam using Outback Self-Drilling screws at 500mm Centres (Figures 11.26 & 11.27).

Fix the Infill Z-Drip Flashing to the Infill Z-Drip Support Flashing using 12g X 20mm Hex Head Self-Drilling Screws at 500mm centres. (Figures 11.26 & 11.27).

Fibre Cement panels and Multiwall Panels are fixed to the Infill Z-Drip Support Flashing using Soft-Pull Rivets at 500mm centres and 20mm from the top edge (Figures 11.26 & 11.27).

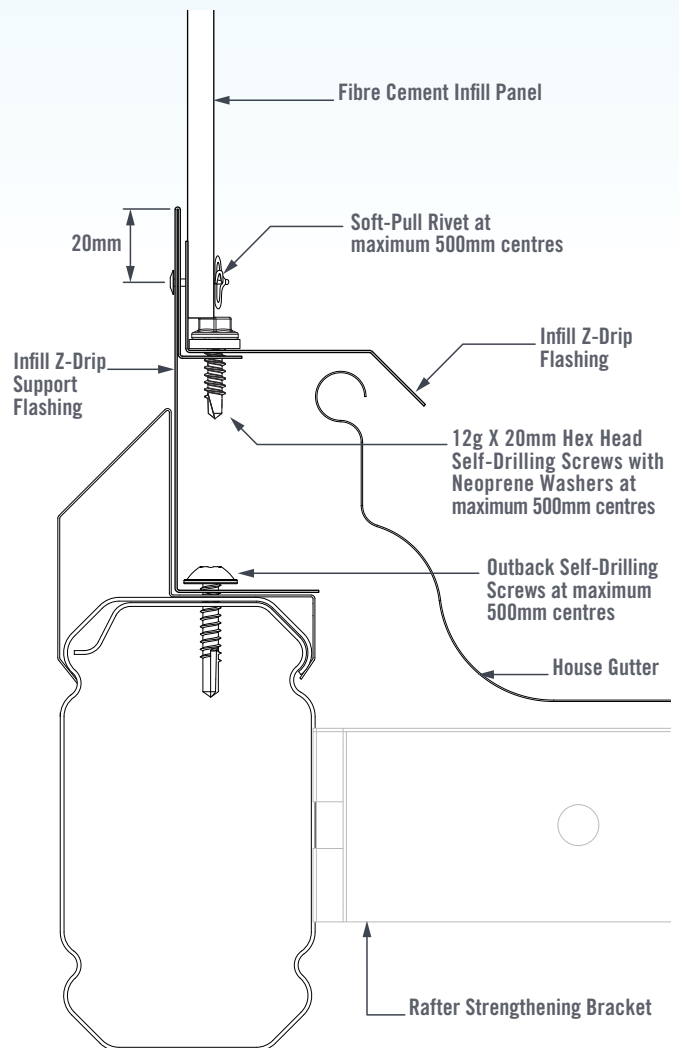


FIGURE 11.26

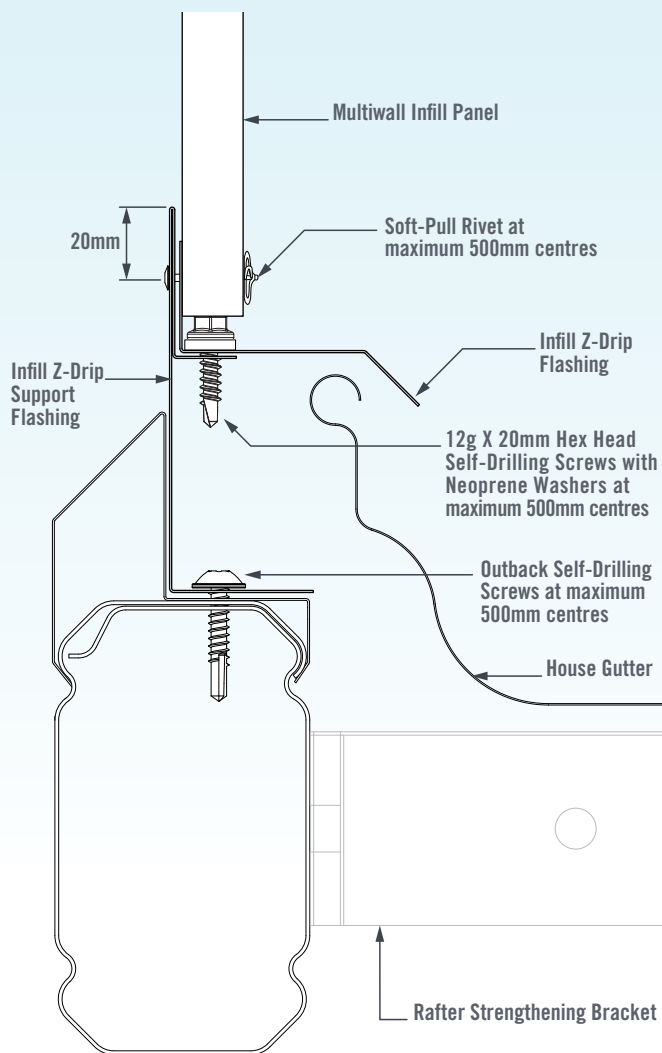


FIGURE 11.27

INFILL Z-DRIP FLASHING INSTALLATION (ALUMINIUM SLAT)

When installing Infill Panels adjacent to a house gutter or box gutter, an Infill Z-Drip Support Flashing and Infill Z-Drip Flashing are required to lift the panel and allow water to flow into the gutter.

Fix the Infill Z-Drip Support Flashing through the Infill Fixing Flashing and into the Header Beam using Outback Self-Drilling screws at 500mm Centres (Figure 11.28).

Fix the Infill Z-Drip Flashing to the Infill Z-Drip Support Flashing using Outback Self-Drilling Screws at 500mm centres. (Figures 11.28).

Aluminium Slats are fixed using Ø3.2mm Rivets at 500mm centres and 20mm from the top edge of the Infill Z-Drip Support Flashing (Figure 11.28).

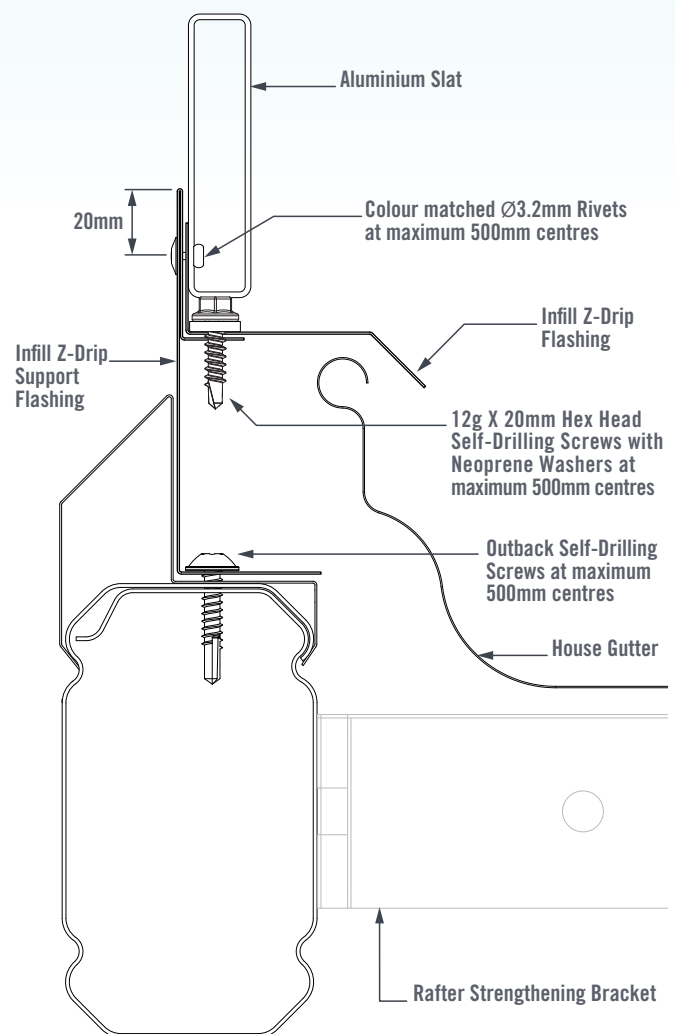


FIGURE 11.28

INFILL COVER FLASHING INSTALLATION

Place Infill Cover Flashings so that it nests over the Infill Fixing Flashing and covers the Infill Panel/Slat Fixings.

Fix the Infill Cover Flashing to the Infill Fixing Flashing using $\varnothing 3.2\text{mm}$ rivets 12mm from the flute fold, at a maximum spacing of 500mm centres (Figures 11.29 to 11.31).

Run a bead of silicone along the edge of the Infill Cover Flashing where it meets the Infill Panel (Figures 11.29 to 11.31).

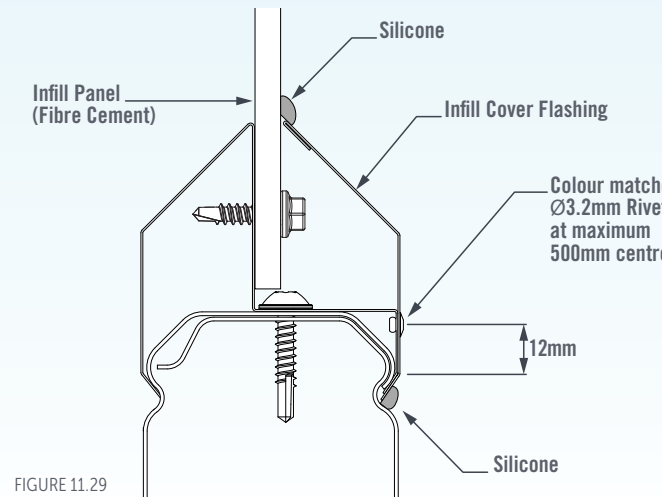


FIGURE 11.29

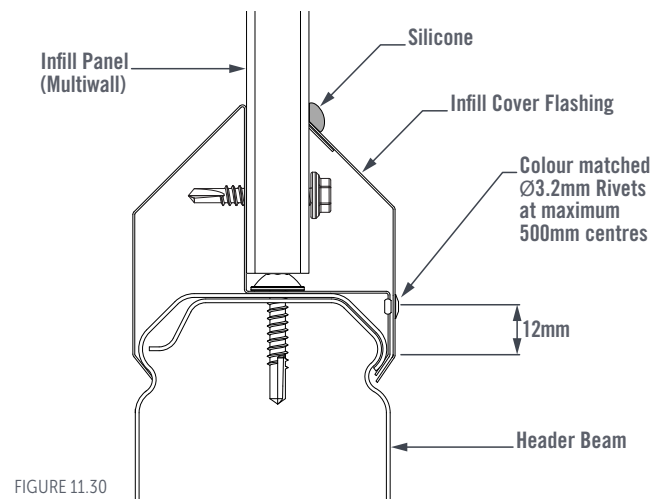


FIGURE 11.30

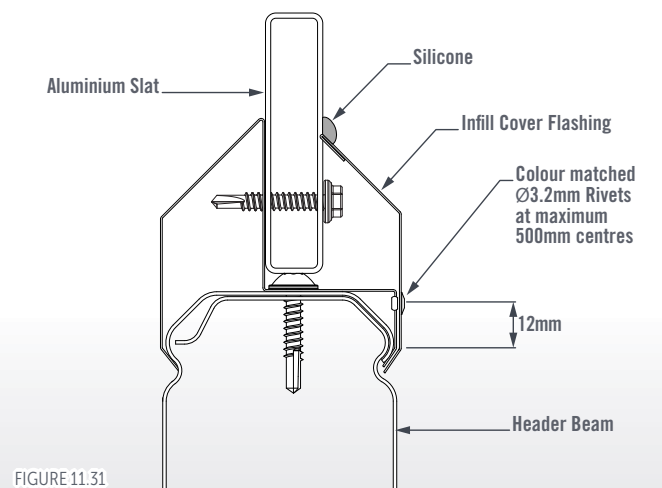


FIGURE 11.31

If Strut Posts are required, Infill cover Flashings are positioned side-by-side along the Strut Post.

Place the Infill Cover Flashings so that they nest over the Infill Fixing Flashing and cover the Infill Panel/Slat Fixings.

Fix the Infill Cover Flashing to the Infill Fixing Flashing using $\varnothing 3.2\text{mm}$ rivets 12mm from the flute fold, at a maximum spacing of 500mm centres (Figures 11.32 & 11.33).

Run a bead of silicone along the edge of the Infill Cover Flashing where it meets the Infill Panel (Figures 11.32 & 11.33).

Note: Infill Panels using Aluminium Slats will only require a bead of silicone along the base Slat.

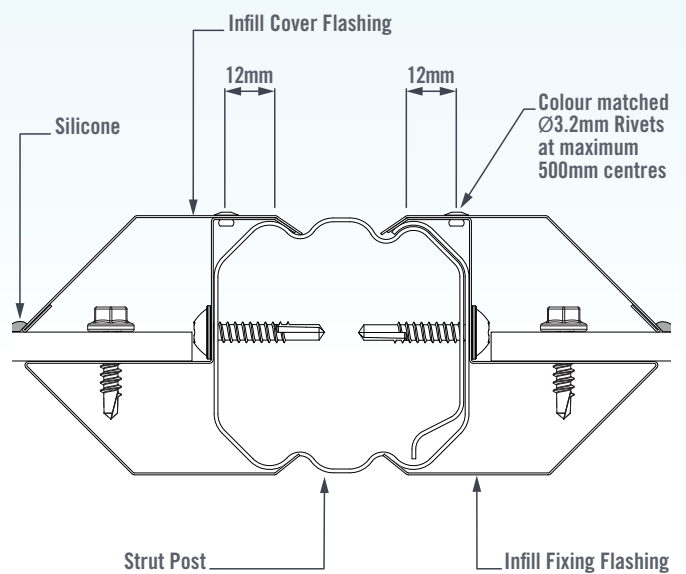


FIGURE 11.32

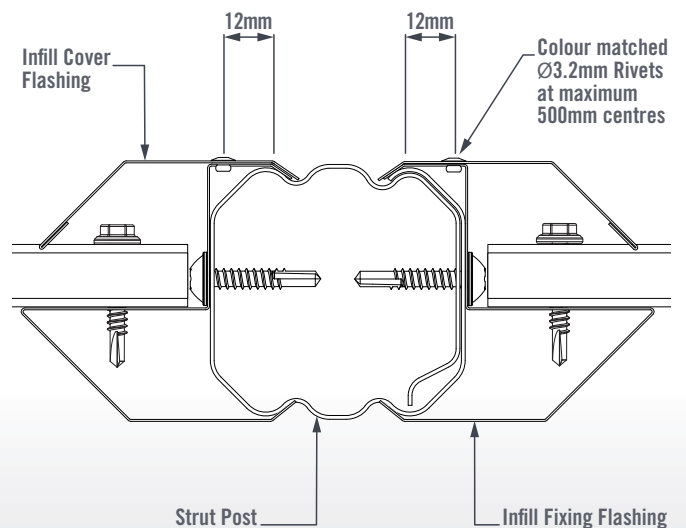


FIGURE 11.33

NEW GENERATION INFILL PANEL CAPPING

INFILL CORNER CAP PREPARATION

Measure the distance the Infill Corner Caps overlap the Rafter-to-Header Brackets by placing the Infill Corner Cap in position (Figure 11.34).

Trim the required amount from the Infill Corner Cap so that it will fit over the Rafter-to-Header Bracket (Figure 11.34).

Repeat this process for the opposite corner, and the remaining Infill Corner Caps on the other side of the Infill Panel (Figure 11.35).

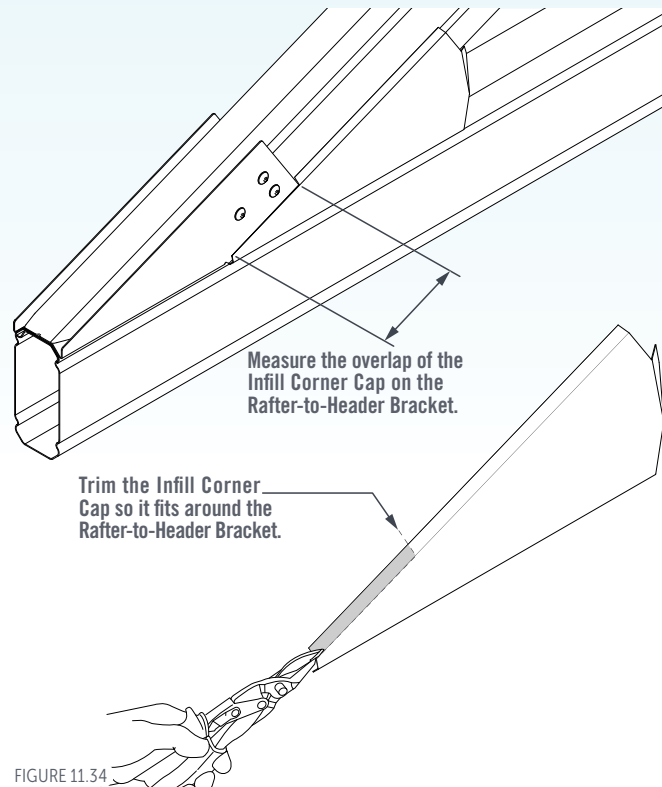


FIGURE 11.34

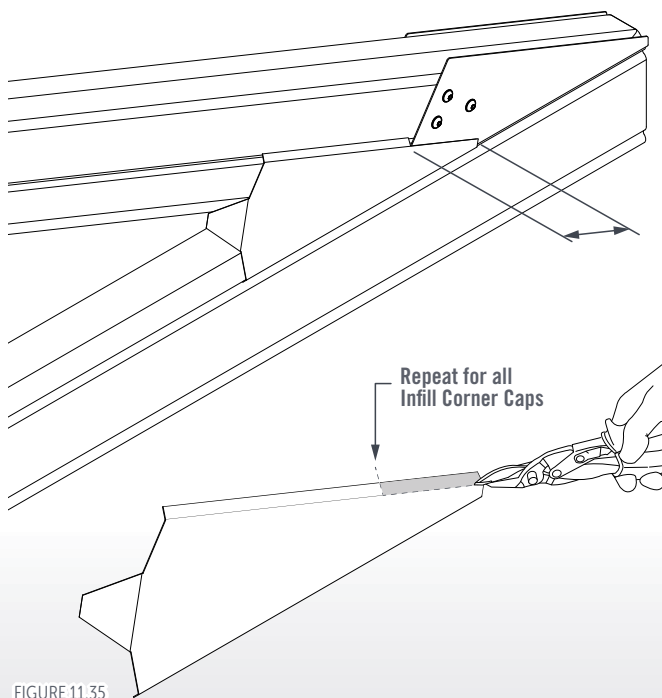


FIGURE 11.35

INFILL CORNER CAP INSTALLATION

Position the Infill Corner Cap over the Infill Flashings at the junction of the Rafter and Header Beam (Figure 11.36).

Fix the Infill Corner Cap to the Infill Flashings and Rafter-to-Header Bracket using 3x Ø3.2mm rivets (Figure 11.37).

Repeat this process for the opposite corner and the other side of the Infill Panel.

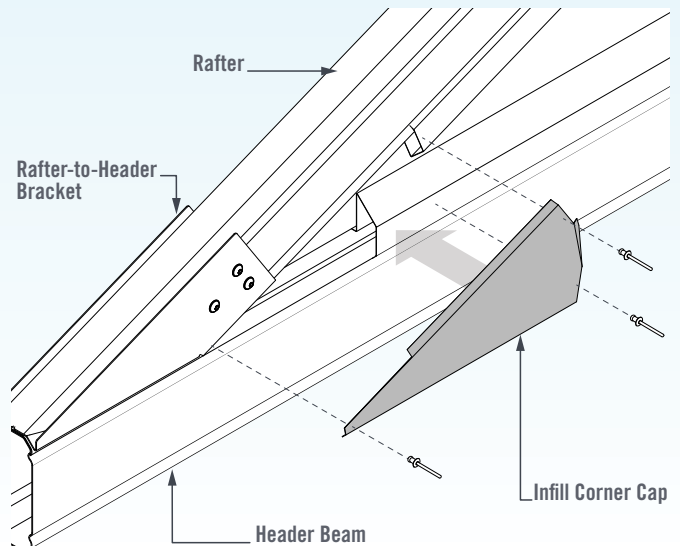


FIGURE 11.36

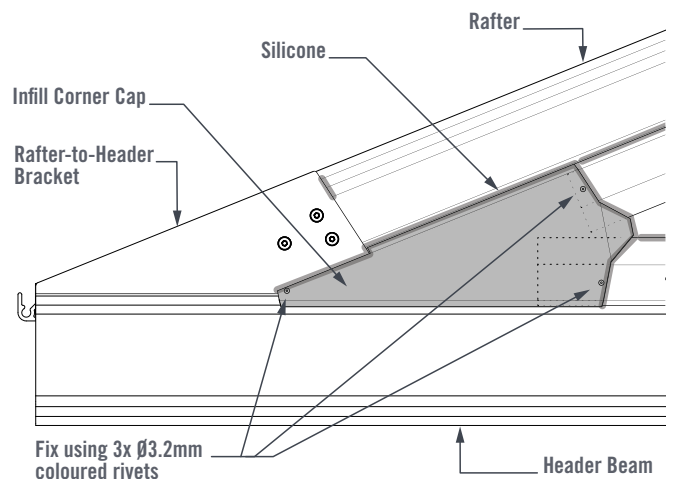


FIGURE 11.37

INFILL APEX CAP INSTALLATION

Position the Infill Apex Cap over the Infill Flashings at the apex of the Rafter Set (Figure 11.38).

Fix the Infill Apex Cap to the Infill Flashings using 2x Ø3.2mm coloured rivets (Figure 11.39).

Repeat this process for the other side of the Infill Panel.

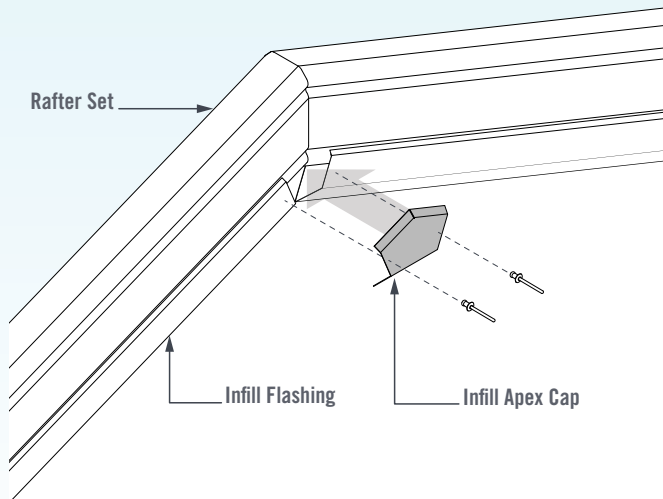


FIGURE 11.38

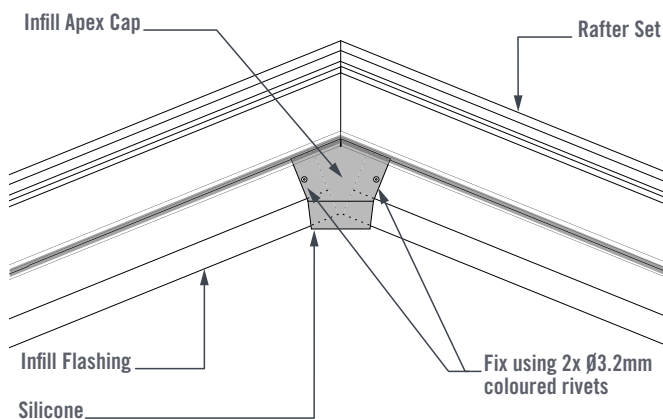


FIGURE 11.39

INFILL STRUT CAP INSTALLATION

Position the Infill Strut Cap over the Infill Flashings on the Strut Post and the apex of the Rafter Set (Figure 11.40).

Fix the Infill Strut Cap to the Infill Flashings using 4x Ø3.2mm coloured rivets (Figure 11.41).

Repeat this process for the other side of the Infill Panel.

Run a bead of silicone along the top edge of the Infill Flashing and Strut Cap on the outside of the Gable unit to minimise water ingress (Figure 11.41).

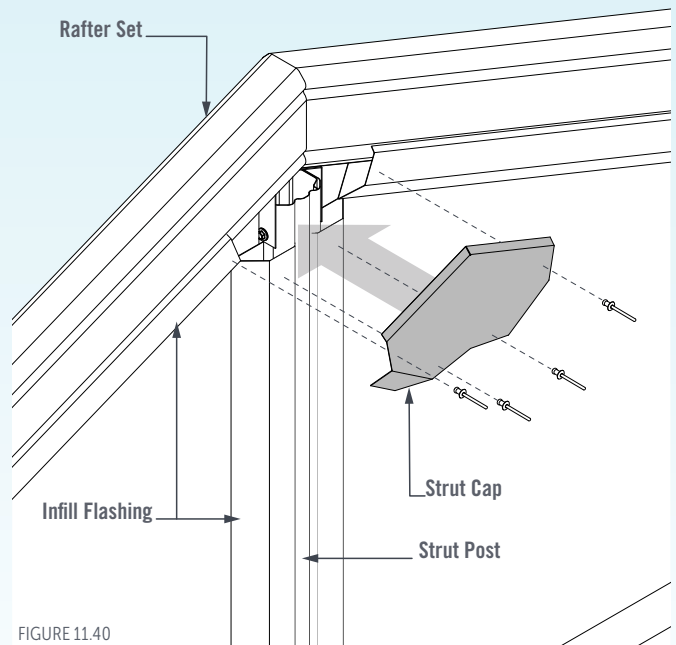


FIGURE 11.40

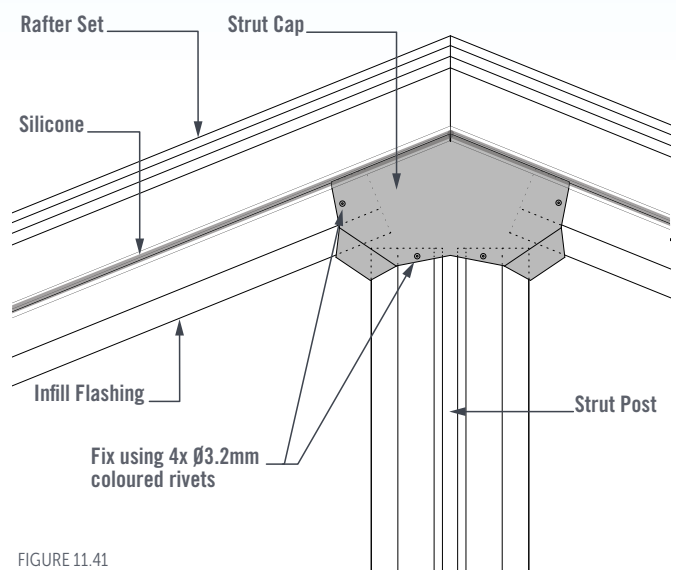


FIGURE 11.41

INFILL BASE CAP INSTALLATION

Position the Infill Base Cap over the Infill Flashings on the Strut Post and Header Beam (Figure 11.42).

Fix the Infill Base Cap to the Infill Flashings using 4x Ø3.2mm coloured rivets (Figure 11.43).

Repeat this process for the other side of the Infill Panel.

Run a bead of silicone between the Infill Flashing and the Infill Panel on the outside of the unit to minimise water ingress (Figure 11.43).

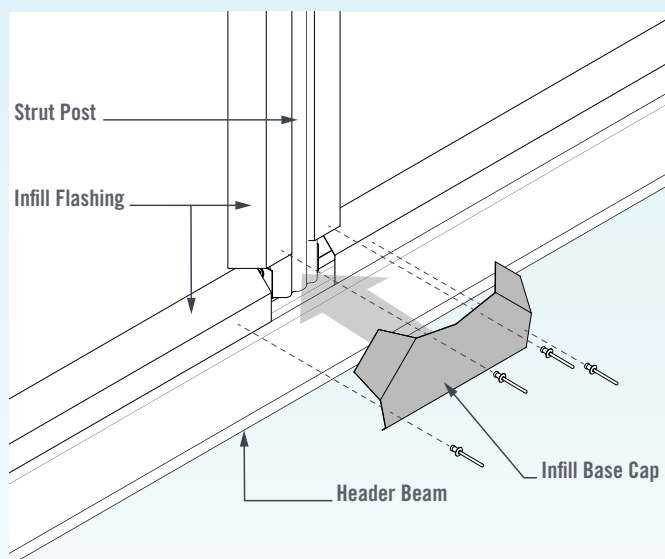


FIGURE 11.42

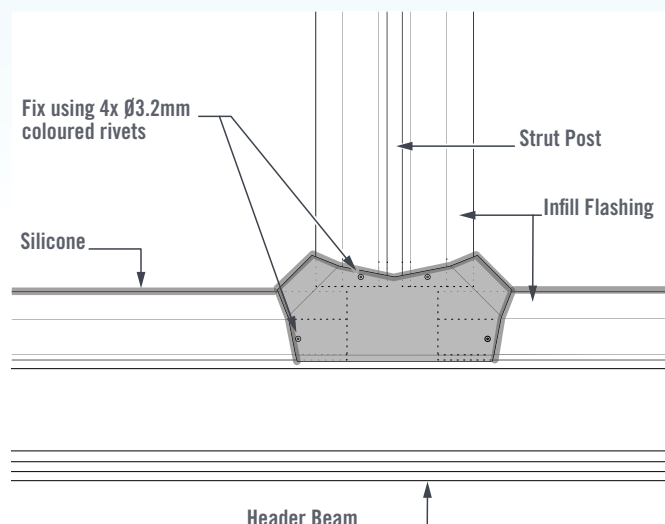


FIGURE 11.43

INFILL SIDE STRUT CAP INSTALLATION

Position the Infill Side Strut Cap over the Infill Flashings on the Side Strut Posts and the Rafter (Figure 11.44).

Fix the Infill Side Strut Cap to the Infill Flashings using 4x Ø3.2mm coloured rivets (Figure 11.44).

Repeat this process for the opposite Side Strut Cap and the other side of the Infill Panel.

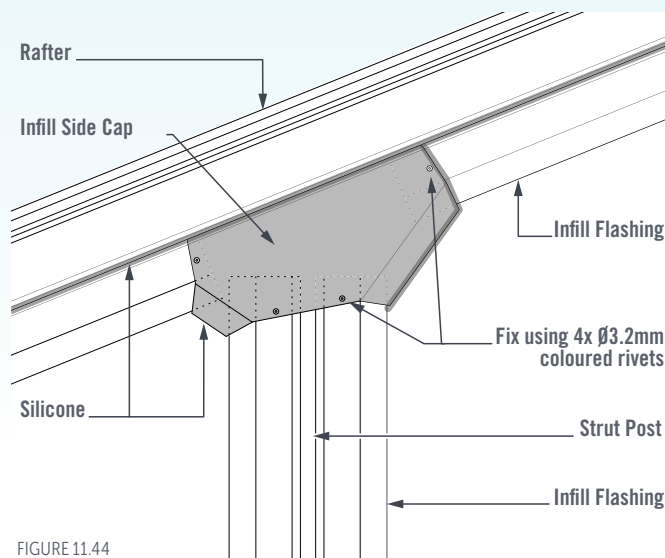


FIGURE 11.44

TRADITIONAL INFILL INSTALLATION (FACE-FIX)

Infill panels can be supplied in the traditional face-fix configuration, where they are fixed to the outside face of the Rafters.

INFILL PANEL PREPARATION

NO ADJACENT HOUSE GUTTER

Cut the supplied panel/s to the required size, ensuring enough overlap onto the Rafter Set and Header Beam to allow for fixings and Barge Cap and Header Flashing coverage (Figure 11.45).

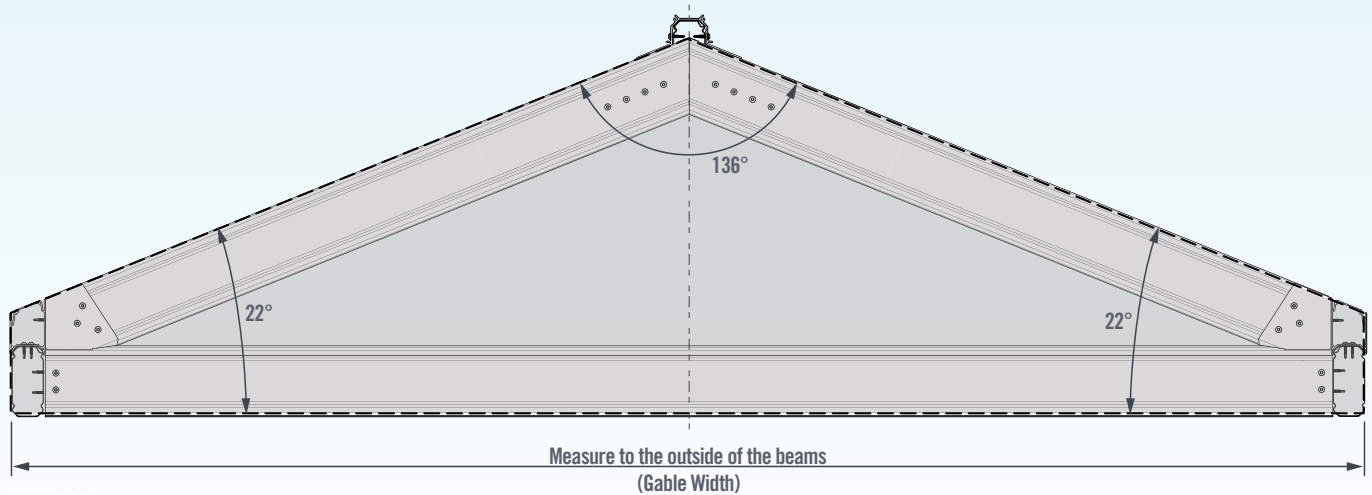


FIGURE 11.45

INFILL PANEL PREPARATION

ADJACENT HOUSE GUTTER OR HEADER BEAM PERIMETER GUTTER

Cut the supplied panel/s to the required size, ensuring enough overlap onto the Rafter Set to allow for fixings and Barge Cap coverage (Figure 11.46).

Cut the panel/s horizontally from the top of the Header Beam to allow for the Z-Drip Support Flashing (Figure 11.50) or Perimeter Gutter Support Flashing (Figure 11.51) to be installed.

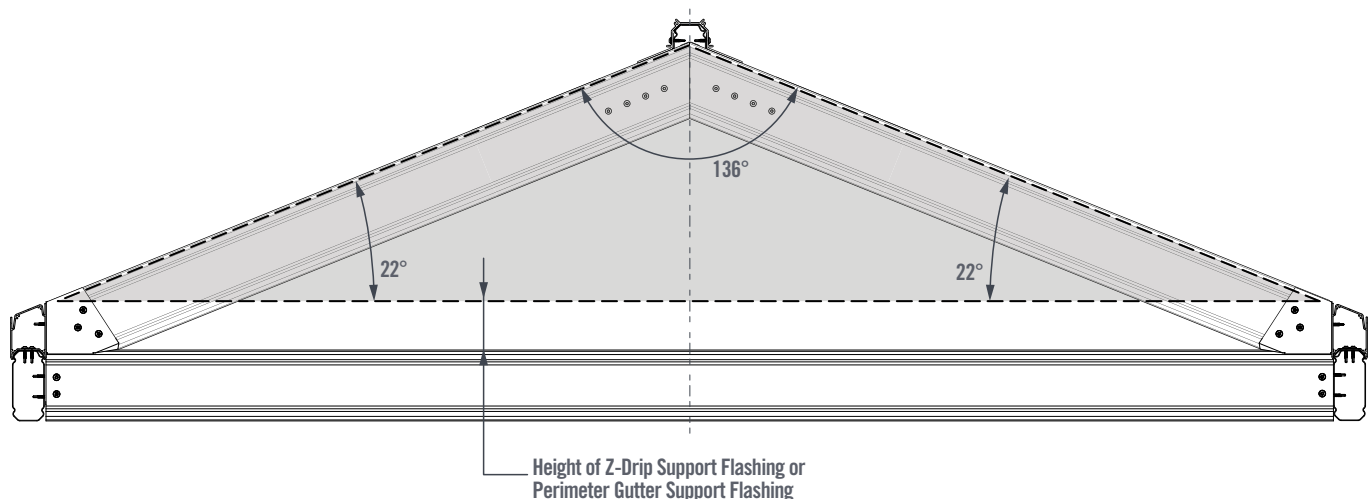


FIGURE 11.46

INFILL PANEL INSTALLATION

Position the Infill Panel on the outside face of the Rafter Set. Fix the Infill Panel to the Rafters using Outback Self-Drilling Screws 20mm from the edge of the panel at maximum 500mm centres (Figure 11.47).

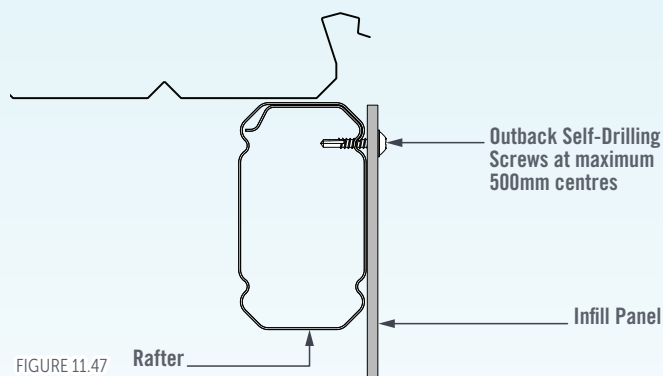


FIGURE 11.47

Install the Barge Cap over the Infill Panel (Figure 11.48) using the same procedure as described in detail in the Barge Capping Installation section (Page 12.6).

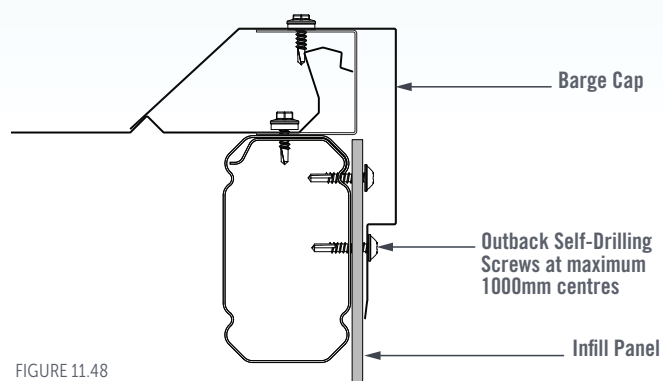


FIGURE 11.48

HEADER FLASHING INSTALLATION

NO ADJACENT HOUSE GUTTER

Trim the Header Flashing around any Columns and fix into place through the Infill Panel using Outback Self-Drilling Screws at Maximum 500mm centres (Figure 11.49).

Fix the Header Flashing to the bottom face of the Header Beam using Outback Self-Drilling Screws at 1000mm centres.

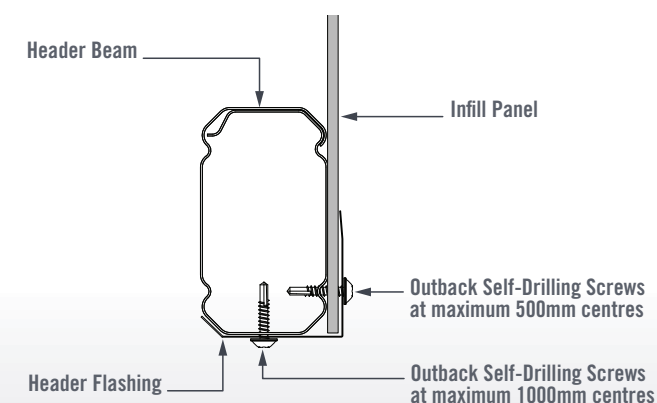


FIGURE 11.49

Z-DRIP FLASHING INSTALLATION

ADJACENT HOUSE GUTTER

NOTE:

In some instances a "Z-Drip Support Cover Flashing" may be required (Figures 11.50 to 11.52).

Fix the Z-Drip Support Cover Flashing to the Z-Drip Support Flashing using Ø3.2mm Colour Rivets at maximum 500mm centres (Figures 11.52 to 11.54).

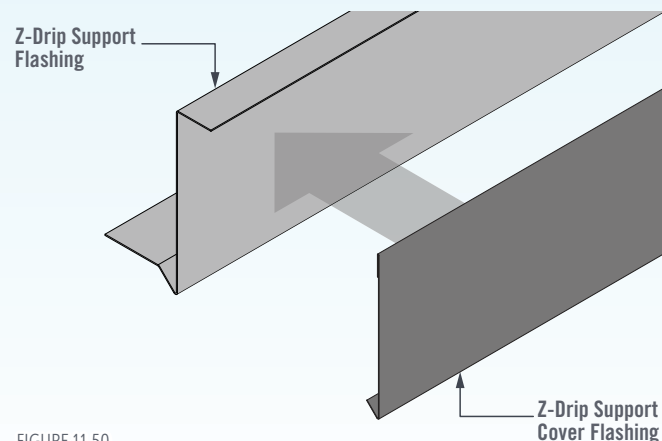


FIGURE 11.50

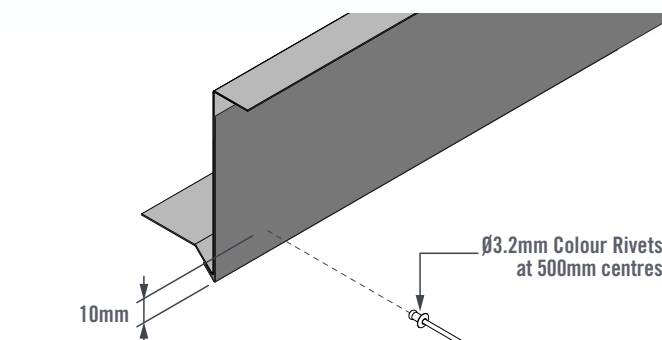


FIGURE 11.51

Position the Z-Drip Support Flashing (Traditional) on top of the Header Beam so the vertical face is flush with the outside face of the Rafters (Figure 11.52). Fix the Z-Drip Support Flashing to the Rafters with 1x Outback Self-Drilling Screw at each end (Figure 11.52).

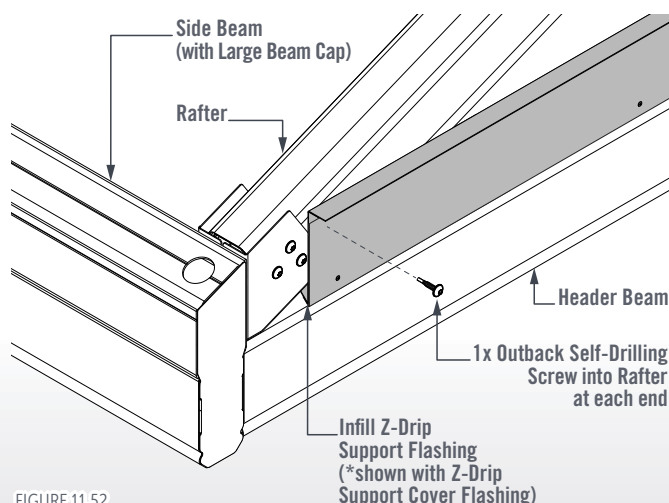


FIGURE 11.52

Fix the Z-Drip Support Flashing (Traditional) to the Header Beam using Outback Self-Drilling Screws at maximum 500mm centres (Figure 11.54).

Fix the Z-Drip Flashing (Traditional) to the Z-Drip Support Flashing using 12g X 20mm Hex Head Self-Drilling Screws with Neoprene Washers at maximum 500mm centres, ensuring the vertical faces are flush (Figures 11.53 & 11.54).

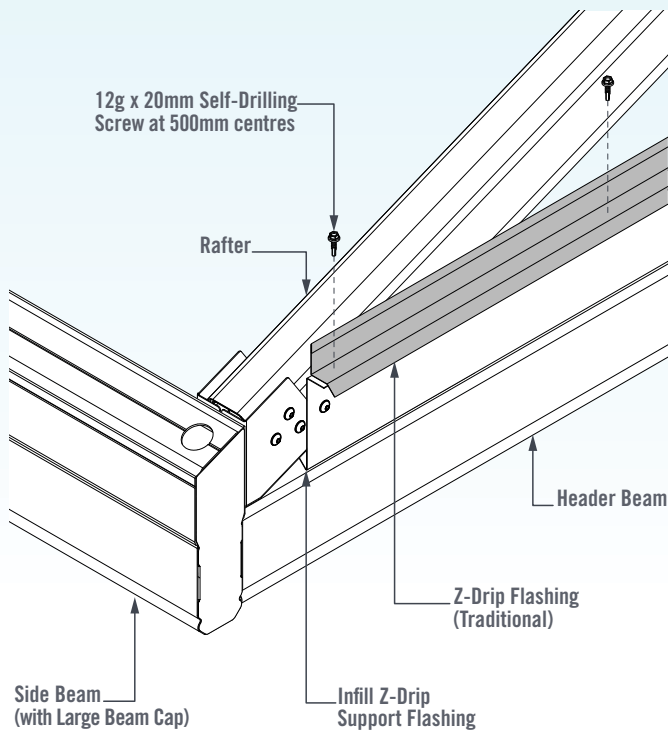


FIGURE 11.53

Fix the Infill Panel to the Infill Z-Drip Flashing (Traditional) from the inside of the unit using Soft-Pull Rivets at 500mm Centres (Figure 11.54).

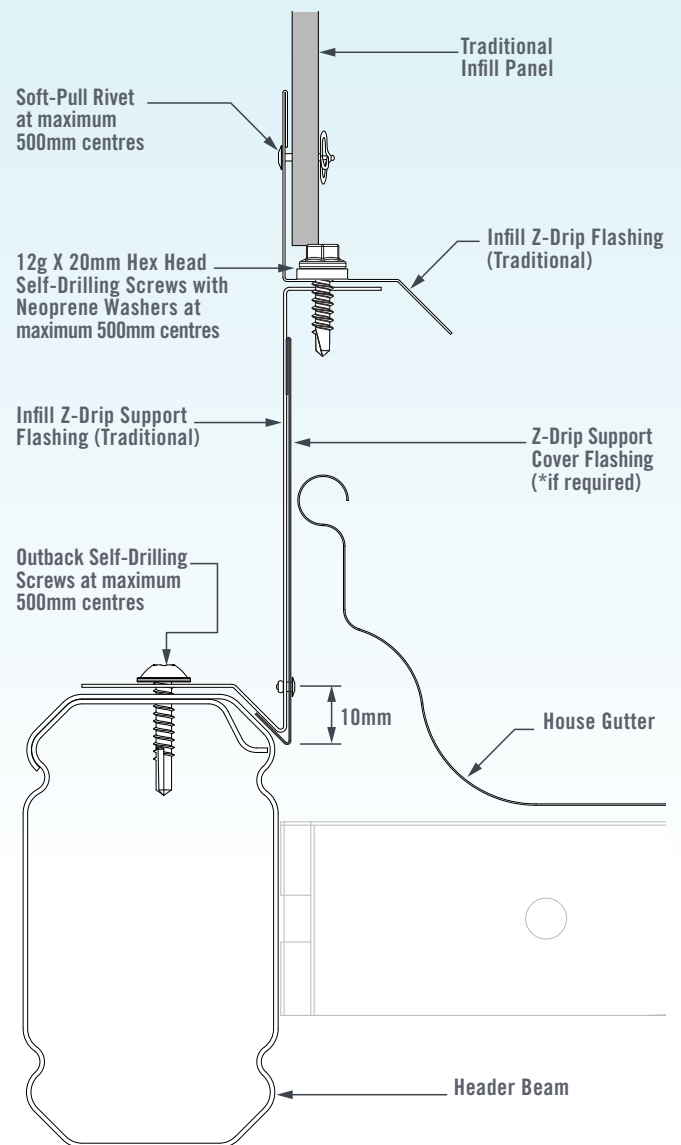


FIGURE 11.54

HEADER BEAM PERIMETER GUTTER

Position the Z-Drip Support Flashing (Traditional) on top of the Header Beam so the vertical face is flush with the outside face of the Rafters (Figure 11.51).

Fix the Perimeter Gutter Support Flashing to the Header Beam using Outback Self-Drilling Screws at maximum 500mm centres (Figure 11.51).

Fix the Z-Drip Flashing (Traditional) to the Perimeter Gutter Support Flashing using 12g X 20mm Hex Head Self-Drilling Screws with Neoprene Washers at maximum 500mm centres, ensuring the vertical faces are flush (Figure 11.51).

Fix the Infill Panel to the Infill Z-Drip Flashing (Traditional) from the inside of the unit using Soft-Pull Rivets at 500mm Centres.

NOTE:

Figure 11.51 shows the tallest Perimeter Gutter Support available. This height varies depending on the Beam Cap and Roof Sheet combination being used, and may differ from what has been supplied.

The installation process is the same regardless of flashing height.

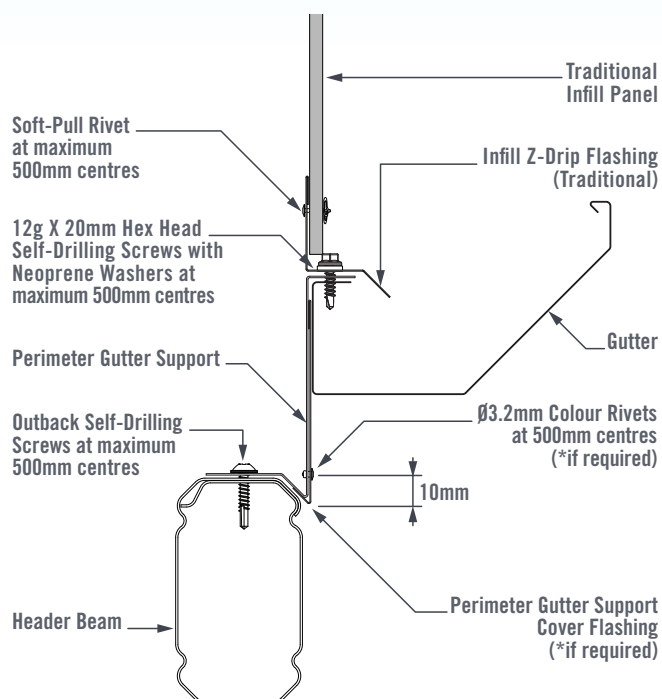


FIGURE 11.53

STRUT POST

When a Strut Post is being used, fix the Infill Panel to the Strut Post Using Outback Self-Drilling Screws at 500mm centres.

SKIP FORWARD FOR;

Split Width Infill Panel Installation - Page 14.18

12. FLASHING INSTALLATION

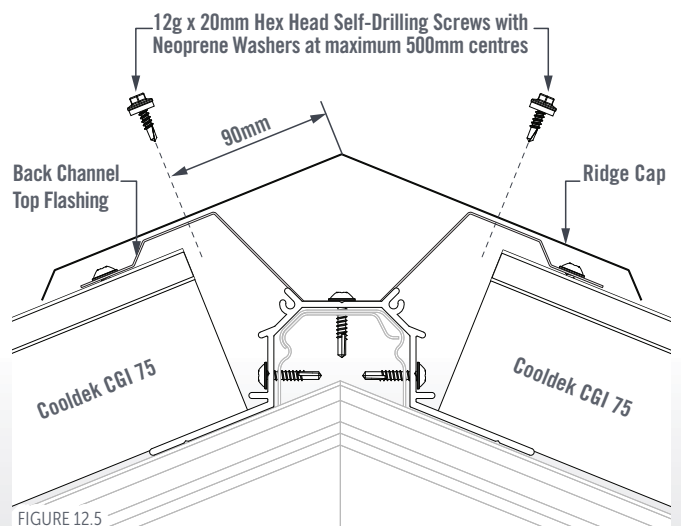
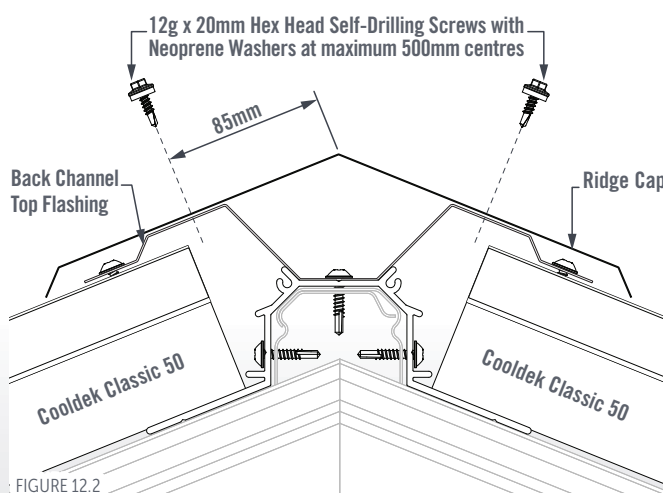
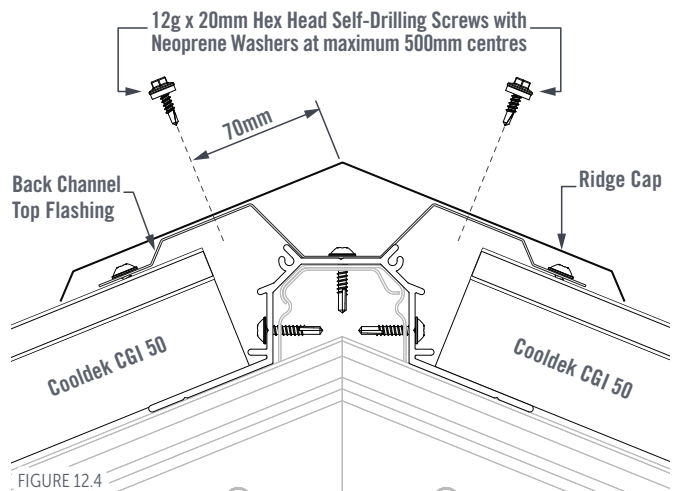
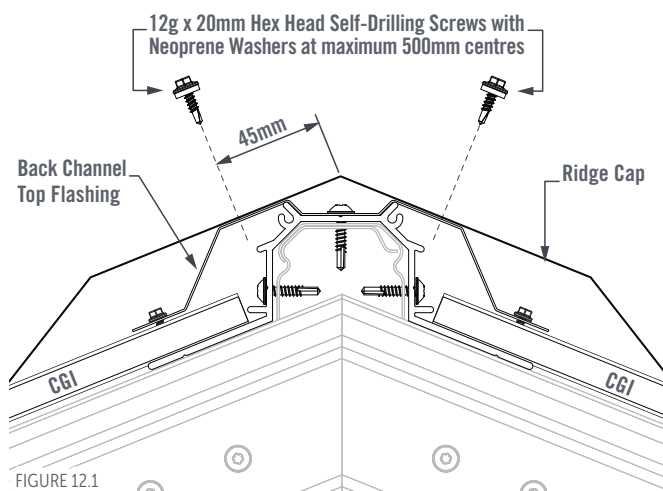
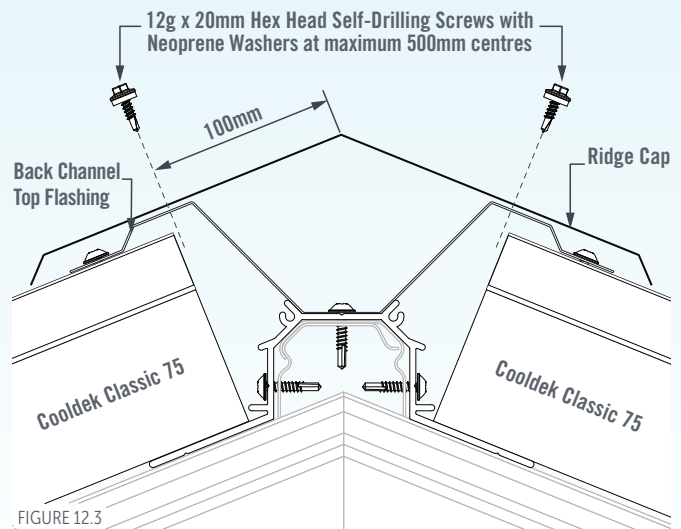
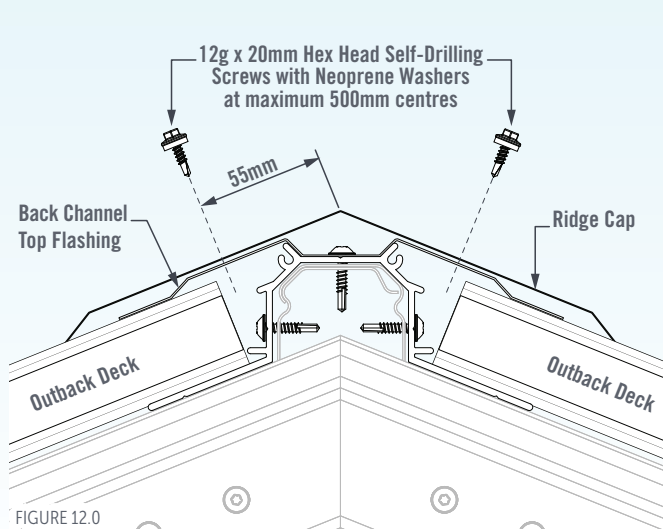
FLASHING INSTALLATION

RIDGE CAP INSTALLATION

Place the Ridge Cap centrally over the ridge so that it rests flat on either side of the Back Channel Top Flashing and covers the screws on each side. Ensure the Ridge Cap is centred at both ends of the unit and runs parallel with the ridge.

Use a string line to mark out the Ridge Cap fixing locations to ensure the screws are aligned with the flat fixing face along the Back Channel Top Flashing.

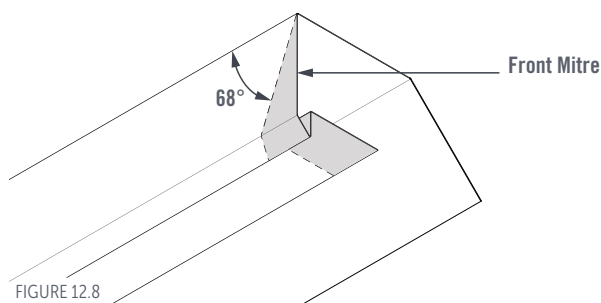
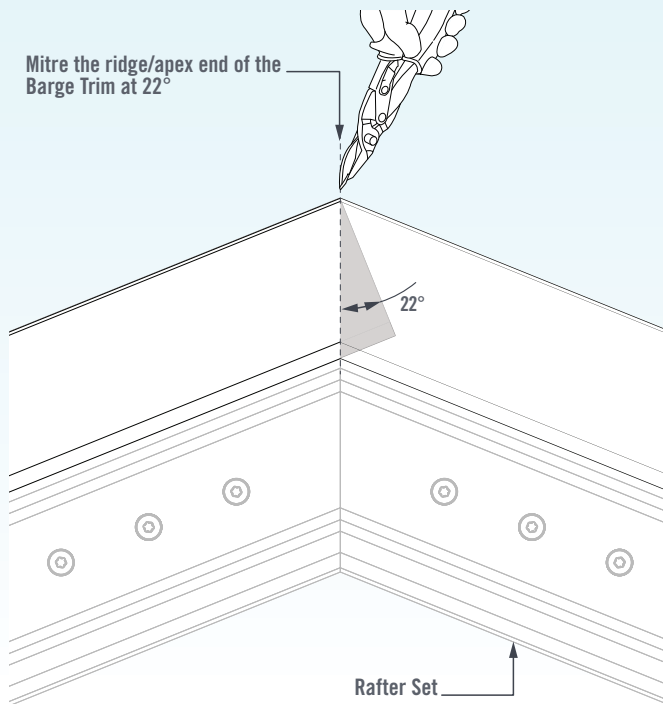
Fix the Ridge Cap to the Back Channel Top Flashing using 12g x 20mm Hex Head Self-Drilling Screws with Neoprene Washers at maximum 500mm centres (Figures 12.0 to 12.5).



BARGE TRIM PREPARATION

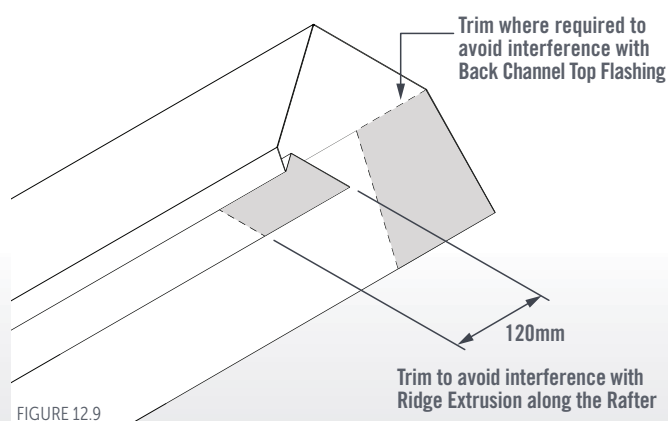
BARGE TRIM (APEX)

Mitre the ridge/apex end of one Barge Trim so that there is a neat vertical join (Figure 12.8).



Remove a 120mm section of the Barge Trim which rests on top of the Rafter to avoid interference with the Ridge Extrusion (Figure 12.9).

Remove a 120mm section of the back of the Barge Trim which interferes with the Back Channel Top Flashing.



BARGE TRIM (GUTTER END)

Finish the gutter end of the Barge Trim at a 68° angle so that it matches the angle of the Edge Gutter (Figure 12.10).

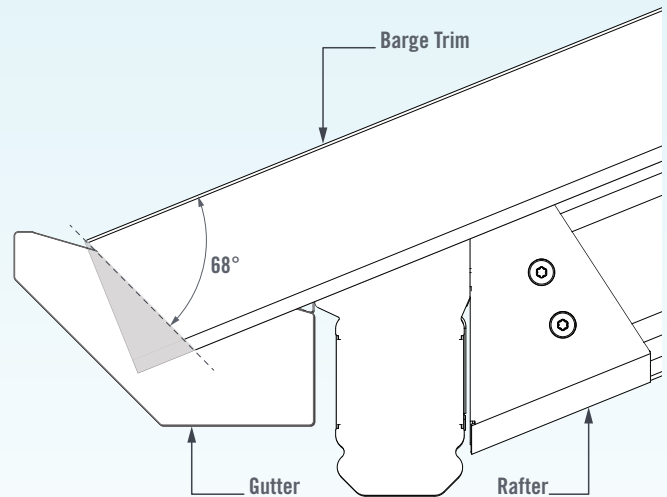


FIGURE 12.10

Cut the end of the Barge Trim at 68°, leaving 10mm extra to fold over and cover the gap between the Barge Trim and the Gutter (Figure 12.11).

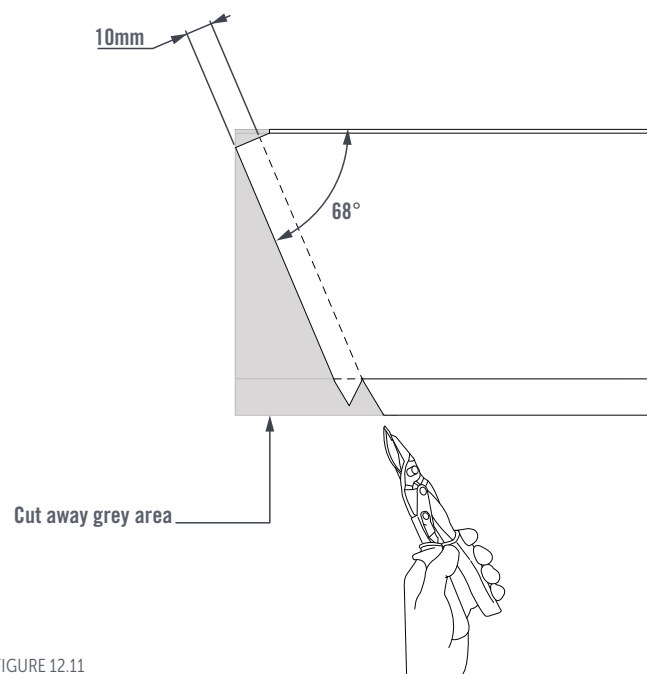


FIGURE 12.11

Fold up the small triangular section so it is flat and level with the 10mm wide section (Figures 12.12 & 12.13).

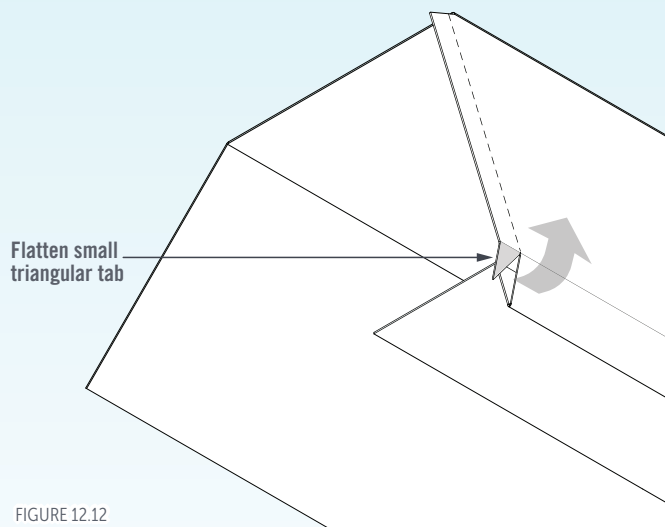


FIGURE 12.12

Fold the 10mm wide section down 90° so that it covers the gap between the outside face of the Barge Trim and the gutter. (Figures 12.13 & 12.14).

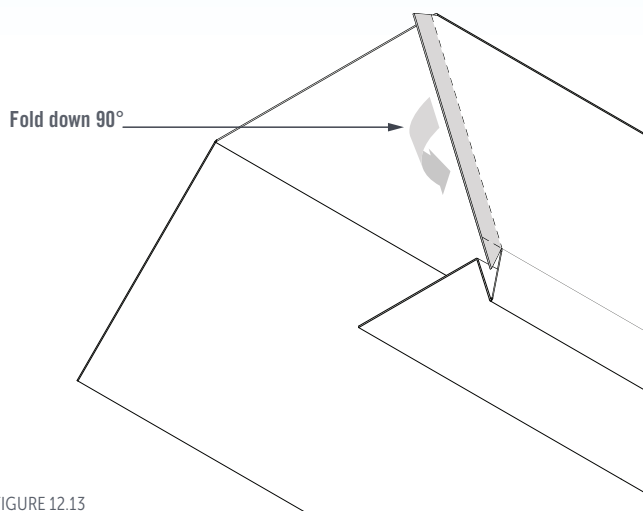


FIGURE 12.13

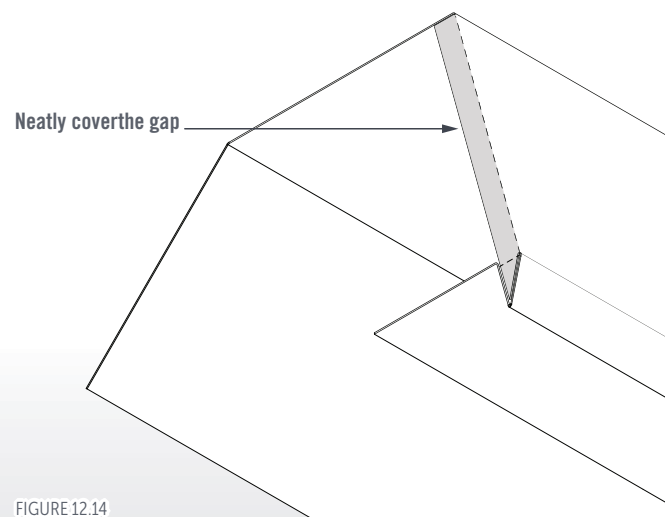


FIGURE 12.14

BARGE TRIM INSTALLATION OUTBACK DECK & CGI BARGE TRIM

Gable units with Outback Deck, CGI, or Polycarbonate roofing require the use of Barge Packers to assist in supporting Barge Trim.

Push Barge Packers under the roof deck in-line with purlins for CGI or Polycarbonate, or every 1000mm for Outback Deck. Fix Through the Roof Sheet, or lift the edge of the Roof Sheet and fix the Barge Packer to the Rafter using 1x 12g x 20mm Hex Head Self-Drilling Screw with Neoprene Washer (Figures 12.15 & 12.16).

Measure and mark the roof deck fixing locations along the Rafter on the Barge Trim and cut out small notches to avoid hitting the screws.

Push the Barge Trim so that it locates between the roof deck and the top face of the Rafter. The Barge Trim must also sit over the top of the Barge Packers and the top face of the roof sheets.

Fix through the top of the Barge Trim to the Barge Packers using 1x 12g x 20mm Hex Head Self-Drilling Screw in each Barge Trim Packer (Figures 12.15 & 12.16).

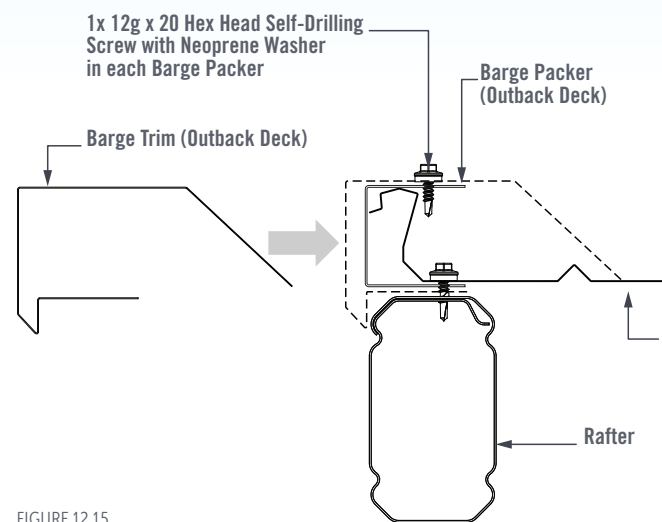


FIGURE 12.15

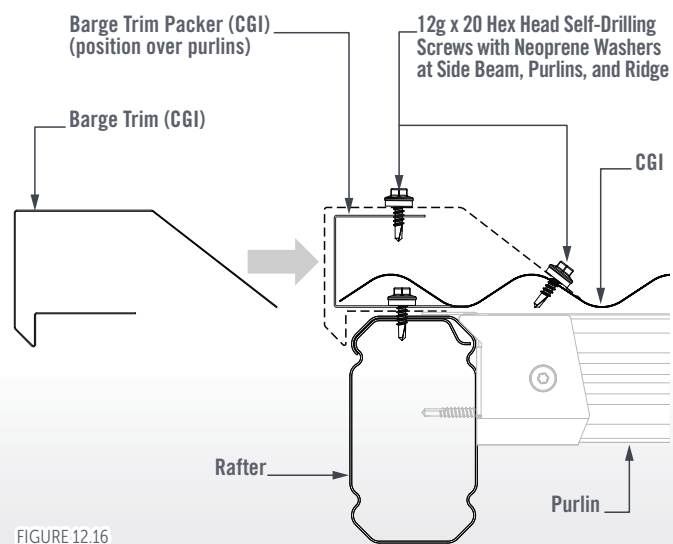


FIGURE 12.16

COOLDEK BARGE TRIM

Push the Barge Trim so that it locates between the roof deck and the top face of the Rafter.

Fix through the top of the Barge Trim to the nearest crest of the Cooldek Top Sheet using 12g x 20mm Hex Head Self-Drilling Screws at a maximum 1000mm centres (Figures 12.17 to 12.20).

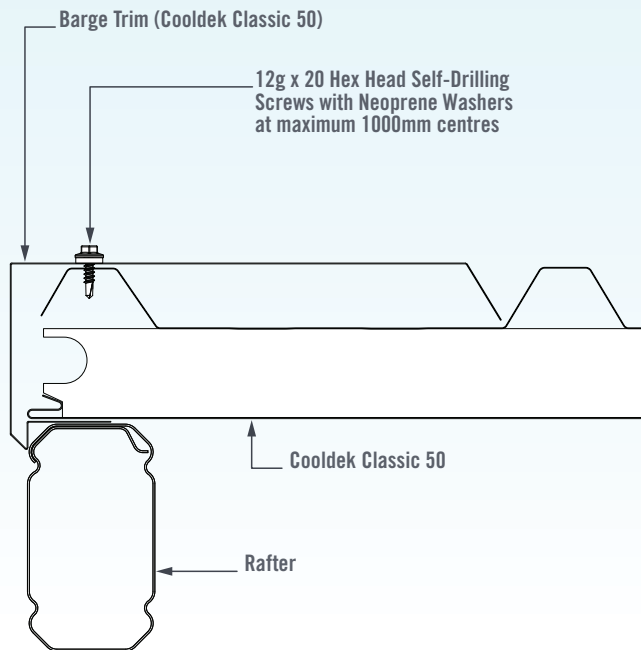


FIGURE 12.17

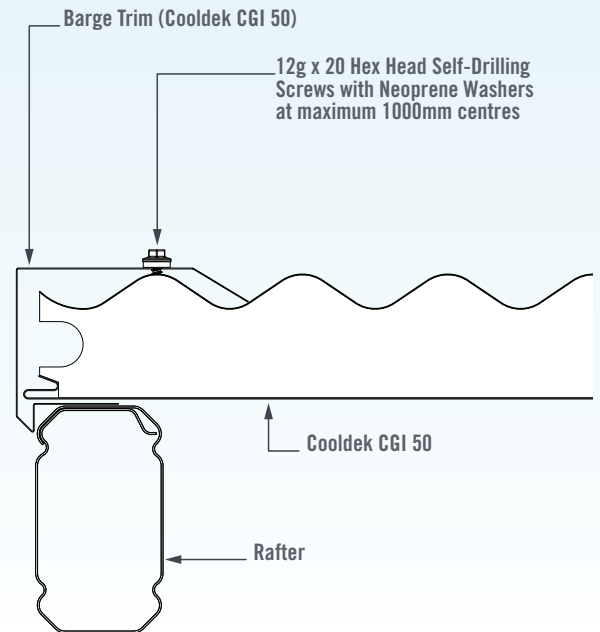


FIGURE 12.19

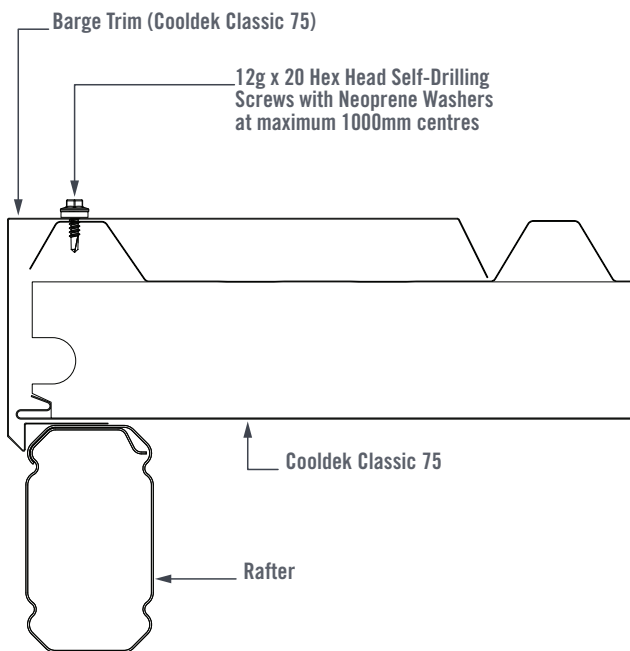


FIGURE 12.18

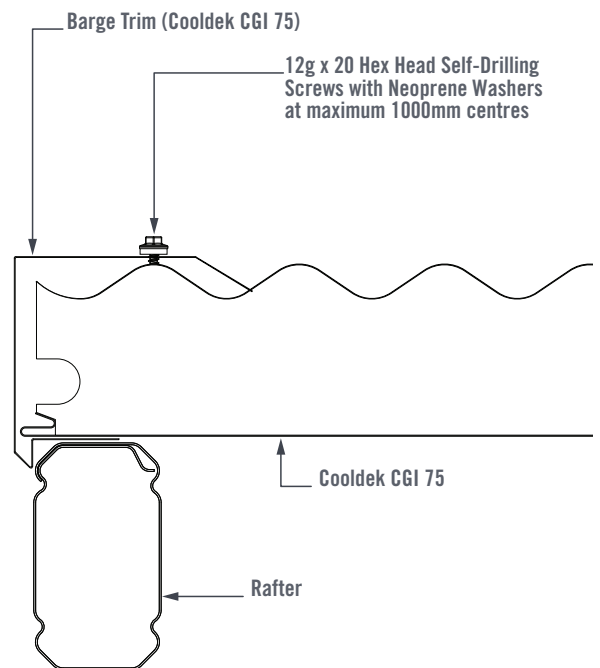
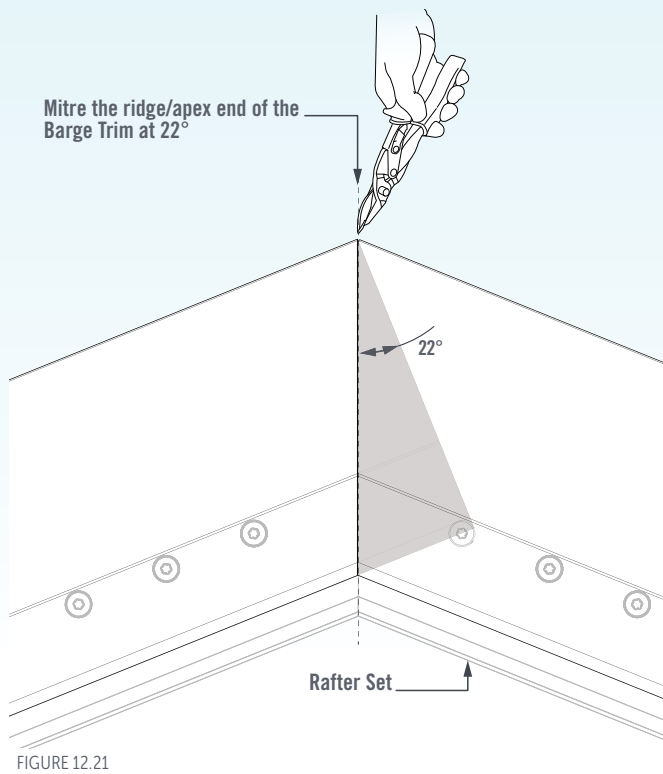


FIGURE 12.20

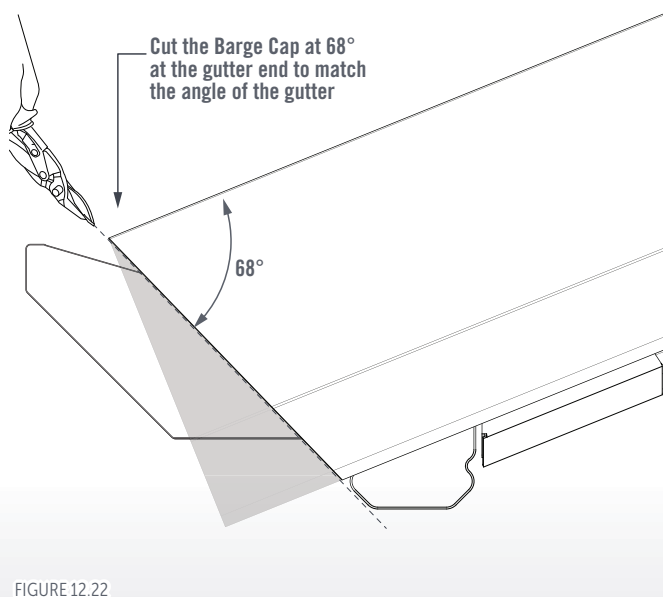
TRADITIONAL BARGE CAP INSTALLATION

TRADITIONAL BARGE CAP PREPARATION

Mitre the ridge/apex end of the Barge Cap so that there is a neat vertical join (Figure 12.21).



Cut the gutter end of the Barge Cap at 68° to match the angle of the Edge Gutter (Figure 12.22).



TRADITIONAL BARGE CAP INSTALLATION (OUTBACK DECK & CGI)

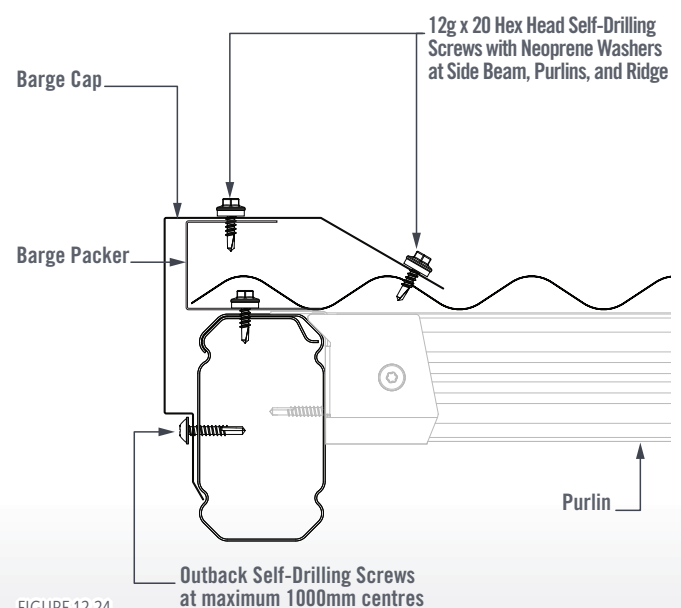
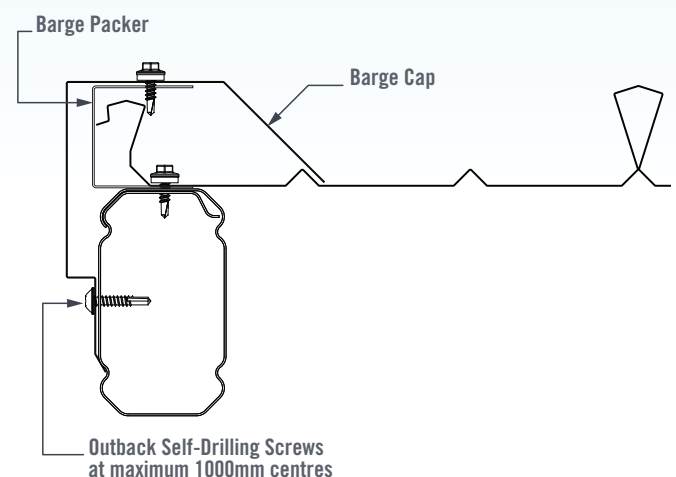
Gable units with Outback Deck, CGI, or Polycarbonate roofing require the use of Barge Packers to assist in supporting Traditional Barge Cap

Push Barge Packers under the roof deck in-line with purlins for CGI or Polycarbonate, or every 1000mm for Outback Deck. Fix Through the Roof Sheet, or lift the edge of the Roof Sheet and fix the Barge Packer to the Rafter using 1x 12g x 20mm Hex Head Self-Drilling Screw with Neoprene Washer (Figures 12.23 & 12.24).

Push the Barge Cap over the top of the Barge Packers so that the Barge Cap sits against the front face of the Rafter and rests on the Barge Packers.

Fix through the top of the Barge Cap into the Barge Packers using 1x 12g x 20mm Hex Head Self-Drilling Screw with Neoprene Washer in each Barge Packer (Figures 12.23 & 12.24).

Fix the front face of the Barge Cap to the face of the Rafter using Outback Self-Drilling Screws at maximum 1000mm centres.



TRADITIONAL BARGE CAP INSTALLATION (COOLDEK)

Position the Barge Cap so that it sits against the Rafter and rests on the crests of the Cooldek.

Fix through the top of the Barge Cap to the nearest crest of the Cooldek Top Sheet using 12g x 20mm Hex Head Self-Drilling Screws at a maximum 1000mm centres (Figures 12.25 to 12.28).

Fix the front face of the Barge Cap to the face of the Rafter using Outback Self-Drilling Screws at a maximum 1000mm centres (Figures 12.25 to 12.28).

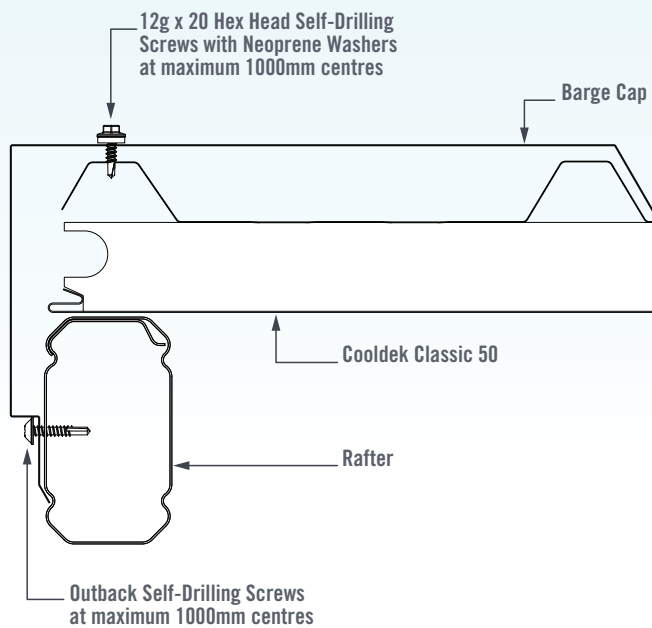


FIGURE 12.25

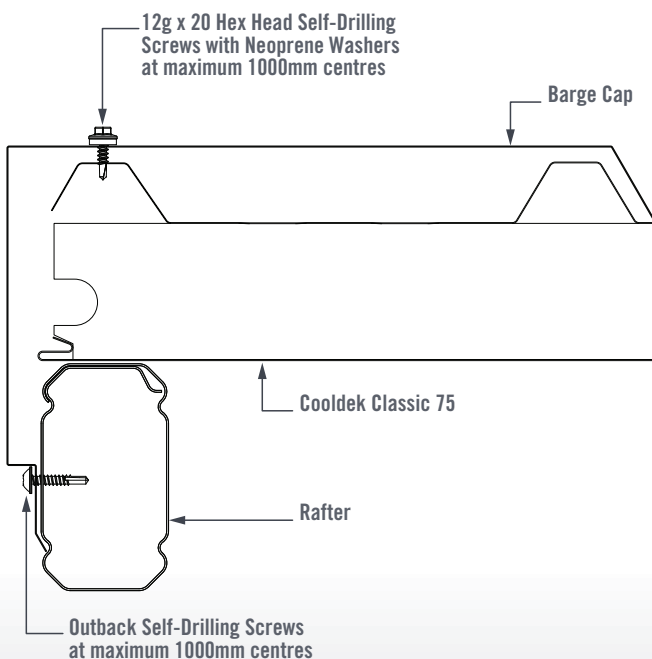


FIGURE 12.26

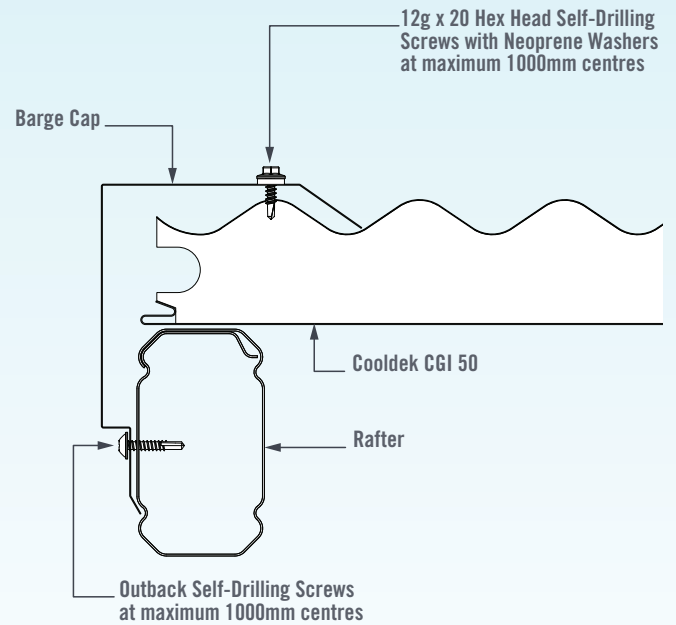


FIGURE 12.27

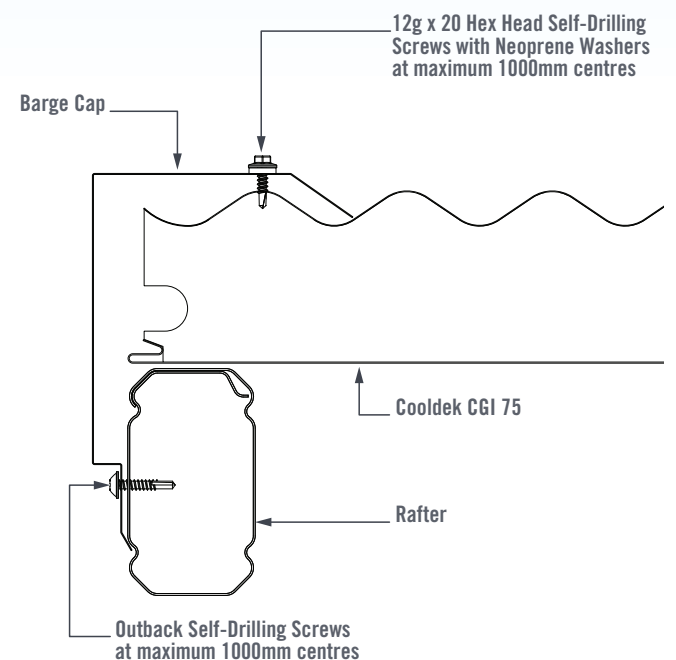


FIGURE 12.28

SKIP FORWARD FOR;

Split Width Gable Flashing Installation - Page 14.22

Equal Return Gable Flashing Installation - Page 15.26

13. RIDGE BULKHEAD INSTALLATION

RIDGE BULKHEAD INSTALLATION

Ridge Bulkhead Flashings are supplied at the correct length and are designed to fit between Rafter sets.

DOWNLIGHT PREPARATION

While the Ridge Bulkhead is on the ground measure and mark the locations for the downlights along the centre face of the Ridge Bulkhead Flashing (Figure 13.0).

Cut out a Ø98mm hole in each downlight location ensuring that the holes are centred along the length of the Ridge Bulkhead Flashing.

Check that the hole is the correct size by installing the Downlight. Pull back the spring retaining clips on the downlight and place the downlight fixture in the hole, ensuring that the spring clips are firmly against the inside face of the Bulkhead (Figure 13.1).

Remove the Downlight before installing the Ridge Bulkhead Flashing.

Refer to the Stratco Patio Lighting Install Guide for further installation detail.

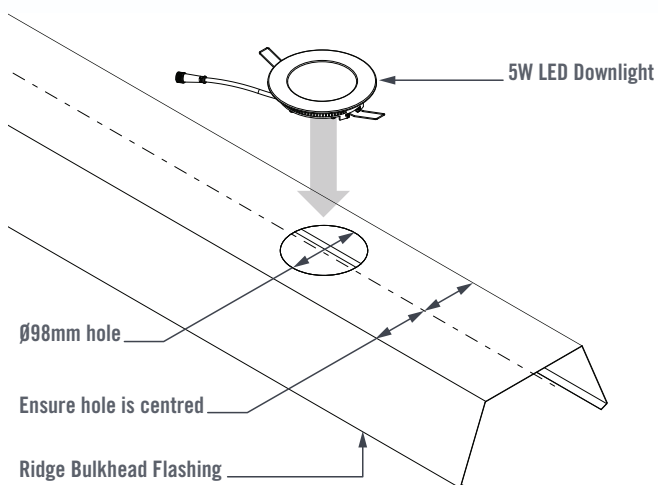


FIGURE 13.0

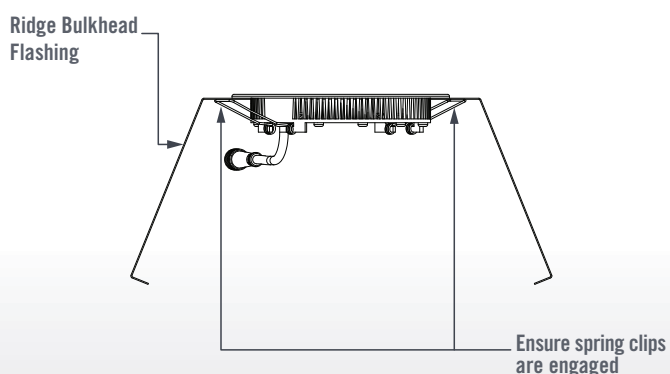


FIGURE 13.1

FAN PREPARATION

Measure and mark the location of the ceiling fan on the bottom face of the Ridge Beam (Figure 13.2).

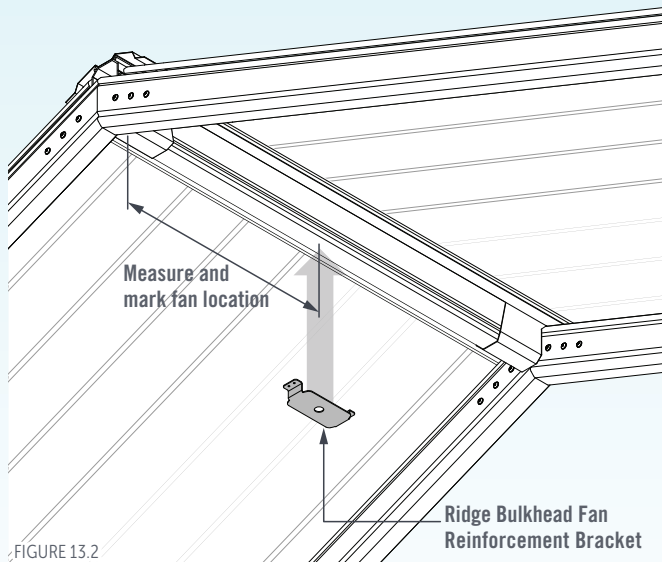


FIGURE 13.2

Position the Fan Mounting Bracket on the Ridge Beam and fix using 2x Outback Self-Drilling Screws either side of the bracket (Figures 13.3 & 13.4).

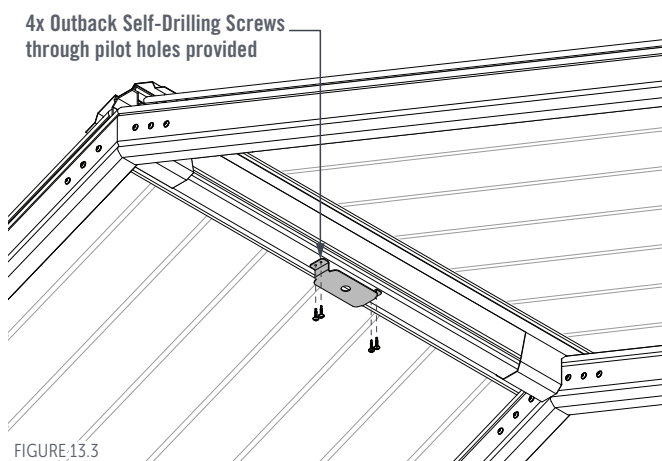


FIGURE 13.3

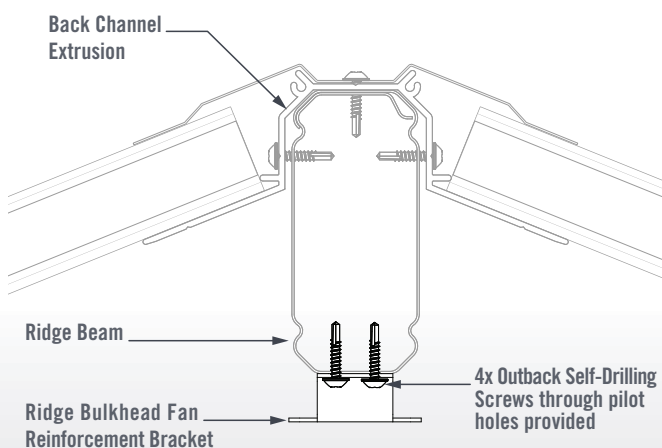


FIGURE 13.4

Measure and mark the location of the Fan Mounting Bracket on the Ridge Bulkhead Flashing (Figure 13.5).

Refer to the Stratco Ceiling Fan Installation Guide for specific Ceiling Fan installation details including a template for drilling mounting holes.

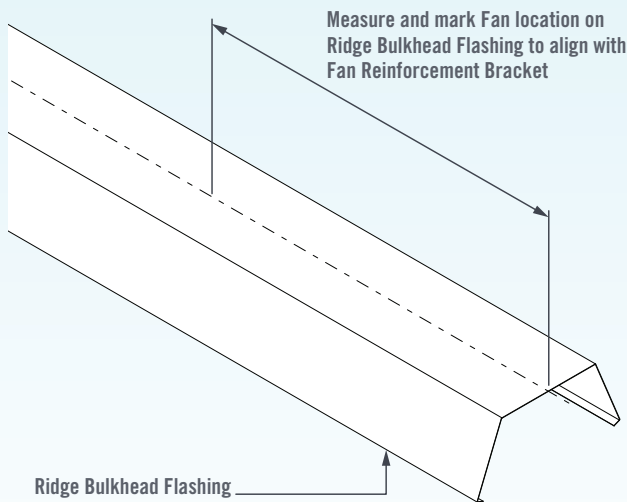


FIGURE 13.5

RIDGE BULKHEAD SUPPORT BRACKET INSTALLATION

Position the Ridge Bulkhead Support Brackets a maximum 250mm from the Rafter. Slide Ridge Bulkhead Support Brackets between the Ridge Beam and the Ridge Extrusion until it is hard against the underside of the downward facing leg of the Ridge Extrusion (Figures 13.6 & 13.8).

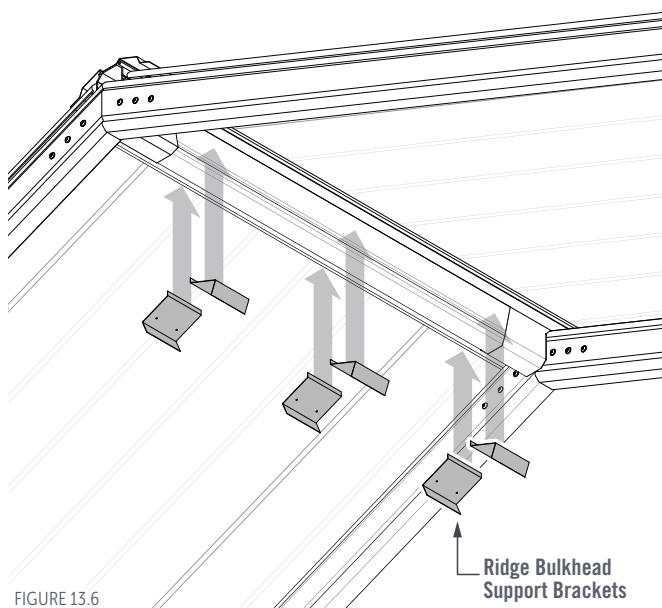


FIGURE 13.6

Repeat this step at each end, and on both sides of the Ridge Beam, with a maximum bracket spacing of 1000mm (Figure 13.7).

Fix the Ridge Bulkhead Support Bracket to the Ridge Extrusion using Ø3.2mm sealed rivets through the pilot holes provided (Figure 13.8 & 13.9).

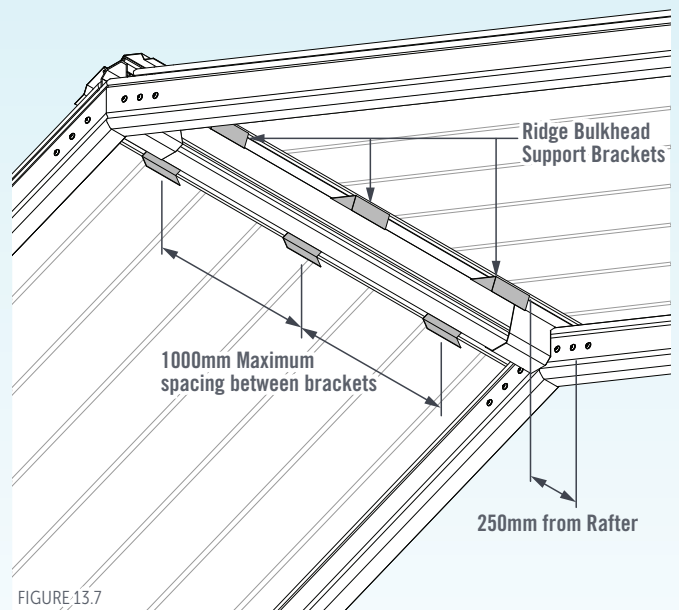


FIGURE 13.7

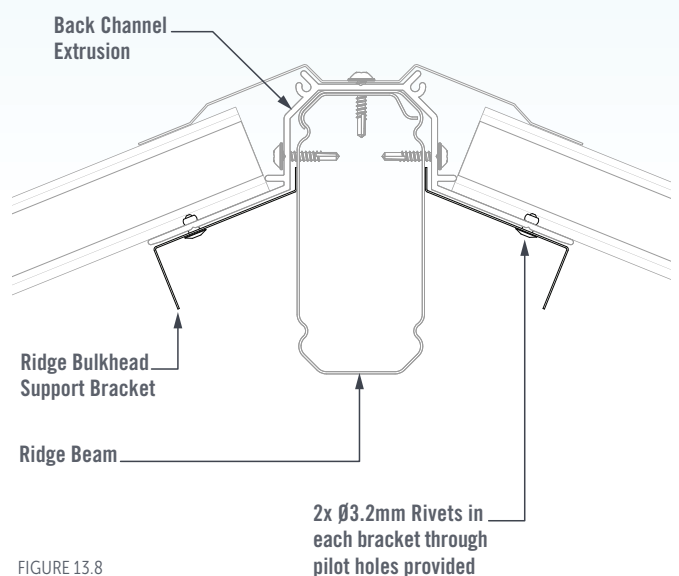


FIGURE 13.8

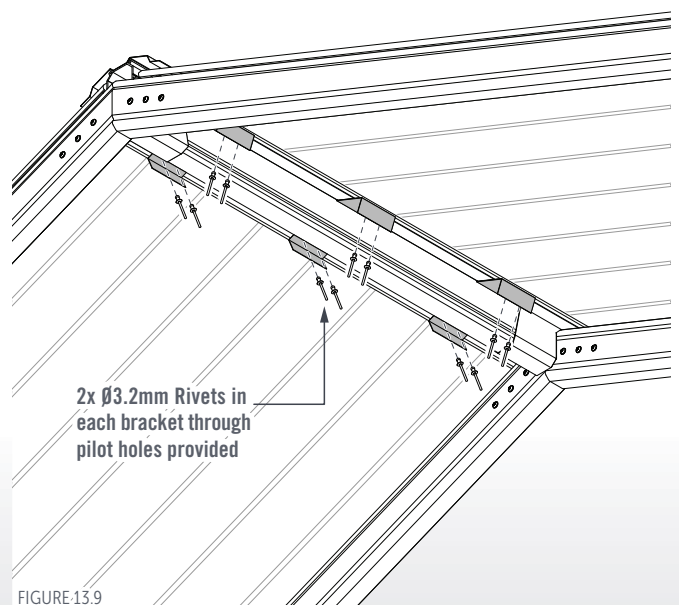
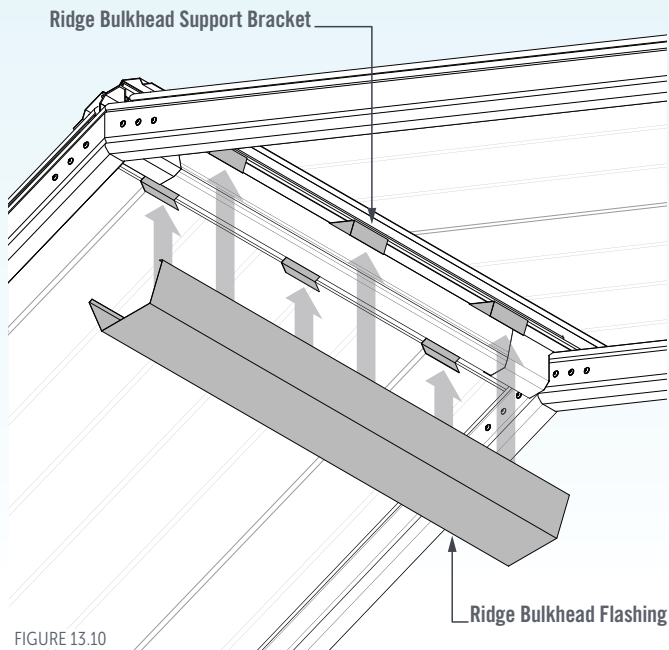


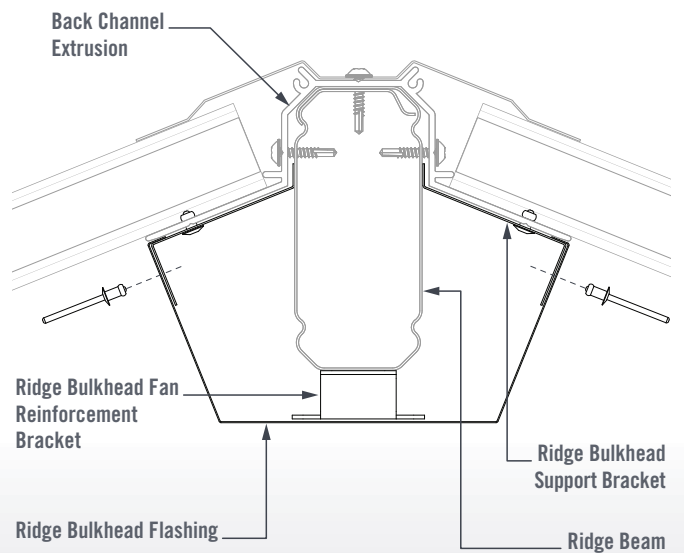
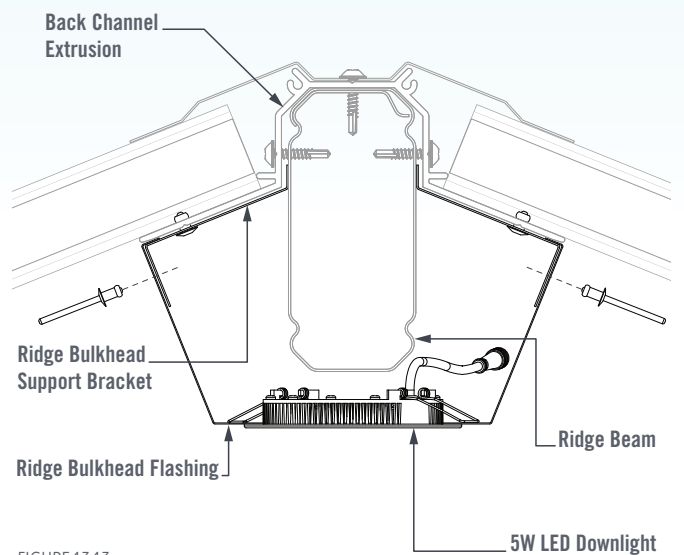
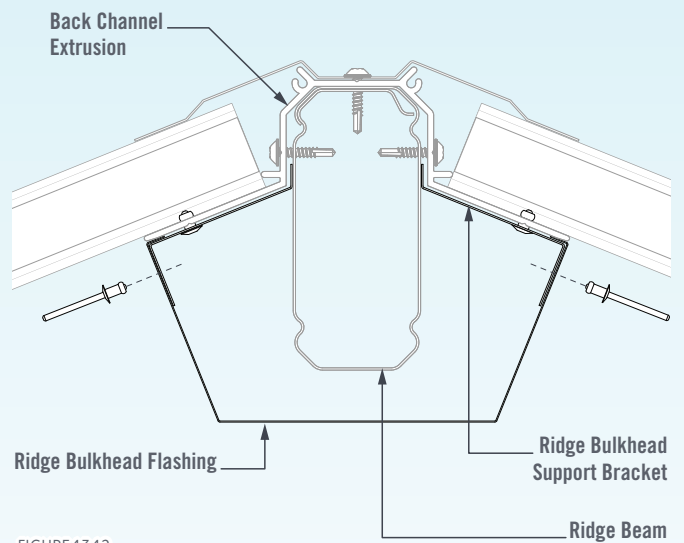
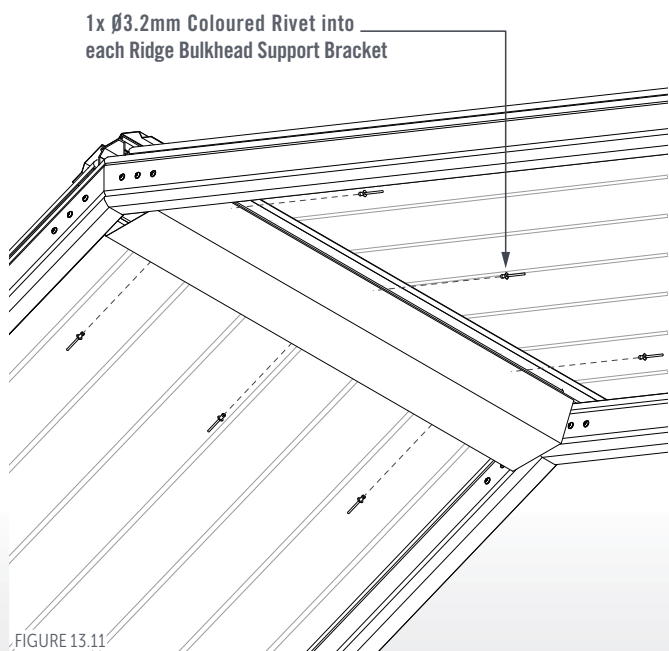
FIGURE 13.9

RIDGE BULKHEAD FLASHING INSTALLATION

Lift the Ridge Bulkhead Flashing into position over the Ridge Bulkhead Support Brackets and push the lip of the flashing between the support brackets and the Ridge Extrusion (Figure 13.10).



Ensure the Ridge Bulkhead Flashing is hard against the Ridge Bulkhead Support Brackets then fix in-place using a Ø3.2mm coloured rivet at each bracket location (Figures 13.11 to 13.14).



RIDGE BULKHEAD END-CAP INSTALLATION

Position the End-Caps over the Ridge Bulkhead Flashing and ensure they are hard against the Rafters.

Fix the End-Caps to the Ridge Bulkhead Flashing using 4x Ø3.2 coloured rivets (Figure 13.15).

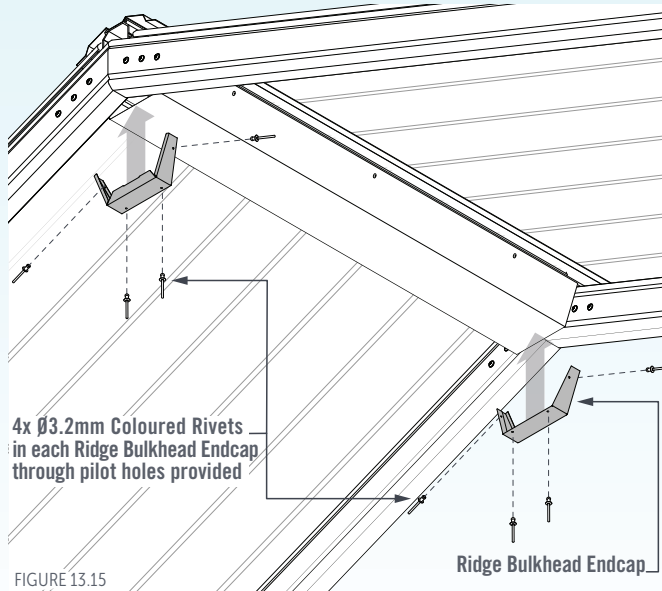


FIGURE 13.15

SKIP FORWARD FOR;

Equal Return Gable Bulkhead Installation - Page 15.27

GABLE RAFTER FAN BRACKET INSTALLATION

Determine which rafter the fan power cable will run inside.

Position the Gable Rafter Fan Bracket at the apex on the underside of the Rafter Set and mark out the Ø20mm hole location for cable routing (Figures 13.16 & 13.17).

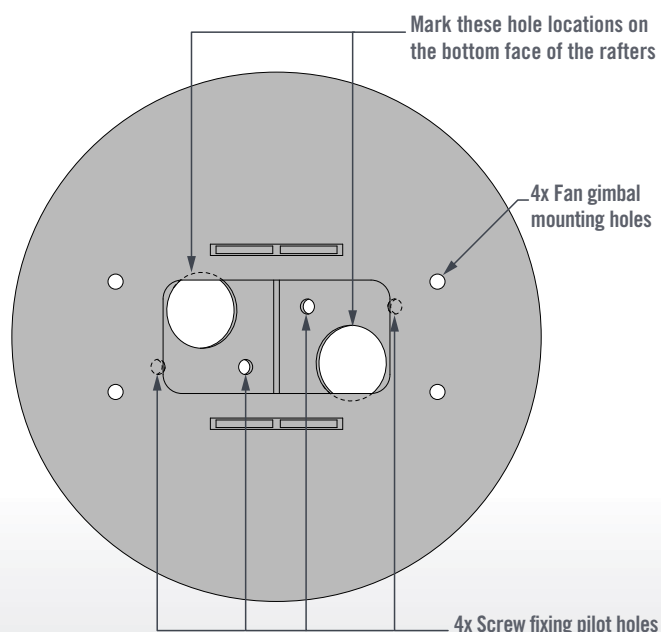


FIGURE 13.16

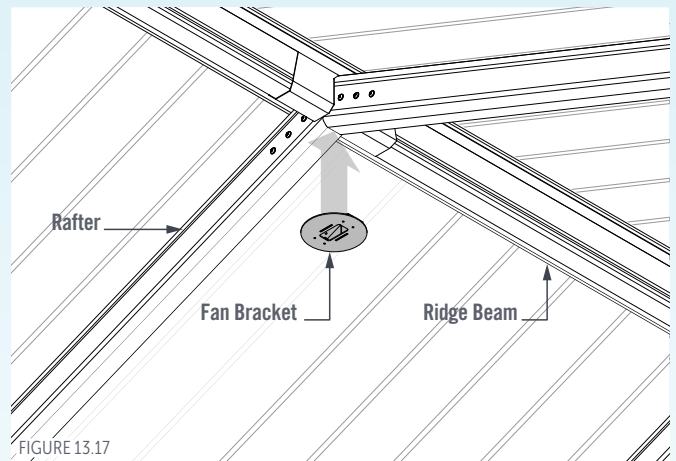


FIGURE 13.17

Reposition the Gable Rafter Fan Bracket so that the Ø20mm hole aligns with the hole in the Rafter.

Fix the Gable Rafter Fan Bracket to the underside of the Rafter Set using 4x Outback Self-Drilling Screws through the pilot holes provided (Figure 13.18).

Note: Ridge Bulkheads do not affect the Gable Rafter Fan Bracket installation (Figure 13.18).

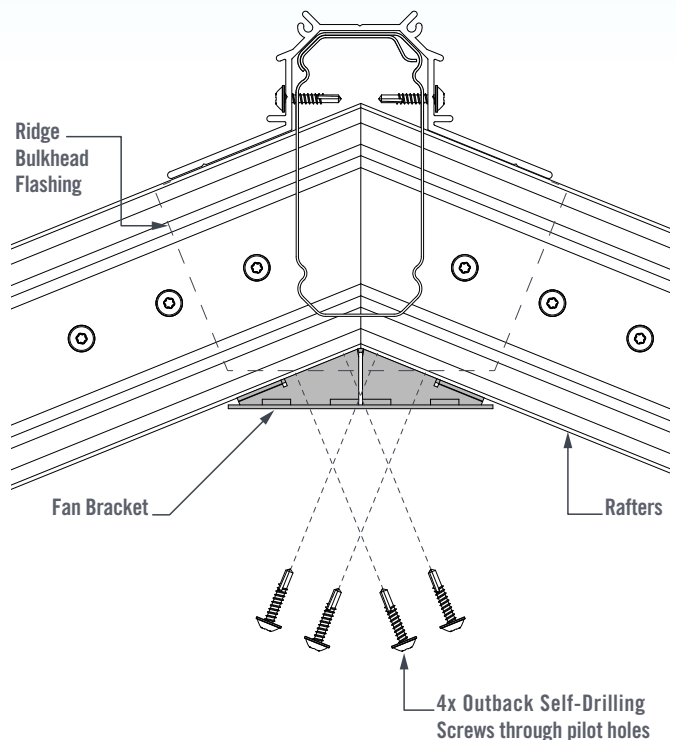


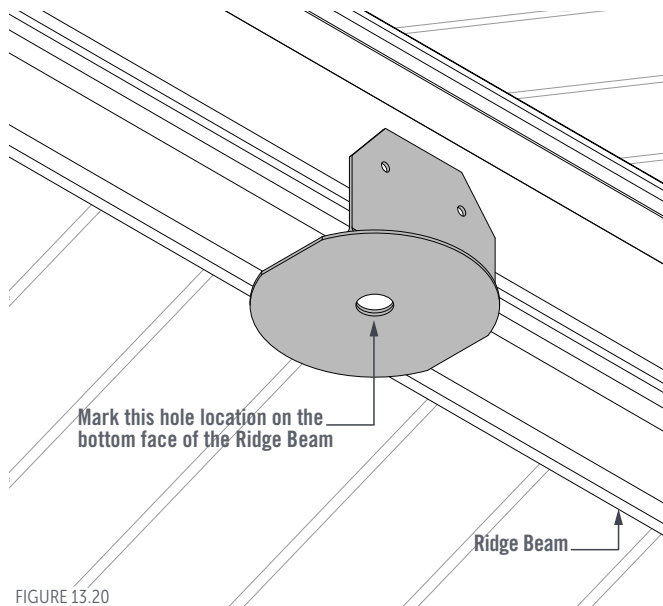
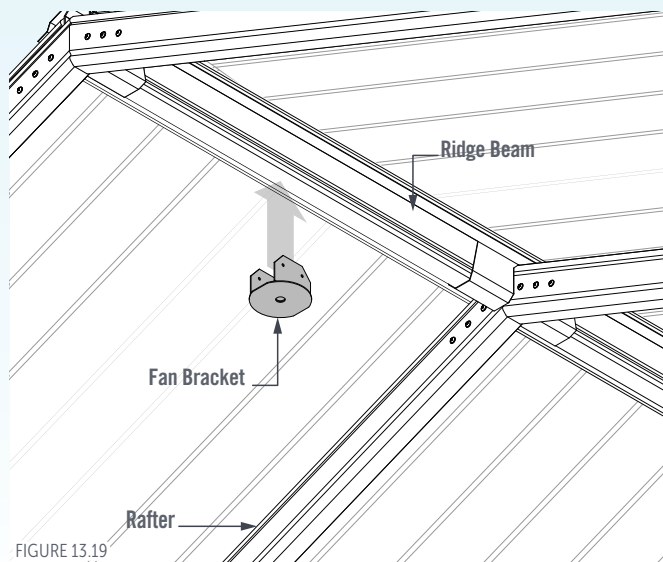
FIGURE 13.18

IMPORTANT NOTE:

Refer to the fan manufacturers instructions for mounting the fan to the Gable Rafter Fan Bracket.

RIDGE BEAM OUTBACK FAN BRACKET INSTALLATION

Measure and mark the location of the the Outback Fan Bracket along the underside of the Ride Beam (Figure 13.19). Position the Outback Fan Bracket on the Ridge Beam and mark out the Ø20mm hole location for cable routing (Figures 13.19 & 13.20).

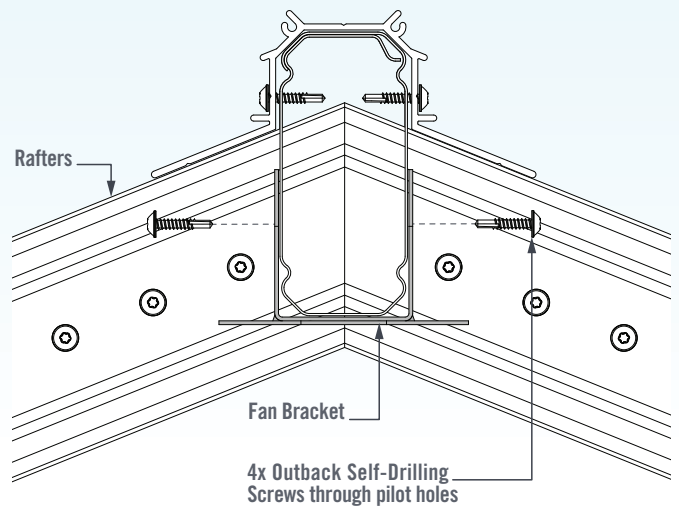


Drill a Ø20mm hole in the bottom of the rafter to feed cables for the fan.

Remove any sharp edges around the hole using a file to avoid any damage to cables.

Reposition the Outback Fan Bracket so that the Ø20mm hole aligns with the hole in the Ridge Beam.

Fix the Outback Bracket to the sides of the Ridge Beam using 4x Outback Self-Drilling Screws through the pilot holes provided (Figure 13.21).



Refer to the fan manufacturers instructions for mounting the fan to the Outback Fan Bracket.

14. SPLIT WIDTH GABLE UNITS

**FULL WIDTH INTERNAL HEADER (SHORT)
(SMALL BEAM CAP)**

BEAM INSTALLATION

The Full Width Internal Header Beam is fixed to the Major Side Beam and Continuous Side Beam (Figures 14.1 to 14.3) using Internal Beam-to-Beam Brackets (Figure 14.4 or 14.5). To install the Major Rafter the Full Width Internal Header Beam requires a Rafter to Short Header Bracket (Figures 14.2 & 14.3) at each end (Refer to Figures 5.12 to 5.23).

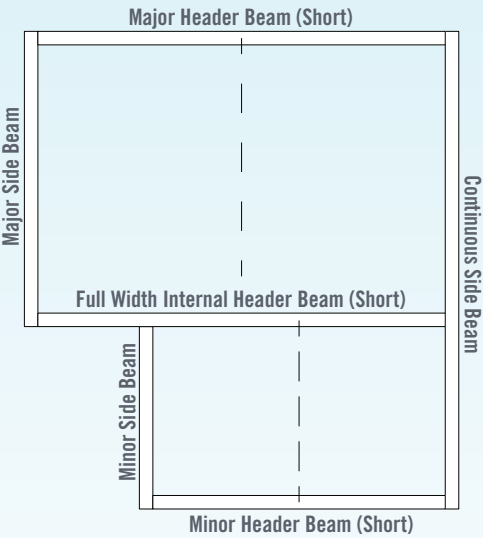


FIGURE 14.1

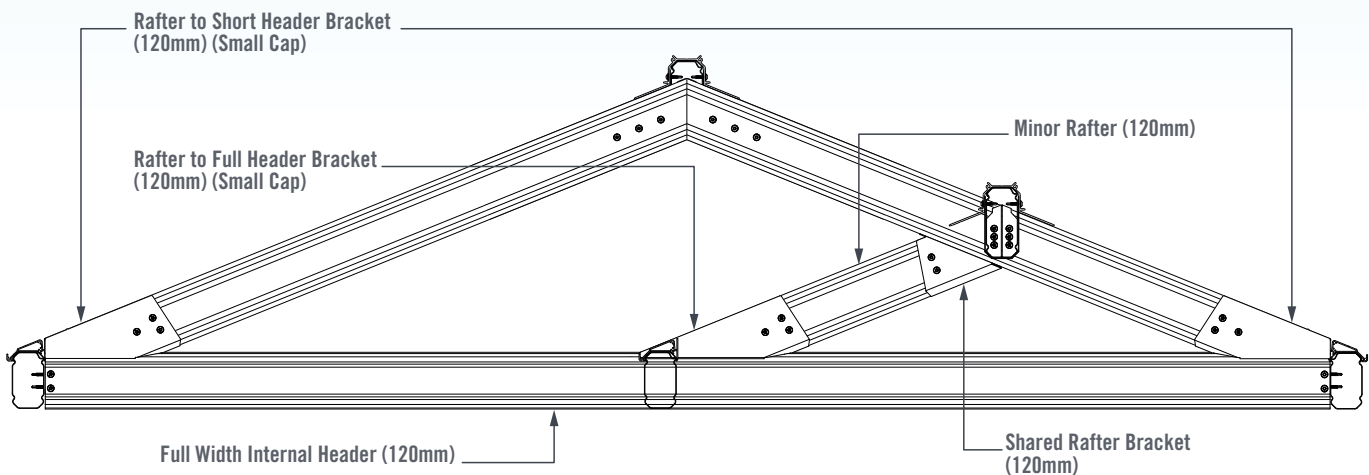


FIGURE 14.2

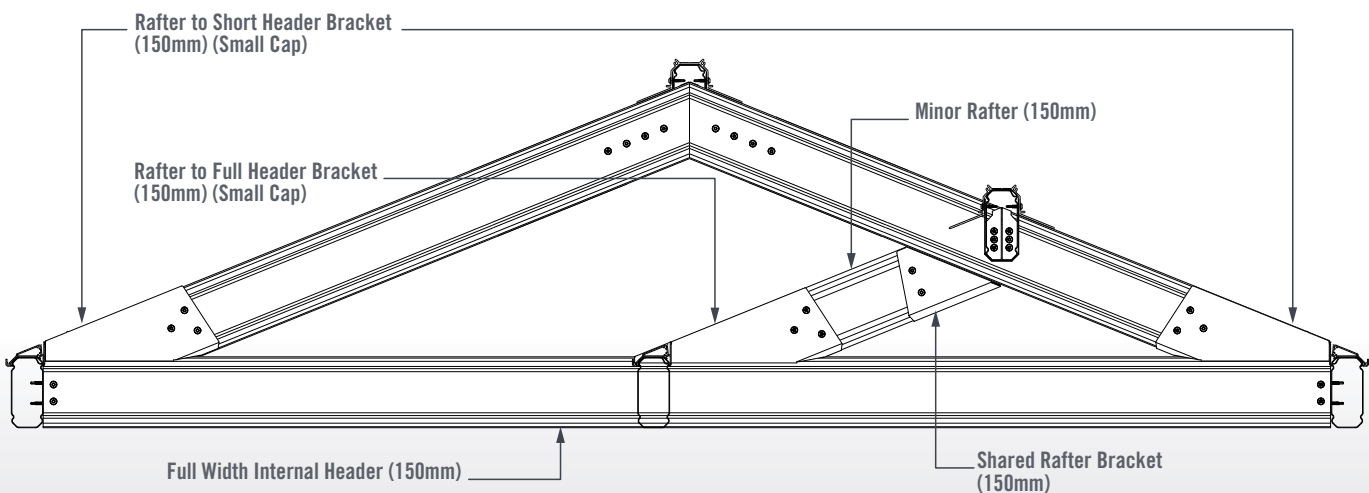


FIGURE 14.3

MINOR SIDE BEAM PREPARATION

Measure and mark the location of the Minor Side Beam. Install a Beam-to-Beam Bracket and then the Minor Side Beam (Figures 14.4 & 14.5).

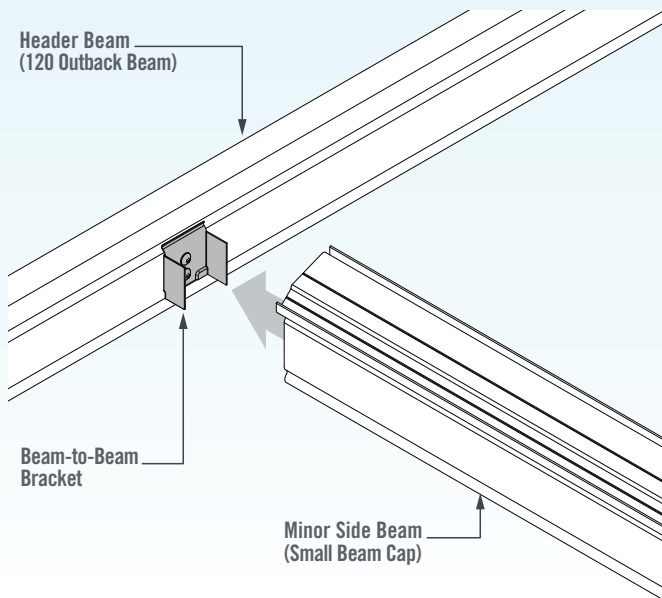


FIGURE 14.4

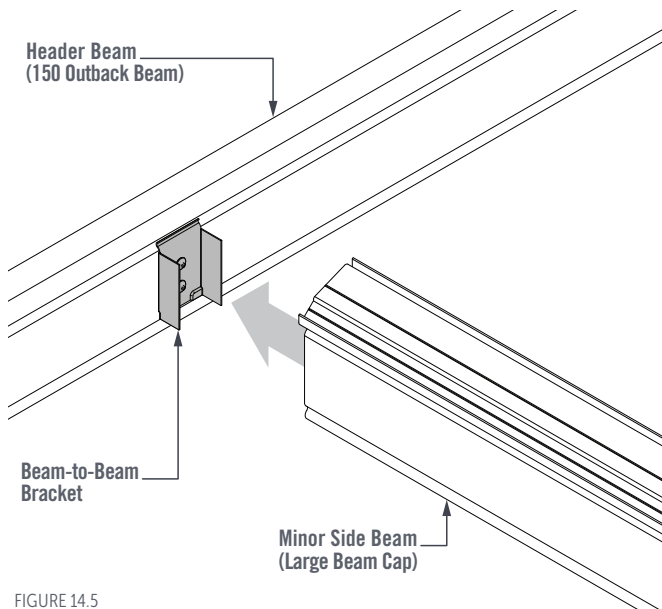


FIGURE 14.5

RAFTER BRACKETS

Position the Rafter-to-Header Bracket so that the angled top edge of the bracket is flush with the top of the Small Beam Cap (Figures 14.6 & 14.7).

Fix the Rafter-to-Header Bracket to the Full Width Internal Header using 6x Outback Self Drilling Screws through the pilot holes provided.

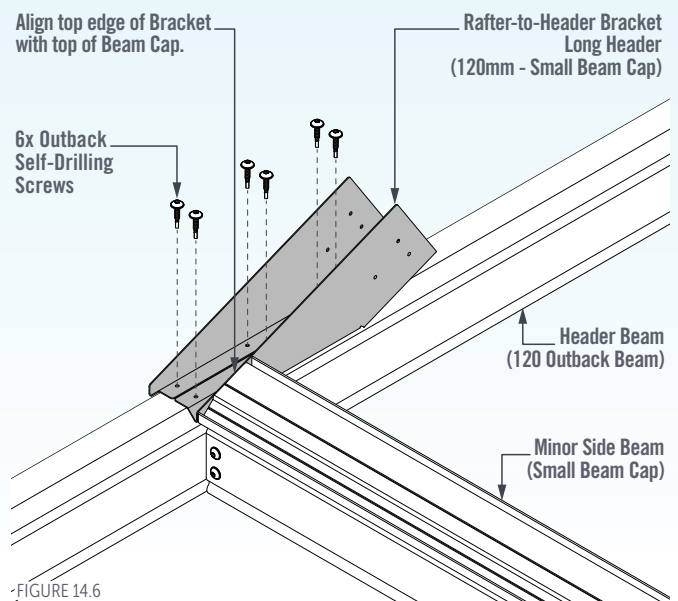


FIGURE 14.6

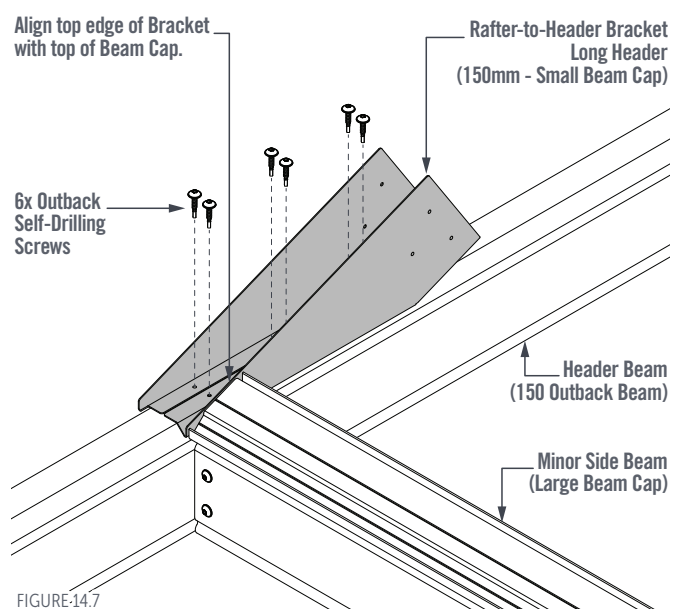


FIGURE 14.7

SKIP BACK TO;

Gable Rafter Set Assembly - Page 3.1

**FULL WIDTH INTERNAL HEADER (SHORT)
(LARGE BEAM CAP)**

BEAM INSTALLATION

The Full Width Internal Header Beam is fixed to the Major Side Beam and Continuous Side Beam (Figures 14.8 to 14.10) using Internal Beam-to-Beam Brackets (Figure 14.9 or 14.10).

To install the Major Rafter the Full Width Internal Header Beam requires a Rafter to Short Header Bracket (Figures 14.9 & 14.10) at each end (Refer to Figures 5.12 to 5.23).

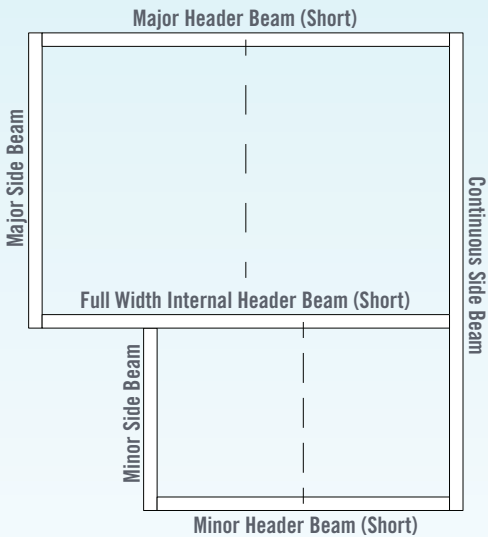


FIGURE 14.8

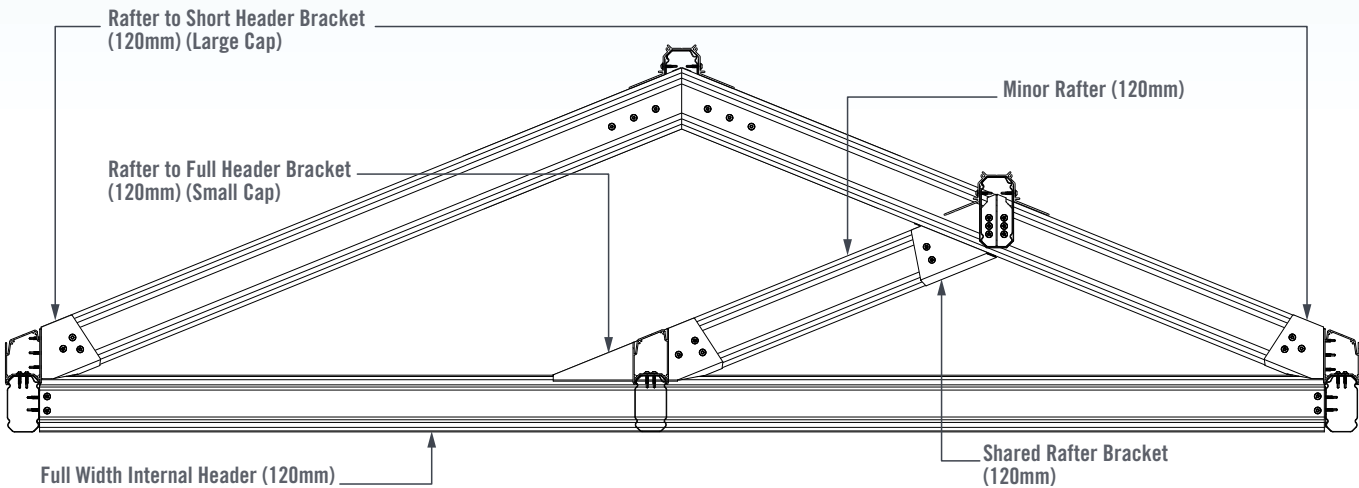


FIGURE 14.9

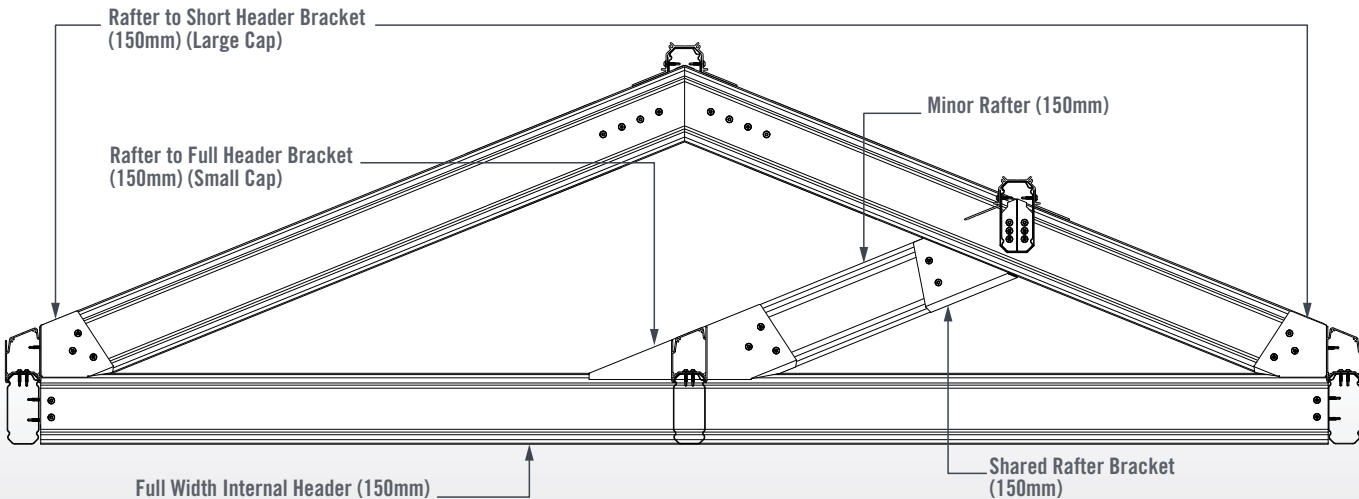


FIGURE 14.10

MINOR SIDE BEAM PREPARATION

Measure and mark the location of the Minor Side Beam. Install a Beam-to-Beam Bracket and then the Minor Side Beam (Figures 14.11 & 14.12).

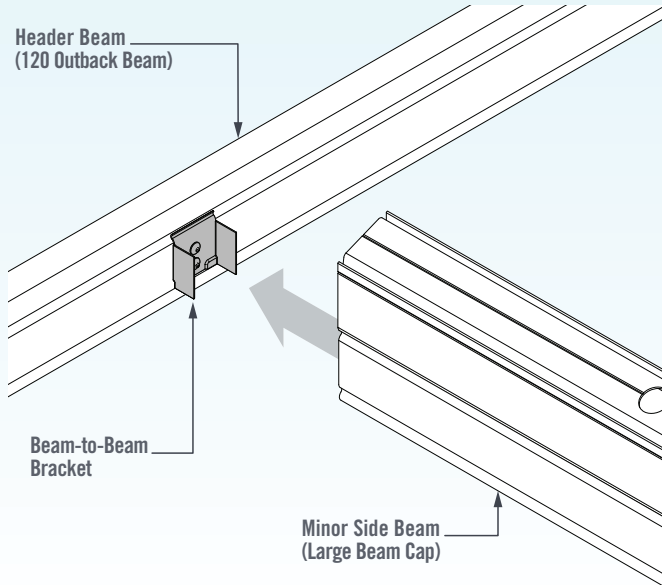


FIGURE 14.11

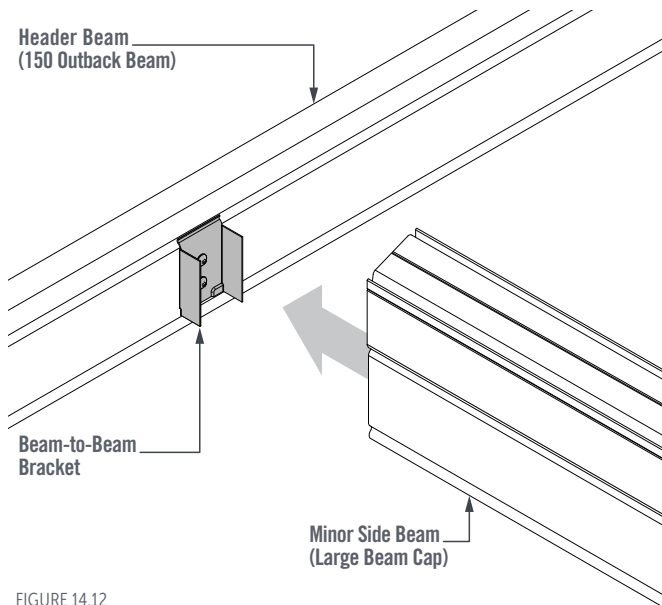


FIGURE 14.12

RAFTER BRACKETS

Position the Rafter-to-Header Bracket so that the angled top edge of the bracket is flush with the top of the Large Beam Cap (Figures 14.13 & 14.14).

Fix the Rafter-to-Header Bracket to the Full Width Internal Header using 6x Outback Self Drilling Screws through the pilot holes provided.

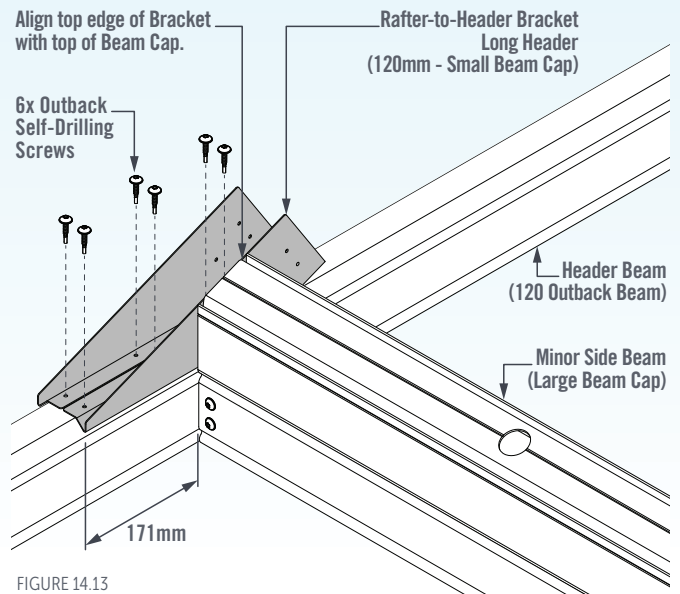


FIGURE 14.13

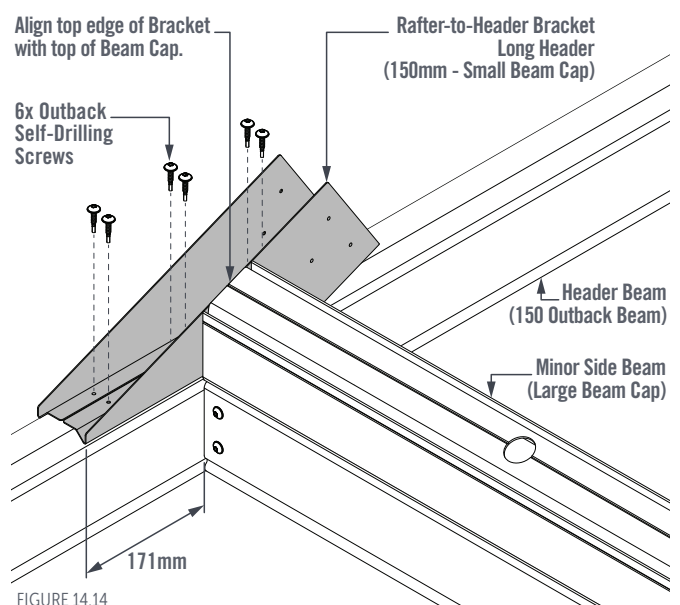


FIGURE 14.14

SKIP BACK TO;

Gable Rafter Set Assembly - Page 3.1

**PARTIAL HEADER
(SMALL BEAM CAP)**

BEAM INSTALLATION

The Partial Header Beam is fixed to the Major Side Beam using Internal Beam-to-Beam Brackets (Figures 14.20 & 14.21).

Installing the Major Rafter the Partial Header Beam requires a Rafter to Short Header Bracket at one end and a Rafter to Beam Bracket at the other end (Figures 14.16 & 14.17).

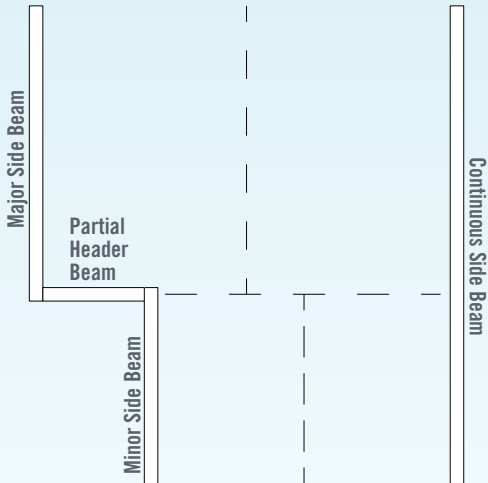


FIGURE 14.15

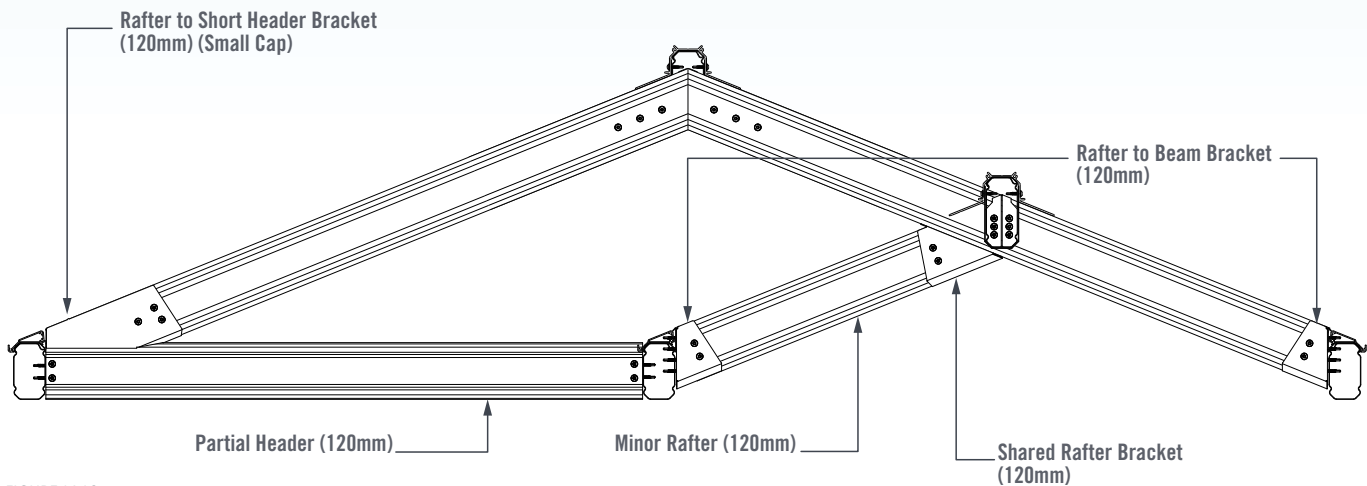


FIGURE 14.16

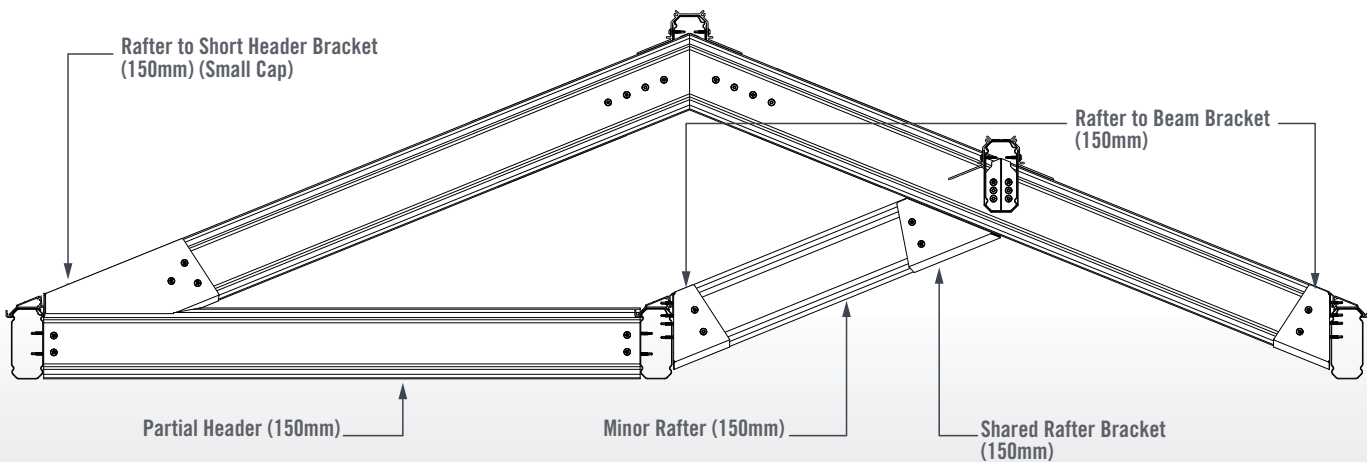


FIGURE 14.17

MINOR SIDE BEAM PREPARATION

Trim a 70mm wide section from the Small Beam Cap to avoid interference and allow flush fitment of the Partial Header Beam (Figure 14.18).

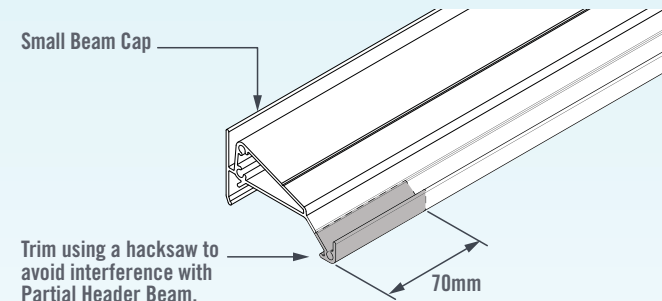


FIGURE 14.18

Position the Small Beam Cap on the Minor Side Beam so that the Small Beam Cap is flush with the end of the Beam (Figure 14.19).

Install the Beam-to-Beam Bracket where the Partial Header Beam attaches to the Minor Side Beam (Figures 14.19 to 14.23).

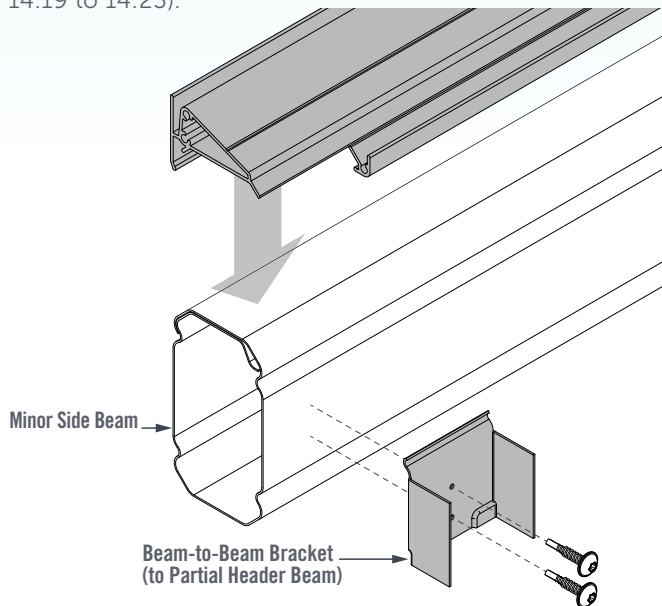


FIGURE 14.19

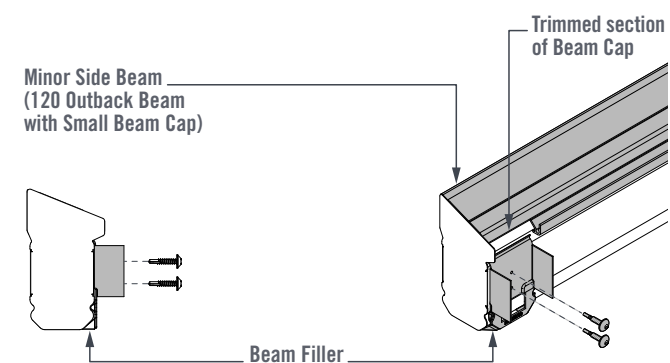


FIGURE 14.20

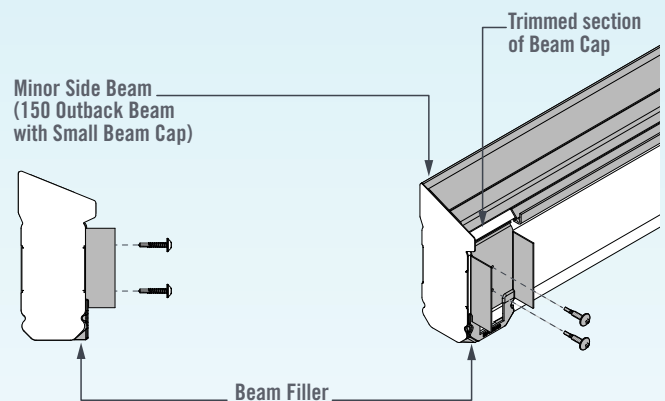


FIGURE 14.21

RAFTER BRACKETS

Position the Rafter-to-Beam Brackets by hanging them on the Beam Cap and fix to the Beam Cap and Beam with 8x Outback Self-Drilling Screws through the pilot holes provided (Figures 14.22 & 14.23).

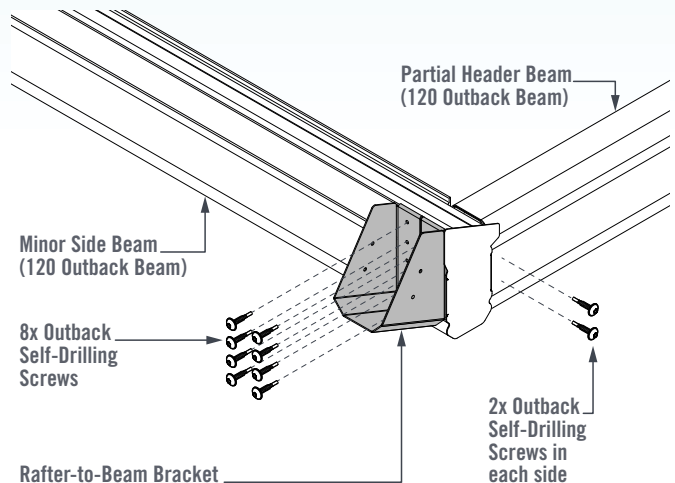


FIGURE 14.22

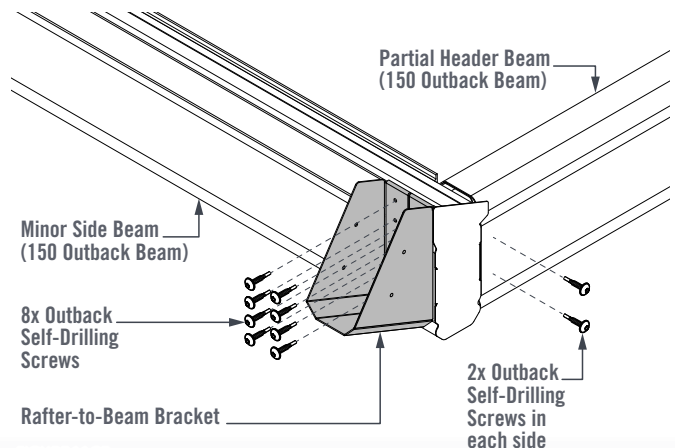


FIGURE 14.23

SKIP BACK TO;

Gable Rafter Set Assembly - Page 3.1

**PARTIAL HEADER
(LARGE BEAM CAP)**

BEAM INSTALLATION

The Partial Header Beam is fixed to the Major Side Beam using Internal Beam-to-Beam Brackets (Figures 14.27 & 14.28).

Installing the Major Rafter the Partial Header Beam requires a "Rafter to Short Header Bracket" at one end and a "Rafter to Beam Bracket" at the other end (Figures 14.25 & 14.26).

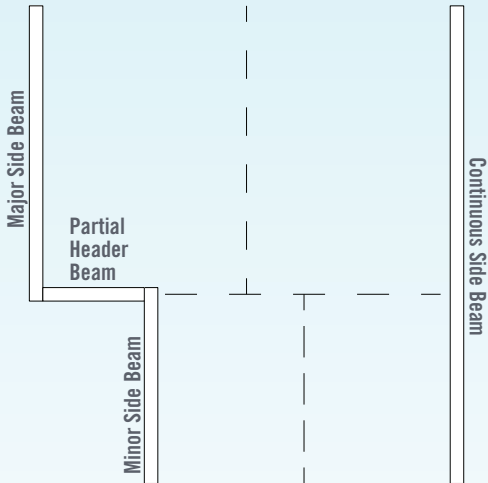


FIGURE 14.24

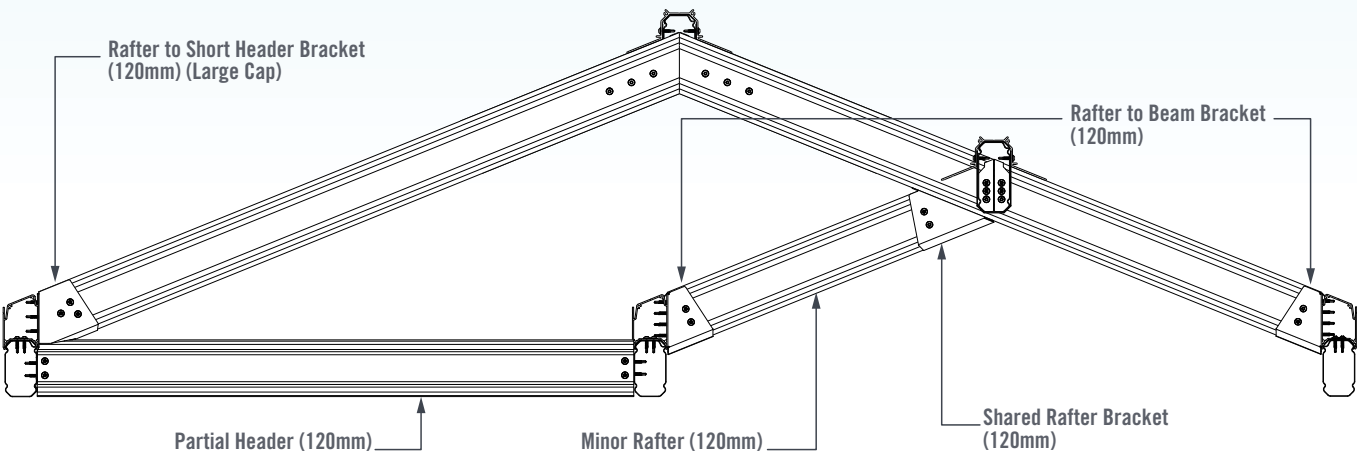


FIGURE 14.25

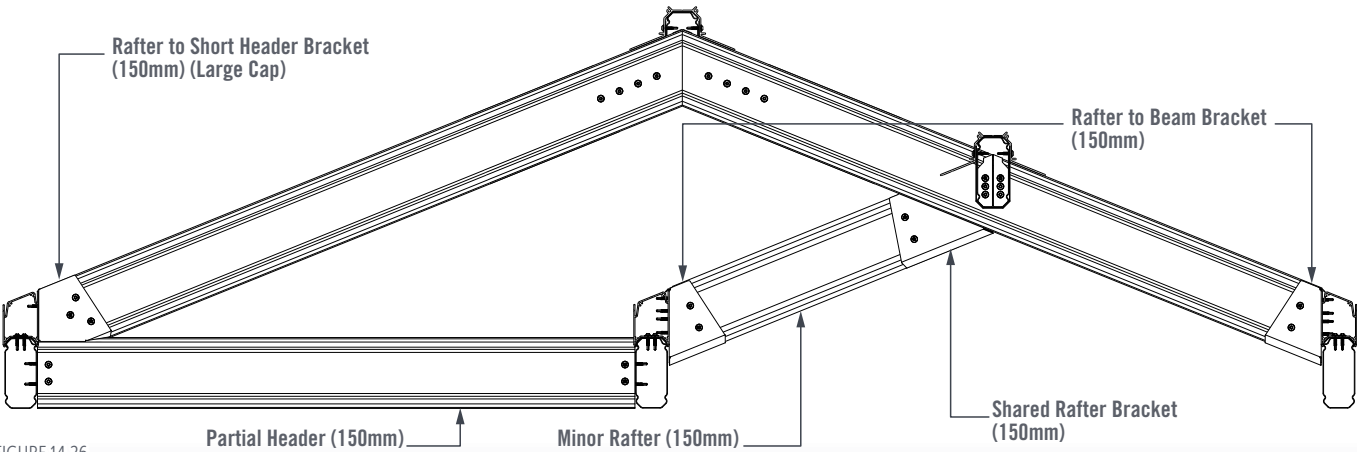


FIGURE 14.26

MINOR SIDE BEAM PREPARATION

Install the Beam-to-Beam Bracket where the Partial Header Beam attaches to the Minor Side Beam (Figures 14.27 & 14.28).

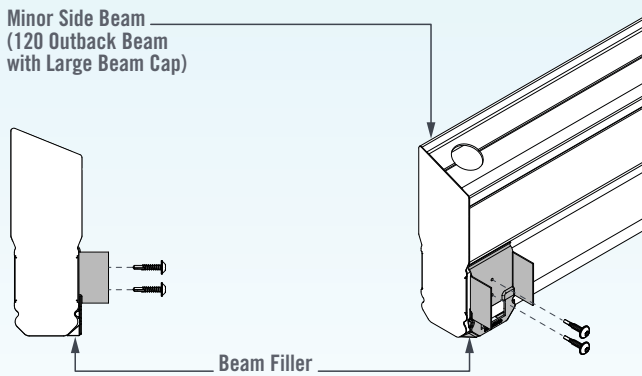


FIGURE 14.27

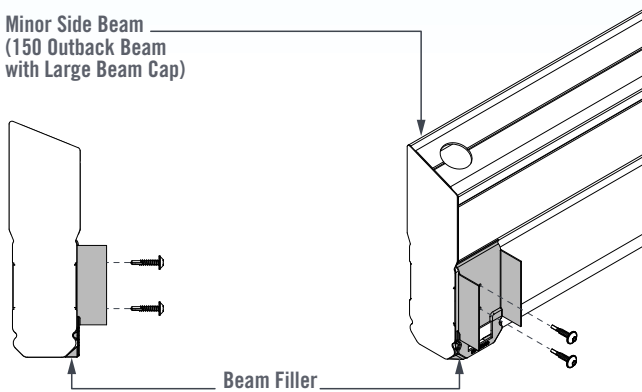


FIGURE 14.28

RAFTER BRACKETS

Position the Rafter-to-Beam Brackets by hanging them on the Beam Cap and fix to the Beam Cap and Beam with 8x Outback Self-Drilling Screws through the pilot holes provided (Figures 14.29 & 14.30).

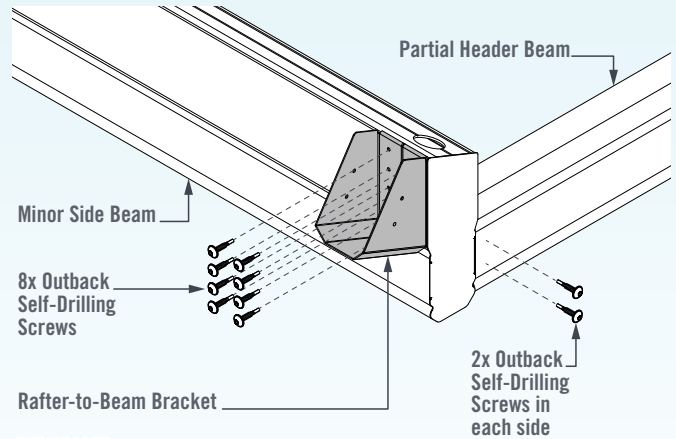


FIGURE 14.29

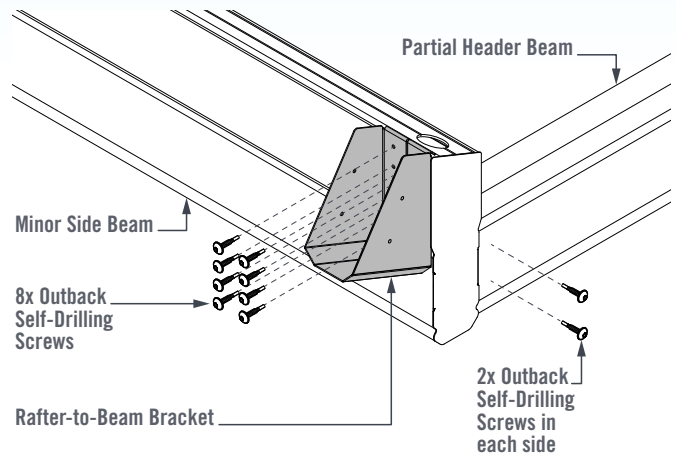


FIGURE 14.30

SKIP BACK TO;

Gable Rafter Set Assembly - Page 3.1

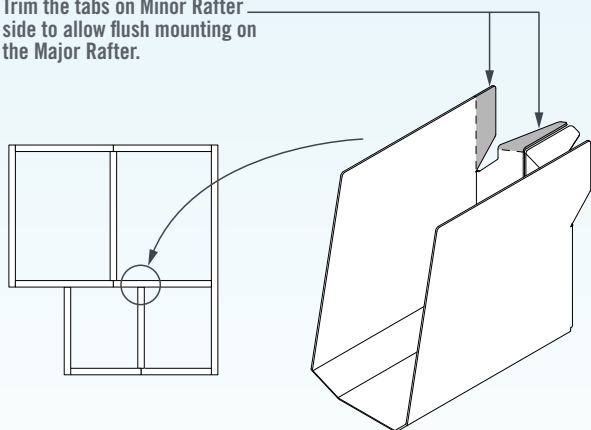
SHARED RAFTER INSTALLATION (MINOR RIDGE INSTALLATION)

Cut off or fold back the rear locating tab of the Ridge-to-Rafter Bracket on the Minor Rafter side (Figure 14.31).

NOTE:

Double-check which tabs need to be removed from the Ridge-to-Rafter Bracket, ensuring that it is the tabs on the Minor Side Beam/Minor Rafter side.

Trim the tabs on Minor Rafter side to allow flush mounting on the Major Rafter.



Note: This example is for a Split Width Gable unit with the Minor Gable section on the right hand side of the unit. Remove the opposite tabs for a left hand side Minor Gable.

FIGURE 14.31

Measure the length of the supplied Minor Gable Rafter to determine the location of the Shared Rafter Ridge-to-Rafter Bracket (Figure 14.32).

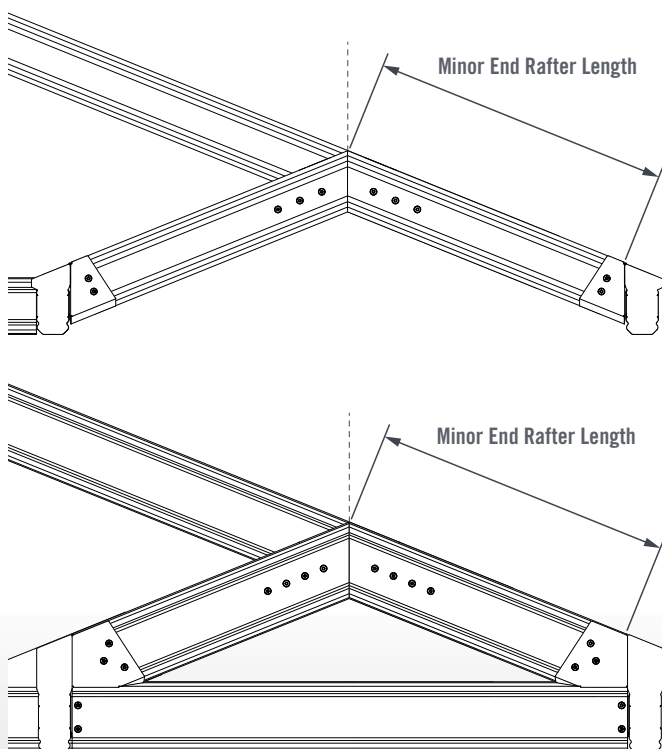


FIGURE 14.32

Measure and mark the location of the Ridge-to-Rafter Bracket (Figure 14.33).

Ensure the Ridge-to-Rafter Bracket is vertical. Fix the Ridge-to-Rafter Bracket to the Major Rafter using 6x Outback Self-Drilling Screws through the pilot holes provided (Figure 14.33).

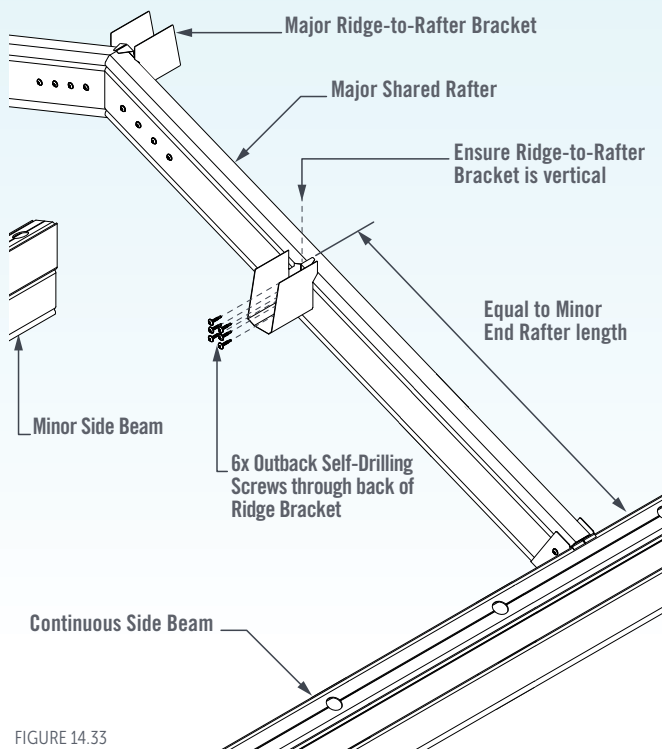


FIGURE 14.33

Place the Minor Ridge 150 Outback Beam in the Ridge-to-Rafter Brackets ensuring it is fully seated in the bottom of the Ridge-to-Rafter Brackets.

Place the Ridge Extrusion on top of the Minor Ridge Beam so that it butts up against the Major Rafter Set (Figure 14.34).

Fix the Ridge Extrusion to the Minor Ridge Beam as per Section 6 - Ridge Installation.

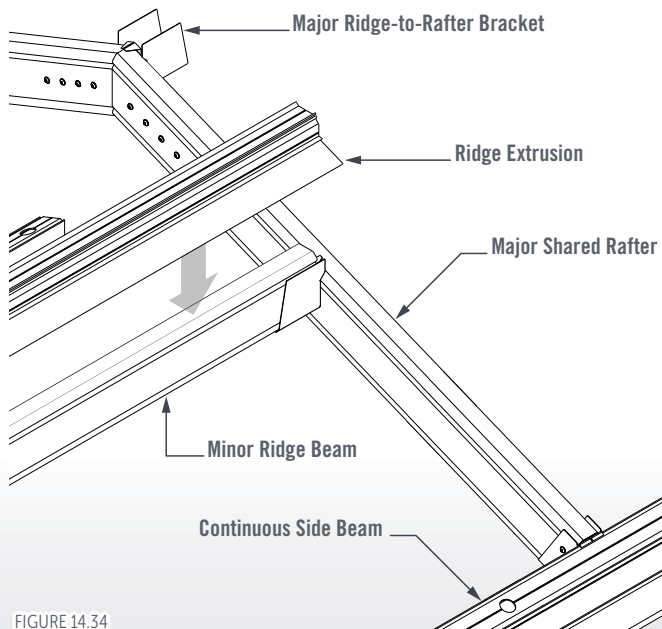


FIGURE 14.34

SHARED RAFTER BRACKET INSTALLATION

Measure and mark the location of the Shared Rafter Bracket by aligning to top edge of the Shared Rafter Bracket side with the bottom face of the Ridge Extrusion (Figures 14.35 & 14.36).

120 OUTBACK BEAM MINOR RAFTER BRACKET

Position the Washer Plate inside the Shared Rafter Bracket so the pilot holes are aligned.

Fix the Shared Rafter Bracket to the Major Rafter using 6x Outback Self-Drilling Screws through the pilot holes provided (Figure 14.35).

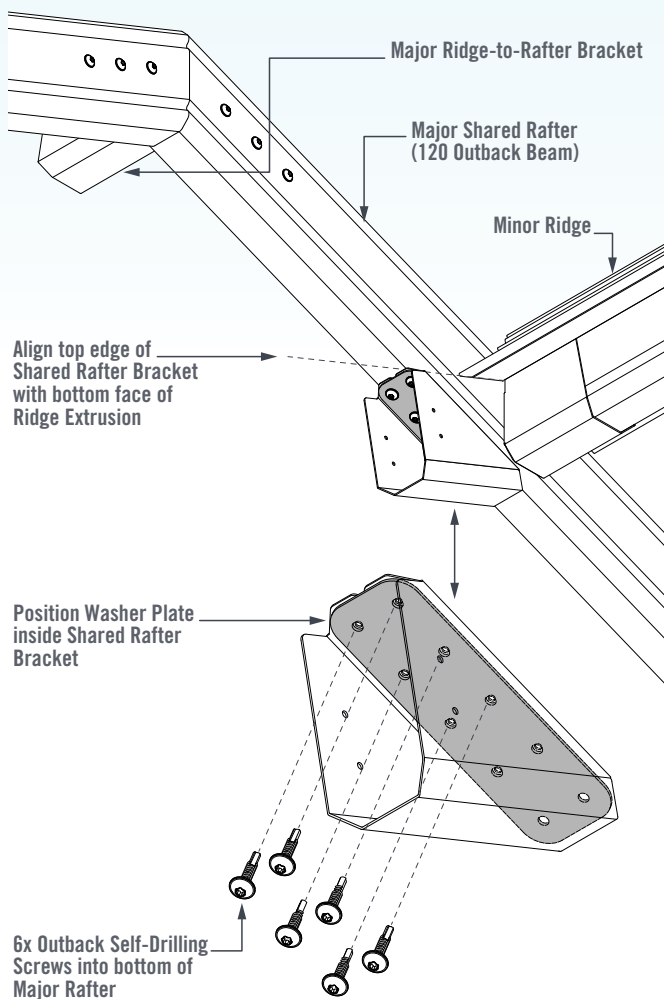


FIGURE 14.35

150 OUTBACK BEAM MINOR RAFTER BRACKET

Position the Washer Plate inside the Shared Rafter Bracket so the pilot holes are aligned, leaving the first two pilot holes uncovered.

Fix the Shared Rafter Bracket to the Major Rafter using 8x Outback Self-Drilling Screws through the pilot holes provided (Figure 14.36).

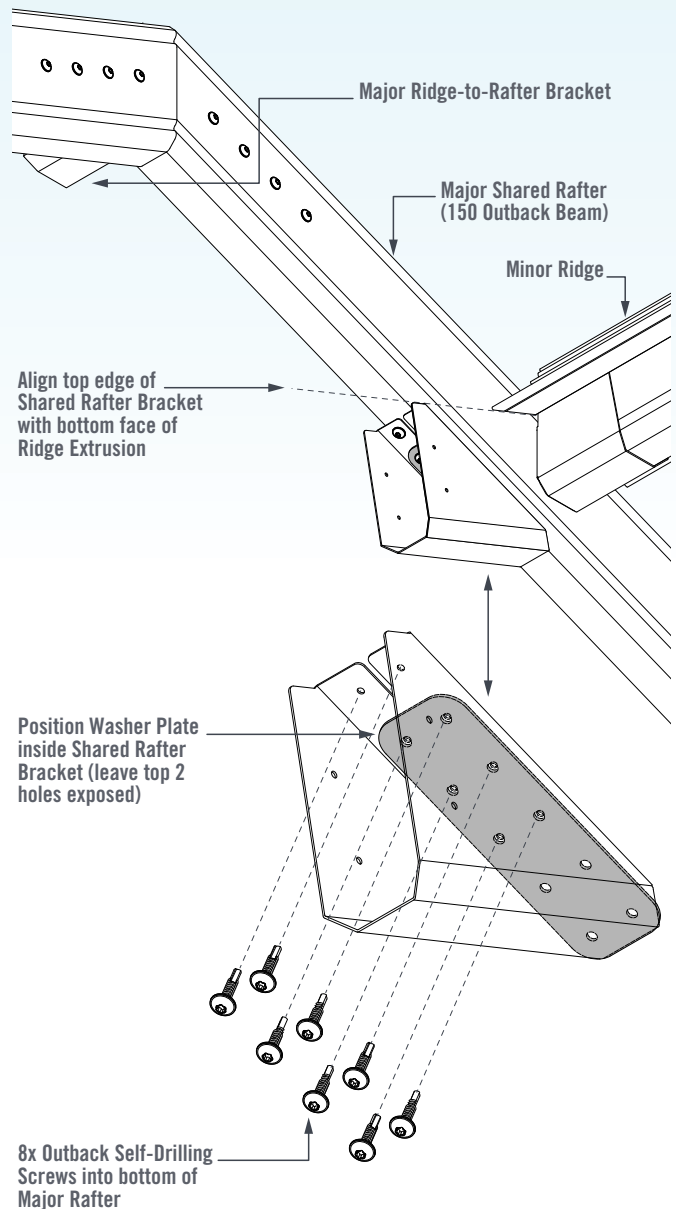


FIGURE 14.36

SKIP BACK TO;

Column Installation - Page 4.1

MINOR RAFTER INSTALLATION

(FULL WIDTH INTERNAL HEADER)

Place the Minor Rafter in the Shared Rafter Bracket and Rafter-to-Header Bracket.

Check that the unit is square (Figure 14.37).

Fix the Minor Rafter in-place using 3x Outback Self-Drilling Screws through the pilot holes in each side of the Rafter-to-Header Bracket (Figures 14.38 to 14.41).

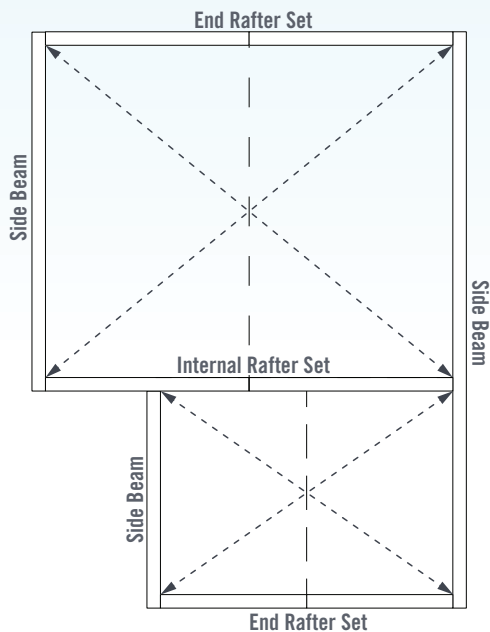


FIGURE 14.37

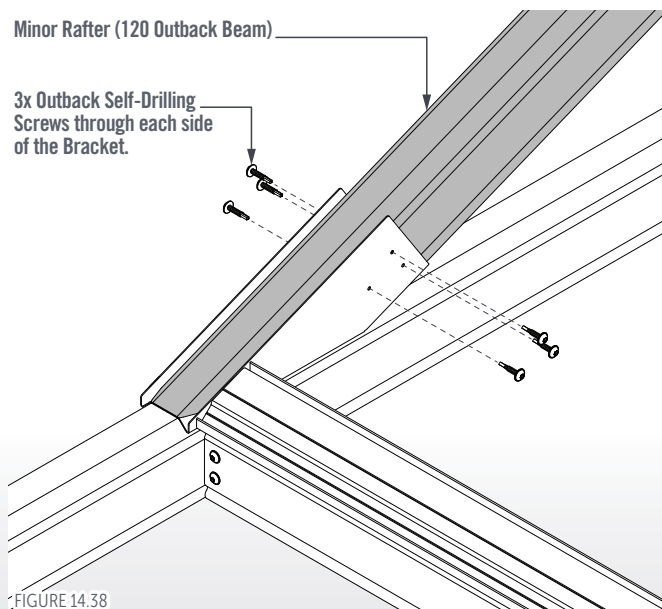


FIGURE 14.38

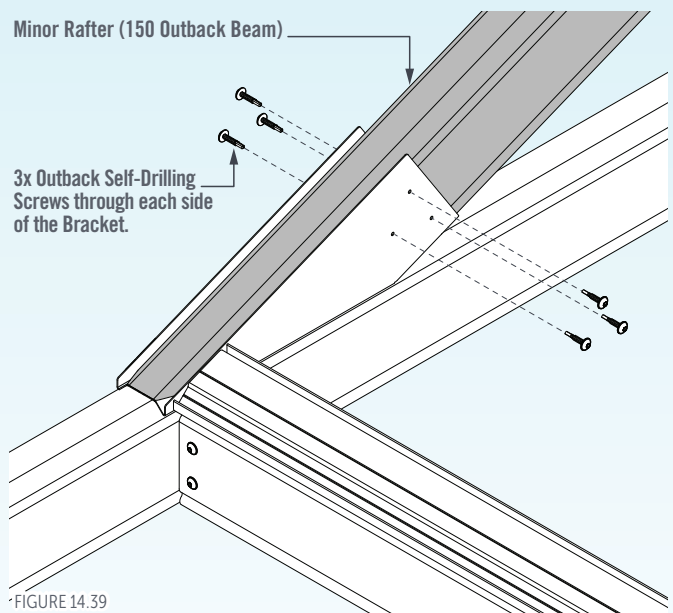


FIGURE 14.39

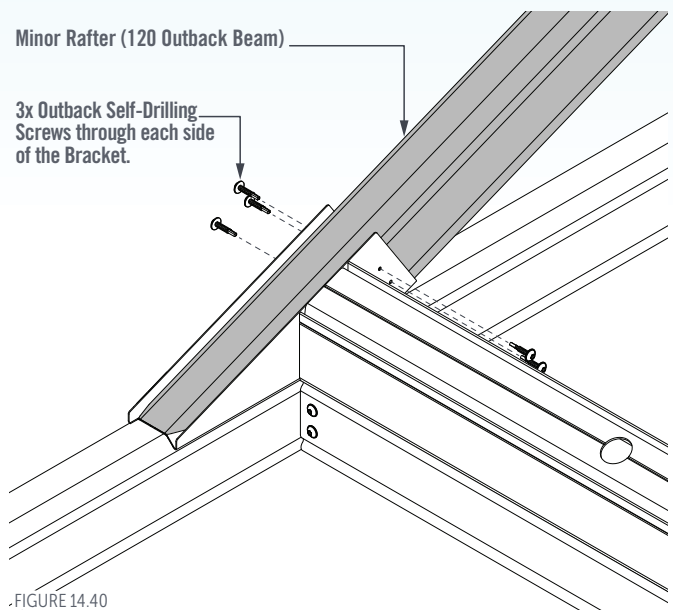


FIGURE 14.40

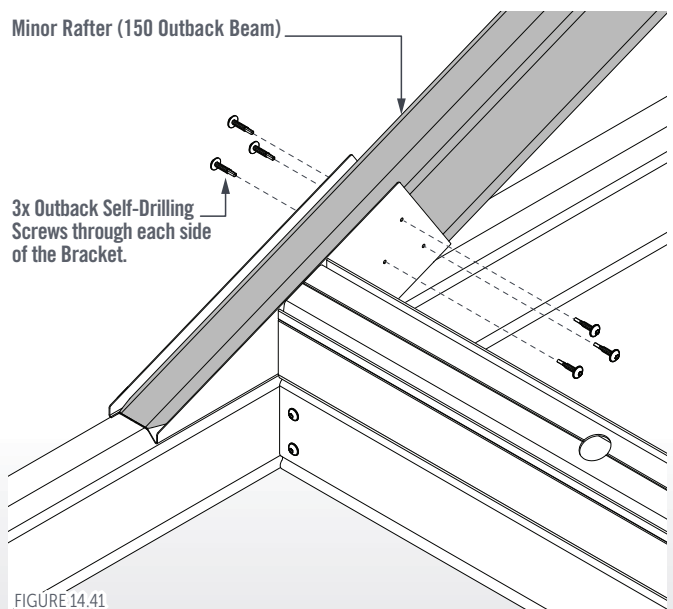


FIGURE 14.41

MINOR RAFTER INSTALLATION (PARTIAL HEADER)

Place the Minor Rafter in the Shared Rafter Bracket and Rafter-to-Beam Bracket ensuring the Minor Rafter is fully seated in the bottom of the Rafter Bracket.

Fix the Minor Rafter in place using 2x Outback Self-Drilling Screws through the pilot holes in each side of the Rafter-to-Beam Bracket (Figures 14.42 to 14.45).

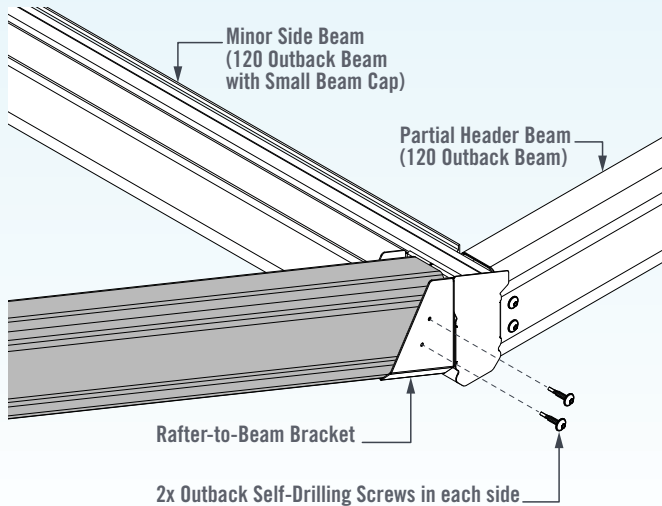


FIGURE 14.42

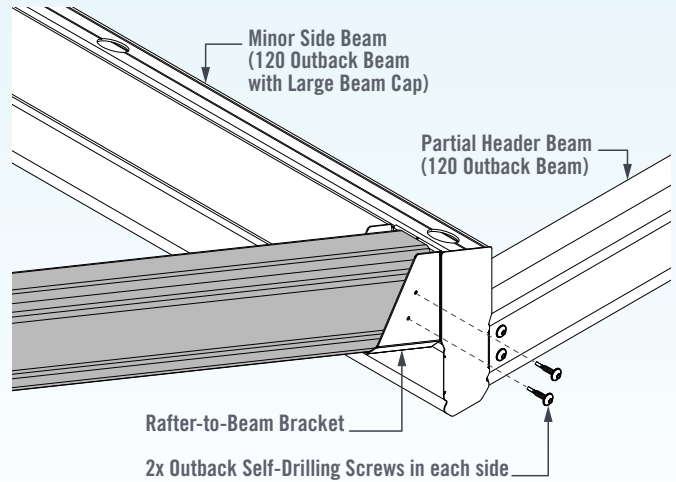


FIGURE 14.44

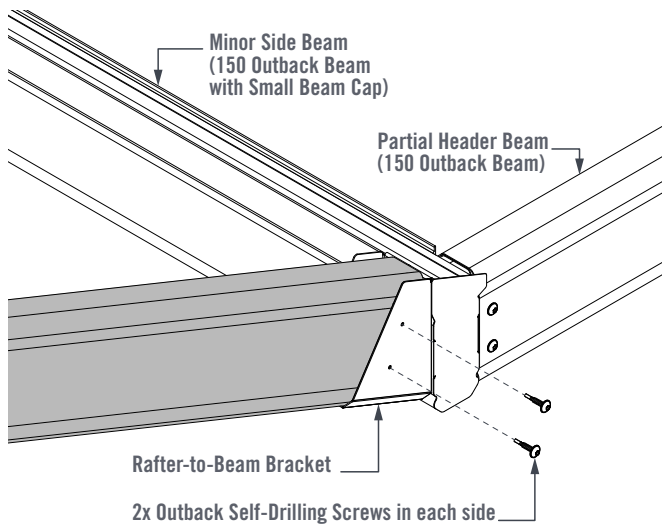


FIGURE 14.43

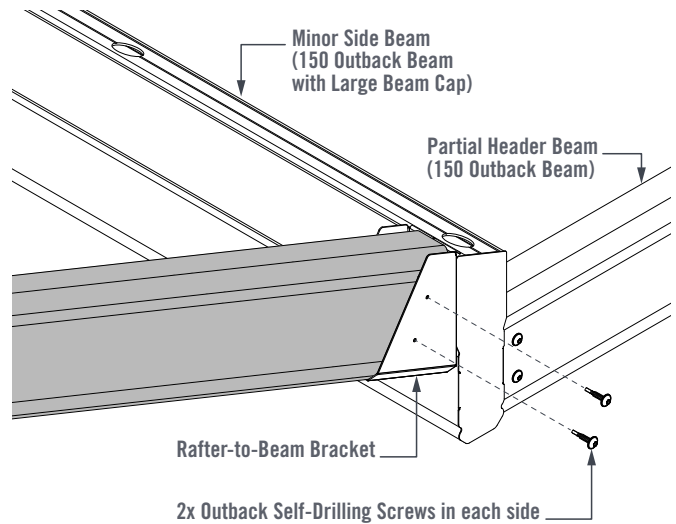


FIGURE 14.45

Check that the unit is square (Figure 14.37).

Ensure the Minor Rafter is pushed firmly into the Shared Rafter Bracket and is fully seated in the bottom of the Bracket.

Fix the Minor Rafter in-place using 2x Outback Self Drilling Screws in each side of the Shared Rafter Bracket (Figures 14.46 & 14.47).

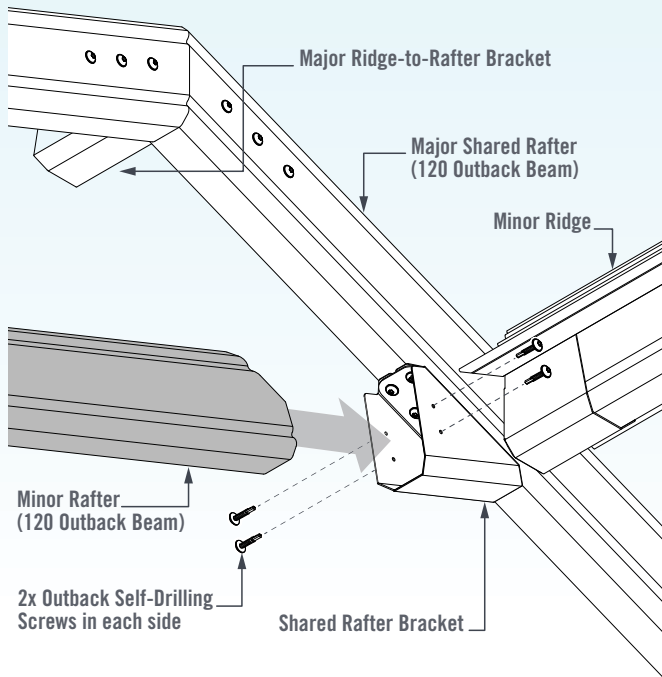


FIGURE 14.46

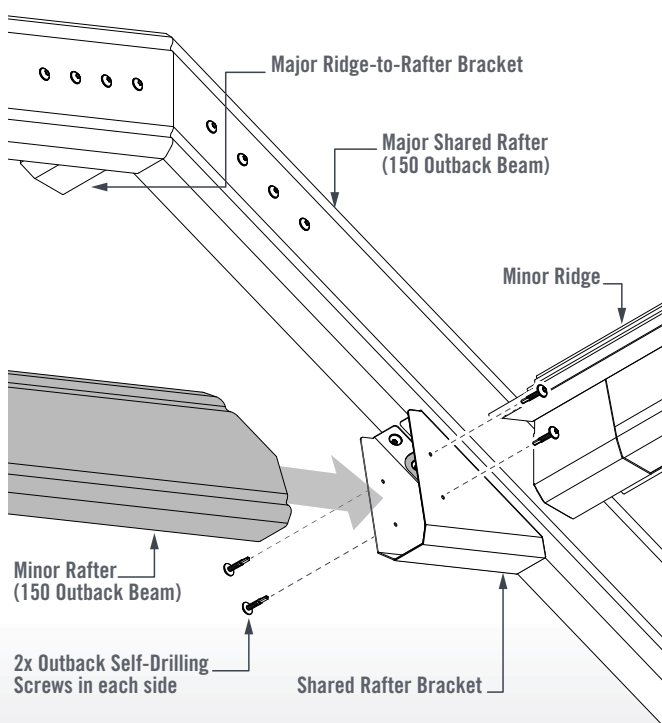


FIGURE 14.47

SIDE CAP BASE FLASHING PREPARATION

The Side Cap Base Flashing supports the roof sheet on the Minor Rafter (Figures 14.49 to 14.54). Trim the ridge end of the Side Cap Base Flashing to that it rests on the Minor Ridge Extrusion (Figure 14.48).

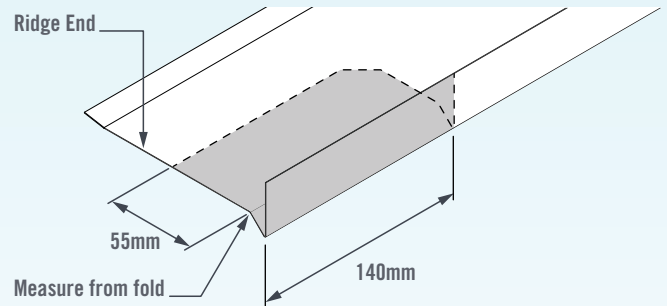


FIGURE 14.48

SIDE CAP BASE FLASHING INSTALLATION (FULL WIDTH INTERNAL HEADER)

Position the Side Cap Base Flashing on the Minor Rafter so that it rests on the Beam Cap on the Minor Side Beam and on top of the Ridge Extrusion at the Minor Ridge (Figures 14.49 & 14.50).

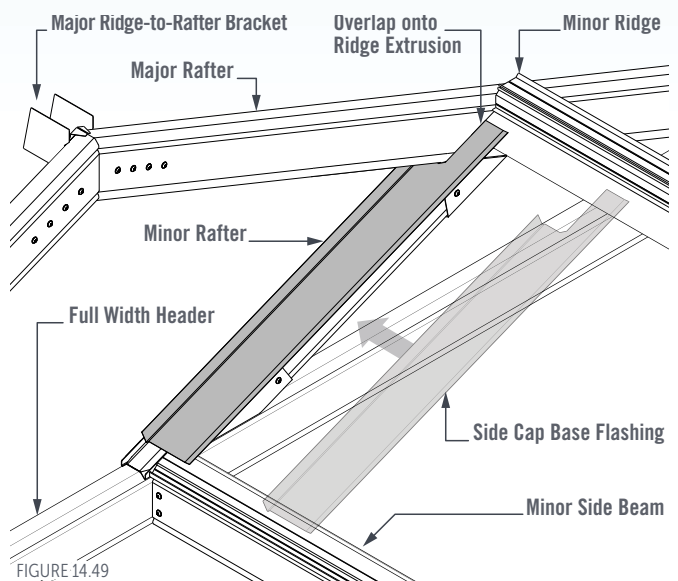


FIGURE 14.49

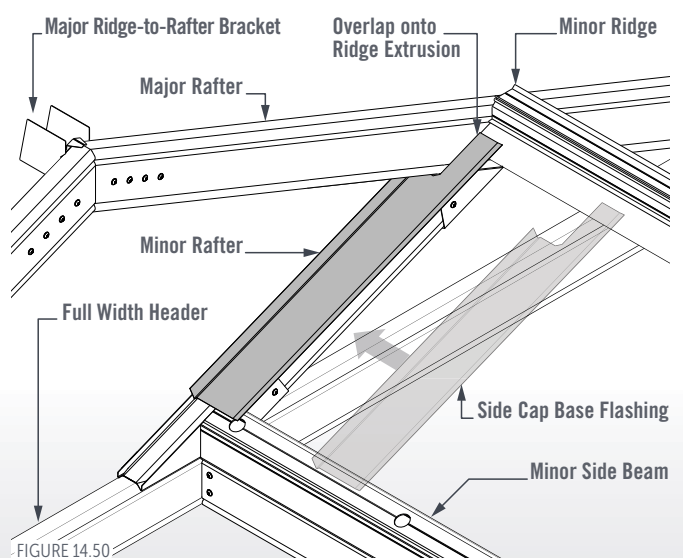


FIGURE 14.50

SIDE CAP BASE FLASHING PREPARATION (PARTIAL HEADER)

When using a Partial Header Beam trim a 30mm section of the Side Cap Base Flashing to allow for it to overlap onto the Beam Cap (Figures 14.51 to 14.53).

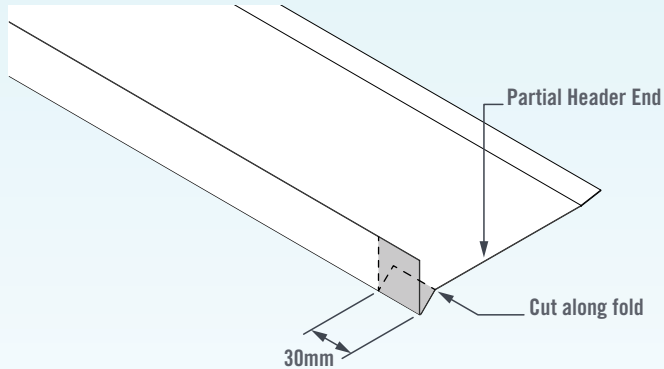


FIGURE 14.51

SIDE CAP BASE FLASHING INSTALLATION (PARTIAL HEADER)

Position the Side Cap Base Flashing on the Minor Rafter so that it rests on the Beam Cap on the Minor Side Beam and on top of the Ridge Extrusion at the Minor Ridge (Figures 14.52 & 14.53).

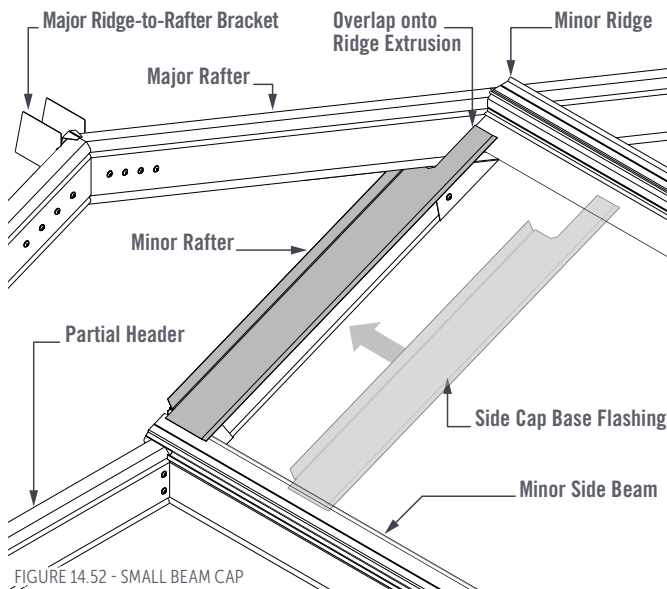


FIGURE 14.52 - SMALL BEAM CAP

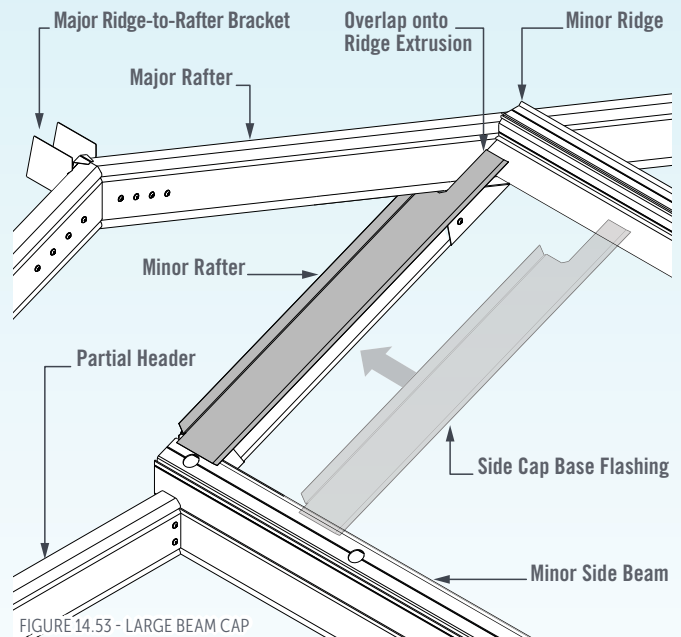


FIGURE 14.53 - LARGE BEAM CAP

Fix the Side Cap Base Flashing to the Minor Rafter using Outback Self-Drilling Screws at 500mm centres (Figure 14.54).

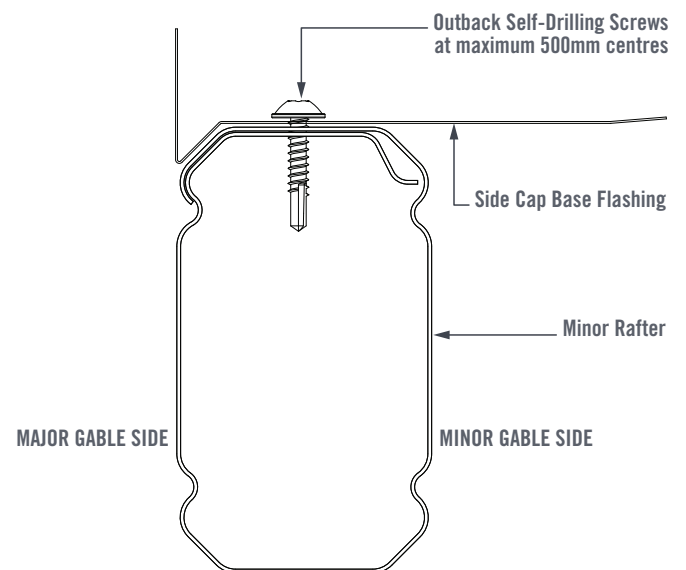


FIGURE 14.54

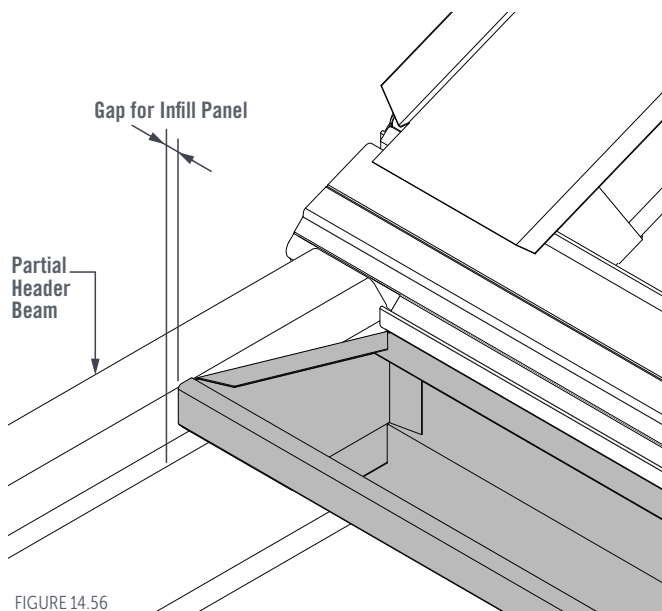
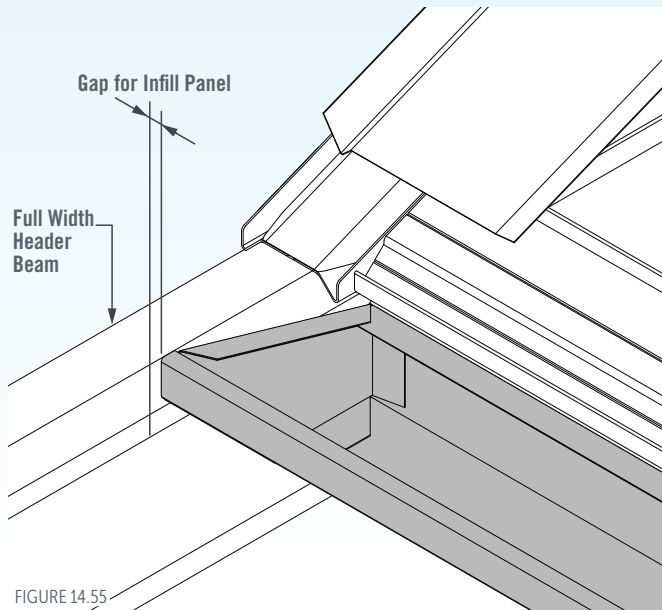
SKIP BACK TO;

Ridge Installation - Page 6.1

GUTTER INSTALLATION

Install the Gutter on the Minor Side Beam as instructed in Section 8 - Gutter Installation.

When an Infill Panel is being installed leave a gap that is equal to the thickness of the Infill Panel between the end of the Gutter and the outside face of the Header Beam (Figures 14.55 & 14.56). This will allow for installation of the Infill Panel after Roofing is installed.



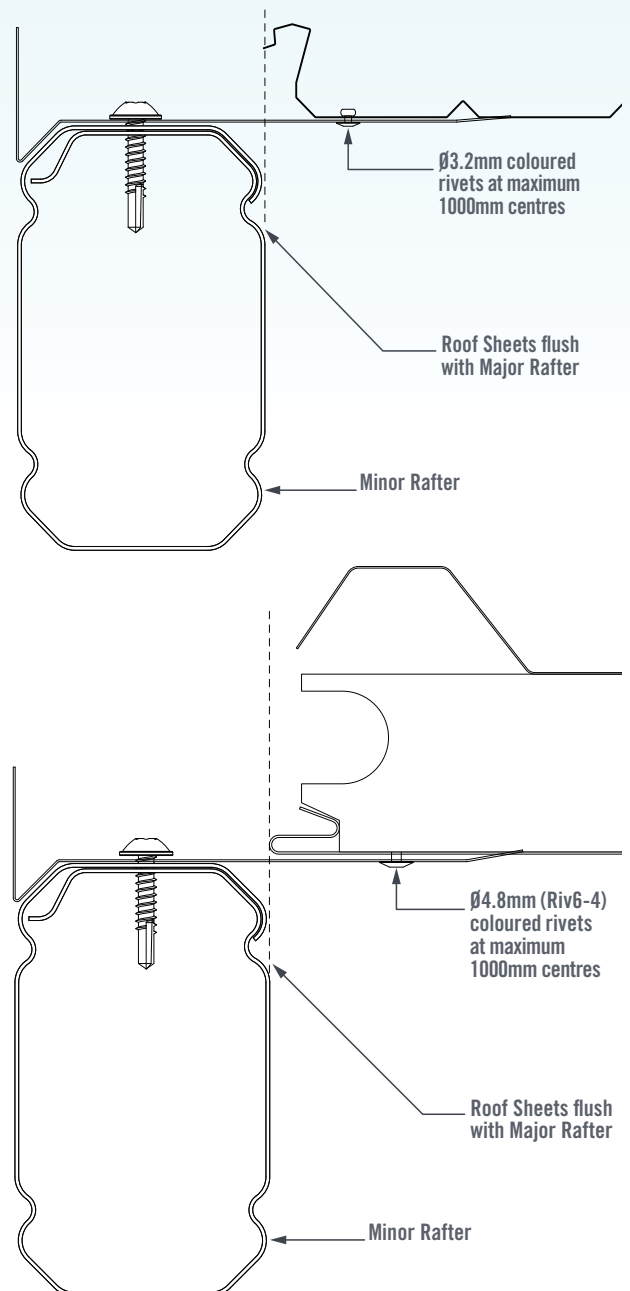
ROOFING INSTALLATION

Install roof sheets flush with the outside face of the Major Rafter (Figure 14.57 & Figures 14.58 to 14.61).

NOTE:

Roof sheet width may need to be trimmed to match the roof sheets on the continuous side of the ridge. This will be dependent on where the roof sheets are laid from.

Fix roof sheets to the Side Cap Base Flashing from underneath using Ø3.2mm coloured rivets for Outback Deck & CGI, or Ø4.8mm (RIV 6-4) coloured rivets for Cooldek, at maximum 1000mm centres (Figure 14.57).

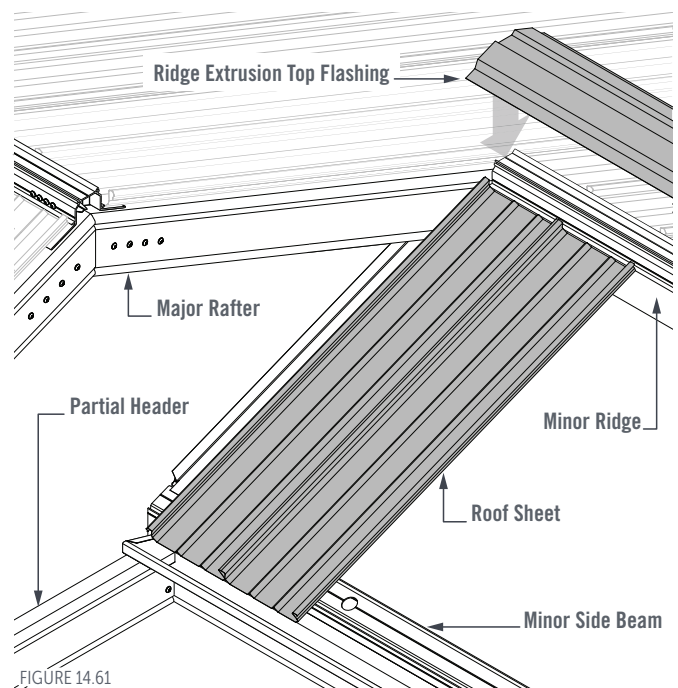
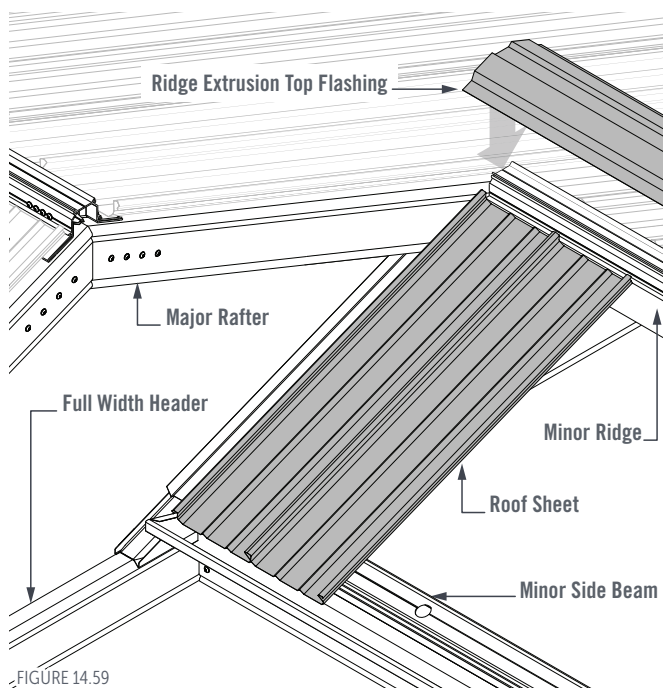
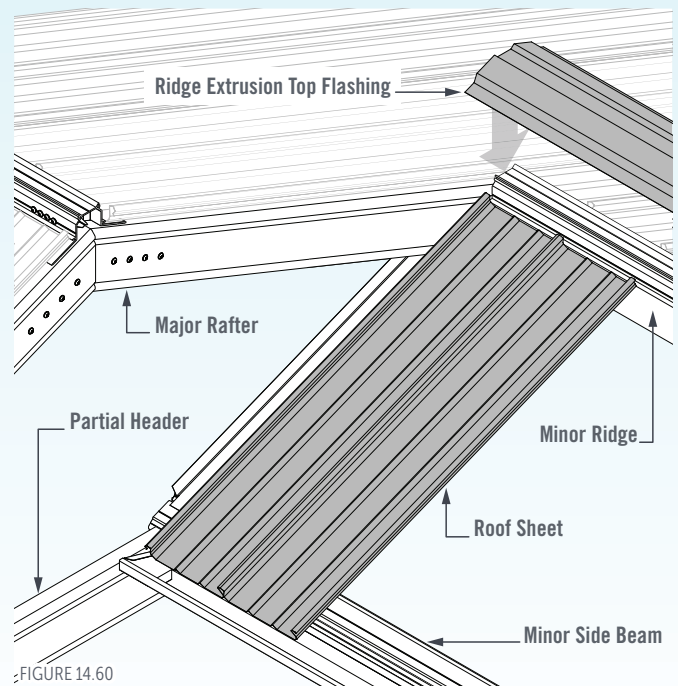
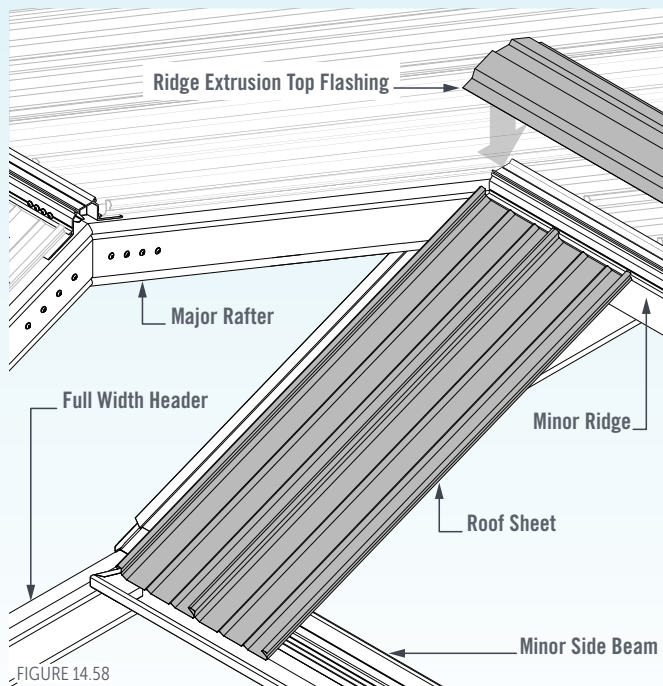


SKIP BACK TO;

Gutter Installation - Page 8.3

Refer to Section 9 - Roofing Installation for further detail on the different roofing types.

Install the Ridge Top Flashing so that it is firmly against the outside face of the Major Rafter (Figures 14.58 to 14.61)



SKIP BACK TO;

Final Fixing - Page 10.1

SPLIT WIDTH INFILL COVER FLASHING

Trim the Ridge End of the Split Width Split Width Infill Cover Flashing at a 44° angle so that it neatly aligns with the inside of the Major Rafter (Figure 14.62).

NOTE:

If the Minor Gable section is located on the Left-Hand side of the unit, trim the opposite end of the Flashing shown in Figures 14.62 to 14.66.

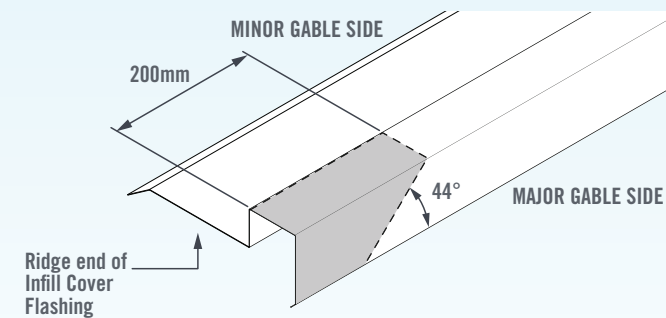


FIGURE 14.62

FULL WIDTH INTERNAL HEADER (SMALL & LARGE BEAM CAPS)

&

PARTIAL HEADER (SMALL BEAM CAP)

Measure and mark the Header End of the Split Width Split Width Infill Cover Flashing at a 22° angle so that it meets neatly with the Top of the Header Beam (Figures 14.63 to 14.65).

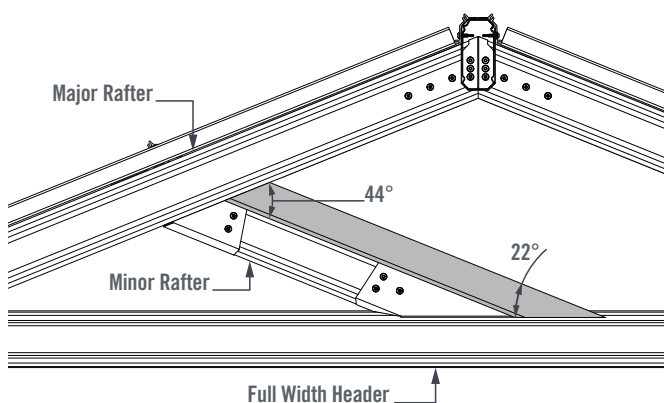


FIGURE 14.63

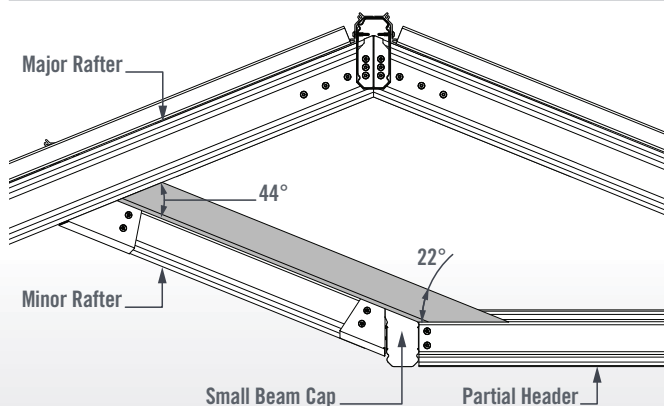


FIGURE 14.64

Trim the large pan section of the Split Width Infill Cover Flashing so that it is aligned vertically with the outside corner of the Header and Minor Side Beams (Figures 14.65 & 14.66).

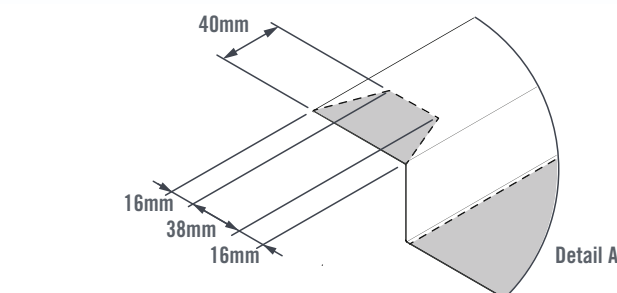
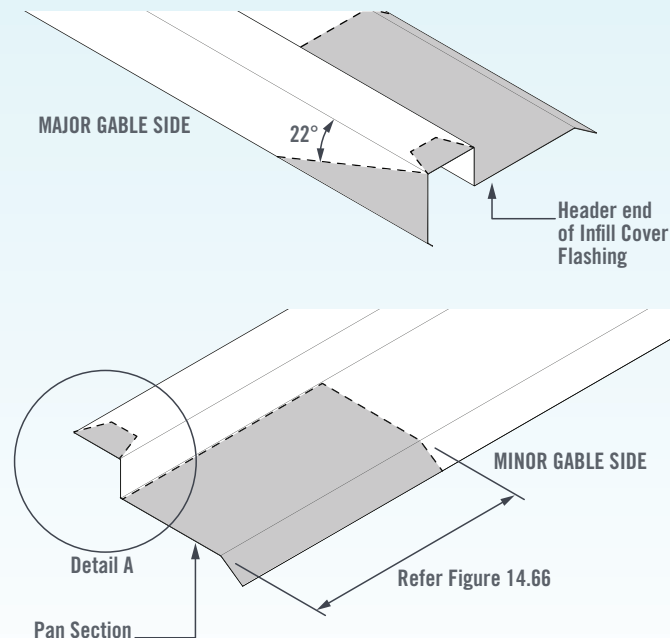


FIGURE 14.65

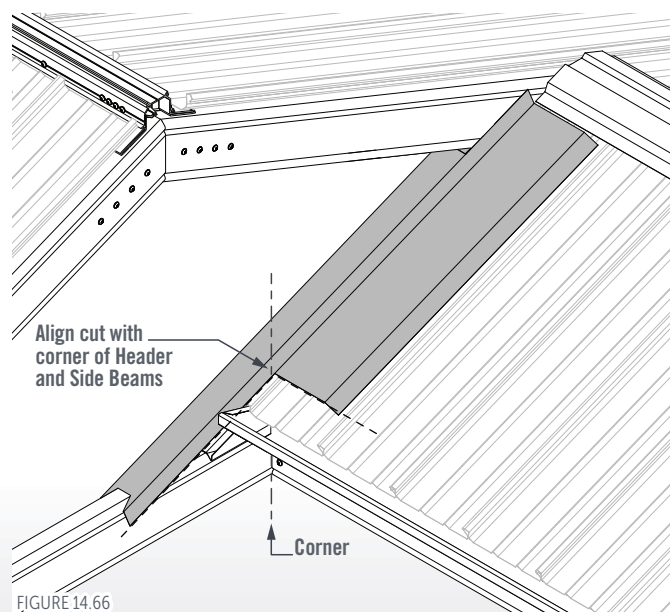


FIGURE 14.66

PARTIAL HEADER (LARGE BEAM CAP)

Measure and mark the Header End of the Split Width Infill Cover Flashing to a 68° angle so that it is vertically aligned with the outside face of the Minor side beam (Figure 14.67).

NOTE:

If the Minor Gable section is located on the Left-Hand side of the unit, trim the opposite end of the Flashing shown in Figures 14.67 to 14.69.

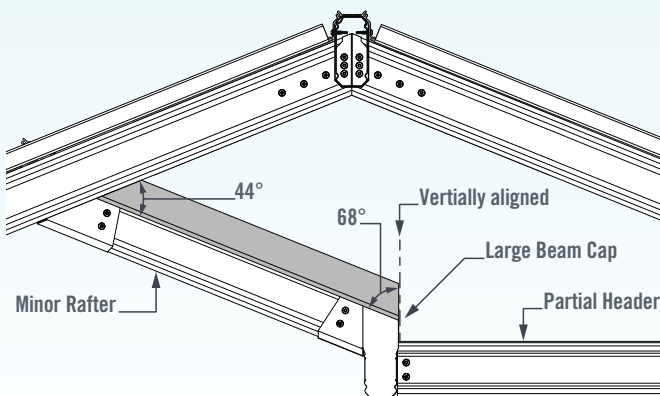


FIGURE 14.67

Trim the Split Width Infill Cover Flashing and fold a section down to cover the opening left above the Large Beam Cap (Figures 14.68 & 14.69).

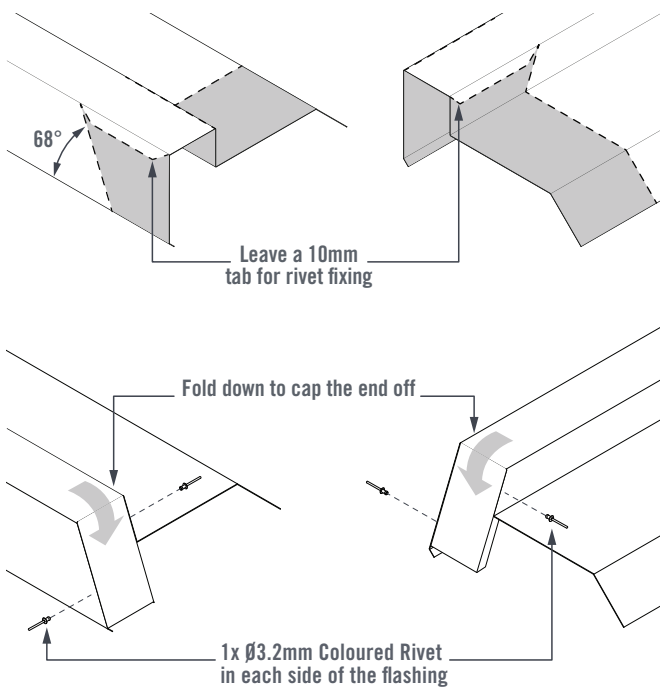


FIGURE 14.68

SPLIT WIDTH INFILL COVER FLASHING INSTALLATION

Place the Split Width Infill Cover Flashing on the Minor Rafter so that it rests on the roof sheet, against the outer face of the Major Rafter, and against the Side Cap Base Flashing on the inside of the unit (Figure 14.69).

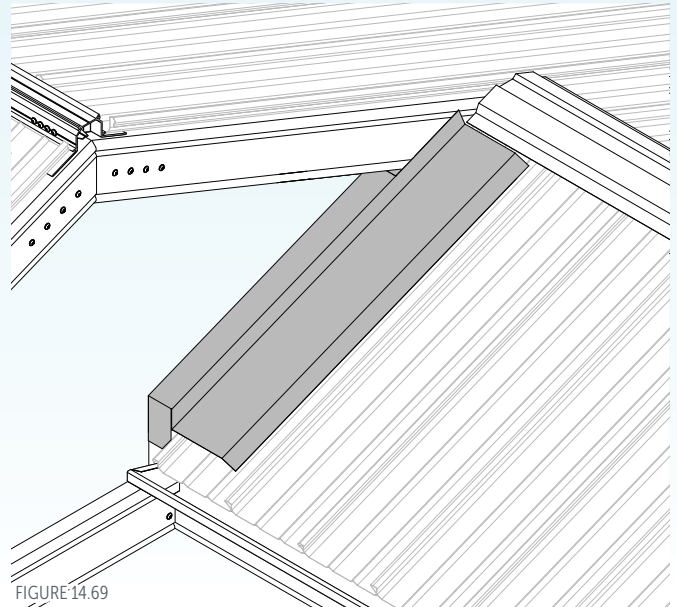


FIGURE 14.69

Secure the Split Width Infill Cover Flashing to the Side Cap Base Flashing using Ø3.2mm coloured rivets at maximum 500mm centres (Figure 14.70 & Figures 14.76 to 14.79).

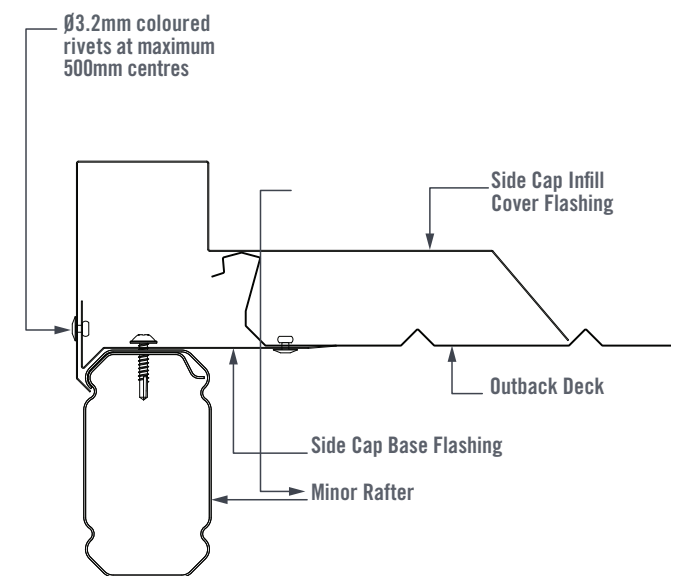


FIGURE 14.70

INFILL PANEL INSTALLATION

Measure the outer edges of the Rafters and Header Beam of the gable opening, from the tops of the Major Rafters to the pan section of the Split Width Infill Cover Flashing, and to the bottom face of the Header Beam (Figures 14.70 to 14.73).

Ensure the vertical section of the Infill Panel extends down the outer face of the Minor Side Beam behind the Gutter (Figures 14.71 to 14.74).

Multiple panel sections may be required.

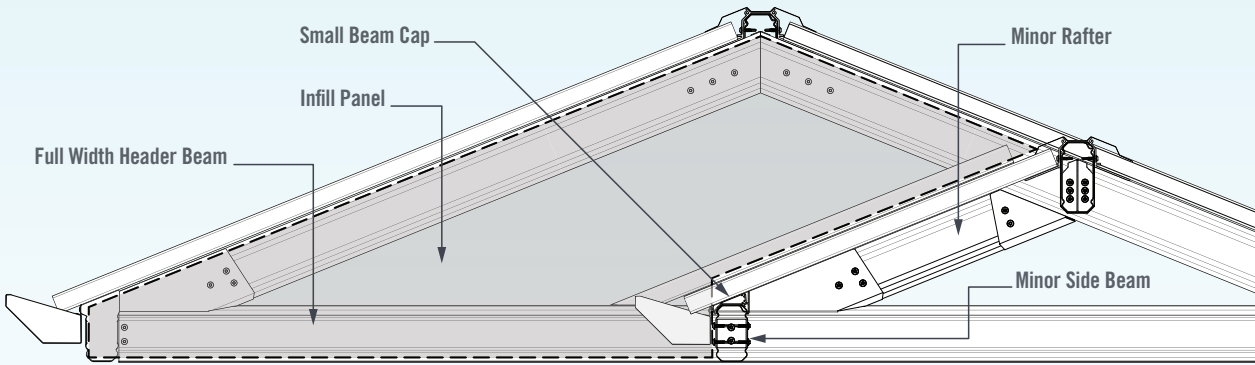


FIGURE 14.71

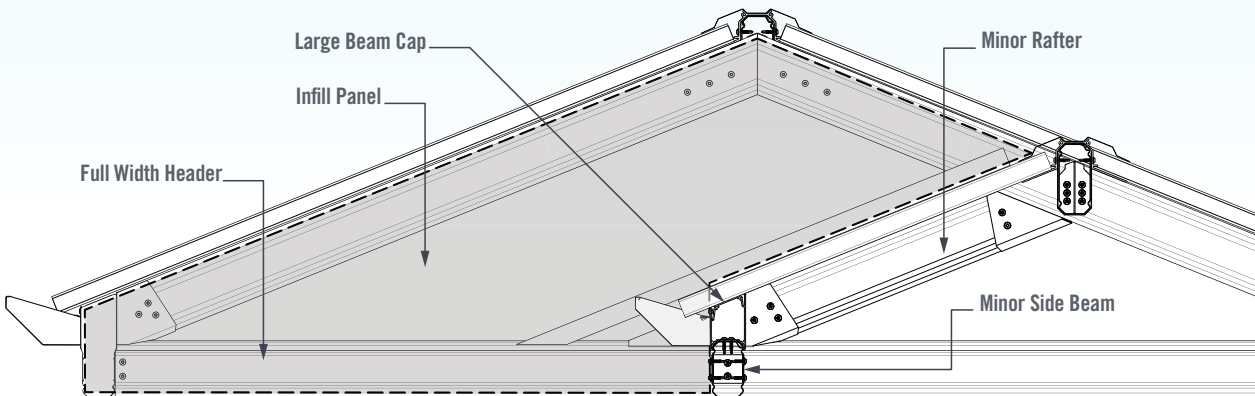


FIGURE 14.72

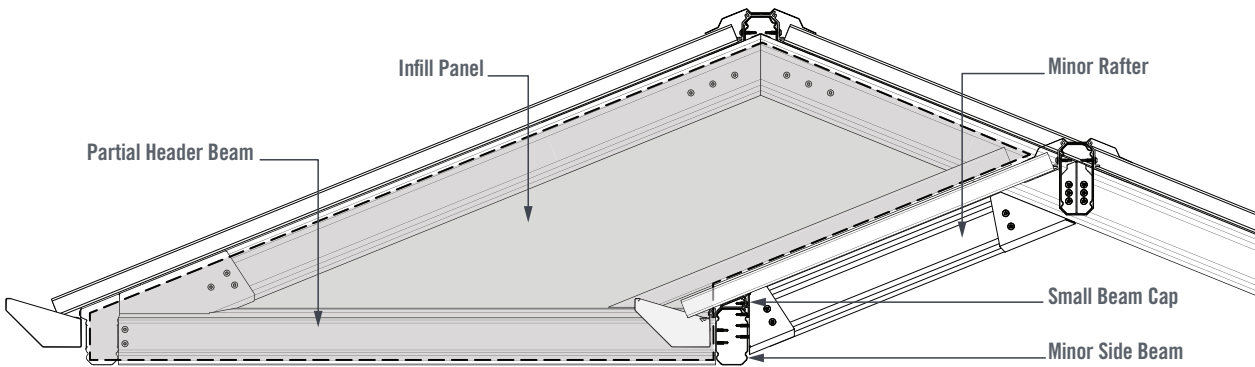


FIGURE 14.73

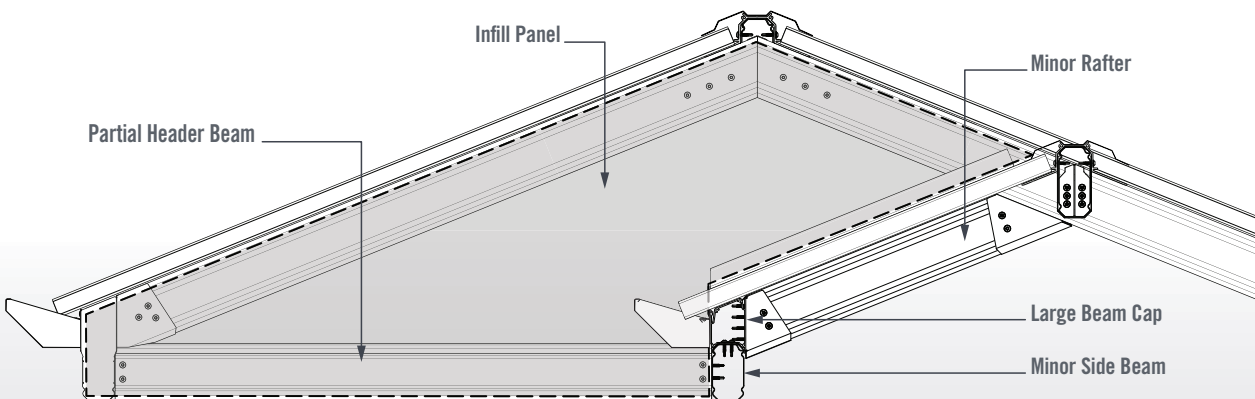


FIGURE 14.74

Position the Infill Panel on the outer face of the Rafters and Header Beam, resting it on top of the Split Width Infill Cover Flashing (Figures 14.71 to 14.79), ensuring the Infill Panel slides behind the Gutter on the Minor Side Beam and is firmly against the Header Beam (Figures 14.71 to 14.74).

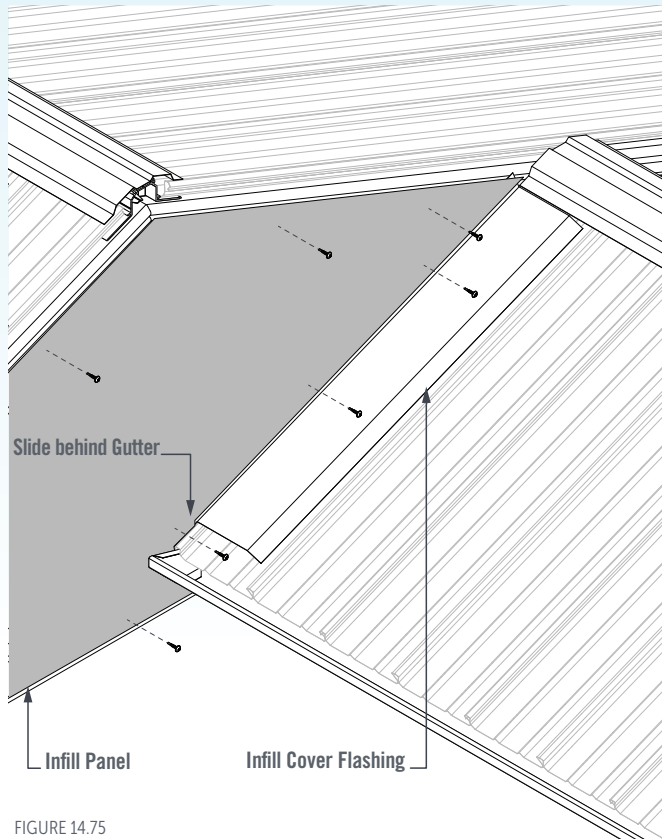


FIGURE 14.75

Fix the Infill Panel to the Rafters and Split Width Infill Cover Flashing using Outback Self-Drilling Screws at maximum 500mm centres (Figures 14.76 to 14.79).

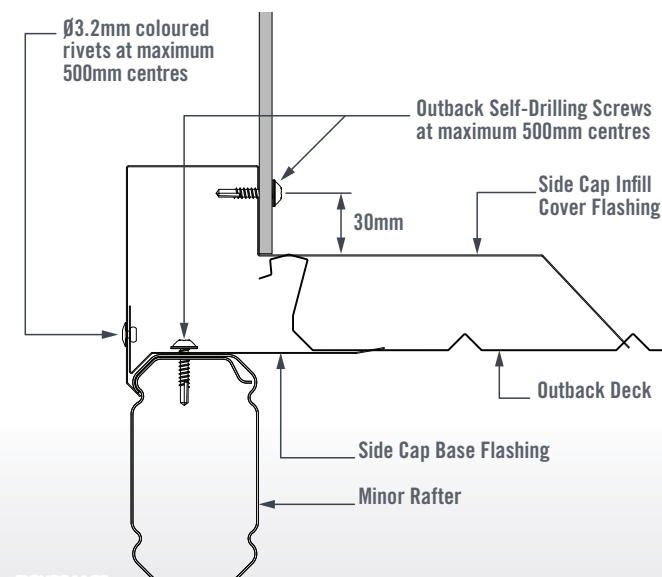


FIGURE 14.76

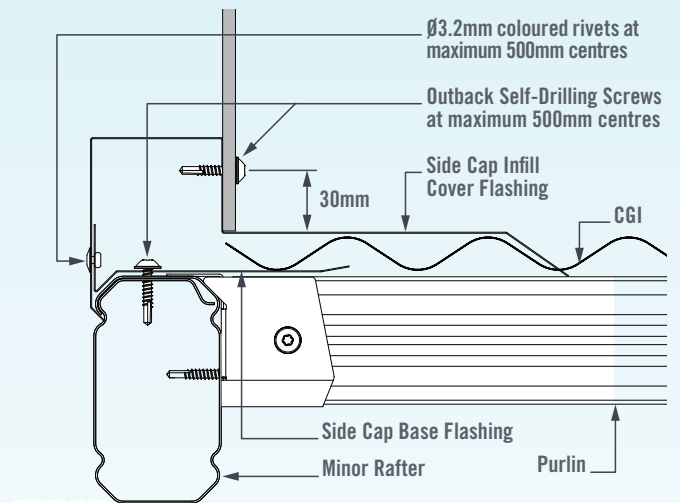


FIGURE 14.77

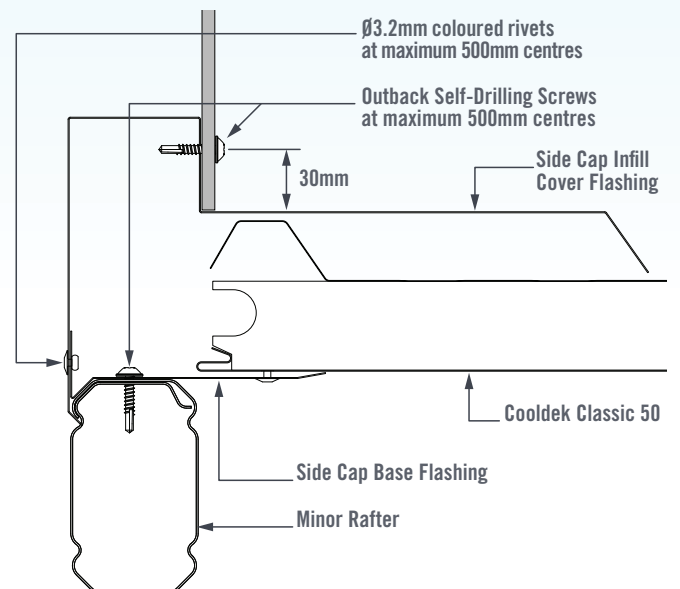


FIGURE 14.78

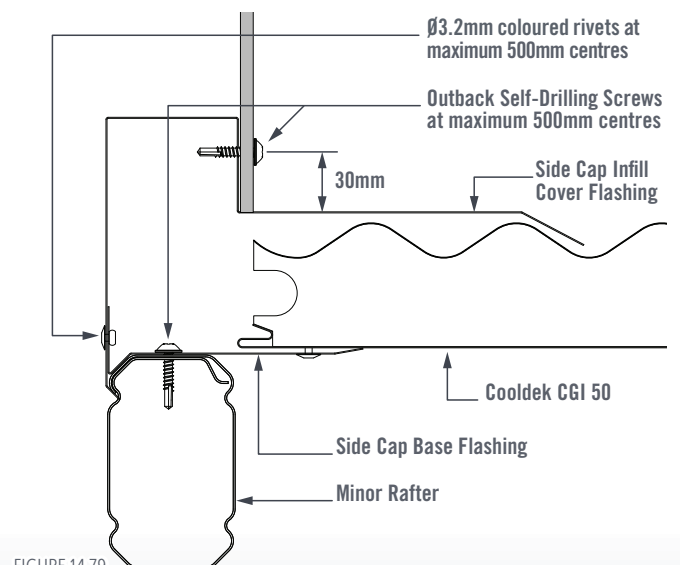


FIGURE 14.79

SKIP BACK TO;
Flashing Installation - Page 12.1

SIDE CAP COVER FLASHING (NO INFILL)

Trim the Ridge End of the Side Cap Cover Flashing at a 44° angle so that it neatly aligns with the Major Rafter (Figure 14.80).

NOTE:

If the Minor Gable section is located on the Left-Hand side of the unit, trim the opposite end of the Flashing shown in Figures 14.80 to 14.84.

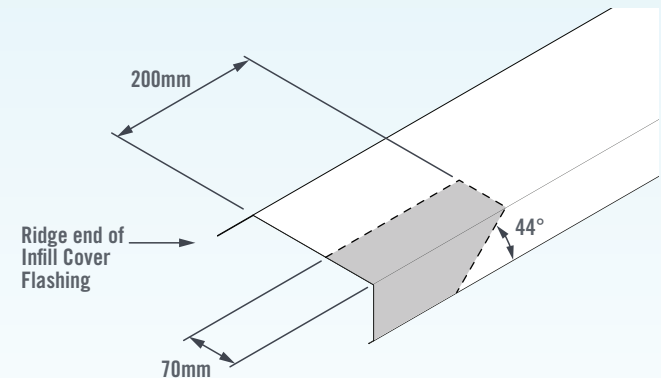


FIGURE 14.80

FULL WIDTH INTERNAL HEADER
(SMALL & LARGE BEAM CAPS)

&
PARTIAL HEADER
(SMALL BEAM CAP)

Measure and mark the Header End of the Side Cap Cover Flashing at a 22° angle so that it meets neatly with the Top of the Header Beam (Figures 14.81 to 14.84).

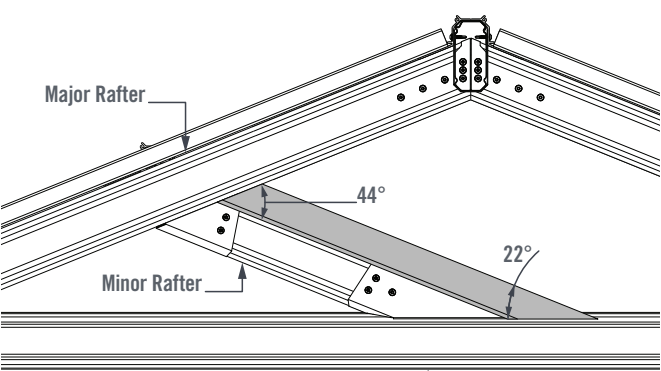


FIGURE 14.81

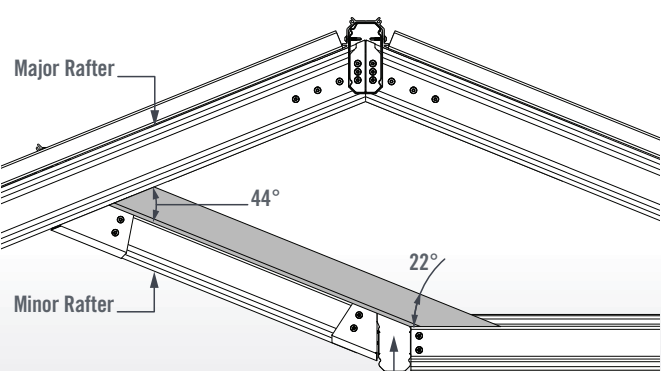


FIGURE 14.82

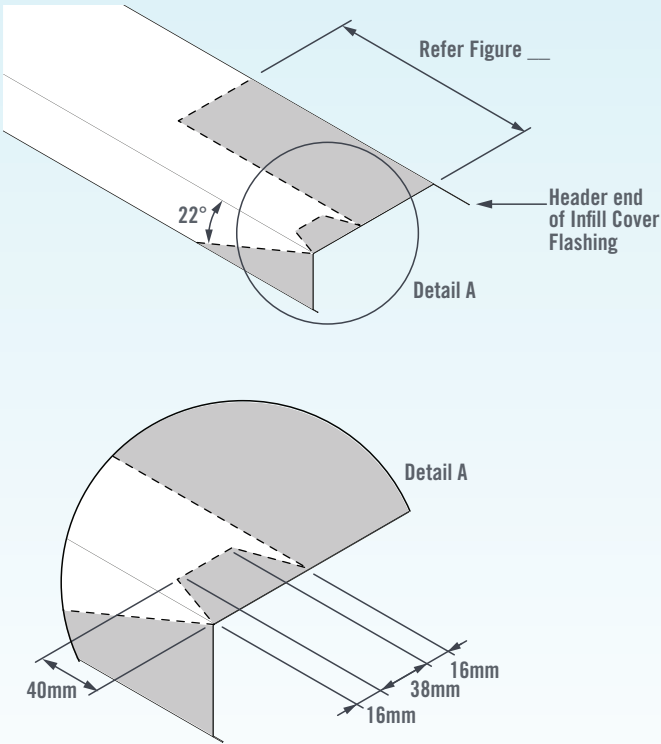


FIGURE 14.83

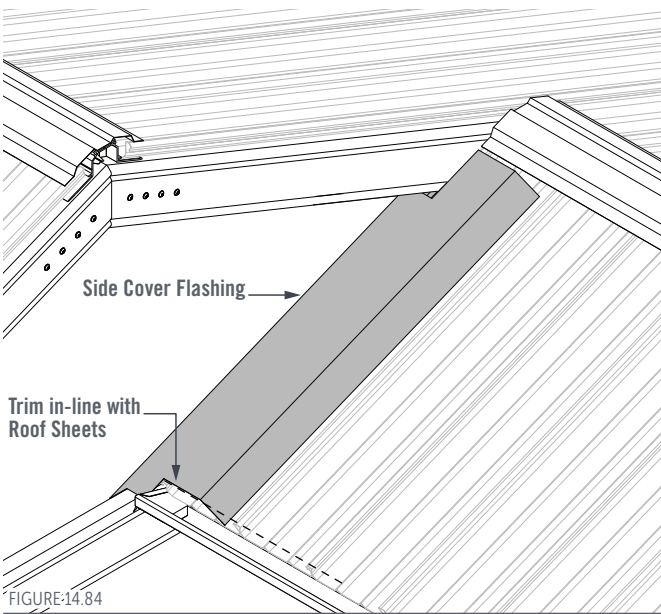


FIGURE 14.84

PARTIAL HEADER (LARGE BEAM CAP)

Measure and mark the Header End of the Side Cap Cover Flashing to a 68° angle so that it is vertically aligned with the outside face of the Minor side beam (Figure 14.85).

NOTE:

If the Minor Gable section is located on the Left-Hand side of the unit, trim the opposite end of the Flashing shown in Figures 14.85 to 14.87.

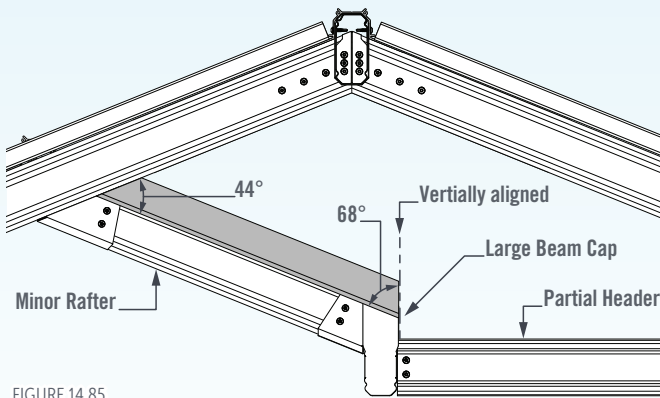


FIGURE 14.85

Trim the Side Cap Cover Flashing and fold a section down to cover the hole left above the Large Beam Cap (Figures 14.86 & 14.87).

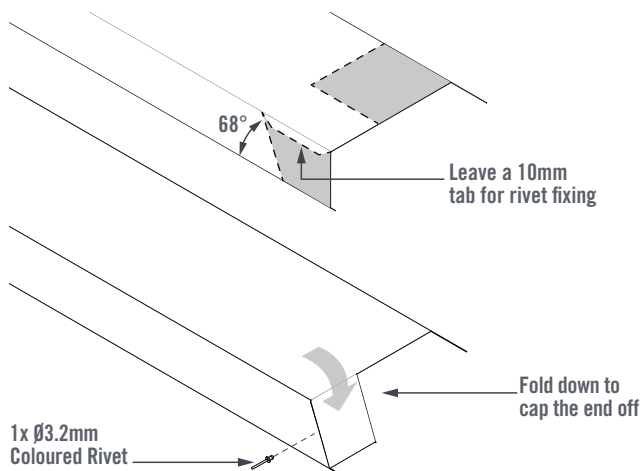


FIGURE 14.86

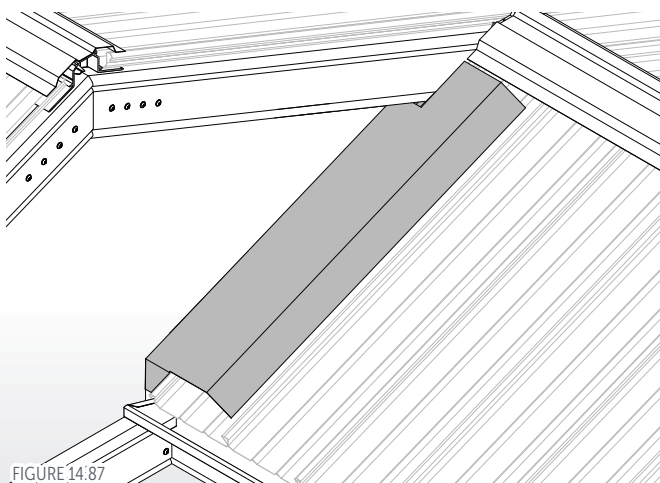


FIGURE 14.87

MINOR RIDGE CAP PREPARATION

Trim the Ridge Cap 70mm so that it laps over the roof sheets on the Major Rafter. Fold up a 15mm tab which will go under the Barge Cap to minimise water ingress (Figure 14.88).

NOTE:

If the Minor Gable section is located on the Left-Hand side of the unit, trim the opposite end of the Flashing shown in Figures 14.85 to 14.87.

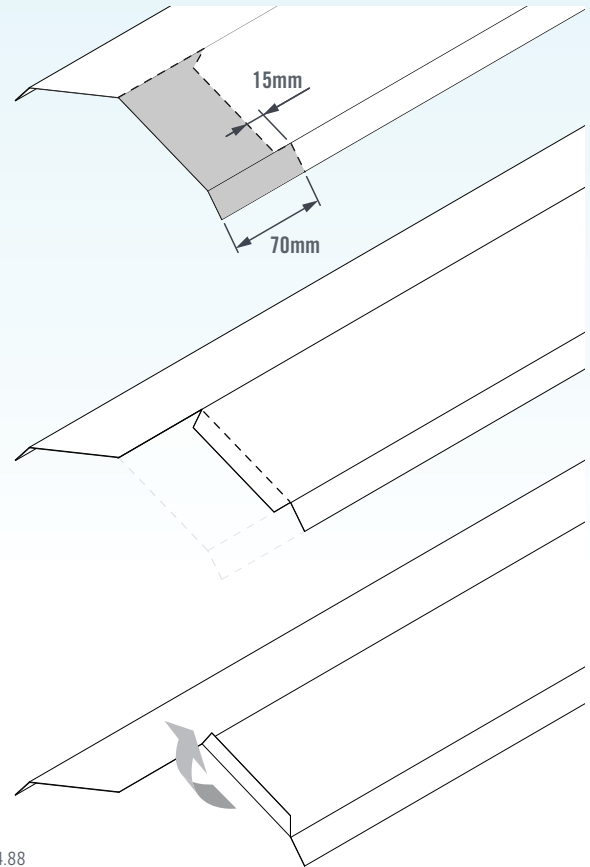


FIGURE 14.88

MINOR RIDGE CAP INSTALLATION

Position the Minor Ridge Cap so that the folded tab is butted against the Major Rafter. Ensure the Ridge Cap overlaps the Split Width Infill Cover Flashing (Figure 14.89).

Secure the Ridge Cap to the Back Channel Top Flashing as specified in Section 12 - Flashing Installation.

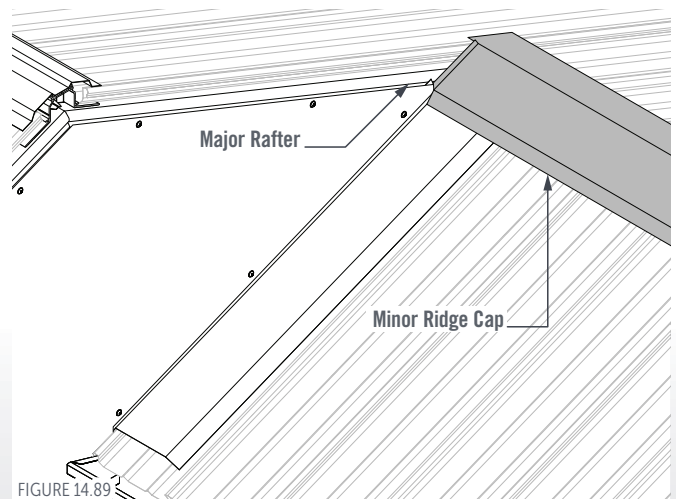


FIGURE 14.89

TRADITIONAL BARGE CAPPING

Trim the Barge Capping at 44° so that it neatly overlaps the Minor Ridge Capping (Figures 14.90 & 14.91).
Prepare and Fix the Barge Capping as specified in Section 11 - Flashing Installation.

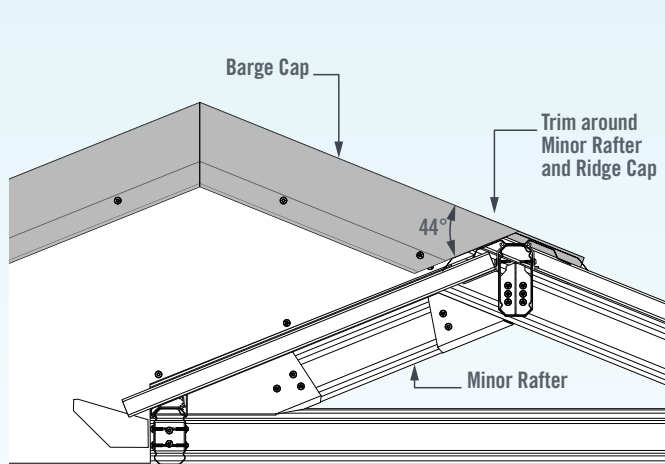


FIGURE 14.90

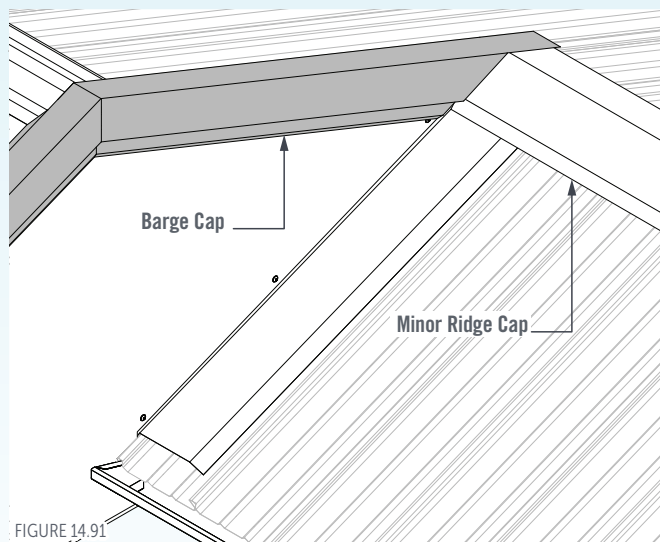


FIGURE 14.91

SKIP BACK TO;

Ridge Bulkhead Installation - Page 13.1

15. EQUAL RETURN GABLE UNITS

SIDE BEAM ASSEMBLY (RETURN UNIT)
VALLEY-TO-INTERNAL CORNER PLATE
(SMALL BEAM CAP)

Side Beams are joined at the internal corners using a Valley-to-Internal Corner Plate. These may include provisions for the SHS Column Connection.

Use construction props to support the two adjacent Side Beams.

Position Side Beams in the Valley-to-Internal Corner Plate so there is an offset of 50mm from the internal face of one Side Beam to the end of the opposing Side Beam (Figure 15.1). Refer to Detail Sheets provided to determine which Side Beam is offset.

Fasten the Valley-to-Internal Corner Plate to the Side Beams using 4x Outback Self-Drilling Screws through the pilot holes provided (Figures 15.2 to 15.5).

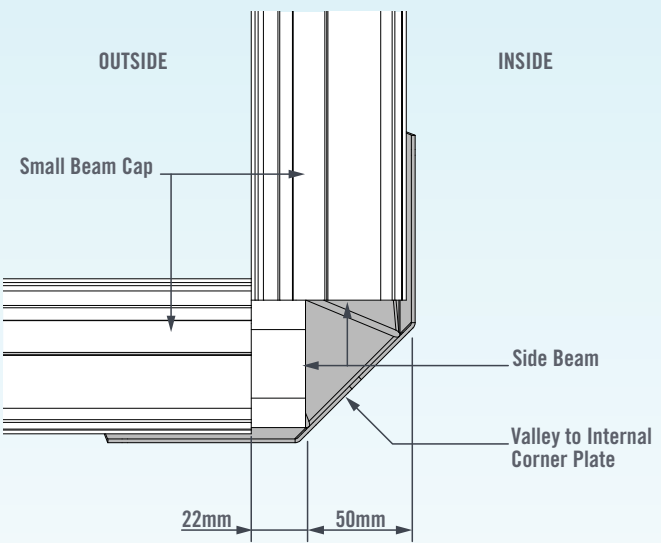


FIGURE 15.1

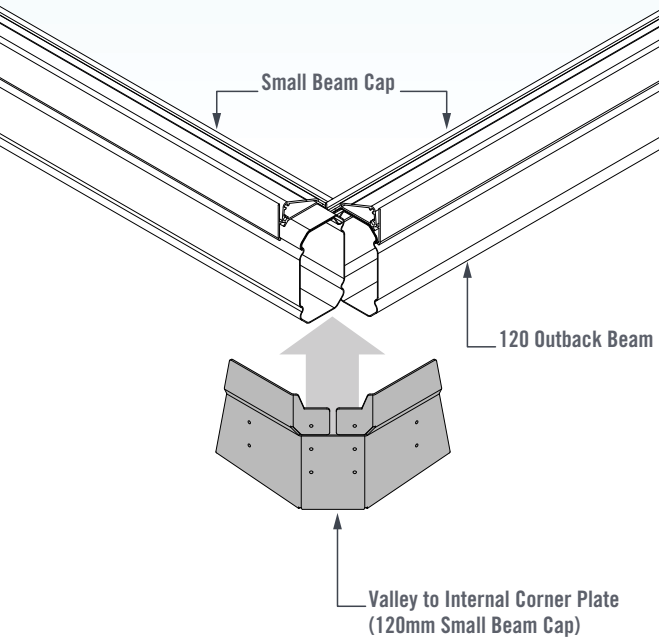


FIGURE 15.2

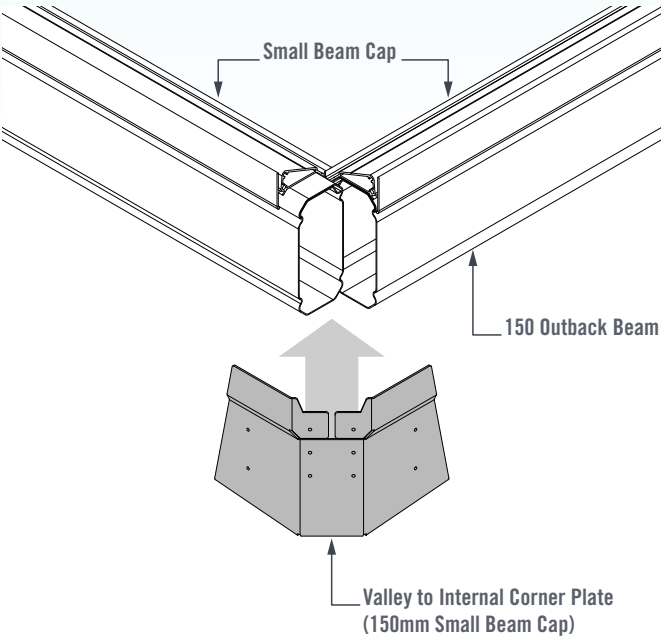


FIGURE 15.4

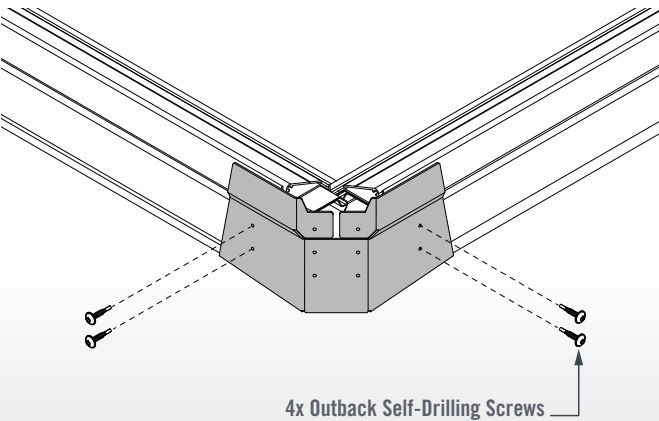


FIGURE 15.3

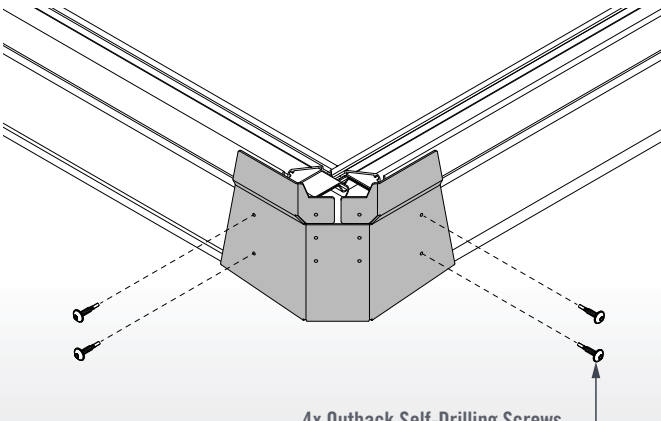


FIGURE 15.5

VALLEY-TO-INTERNAL CORNER PLATE (LARGE BEAM CAP)

Side Beams are joined at the internal corners using a Valley-to-Internal Corner Plate.

Use construction props to support the two adjacent Side Beams.

Position Side Beams in the Valley-to-Internal Corner Plate so there is an offset of 50mm from the internal face of one Side Beam to the end of the opposing Side Beam (Figure 15.6). Refer to Detail Sheets provided to determine which Side Beam is offset.

Fasten the Valley-to-Internal Corner Plate to the Side Beams and Large Beam Caps using 6x Outback Self-Drilling Screws through the pilot holes provided (Figures 15.7 to 15.10).

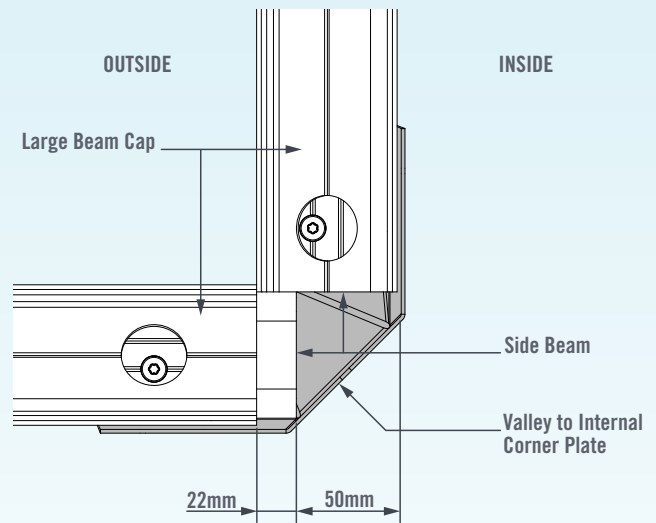


FIGURE 15.6

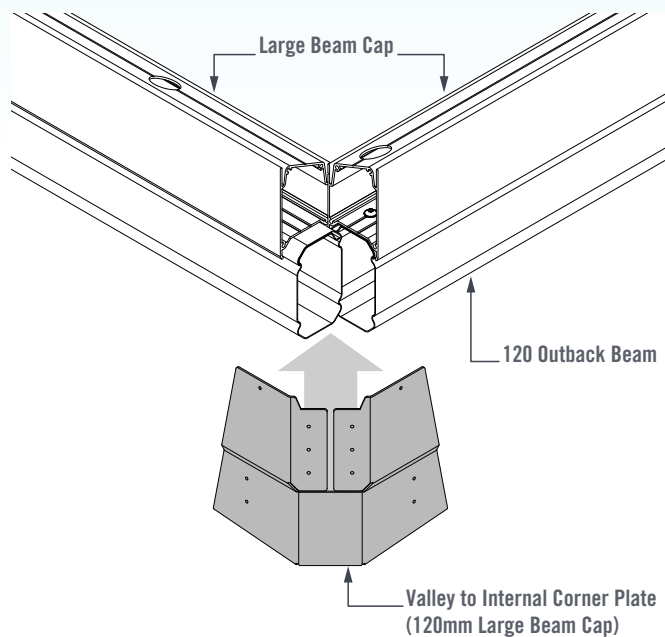


FIGURE 15.7

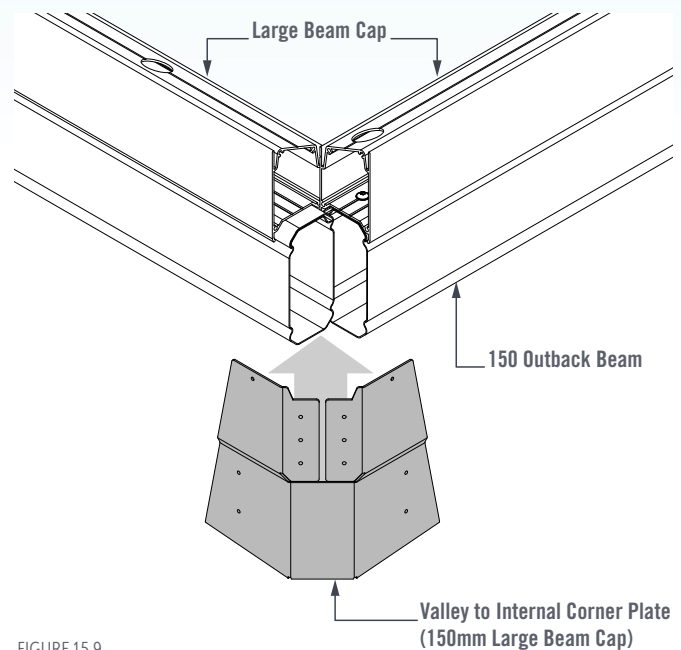


FIGURE 15.9

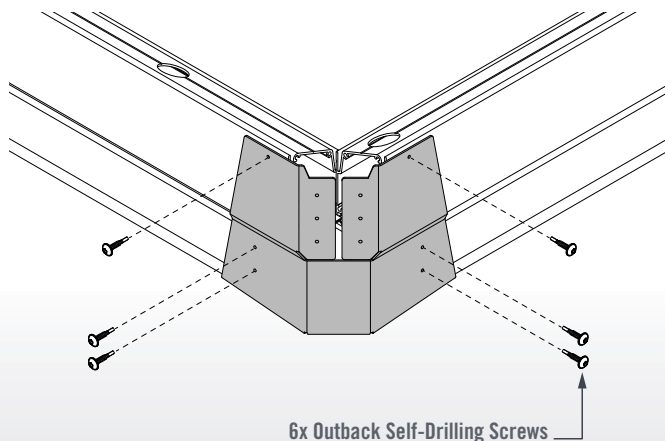


FIGURE 15.8

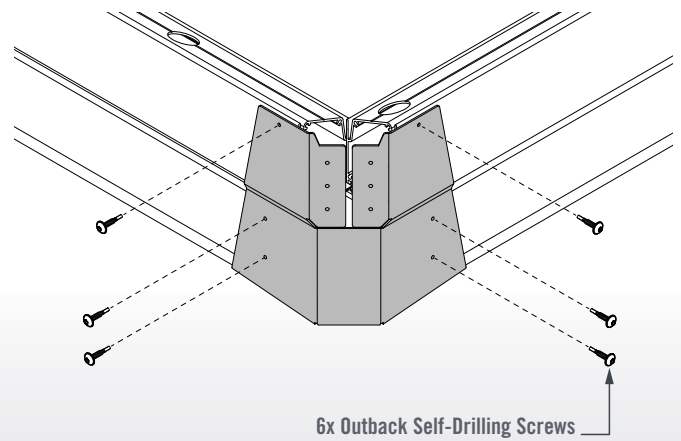


FIGURE 15.10

EXTERNAL CORNER COVER

An external Corner Cover is required to further strengthen the Internal Corner junction

Position the External Corner Cover within the corner so that it sits firmly against the bottoms and sides of the Side Beams.

Fix the External Corner Cover to the Side Beams using 4x Outback Self Drilling Screws through the Pilot Holes Provided (Figures 15.11 to 15.14).

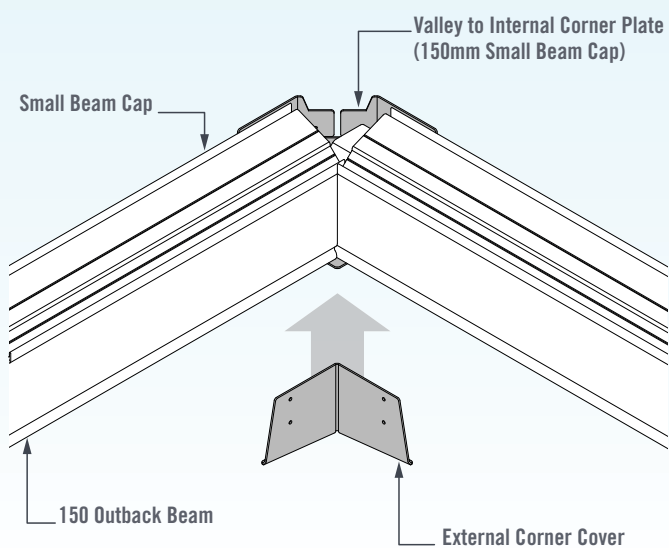


FIGURE 15.11

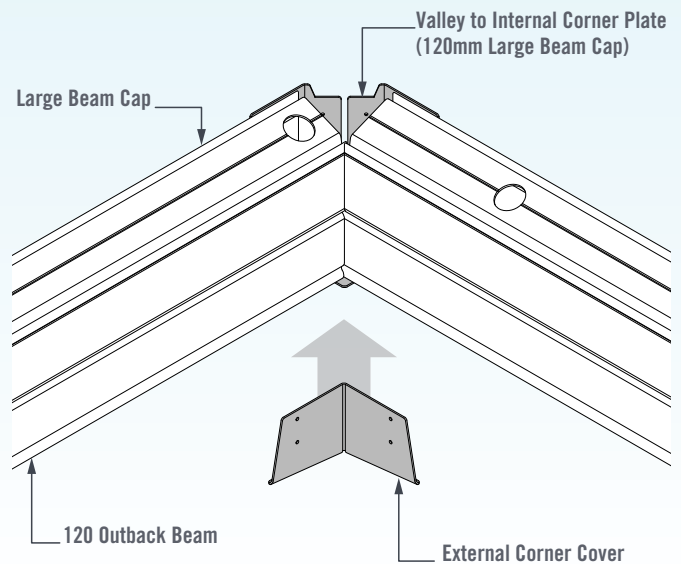


FIGURE 15.13

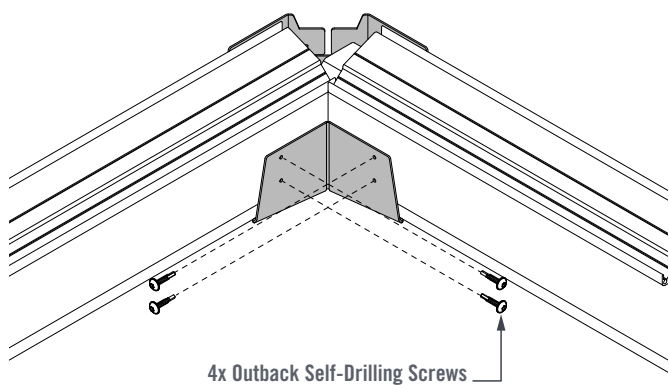


FIGURE 15.12

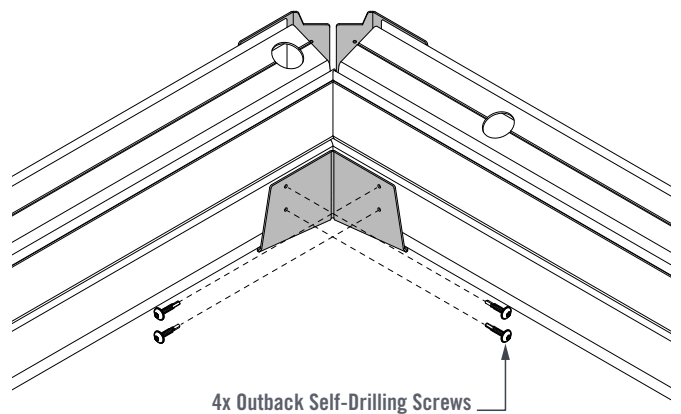


FIGURE 15.14

SKIP BACK TO;

Gable Rafter Set Assembly - Page 3.1

RAFTER SET ASSEMBLY (EQUAL RETURN)

HIP-VALLEY RAFTER KNUCKLE ASSEMBLY

The Hip-Valley Rafter Set uses a Knuckle and Rafters pitched at 16°.

Refer to Detail Sheets to identify the appropriate Rafters by length and how the Hip and Valley Rafters are oriented.

NOTE: Length of Rafters are not equal.

Insert the 16° Ridge Knuckle into the Outback Rafters ensuring the Rafters are flush with no gaps and the seams of the beams are at the top (Figures 15.15 & 15.16).

120 OUTBACK BEAM RAFTER SET

Measure and mark the screw locations along the middle of the beam, 60mm from the top/bottom face of the beam (Figure 15.15).

On the Hip Rafter, the first screw will be 85mm from the centre join and 30mm spacing between screws.

On the Valley Rafter the first screw will be 115mm from the centre join, and then 30mm spacing between screws.

IMPORTANT NOTE:

This screw spacing is critical for engineering, and fitment of the Ridge to Rafter Brackets and Bulkhead.

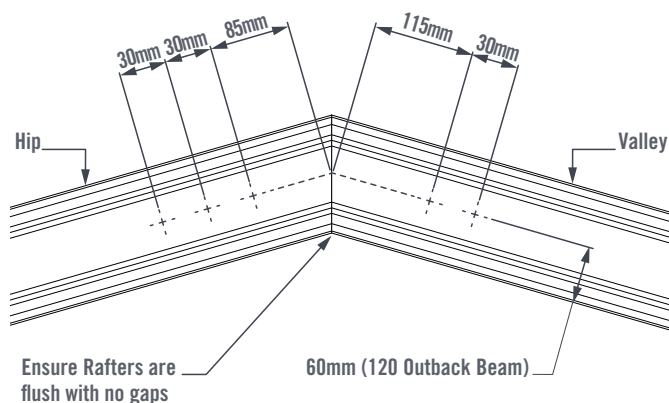


FIGURE 15.15

150 OUTBACK BEAM RAFTER SET

Measure and mark the screw locations along the middle of the beam, 75mm from the top/bottom face of the beam (Figure 15.16).

On the Hip rafter, the first screw will be 75mm from the centre join and 30mm spacing between screws.

On the Valley Rafter the first screw will be 105mm from the centre join and 30mm spacing between screws.

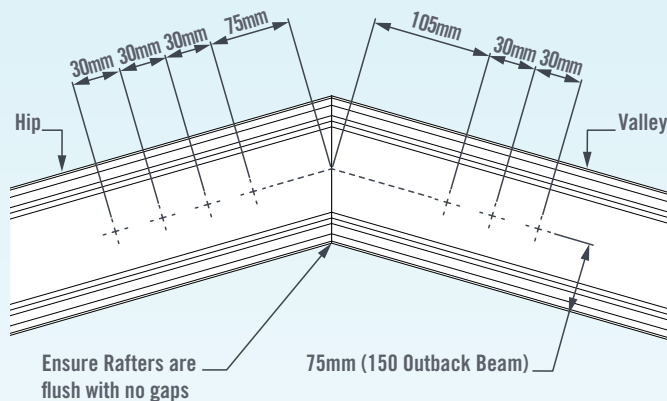


FIGURE 15.16

HIP-VALLEY RIDGE-TO-RAFTER BRACKETS

Position the 45° LH and RH Ridge to Rafter brackets on the 45° Rafter set so that locating tabs are resting flush on the apex of the rafters (Figure 15.17).

Ensure the brackets are positioned correctly in relation to the Hip and Valley Rafters (Figures 15.17 & 15.18).

Fix the brackets to the rafter set with 4x Outback Self-Drilling Screws through access window using the pilot holes in the back of the bracket (Figures 15.17 & 15.18).

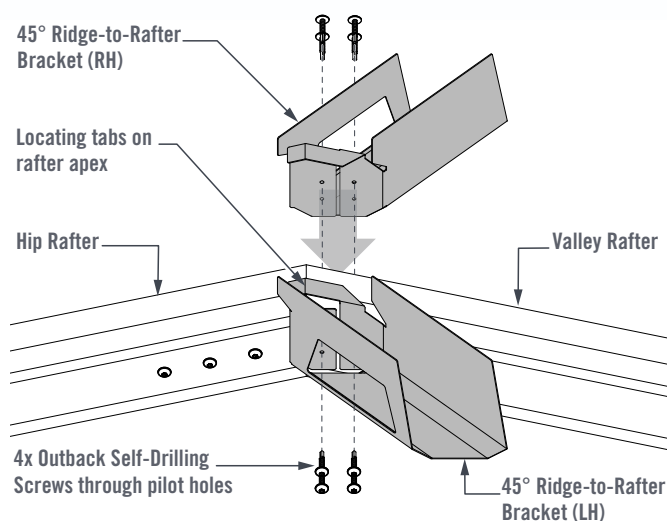


FIGURE 15.17

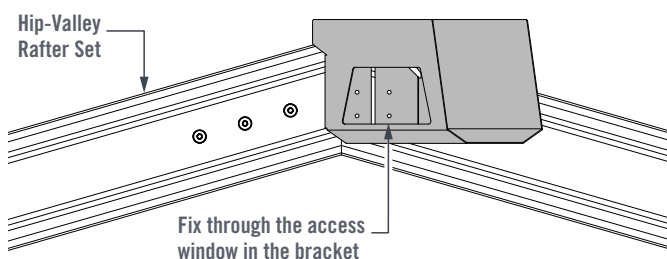


FIGURE 15.18

IMPORTANT NOTE:

This screw spacing is critical for engineering, and fitment of the Ridge to Rafter Brackets and Bulkhead.

SKIP BACK TO;

Column Installation - Page 4.1

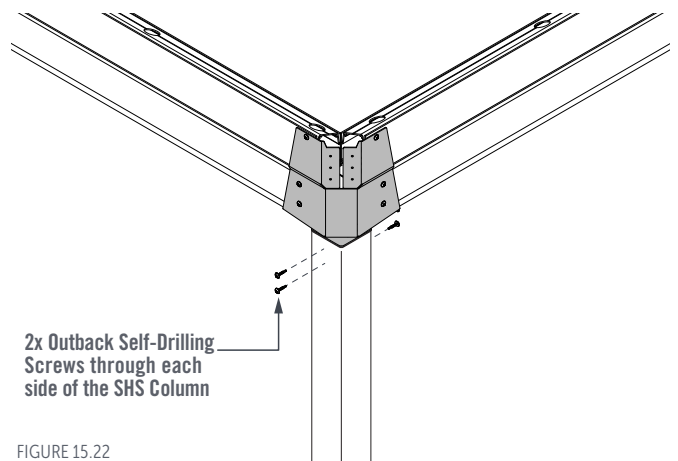
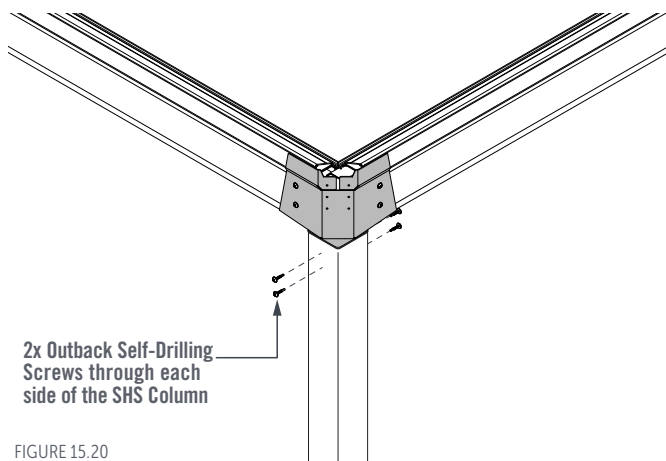
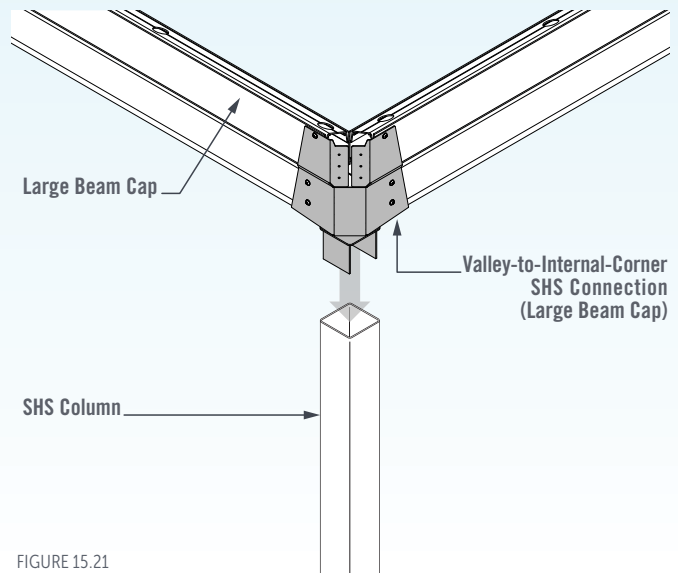
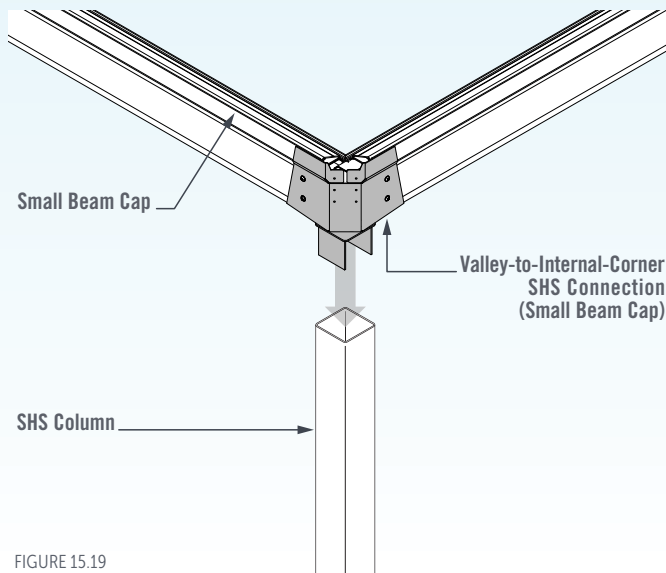
COLUMNS AND FOOTINGS (RETURN UNITS)

VALLEY TO INTERNAL CORNER SHS CONNECTION

Measure from the underside of the Valley-to-Internal Corner Bracket to the top of the brick or the top of the slab (minus footing plate thickness) and cut posts to this length.

Fit the SHS Column over the Valley-to-Internal Corner connector (Figures 15.19 & 15.21).

Fasten the Valley-to-Internal Corner Connection SHS post with 2x Outback Self-Drilling Screws on either side of the Column (Figures 15.20 & 15.22).



SKIP BACK TO;

Rafter Installation - Page 5.1

RAFTER INSTALLATION (EQUAL & UNEQUAL RETURN GABLE)

VALLEY RAFTER BRACKET INSTALLATION

Place the Valley-to-Corner Bracket at the internal corner so that the locating tabs on the bracket are hooked over the Valley-to-Corner Brackets and in the channels of both Beam Caps. Align pilot holes of the Valley-to-Corner Bracket and the Valley-to-Internal Corner Plate.

Fix the Valley-to-Corner Bracket to the Valley-to-Internal-Corner Plate using Outback Self-Drilling Screws through the pilot holes provided (Figures 15.23 to 15.28).

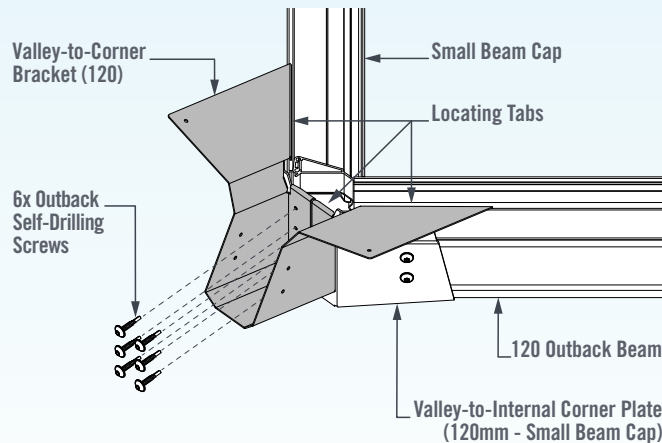


FIGURE 15.23 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

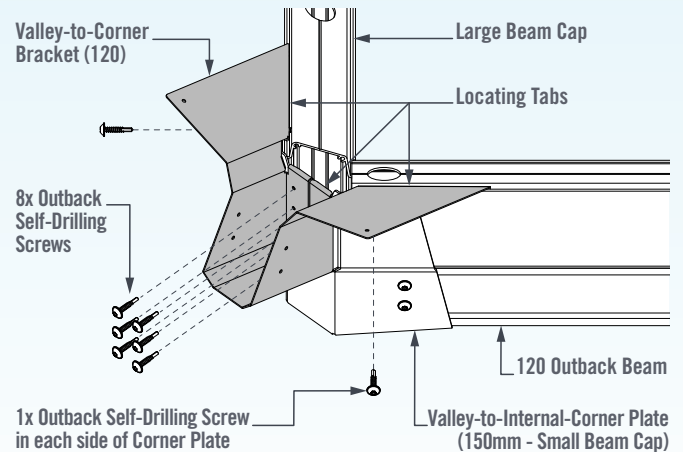


FIGURE 15.26 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

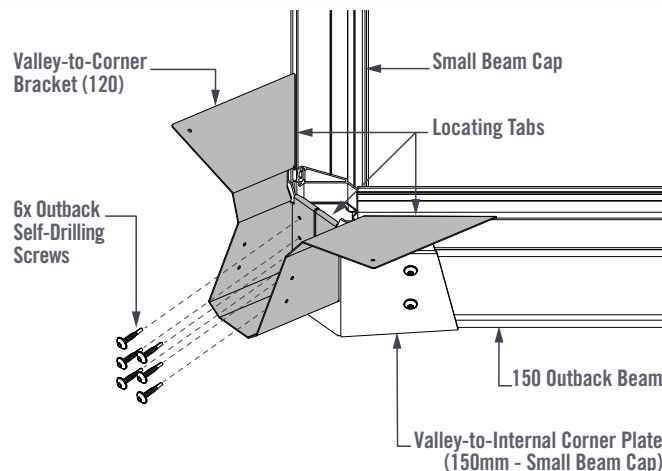


FIGURE 15.24 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

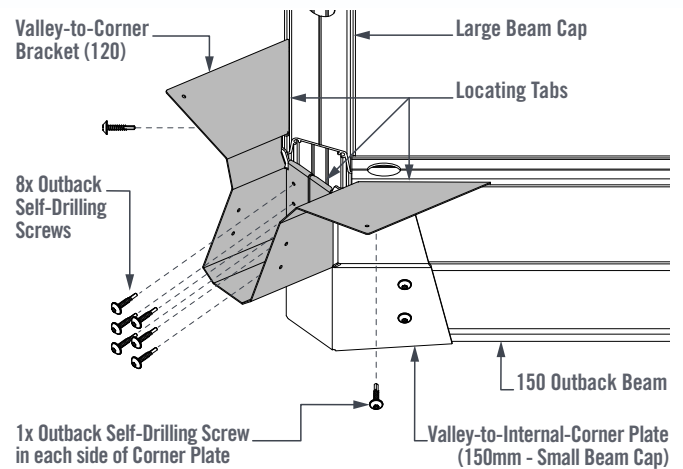


FIGURE 15.27 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

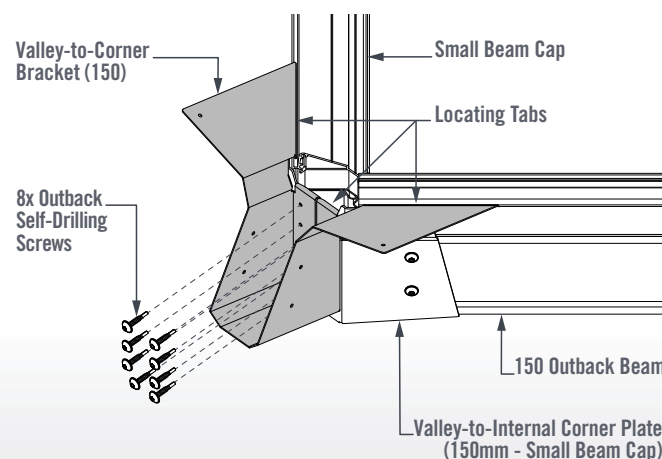


FIGURE 15.25 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

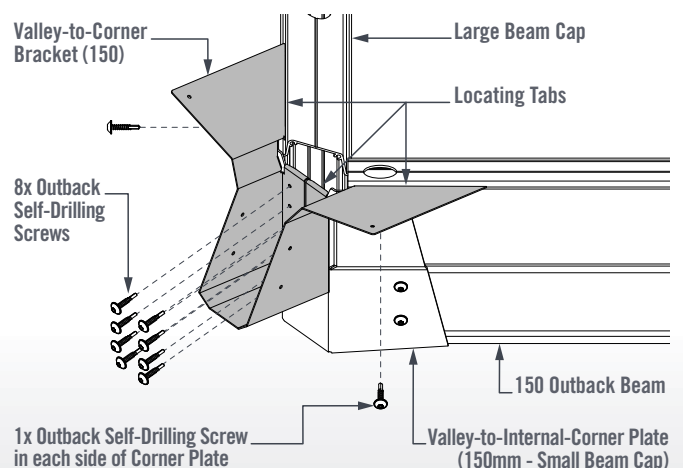


FIGURE 15.28 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

HIP RAFTER BRACKET INSTALLATION (EQUAL RETURN GABLE & HIP END GABLE)

Place the Hip-to-Corner Bracket within the external corner so that the locating tabs on the bracket are hooked in the channels of both Beam Caps.

Fix the Hip-to-Corner Bracket to Side Beams and Beam Caps using Outback Self-Drilling Screws through the pilot holes provided (Figures 15.29 to 15.34).

When Large Beam Caps are being used, fit an External Corner Cap over the corner to cover the gap left between Beam Caps (Figures 15.32 to 15.34).

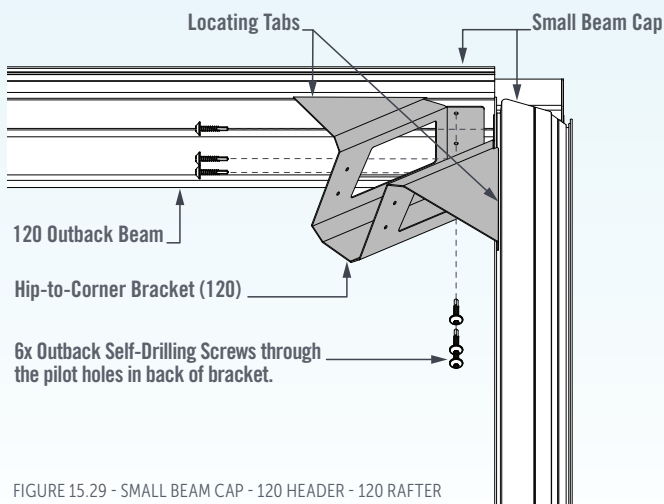


FIGURE 15.29 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

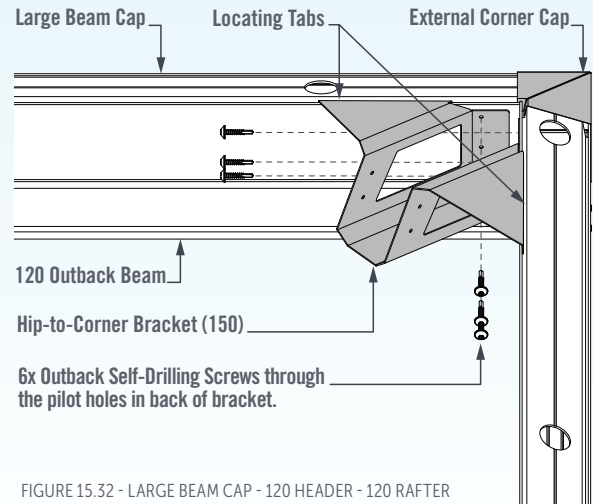


FIGURE 15.32 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

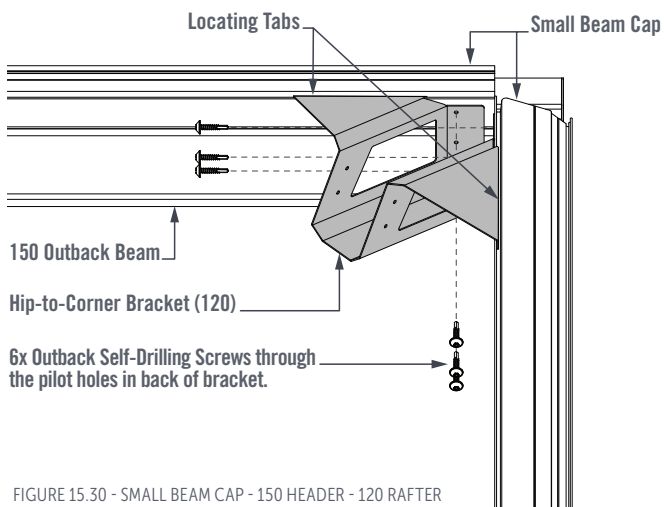


FIGURE 15.30 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

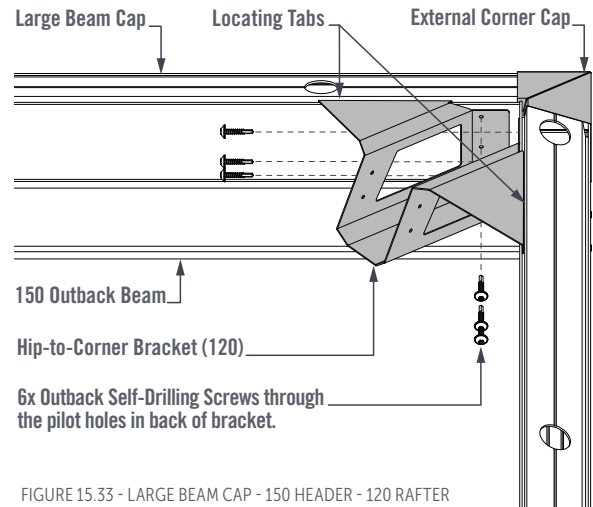


FIGURE 15.33 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

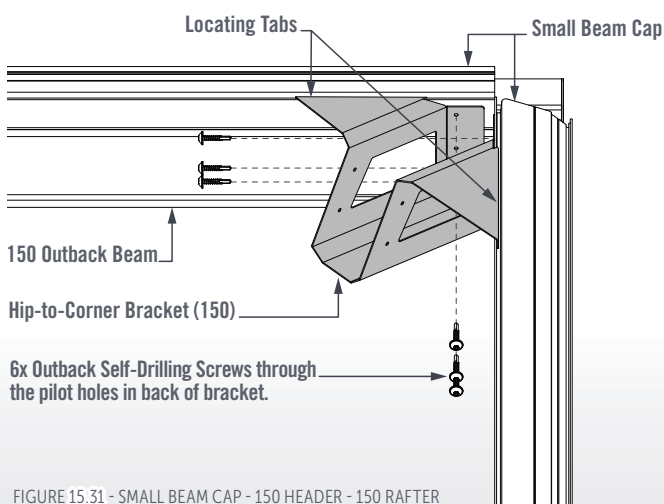


FIGURE 15.31 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

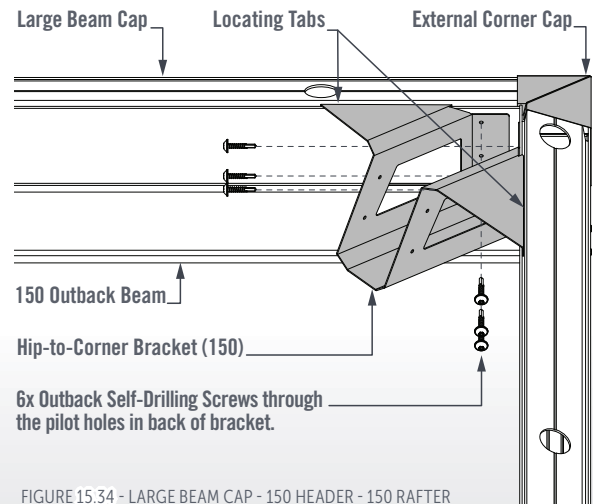
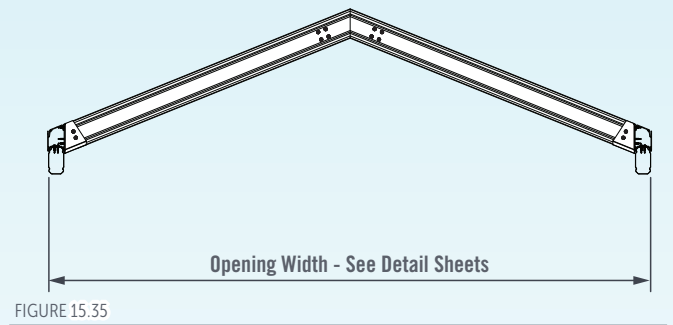


FIGURE 15.34 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

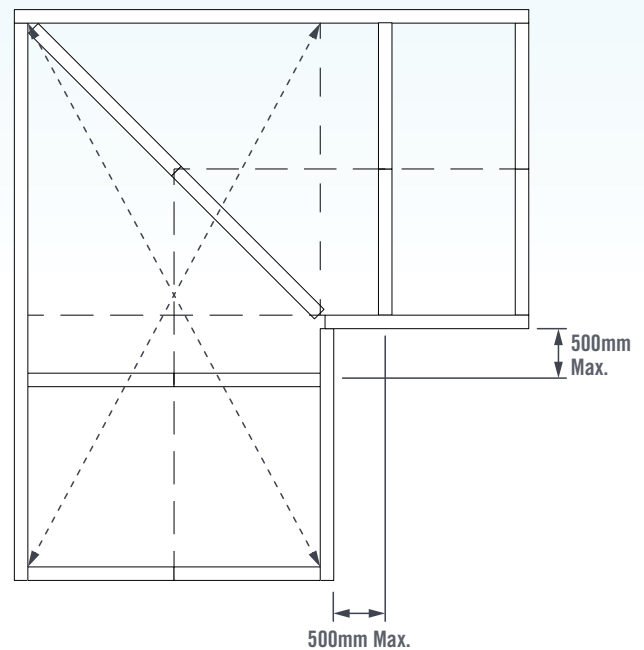
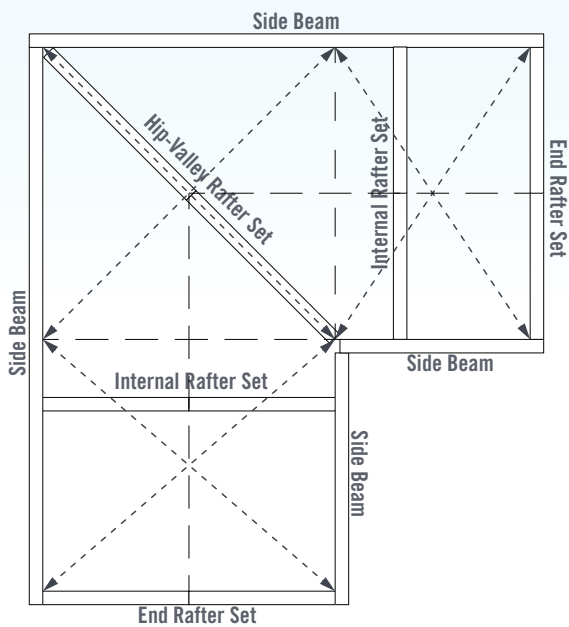
HIP-VALLEY RAFTER SET INSTALLATION

Lift the pre-assembled Hip-Valley Rafter Set into both the Hip-to-Corner Bracket and the Valley-to-Corner Bracket ensuring the Rafter is fully seated in the bottom of each bracket.

Before fixing the Hip-Valley Rafters in-place check the opening widths of the unit are correct according to the Detail Sheets provided (Figure 15.35).



Check that the framework is square on an Equal Return unit by ensuring the diagonal measurements of each section are the same (Figure 15.36 & 15.37).



HIP-VALLEY RAFTER SET INSTALLATION

(HIP RAFTER)

Fix the Hip Rafter using 2x Outback Self-Drilling Screws through the pilot holes in each side of each Hip-to-Corner Bracket (Figures 15.38 to 15.43).

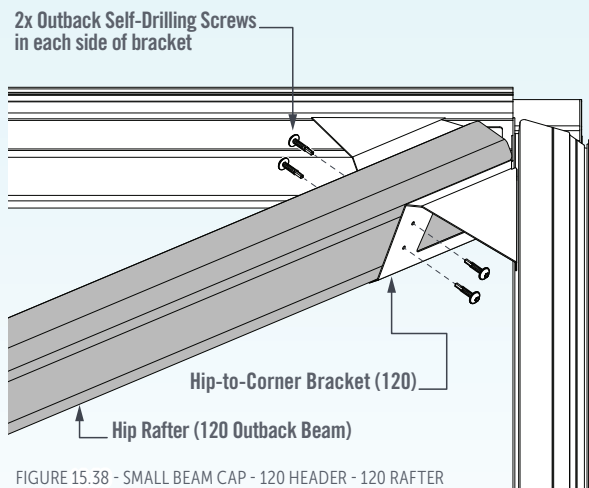


FIGURE 15.38 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

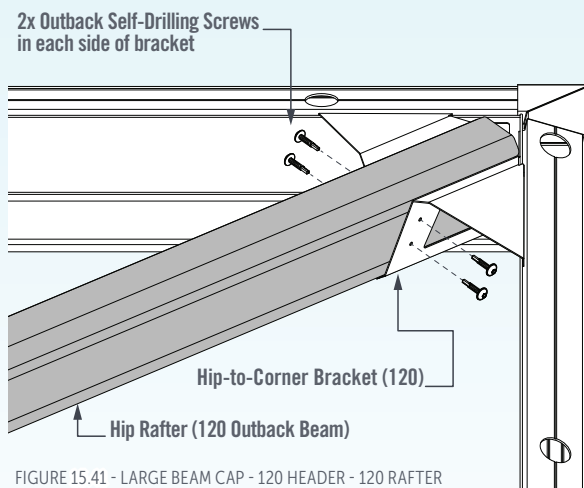


FIGURE 15.41 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

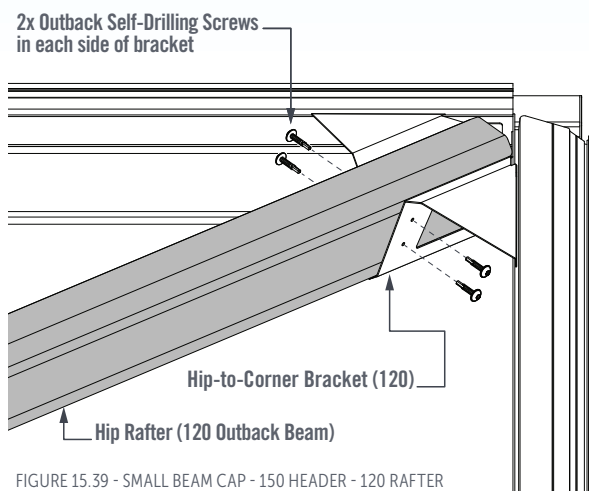


FIGURE 15.39 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

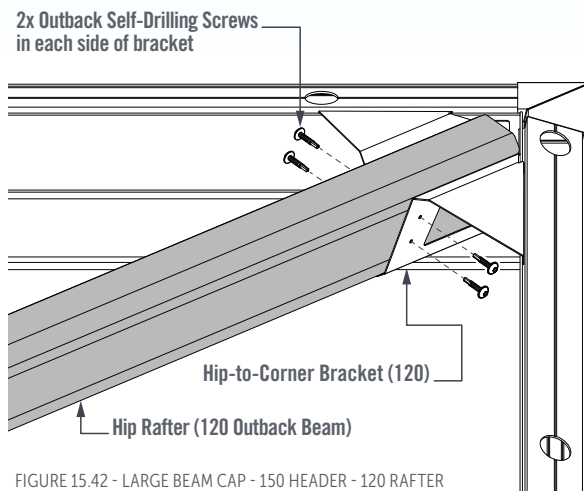


FIGURE 15.42 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

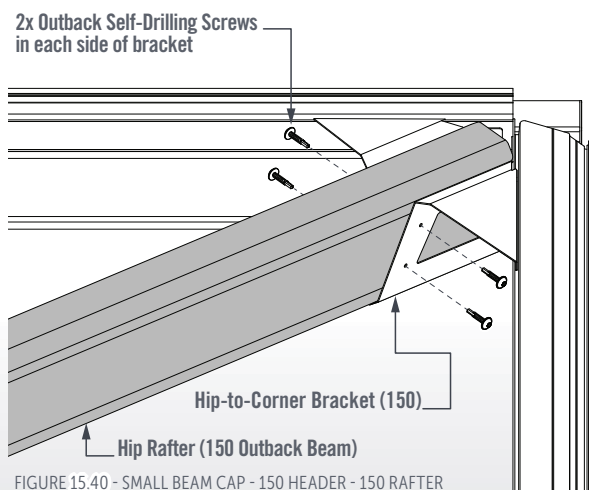


FIGURE 15.40 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

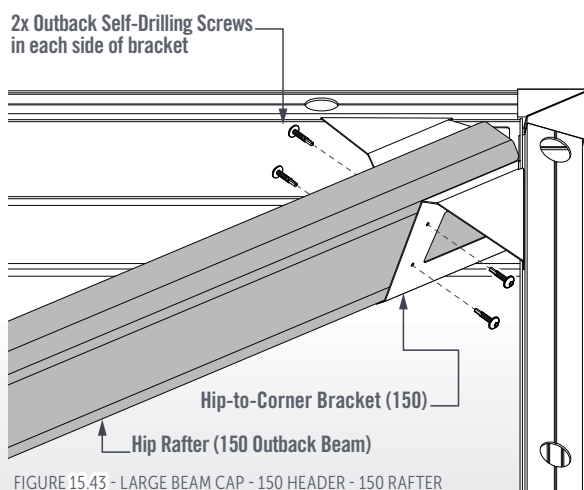


FIGURE 15.43 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

HIP-VALLEY RAFTER SET INSTALLATION

(VALLEY RAFTER)

Fix the Valley Rafter using 2x Outback Self-Drilling Screws through the pilot holes in each side of each Valley-to-Corner Bracket (Figures 15.44 to 15.49).

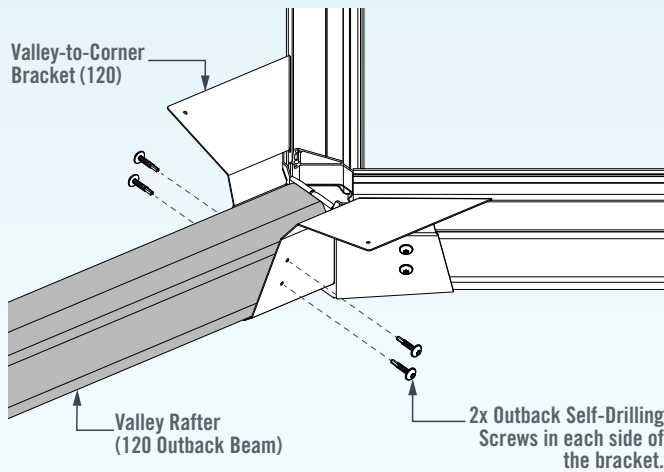


FIGURE 15.44 - SMALL BEAM CAP - 120 HEADER - 120 RAFTER

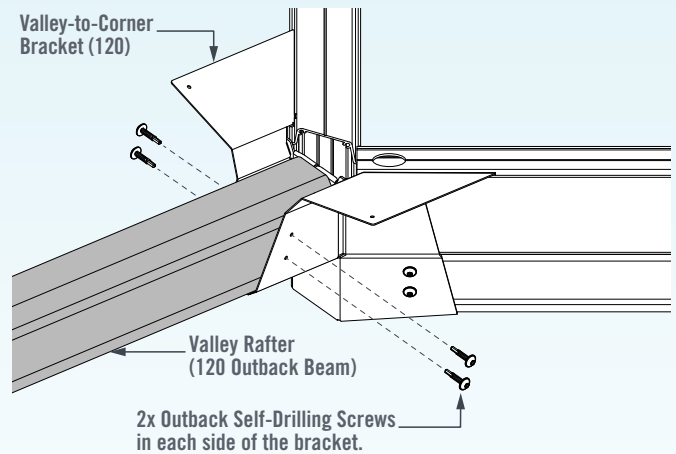


FIGURE 15.47 - LARGE BEAM CAP - 120 HEADER - 120 RAFTER

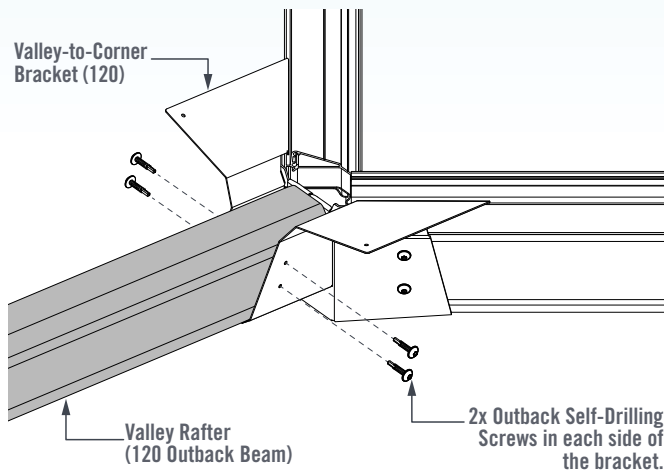


FIGURE 15.45 - SMALL BEAM CAP - 150 HEADER - 120 RAFTER

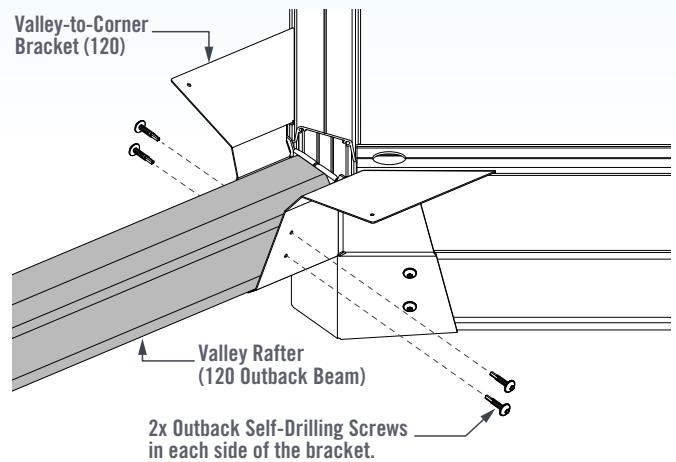


FIGURE 15.48 - LARGE BEAM CAP - 150 HEADER - 120 RAFTER

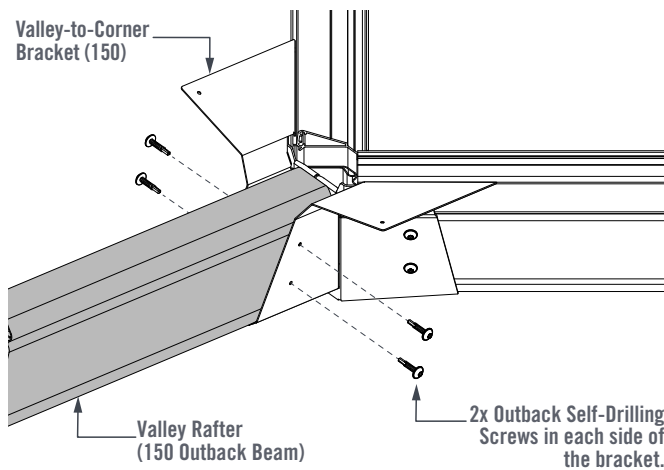


FIGURE 15.46 - SMALL BEAM CAP - 150 HEADER - 150 RAFTER

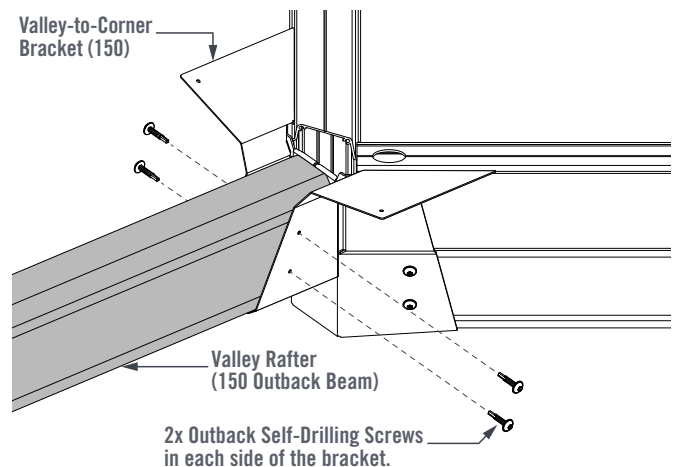


FIGURE 15.49 - LARGE BEAM CAP - 150 HEADER - 150 RAFTER

SKIP BACK TO;

Ridge Installation - Page 6.1

RIDGE INSTALLATION

HIP-VALLEY RIDGE BEAM

Measure the Beams to ensure the correct lengths are being used.

Place the Ridge Beams in the 45° LH and RH Ridge-to-Rafter Brackets (Figure 15.50).

Ensure the Ridge Beams are fully seated in the bottom of the Ridge-to-Rafter Brackets.

Use clamps to secure the Ridge Beams if required.

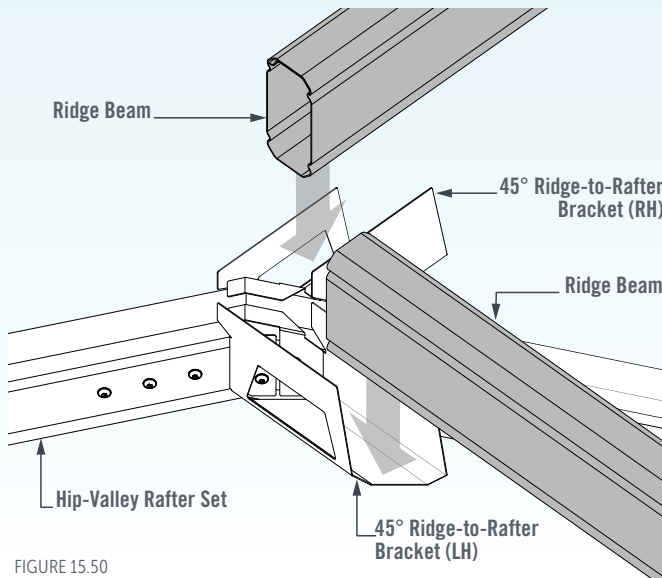


FIGURE 15.50

HIP-TO-APEX & VALLEY-TO-APEX SUPPORTS

Position the Hip-to-Apex Support on top of the Hip Rafter with locating tabs hooking over both of the 45° Ridge-to-Rafter Brackets (Figure 15.51).

Position the Valley-to-Apex Support on top of the Valley Rafter so that it is up against the 45° Ridge-to-Rafter Brackets (Figure 15.51).

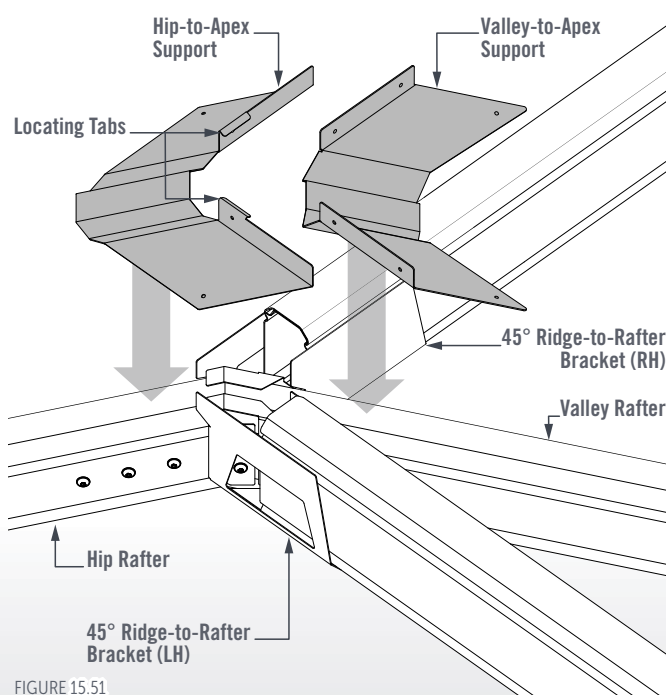


FIGURE 15.51

HIP-VALLEY RIDGE EXTRUSION

Trim the corners of the Ridge Extrusions where they meet at the Valley Rafter (Figure 15.52)

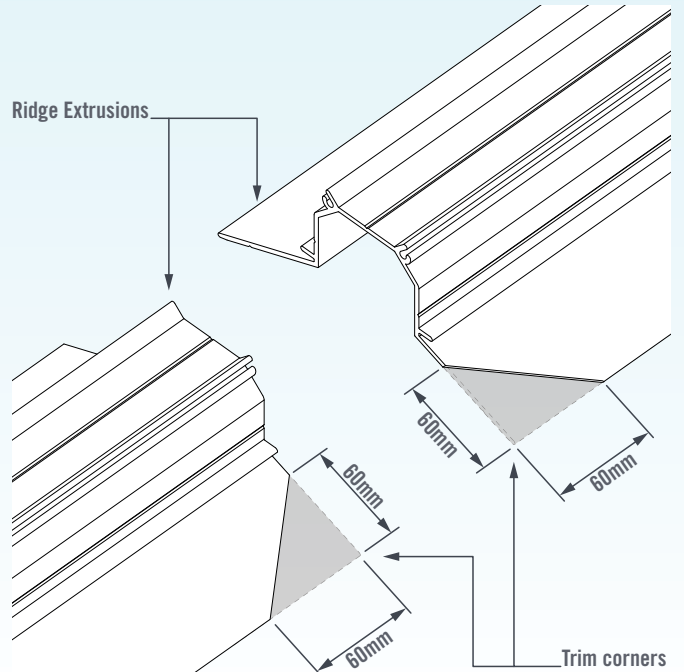


FIGURE 15.52

Place each trimmed Ridge Extrusion on top of the Ridge Beams with the trimmed corners on the Valley side of the ridge (Figure 15.53).

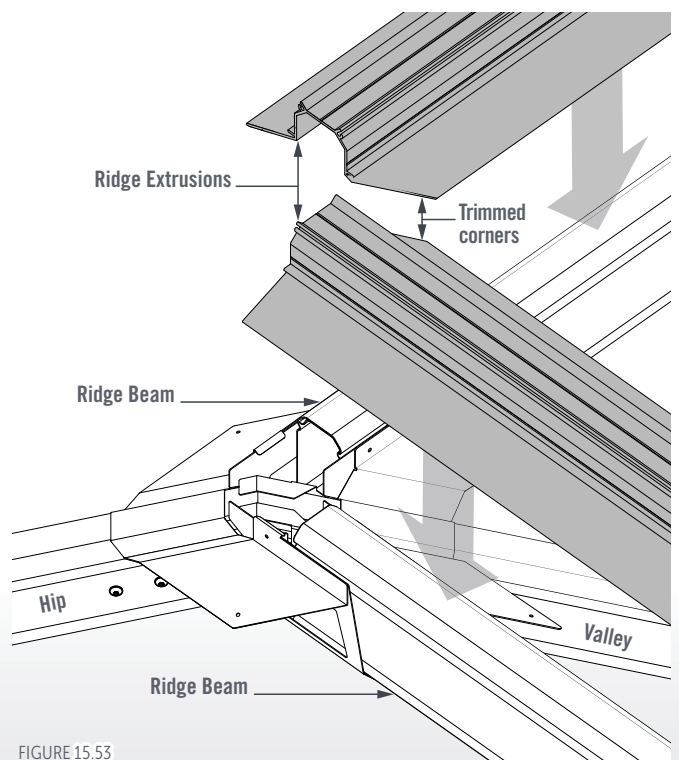


FIGURE 15.53

Push the Ridge Extrusions down firmly over the top of the Ridge-To-Rafter Bracket and both Apex Support Brackets (Figure 15.54).

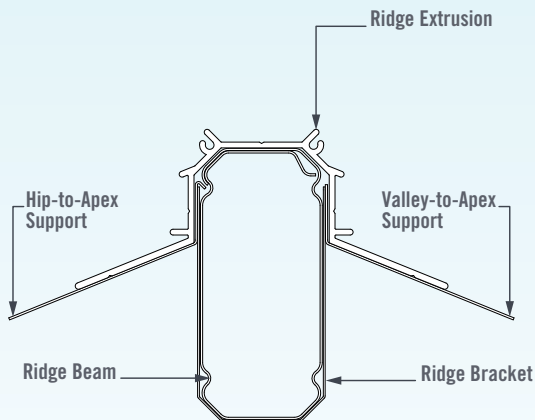


FIGURE 15.54

Fix the Ridge Extrusion to the Ridge Beam using 4x Outback Self-Drilling Screws through each side of the Ridge Extrusion, Ridge-to-Rafter Bracket, and Ridge Beam (Figure 15.55).

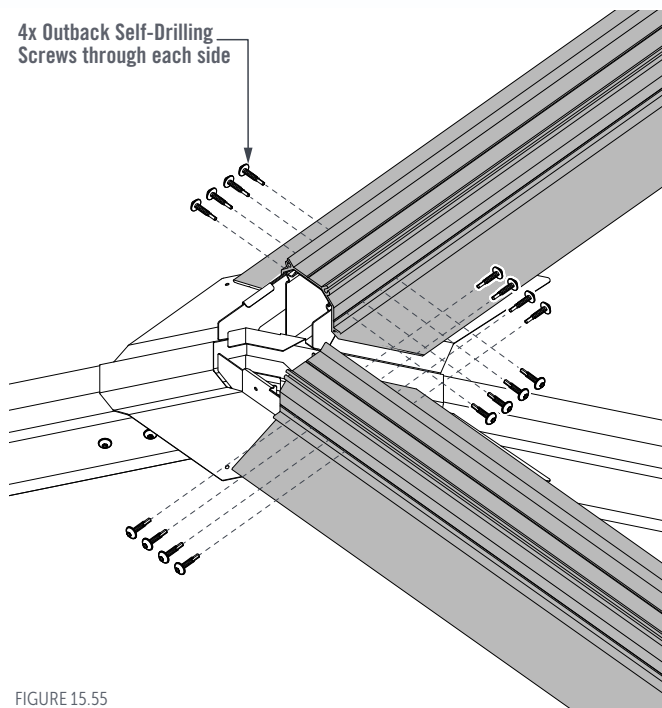


FIGURE 15.55

SKIP BACK TO;

Purlin Installation - Page 7.1

PURLIN INSTALLATION

VALLEY PURLIN BRACKETS

(RETURN UNITS)

Note: Valley Purlin brackets must be installed before the Valley Support Flashing.

Measure and mark locations of the Purlin Bracket on the top face of each rafter ensuring Valley Purlin Brackets align with standard Purlin Brackets.

Refer to the Detail Sheets for the required Purlin placement and dimensions along Rafters.

Fix to the Valley Rafter using 2x Outback Self-Drilling Screws for 68mm Purlins (Figure 15.56) or 4x Outback Self-Drilling Screws for 120mm Purlins (Figure 15.57).

Tip: Mark pilot hole locations on the Rafter and pre-drill with a Ø3.5mm drill bit to assist when fastening Outback Screws.

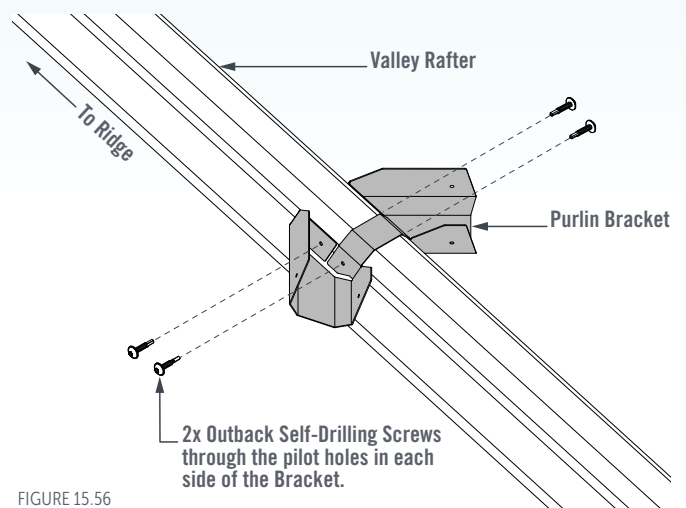


FIGURE 15.56

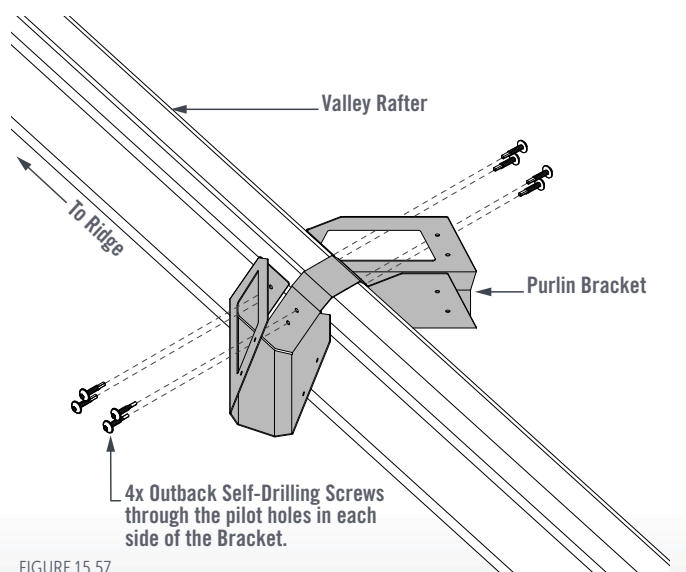


FIGURE 15.57

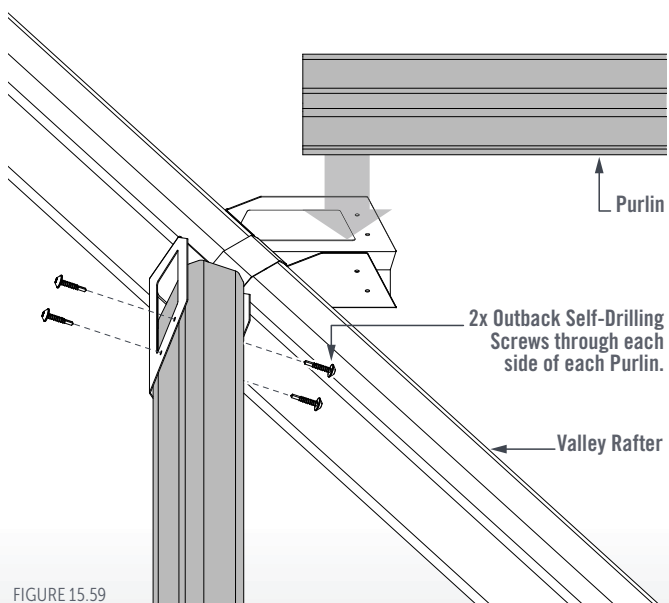
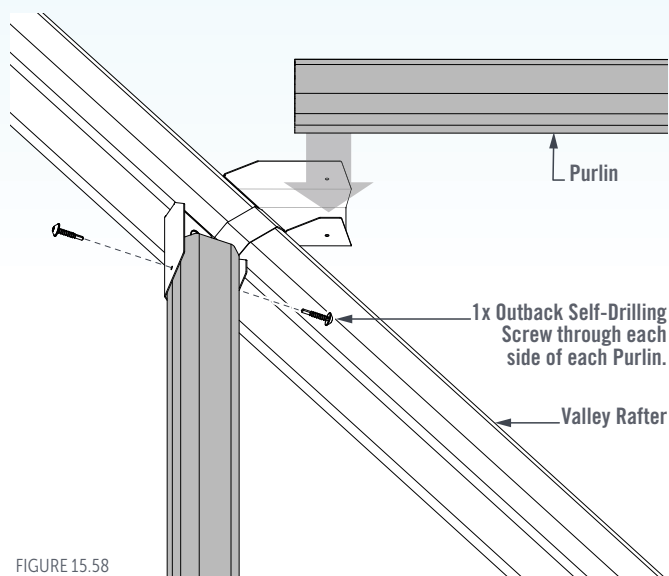
VALLEY PURLIN INSTALLATION (RETURN UNITS)

Note: The Valley Support Flashing must be installed after Valley Purlin installation.

Cut the Purlin to length and place in the Purlin Brackets with the double thickness section of the Purlin facing up, and the seam facing the ridge.

Fix the Purlin through the pilot holes on either side of the bracket using Outback Self-Drilling screws (Figures 15.58 & 15.59).

Tip: Mark pilot hole locations on the Purlin and pre-drill with a Ø3.5mm drill bit to assist when fastening Outback Screws.



HIP PURLIN BRACKETS (RETURN UNITS & HIP END GABLE)

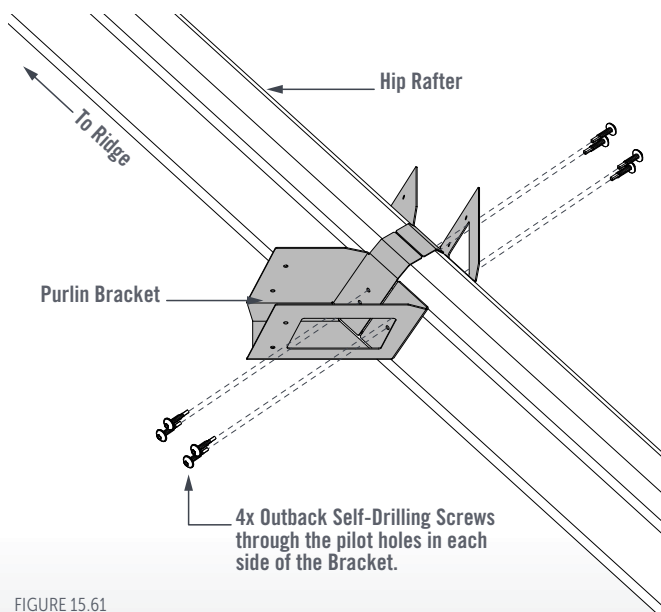
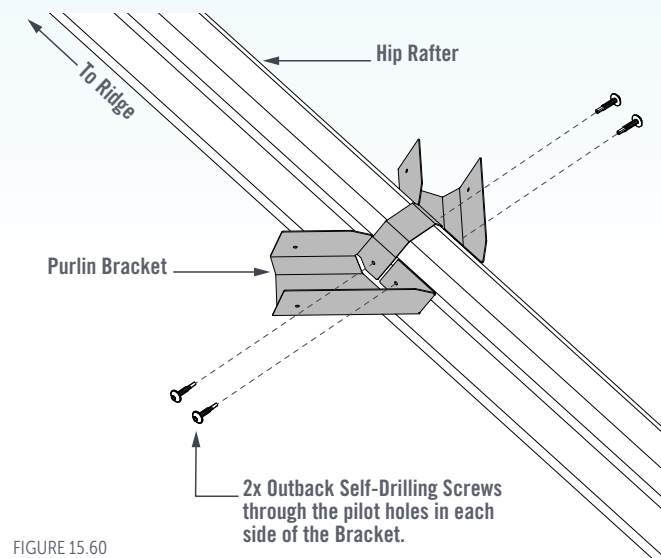
Note: Hip Purlin brackets must be installed before the Hip Support Flashing.

Measure and mark locations of the Purlin Bracket on the top face of the rafter ensuring Hip Purlin Brackets align with Purlin Brackets.

Refer to the Detail Sheets for the required Purlin placement and dimensions along Rafters.

Fix to the Hip rafter using 2x Outback Self-Drilling Screws (Figure 15.60) or 4x Outback Self-Drilling Screws for 120mm Purlins (Figure 15.61).

Tip: Mark pilot hole locations on the Rafter and pre-drill with a Ø3.5mm drill bit to assist when fastening Outback Screws.



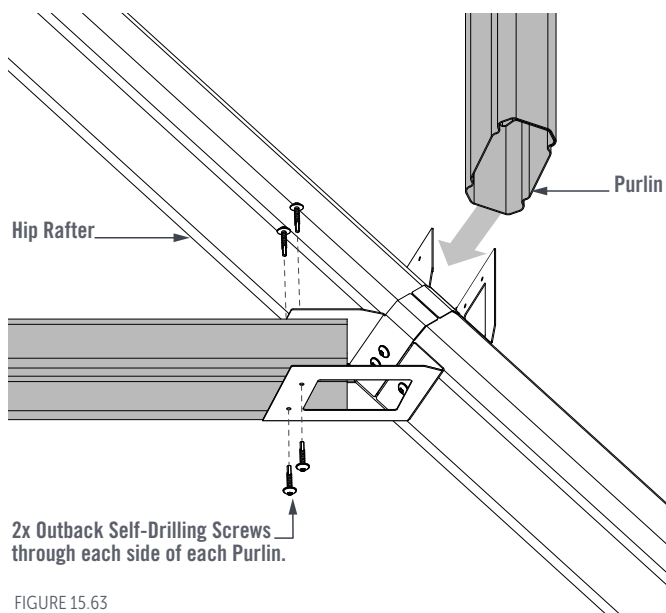
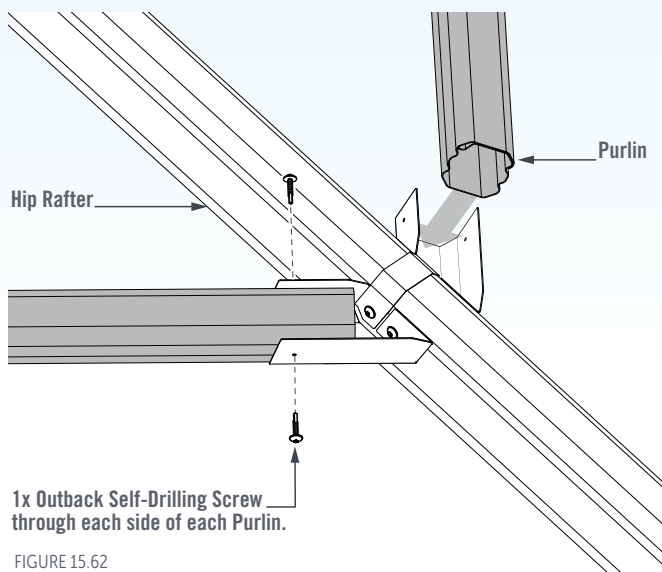
HIP PURLIN INSTALLATION (RETURN UNITS & HIP END GABLE)

Note: The Hip Support Flashing must be installed after Hip Purlin installation.

Cut the Purlin to length and place in the Purlin Brackets with the double thickness section of the Purlin facing up, and the seam facing the ridge.

Fix the Purlin through the pilot holes on either side of the bracket using Outback Self-Drilling Screws (Figure 15.62 or 15.63).

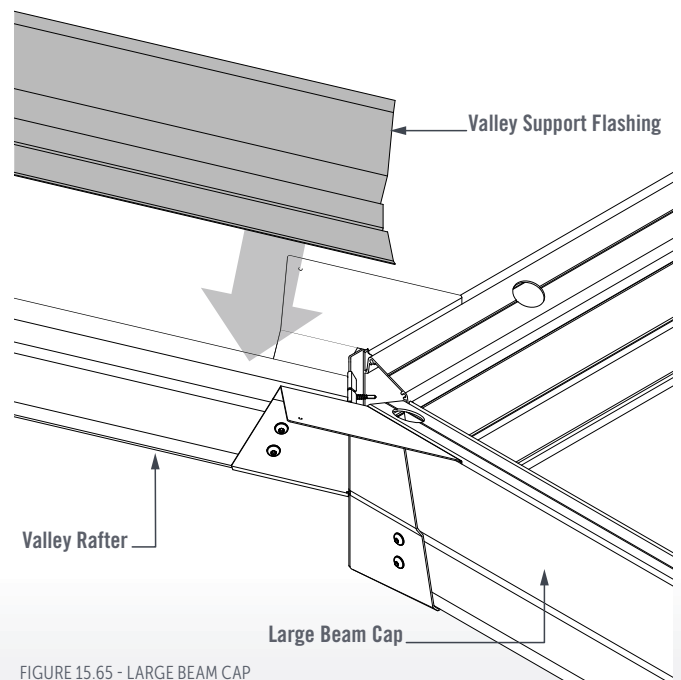
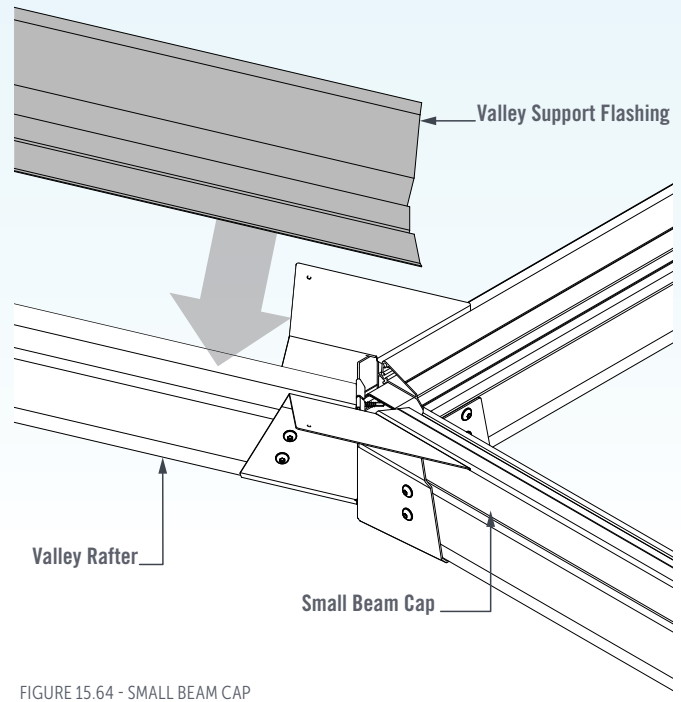
Tip: Mark pilot hole locations on the Purlin and pre-drill with a Ø3.5mm drill bit to assist when fastening Outback Screws.



SKIP BACK TO;
Gutter Installation - Page 8.1

HIP - VALLEY RAFTER PREPARATION VALLEY SUPPORT FLASHING

Position the Valley Support Flashing on the Valley Rafter so that it rests atop the Valley-to-Corner Bracket at the Gutter end of the Valley Rafter (Figures 15.64 & 15.65) and the Valley-to-Apex Support at the Ridge end of the Valley Rafter (Figure 15.66).



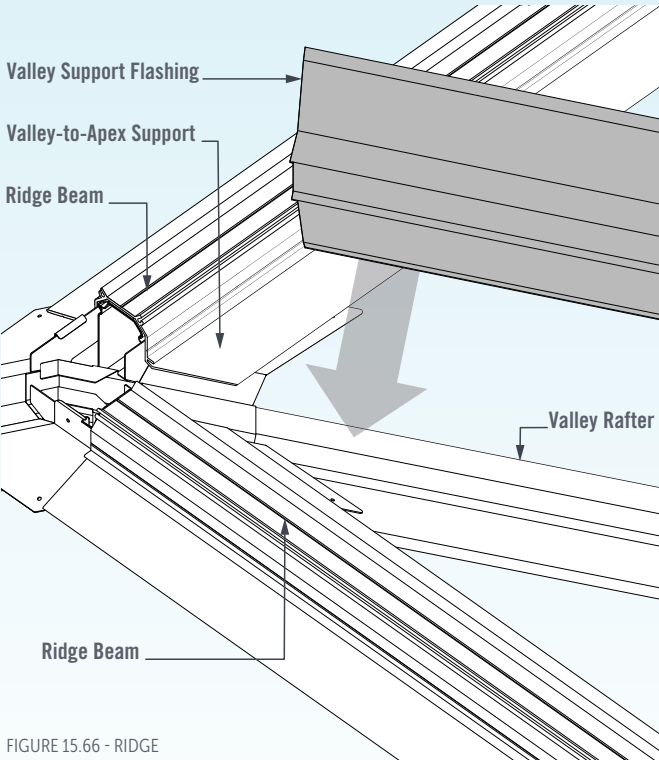


FIGURE 15.66 - RIDGE

Ensure the top end of the Valley Support Flashing fully overlaps the Valley-to-Apex Support at the ridge (Figure 15.67).

Fix the Valley Support Flashing to the Valley Rafter using Outback Self-Drilling Screws at maximum 500mm centres (Figures 15.67 to 15.69).

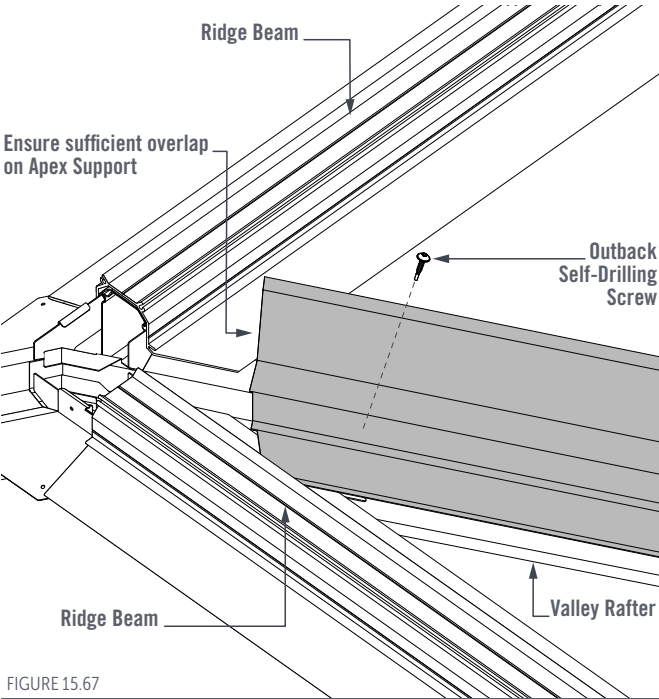


FIGURE 15.67

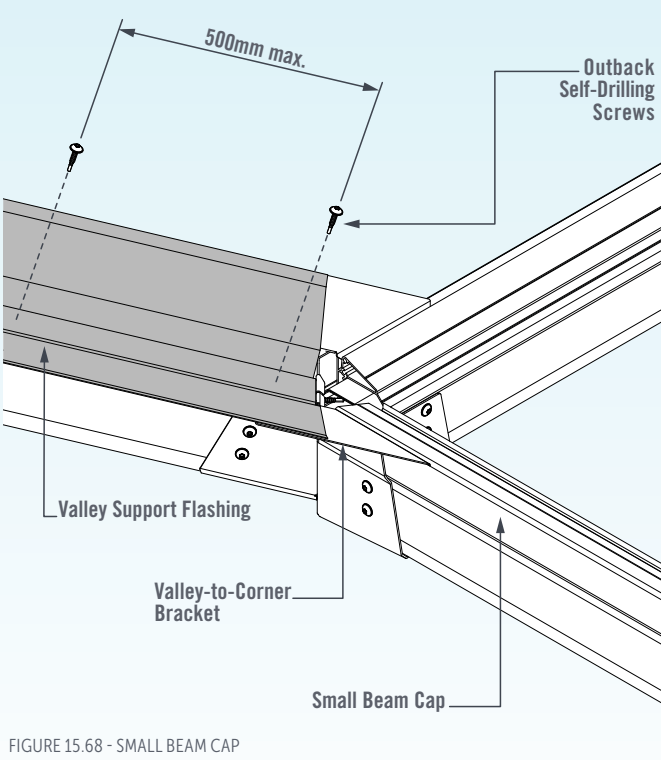


FIGURE 15.68 - SMALL BEAM CAP

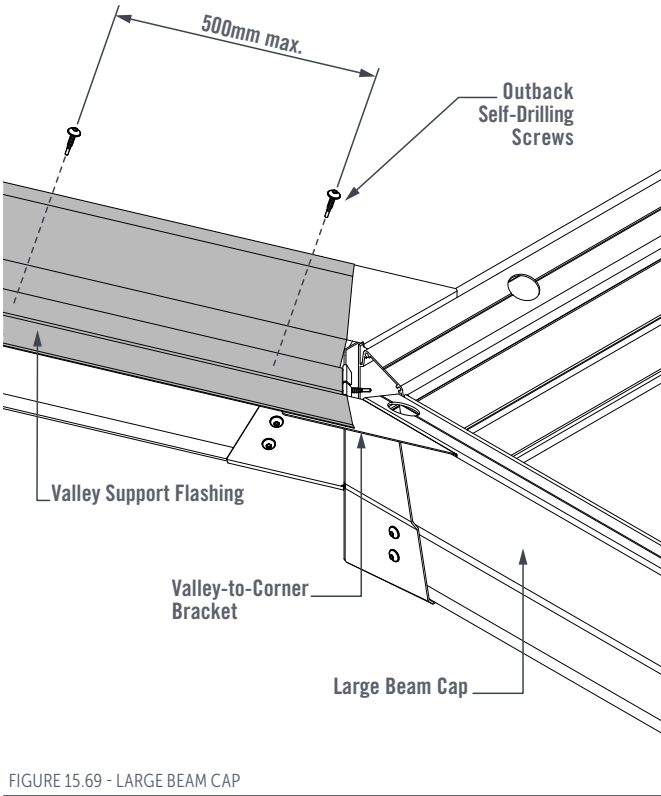
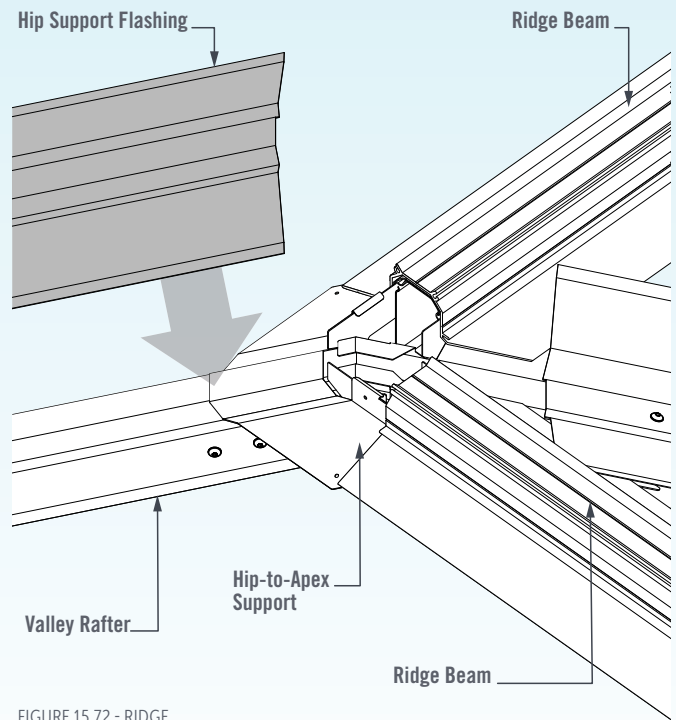
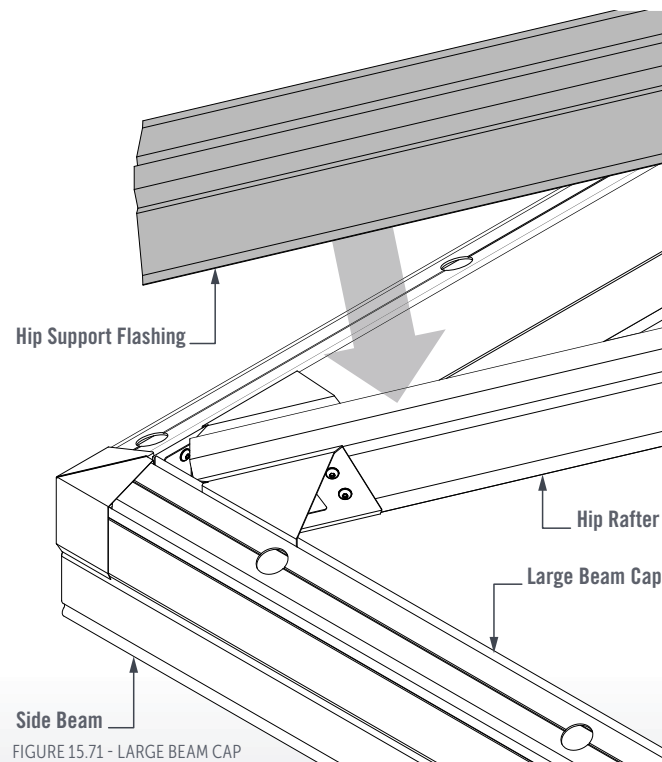
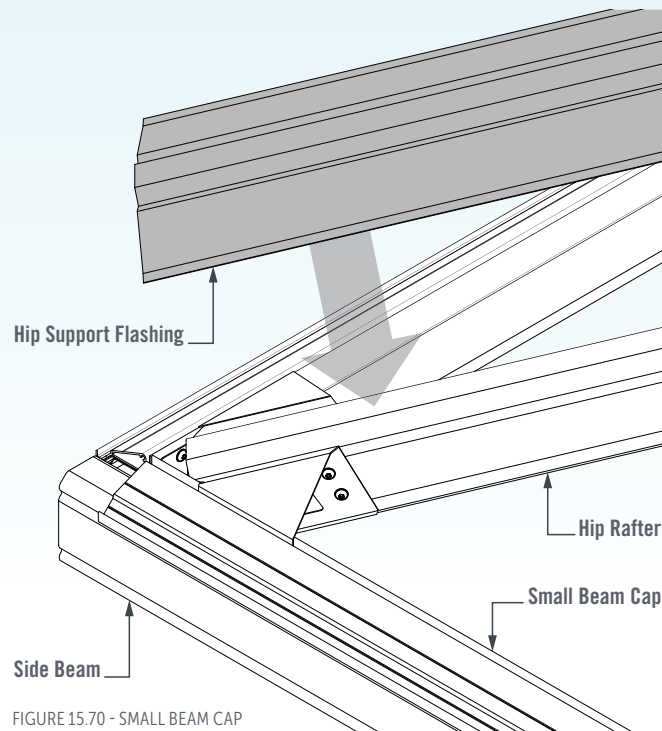


FIGURE 15.69 - LARGE BEAM CAP

HIP SUPPORT FLASHING

Position the Hip Support Flashing on the Hip Rafter so that it rests atop the Hip-to-Corner Bracket at the Gutter end of the Hip Rafter (Figures 15.70 & 15.71) and the Hip-to-Apex Support at the Ridge end of the Hip Rafter (Figure 15.72).

Do not fix the Hip Support Flashing to the Rafter yet.

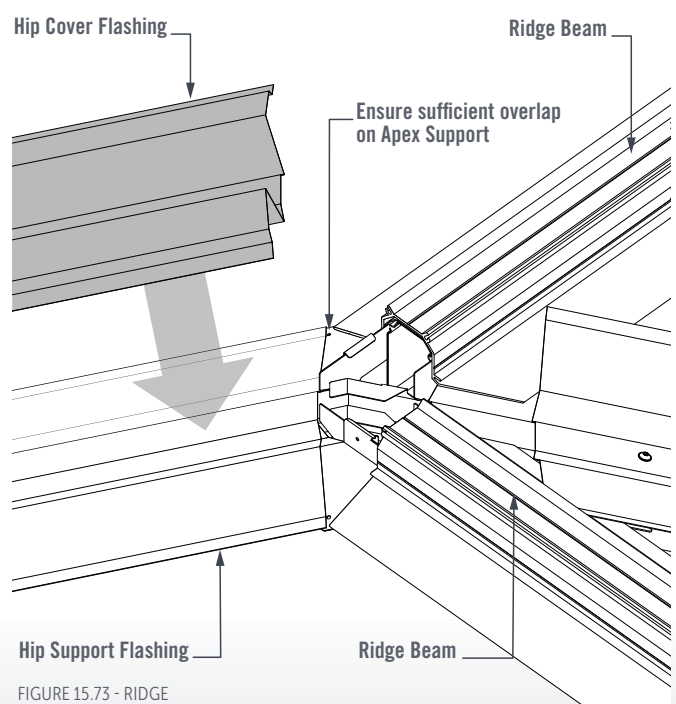


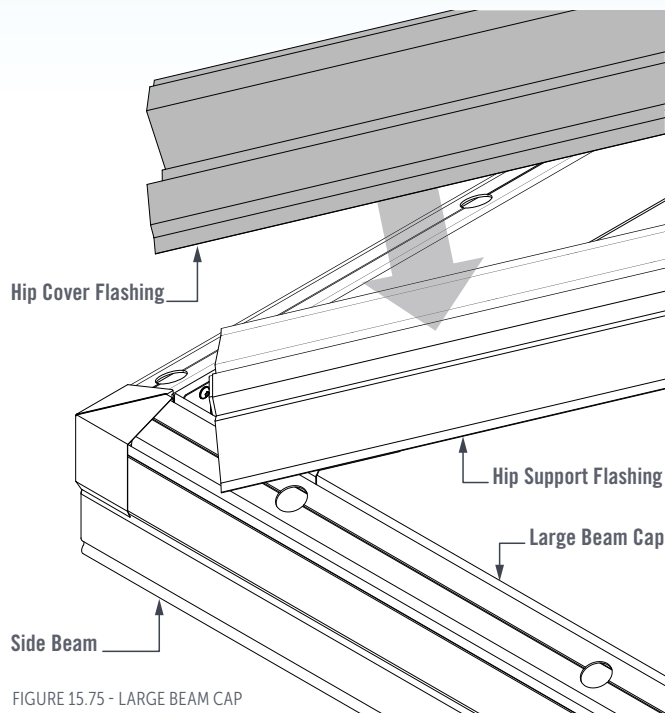
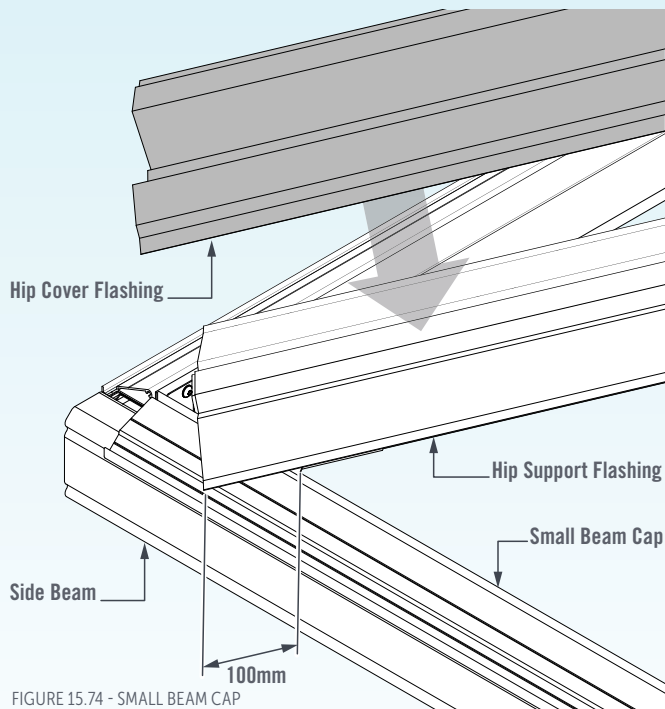
HIP COVER FLASHING

Hip Cover Flashings will be supplied to accommodate the selected Roof type. The Hip Cover Flashing is used to further secure the Hip Rafter and Roof Deck.

Ensure there is sufficient overlap of the Hip Support Flashing onto the Hip-to-Apex Support (Figure 15.73).

Position the Hip Cover Flashing on top of the Hip Support Flashing (Figures 15.74 & 15.75).

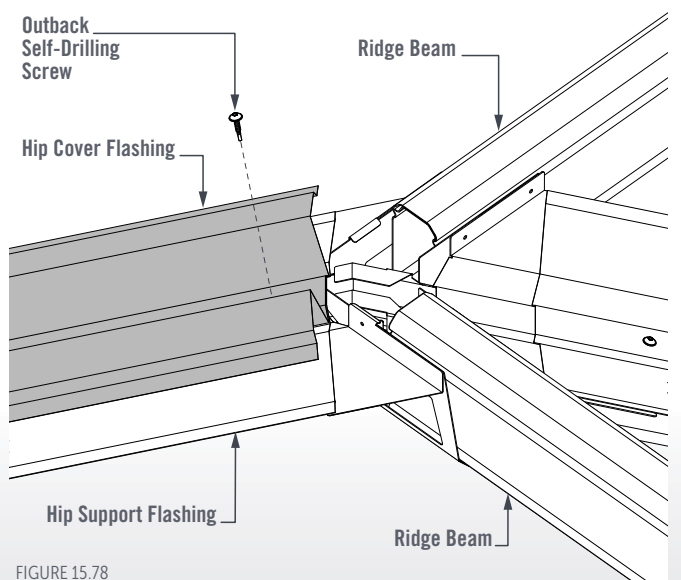
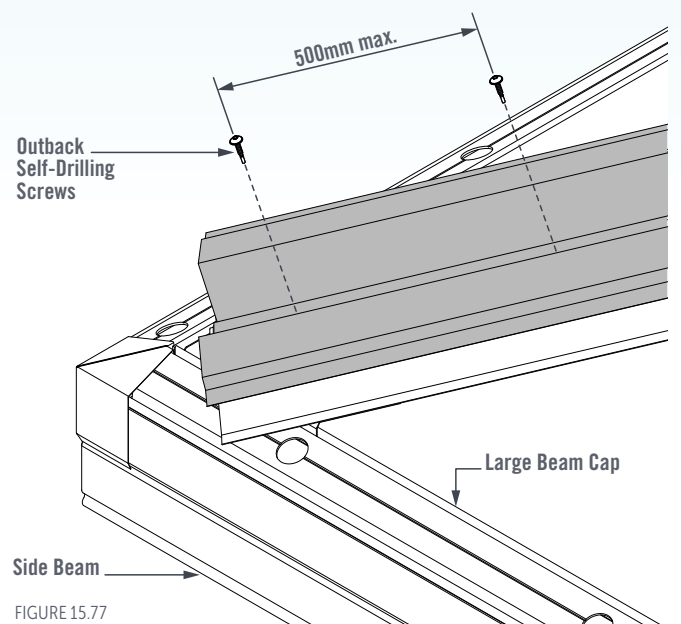
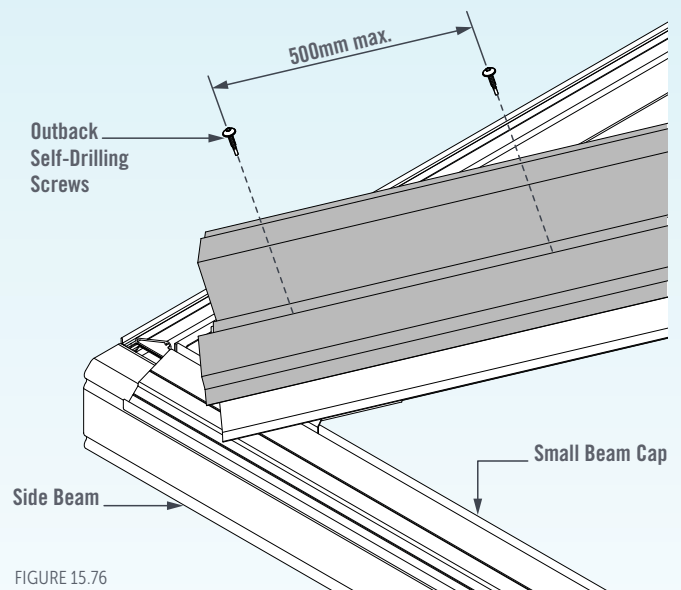




Ensure the Hip Cover Flashing and Hip Support Flashing are nested over each other and resting flat on the Hip Rafter.

Fix the Hip Cover Flashing to both the Hip Support Flashing and the Hip Rafter using Outback Self-Drilling Screws at 500mm centres (Figures 15.76 to 15.78).

Refer to Figures 15.79 to 15.84 on the following page for further detail.



Note: Each roof decking type has a specific Hip Cover Flashing (Figures 15.79 to 15.84)

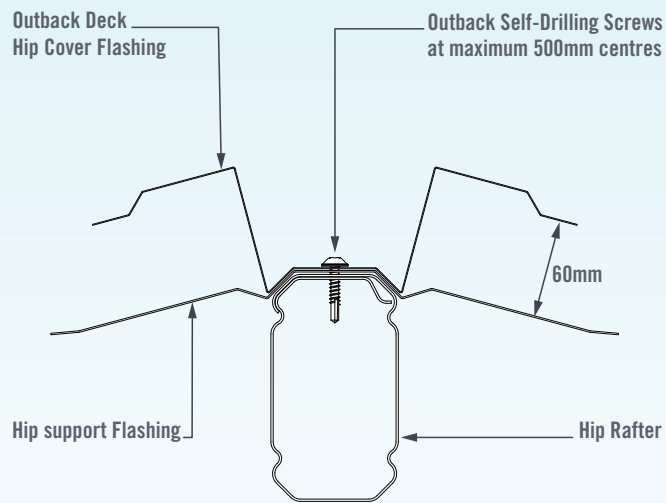


FIGURE 15.79

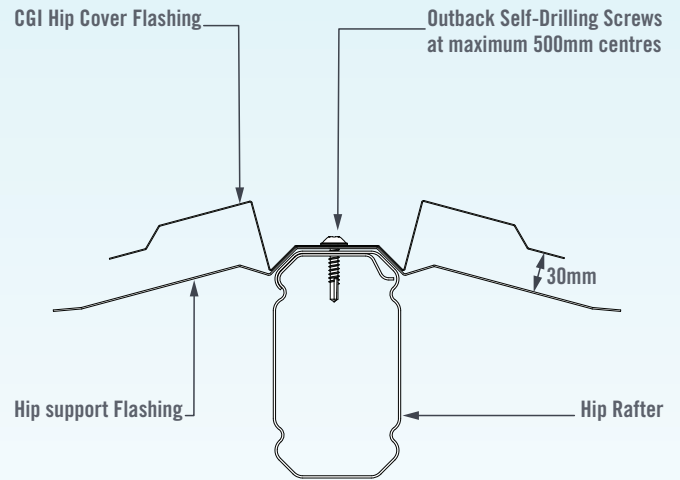


FIGURE 15.82

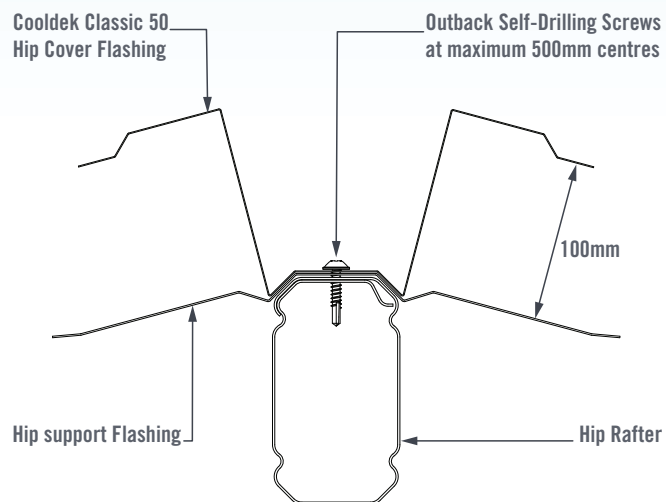


FIGURE 15.80

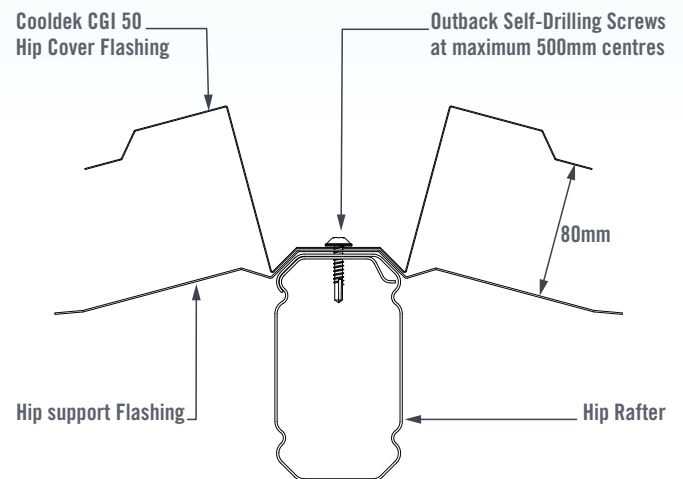


FIGURE 15.83

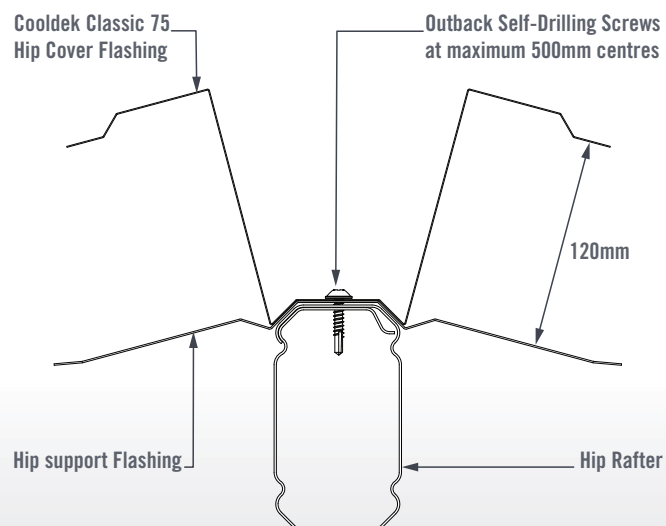


FIGURE 15.81

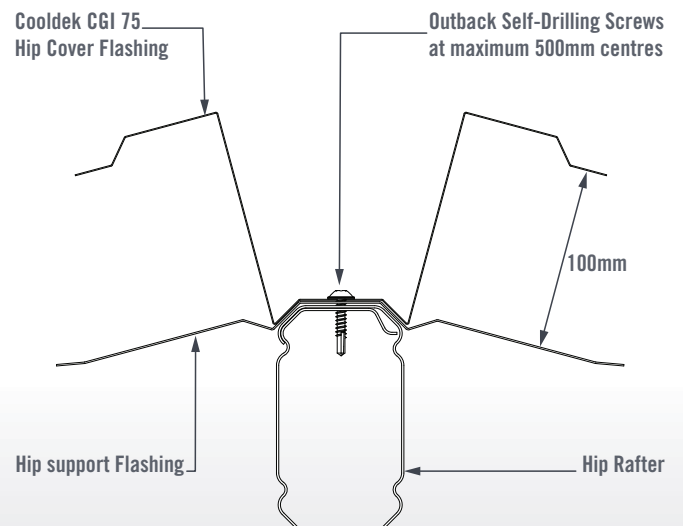


FIGURE 15.84

VALLEY GUTTER INSTALLATION

Valley Gutters sit atop Valley Support Flashings.

OUTBACK DECK & CGI VALLEY GUTTER

Measure, mark, and cut the corners off the Valley Gutter at the Ridge end so it sits flush against the Ridge Beams (Figure 15.86). Measure, mark, and cut the Gutter end of the Valley Gutter ensuring the trough overhangs 50mm past the Beam Cap into the Gutter (Figure 15.87).

Position the Valley Gutter on the Valley Support Flashing but do not fix in-place yet.

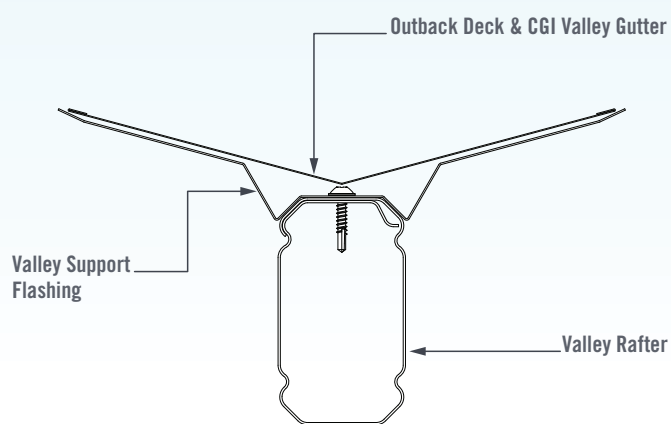


FIGURE 15.85

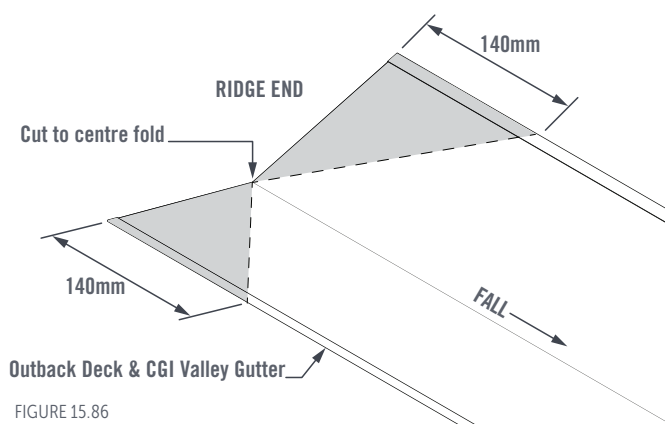


FIGURE 15.86

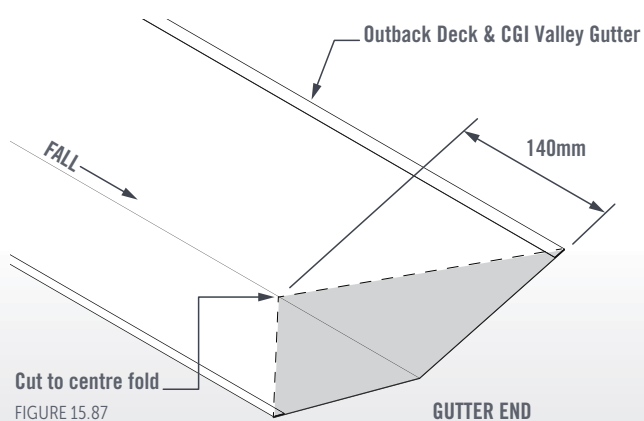


FIGURE 15.87

COOLDEK VALLEY GUTTER

Measure, mark, and cut the corners off the Valley Gutter at the Ridge end so that it sits flush against the Ridge Beams (Figure 15.89).

Measure, mark, and cut the Gutter end of the Cooldek Valley Gutter ensuring the trough overhangs 50mm past the Beam Cap into the Gutter (Figure 15.90).

The sides of the Valley Gutter will need to be trimmed back to ensure the Valley Gutter flows over the Cutback Flashing and into the Gutter (Figure 15.90).

Position the Valley Gutter on the Valley Support Flashing but do not fix in-place yet.

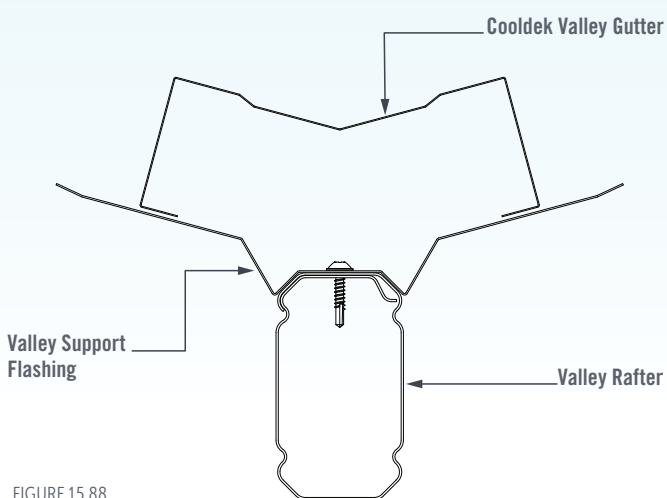


FIGURE 15.88

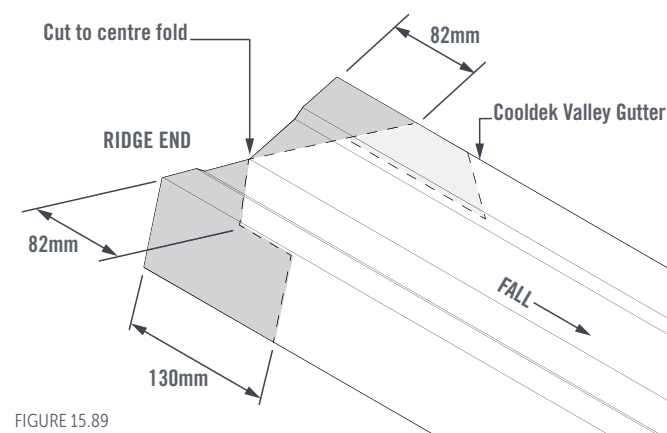


FIGURE 15.89

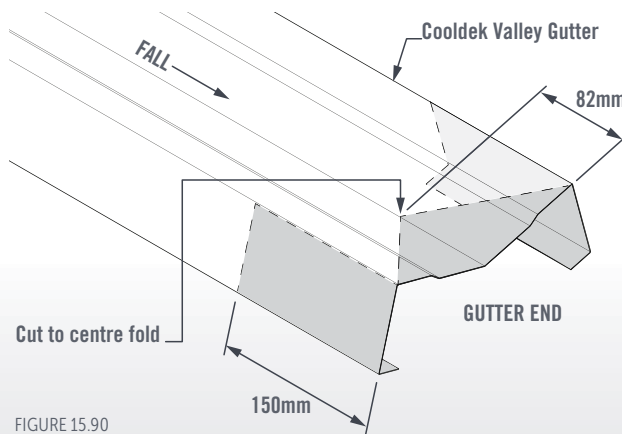


FIGURE 15.90

INTERNAL GUTTER MITRES (VALLEY SECTIONS)

For an internal Gutter corner (at the Valley on the unit), use the template provided in the Outback Edge 160 Mitring Guide to mark-out and cut a 45° mitre on the adjoining Gutters (Figure 15.91).

Outback Edge 160 Gutter mitre guide can be found at Stratco.com.au.

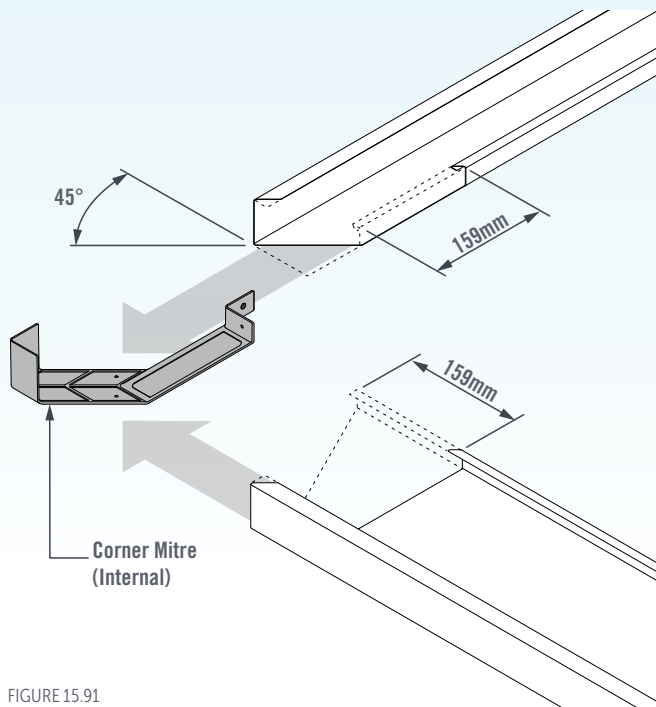


FIGURE 15.91

Fix the Internal Mitre to the Gutters using Ø3.2mm sealed rivets through the pilot holes, and seal inside the Gutter with silicone (Figure 15.92).

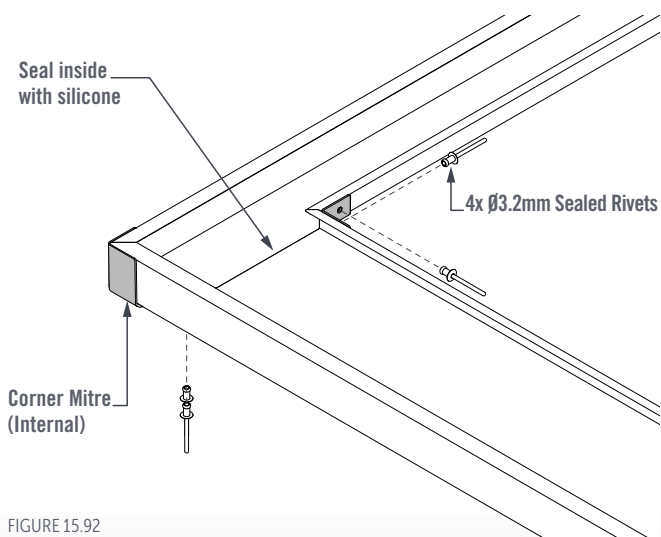


FIGURE 15.92

EXTERNAL GUTTER MITRES (HIP SECTIONS)

For an external Gutter corner (at the hip of the unit), use the template provided in the Outback Edge 160 Mitring Guide to mark-out and cut a 45° mitre on the adjoining Gutters (Figure 15.93).

Outback Edge 160 Gutter mitre guide can be found at Stratco.com.au.

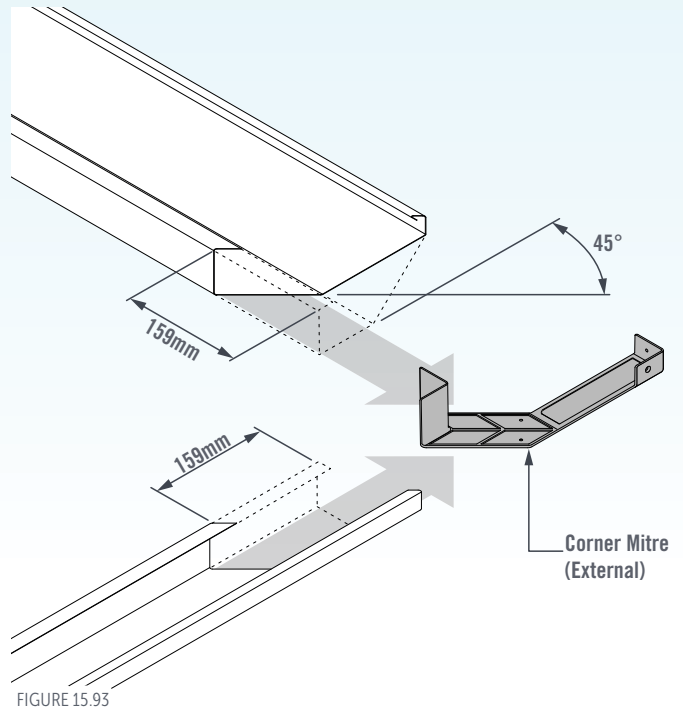


FIGURE 15.93

Fix the External Mitre to the Gutters using Ø3.2mm sealed rivets through the pilot holes, and seal inside the Gutter with silicone (Figure 15.94).

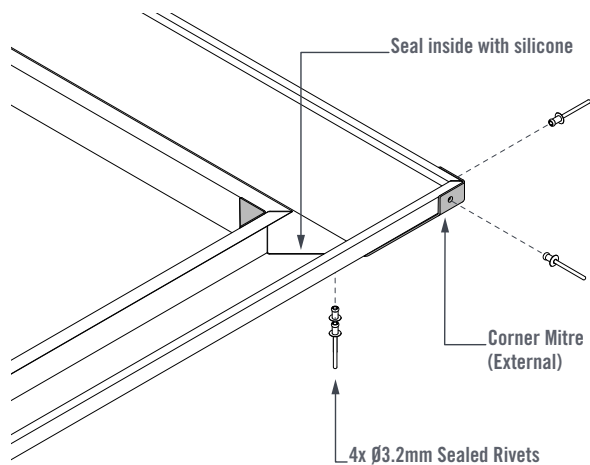


FIGURE 15.94

SKIP BACK TO;

Gutter Preparation - Page 8.3

ROOFING INSTALLATION (RETURN UNITS)

VALLEY RAFTER DECKING PREPARATION

Measure and mark the Roof Deck at a 47° angle from the Side Beam, ensuring correct sheet overlap for the decking type being used (refer to Section 9 - Roofing Installation for further detail).

Cut the Roof Deck and lay the sheets in the regular method for the decking type being used (Figure 15.95).

Cooldek sheets require the bottom sheet and polystyrene to be trimmed back 50mm along the Valley Rafter to allow for the top sheet to overflow into the Valley Gutter (Figure 15.96).

Note: Polycarbonate roofing cannot be used on Valley sections.

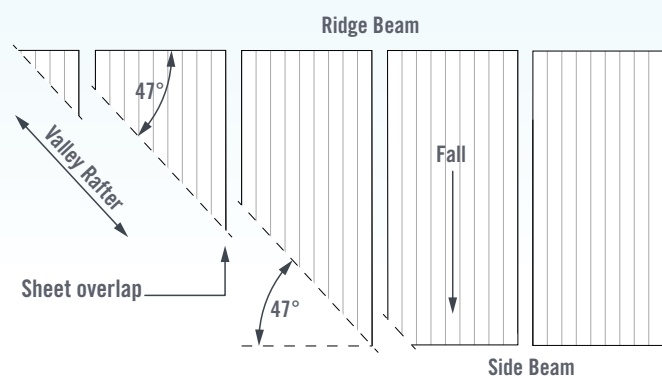


FIGURE 15.95

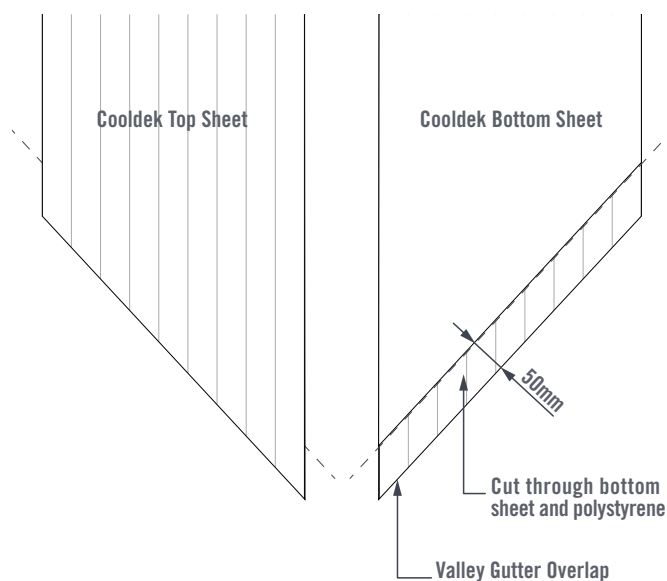


FIGURE 15.96

VALLEY RAFTER

(OUTBACK DECK & CGI)

Outback Deck and CGI sheets are fixed to the Valley Support Flashing and Valley Gutter from the underside using Ø4.8mm (RIV6-4) rivets. Add silicone to the top side of the rivets to prevent any leaking.

Outback Deck rivet fixing details (Figure 15.97).

CGI rivet fixing details (Figure 15.98).

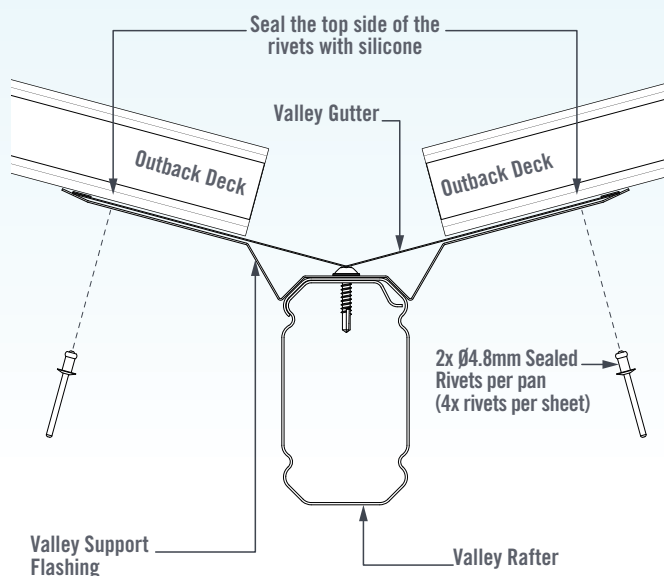


FIGURE 15.97

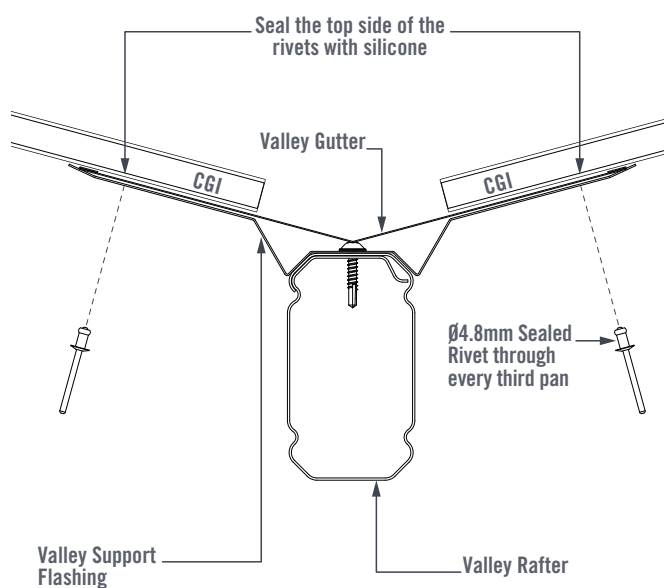


FIGURE 15.98

VALLEY RAFTER

(COOLDEK)

Cooldek is fixed to the Valley Support Flashing from the underside with Ø4.8mm (RIV6-4) rivets at maximum 200mm centres. The top sheet of the Cooldek is pan-fixed to the Valley Gutter using 12g x 20mm Hex Head Self-Drilling screws with neoprene washers at approximately 500mm centres (Figures 15.99 to 15.102).

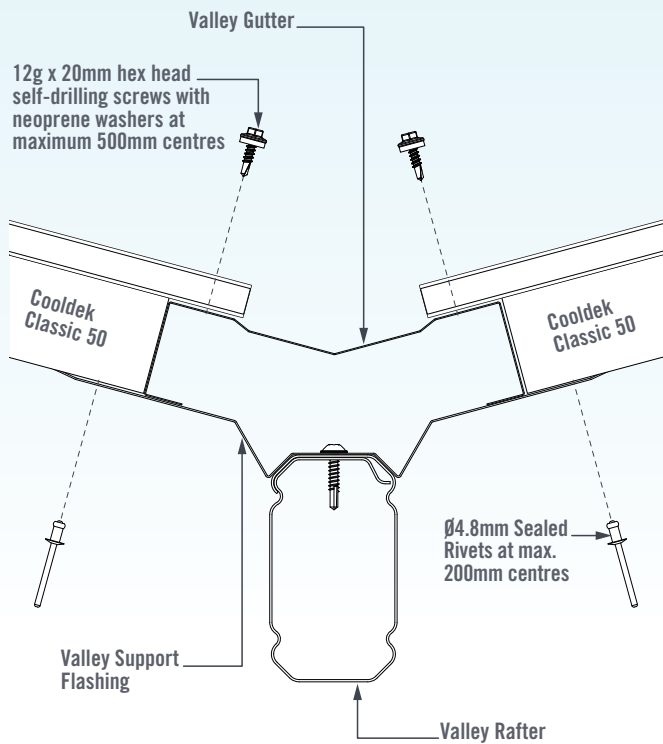


FIGURE 15.99

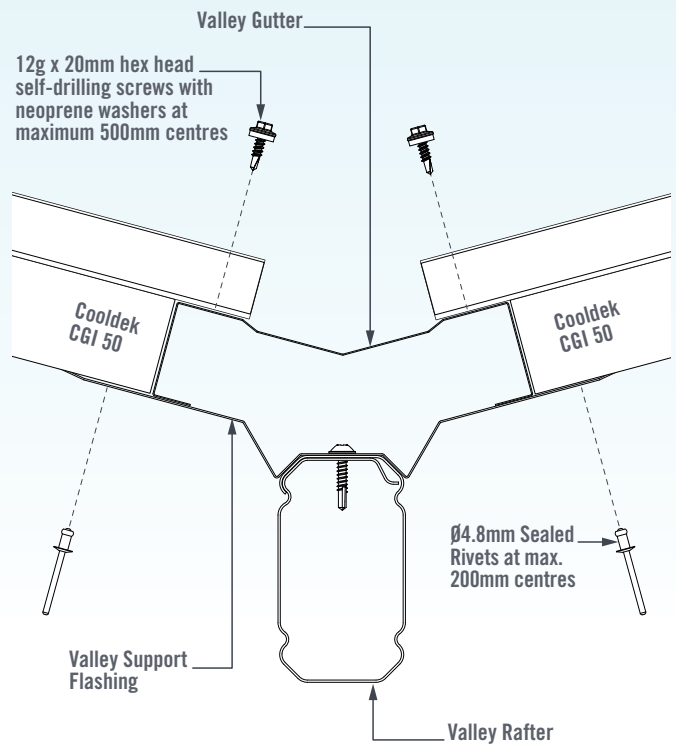


FIGURE 15.101

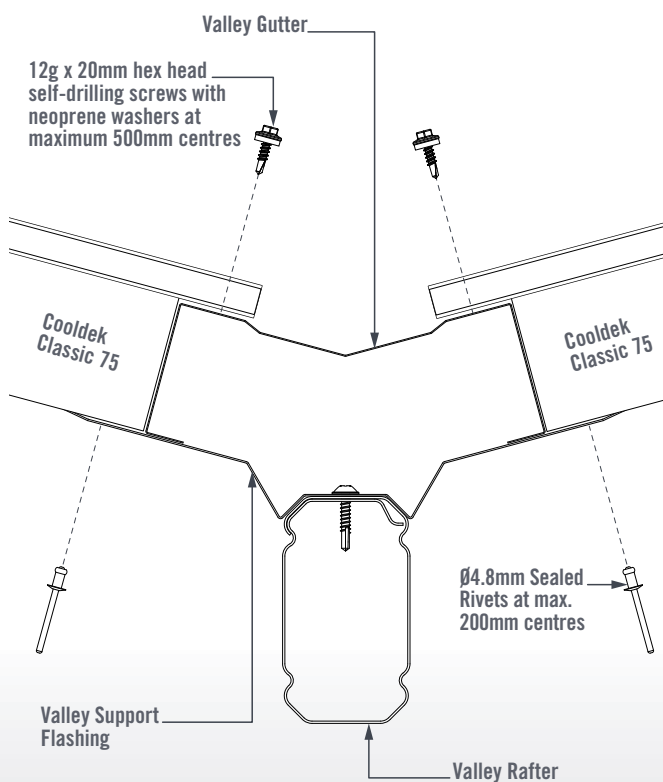


FIGURE 15.100

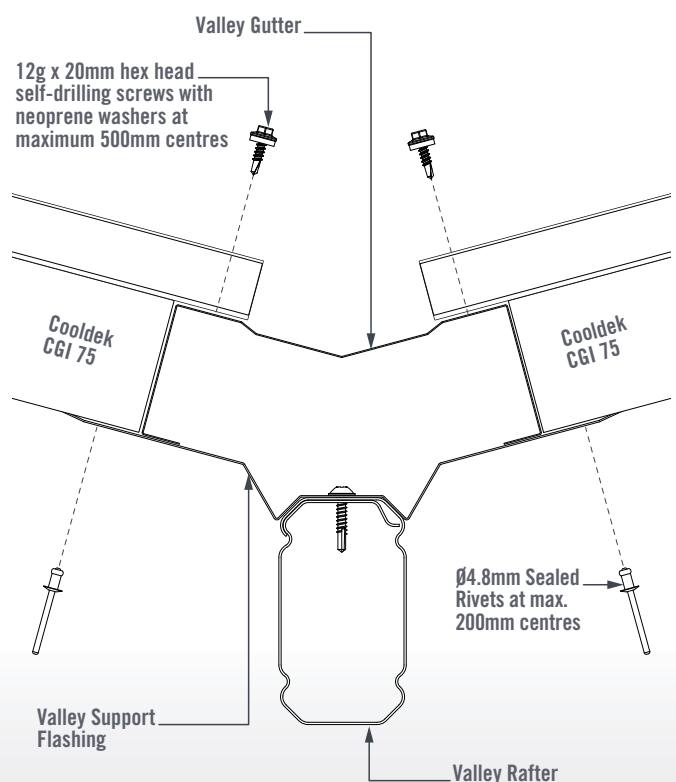


FIGURE 15.102

HIP RAFTER DECKING PREPARATION

Measure and mark the Roof Deck at a 47° angle from the Side Beam, ensuring correct sheet overlap for the decking type being used (refer to Section 9 - Roofing Installation for further detail).

Cut the Roof Deck and lay the sheets in the regular method for the decking type being used (Figure 15.103).

Note: Polycarbonate roofing cannot be used on Hip sections.

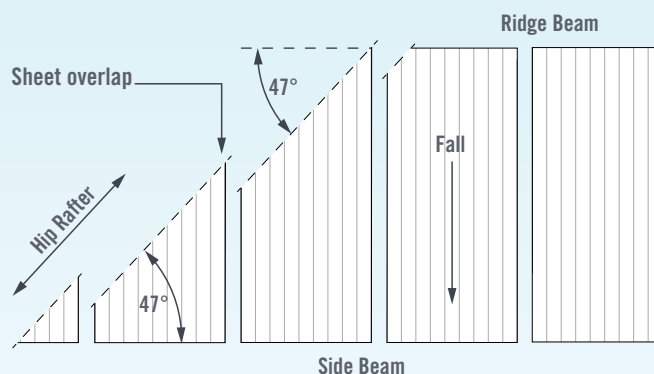


FIGURE 15.103

HIP RAFTER (OUTBACK DECK)

Firmly push the Outback Deck in-between the Hip cover Flashing and the Hip Support Flashing (Figures 15.104 & 15.105).

Fix the Outback Deck to the Hip Support Flashing from the underside using 4x Ø4.8mm (RIV6-4) rivets per sheet (Figures 15.104 & 15.105).

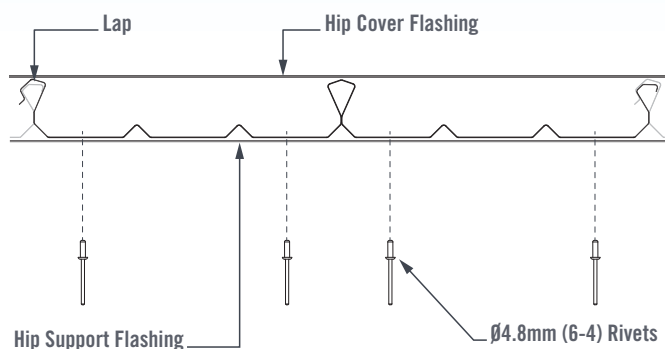


FIGURE 15.104

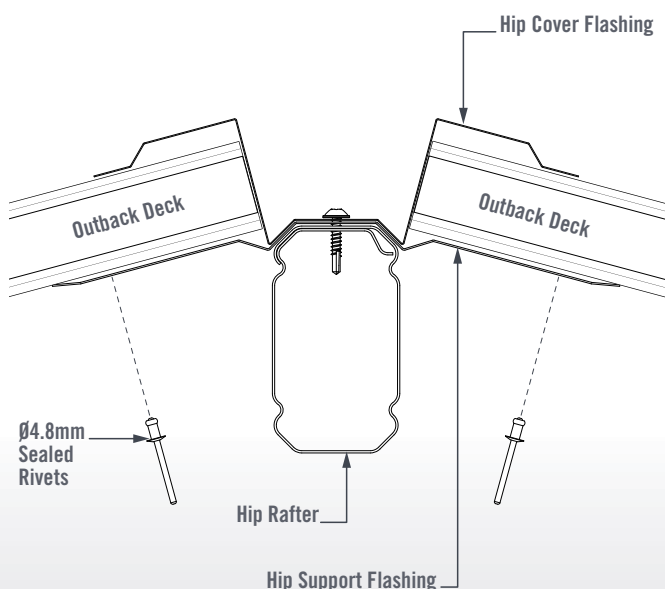


FIGURE 15.105

HIP RAFTER (CGI)

Firmly push the CGI Decking in-between the Hip cover Flashing and the Hip Support Flashing.

Fix the CGI sheet to the Hip Support Flashing from the underside using Ø4.8mm (RIV 6-4) rivets through every third pan (Figures 15.106 & 15.107).

Fix through the Hip Cover Flashing into the CGI sheet through every third crest using 10g x 16mm hex head self-drilling screws (Figures 15.106 & 15.107).

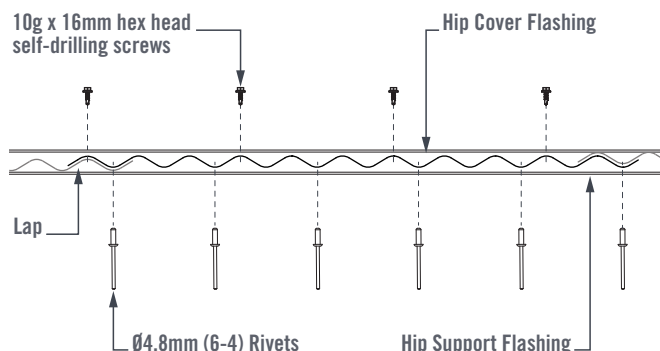


FIGURE 15.106

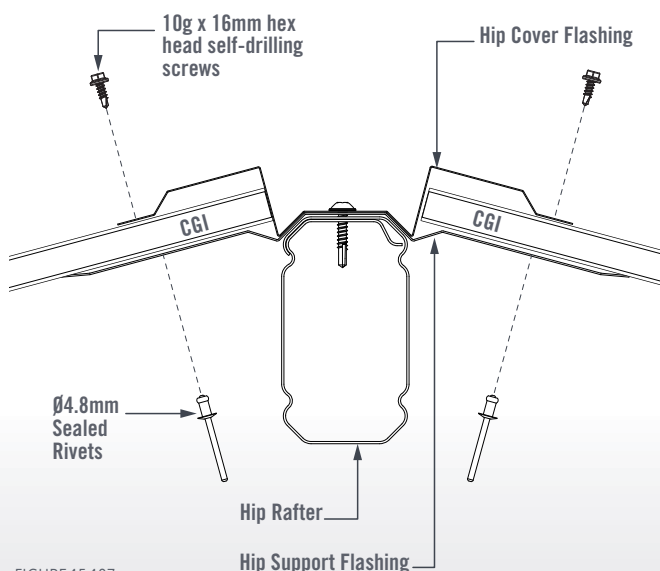


FIGURE 15.107

HIP RAFTER (COOLDEK)

Firmly push the Cooldek sheets in-between the Hip cover Flashing and the Hip Support Flashing.

Fix the Cooldek to the Support Flashing from the underside with Ø4.8mm (RIV6-4) rivets at maximum 200mm centres.

The Hip Cover Flashing is fixed to the Cooldek Top Sheet using Outback Self-Drilling Screws into each crest for Cooldek Classic, and every third crest for Cooldek CGI (Figures 15.108 to 15.111).

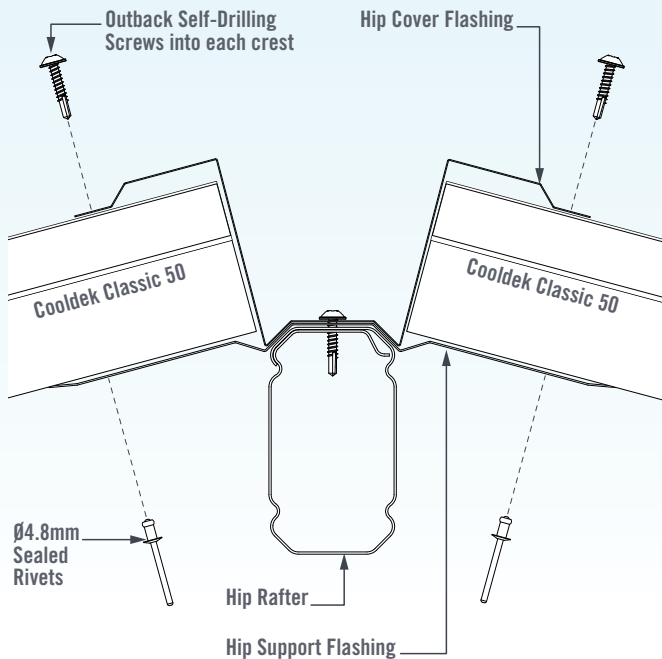


FIGURE 15.108

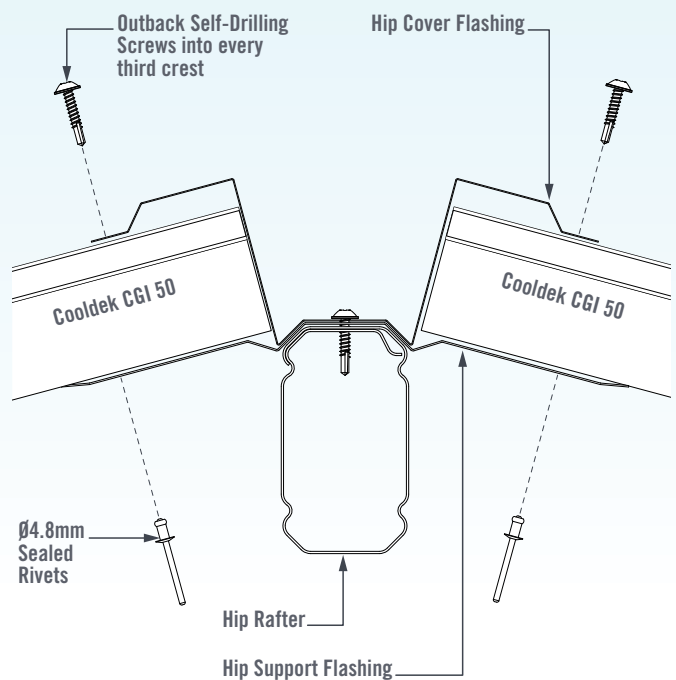


FIGURE 15.110

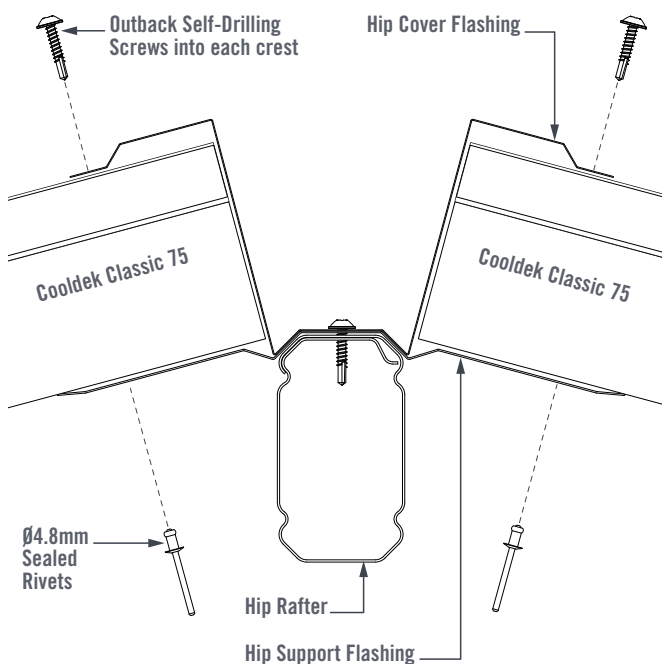


FIGURE 15.109

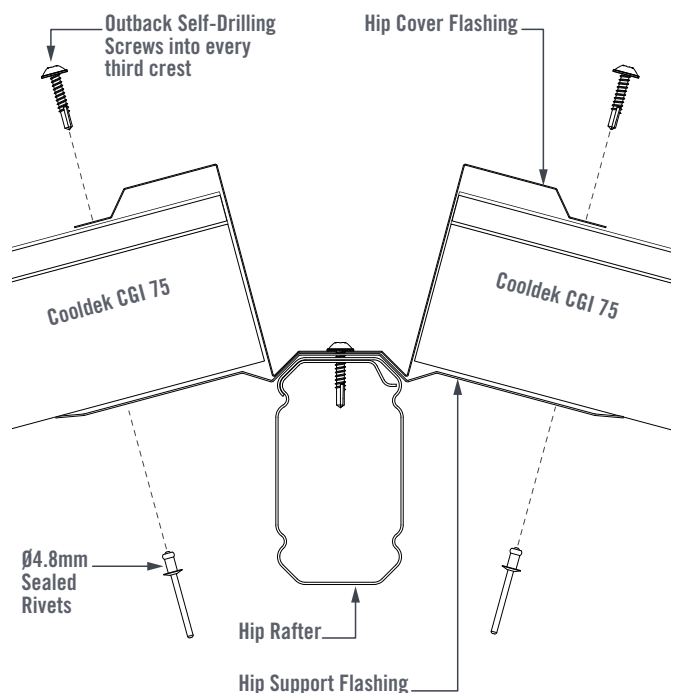


FIGURE 15.111

SKIP BACK TO;

Final Fixing - Page 10.1

HIP CAPPING INSTALLATION

Place the Hip Capping centrally over the Hip Rafter so that it rests flat on either side of the Hip Cover Flashing and covers the screws on each side.

Ensure the Hip Capping is centred at both ends of the Hip Rafter and runs parallel with the Hip Rafter.

Use a string line to mark-out the Hip Capping fixing locations to ensure the screws are aligned with the flat fixing face along the Hip Cover Flashing.

Fix the Hip Capping to the Hip Cover Flashing using 12g x 20mm Hex Head Self-Drilling Screws at maximum 500mm centres (Figures 15.112 to 15.117).

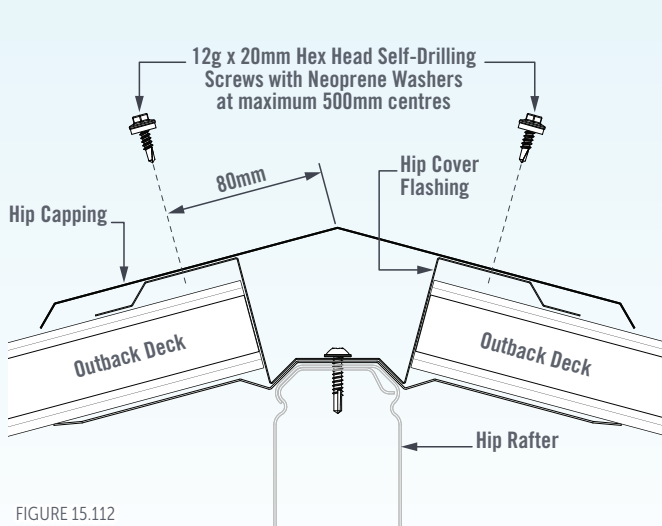


FIGURE 15.112

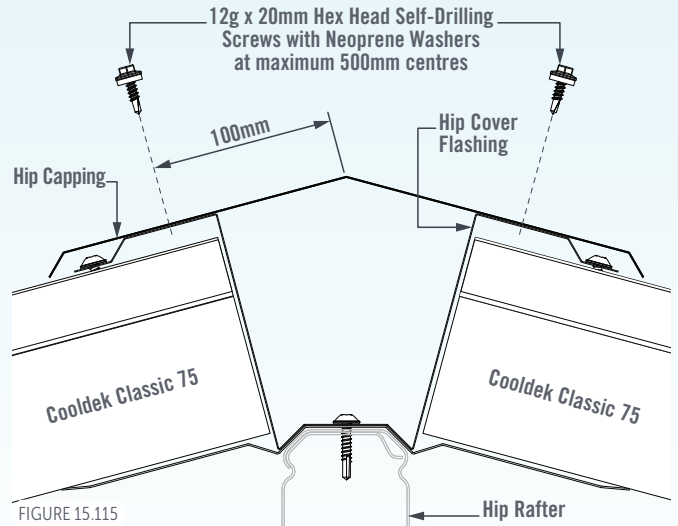


FIGURE 15.115

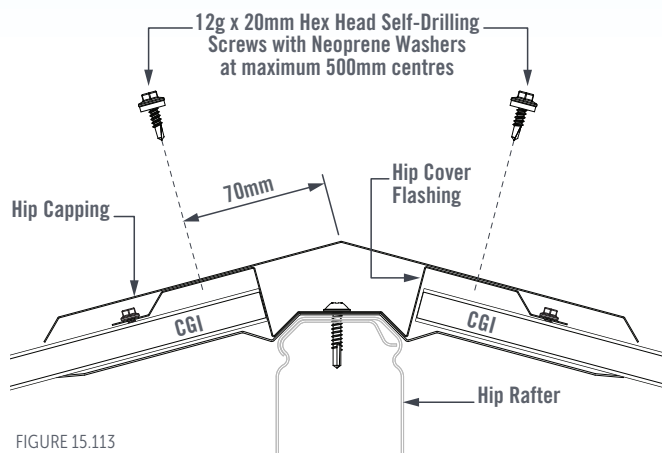


FIGURE 15.113

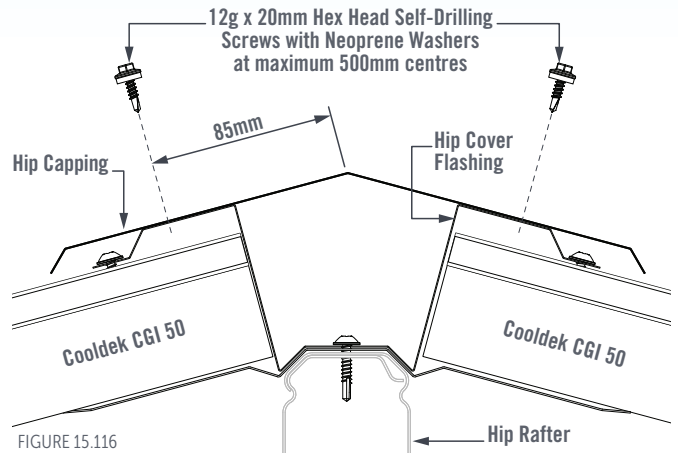


FIGURE 15.116

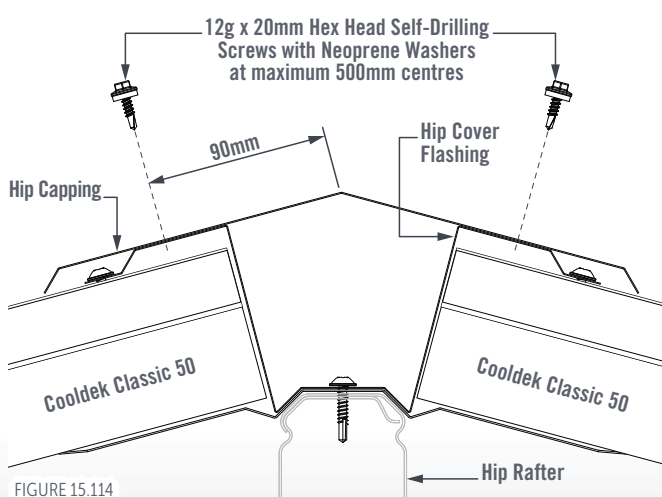


FIGURE 15.114

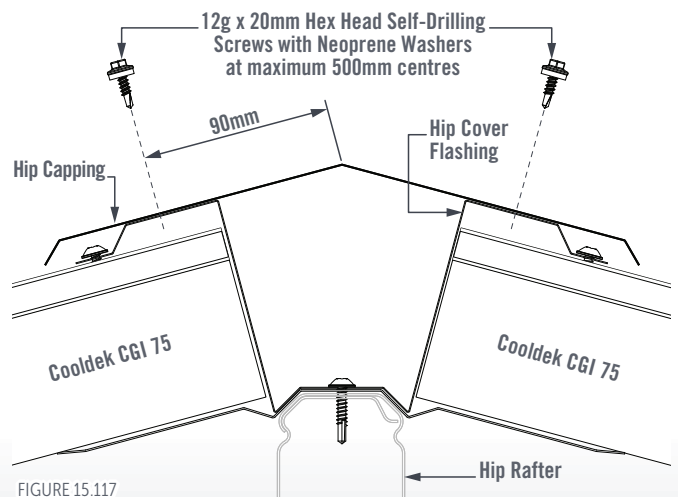


FIGURE 15.117

SKIP BACK TO;

Ridge Bulkhead Installation - Page 13.1

45° RIDGE BULKHEAD PREPARATION (EQUAL RETURN UNITS)

FOR FURTHER DETAIL REFER TO;
Ridge Bulkhead Installation - Page 13.1

Measure, mark, and trim the 45° Left-Hand and Right-Hand Mitres on each Ridge Bulkhead Flashing (Figures 15.118 & 15.119).

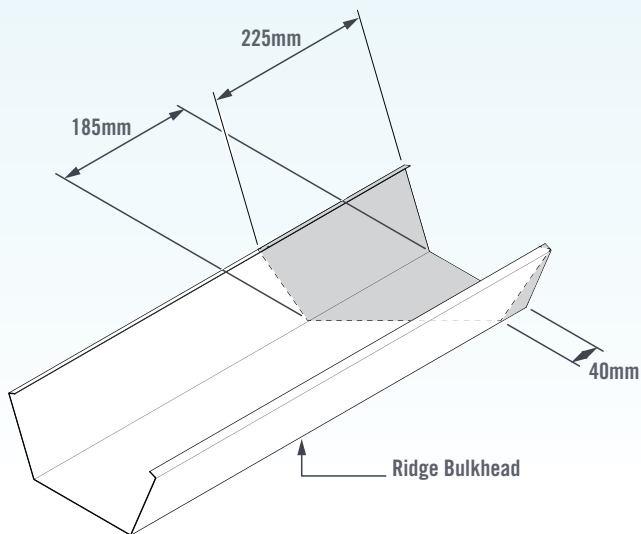


FIGURE 15.118

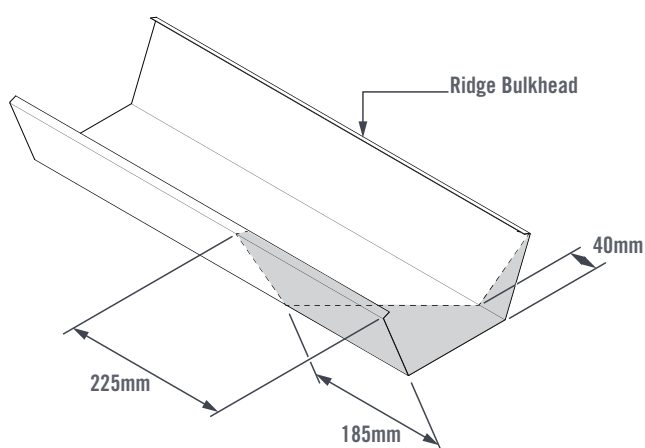


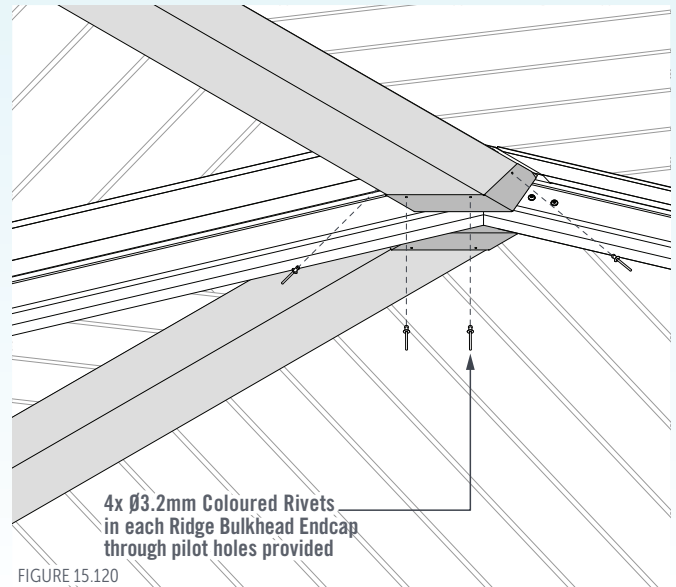
FIGURE 15.119

Fix the Ridge Bulkhead Flashings to the Ridge Bulkhead Support Brackets (refer to Figure 13.11 on Page 13.4).

RIDGE BULKHEAD END-CAP INSTALLATION

Position the End-Caps over the Ridge Bulkhead Flashings and ensure they are hard against the Hip & Valley Rafters.

Fix the End-Caps to the Ridge Bulkhead Flashing using 4x Ø3.2 coloured rivets (Figure 15.120).



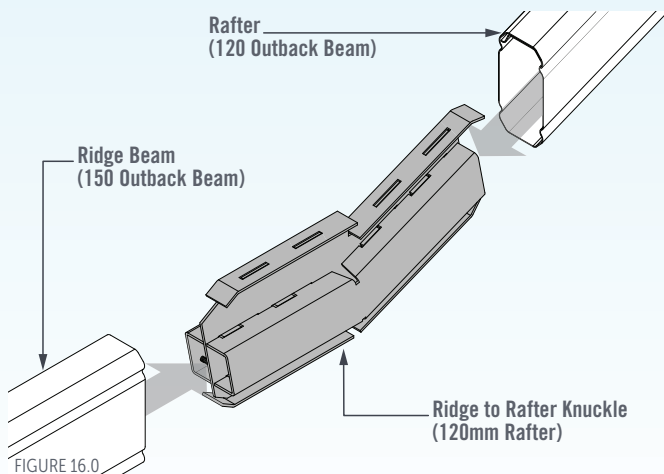
16. UNEQUAL RETURN GABLE

RIDGE-TO-RAFTER BEAM ASSEMBLY

Ridge-to-Rafter Knuckles are used to connect a Rafter on the Major Gable, to the Ridge of the Minor Gable.

120 OUTBACK RAFTER KNUCKLE ASSEMBLY

Refer to Detail Sheets provided to determine Ridge-Rafter pairs. Insert the Ridge-to-Rafter Knuckle into the Outback Beams ensuring the Beams are flush and hard against one another with no gaps and the seams of the Rafters are at the top and facing the same side (Figure 16.0).



Measure and mark the screw locations on each side of the Ridge Beam and 120mm Rafter (Figure 16.1).

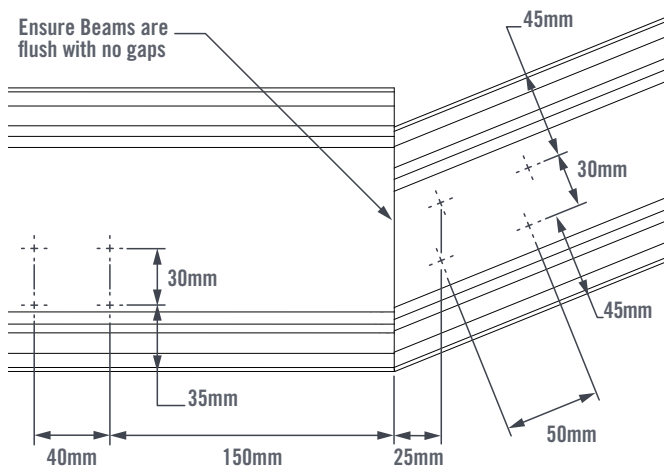


FIGURE 16.1

Fix the Beams to the Outback Ridge-to-Rafter Knuckle using 8x Outback Self-Drilling Screws each side of each Rafter Set (Figure 16.2).

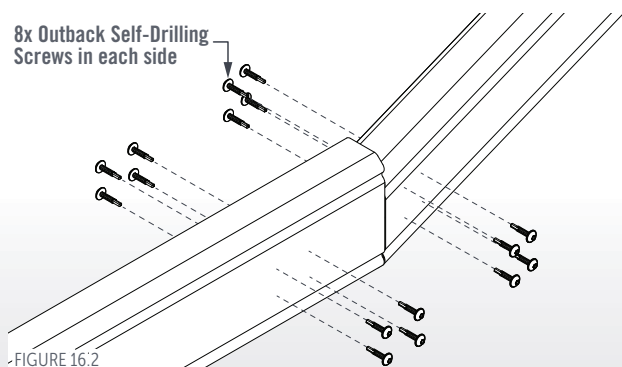


FIGURE 16.2

150 OUTBACK RAFTER KNUCKLE ASSEMBLY

Refer to Detail Sheets provided to determine Ridge-Rafter pairs. Insert the Ridge to Rafter Knuckle into the Outback Beams ensuring the Beams are flush and hard against one another with no gaps and the seams of the Rafters are at the top and facing the same side (Figure 16.3).

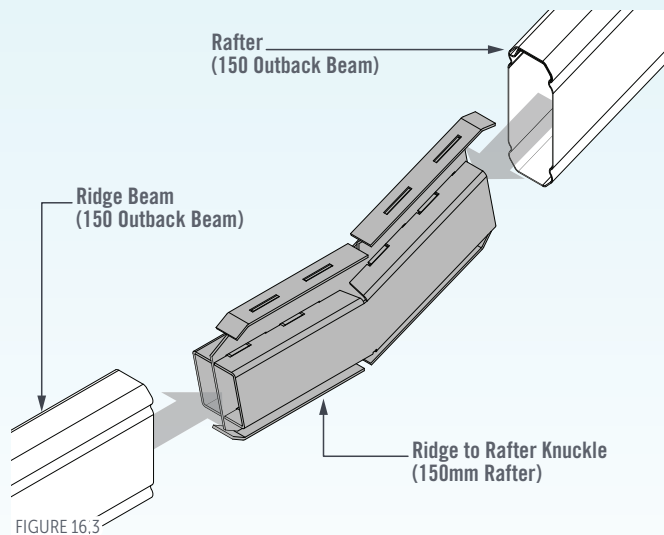


FIGURE 16.3

Measure and mark the screw locations on each side of the Ridge Beam and 150mm Rafter (Figure 16.4).

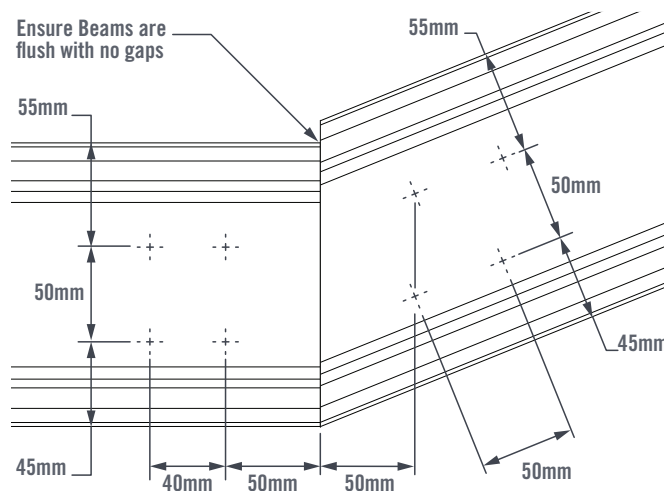


FIGURE 16.4

Fix the Beams to the Outback Ridge to Rafter Knuckle using 8x Outback Self-Drilling Screws each side of each Rafter Set (Figure 16.5).

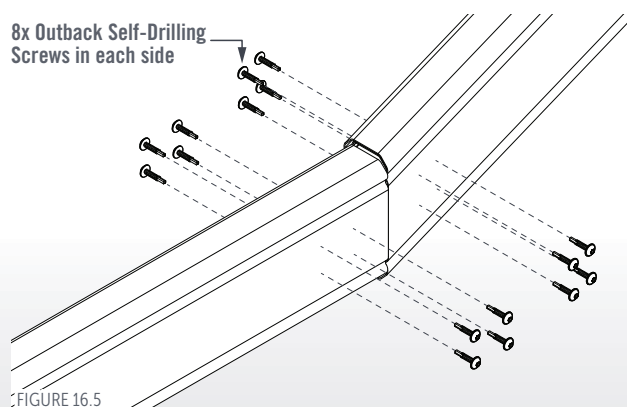


FIGURE 16.5

VALLEY RAFTER-TO-RIDGE RAFTER BRACKET INSTALLATION (120MM RAFTERS)

Position the Valley Rafter-to-Ridge Rafter Brackets on each side of the Ridge Beam so that the tabs on top of the Bracket are flush with the end of the Ridge Beam (Figure 16.6).

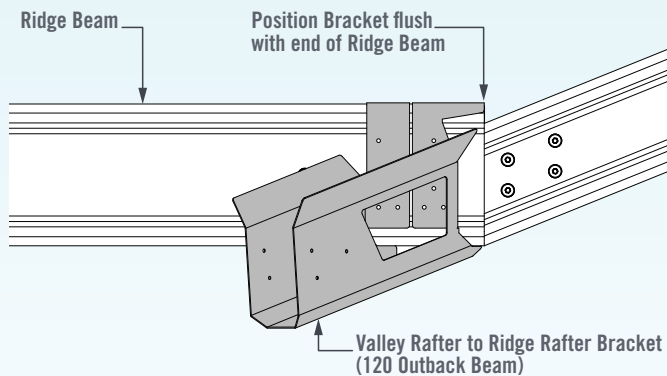


FIGURE 16.6

Fix each Valley Rafter-to-Ridge Rafter Bracket to the Ridge Beam using Outback Self-Drilling Screws through the pilot holes provided (Figures 16.7 & 16.8).

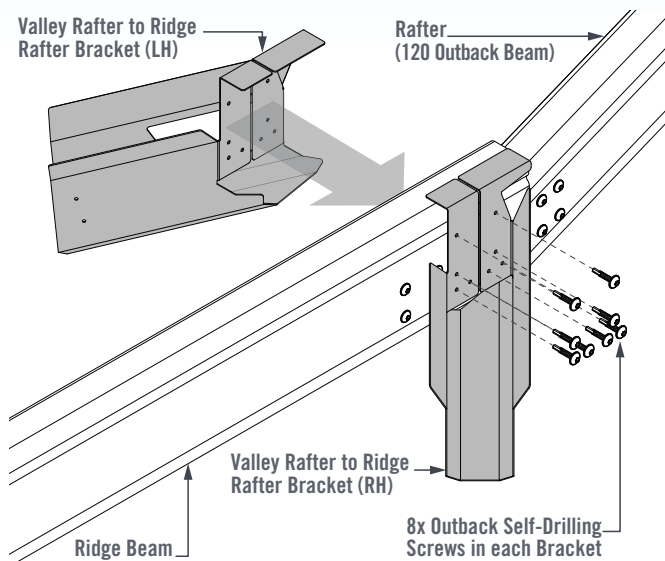


FIGURE 16.7

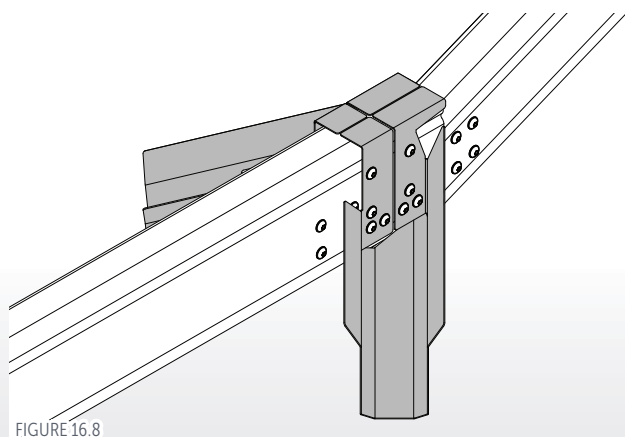


FIGURE 16.8

VALLEY RAFTER-TO-RIDGE RAFTER BRACKET INSTALLATION (150MM RAFTERS)

Position the Valley Rafter-to-Ridge Rafter Brackets on each side of the Ridge Beam so that the tabs on top of the Bracket are flush with the end of the Ridge Beam (Figure 16.9).

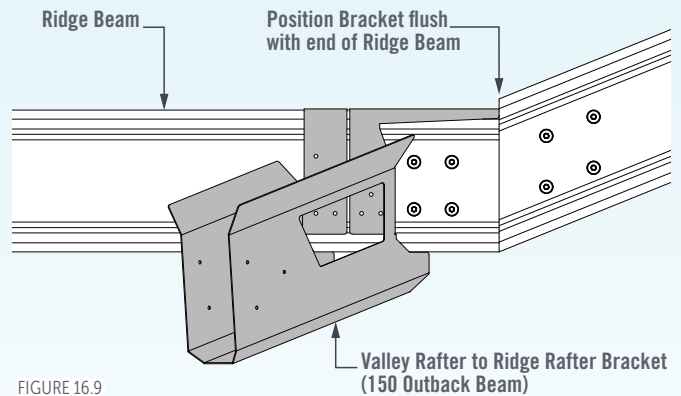


FIGURE 16.9

Fix each Valley Rafter-to-Ridge Rafter Bracket to the Ridge Beam using Outback Self-Drilling Screws through the pilot holes provided (Figures 16.10 & 16.11).

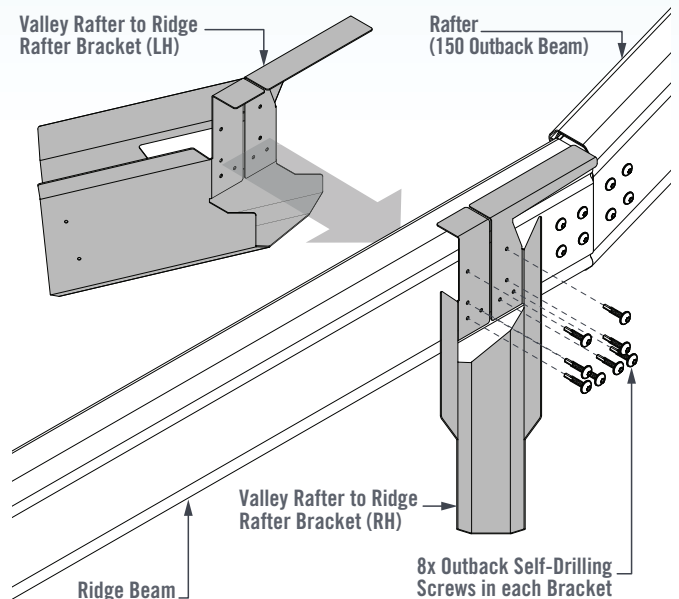


FIGURE 16.10

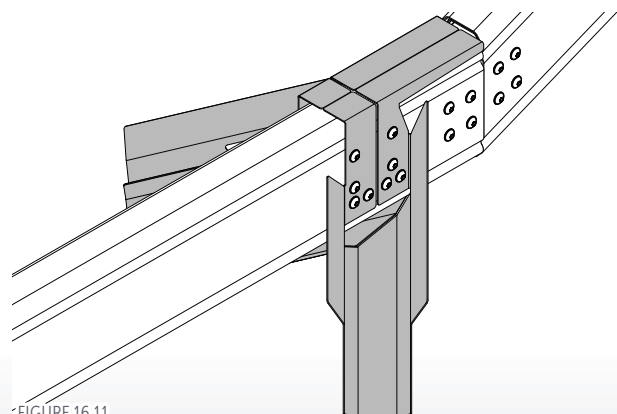


FIGURE 16.11

SKIP BACK TO;
Column Installation - Page 4.1

RIDGE-TO-RAFTER BEAM INSTALLATION

SPLIT RAFTER-TO-RIDGE BRACKET

Refer to detail sheets provided for Ridge Beam layouts.

Measure and mark the location of the Split Rafter-to-Ridge Brackets on the Major Ridge Beam.

Fix the Split Rafter-to-Ridge Brackets to the Major Ridge Beam using 8x Outback Self-Drilling Screws through the pilot holes provided (Figures 16.12 & 16.13).

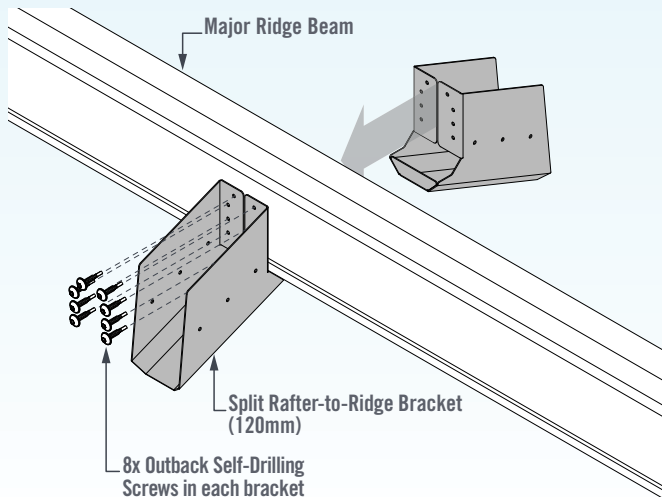


FIGURE 16.12 - 120 RAFTERS

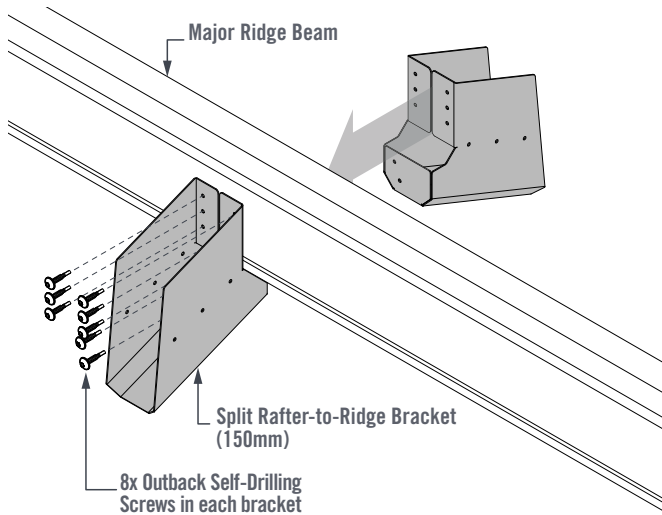


FIGURE 16.13 - 150 RAFTERS

RIDGE TO RAFTER BEAM INSTALLATION

Lift the Ridge-to-Rafter Beam assembly into position so that it rests in the Ridge-to-Rafter Bracket along the Minor Ridge section, and the Split Rafter-to-Ridge Bracket on the Major Ridge Beam (Figures 16.14 & 16.15).

Lift the single Rafter into the opposite Split Rafter-to-Ridge Bracket and Rafter-to-Beam Bracket.

Ensure Ridge Beam alignment, fix both the Ridge-to-Rafter Beam and the Rafter to the Split Rafter-to-Ridge Brackets using 3x Outback Self-Drilling Screws through the pilot holes provided in each side of each Bracket (Figures 16.14 & 16.15).

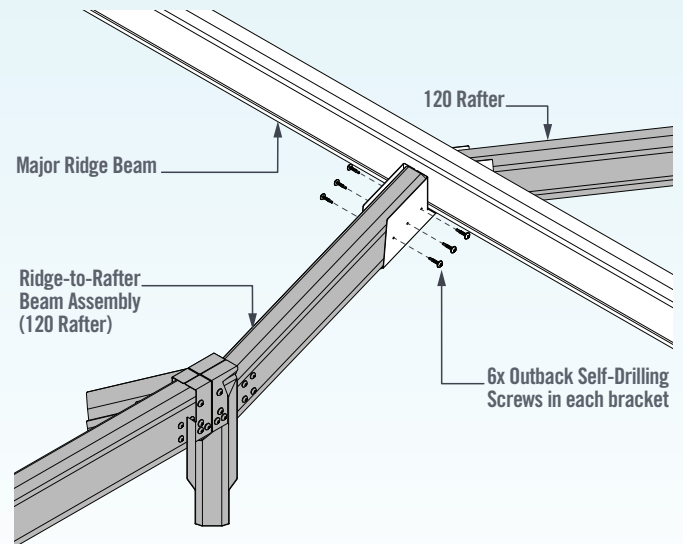


FIGURE 16.14 - 120 RAFTERS

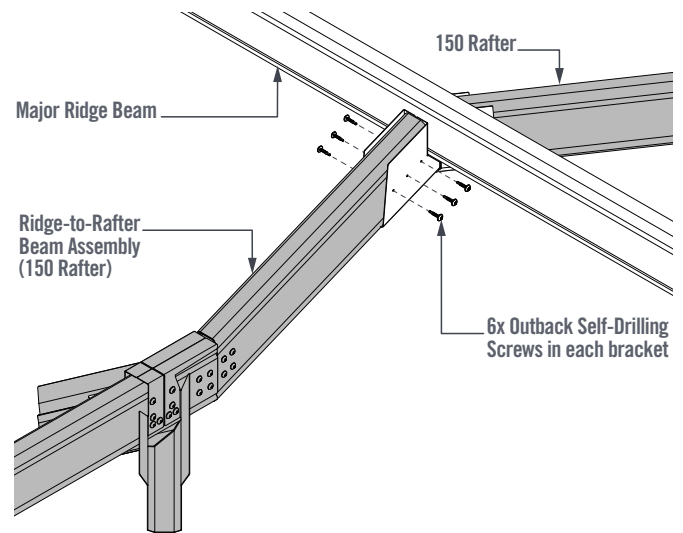


FIGURE 16.15 - 150 RAFTERS

SKIP BACK TO;

Purlin Installation - Page 7.1

UNEQUAL RETURN GABLE RAFTER INSTALLATION

SMALL BEAM CAP

(120MM & 150MM RAFTER)

Place the Rafter-to-Header Bracket on the Side/Header Beam so that the end of the bracket rests against the end of the Small Beam Cap.

Refer to detail sheets provided for Extrusion layouts.

Fix the Rafter-to-Header Bracket to the Side/Header Beam with Outback Self-Drilling Screws through the pilot holes provided (Figures 16.16 & 16.17).

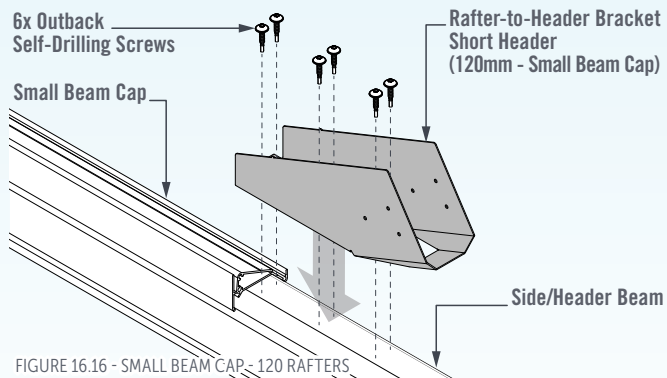


FIGURE 16.16 - SMALL BEAM CAP - 120 RAFTERS

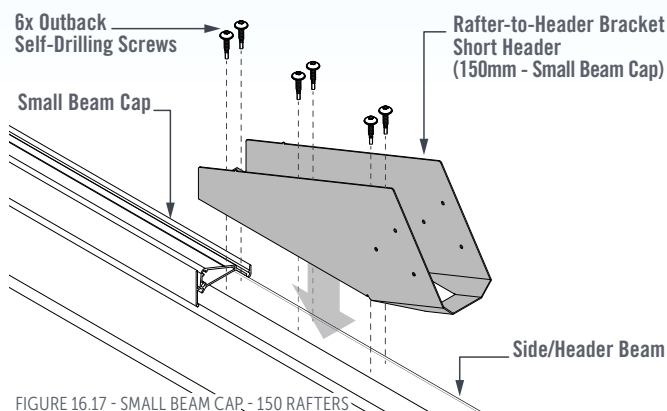


FIGURE 16.17 - SMALL BEAM CAP - 150 RAFTERS

LARGE BEAM CAP

(120MM & 150MM RAFTER)

Position the Rafter-to-Header Bracket on the Side/Header Beam so that the back of the bracket is against the end of the Small Beam Cap.

Refer to detail sheets provided for Extrusion layouts.

Fix the Rafter-to-Header Bracket to the Header Beam with Outback Self-Drilling Screws through the pilot holes provided (Figures 16.18 & 16.19).

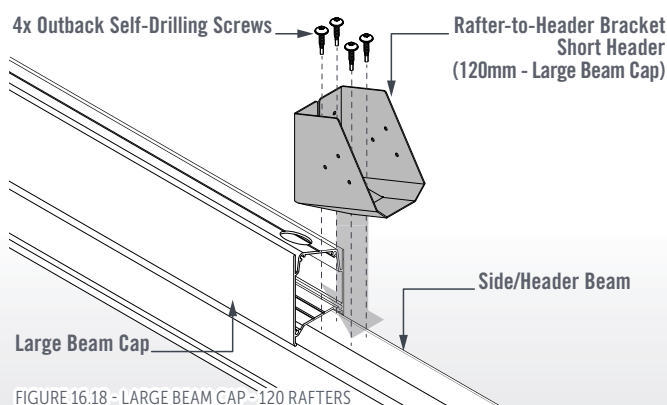


FIGURE 16.18 - LARGE BEAM CAP - 120 RAFTERS

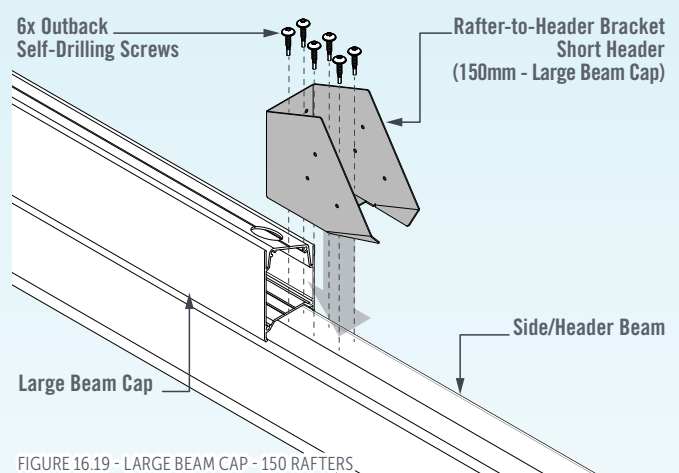


FIGURE 16.19 - LARGE BEAM CAP - 150 RAFTERS

Fix the Rafter-to-Header Bracket to the screw channel in the end of the Large Beam Cap using an Outback Self-Drilling Screw through the pilot hole in the back face of the bracket (Figures 16.20 & 16.21).

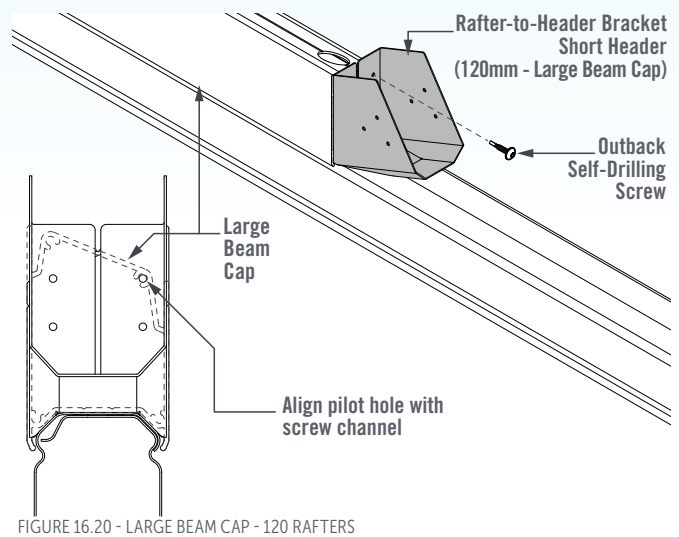


FIGURE 16.20 - LARGE BEAM CAP - 120 RAFTERS

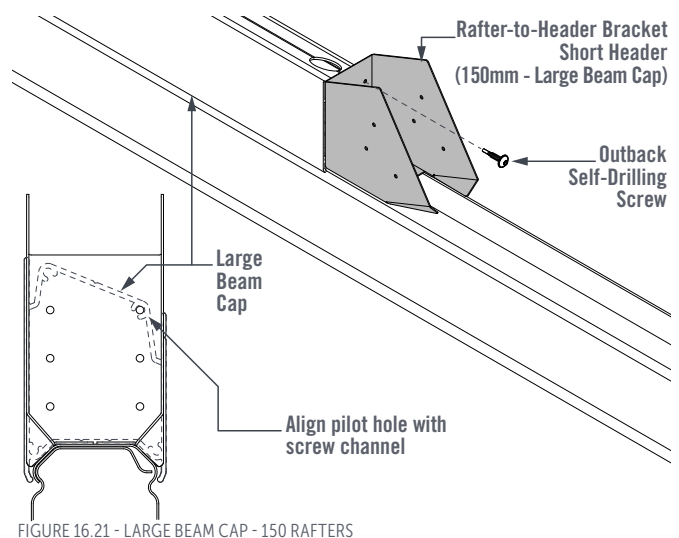


FIGURE 16.21 - LARGE BEAM CAP - 150 RAFTERS

Install rafter set.

SKIP BACK TO;

Rafter to Short Header Rafter Installation - Page 5.5

VALLEY RAFTER PREPARATION

VALLEY RAFTER TO CORNER BRACKET INSTALLATION

Refer to Figures 15.23 to 15.28 on Page 15.7 for Valley Rafter to Corner installation.

REFER TO;

Valley Rafter Bracket Installation - Page 15.7

VALLEY RAFTER-TO-BEAM BRACKET INSTALLATION

Position the Valley-to-Beam Bracket locating tab on the Rafter-to-Header Bracket and ensure the side of the Bracket is vertical (Figures 16.22 to 16.25).

Fix the Valley-to-Beam Bracket to the Side/Header Beam using 7x Outback Self-Drilling Screws through the pilot holes provided.

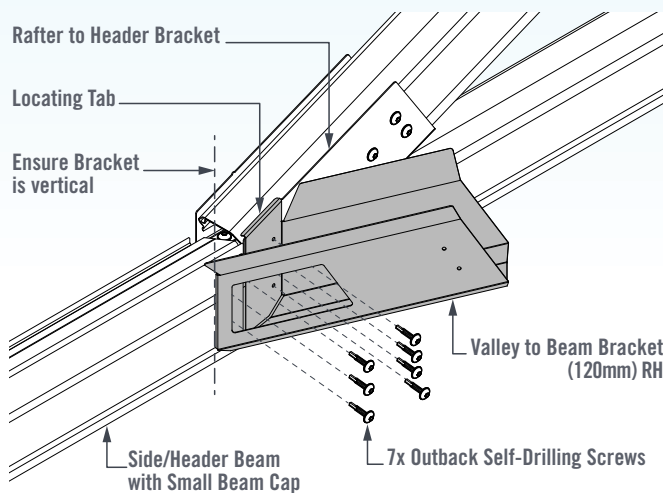


FIGURE 16.22 - SMALL BEAM CAP - 120 RAFTERS

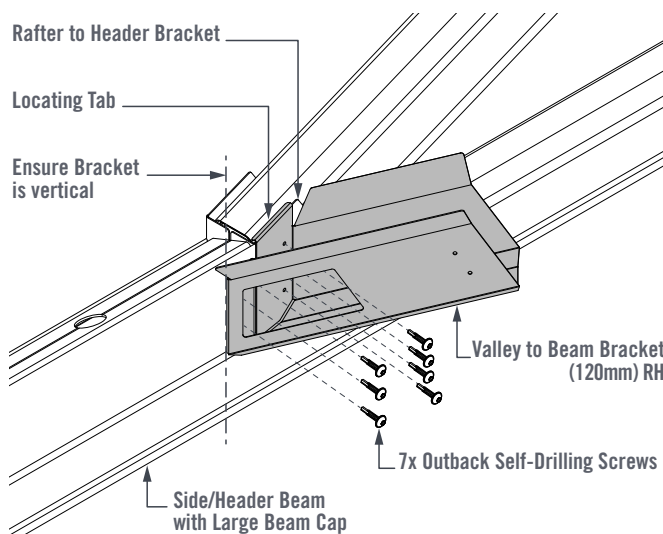


FIGURE 16.23 - LARGE BEAM CAP - 120 RAFTERS

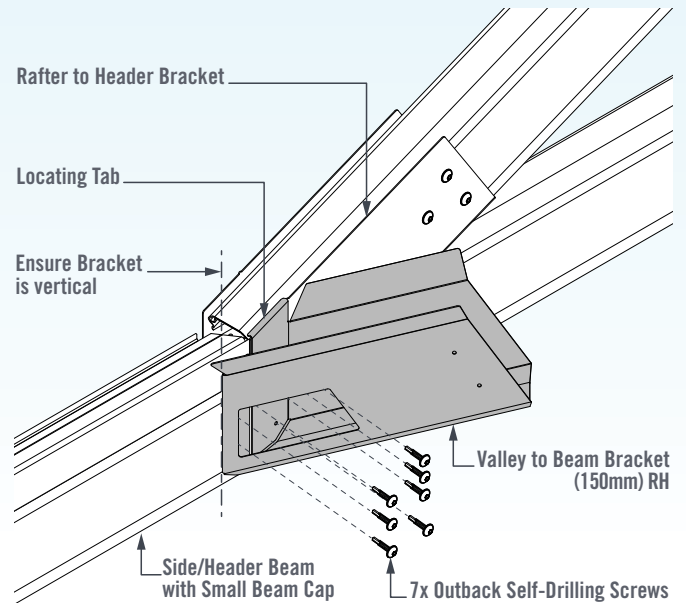


FIGURE 16.24 - SMALL BEAM CAP - 150 RAFTERS

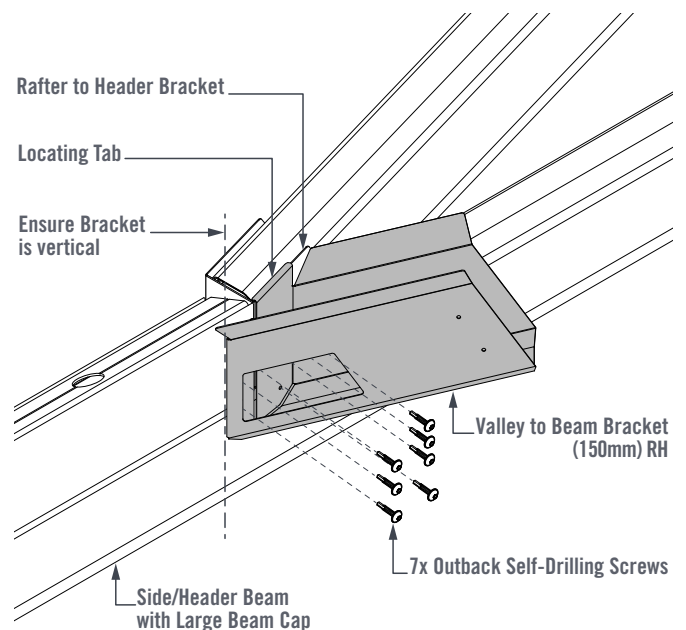


FIGURE 16.25 - LARGE BEAM CAP - 150 RAFTERS

VALLEY RAFTER INSTALLATION

Before fixing the Rafters in-place check that the width of the unit is correct according to the Detail Sheets provided (Figure 5.30).

Note: The opening width of the gable end is measured from the outer face of the Side Beams.

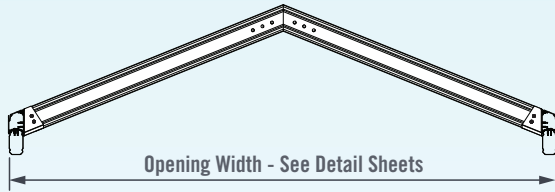


FIGURE 16.26

Check that the framework is square on an Equal Return unit by ensuring the diagonal measurements of each section are the same (Figure 16.27).

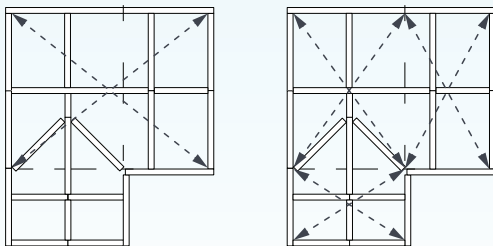


FIGURE 16.27

Lift the Valley Rafter into the Valley-to-Beam Bracket and the Valley Rafter-to-Ridge Rafter Bracket (Figures 16.28 to 16.31).

Fix the Valley Rafter in position using 2x Outback Self-Drilling Screws through the pilot holes provided in each side of each Brackets (Figures 16.28 to 16.31).

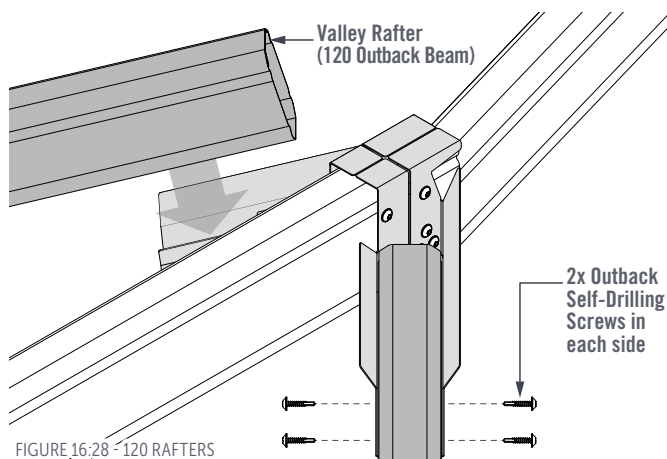


FIGURE 16.28 - 120 RAFTERS

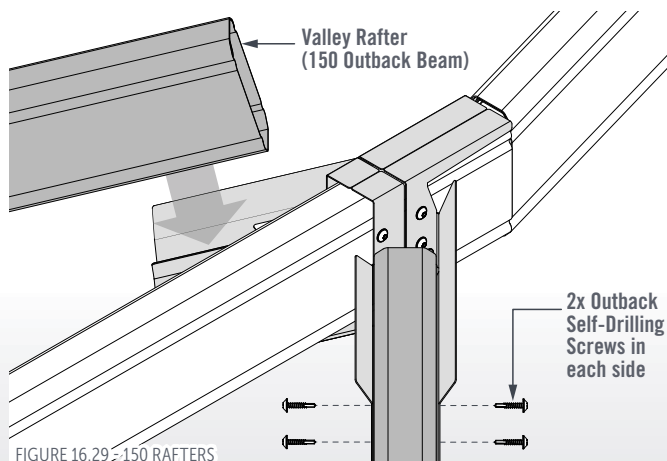


FIGURE 16.29 - 150 RAFTERS

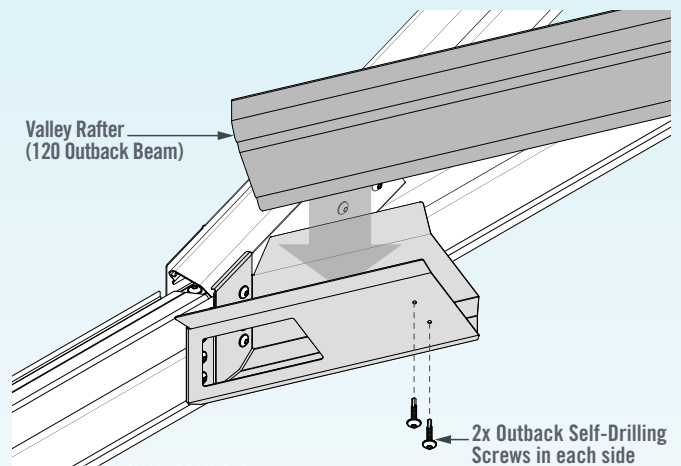


FIGURE 16.30 - SMALL BEAM CAP

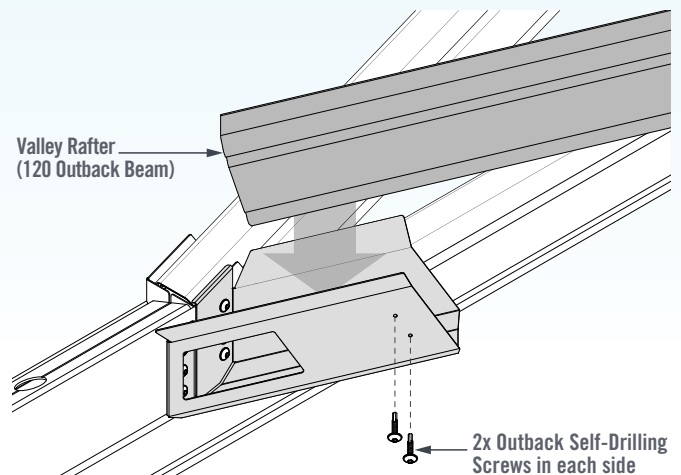


FIGURE 16.31 - LARGE BEAM CAP

VALLEY-TO-RIDGE SUPPORTS

Place the Left and Right Valley-to-Ridge Supports on the Valley Rafters ensuring that they overlap the Ridge Beam.

Fix each Valley-to-Ridge Support to the Ridge Beam and the Major Rafter using 3x Outback Self-Drilling Screws through the pilot holes provided (Figures 16.32 & 16.33).

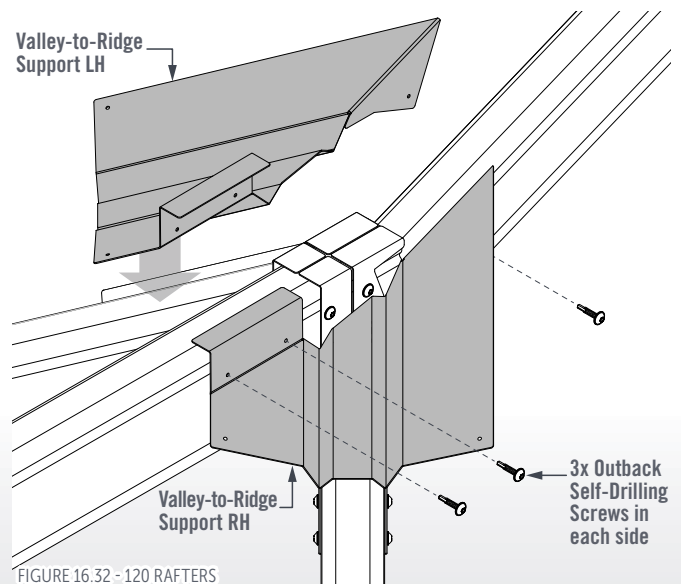
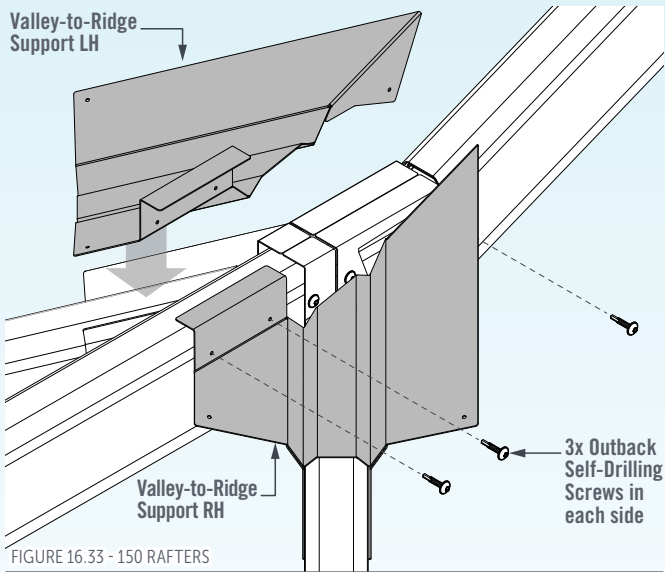


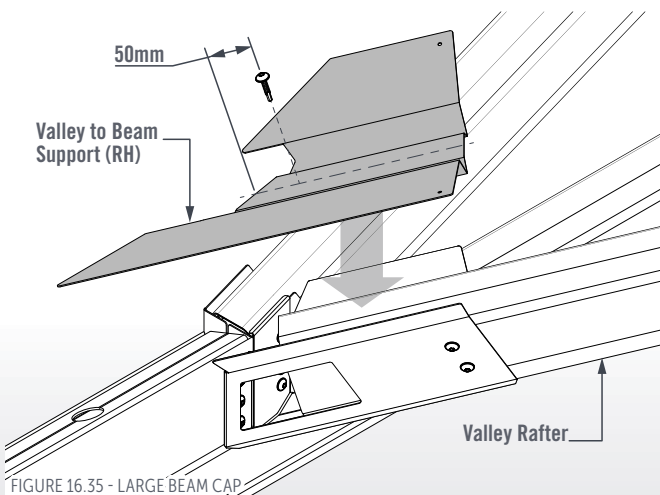
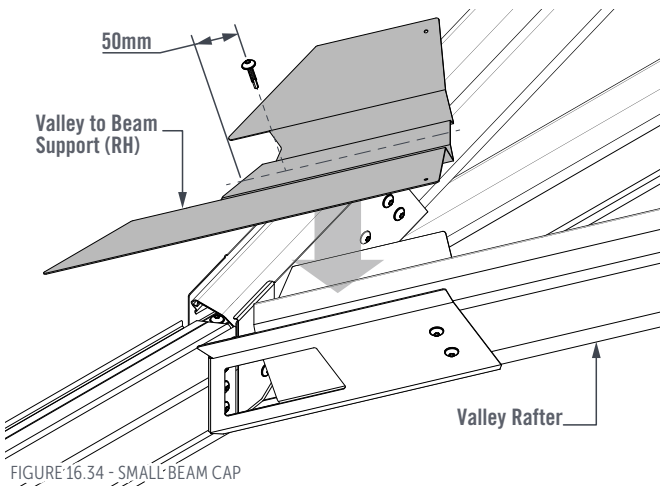
FIGURE 16.32 - 120 RAFTERS



VALLEY-TO-BEAM SUPPORTS

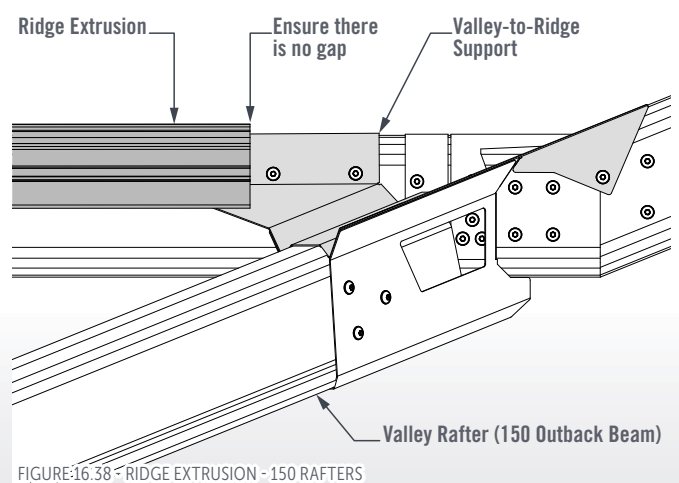
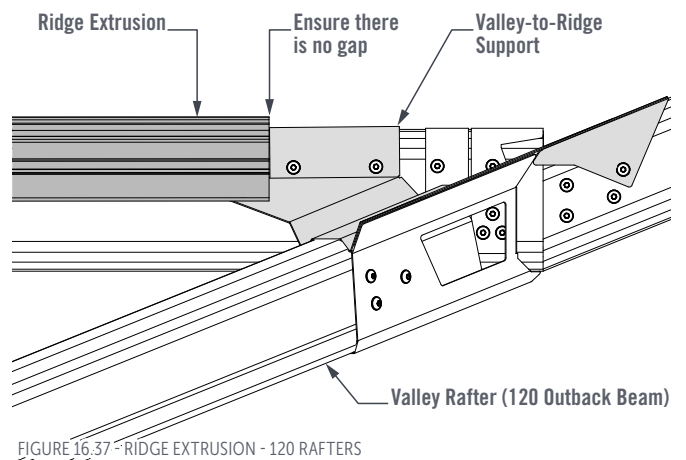
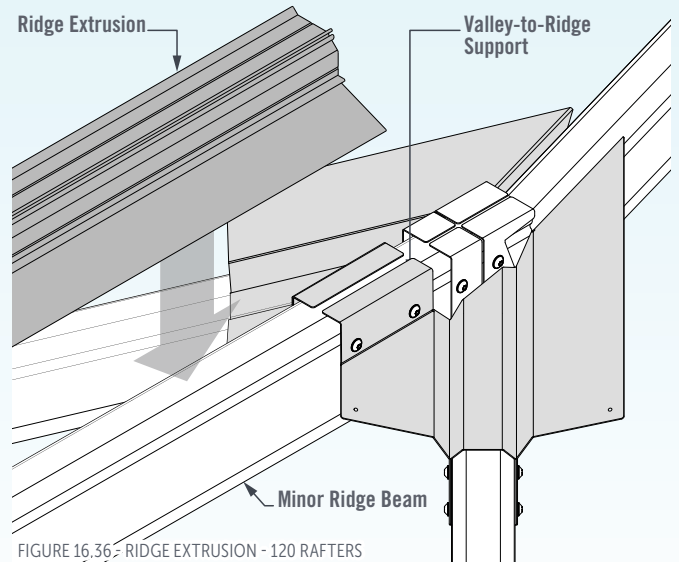
Place the Valley to Beam Support on the Valley Rafter ensuring that it overlaps the Beam Cap and the End Rafter.

Fix the Valley to Beam Support to the Valley Rafter using 1x Outback Self-Drilling Screw along the centre, 50mm from the end (Figures 16.34 & 16.35).



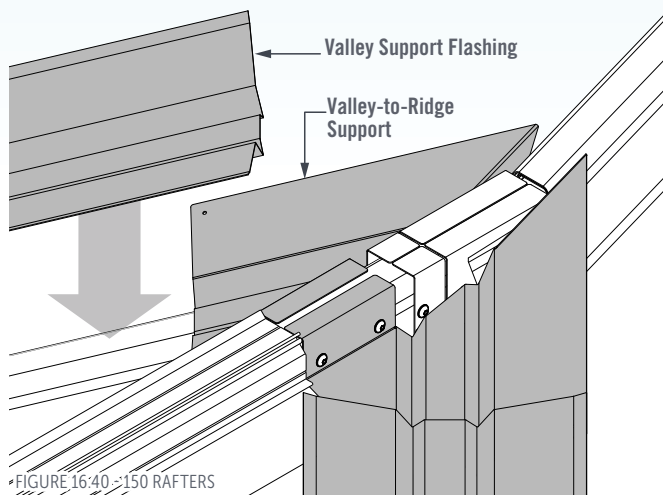
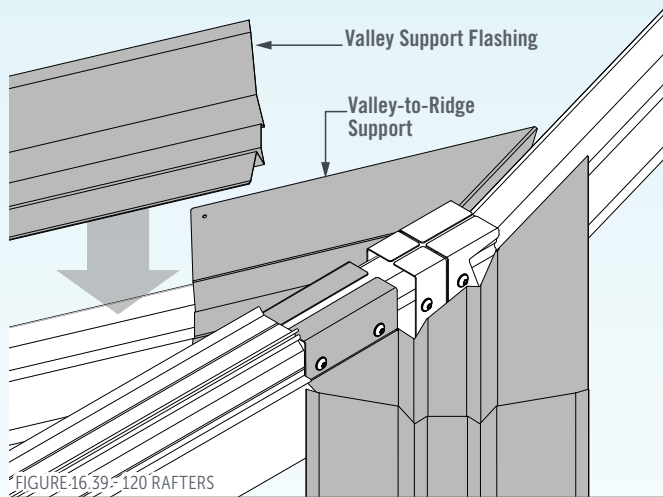
MINOR RIDGE BEAM RIDGE EXTRUSION

Position the Ridge Extrusion along the Minor Ridge Beam so that it is pushed against the top tabs of the Valley-to-Ridge Support (Figures 16.36 to 16.38).

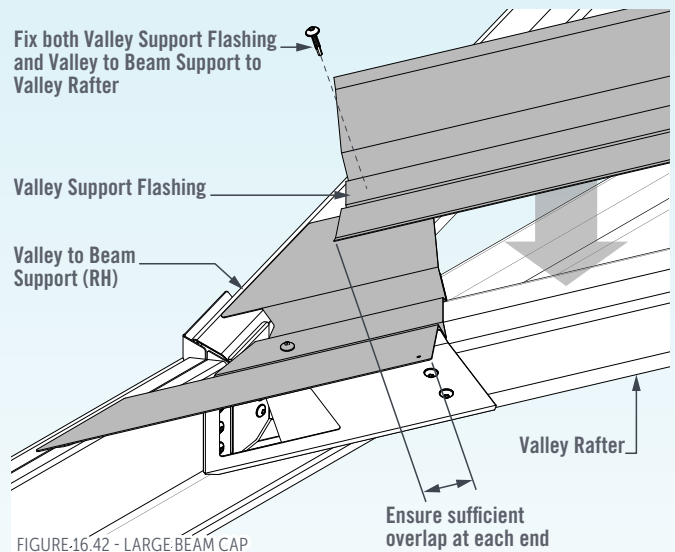
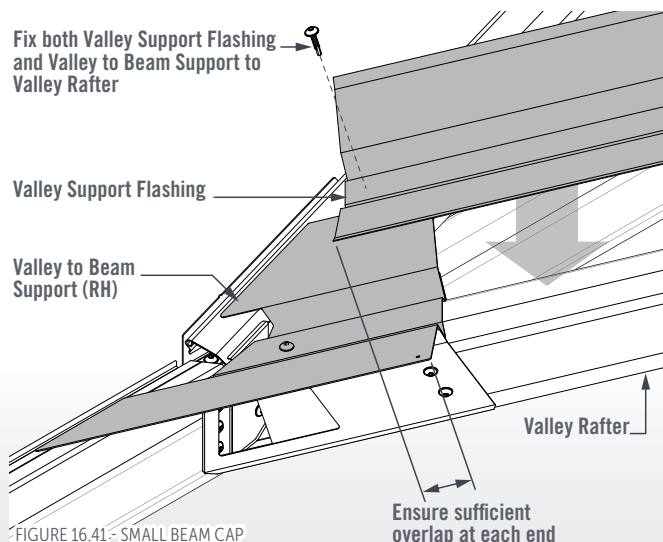


VALLEY SUPPORT FLASHING INSTALLATION

Place the Valley Support Flashings on the Valley Rafters so that they overlap the Valley-to-Ridge Support and the Valley-to-Beam Support (Figures 16.39 & 16.40).

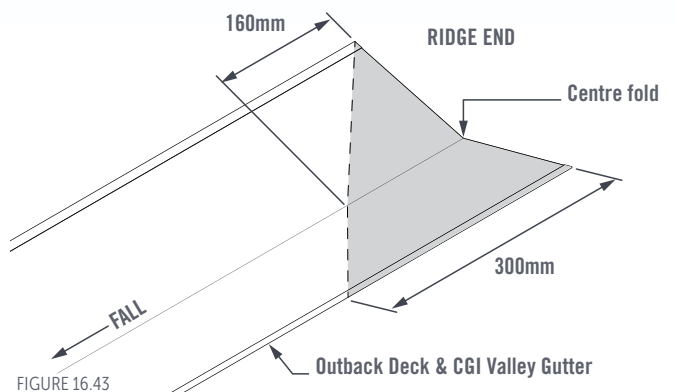


Fix the Valley Support Flashing to the Valley Beam using Outback Self-Drilling Screws at maximum 500mm centres (Figures 16.41 & 16.42).



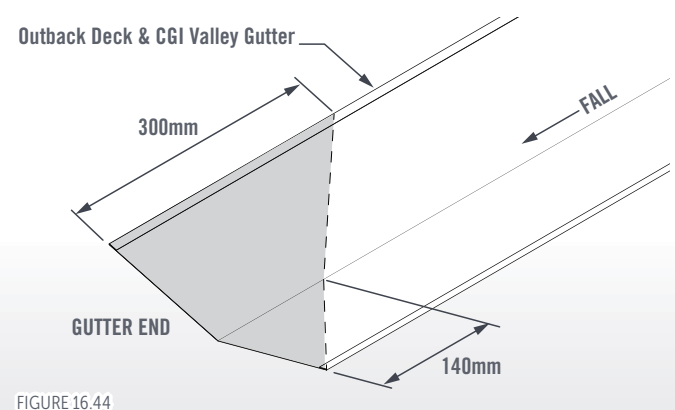
VALLEY GUTTER PREPARATION CGI & OUTBACK DECK

Measure, mark, and cut the corners off the Valley Gutter at the Ridge end so it sits flush against the Ridge Beams (Figure 16.43). Mirror this cutting detail for the opposite Valley Rafter.



Measure, mark, and cut the Gutter end of the Valley Gutter ensuring the trough overhangs 50mm past the Beam Cap into the Gutter (Figure 16.44).

Position the Valley Gutter on the Valley Support Flashing but do not fix in-place yet.



COOLDEK VALLEY GUTTER (RIDGE END)

Measure, mark, and cut the corners off the Valley Gutter at the Ridge (top) end so that it sits flush against the Ridge Beams (Figures 16.45 & 16.46).

Mirror this detail for the opposite Valley Rafter.

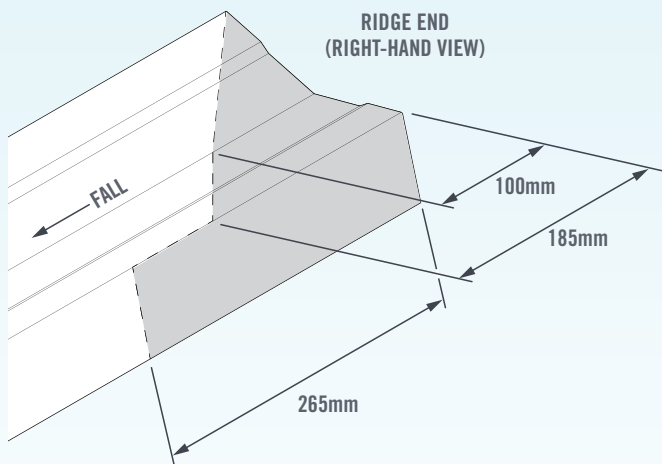


FIGURE 16.45

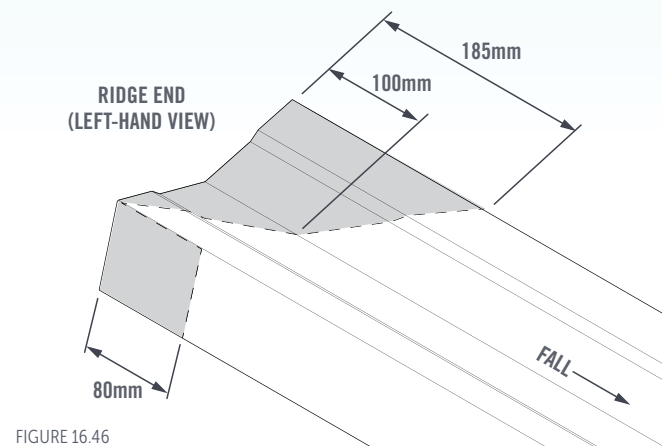


FIGURE 16.46

COOLDEK VALLEY GUTTER (GUTTER END)

Measure, mark, and cut the Gutter end of the Cooldek Valley Gutter to allow the trough to overhang 50mm past the Beam Cap into the Gutter (Figures 16.47 & 16.48).

Mirror this detail for the opposite Valley Rafter.

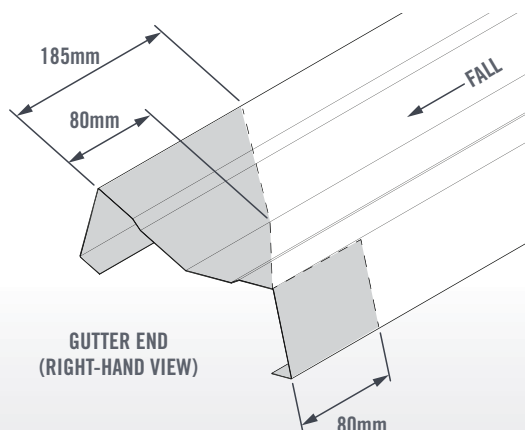


FIGURE 16.47

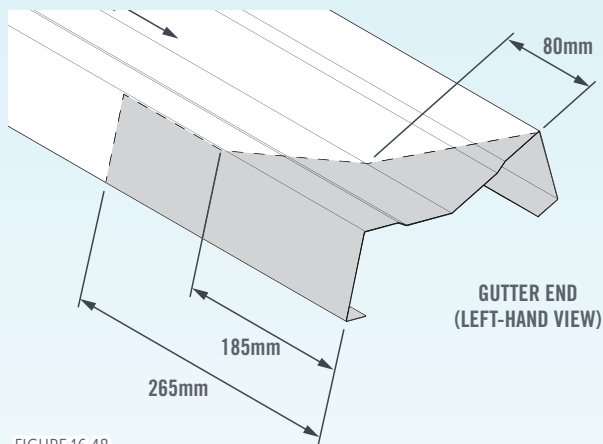


FIGURE 16.48

INTERNAL GUTTER MITRES

For an internal Gutter corner (at the Valley of the unit), use the template provided in the Outback Edge 160 Mitring Guide to mark-out and cut a 45° mitre on the adjoining Gutters (Figure 16.49).

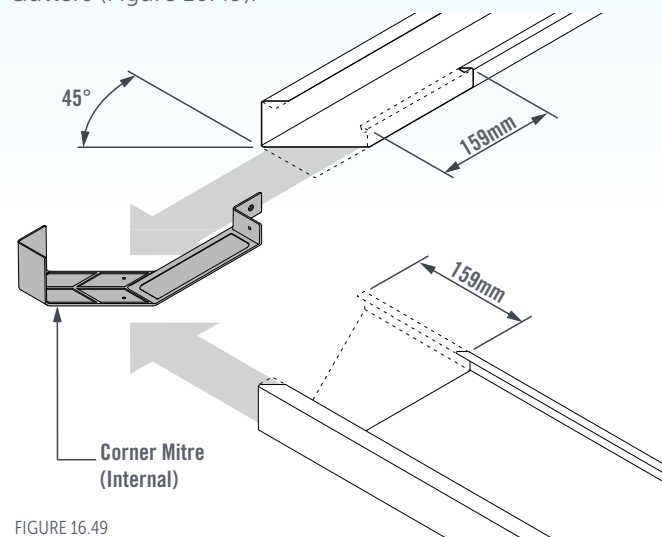


FIGURE 16.49

Fix the Internal Mitre to the Gutters using Ø3.2mm sealed rivets through the pilot holes, and seal inside the Gutter with silicone (Figure 16.50).

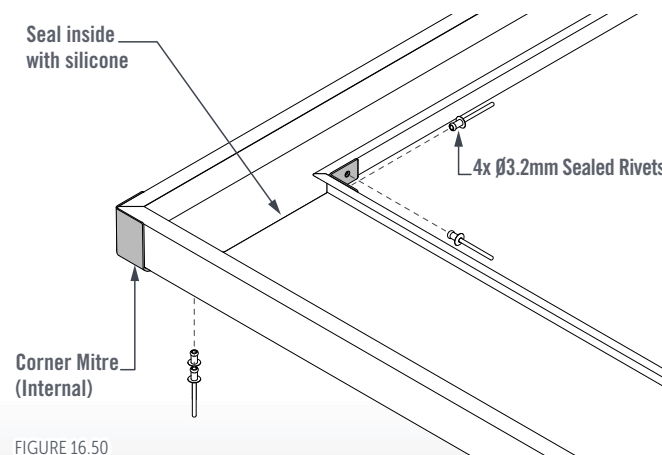


FIGURE 16.50

SKIP BACK TO;
Gutter Preparation - Page 8.3

VALLEY GUTTER INSTALLATION OUTBACK DECK & CGI VALLEY GUTTER

Position the Valley Gutter on the Valley Support Flashing but do not fix in-place yet (Figure 16.51). Ensure the Valley Gutter is butted up against the Ridge-to-Rafter Beam Assembly (Figures 16.52 & 16.53).

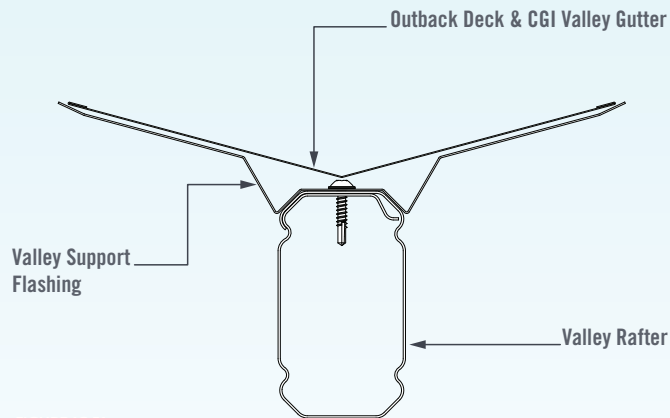


FIGURE 16.51

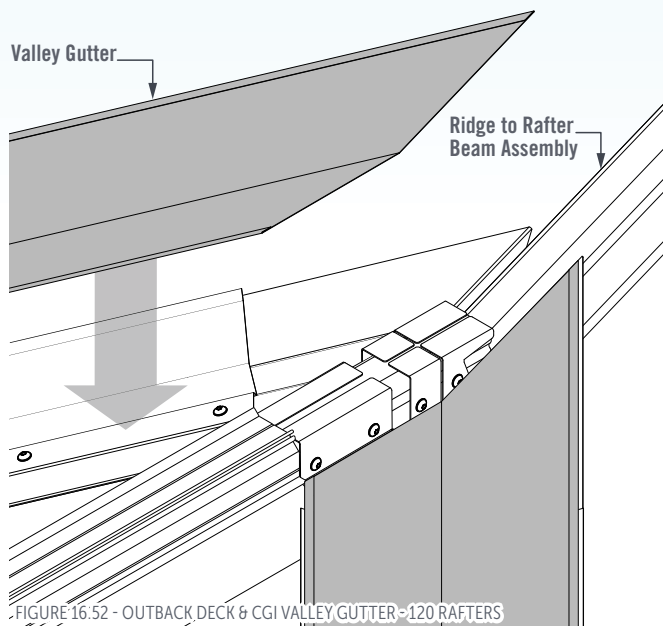


FIGURE 16.52 - OUTBACK DECK & CGI VALLEY GUTTER - 120 RAFTERS

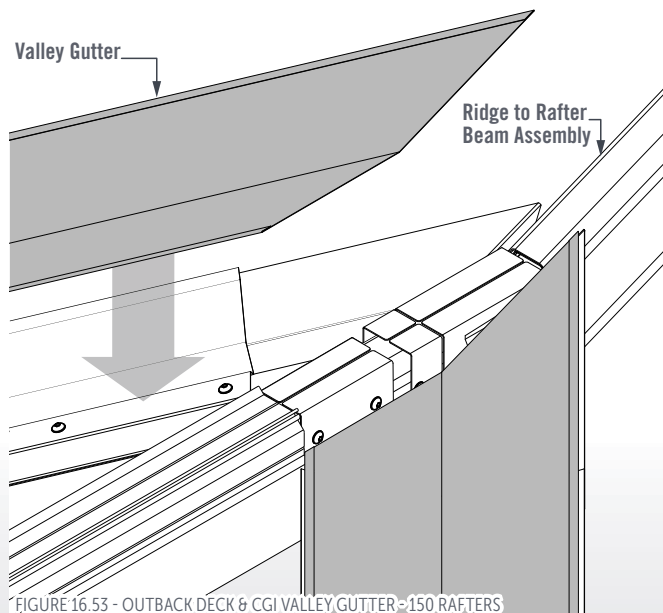


FIGURE 16.53 - OUTBACK DECK & CGI VALLEY GUTTER - 150 RAFTERS

Position the Valley Gutter on the Valley to Beam Support. Ensure the Valley Gutter overhangs the Beam Cap into the Gutter by a minimum of 50mm (Figures 16.54 & 16.55).

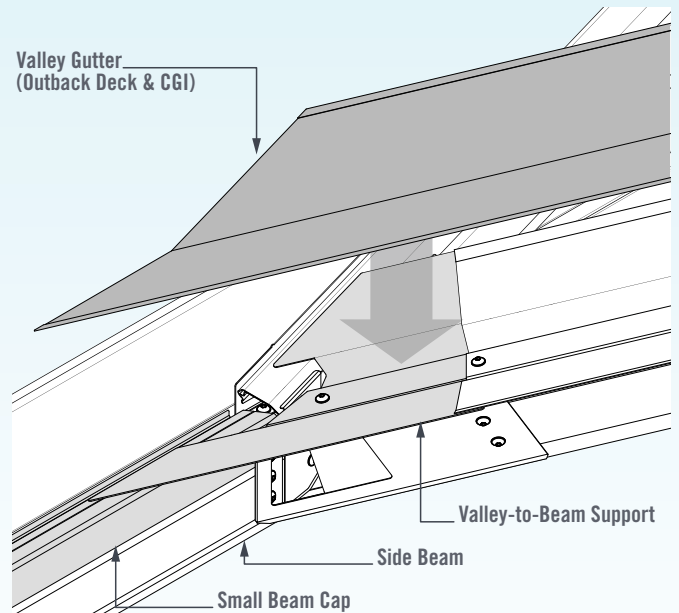


FIGURE 16.54 - OUTBACK DECK & CGI VALLEY GUTTER - SMALL BEAM CAP

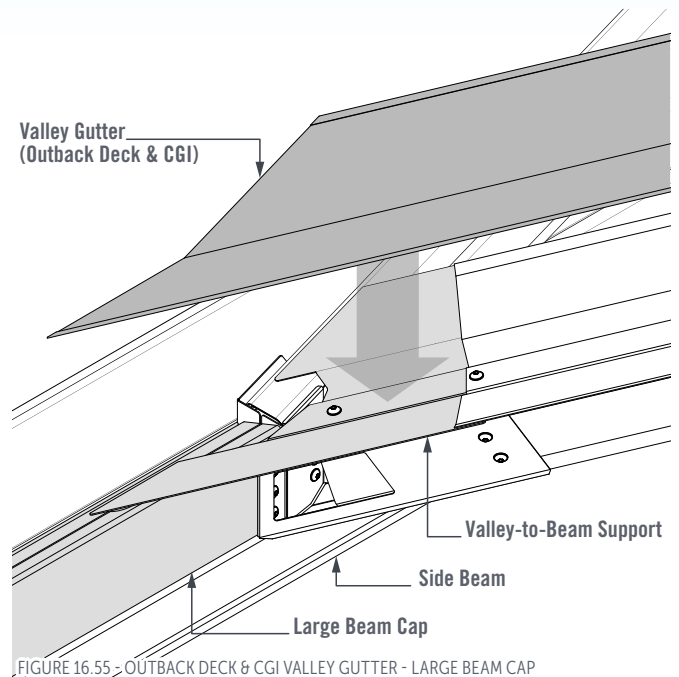


FIGURE 16.55 - OUTBACK DECK & CGI VALLEY GUTTER - LARGE BEAM CAP

VALLEY GUTTER INSTALLATION
COOLDEK VALLEY GUTTER

Position the Valley Gutter on the Valley Support Flashing but do not fix in-place yet (Figure 16.56). Ensure the Valley Gutter is butted up against the Ridge-to-Rafter Beam Assembly (Figures 16.57 & 15.58).

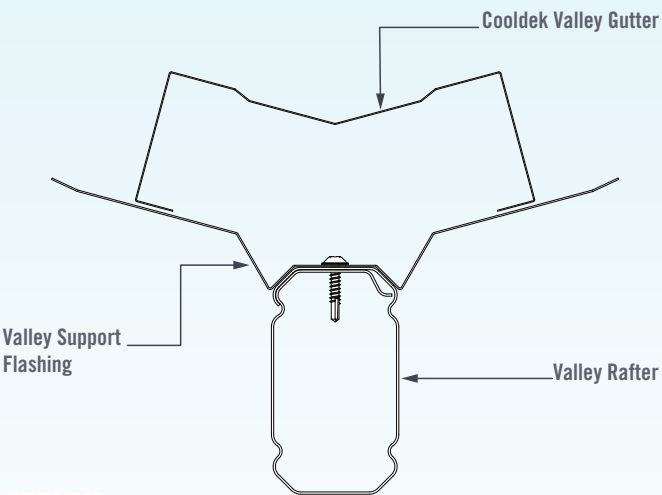


FIGURE 16.56

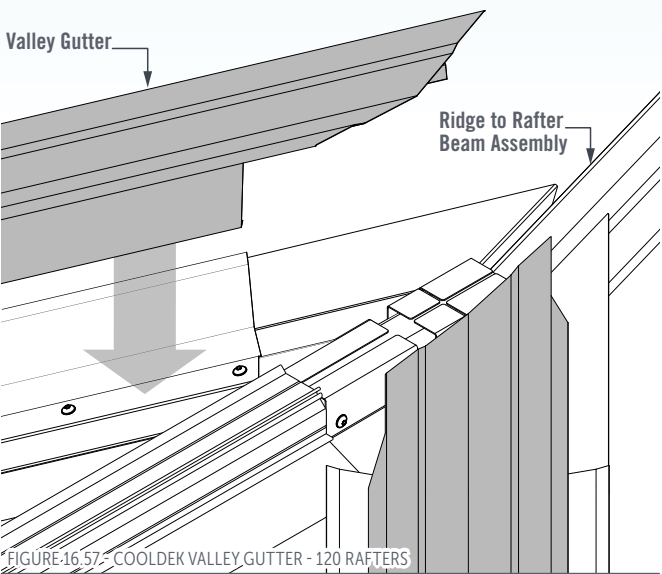


FIGURE 16.57 - COOLDEK VALLEY GUTTER - 120 RAFTERS

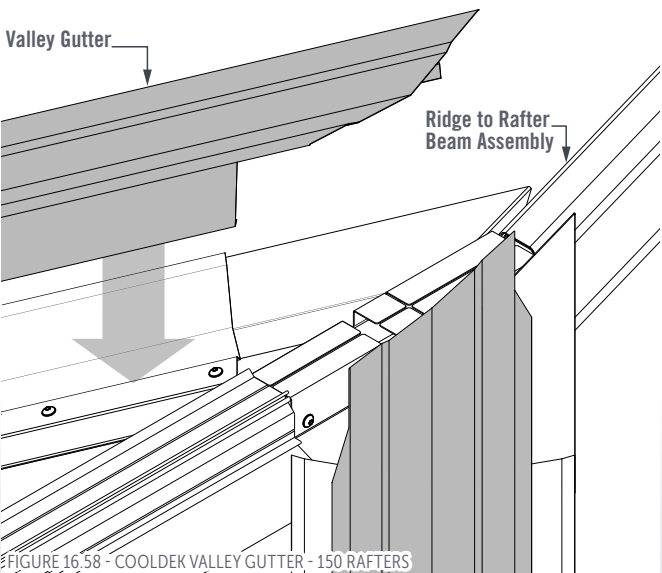


FIGURE 16.58 - COOLDEK VALLEY GUTTER - 150 RAFTERS

Position the Valley Gutter on the Valley to Beam Support. Ensure the Valley Gutter overhangs the Beam Cap into the Gutter by a minimum of 50mm (Figures 16.59 & 16.60).

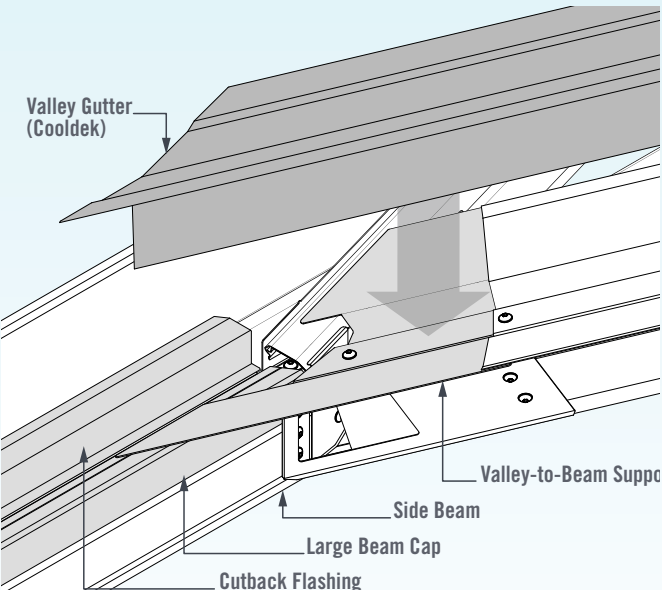


FIGURE 16.59 - COOLDEK VALLEY GUTTER - SMALL BEAM CAP

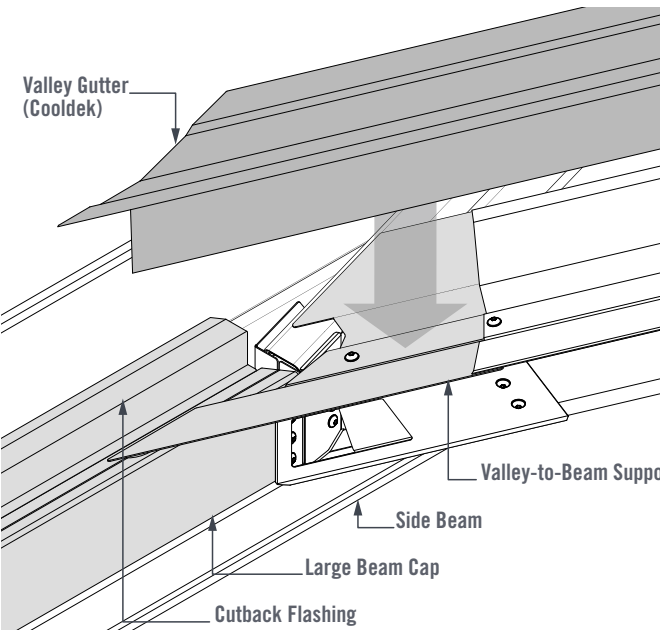


FIGURE 16.60 - COOLDEK VALLEY GUTTER - LARGE BEAM CAP

ROOFING INSTALLATION

Prepare the roof sheets for the Minor Gable section (refer to "Roofing Installation (Return Units)" on page 15.22).

Prepare the Roof Sheets for the Major Gable section (Figure 16.61 & "Roofing Installation (Return Units)" on page 15.22).

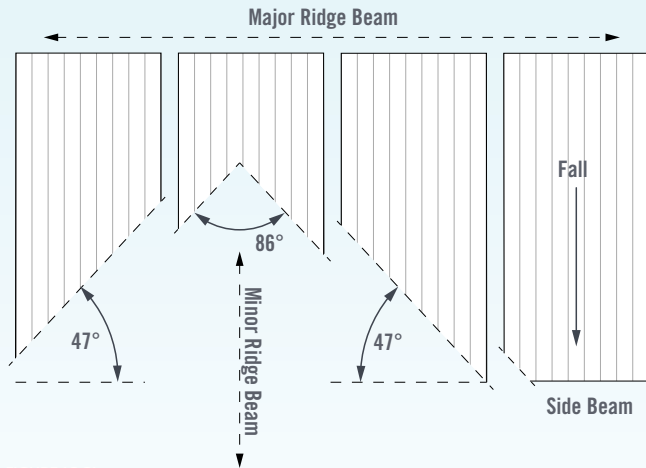


FIGURE 16.61

FOR FURTHER DETAIL REFER TO;
Roofing Installation (Return Units) - Page 15.22

MINOR GABLE RIDGE CAP PREPARATION

Measure, mark and trim 50mm tabs on the end of the Minor Gable Ridge Cap (Figure 16.62).

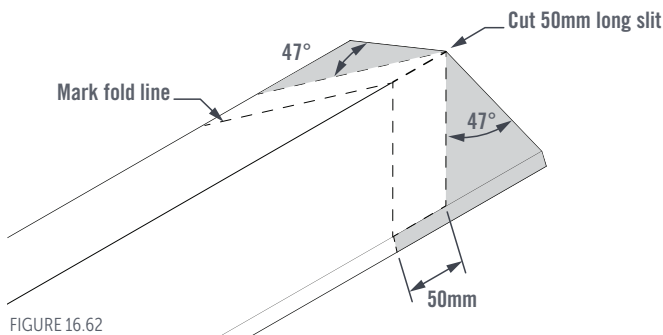


FIGURE 16.62

Fold the tabs on the end of the Ridge Cap up 22° (Figure 16.63) to allow it to tuck under the Major Gable Roof Sheets to prevent water ingress.

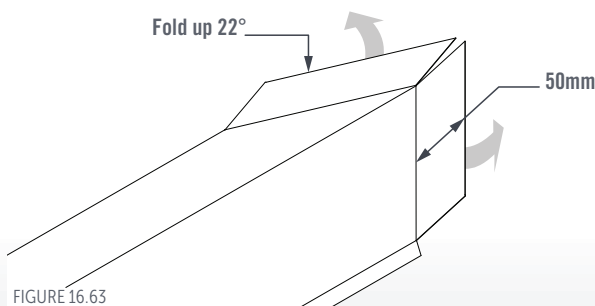


FIGURE 16.63

MINOR GABLE RIDGE CAP INSTALLATION

Slide the folded end of the Minor Gable Ridge Cap under the roof sheets of the Major Gable section (Figure 16.64 to 16.66).

FOR FURTHER DETAIL REFER TO;
Ridge Cap Installation - Page 12.2

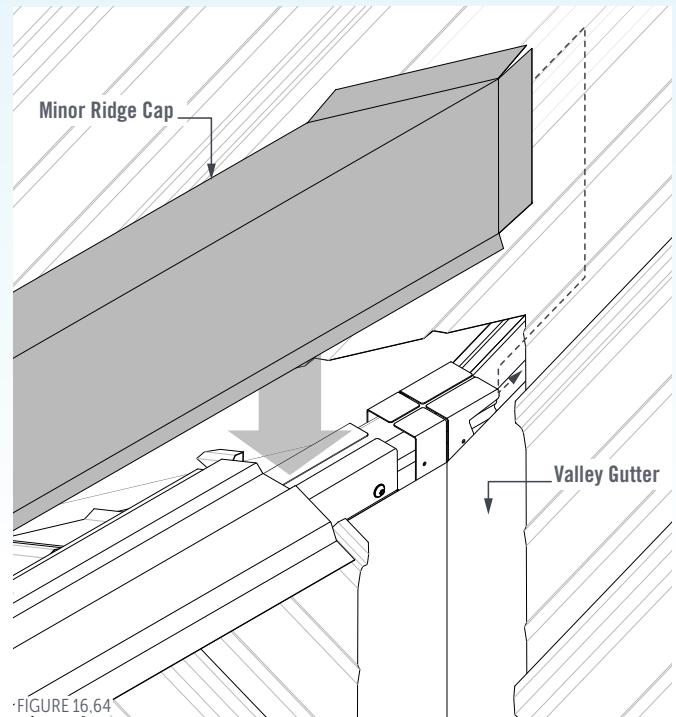


FIGURE 16.64

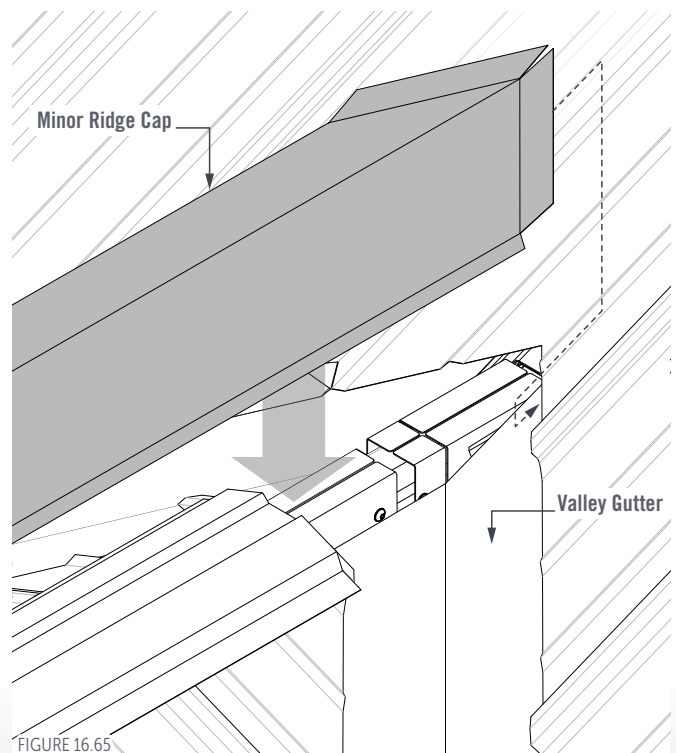
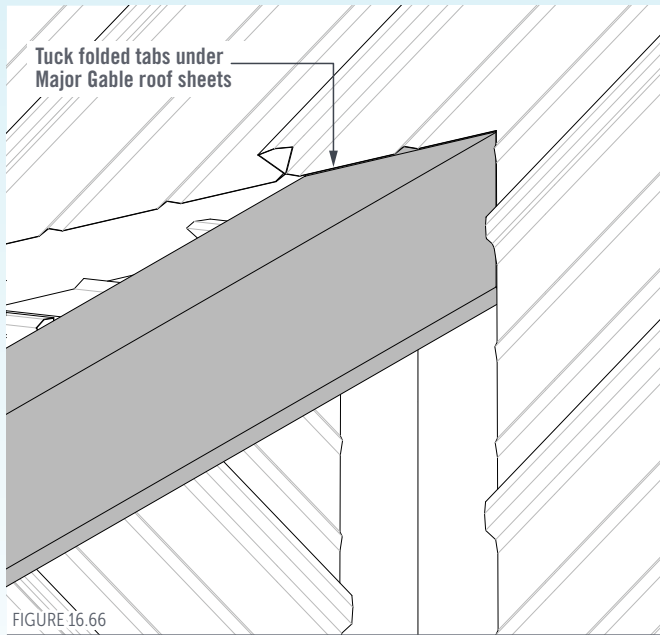


FIGURE 16.65



Fix the Minor Gable Ridge Cap as specified in the Flashing Installation Section on Page 12.2.

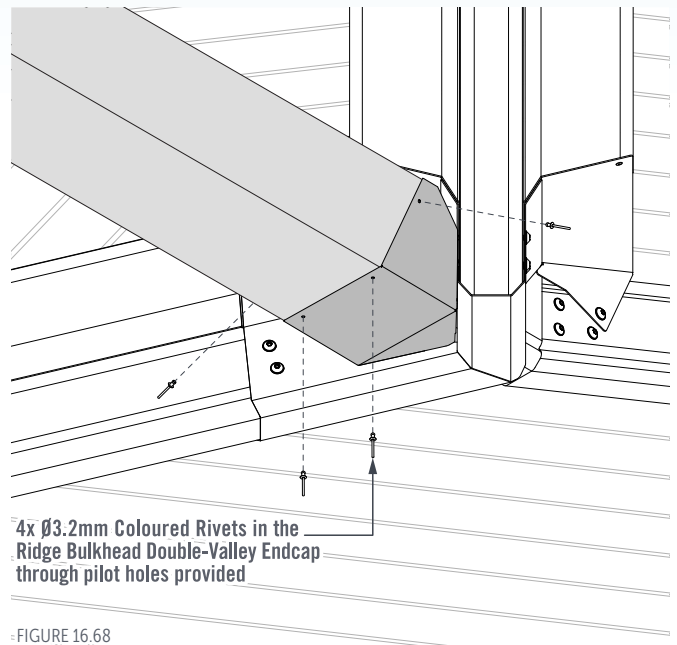
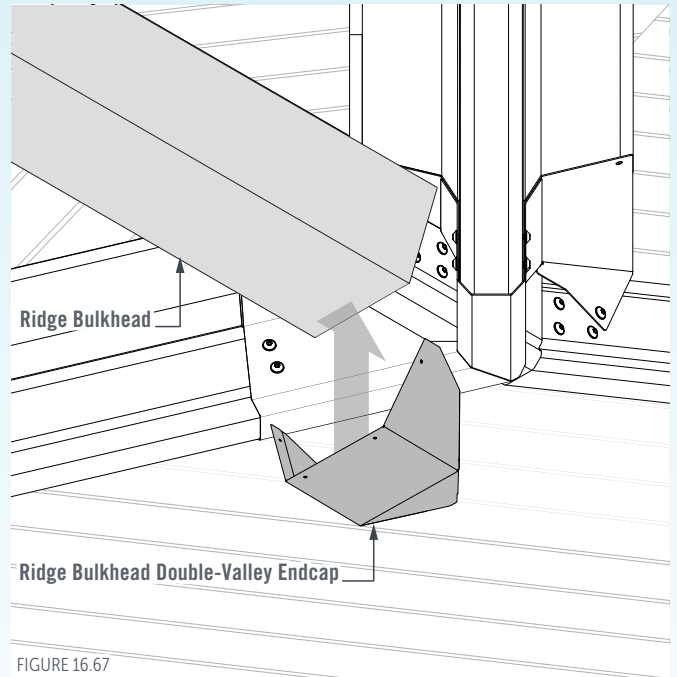
RIDGE BULKHEAD INSTALLATION

FOR FURTHER DETAIL REFER TO;
Ridge Bulkhead Installation - Page 13.1

Fix the Ridge Bulkhead Flashings to the Ridge Bulkhead Support Brackets (refer to Figure 13.11 on Page 13.4).

Position the Double-Valley Endcap over the Ridge Bulkhead Flashings and ensure it is hard against the corner of the Valley Rafters (Figure 16.67).

Fix the Double-Valley Endcap to the Ridge Bulkhead Flashing using 4x Ø3.2 coloured rivets through the pilot holes provided (Figure 16.68).



17. INTERSECTING GABLE

INTERSECTING RIDGE-TO-RAFTER BRACKET INSTALLATION

Measure and mark the location of the Intersecting Ridge Beam and the Rafter along the Major Ridge Beam.

Ensure the Beam to Beam Bracket and Split Rafter Bracket locations are aligned.

Fix the Beam-to-Beam Bracket to the Major Ridge Beam using 2x Outback Self-Drilling Screws through the pilot holes provided (Figure 17.0).

Fix the Split Rafter Bracket on the opposing side of the Major Ridge Beam using Outback Self-Drilling Screws through the pilot holes provided (Figure 17.1).

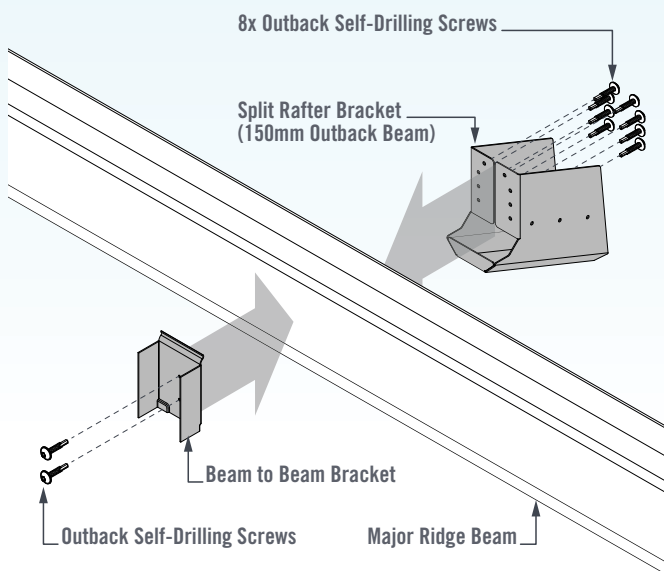


FIGURE 17.0

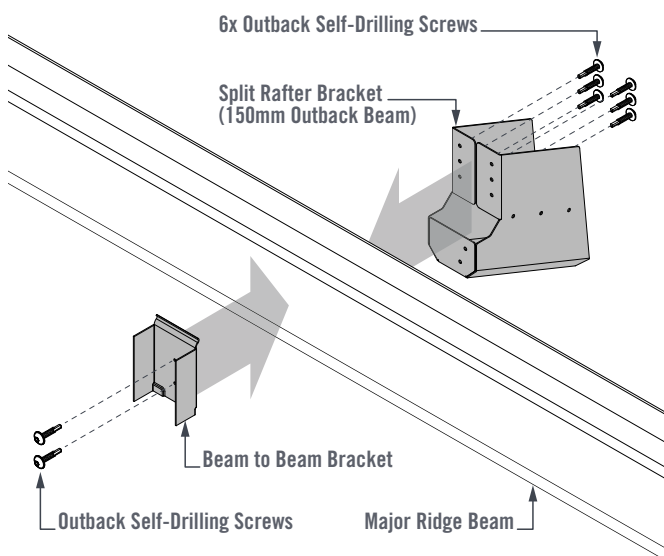


FIGURE 17.1

INTERSECTING RIDGE BEAM INSTALLATION

Measure, mark and pre-drill the screw holes in each side of one end of the Intersecting Ridge Beam (Figures 17.2 & 17.3). These screw locations are crucial to avoid interference with the Valley to Intersecting Ridge Bracket.

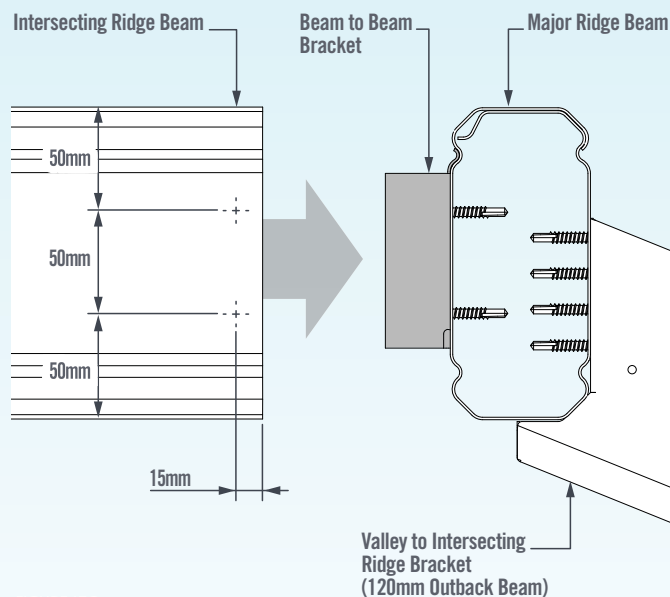


FIGURE 17.2

Lift the Intersecting Ridge Beam into position on the Beam to Beam Bracket (Figure 17.3).

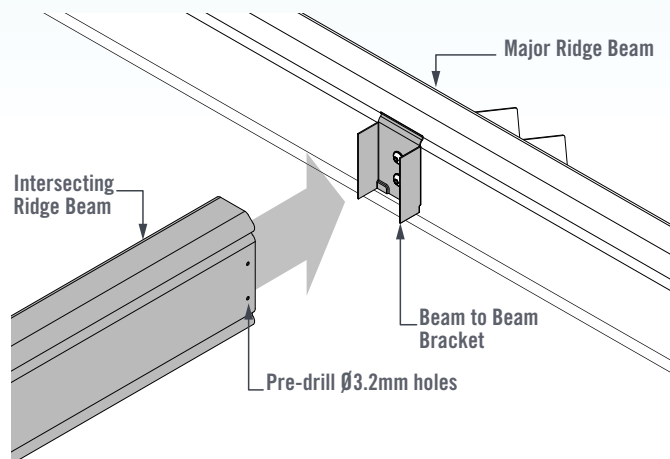


FIGURE 17.3

Fix the Intersecting Ridge Beam to the Beam to Beam Bracket using 2x Outback Self-Drilling Screws through the pre-drilled holes in each side (Figure 17.4).

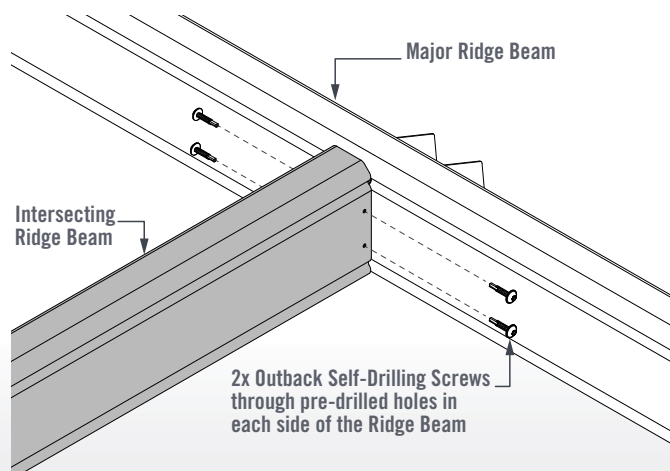


FIGURE 17.4

SPLIT RAFTER INSTALLATION

Lift the Split Rafter into position in the Split Rafter Bracket and the Rafter to Beam Bracket (Figure 17.6).

NOTE:

Refer to *Section 05 - Rafter Installation* for further detail on the Rafter-to-Beam Connection.

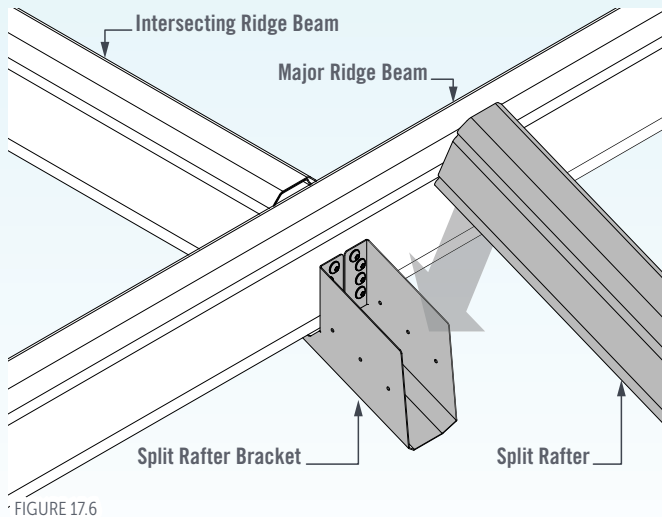


FIGURE 17.6

Ensure the Split Rafter is fully seated in the Split Rafter Bracket and the Rafter to Beam Bracket. Fix the Split Rafter in-place using 6x Outback Self-Drilling Screws through the pilot holes provided (Figure 17.7).

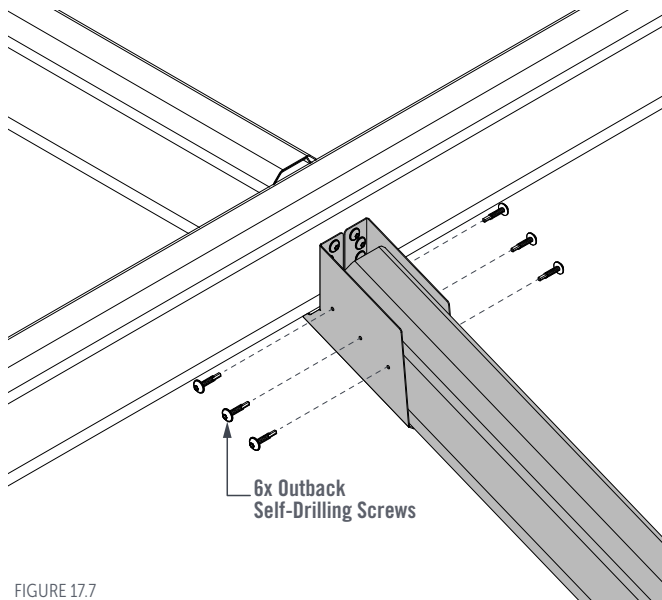


FIGURE 17.7

VALLEY TO INTERSECTING RIDGE BRACKET INSTALLATION

Position the Valley to Intersecting Ridge Brackets in the corners of Ridge Intersection. Ensure that the bottom of each bracket is nested against the bottom of the Ridge Beams (Figures 17.8 & 17.9).

Fix each Valley to Intersecting Ridge Bracket to the Ridge Beams using 8x Outback Self-Drilling Screws through the pilot holes provided (Figures 17.8 & 17.9).

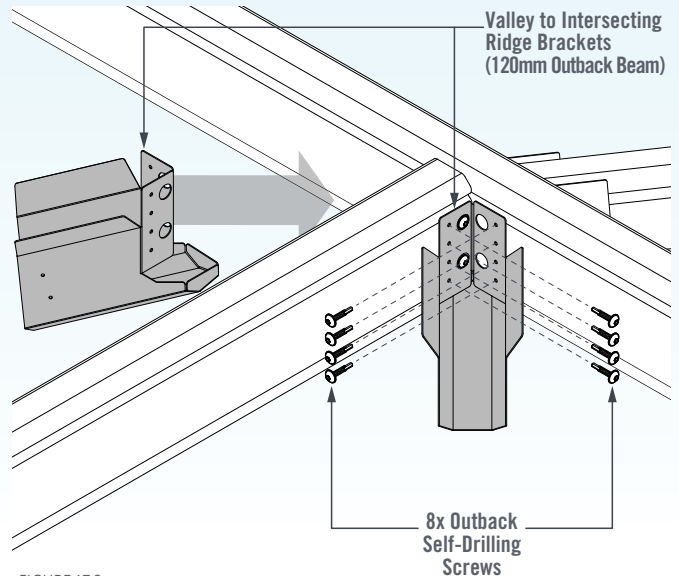


FIGURE 17.8

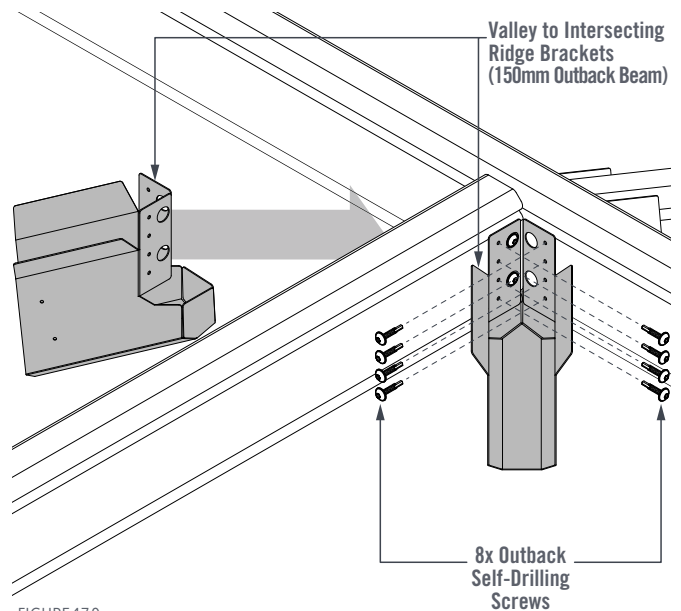
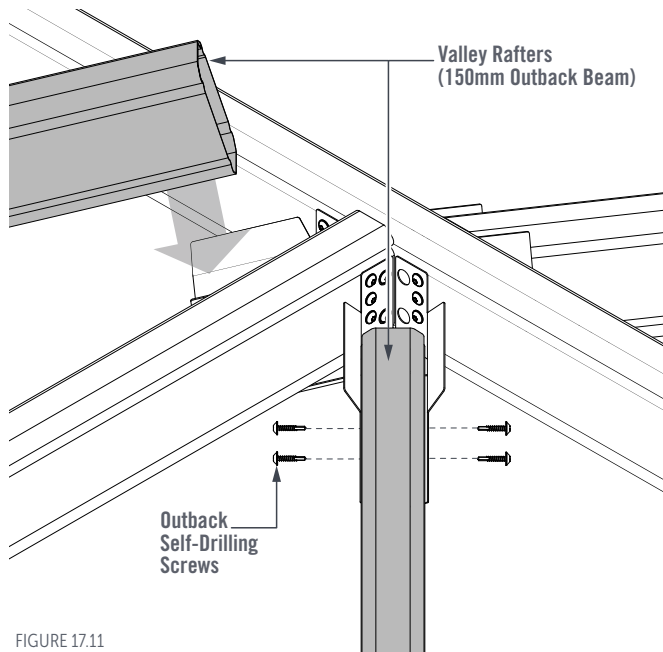
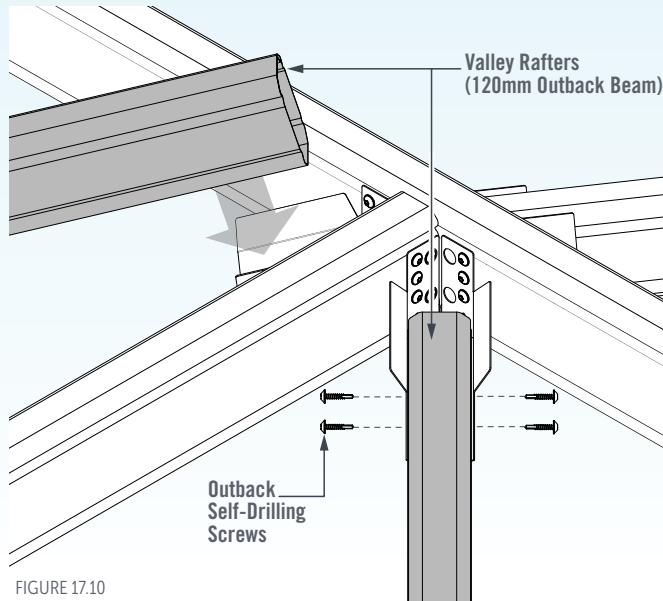


FIGURE 17.9

VALLEY RAFTER INSTALLATION

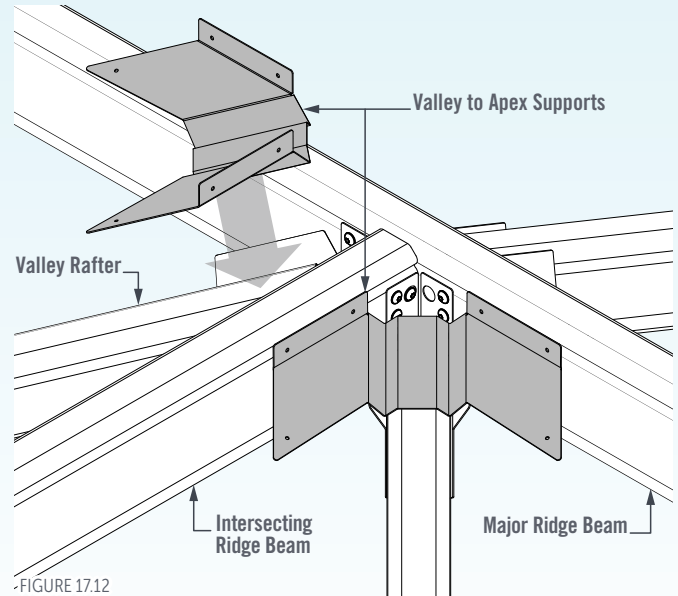
Lift each Valley Rafter into position so that it sits firmly in the bottom of the Valley to Intersecting Ridge Bracket and the Valley-to-Corner Bracket (Figures 17.10 & 17.11).

Fix each Valley Rafter to the Valley to Intersecting Ridge Brackets using 4x Outback Self-Drilling Screws through the pilot holes provided (Figures 17.10 & 17.11).



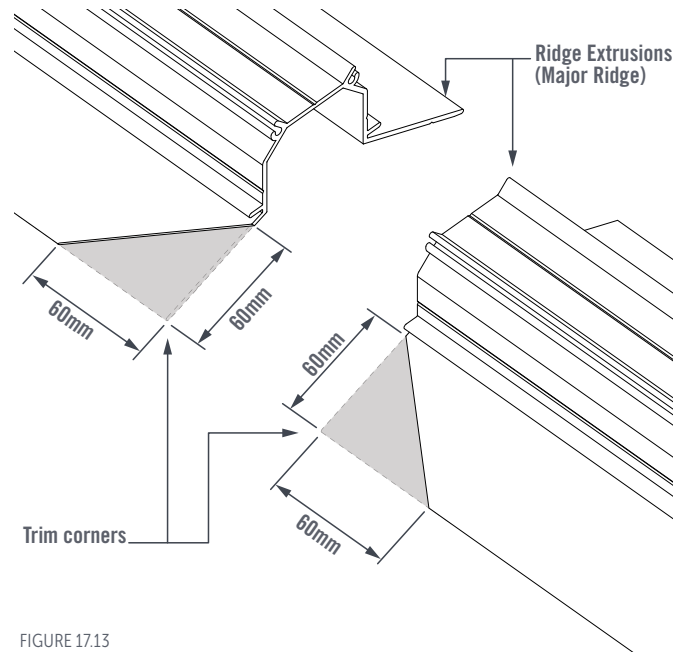
VALLEY TO APEX SUPPORT

Position the Valley-to-Apex Supports at the top of the Valley Rafters so that they rest against the Intersecting and Major Ridge Beams (Figure 17.12).



RIDGE EXTRUSION PREPARATION

Trim the corners of the Major Ridge Extrusions, using a hacksaw, to avoid interference in the valleys (Figure 17.13).



Trim the corners of the Intersecting Minor Ridge Extrusion, using a hacksaw, to avoid interference in the Valleys (Figure 17.14).

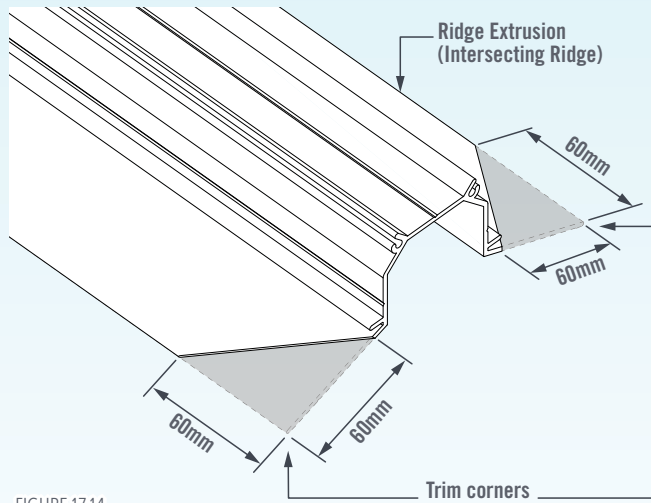


FIGURE 17.14

RIDGE EXTRUSION INSTALLATION

Place the Ridge Extrusions on the Ridge Beams so that the trimmed corners are positioned over each of the Valley Rafters and over the Split Rafter (Figure 17.15).

Push the Ridge Extrusions down firmly over the top of the vertical tabs of the Valley to Apex Supports (Figure 17.15).

NOTE:

Refer to *Section 6 - Ridge Installation* for Ridge Extrusion fixing details.

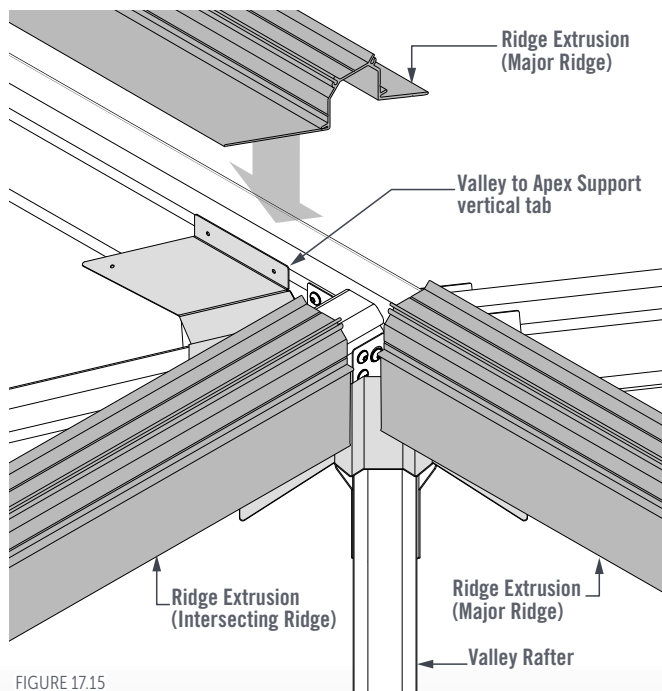


FIGURE 17.15

SKIP BACK TO;

Valley Rafter Preparation - Page 15.15

INTERSECTING RIDGE BULKHEAD INSTALLATION

FOR FURTHER DETAIL REFER TO;

Ridge Bulkhead Installation - Page 13.1

Measure, mark, and trim the 45° Left-Hand and Right-Hand Mitres on each Ridge Bulkhead Flashing (Figures 17.16 & 17.17).

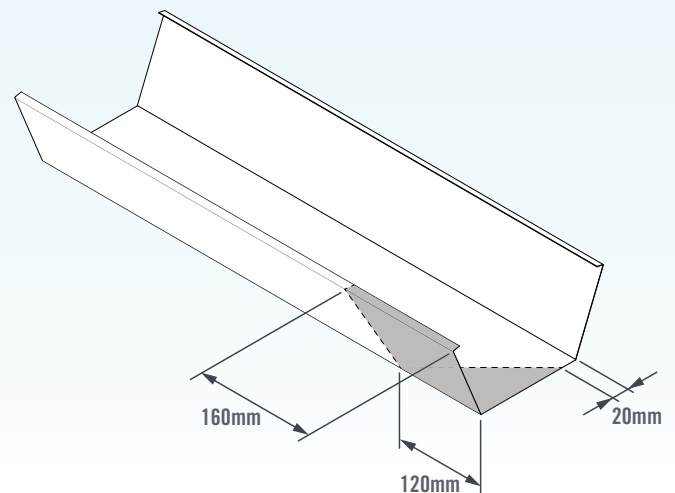


FIGURE 17.16

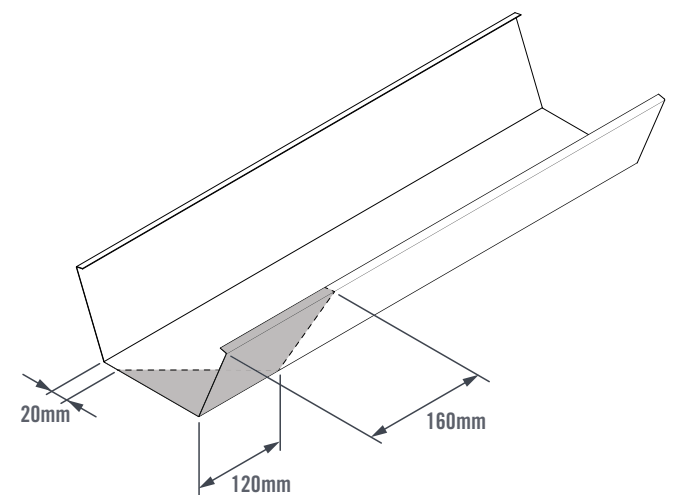


FIGURE 17.17

Perform a test-fit and ensure the Bulkhead Flashings are within 20mm of the rafters at each end.

Fix the Ridge Bulkhead Flashings to the Ridge Bulkhead Support Brackets (refer to Figure 13.11 on Page 13.4).

Position the Endcaps over the Ridge Bulkhead Flashings and ensure they are hard against the corner of the Split Rafter and Valley Rafter (Figure 17.18).

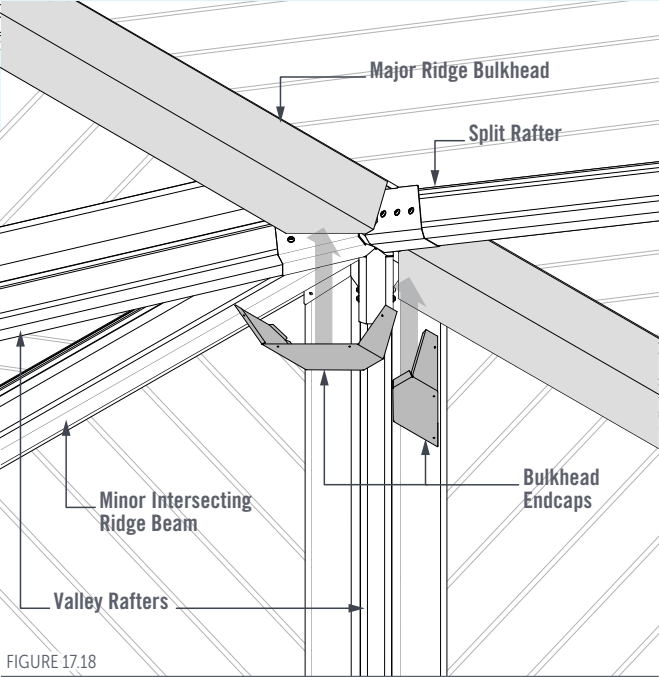


FIGURE 17.18

Fix the Double-Valley Endcap to the Ridge Bulkhead Flashing using 4x Ø3.2 coloured rivets through the pilot holes provided (Figure 17.19).

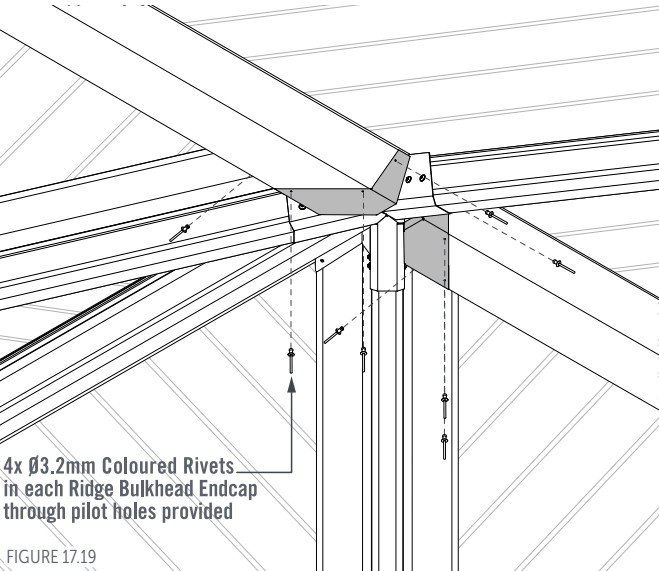


FIGURE 17.19

Position the Double-Valley Endcap over the Intersecting Ridge Bulkhead Flashing and ensure it is hard against the corner of the Valley Rafters (Figure 17.20).

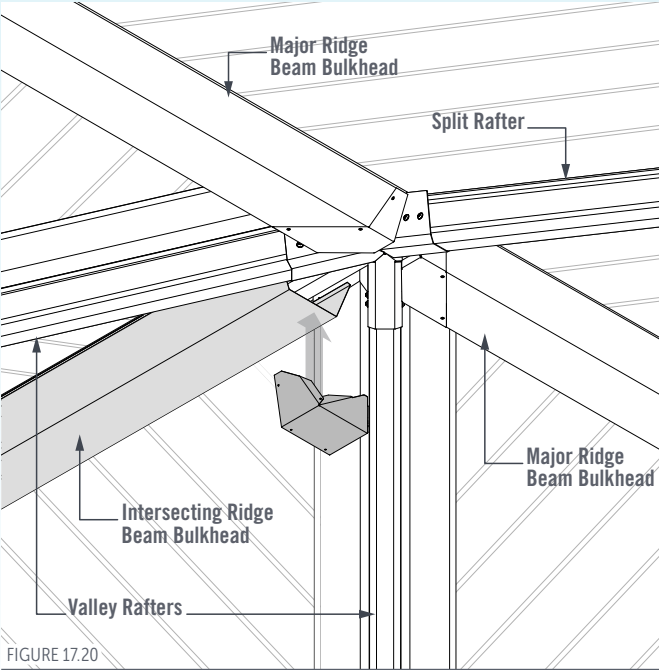


FIGURE 17.20

Fix the Double-Valley Endcap to the Ridge Bulkhead Flashing using 4x Ø3.2 coloured rivets through the pilot holes provided (Figure 17.21).

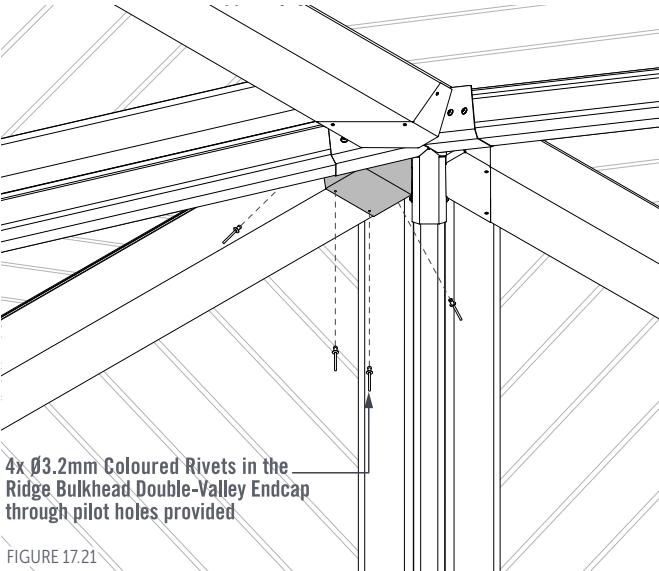
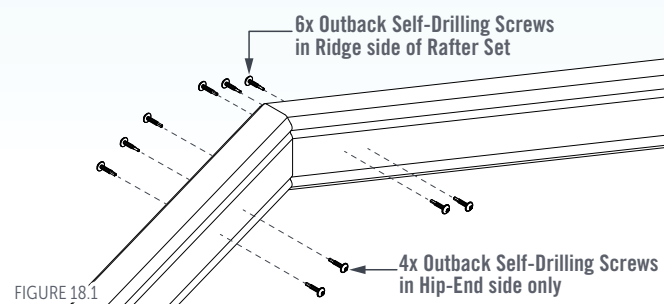
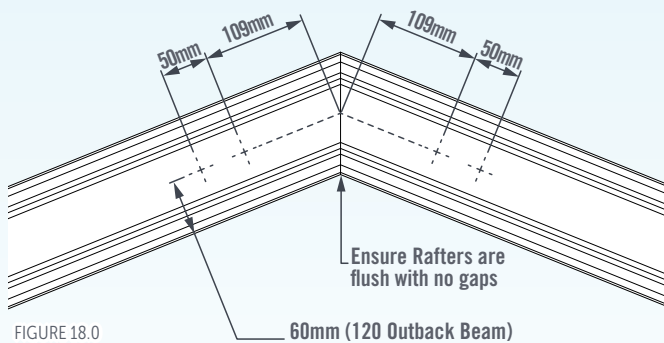


FIGURE 17.21

18. HIP-END GABLE

RAFTER SET ASSEMBLY (HIP-END) 120 OUTBACK BEAM KNUCKLE ASSEMBLY (HIP-END SIDE OF RAFTER SET ONLY)

The internal side of the 120 Rafter Set will be fixed using typical screws spacings (Refer Section 03 - Figures 3.1 & 3.3). Measure and mark the screw locations along the middle of the Rafters on the Hip-End side at 60mm from the top/bottom face of the 120 Outback Beam (Figures 18.0 & 18.1). Space screws 109mm from the centre join and 50mm between screws (Figures 18.0 & 18.1).

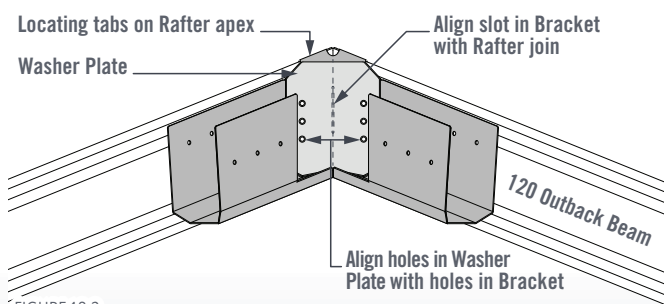


SKIP BACK TO;
Knuckle Assembly - Page 3.2

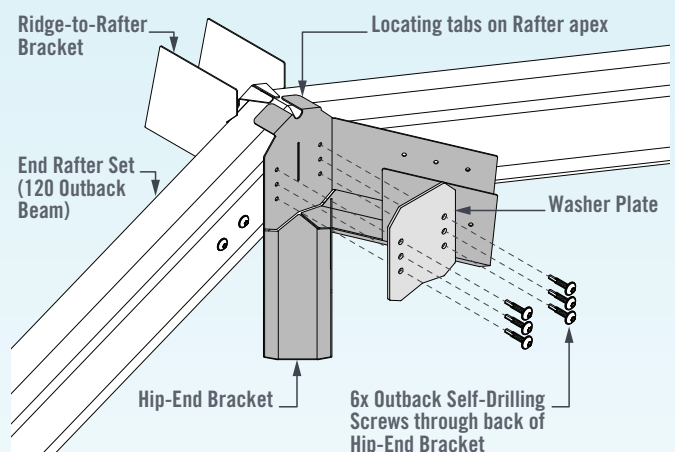
HIP-END BRACKET INSTALLATION 120 OUTBACK BEAM RAFTERS

Position the Gable Hip-End Bracket at the apex of the end Rafter Set so that the locating tabs rest on the top face of the Rafters (Figure 18.2).

Ensure the Hip-End Bracket is vertical by aligning the slot in the back face of the bracket with the join in the Rafter Set and Position the Washer plate on the back face of the Bracket so that the pilot holes align (Figures 18.2 & 18.3).



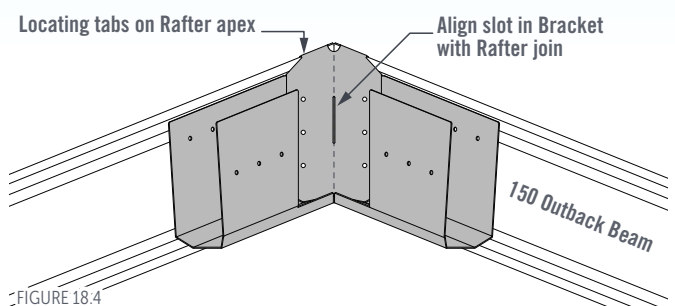
Fix the Gable Hip-End Bracket to the End Rafter Set using 6x Outback Self-Drilling Screws through the pilot holes in the Washer Plate and the back of the Bracket (Figure 18.3).



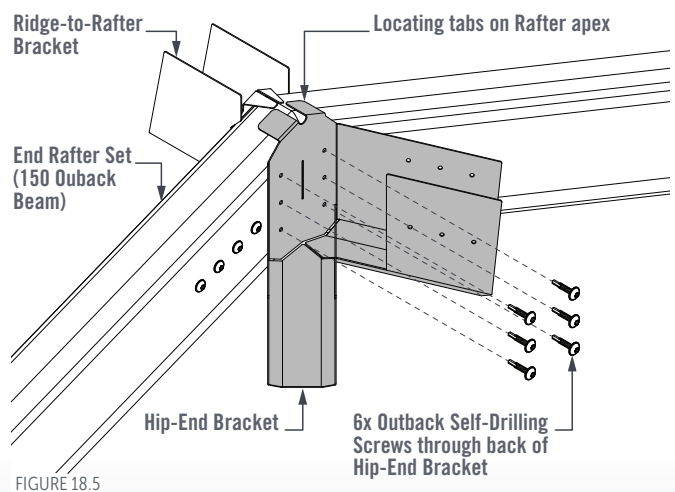
150 OUTBACK BEAM RAFTERS

Position the Gable Hip-End Bracket at the apex of the end Rafter Set so that the locating tabs rest on the top face of the Rafters (Figures 18.4 & 18.5).

Ensure the Hip-End Bracket is vertical by aligning the slot in the back face of the bracket with the join in the Rafter Set (Figures 18.4 & 18.5).



Fix the Gable Hip-End Bracket to the End Rafter Set using 6x Outback Self-Drilling Screws through the pilot holes in the back of the Bracket (Figure 18.5).



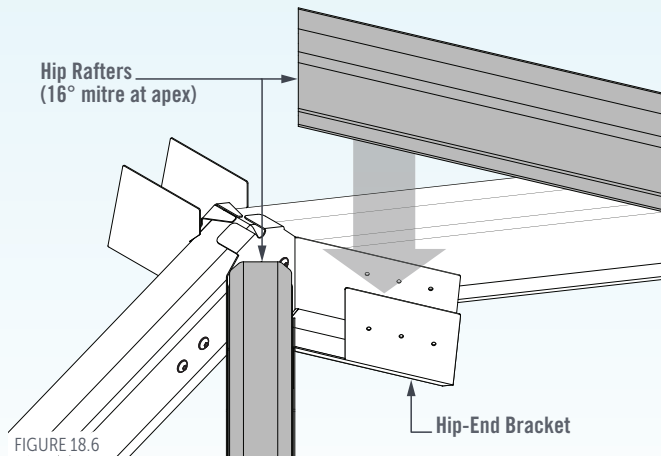
SKIP BACK TO;
Column Installation - Page 4.1

HIP-END RAFTER INSTALLATION

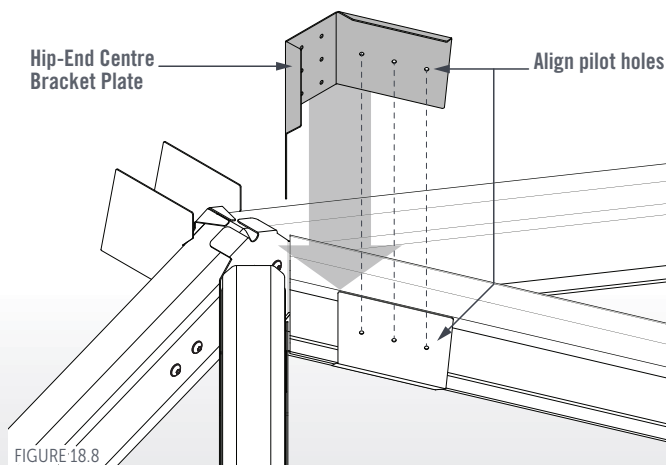
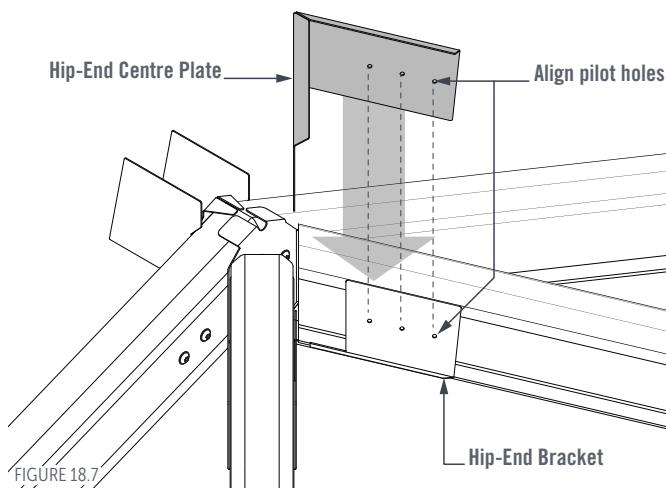
Place the 16° Rafters in the Gable Hip-End Bracket and Hip Corner Brackets so that the double thickness of the Outback Beam is facing up (Figure 18.6).

IMPORTANT NOTE:

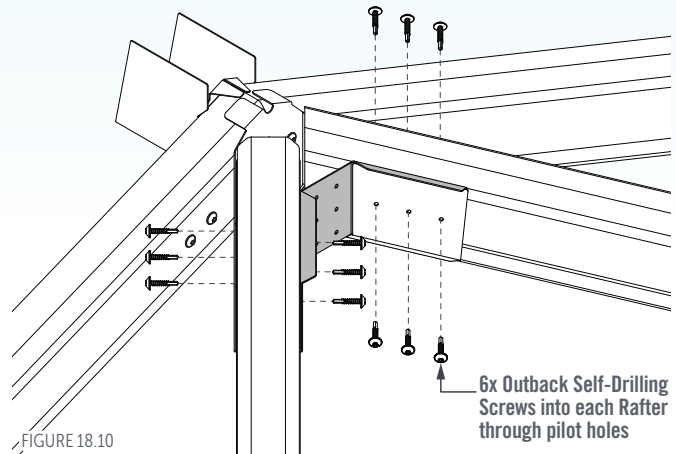
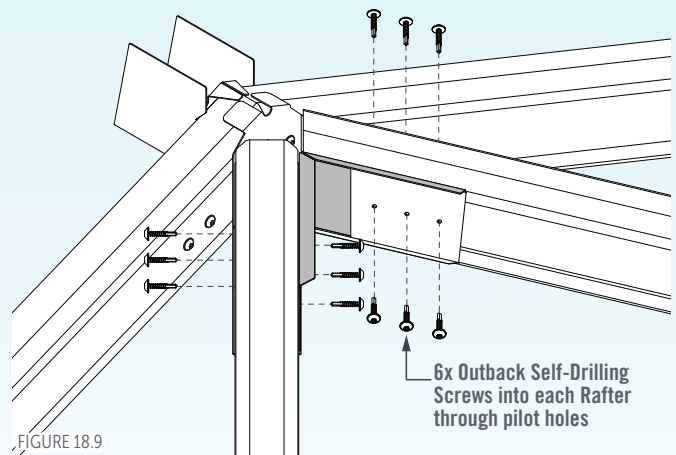
This process is the same for both 120 Outback Beam and 150 Outback Beam.



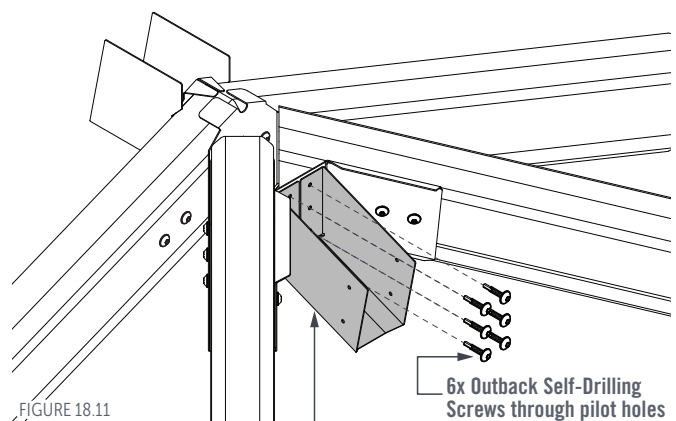
Slide the Hip-End Centre Plate or Hip-End Centre Bracket Plate between the Rafters and the Gable Hip-End Bracket so that the pilot holes align (Figure 18.7 or 18.8).



Fix the Rafters in-place using Outback Self-Drilling Screws in each side of the Gable Hip-End Bracket through the pilot holes provided (Figure 18.9 or 18.10).

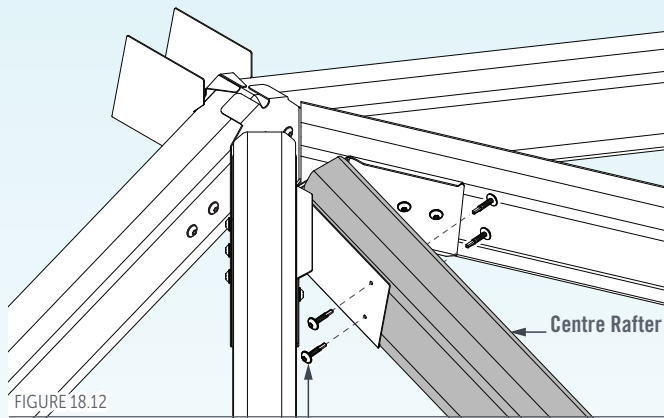


Align the pilot holes on the Hip-End Centre Bracket and Centre Bracket Plate. Fix the Centre Bracket to the Centre Bracket Plate using 6x Outback Self Drilling Screws through the pilot holes (Figure 18.11).



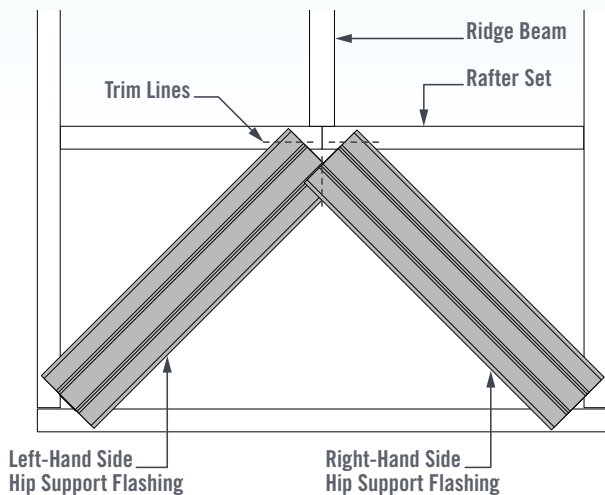
Position the Hip-End Centre Rafter with the 22° mitred end in the Hip-End Centre Bracket and the Rafter-to-Beam Bracket (Refer to Figures 5.24 to 5.29 on Page 5.6 for Rafter-to-Beam installation).

Fix the Centre Rafter in-place using Outback Self-Drilling Screws through the pilot holes in each side of the Hip-End Centre Bracket (Figure 18.12).

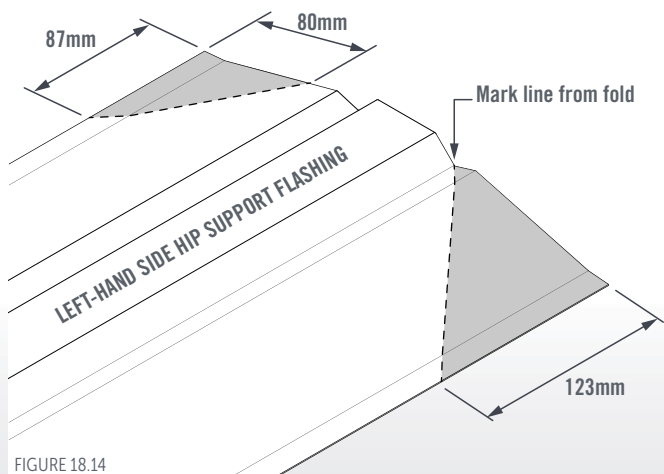


HIP SUPPORT FLASHING PREPARATION

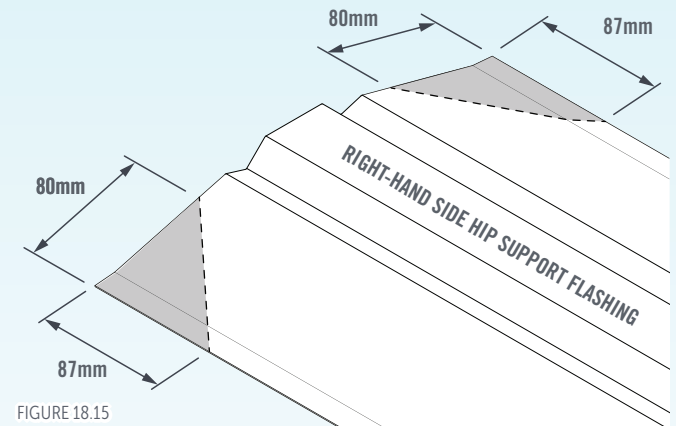
Hip Support Flashings need to be trimmed to avoid interference with other components (Figure 18.13).



Measure, mark, and trim the Left-Hand Side Hip Support Flashing (Figure 18.14).

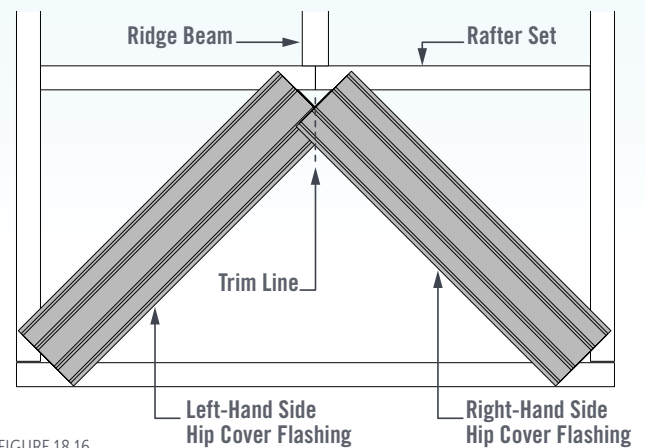


Measure, mark, and trim the Right-Hand Side Hip Support Flashing (Figure 18.15).

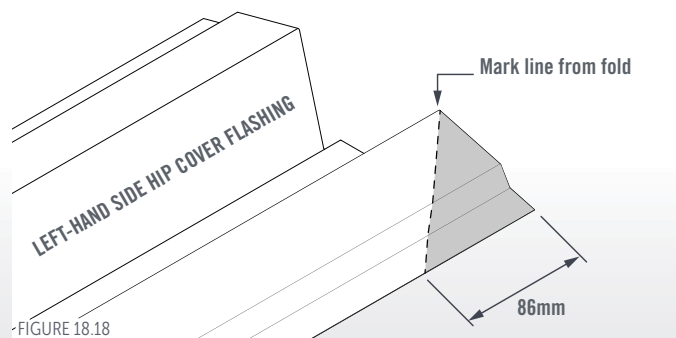
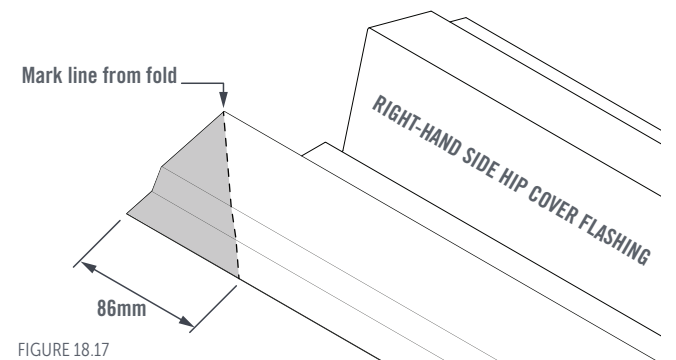


HIP COVER FLASHING PREPARATION

Hip Cover Flashings need to be trimmed to avoid interference with other components (Figure 18.13).



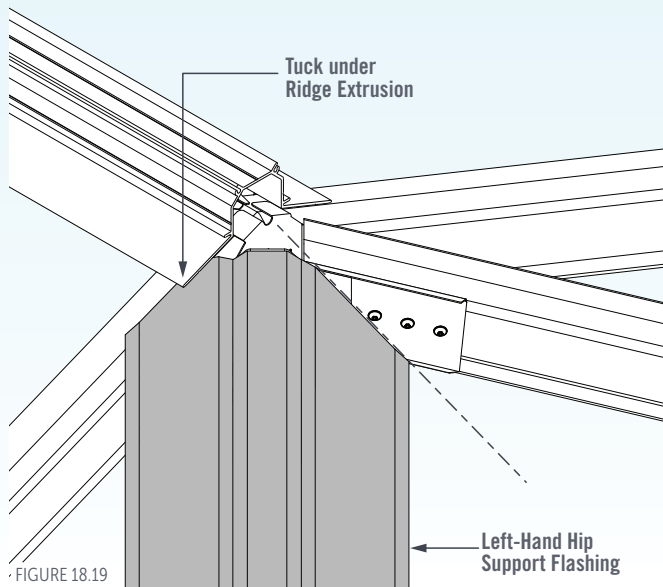
Measure, mark, and trim the Hip Cover Flashings so that they do not interfere with each other (Figures 18.16, 18.17 & 18.18).



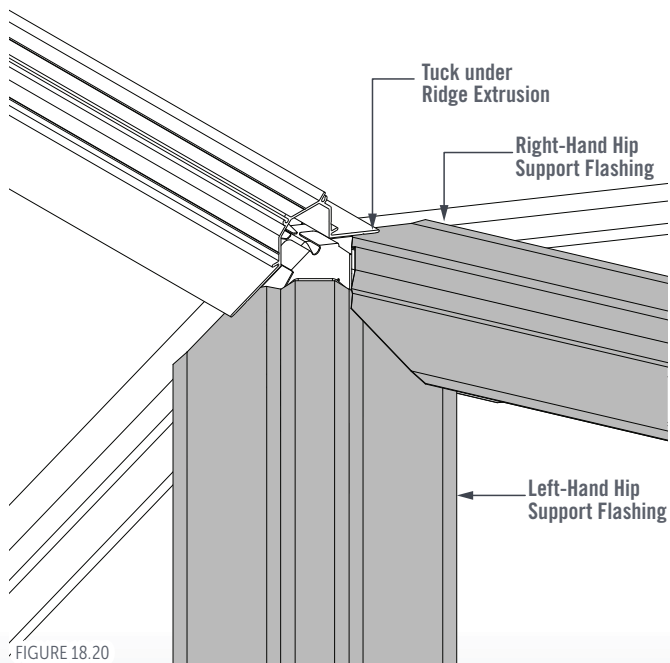
HIP SUPPORT FLASHING INSTALLATION

At the Ridge End of the Hip Rafter, the Left Hand Hip Support Flashing should rest atop the End Rafters and tuck under the Ridge Extrusion (Figure 18.19). Align the trimmed edges with the apex of the End Rafters.

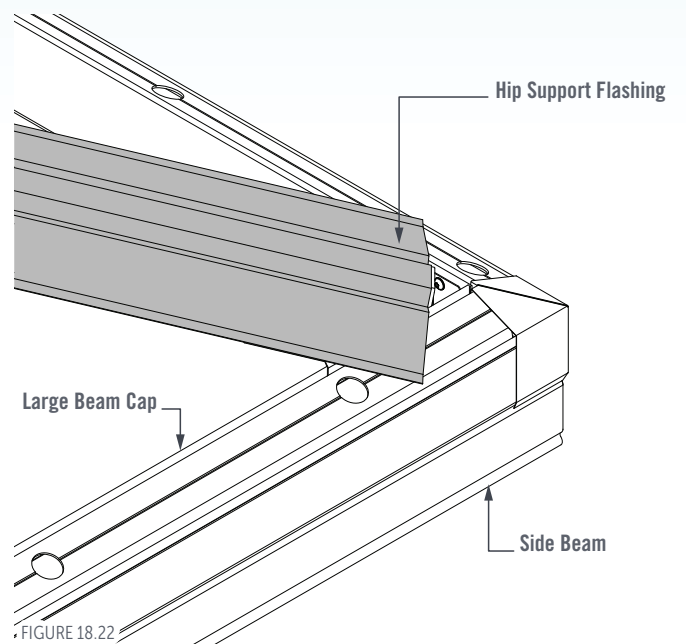
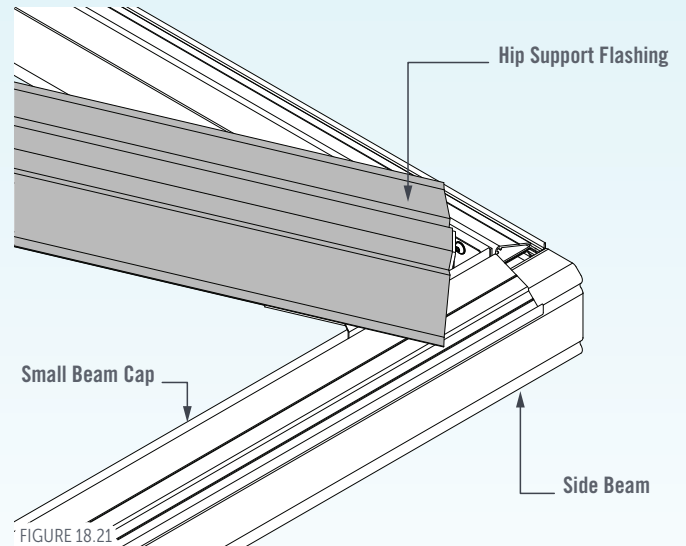
Do not fix the Left-Hand Hip Support Flashing to the Rafter yet.



Position the trimmed Right-Hand Side Hip Support Flashing on the Right-Hand Hip Rafter so that it rests on the Left-Hand Hip Support Flashing and the End Rafter, and tucks under the Ridge Extrusion (Figure 18.20).



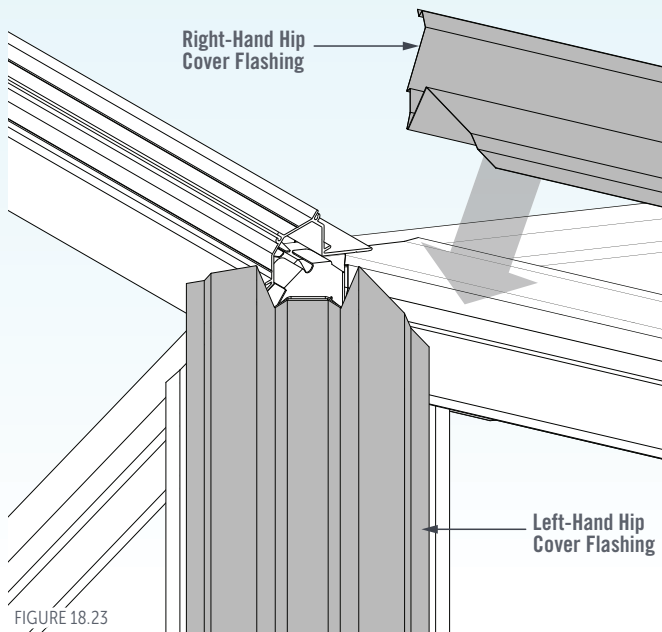
Position the Hip Support Flashing ensuring there is sufficient overlap onto the Beam Caps along the Side Beams (Figures 18.21 & 18.22).



HIP COVER FLASHING INSTALLATION

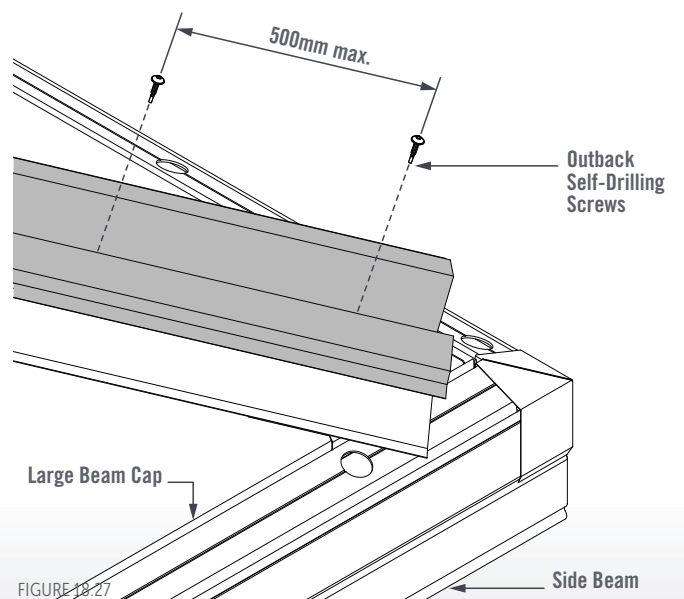
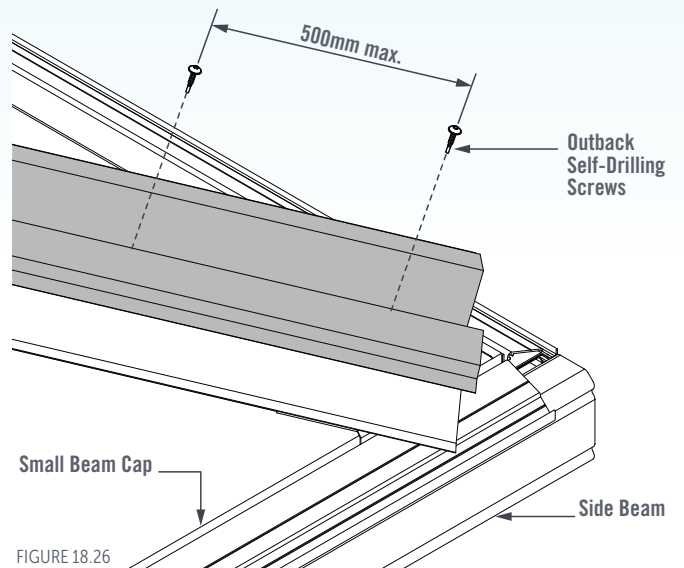
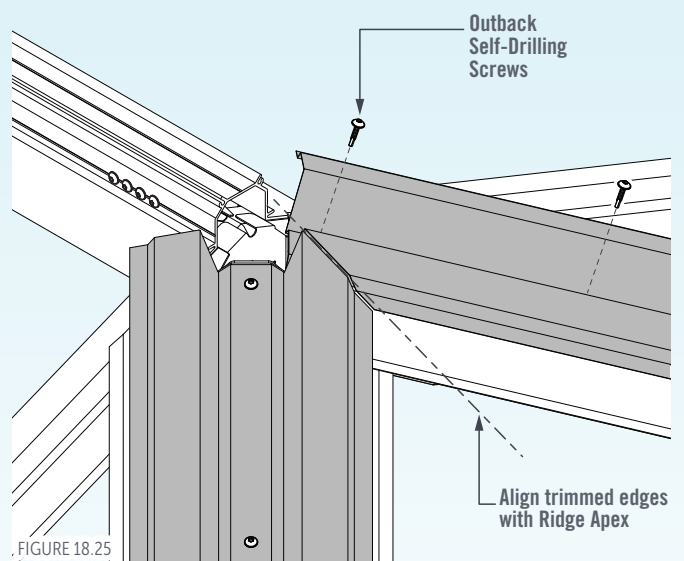
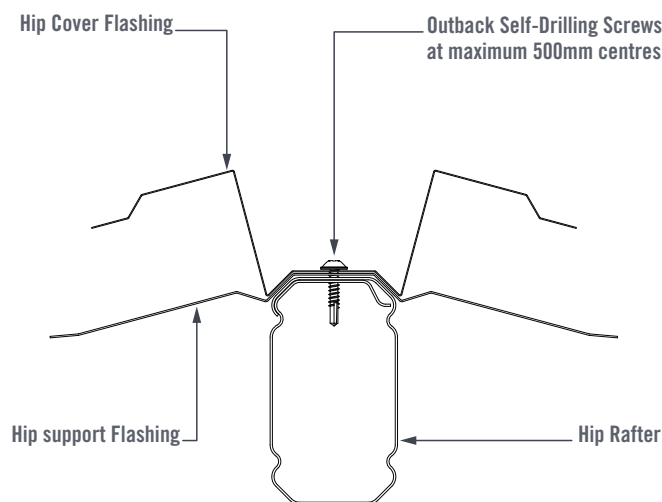
Hip Cover Flashings will be supplied to accommodate the selected Roof type. The Hip Cover Flashing is used to further secure the Hip Rafter and Roof Deck.

Position the Hip Cover Flashings on top of the Hip Support Flashing so that the trimmed edges meet neatly in-line with the ridge apex (Figures 18.23 & 18.24).



Ensure the Hip Cover Flashing and Hip Support Flashing are nested over each other and resting flat on the Hip Rafter (Figures 18.24 to 18.27).

Fix the Hip Cover Flashing to both the Hip Support Flashing and the Hip Rafter using Outback Self-Drilling Screws at 500mm centres (Figures 18.24 to 18.27).



GUTTER INSTALLATION

Refer to Section 8 - Gutter Installation for detailed Gutter installation procedure.

Refer to "External Gutter Mitres" on Page 15.21 for Hip Gutter Preparation details.

ROOFING INSTALLATION

Measure and mark the Roof Deck at a 47° angle from the Side Beam (Figure 18.28), ensuring correct sheet overlap for the decking type being used (refer to Section 09 - Roofing Installation for further detail).

Cut the Roof Deck and lay the sheets in the regular method for the decking type being used.

IMPORTANT NOTE:

To prevent water ingress, turn-up valleys or pans at the high end of the sheets.

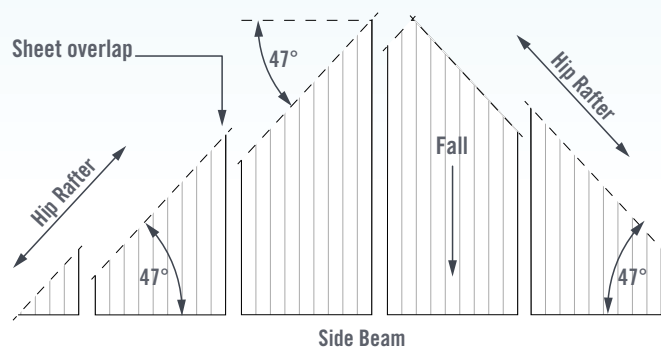


FIGURE 18.28

Push the Roof Sheets between the Hip Cover Flashing and Hip Support Flashings so that they rest firmly inside the Hip Cover Flashings (Figure 18.29).

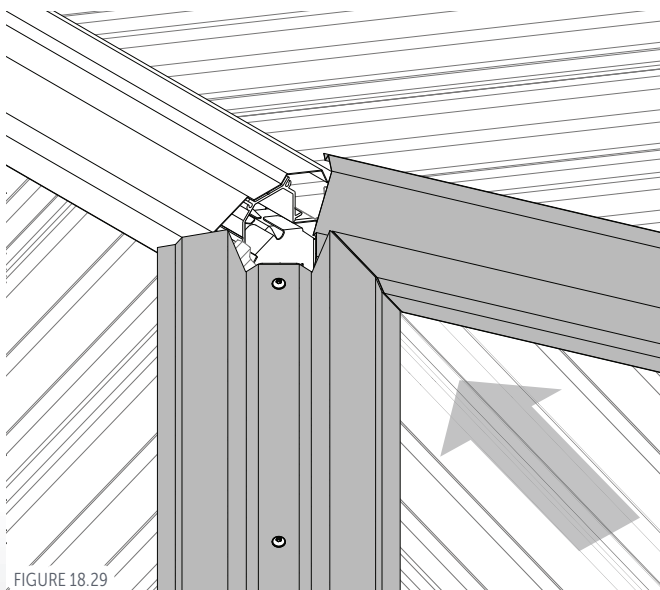


FIGURE 18.29

OUTBACK DECK ROOFING INSTALLATION

Firmly push the Outback Deck in-between the Hip cover Flashing and the Hip Support Flashing (Figure 18.26).

Fix the Outback Deck to the Hip Support Flashing from the underside using 4x Ø4.8mm (RIV6-4) rivets per sheet (Figures 18.30).

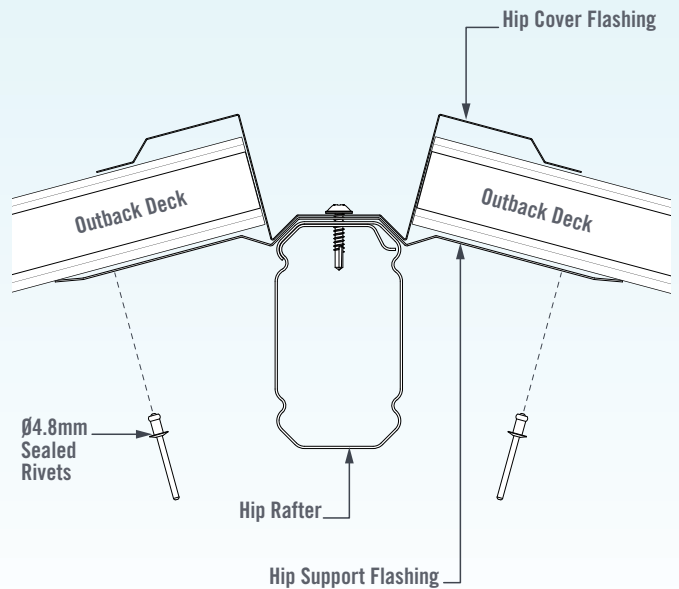


FIGURE 18.30

CGI ROOFING INSTALLATION

Firmly push the CGI Decking in-between the Hip cover Flashing and the Hip Support Flashing (Figure 18.31).

Fix the CGI sheet to the Hip Support Flashing from the underside using Ø4.8mm (RIV 6-4) rivets through every third pan (Figure 18.31).

Fix through the Hip Cover Flashing into the CGI sheet through every third crest using 10g x 16mm hex head self-drilling screws (Figure 18.31).

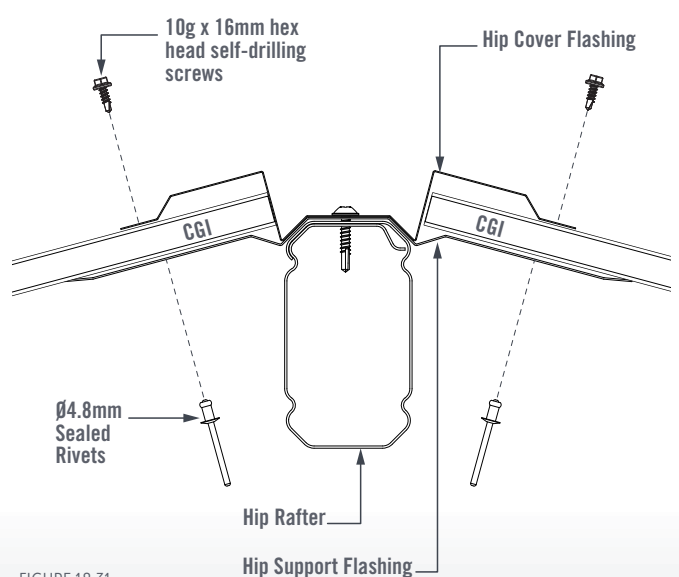


FIGURE 18.31

COOLDEK ROOFING INSTALLATION

Firmly push the Cooldek sheets in-between the Hip cover Flashing and the Hip Support Flashing.
Fix the Cooldek to the Support Flashing from the underside with Ø4.8mm (RIV6-4) rivets at maximum 200mm centres.
The Hip Cover Flashing is fixed to the Cooldek Top Sheet using Outback Self-Drilling Screws into each crest for Cooldek Classic, and every third crest for Cooldek CGI (Figures 18.32 to 18.35)

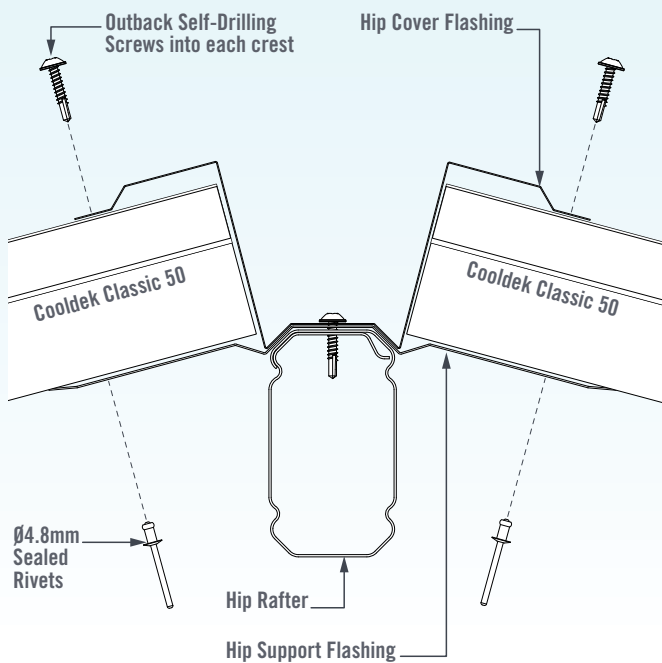


FIGURE 18.32

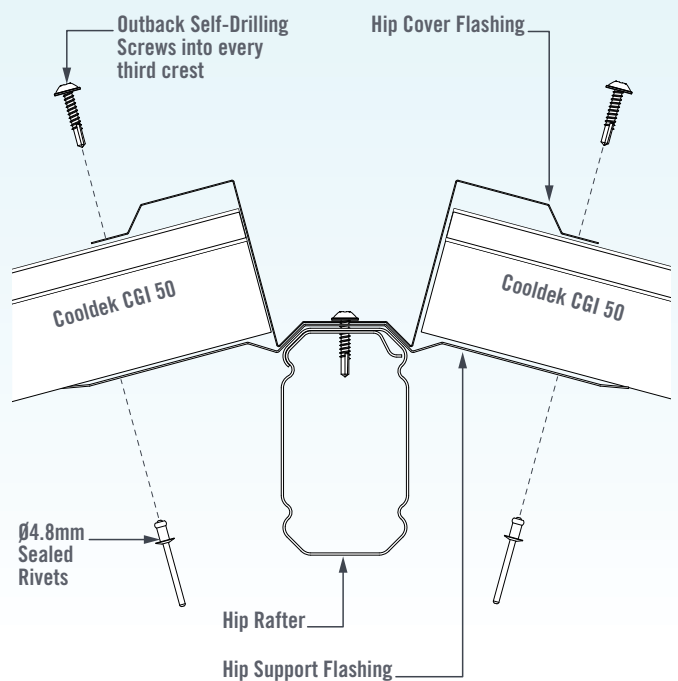


FIGURE 18.34

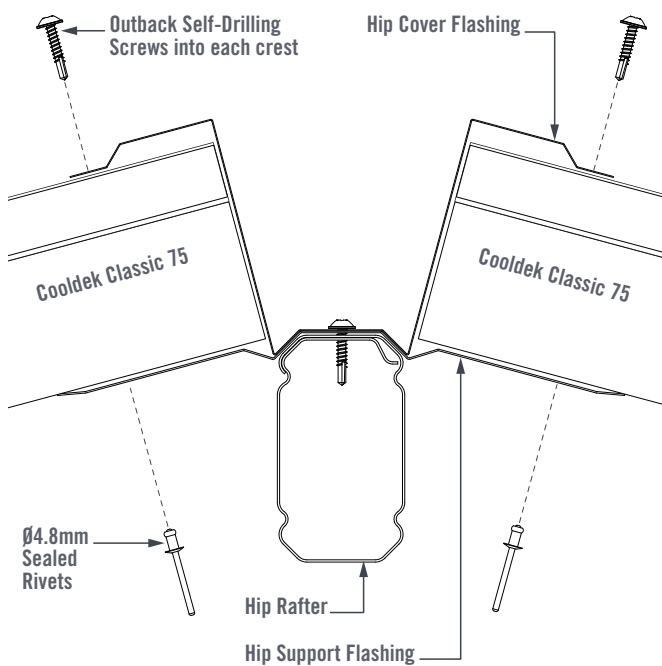


FIGURE 18.33

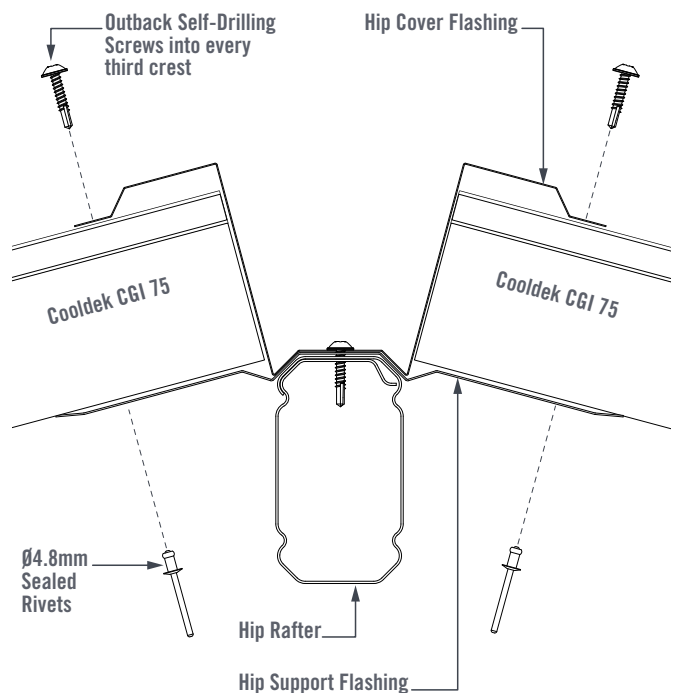


FIGURE 18.35

HIP-END FLASHING PREPARATION GUTTER END PREPARATION

Measure, mark and trim the gutter end of each Hip Capping at 43° on each side (Figure 18.32).

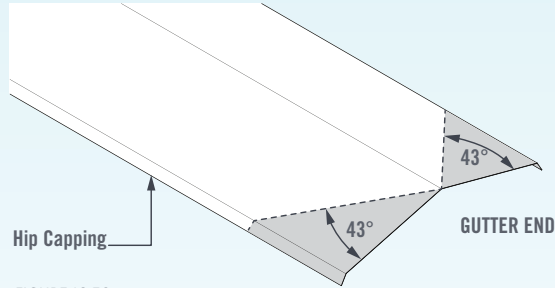
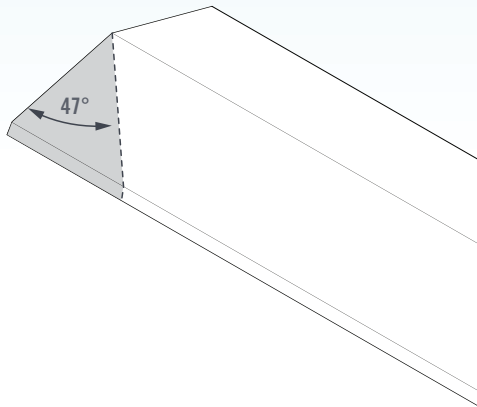


FIGURE 18.36

RIDGE END HIP FLASHING PREPARATION OUTBACK DECK & COOLDEK ROOFING

Trim the Hip Capping at 47° where both the Left and the Right Hand side flashings meet. Allow for 20mm on one of the Hip Caps to allow for an underlap (Figure 18.37).

RIGHT-HAND SIDE
HIP CAPPING
(RIDGE END)



LEFT-HAND SIDE
HIP CAPPING
(RIDGE END)

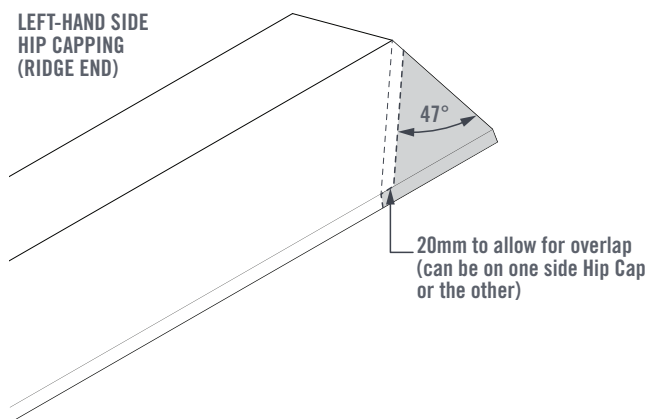


FIGURE 18.37

HIP-END FLASHING INSTALLATION OUTBACK DECK & COOLDEK HIP CAPPING INSTALLATION

Position the Hip Capping on the Hip Cover Flashing, aligning the trimmed edges with the apex of the ridge. Place the Hip Capping with the extra material on the bottom, and overlap the opposite Hip Capping. Apply silicone along the overlap to prevent water ingress (Figures 18.38 & 18.39).

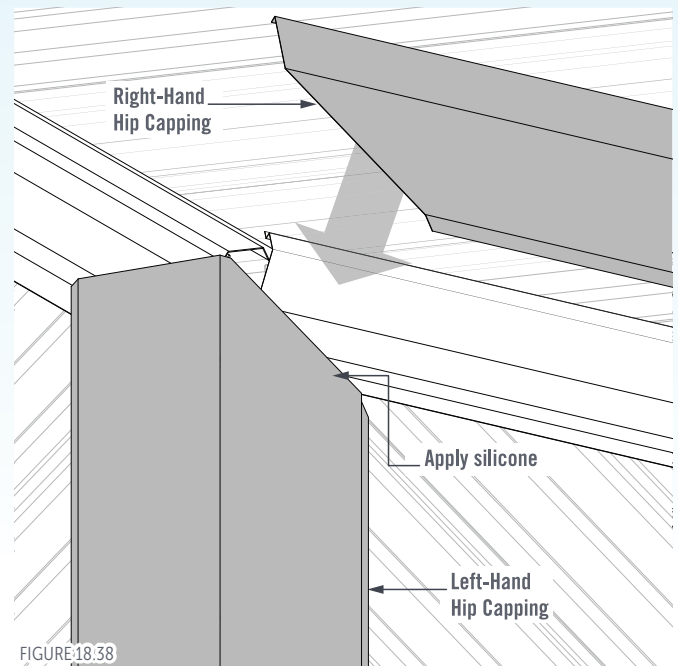


FIGURE 18.38

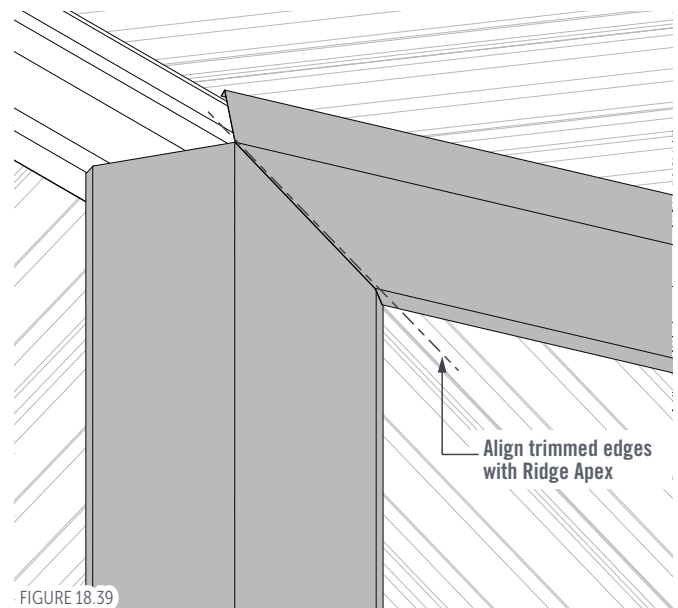
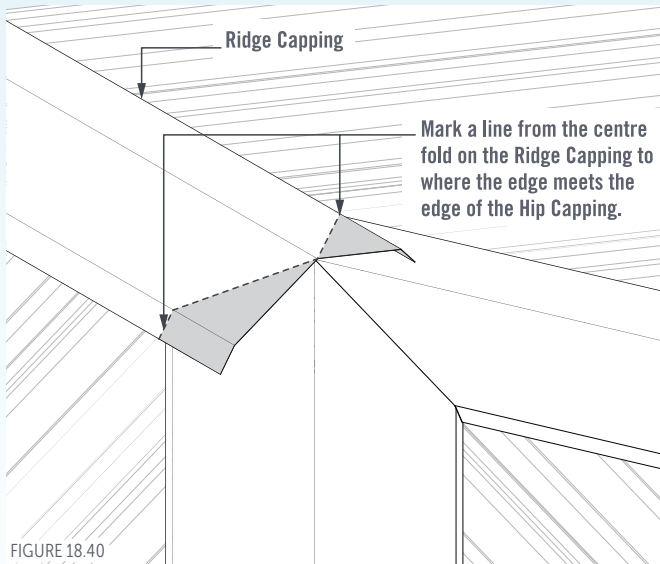


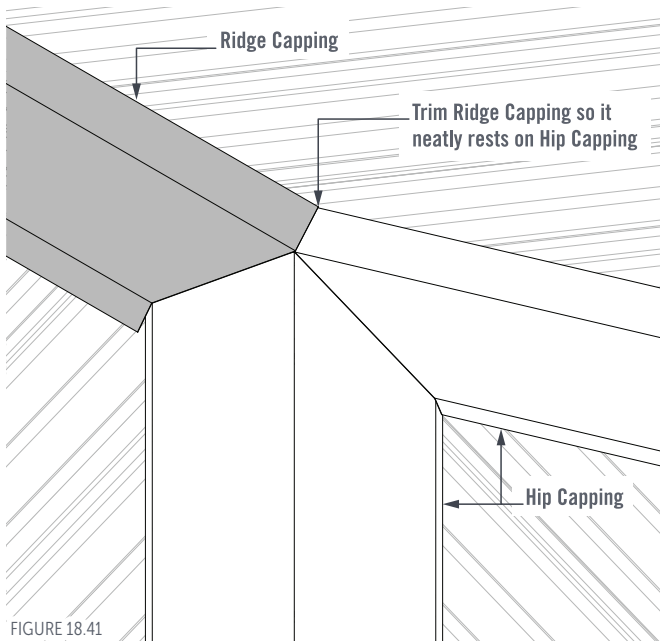
FIGURE 18.39

Mark the Hip Capping screw locations using a string line and fix the Hip Capping to the Hip Cover Flashing using 12g x 20mm hex head self-drilling screws at 500mm centres (Figures 15.112 to 15.117 on page 15.26).

Position the Ridge Cap so that the centre fold meets with the centre folds of the Hip Capping. On each side of the Ridge Cap, mark a line from the centre fold of the Ridge Cap to where the edge of the Ridge Cap Meets the edge of the Hip Cap (Figure 18.40).



Trim the Ridge Capping and position over the Hip Capping so that the corners meet neatly in the centre (Figure 18.41). Apply silicone to the joins to prevent water ingress.



Fix the Ridge Capping to the Back Channel Top Flashing using 12g x 20mm Hex Head Self-Drilling Screws with Neoprene Washers at maximum 500mm centres (Figures 12.0 to 12.5 on Page 12.2).

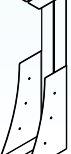
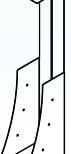
COMPONENT INDEX

COMPONENT INDEX

STANDARD OUTBACK

 3962 68mm OUTBACK BEAM (VARIES)	 3961 120mm OUTBACK BEAM OBB120##	 3960 150mm OUTBACK BEAM OBB150##	 10477 220mm OUTBACK BEAM OBB220##	 1638 OUTBACK NOTCHED BEAM FILLER OBNF##
 1627 120mm BEAM-BEAM BRACKET BBR120GA	 1628 150mm BEAM-BEAM BRACKET BBR150GA	 10361 120mm BEAM-BEAM CRADLE BRACKET BBCB120##	 10362 150mm BEAM-BEAM CRADLE BRACKET BBCB150##	 10601 220mm BEAM-BEAM CRADLE BRACKET BBCB220##
 1629 120mm BEAM-WALL BRACKET BWB120##	 1630 150mm BEAM-WALL BRACKET BWB150##	 11213 120mm BEAM-WALL CRADLE BRACKET BWCB120##	 11214 150mm BEAM-WALL CRADLE BRACKET BWCB150##	 10600 220mm BEAM-WALL CRADLE BRACKET BWCB220##
 11236 120mm BEAM-WALL WASHER PLATE BWWP120GA	 11237 150mm BEAM-WALL WASHER PLATE BWWP150GA	 10686 220mm BEAM-WALL WASHER PLATE BWCBWPOGA	 10854 120mm OUTBACK BEAM ENDCAP OBEC120##	 10858 150mm OUTBACK BEAM ENDCAP OBEC120##
 10599 220mm OUTBACK BEAM ENDCAP BECA220##	 1649 120mm OUTBACK SUSPENSION BRACKET BSB120##	 1650 150mm OUTBACK SUSPENSION BRACKET BSB150##	 8601 120mm COOLDEK SUSPENSION BRACKET CDS120##	 8602 150mm COOLDEK SUSPENSION BRACKET CDS150##

COMPONENT INDEX (CONTINUED)

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10666  OUTBACK SUSPENSION BKT. (OBB220) (CDK CGI 50mm) BSB250CCG##	10667  OUTBACK SUSPENSION BKT. (OBB220) (CDK CGI 75mm) BSB275CCG##	10668  OUTBACK SUSPENSION BKT. (OBB220) (CDK CGI 100mm) BSB2100CCG##	10669  OUTBACK SUSPENSION BKT. (OBB220) (CDK CGI 125mm) BSB2125CCG##	10670  OUTBACK SUSPENSION BKT. (OBB220) (CDK CGI 150mm) BSB2150CCG##
10671  OUTBACK SUSPENSION BKT. (OBB220) (CDK CLC 50mm) BSB250CCL##	10672  OUTBACK SUSPENSION BKT. (OBB220) (CDK CLC 75mm) BSB275CCL##	10673  OUTBACK SUSPENSION BKT. (OBB220) (CDK CLC 100mm) BSB2100CCL##	10674  OUTBACK SUSPENSION BKT. (OBB220) (CDK CLC 125mm) BSB2125CCL##	10675  OUTBACK SUSPENSION BKT. (OBB220) (CDK CLC 150mm) BSB2150CCL##

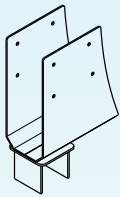
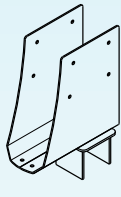
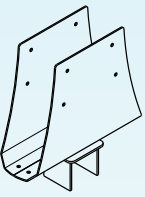
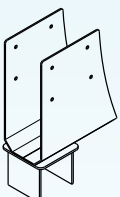
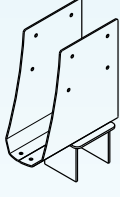
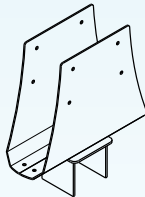
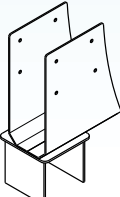
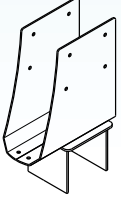
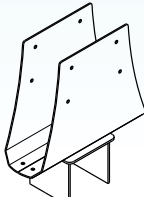
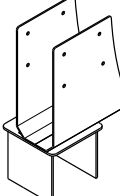
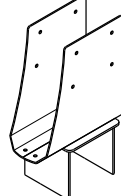
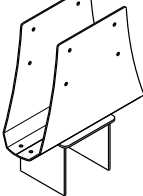
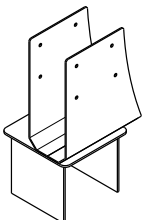
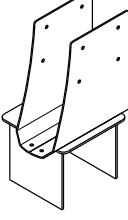
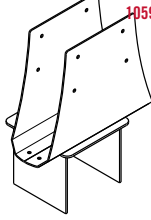
SUSPENSION BRACKETS (OBB220)

COMPONENT INDEX (CONTINUED)

STANDARD OUTBACK

3316 OUTBACK COLUMN BASEPLATE (65mm) OFCB65GA	3316 OUTBACK COLUMN BASEPLATE (75mm) OFCB75GA	6070 OUTBACK COLUMN BASEPLATE (90mm) OFCB90GA	5924 OUTBACK COLUMN BASEPLATE (100mm) OFCB100GA
6496 OUTBACK SHS CONNECTION (65mm) (LEFT) OBSC65##	6497 OUTBACK SHS CONNECTION (65mm) (RIGHT) OBSCR65##	6495 OUTBACK SHS CONNECTION (65mm) (INLINE) OBSCINL65##	
6499 OUTBACK SHS CONNECTION (75mm) (LEFT) OBSC75##	6500 OUTBACK SHS CONNECTION (75mm) (RIGHT) OBSCR75##	6498 OUTBACK SHS CONNECTION (75mm) (INLINE) OBSCINL75##	
6780 OUTBACK SHS CONNECTION (90mm) (LEFT) OBSC90##	6781 OUTBACK SHS CONNECTION (90mm) (RIGHT) OBSCR90##	6779 OUTBACK SHS CONNECTION (90mm) (INLINE) OBSCINL90##	
6787 OUTBACK SHS CONNECTION (100mm) (LEFT) OBSC100##	6788 OUTBACK SHS CONNECTION (100mm) (RIGHT) OBSCR100##	6786 OUTBACK SHS CONNECTION (100mm) (INLINE) OBSCINL100##	
10388 OUTBACK SHS CONNECTION (125mm) (LEFT) OBSC125##	10389 OUTBACK SHS CONNECTION (125mm) (RIGHT) OBSCR125##	10387 OUTBACK SHS CONNECTION (125mm) (INLINE) OBSCINL125##	

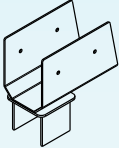
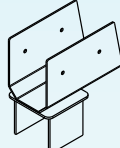
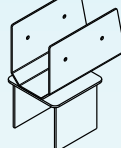
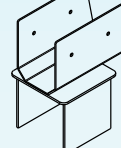
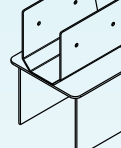
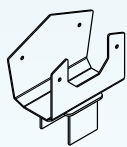
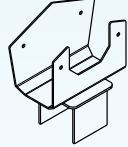
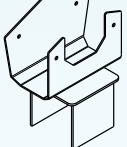
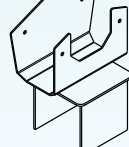
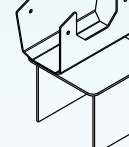
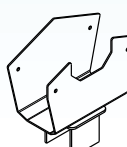
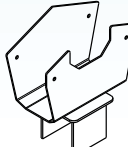
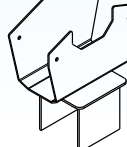
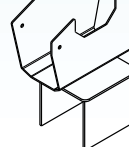
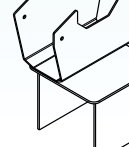
COMPONENT INDEX (CONTINUED)

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 10596 220mm SHS CONNECTOR (125mm) (LEFT) OBSC220L125##	 10597 220mm SHS CONNECTOR (125mm) (RIGHT) OBSC220R125##	 10598 220mm SHS CONNECTOR (125mm) (INLINE) OBSC220I125##

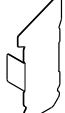
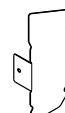
STANDARD OUTBACK

COMPONENT INDEX (CONTINUED)

CENTRE POST

 CENTRE COLUMN TO RIDGE ASSEMBLY (65mm SHS) CCRI65##	 CENTRE COLUMN TO RIDGE ASSEMBLY (75mm SHS) CCRI75##	 CENTRE COLUMN TO RIDGE ASSEMBLY (90mm SHS) CCRI90##	 CENTRE COLUMN TO RIDGE ASSEMBLY (100mm SHS) CCRI100##	 CENTRE COLUMN TO RIDGE ASSEMBLY (125mm SHS) CCRI125##
 SHS CENTRE COLUMN TO 120mm RAFTER ASSEMBLY (65mm SHS) (22°) CCRA1206522##	 SHS CENTRE COLUMN TO 120mm RAFTER ASSEMBLY (75mm SHS) (22°) CCRA1207522##	 SHS CENTRE COLUMN TO 120mm RAFTER ASSEMBLY (90mm SHS) (22°) CCRA1209022##	 SHS CENTRE COLUMN TO 120mm RAFTER ASSEMBLY (100mm SHS) (22°) CCRA12010022##	 SHS CENTRE COLUMN TO 120mm RAFTER ASSEMBLY (125mm SHS) (22°) CCRA12012522##
 SHS CENTRE COLUMN TO 150mm RAFTER ASSEMBLY (65mm SHS) (22°) CCRA1506522##	 SHS CENTRE COLUMN TO 150mm RAFTER ASSEMBLY (75mm SHS) (22°) CCRA1507522##	 SHS CENTRE COLUMN TO 150mm RAFTER ASSEMBLY (90mm SHS) (22°) CCRA1509022##	 SHS CENTRE COLUMN TO 150mm RAFTER ASSEMBLY (100mm SHS) (22°) CCRA15010022##	 SHS CENTRE COLUMN TO 150mm RAFTER ASSEMBLY (125mm SHS) (22°) CCRA15012522##

GABLE BEAM STOPENDS

 BEAM CAP STOPEND (120mm) (SMALL) (LH) OGBS120LSML##	 BEAM CAP STOPEND (120mm) (SMALL) (RH) OGBS120RSML##	 BEAM CAP STOPEND (150mm) (SMALL) (LH) OGBS150LSML##	 BEAM CAP STOPEND (150mm) (SMALL) (RH) OGBS150RSML##
 BEAM CAP STOPEND (220mm) (LARGE) (LH) OGBS220LLGE##	 BEAM CAP STOPEND (220mm) (LARGE) (RH) OGBS220RLGE##	 BEAM CAP STOPEND (150mm) (LARGE) (LH) OGBS150LLGE##	 BEAM CAP STOPEND (150mm) (LARGE) (RH) OGBS150RLGE##
 BEAM CAP STOPEND (220mm) (SMALL) (LH) OGBS220LSML##	 BEAM CAP STOPEND (220mm) (SMALL) (RH) OGBS220RSML##	 BEAM CAP STOPEND (220mm) (LARGE) (LH) OGBS220LLGE##	 BEAM CAP STOPEND (220mm) (LARGE) (RH) OGBS220RLGE##

COMPONENT INDEX (CONTINUED)

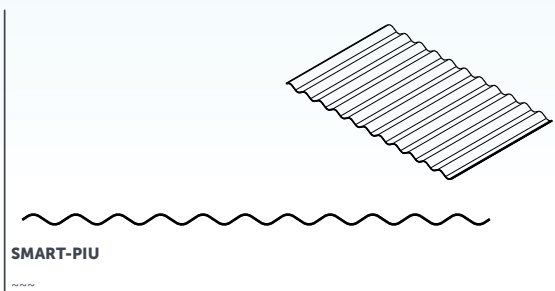
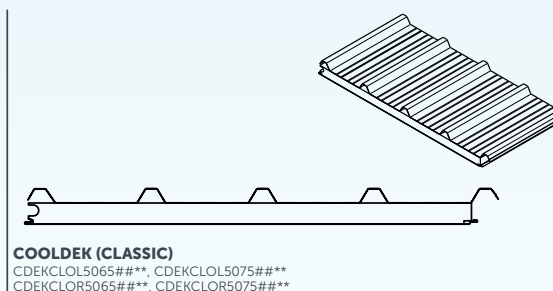
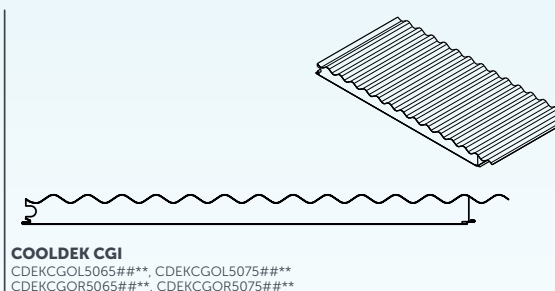
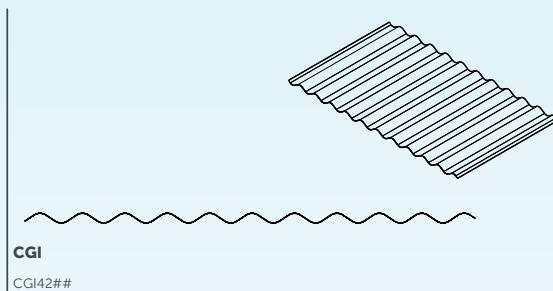
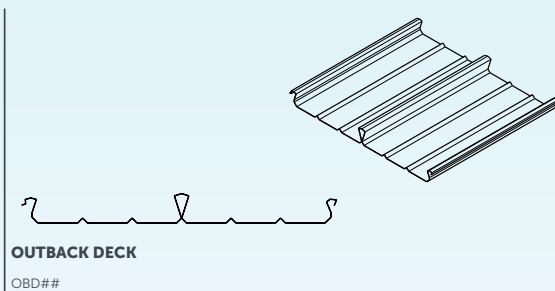
ATTACHMENT

FASTENERS

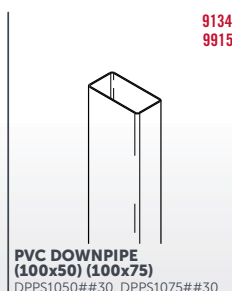
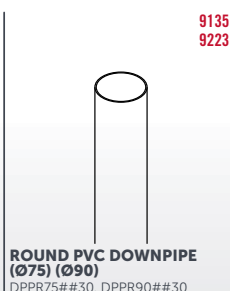
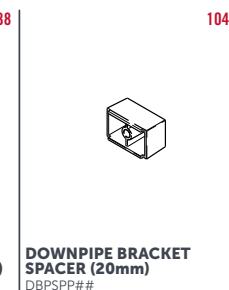
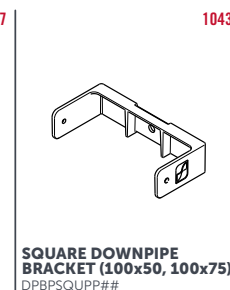
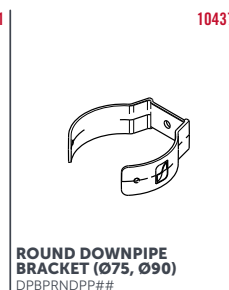
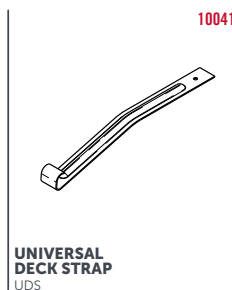
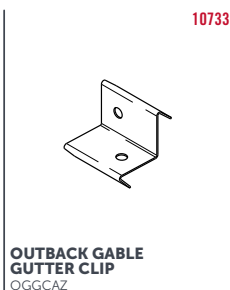
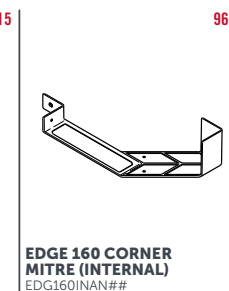
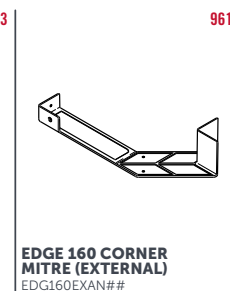
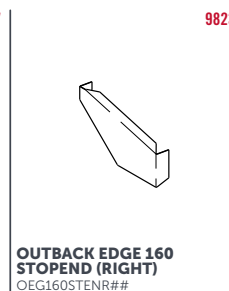
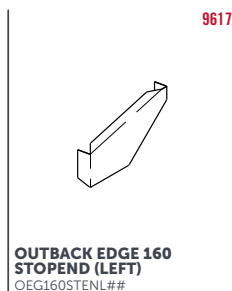
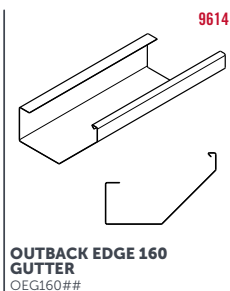
11032 RAFTER STENGTHENING BRACKET (22°) RSB22GA	6033 FASCIA RAFTER BRACKET UFB	5912 ADJUSTABLE RAFTER STRENGTHENING ARM ARSBRAA	6904 ADJUSTABLE RAFTER T-ATTACHMENT ARSBTAB	M10 x 25mm NUT, BOLT, WASHER HBN1025GA, FLWA10GA
8094 RISER BRACKET (22°) RIBTD22##	10663 BOX GUTTER WALL MOUNTING BRACKET OMWB##	10779 ATTACHMENT COVER PIECE (TOP) OBACTO200##	10780 ATTACHMENT COVER PIECE (BOTTOM) OBACBO200##	M12 x 100 ATTACHMENT BOLTS BHSS12100316SS, HXN12316SS, FLWABLN12, FLWA12316SS
T30 x 50mm TORX DRIVER DRIBT3050	OUTBACK FRAMING SCREW 12g x 30mm (T30 TORX) OFST301230##	12g x 20mm SELF-DRILLING SCREW TEK1220##, TEKNW1220##	12g x 35mm SELF-DRILLING SCREW TEK1235##	M6 x 50mm ROOFING SCREW ZIPM650##
M6 x 50 POLYCARBONATE SCREW --	14g x 150mm SELF-DRILLING SCREW TEKNW14150, CYPLSUP##, CDNW40	14g x 125mm SELF-DRILLING SCREW TEKNW14125, CYPLSUP##, CDNW40	RIVET 4-3 RIV4-3##	RIVET 6-3 RIV6-3##
RIVET 4-4 RIV4-4##	RIVET 6-4 RIV6-4##	SPLIT TAIL SOFT PULL RIVET STR		

COMPONENT INDEX (CONTINUED)

ROOFING



GUTTERS & DOWNPIPES



COMPONENT INDEX (CONTINUED)

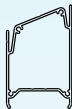
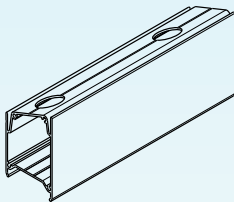
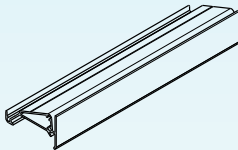
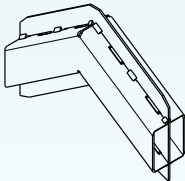
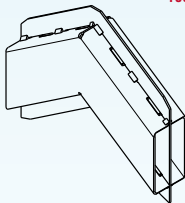
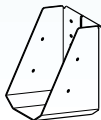
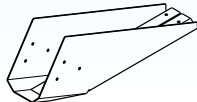
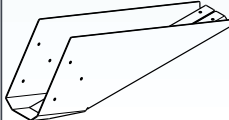
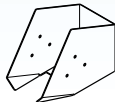
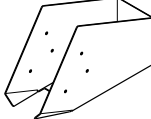
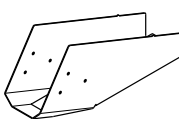
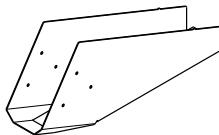
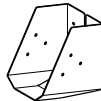
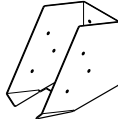
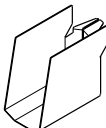
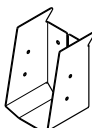
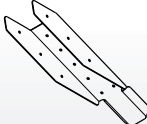
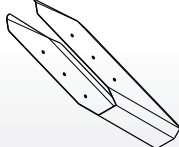
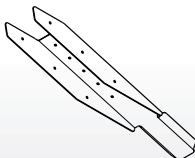
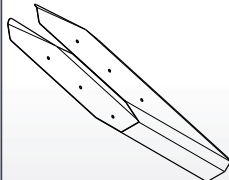
LIGHTING & FANS

COOL LIGHT

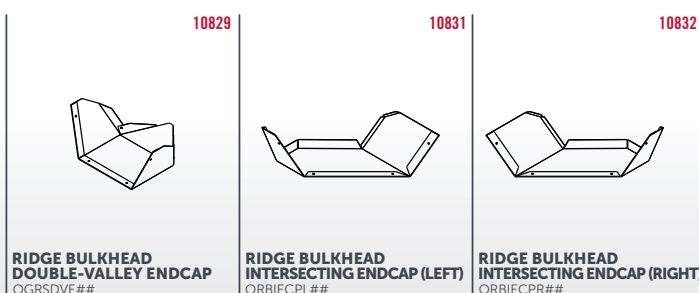
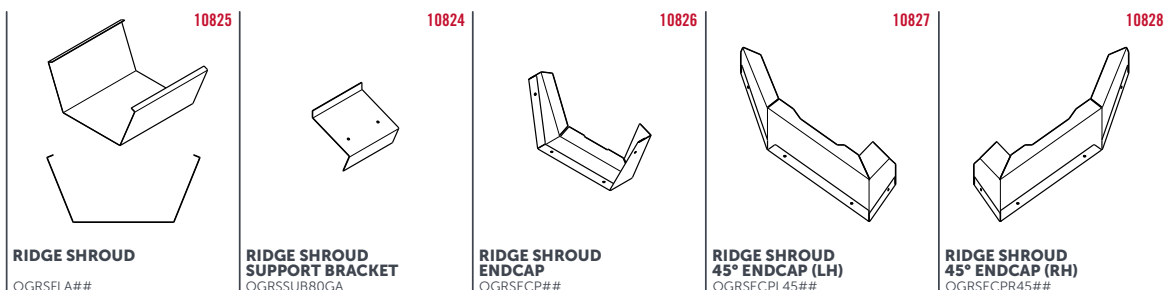
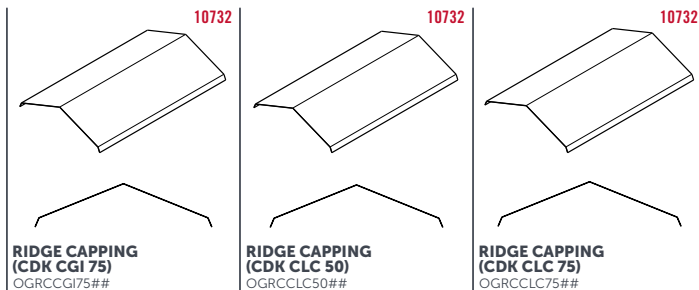
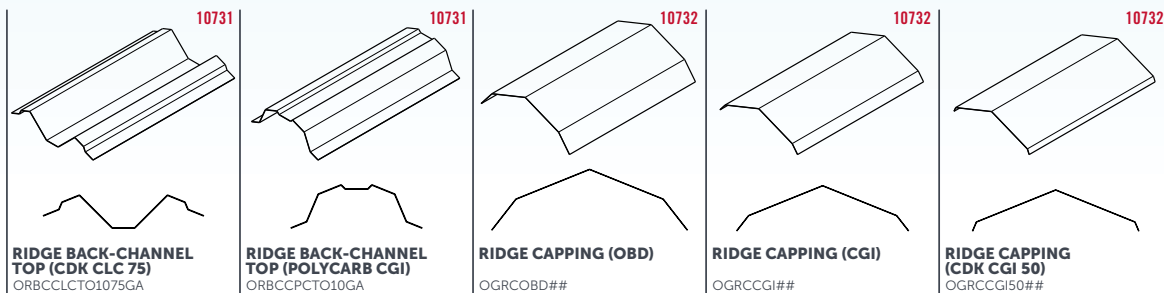
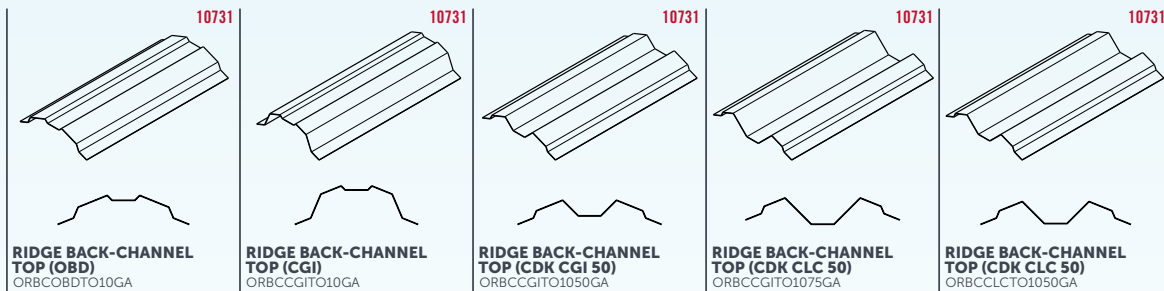
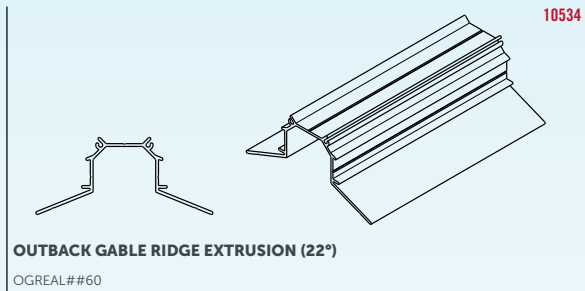
OUTBACK CEILING LIGHT KIT (2x 12W) OBLKLC12	OUTBACK CEILING LIGHT KIT (4x 5W) OBLKLC15	CEILING LIGHT EXTENSION CABLE (6m) OBLE6000	CEILING LIGHT EXTENSION CABLE (3m) OBLE3000	CEILING LIGHT EXTENSION CABLE (1m) OBLE1000
OUTBACK CEILING LIGHT STRIP KIT (8m) OGSKLTC80	OUTBACK CEILING LIGHT EXTENSION (3-PIN) OBLE3000	OUTBACK CEILING LIGHT EXTRUSION OLCEAL##	OUTBACK CEILING LIGHT COVER FLASHING (OBD) OLCCOBD##	OUTBACK CEILING LIGHT DAPTOR FLASHING (CGI) OCLACGI##
OUTBACK CEILING LIGHT COVER FLASHING (CGI) OLCCCGI##	OUTBACK CEILING LIGHT COVER FLASHING (CDK CLC) OLCCCLL##	OUTBACK CEILING LIGHT COVER FLASHING (CDK CGI) OLCCCGG##		
OUTBACK FAN OBFL3B	OUTBACK GABLE RAFTER FAN BRACKET GRFB22##	OUTBACK FAN BRACKET OBFB##		
COOLDEK COOL LIGHT DIFFUSER PANEL CCLD1029SOP##				
COOLDEK SKYLIGHT FRAME EXTRUSION CSFEWI	RIDGE BACK-CHANNEL TOP (CGI) CCUAWI	OUTBACK POLYCARBONATE ROOFLITE OBRL##	COOLDEK COOL LIGHT (MK2) CAVITY COVER (CLASSIC) CDCCLOW	COOLDEK COOL LIGHT (MK2) CAVITY COVER (CGI) CDCCGIOW

COMPONENT INDEX (CONTINUED)

OUTBACK GABLE FRAMEWORK

 		10532	 		10533
OUTBACK GABLE BEAM CAPPING EXTRUSION (LARGE)			OUTBACK GABLE BEAM CAPPING EXTRUSION (SMALL)		
OBBCLGEAL##60			OBBCSMLAL##60		
		10836			10839
RIDGE KNUCKLE (120mm) (22°)			RIDGE KNUCKLE (150mm) (22°)		
OGRK12022GA			OGRK15022GA		
		10698			10699
120mm RAFTER-BEAM BRACKET (22°)			150mm RAFTER-BEAM BRACKET (22°)		
OGRB12022##			OGRB15022##		
		10700			10701
RAFTER-FULL HEADER BRACKET (120mm) (SMALL)			RAFTER-FULL HEADER BRACKET (150mm) (SMALL)		
ORFH120SML##			ORFH150SML##		
		10702			
RAFTER-FULL HEADER BRACKET (120mm) (LARGE)					
ORFH120LGE##					
		10703			10704
RAFTER-FULL HEADER BRACKET (150mm) (LARGE)			RAFTER-SHORT HEADER BRACKET (120mm) (SMALL)		
ORFH150LGE##			ORSH120SML##		
		10705			10706
RAFTER-SHORT HEADER BRACKET (150mm) (SMALL)			RAFTER-SHORT HEADER BRACKET (120mm) (LARGE)		
ORSH150SML##			ORSH120LGE##		
		10707			
RAFTER-SHORT HEADER BRACKET (150mm) (LARGE)					
ORSH150LGE##					
		10708			10710
RIDGE-RAFTER BRACKET			68mm PURLIN BRACKET		
OGRR##			OGPB068##		
		10711			
120mm PURLIN BRACKET					
OGPB120##					
		10716			10717
120mm COLLAR-TIE ATTACHMENT (22°)			120mm COLLAR-TIE COVER (22°)		
OGCT120ATGA			OGCT120CV##		
		10909			10910
120mm COLLAR-TIE ATTACHMENT (16°)			120mm COLLAR-TIE COVER (16°)		
OGCT120AT16GA			OGCT120CV16##		
		10899			
COLLAR-TIE WASHER PLATE					
CTWP20GA					

COMPONENT INDEX (CONTINUED)



RIDGE

RIDGE BULKHEAD

COMPONENT INDEX (CONTINUED)

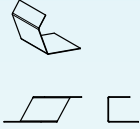
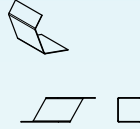
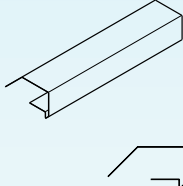
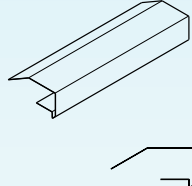
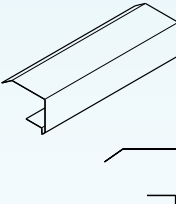
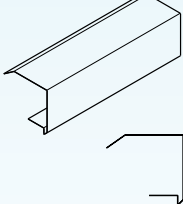
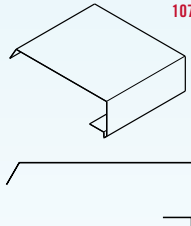
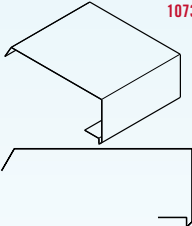
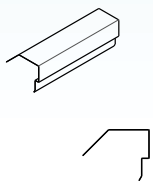
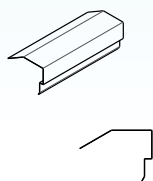
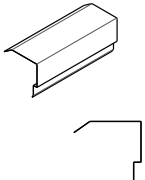
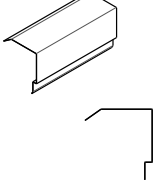
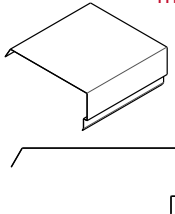
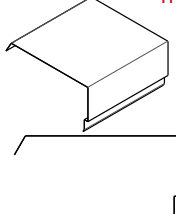
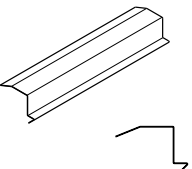
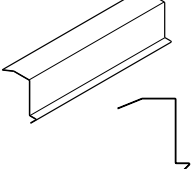
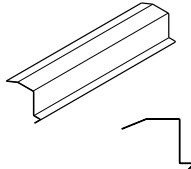
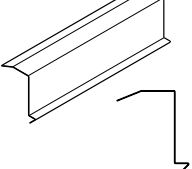
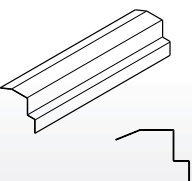
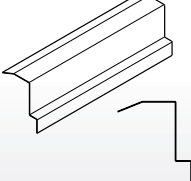
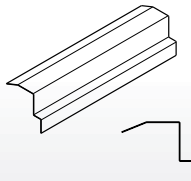
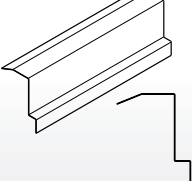
PERIMETER GUTTER SUPPORT

 PERIMETER GUTTER SUPPORT (SBC) (OBD CGI) GPGSBCSODC##	 PERIMETER GUTTER SUPPORT (LBC) (OBD CGI) GPGSBCLODC##	 PERIMETER GUTTER SUPPORT (SBC) (CDK CGI 50) GPGSBCSCG5##	 PERIMETER GUTTER SUPPORT (LBC) (CDK CGI 50) GPGSBCCLCG5##	 PERIMETER GUTTER SUPPORT (SBC) (CDK CLC 50) GPGSBCSCL5##
 PERIMETER GUTTER SUPPORT (SBC) (CDK CLC 50) GPGSBCCL5##	 PERIMETER GUTTER SUPPORT (SBC) (CDK CGI 75) GPGSBCSCG7##	 PERIMETER GUTTER SUPPORT (LBC) (CDK CGI 75) GPGSBCCLCG7##	 PERIMETER GUTTER SUPPORT (SBC) (CDK CLC 75) GPGSBCSCL7##	 PERIMETER GUTTER SUPPORT (LBC) (CDK CLC 75) GPGSBCCLCL7##
 PERIMETER GUTTER SUPPORT COVER FLASHING (OBD CGI) OGPGDCGBCL	 PERIMETER GUTTER SUPPORT COVER FL. (CDK-CGI50)(BCL) OGPGCG5BCL	 PERIMETER GUTTER SUPPORT COVER FL. (CDK-CLC50)(BCL) OGPGCL5BCL		
 PERIMETER GUTTER SUPPORT COVER FL. (CDK-CGI75)(BCL) OGPGCG7BCL	 PERIMETER GUTTER SUPPORT COVER FL. (CDK-CLC75)(BCL) OGPGCL7BCL	 PERIMETER GUTTER SUPPORT COVER FL. (CDK-CLC75)(BCL) OGPGCL7BCL		

BOX GUTTER

 BOX GUTTER (BEAM-CAP LARGE) (120 BEAM) OGRB12022##	 BOX GUTTER (BEAM-CAP LARGE) (150 BEAM) OGRB12022##	 BOX GUTTER (BEAM-CAP LARGE) (220 BEAM) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (120 BEAM) (CDK50) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (120 BEAM) (CDK75) OGRB12022##
 BOX GUTTER (BEAM-CAP SMALL) (150 BEAM) (CDK50) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (150 BEAM) (CDK75) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (220 BEAM) (CDK50) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (220 BEAM) (CDK75) OGRB12022##	 BOX GUTTER (BEAM-CAP SMALL) (220 BEAM) (OBD&CGI) OGRB12022##

COMPONENT INDEX (CONTINUED)

11180  BARGE TRIM PACKER (CGI) OBTPCGIGA	11181  BARGE TRIM PACKER (OBD) OBTOBDGA	10737  BARGE TRIM (OBD) OBTBOD##	10737  BARGE TRIM (CGI) OBTBCGI##
10737  BARGE TRIM (CDK CGI 50) OBTBCGI50##	10737  BARGE TRIM (CDK CGI 75) OBTBCGI75##	10737  BARGE TRIM (CDK CLC 50) OBTCLC50##	10737  BARGE TRIM (CDK CLC 75) OBTCLC75##
11182  TRADITIONAL BARGE CAP (OBD) OBTBOD##	11182  TRADITIONAL BARGE CAP (CGI) OBTBCGI##		
11182  TRADITIONAL BARGE CAP (CDK CGI 50) OBTBCGI50##	11182  TRADITIONAL BARGE CAP (CDK CGI 75) OBTBCGI75##	11182  TRADITIONAL BARGE CAP (CDK CLC 50) OBTCLC50##	11182  TRADITIONAL BARGE CAP (CDK CLC 75) OBTCLC75##
10738  CUTBACK (CDK CGI 50) (SMALL BEAM CAP) OGBCCBFCGI50SML##	10738  CUTBACK (CDK CGI 75) (SMALL BEAM CAP) OGBCCBFCGI75SML##	10738  CUTBACK (CDK CLC 50) (SMALL BEAM CAP) OGBCCBFLC50SML##	10738  CUTBACK (CDK CLC 75) (SMALL BEAM CAP) OGBCCBFLC75SML##
10739  CUTBACK (CDK CGI 50) (LARGE BEAM CAP) OGBCCBFCGI50LGE##	10739  CUTBACK (CDK CGI 75) (LARGE BEAM CAP) OGBCCBFCGI75LGE##	10739  CUTBACK (CDK CLC 50) (LARGE BEAM CAP) OGBCCBFLC50LGE##	10739  CUTBACK (CDK CLC 75) (LARGE BEAM CAP) OGBCCBFLC75LGE##

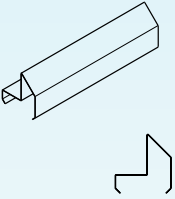
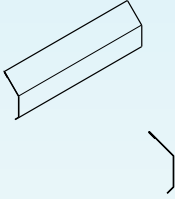
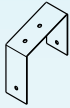
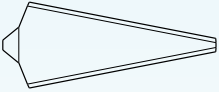
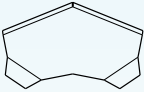
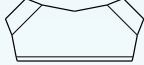
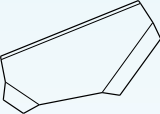
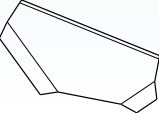
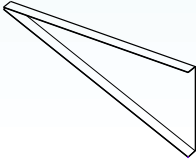
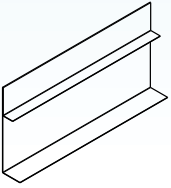
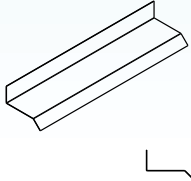
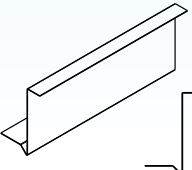
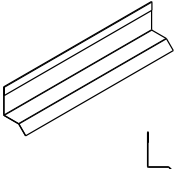
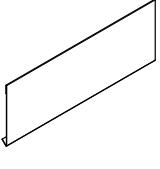
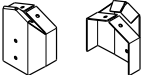
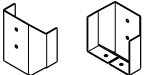
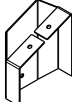
BARGE TRIM (NEW GEN.)

BARGE CAP (TRADITIONAL)

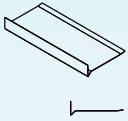
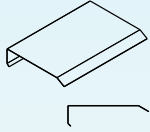
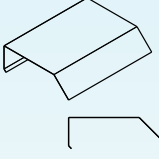
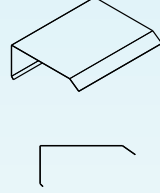
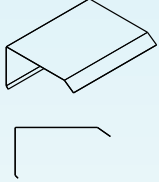
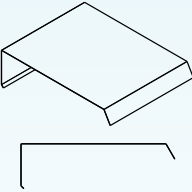
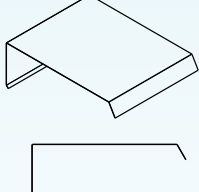
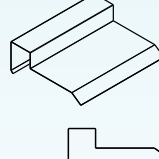
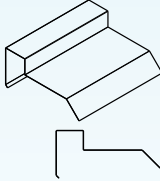
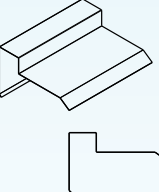
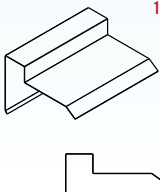
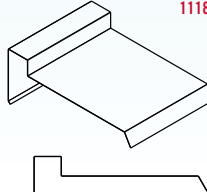
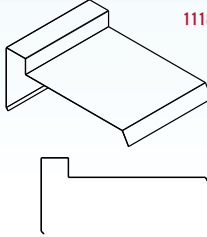
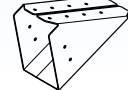
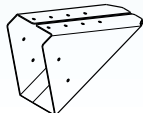
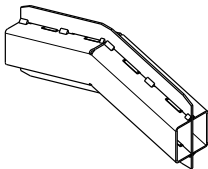
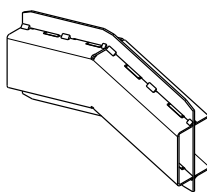
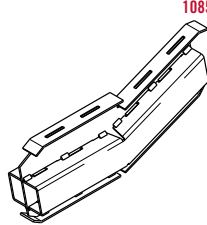
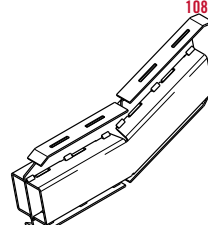
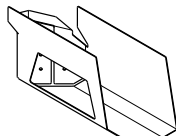
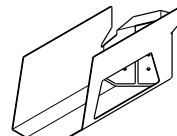
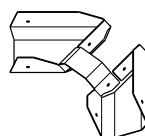
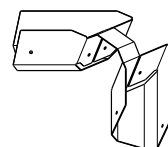
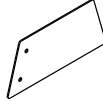
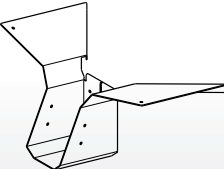
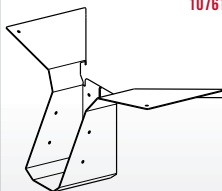
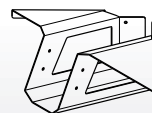
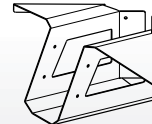
CUTBACK FLASHING

COMPONENT INDEX (CONTINUED)

INFILL & STRUT POST

 INFILL FIXING FLASHING OGINFFL##	 INFILL COVER FLASHING OGINCLFL##	 INFILL BASE STIRRUP OGINBSTGA	 INFILL APEX STIRRUP OGINASTGA	 INFILL STRUT SIDE STIRRUP OGINSST##
 INFILL CORNER CAP OGINCCP##	 INFILL APEX CAP OGINACP##	 INFILL STRUT CAP OGINSCP##	 INFILL BASE CAP OGINBCP##	 INFILL STRUT SIDE CAP (LEFT) OGINSCL##
 INFILL STRUT SIDE CAP (RIGHT) OGINSSCR##	 INFILL CORNER GUSSET OICGGA	 INFILL Z-DRIP SUPPORT FLASHING (NEW GEN.) OGIFZDSNG##	 INFILL Z-DRIP FLASHING (NEW GEN.) OGIFZDFNG##	 INFILL Z-DRIP SUPPORT FLASHING (TRADITIONAL) OGIFZDSTD##
 INFILL Z-DRIP FLASHING (TRADITIONAL) OGIFZDFTD##	 INFILL Z-DRIP SUPPORT COVER FLASHING OGIFZDCNG##			
 68mm STRUT APEX BRACKET OGSB068AP##	 68mm STRUT BASE BRACKET OGSB068BA##	 68mm STRUT ANGLED BRACKET (PART A) OSAB068PTA22##	 68mm STRUT ANGLED BRACKET (PART B) OSAB068PTB22##	

COMPONENT INDEX (CONTINUED)

11183  SPLIT WIDTH SIDE CAP BASE FLASHING OSSB##	11184  SPLIT WIDTH SIDE CAP COVER FLASHING (CGI) OSSFCGI##	11184  SPLIT WIDTH SIDE CAP COVER FLASHING (OBD) OSSFOBD##	11184  SPLIT WIDTH SIDE CAP COVER FLASHING (CDK CGI 50) OSSFCGI50##	11184  SPLIT WIDTH SIDE CAP COVER FLASHING (CDK CGI 75) OSSFCGI75##
11184  SPLIT WIDTH SIDE CAP COVER FLASHING (CDK CLC 50) OSSFCLC50##	11184  SPLIT WIDTH SIDE CAP COVER FLASHING (CDK CLC 75) OSSFCLC75##	11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (CGI) OSSICGI##	11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (OBD) OSSIOBD##	11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (CDK CGI 50) OSSICGI50##
11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (CDK CGI 50) OSSICGI75##	11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (CDK CLC 50) OSSICLC50##	11185  SPLIT WIDTH SIDE CAP INFILL COVER FLASHING (CDK CLC 75) OSSICLC75##	11033  SHARED RAFTER BRACKET (120mm) OGSR120##	11034  SHARED RAFTER BRACKET (150mm) OGSR150##
10848  RIDGE KNUCKLE (120mm) (16°) OGRK12016GA	10851  RIDGE KNUCKLE (150mm) (16°) OGRK15016GA	10855  RIDGE-RAFTER KNUCKLE (120mm RAFTER) (22°) ORRK12022GA	10859  RIDGE-RAFTER KNUCKLE (150mm RAFTER) (22°) ORRK15022GA	
10746  RIDGE-RAFTER BRACKET (45°) (LH) OGRRL45##	10747  RIDGE-RAFTER BRACKET (45°) (RH) OGRRR45##	10748  VALLEY PURLIN BRACKET OGVP068##	10749  HIP PURLIN BRACKET OGHP068##	10811  WINDOW COVER PLATE OWCP##
10760  VALLEY-CORNER BRACKET (120mm) (16°) OVCB12016##	10761  VALLEY-CORNER BRACKET (150mm) (16°) OVCB15016##	10762  HIP-CORNER BRACKET (120mm) (16°) OHCBI20##	10763  HIP-CORNER BRACKET (150mm) (16°) OHCBI50##	10728  EXTERNAL CORNER CAP (BEAM CAP LARGE) OGECBCL##

SPLIT WIDTH

RETURN GABLE

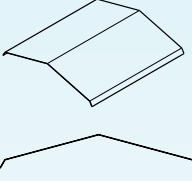
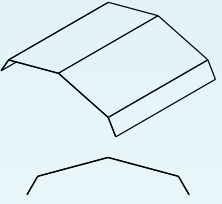
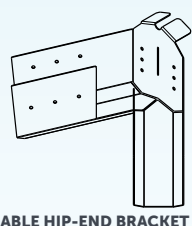
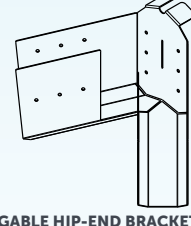
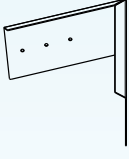
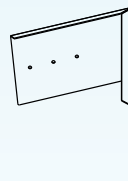
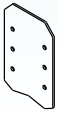
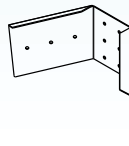
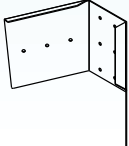
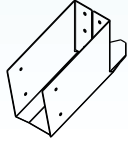
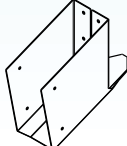
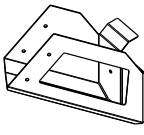
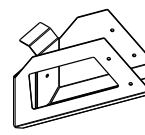
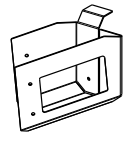
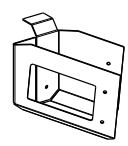
COMPONENT INDEX (CONTINUED)

HIP & VALLEY

VALLEY-RIDGE BRACKET (120mm) (LH) OVRB120L##	VALLEY-RIDGE BRACKET (120mm) (RH) OVRB120R##	VALLEY-RIDGE BRACKET (150mm) (LH) OVRB150L##	VALLEY-RIDGE BRACKET (150mm) (RH) OVRB150R##	VALLEY-BEAM BRACKET (120mm) (LH) OVBB120L##
VALLEY-BEAM BRACKET (120mm) (RH) OVBB120R##	VALLEY-BEAM BRACKET (150mm) (LH) OVBB150L##	VALLEY-BEAM BRACKET (150mm) (RH) OVBB150R##	SPLIT RAFTER-RIDGE BRACKET (120mm) OSRR120##	SPLIT RAFTER-RIDGE BRACKET (150mm) OSRR150##
VALLEY-INTERSECTING RIDGE (120mm) OVIR120##	VALLEY-INTERSECTING RIDGE (150mm) OVIR150##	VALLEY-APEX SUPPORT OVAS##	HIP-APEX SUPPORT OHAS##	VALLEY-RIDGE SUPPORT (LH) OVRSL##
VALLEY-RIDGE SUPPORT (RH) OVRSR##	VALLEY-BEAM SUPPORT (LH) OVBSL##	VALLEY-BEAM SUPPORT (RH) OVBSR##	VALLEY SUPPORT FLASHING OVSF##	HIP SUPPORT FLASHING OHSF##
VALLEY GUTTER (OBD/CGI) OGVGOC##	VALLEY GUTTER (CDK CGI/CLC 50) OGVGCGC50##	VALLEY GUTTER (CDK CGI/CLC 75) OGVGCGC75##	HIP COVER FLASHING (OBD) OHCFOB80GA	HIP COVER FLASHING (CGI) OHCFCGI80GA
HIP COVER FLASHING (CDK CGI 50) OHCFCGI8050GA	HIP COVER FLASHING (CDK CGI 75) OHCFCGI8075GA	HIP COVER FLASHING (CDK CLC 50) OHCFCCLC8050GA	HIP COVER FLASHING (CDK CLC 75) OHCFCCLC8075GA	

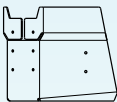
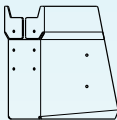
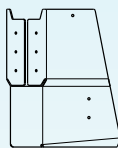
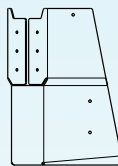
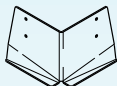
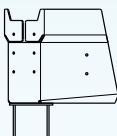
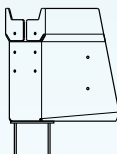
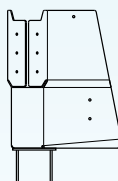
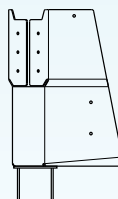
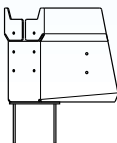
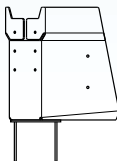
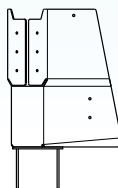
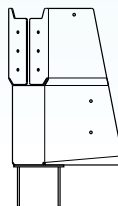
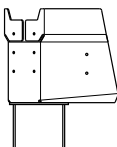
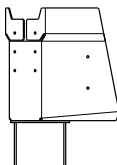
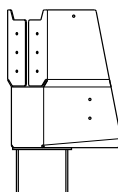
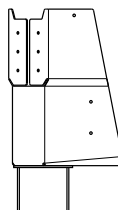
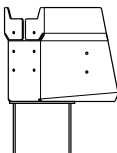
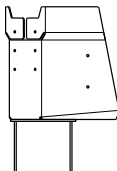
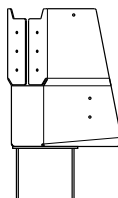
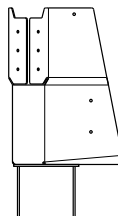
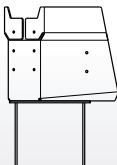
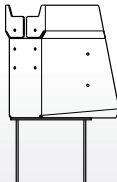
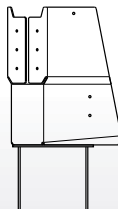
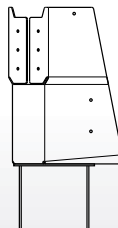
COMPONENT INDEX (CONTINUED)

HIP & VALLEY

10771  OUTBACK HIP CAPPING OGHC##	11475  OUTBACK HIP CAPPING (CGI) OGHCCGI##			
11283  GABLE HIP-END BRACKET (OBB120) GHBR12022GA	11284  GABLE HIP-END BRACKET (OBB150) GHBR15022GA	11285  GABLE HIP-END CENTRE PLATE (OBB120) GHCP12022GA	11286  GABLE HIP-END CENTRE PLATE (OBB150) GHCP15022GA	11287  GABLE HIP-END WASHER PLATE (OBB120) GHWP12022GA
11288  GABLE HIP-END WASHER PLATE (OBB150) GHWP15022GA	11289  GABLE HIP-END CENTRE BRACKET PLATE (OBB120) HCBP12022GA	11290  GABLE HIP-END CENTRE BRACKET PLATE (OBB150) HCBP15022GA	11291  GABLE HIP-END CENTRE BRACKET (OBB120) GHCB12022GA	11292  GABLE HIP-END CENTRE BRACKET (OBB150) GHCB15022GA
11293  OUTBACK 120mm VALLEY PURLIN BRACKET (LEFT) OVPB120L##	11294  OUTBACK 120mm VALLEY PURLIN BRACKET (RIGHT) OVPB120R##	11295  OUTBACK 120mm HIP PURLIN BRACKET (LEFT) OHPB120L##	11296  OUTBACK 120mm HIP PURLIN BRACKET (RIGHT) OHPB120R##	11297  OUTBACK WINDOW COVER PLATE (TYPE 2) OWCPTY2##

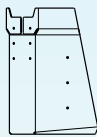
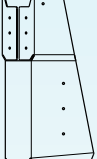
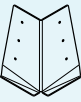
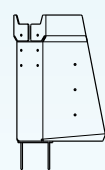
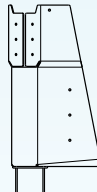
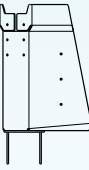
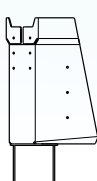
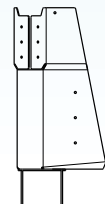
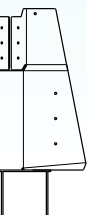
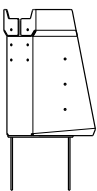
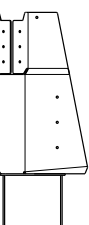
COMPONENT INDEX (CONTINUED)

INTERNAL CORNER CONNECTORS

 VALLEY-INTERNAL CORNER (120mm) (SMALL) VICP120SML##	 VALLEY-INTERNAL CORNER (150mm) (SMALL) VICP150SML##	 VALLEY-INTERNAL CORNER (120mm) (LARGE) VICP120LGE##	 VALLEY-INTERNAL CORNER (150mm) (LARGE) VICP150LGE##	 EXTERNAL CORNER COVER OEXC##
 65mm VALLEY-INTERNAL CORNER (120mm) (SMALL) VICC12065SML##	 65mm VALLEY-INTERNAL CORNER (150mm) (SMALL) VICC15065SML##	 65mm VALLEY-INTERNAL CORNER (120mm) (LARGE) VICC12065LGE##	 65mm VALLEY-INTERNAL CORNER (150mm) (LARGE) VICC15065LGE##	
 75mm VALLEY-INTERNAL CORNER (120mm) (SMALL) VICC12075SML##	 75mm VALLEY-INTERNAL CORNER (150mm) (SMALL) VICC15075SML##	 75mm VALLEY-INTERNAL CORNER (120mm) (LARGE) VICC12075LGE##	 75mm VALLEY-INTERNAL CORNER (150mm) (LARGE) VICC15075LGE##	
 90mm VALLEY-INTERNAL CORNER (120mm) (SMALL) VICC12090SML##	 90mm VALLEY-INTERNAL CORNER (150mm) (SMALL) VICC15090SML##	 90mm VALLEY-INTERNAL CORNER (120mm) (LARGE) VICC12090LGE##	 90mm VALLEY-INTERNAL CORNER (150mm) (LARGE) VICC15090LGE##	
 100mm VALLEY-INTERNAL CORNER (120mm) (SMALL) VICC120100SML##	 100mm VALLEY-INTERNAL CORNER (150mm) (SMALL) VICC150100SML##	 100mm VALLEY-INTERNAL CORNER (120mm) (LARGE) VICC120100LGE##	 100mm VALLEY-INTERNAL CORNER (150mm) (LARGE) VICC150100LGE##	
 125mm VALLEY-INTERNAL CORNER (120mm) (SMALL) VICC120125SML##	 125mm VALLEY-INTERNAL CORNER (150mm) (SMALL) VICC150125SML##	 125mm VALLEY-INTERNAL CORNER (120mm) (LARGE) VICC120125LGE##	 125mm VALLEY-INTERNAL CORNER (150mm) (LARGE) VICC150125LGE##	

COMPONENT INDEX (CONTINUED)

INTERNAL CORNER CONNECTORS (220mm BEAM)

11220  VALLEY-INTERNAL CORNER (220mm) (SMALL) VICP220SML##	11221  VALLEY-INTERNAL CORNER (220mm) (LARGE) VICP220LGE##	11222  EXTERNAL CORNER COVER (220mm) OEXC220##	
11223  65mm VALLEY-INTERNAL CORNER (220mm) (SMALL) VICC22065SML##	11223  65mm VALLEY-INTERNAL CORNER (220mm) (LARGE) VICC22065LGE##	11224  75mm VALLEY-INTERNAL CORNER (220mm) (SMALL) VICC22075SML##	11224  75mm VALLEY-INTERNAL CORNER (220mm) (LARGE) VICC22075LGE##
11225  90mm VALLEY-INTERNAL CORNER (220mm) (SMALL) VICC22090SML##	11225  90mm VALLEY-INTERNAL CORNER (220mm) (LARGE) VICC22090LGE##	11226  100mm VALLEY-INTERNAL CORNER (220mm) (SMALL) VICC220100SML##	11226  100mm VALLEY-INTERNAL CORNER (220mm) (LARGE) VICC220100LGE##
11227  125mm VALLEY-INTERNAL CORNER (220mm) (SMALL) VICC220125SML##	11227  125mm VALLEY-INTERNAL CORNER (220mm) (LARGE) VICC220125LGE##		



MAINTENANCE

Regular maintenance is essential to maintain the good looks of all Stratco steel products and to ensure you receive the maximum life-span possible.

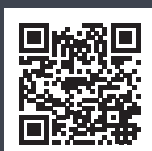
Washing with clean water must be frequent enough to prevent the accumulation of dust, salts, and pollutants that may reduce the life of the product.

Stratco steel products that are regularly washed by rain require no additional maintenance.

No Stratco steel structure or materials are recommended for use over, or in close proximity, to swimming pools or spas.

No material that retains water (such as dirt or paving sand) should be placed against the columns.

Care must be taken when determining the location of Stratco steel products so that they are not placed in close contact with sources of pollution or environmental factors that could affect the life of the steel. Refer to the 'Selection, Use and Maintenance' brochure for more information.



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