

Outback Gable Sunroof

Installation Guide



OUTBACK® GABLE PATIO SUNROOF

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.

Before You Start

It is important to check your Local Government Authority requirements before the installation of your new Stratco 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 verandah, patio or carport. Read these instructions thoroughly before starting your project and refer to them constantly during each stage of construction.

Refer to this manual, along with the 'Outback Gable Installation Manual'. If you do not have all the necessary tools or information, contact Stratco for advice. Before starting, lay out all components and check them against the delivery docket.

TOOLS AND HARDWARE REQUIRED

- | | | | |
|-----------------|------------------------|---------------------------|---------------------------------|
| • Tape Measure | • Tin Snips | • ø3.2mm Drill Bit | • Silicone Gun |
| • Marker or Pen | • Angle Grinder | • ø5.0mm Drill Bit | • Clamps |
| • Spirit Level | • Post-Hole Digger | • ø12mm Drill Bit | • Hex-Head Socket Set |
| • String Line | • Drill | • ø16mm Drill Bit | • Adjustable Construction Props |
| • Plumb Line | • 5/16 Hex-Head Driver | • ø12mm Masonry Drill Bit | • Ladders |
| • Hack Saw | • T30 Torx Driver | • Rivet Gun | |

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Framework Preparation

Outback Gable Sunroof Bank installation can only commence once the main Outback Gable framework has been completed. This includes perimeter framing, rafters and ridge beams. Framework should be fixed and braced in position prior to installation of an Outback Gable Sunroof Bank.

This section should be referred to for specific detail relating to Outback Gable Sunroof while completing the "Attaching to Existing Structure" section of the broader Outback Gable Patio Installation Manual.

Rear Attached

Rear attached Outback Gable Patios will not interfere with the Sunroof Bank Box Gutters. The Attachment Beam is installed as normal.

Side Attached (Large Beam Cap)

Where the Outback Gable Patio is attached along the Side Beam that includes a Sunroof Bank, consideration must be given to the position of the attachment fixings.

Side Attachment Beams fitted with a Large Beam Cap will be fixed through the Outback Beam below the Bottom Gutter. The optimal location for Attachment Beam through holes is 75mm from the bottom of the Outback Beam (Figure 1.0)

Refer to Figure 1.0 within the "Outback Gable Installation Manual" to complete this step.

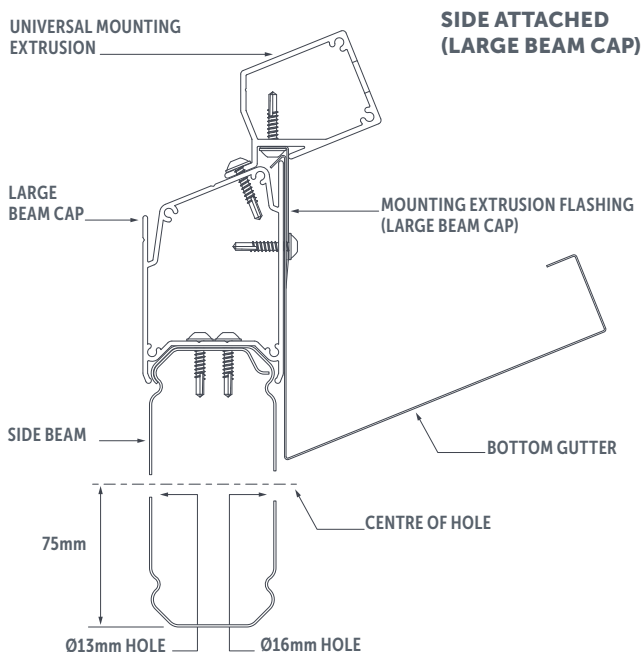


FIGURE 1.0

Side Attached (Small Beam Cap)

Where the Outback Gable Patio is attached along the Side Beam that includes a Sunroof Bank, consideration must be given to the position of the attachment fixings.

Side Attachment Beams fitted with a Small Beam Cap will be fixed through the Outback Beam and Bottom Gutter.

The optimal location for Attachment Beam through holes is 90mm from the bottom of the Outback Beam (Figure 1.1)

Refer to Figure 1.1 within the "Outback Gable Installation Manual" to complete this step.

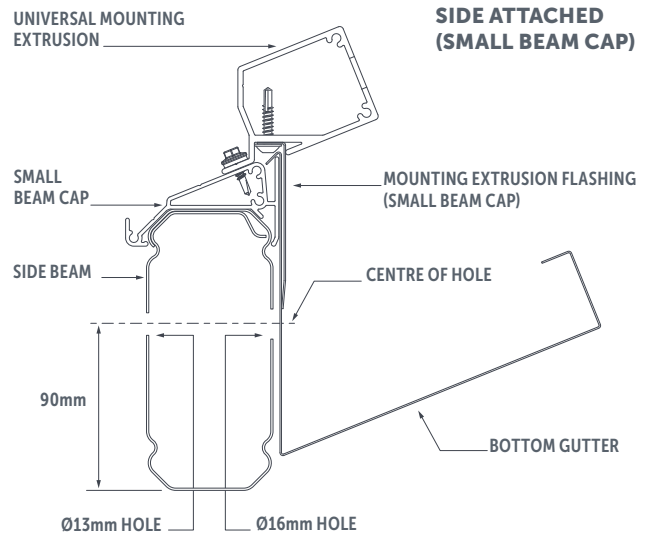


FIGURE 1.1

Rafter Preparation

Once the Outback Gable Ridge Beams have been installed, prepare for the Gable Sunroof Box Gutter installation by temporarily removing fixings from the inside faces of the Rafters and Rafter-to-Beam Brackets (Figure 1.2).

Make note of the removed screw locations as screws will need to be reinstalled into the same locations at a later step.

IMPORTANT NOTE:

Only remove framework screws from one sunroof bank at a time to ensure framework remains secure during installation of sunroof components.

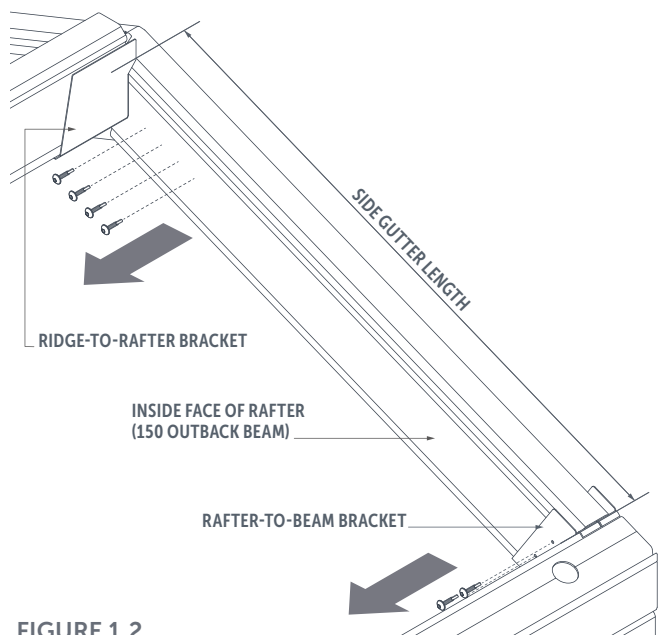


FIGURE 1.2

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Gutter Installation

NOTES:

Maintain protective covering on gutters until it is necessary to remove.

Layout gutters in relative position to each other prior to marking.

Gutters will share fixings with Mounting Extrusions/ Mounting Extrusion Flashings, Rafter Knuckles, Ridge to Rafter Brackets, and Rafter to Beam Brackets.

Bottom Gutter Preparation

Measure the distance between the inside faces of the Rafter-to-Beam Brackets. This measurement, less 5mm, will be the length of the Bottom Gutter.

Measure the width of the Side Gutter (Lower End) (Figure 2.0). Using the Side Gutter width, mark out gutter mitre trim lines at the ends of the Bottom Gutter (Figure 2.0).

Using tin snips, cut the marked-out Bottom Gutter mitre, retaining a 20mm tag at the front edge.

Fold tag to 90° (Figure 2.0).

Repeat these steps at the other end of the Bottom Gutter.

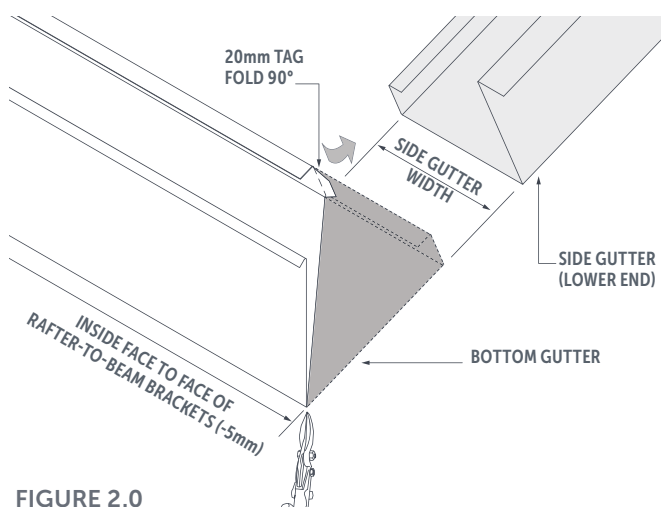


FIGURE 2.0

Top Gutter Preparation

Measure the distance between the inside faces of the Rafters at the Ridge. This measurement, less 5mm, will be the length of the Top Gutter.

Measure the width of the Side Gutter (Upper End) (Figure 2.1). Using the Side Gutter width, mark out gutter mitre trim lines at one end of the Top Gutter. Allow 30mm of additional Top Gutter length for a 30mm Tag. Retain 20mm at the front vertical edge for a 20mm Tag (Figure 2.1).

Using tin snips, cut the marked-out Top Gutter retaining a 20mm tag at the front edge and a 30mm tag on the vertical face (Figure 2.1).

Fold both tags to 90° (Figure 2.1).

Repeat these steps at the other end of the Top Gutter.

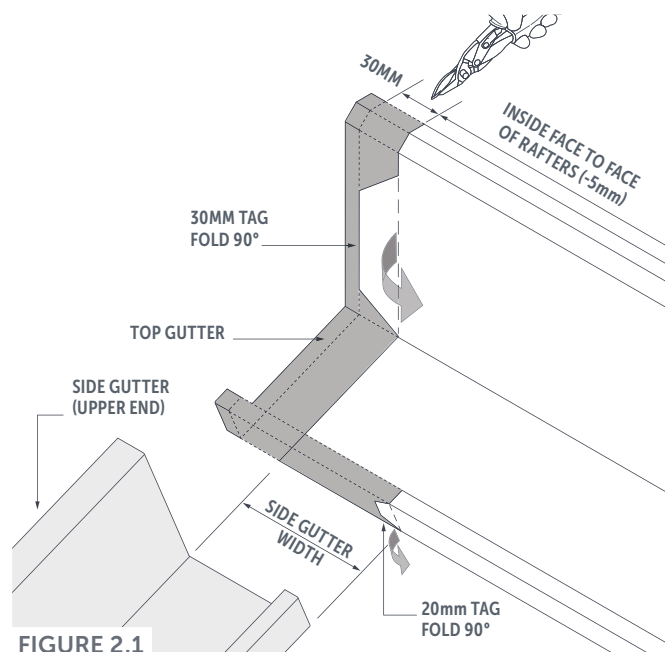


FIGURE 2.1

Side Gutter Preparation (lower end)

Measure the distance between the outside face of the Ridge-to-Rafter Bracket to the front face of the Beam Cap (Figure 1.2).

Measure the width of the Bottom Gutter (Figure 2.2). Using the Bottom Gutter width, mark out gutter mitre trim lines at the end of the Side Gutter (Lower End) (Figure 2.2).

Using tin snips, cut the marked out Side Gutter (Lower End) retaining a 30mm tag on the vertical face.

Fold tag to 90°. (Figure 2.2).

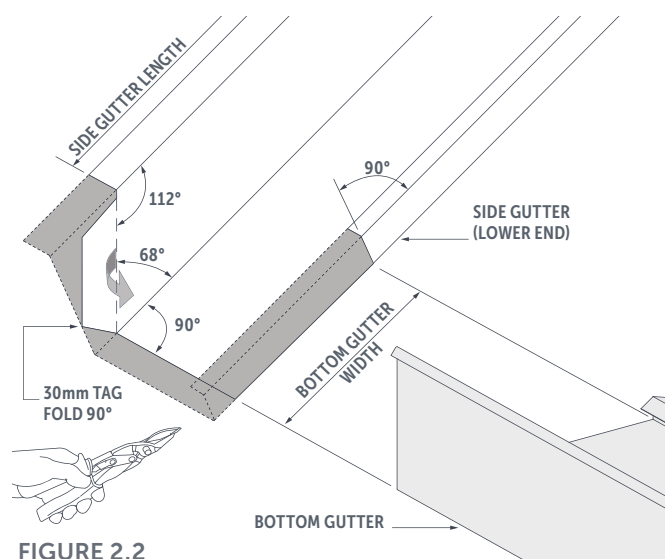


FIGURE 2.2

Select the lower corner which will become the location for the Downpipe Outlet. This corner will require additional trimming. Measure, mark, and using Tin Snips, trim the Side Gutter at the Lower End (Figure 2.3).

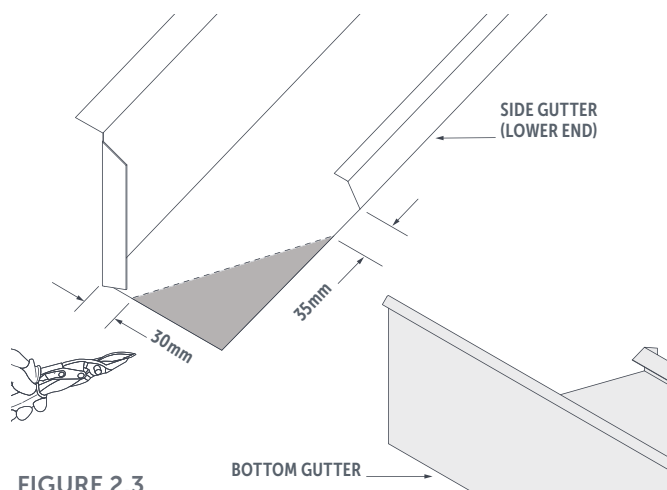


FIGURE 2.3

Side Gutter Preparation (upper end)

Measure the distance between the outside face of the Ridge-to-Rafter Bracket to the front face of the Beam Cap (Figure 1.2).

Measure the width of the Top Gutter (Figure 2.4). Mark out gutter mitre trim lines at the end of the Side Gutter (Upper End) (Figure 2.4).

Cut the marked-out Side Gutter (Upper End) mitre using tin snips.

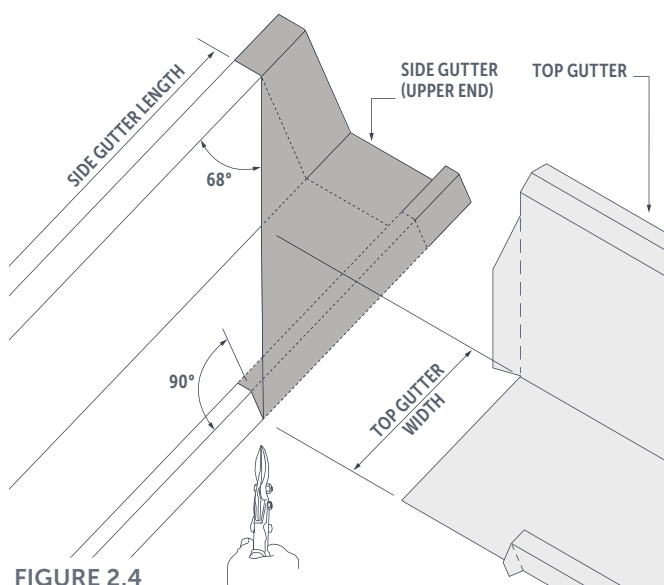


FIGURE 2.4

Gutter Positioning Sequence

Remove any protective covering from the Bottom Gutter. Position the Bottom Gutter by hanging it on the Beam Cap (Figure 2.5).

NOTES:

All figures show a Large Beam Cap unless installation details differ between Large and Small Beam-Capping.

All four Gutters should be positioned to ensure mitre connections are tightly fitted. Fixing of Gutters will be completed at a later step.

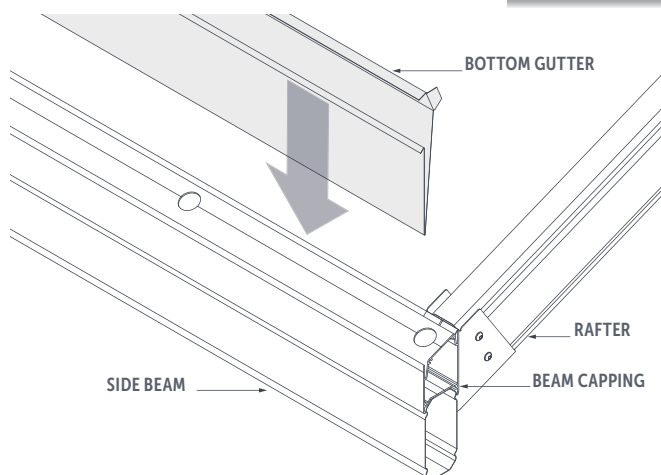


FIGURE 2.5

Remove any protective covering from the Side Gutters. Position Side Gutters on each rafter, overlapping the lower end into the Bottom Gutter mitre (Figure 2.6).

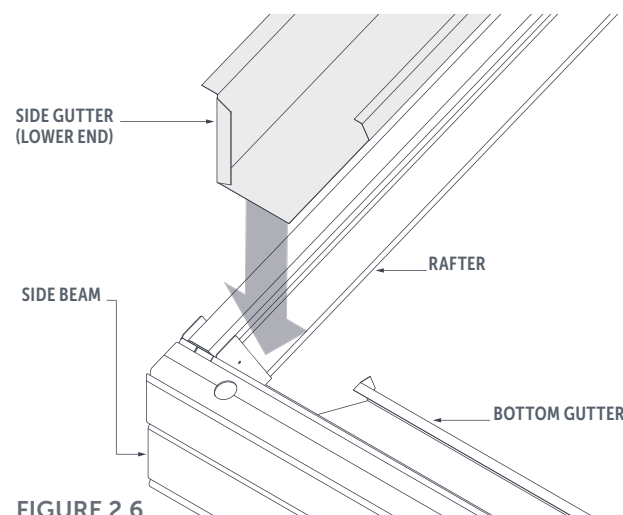


FIGURE 2.6

Remove any protective covering from the Top Gutter. Position the Top Gutter onto the Ridge Beam, overlapping into the Side Gutter mitre (Figure 2.7).

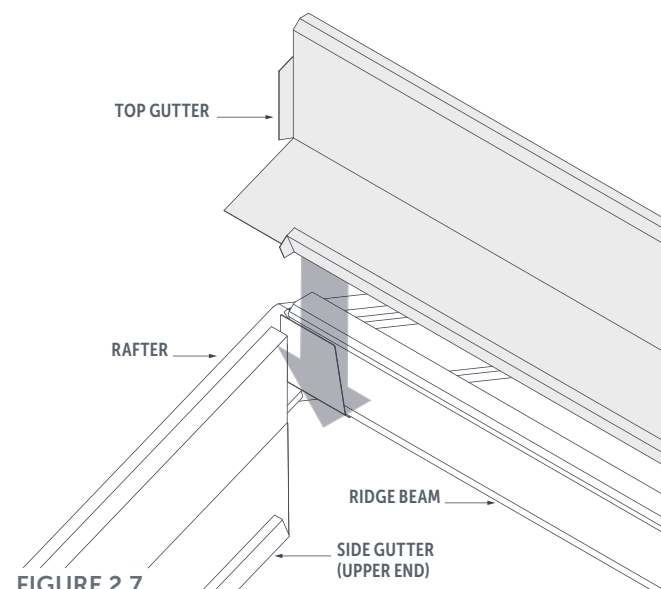


FIGURE 2.7

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Re-Securing Framework

Once the four internal box gutters have been correctly positioned, fix the Ridge-To-Rafter Bracket through the internal face of the Top Gutter using four Outback Self-Drilling Screws (Figure 2.8).

Repeat this step at every Sunroof Bank Ridge-To-Rafter Bracket location.

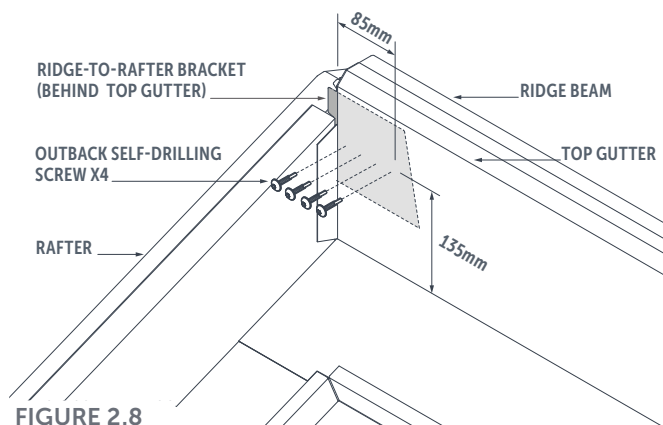


FIGURE 2.8

Replace the four previously removed Outback Self-Drilling Screws at 38mm from the inside face of the Top Gutter and then equally spaced at 30mm by fixing through the Side Gutter into the Rafter Knuckle (Figure 2.9).

Repeat this step at every previously unsecured Rafter Knuckle location.

Replace the two previously removed Rafter Bracket fixings. Fix through the Side Gutter (lower end) into the Rafter Bracket using Outback Self-Drilling Screws (Figure 2.10).

IMPORTANT NOTE:

The Rafter Knuckle screw spacing is critical for engineering compliance.

Use a low torque setting when reinstalling framework screws.

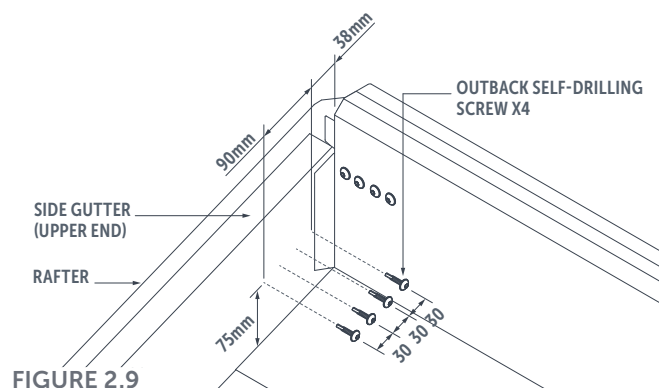


FIGURE 2.9

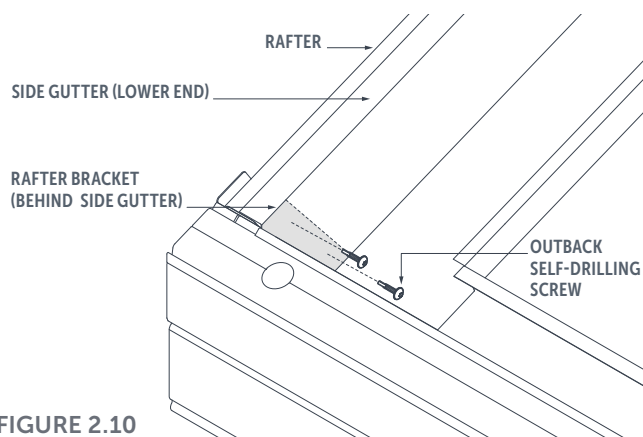


FIGURE 2.10

Mounting Extrusion Installation

Mounting Extrusion Identification

The Mounting Extrusions come at a standard 5.85 metre length. Mounting Extrusions have square holes in the front face referred to as Louvre Mounting Holes (Figure 3.0). A half Louvre Mounting Hole is found at both ends of the Mounting Extrusion.

Mounting Extrusions are positioned at both the Side Beam and Ridge using the respective Mounting Extrusion Flashings to support their connection (Figure 3.1).

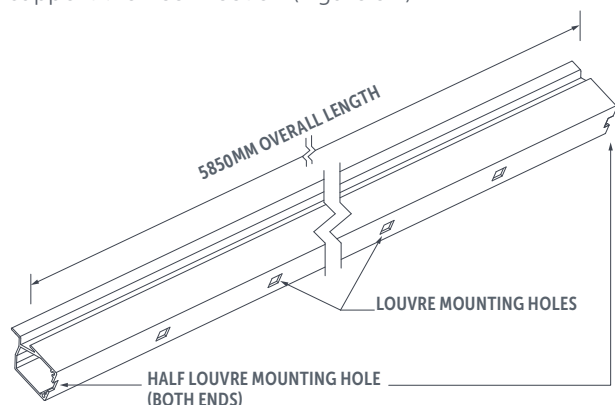


FIGURE 3.0

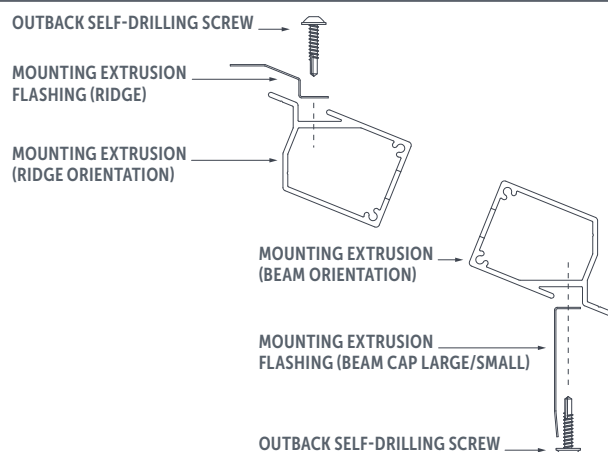


FIGURE 3.1

Mounting Extrusion Preparation (Sunroof Banks up to 5.85 metres)

For units up to 5.85 metres, measure the distance between the inside faces of the Side Gutters of the unit. This distance minus a tolerance of 5mm will be the Final Cut Length (FCL) of the Mounting Extrusion (Figure 3.2).

NOTE:

Refer to Appendix A - Universal Mounting Extrusion Cutting Guide, for a complete Mounting Extrusion cutting instruction.

Fix the Mounting Extrusion Flashings to the Mounting Extrusions using Outback Self-Drilling Screws at 15mm from each end and maximum 400mm spacing (Figure 3.3 & 3.4).

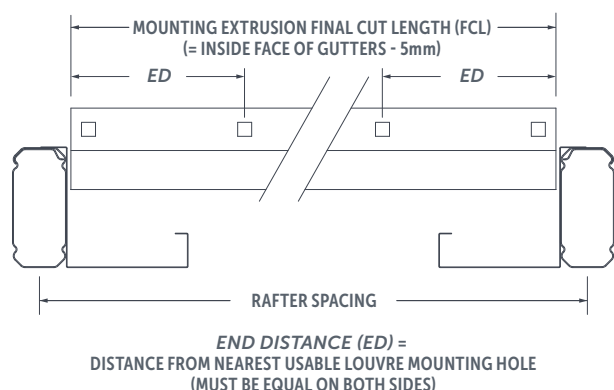


FIGURE 3.2

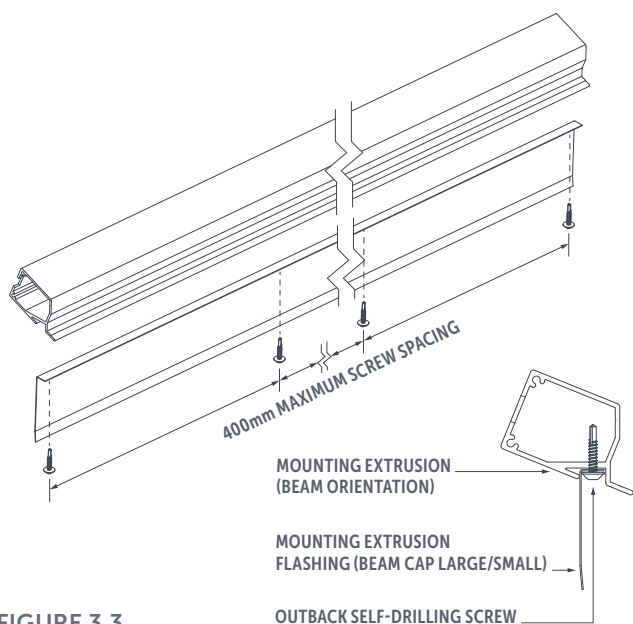


FIGURE 3.3

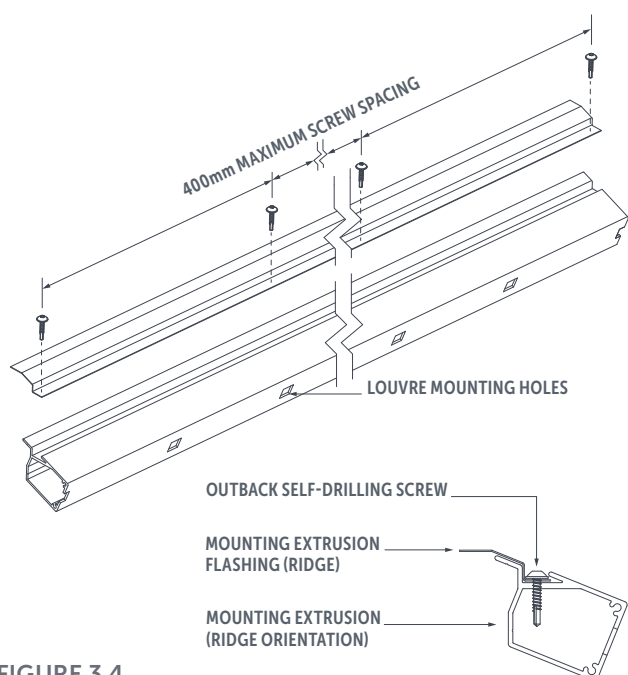


FIGURE 3.4

Mounting Extrusion Preparation (Sunroof Banks over 5.85 metres)

If the Louvre Bank is longer than 5.85 metres in length, additional Mounting Extrusions will be required. Mounting Extrusions will be butted end to end to create the additional length.

When butting Mounting Extrusions end to end, the half Louvre Mounting Holes at the butting end must align to create a full usable Louvre Mounting Hole that will receive an End Cap Bush (Figure 3.5).

Measure the distance between the inside faces of the Side Gutters of the unit. This distance minus a tolerance of 5mm will be the Final Cut Length (FCL) of the Mounting Extrusions.

NOTE:

Refer to Appendix A - Universal Mounting Extrusion Cutting Guide, for a complete Mounting Extrusion cutting instruction.

Continue Mounting Extrusion preparation as per Figure 3.3 & 3.4.

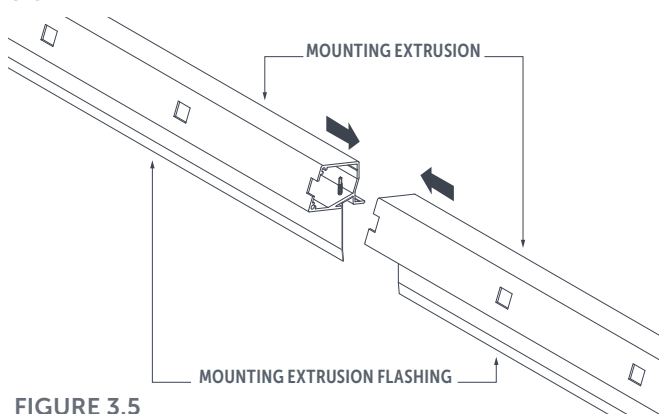


FIGURE 3.5

A spacing template has been included to make sure the distance between connecting Mounting Extrusions is precise (Figure 3.6).

During installation, clamp the second extrusion in-place and use a rubber mallet to hammer two plastic End Cap Bushes into the template to hold it across the join (Figure 3.6).

Remove the template once the two Mounting Extrusions are fixed into place.

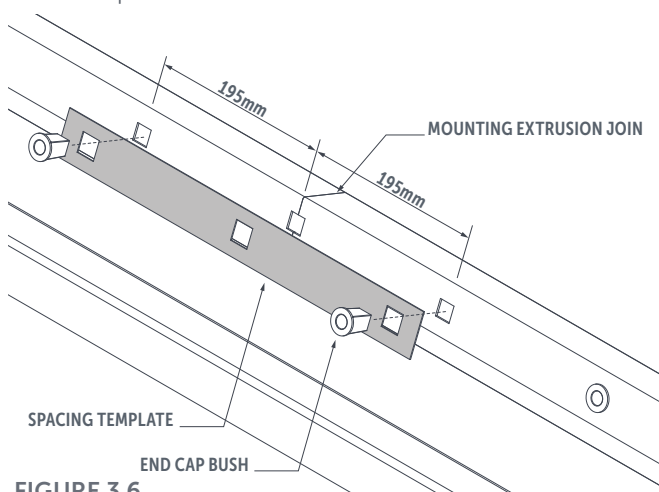


FIGURE 3.6

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Side Beam Preparation (Small Beam Cap)

Position the Mounting Extrusion(s) with connected Mounting Extrusion Flashing(s) at the Side Beam (Figure 3.7).

IMPORTANT NOTE:

Ensure the Mounting Extrusion is positioned centrally between the side Gutters providing a 2mm gap on both ends to allow for side flashing fitment.

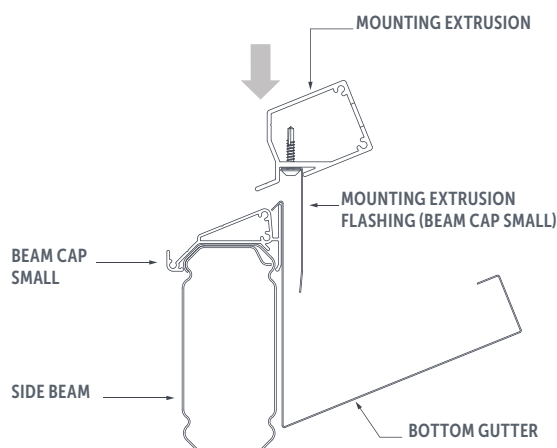


FIGURE 3.7

Secure the Mounting Extrusion(s) to the Small Beam Cap with 12gx20 Hex Head Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.8).

Secure the Mounting Extrusion Flashing(s) (Beam Cap Small) to the Outback Beam through the internal face with Outback Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.8).

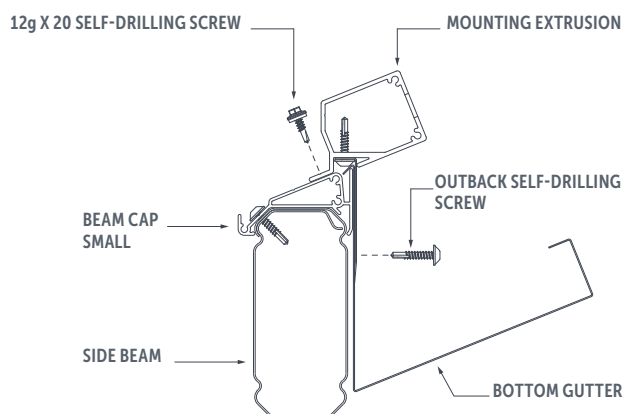


FIGURE 3.8

Side Beam Preparation (Large Beam Cap)

Position the Mounting Extrusion(s) with connected Mounting Extrusion Flashing(s) at the Side Beam (Figure 3.9).

IMPORTANT NOTE:

Ensure the Mounting Extrusion is positioned centrally between the side Gutters providing a 2mm gap on both ends to allow for side flashing fitment.

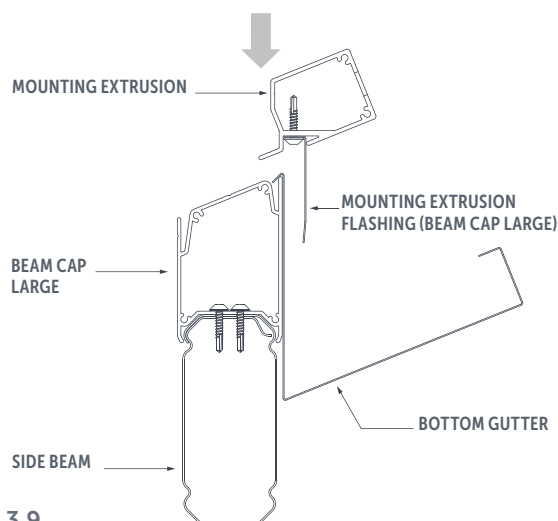


FIGURE 3.9

Secure the Mounting Extrusion(s) to the Large Beam Cap with Outback Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.10).

Secure the Mounting Extrusion Flashing (Large Beam Cap) to the Outback Beam through the internal face with Outback Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.10).

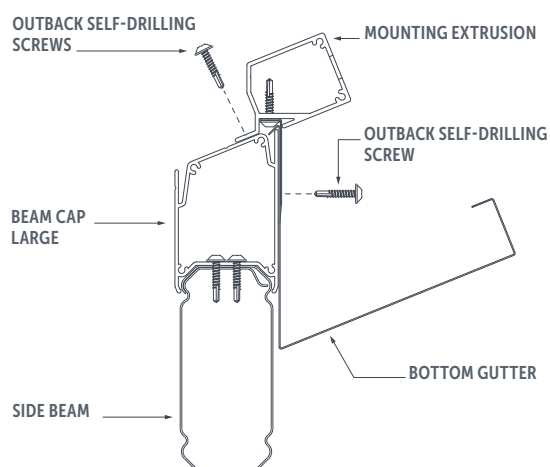


FIGURE 3.10

Ridge Beam Preparation (Louvre bank on both sides of Ridge Beam)

Position the Mounting Extrusion (Ridge) with Mounting Extrusion Flashing (Ridge) atop the Ridge Beam, on top of the Top Gutter (Figure 3.11).

IMPORTANT NOTE:

Ensure the Mounting Extrusion is positioned centrally between the side gutters providing a 2mm gap on both ends to allow for side flashing fitment.

Louvre Mounting Holes between the Mounting Extrusion (Ridge) and the Mounting Extrusion (Side Beam) should be aligned to ensure louvres are parallel with the sunroof bank framework.

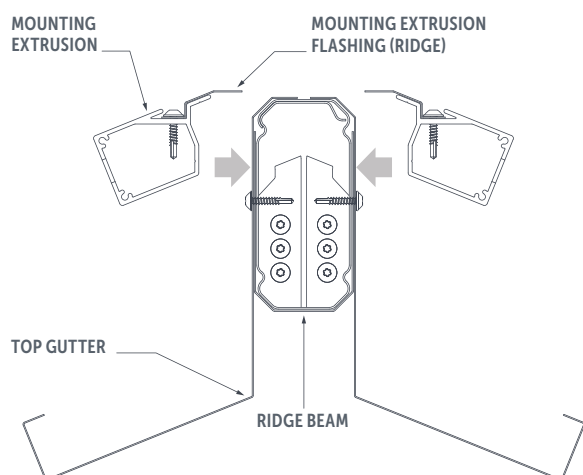


FIGURE 3.11

Secure through the top of the Mounting Extrusion Flashing (Ridge) into the top of Ridge Beam and through the Mounting Extrusion Mounting Holes into the side of the Ridge Beam using Outback Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.12).

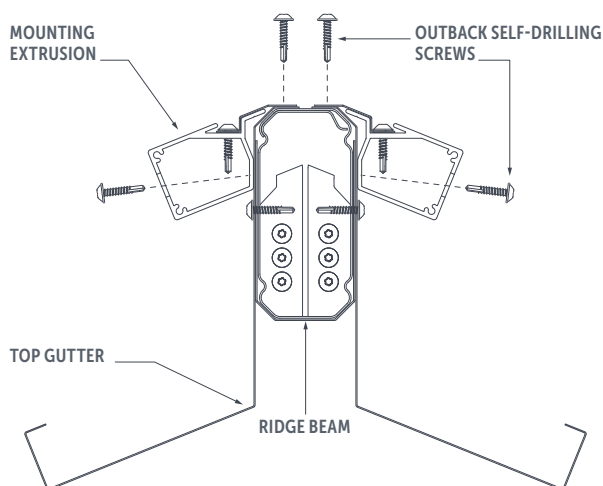


FIGURE 3.12

Ridge Beam Preparation (Louvre bank on one side of Ridge Beam)

This step is only required for patios with a louvre bank on one side of the Ridge Beam and solid roof decking on the other side.

NOTE:

The Ridge Extrusion Top Flashing profile shown in this section is for use with Outback Deck. The profile will differ slightly for use with CGI, or Cooldek. The Installation sequence will remain the same.

Cut along length of the Ridge Extrusion at the location shown in (Figure 3.13).

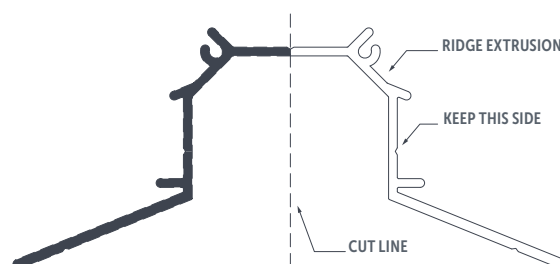


FIGURE 3.13

Position the Ridge Extrusion(s) atop the Ridge Beam, on top of the Top Gutter. Secure at both ends using four Outback Self-Drilling Screws (Figure 3.14).

Continue to secure the Ridge Extrusion using Outback Self-Drilling Screws at maximum 500mm centres (Figure 3.14 & 3.15).

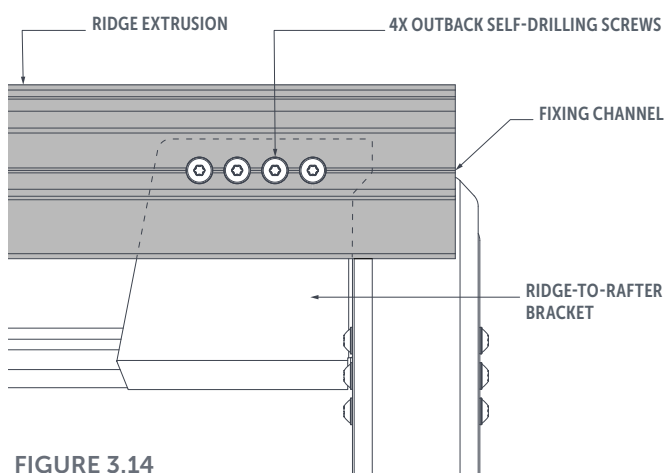


FIGURE 3.14

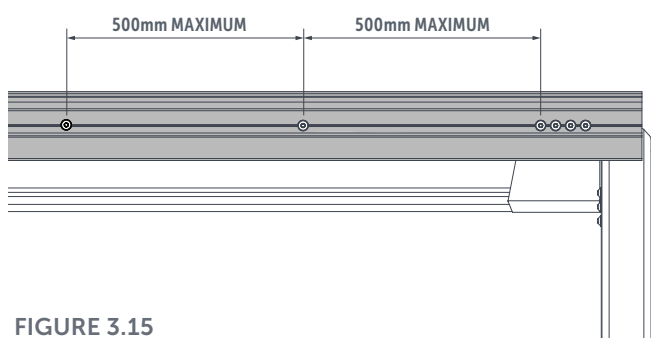


FIGURE 3.15

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Position the Mounting Extrusion with Mounting Extrusion Flashing (Ridge) atop the Ridge Beam, on top of the Top Gutters (Figure 3.16).

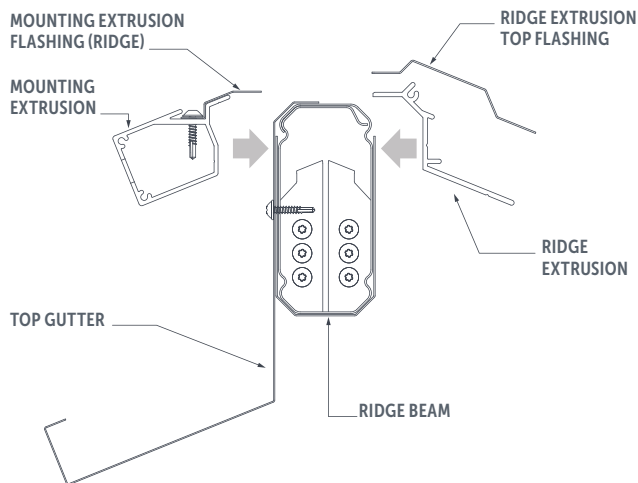


FIGURE 3.16

Secure through the top of the Mounting Extrusion Flashing (Ridge) into the top of Ridge Beam and through the Mounting Extrusion Mounting Holes into the side of the Ridge Beam using Outback Self-Drilling Screws at 15mm from each end and maximum 400mm centres (Figure 3.17).

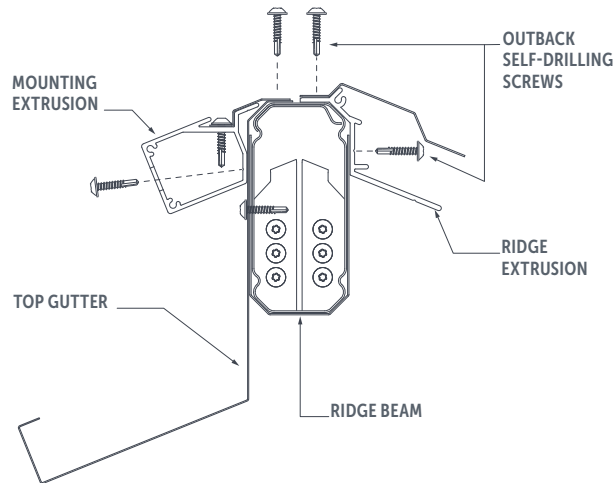


FIGURE 3.17

Drainage Preparation

Downpipe Outlet Installation

Cut an opening in the lower corner of the gutter to fit the size of your specific downpipe outlet. Position the outlet through the hole (Figure 4.0 & 4.1).

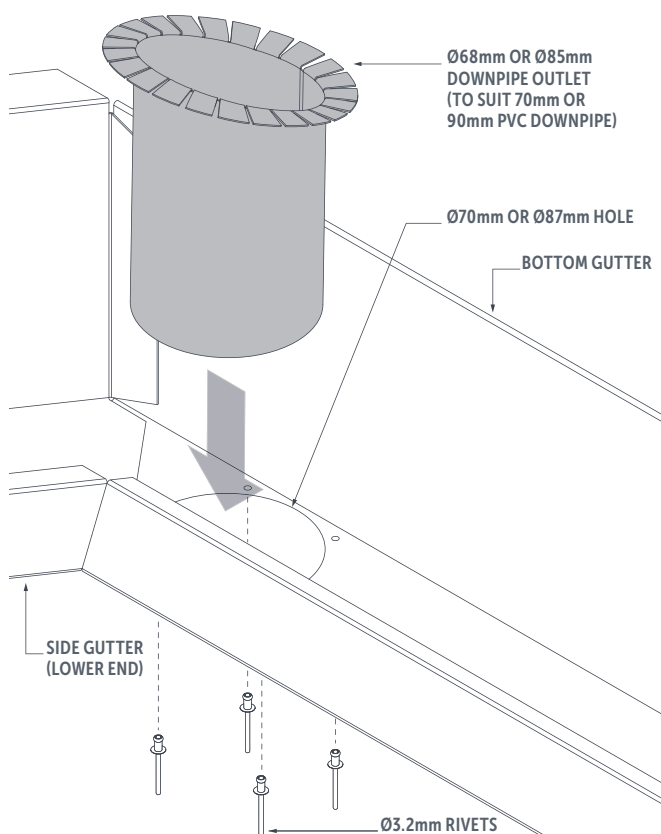


FIGURE 4.0

Drill four Ø3.5mm holes and fasten in-place using four rivets (Figure 4.0 & 4.1). Silicone all material connections and joins.

NOTE:

One Downpipe is required for each Sunroof bank.

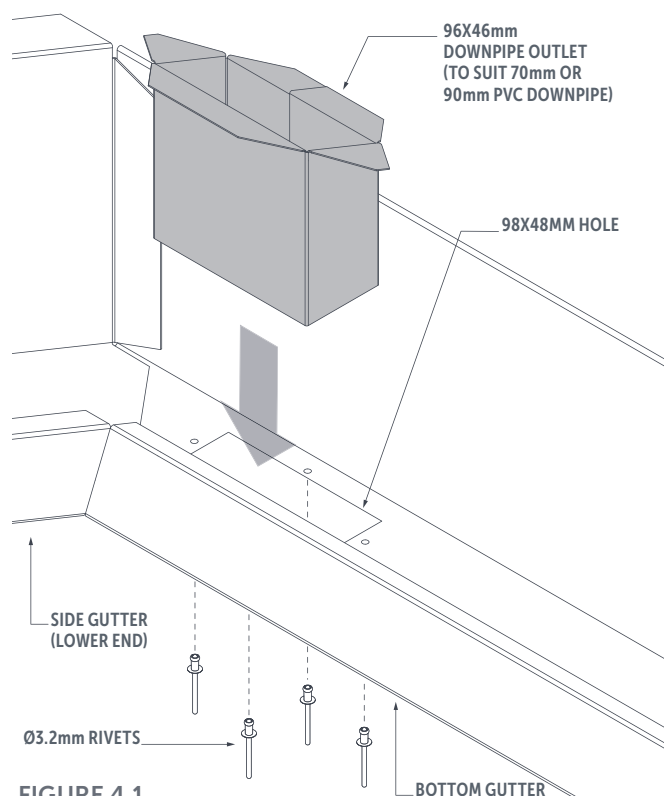


FIGURE 4.1

Sunroof Gutter Fixing

Drill one $\varnothing 5.0\text{mm}$ hole through each internal corner tag and fasten in-place using a $\varnothing 4.8\text{mm}$ rivet.

Drill four $\varnothing 5.0\text{mm}$ holes through the underside of the gutter along the diagonal mitre seam and fasten in-place using $\varnothing 4.8\text{mm}$ rivets (Figure 4.2). Silicone all material connections and joins.

Clean gutters to ensure they are free of any swarf prior to silicone.

Use silicone to seal gaps, tags, rivets and mitre overlaps.

Repeat at each of the four corners.

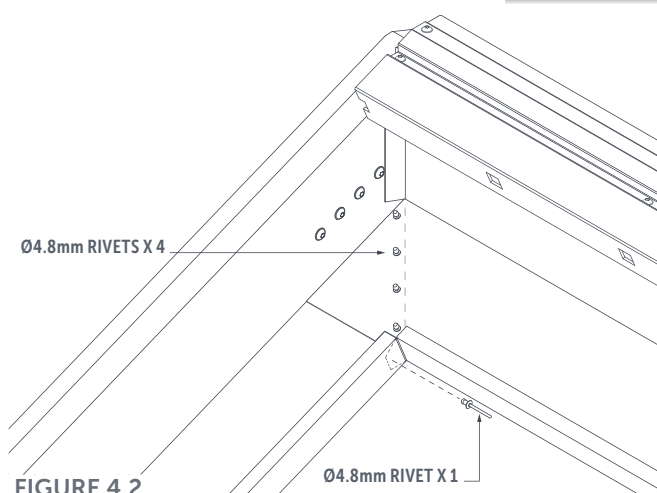


FIGURE 4.2

Louvre Installation

End Cap Bush Installation

Insert End Cap Bushes into each of the square Louvre Mounting Holes (Figure 5.0). Using a rubber mallet, tap the bushes into position.

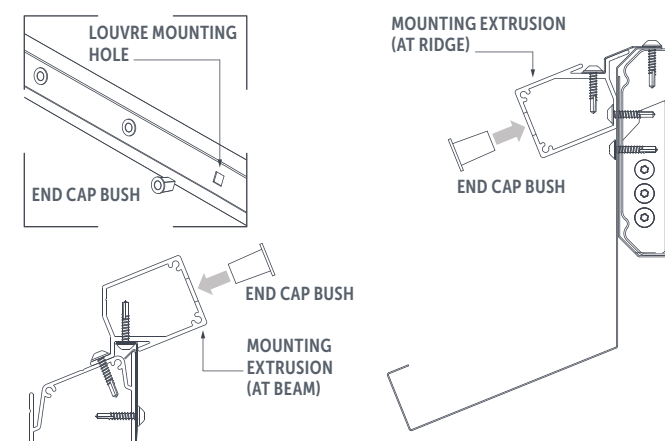


FIGURE 5.0

Install two Louvres at each end of the sunroof bank(s) to check alignment of Sunroof bank framework. Remove Louvres. Louvres will be completely installed at a later step.

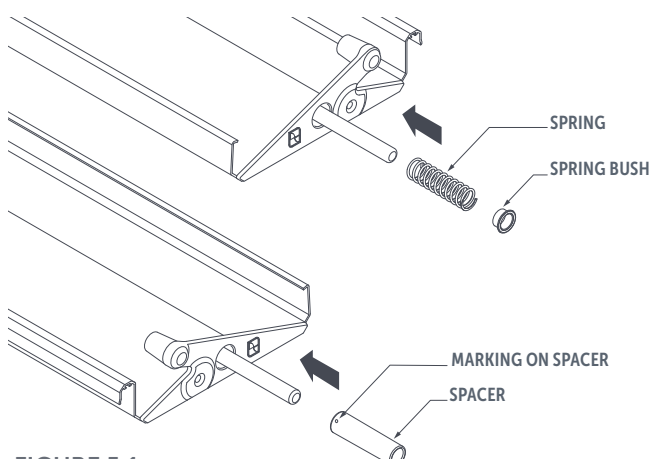


FIGURE 5.1

Spring and Spacer Ends

Establish the correct closing up and closing down orientation of the Sunroof Bank. Springs will always be at the Ridge End cap. Spacers will always be at the lower Side Beam End cap.

Slide a Spring Bush into the end of each Spring and thread over the End Cap Pin. (Figure 5.1).

At the opposite end of the Louvre, slide a plastic Spacer over the End Cap Pin. The mark on the Spacer must be at the inside end of the pin (Figure 5.1).

Install Louvres

Insert the top end (Spring end) into the first Mounting Extrusion (Ridge) Mounting Hole and compress the spring completely. (Figure 5.2).

Lower the Spacer end and insert it into the aligning Mounting Extrusion (Side Beam) Mounting Hole.

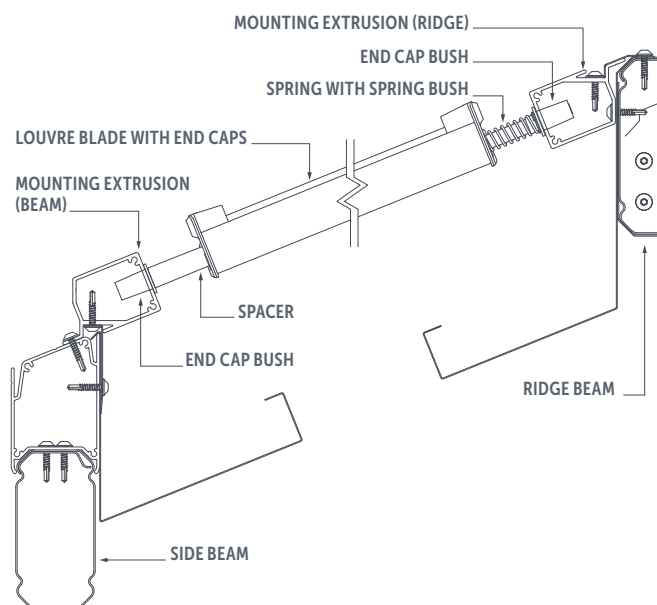


FIGURE 5.2

Outback® Gable Sunroof Installation Manual

Rafter Flashing/Side Capping Installation

Rafter Flashing & Side Capping is used to cover and seal the Rafters adjacent to Sunroof banks.

Select the appropriate installation details from the following pages (relative to the configuration of the Outback Gable Patio).

Side Capping Preparation (CGI)

The CGI Side Capping will cover adjacent CGI roofing and must be trimmed to allow it to fit over the Beam Cap at the Side Beam end and parallel with the Ridge Beam center at the Rafter Apex (Figure 6.0).

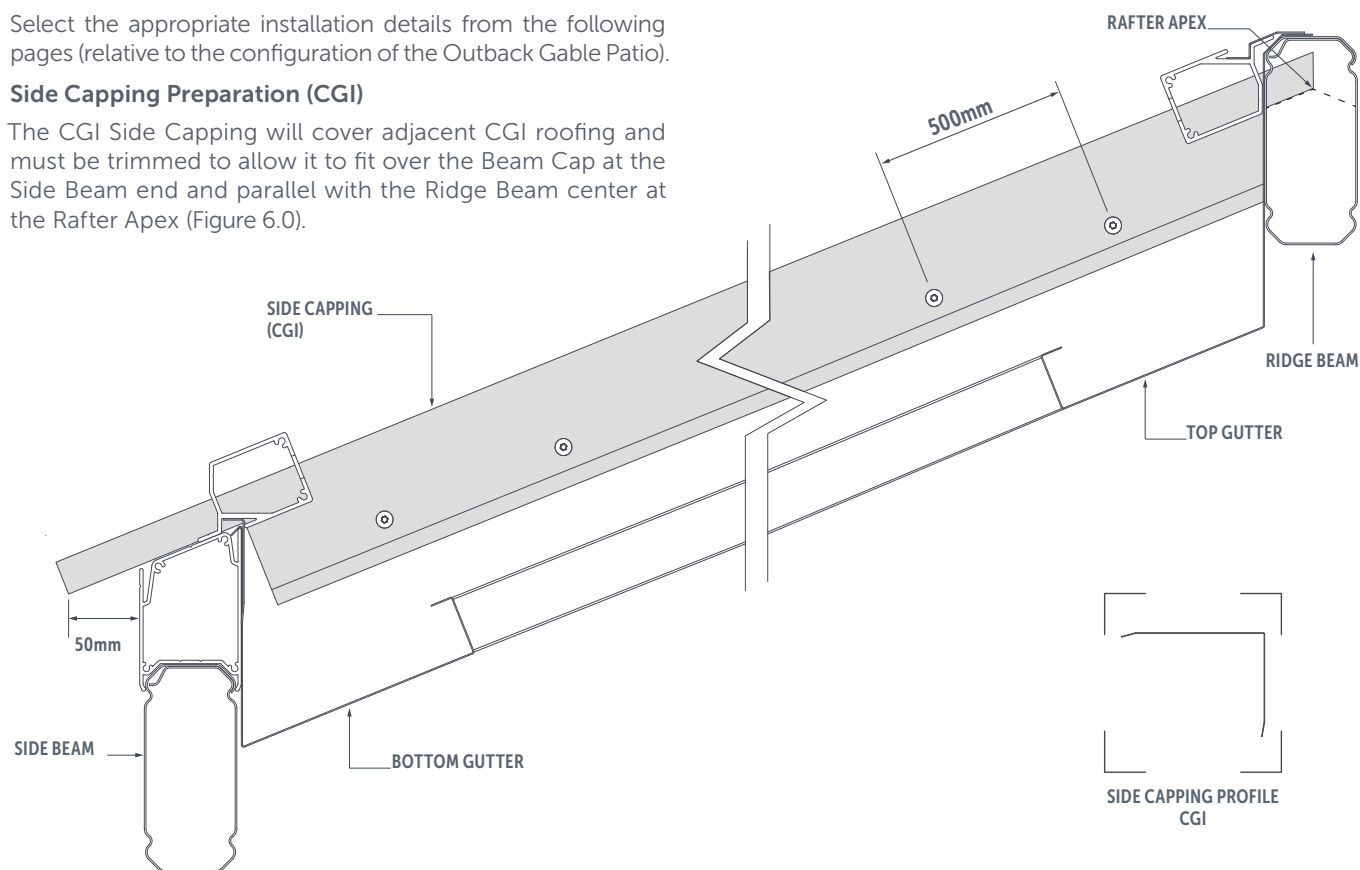


FIGURE 6.0

Measure and mark out trim lines as shown in (Figure 6.1).

Using tin snips, trim marked out lines.

Slide CGI Side Capping into position between the Side Gutter and Mounting Extrusions (Figure 6.0).

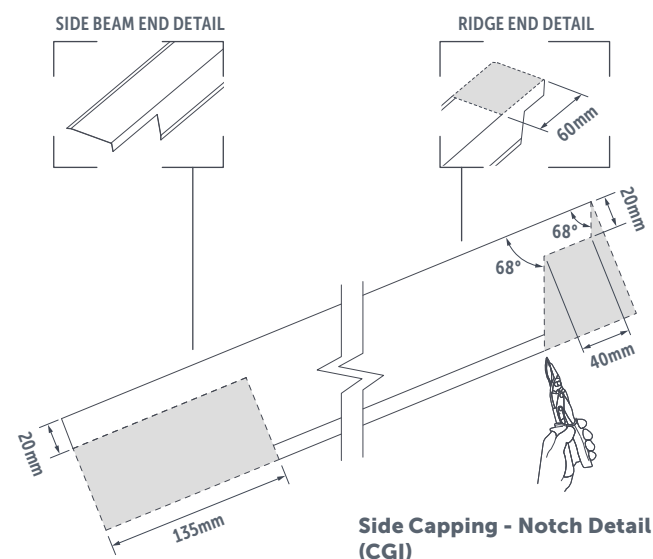


FIGURE 6.1

Fix through the internal face of the Side Capping to the Side Gutter and Rafter using Outback Self-Drilling Screws at 500mm centres (Figure 6.2).

Fix Through the top face of the Side Capping into the crest of the CGI nearest the Rafter using $\varnothing 3.2\text{mm}$ rivets at 500mm centres (Figure 6.2).

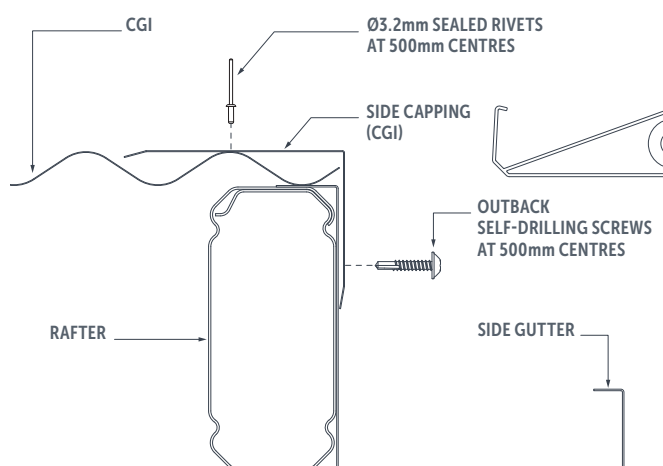


FIGURE 6.2

Rafter Flashing Preparation (Outback Deck)

The Outback Deck Rafter Flashing will cover adjacent Outback Deck roofing and must be trimmed to allow it to fit over the Beam Cap at the Side Beam end and parallel with the Ridge Beam center at the Rafter Apex (Figure 6.3).

Measure and mark out trim lines as shown in (Figure 6.4).

Using tin snips, trim marked out lines.

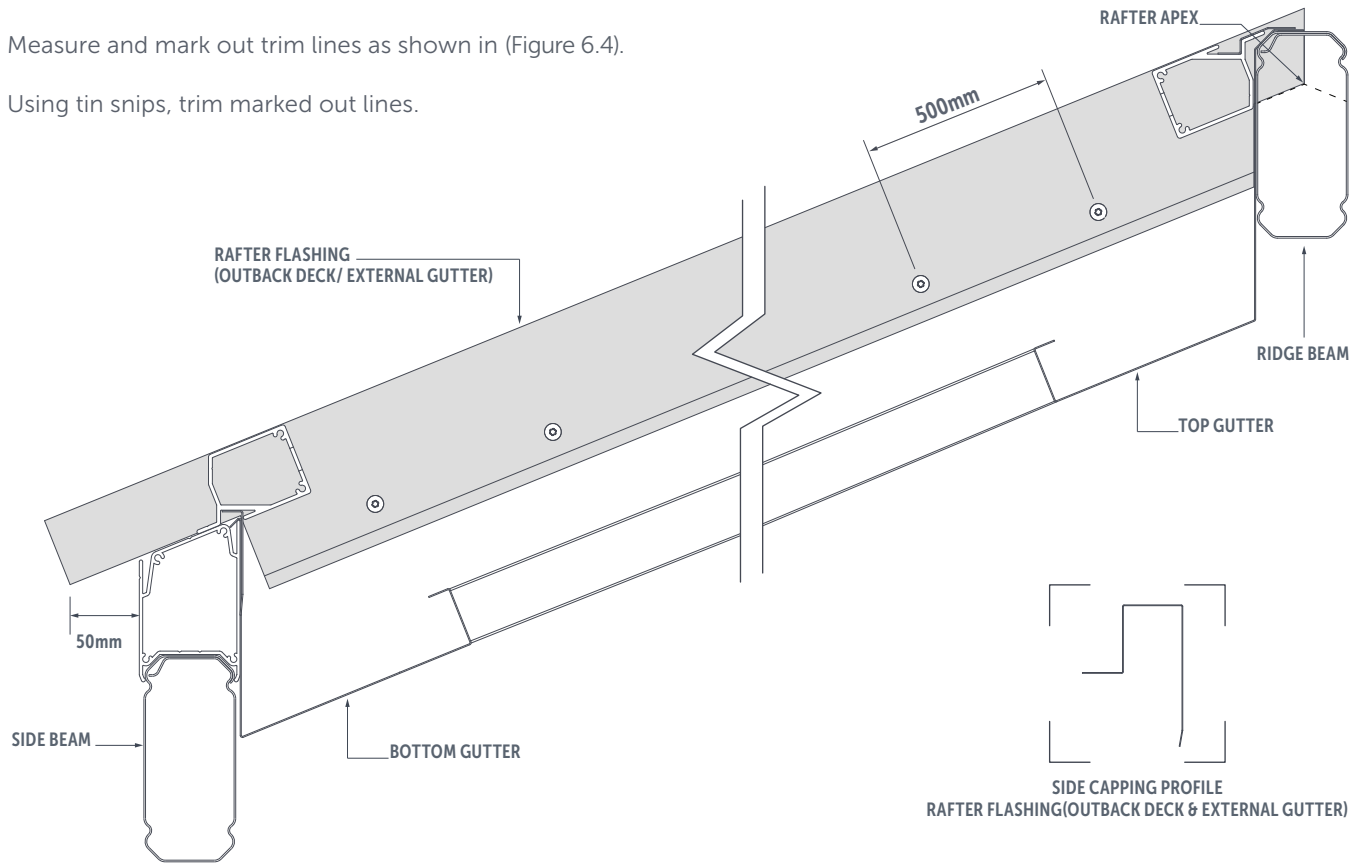


FIGURE 6.3

Slide Rafter Flashing Side Capping into position between the Side Gutter and Mounting Extrusions (Figure 6.3).

Fix through the internal face of the Rafter Flashing to the Side Gutter and Rafter using Outback Self-Drilling Screws at 500mm centres (Figure 6.5).

Fix Through the rear lip of the Rafter Flashing into the Rafter using 12g x 20mm hex head self-drilling screws with neoprene washers at 500mm centres (Figure 6.5).

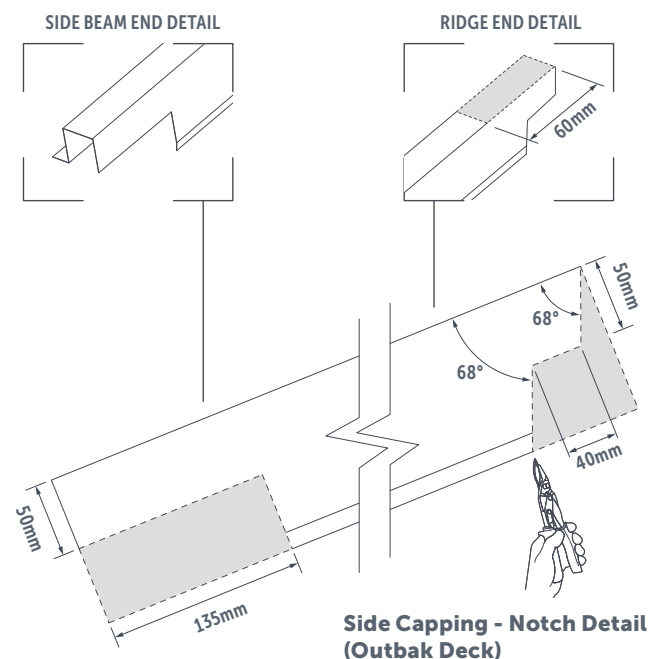


FIGURE 6.4

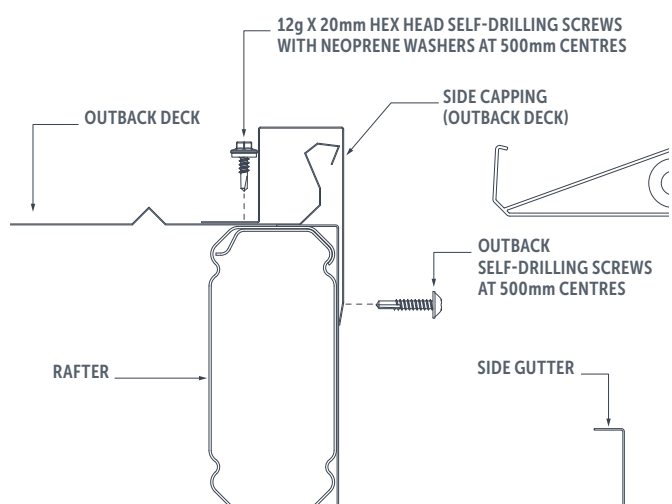


FIGURE 6.5

Outback® Gable Sunroof Installation Manual

Side Capping Preparation (Cooldek CGI & Cooldek Classic)

The Cooldek Side Capping will cover adjacent Cooldek and must be trimmed to allow it to fit over the Beam Cap at the Side Beam end and parallel with the Ridge Beam centre at the Rafter Apex. (Figure 6.6).

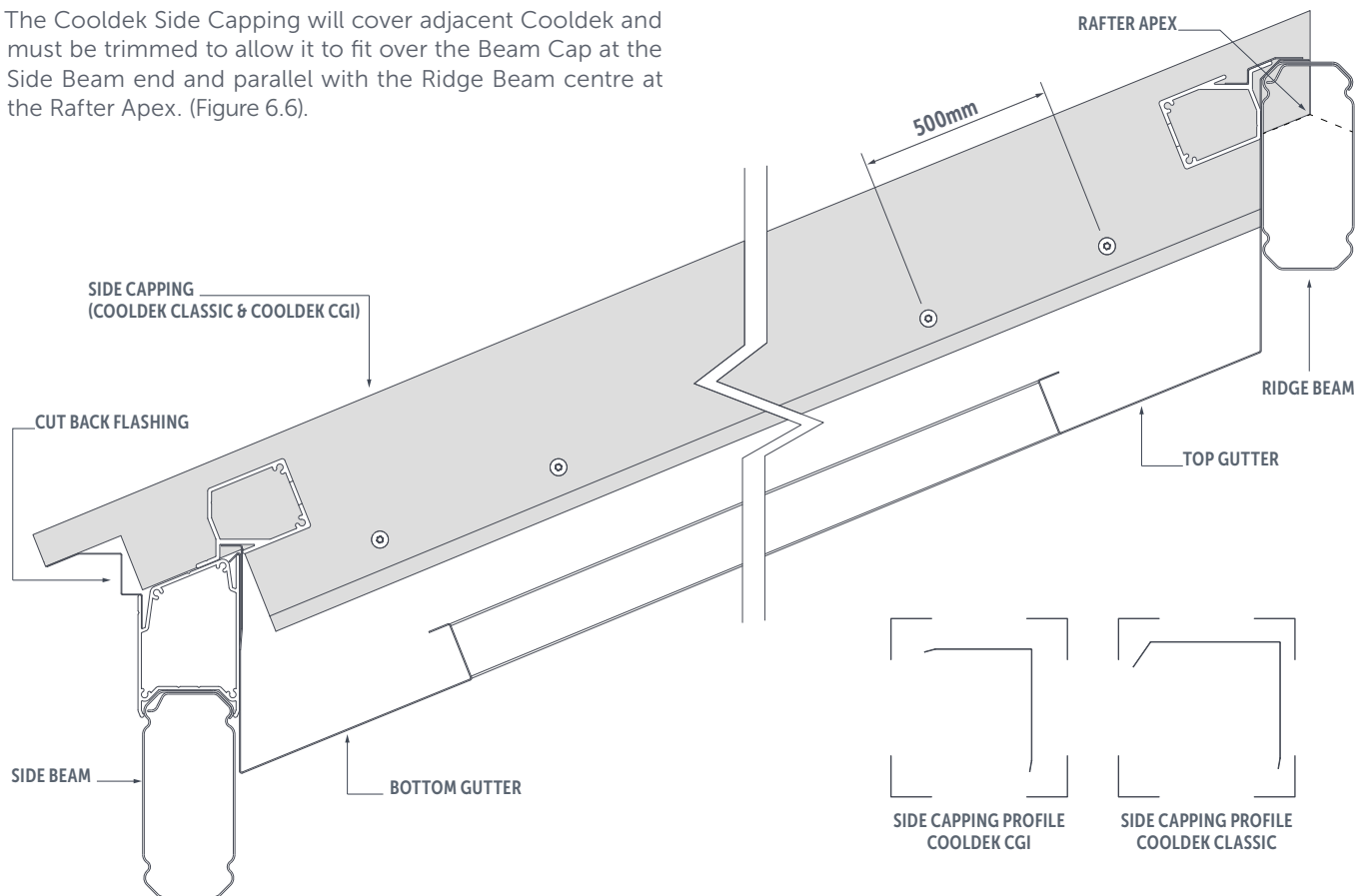


FIGURE 6.6

For Cooldek Classic Side Capping, measure and mark out trim lines as shown in (Figure 6.7).

For Cooldek CGI Side Capping, measure and mark out trim lines as shown in (Figure 6.8).

Using tin snips, trim marked out lines.

Slide Cooldek Side Capping into position between the Side Gutter and Mounting Extrusion (Figure 6.6).

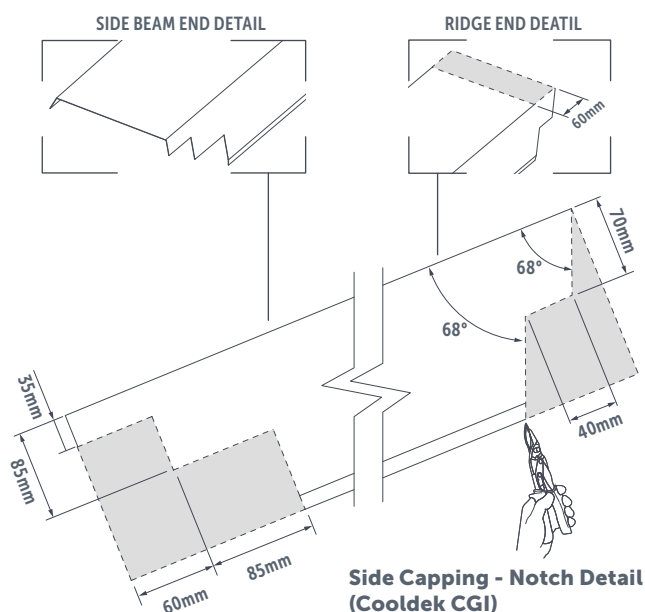


FIGURE 6.7

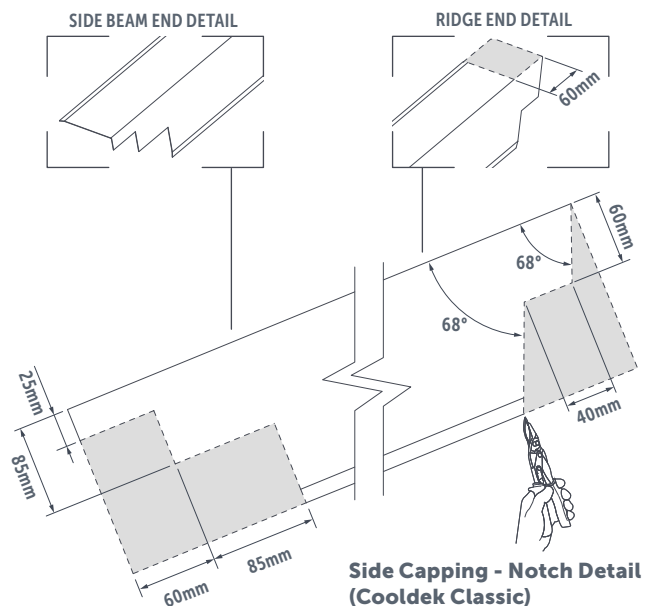


FIGURE 6.8

Fix through the top face of the Side Capping into the crest of Cooldek using 12g x 20mm hex head self-drilling screws with neoprene washers at 500mm centres (Figure 6.9 & 6.10).

Fix through the internal face of the Side Capping to the Side Gutter and Rafter using Outback Self-Drilling Screws at 500mm centres (Figure 6.9 & 6.10).

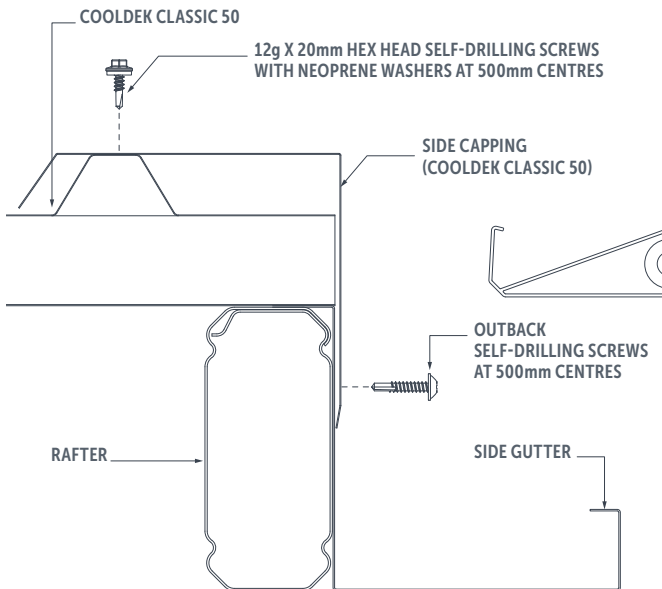


FIGURE 6.9

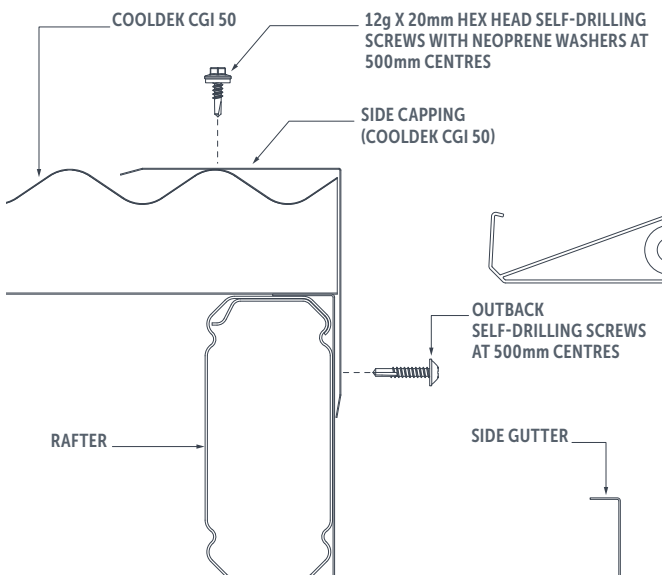


FIGURE 6.10

Rafter Flashing (Double) Preparation

For units with multiple Sunroof Banks split by an adjacent Rafter, a Rafter Flashing (Double) will be required (Figure 6.13).

The Rafter Flashing (Double) will cover Rafters between Sunroof banks and must be trimmed to allow it to fit parallel with the Ridge Beam centre at the Rafter Apex. (Figure 6.11).

For Rafter Flashing (Double), measure and mark out trim lines as shown in (Figure 6.12). Using tin snips, trim marked out lines.

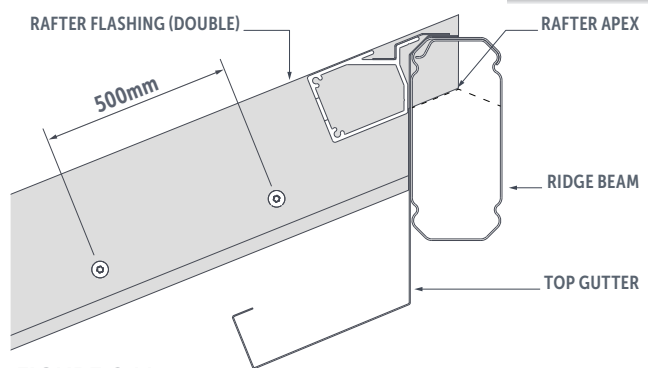
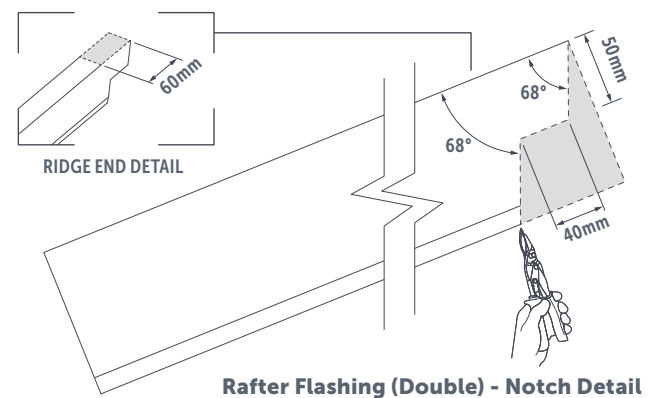


FIGURE 6.11



Rafter Flashing (Double) - Notch Detail

FIGURE 6.12

Position the Rafter Flashing (Double) Support ensuring it is centred along the Rafter. Fix using Outback Self-Drilling Screws at 500mm centres (Figure 6.13).

Position the Rafter Flashing (Double) over the Rafter Flashing (Double) Support and slide into position between the Side Gutter and Mounting Extrusions (Figure 6.13).

Fix through the Rafter Flashing (Double) and Side Gutters using Outback Self-Drilling Screws at maximum 500mm centres (Figure 6.13).

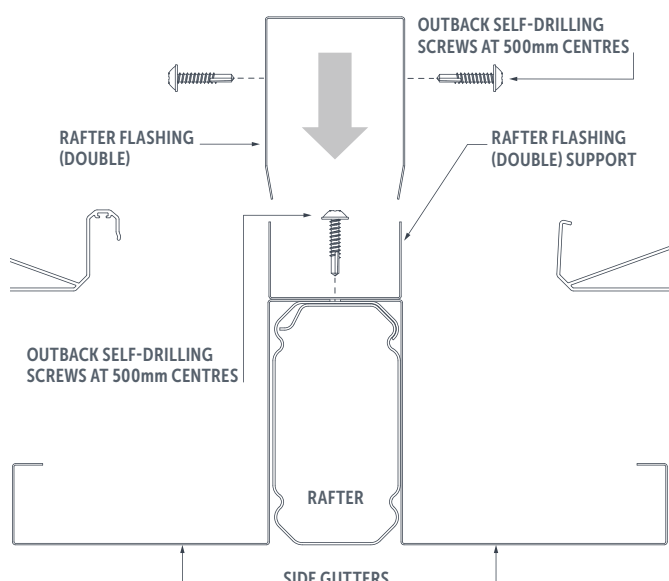


FIGURE 6.13

Outback® Gable Sunroof Installation Manual

End Rafter Flashing Preparation

Where Sunroof Banks finish at an End Rafter, Rafter Flashings are required on the End Rafters facing in towards the Louvres.

Rafter Flashings must be trimmed to allow it to fit over the Beam Cap at the Side Beam end and parallel with the Ridge Beam face at the opposing end (Figure 6.14).

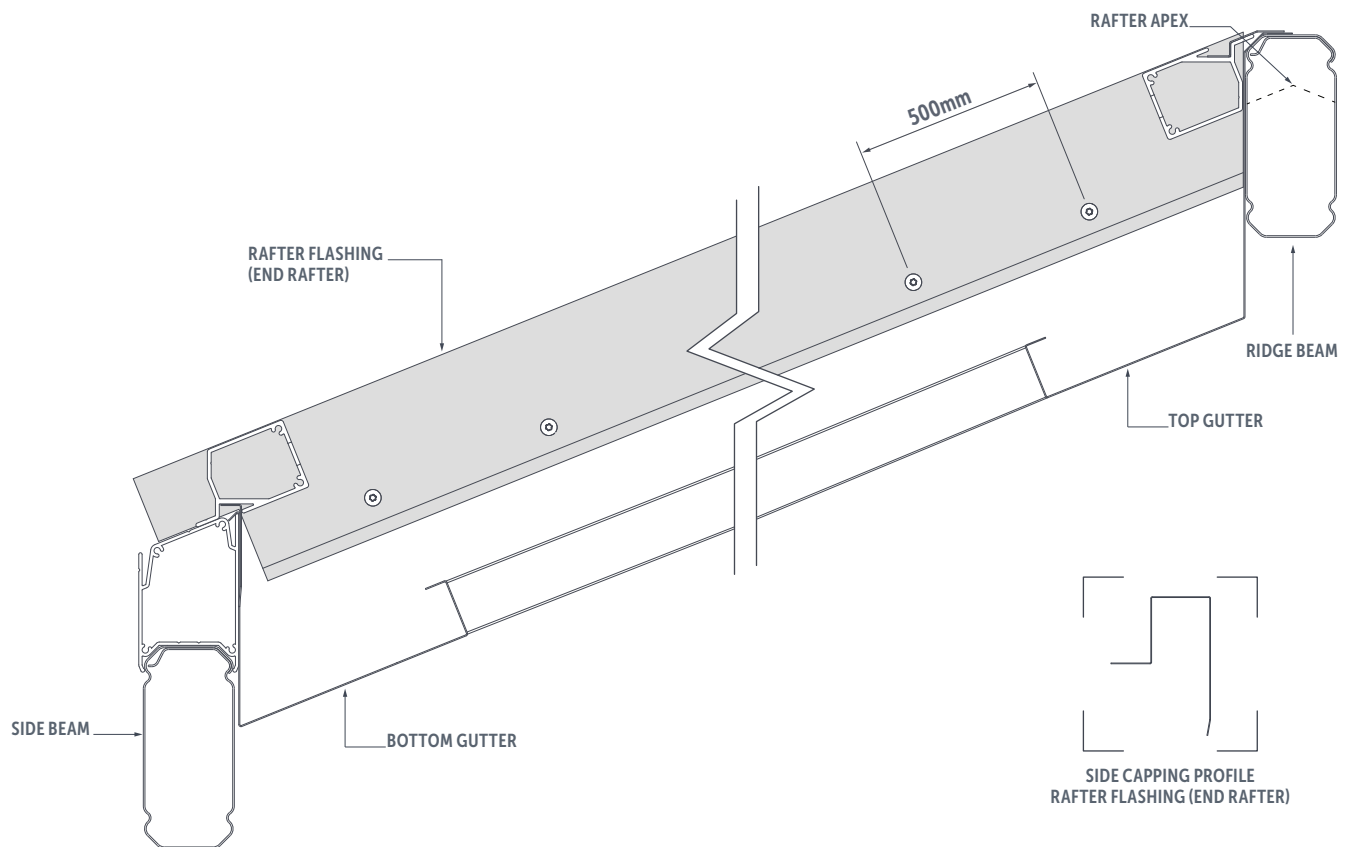


FIGURE 6.14

For End Rafter Flashings, measure and mark out trim lines as shown in (Figure 6.15).

Using tin snips, trim marked out lines.

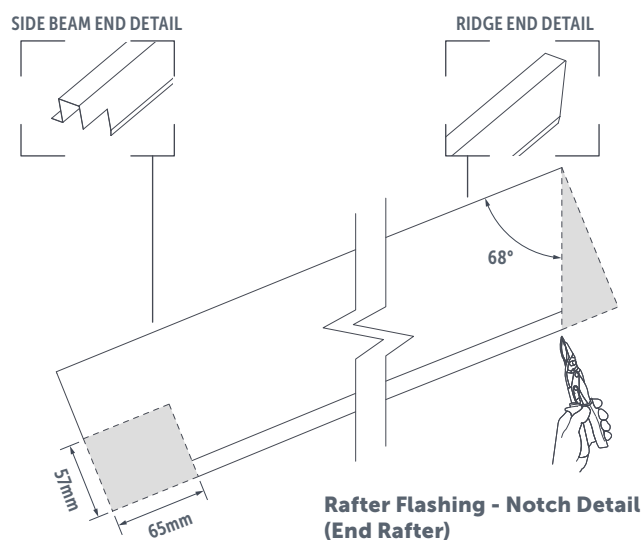


FIGURE 6.15

Mount the Rafter Flashings over the rafter (Figure 6.14).

Fix through the internal face of the gutter and the top face of the Rafter with Outback Self-Drilling Screws at 500mm centres (Figure 6.16).

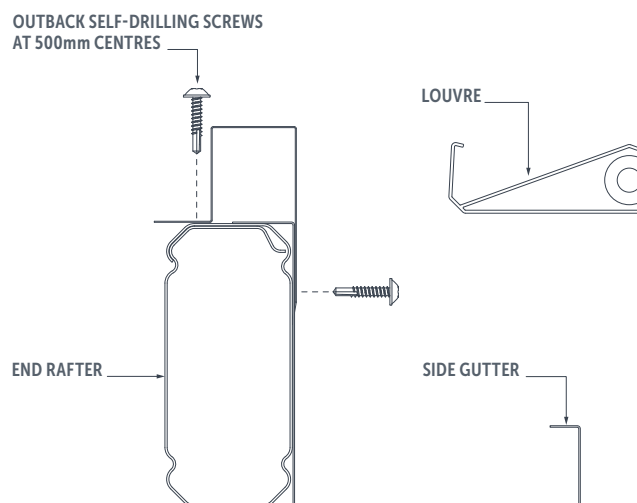


FIGURE 6.16

Beam Cap Flashing Installation

Select the appropriate installation section relative to the configuration of the Outback Gable Patio.

NOTE:

All figures show a Large Beam Cap unless installation details differ between the Large and Small Beam Cap.

Beam Cap Flashing Installation (No External Gutter)

Position the Cover Flashing on top of the Mounting Extrusion and centrally between Rafters. Apply silicone along the top edge between the Cover Flashing and Mounting Extrusion.

Fix into the Mounting Extrusion using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at maximum 500mm centres. Fix into the Beam Cap with Outback Self-Drilling Screws at 500mm centres (Figure 7.0).

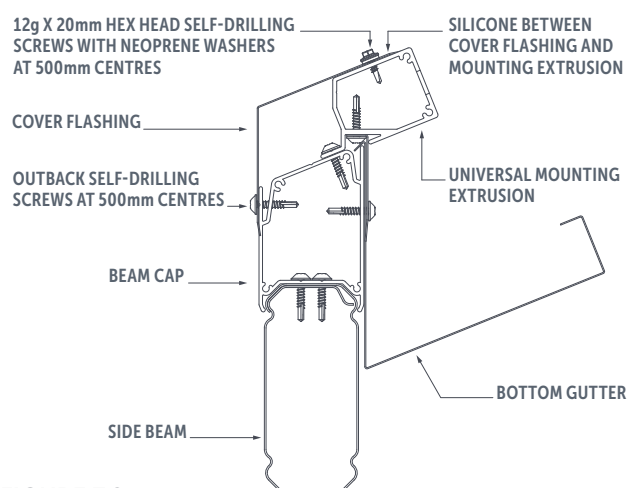


FIGURE 7.0

Beam Cap Flashing Installation (External Gutter/Adjacent Outback Deck or CGI)

NOTE:

Install Edge Gutter to Outback Gable Patio before completing this step.

Position the Cover Flashing on top of the Mounting Extrusion and centrally between the Rafter Flashing and/or Side Capping. Apply silicone along the top edge between the Cover Flashing and Mounting Extrusion.

Fix into the Mounting Extrusion using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at 500mm centres (Figure 7.1).

Actuator Installation

Determine the approximate location for the Actuator. Install the Louvres as per Louvre Installation (Page 11) and leave two Louvres out at the Actuator location to allow for easy installation of the Actuator Cover and Actuator Assembly.

NOTE:

The Actuator can be located anywhere along the Mounting Extrusion at the Side Beam (Bottom of Louvres), however, it must be at least two louvres in from the ends and three Louvres either side of a join in the Mounting Extrusion.

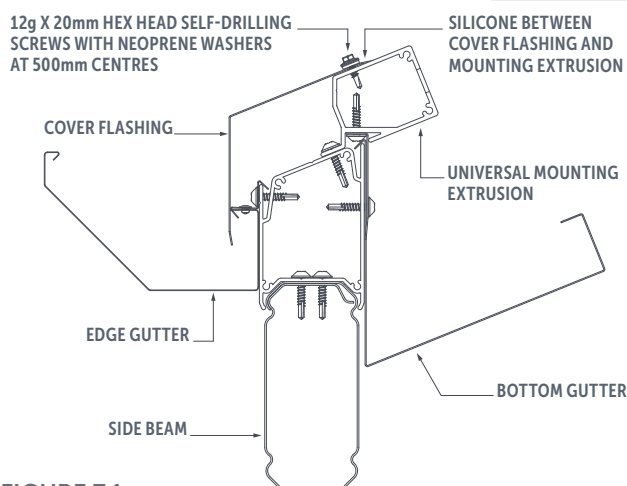


FIGURE 7.1

Beam Cap Flashing Installation (Adjacent Cooldek CGI & Cooldek Classic)

NOTE:

Install Edge Gutter to Outback Gable Patio before completing this step.

Hook the Cover Flashing (Cutback) over lip of the Cutback Flashing. Position the opposing end of the Cover Flashing (Cutback) on top of the Mounting Extrusion (Beam). Apply silicone along the top edge between the Cover Flashing and Mounting Extrusion.

Fix into the Mounting Extrusion (Beam) using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at 500mm centres (Figure 7.2).

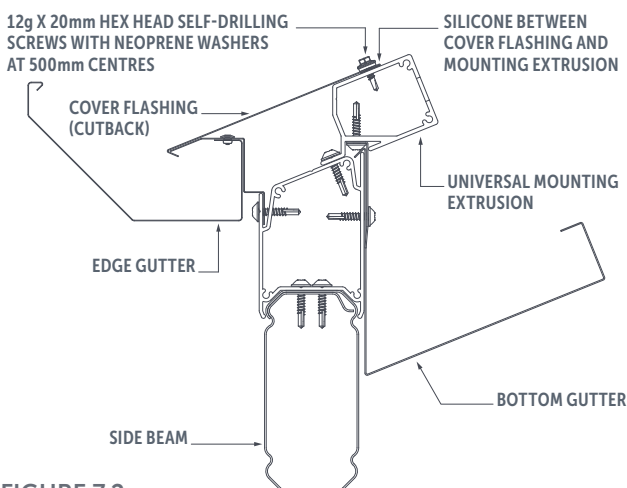


FIGURE 7.2

Electronic Control Box

The control box must be installed in a position that is protected from direct weather and sharp objects. The control box must not be installed within two metres of a large air-conditioning unit or large sources of electrical noise.

A suitable location may be to mount the box against an exterior wall directly under the eaves. A standard single mains power point is required to be located directly next to the control box (within 1800mm).

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Lay the Actuator connection cable on the ground from the Control Box position to the Actuator position to ensure there is enough overall cable length. The kit has been supplied with a 6 meter connection cable for both the Actuator and Rain Sensor.

If an additional Actuator cable is required, an extension cable can be purchased and used for up to 18 meters in length.

Fix the Control Box through the four pilot holes on the Cover Box (Figure 8.0). If fixing to an adjacent structure use fasteners suited to the material being fixed to.

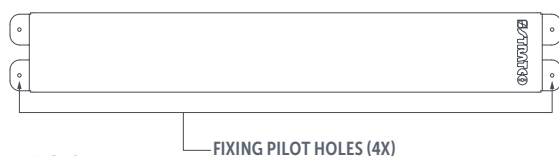


FIGURE 8.0

Using the Remote Control

The Remote Control provided is used to control all Sunroof banks within the unit.

In units with multiple banks, the two round buttons on the Remote Control are used to select the appropriate bank channel. Channel one (1) is always used to control all banks simultaneously. All other channels can be selected to operate banks individually.

Pressing the OPEN or CLOSE button will cause the roof to start moving in the desired direction. The roof will continue until fully open or fully closed, or until the STOP button is pressed. The stop button will stop the roof at any point.

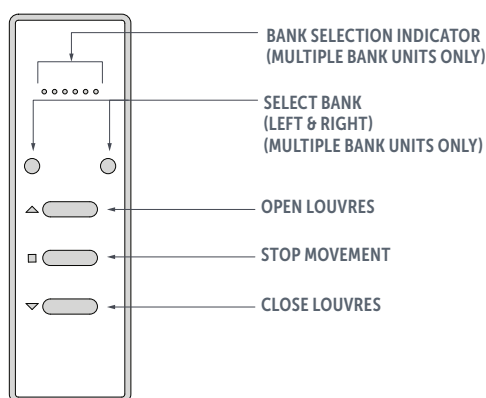


FIGURE 8.1

Assembling Actuator Components

Pre-assemble the Actuator components at ground level. Attach the Drive Arm to the Actuator with an M8x10x20 shoulder bolt and secure with an M8 washer and lock-nut (Figure 8.2 or 8.3). The Drive Arm should be orientated so the square edge (with 90° angle) is facing the Actuator.

NOTE:

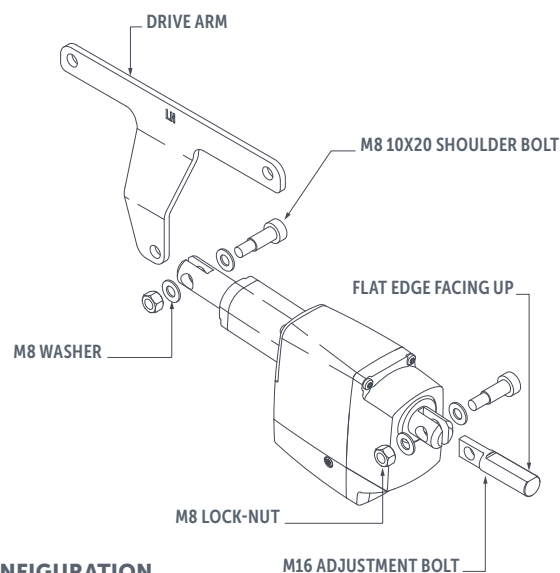
Sunroof systems will always operate with the Actuator pulling the Louvres open. The location of the Actuator in relation to the opening direction of the Louvres will dictate whether a LH or RH Actuator kit is provided.

The appropriate orientation has been determined by Stratco, based on the customer's selection of opening direction of the Louvres. Blade Opening and Closing direction must not be changed during installation.

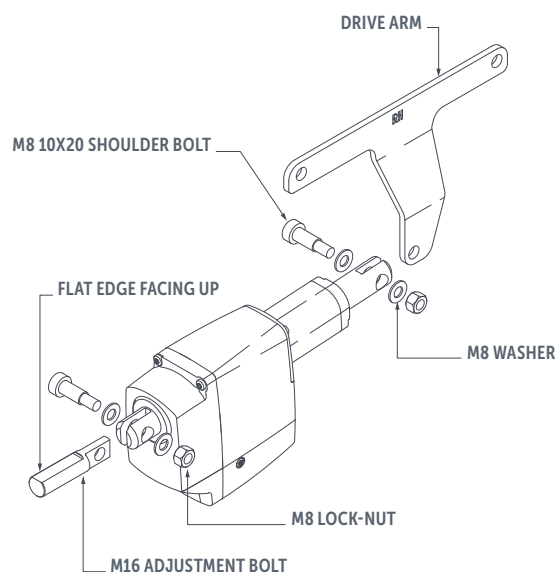
Attach the Adjustment Bolt to the other end of the Actuator with an M8x10x20 shoulder bolt (Figure 8.2 & 8.3). Secure with an M8 washer and lock-nut (do not over tighten the lock nut). Ensure the flat surface on the adjustment bolt faces up.

Thread the M16 nut on to the end of the Adjustment Bolt so the nut is approximately 20mm in from the end of the Adjustment Bolt (Figure 8.2 & 8.3). Insert the Adjustment Bolt through the circular cut out located in the side of the Actuator Cover, and secure the cover with the M16 Dome Nut (Figure 8.2 & 8.3).

The Actuator and Cover are now ready to be fixed to the Mounting Extrusion (Beam) within the framework.

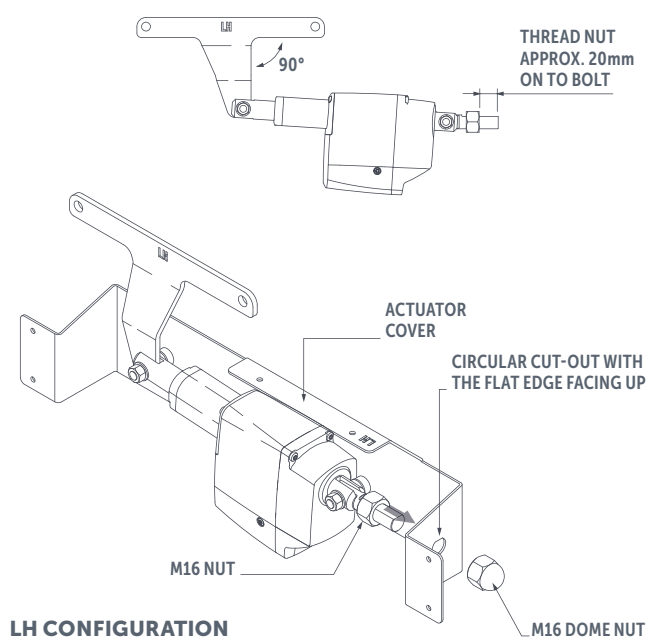


LH CONFIGURATION



RH CONFIGURATION

FIGURE 8.2



LH CONFIGURATION

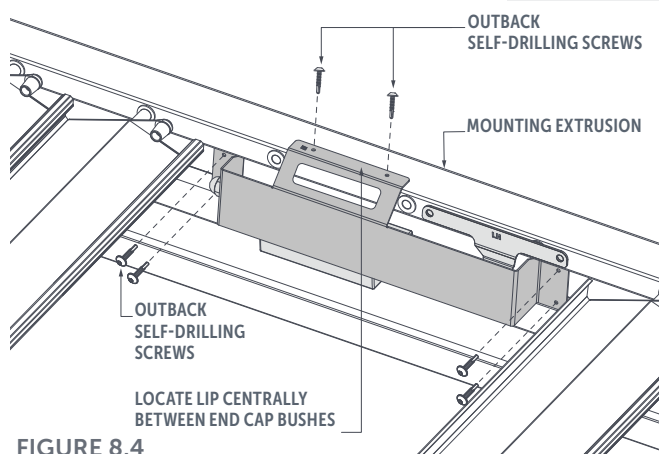


FIGURE 8.4

Running Actuator Cables

IMPORTANT NOTE:

The Control Box must be unplugged from the mains power.

Run the Actuator Connection Cable from the Actuator to the Control Box location. The cable must be protected from the weather and sharp objects. The cable can be installed so that it runs through the Outback Beam, passing through the end of the Beam and Fascia, Eaves and finally to the Control Box location.

Drill a hole next to the Actuator Cover, ensuring it is above the Gutter line (Figure 8.5). Use a 20mm drill bit with 5mm pilot hole to drill through the front face of the Mounting Extrusion Flashing and Outback Beam. A Wire Pull-Through Cable may be required to pull the cable through and out the end of the beam. Allow for some cable length at the Actuator end to mitigate any water tracking towards the Actuator (Figure 8.5).

Ensure the correct end of the cable is threaded through the hole so it matches the Control Box. The Actuator Connection Cable has a 2 pin female end that connects with the 2 pin male extension leading from the Control Box.

Install the remaining two Louvres as described in 'Louvre Installation' (Page 11).

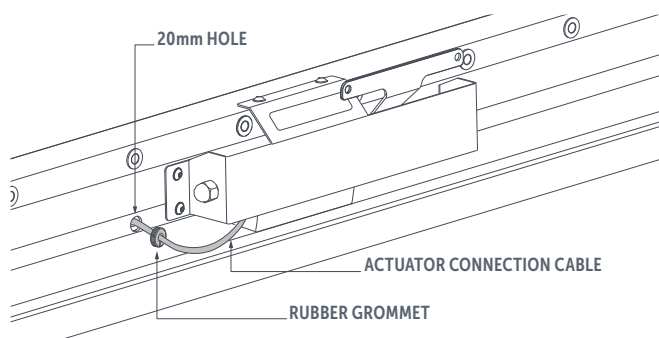


FIGURE 8.5

RH CONFIGURATION

FIGURE 8.3

Installing Actuator

Position the Cover so the top lip hangs over the top of the Mounting Extrusion (Figure 8.4). The lip should be located centrally between the End Cap Bushes.

Screw the top lip of the Cover to the Mounting Extrusion with two Outback Self-Drilling screws. Screw the front face of the Cover to the Mounting Extrusion with four Outback Self-Drilling screws (Figure 8.4).

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Link Rod Preparation

Lay the Link Rods on the ground, taking care not to bend them. The short angle should be facing upwards.

Determine where the Link Rod needs to be cut by counting the number of holes required for the Louvres. Mark and cut the link rod, allowing 20mm past the final hole (Figure 8.6).

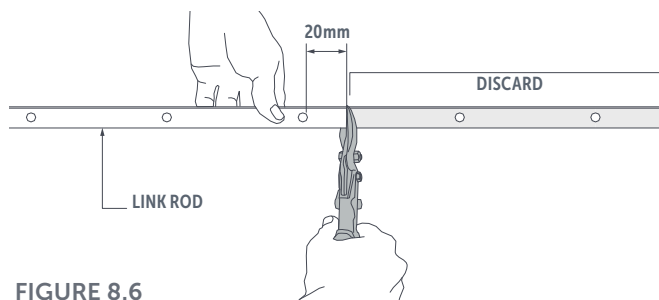


FIGURE 8.6

If the Louvre Bank is longer than 3 meters, additional Link Rods will be required to make up the extra length. The additional Link Rods will need to be joined using a Link Rod Joiner. Make sure to join the Link Rods at the uncut ends.

Use the pre-drilled holes on the Link Rod Joiner as a guide to mark holes on the link rods. Drill out the marked holes in the Link Rod.

Rivet the Link Rod Joiner to the Link Rod, though the four pre-drilled holes on the Joiner (Figure 8.7).

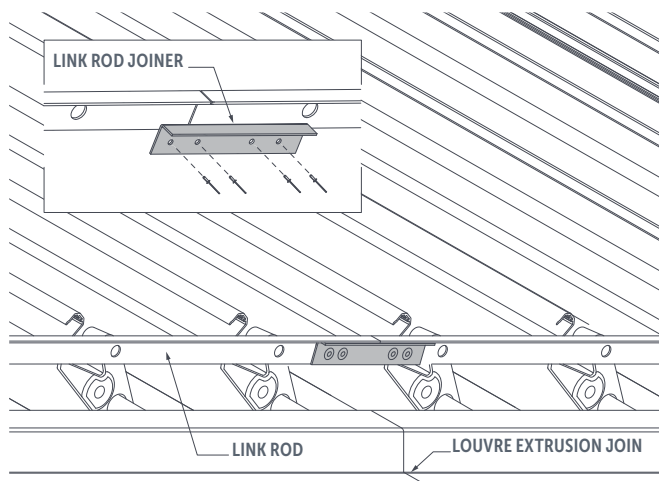


FIGURE 8.7

Link Pin Installation

Connect one Link Rod across each end of the Louvres. Push a Link Pin through the appropriate hole in the Link Rod, and into the End Cap (Figure 8.8).

The Link Pins should push in and snap fit into place. Repeat this process for the remaining Louvres.

Leave two holes without Pins at the Drive Arm location.

If a Link Pin needs to be removed once it has been installed, squeeze the pin's legs together with needle nose pliers and push it towards the Link Rod until it releases.

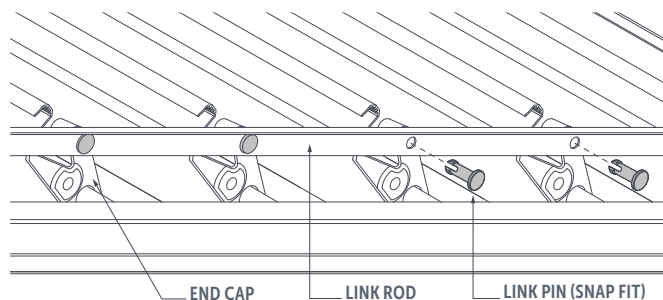


FIGURE 8.8

Connecting Drive Arm to Link Rod

Line the Drive Arm up with the two remaining Link Rod holes. Rotate the first free Louvre so the End Cap hole is also aligned.

Please note that the Actuator may need to be temporarily connected to the Control Box to move the Drive Arm to a suitable position so the holes can be aligned.

Insert a Drive Arm Bush through the Drive Arm and Link Rod, and into the first Louvre End Cap. Similarly, insert another Bush into the back of the End Cap and secure with an M5 6x30 Shoulder Bolt and M5 Lock-Nut (Figure 8.9).

The Shoulder Bolt head should be recessed into the back of the End Cap so that it is not visible. The M5 Lock-Nut will be located on the Drive Arm side.

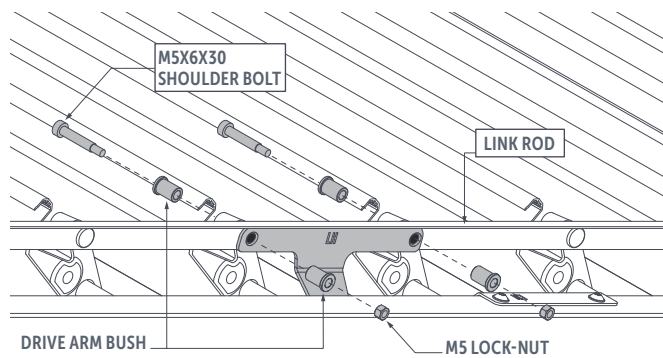


FIGURE 8.9

Adjusting the Closed Louvre Position

Use the Remote Control to drive the Louvres until they are in the closed position by pressing the 'Close' button and allowing the unit to fully close.

! LOUVRES ARE NOT FULLY CLOSED

If the Louvres have not completely closed, the position of the Actuator must be adjusted.

Loosen the M16 nut by one to two rotations, and push the adjustment bolt away from the Actuator through the circular cut-out in the side of the Actuator Cover. Tighten the Dome Nut and use the Remote Control to open and close the Louvres again (Figure 8.10).

Repeat this step until the Louvres are completely closed, without deflecting the Link Rod.

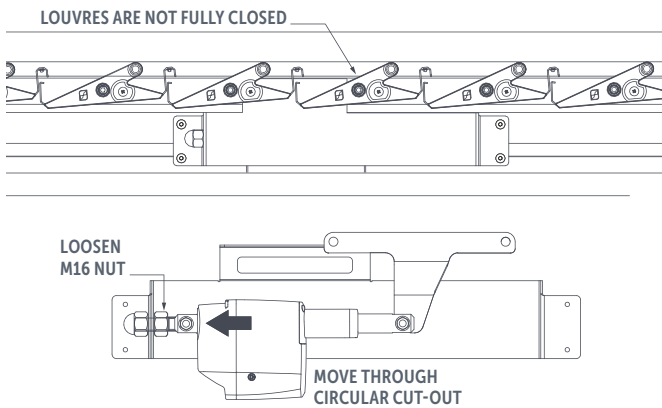


FIGURE 8.10

! LOUVRES ARE CLOSED TOO TIGHTLY

If the Louvres have over closed, the Link Rod can be seen to significantly deflect.

To adjust the position of the Actuator, loosen the M16 Dome Nut by one to two rotations, and push the Adjustment Bolt towards the Actuator, through the circular cut-out in the side of the Cover.

Tighten the M16 Nut and use the Remote Control to open and close the Louvres again (Figure 8.11).

Repeat this step until the Louvres are fully closed, ensuring the Link Rod does not deflect.

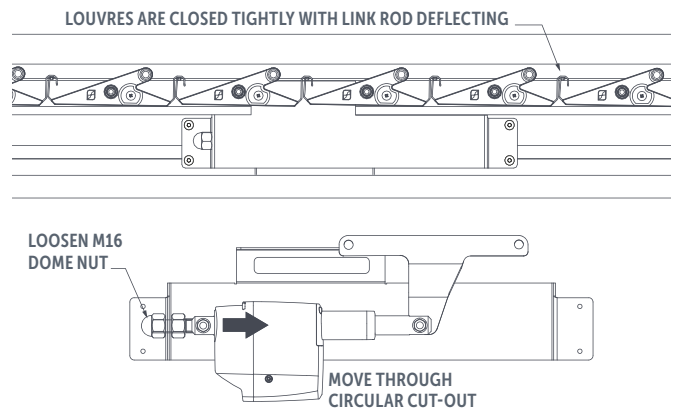


FIGURE 8.11

Barge Flashing Installation

Where Sunroof Banks finish at an End Rafter, a Barge Flashing is required.

Select the appropriate installation section relative to the configuration of the Outback Gable Patio.

NOTES:

Depending on the type of roof decking on the opposing side of the Ridge, the Barge Flashing profile may differ from the profiles shown in Figure 9.0 & Figure 9.1. The installation sequence will remain the same.

For trim detail and where a Sunroof Bank and solid roof deck are found on opposing sides of the Ridge, Refer to the Barge Flashing section (12.3-12.7) of the broader Outback Gable Installation Manual in conjunction with this section.

Barge Trim Installation

Push the Barge Trim so that it locates between the external lip of the Rafter Flashing and the top face of the Rafter (Figure 9.0).

Fix the top of the Barge Trim through the Rafter Flashing using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at 500mm centres (Figure 9.0).

Traditional Barge Installation

Rest the Traditional Barge on top of the rafter flashing so that the vertical face sits parallel with the rafter face (Figure 9.1).

Fix the top of the Barge Flashing through the Rafter Flashing using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at 500mm centres (Figure 9.1).

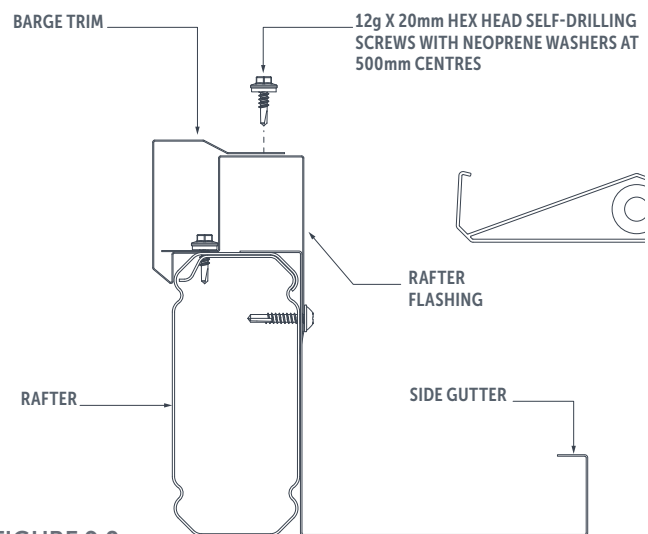


FIGURE 9.0

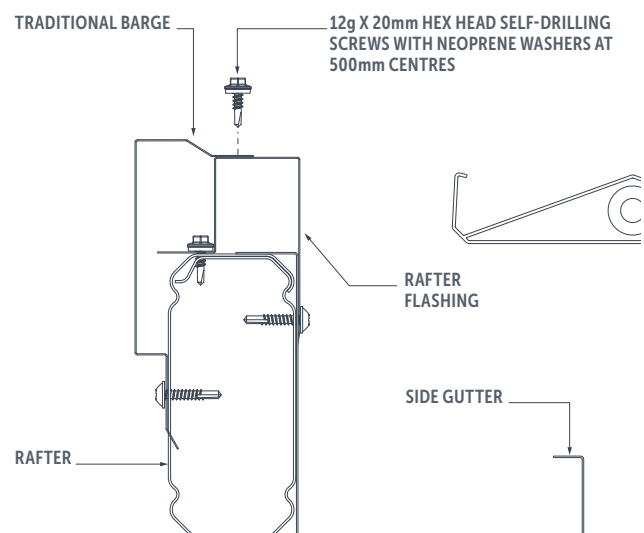


FIGURE 9.1

Outback® Gable Sunroof Installation Manual

Ridge Capping Installation

Select the appropriate installation section relative to the configuration of the Outback Gable Patio.

IMPORTANT NOTE:

Adjacent Ridge Caps should overlap the Louvre Bank Ridge Cap and be turned down and sealed with silicone to prevent water ingress.

Ridge Capping Preparation (Louvre Bank on both sides of Ridge Beam)

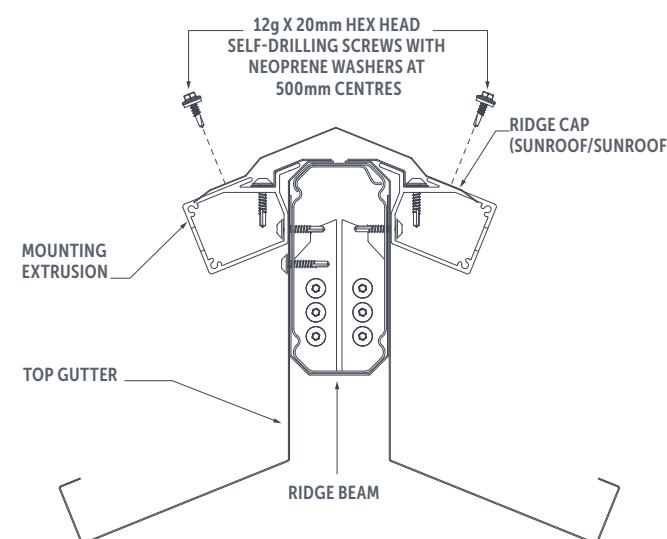
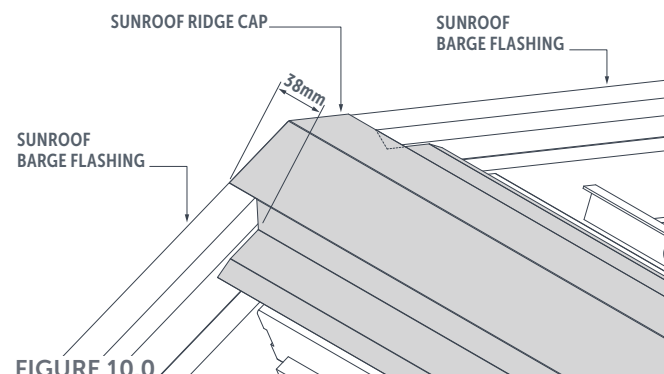
Place the Ridge Cap centrally over the ridge so that it rests flat on either side of the Mounting Extrusion.

Ensure the Ridge Cap is centred at both ends of the Sunroof Bank and runs parallel with the ridge.

Where a Sunroof Ridge Cap terminates at an End Rafter, notch the Ridge Cap to fit over the Barge Flashing and finish flush with the end of the patio (Figure 10.0). Seal joints with silicone to prevent water ingress.

Use a string line to mark out the Ridge Cap fixing locations to ensure the screws are aligned.

Fix the Ridge Cap to the Mounting Extrusion using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at maximum 500mm centres (Figure 10.1).



Ridge Capping Preparation (Louvre Bank on one side of Ridge Beam)

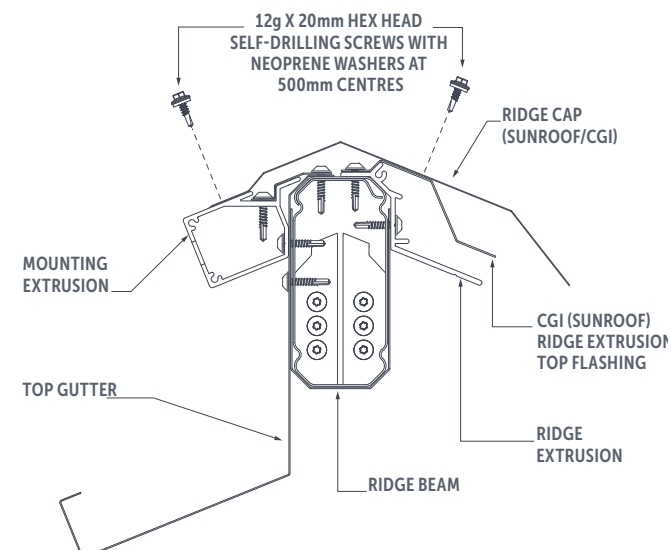
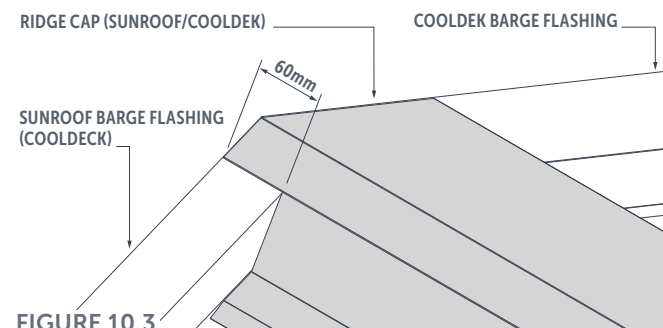
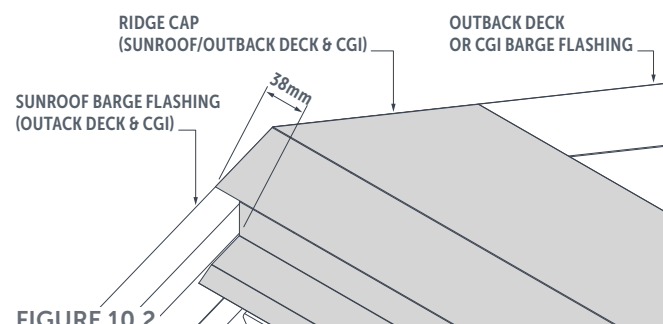
Place the Ridge Cap over the ridge so that the apex is centrally aligned.

Ensure the Ridge Cap is centred at both ends of the Sunroof Bank and runs parallel with the ridge.

Use a string line to mark out the Ridge Cap fixing locations to ensure the screws are aligned.

Where a Ridge Cap terminates at an End Rafter, notch the Ridge Cap to fit over the Barge Flashing and finish flush with the end of the patio (Figure 10.2 or 10.3). Seal joints with silicone to prevent water ingress.

Fix the Ridge Cap to the Mounting Extrusion (Ridge)s using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at maximum 500mm centres (Figure 10.4-10.6).



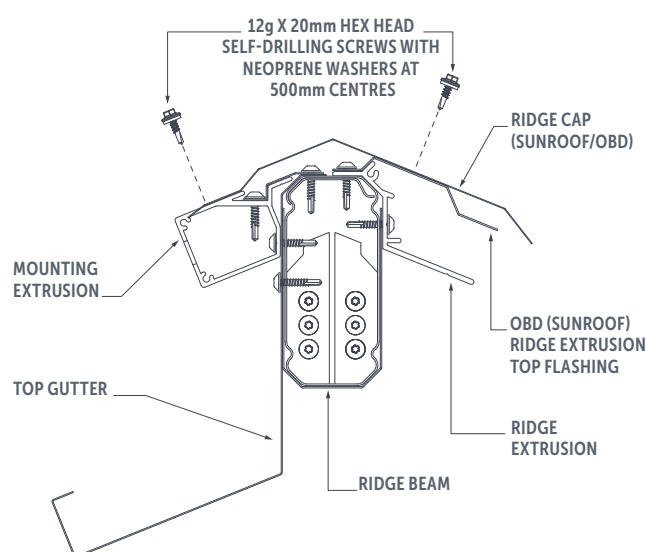


FIGURE 10.5

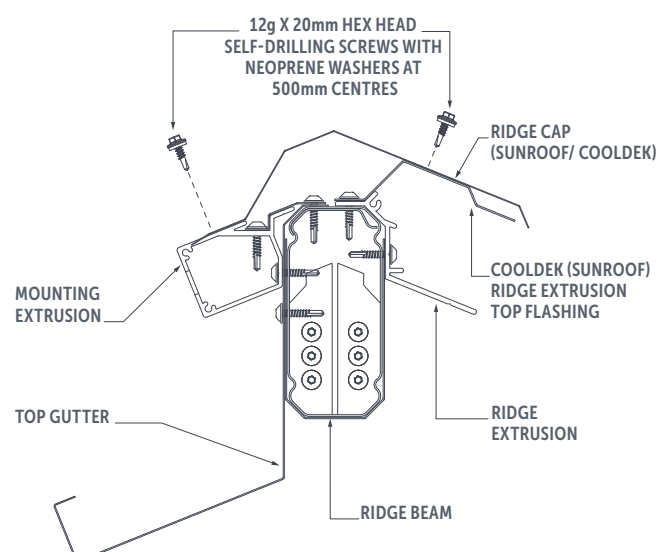


FIGURE 10.6

Louvre Flashing Installation

Link Rod Flashing Installation

Install Link Rod Flashings along the Link Rods at both ends of the Louvres. Fix with rivets at 500mm centres (Figure 11.0).

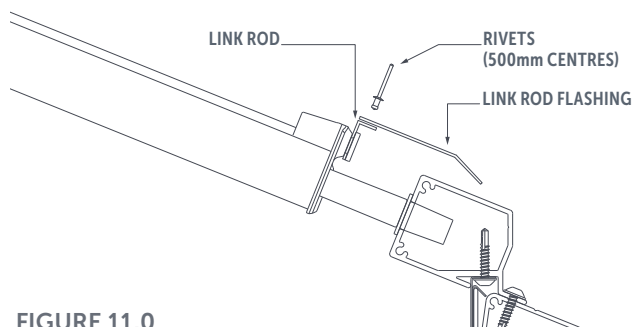


FIGURE 11.0

Closing Up/Closing Down Flashing Installation

At the 'closing-down' end of the Sunroof Bank, a Closing-Down Flashing is fixed to the top of the Rafter Flashing or Side Capping (Figure 11.1).

At the 'closing-up' end of the Sunroof, a Closing-Up Flashing is fixed to the top of the Rafter Flashing or Side Capping (Figure 11.2).

NOTE:

Where a Sunroof Bank ends adjacent to a solid roof type, the respective Closing-Up or Closing-Down Flashing will be mounted atop the Side Capping. The profile may differ from the diagrams. The Installation sequence remains the same.

Position the Closing-Up or Closing-Down flashings between the Top and Bottom Mounting Extrusions with one end butted against the Mounting Extrusion (Ridge).

This should result in a gap at the Bottom allowing any water caught on the flashing to fall into the Bottom Gutter. Fix flashings along the length of each gable rafter using 12g x 20mm Hex Head Self-Drilling Screws with neoprene washers at 500mm centres.

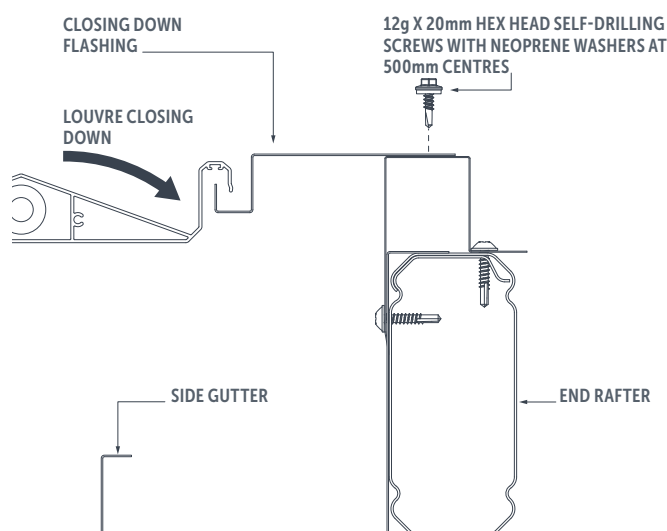


FIGURE 11.1

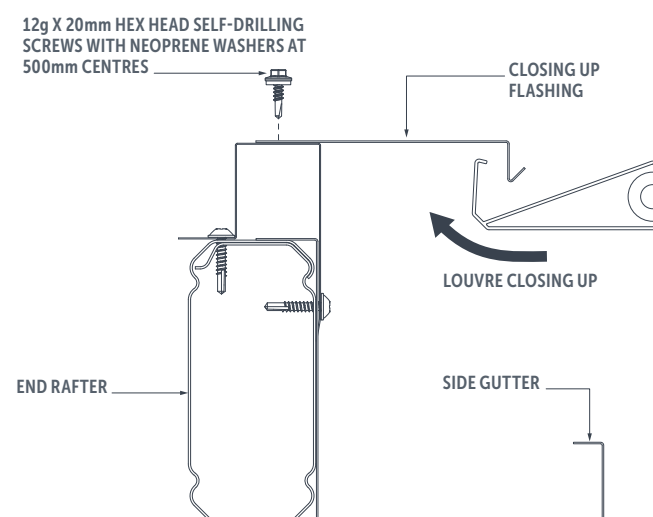


FIGURE 11.2

Outback® Gable Sunroof Installation Manual

Final Fixing

Ensure all of the temporarily removed fixings from the Rafter Brackets, Ridge-to-Rafter Brackets and Ridge Knuckle connections are reinstalled to the correct position. Review 'Re-securing Framework' (Page 6) as required.

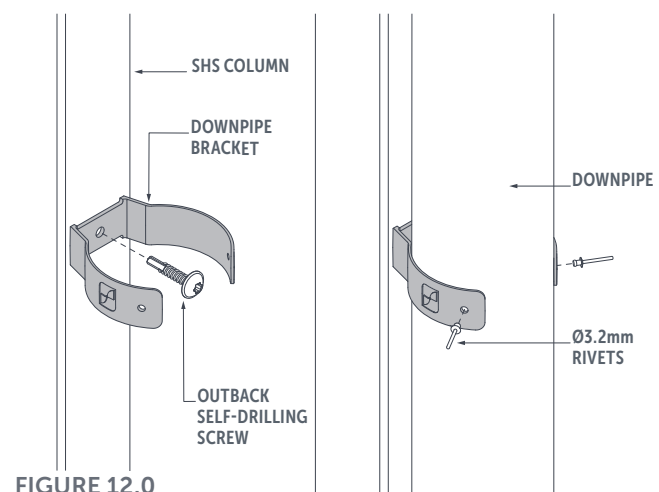
Ensure all gutters are free from swarf and appropriately sealed with silicone to prevent water ingress. This includes any screws or attachment bolts that may be positioned within the gutter water capacity area.

Downpipe Installation

Before attaching the downpipe, fix the downpipe bracket(s) to the Column (Figure 12.0).

NOTES:

The downpipe Bracket shown is for use with round Downpipe. If using a 100x50mm Downpipe, the Installation sequence will remain the same.



Slide the downpipe over the previously installed Downpipe Outlet and rivet into position. If Downpipe Elbow joins are required, connect as required to ensure the Downpipe aligns parallel to the SHS Column.

Rivet the downpipe to the downpipe bracket (Figure 12.0). Weatherproof all fasteners with silicone.

Rain Sensor (Optional)

Select a flat area on the unit or adjacent structure that is open to the weather and does not interfere with the louvre rotation and fix the rain sensor mounting bracket using two appropriate fasteners with Neoprene Washers (Figure 12.1). Run the rain sensor cable back to the control box.

The rain sensor cable will be identified by the use of three pins in the connectors. Use rubber cable grommets within holes in the framework as required.

Plug the cable into the corresponding four pin connection at the end of the control box. Tighten the plastic locking nut. Due to the sensitive nature of the sensor, it is likely that on occasion, small creatures, will inadvertently trigger the sensor.

While the rain sensor is activated, during a rain event, the remote control will not activate the roof. The roof control unit (not the remote control) will emit a sharp 'beep' if the rain sensor is activated and a button is pressed on the remote control.

Once the sensor has returned to normal (rain has cleared) for a minimum of 30 seconds, the rain alarm is cancelled. The roof will not open automatically.

If the Rain Sensor is positioned within the Max 6m length of the Cable, please ensure the excess cable is spread out and not coiled up to prevent any signal interference.

The Sensor is best positioned facing the likely direction of rain and on an angle to allow water run off from the Sensor Pad. Ensure you do not touch the Sensor Pad during installation, to avoid contaminants on your fingers harming the operation of the pad.

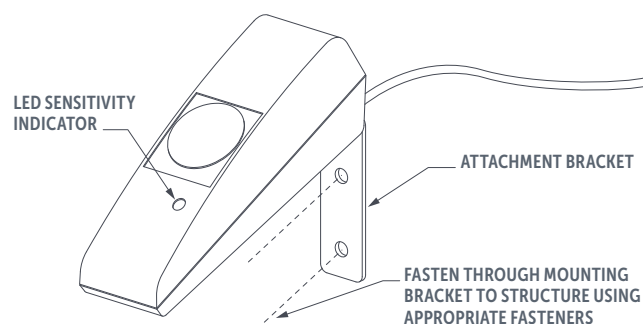


FIGURE 12.1

Ridge Shroud Flashing (Installation Optional)

Install the Shroud Mounting Brackets with even spacing onto the underside of the Ridge Beam between the Top Gutters with two Outback Self-Drilling Screws per bracket. (Figure 12.2).

Pre-drill a $\varnothing 3.5$ hole in the Ridge Shroud at each Shroud Mounting Bracket location. Lift the Ridge Shroud into position and fix using $\varnothing 3.2$ mm rivets (Figure 12.2).

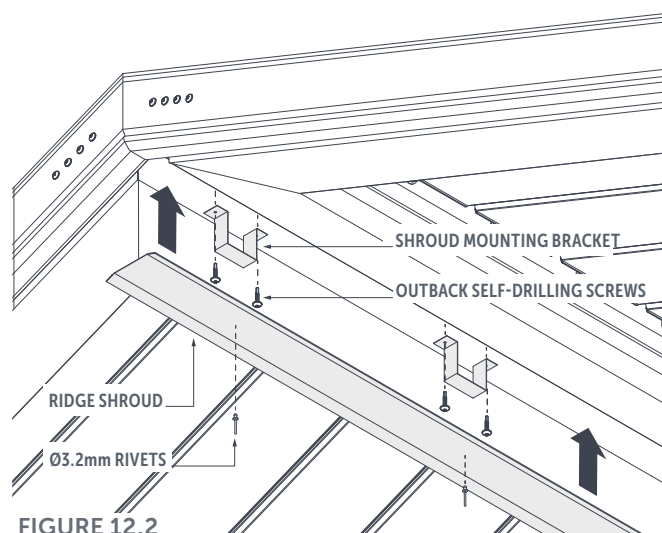


FIGURE 12.2

Appendix

A - Universal Mounting Extrusion Cutting Guide

IMPORTANT NOTES:

Louvre mounting hole positions must be centred between the gutters.

If you measure from one end only, the louvres WILL be misaligned.

Sunroof Banks over 5.85m require two joined Mounting Extrusions. Determine the Final Cut Length (FCL) as normal. The half-holes at each Mounting Extrusion end butt together to form a full hole and maintain 195mm spacing between hole centres. Treat the joined Mounting Extrusions as one continuous length for cut calculations and cutting.

DIMENSIONS:

Louvre spacing = 195mm (fixed)

Extrusion fitment tolerance = 5mm (Per Bank)

METHOD

1) Measure Between Gutters:

Measure the clear distance between the inside face to the inside face of the two Sunroof gutters (Figure A1).

Check this distance is the same at the ridge and the side beam.

Inside face to inside face of Sunroof Gutters (SG).

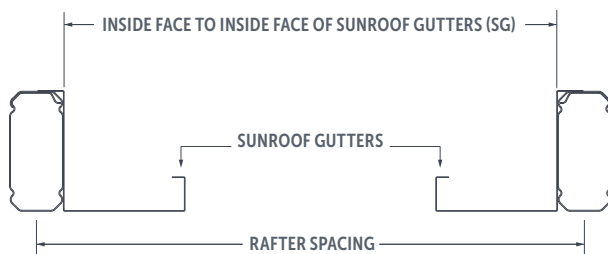


FIGURE A1

2) Apply Tolerance: (DO THIS ONCE)

Take 5mm off your measurement.

$$\text{Final Cut Length (FCL)} = \text{SG} - 5\text{mm}$$

This is the length used for all remaining steps.

3) Confirm Louvre Count of Sunroof Bank:

Check the drawing/job sheet.

$$\text{Number of louvres} = N$$

4) Calculate the quantity of Louvre Spaces (LS):

Louvres are always 195mm apart (centre to centre).

$$\text{Louvre Spaces (LS)} = N - 1$$

5) Calculate to Total Coverage (TC)

$$\text{Total Coverage (TC)} = \text{LS} \times 195$$

6) Calculate the Total End Allowance (TEA)

$$\text{FCL} - \text{TC} = \text{Total End Allowance (TEA)}$$

7) Calculate the End Distance:

$$\text{End Distance} = \text{TEA} / 2$$

This value may be greater than 195mm. In these instances, each end of the Mounting Extrusion(s) will include one unusable mounting hole.

This distance is measured from the centre of the first usable mounting hole to each end of the extrusion (Figure A2).

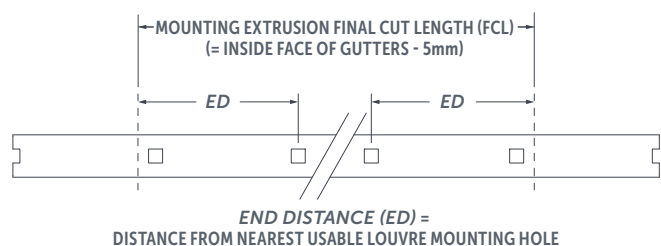


FIGURE A2

IMPORTANT NOTE:

The End Distance (ED) must be equal on both ends.

SITE CHECKS (READ BEFORE CUTTING)

- Did you subtract the 5mm relief first?
- Are both ends the same length from the nearest usable Louvre Mounting Hole?
- Does the hole pattern sit centred between the gutters?

8) Cut the Mounting Extrusion:

Cut to the Final Cut Length (FCL)

Take material off both ends equally (Figure A3).



FIGURE A3

WORKED EXAMPLE

1) Measured between gutters (A): **2080mm**

2) Apply Tolerance: $2080 - 5 = \mathbf{2075\text{mm}}$ (Final Cut Length)

3) Number of louvres (N): **10**

4) Louvre Spaces (LS): $N - 1 = \mathbf{9}$

5) Total Coverage (TC): $9 \times 195 = \mathbf{1755\text{mm}}$

6) Total End Allowance (TEA): $2075 - 1755 = \mathbf{320\text{mm}}$

7) End Distance: $320 \div 2 = \mathbf{160\text{mm}}$

RESULT:

Extrusion cut to **2075mm**.

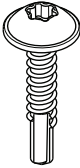
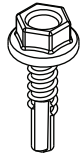
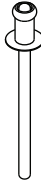
160mm from first usable **hole centre** to **each end**.

Louvres stay **centred** between gutters.

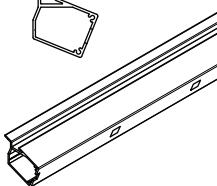
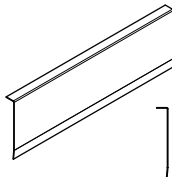
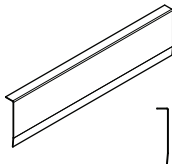
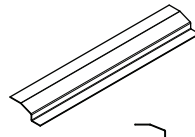
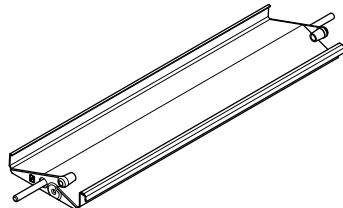
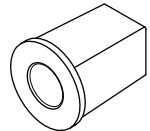
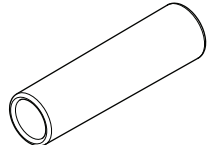
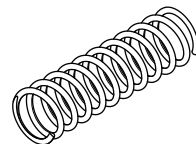
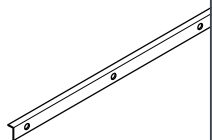
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Component Index

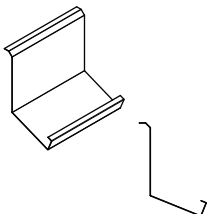
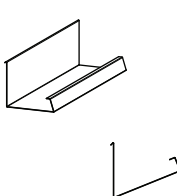
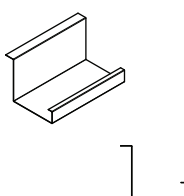
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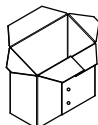
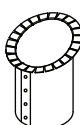
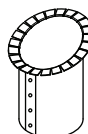
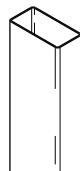
				
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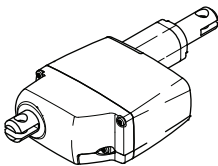
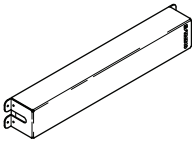
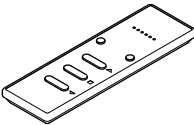
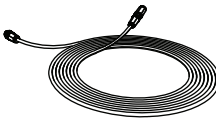
 				
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LOUVRE BLADE ASSEMBLY OBAL##, OALELF##, OALERF##, OAFS	MOUNTING BUSH OLEB	SPACER OLSP##	SPRING OLCS	
				
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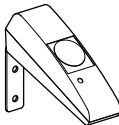
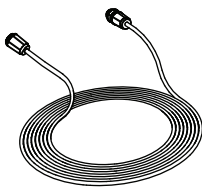
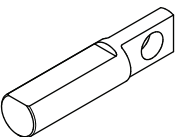
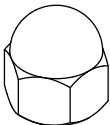
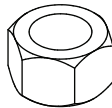
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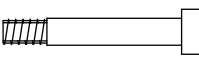
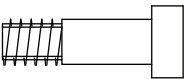
		
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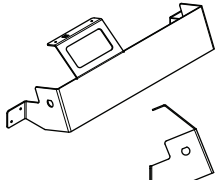
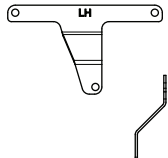
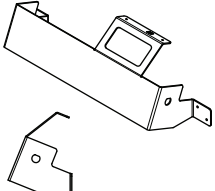
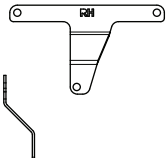
				
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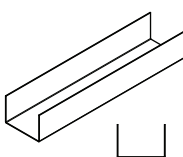
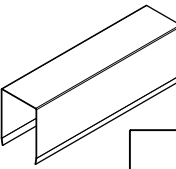
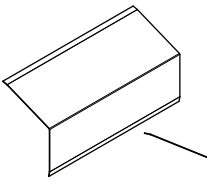
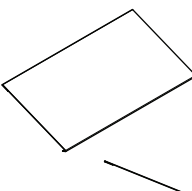
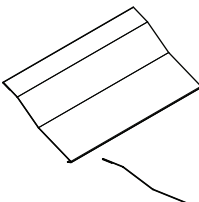
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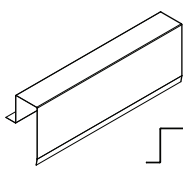
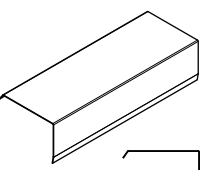
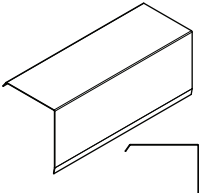
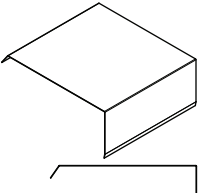
				
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M5 SHOULDER BOLT OLBS630SS	M8 SHOULDER BOLT OLBS1020SS	M8 WASHER OLNW8SS	M8 LOCK NUT OLNN8SS	M5 LOCK NUT OLNN8SS

			
SUNROOF MOTOR COVER (LEFT PULL) GSMCLPUSE2##	SUNROOF DRIVE ARM (LEFT PULL) GSDALPUSE2##	SUNROOF MOTOR COVER (RIGHT PULL) GSMCRPUSE2##	SUNROOF DRIVE ARM (RIGHT PULL) GSDARPUSE2##

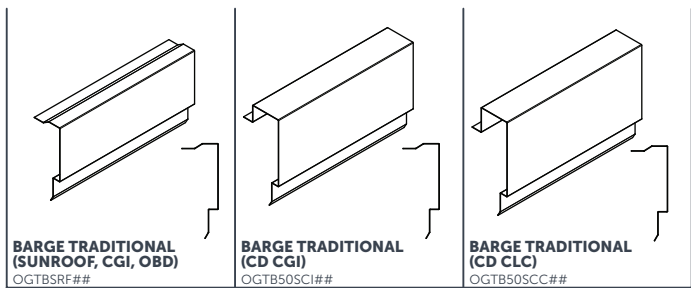
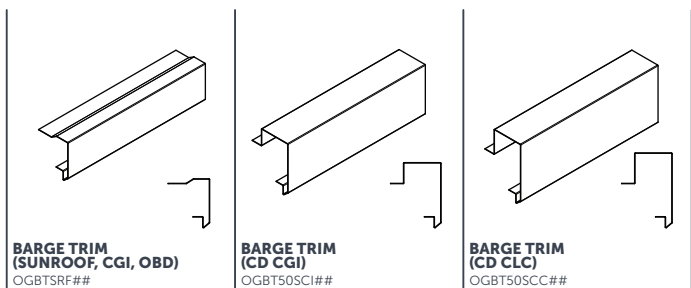
				
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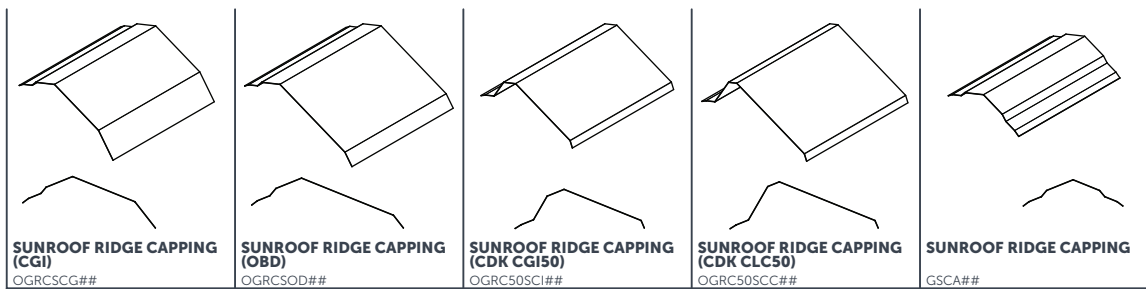
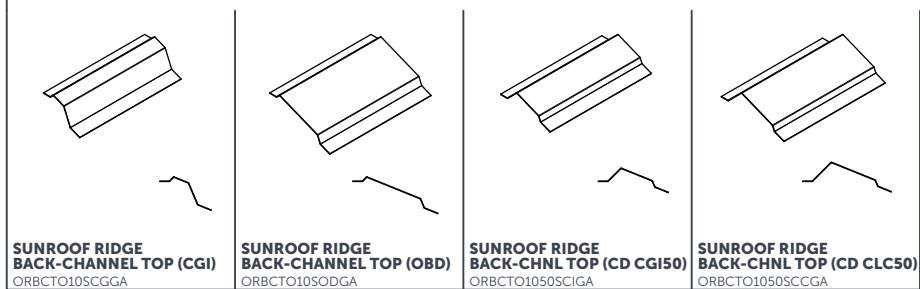
COVER FLASHINGS

Outback® Gable Sunroof Installation Manual

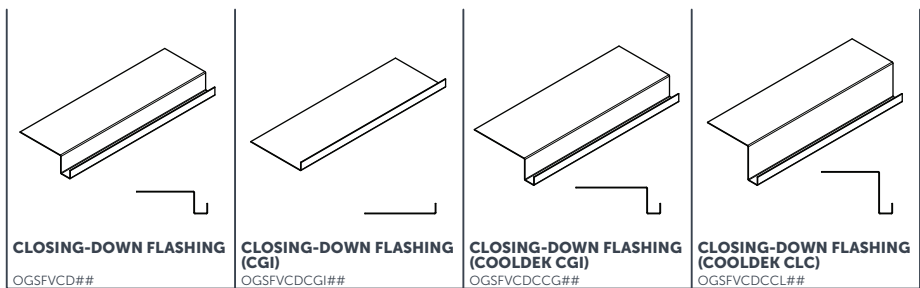
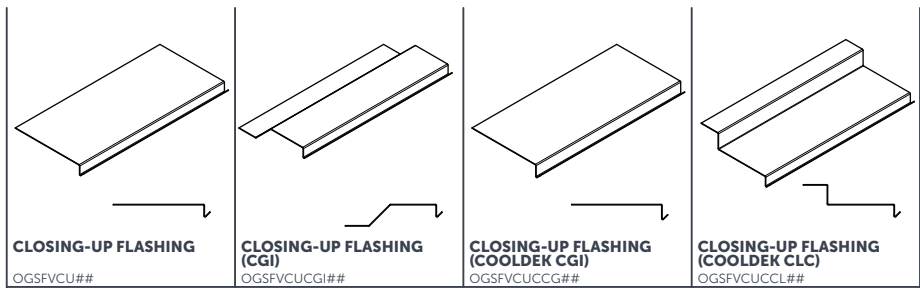
BARGE FLASHINGS

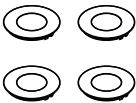
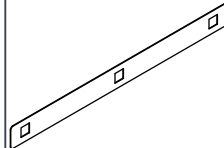
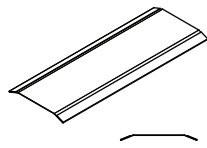
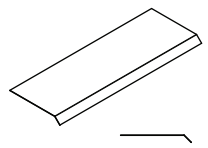


RIDGE FLASHINGS



VARIABLE FLASHINGS



LIGHTING				
 LOUVRE LED LIGHT KIT (4x 5W) LLLK4LI	 LOUVRE LED LIGHT KIT (2x 5W) LLLK2LI	 CEILING LIGHT EXTENSION CABLE (6m) OBLE6000	 CEILING LIGHT EXTENSION CABLE (3m) OBLE3000	 CEILING LIGHT EXTENSION CABLE (1m) OBLE1000
OTHER				
 MOUNTING EXTRUSION TEMPLATE GSMT	 SUNROOF RIDGE SHROUD FLASHING SRSS##	 SUNROOF RIDGE SHROUD SUPPORT GSSS##	 LINK ROD FLASHING OLLF##	

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Troubleshooting

PROBLEM	CHECK	POSSIBLE CAUSE	REMEDY
The louvres will not move when the "OPEN" or "CLOSE" buttons on the remote control are pressed.	The red LED light on the remote control unit should illuminate when any of the buttons are pressed.	Flat battery in remote control unit.	Replace battery in the remote control unit with new CR3032.
		Faulty remote control unit.	Replace the entire controller assembly and remote control unit.
	Switch the power off, wait a few seconds and then switch the power back on. The controller assembly should emit an audible beep when the power is turned on.	No power at 240V ac power outlet.	Check that the 240V ac power cord to the controller assembly is plugged in and the power outlet is switched on.
			Check fuse/circuit breaker in switchboard.
			Use another appliance to test for power at the power outlet.
			Call an electrician if power is still not available at the power outlet.
		Faulty 24V dc power supply or controller assembly.	Replace the entire controller assembly and remote control unit if power is available at the power outlet and beep is not heard.
	Press the "OPEN" and then "CLOSE" buttons on the remote control unit. The controller assembly should emit audible clicks when the buttons are pressed one after another.	Wrong bank of louvres selected on the remote control unit (multiple bank patios only).	Press the left or right "SELECT" buttons until the correct channel is illuminated.
		Faulty 24V dc power supply or controller assembly.	Replace the entire controller assembly and remote control unit if power is available at the power outlet but clicking is not heard.
	If the louvres are fully closed, press the "OPEN" button on the remote control unit. The controller assembly should emit an audible beep if the rain sensor has been triggered.	Water or contaminants on the rain sensor.	Wait until the rain stops and the sensor dries off or if contaminated, carefully clean the rain sensor with a damp cloth and dry off.
		Faulty rain sensor.	Replace rain sensor.
	Plug the actuator directly into the controller assembly to check if the extension cables or actuator are faulty.	Faulty connection.	Check that the connections between the actuator, extension cable and controller assembly are secure if the actuator functions correctly when plugged directly into the controller assembly.
		Faulty or broken extension cables.	Remove and replace the extension cable if the actuator functions correctly when plugged directly into the controller assembly.
		Faulty actuator.	Replace the actuator, if it does not function correctly when plugged directly into the controller assembly, .
	Disconnect the link rod from the louvres and check that each louvre rotates freely.	Louvres not square to beam, interference between components.	Square up beams or replace components as required.

PROBLEM	CHECK	POSSIBLE CAUSE	REMEDY
The louvres open automatically when the rain sensor is triggered.	The actuator should move in the same direction when the "CLOSE" button is pressed and when the rain sensor is triggered.	The controller assembly is faulty if the actuator moves in different directions when the "CLOSE" button is pressed and when the rain sensor is triggered.	Replace the entire controller assembly and remote control unit.
		If the actuator moves in same direction when the "CLOSE" button is pressed and when the rain sensor is triggered.	Refer to the remedies for louvres moving in the wrong direction
The louvres will not close automatically when the rain sensor is triggered.	Hold the "STOP" button down for 10 seconds. The controller assembly emits two beeps when the rain sensor is manually turned off and a long continuous beep when the rain sensor is turned back on.	The remote control unit has been used to manually turn off the rain sensor.	Hold the "STOP" button down for 10 seconds. The controller assembly will emit a long continuous beep when the rain sensor is turned back on.
	Plug the rain sensor directly into the controller assembly to check if the extension cables or rain sensor are faulty.	Faulty connection.	Check that the connections between the rain sensor, extension cable and controller assembly are secure if the rain sensor functions correctly when plugged directly into the controller assembly.
		Faulty or broken extension cables.	Remove and replace the extension cable if the rain sensor functions correctly when plugged directly into the controller assembly.
		Faulty rain sensor.	Replace the rain sensor if it does not function correctly when plugged directly into the controller assembly, .
		Faulty controller assembly.	Replace the entire controller assembly and remote control unit if another rain sensor does not function correctly when plugged directly into the controller assembly.
Actuator assembly is the opposite 'Type' (A or B) required for Louvre opening direction. 'OPEN' closes louvres; 'CLOSE' opens louvres.	Original design plans for designated Actuator assembly placement and Louvre opening direction	Louvres have been installed to open in the opposite direction to the original unit design.	Contact Stratco to advise in reversing the Remote Control operations within the Control Box.
		The Actuator assembly has been placed on the opposing side to the original unit design designation.	
The louvres move in the wrong direction when the "OPEN" or "CLOSE" buttons on the remote control are pressed.	The actuator should retract when the "OPEN" button is pressed and extend when the "CLOSE" button is pressed.	Cable connector plugged in backwards.	Check that the rib inside the connector with pins is aligned with the groove on the connector with sockets.
		Mechanism installed incorrectly.	Check that the mechanism is installed as per the Installation Manual.
		Actuator, extension cable or controller assembly wired incorrectly.	Remove cover from controller, disconnect red and black actuator cables from terminals labelled OPEN and CLOSE, swap them over and reconnect them in the terminal block.

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.

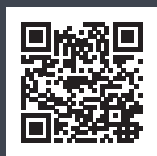
Washing with clean water must be frequent enough to prevent the accumulation of dust, salts, and pollutants that may reduce the life of the product.

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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How To.

