

MULTISPAN GABLE ATTACHED PATIO

STRATCO OUTBACK® ASSEMBLY INSTRUCTIONS

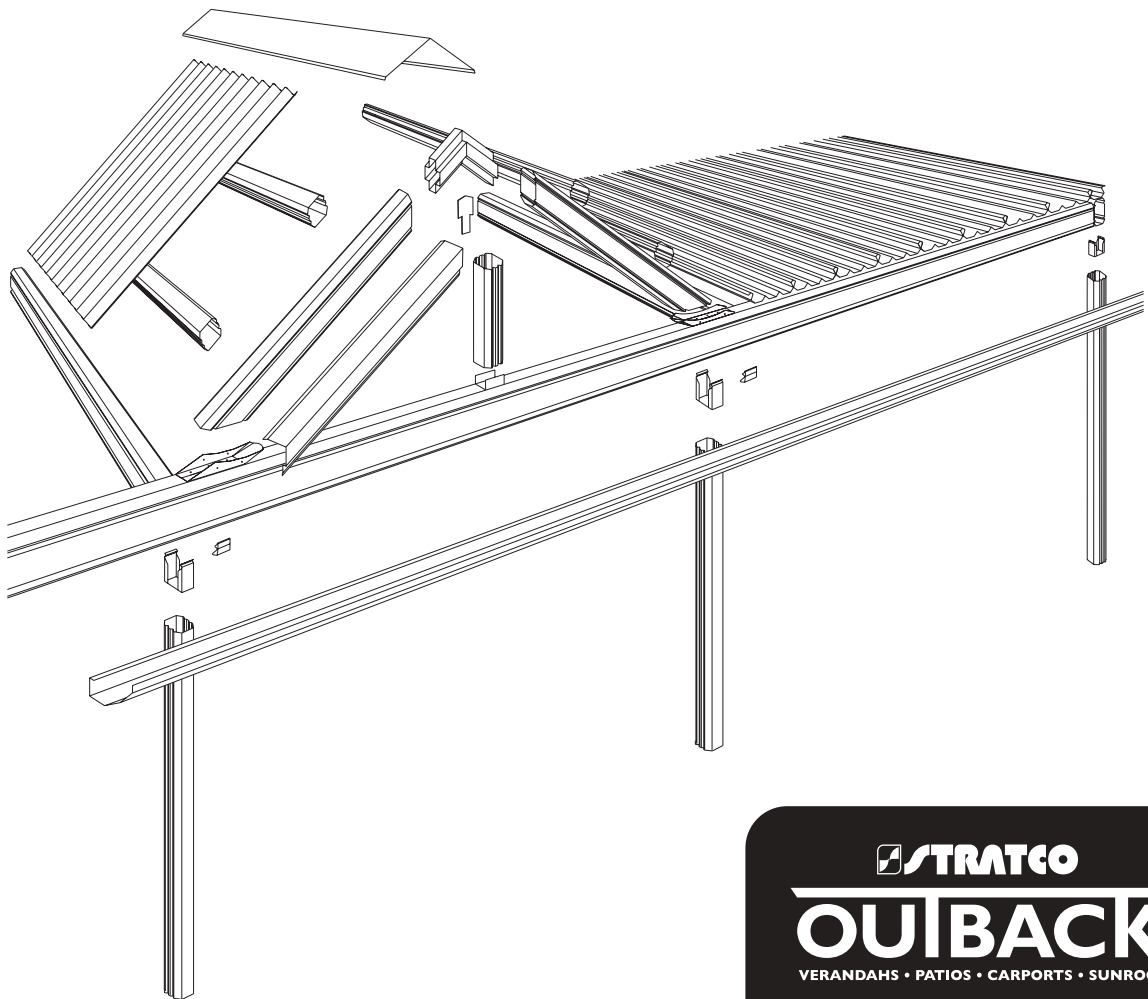
Your supplementary guide to building an ATTACHED MULTISPAN GABLE VERANDAHS or PATIO



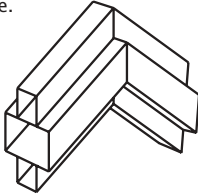
This set of instructions should be used in conjunction with the Stratco installation guide, 'Outback® Flat Attached Verandahs, Patios & Carports'.

BEFORE YOU START

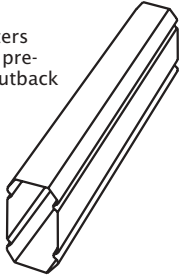
Carefully read these instructions, along with the Stratco Outback Flat Attached Installation Guide. If you do not have all the necessary tools or information, contact Stratco for advice. Before starting lay out all components and check them against the delivery docket. The parts description identifies additional gable parts, and the component layout diagram indicates their fastening position.



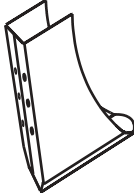
RIDGE KNUCKLE
Slots inside the gable rafters to form connection at the ridge.



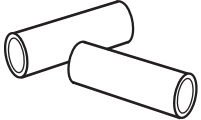
RAFTERS
Gable Rafters consist of pre-cut 120 Outback beam.



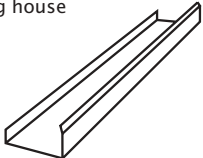
RAFTER TO VALLEY BRACKET
This bracket fastens the rafter to the valley beam.



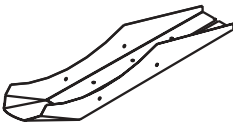
SPACERS
Are used to prevent the 150 attachment beam from crushing.



SOAKER FLASHING
The soaker flashing waterproofs the rear of the gable and conceals the existing house gutter.




22° or 30° END RAFTER BRACKET
Connects rafters to header beam on an infill gable.

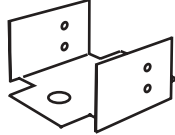


END STRUT
The gable infill is supported by the end strut, which consists of a section of post.

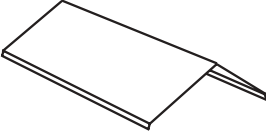
22° or 30° END STRUT PLATE
Secures the end strut at the ridge.



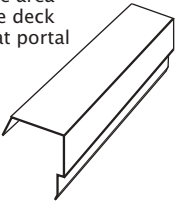
HEADER BEAM BRACKET
Connects end strut to header beam on an infill gable.



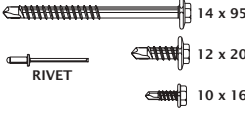
RIDGE CAP
This flashing covers the roof sheets at the gable ridge.



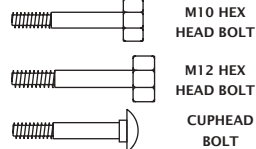
BARGE CAP
The barge cap covers the area where the deck finishes at portal frame.



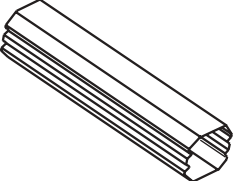
SCREWS AND RIVETS
Fastener types vary depending upon the connection, ensure correct fixings are used.



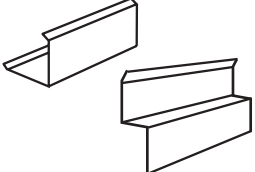
BOLTS
Fastener types vary depending upon the connection, ensure correct fixings are used.



PURLINS
Purlins provide support for cladding.




HEADER FLASHINGS
Run along header beam to neatly finish the base of infill panels.



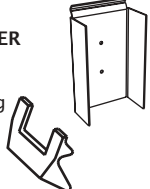
POST BRACKET
Connects post to beam.

POST CAP
Fills gap between post and beam.

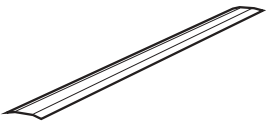


BEAM TO BEAM BRACKET
Connects horizontal beams.

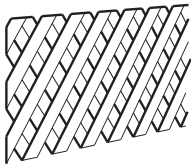
BEAM FILLER
Fills gap between intersecting beams.




PANEL STRIPS
Decorative strips fixed to infill panels.



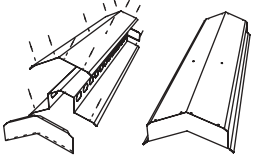
INFILL PANEL
Cut to suit gable end frames.



FINIAL
Provides decoration at the apex of the gable end frame.

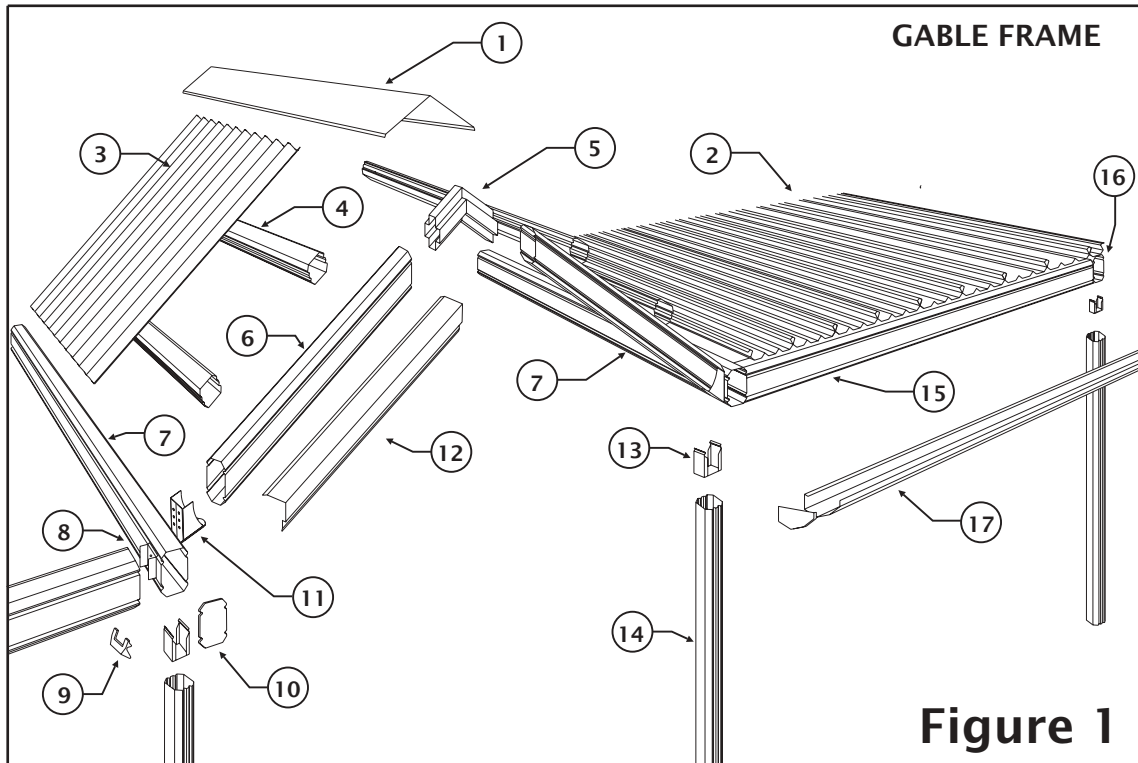


VENTRIDGE
Covers the roof sheets at the gable ridge while still allowing air to circulate.




ADDITIONAL MATERIALS

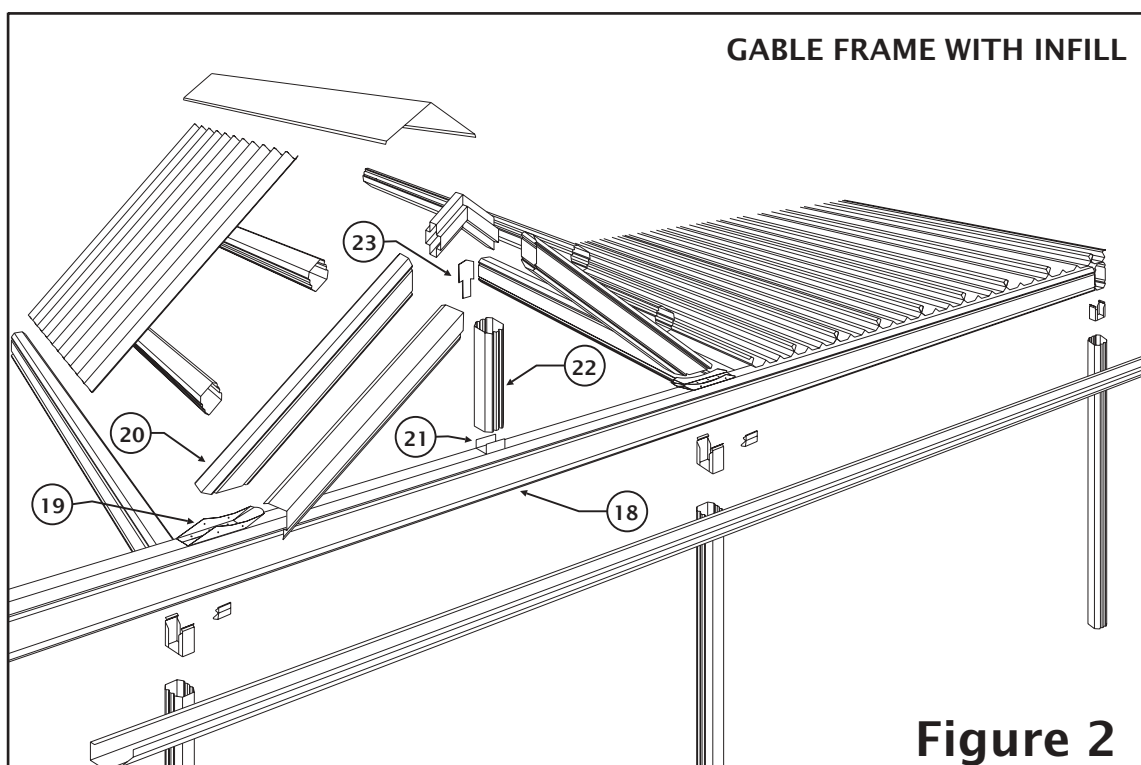
Please note that the Stratco Outback kit does not include any brackets or fixings to attach the unit to the existing structure, or concrete/masonry anchors for column installation. Other items not included in the standard kit are infill panels and accessories, finials, box gutters, cover flashings, gable ventridge and concrete.



- ① Ridge Cap
- ② Outback Deck
- ③ Polycarbonate Sheet, Outback Deck or CGI
- ④ Purlin
- ⑤ Ridge Knuckle
- ⑥ Rafter
- ⑦ Valley Beam
- ⑧ Beam to Beam Bracket
- ⑨ Notched Beam Filler
- ⑩ Beam End Cap
- ⑪ Rafter to Valley Bracket
- ⑫ Barge Cap
- ⑬ Post Bracket
- ⑭ Post
- ⑮ Front Fascia Beam
- ⑯ End Fascia Beam
- ⑰ Gutter and Gutter Stop End

INFILL GABLE

- ⑱ Header Beam
- ⑲ 22° or 30° End Rafter Bracket
- ⑳ Rafter
- ㉑ Header Beam Bracket
- ㉒ End Strut
- ㉓ End Strut Plate



1.0 INTRODUCTION

Please read these assembly instructions thoroughly before commencing the construction. Double check all dimensions, levels and bolting locations before cutting, screwing or bolting structural members. It is recommended that the persons erecting the structure have had some previous building experience because some modifications to the existing house structure are required.

2.0 ATTACHING TO AN EXISTING STRUCTURE

The builder is to ensure the existing house/structure is of a suitable structural integrity and complies with all the relevant Australian Building codes and standards. For more information regarding the suitability of the house structure to accommodate the Stratco Attached Multispan Gable, consult a structural engineer or a building authority. It is the builders responsibility to ensure that the existing house roof structure is strengthened correctly.

Refer to Section 2.1 if attaching Multispan Gable on it's side to a house, Section 2.2 if attaching on it's end to a house or refer to both Sections if attaching the gable on it's side and end.

2.1 ATTACHING ON SIDE TO HOUSE

A Stratco Multispan attached on it's side to a house is attached to the existing eaves overhang at the fascia or to an existing wall if height permits.

The first objective in the construction is to fix a structural side beam along the fascia or wall, to which the Gable Unit is attached. Most existing houses have not been designed for the attachment of portal framed gables to their side, therefore additional strengthening of the house rafters must be performed.

In order to strengthen the existing house rafters, the roof tiles or roof sheets need to be lifted, to expose the roof frame. Steel rafter brackets and channels are then bolted along the house rafters. Refer to Section 2.1.1.

A 150mm Outback beam is bolted to the strengthening brackets at the fascia. Once the 150 attachment beam is secured to the house, the Gable Unit can be erected and fastened to the beam.

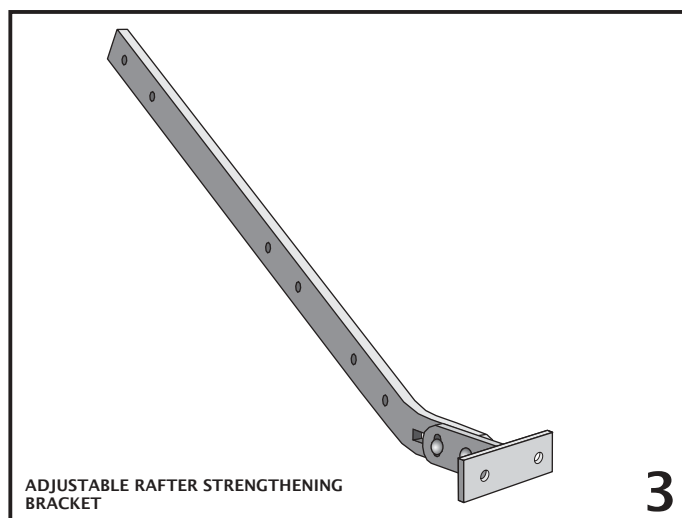
2.1.1 RAFTER STRENGTHENING

The first step is to determine the number of rafters which need to be strengthened and their location relative to the unit. You will have to lift some roof tiles or roof sheets to discover the rafter positions and spacings. The number of rafters which need to be strengthened is determined by the builder, however, spacing is recommended not to exceed 1200mm.

Note: It is the builders responsibility to ensure the existing rafters and fascia are adequately reinforced and strengthened to accommodate any additional attached structure. The reinforcing method must be approved by the appropriate council or engineer.

It is recommended an adjustable rafter strengthening bracket is used in conjunction with an extension channel, as shown in Figure 4.

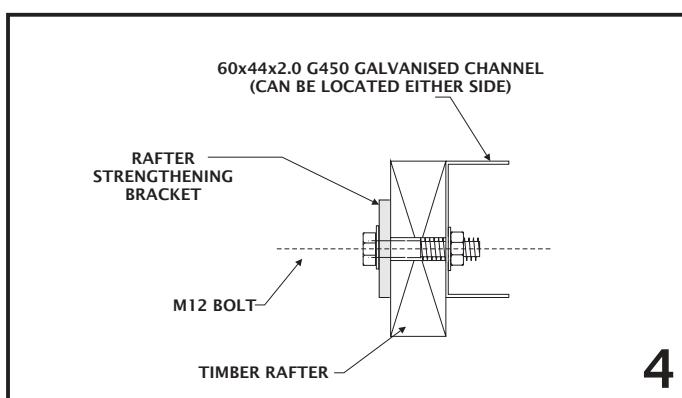
The adjustable rafter strengthening bracket is shown in Figure 3. Please note that this bracket may not be suitable for applications where the front face of the house gutter is higher than 120 mm. In these cases please contact Stratco for alternative solutions.



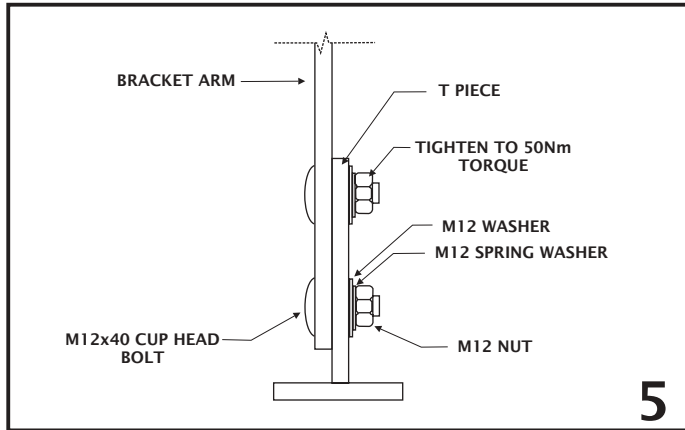
Fixing Rafter Strengthening Brackets and Channels

The adjustable rafter strengthening bracket allows for an adjustment of pitch in the range of 15 to 30 degrees. The distance the bracket extends past the fascia is also adjustable to allow for standard gutters (minimum extension) or box gutters with a width of up to 200mm.

In conjunction with rafter strengthening brackets, a channel is fixed to the side of the house rafter (Figure 4). The bottom end of the channel will be located at the base of the house rafter. Holes should be marked and pre-drilled in the channel to suit the location of existing holes in the bracket. The channel will extend beyond the bracket so additional holes are to be drilled in the channel at approximately 500mm centres.



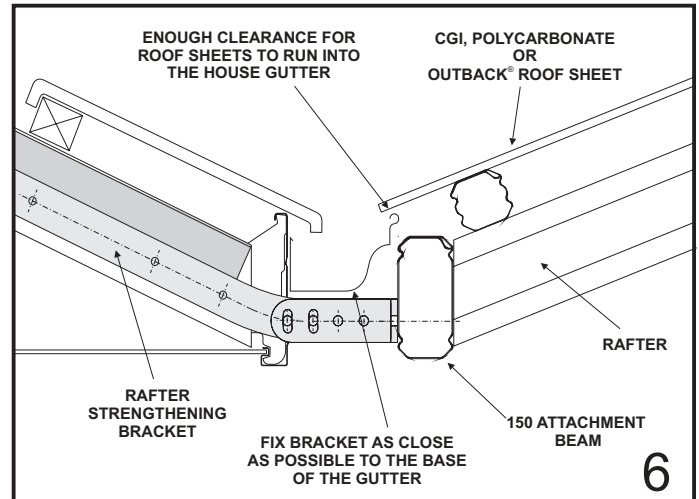
Initially the bracket T piece shall be fixed to the bracket arm with two M12 cup head bolts (hand tighten only), a spring washer is to be located between the standard M12 washer and nut (Figure 5). Mark the position of the bracket on the fascia and notch a rectangular hole in the fascia allowing the bracket to be fed through the front of the fascia. The hole may need to be enlarged slightly if the M12 cup head bolts interfere with the fascia.



Insert the bracket through the fascia and fix with the channel to the house rafter using M12 hex head bolts through the existing holes in the bracket and further up the channel (Figure 7). Adjust the T piece so it is horizontal and has the appropriate extension past the fascia to allow for fixing of the attachment beam. T piece connection bolts are to be tightened to a minimum 50Nm torque.

Fix the bracket as close to the base of the gutter as possible (recommended minimum distance 10mm from lowest end of gutter), as shown in Figure 6.

The 150 attachment beam is to be fixed to the end plate to ensure the carport roof sheets drain into the existing house gutter (Figure 6).



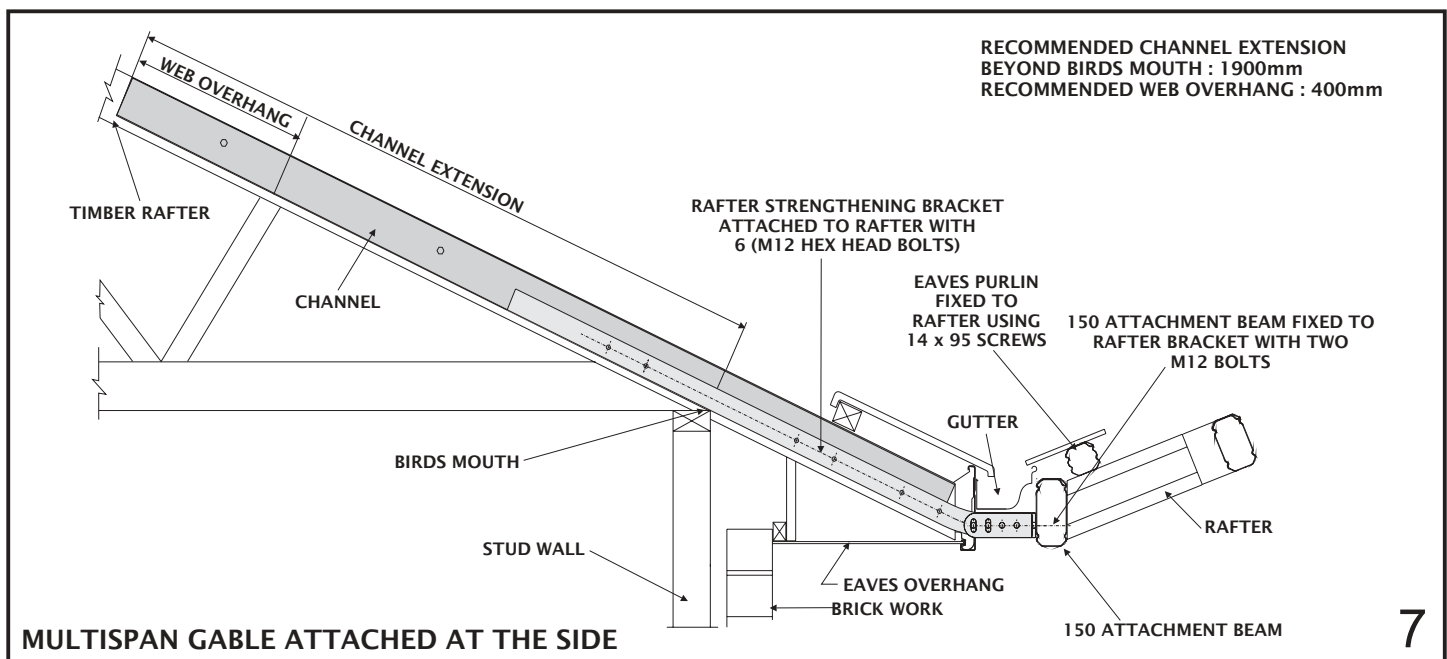
Fixing the 150 Attachment Beam in Place

After fixing all the brackets and channels, the 150 attachment beam is fixed in place.

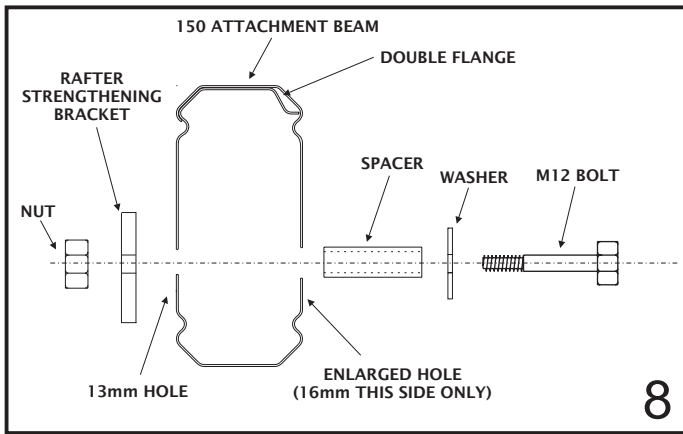
Prop up the 150 attachment beam in position with the double flange on top, the beam will need to be located at a height on the bracket which allows clearance between the gable roof sheets and the gutter. Fix to the end plates of the rafter bracket using two M12 bolts, with the bolt head on the 150 attachment beam side. Insert spacers to prevent the beam from crushing, and bolt in position, using nuts and washers (only use washers to the outside face of the beam).

Note: Do not over tighten bolts as this can lead to a visible indentation due to the high gloss nature of the material. Refer to Figure 8 for fixing spacers.

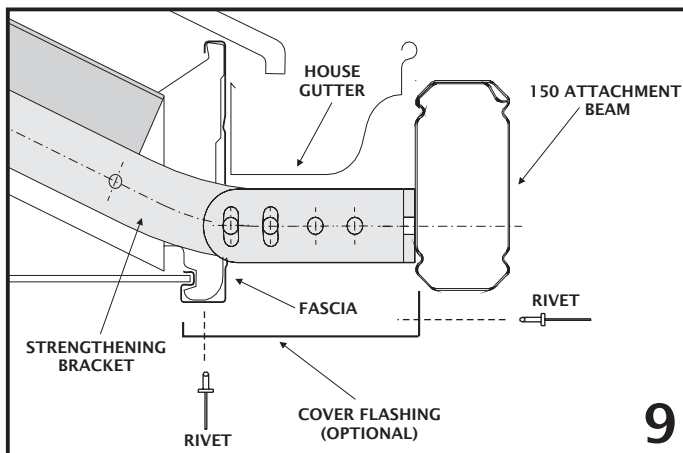
To insert spacers drill 13mm holes through the 150 attachment beam. Then drill 16mm holes on the outside face only, ie, this time do not drill all the way through. This will allow the spacer to slide in from the outside and stop at the other side as shown in Figure 8.



The 150 attachment beam becomes the base for the attachment of the Multispan gable unit. Figure 7 shows a unit attached at the side.



A cover flashing may be ordered as an additional option and custom made to cover the exposed brackets and holes through the fascia. Rivet flashing in place, Figure 9 suggests a simplified flashing, however you may decide to use your imagination and design a flashing that suits your individual taste.



Note: It is the builders responsibility to ensure the existing rafters and fascia are adequately reinforced and tied down to accommodate any additional attached structure loads.

2.2 ATTACHING ON END TO HOUSE

If fixing a Multispan Gable on its end to a wall, two alternatives are available. Purlins are fixed directly to the wall using 68mm wall brackets and valley beams using beam to wall brackets. This option will not require a rear gable frame and back channel is fixed to the wall to accommodate sheets running along the wall. The other alternative requires valley beams be fixed to the wall and a rear gable frame installed for fixing purlins. The rear gable frame will need to be slightly offset from the wall to allow the appropriate bracket fixing.

If fixing a Multispan Gable on its end with suspension brackets to a fascia (Figure 10), typically a soaker flashing is used. In this case the gable rafter at the rear of the unit is to be set back sufficiently from the house fascia to accommodate the house gutter and infill panel (refer Figures 20 and 21).

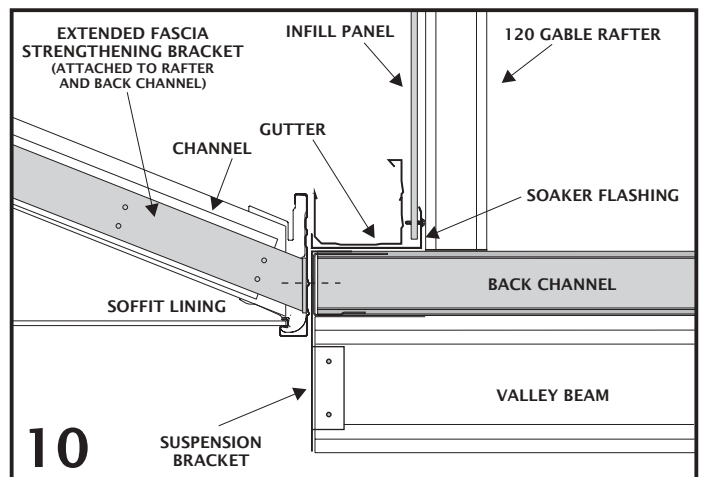
If fixing a Multispan Gable on its end to an attachment beam, elevated to the existing house gutter height, the attachment beam is to be as close as possible

(within 5mm) to the outside face of the gutter (Figure 22). The 150 attachment beam is fixed to rafter strengthening brackets as detailed in Section 2.1.1.

2.2.1 FASCIA STRENGTHENING

It is recommended extended fascia strengthening brackets are fastened at a spacing not exceeding 1200mm centres to fascia and rafters (Figure 10). Brackets and reinforcement channels are also recommended to the first rafter either side of the valley beams. Secure brackets to rafters with 12x25 timber fixing screws through pre-drilled holes and bolt through backchannel and fascia with M10 bolts. Install channels as specified in Section 2.1.1.

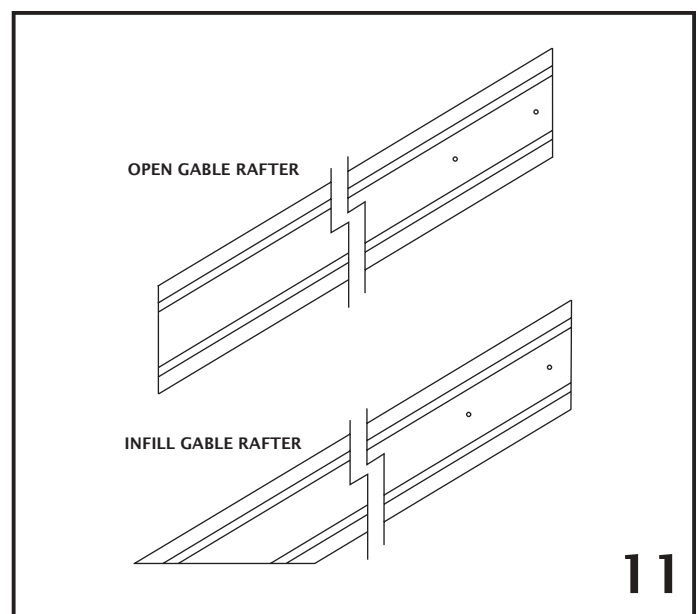
Note: It is the builders responsibility to ensure the existing rafters and fascia are adequately reinforced and tied down to accommodate any additional attached structure loads.



3.0 GABLE FRAME ASSEMBLY

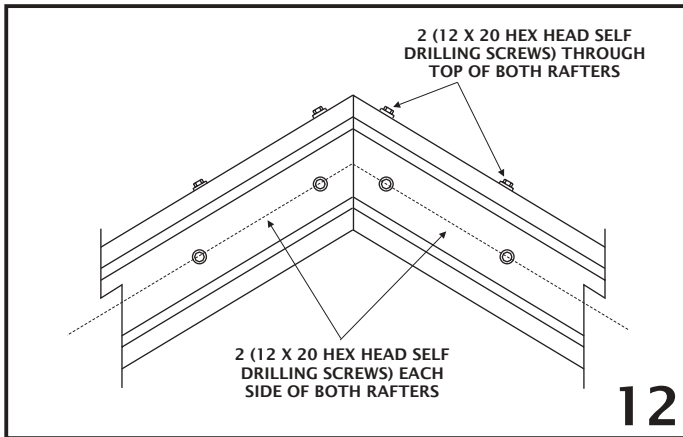
IMPORTANT: Ensure that the double flange portion is at the top when installing all beams and rafters.

Note: The rafters are supplied pre-cut and drilled at the ridge as shown in Figure 11.

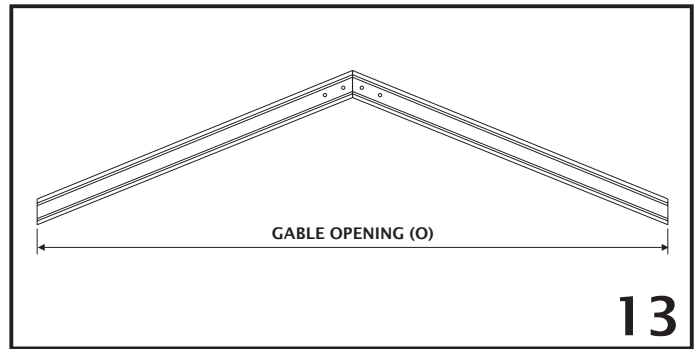


Insert ridge knuckle into the pre-cut rafters and screw together using two 12x20 hex head self drilling screws both sides of each rafter and two 12x20 hex head self drilling screws through the top (double flange side) of each rafter.

Pilot holes indicate screw locations as shown in Figure 12. Make sure that the two ends are flush at the connection, leaving no gaps.



Measure the distance between rafter ends, O, to check valley beam spacing (Figure 13).

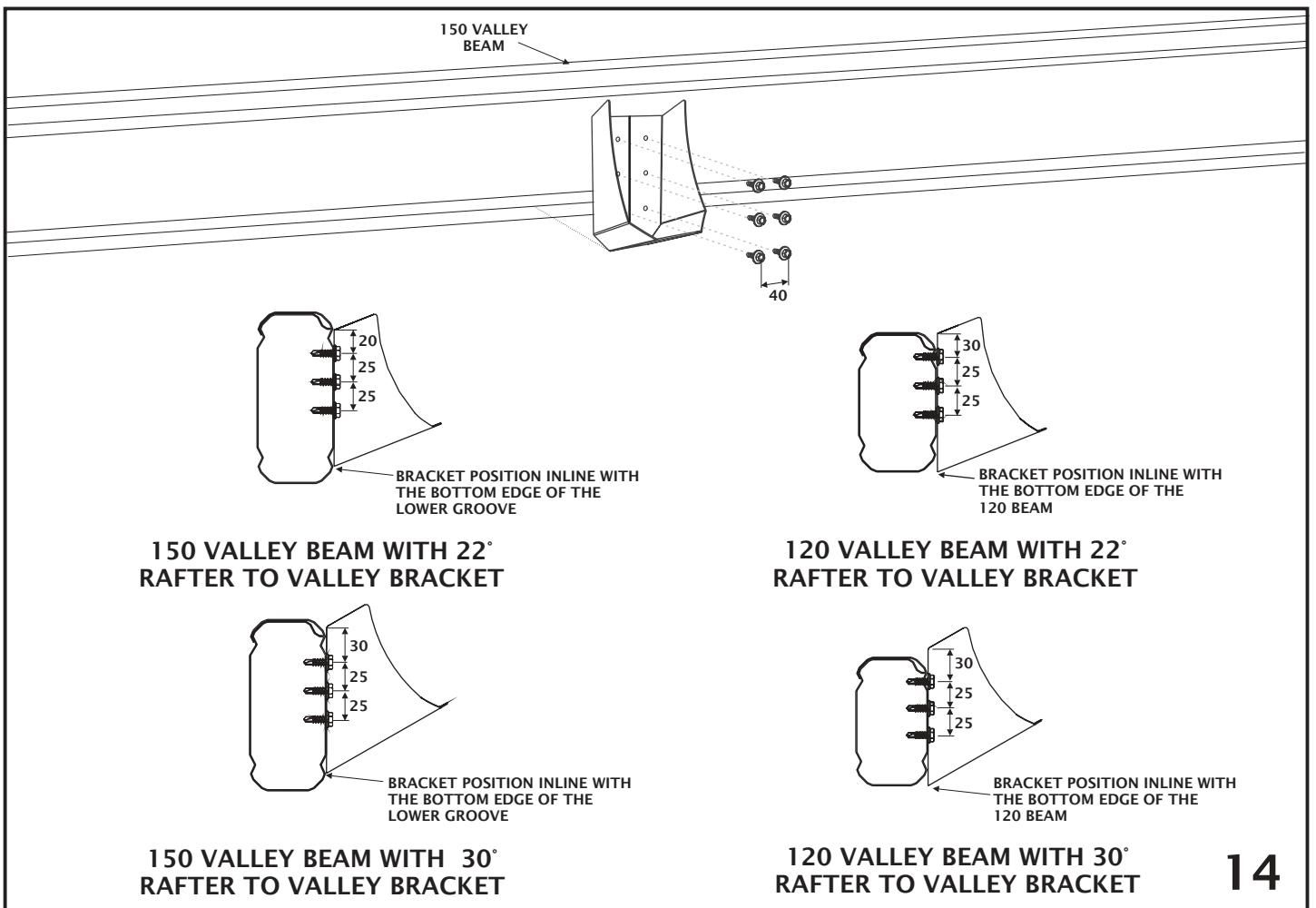


4.0 VALLEY BEAM ASSEMBLY

4.1 SIDE ATTACHED

For side attached units fix the rafter to valley bracket to the valley beams (150 attachment beam will be considered a valley beam) at the correct rafter positions (refer Section 5) using six 12x20 hex head screws per bracket through the pre-drilled holes (Figure 14). Please note the bottom face of the bracket lines up with the bottom edge of the lower groove in the valley beam for 150 beams and the bottom edge of the valley beam for 120 beams (Figure 14). Check positions before drilling.

If any intermediate columns are required, measure the valley beam marking where they meet. Fasten post brackets as explained in 'Outback Flat Attached Verandah, Patio & Carports' under "Bracket and Filler Connections".

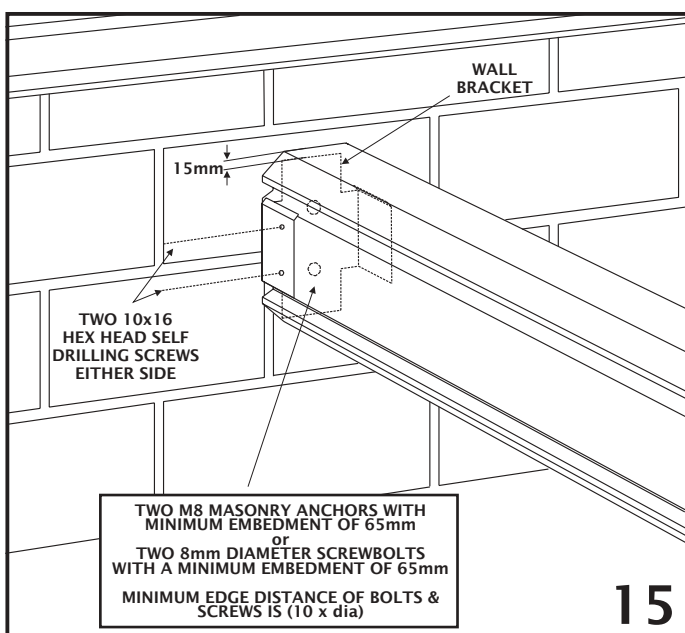


Support the second valley beam at the spacing determined in Section 3.0 on adjustable construction props.

4.2 END ATTACHED

For units attached on the end to a wall, wall brackets are positioned at either side of the gable opening at the spacing determined in Section 3.0. The first bracket is fastened to the wall with two M8 masonry anchors. The curved legs of the bracket are located at the top and the highest point of the wall bracket will be 15mm below the top of the beam (Figure 15). Do not anchor to mortar joints

Pivot the first valley beam (double flange on top) up into the wall bracket so the curved legs locate against the top flute of the beam. The valley beam is fastened to the wall bracket with 10x16 hex head screws in the pre-drilled holes while the opposite end is supported on adjustable construction props.

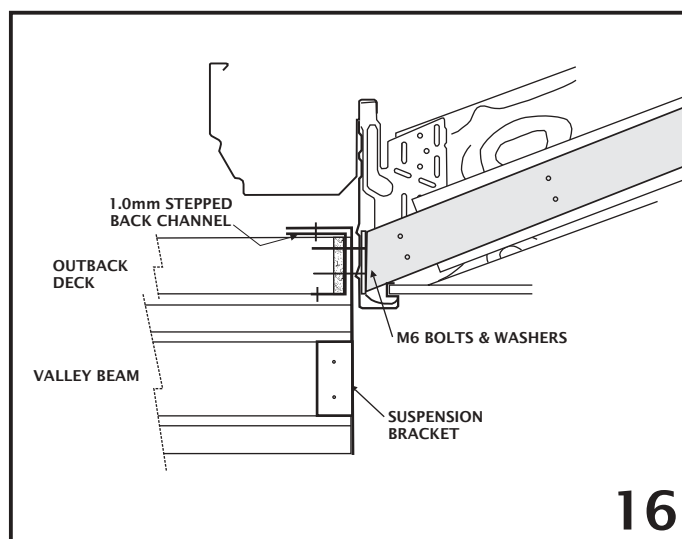


For units attached on the end to a fascia, suspension brackets are positioned at either side of the gable opening at the spacing determined in Section 3.0 (Figure 13).

The top tab of the suspension bracket must be located between the fascia and back channel. A minimum of two M6 bolts with washers are fixed through back channel, suspension bracket and fascia (Figure 16).

Note: If back channel is not present, (ie, no adjacent flat roof) locate a 2mm washer plate behind the fascia at suspension bracket. Fix through bracket, fascia and plate.

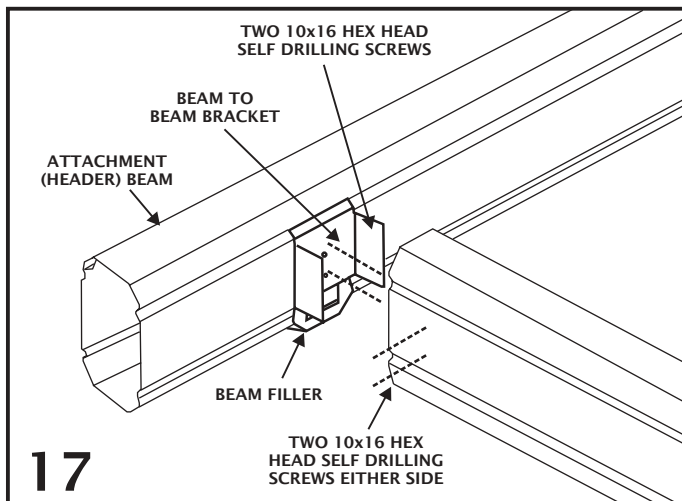
The first valley beam is fastened into the suspension bracket with 10x16 hex head screws through the dimples while the opposite end is supported on adjustable construction props.



For units attached on the end to an attachment beam (Figure 22), beam to beam brackets are positioned at either side of the gable opening at the spacing determined in Section 3.0 (Figure 13).

Fix beam to beam brackets to the attachment beam (header beam) with two 10x16 hex head screws so they clamp the beam filler to the beam (Figure 17).

The first valley beam is fastened over the beam to beam bracket with two 10x16 hex head screws either side while the opposite end is supported on adjustable construction props.



If any intermediate columns are required measure the valley beam marking where they meet. Fasten post brackets as explained in the Stratco Installation Guide: 'Outback Flat Attached Verandah, Patios & Carports' under "Bracket and Filler Connections". This can be done before valley beams are fixed in place.

Support the second valley beam on adjustable construction props but do not fix to the wall, fascia or attachment beam until the front gable frame has been attached.

Fix the rafter to valley brackets to the valley beam at the correct rafter positions (refer Section 5). Fixing details as indicated in Section 4.1.

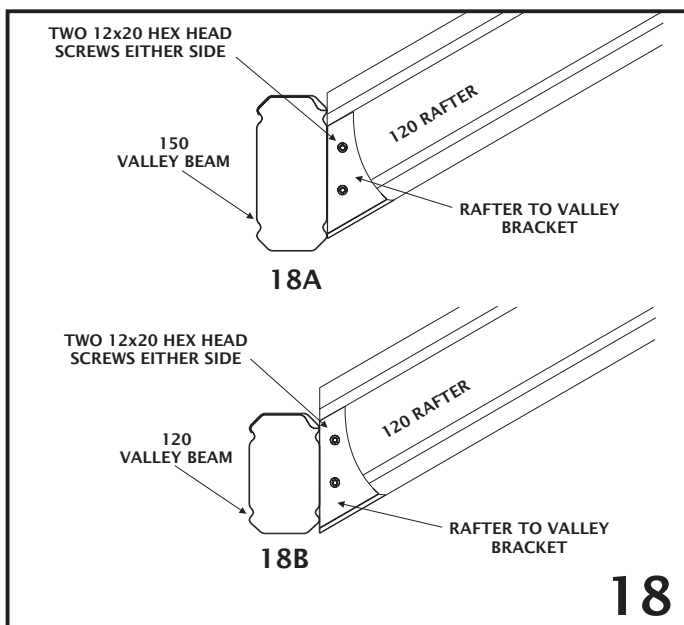
5.0 GABLE FRAME CONNECTION

Note: Be aware that gable frames are always 120 beams, however valley beams may consist of either 120 or 150 beams which will effect the position of the gable frame relative to the valley beam. Refer Figure 18 for rafter position.

5.1 GABLE FRAMES

If no infill is to be used at the front of the gable section (Figure 1), connect the rafter to valley beam brackets at the front of valley beams.

The rafter to valley brackets are attached to the valley beams using six 12x20 hex head screws (Figure 14, Section 4) at the appropriate locations.



Fix the gable rafters into the rafter to valley brackets with two 12x 20 hex head screws either side (Figure 18).

If attached on the end, attach the second valley beam into position.

Intermediate frames should be spaced evenly and fixed into rafter to valley brackets as previously described.

If the rear gable frame has no header beam (no infill) it is fixed as per an intermediate frame.

5.2. GABLE FRAME WITH INFILL

5.2.1 FRONT INFILL (Figure 2)

Where there is an infill at the front of the unit (and/or rear, in the case of side attached), run the front fascia beam of the flat roof section (if applicable) continuously across the opening to support the infill panel and form a header beam (the gutter

subsequently runs full length of the header beam). Measure the end gable frame opening and attach end rafter brackets to the header beam at the appropriate spacing using six 10 - 16 x 16 hex head self drilling screws.

Fasten the rafters that form the end gable frame into the end rafter brackets with a minimum of two 10x16 hex head screws either side (Figure 19).

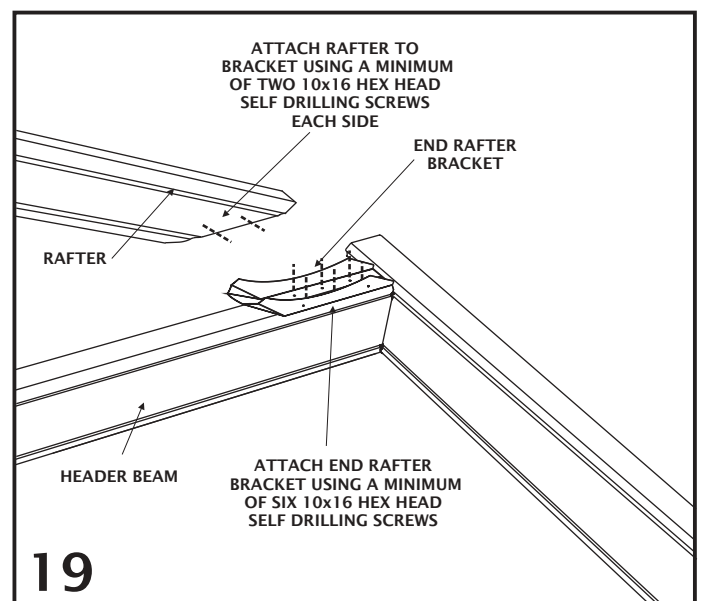
5.2.2 REAR INFILL

A rear header beam will be required if the unit includes infill to the rear gable frame. For units attached at the rear with suspension brackets, the rear header is fixed between valley beams using beam to beam brackets. If fixed at the rear to an attachment beam (Figure 22), the attachment beam becomes the header (valley beams are fixed to the header beam) and if attached on the side the rear header is fixed to the attachment beam with beam to beam brackets.

Measure the end gable frame opening and attach end rafter brackets to the rear header beam at the appropriate spacing using six 10x16 hex head self drilling screws (Figure 19).

Fasten the rafters that form the end gable frame into the end rafter brackets with a minimum of two 10x16 hex head screws either side (Figure 19).

Refer Section 14 for details of fixing infill panels to gable frames.



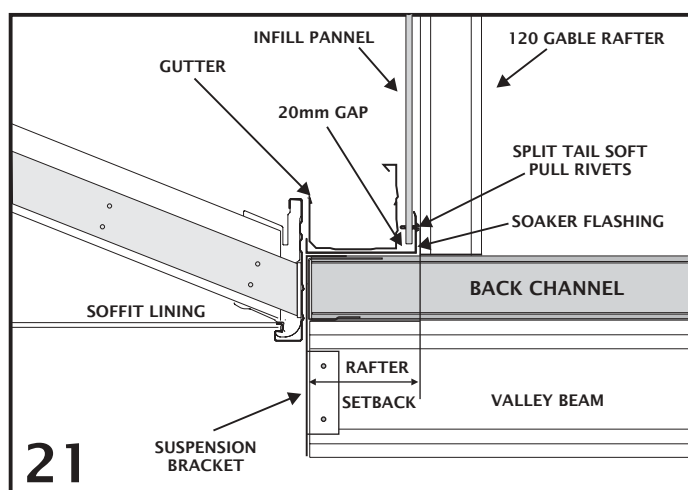
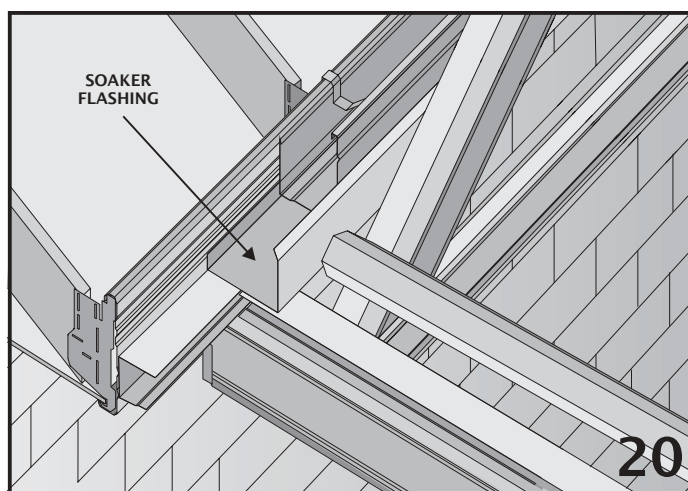
5.2.2.1 SOAKER FLASHING

In the case of a rear infill panel, a soaker flashing is used to conceal the existing house gutter, waterproof the rear end of the gable and neatly finish the base of the infill panel (Figure 20).

The rear gable frame and header beam are set back to accommodate the standard soaker flashing which is optional with the Outback unit (Figure 21). The frame is fixed on the rear header over end rafter brackets (Figure 19).

Fix the standard soaker flashing into position on top of the back channel and underneath the gutter. Infill panels must be fixed with split tail soft pull rivets at 500mm centres a minimum of 20 mm above the pan of the soaker flashing. This will reduce the possibility of moisture being absorbed into the sheet.

Refer Section 14 for details of fixing infill panels to gable frames.



Note:

1. A custom made soaker flashing will need to be ordered to the required dimensions. The rafter setback will need to be adjusted to suit.
2. Do not form stop ends at either end of the soaker flashing.

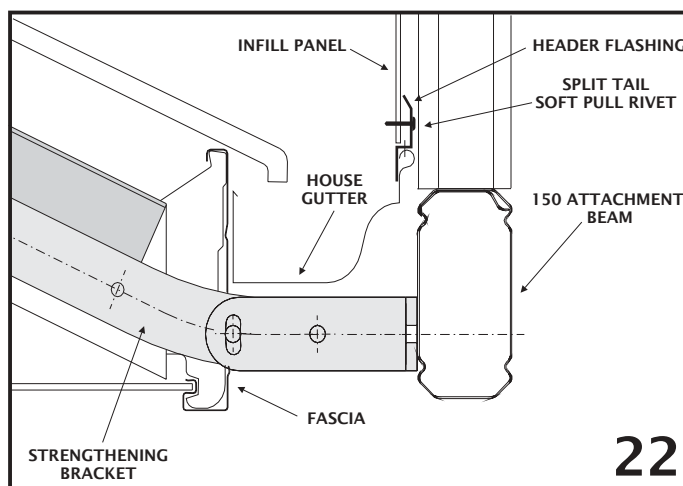
3. Soaker flashing is not to come in contact with the base of the house gutter.

5.2.2.2 HEADER FLASHING

When a gable is fixed at the rear to an attachment beam, elevated to the existing house gutter height, typically a header flashing is used in conjunction with the rear infill. In this case, the rear attachment beam is considered a header, and along with the rear gable frame is fixed as close as possible (within 5mm) to the existing gutter in order to accommodate the header flashing. The gable frame is fixed on the rear header over end rafter brackets (Figure 19).

Fix the header flashing into position over the existing gutter lip with rivets. Infill panels are located behind the header flashing and fixed with split tail soft pull rivets at 500mm centres (Figure 22).

Refer Section 14 for details of fixing infill panels to gable frames.



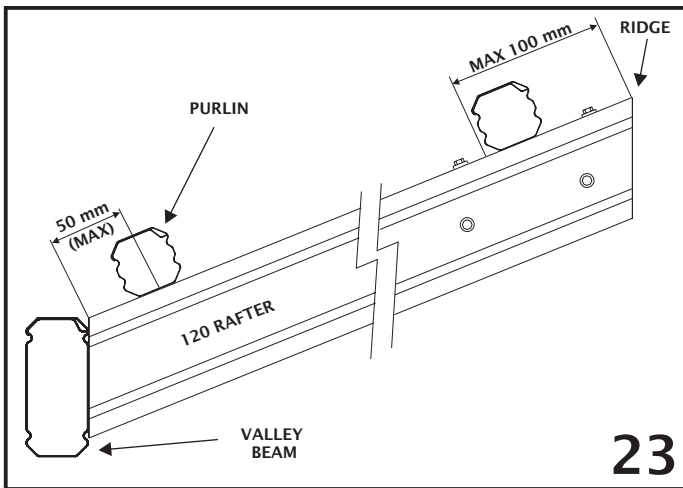
6.0 PURLINS

The top purlin is positioned a maximum of 100mm from the gable ridge (Figure 23). The lowest purlin shall be a maximum 50mm from the valley beam (Figure 23) and any intermediate purlins are spaced evenly on rafters, ensuring maximum recommended deck end spans are not exceeded. Where there is no purlin overhang ensure that the end of the purlins are flush with the top of the rafter chamfer, as in Figure 39.

Note: Top purlins must to be positioned 100mm from the gable ridge when fitting a Ventrige.

Where purlins are continuous over rafters they are fixed in position using 14x95 hex head self drilling screws. If it is necessary for purlins to be broken over standard gable frames (ie, purlins continue in the same direction past a join) a 68mm in-line purlin connector is used.

Note: By drilling pilot holes and screwing through the top of the purlin before lifting it into position, the process of screwing into the rafters is made easier. Pilot holes should also be drilled through rafters at the fixing location.



23

7.0 REMAINING FRAME ASSEMBLY

Assemble the remaining framework of the flat verandah (if applicable) as per the installation guide. 'Outback Flat Attached Verandah, Patios and Carports'.

8.0 COLUMNS AND FOOTINGS

If fixing the columns into the ground, dig the holes to the specified size. Place a full or half brick in the bottom of the hole as shown in Figure 25.

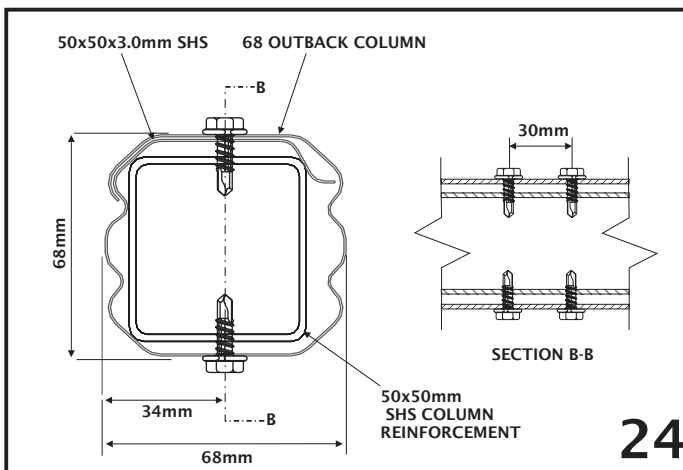
Measure from the underside of the beam to the top of the brick and cut posts to this length at each post location.

8.1 68 OUTBACK COLUMN

If 50 x 50 mm square hollow sections (SHS) have been supplied, the fluted 68 Outback columns will need to be reinforced.

Cut the 50mm SHS 75mm shorter than the fluted post and slide into the column.

Ensure the square section is positioned inside the column and fix using two 12 x 20 hex head screws per side, at both ends, as detailed in Figure 24 and 25.

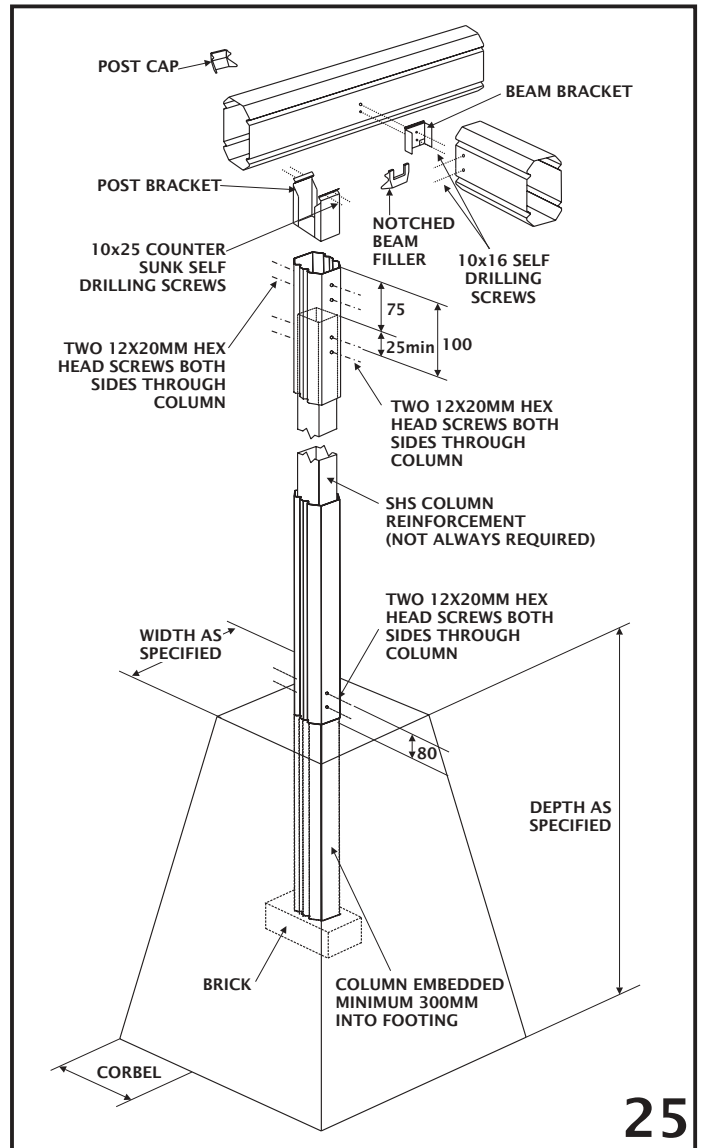


24

Regardless of whether the column is reinforced, slide the top of the 68 Outback column over the installed post bracket until it is flush with the underside of the fascia beam.

The unfluted faces of the column should be aligned with each face of the post to beam bracket.

Fasten the 68 Outback column to the post bracket using two 12x20 hex head screws either side as shown in Figure 25.



25

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

9.0 FOOTING PLATES

Footing brackets are available if fixing posts to an existing concrete slab.

Establish the column lengths by measuring the distance from the underside of the fascia beam to the concrete slab, less the thickness of the footing plate (or 20mm for Outback footing plate).

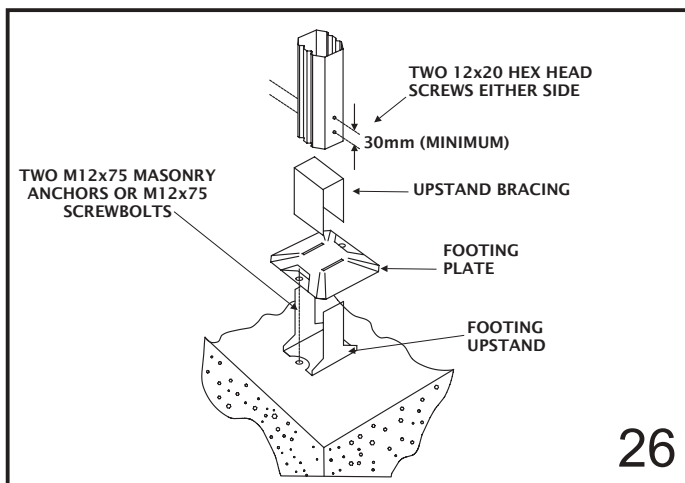
9.1 68 OUTBACK COLUMN FOOTING PLATE

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 as shown in Figure 26. The upstand bracing must be located between the legs of the upstand.

Slide the assembled footing bracket and bracing into the bottom of the column, and fasten with two 12x20 hex head 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. This is shown in Figure 26.

Slide the top of the column over the post bracket and align the column and footing bracket. (Note: it may be necessary to lift the fascia beam slightly to slide the column over the post bracket). The unfluted faces of the column should be aligned with each face of the post to beam bracket. Fasten using two 12x20 hex head screws either side as shown in Figure 25.

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

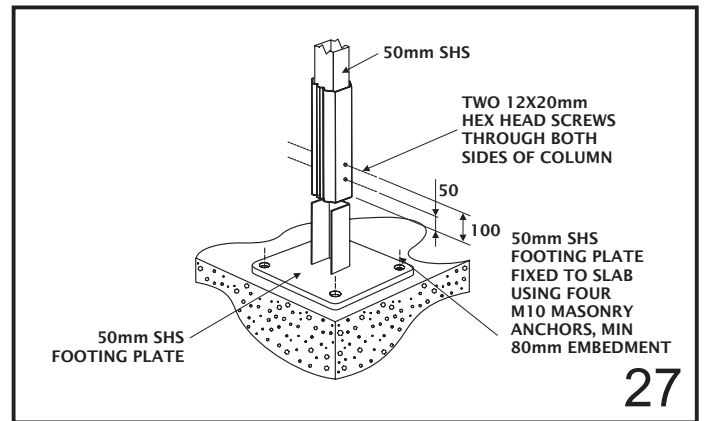


9.2 SHS REINFORCED COLUMN FOOTING PLATE

Slide the SHS reinforced footing bracket into the bottom of the column, predrill and fasten with two 12x20 hex head screws on either side of the post. Locate the top screws approximately 100mm from the base of the footing plate, and the bottom screws 50mm from the base. This is shown in Figure 27.

Slide the top of the column over the post bracket and align the column and footing bracket. (Note: it may be necessary to lift the fascia beam slightly to slide the column over the post bracket). The unfluted faces of the column should be aligned with each face of the post to beam bracket. Fasten using two 12x20 hex head screws either side as shown in Figure 25.

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



10.0 CAPPING

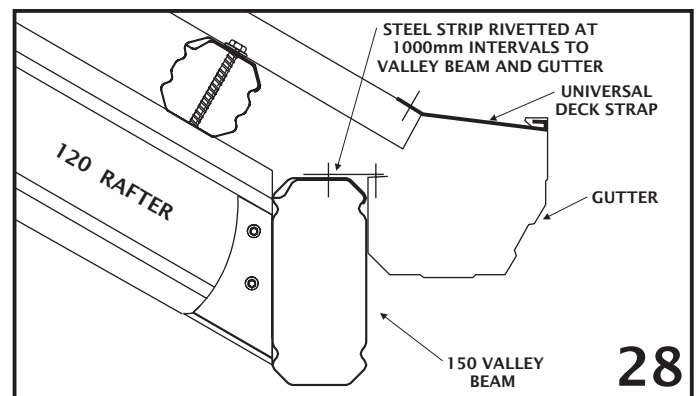
To prevent moisture from entering the beams and for aesthetics, any beams with exposed ends require endcaps be fitted. Align the endcap and push into the exposed beam end.

The postcaps can be fitted over the post-beam connection. Align the two lugs with the two exposed holes of the post bracket and push firmly.

11.0 GUTTERING

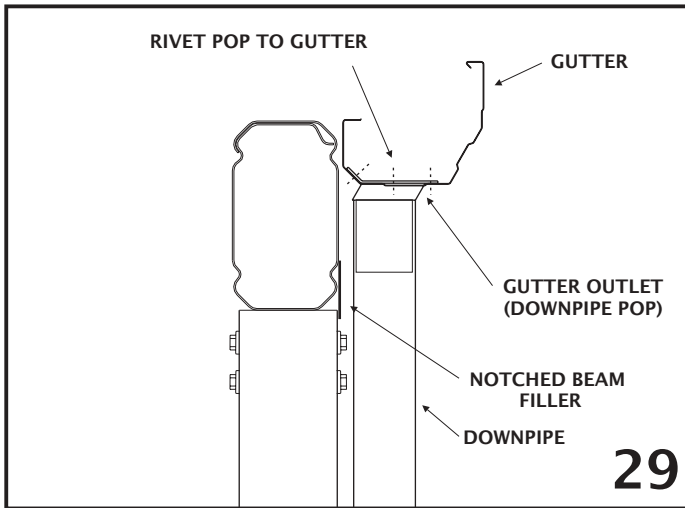
If a flat verandah is included connect the gutter to the flat roof Outback as described in 'Outback Flat Attached Verandah Patios & Carports'. Gutters will need to be mitred if they continue around a corner. All gutter joins are to be waterproofed with silicon.

Where there is no flat roof adjacent to the gable, the gutter is attached with gutter straps and flat connecting strips which are fixed to the valley beam. Cut the strip into sections and rivet at 1000 mm intervals to the valley beam. Fix the gutter to the strip with rivets as shown in Figure 28. Once decking is attached (Section 12.0) the gutter is secured to the roof sheeting using gutter straps at maximum 1000mm intervals. Gutter straps may need to be bent slightly so they can be rivetted to the roof sheets. Waterproof rivets with silicone.



11.1 GUTTER OUTLET ASSEMBLY

Position the downpipes in line with column then cut a hole in the base of the gutter near the back chamfer. Insert the downpipe outlet from the inside of the gutter and rivet in place using 3mm rivets (Figure 29). Remove any swarf and waterproof with silicone.



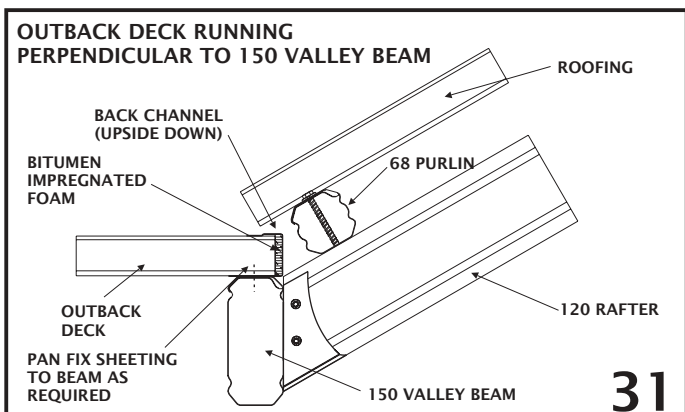
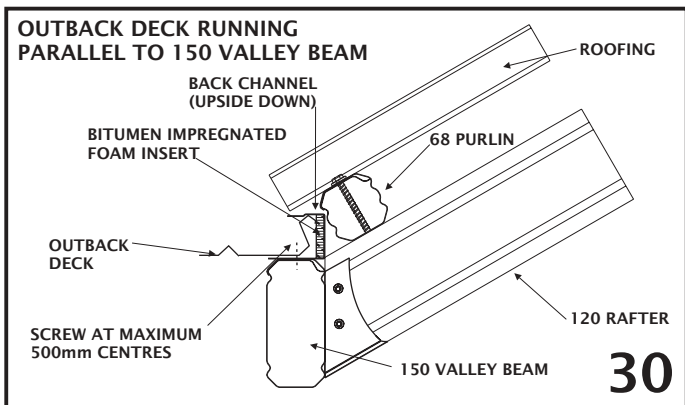
12.0 ATTACH DECKING

12.1 FLAT ROOF (IF APPLICABLE)

Attach the decking to the flat roof verandah first as laid out under "DECKING" ('Outback Flat Attached Verandah, Patios & Carports'), starting from the valley beam and working away, on both sides.

The back channel is attached upside down (the shorter leg on top) along valley beams to assist the fixing of decking. (Figures 30 and 31). The channel extends to the end of the valley beams. Screw roofing through the back channel into the beam to standard fixing requirements.

Figure 30 shows the back channel and Outback deck running parallel fixed to a 150 valley beam. Figure 31 shows the back channel and Outback deck running perpendicular to a 150 valley beam.



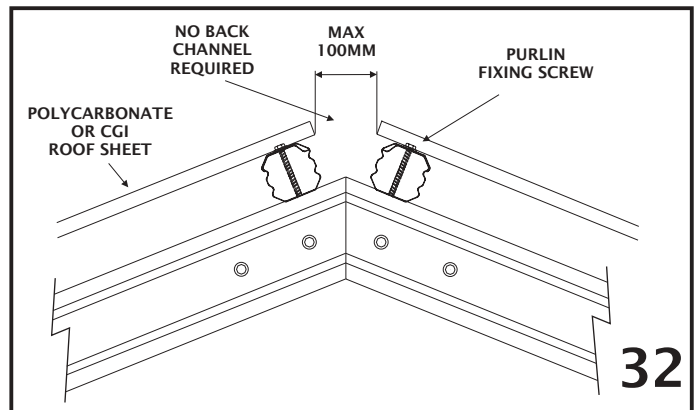
12.2 MULTISPAN GABLE

When attaching the decking to the gable, start from the front, aligning the sheets so as to avoid the purlin fixing screws.

If the deck of the flat roof section runs perpendicular to the valley beams, align the ribs of the gable decking up with the flat roof section. Fix the decking so that it is level with the top of the flat deck, and so there is a maximum 100 mm gap at the ridge (Figure 32).

When using polycarbonate or corrugated roofing no back channel is required at the ridge. When Outback deck is used, back channel is required at the ridge, and is supplied with the unit (Figure 33).

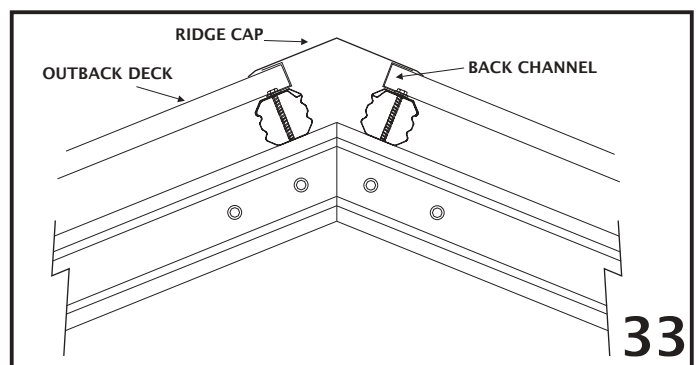
For polycarbonate roofing, screws include special 'polycarbonate' washers and 10mm holes are to be pre-drilled in the sheeting prior to fixing to allow for thermal expansion.



13.0 RIDGE CAPPING

13.1 STANDARD RIDGE CAP

For Outback deck slide back channel over the ridge end of the deck and rivet into place. Position the ridge cap over the two back channels and screw or rivet into the channel (Figure 33).



For polycarbonate and corrugated roofing screw or rivet (depending on ridge cap style) the ridge cap directly onto the top of the deck. Waterproof rivets with silicone.

Note: Do not rivet to polycarbonate decking, screw only.

13.2 OUTBACK VENTRIDGE

Fit the vent ridge stop ends over either end of the vent ridge base using their tabs to locate and hold them in place. Secure the bottom tab of the stop ends to the base from above with a 4-3 rivet either side.

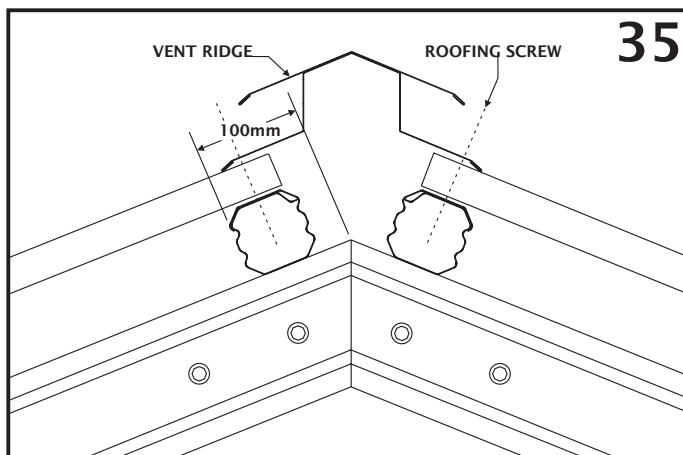
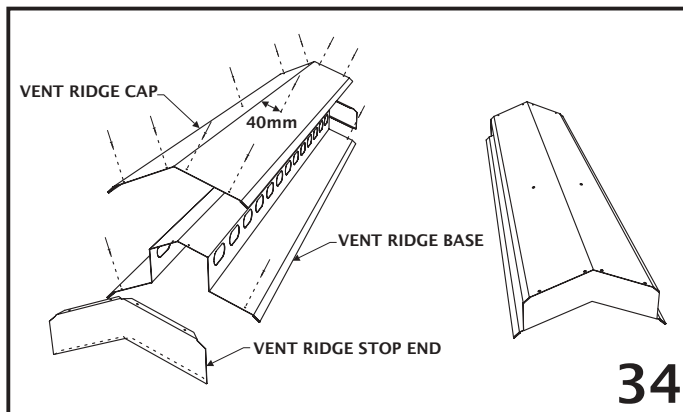
Lift the base onto the apex of your gable unit. Secure through the base and roofing sheets into the purlin below at maximum 900mm centres either side using standard CGI or polycarbonate roofing screws as required (Figure 35). For polycarbonate roofing, pre-drill 10mm diameter holes through the base and roof sheet prior to fixing.

Place the vent ridge cap on top of this assembly making sure to keep the ends flush with the outside surfaces of the stop ends.

Starting at one end, evenly space four 4-3 rivets (two either side of the apex) 5mm in from the edge. Ensure that the top two rivet nearest the apex on either side goes through all three components to fasten the cap to the stop end and the base; the outer rivet will fasten the cap to the stop end.

Repeat this on the other end and then secure the cap to the base at maximum 900mm centres using a 4-3 rivet 40mm out from the apex on both sides.

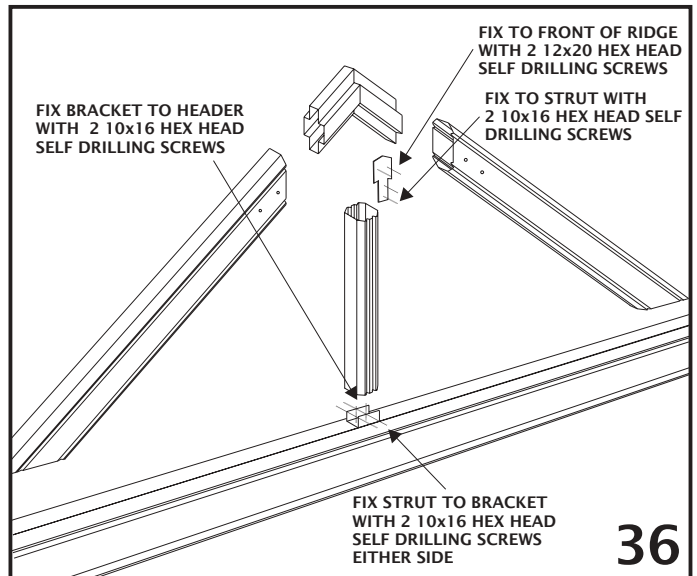
Waterproof all rivets with silicone.



14.0 INFILL PANELS

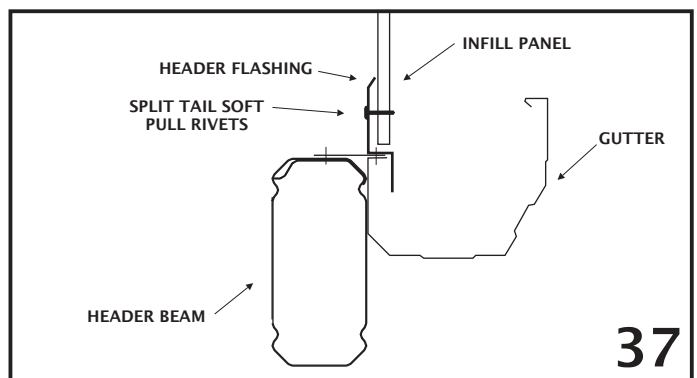
Two styles of header flashings are available to neatly finish the base of infill panels, one is used on header beams with gutter and the other for headers without gutter. Gable infill panels are to be cut in triangular shapes to fit the end frame. Panels can be painted to the desired colour before installing.

End struts are fixed mid-span of the header to a header beam bracket at the base and an end strut plate at the ridge (Figure 36).



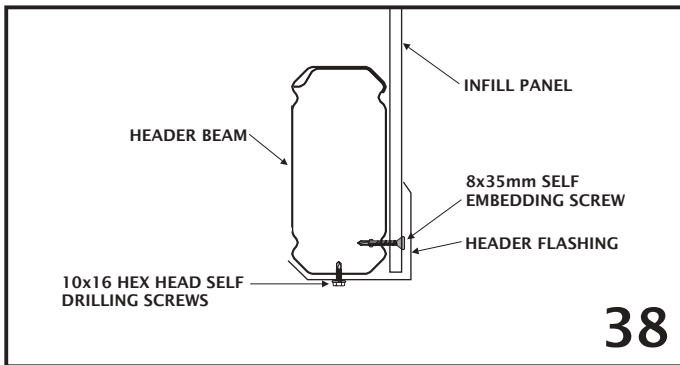
14.1 HEADER BEAM WITH GUTTER

Attach the header flashing to the rear gutter lip with rivets. Infill panels are fixed through the top groove of rafters and the end strut with 8x35mm self embedding teks at maximum 500mm centres in non-cyclonic areas and 250mm centres in cyclonic areas. Panels are fixed at the base through the header flashing with split tail soft pull rivets at maximum 500mm centres (Figure 37).



14.2 HEADER BEAM WITHOUT GUTTER

Infill panels are fixed through the top groove of rafters and the lower groove of the header beam with 8x35mm self embedding screws. Fix at maximum 500mm centres in non-cyclonic areas and 250mm centres in cyclonic areas. Panels are fixed to the end strut at the same spacings. Attach the header flashing to the underside of the header beam with 10x16 hex head screws to neatly finish the base of the infill panels (Figure 38).

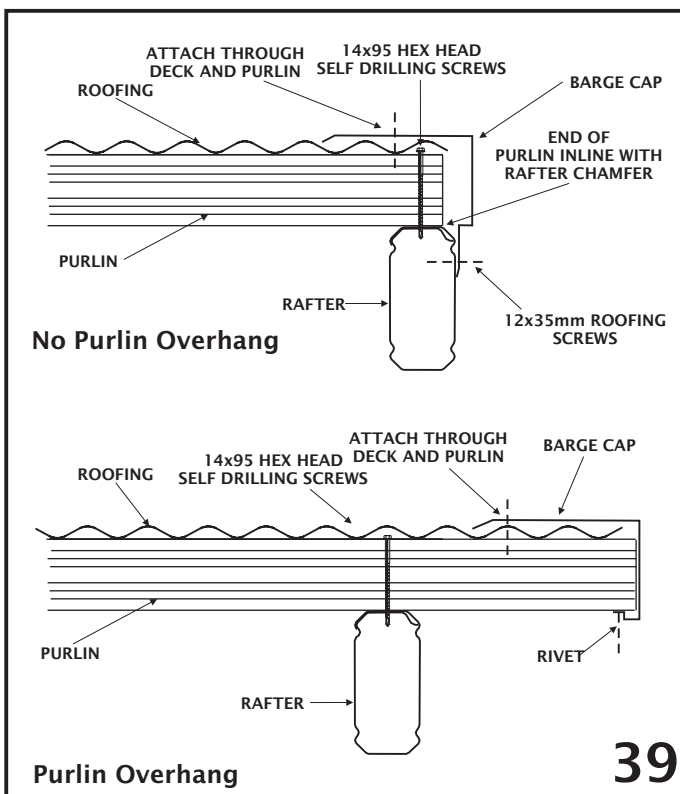


15.0 ATTACHING BARGE CAPPING

If barge capping is required at the ends of the unit, attach the barge cap by screwing the lower lip to the rafter and screw the top section to the purlin through the deck, as shown in Figure 39. Mitre the barge at the apex of the gable for a neat finish. Run the barge cap along the gable section to where it meets the flat verandah deck and finish neatly.

Note: For polycarbonate roofing, pre-drill 10mm holes in the sheeting before fixing the barge.

If infill panels have been installed, the lower lip of the barge capping should cover the panel screws to give a neat finish.



16.0 FINAL FIXING

Before securing columns in position ensure a minimum fall of 1 in 500 (12mm for every 6 m) towards downpipe/s.

16.1 FINAL FIXING INTO CONCRETE

Thoroughly check posts 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 and air pockets. Repeat this process until the hole is full, continually checking the posts. Once the concrete is set remove any temporary bracing or props. The concrete must be finished slightly raised towards the column to ensure water runs away from the column.

16.2 FINAL FIXING ONTO EXISTING CONCRETE

If fixing the columns to an existing concrete slab with a footing plate, each plate must be fixed to the concrete as specified in Figures 26 or 27 as appropriate. The minimum distances from an anchor hole to the concrete edge is 75mm.

16.3 DOWNPIPES

Before attaching the downpipes, rivet the downpipe bracket to the column and bend the flanges along the 'break-line' to accept the downpipe. Slide the downpipe over the downpipe outlet and rivet into position. Rivet the downpipe to the brackets. Weatherproof all fasteners with silicone.

17.0 HELPFUL TIPS

Leave plastic coating on members until they are about to be fastened to the structure. This will help prevent scratching of the colorbond finish.

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.

Double check all measurements and drilling locations before proceeding.

Regularly check framework for squareness and vertical alignment to make sure it hasn't moved during construction.

Leave all construction props and/or bracing in place until concrete is set or columns are bolted to the slab.

18.0 MAINTENANCE

You have now completed your new Stratco Outback. Your Stratco Outback will give you many years of service by simply following the important recommendations set out in the Stratco 'Selection, Use and Maintenance' brochure.

We recommend you wash and wipe down your Stratco Outback unit with a soft broom, mop or sponge as frequently as you would wash your car to maintain it duco. More frequent cleaning and rinsing will be required in severe environments.

