

FRONTIER[®]

FREESTANDING CARPORT

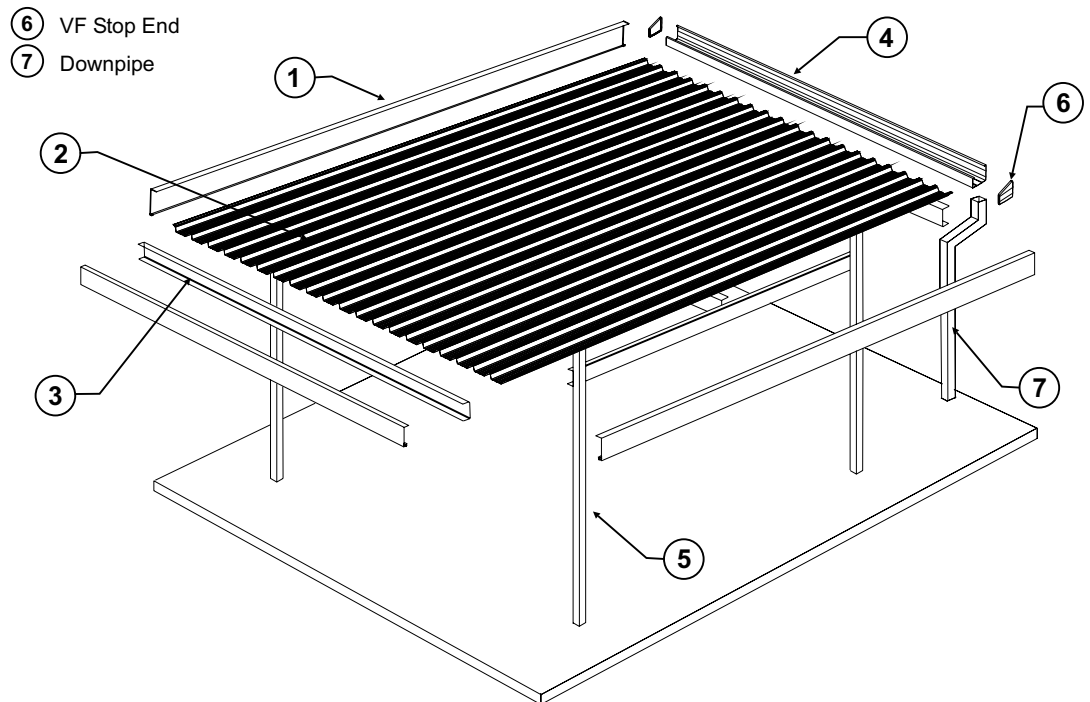
STRATCO FRONTIER[®] ASSEMBLY INSTRUCTIONS.

Your complete guide to building a FRONTIER[®] FREESTANDING CARPORT

BEFORE YOU START

Carefully read these instructions. If you do not have all the necessary tools or information, contact Stratco for advice. Lay out all components and check them against the delivery docket. The component location diagram below identifies each key part and indicates their fastening positions.

- ① Barge Capping
- ② Prodek[®] Roofing
- ③ C-Section
- ④ VF Gutter
- ⑤ SHS Posts



TOOLS REQUIRED

- Drill & Hex-Head Adaptor
- Rivet Gun
- Tape Measure
- Tin Snips
- Spirit Level
- Hack-Saw
- Post hole digger
- Silicone Gun
- Spanners or Ratchet
- Adjustable Construction Props
- Turn Up/Down Tool
- Concrete
- Ladder

1.0 INTRODUCTION

Please read these assembly instructions thoroughly before commencing the construction and refer to them constantly during each stage of 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.

2.0 MARKING OUT CARPORT POSITION

2.1 IN GROUND FOOTING

Place stakes at the carport post locations using the appropriate column positions from the supplied drawing.

Note: These post locations are critical, as the roof sheet and beam lengths are governed by these dimensions.

Tie string lines between the stakes to ensure the footings are in line. Check the dimensions and diagonals for squareness.

Dig holes to the required size as stipulated by the supplied drawing. Place bricks in the bottom of the holes to give a solid base onto which the posts can be positioned. Do not concrete posts in place at this stage.

Note: A slight fall (1°) should be allowed for toward one end of the unit at which the gutter and downpipe will be located.

2.2 ON CONCRETE FOOTING

If bolting posts onto an existing concrete slab, check to ensure concrete dimensions allow for the required anchor edge distance and anchor depth as indicated on the supplied drawings. Stratco does not take any responsibility for concrete failure. The erector/owner is responsible for ensuring that the slab is capable of supporting the Frontier® Freestanding Carport.

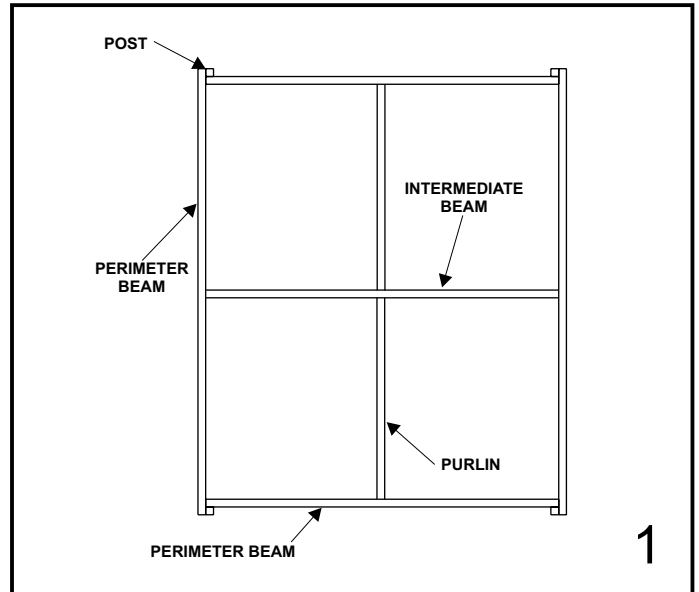
Mark the position of the posts from the drawings supplied.

Note: These post locations are critical, as the roof sheet and beam lengths are governed by these dimensions.

Check the marks with a string line to ensure the footings are in line. Check the dimensions and diagonals for squareness.

Note: Do not drill through the concrete at this stage. Footing plates are not fixed until the carport frame has been assembled.

3.0 ASSEMBLING THE FRAMEWORK

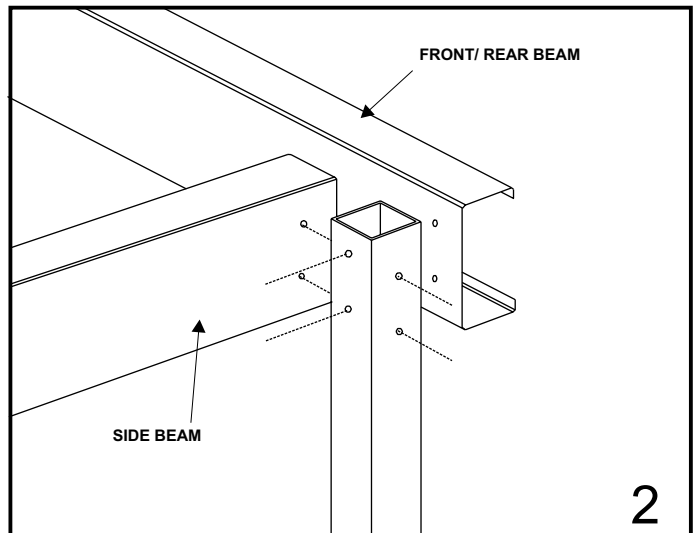


3.1 PRE-DRILL HOLES

By following the plan detail on the supplied drawing, locate the perimeter beams.

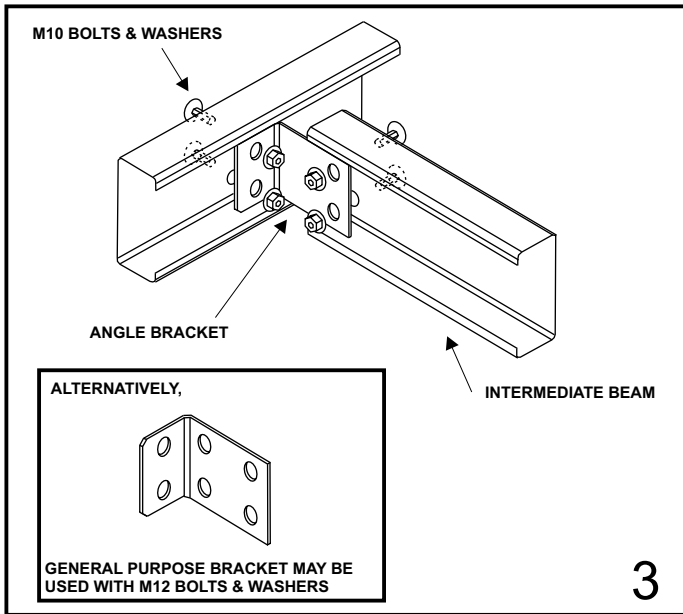
Note: Lengths will vary between the side beams and the front and rear beams and will depend on the type of carport.

Pre-drill 14mm holes through the C-Section beams and both sides of the SHS posts at the appropriate locations (Figure 2). Ensure clearance is provided between holes to avoid bolts interfering.



Locate all the intermediate beams and purlins if required. Pre-drill 11mm holes at each end of these beams to match the hole locations in the supplied angle brackets (Figure 3).

Alternatively, General Purpose Purlin Brackets may be used (which include six holes in the bracket). If this is the case, holes must be predrilled to 14mm.

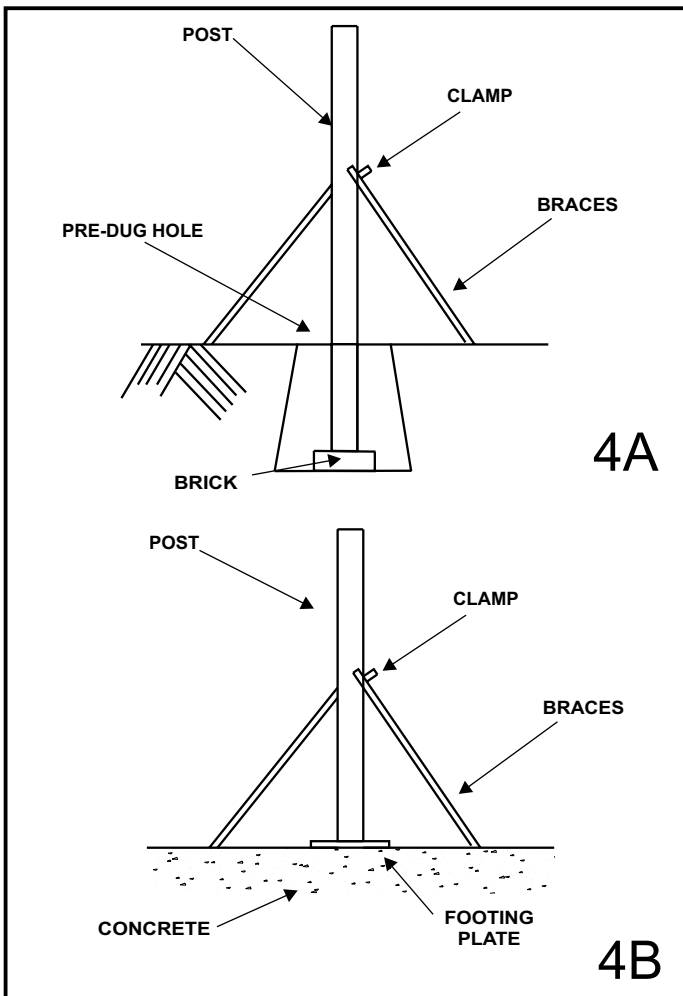


Note: The type of carport will determine whether or not intermediate beams and purlins are present. Figure 1 indicates how to identify intermediate beams and purlins.

Note: Before predrilling any holes it is recommended a smaller pilot hole be drilled to make the job easier.

3.2 POSTS

Stand the posts in the appropriate footing locations and brace in position with clamps and struts (Figure 4).



Note: For in concrete carports, posts need to be cut to allow for a 1° fall towards the gutter and downpipe end.

Note: For on concrete carports, two different post heights will have been supplied to allow for a slight fall toward one end of the unit at which the gutter and downpipe will be located. Ensure that the two posts at each end of the unit are the same height and that the gutter and downpipe will be located in the correct location.

3.3 PERIMETER BEAMS

Bolt holes should have been pre-drilled at the ends of the perimeter beams.

Lift the perimeter beams into place and support on adjustable construction props. Bolt these beams to the posts using the M12 bolts and washers supplied (Figure 2).

Note: The side beams should sit on the inside face of the posts while the front and rear beams should sit on the outside face of the posts.

3.4 INTERMEDIATE BEAMS AND PURLINS

If intermediate beams and purlins are required, bolt holes should have been pre-drilled at each end to match those already present in the supplied angle brackets. Attach an angle bracket to each end of the intermediate beams and purlins using the M10 bolts and washers supplied (Figure 3). If General Purpose brackets have been supplied, use M12 bolts and washers.

The supplied drawing will indicate the location of all internal beams. Lift into position and support on adjustable construction props

Drill 11mm holes (14mm for General Purpose Bracket) at the appropriate locations in the adjoining beams to match the hole locations in the angle brackets. Bolt together using the M10 bolts and washers supplied (Figure 3) or M12 bolts and washers for General Purpose Bracket (Figure 3).

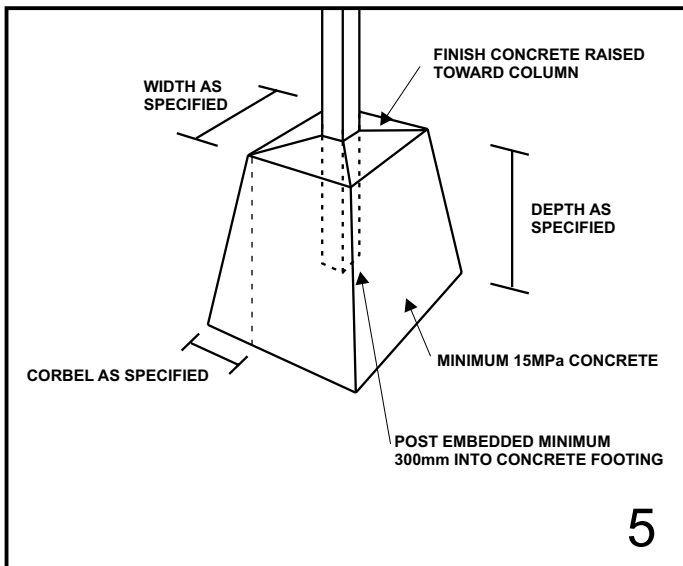
4.0 FOOTINGS

Now that the basic framework has been erected, check all dimensions are correct and the diagonals for squareness. Check that the columns are in line and plumb and that the falls are correct for roof and gutter.

4.1 IN GROUND FOOTING

Concrete the footings and leave overnight to cure.

Note: The concrete should be finished slightly raised towards the column, ensuring water runs away from the column (Figure 5).

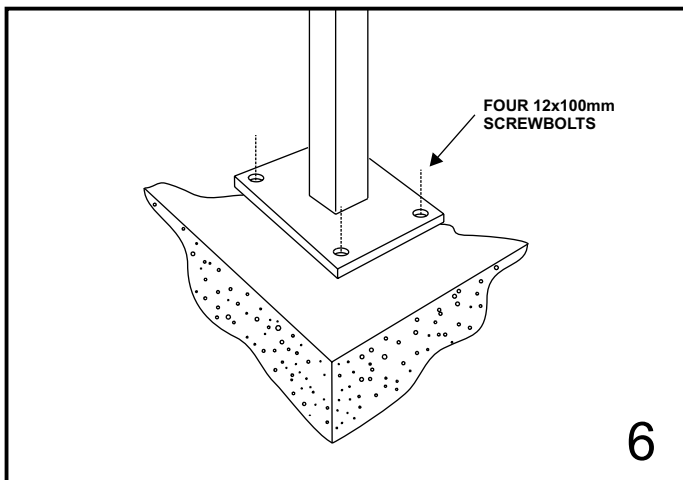


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4.2 ON CONCRETE FOOTING

Mark the position of the holes through the existing holes in footing plate. Drill 12mm holes to a minimum depth of 100mm.

Fix the footing plates to the concrete slab (minimum 120mm depth) using the 12 x 100mm Screwbolts supplied through the pre-drilled holes in the slab (Figure 6).



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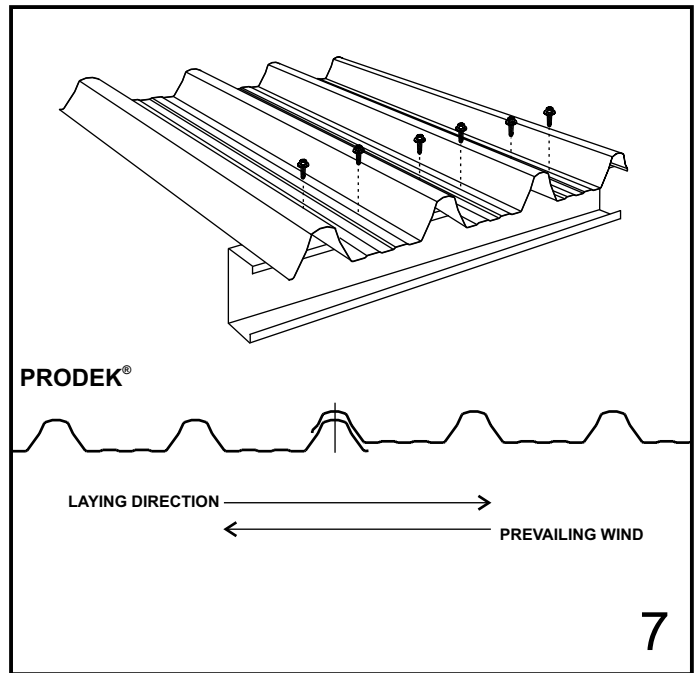
5.0 ROOFING

Start laying the roof sheeting from one side of the unit and continue across the unit. Figure 7 indicates the laying direction and lapping detail for roof sheeting.

Decking should be positioned to allow an equal deck overhang at each end of the unit (600mm for cyclonic conditions and 900mm for non-cyclonic conditions).

Fix each sheet in place, as specified by the fixing details on the supplied drawing, before laying the next sheet.

Note: Ensure that the sheets are lapped correctly (Figure 7).



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6.0 GUTTERING

Select where your downpipe will be located and notch a hole in the gutter and insert a downpipe outlet (pop) so that the downpipe is in line with an end column. Fasten the pop in place using rivets and silicone seal.

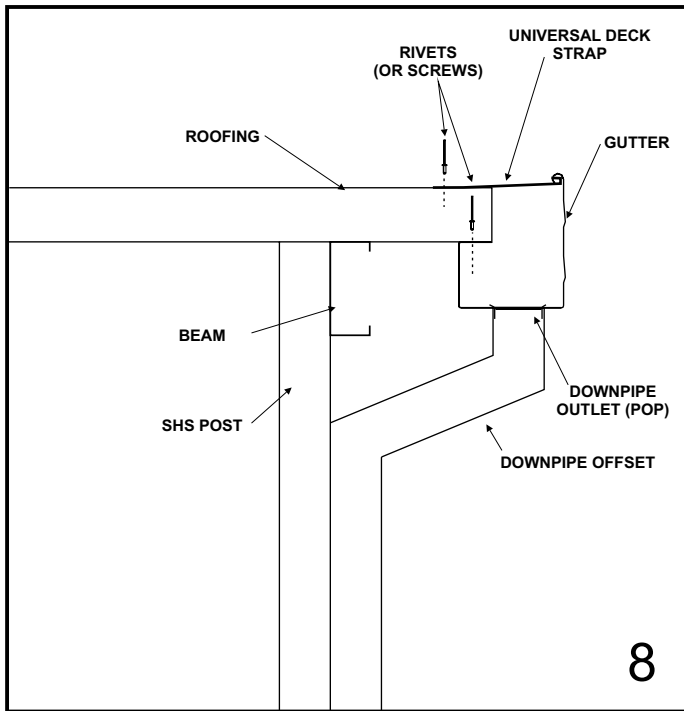
Fasten left and right hand gutter stop ends to the end of the guttering. Rivet and silicone seal to achieve a waterproof connection.

Fix the length of gutter to the lower end of your carport. Place the return lip at the back end of the guttering underneath the roof sheet, allow for a 50mm overflow into the gutter. Fasten with pop rivets or 10x16 self drilling screws through the pan of the roof sheets into the return lip on the gutter (Figure 8) at maximum 900mm centres.

Fasten Universal Deck Straps in place from the front of the gutter to the roof sheet rib (Figure 8) at maximum 900mm centres.

Cut the downpipe as required to form an offset, using the elbows supplied, attach the PVC Downpipe to the downpipe pop, rivet in place. Secure downpipe in position with downpipe straps.

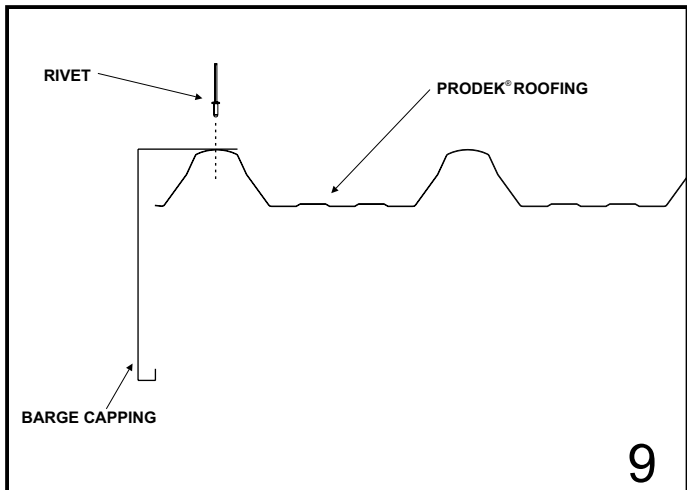
Silicone seal at all rivet locations to waterproof.



7.0 BARGE CAPPING

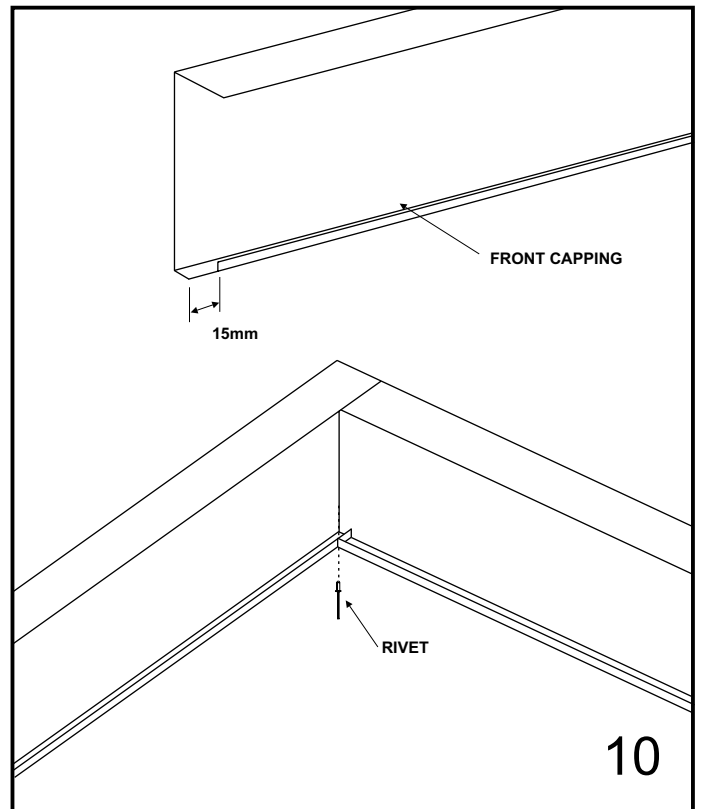
Only the front and two sides of the carport require the attachment of barge capping. The rear has the gutter attached.

Fix the side barge capping first. Position capping flush with the front of the roof sheets and fasten through the top crest of the roof sheets using rivets at 500mm centres (Figure 9). Fasten the base of the capping to posts with one 12x35mm self drilling screw. Repeat for the other side of the carport.



The front cap is fixed through every third rib and will need to have the return lip on the bottom edge notched using tin snips. This should provide a neat corner joint and can be fastened from below to hold the corner closed using a rivet (Figure 10).

Seal with silicone at all rivet locations to waterproof.



10.0 HELPFUL TIPS

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.

Leave bracing struts and construction props in position until structure is complete and concreted in. This stabilises the structure and holds it square during construction.

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.

11.0 MAINTENANCE

Regular washing or hosing of the inside and outside of your Stratco Frontier® Carport will ensure it looks its best at all times. Refer to the "Selection, Use and Maintenance of Stratco Steel Products" brochure for complete details of maintenance requirements.