VERANDAH & CARPORT

STRATCO DO-IT-YOURSELF PROJECTS.

Your guide to assembling a Stratco Universal Verandah and Carport.

The addition of a verandah or carport adds so much to the comfort, appearance and value of your home. Installation can be easy - all it takes is some careful design and pre-planning.
This brochure will give you the basic techniques required for assembly. Further advice is available from Stratco.
The Stratco Universal system is engineered for maximum strength and the components will allow complete flexibility in design.
The friendly, experienced staff at Stratco will welcome the opportunity to assist with practical advice and handy tips.

TOPICS COVERED INCLUDE:

- □ COMPONENTS
- □ BEFORE YOU START
- □ SITE PREPARATION
- □ MAINTENANCE
- □ COUNCIL APPROVAL
- □ ACCESSORIES
- □ ASSEMBLY

COMPONENTS

A. ROOF DECKING
B. FASCIA TRUSS
C. V.F. GUTTERS
D. BACK CHANNEL & B.I.P.
E. DOWNPIPES
F. INTERMEDIATE POST
G. POSTS
H. MINOR ACCESSORIES

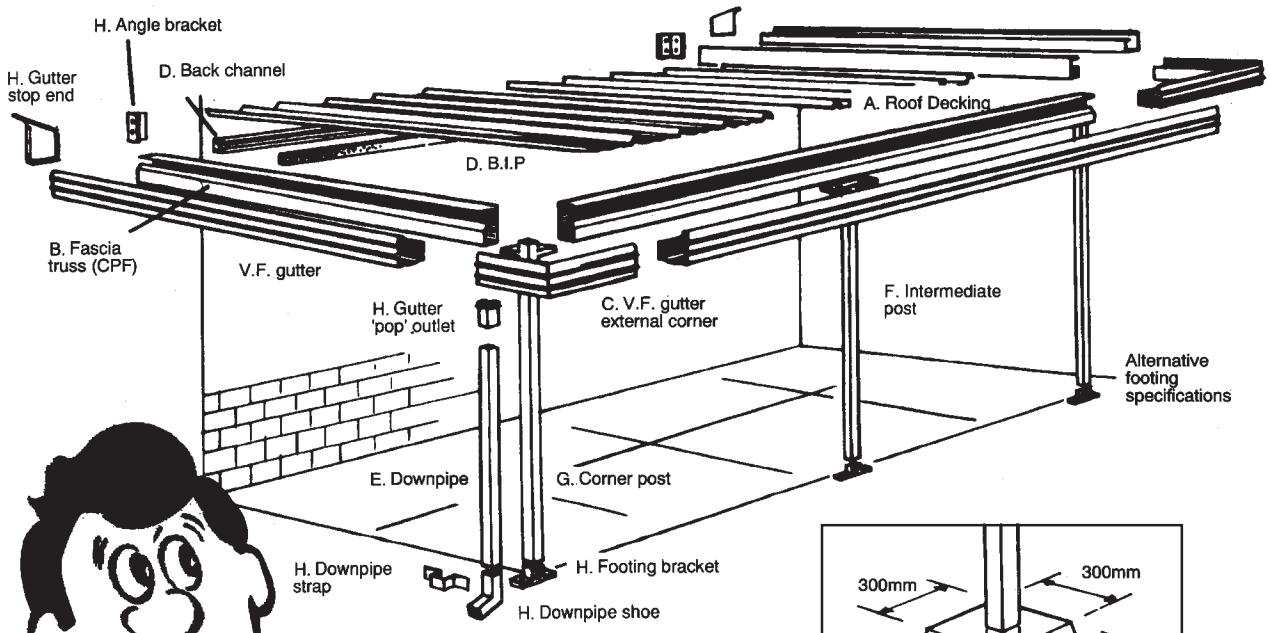
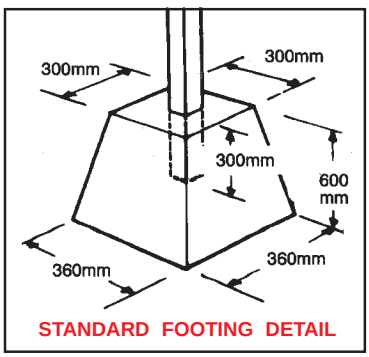
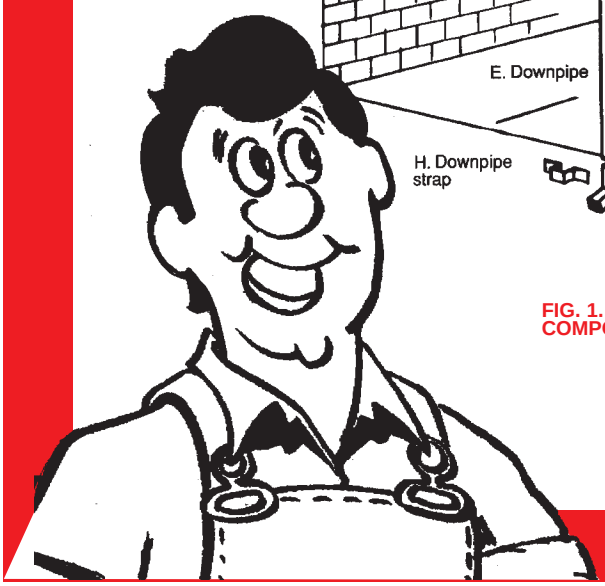


FIG. 1. VERANDAH & CARPORT COMPONENTS



STANDARD FOOTING DETAIL



COUNCIL APPROVAL

It is important to check with your Local Government Authority prior to installation of your new carport or verandah.

BEFORE YOU START

Read these instructions thoroughly before starting your project and refer to them constantly during each stage of construction. If you have any questions our friendly expert staff will gladly answer them.

Before starting work, lay out the framework components in order of assembly on the ground and check them off against the Stratco delivery note. Figure 1 shows the relative location of most of the components.

The sectional views in figures 2, 3 and, 4 will give you a good idea of how some of the components will look fully assembled.

Check a length of decking against your framework which you have laid out on the ground. The decking should overhang the truss (into the gutter) by approximately 50mm. If necessary, cut the trusses to size at this stage. Pre-drill the trusses to line up with the plates on the posts.

Remember, always measure twice before cutting or drilling and always remove drill filings ('swarf') which otherwise can cause premature rusting.

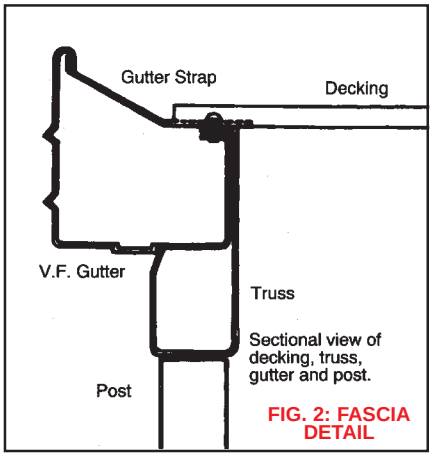


FIG. 2: FASCIA DETAIL

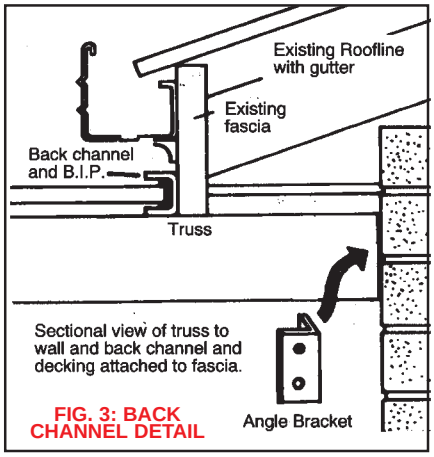


FIG. 3: BACK CHANNEL DETAIL

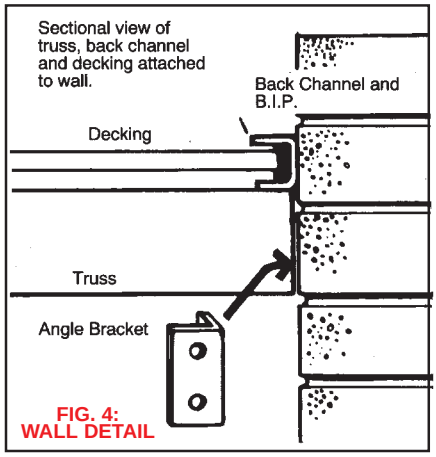


FIG. 4: WALL DETAIL

ACCESSORIES

These may be purchased from Stratco if you do not already have them available.

SITE PREPARATION

It is advantageous to clear and level the site prior to assembling your verandah or carport.

This makes for easy access when using ladders and extension cords.

ASSEMBLING THE FRAMEWORK

THE BACK CHANNEL

The first stage of construction is to attach the back channel to the fascia or wall. If more than one length of back channel is to be used, they just butt together. The first fixing must be no more than 100mm from the end of each length of the back channel. The remainder of fixings between must be no more than 600mm apart. It is advisable to pre-drill the back channel on the ground. Run a bead of silicone along the back of the back channel to seal the gap between it and the fascia or wall.

For fastening to a timber fascia use 6mm x 32mm coach screws at 500mm centres. If fastening to brickwork use 6mm x 50mm masonry anchors at 500mm centres.

Flat and rebate steel fascias require 10 x 16 Teks® screws and alternate rivets at 250mm centres. A special cover channel may also be needed for Clickform fascias.

Once the back channel is secured, run another bead of silicone along the top joint of the back channel and wall or fascia.

THE TRUSS FRAMEWORK

Support the front truss on adjustable construction props at the approximate height required. Allow for a slight fall to the end of the truss/gutter where the downpipe is to be located. Because the gutter fits into the truss it relies on the truss for its fall. Now attach the side trusses to the wall or fascia and temporarily support (with an adjustable construction prop) - but do not attach at the front end (see Figure 5).

The side trusses need to be the same pitch as is recommended for the decking. In the case of Prodek and Topdek this is 1^0. For every metre of deck the truss must fall a minimum of 20mm.

Dig the post holes and attach the posts to the front and side trusses (see Figure 6). The posts are not to be concreted in at this stage. Your basic framework should now be assembled as shown in Figure 7. Check your basic framework for squareness by ensuring that the diagonal measurements (A to C and B to D) are the same.

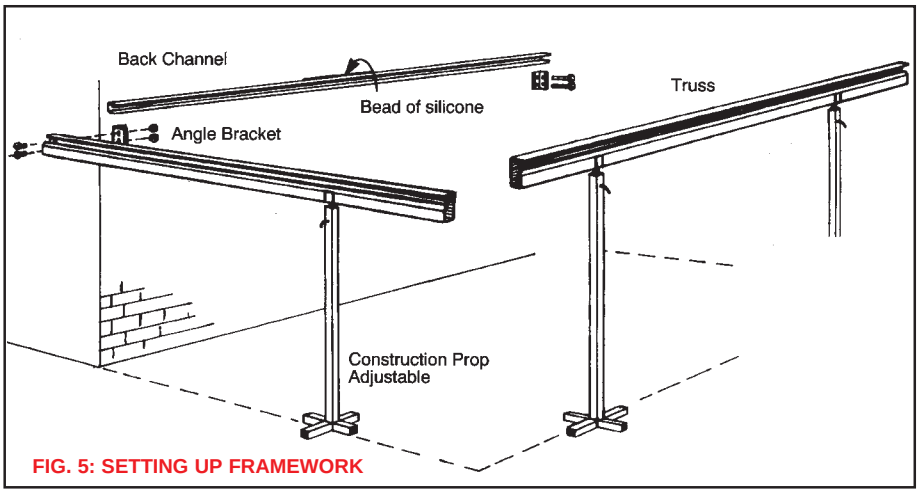


FIG. 5: SETTING UP FRAMEWORK

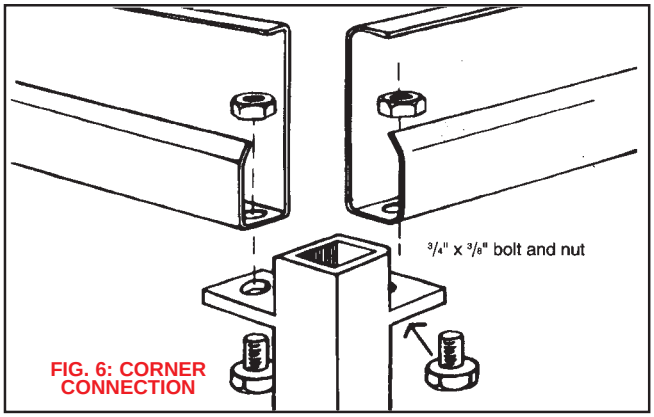


FIG. 6: CORNER CONNECTION

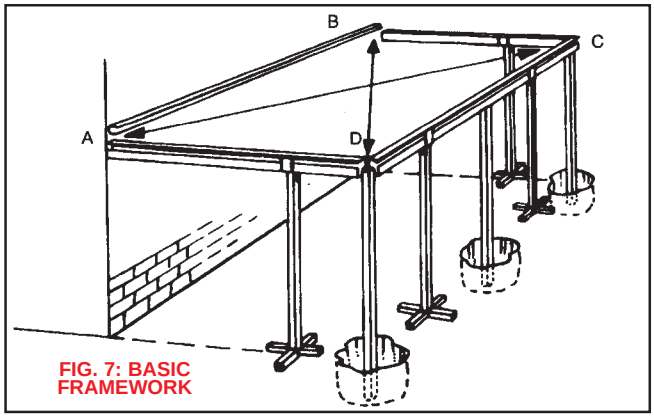
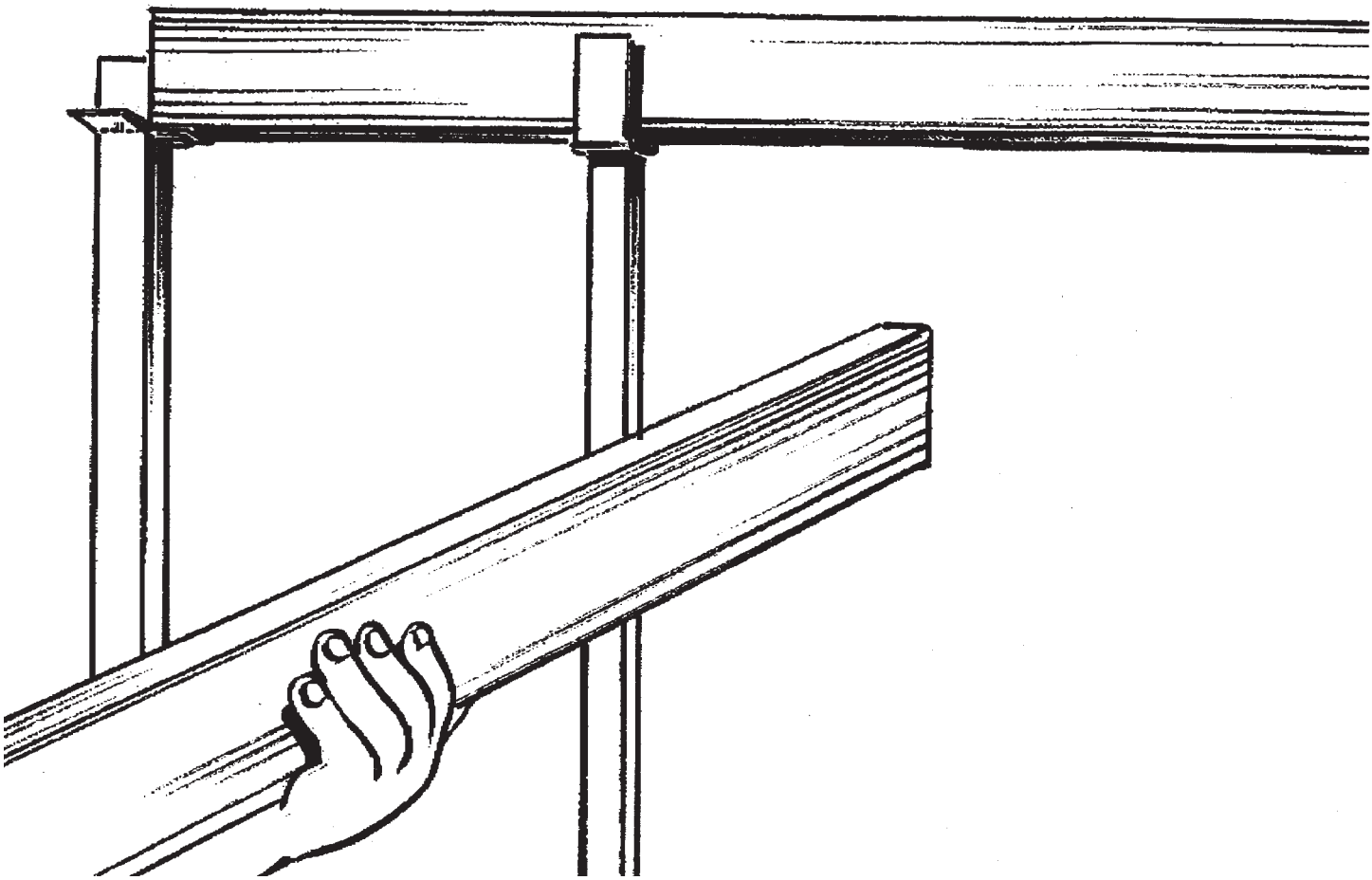


FIG. 7: BASIC FRAMEWORK



INTERMEDIATE BEAMS

If intermediate beams are required, they should be attached at this stage. Generally beams should be evenly spaced for best appearance. Stratco can advise on maximum beam spacings for your application. Avoid placing beams over window or door openings. Also see Figures 8-10. Once the framework is complete, check that the falls are correct.

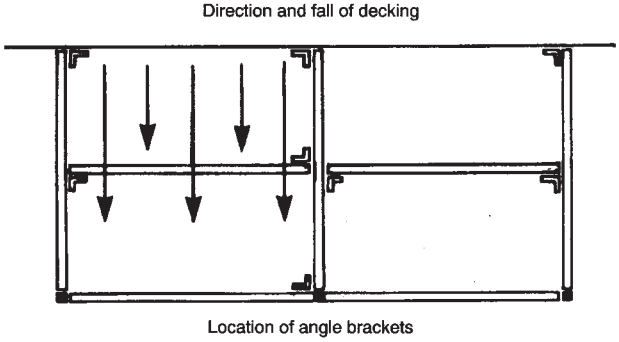


FIG. 8: INTERMEDIATE BEAM PLAN

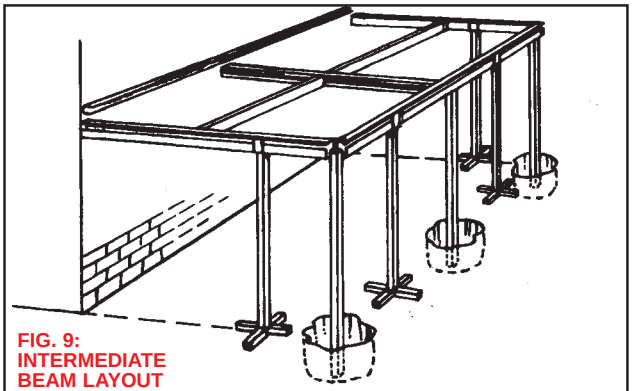


FIG. 9: INTERMEDIATE BEAM LAYOUT

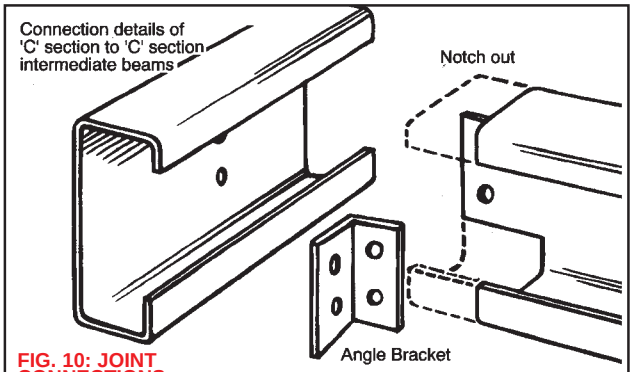


FIG. 10: JOINT CONNECTIONS

ATTACHING GUTTERS AND DOWNPIPES

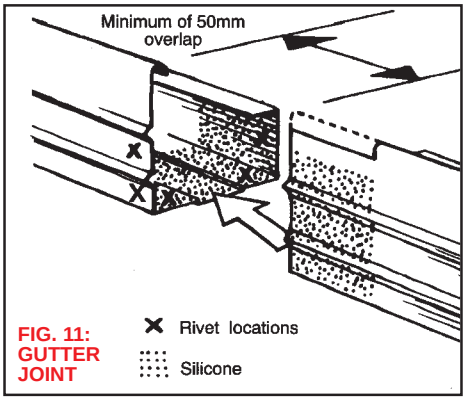


FIG. 11: GUTTER JOINT

Before attaching any of the guttering to the truss attach stop ends and corner mitres to the side gutters allowing a minimum overlap of 50mm (see Figure 11), rivet and silicone. Cut a hole and insert and attach the gutter outlet ('pop') at the required position.

Firstly fix the front gutter to the front truss temporarily with one rivet every 3 metres. The additional necessary support for the guttering is provided when the decking is fastened down with a rivet through the decking, truss and gutter. Now attach the side sections of gutter with mitres attached to the side trusses and the front section of gutter.

Make sure that the gutters and roof are totally free of swarf. The downpipe is not attached at this stage because the posts are not yet fixed in their final vertical position.

ATTACHING THE DECKING

Insert the bitumen impregnated polyurethane (B.I.P.) roll into the back channel. Prior to installation the decking should be turned up at the back channel end, and turned down at the gutter end, using a turn up/down tool. (see Figure 12).

Ensure that all the sheets of deck are the right way round so that all their locking ribs or overlaps are on the same side. For safety and accuracy this can be done while still at ground level. The overlap of roof sheets should be away from the prevailing wind.

Mark the back channel and front truss with pencil lines every 1000mm to ensure that when laying the decks you keep them parallel (usually at 90° to the wall). Ensure that the deck is pushed firmly into the B.I.P. to guarantee correct weatherproofing.

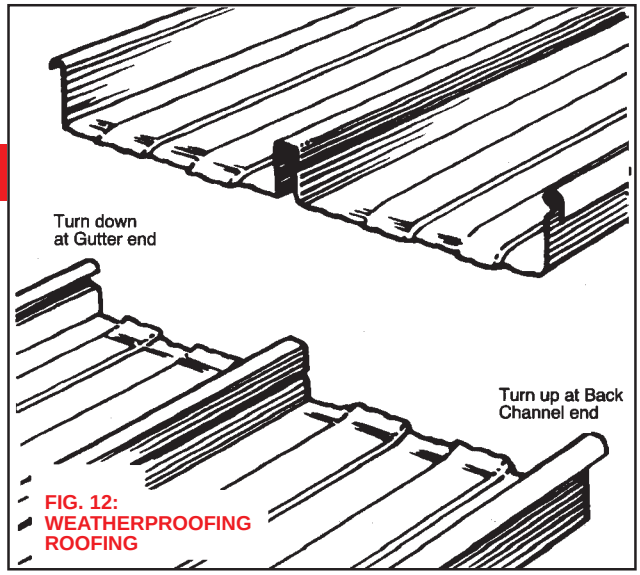


FIG. 12: WEATHERPROOFING ROOFING

ATTACHING THE DECKING continued...

Fasten the first sheet using two rivets in each ‘pan' (4 for each sheet on each support). The deck is riveted from underneath through the back channel and the front from the top through the deck, truss and gutter (see Figures 13 and 14). Subsequent sheets are clipped to the previous sheet and riveted.

On units requiring intermediate beams each deck must be riveted to these beams in the same manner as to the front truss - namely 4 rivets per sheet. Waterproof each rivet with a touch of silicone and remember to remove all swarf as you go.

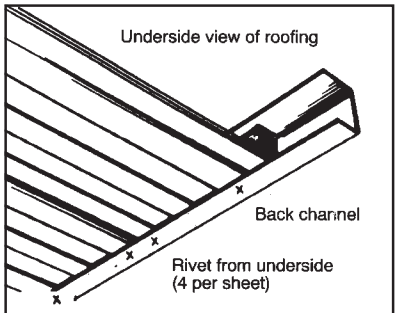


FIG. 13: ROOFING TO BACK CHANNEL CONNECTION

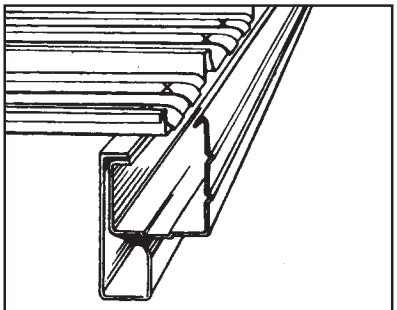


FIG. 14: ROOFING TO TRUSS CONNECTION

FINAL FIXINGS - GUTTERS

Gutter straps (Universal Deck Straps) clip into the inside roll of the gutter, and are riveted through the decking into the truss on the inward, end. Check the alignment of the gutter against the truss (to ensure it is straight and flush) before final fastening to the truss.

POSTS

It is now time to concrete the posts into position. We recommend that you put a half brick under the posts to spread the load and to reduce movement while the concrete is setting. Check thoroughly with a spirit level before, during and immediately after concreting.

The downpipes can now be attached to the gutter outlets ('pops') and to the posts, using the downpipe straps.

The adjustable construction props should be left in place for at least 2 to 3 days after completion to ensure that the concrete has set properly.

MAINTENANCE

Failure to maintain a regular maintenance programme may result in a significantly reduced lifespan (refer to the “Selection Use & Maintenance of Stratco Steel Products" brochure).

Your new verandah or carport should receive a wash and wipe down with a soft broom, mop or sponge as frequently as you should wash your car to maintain its duco. Washing should occur at least every 6 months and more frequently in coastal or industrial areas. Stratco steel products which are regularly washed by rain require no additional maintenance.

In corrosive industrial or marine environments, the manufacturer recommends the use of colour steel with a stainless steel base. Contact Stratco for further details.