

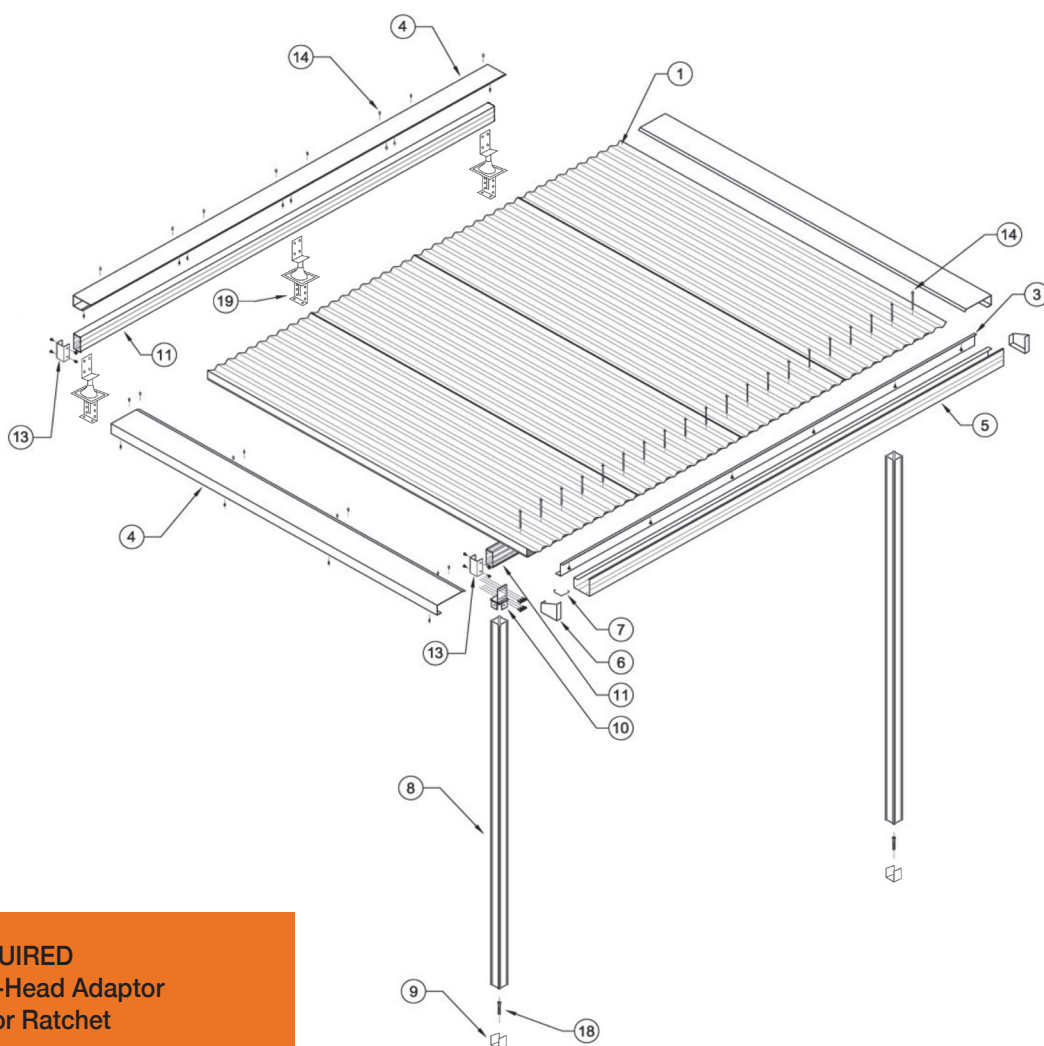


INSULSPAN

INSULATED ROOFING PANELS

FLYOVER INSULATED ROOF for VERANDAH / AWNING / PATIO

**Your complete guide to building a
flyover verandah, awning or patio**



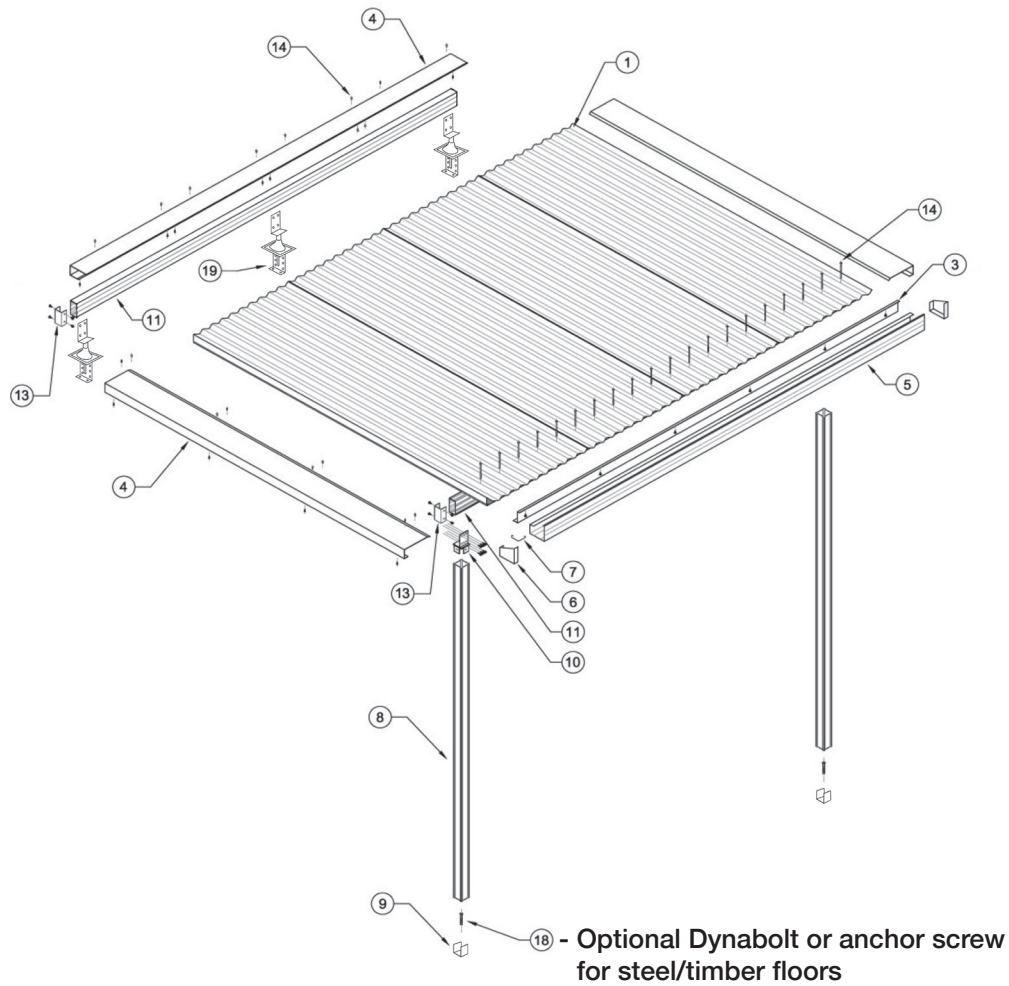
TOOLS REQUIRED

- Drill & Hex-Head Adaptor
- Spanners or Ratchet
- Tape Measure
- Spirit Level
- Silicone Gun
- Neutral-cure silicone
- Ladder
- Hacksaw
- Rivet Gun
- Tin Snips
- Stringline
- Adjustable Construction Props

Distributed by:

FLYOVER ROOF

1.0 LAYOUT OF COMPONENTS FOR A SINGLE ROOF

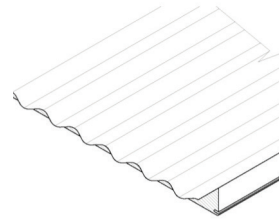


LIST OF SUPPLIED COMPONENTS AND QUANTITIES

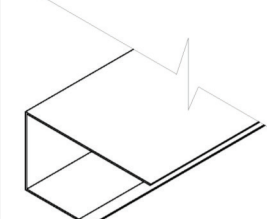
Item	Component	Qty	Item	Component	Qty
1	Insulspan (roof panel)	4	9B	Internal Post Base 90mm	2
2	Receiver Channel	0	10	Post/Beam Connectors	2
3	'Z' Flashing	1	11	Beam	2
4	Barge Capping	3	12	Beam Joint Connectors	0
5	Gutter	1	13	Beam End Caps	4
6	Gutter End Caps	2	14	Screw SD Hex Neo Class 4 14-20x115	20
7	Gutter Brackets	3	15	Rivets 3.2mm Colour	200
8A	Posts 65mm	2	16	Wafer Head 10-16 x 16 Class 4 Colour	100
8B	Post 90m	2	18	M12 x 115 Galvanised Dynabolts	0
9A	Post Base 65mm	2	19	Extenda Bracket	3

2.0 PARTS DESCRIPTION

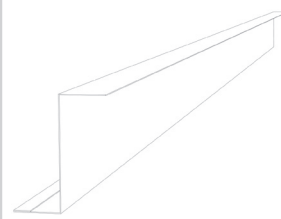
1 Insulspan



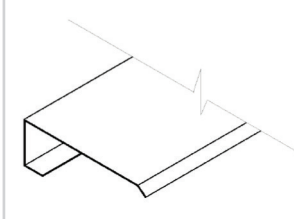
2 Receiver Channel



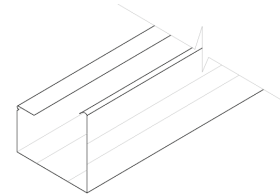
3 'Z' Flashing



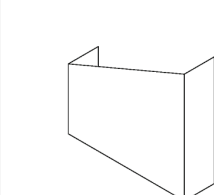
4 Barge Capping



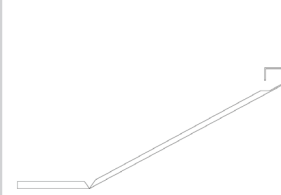
5 Gutter



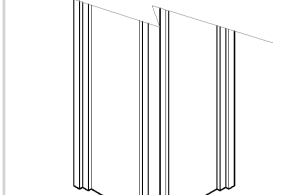
6 Gutter End Caps



7 Gutter Brackets



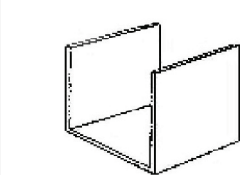
8A Posts 65mm



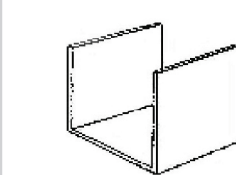
8B Post 90mm



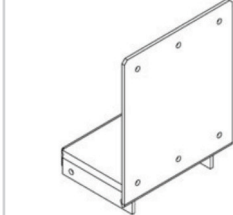
9A Internal Post Base 65mm



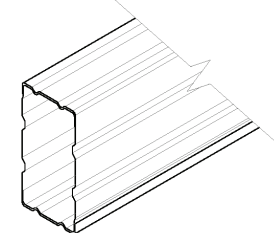
9B Internal Post Base 90mm



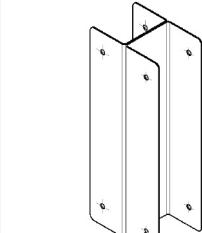
10 Post/Beam Connectors



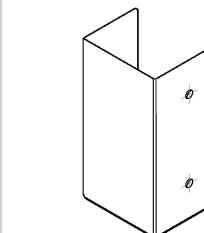
11 Beam



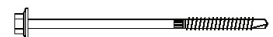
12 Beam Join Connectors



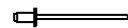
13 Beam End Caps



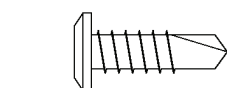
14 Screw SD Hex Neo Class 4 14-20x115



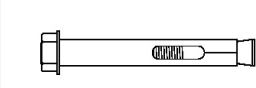
15 Rivets 3.2mm Colour



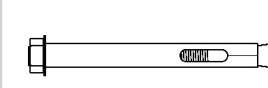
16 Wafer Head 10-16 x 16 Class 4 Colour



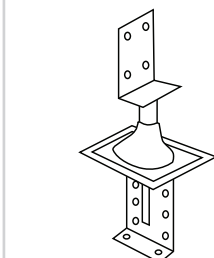
17 M8 x 90mm Galvanised Dynabolts



18 M12 x 115mm Galvanised Dynabolts



19 Extenda Bracket

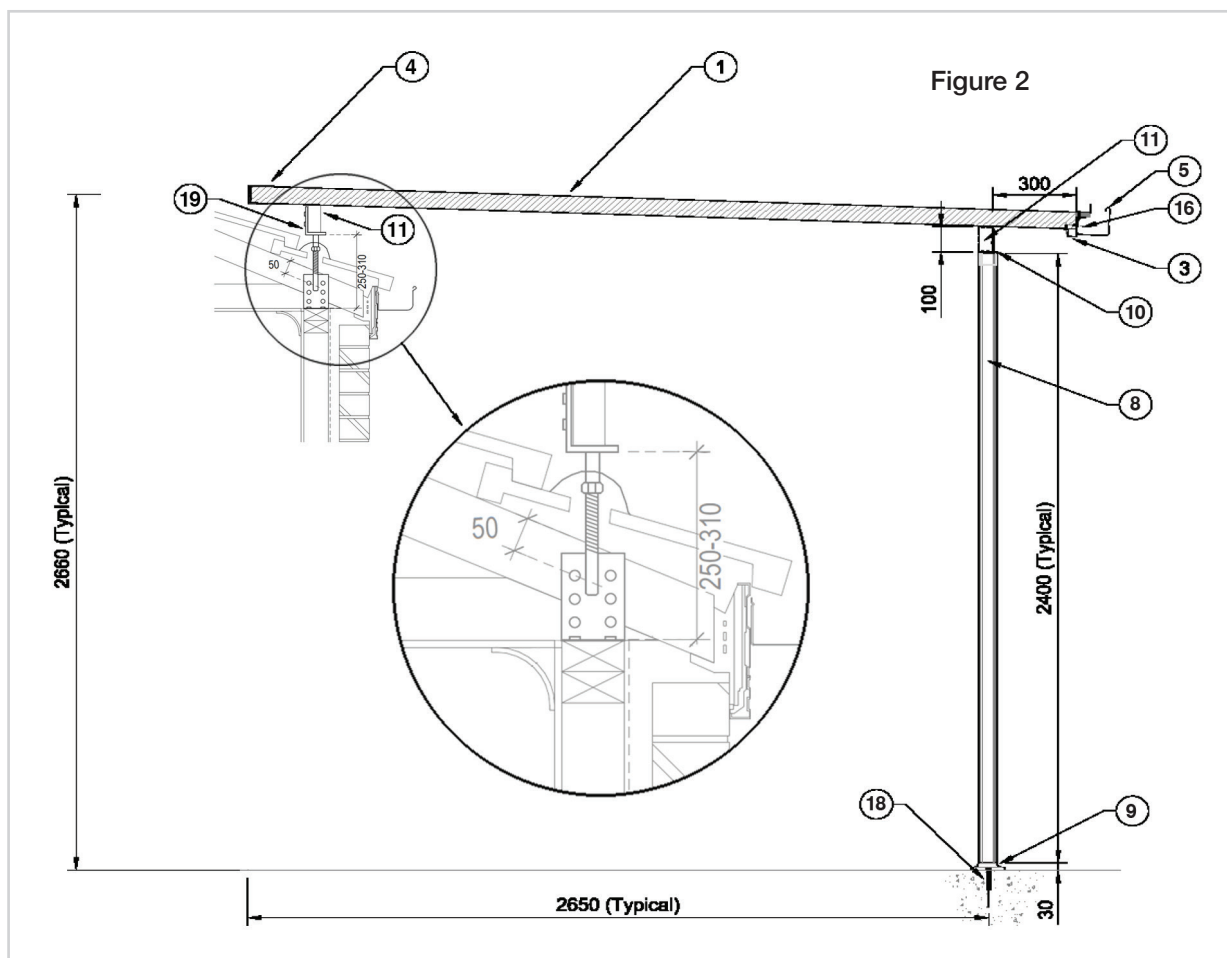


3.0 OVERVIEW OF INSTALLATION PROCEDURE FOR FLYOVER ROOF

The flyover roof is secured to the building roof and concrete slab as shown in Figure 2

The steps to install the flyover roof are generally as follows:

- Install Extenda Brackets (item 19).
- Install rear beam (item 11) to Extenda Brackets.
- Install both post bases (item 9) onto the concrete slab. If required, cut the posts (item 8) to length.
- On the ground, install the beam end caps (item 13) and connect the beam (item 11) to both posts.
- Lift the assembled beam and posts into position on the post caps and temporarily brace the posts.
- Install barge capping (item 4) to one side of the first section of roof panel (item 1).
- Lift the first section of roof panel into the receiver channel and secure.
- Install the second section of roof panel.
- Continue installing the remaining roof panels in the same manner.
- Before installing the last section of roof panel, remove the corrugated overlap by cutting.
- Install the barge capping (item 4) onto the last section of roof panel.
- Install the rear barge capping (item 4).
- Secure the roof panels to the beam.
- Install Z flashing (item 3).
- Install gutter, gutter end caps, and gutter brackets (items 5, 6 & 7).



FLYOVER ROOF

4.0 BEFORE YOU START

Please read these instructions carefully before starting any installation.

The parts description on page 2 identifies all the components supplied and shows where each component is located.

5.0 LOCAL GOVERNMENT AND BUILDER

It is important to check with your Local Government Authority (Council) prior to installation of the flyover roof to confirm any building approvals that may be required and to confirm disposal of roof run off water.

It is the Builders responsibility to ensure the existing structures are adequate to support the Insulspan flyover roof. If required, the Builder must adequately reinforce existing structures to accommodate the additional building loads imposed by the Insulspan flyover roof.

6.0 MARKING OUT THE BACK CHANNEL/FLYOVER ROOF LOCATION

Mark out the overall area of the flyover roof to ensure the location is free of any obstructions.

Ensure there will be no interference with existing door or window openings in the area where the flyover roof will be located against the existing building.

6.1 INSTALLATION OF THE EXTENDA BRACKETS AND REAR BEAM

Remove roofing tiles or lift roof sheets to achieve an opening to fit the Roof Extenda.

Bolt angle bracket with the threaded rod to the selected rafter with 2-M12 bolts.

Provision has been made to bolt the angle section to the existing wall plate to eliminate any uplift.

Replace roof tiles or roof sheet cutting the hole to allow the threaded rod to penetrate the roof.

The Weather Seal is fitted to the top bracket, top bracket is then wound down to the desired height and the lock nut tightened. Mark the position of the Weather Seal on the roofing. Slide the Weather Seal up to apply clear neutral cure silicone to the area marked, press the Weather Seal into position and finish with a bead of silicone to the edges of the Weather Seal to complete the fitting.

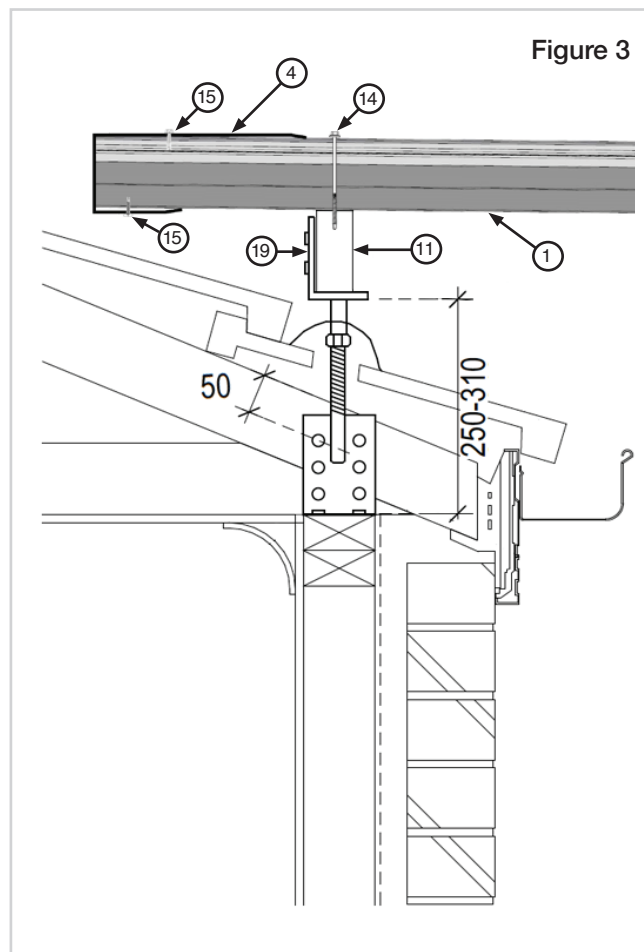


Figure 3 shows the assembly of the wall channel and the flyover roof.

7.0 POSTS/BEAM AND CONCRETE SLAB

7.1 FIXING POSTS TO EXISTING CONCRETE SLAB

Before installing the post bases to the concrete slab, ensure the position of the post bases has been correctly measured.

The post bases (item 9) must be installed and bolted to the concrete slab before installing the posts (item 8)

Measure and mark the position of the post bases on the concrete slab.

Drill holes for the dynabolts (item 18) and bolt the post bases to the slab.

The posts are supplied in standard lengths and are normally cut to a shorter length to accommodate any variation in the slab height or the relative position of the receiver channel.

If required, cut the posts (item 8) to length.

Install the beam end caps (item 13) onto each end of the of the beam (item 11) using wafer head screws (item 16)

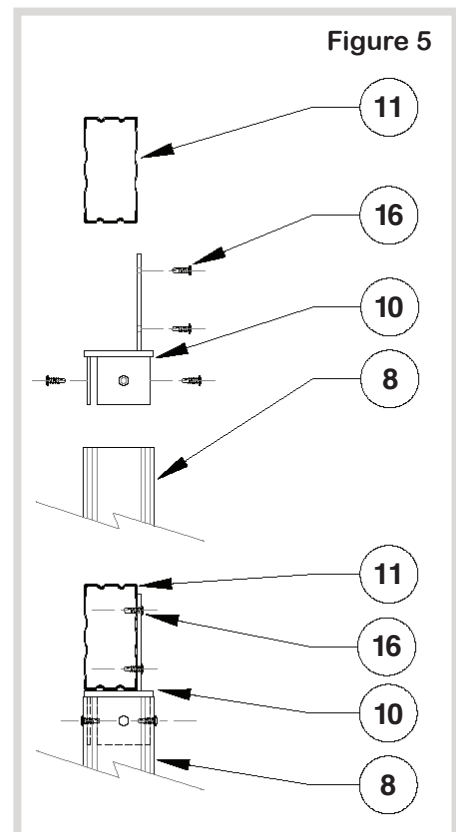
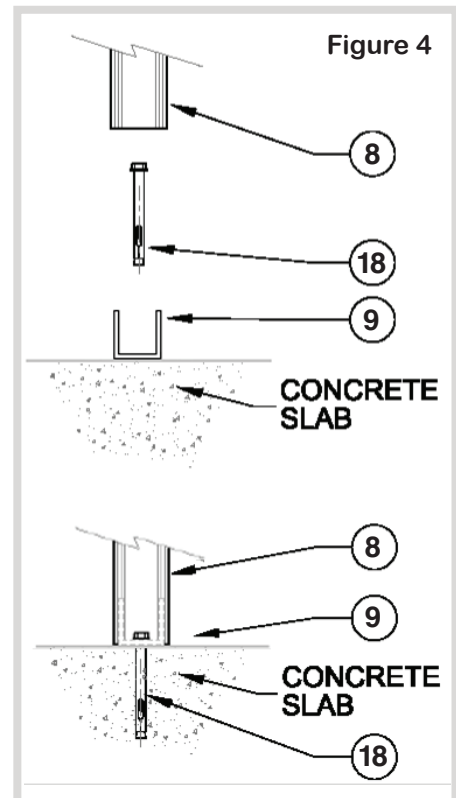
Install the post / beam connectors (item 11) into the beam (item 12) at the correct location and secure using wafer head screws (item 17)

Slide the posts (item 8) over the post / beam connectors (item 10) and secure using wafer head screws (item 16)

Lift the assembled beam and posts onto the post bases and temporarily brace the posts in the correct position.

Secure the posts (item 8) to the post bases (item 9) using wafer head screws (item 16)

The posts, Extenda Brackets and rear beam are now ready to install the roof panels



8.0 INSTALLING THE INSULSPAN ROOF PANELS

Each Insulspan roof consists of 4 separate roof panels which lock together to form a single roof having an overall length of 3050 mm and width of 2400 mm.

Before installing the first roof panel (item 1) into the receiver channel (item 2) the barge capping (item 4) must be fixed to the outside of that roof panel using wafer head screws (item 16).

Ensure the wafer head screws in the barge capping nearest the receiver channel, will not sit inside the receiver channel when the roof panel is assembled into the receiver channel.

Before installing the last roof panel into the receiver channel, the corrugated overlap on that panel must be removed (cut off) to allow installation of the barge capping at that end of the roof panel.

The separate roof panels are locked together as shown in Figure 7 with the corrugated overlap on one side of the panel overlapping the adjacent panel.

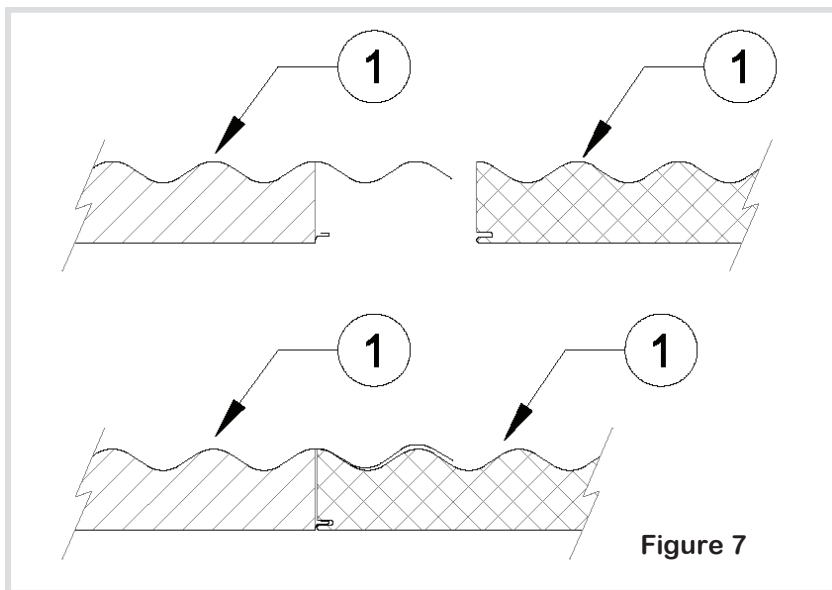
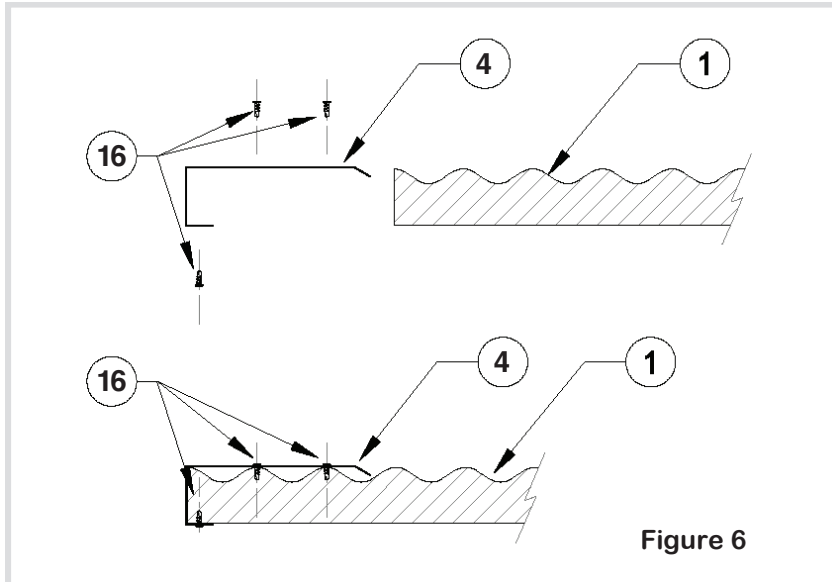
The direction of the corrugation overlap between the panels should be set to accommodate the prevailing weather direction.

The first roof panel (item 1) is installed by fixing one end of the panel into the receiver channel (item 2) and resting the other end of the roof panel on the beam (item 11). To secure the roof panel (item 1) into the receiver channel (item 2) use 2 wafer head screws (item 16) in the top of each roof panel and 2 wafer head screws (item 16) in the bottom of each roof panel (See Figure 3)

The second roof panel is then positioned against the first roof panel by sliding into the mating connection between the two panels as shown in Figure 7. This second panel is then secured to the receiver channel using wafer head screws (item 16). Take care not to damage the roof panel surface when sliding the panels together.

The process is repeated until the remaining roof panels are installed.

After all the roof panels are installed, secure the roof panels (item 1) to the beam (item 11) using screws (item 14) into each ridge of the roof panel.



9.0 INSTALLING 'Z' FLASHING AND GUTTER

After the roof panels have been fixed to the beam, install the "Z" flashing (item 3) using rivets (item 15) as shown in Figure 11

Install the gutter end caps (Item 6) using rivets (item 15)

Install the gutter brackets (item 8)

Install the gutter (item 5) using rivets (item 15)

When installing the gutter, secure the high end first and using a stringline, allow a minimum fall in the gutter of 1 in 500.

Use a neutral-cure silicone to seal the gutter.

