SolarSpan® Patio Installation Guide

Design Considerations for your Solarspan® Roof

1. Ensure your installation meets adequate design criteria e.g. Spans, Wind Loads, Connections, Roof Plumbing etc. See www.solarspan.com.au for details.
2. Solarspan® Patio roofs should be installed at greater than 2 degree roof pitch and have the roof lap facing away from prevailing weather.
3. Solarspan® roofs should always have the roof pans turned up to full rib height at the top end of the panel and turned down approx 20° into the gutter. **A special tool is available from your Solarspan® distributor.** (see photo 1)
4. The underlay rib of every Solarspan® panel should always be trimmed at the gutter to prevent water drawback via capillary action. (see photo 7)
5. If a Solarspan® roof is being attached to an existing house fascia, it is recommended that the existing house gutter be removed and an extension flashing be installed under the existing house roof. (see drawing #SOLSP-F07)- photo 2.
6. Solarspan® Patio roofs should be installed so that any water drained from an existing house roof is allowed for in gutter and downpipe calculations for your new Patio (i.e. size of gutters as well as size and number of downpipes).

   This information can be found in Standards Australia - HB39 – Installation code for Metal roof and wall cladding.

Handling Solarspan® Roof Panels

1. Solarspan® panels are packed to minimise transport damage. Special care should be taken when unloading to avoid damage to the Solarspan® panels. **Key points are detailed on page 1 of this brochure.**
2. When moving Solarspan® panels off the pack always lift the panels vertically.
3. Ensure panels **are *never* dragged** to protect the panel face**.**
4. Solarspan® panels **have sharp edges** - it is recommended gloves are worn when handling panels.

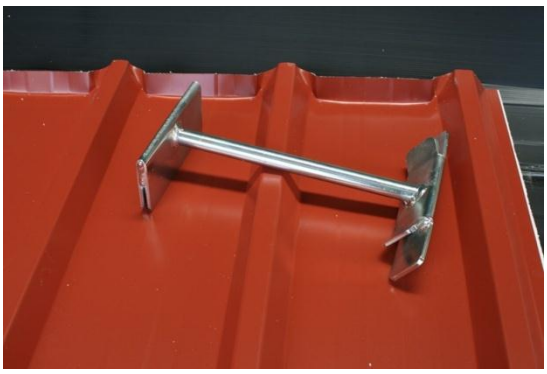

Photo 1 – Turn-up / Turndown Tool

Photo 2 – House roof to Patio flashing

Equipment required to install Solarspan®

1. Prepare a pair of carpenters trestles (or similar work platform) by taping soft material or foam to the top of the trestles
2. Roof Turn-up / Turn-down Tool (available from your Solarspan® distributor)
3. Screw Gun, Tin Snips, Pop Rivet gun, Plastic paint scraper, measuring tape, etc
4. Blankets to cover patio beams etc

Installation of Solarspan® to an existing house Timber Fascia

1. Remove existing house gutter (preferred method)
2. Install an *Extension Flashing* under existing house roof (drawing # SOLSP-F07)
3. Fit *Receiver Channel* up under the previously fitted *Extension Flashing* (drawing #SOLSP-F02) (also fit a side receiver channel and or barge flashings if necessary if starting from an internal corner)
4. **Lift** the first panel from the pack (never drag them or scratching will occur) and place it roof side up on previously prepared carpenters trestles (must have soft material or foam taped to the top surface of trestles)
5. The first overlay rib on the first panel acts as side waterproofing and should be left at full rib height. See drawing#SOLSP-F05
6. **Turn up all roof pans at the top end of the panel to full rib height** with a turn-up tool - available from your Solarspan® distributor (Photos 3-6)
7. **Trim both the overlay rib at the top end and the underlay rib at the gutter end** using tin snips (Photos 7&8). This is to allow panel to lap properly once turned up at the top end and to stop capillary action drawing water back along the underlay leg at the gutter end.
8. Turn the panel over on the trestles and **Remove polystyrene from the gutter cutback** end of the panel with a plastic paint scraper. (Photo 9)
9. Peel back the plastic Corestrip® coating from the ceiling face of the panel approx 20-30mm from edges to allow panel joining and approx 100mm at top end to fit into receiver channel. Peel back sufficient Corestrip® to clear beam support at the gutter end. Corestrip® should be completely removed at completion of the job.

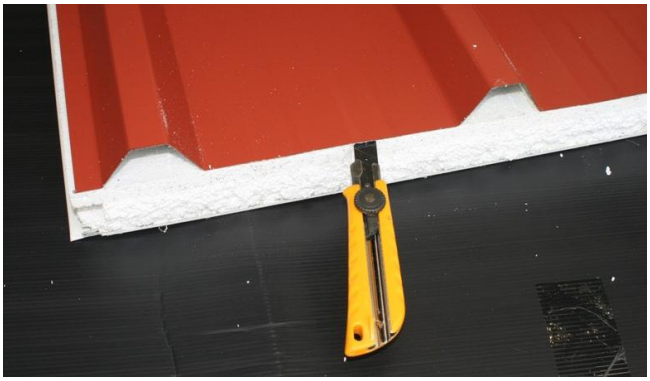

Photo 3 – Cut an EPS wedge from under pan

Photo 4 – Remove EPS wedge

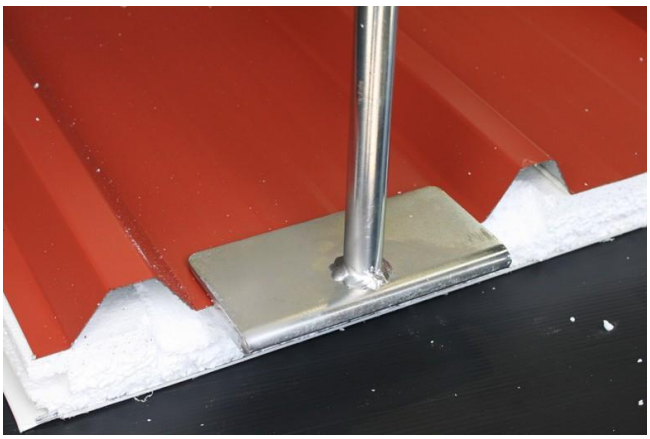

Photo 5 - Place Turn-up Tool centrally over pan

Photo 6 – Turn up pan

10. Turn the panel back over and **<u>Turn down all roof pans at the gutter end</u>** approx 20° using special turndown tool (available from your local Solarspan® distributor). See photo 10.

11. Throw a soft blanket or quilt over the beam / beams that the first panel will be in contact with.

12. Place the cutback end (gutter or low end) on to the covered beam / beams. (fit overlay side of panel into the side barge / side receiver channel if necessary and then push the panel back into the rear receiver channel.

13. Square off this first panel to the critical line required (house or support beam etc) Pin with a screw fixing in the top and underneath receiver channel to hold it square and in place.

14. Prepare the second and subsequent panels as per #1-10.

15. Move the blanket covers over the beam / beams to where the second panel will contact the beam / beams. Screw the gutter end of the first panel in place.

16. To install the second panel, position a person at each end of the panel and place the overlay flap of the roof skin over the previously fitted panel and with the panel at approx 45° pull it down and engage the male interlock into the female interlock of the ceiling side of the first panel.
    To be sure you are successful, the ceiling join should be a neat 'V' join, with little or no flat of the male interlock showing.

17. Slide this second panel towards the back receiver channel. Fix panel top and bottom through the receiver channel ensuring your line is square with House / Beam etc.

18. After all panels are fitted install Fascia Flashings, Gutter, Downpipes and Barge Flashings.

Photo 7 – Trim underlay at Gutter end

Photo 8 – Trim Overlay at Top end

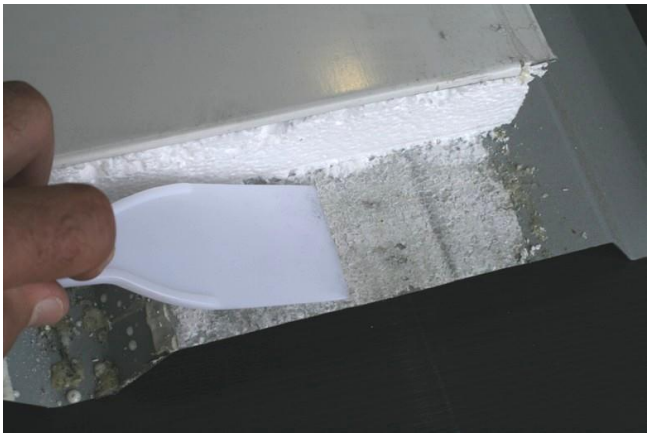

Photo 9 - Remove EPS at gutter end

Photo 10 – Place turn-up tool centrally over pan and turn down 20°