



SolarSpan®

When you plan your new patio or roofing project, SolarSpan® is the building material of the future, especially if comfort, durability and cost are major considerations. The SolarSpan® three in one unit combines roofing, insulation and ceiling in one durable, attractive panel.

SolarSpan® is all about comfort! It is ideal for patios as its insulation qualities give you a cool, comfortable outdoor living area under the Summer sun. For enclosures and larger applications, SolarSpan® provides an effective insulated roof and ceiling that ensures stable temperatures all year round. A SolarSpan® roof is much quieter in the rain than traditional roof sheeting and there are no interior condensation problems.

A building designed using SolarSpan® provides uninterrupted spans that make the best use of available space. SolarSpan® combined laminated structures offer strength and remarkable spanning capabilities, minimising the need for expensive and obtrusive supports.

Its clean, uninterrupted spans create attractive and low maintenance solutions for a wide variety of domestic and commercial applications. It can be transported as a modular system to anywhere required, and it is quick and easy to assemble as a finished product, thus saving time and money.

SolarSpan® allows for design flexibility that is not restricted to a flat rectangular finish. The pre-painted COLORBOND® gives a long lasting durable finish. Its simple, quick, modular design reduces the cost of building.

No rafters and battens are required, allowing for simple construction. It also comes with a 10-Year Warranty if it is constructed according to the manufacturer's instructions.

SolarSpan®'s unique construction provides insulation & strength



Enclosed Patios

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SolarSpan® Colours

SolarSpan® top skin is available in the following range of colours:



Surfmist®



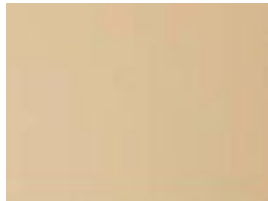
Classic Cream®



Paperbark®



Pale Eucalypt®



Pale Terracotta®

SolarSpan® bottom skin (ceiling) is available in the following colours:



Surfmist®



Surfmist® Deluxe



Commercial Applications

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SolarSpan® Applications

Open Patios

Framing is simple, using metal or timber. This project uses timber posts and beams. Notice the shape – you can have whatever design shape you require. This SolarSpan® patio has the 'Deluxe' finish on the ceiling side. Note the 'Oyster' light fitting with the wiring concealed within the SolarSpan®.

Partly Enclosed Patios

This project started with an existing leaking patio and was replaced with a new SolarSpan® patio.

Gable Roof Patios

For elegance and space these projects show the flexibility of SolarSpan® used in a gable roof design.

Enclosed Patios

These projects show the elegance and versatility of a SolarSpan® fully enclosed patio.



Open Patios



Partly Enclosed Patios



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SolarSpan® Applications

House Rooves

For the ultimate in eco-design choose a SolarSpan® roof for your new home. Ultra Modern multi roof designs can be achieved with SolarSpan®.

Commercial Applications

SolarSpan® is the clever alternative for the switched on specifier. SolarSpan® is suitable for the smallest to the largest commercial project.

Hospitality

SolarSpan® is ideal for open-air cafes, family restaurants or outdoor pergola-style eating areas.



Education & Childcare Facilities

SolarSpan® is the ultimate solution for protecting babies and young adults from rain, hail and the sun's harmful UV rays.



House Rooves



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SolarSpan® Installation

These brief outline hints are not meant to be the only way or even the best way to build your SolarSpan® patio. Your feedback would be welcome. Before you touch the SolarSpan® panels, carry out points #1 – 3.

1. Remove the house gutter. Fit an extension flashing under existing house roof. Fit receiver channel as per engineer specifications up under the previously fitted extension flashing. SolarSpan® panels are 1 metre cover per panel. If you have the rear receiver channel at exactly 1-metre increments cut side flap off as per point 7 below. If you require slightly more width in your patio, leave more of the overflap on and adjust inside the Side Barge/Side Receiver Channel. Discuss this with your supplier, as longer rear receiver will be required.
2. Fit support beam or beams allowing a minimum of 2° pitch (35mm per metre) from the bottom of the receiver channel to the top of the beam/beams.
3. If the side of the patio roof is to start against a wall or fascia of the house, fit the side barge flashing/side receiver channel from the rear receiver channel and out over the beam/beams. If the patio roof is coming off the back wall or fascia only the side barge flashing can be fitted after all of the panels have been fitted.

Now to the SolarSpan® panels.

4. When moving panels off the pack ensure that they are never dragged. Always lift the panel vertically off the pack of panels.
5. Prepare a pair of carpenter's trestles by taping some polystyrene to the top surface.
6. Lift the first panel off the pack and place it with roof side up on the polystyrene taped to the trestles.
7. On the side of this panel trim the overlay off the top sheet leaving approximately 30mm of metal out from the polystyrene. This 30mm is turned up to dam the side of the panel (see Diagram 1).

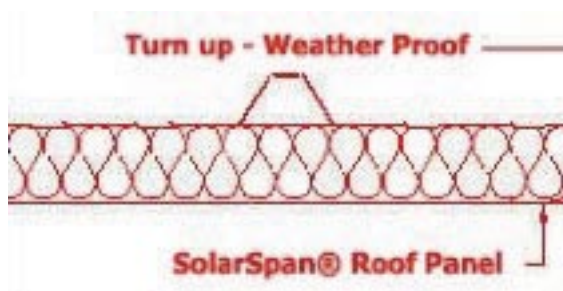


Diagram 1



Partly Enclosed Patios

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8. Turn up or dam the rear pans of the panel with a 'turn up tool' or a tool similar to a wide jaw multigrip or a large shifting spanner (900mm) (see *Diagram 2*).



Diagram 2

9. Throw a soft blanket or quilt over the beam/beams where the first panel will be in contact with the beam/beams.
10. Turn the panel over on the trestles; remove the core strip/plastic completely from the underside of the panel. Have your assistant touch the panel to short out the static electricity.
11. Turn the panel back over (now roof side up) and place the cutback end (gutter or low end) on to the covered beam/beams and fit male joint side of panel into the side barge/side receiver channel (case scenario 3(a)) and push back into the rear receiver channel.
12. Square off this first panel to suit the job (ie. Square off the house or off the beam/beams) and pin with a screw fixing in the top and underneath (receiver channel end) to hold it square and in place.
13. Prepare the second and subsequent sheets as per #7-9. Also, on the overlap flap of the top sheet, cut the corner off at the receiver channel end, so that it does not interfere with the turnup on the top of the previous panel.
14. Move the blanket covers over the beam/beams to where the next panel will contact the beam/beams. With a person at each end of the panel place the overlay flap of topskin over the previously fitted panel and with the panel at approximately 45 degrees pull it down and engage the male interlock into the female interlock on the ceiling side of the previous panel. This may work first time or you may have to adjust your pressure down at each end of the panel to ensure that it happens. To be sure that you have been successful, the ceiling join should be close to a perfect "V" joint, with little or no flat of the male interlock showing.
15. Slide this panel towards the house into the receiver channel. Fix each panel top and bottom as they are fitted into place.



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