

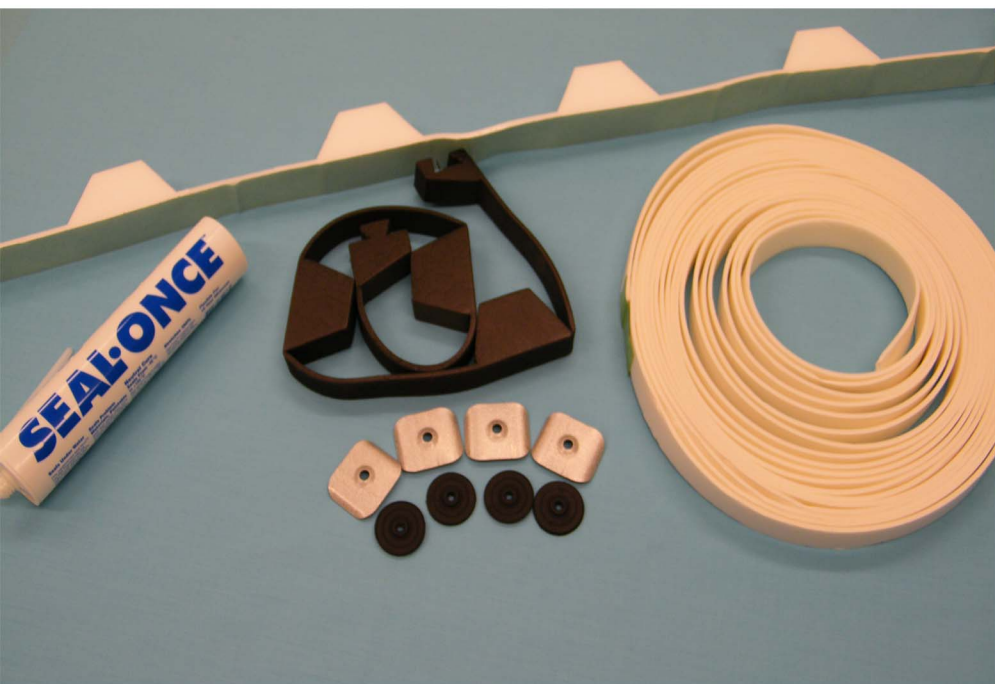
SOLASAFE SS40

INDUSTRIAL POLYCARBONATE SHEETING

This Solasafe information sheet is designed to be used in conjunction with the Ampelite Industrial Installation guide which is available from www.ampelite.co.nz, this guide provides basic information only and further steps should be taken to ensure that the product is installed in the correct and appropriate manner.



Solasafe Components



Solasafe SS40 comes as a complete system including all of the components needed to achieve a water tight and durable installation. Polycarbonate sheeting has far greater expansion and contraction rates than steel roofing and for this reason it is important to use the correct metal profiled washers and polycarbonate compatible sealant. Ampelite can supply the complete system and will not warranty the SS40 sheeting unless it has been installed correctly as per this installation guide.



Side Lap Tape



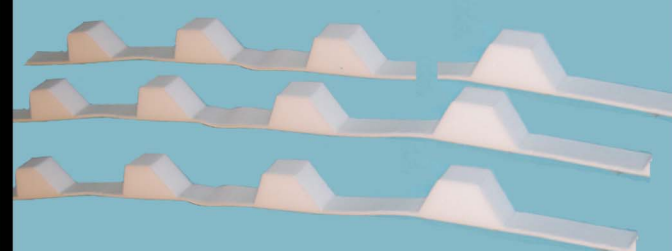
Polycarbonate Sealant



Steel Profiled Washer
EPDM Profiled Washers



Bird Proofing



Purlin Protection Strip

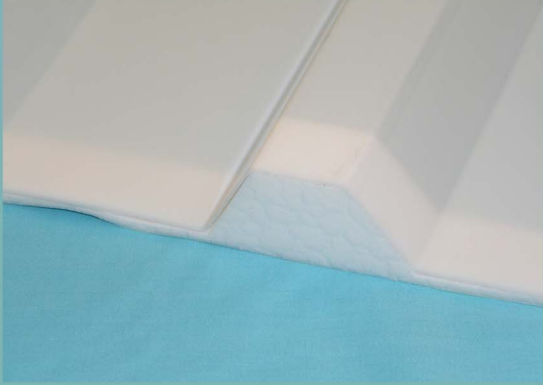
For Further information visit
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SOLA SAFE SS40

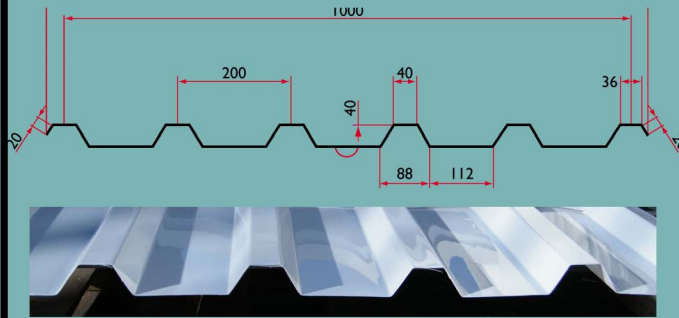
Steps

1. Purlin Protection Strips



Safety mesh must be incorporated under the SS40 roof sheeting. Where the SS40 roof sheeting passes over safety mesh sitting on the supporting purlin, a SS40 profiled foam strip must be placed directly under the SS40 sheeting. This profile strip will protect the SS40 from damage and support the profile when fastened.

2. Side Laps



SS40 has its own profile with an effective cover of 1000mm, which will side lap with most 40mm steel profiles commonly sold in NZ. The metal roof sheets will need to be laid with the correct spacings left for the skylights. Each individual SS40 sheet is manufactured to overlap and be supported by the adjacent roof or wall cladding. A 25x5mm compressive foam tape will need to be applied at the side laps between the steel and SS40 sheeting.

SS40 will need to be side stitched at a minimum of 600mm centres with the SS40 metal profiled washer through the top of the rib

3. End Laps



All end laps must have a minimum of 300mm overlap.

A polycarbonate compatible sealant must be used, Ampelite recommend the use of a bead of sealant at the top and bottom of the fastening point. Use a co-polymer sealant specifically formulated for use with polycarbonate. Incompatible sealants weaken the sheeting and their use voids the warranty.

End lapping should only be applied to roofs with a minimum pitch of 5 degrees.

4. Sheet Lengths



SS40 is available in lengths - 4.8m, 6.0m and 8.1m, end lapping may be required.

5. Washer Assembly



SS40 Polycarbonate sheeting shall be installed using the fastening length applicable to the main cladding and shall be fastened at every rib across the width of the sheet. This is using a unique SS40 Metal profiled washer along with a EPDM washer which ensures the fixings remain watertight.

6. Fixing Procedure

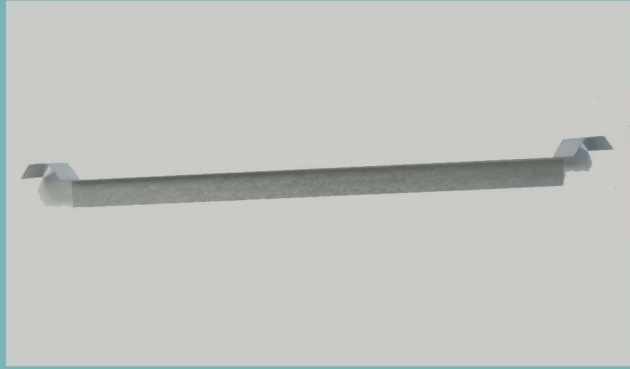


To ensure accuracy Ampelite recommends the following:

- 1- Install screws into the SS40 sheeting in the same manner as metal.
- 2- When completed, remove fixings from fibreglass. Ensure all swarf is removed.
- 3- Using the existing screw hole as a guide, re drill over sizing the hole.
- 4- Re install the fixing screw. (Note how the screw is centrally located in the hole.)
- 5- Do not over tighten the screw putting undue pressure on the SS40 sheet.

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7. Mid-Span Supports



Where a single SS40 sheet has been used as a skylight placed between metal roof sheets, the SS40 sheet may be installed on purlin spacings that exceed Ampelite's maximum span limitations for the sheet by using a mid span support. Where two or more SS40 sheets are laid side by side purlin spacings must be reduced to suit the maximum span stated in the Ampelite spanning chart.

8. Sealing at Flashings



The use end stops are required to prevent wind driven water from running past the flashing and into the building. Typically a metal angle is folded A polycarbonate compatible sealant is then applied where the SS40 sheet meets the metal angle. Alternatively a closed foam strip matching the SS40 profile sheeting can be bonded to the pans or valleys of the sheet with A polycarbonate compatible sealant. Ideally the strip should be fitted at least 100mm behind the turn down of the flashing.

9. Cutting



Should cutting of the SS40 sheet onsite be necessary the use of an circular saw with a small tooth blade suitable for plastic sheeting is recommended. Care should be taken to achieve a cut with minimal damage to the sheet.

For further information on Solasafe contact Ampelite on 0800 AMPELITE or visit us at WWW.AMPELITE.CO.NZ



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