

Specification

The Translucent Sheeting shall be Solasafe SS40 Industrial Polycarbonate Sheeting in a 5 Rib profile as supplied by Ampelite (NZ) Limited. The thickness of the sheet shall be 1.2mm and is only available in Opal colour. SS40 5 Rib profile has an effective cover of 760mm. SS40 will side lap onto most of the 5 Rib roofing profiles commonly available in New Zealand. SS40 Industrial Polycarbonate sheeting 5 Rib profile comes in standard lengths of 4.0, 5.0, 6.0 and 8.0m.

Warranty

A protective co-extruded layer on the outer surface of the sheet forms a barrier which is resistant to the detrimental effects of UV light, minimizing long term yellowing and maintaining mechanical properties. SS40 Industrial Polycarbonate sheeting carries a 15 year warranty in respect of light transmission and water transmission.

Installation

Solasafe SS40 sheeting shall be installed in accordance with Ampelite fixing instructions and with AS/NZS 1562.3:1996, Design and installation of sheet roof and wall cladding, Part 3: Plastic, the requirements of the NZ building code and the NZ Metal Roofing Manufacturers Association Code of Practice.

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Please note these additional important requirements:

Solasafe SS40 5 Rib profile shall be installed using the fastening length applicable to the main roof. The sheeting must be installed by pre-drilling 12mm oversize holes to allow for expansion and contraction. The fixing screws shall be located in the centre of the rib must not be over tightened to an extent that the sheet buckles, allowing water penetration at the seal or sheet overlap. Fixing should be made at every crest at both ends of the sheet, and every crest at intermediate purlins and midspan supports if used. SS40 Polycarbonate sheeting 5 Rib profile shall only be installed using the unique SS40 Metal profiled washer along with an EPDM washer which ensures the fixings remain watertight.

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 the SS40 sheet.
- 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.

Purlin Protection

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 5 Rib profile 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.

Side laps

SS40 5 Rib profile has an effective cover of 760mm, which will side lap with most 760mm cover 5 Rib steel profiles commonly sold in NZ. The metal roof sheets will need be laid with the correct spacing's 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

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 3 degrees.

Mid Span Supports

Where a single SS40 sheet has been used as a skylight placed between metal roofs sheets, the SS40 sheet may be installed on purlin spacing's 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 spacing's must be reduced to suit the maximum span stated in the Ampelite spanning chart.

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 5 Rib 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.

Wall Cladding

Pan fixing is required at each girt, and use of Ampelite grey dome 22 mm weather seals ensures a weather tight seal. Over tightening or flattening the weather seal must be avoided. Fixing shall occur in every pan at both ends of the sheeting, and every other pan at intermediate grits.

End Closure Strip

Foam filler strip is available to suit most profiles. This strip should be installed at the ends of the sheets to exclude dirt, birds and vermin.

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.

Storage

The sheeting should always be stored in a dry and fire safe area. Do not store heavy materials on top of sheets as they may fracture.

Recycling and disposal

Solasafe SS40 sheeting is recyclable and can be disposed of in a land fill.

Non-trafficable

Ampelite translucent sheeting is a non-trafficable material. Sheets should be handled with care to avoid damage to the surface coating (polyester film). Guarantees will not apply to sheeting that has been damaged in handling, or mechanical damage as a result of foot traffic.