

Specification

The translucent roofing shall be Ampelite Dualroof DR20/30 Trafficable Skylight System consisting of a Webglas GC top sheet and a Webglas GC SL3 bottom sheet as supplied by Ampelite (NZ) Limited.

The Dualroof trafficable system is suitable for use where there has been no safety mesh installed under the skylights. The sheet thickness is 2.2mm or 3660 grams per square metre and is reinforced with a heavy gauge woven glass mat which provides continuous strength and protection in every direction. The overall strength is such that wire safety mesh is not required.

Warranty

The Webglas IR4 top sheet of the Dualroof DR20/30 system is coated with a 100 micron Silmar SIL12BE-996 gel coat layer on the outer surface of the sheet forming a barrier which is resistant to the detrimental effects of UV light, minimizing long term yellowing and maintaining mechanical properties. Webglas GC & SL3 Industrial Fiberglass sheeting carries a 25 year warranty in respect of light transmission and water transmission.

Installation

The Ampelite Dualroof DR20/30 system 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.

FOR FULL INSTALLATION DETAILS PLEASE DOWNLOAD A COPY OF OUR INSTALLION GUIDE:

Please note these additional important requirements:

The Dualroof DR20/30 system shall be installed using the fastening length applicable to the main roof. The sheeting must be installed by either using Ampelok self drilling fasteners or T17 fasteners.

When using T17 fasteners then pre-drilling 12mm oversize holes to allow for expansion and contraction is required. The fixing screws shall be located in the centre of the rib and 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 at intermediate purlin's. Dualroof DR20/30 sheeting shall only be installed using Metal profiled washer along with an EPDM washer which fits the profile correctly ensures the fixings remain watertight.

To ensure accuracy Ampelite recommends the following:

- 1- Install screws into the Dualroof DR20/30 system in the same manner as metal.
- 2- When completed, remove fixings from the Dualroof DR20/30 system.
- 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 Dualroof DR20/30 sheeting.

Trafficable System

The sheet thickness is 2.2mm or 3660 grams per square metre and is reinforced with a heavy gauge woven glass mat which provides continuous strength and protection in every direction. The overall strength is such that wire safety mesh is not required.

Side laps

The metal roof sheets will need be laid with the correct spacing's left for the skylights. The Dualroof DR20/30 system 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 Dualroof DR20/30 sheeting.

Side Stitching

It is recommended to install additional side stitching fasteners. These fasteners will bond the Dualroof DR20/30 system and the adjacent sheeting together with appropriate allowances for the differential expansion rates of the materials. Ampelite recommends either Ampelite Lap Stitch, Ampelok stitching fasteners or a T17 coarse treaded self drilling fastener with the same metal profiled washer and seal being use on the primary fasteners these instances.

The Ampelite Lap Stitch is a compressed fastener designed to secure the side laps of fiberglass sheets (fiberglass onto fiberglass). It consists of a neoprene sleeve with an embedded nut, plus a stainless screw with matching washer. When drawn up properly, it offers equal bearing on both sides of the secured sheets and draws them together without cracking or crazing.

When the Dualroof DR20/30 sheeting is lapped onto metal sheeting a T17 coarse treaded self drilling screw with the same metal profiled washer and seal being use on the primary fasteners, fastened into the top of the rib, provides a firm seal in the lapping joint. The table below indicates the recommended spacing for side stitching fasteners.

Profile Rib Height	Max Spacing of Fasteners
30mm and less	450mm
30mm and more	600mm

End Laps

All end laps must have a minimum of 300mm overlap. Ampelite recommend the use of either a 25mm x 5mm closed sell foam tape or a bead of sealant at the top and bottom of the fastening point. End lapping should only be applied to roofs with a minimum pitch of 3 degrees.

Mid Span Supports

Dualroof DR20/30 system may be installed using a mid span support to control sheet flutter in high winds .

Span Information

Please contact your local Ampelite branch with the wind load in Kpa and we will provide you with the correct span data.

Sealing at flashings

The use of end stops is recommended to prevent wind driven water from running passed the flashing and into the building. Typically a metal angle is folded to the height of the profile rib and fastened to the end of the sheet with rivets. Neutral cure sealant is then applied where the Fiberglass sheet meets the metal angle.

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 DR20 sheeting onsite be necessary the use of a 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.

Labeling

Every translucent sheet shall be labeled with the manufactures license number, manufacturer's name, sheet type, date of manufacture, batch number an weight.

Standards

As a minimum the manufacturing process shall comply with AN/NZS 4256 and where this standard conflicts with this specification this specification shall take precedence.

Quality Assurance

The manufacture shall be AS NZS ISO 2000 accredited The manufacture shall be AS NZS ISO 2000 accredited and shall demonstrate that the correct manufacturing process has been followed and that the translucent sheet is within the specified tolerances.

Approved Manufacture

Ampelite (NZ) Ltd

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Attention: Kerry Andrew



Offices: Victoria, New South Wales, Queensland, South Australia, Western Australia, Thailand, Malaysia & China

