

CLASS 1

Building Product Information Sheet

Product name:

Webglas S-996

Product line (the product line from which the product is customised):

Webglas S-996

Product description and its intended use (measurements, materials, usage):

Webglas S-996 is a trafficable corrosion resistant fibreglass profiled sheeting, providing its worth in buildings where steel and other roofing or wall cladding materials deteriorate or corrode at an unacceptable rate. The sheet thickness is 2.2mm or 3660 grams per square metre and is reinforced with a heavy gauge weaved glass mat which provides continuous strength and protection in every direction. The overall strength is such that wire safety mesh is not required. This is of particular importance in chemically aggressive and corrosive environments where safety mesh can be eroded and traditional steel cladding can quickly deteriorate.

Product identifier (if applicable):

Webglas S-996

Place of manufacture: Aotearoa New Zealand Overseas

Legal and trading name of the manufacturer(s):

Ampelite NZ Ltd

Legal and trading name of the importer (if applicable):

Address for service:

STREET NAME 79 Captain Springs Road

SUBURB Onehunga

CITY, COUNTRY Auckland, New Zealand

POSTCODE 1061

Website:

www.ampelite.co.nz

Email address:

sales@ampelite.co.nz

Phone No. (if applicable):

0800 267 354

NZBN (if applicable):

9429038523199



Relevant Building Code clauses:

The product will, if used in accordance with the Ampelite installation and maintenance requirements, assist with meeting the following provisions of the building code for a period of 20 years:

- Clause B2 Durability: Performance B2.3.1
- Clause C3 Fire affecting areas beyond the fire source: Buildings C3.3
- Clause E2 External moisture: Performance E2.3.1, E2.3.2
- Clause F2 Hazardous building materials: Performance F2.3.1
- Clause G7 Natural Light

Statement on how the building product is expected to contribute to compliance:

Test information available from Ampelite (NZ) Ltd and past history of use of Webglas GC products in New Zealand indicate that, provided the product use and maintenance is in line with the guidelines contained in the current literature referenced, Ampelite S-996 gel coated roofing & wall cladding systems can be expected to meet the performance criteria in clause B2, C3, E2, F2 and G7 of the New Zealand Building Code, for a period of not less than 20 years.

The product has and can make available the following additional evidence to support the above statements:

Wonderglas GC (now Wonderglas S-996) has been tested at the Allunga Exposure Laboratory in Allunga QLD, a world renowned testing facility. All methods of testing are performed to strict Standards. The Altrac system (in which the sample tracks the sun), is generally accepted to have a 5 to 1 weathering value. The Wonderglas S-996 result was a light loss of 22% over a period equivalent to 20 years exposure. The test samples still displayed a very smooth, glossy surface with no fibre show at all.

AS1562.1: 1992 – Design and installation of sheet roof and wall cladding, Part 1: Metal Concentrated Load Tests. (This code is for metal roofing and is not required for plastic sheeting; however in the interest of safety Ampelite initiated the study). Tests conducted by the CSIRO.

Building, Construction and Engineering in accordance with AS4040.1: 1992, “Methods of testing sheet roof and wall cladding – Part 1: Resistance to concentrated loads”. Report DTS522 dated 24 August 1998 provides details of concentrated loads for various Webglas GC profiles over varying spans.

AS/NZS1562.3: 1996, “Design and installation of sheet roof and wall cladding, Part 3: Plastic”, Section 5.2 “Resistance to wind forces”. Limit State Testing for resistance to wind loads has been performed as per the requirements of this standard.

AS4040.2: 1996 “Methods of testing sheet roof and wall cladding – Part 2: Resistance to wind pressures for non-cyclone regions”. Tests conducted by Vipac Engineers and Scientists Ltd. Vipac Report Series 360176_TST_2949_00 dated February to June 2004 details varying Webglas GC profiles over varying spans determining strength limit state for non cyclone regions.

Cyclonic Wind Loading Tests: Extensive testing regarding fixings and Webglas GC within cyclonic conditions to 10,000 cycles required for approval within Darwin has also been performed. The University of Adelaide EngTest, The Department of Civil & Environmental Engineering details Cyclonic Wind Loading Tests to comply with the requirements of the Building Code of Australia, Northern Territory Annexure.

References for the testing include:

- options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)
- standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured
- physical properties of the building product
- how the building product is intended to be used.

Limitations on the use of the building product:

Webglas S-996 is not to be used in instances where;

- Purlin spans are beyond the products capability in relation to the wind pressure.
- A fire rating is greater than Group 3.

Design requirements that would support the use of the building product:

Webglas S-996 is great for commercial and retail applications where a trafficable transparent solution is required. Webglas S-996 can be used in buildings where steel and other roofing or wall cladding materials deteriorate or corrode at an unacceptable rate. With the choice of transparent or solid colour finishes, Webglas S-996 can be a solution to a variety of design requirements where steel roofing and other materials are not suitable.

Installation requirements:

Webglas S-996 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.

FOR FULL INSTALLATION DETAILS PLEASE DOWNLOAD A COPY OF OUR INSTALLION GUIDE:
<https://www.ampelite.co.nz/media/C/Ampelite-Industrial-Sheeting-Installation-Guide.pdf>

Maintenance requirements:

Ampelite Natural Lighting sheets (PVC Polycarbonate and Fiberglass) require a minimum level of maintenance to guarantee their best possible performance.

This maintenance should include, but not be limited to, keeping surfaces clean and free from prolonged contact with debris and moisture. The sheets should be washed at least every 12 months with a soft brush and a mild household detergent, like dish washing liquid to prevent and remove any dirt build up.

Do not use spray-on moss and mould type cleaners, or other cleaners that are left on the surface over time to work. These types of cleaners can damage the surface coatings applied to Ampelite Natural Lighting sheeting, causing early failure.

It is important that Ampelite Natural Lighting sheets are thoroughly rinsed after cleaning to ensure no residue is left on the sheeting.

Avoid chemicals, paint, adhesives and other synthetic materials as this can also cause damage.

Washers and fasteners should be monitored regularly for signs of deterioration. This can help prevent any leak points or staining of the sheeting.

Do not wash with any high-pressure appliance, such as water blasters, as these can also damage the sheeting.



Is the building product/building product line subject to warning or ban under section 26?:

Yes No

If yes, description of the warning or ban under section 26:

Date:

06/12/2023 M | Y | Y