

Trafficable fibreglass profiled sheet for corrosive or chemical aggressive environments

[View miproducts listing](#)



Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



Ampelite confirms that this minimum level of assurance has been met or exceeded by the following:



The following information has been provided by Ampelite demonstrating how this product complies with the [Building Product Information Requirements](#).



masterspec partner

Technical Statement

Product Class

CLASS 1

Product Description

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 3660grams 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.

Scope of use

Webglas S-996 is suitable for commercial and retail applications where a trafficable transparent solution is required.

Webglas S-996 can be used in buildings where there is a corrosive or aggressive environmental conditions 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.

Not suitable for:

Purlin spans are beyond the products capability in relation to the wind pressure.

A fire rating is greater than Group 3.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(b)

The top (weather side) is gel coated with a specially formulated highly UV resistant resin. This part of the process is identical to Ampelite Webglas GC premium grade sheeting and provides virtually undiminished performance for 20 years.

Wonderglass GC (now Wonderglass 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 Wonderglass S-996 result was a light loss of 22% over a period equivalent to 20 years exposure.

- **Clause C3 Fire affecting areas beyond the fire source:** Performance C3.4(a), C3.7
ISO 5660 Fire testing to achieve a Group 3 in accordance to C/VM2. Fire tests available from Ampelite on request.

- **Clause E2 External moisture:** Performance E2.3.1, E2.3.2

Surface erosion is eliminated and covered by a 20-year Warranty. Low surface erosion also improves weathering properties. The gel-coated surface provides an almost impenetrable barrier and is warranted against water penetration for 20 years.

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

Company Contact Details



Company: Ampelite
Physical Address: 79 Captain Springs Road
Onehunga
AUCKLAND
Postal Address: PO Box 13090
Onehunga
AUCKLAND
Telephone: 64 09 634 5366
Fax: 64 09 622 2060
Email: ampauck@ampelite.co.nz
Website: www.ampelite.co.nz

Webglas GC profiles over varying spans determining strength limit state for non cyclone regions.

- **Clause F2 Hazardous building materials:** Performance F2.3.1

Webglas GC now uses Ampelite's Proprietary SL Group 3 'Bromine Free' Fire Retardant Resin System.

- **Clause G7 Natural light:** Performance G7.3.1, G7.3.2

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.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

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 to meet wind design span tables provided.

Manufactured to AS/NZS 4256 parts 1 & 3. Refer to Ampelite for test data.

ISO 5660 Fire testing to achieve a Group 3. Fire tests available from Ampelite on request.

Supporting Evidence

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

Use in Service History

25 years use in NZ environments

Product Criteria

Design requirements

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.

See Scope and Limitations.

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

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.

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.

Warrantees

20 years limited warranty

Company Product Information

Environmental

N/A

Relationships

Technisearch Ltd 954-27504

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Ampelite

Business Email:

ampauck@ampelite.co.nz

Company Website:

www.ampelite.co.nz

Contact Number/s:

+64 09 -634 5366

Product Identifier

WEBGLAS S-996

Warnings

This product has no warnings associated with it.



Date last validated: **05 August 2024**



Date last updated: **05 August 2024**

Disclaimer: The Product Technical Statement (PTS) template is copyright to Construction Information Limited. However the content of this PTS is the responsibility of the product manufacturer/supplier. Refer to the miproducts Terms and Conditions