

CLASS 1

## Building Product Information Sheet

Product name:

Cool-Lite IR

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

Wonderglas S-996

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

Cool-lite IR is premium grade sheeting with the same highly UV-resistant gel-coated surface as Ampelite Wonderglas S-996 (formerly called Wonderglas GC). Cool-lite IR filters out 99% of harmful ultraviolet radiation but allows a high level of visible light. At the same time, it reflects out a large percentage of infra-red waves, reducing heat so your building stays cooler.

Product identifier (if applicable):

Cool-Lite IR

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 Wonderglas S-996 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 25 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.

ISO5660 (2002), "Reaction to fire test". Fire Group 3 Rating Testing conducted by Centre of Advanced Composite Metals, Engineering, University of Auckland.

NZ Metal Roofing Manufacturers Association Inc. (NZMRM) Code of Practice

- *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:

Cool-Lite IR is not to be used in instances where;

- Trafficability is required.
- 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:

Cool-lite IR is a great clear light solution where heat control and high light transmission is important. Cool-lite IR controls heat and saves on energy costs.

Cool-lite IR filters out 99% of harmful ultraviolet radiation and allows a high level of the visible light spectrum to be transmitted into your building so colours appear brighter and clearer, while at the same time reflecting out a large percentage of the infra-red waves, reducing heat so your building stays cooler.

## Installation requirements:

Cool-lite IR 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