

# Wonderglas S-996

GEL COATED POLYESTER SHEETING

## PROVEN

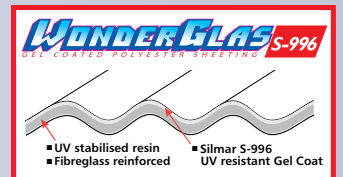
**Ampelite** introduced Wonderglas GC (now Wonderglas S-996) gel coated sheeting to New Zealand in 1995 expressly to combat our very harsh environments. Wonderglas S-996 continues to be a preferred solution for commercial buildings throughout the country. Wonderglas S-996 is recommended for commercial and retail applications where excellent long term light transmission is required.

### Proven:

Ampelite uses the superior Silmar S-996 Gel Coat on all Wonderglas S-996 (formally Wonderglas GC) product. Silmar S-996 was specifically designed as a clear Gel coat for roofing. This highly UV resistant Gel coat provides Wonderglas S-996 (formally Wonderglas GC) with the ultimate impenetrable barrier that reduces surface erosion and loss of light transmission to negligible proportions. Since its introduction, Wonderglas S-996 (formally Wonderglas GC) has been proven on thousands of installations throughout New Zealand.

### Tested:

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 GC (now 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.



### Unchanged:

The composition of our Gel coat and the basic manufacturing process has not changed since Wonderglas GC (now Wonderglas S-996) introduction into the New Zealand market in 1995, making it the oldest and most dependable Gel coated roofing sheet in the market.

- Surface erosion (fibre show) is eliminated.
- Superior resistance to yellowing and hazing.
- Minimal loss of light transmission over life.
- 99% protection from UV rays.
- More cost effective over the life of the building.

# AMPelite

*makes light work!*



**Wonderglas S-996 (formally Wonderglas GC) has excellent stability**

**Materials Expansion Comparison. 0°C to 40°C temperature variation. Sheet length 12 metres.**

	Fibreglass	Polycarbonate	Steel	Aluminium
Thermal expansion	14.4 mm	32.4 mm	5.8 mm	11.5 mm
Thermal co-efficient	$3.0 \times 10^{-5}$ cm/cm °C	$6.75 \times 10$ cm/cm °C	$1.2 \times 10^{-5}$ cm/cm °C	$2.4 \times 10^{-5}$ cm/cm °C

**Spanning**

Series	1800	2400	3050	366
Corrugated	1000	1200	1300	1400
Six Rib	1000	1200	1300	1400
5-Rib	1200	1500	1700	1900
Trimline	1200	1500	1700	1900
Kliplok 406	1200	1500	1700	1900

1.5Kpa Unit mm

**Physical Properties**

Tensile strength	80 MPa (Min. requirement 50 MPa)	Thermal expansion	$3.0 \times 10^{-5}$ cm/°C
Impact strength	8 Joules	Thermal conductivity	158 watt/m°C
Shear strength	90 MPa	Water absorption	.2% in 24 hours/26°C
Modulus of elasticity	5500 MPa	Curved roof radius – Corrugated & 5 rib	
Compressive strength	135 MPa	2400g/m <sup>2</sup> minimum radius: 4.0 metres	
Flexural strength	150 Mpa	Recommended service temperature:	
Specific gravity	1.45	range -20°C to +95°C	

**Light. Series 1800 (1.1 mm)**

Colour	Light Transmission (typical)	Opal	60%
Clear	80%	Grey	33%

**Specification:**

The translucent sheeting shall be 'Wonderglas S-996' fibreglass reinforced polyester with 100 micron thick gel coat as manufactured by Ampelite NZ Limited to comply with AS/NZ 4256 parts 1 & 3: 1994. The weight of the sheet shall be \*.....mm/gsm and be manufactured to conform with the nominated profile and colour. Sheeting shall be installed in accordance with Ampelite fixing instructions and comply with the design loading requirements of NZ4703-1992 and NZ36041-1990.

\*Insert actual sheet weights required.

**Ampelite Quality:**

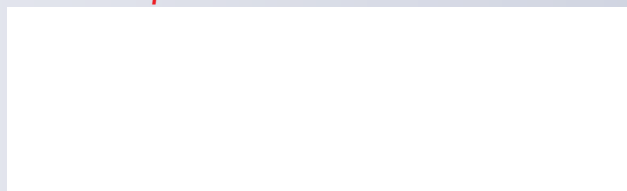
Wonderglas S-996 (formally Wonderglas GC) premium grade glass reinforced gel coated polyester sheeting is manufactured to AS/NZS 4256.3 1994 Plastic roof & wall cladding materials.

Ampelite is a Quality Endorsed Company complying with AS/NZS ISO 9000-2000, Licence SMK B20116.

**INSTALLATION:**

Please refer to installation guide on website at [www.ampelite.co.nz](http://www.ampelite.co.nz)

**Available from**



79 Captain Springs Rd, Onehunga, Auckland  
Freephone: 0800 AMPELITE (0800 267 354)

PROVEN PERFORMANCE