



# WONDERCLAD GC

SOLID COLOUR FIBREGLASS CLADDING

New Zealand's leading manufacturer of industrial fiberglass sheeting introduces Wonderclad GC solid colour fiberglass cladding specially designed for areas where corrosion resistance is vital. Wonderclad GC is backed by a 25 year warranty.



### SUPERIOR FEATURES OF WONDERCLAD GC

- Full range of colours available
- Available in a range of standard thicknesses from 1.1mm to 2.6mm.
- The top (weatherside) is gel coated with a specially formulated highly UV resistant resin.
- The gel coated surface provides an almost impenetrable barrier and is warranted against water penetration for 25 years.
- Good resistance to a range of commonly used chemicals.

### APPLICATIONS

- Fertilizer and Agricultural Chemical Plants
- Corrosive Chemical processing
- Petrochemical environments
- Wastewater Treatment
- Marine Environments
- Mining Industry
- Paper and pulp manufacturing
- Salt extraction and desalination plants
- Power Stations



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Wonderclad GC and a solid colour fiberglass sheet specifically designed for areas where corrosion resistance is vital. Complete buildings can be clad and roofed with "Wonderclad GC" which is 100% opaque. The special resin technology used in the highly UV resistant surface coating and sheet, is the same as that used for Ampelite's premium grade "Wonderglas GC", now very widely used in major projects around both New Zealand and Australia. Wonderclad GC therefore provides a maintenance free roofing and cladding guaranteed for a specific lifetime. For extreme environments, where high levels of acids or alkaline may occur, "Wonderclad GC+" which incorporates vinyl ester resins, will provide additional protection.

## Suitable for the following profiles

Wonderclad is available to suit the commonly manufactured profiles in New Zealand and is manufactured to comply with AS/NZS4265.3.1994. Wonderclad is suitable for curved roof applications. Curved roof radius to suite 1800g/m<sup>2</sup> corrugated and 5 Rib minimum radius 3.8 metres. 2400g/m<sup>2</sup> corrugated and 5 Rib minimum radius 4.0 metres.

## Specification

The Translucent Sheeting shall be Ampelite Wonderclad industrial quality sheeting, manufactured by Ampelite New Zealand Ltd, to comply with AS/NZS4265.3.1994. The gauge/weight of the sheet shall be \_\_\_\_\_mm/gsm and shall be manufactured to conform with the nominated profile and colour. The sheeting shall be installed in accordance with Ampelite's fixing instruction or comply with the design loading requirements of NZ4703-1992 and NZ36041-1990.

## Installation

1. Pre-drill oversize holes to allow for expansion and contraction of sheet.
2. Apply an Ampelite protective Fibreglass strip between the mesh and Fibreglass sheet at each purlin.
3. Apply a protective foam or fibreglass strip between mesh and fibreglass sheet at each purlin.

## Spanning Capacity (1.5 kpa)

Series	1800/1.1mm	2400/1.4mm	3000/1.7mm
Corrugated	1000	1200	1300
6 Rib	1000	1200	1300
5 Rib	1200	1500	1700
Trimline	1200	1500	1700
SS900/Topspan	1600	1800	2000
LT7	1400	1700	1800
BB900	1400	1700	1900
DD400/BB400	1200	1400	1600

## Available from



4. For endlaps, apply a self adhesive closed cell foam strip directly over the purlin between the overlapping sheets.
5. Store sheets in a dry and fire safe area. Do not store heavy materials on sheets as they may fracture.
6. Pan fixing is recommended for cladding. Fixing shall occur in every pan at ends and every other at intermediate.

Ampelite sheeting matching clip-fixed deck profiles should be side lapped with overlaps on both sides. Sheet should be installed the same as positive fixed profiled roofing.

**IMPORTANT:** Ampelite sheeting should be installed by pre-drilling over size holes to allow for contraction. The basic calculation shall be 0.75mm per lineal metre, plus the shank diameter of the fastener.

**EXAMPLE:** 10 mtr sheet - 10 x 0.75 + 4mm (fastener) = 11.5mm per drilled hole.

**NOTE:** All installation should comply with the design loading requirements of NZ4203-1992 and NZ3604-1990.

## Physical Properties

Tensile strength	80MPA (min requirements 55 MPA)
Impact strength	8 Joules
Shear strength	90 MPA
Modules of elasticity	5500 MPA
Compressive strength	135 MPA
Flexural strength	150 MPA
Specific gravity	1.45
Thermal expansion	3.0 x 10 <sup>-5</sup> cm/C
Thermal conductivity	0.158 watt/mC
Water adsorption	.2% in 24 hrs/26C
Service temperature	Range 20C to 95C

## Colour range

Wonderclad comes standard in: Titania, Gull Grey and Desert Sand.

Other colours can be produced to order, please contact your local Ampelite office for minimum quantities.



Freephone 0800 267 354 [www.ampelite.co.nz](http://www.ampelite.co.nz)

Head Office 79 Captain Springs Road, Onehunga, Auckland. Tel. 09 634 5366 Fax 09 622 2060

Central 16 Noel Rodgers Place, Palmerston North. Tel. 06 356 5936 Fax 06 356 5937

South Island 29 Halwyn Drive, Hornby, Christchurch. Tel. 03 349 4674 Fax 03 349 2873