

Duraclad®

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Duraclad® solid colour fiberglass cladding specially designed for areas where corrosion resistance is vital and long term sheet durability is essential.

Superior features of Duraclad®

- Available in a range of colours
- Available in a range of standard thicknesses from 1.7mm to 2.6mm
- Premium grade glass reinforced gel coated polyester
- Gel coated surface warranted for 25 year
- Good resistance to a range of commonly used chemicals

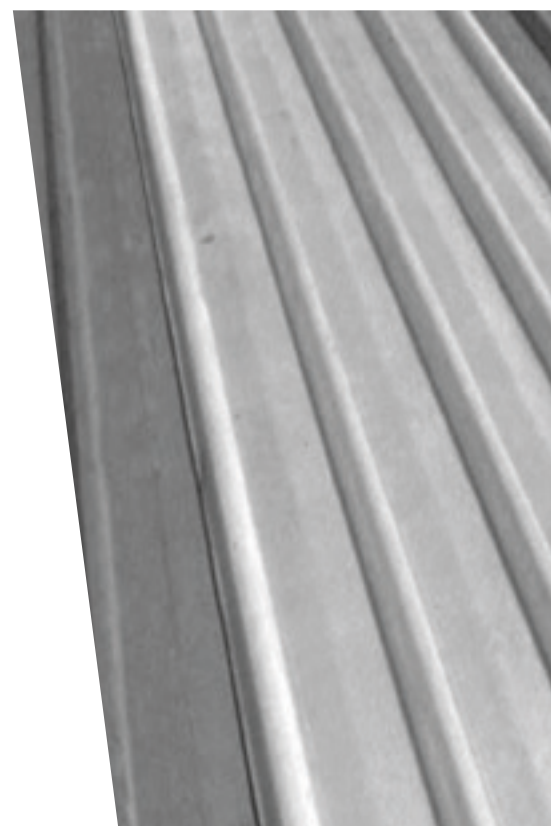
Applications

- 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

Duraclad® is available in all commonly manufactured roof profiles. It is suitable for curved roof applications. Curved roof radius to suite. 1.4mm (2400g/m²) corrugate and Styleline minimum radius 4.0 metres.

Specification

Easy to specify - callup Duraclad® manufactured to comply with AS/NZS 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 fixing holes to allow for expansion and contraction of sheet.
2. Apply the Duraclite purlin protection strip between the safety mesh and Fiberglass sheet at each purlin.
3. For endlaps, apply a self adhesive closed cell foam strip directly over the purlin between the overlapping sheets.
4. Store sheets in a dry and fire safe area. Do not store heavy materials on sheets as they may fracture.
5. Pan fixing is recommended for cladding. Fixing shall occur in every pan at ends and every other at intermediate.

Duraclad® sheeting matching clip-fixed deck profiles should be side lapped with overlaps on both sides. Refer to Dimond's website for more fixing information.

Important: Duraclad® sheeting should be installed by pre-drilling over size holes to allow for expansion and contraction. The basic calculation shall be 0.75mm per lineal metre, plus the shank diameter of the fastener. Example: 10 mt sheet - $10 \times 0.75 + 4\text{mm (fastener)} = 11.5\text{mm per drilled hole}$. Note: All installation should comply with the design loading requirements of NZ4203-1992 and NZ3604-1990.

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Internal purlin span for 1.5 kPa U.L.S (mm)

Series	1.7mm (3050 g/m ²)
Corrugate	1300
LT7	1800
Brownbuilt 900	1900
Styleline/Veedek	1700
DP955	1600
Dimondek 400	N/A

U.L.S = Ultimate limit state capacity

Physical properties

Tensile strength	80MPa (min requirements 55 MPa)
Impact strength	8 Joules
Shear strength	90 MPa
Modulus of elasticity	5500 MPa
Compressive strength	135 MPa
Flexural strength	150 MPa
Specific gravity	1.45
Thermal expansion	$3.0 \times 10^{-5} \text{ cm/}^{\circ}\text{C}$
Thermal conductivity	158 watt/m ² C
Water absorption	.2% in 24 hrs/26°C
Service temperature Range	-20C to +95°C

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