

BRC

Roll-Formed

Products

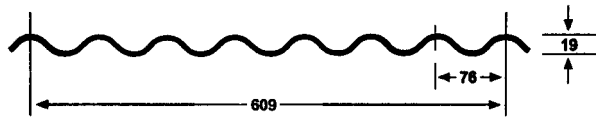


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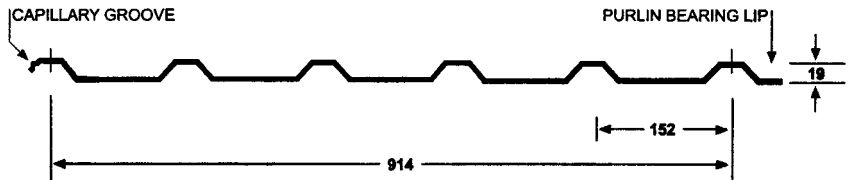
Rev.Date: 2001/06/25
Rev. No: 1.0
BRC-QD-030

CLADDING

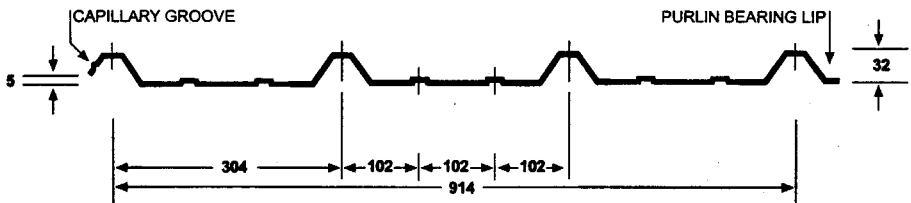
8/3 Panel Profile



"U" Panel Profile



"R" Panel Profile



**Profiles are available
in Permaclad and Colourclad**

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PERMACLAD

Technical Data Sheet

I. Product Description

Permaclad is a steel substrate coated on both sides with an alloy of Aluminium and Zinc by a hot-dipping process.

II. Technical Characteristics

Quality:	Structural quality steel base to ASTM A792M, Grade 345A
Min. Tensile strength:	450 N/mm ²
Min. Yield strength:	345 N/mm ²
Min. Elongation:	12% in 50mm

Coating characteristics

Coating composition:	55% Al, 43.4% Zn, 1.6% Si
Min. coating mass:	AZ185 - 185 g/m ² each side (25 microns/side)
Surface finish:	smooth, spangle
Surface protection:	Chromated, resin-coated
Specific weight:	3.75 g/cm ³

Formability

Very good behaviour

- in bending
- in roll-forming
- in drawing

High temperature behaviour

- no discoloration to 315°C (600°F)

Heat reflectivity

- similar behaviour to aluminized steel up 315 C°(600 F)°

Painting

- very good paintability
- excellent adherence

NOTE: Resin coated finish can be painted immediately however, if any oil appears on the surface this should be cleaned with a mild detergent solution. Recommended paint is a water based acrylic such as Harris Permaclad roof paint.

Weldability

similar behaviour to galvanised steel for:

- spot-welding
- seam resistance welding
- arc welding, etc.

NOTE: 75% less fumes generated, as compared with galvanised steel.

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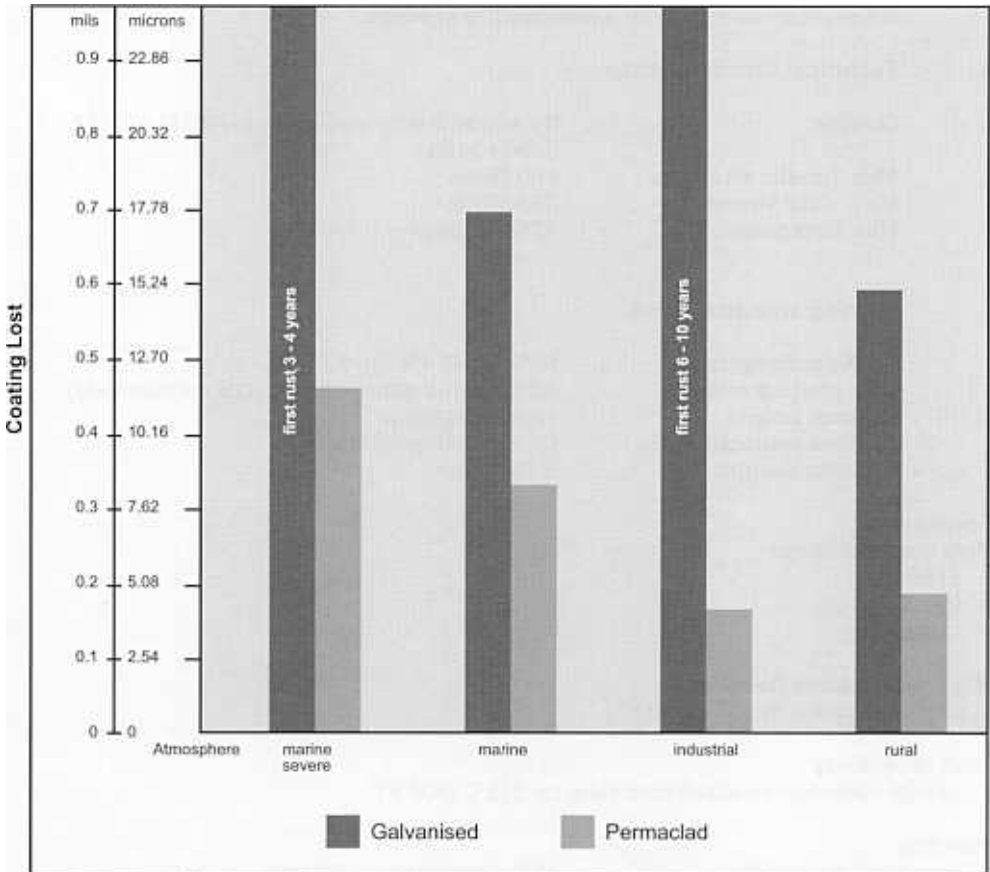
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PERMACLAD

III. Corrosion Resistance

Corrosion losses of PERMACLAD and GALVANISED sheets after 13 years exposure in the atmosphere (average top and bottom surface)



Recommendations

- Avoid contact with lead, copper, copper salts, treated timber.
- For transport, handling and storage, take precautions as for galvanised steel sheet.

NOTE:

- Corrosion resistance is 2-6 times greater than for galvanised sheets with equal coating thickness.

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COLOURCLAD

Technical Data Sheet

I. Product Description

Colourclad is an aesthetically pleasing sheet product that is comprised of a steel substrate coated on both sides with an alloy of Aluminium and Zinc, a corrosion inhibitive primer coat and an oven cured paint finish.

II. Technical Characteristics

Quality:	Structural quality steel base to ASTM A792M, Grade 345A
Min. Tensile strength:	450 N/mm ²
Min. Yield strength:	345 N/mm ²
Min. Elongation:	12% in 50mm

Coating characteristics

Coating composition:	55% Al, 43.4% Zn, 1.6% Si
Min. coating mass:	AZ185 - 185 g/m ² each side (25 microns/side)

Primer coating 1: Min. 5 microns Epoxy primer on each side

Paint Finish 1: 20 microns modified Polyester on each side (light colours)

Primer coating 2: Min. 5 microns Polyurethane on each side

Paint Finish 2: 20 microns Poly Vinylidene di-flouride (PVF₂) on each side (dark colours)

Specific weight: 3.75 g/cm³

IV General Properties

- Excellent formability
- Excellent chemical resistance
- Excellent resistance to abrasion and erosion
- Very good resistance to corrosion
- Colour and gloss limitation

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COLOURCLAD

V. Over-painting Recommendations

- Remove residual surface Lubricants by washing the surface with a solution of a household detergent using a mop / soft broom.
- Rinse thoroughly with fresh water and allow to dry.
- If the area is small enough to permit sanding then remove surface-gloss by sandpapering lightly with a 320-400 grade paper. This will improve paint adhesion.
- Apply the selected paint finish to the clean prepared surface.

VI. Repair Recommendations

Old damaged areas where base metal has been exposed, and rust is apparent, can be repaired as follows:

- Remove all rust carefully with a wire brush
- Sweep away all loose particles
- Apply a thin layer of a two pack Epoxy primer to any rust affected areas
- Apply selected paint finish to the clean prepared surface.