

# Coated Steel – Prepainted Data Sheet



December 2018. This literature supersedes all previous issues



# AQUAPLATE® steel

## General description

AQUAPLATE® steel, developed by BlueScope, is a laminate consisting of a galvanized formable steel and a specially formulated food-grade polymer film, designed to meet the stringent quality requirements necessary for the storage of drinking water.

## Typical uses

Water storage tanks. Tank material is suitable for potable spa, rain, bore or river water. For alternative uses, or to determine if warranties apply, please visit [colorbond.com](http://colorbond.com) and [steel.com.au](http://steel.com.au) or contact Steel Direct for advice.

## Australian and International standards

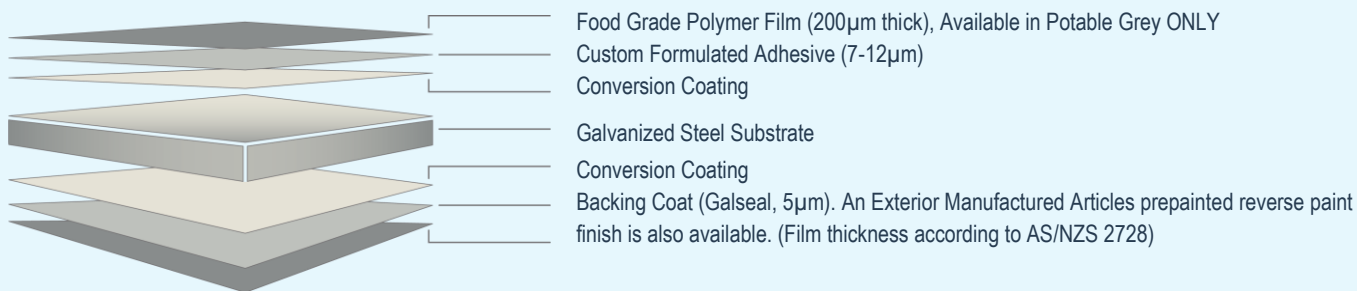
Substrate - AS 1397  
Paint Coating - AS/NZS 2728 Type 3  
Food grade polymer film - AS/NZS 4020  
ISO9001 Quality System certified

## Preferred substrates

Z275 G300S steel (painted or double-sided laminate). Z450 G300S steel (galseal) {Refer Note 4}

For substrate properties please refer to the relevant Metallic (Z) Coated steel datasheets or AS1397.

Please refer to current price list or BlueScope State Sales Office for availability of colours and dimensions.



## Attributes tested during manufacture

Property	Test & Evaluation Method(s)	Results
<b>Adhesion</b>		
Ball adhesion test	AS/NZS 2728 (App. G), CS 245-62 (US)	'D' rating minimum

## Product Attributes

Property	Test & Evaluation Method(s)	Results
<b>Flexibility</b>		
T-bend	ASTM D4145-83	1T or less

Property	Test & Evaluation Method(s)	Results
<b>Resistance to abrasion</b>		
Scratch	AS 2331.4.7	Paint Film: Typically 2000g
<b>Resistance to humidity</b>		
Cleveland (500 hours)	ASTM D4585, AS 1580 408.4 (Adhesion)	Laminate: No loss of adhesion, no blistering Paint Film: Blister density: ≤3. Blister size: ≤S2. No loss of adhesion or corrosion..
<b>Resistance to corrosion</b>		
QFog (2000 hours)	AS/NZS 1580.481.1.9 (Blisters); AS1580.408.4 (Adhesion), AS1580.481.3 (undercutting, Corrosion)	Paint Film: Blister density: ≤2. Blister size: ≤S2. Undercut from score: ≤1mm. No loss of adhesion or corrosion of base metal. Refer Note 3.
<b>Resistance to Chemicals</b>		
Exposure	None	See Notes 5 & 6
<b>Resistance to temperature</b>		
Exposure	None	Maximum continuous services temp of 65°C
<b>Electrical resistance</b>		
Film Electrical resistance	None	200-300 volts per 25um of film thickness

#### Important notes

- The polymer film is not resistant to prolonged exposure to sunlight and tanks should be covered to prevent degradation of the film. The polymer film has been developed for storage of drinking water. Other substances should not be stored without prior consultation with Steel Direct.
- Specific end uses may attract a warranty when using this product, depending upon location. To find out more, please refer to the BlueScope website, or contact your nearest BlueScope Sales office for advice. Terms and conditions apply.
- This Product Data Sheet should be used in conjunction with BlueScope Technical Bulletin No. TB-3 - "AQUAPLATE® steel for water tanks."
- For most products, the metallurgical ageing process which is inherent in the paint stoving cycle will result in some loss of ductility compared with unpainted product. However, minimum strength levels designated by relevant standards will still be applicable.
- Improper storage or use of non-approved roll-forming lubricants may cause paint blushing, and may adversely affect colour and long term durability. Product in coil or sheet pack form must be kept dry. If the coil or sheet pack becomes wet, it must be separated and dried (refer AS/NZS 2728 Appendix L, and also Technical Bulletin TB7). Contact Steel Direct to obtain advice on appropriate rollforming lubricants.
- AQUAPLATE® steel lining can withstand spillages of, but not prolonged immersion, of the following chemicals:  
Alkalis of all concentrations, Mineral acids of all concentrations, petrol, kerosene, mineral turps, alcohol, aqueous solutions of inorganic compounds.  
The product should not be permitted to come into contact with:  
Low molecular weight organic acids (such as acetic, lactic, formic and stearic acids), aromatic hydrocarbons (e.g. toluene), chlorinated hydrocarbons (e.g. 1,1,1-trichloroethane), ketones (e.g. MEK), esters (e.g. cellosolve acetate).

**Aquaplate®**

**steel.com.au**

To learn more about this product

**1800 022 999**

For more information call Steel Direct

