

AQUAPLATE® steel

Designed for: Polymer Coated Steel

Revision 6, November 2003

This literature supersedes all previous issues

GENERAL DESCRIPTION

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

TYPICAL USES

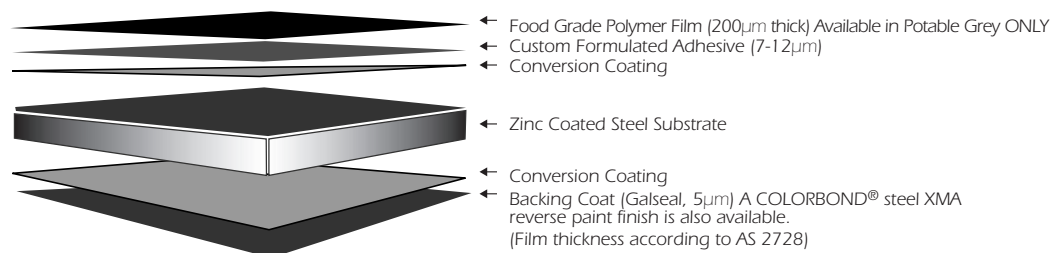
Water storage tanks. Tank material is suitable for portable spa, rain, bore or river water.

AUSTRALIAN STANDARD

Substrate – AS 1397
Paint Coating – AS/NZS 2728:1997 Type 3
Food grade polymer film – AS 2070, part 2

PREFERRED SUBSTRATES ZINCFORM® G300S Z275 steel
ZINCFORM® G300S Z450 steel

Please refer to current price list or BlueScope Steel Limited State Sales Office for standard sizes and availability of reverse colours.



EXPECTED PRODUCT SERVICE PERFORMANCE

Property	Measured After	Test Method	Results
Resistance to temperature	Exposure	–	Maximum continuous services temperature of 65°C
Resistance to corrosion	Salt spray 2000 hours (edge sealed)	ASTM B117	No blistering
Resistance to humidity	Cleveland (500 hours)	ASTM D2247 ASTM 4585 AS 1580 408.4	No loss of adhesion No blistering
Flexibility	T-bend	AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8	1T or less
Resistance to chemicals	Exposure	–	See Notes ② & ③
Adhesion (film to substrate)	Drawn ball and Cross hatch	AS 2728 (App 6) CS 245-62 (US)	'D' rating (minimum)
	T-bend	AS/NZS 2728 (App. F) NCCA Tech. Bull. 4.2.8	0T (flat bend) (no greater)
Electrical resistance	–	–	200 - 300 volts per 25µm of film thickness
Resistance to abrasion	Taber Abraser 1000g H 22 wheels	AS/NZS 1580 403.2	50 mg per 100 cycles
Resistance to fire	Exposure	AS/NZS 1530.3	Ignitability Index: 17 rating in scale of 0-20 Spread of flame index: 0 rating in scale of 0-10 Heat evolved index: 1 rating in scale of 0-10 Smoke evolved index: 5 rating in scale of 0-10

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NOTE

- ① 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.
- ② The AQUAPLATE® lining can withstand spillages of, but not prolonged immersion, in the following chemicals:
 - Alkalis of all concentrations
 - Mineral acids of all concentrations
 - Petrol, kerosene, mineral turps and alcohol
 - Aqueous solutions of inorganic compounds

The product should not be permitted to come in 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)
- ③ The AQUAPLATE® laminate has been developed for storage of drinking water. Other substances should not be stored without prior consultation with BlueScope Steel Limited Sales Offices.
- ④ The polymer film is not resistant to prolonged exposure to sunlight and tanks should be covered to prevent degradation of the film.

This PRODUCT DATA SHEET should be used in conjunction with BlueScope Steel Technical Bulletin No. TB-3 – "AQUAPLATE STEEL FOR WATER TANKS".
- ⑥ Improper storage or the use of non-approved lubricants may adversely affect the film surface. Material which becomes wet while in stacks or bundles must be separated and dried (refer AS/NZS 2728 Appendix K).

AQUAPLATE® and ZINCFORM® are registered trade marks of BlueScope Steel Limited.

BlueScope is a trade mark of BlueScope Steel Limited.

Please ensure you have the current data sheet for this product as displayed at www.bluescopesteel.com.au

BlueScope Steel Limited

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