

### NEXTEEL™ MARINE GRADE ALUMINIUM

**NextREME™ XC** outperforms other pre-painted options as it combines a marine grade aluminium substrate with the best protective paint system for an unmatched warranty on Roof Sheeting and Wall Cladding. The PVDF paint system with Colour Lock has extended warranties for Life to Perforation, warrants against Flake & Peel of the Finish Coat, and is the only paint system with both Colour Retention and Gloss Retention warranties.

<b>Substrate:</b> Aluminium
<b>Alloy:</b> 5052 Suitable for extreme coastal environments.
<b>Primer:</b> Urethane.
<b>Top Coat (Finish):</b> PVDF 70% guaranteed 25 microns with double UV stability.
<b>Colour Lock Clear Coating:</b> XL Clear DFB nominally 13 microns.
<b>Additional Performance Benefits:</b> Double UV stability and Ultra Cool roof pigments.
<b>Protective Plastic Coating (NextSTRIP™) if required:</b> 75 microns.



- NEXTSTRIP™  
75um protective film (if applicable)
- COLOUR LOCK CLEAR COATING
- NEXTFACOR™  
PVDF Finish Coat  
25um (guaranteed)
- URETHANE PRIMER
- CONVERSION COATING
- MARINE GRADE ALUMINIUM  
5052 SUBSTRATE
- CONVERSION COATING
- URETHANE PRIMER
- BACKING COAT  
10um (nominal)

#### FEATURES:

Double UV  
Cool Coating Protection  
Colour Lock Clear Coating

### ALUMINIUM SUBSTRATE

Aluminium alloy type 5052 Marine Grade, H34 and H38.

CHEMICAL COMPOSITION							
Magnesium	Chromium	Copper	Iron	Manganese	Silicone	Zinc	Remainder
2.2% - 2.8%	0.15% - 0.35%	0.10%	0.40%	0.10%	0.25%	0.10%	Aluminium



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PHYSICAL PROPERTY	VALUE
Density	2.68 g/cm <sup>3</sup>
Melting Point	605° C
Thermal Expansion	23.7 x 10 <sup>-6</sup> /K
Modulus of Elasticity	70 GPa
Thermal Conductivity	138 W/m.K
Electrical Resistivity	0.0495 x 10 <sup>-6</sup> Ω.m

MECHANICAL PROPERTIES		
HARDENING	ULTIMATE MPA	YIELD MPA
H32	228	193
H34	262	214
H36	276	241
H38	290	255

PERFORMANCE TESTING	
ASTM D5178-13	Scratch Resistance
AS/NZS 2728:2013 Table 2.2 Appendix E	Impact Resistance
AS/NZS 2728:2013 Section 2.6.1 Appendix F 2.2 Appendix E	Bend test
AS/NZS 2728:2013 Sections 2.8 and 2.10	Salt Spray
AS/NZS 2728:2013 Sections 2.8 and 2.9	Humidity Resistance
AS/NZS 2728:2013 Sections 2.8 and Table 2.4	QUV Resistance (Durability)

IGNITABILITY INDEX	0	RANGE 0-20
SPREAD OF FLAME INDEX	0	RANGE 0-10
HEAT EVOLVED INDEX	0	RANGE 0-10
SMOKE DEVELOPED INDEX	4	RANGE 0-10

	STANDARD ERROR	MEAN	
IGNITION TIME	NIL	NIL	MIN
FLAME PROPOGATION TIME	NIL	NIL	SEC
HEAT RELEASE INTERGAL	NIL	NIL	kJ/m <sup>2</sup>
SMOKE RELEASE, LOG D	0.0541	-1.1832	
OPTICAL DENSITY, D		0.0683 / METRE	/ METRE

**COMPLIANCE**

AS/NZS 2728: 2013 Pre-finished / pre-painted sheet metal products for interior / exterior use

AS/NZS 1734:1997 Aluminium and Aluminium alloys - Flat Sheet, Coil sheet and plate.

AS/NZS 1530.3 Methods for Fire tests on Building Materials, Components and Structures

National Construction Code clauses C1.12 (e) and C7.12 (e), considered non-combustible materials.