

## NextREME<sup>TM</sup> XC

# Data Sheet

#### NEXTEEL™ MARINE GRADE ALUMINIUM

**NextREMETM 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.

#### Substrate:

Aluminium

#### Alloy:

5052 Suitable for extreme coastal environments.

#### Primer:

Urethane.

#### Top Coat (Finish):

PVDF 70% guaranteed 25 microns with double UV stability.

#### **Colour Lock Clear Coating:**

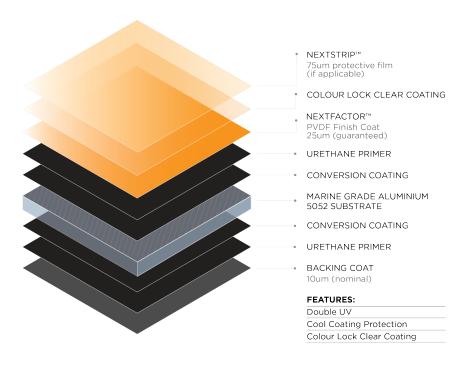
XL Clear DFB nominally 13 microns.

### Additional Performance Benefits:

Double UV stability and Ultra Cool roof pigments.

Protective Plastic Coating (NextSTRIP™) if required:

75 microns.



#### **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^-6/K
Modulus of Elasticity	70 GPa
Thermal Conductivity	138 W/m.K
Electrical Resistivity	0.0495 x 10^6 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/m²
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.

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