

NEXTEEL™ MARINE GRADE ALUMINIUM

NextREME™ SE has the flexibility to be offered in any standard colour, including Matt Finish, on a marine grade aluminium substrate. Painted in Australia using an advanced silicone-modified polyester (SMP) coating formulation with infrared-reflective (IR-reflective) pigments to extend the service life of the Roofing and Wall Cladding.

Substrate: Aluminium
Alloy: 5052 Suitable for extreme coastal environments.
Primer: Urethane.
Top Coat (Finish): Silicone modified polyester with a guaranteed applied thickness of 25 microns.
Additional Performance Benefits: Double UV stability and Ultra Cool roof pigments.
Protective Plastic Coating (NextSTRIP™) if required: 75 microns.



- NEXTSTRIP™
75um protective film (if applicable)
 - NEXTSTAR™
Silicone Modified Polyester 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

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

PHYSICAL PROPERTY	VALUE
Density	2.68 g/cm ³
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

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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 ²
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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