

ALPOLIC NC

Non Combustible Aluminium Composite Material

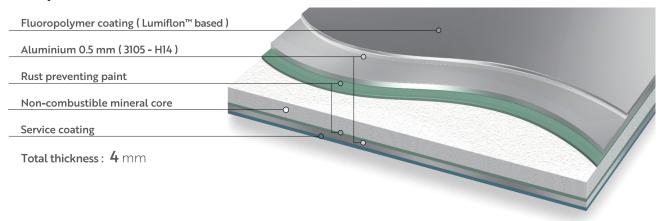




ALPOLIC™ NC is a fire safe aluminium composite material with a non-combustible mineral core that contains zero polyethylene.

ALPOLIC™ NC can be used as an exterior or interior cladding and roof coverings in both new buildings and re-clad applications wherever a non-combustible material is required.

Composition of ALPOLIC™NC

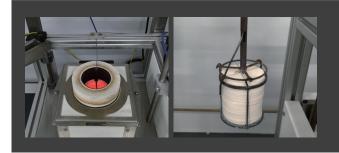


Dimension (standard)

Thickness (tolerance ±0.2mm)	Standard width (tolerance; ±2.0mm)	(Bow tolerance)	
4 mm	1270, 1575 mm	±0.5 % of the length or width	
Skin thickness	Length (tolerance; ±1.0mm/m)	(Diagonal difference)	
0.5 mm	1800 - 7200 mm	Max 5.0 mm	

Characteristic (for standard dimension)

		Method	Unit	
Physical properties	Thickness	_	-	4 mm
	Specific gravity	_	-	2.15
	Weight	_	kg/m²	8.6
	Thermal expansion	ASTM D696	×10 ⁻⁶ /°C	20.6
	Thermal conductivity	Calculated value	W/m-K	0.4
	Deflection temperature	ISO 75-2	°C	11.5
Mechanical properties of composite material	Tensile strength	ASTM E8	MPa, N/mm²	48.2
	0.2% proof stress	ASTM E8	MPa, N/mm²	46.5
	Elongation	ASTM E8	%	2.7
	Flexural elasticity, E	ASTM C393	GPa, kN/mm²	45.6
Sound transmission loss		ASTM E413	STC	27
Metal thickness with equivalent rigidity		Calculated value		Aluminium 3.3mm



FIRE SAFETY

Certified AS 1530.1 / AS 1530.3

ALPOLIC™ NC is **AS 1530.1 & AS 1530.3** Certified.

- Passed BS 476 Part 4 (core only).
- Passed ISO1182 tested in accordance with EN13501-1 A1 Classification.



FLATNESS



COLOR UNIFORMITY



FINISH DURABILITY

Molecular structure of Lumiflon™ has a higher bond energy than UV ray, thus provides superior UV resistance and enhance finish durability. Proven durability in Australian conditions for over 25 years.



ANTI CORROSION

Coating on reverse side of ALPOLIC $^{\mathbf{m}}$ prevents galvanic corrosion with dissimilar metals on the building structure.



WORKABILITY



RIGIDITY



ECOLOGY

Recyclable and environmentally friendly. CO2 emission during manufacturing process is 48.2 % lower than 3.3 mm thick solid aluminium. (18.95 kg - CO2 / m2 vs 36.57 kg - CO2 / m2)



WARRANTY

ALPOLIC NC is backed by globally trusted brand -MITSUBISHI CHEMICAL CORPORATION-. The 20-year coating warranty is available.

ISO 9001: 2015 Certified

The production of ALPOLIC™ is ISO 9001:2015 compliant throughout the design, development, manufacture and sales.

ISO 14001: 2015 Certified

ALPOLIC™ are produced in plants that have ISO 14001:2004 certificate.



ALPOLIC Division

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<sup>The information and data contained in this brochure are as of May, 2019.
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