

ALPOLIC®/NC-US (Non-Combustible) TECHNICAL INFORMATION

BOND INTEGRITY

Property	Height	ASTM	Total Thickness 4mm (.157")
Drum Peel	in-lb/in	D-1781	>22.5 in-in/lb

ENGINEERING PROPERTIES

Property	Unit	ASTM	Total Thickness 4mm (.157")
Aluminum Thickness	in		0.020
Specific Gravity			2.015
Weight	lbs/ft ²		1.76
Coefficient of Expansion	in/in/°F	D-696	11.44
Tensile Yield Strength	psi	E-8	6991
Tensile Strength	psi	E-8	6744
Elongation	%	E-8	2.7
Deflection Temperature	°F	D-648	240
Sound Transmission Coefficient	STC#	E90	28
Outdoor-Indoor Transmission Class	OITC#	E90	23

PRODUCT TOLERANCE

Width:	± 0.08" (2mm/meter)
Length:	± 0.12" (1mm/meter)
Thickness:	4mm ± 0.008" (0.2mm/meter)
Bow:	Maximum 0.5% of length and/or width
Squareness:	Maximum 0.2" (5mm/meter)
Peel Strength:	>22.5 in lb/in (ASTM D1781)

ALPOLIC®/NC-US material is trimmed and squared with cut edges to offer the best panel edge conditions in the industry.

SURFACE TREATMENTS

The first metal composite material with a non-combustible core for use in the United States. Architects prefer MCM products for a reason. But in the past, if your specs required a non-combustible product, MCM has been off the table. The days of working with a limited palette are almost over. When it comes to your vision, compromise on nothing. The same beauty you love. The same durability you can depend on, now with a new level of safety exclusive to ALPOLIC®.



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FIRE PERFORMANCE

ALPOLIC®/NC-US has been tested by independent testing laboratories using the following nationally recognized fire tests.

ASTM E84

Flame Spread:	4mm	00
Smoke Developed:	4mm	<450

ASTM E136 (NC-US Core Only)

Passed (Non-combustible)

ASTM D635

Rate of burning	Classified CC1
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ASTM D1929

Flash	4mm	946° F
Ignition	4mm	955° F

NFPA 285, INTERMEDIATE SCALE MULTISTORY APARATUS TEST

4mm Passed

NFPA 259, POTENTIAL HEAT RELEASE

4mm <1270 BTU/LB

CODE EVALUATION REPORTS

1. Intertek listing for ALPOLIC®/NC-US

Need Help? Contact ALPOLIC® Technical Services

1.800.422.7270 | technicalservices@alpolic.com

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