



As the original “aluminum composite material,” ALUCOBOND® PLUS has been developed exclusively to allow architects and designers to meet the fire performance requirements of today’s building standards while using ACM as the material of choice. Consisting of two sheets of smooth .020” aluminum thermo-bonded to a solid, fire retardant core, ALUCOBOND PLUS is one component of the assembly that meets the requirements of fire classifications while offering the proven product properties such as flatness, form-ability, durability and ease of fabrication.

The versatile characteristics of ALUCOBOND PLUS provide for a plethora of applications such as exterior and interior cladding, column covers, canopies, soffits and even signage, allowing architects to offer inspiring, creative, and innovative designs while meeting the standards of sustainable planning.

The following technical data pertains to the ALUCOBOND PLUS Reflect Mirror finish from the Natural Collection Element Series.

MATERIAL PROPERTIES

Panel Thickness:	4mm (0.156”)
Aluminum Skin (Front):	0.020”
Aluminum Skin (Reverse):	0.020”
Standard Width:	49.2”
Weight/Area:	1.56 lb/ft ²

PANEL SURFACE

Front Side:	Anodized aluminum coated with a transparent, UV resistant coating
Total Reflection:	84 - 85%
Gloss:	≥ 78%
Reverse Side:	Mill Finish (Aluminum)

TECHNICAL PROPERTIES

Section Modulus W:	0.033 in ³ /ft
Rigidity:	2500 lbf·in ² /ft
Modulus of Elasticity:	10 psi
Tensile Strength of Aluminum:	19 kpsi
0.2% Proof Stress:	13 kpsi
Core:	Mineral filled polymer

THERMAL & ACOUSTICAL PROPERTIES

Thermal Resistance: (R-Value)	0.16 ft ² ·°F·h/BTU
Heat Transition Coefficient: (U-Value)	6.25 ft ² ·°F·h/BTU
Linear Thermal Expansion:	0.029 in/ft over a 212°F ΔT
Application Range:	-60°F to 180°F
Sound Absorption Factor (α _w):	0.05
Sound Transmission Loss (R _w):	STC: 30dB / OITC: 24dB

To download PDF or AutoCAD details and specifications, visit our website at www.alucobondusa.com

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