

About *Alumanate*

Founded in 2016, Alumanate proudly brought metal composite manufacturing home to the U.S.A. at the start of 2024. We are the only manufacturers of signage-grade aluminum composite material (ACM) in the U.S.A. Based in Houston, Texas, our factory features state-of-the-art manufacturing machinery and technology, giving us an annual capacity of 50,000,000 sqft. Our American ingenuity combined with the excellent raw materials found here in America, allow us to produce an exceptional ACM sheet at a competitive price point.



Quality

Dedicated to precision manufacturing, our AmeraCore ACM production line uses only the highest grade of LDPE which translates to a longer CNC router bit life and a smooth, dimple-free surface. In addition, all of our signage-grade ACM is specifically optimized for direct digital print (DP).



Global Distribution

With our centrally located factory in Houston, Texas, we are the largest stockholder of ACM in North America. We stock over 50 different ACM items and we have the ability to produce custom orders with a 2-4 week lead time. In addition to Houston, we have stocking facilities in Los Angeles and Chicago.



Growth & Development

Our multi-million dollar investment to move our manufacturing from Asia to the U.S.A. represents our commitment to enhance our competitive advantage and better serve our customers. Supporting Alumanate means supporting American jobs, reducing supply chain risk and lowering your carbon footprint.



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Explore the diverse application and fabrication opportunities **AmeraCore** offers:

- ★ Architecture
- ★ Furniture
- ★ Screen printing
- ★ Cladding
- ★ Partitions
- ★ Outdoor advertising
- ★ Exhibition design
- ★ Shop fitting
- ★ Vinyl application
- ★ 3D Lettering
- ★ Navigate signage
- ★ Art/creative work
- ★ Hanging signs
- ★ Signage
- ★ Clean rooms
- ★ Hoarding
- ★ Digital printing
- ★ Canopies
- ★ Interior design
- ★ Retail (POS/POP)
- ★ Trailers

All AmeraCore products are covered by a 10 year bond integrity warranty. In addition, we offer paint warranties ranging from 5-30 years.



What is **AMERACORE PREMIUM** ?

USA Manufactured Aluminum Composite Material by Alumanate

AmeraCore Premium is the ultimate aluminum composite panel for fabrication. This product is proudly made in Houston, Texas using only the highest grade of raw materials. This includes American-made LDPE resin, which gives AmeraCore Premium superior CNC router performance compared to other products available on the market. From gas station canopies and exterior fascia's to extensively fabricated sign projects, AmeraCore Premium has you covered.

Paint Finish

- Available in a wide array of colors, this double-sided sheet features high gloss on one side and matte finish on the other

Protective Film

- Easy release film to protect the painted surface of the material

Aluminum Skin

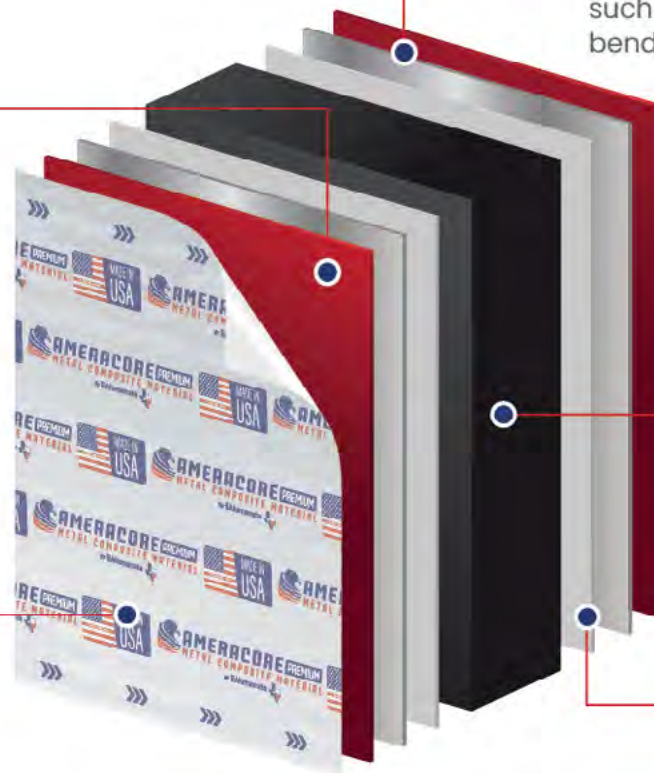
- 0.012" Aluminum skins gives the sheet exceptional rigidity and allow for extensive fabrication such as V groove routing, folding, bending and forming

Core

- Premium PE core

Adhesive

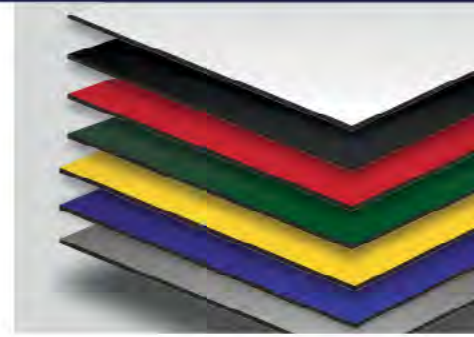
- To give superior bond strength



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Ameracore Premium is an American-made aluminum composite sheet consisting of two 0.012" aluminum facers that are bonded to a polyethylene core. Ameracore Premium is the ultimate ACM for all fabrication needs including folding, forming, and bending.

Features & Benefits

- ✓ Optimized for direct digital print applications
- ✓ Excellent routability
- ✓ Versatile and easily formable
- ✓ Lightweight yet rigid
- ✓ Uniform, flat surface
- ✓ Withstands extreme outdoor conditions
- ✓ UV Resistant for outdoor use
- ✓ 5 Year outdoor, 10 year indoor paint guarantee

Applications

- Architectural usages
- Clean rooms
- Large vehicle paneling
- Canopies
- Interior/exterior signage
- Real estate signage
- POS/POP Displays
- Exhibition stands/display
- Trailers
- Printing direct
- Navigate signage
- Shop fitting
- Outdoor advertising

Colors

Color matching available upon request. Minimum order will be required.

- Signal white
- Ivory
- Jet black
- Moss green
- Traffic yellow
- Traffic red
- Burgundy
- Ultramarine blue
- Night blue
- Metallic silver
- Anthracite grey
- Bronze
- Brushed silver
- Brushed gold
- Brushed copper
- Brushed black
- Silver mirror
- Gold mirror



Ameracore is an American-made aluminum composite sheet consisting of two 0.008" aluminum facers that are bonded to a polyethylene core. Ameracore is a versatile ACM sheet that is perfect for direct printing and all basic fabrication needs.

Features & Benefits

- ✓ Can be digitally printed, screen printed or media applied directly to substrate
- ✓ Optimal for routing and cutting
- ✓ Clean, easy-peel film
- ✓ Lightweight yet rigid
- ✓ Uniform, flat surface
- ✓ Withstands extreme outdoor conditions
- ✓ UV Resistant for outdoor use
- ✓ 5 Year outdoor, 10 year indoor guarantee

Applications

- POP / POS Displays
- Exhibits & kiosks
- Interior signage & displays
- Exterior signage & displays
- Framing
- Window displays
- Promotional campaigns
- Shelving & storage components
- Dimensional letters
- Lightweight hanging signs
- Vinyl application
- Printing direct

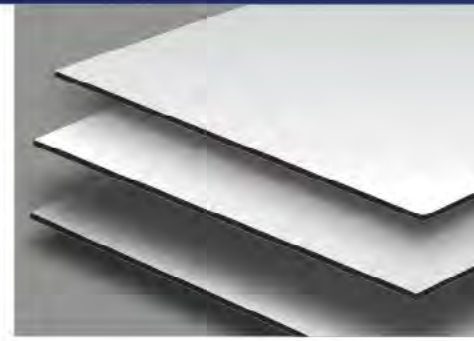
Colors

Color matching available upon request. Minimum order will be required.

- Signal white
- Jet black
- Brushed silver
- Brushed gold



Ameracore Eco is an American-made aluminum composite sheet consisting of two 0.006" aluminum facers that are bonded to a polyethylene core. Ameracore Eco is an economy ACM that is perfect for all flat panel applications.



Features & Benefits

- ✓ Optimized for direct digital print applications
- ✓ Excellent Value
- ✓ Incredibly Flat, Smooth Finish
- ✓ Easy-peel film
- ✓ High UV Resistance
- ✓ 5 Year outdoor, 10 year indoor paint guarantee

Applications

- Printing direct
- Channel letter backing
- Interior/exterior signage
- Flat panel applications
- Wall & fence mounted signs
- Temporary construction & traffic/regulatory signs
- Vinyl applications

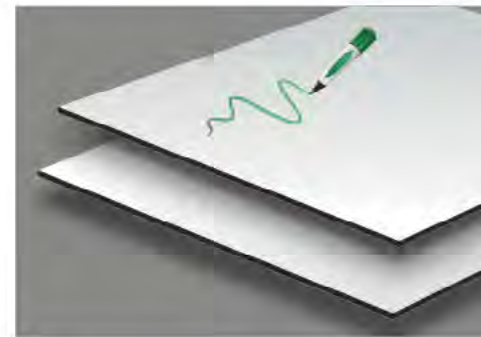
Colors

Color matching available upon request. Minimum order will be required.

- Signal white



Ameracore Steel is an American-made steel composite panel consisting of two 0.010" galvanized steel facers on each side. Ameracore Steel is available in both dry erase gloss white and matte white finishes.



Features & Benefits

- ✓ Magnetic receptive
- ✓ Dry erase option
- ✓ Matte white side optimized for digital print
- ✓ Uniform, flat surface
- ✓ Withstands extreme outdoor conditions
- ✓ 5 Year outdoor, 10 year indoor paint guarantee

Applications

- Trailers
- Whiteboards
- Magnetic receptive signage
- Interior/exterior signage
- Printing direct
- POS/POP Displays
- Outdoor advertising
- Large vehicle paneling

Colors

Color matching available upon request. Minimum order will be required.

- Dry erase gloss white
- Matte white



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COLOR CHART



Colors shown are as close to actual painted panels as possible. **Please call for color chip samples if needed.**

For brushed metals and mirror, the grain direction must be considered in the design of the panel installation. Opposing grain directions may create visible patterns and may not be acceptable in the finished project.

Color matching available upon request.
Minimum order will be required.





AMERACORE

METAL COMPOSITE MATERIAL

By Alumanate

Signage Product Specification Data

Product Description

Ameracore aluminum composite material uses a polyethylene core with aluminum facers on each side. Ameracore is an ultra-smooth, maintenance-free and long-lasting product that is excellent for all types of printing, painting, die-cutting, mounting, and vinyl wrapping.

Tolerances

Thickness	± 0.2
Width	± 2
Length	- 0 / + 4
Diagonal	± 5
Aluminum Thickness	± 0.02
Thermal Expansion	2.4mm/m @ 100°C Temp Difference

Panel Dimensions

Panel Thickness	2mm, 3mm, 4mm, 6mm
Aluminum Thickness	.005", .006", .008", .010, .012
Standard Sizes	48"x96", 48"x120", 60"x120", 60"x144"
Weight - lbs/ft ²	<u>2mm</u> <u>3mm</u> <u>4mm</u> <u>6mm</u> .068 .090 1.12 1.70

Technical Properties

	2mm	3mm	4mm	6mm
Rigidity - kNcm ² /m	345	865	1620	3840
Sound Insulation - dB	23	24	25	
Heat Coefficient - W/m ² K	5.72	5.61	5.50	5.30
Alloy Aluminum	1100			
E-module - N/mm ²	70.000			
Tensile Strength - N/mm ²	145-185 RM			
Core, Black PE - g/cm ³	0.92			

Panel Dimensions

Paint Thickness	20µm - Enhanced Digital Polyester
Acid Resistance	Immerse surface in 2% HCl for 48h no change
Alkali Resistance	Immersed surface in 2% NaOH for 24hrs without change
Oil Resistance	Immersed surface in 20# engine oil for 24hrs without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Gloss Value	35% Matt / 95% Gloss (Tolerance ± 5%)
Pencil Hardness	>HB
Temperature Resistance	- 50°C to + 90°C
Color Variation	5 year ΔE 3
Chalking	5 year index 8
Outdoor Durability	5 year warranty
Indoor Durability	10 year warranty

We believe the information on this product to be accurate. However, since we cannot anticipate or control the conditions under which this information or our products may be used, we cannot guarantee results obtained through their use. Tests of our products should be made by users to determine the suitability of these products for a specific purpose.

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Product Comparison Chart

AMERACORE PREMIUM

Panel Thickness	Skin Thickness	Weight (lb/ft ²)	Finish	Core Composition	Sizes
3mm	.012"	.86	High Gloss/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
4mm	.012"	1.08	High Gloss/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
6mm	.012"	1.52	High Gloss/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
8mm	.012"	1.96	High Gloss/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'

AMERACORE

Panel Thickness	Skin Thickness	Weight (lb/ft ²)	Finish	Core Composition	Sizes
2mm	.008"	.62	Matte/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
3mm	.008"	.84	Matte/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
4mm	.008"	1.06	Matte/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'
6mm	.008"	1.50	Matte/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'

AMERACORE ECO

Panel Thickness	Skin Thickness	Weight (lb/ft ²)	Finish	Core Composition	Sizes
3mm	.006"	.82	Matte/Matte	LDPE	4' x 8', 4' x 10', 5' x 10'

AMERACORE STEEL

Panel Thickness	Skin Thickness	Weight (lb/ft ²)	Finish	Core Composition	Sizes
3mm	.010"	1.42	Dry erase gloss white/matte white matte/matte	LDPE	4' x 8', 4' x 10'

Custom sizing available upon request.
Minimum order will be required.

AMERACORE PREMIUM

Construction	Fabrication	Forming Techniques	Stocked Colors	Warranty
Painted aluminum Premium PE core	Circular saw, reciprocating saw, drill, shear, punch, hand router, CNC router, press brake, panel saw, table saw, band saw	Rout and bend, roll form, reciprocating saw, band saw	All (Refer to color chart on page 7)	10 years indoor 5 years outdoor

AMERACORE

Construction	Fabrication	Forming Techniques	Stocked Colors	Warranty
Painted aluminum Premium PE core	Circular saw, jigsaw, drill, shear, punch, hand router, CNC router, press brake, panel saw, table saw	Rout and bend, roll form, reciprocating saw, band saw	Signal white Jet black Brushed silver Brushed gold	10 years indoor 5 years outdoor

AMERACORE ECO

Construction	Fabrication	Forming Techniques	Stocked Colors	Warranty
Painted aluminum Premium PE core	Circular saw, CNC router, reciprocating saw, drill, panel saw, table saw, band saw	Reciprocating saw, band saw	Signal white	10 years indoor 5 years outdoor

AMERACORE STEEL

Construction	Fabrication	Forming Techniques	Stocked Colors	Warranty
Painted steel Premium PE core	Circular saw with carbide-tipped blade made for metal, guillotine	Roll form, brake press	Dry erase gloss white Matte white	10 years indoor 5 years outdoor