Vitraplate®

Technical Data Sheet

5052 H32 Alloy

VITRAPLATE COMPOSITION

Front Coating	Coil-Coated AAMA 2605 PVDF Coating
Aluminum Plate	5052 H32 Aluminum
Rear Coating	Primer

VITRAPLATE LEED DATA

Pre-Consumer	Up to 5% recycled content
Post-Consumer	Up to 30% recycled content
½ Pre-Consumer + Post-Consumer Recycled Content	
Vitraplate 3mm (1/8")	Up to 32.5%

SHEET SIZES

Widths	Standard: 50", 62" Custom: 36" to 62"
Lengths	Standard: 122", 146", 196" Custom: 100" to 240"
Thicknesses	3mm (1/8")

PRODUCT WEIGHT

Vitraplate 3mm (1/8")	1.7 lbs / ft^2

FINISHES AVAILABLE

Vitraplate 3mm (1/8")	Vitranar® Solid / Mica / Metallic Vitranar® Chromatic Vitranar® Patterns

PRODUCT TOLERANCES

Width	± 1/4"
Length	± 1/8" to ± 3/16" (length dependent)
Thickness	± 0.007"
Bow	0.032" to 0.500" (length dependent)
Flatness	1/8" to 1/2" (length dependent)
Squareness	Per table 7.14 ANSI H35.2
Surface Defects	The surface shall not have any irregularities such as dents, scratches and other imperfections in accordance with our 3rd party verified QC program.

VITRAPLATE FINISH WARRANTIES

Standard Warranty	Up to 20 years
Extended Warranty	Up to 40 years

DrJ TECHNICAL EVALUATION REPORT

TER 2312-08
Access the most recent Vitraplate Technical Evaluation report by DrJ Engineering by scanning the QR code.

CHEMICAL COMPOSITION

Standard	Element	Content
ASTM B209	Aluminum (Al)	95.8% - 97.7%
ASTM B209	Magnesium (Mg)	2.2% - 2.8%
ASTM B209	Chromium (Cr)	0.15% - 0.35%
ASTM B209	Iron (Fe)	0.0% - 0.4%
ASTM B209	Silicon (Si)	0.0% - 0.25%
ASTM B209	Manganese (Mn)	0.0% - 0.1%
ASTM B209	Zinc (Zn)	0.0% - 0.1%
ASTM B209	Copper (Cu)	0.0% - 0.1%

MECHANICAL PROPERTIES

Standard	Property	Data
ASTM B209	Elastic (Young's, Tensile) Modulus	9.9 x 10^6 psi
ASTM B209	Elongation at Break	12%
ASTM B209	Modulus of Resilience (Unit Resilience)	240 kJ/m^3
ASTM B209	Poisson's Ratio	0.33
ASTM B209	Shear Modulus	3.7 x 10^6 psi
ASTM B209	Shear Strength	20 x 10^3 psi
ASTM B209	Tensile Strength: Ultimate (UTS)	34 x 10^3 psi
ASTM B209	Tensile Strength: Yield (Proof)	26 x 10^3 psi
ASTM B209	Unit Rupture Work (Ultimate Resistance)	26 x mJ/m^3

THERMAL PERFORMANCE

Standard	Descriptions	Test
ASTM D696	Coefficient of Linear Expansion	13.8 x 10^{-6} in/in/°F (Aluminum)

FIRE PERFORMANCE

Standard	Descriptions	Test	Test Result
ASTM E136	Fire Performance of Aluminum	ΔT < 86°F	Non-Combustible
ASTM E84	Flame Spread	<25	PASS
ASTM E84	Smoke Development	<450	PASS
NFPA 285	Non-combustible per ASTM E136; the wall assembly is reviewed under the applicable code		
ASTM E119	Use in fire-rated wall assemblies is outside the scope of TER 2312-08		

AAMA 2605 STANDARD PVDF COATING

Standard	Descriptions	Test	Test Result
ASTM B117	Salt Spray Resistance	5% salt fog at 95°F	Passes 4000 hrs. Less than 1/16" avg creepage from scribe. None or few #8 blisters
ASTM D523	Specular Gloss Test	Standard @ 60°	Varies per finish
ASTM D1308	Alkali Test	10%, 25% NaOH, 1hr	No Effect
ASTM D714	Blistering of Paint Test	100% Relative Humidity @ 95°F	Passes 4000 hrs.
ASTM D2244	Exterior Exposure	10 years @ 45° South Florida	PASS - Max. 5 fade
ASTM D2247	Water Resistance	100% Relative Humidity @ 95°F	No #8 blisters
ASTM D2794	Reverse Impact	1.5 x metal NOMINAL THICKNESS (Aluminum)	No cracking or adhesion loss
ASTM D3359	Adhesion	Reverse impact 1/16" crosshatch	No adhesion loss
ASTM D3363	Film Hardness	Pencil Test F - 2H	PASS
ASTM D4145	Prepainted Metal Coating Flexibility	T - Bend	0 - 2 T - Bend, No pick off
ASTM D4214	Chalk Resistance	10 years @ 45° South Florida	Pass - Max. 8 Chalk

Data are typical, are provided for informational purposes, and should not be construed as maximum or minimum values for specification or for final design, or for a particular use or application. The data may be revised anytime without notice. We make no representation or warranty as to its accuracy and assume no duty to update. Actual data on any particular product or material may vary from those shown herein. © 2026 Fairview Architectural. All rights reserved.