Vitrabond®

Technical Data Sheet

Vitrabond® FR Metal Composite Material

METAL COMPOSITE MATERIAL COMPOSITION

Front Coating	Coil-Coated AAMA 2605 PVDF Coating
Front Skin	3003 H14 Aluminum
Core	FR Core - minimum 70% mineral fill by weight
Rear Skin	3003 H14 Aluminum
Rear Coating	Chromate Conversion Coating

VITRABOND FR LEED DATA

Pre-Consumer	Up to 4.5% recycled content
Post-Consumer	Up to 10.5% recycled content
½ Pre-Consumer + Post-Consumer Recycled Content	
Vitrabond® FR 4mm	Up to 12.75%

SHEET SIZES

Widths	62", 50", 49.2" Custom widths available on inquiry
Lengths	240" max.
Thicknesses	4mm 6mm (only available in 39.37" width)

PRODUCT WEIGHT

Vitrabond® 4mm FR	1.5 lbs / ft²
Vitrabond® 6mm FR	2.2 lbs / ft²

PRODUCT TOLERANCES

Width	± 0.079" (2.0mm)
Length	± 0.157" (4.0mm)
Thickness	± 2%
Bow	Max. 0.5% of length and/or width
Squareness	Max. 0.196" (4.97mm)
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.

VITRABOND FR WARRANTIES

Product Warranty	Up to 20 years
Finish Warranty	Up to 40 years (finish dependent)

FLORIDA PRODUCT APPROVAL

Product Approval Number	46016.3

DrJ TECHNICAL EVALUATION REPORT

TER 1809-01

Access the most recent **Vitrabond®** Technical Evaluation Report by DrJ Engineering by scanning the QR code or clicking the link below:

https://www.drjcertification.org/ter/1809-01

PROPERTIES

Standard	Test	Test Standard	Result
ASTM E136	Fire Performance of 3003 Aluminum	ΔT < 86°F	PASS
ASTM C393	Core Shear Ultimate Stress	>150 psi [1.03 MPa] (Test Specimen Average)	PASS
ASTM C393	Flexure Stress	>15695 psi [108.21 MPa] (Test Specimen Average)	PASS

IMPACT RESISTANCE

ANSI FM4473	Severe Hail Exposure Test	PASS/FAIL	PASS

THERMAL PERFORMANCE

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

BOND INTEGRITY

ASTM C297	Flatwise Tensile Strength	>400 psi [2.76 MPa]	PASS
ASTM D1781	Climbing Drum Peel Test	>22.5 in-lb/in [100 mm-N/mm]	PASS
ASTM D1002	Peak Shear Strength	>515 psi [3.55 MPa]	PASS

FIRE PERFORMANCE

ASTM E84	Flame Spread	<25	PASS
ASTM E84	Smoke Development	<450	PASS
NFPA 285	Fire Propagation Characteristics	Tested in compliant wall assemblies (TER 1809-01)	PASS
CAN/ULC-S134	Fire Test of Exterior Wall Assemblies	PASS/FAIL	PASS

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.