

TECHNICAL DATA SHEET

Vitranar® Flexible Resin Coated Aluminum

5052 H32 Alloy

PRE-FINISHED ALUMINUM SHEETS

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

VITRANAR COATED ALUMINUM LEED DATA

½ Pre-Consumer + Post-Consumer Recycled Content

| | |
|-----------------------|-------------|
| Pre-Finished Aluminum | Up to 32.5% |
|-----------------------|-------------|

SHEET SIZES

| | |
|-------------|---|
| Widths | 62" 60" 48" <i>Inquire for custom width availability</i> |
| Lengths | 240" max. |
| Thicknesses | Min. 0.020" Max. 3mm (1/8") |

PRODUCT WEIGHT

| Thickness | Weight |
|----------------|---------------------------|
| 3.0mm (1/8") | 1.7 lbs / ft ² |
| 2.5mm (0.100") | 1.4 lbs / ft ² |
| 2.0mm (0.080") | 1.1 lbs / ft ² |
| 1.5mm (0.063") | 0.9 lbs / ft ² |
| 1.3mm (0.050") | 0.7 lbs / ft ² |
| 1.0mm (0.040") | 0.6 lbs / ft ² |
| 0.8mm (0.032") | 0.5 lbs / ft ² |

FINISHES AVAILABLE

| | |
|-----------------------|--|
| Pre-Finished Aluminum | Vitranar® Solid / Mica / Metallic Vitranar® Chromatic Vitranar® Patterns |
|-----------------------|--|

PRODUCT TOLERANCES

| | |
|-----------------|--|
| Width | 3mm |
| Length | ± 1/8" to ± 3/16" (length dependent) |
| Thickness | Thickness Dependent |
| 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. |

VITRANAR FINISH WARRANTIES

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

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.

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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 | 13.8x10 ⁻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 | Not Applicable to Non-Combustible Products | | |
| ASTM E119 | Not Applicable to Non-Combustible Products | | |

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 |