ALFA
ARCHITECTURAL PHENOLIC PANELS

# PRODUCT DATA SHEET

*Thickness: 8mm, 10mm, 12mm*
*Ver: 02 (8.2026)*

# ALFA

Standard Wood Fiber Core

| Test | Standard | Property or Attribute | Results |
|---|---|---|---|
| **1. Physical Properties** | | | |
| **Bond Strength** | ASTM C297<br>Sections 3.2.3 & 4.3.1 | Strength of Failure ≥ 10 | Control: > 199 psi<br>Freeze Thaw: > 265 psi<br>UV Exposure: > 309 psi |
| **Flexural Strength** | ASTM C297<br>Sections 3.2.3 & 4.3.1 | Average Strength ≥ 60% of Control<br>Control FIT: 500<br>Control FIC: 499 | Wet FIT: 593 psi (18.6%)<br>Wet FIC: 602 psi (20.6%)<br>Freeze Thaw FIT: 511 psi (2.2%)<br>Freeze Thaw FIC: 498 psi (0.2%) |
| | | *FIT = Face in Tension, FIC = Face in Compressions* | |
| **Freeze-Thaw Cycling** | AC92<br>Sections 3.2.2 & 4.2.1 | Appearance / Performance | No change |
| **Water Resistance** | ASTM D2247<br>Sections 3.2.6 & 4.6 | Appearance / Performance | No change |
| **Resistance to Fixings** | ASTM D1037<br>Sections 3.2.7 & 4.7.1.2 | Pull-Through Resistance; Safety Factor of "3 "required per AC92 § 4.7.1.2 | 1,320 lbf avg.<br>440 lbf code-allowable load<br>Safety Factor: 3 — PASS |
| **2. Weather Resistance Requirements** | | | |
| **Accelerated Weathering** | ASTM G155<br>Sections 3.2.1 & 4.1.1 | Appearance / Performance | No change |
| **Salt Spray Exposure** *(300h)* | ASTM B117<br>Sections 3.2.5 & 4.5<br>300h | Appearance / Performance | No change |
| **3. Safety Requirements** | | | |
| **Surface Burning Characteristics** | ASTM E84 | Classification<br>Flame Spread Index<br>Smoke Developed Index | Class B<br>FSI: 35<br>SDI: 175 |
| **Ignition Temperature** | ASTM D1929<br>Section 3.6 | Temperature ≥ 343 °C required | 490 °C |
| **4. Structural Performance** | | | |
| **Design Pressure — Positive & Negative** | ASTM E330<br>Procedure B | Uniform Static Air Pressure, 10-second hold | +230 psf — No damage<br>–200 to –230 psf — No damage |
| **Max Recorded Deflection** | ASTM E330<br>Procedure B | Midspan deflection —<br>48"×96" panel, 16-ga. steel studs 16"o.c., #8×1-1/4" screws 16" o.c. | 25.9 mm (1.02") at –160 psf |

***Structural Performance*** *tested per Intertek Report L3571.04-109-44 (ICC-ES AC92 §4.7.1.1). Figures reflect as-tested assembly performance only — project-specific design pressure ratings must be established by a licensed engineer per applicable code, span, and fastening conditions.*

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