ALFA
ARCHITECTURAL PHENOLIC PANELS

# PRODUCT DATA SHEET

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

# ALFA FR

Fire-Rated Fiberglass Core

| Test | Standard | Property or Attribute | Results |
|---|---|---|---|
| **1. Physical Properties** | | | |
| **Flexural Strength** | KS F 3504 | Bending Strength — Length / Width | Length: 2,872 N; Width: 2,341 N [1] |
| **Water Absorption** | KS F 3200 | Weight Change After Immersion | 0.2% *(vs. AC92 limit of ≤ 20%)* |
| **Dimensional Stability** | KS L 5509 | Variation in Length *(Water Exposure)* | 0.03% |
| **Stain Resistance** | KS F 3200 | Appearance/Performance | 4–5 *(high resistance)* |
| **Impact Resistance** | KS F 3200 | Appearance / Crater Diameter | Pass — 0 mm crater |
| **2. Weather Resistance Requirements** | | | |
| **Accelerated Weathering** *(Xenon Arc)* | KS F 2274<br>KS A 0063 | Color Difference *(ΔE'ab)* | 1,000h: 0.3ΔE \| 2,000h: 0.4ΔE<br>3,000h: 0.6ΔE \| 4,000h: 0.7ΔE<br>5,000h: 0.9ΔE |
| **Salt Spray Exposure** *(1,000 h)* | KS D 9502 | Appearance/Performance | No corrosion |
| **3. Safety Requirements** | | | |
| **Surface Burning Characteristics** | ASTM E84 | Classification<br>Flame Spread Index<br>Smoke Developed Index | Class A<br>FSI: 25<br>SDI: 45 |
| **Fire Propagation** | NFPA 285 | Wall Assembly Performance | Pass |
| **Chemical Resistance** | KS F 3200 | Acid / Alkali Resistance | Pass / Pass |
| **Formaldehyde Emission** *(Desiccator Method)* | KS M 1998 | Mean Value | Not detected *(detection limit 0.05 mg/L)* |

[1] *≈ 416 psi if converted directly — provided for general reference only. KS F 3504 measures bending force (N) on a board-bend test geometry; ASTM D1037 (used for the Standard core's psi values) uses a different span and specimen configuration.*

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