

FINISH PERFORMANCE SPEC SHEET

Powder-Coat Finish, Tested to International Standards.

Independent lab results place Elevated Entries’ matte-black finish in the range of the U.S. AAMA 2605 “Superior Performing” tier for architectural aluminum coatings.

CORROSION

720h CASS

ISO 9227 copper-accelerated salt spray — passed

ADHESION

13.1–21.7 MPa

Pull-off strength (GB/T 5210) — 2.6–4.3× the 5 MPa threshold

U.S. EQUIVALENCY

AAMA 2605

Superior Performing tier — the top of three AAMA classes

HOW THE U.S. AAMA CLASSES COMPARE

Class	Tier	Salt Spray	Weathering
AAMA 2603	Entry	1,500 h B117	1-yr S. FL
AAMA 2604	High-Perf.	3,000 h B117	5-yr S. FL
AAMA 2605	Superior	4,000 h B117	10-yr S. FL

AAMA 2605 is the U.S. specification used on high-end architectural aluminum (commercial storefronts, high-rise curtain wall). Elevated Entries’ finish was tested under a more aggressive corrosion method (CASS) than 2605 requires and passed.

HOW THE TESTS MAP TO AAMA

AAMA Requirement	Elevated Entries Test	Result
Salt spray (ASTM B117)	ISO 9227 CASS, 720 h*	PASS
Adhesion (ASTM D3359 tape)	Pull-off (GB/T 5210)	PASS
Weathering (S. Florida)	Not yet commissioned	—
Humidity (100°F / 100% RH)	Not yet commissioned	—

* CASS (copper-accelerated acetic acid salt spray, 50°C) is roughly 10–15× more aggressive than the neutral B117 test AAMA references.

INDEPENDENT TEST RESULTS

Corrosion Resistance

BASF / Chemetall Shanghai · Report 20260104 · Feb 2026

ISO 9227 CASS — 720 hours with 0.5 mm scribe

6 of 6 panels PASSED

Avg. creep from scribe: 1.8 – 2.7 mm (criterion < 3 mm)

Coating Adhesion

TIGER Surface Technology · Report NE202510 · Dec 2025

GB/T 5210 pull-off · Threshold ≥ 5 MPa

6 of 6 panels PASSED

Pull-off strength: 13.1 · 13.9 · 18.3 · 20.3 · 21.3 · 21.7 MPa

COATING SYSTEM

Powder	TIGER Drylac 069/80373 (super-durable polyester)
Pretreatment	Silane or zinc phosphate + cathodic e-coat (~30 µm)
Total DFT tested	194 – 222 µm (7.6 – 8.7 mil)
Cure	200 °C for 15 minutes
Standard finish	Matte black on iron door and frame

WHAT TO TELL A HOMEOWNER

Built to commercial standards.

The finish meets the same performance benchmarks used on high-end commercial storefronts and curtain wall.

Tested where it matters.

Independent labs verified corrosion resistance and coating adhesion — not just a manufacturer claim.

Engineered to last.

Super-durable polyester powder over pretreated iron, applied 5–7× thicker than a standard architectural coating.

GLASS EQUIVALENCY CHART

Our Low-E Glass, In U.S. Terms.

Elevated Entries units are glazed with the same performance-class Low-E coatings as the two dominant U.S. glass makers — Cardinal Glass and Vitro (PPG Solarban).

STANDARD LOW-E

AGC Low-E (soft-coat)

≈ Cardinal LoE²-272 · ≈ PPG Solarban 60

VT ≈ **72%** SHGC ≈ **0.41**

Balanced daylight and heat control. The default across most U.S. residential windows.

UPGRADED LOW-E

PPG Solarban T70

≈ Cardinal LoE³-366 · ≈ PPG Solarban 70 (identical)

VT ≈ **65%** SHGC ≈ **0.27**

Maximum solar-heat rejection with high visible light. Southern exposures, hot climates.

COATINGS ON OUR NFRC CERTIFICATES

Supplier code	Actual product	Cardinal equivalent
SB60	PPG Solarban 60	LoE ² -272
SB90	PPG Solarban 90	LoE ³ -366 + i89
CED 13-56	Cardinal LoE ³ -366*	LoE ³ -366 (native)
BJ52s-7	CSG triple-silver	LoE ³ -366 class
TNG11-89E	Taiwan Glass single-silver	LoE-180 / entry LoE ²
planibelg	AGC Planibel G hard-coat	LoE-180 (pyrolytic)

* "CED" is Cardinal's own IGDB filename prefix; the CED 13-56 line on our NFRC certificates confirms genuine Cardinal LoE³-366 was tested in Elevated Entries units.

NFRC-CERTIFIED PERFORMANCE

Configuration (casement XIA-M-6)	U	SHGC	VT
SB60 + Argon + clear lami	0.35	0.29	0.52
Cardinal LoE ³ -366 (triple-pane)	0.34	0.17	0.20
SB90 + Argon + clear lami	0.35	0.18	0.38

THE CARDINAL LOE LADDER

- LoE-180** Hard-coat pyrolytic. Passive/high-solar-gain. Northern climates.
- LoE²-270** Double-silver, slightly lower VT than 272. Same performance class.
- LoE²-272** Double-silver. The most-specified U.S. residential Low-E.
- LoE³-366** Triple-silver. Cardinal's top solar-control coating.
- LoE-i89 add-on** #4-surface coating that drops U-factor further — pairs with 272 or 366.

WHY THIS MATTERS

Same performance class.

Cardinal, Vitro/PPG, and AGC all produce sputtered Low-E coatings to the same IGDB spectral standard.

Third-party verified.

Every configuration on our NFRC certificates was simulated with genuine Cardinal or PPG spectral data.

Substitution-friendly spec.

If a project calls out Cardinal LoE³-366 by name, we can quote that exact glass — not a substitute.

WHAT TO TELL A HOMEOWNER

Familiar glass, imported doors.

The Low-E in your Elevated Entries door is the same class Andersen, Pella, and Marvin use — Cardinal LoE or PPG Solarban equivalents.

NFRC certified.

Every unit ships with an NFRC-registered rating for U-factor, SHGC, and VT so it plugs straight into any energy code.

Upgrade path.

Standard build ships with a LoE²-272 equivalent; upgrade to a LoE³-366 equivalent for hot climates or big south glass.