GEALAN
INNOVATION MIT SYSTEM
GEALAN-SMOOVIO®
A European-style sliding patio door. Engineered for the American home.

THE SYSTEM

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A two or four panel sliding door: up to 16 ft wide, 8 ft tall.

A sliding door built for architectural openings: two panels up to 13 ft wide, four panels up to 16 ft, with heights to 8 ft. Turn the handle and the panel lifts off its weather seals onto rollers, glides along the track, and re-seats tight on close. Large-format glazing that operates with one hand.

PVC FRAME

TRIPLE-GLAZING READY

STEEL-REINFORCED

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A CONTEMPORARY UPVC SLIDING PLATFORM

GEALAN-SMOOVIO® sliding door — a clean, full-wall opening in a high-performance uPVC profile.

FRAME PROFILE	150 mm / 6 in
SASH PROFILE	74 mm / 3 in
GLAZING	Up to 1⅛ in IG
REINFORCEMENT	Galv. steel + alum.
OPENINGS	XO; OX; OXXO

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INSIDE THE FRAME

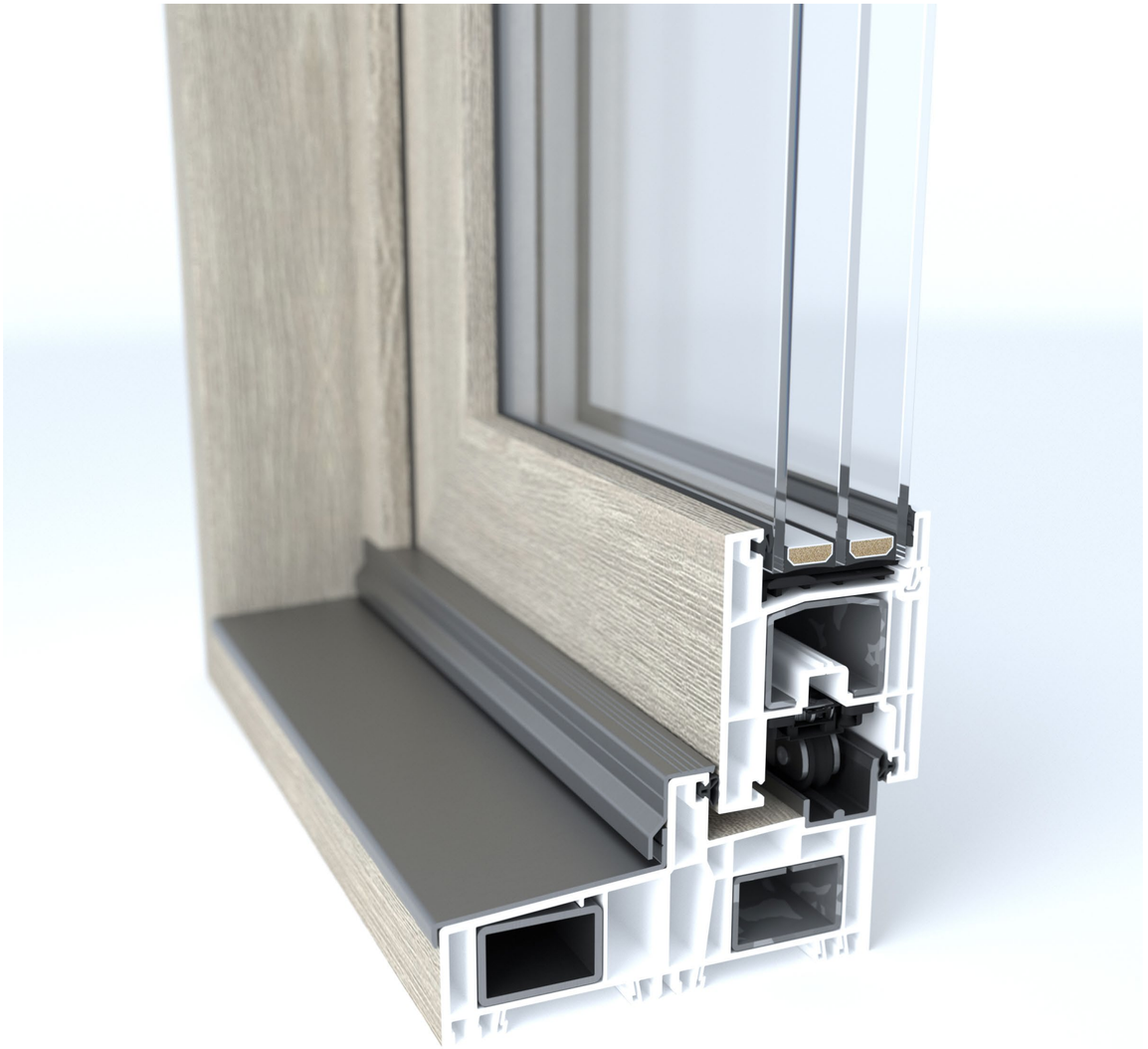
Seven chambers. Two metals.

FRAME 6 in extruded uPVC, thermally welded at all corners.

STEEL Galvanized-steel reinforcement in jambs, head, sill, and stiles.

ALUMINUM Secondary chamber resists structural load at full size.

SEALS Rubber seal between frame and sash for great water and air tightness performance



NFRC PERFORMANCE

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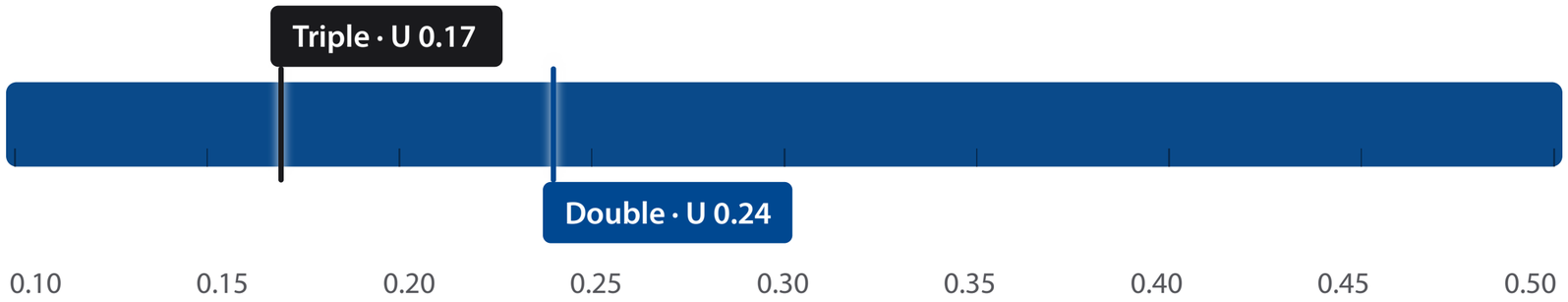
U-factor across the full NFRC scale: double and triple builds.

U-FACTOR · BTU/(h·ft²·°F) · LOWER IS BETTER



BEST DOUBLE-PANE

U 0.24 BTU / (h · ft² · °F)

Energy Star in Southern, South-Central, and North-Central zones.

BEST TRIPLE-PANE

U 0.17 BTU / (h · ft² · °F)

Star in **all four U.S. zones**, including Northern.

NFRC METRIC	GEALAN-SMOOVIO®
SHGC (whole window)	**0.16 – 0.31**
Visible transmittance	**0.43 – 0.55**
Air leakage (NFRC 400)	**<0.01 cfm/ft²**
Condensation Resistance	**≥ 60**
Energy Star eligibility	**All U.S. zones**

PASSIVE HOUSE READY

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PHIUS-track performance recommended for climate zones 0 through 4B.

Certification thermal modeling across four glazing builds. Whole-window U-factors below the PHIUS Maximum across the warm and mixed half of the U.S.

GLAZING BUILD	SHGC	WHOLE DOOR U BTU/(h·ft²·°F)	ZONES 0–2	ZONE 3C	ZONE 3B	ZONE 3A	ZONES 4C/5C	ZONES 4A/4B
5 mm LoE270 / 5 mm LoE180 / 5 mm i89	0.31	**0.17**	✓	✓	✓	✓	✓	✓
5 mm LoE366 / 5 mm LoE180 / 5 mm i89	0.23	**0.17**	✓	✓	✓	✓	✓	✓

PERFORMANCE ABOVE PREMIUM VINYL SLIDERS

Three numbers that put GEALAN-SMOOVIO® in the commercial-aluminum bracket.

AIR LEAKAGE

A near-zero envelope

<0.01 cfm/ft²

30× tighter than the AAMA max

Builder-grade vinyl sliders: **0.10 – 0.30 cfm/ft²**

Premium vinyl sliders: **0.05 – 0.10 cfm/ft²**

AAMA max: **0.30 cfm/ft²**

DESIGN PRESSURE

Above the aluminum range

±55 psf

~Category 4 hurricane wind

Builder-grade vinyl: **±15 – 30 psf**

Premium vinyl sliders: **±30 – 40 psf**

Aluminum sliders: **±40 – 60 psf**

WATER PENETRATION

Tested 2.4× the NAFS minimum

10.65 psf

CW class water-test pressure

NAFS R class minimum: **2.9 psf**

LC class minimum: **3.75 psf**

CW class minimum: **4.5 psf**

CATEGORY POSITIONING

GEALAN-SMOOVIO® takes the thermal performance of vinyl and the scale & sightlines of aluminum.

	Mass-market vinyl	Modern aluminum	GEALAN-SMOOVIO®
Max width at PG50	6 – 8 ft typical	12+ ft	**13.1 ft**
Thermal performance	Good	Poor (cold frame)	**Excellent**
Sightlines	Bulky	Slim	**Slim**
NAFS class	R / LC	CW / AW	**CW**

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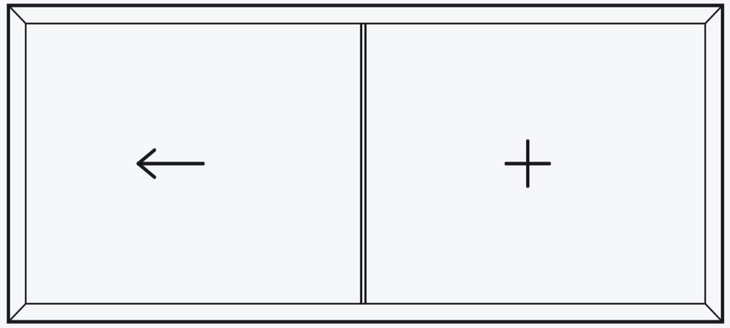
TWO CONFIGURATIONS COVER THE FULL SIZE RANGE

Scheme A and Scheme C — from 13 ft two-panel to 16 ft four-panel.

SCHEME A (XO / OX)

Two-panel. One sliding, one fixed.



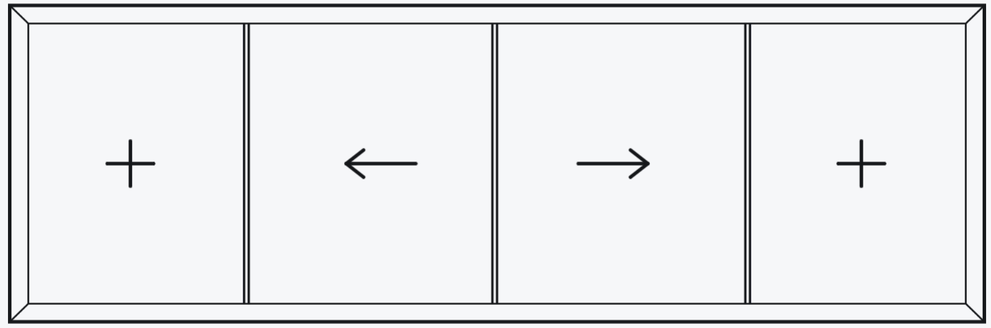
MAXIMUM OPENING

13 × 8 ft

One operating panel glides on the inboard track; the fixed panel anchors the assembly. Active sash left or right.

SCHEME C (OXXO)

Four-panel. Two sliding from the center.



MAXIMUM OPENING

16 × 8 ft

Two outer panels anchor the assembly; the inner pair slides apart from the center for a full-width opening.

COLOR OPTIONS

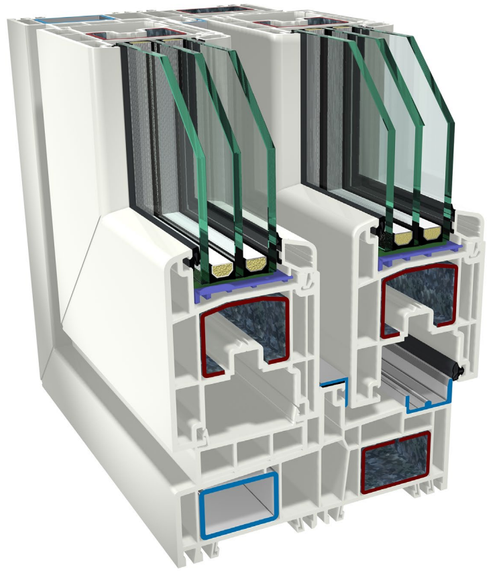
Five colors. Three finish options.

Specify the profile three ways: **pure white**, **one-side lamination** (color outside, white inside), or **two-side lamination** — which unlocks a **grey base profile** so the cross-section matches the finish at every cut and joint.

White | Sandstone | Anthracite Grey | Dark Bronze | Black Smooth

FINISH
White
One-side laminated

BASE PROFILE
White



FINISH
Two-side laminated

BASE PROFILE
Grey

IN SUMMARY

GEALAN-SMOOVIO® delivers.

Commercial-grade performance

Class CW certification clears multi-family and commercial specifications.

Residential-scale flexibility

Mid-priced PVC frame, woodgrain finishes, drop-in retrofit.

Exceptional airtightness

<0.01 cfm/ft^2 — 30× tighter than the AAMA maximum.

Large openings, no compromise

PG50 at over 13 ft wide — built for modern, open architecture.