



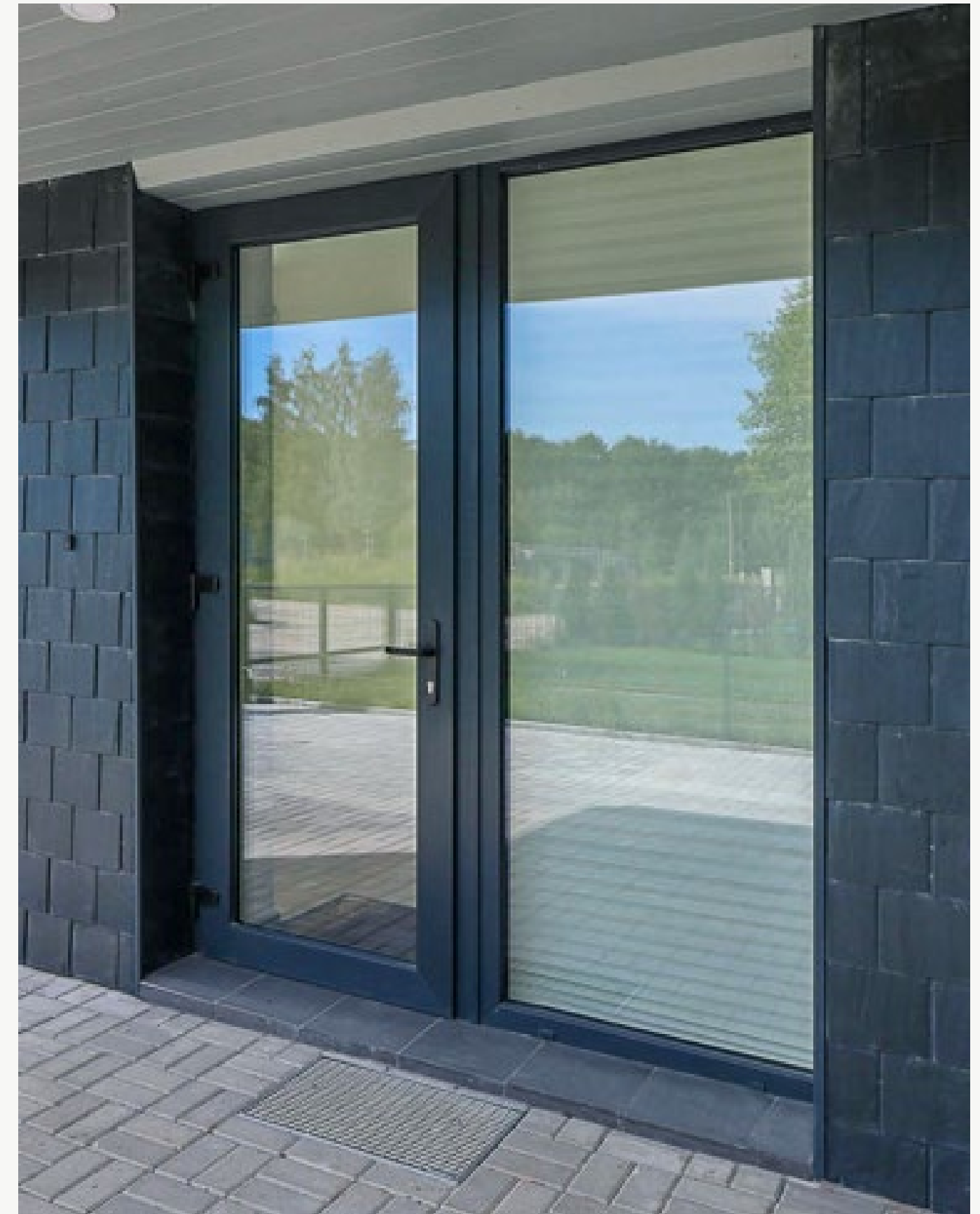
DOORS by GEALAN

European performance,
US tested.

Inswing & Outswing

Up to 8' Tall

PHIUS Performance

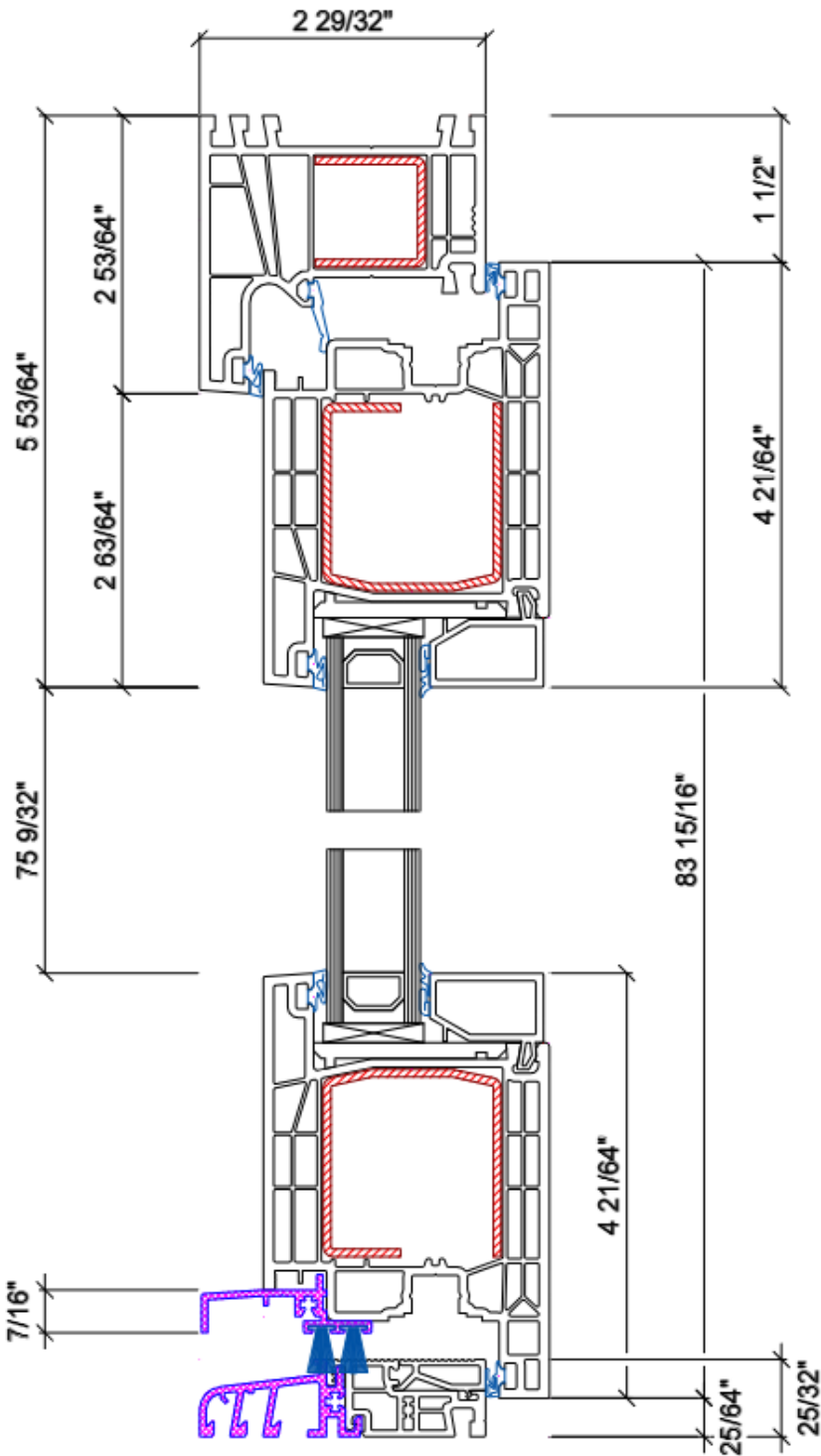




A contemporary uPVC door platform

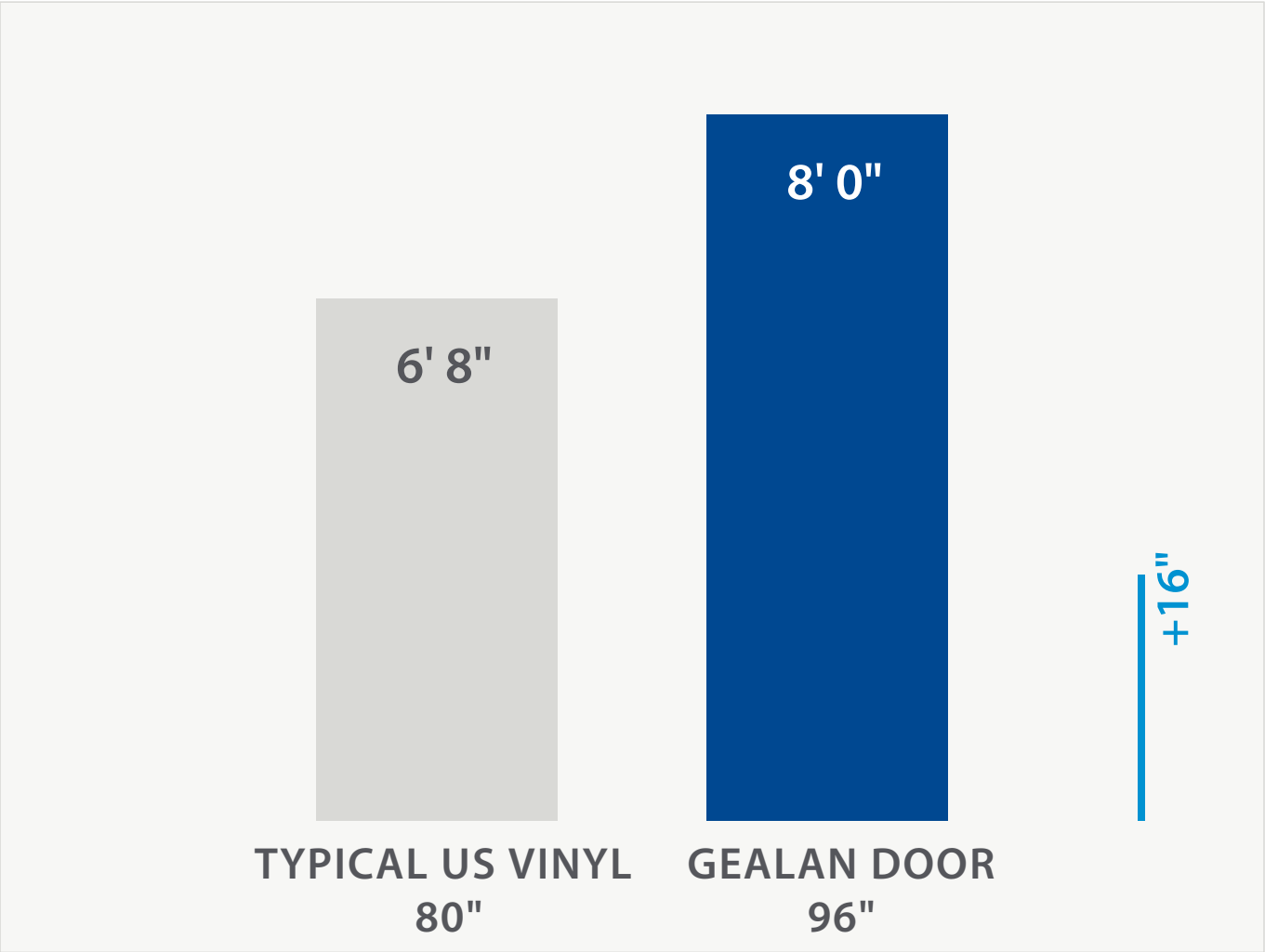
GEALAN-LINEAR®'s newest square-edge door platform — a clean, modern face with aluminum-like sightlines, delivered in a high-performance uPVC profile.

FRAME DEPTH	3"	THRESHOLD	3/4"
NUMBER OF CHAMBERS	6	GLAZING	Up to 2"
REINFORCEMENT	Galv. steel	OPENINGS	Inswing, Outswing





One door system. **Configurable across the entire opening schedule.**



01 Inswing & outswing, single or double panel

A single product line covers entry, balcony, and patio applications.

02 Heights up to 8 feet (96")

16 inches taller than the standard US vinyl entry door.

03 PVC with steel reinforcement

Multi-point locking, aluminum threshold, factory-prepped hardware.



Class **LC-PG50** · tested at **45¼" × 96"**

DESIGN PRESSURE ±50.13 psf NAFS PG50 minimum requirement met across the full opening.	STRUCTURAL TEST PRESSURE ±75.19 psf No permanent deformation; door operable post-test.
WATER PENETRATION 7.52 psf · no leakage Tested per ASTM E331 within the NAFS framework.	FORCED ENTRY & CYCLE LIFE 300 lbf · 100k cycles Passed AAMA 1304; cycle-tested per AAMA 920.

Most US vinyl entry doors don't reach PG50 above 80". **GEALAN delivers it at 96"**.



AIRTIGHTNESS

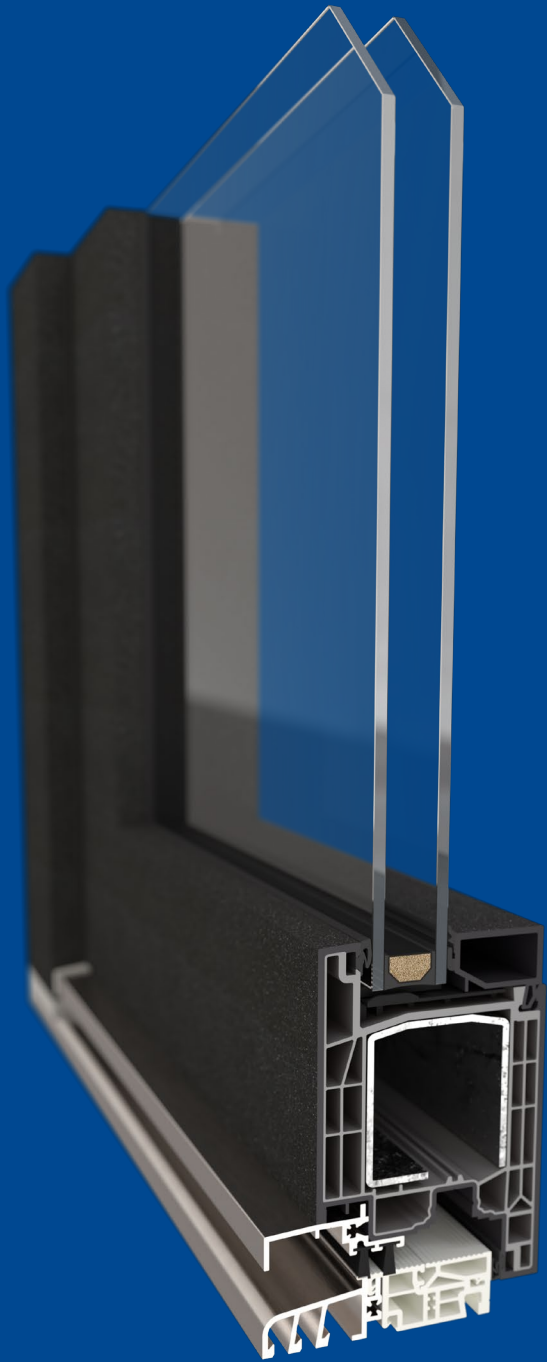
5× tighter than the Energy Star benchmark.

AIR INFILTRATION

0.05

cfm / ft² · at 1.57 psf

Exfiltration: 0.02 cfm/ft²



GEALAN DOORS

Tested · best-in-class

Energy Star · typical

Range across qualified doors

NAFS PG50 · allowable

Maximum permitted by code



For Passive House and net-zero work, the door is usually the weak link in the envelope. **Not this one.**



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

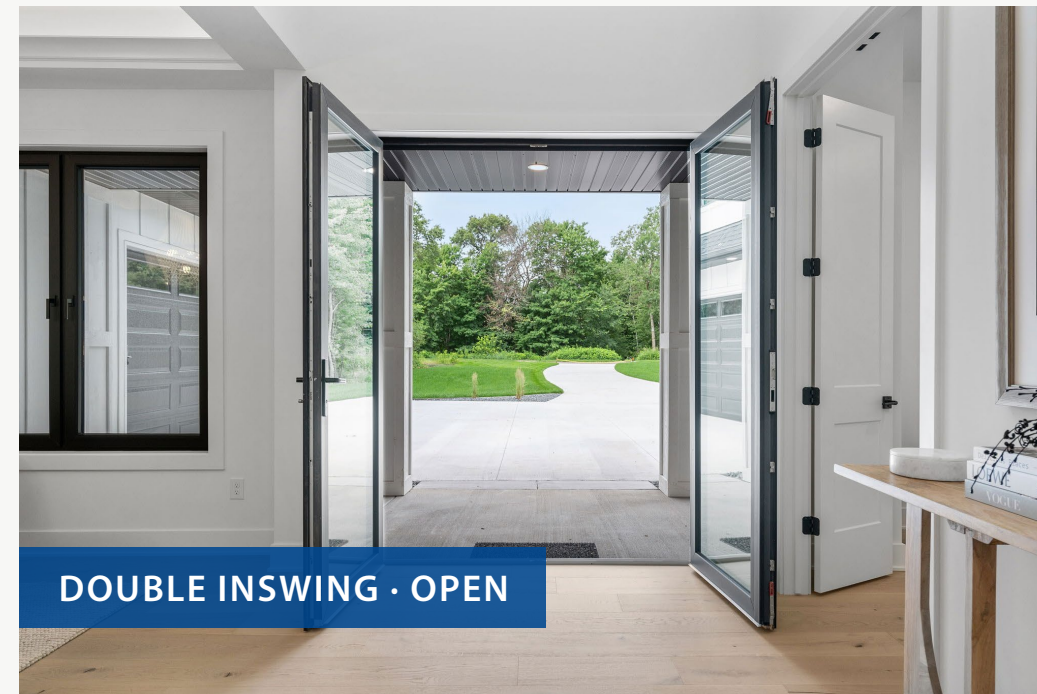
Pre-certification thermal modeling across four glazing builds. Whole-window U-factors below the PHIUS Maximum across the warm and mixed half of the U.S.

GLAZING BUILD	SHGC	WHOLE DOOR U	ZONES 0-2	ZONE 3C	ZONE 3B	ZONE 3A	ZONES 4C/5C	ZONES 4A/4B
	CENTER-OF-GLASS	BTU / h · ft² · °F						
5 mm LoE270 / 5 mm LoE180 / 5 mm i89	0.31	0.18	✓	✓	✓	✓	✓	✓
5 mm LoE272 / 5 mm LoE180 / 5 mm i89	0.35	0.18	✓	✓	✓	✓	✓	✓
5 mm LoE366 / 5 mm LoE180 / 5 mm i89	0.23	0.17	✓	✓	✓	✓	✓	✓

IN PLACE



Configurations in place — **same engineered system underneath.**





Five things that don't usually come **in one door.**

SIZE	STRUCTURAL	AIR	THERMAL	PHIUS
8' tall	PG50	0.05 cfm/ft²	U 0.17 – 0.24 BTU/(h·ft²·°F)	Zones 0 – 4
96" — beyond standard US vinyl.	Tested at 45¼" × 96" inswing.	5× tighter than Energy Star.	Triple- and dual-pane configurations.	Pending final certification.

Ready to **spec the GEALAN doors** on your next project?