

MOSAIC
WINDOWS + DOORS

TECHNICAL CATALOG

EXTERIOR + INTERIOR SYSTEMS

One aluminum system for the whole opening.



MOSAIC
WINDOWS + DOORS

Engineered for Performance. Delivered with Precision.

Our purpose goes beyond building exceptional windows and doors. We're here to unlock new possibilities for the spaces people treasure most. At Mosaic, we're driven to reimagine how homes feel—bringing in more natural light, fresh air, and wide-open views that transform everyday living.

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AXIOM 810TT

TILT + TURN WINDOW

DESIGNED FOR VIEWS. ENGINEERED FOR PERFORMANCE.

The Axiom 810TT Tilt + Turn Window combines European engineering with refined aesthetics to deliver exceptional performance, flexibility, and comfort. With dual function operation, thermally optimized profiles, and insulated glazing, Axiom 810TT elevates both residential and commercial spaces.

PRODUCT SPECIFICATIONS



Technical Specifications

Frame depth	81 mm (3.19")
Frame sight line	26 mm (1.02")
Open sash sight line	42 mm (1.65")
Glazing bead sight line	24 mm (0.94")
Aluminum thickness	1.8 mm (0.07")

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation



PERFORMANCE INFORMATION

U-VALUE

0.17 – 0.30
Btu/hr-ft²-°F

AIR LEAKAGE

0.07
L/S·m² (0.014 cfm/ft²)

WIND PRESSURE

±2880
Pa (60.1 psf)

WATER PENETRATION

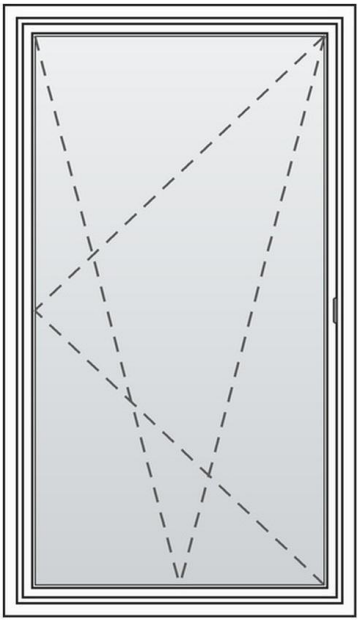
720
Pa (15.0 psf)

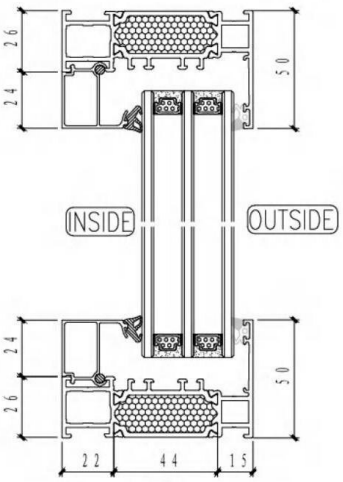
SOUND INSULATION

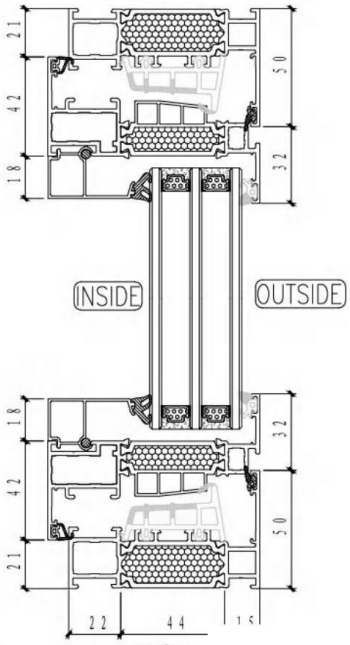
STC 37
ASTM E413-22

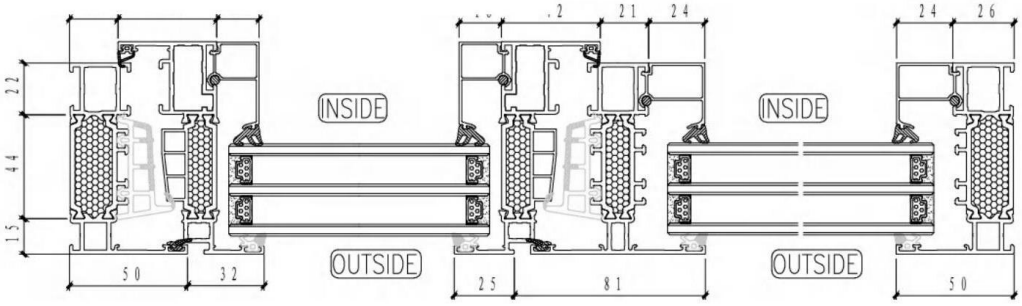
Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS









HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AXIOM 810TTS

TILT + TURN WINDOW · SLIMLINE

ONE FRAME, THREE WAYS TO OPEN.

The Axiom 810TTS shares the 85 mm frame of the 810FS and opens tilt-and-turn, tilt-only, or as an inward casement pair. Tested at 1200 × 1800 mm to ±2400 Pa with no water penetration at 580 Pa.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	85 mm (3.35")
Frame sight line	48 mm (1.89")
Open sash sight line	24.7 mm (0.97")
Max opening sash	1200 x 1800 mm (47 x 71")
Aluminum thickness	2.0 mm (0.08")

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Hardware	SIEGENIA / HOPPE / Sobinco

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for U-factor and sound

PERFORMANCE INFORMATION

U-FACTOR

0.21 – 0.34
Btu/hr-ft²-°F

AIR LEAKAGE

≤ 0.30
cfm/ft² @ 1.57 psf

WIND PRESSURE

±2400
Pa (50.1 psf)

WATER PENETRATION

580
Pa (12.1 psf)

SOLAR HEAT GAIN

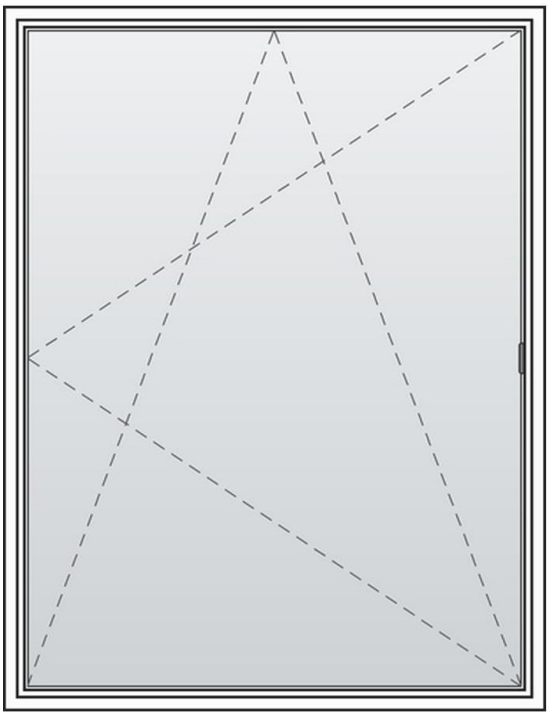
0.17 – 0.49

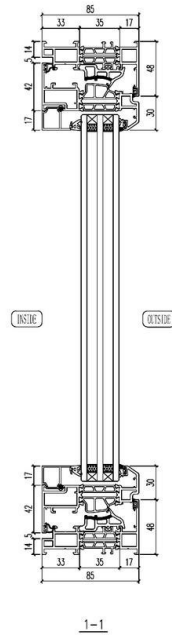
VISUAL TRANSMITTANCE

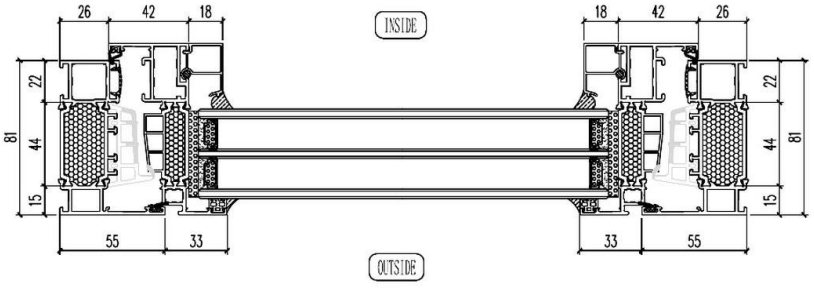
0.28 – 0.61

Ranges span the available glazing options. Wind and water are tested values.

TECHNICAL DRAWINGS







HARDWARE COLOR OPTIONS

- WHITE
- NICKEL
- BLACK

AXIOM 810C

CASEMENT WINDOW

ARCHITECTURAL FLEXIBILITY MEETS PRECISION-ENGINEERED PERFORMANCE.

The Axiom 810C Casement Window opens on a full side hinge for maximum ventilation and unobstructed egress. Simulated to ANSI/NFRC 100/200/500 procedures, its validated U-factor and solar heat gain profile make it a dependable specification for energy-conscious projects.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	81 mm (3.19")
Frame sight line	55 mm (2.17")
Sash sight line	76 mm (2.99")
Reference unit	600 x 1500 mm (24 x 59")
Glass makeup	5+12Ar+5+12Ar+5 mm — triple as tested

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

U-VALUE

0.31
Btu/hr-ft²-°F

SOLAR HEAT GAIN COEFFICIENT

0.23

VISUAL TRANSMITTANCE

0.40

CONDENSATION INDEX

68

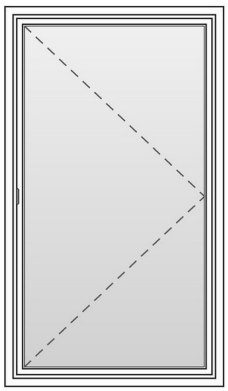
SOUND INSULATION

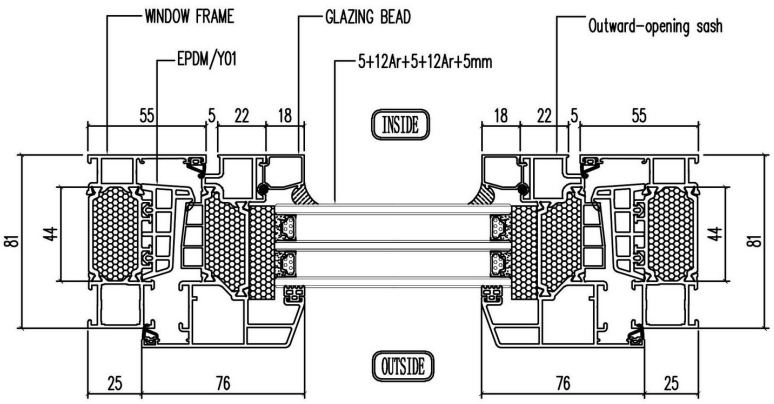
STC 37
ASTM E413-22

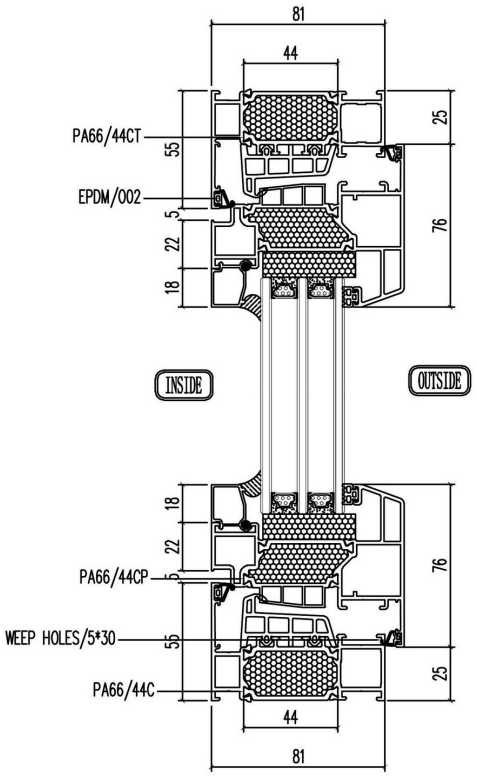
Performance ratings are based on triple-pane glazing. Double-pane values available on request.



TECHNICAL DRAWINGS







HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AXIOM 810CS

CASEMENT WINDOW · SLIMLINE

SIDE-HUNG, INWARD OPENING.

The Axiom 810CS is the 810TTS profile configured as an inward-opening casement — the same 85 mm frame, 48 mm sight line and hardware, hinged on one side. Tested as a dual-action window at 1200 × 1800 mm.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	85 mm (3.35")
Frame sight line	48 mm (1.89")
Open sash sight line	24.7 mm (0.97")
Max opening sash	1200 x 1800 mm (47 x 71")
Aluminum thickness	2.0 mm (0.08")

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Hardware	SIEGENIA / HOPPE / Sobinco

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for U-factor and sound

PERFORMANCE INFORMATION

U-FACTOR

0.21 – 0.34
Btu/hr-ft²-°F

AIR LEAKAGE

≤ 0.30
cfm/ft² @ 1.57 psf

WIND PRESSURE

±2400
Pa (50.1 psf)

WATER PENETRATION

580
Pa (12.1 psf)

SOLAR HEAT GAIN

0.17 – 0.49

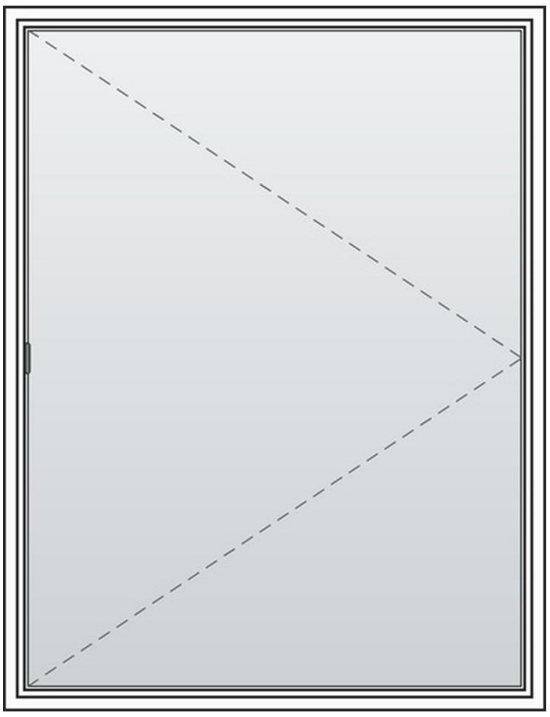
VISUAL TRANSMITTANCE

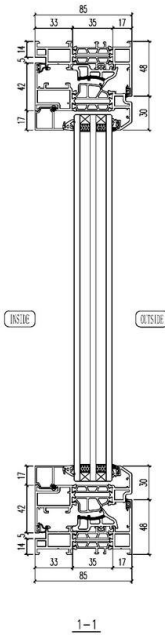
0.28 – 0.61

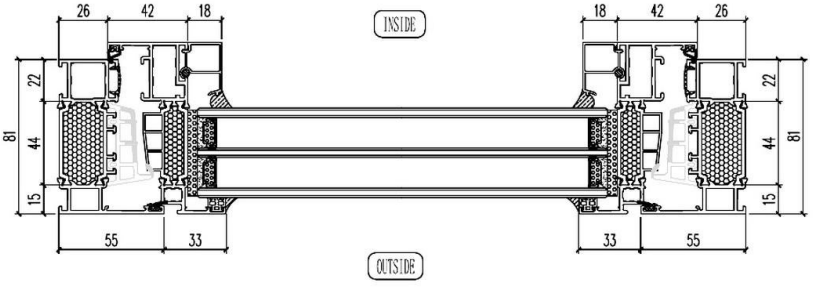
Ranges span the available glazing options. Wind and water are tested values.



TECHNICAL DRAWINGS







HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AXIOM 810A

AWNING WINDOW

WEATHER-TIGHT VENTILATION, RAIN OR SHINE.

The Axiom 810A Awning Window is top-hinged and opens outward, shedding rain while ventilation continues uninterrupted. Multi-cavity extrusion and a PA66 thermal strip balance insulation with airflow across bathrooms, kitchens, and high clerestory openings.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	81 mm (3.19")
Frame sight line	31 mm (1.22")
Open sash sight line	60 mm (2.36")
Glazing bead sight line	24 mm (0.94")
Max sash size	2000 x 2000 mm (79 x 79")
Wind pressure resistance	±2400 Pa (50.1 psf)
Water penetration resistance	580 Pa (12.1 psf)
Air leakage resistance	0.16 / 1.32 L/S·m² (0.031 / 0.26 cfm/ft²)

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

U-VALUE

0.31
Btu/hr-ft²-°F

SOLAR HEAT GAIN COEFFICIENT

0.23

VISUAL TRANSMITTANCE

0.40

CONDENSATION INDEX

68

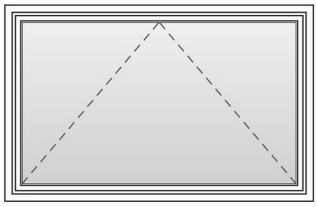
SOUND INSULATION

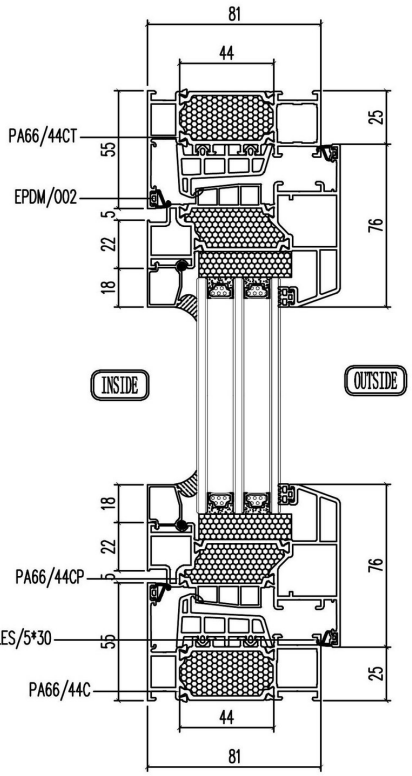
STC 37
ASTM E413-22

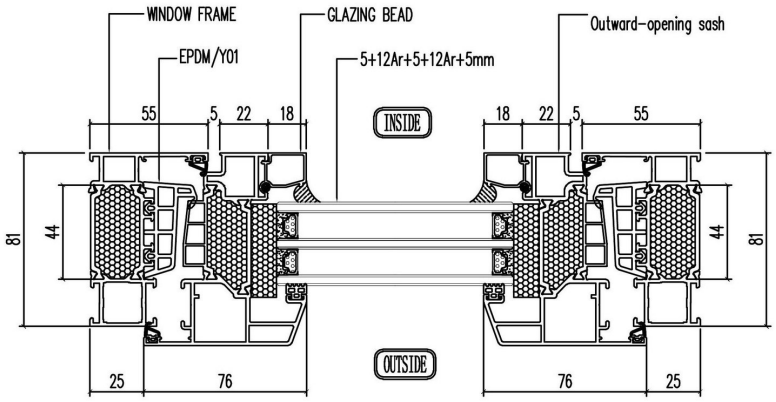
Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS









HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AXIOM 810F

FIXED WINDOW

DESIGNED FOR VIEWS. ENGINEERED FOR PERFORMANCE.

The Axiom 810F Fixed Window delivers uninterrupted views with a thermally broken aluminum frame engineered for maximum glazing area. An 81 mm (3.19") frame depth and triple-sealing architecture provide outstanding thermal insulation and structural capacity across large spans.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	81 mm (3.19")
Frame sight line	26 mm (1.02")
Glazing bead sight line	24 mm (0.94")
Max fixed sash	6000 x 3300 mm (236 x 130")
Aluminum thickness	1.8 mm (0.07")

Configuration Details

Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

AIR LEAKAGE

0.04
L/S·m² (0.008 cfm/ft²)

WIND PRESSURE

±2880
Pa (60.1 psf)

WATER PENETRATION

720
Pa (15.0 psf)

FRAME DEPTH

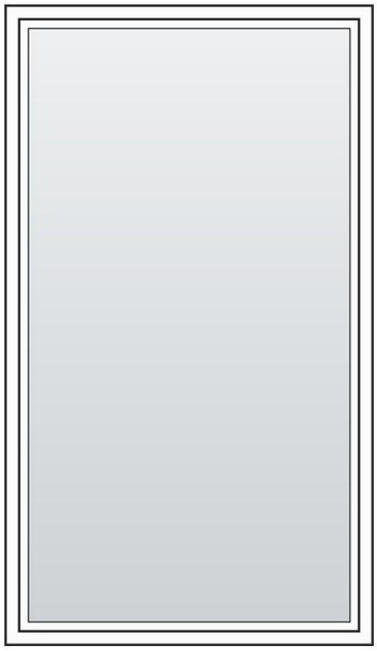
81
mm (3.19")

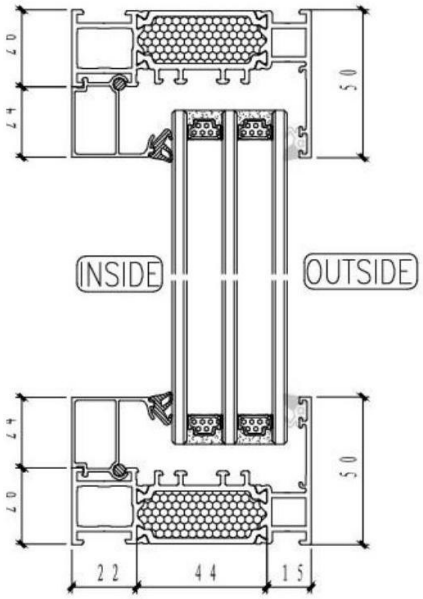
SOUND INSULATION

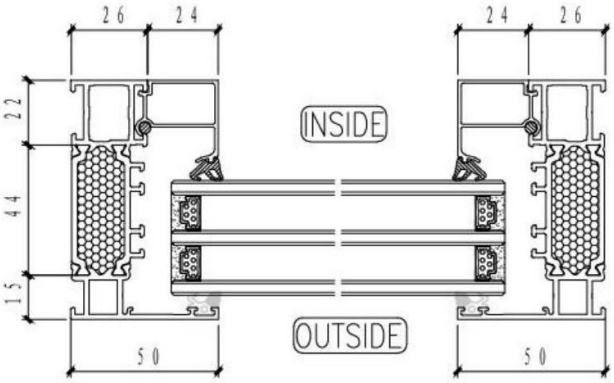
STC 37
ASTM E413-22

Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS







AXIOM 810FS

FIXED WINDOW · SLIMLINE

MAXIMUM GLASS. MINIMUM FRAME.

The Axiom 810FS carries an 85 mm thermally broken frame with a 48 mm sight line — the slimmest fixed lite in the range. Tested at 1500 × 1500 mm to ±2880 Pa with no water penetration at 720 Pa.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	85 mm (3.35")
Frame sight line	48 mm (1.89")
Glazing bead sight line	24 mm (0.94")
Max fixed sash	6000 x 3300 mm (236 x 130")
Aluminum thickness	2.0 mm (0.08")

Configuration Details

Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for U-factor and sound

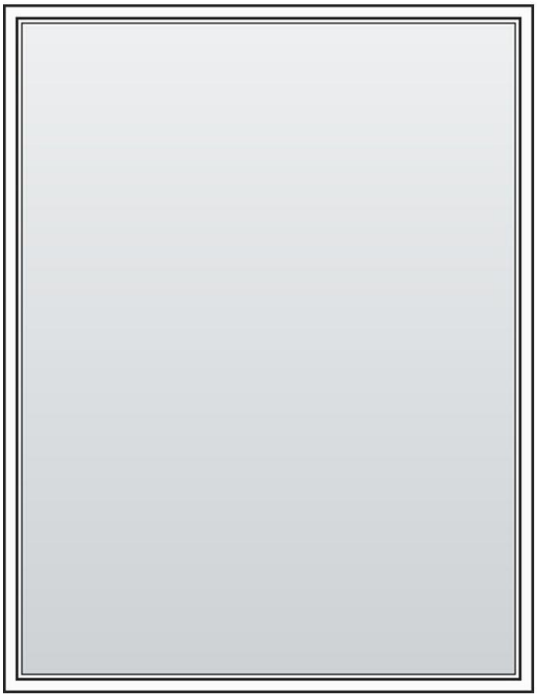
PERFORMANCE INFORMATION

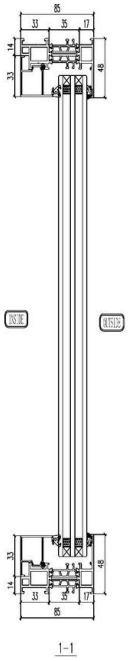
U-FACTOR	AIR LEAKAGE	WIND PRESSURE
0.18 – 0.34 Btu/hr-ft²-°F	**≤ 0.30** cfm/ft² @ 1.57 psf	**±2880** Pa (60.1 psf)

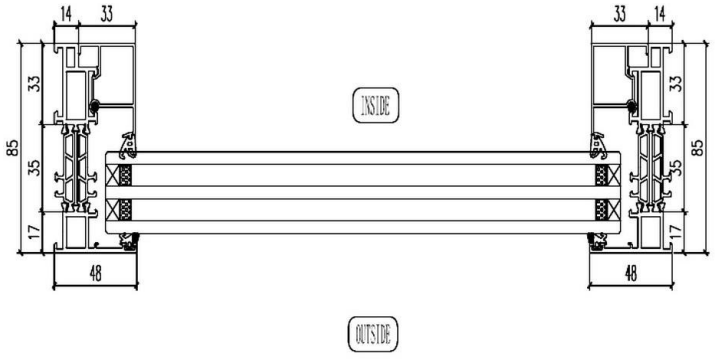
WATER PENETRATION	SOLAR HEAT GAIN	VISUAL TRANSMITTANCE
720 Pa (15.0 psf)	**0.18 – 0.54**	**0.32 – 0.67**

Ranges span the available glazing options. Wind and water are tested values.

TECHNICAL DRAWINGS







AXIOM 830DH

DOUBLE HUNG WINDOW

CLASSIC LOOK, REDEFINED FOR MODERN PERFORMANCE.

The Axiom 830DH Double Hung Window combines traditional proportions with a thermally broken aluminum profile. Operable top and bottom sashes provide flexible ventilation, while tilt-in functionality, smooth balances, and durable powder-coated finishes ensure easy cleaning.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	83 mm (3.27")
Frame face width	64.55 mm (2.54")
Sash section height	47.62 mm (1.87")
Meeting rail height	50.6 mm (1.99")
Jamb depth	60.84 mm (2.40")

Configuration Details

Screen	Optional inset screen
Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Drainage	Hidden / weep holes

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

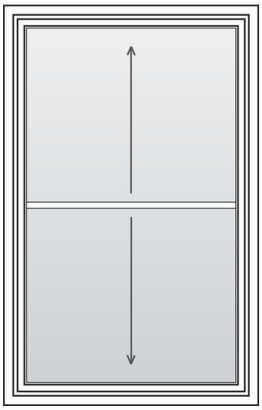
FRAME DEPTH	FRAME FACE WIDTH	MEETING RAIL
83 mm (3.27")	**64.55** mm (2.54")	**50.6** mm (1.99")

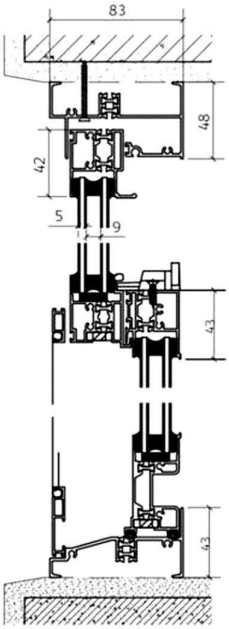
WEATHER STRIP	SOUND INSULATION	OPERATION
EPDM	**STC 37** ASTM E413-22	**Dual-Sash** Balanced vertical travel

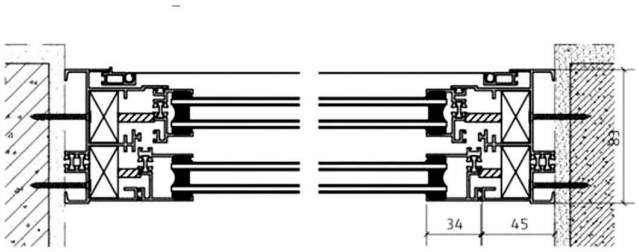
Performance ratings are based on triple-pane glazing. Double-pane values available on request.



TECHNICAL DRAWINGS







HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AXIS 810

SWING DOOR

REFINED ENTRY. ENGINEERED PERFORMANCE.

The Axis 810 Swing Door combines clean architectural lines with thermally broken aluminum construction, insulated Low-E glazing, and compression-sealed weather protection. A multi-point locking system and customizable configurations deliver lasting security and efficiency.

PRODUCT SPECIFICATIONS





Technical Specifications

Frame depth	81 mm (3.19")
Door frame sight line	40 mm (1.57")
Open sash sight line	86 mm (3.39")
Low threshold	16 mm (0.63")
Aluminum thickness	2.2 mm (0.09")

Configuration Details

Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Hardware	Multi-point locking system

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

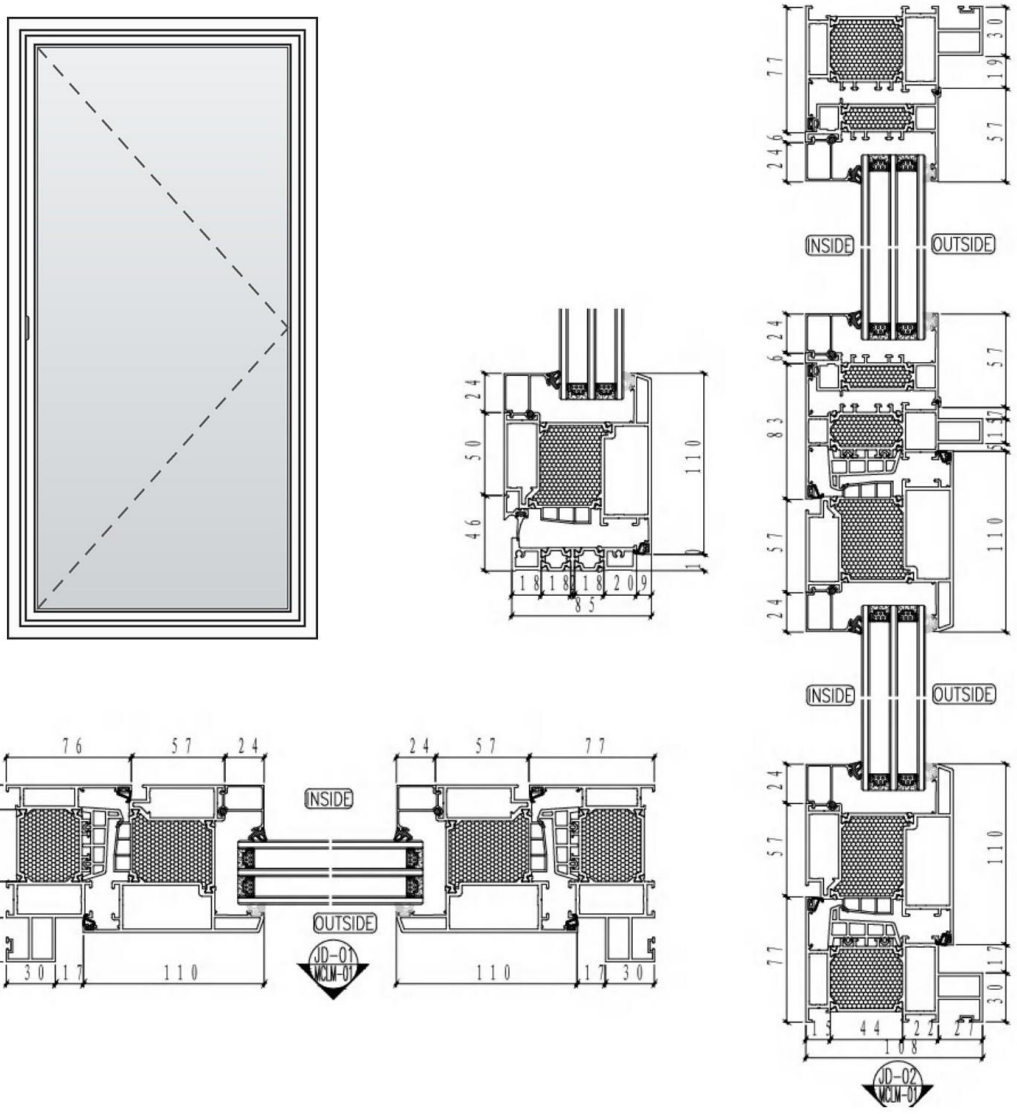
PERFORMANCE INFORMATION

AIR LEAKAGE	WIND PRESSURE	WATER PENETRATION
0.19 L/S·m² (0.037 cfm/ft²)	**±1920** Pa (40.1 psf)	**580** Pa (12.1 psf)

LOCKING	SOUND INSULATION	U-FACTOR
Multi-Point	**STC 37** ASTM E413-22	**0.46** Btu/hr-ft²-°F

Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS



HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AEROFOLD 880

BI-FOLDING DOOR

WIDE-OPEN LIVING, BEAUTIFULLY ENGINEERED.

The AeroFold 880 Bi-Folding Door creates expansive, unobstructed openings that connect interior and exterior spaces with ease. Panels run virtually unlimited in line and stack to one or both sides, so openings are limited by the structure rather than the system. Thermally broken aluminum frames, smooth-operating hardware, and refined finishes complete the assembly.

PRODUCT SPECIFICATIONS





Technical Specifications

Configuration	Multi-panel — unlimited in line
Stacking	One or both sides
Frame thickness	88 mm (3.46")
Tested unit	2600 x 2300 mm (102 x 91") — 2 fold + 1 hinged
Glazing	6+12A+6+12A+6 tempered triple
Thermal break	24 mm (0.94") PA66-GF25 nylon
Certification	NFRC CPD FWW-M-2

Glass (By Layer)

Tempered outer pane	6 mm (0.24")
Argon cavity	12 mm (0.47")
Tempered middle pane	6 mm (0.24")
Argon cavity	12 mm (0.47")
Tempered inner pane	6 mm (0.24")

Configuration Details

Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Hardware	Multi-point locking system

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 42 mm (1.65")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

U-FACTOR

0.33
Btu/hr·ft²·°F

SOLAR HEAT GAIN COEFFICIENT

0.25

VISUAL TRANSMITTANCE

0.37

CONDENSATION RESISTANCE

46

DESIGN PRESSURE

±1440
Pa (30.08 psf)

WATER PENETRATION

220
Pa (4.59 psf)

AIR LEAKAGE

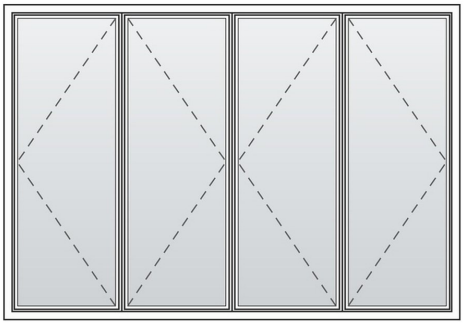
0.14
L/S·m² (+75 Pa)

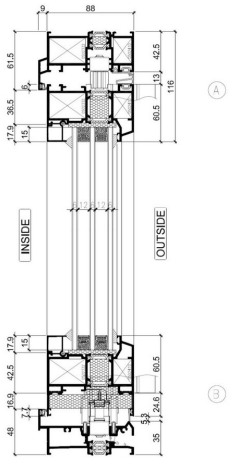
STRUCTURAL TEST

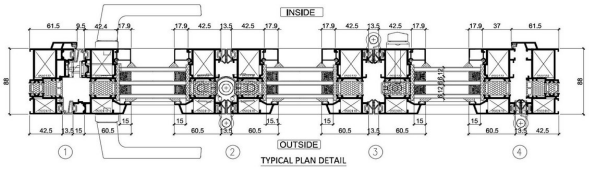
2160
Pa — Pass

Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS

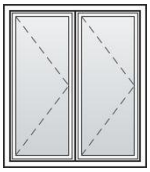




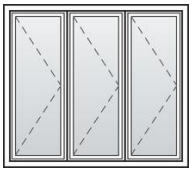


TYPICAL PLAN DETAIL

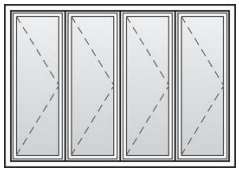
PANEL CONFIGURATIONS



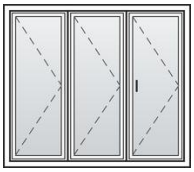
2+0



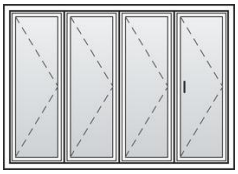
3+0



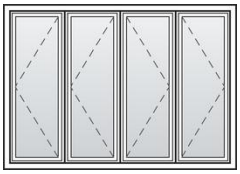
4+0



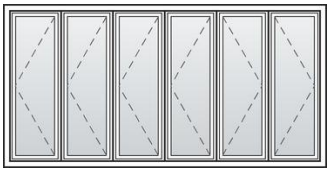
2+1



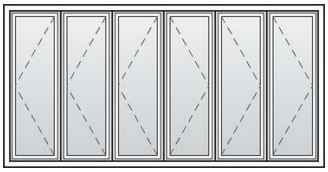
3+1



2+2



4+2



3+3

HARDWARE COLOR OPTIONS

WHITE

NICKEL

BLACK

AEROGLIDE 1500

PANORAMIC SLIDING DOOR

SEAMLESS TRANSITIONS. EFFORTLESS PERFORMANCE.

The AeroGlide 1500 Panoramic Sliding Door pairs expansive glass with a deep thermally broken frame to create a clean connection between indoor and outdoor spaces. A 150 mm (5.91") profile depth and wide multi-track sill deliver large panel spans, smooth-gliding operation, and a concealed drainage path that keeps the threshold weathertight.

PRODUCT SPECIFICATIONS



Technical Specifications

Frame depth	150 mm (5.91")
Overall sill width	218.2 mm (8.59")
Interlock stile	42.8 / 43.8 mm (1.69" / 1.72")
Meeting stile	25.9 mm (1.02")
Head rail height	60 mm (2.36")
Sill rail height	61.2 mm (2.41")
Configuration	2-panel sliding (XX)

Glass (By Layer)

Tempered outer pane	5 mm (0.20")
Argon cavity	16 mm (0.63")
Tempered inner pane	5 mm (0.20")
Gas fill	Argon 90%
Spacer	Warm edge / TPS

Configuration Details

Weather strip	EPDM composite foam
Thermal insulation strip	PA66-GF25 nylon
Aluminum alloy	6063-T5 / 6060-T66
Hardware	Multi-point locking system

Glass Composition

Coating	Low-E (Solarban 60 / 70)
Standard glazing	Double pane — 26 mm (1.02")
Optional glazing	Triple pane — 39 mm (1.54")
Performance	Optimized for superior U-factor and sound insulation

PERFORMANCE INFORMATION

CONFIGURATION
XX
2-panel sliding

FRAME DEPTH
150
mm (5.91")

SILL WIDTH
218.2
mm (8.59")

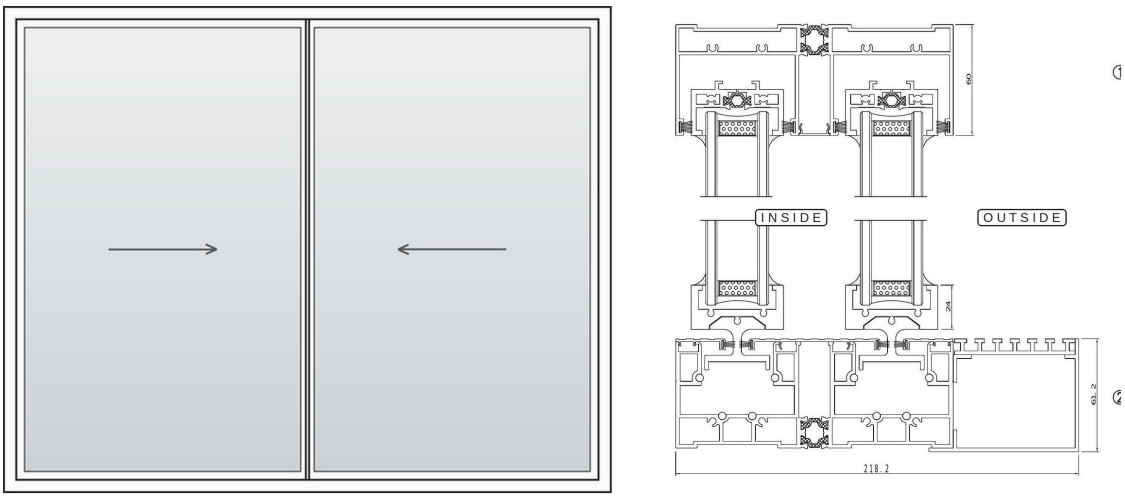
DRAINAGE
Concealed
Weep channel

SOUND INSULATION
STC 37
ASTM E413-22

OPERATION
Sliding
Multi-track, wide span

Performance ratings are based on triple-pane glazing. Double-pane values available on request.

TECHNICAL DRAWINGS



HARDWARE COLOR OPTIONS

WHITE

NICKEL

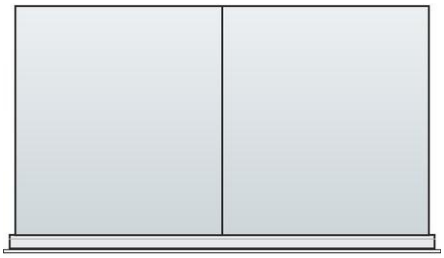
BLACK

EXTERIOR RAILING

ALUMINUM AND GLASS BALUSTRADE

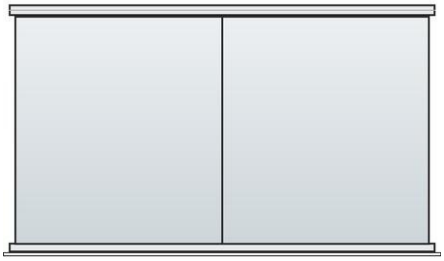
Aluminum alloy framing with tempered glass infill, for balconies, terraces, pool surrounds and garden edges. The system carries the same alloy, coatings and finish palette as the window and door range, so a railing specified alongside Mosaic openings matches them exactly.

CONFIGURATIONS



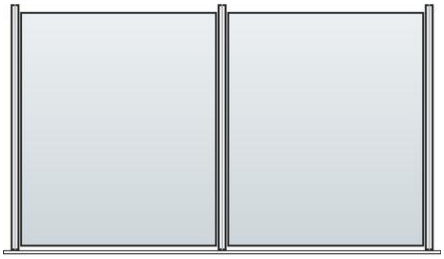
BASE CHANNEL

Frameless glass set into a continuous aluminum base channel. Nothing above the glass.



TOP RAIL

Glass with a continuous aluminum top rail, for a graspable handrail along the run.



POST AND INFILL

Glass infill between aluminum posts, for longer runs and stepped or raking edges.

WHERE IT IS USED

Balconies and terraces	Frameless glass keeps the view open from seated height.
Pool surrounds	Corrosion-resistant alloy and coatings for wet, chlorinated environments.
Garden and level changes	Defines an edge without closing the sightline across the site.
Commercial frontages	Amenity decks, walkways and roof terraces.

SPECIFYING EXTERIOR RAILING

Railing is engineered per project. Heights, glass thickness and fixing are set against the governing code and the structure it mounts to — confirm with your dealer before ordering.

SYSTEM

Framing	Aluminum alloy, thermally uncoupled — railing carries no insulating requirement
Glass	Tempered throughout. Clear or tinted; laminated where the code requires it
Finish	Matched to the exterior powder-coat palette, p. 35
Corrosion	Aluminum alloy and coating system rated for coastal and poolside exposure
Maintenance	No applied finish to reseal; wash down as for window frames
Fixing	Top-mounted to slab, or fascia-mounted to the edge — set per project

CONFIRMED PER PROJECT

The following are not published as standard figures. They depend on the opening, the governing code and the substrate, and are issued on the signed shop drawings.

- Guard height and the code it is assessed against
- Glass thickness, make-up and whether lamination is required
- Design load and the fixing schedule for the substrate
- Post spacing and maximum panel width
- Handrail profile where a graspable rail is required

SPECIFIED ALONGSIDE

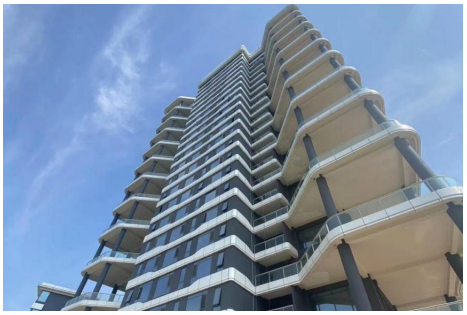
Railing is most often quoted with the openings it sits against. Common pairings:

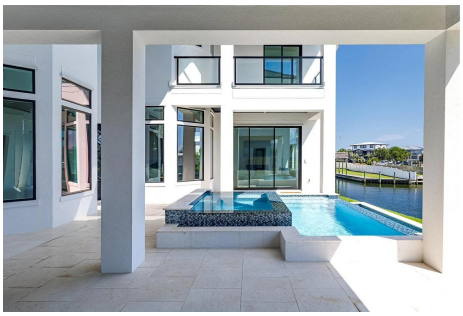
AeroFold™ 880	Terrace openings where the folding wall stacks back to an open edge — p. 22
AeroGlide™ 1500	Wide sliding spans onto a balcony or roof terrace — p. 24
Axis™ 810	Single and double leaf doors onto a deck or pool surround — p. 20

PROJECTS

Mosaic systems specified across residential and light commercial work — from full-height glazed elevations to discreet openings that disappear into the architecture.









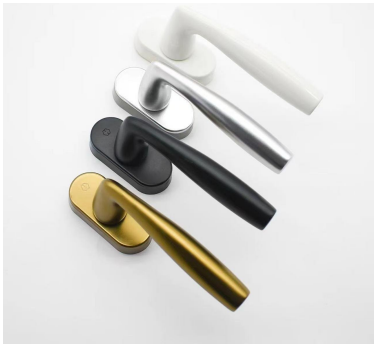





Photography represents completed installations. Configurations and finishes shown are project-specific; refer to the product pages for available options.

HARDWARE

Handles and locking hardware, in finishes matched to the frame palette.













HARDWARE PARTNERS

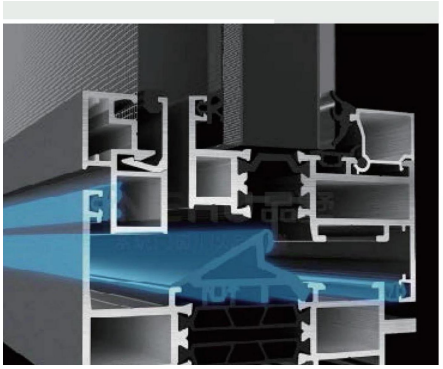
SIEGENIA® brings spaces to life

HOPPE®

CMECH

EPDM AUTOMOTIVE-GRADE SEALANT STRIP

Made of high-quality automotive-grade EPDM rubber with soft-hard co-extrusion and EPDM foaming, the seal is anti-aging and non-deformable, with strong resistance to temperature differential, good elasticity and enhanced thermal insulation and sealing performance.

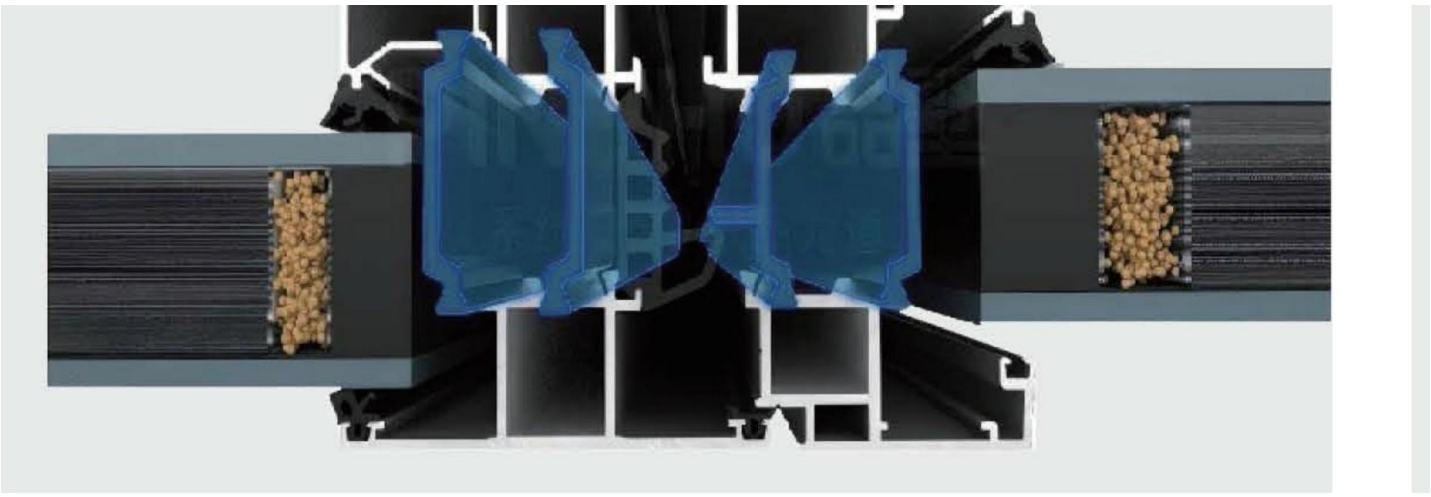


PA66-GF25 NYLON INSULATION STRIP Technoform

The PA66-GF25 nylon thermal break strip is a modified engineering plastic alloy with a high melting point, excellent heat resistance and self-extinguishing properties. Polyamide modified with 25% glass fiber is the optimal base material for thermal break strips.

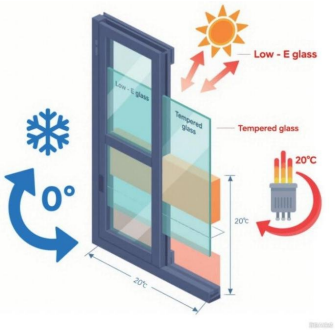
Its expansion coefficient is consistent with that of aluminum alloy, so the barrier moves with the profile rather than against it — balancing indoor temperature through summer heat and winter cold, with strong resistance to aging over the life of the unit.

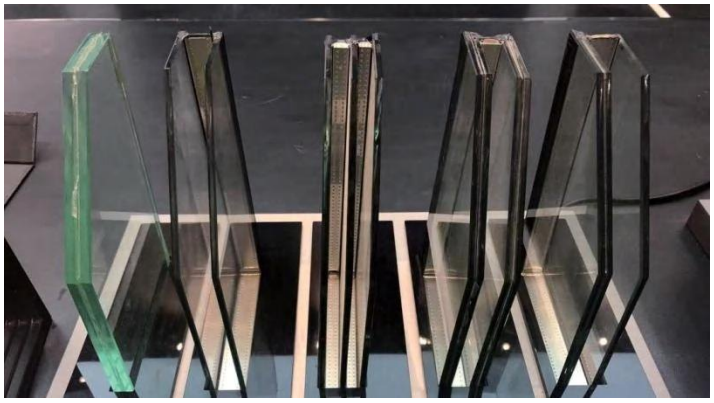




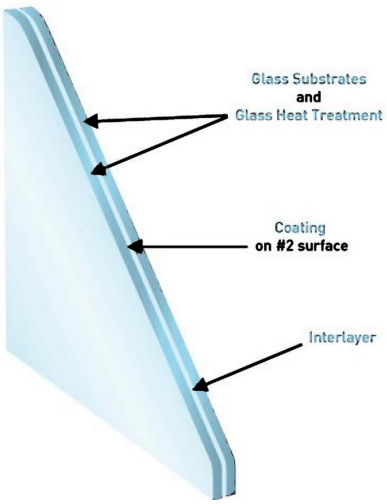
GLASS

Glass governs light transmittance, energy performance and acoustic comfort. Mosaic systems are glazed with energy-efficient low-E tempered units in double, triple and laminated build-ups to suit the exposure and code requirements of each project.

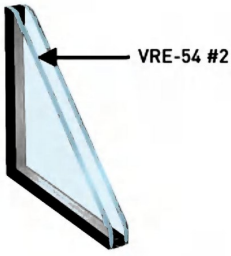




INSULATING UNIT BUILD-UPS



1" VRE1-54 Insulating
1/4" (6mm) clear with VRE-54 #2
1/2" (13.2mm) airspace
1/4" (6mm) clear



VLT	47%
Winter u-value	0.30
Summer u-value	0.27
SHGC	0.31

1" VRE1-54 Triple Insulating
1/8" (3mm) clear with VRE-54 #2
5/16" (7.5mm) airspace
1/8" (3mm) clear
5/16" (7.5mm) airspace
1/8" (3mm) clear



VLT	44%
Winter u-value	0.27
Summer u-value	0.29
SHGC	0.29

1-3/4" VRE1-54 Triple Insulating
1/4" (6mm) clear with VRE-54 #2
1/2" (13.2mm) airspace
1/4" (6mm) clear
1/2" (13.2mm) airspace
1/4" (6mm) clear



VLT	42%
Winter u-value	0.22
Summer u-value	0.22
SHGC	0.28

Specification

Substrate	Clear, low iron, grey, blue
Low-E	Solarban 60 / Solarban 70
Treatment	Tempered
Laminated	PVB interlayer, acoustic or security

Insulating Unit

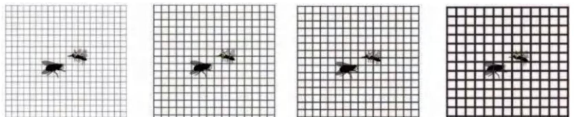
Spacer	Superspacer, warm edge, 4SG
Gas fill	Argon 90%
Configuration	Double, triple or laminated
Options	Burglarproof, grids, integral blinds

GLASS PARTNERS

TECHNOFORM · Kömmerling · DOW CORNING · Vitro · FERRO · kuraray

SCREENS

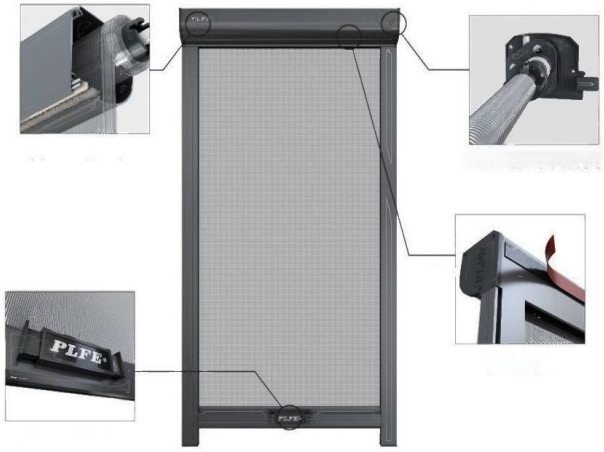
Screens filter light and air without obstructing the view. Stainless mesh and retractable systems are available across the Axiom range, with mesh grades selected for visibility, airflow and durability.



Mesh grades — standard to fine



STAINLESS STEEL & RETRACTABLE









ARCHITECTURAL FINISHES

Powder-Coated Aluminum

Custom color matching available on request. Colors shown are representative; refer to physical samples for final selection.

White


Silver


Champagne


Light Bronze


Verde


Coffee


Iron Ore


Anthracite Grey


Black

WOODGRAIN FINISHES

Thermally Fused Wood-Effect


Natural Oak


Natural Pine


Gray Oak


Walnut


Mahogany


Black Oak

COATING PARTNER

Interpon powder coatings by AkzoNobel.
Architectural-grade polyester, AAMA 2604 / 2605 available.

GLASS SELECTION

Substrate & Coating

Substrate	Clear, low iron, grey, blue
Low-E	Solarban 60 / 70
Treatment	Tempered
Laminated	PVB interlayer optional

Insulating Unit

Spacer	Warm edge, TPS, 4SG
Gas fill	Argon 90%
Configuration	Double standard / triple optional
Grids & blinds	Built-in, optional

PERFORMANCE STANDARDS

CERTIFIED TO
NAFS / CSA
AAMA/WDMA/CSA 101/I.S.2/A440-17

AIR TIGHTNESS
A3

WATER PENETRATION
290–720
Pa

SOUND INSULATION
STC 37
≥ OITC 37 (ASTM E1332-22)

THERMAL TESTING
NFRC 100
ANSI/NFRC 100-2023

SOLAR / OPTICAL
NFRC 200
ANSI/NFRC 200-2023

CONDENSATION
NFRC 500
ANSI/NFRC 500-2023

THERMAL BARRIER
PA66
GF25 nylon strip

PROFILE & SIGHT LINES

Frame depth drives thermal performance; sight line drives how much glass you see. Glazing bead is 24 mm across the full line.

PRODUCT	MOSAIC SERIES	FRAME DEPTH	FRAME SIGHT LINE	SASH SIGHT LINE	GLAZING BEAD
Fixed	810F	81 mm (3.19")	26 mm (1.02")	—	24 mm (0.94")
Casement	810C	81 mm (3.19")	55 mm (2.17")	76 mm (2.99")	24 mm (0.94")
Awning	810A	81 mm (3.19")	31 mm (1.22")	60 mm (2.36")	24 mm (0.94")
Tilt & turn	810TT	81 mm (3.19")	26 mm (1.02")	42 mm (1.65")	24 mm (0.94")
Fixed	810FS	85 mm (3.35")	48 mm (1.89")	24.7 mm (0.97")	24 mm (0.94")
Casement	810CS	85 mm (3.35")	48 mm (1.89")	24.7 mm (0.97")	24 mm (0.94")
Tilt & turn	810TTS	85 mm (3.35")	48 mm (1.89")	24.7 mm (0.97")	24 mm (0.94")
Double hung	830DH	83 mm (3.27")	64.55 mm (2.54")	47.62 mm (1.87")	24 mm (0.94")
Swing door	Axis 810	81 mm (3.19")	40 mm (1.57")	86 mm (3.39")	24 mm (0.94")
Bi-folding door	AeroFold 880	88 mm (3.46")	75 mm (2.95")	63 mm (2.48")	24 mm (0.94")
Sliding glass door	AeroGlide 1500	150 mm (5.91")	—	—	24 mm (0.94")

— Fixed lite with no sash (810F). AeroGlide 1500 sight lines pending profile confirmation.

PERFORMANCE BY PRODUCT

Ranges across available glazing unless marked. Wind is design pressure; water is the no-leak pressure.

PRODUCT	MOSAIC SERIES	U-FACTOR	SHGC	VT	CI / CR	AIR LEAKAGE	WIND	WATER
Fixed	810F	0.14 – 0.28	0.16 – 0.45	0.36 – 0.62	58 – 82	≤ 0.30 cfm/ft²	±2880 Pa ±60.1 psf	720 Pa 15.0 psf
Casement	810C	0.22 – 0.31	0.12 – 0.31	0.24 – 0.42	56 – 78	≤ 0.30 cfm/ft²	±2880 Pa ±60.1 psf	720 Pa 15.0 psf
Awning	810A	0.21 – 0.31	0.12 – 0.31	0.24 – 0.42	56 – 78	≤ 0.30 cfm/ft²	±2400 Pa ±50.1 psf	580 Pa 12.1 psf
Tilt & turn	810TT	0.17 – 0.30	0.14 – 0.41	0.29 – 0.55	55 – 77	≤ 0.30 cfm/ft²	±2880 Pa ±60.1 psf	720 Pa 15.0 psf
Fixed	810FS	0.18 – 0.34	0.18 – 0.54	0.32 – 0.67	50 – 68	≤ 0.30 cfm/ft²	±2880 Pa ±60.1 psf	720 Pa 15.0 psf
Casement	810CS	0.21 – 0.34	0.17 – 0.49	0.28 – 0.61	58 – 64	≤ 0.30 cfm/ft²	±2400 Pa ±50.1 psf	580 Pa 12.1 psf
Tilt & turn	810TTS	0.21 – 0.34	0.17 – 0.49	0.28 – 0.61	58 – 64	≤ 0.30 cfm/ft²	±2400 Pa ±50.1 psf	580 Pa 12.1 psf
Double hung	830DH*	0.48 – 0.49	0.27 – 0.43	0.45 – 0.59	32 – 33	≤ 0.30 cfm/ft²	—	—
Swing door	Axis 810†	0.46	0.12	0.23	26	≤ 0.30 cfm/ft²	±1920 Pa ±40.1 psf	580 Pa 12.1 psf
Bi-folding door	AeroFold 880	0.33 – 0.42	0.25 – 0.35	0.37 – 0.47	45 – 46	≤ 0.50 cfm/ft²	±1440 Pa ±30.1 psf	220 Pa 4.6 psf
Sliding glass door	AeroGlide 1500*†	0.55	0.22	0.45	27	—	—	—

Condensation: CI for 810F, 810C, 810A and 810TT; CR for all other products. Air infiltration at 1.57 psf.

*Simulated. †Lowest certified value, excluding laminated glazing. — Not yet published.

MATERIALS & CONSTRUCTION

Common construction across the Axiom, Axis, AeroFold and AeroGlide ranges.

Aluminum profile	6063-T5 / 6060-T66
Wall thickness	Window 1.8 mm (0.07") · Door 2.2 mm (0.09") · 810FS / 810TTS 2.0 mm (0.08")
Surface treatment	Powder coat · fluorocarbon · anodized
Thermal break	PA66-GF25 nylon, equilibrium-line design
Sealing gasket	High-quality EPDM, triple seal
Glazing	Double standard / triple optional, tempered
Spacer & fill	TPS / warm edge, argon filled, Low-E
Hardware	SIEGENIA · HOPPE · CMECH
Max fixed sash	6000 × 3300 mm (236 × 130")
Max sash · awning	2000 × 2000 mm (79 × 79")
Max sash · tilt-turn	1200 × 2400 mm (47 × 94") · 810TTS 1200 × 1800 mm (47 × 71")
Max sash · door	1200 × 2800 mm (47 × 110")
Sound reduction	STC 37 (ASTM E413-22); whole-window Rw minimum 35 dB
Drainage	Hidden drainage or weep holes

SPANS & LIMITS

Door configurations and maximum spans. Set per project from the signed drawings.

Axis™ 810	Single leaf, double leaf, or leaf with fixed sidelite. Sash to 1200 × 2800 mm (47 × 110").
AeroFold™ 880	2+0, 3+0, 4+0, 2+1, 3+1, 2+2, 4+2 and 3+3 — see p. 23. Panels virtually unlimited in line.
AeroGlide™ 1500	Two-panel (XX) and multi-track configurations — see p. 25. 218.2 mm (8.59") sill.

ADDITIONAL PRODUCTS AVAILABLE

Not shown in this catalog. Availability and specifications confirmed per project — ask your dealer.

OTHER SYSTEMS AVAILABLE

- Fold-up windows
- Sliding windows — XO, OX and XOX
- Curtain wall
- Window wall
- Storefront

CUSTOM & SPECIAL ORDER

- Custom shapes
- Corner units
- Screens
- Custom colors
- Matched finishes across windows, doors and interiors
- Oversized fabrication

WHERE EACH ONE WINS

Match the system to the opening. Glass makeup is specified per project from the plans.

WINDOWS

810TT Tilt + Turn p. 04

Bedrooms and anywhere egress plus trickle ventilation both matter.

810TTS Tilt + Turn · Slimline p. 06

The same opening on an 85 mm frame with a 48 mm sight line.

810C Casement p. 08

Full-hinge ventilation and clear egress. The volume window on most elevations.

810CS Casement · Slimline p. 10

Side-hung inward opening on the Slimline profile.

810A Awning p. 12

Baths, kitchens and clerestory. Sheds rain while it vents.

810F Fixed p. 14

Glazed elevations and lobby glass. Sizes depend on the glass configuration.

810FS Fixed · Slimline p. 16

The slimmest fixed lite in the range at a 48 mm sight line.

830DH Double Hung p. 18

Traditional proportions. Tilt-in sashes, dual-sash balanced travel.

DOORS

Axis 810 Swing Door p. 20

Entry, single leaf and French doors.
Multi-point locking, low threshold.

AeroFold 880 Bi-Folding Door p. 22

Folding walls and terrace openings.
Stacking one or both sides.

AeroGlide 1500 Panoramic Sliding Door p. 24

Wide spans and big terrace doors.
Multi-track sill, concealed drainage.

Door configurations and maximum spans are on p. 35.

INTERIOR GLASS

FIVE SYSTEMS FOR DIVIDING SPACE IN GLASS

The Mosaic interior range carries the same frames, finishes and hardware as the exterior systems, turned inward. Swing, pocket, gliding, stacking and fixed partitions — specified from the same palette, with clear or textured glass to suit the room.

WHERE EACH ONE WINS

GlasDor™ Interior Swing Door p. 38

Single and double leaf interior openings, finish-matched to the exterior range.

GlasVeil™ Interior Pocket Door p. 39

The leaf slides into a wall cavity and disappears from view.

GlasGlide™ Interior Gliding Door p. 40

Wall-mounted, top-hung on a concealed track — the leaf parks against the wall.

GlasStak™ Interior Stacking Door p. 41

Panels stack at the jamb to open a full run, with no wall cavity required.

GlasWal™ Interior Glass Wall p. 42

Full-height glazing with a minimal perimeter frame.

SPECIFYING INTERIOR GLASS

Glass	Clear or textured — seventeen options shown on p. 43.
Finish	Matched to the exterior powder-coat palette, p. 33.
Hardware	Handles and pulls in the same finishes as the exterior range, p. 29.
Choosing a system	The three sliding systems compared on p. 43.

GlasDor™ Interior Swing Door

MODERN TRANSPARENCY. TIMELESS DESIGN.

Mosaic GlasDor™ is the near-frameless glass swing door, balancing architectural elegance, durability and performance for modern interiors. Single or double leaf, finish-matched to the exterior range.







SPECIFYING

Versatile configurations	Single or double swing doors, with pivot or concealed hinges to suit the opening.
Acoustic & privacy control	Optional sound-rated glass for acoustic separation in offices and residences.
Model reference	GLDR-10018. Also GDR-1005, shown in Cloud White.

SHARED ACROSS THE INTERIOR RANGE

Frame	Aluminum, non-thermally-broken
Glazing	Single standard / dual optional
Glass	Clear or textured — seventeen options, p. 43
Grids	Internal or external, optional
Finish	Matched to the exterior powder-coat palette, p. 33
Hardware	Handles and pulls in the exterior finishes, p. 29

GlasVeil™ Interior Pocket Door

SEAMLESS POCKET DOOR ELEGANCE.

The Mosaic GlasVeil™ pocket door combines space-saving operation with refined transparency. The leaf slides into a cavity inside the wall and disappears from view — for luxury homes, offices and hospitality interiors.





SPECIFYING

Space-saving operation	The leaf runs into a wall cavity on a concealed track, clearing the opening entirely.
Wall cavity required	A stud cavity must be formed to receive the leaf. For wall-mounted sliding see GlasGlide™.
Model reference	GVL-1019, shown in Midnight Shadow.

SHARED ACROSS THE INTERIOR RANGE

Frame	Aluminum, non-thermally-broken
Glazing	Single standard / dual optional
Glass	Clear or textured — seventeen options, p. 43
Grids	Internal or external, optional
Finish	Matched to the exterior powder-coat palette, p. 33
Hardware	Handles and pulls in the exterior finishes, p. 29

GlasGlide™ Interior Gliding Door

EFFORTLESS TRANSITIONAL GLASS DOORS.

Mosaic GlasGlide™ is a slim-framed interior sliding door with ultra-slim aluminum framing and smooth-glide operation. The leaf is wall-mounted and parks against the wall, dividing space without taking floor area.







SPECIFYING

Minimalist framing	Ultra-slim profiles for a sleek, contemporary aesthetic.
Wall-mounted	Top-hung on a concealed track. For pocket installation see GlasVeil™.
Model reference	GlasGlide™ 1015.

SHARED ACROSS THE INTERIOR RANGE

Frame	Aluminum, non-thermally-broken
Glazing	Single standard / dual optional
Glass	Clear or textured — seventeen options, p. 43
Grids	Internal or external, optional
Finish	Matched to the exterior powder-coat palette, p. 33
Hardware	Handles and pulls in the exterior finishes, p. 29

GlasStak™ Interior Stacking Door

MULTI-PANEL STACKABLE GLASS DOORS.

The Mosaic GlasStak™ system allows glass panels to stack together to open a full run, giving expansive, unobstructed views. Precision-engineered stacking, minimalist framing and smooth operation, with no wall cavity required.





SPECIFYING

Design freedom & flexibility	Expansive openings and seamless transitions with minimal visual obstruction.
Easy installation	Precision-engineered for efficient installation, reducing labor time on site.
Where the panels sit	Stacked at the jamb and visible when open — no wall cavity needed.

SHARED ACROSS THE INTERIOR RANGE

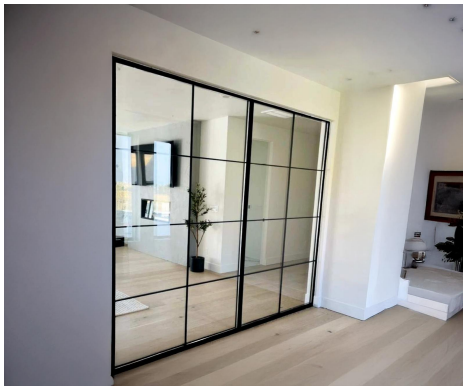
Frame	Aluminum, non-thermally-broken
Glazing	Single standard / dual optional
Glass	Clear or textured — seventeen options, p. 43
Grids	Internal or external, optional
Finish	Matched to the exterior powder-coat palette, p. 33
Hardware	Handles and pulls in the exterior finishes, p. 29

GlasWal™ Interior Glass Wall

GLASS TRANSITION + PARTITION WALLS.

Mosaic GlasWal™ is a glass wall system for open-concept interiors — full-height glazing with a minimal perimeter frame for studies, stair enclosures, office fronts and room divisions.







SPECIFYING

Seamless integration	Minimal perimeter frame for open-concept designs.
Acoustic control	Optional sound-rated glass for privacy and noise reduction.
Customizable configurations	Fixed, sliding or operable panels. Model GWL-1002, shown in Midnight Shadow.

SHARED ACROSS THE INTERIOR RANGE

Frame	Aluminum, non-thermally-broken
Glazing	Single standard / dual optional
Glass	Clear or textured — seventeen options, p. 43
Grids	Internal or external, optional
Finish	Matched to the exterior powder-coat palette, p. 33
Hardware	Handles and pulls in the exterior finishes, p. 29

WHICH SLIDING SYSTEM

Three interior systems slide. They differ in where the leaf goes when the opening is clear, which is what usually decides the specification. GlasGlide™ is wall-mounted; GlasVeil™ is the pocket system.

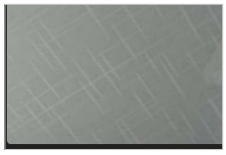
	GlasGlide™ Interior Gliding Door	**GlasVeil™** Interior Pocket Door	**GlasStak™** Interior Stacking Door
How it opens	One leaf slides along the face of the wall	One leaf slides into a cavity inside the wall	Several leaves stack together to one side
Where the leaf sits	Visible, parked against the adjacent wall	Hidden inside the wall	Visible, stacked at the jamb
Wall cavity needed	No — wall-mounted only	Yes — pocket cavity required	No
Opening width	Single or paired leaves	Single leaf	Full run — widest clear opening
Best suited to	Studies, wine rooms, en-suites	Tight plans where a parked leaf would intrude	Open-plan rooms where the opening changes with use
Model reference	GlasGlide™ 1015	GVL-1019	See specification

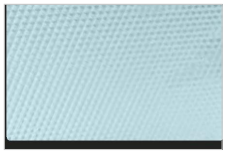
MOSAIC GLAS™ COLLECTION

Seventeen architectural glass selections for privacy, texture and light, available across the interior systems.


RainGlas

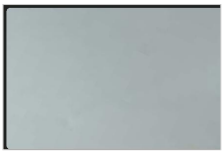

FrosteGlas


Lume


Tessera


Revé


Ethereal


GreyMist


AquaGlas


StriaGlas


Obscura


Trellis


Opaline


Boreal


Altitude


Lattice


SkyVeil


GeoFrost

Glass is specified per opening. Textured selections carry the same finish options as clear glazing.



MOSAIC
WINDOWS + DOORS

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