



ALUMINUM WINDOWS & DOORS

2026 COLLECTION



TURNKEY
GLOBAL MATERIALS

Thermal-break aluminum windows and doors with European hardware, direct from the factory. Casement, sliding, lift-slide, folding and panoramic systems.

Slim frames, big glass and tested performance. Curated for US residential and light commercial projects by Turnkey Global Materials.

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AUSTIN, TEXAS



More glass. Less frame. No compromise.

Architectural aluminum has become the default for modern residential and light commercial glazing: narrow sightlines, large panels and colors that stay put. The systems in this catalog use polyamide thermal breaks, multi-chamber extrusions and EPDM seals to deliver the insulation and tightness that used to require bulky frames.

We selected eleven series across two families. Windows first: three casement systems, a panoramic slider, a single-hung slider and a motorized lift window. Then doors: bi-folding, thermal-break sliding, lift-and-slide and flush-sill panoramic systems, plus slim interior doors. Every system ships with hardware fitted and glass factory-glazed, in container or LCL quantities.

DIRECT FROM THE FACTORY

We buy from the extruder and assembler, not a distributor. Expect meaningful savings against domestic aluminum systems of comparable spec.

TESTED PERFORMANCE

Each series carries manufacturer ratings for thermal insulation, sound, air and water tightness and wind load. Ratings are printed as tested.

MADE TO YOUR OPENINGS

Every unit is built to your rough opening schedule, with your choice of glass, hardware finish and color inside and out.

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SECTION 01

Windows

Casement, tilt-and-turn, panoramic sliding, single-hung and motorized lift windows. Thermal-break frames from 83 to 150mm.



P86 casement *window & door*

The P86 is the workhorse casement. An 86mm frame with a 40mm vertical polyamide thermal barrier separates outside from inside metal, so the frame stays warm in winter and cool in summer. It is built as a window or as a hinged terrace door on the same profile, and takes a fixed screen on the exterior.

SECTION & SPECIFICATIONS SERIES P86



PROFILE
Thermal-break aluminum section

FRAME WIDTH	86mm
PROFILE WALL	2.0mm
SASH WIDTH / SIGHTLINE	86mm sash, 60mm sightline incl. glazing bead
GLASS	5+19.5A+5mm double or 5+12A+5+12A+5mm triple
THERMAL BARRIER	40mm polyamide

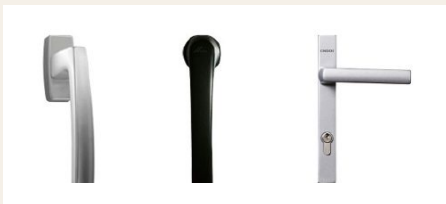
KEY FEATURES

- Vertical thermal barrier blocks conductive heat transfer between frame, sash and glass
- Casement, tilt-and-turn and fixed configurations from one profile family
- Door version uses a multi-point lock with lever handle
- Three-seal design with EPDM gaskets on frame and sash

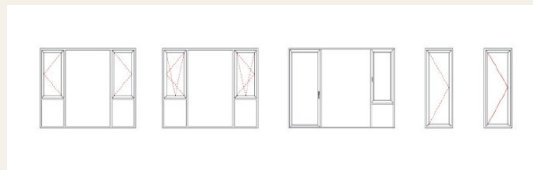
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 7, U 2.5 W/m²K
SOUND INSULATION	Level 3, 34 dB
AIR TIGHTNESS	Level 7
WATER TIGHTNESS	Level 4, 400 Pa
WIND LOAD	Level 7

HARDWARE HOPPE · ROTO · CMECH



OPERATING STYLES



FINISHES POWDER COAT

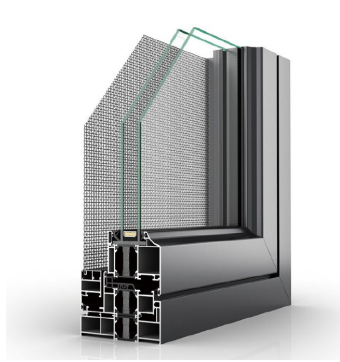




P110 casement *window*

A step up in depth and rating. The P110 adds a 110mm frame and a diamond-mesh insect screen as standard, with Level 8 wind load resistance and 500 Pa water tightness for exposed elevations. Hardware is a full system window set with concealed multi-point locking.

SECTION & SPECIFICATIONS SERIES P110



PROFILE

Thermal-break aluminum section

FRAME WIDTH	110mm
PROFILE WALL	1.8mm
SASH WIDTH / SIGHTLINE	70mm sash, 52mm sightline incl. glazing bead
GLASS	5+19.5A+5mm insulated unit
THERMAL BARRIER	30mm polyamide
SCREEN	Diamond mesh, standard

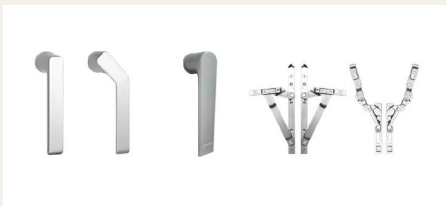
KEY FEATURES

- System window hardware with concealed multi-point locking and tilt-and-turn option
- Integrated stainless diamond-mesh screen: insect-proof with unrestricted ventilation
- Vertical thermal barrier between frame, sash and glass
- Hidden floor drain routes water out of the sill without visible weep slots

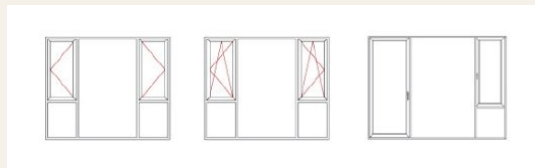
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 7, U 2.5 W/m²K
SOUND INSULATION	Level 3, 34 dB
AIR TIGHTNESS	Level 7
WATER TIGHTNESS	Level 4, 500 Pa
WIND LOAD	Level 8

HARDWARE CMECH · KNG



OPERATING STYLES



FINISHES POWDER COAT

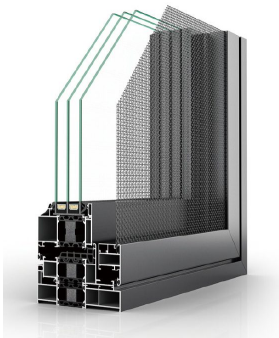




P120 casement *window*

The deepest casement in the range. At 120mm with a 40mm thermal barrier and a triple-glazed option, the P120 reaches Level 8 thermal insulation, which puts it in the range of high-performance European systems. The near-vertical isotherm means the inside face of the frame stays close to room temperature even on cold days.

SECTION & SPECIFICATIONS SERIES P120



PROFILE

Thermal-break aluminum section

FRAME WIDTH	120mm
PROFILE WALL	1.8mm
SASH WIDTH / SIGHTLINE	81mm sash, 52mm sightline incl. glazing bead
GLASS	5+19.5A+5mm double or 5+12A+5+12A+5mm triple
THERMAL BARRIER	40mm polyamide
SCREEN	Diamond mesh, standard

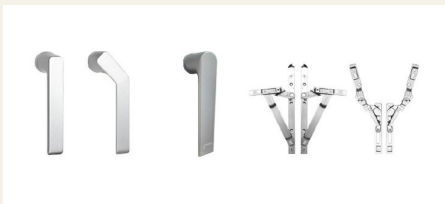
KEY FEATURES

- Near-vertical thermal barrier for the best isotherm in the casement family
- Triple glazing to 34mm overall thickness
- Same hardware and screen package as P110 for mixed schedules
- Available with matching fixed lights and transoms

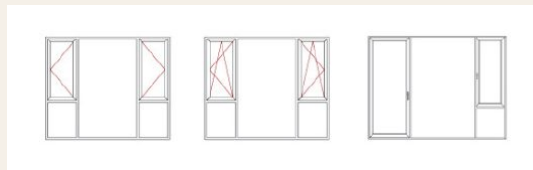
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 8, U 2.5 W/m²K
SOUND INSULATION	Level 3, 32 dB
AIR TIGHTNESS	Level 7
WATER TIGHTNESS	Level 4, 500 Pa
WIND LOAD	Level 8

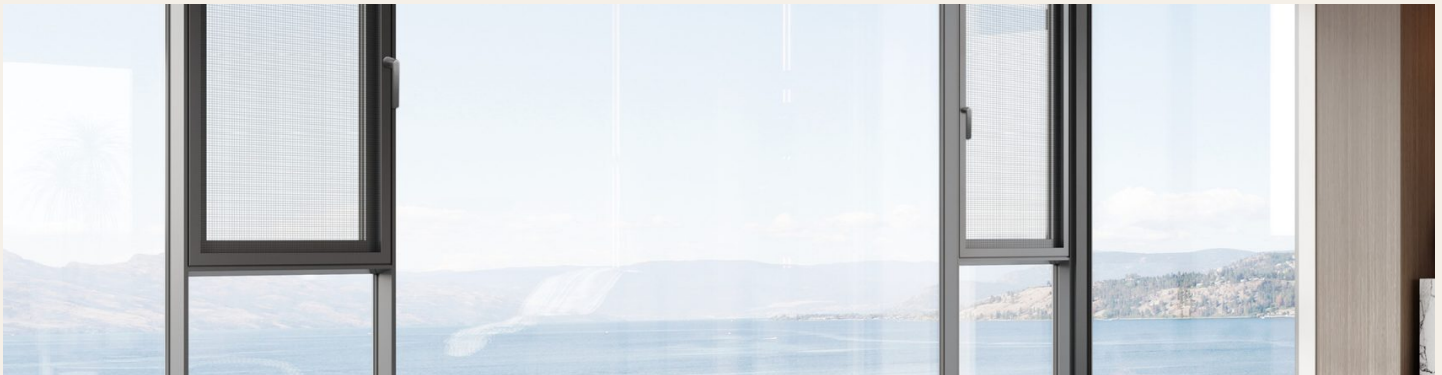
HARDWARE CMECH · KNG



OPERATING STYLES



FINISHES POWDER COAT

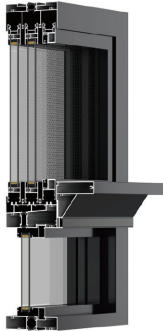




115 panoramic *sliding window*

A frameless-look slider for kitchens, bedrooms and view walls. The sash stile is just 25mm wide, so glass meets glass with almost no visible metal. Silicone wool pile around the sash and a frame-wrapped fan structure keep air and water out, and a hidden drain with a decorative cover plate opens only when water needs to leave.

SECTION & SPECIFICATIONS SERIES 115



PROFILE
Thermal-break aluminum section

FRAME WIDTH	120mm (115 series)
PROFILE WALL	2.0mm
SASH WIDTH / SIGHTLINE	25mm sash, 42mm sightline incl. glazing bead
GLASS	5+14A+5mm insulated unit
THERMAL BARRIER	20mm polyamide
SCREEN	Sliding screen track included

KEY FEATURES

- Silicone wool strips around the sash improve the lap-joint seal and cut wind whistle
- Silent track with high-grade pulleys: strong load capacity, smooth and quiet
- Hidden drainage with automatic cover plates keeps the exterior clean
- Two-panel and four-panel layouts with screen

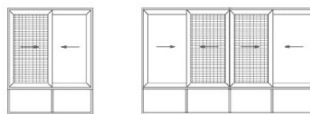
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 8, U 2.5 W/m²K
SOUND INSULATION	Level 4, 36 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 8

HARDWARE FLUSH SLIDER LOCK



OPERATING STYLES



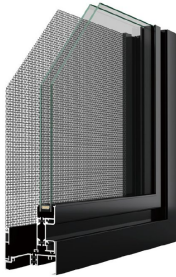
FINISHES POWDER COAT



83 single-hung window & 90 vent sash

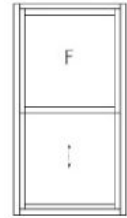
Two slim systems that solve specific problems. The 83 is a thermal-break single-hung window: the sash lifts vertically inside a frame-encased track with high-quality gaskets, a good fit for traditional elevations and for openings where a swinging sash is in the way. The 90 is a narrow ventilation sash that pairs with fixed glass to bring fresh air into a picture window without breaking the view.

83 SINGLE-HUNG WINDOW FRAME-ENCASED LIFTING SASH



PROFILE
83mm frame

FRAME WIDTH	83mm · 1.5mm wall
SASH WIDTH / SIGHTLINE	33mm sash, 25 / 34 / 43mm sightlines
THERMAL BARRIER	12mm
RATINGS	Thermal Level 5 (U 2.0), sound Level 5 (42 dB), air Level 7, water Level 4 (500 Pa), wind Level 8



OPERATION
Lower sash lifts

90 MICRO-VENTILATION SASH FOR FIXED GLASS WALLS



PROFILE
90mm frame

FRAME WIDTH	90mm · 1.8mm wall
FACE WIDTHS	51mm large face, 30mm small face
SASH WIDTH / SIGHTLINE	90mm sash, 52mm sightline
THERMAL BARRIER	40mm
RATINGS	Thermal Level 8 (U 2.5), sound Level 3 (34 dB), air Level 7, water Level 4 (500 Pa), wind Level 8

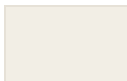


HARDWARE
Hoppe or Roto lever

FINISHES



Black



White



Grey

IN PLACE





150 motorized *lift window*

A pass-through window for kitchens, bars and indoor-outdoor counters. The glass panel rises vertically into the head on a gearbox chain drive, so the whole opening clears with nothing swinging into the room or the patio. Touch control and remote are standard; the wind and rain sensor closes the window automatically and an infrared beam stops it if anything is in the way.

SECTION & SPECIFICATIONS SERIES 150



PROFILE
150mm frame

FRAME WIDTH	150mm
PROFILE WALL	2.0mm
SASH WIDTH	50mm
GLASS	8+16A+8mm insulated unit
THERMAL BARRIER	14.8mm
DRIVE	Electric gearbox chain, touch panel and remote

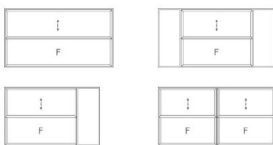
KEY FEATURES

- Large-opening electric lift with touch control and remote
- Electrically driven insect screen mesh, ventilation on demand
- Infrared anti-pinch protection across the opening
- Wind and rain sensor closes the window automatically
- Voice control and app operation available

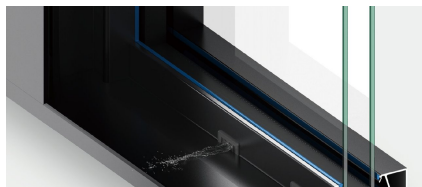
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 8, U 2.5 W/m²K
SOUND INSULATION	Level 3, 32 dB
AIR TIGHTNESS	Level 7
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

CONFIGURATIONS



SILL DRAINAGE



FINISHES



Black

Grey





CASEMENT WINDOWS

Warm frames, *quiet rooms*

P120 tilt-and-turn casements with integrated screens. Level 8 thermal insulation, 500 Pa water tightness.



SECTION 02

Doors

Bi-folding, thermal-break sliding, lift-and-slide and flush-sill panoramic doors. Single leaves to 3.5m tall, 600 kg per panel.



ZT80 *bi-folding door*

The bi-fold that opens a whole wall. Panels stack to one side or both, in any count, so a living room becomes part of the terrace. Each sash carries up to 120 kg of glass on smooth-gliding pulleys, and a wide anti-pinch rubber strip sits between leaves for safety and sealing. Configurations are described by panel count and split, for example 431 is four panels, three left and one right.

SECTION & SPECIFICATIONS SERIES ZT80



PROFILE

Thermal-break aluminum section

FRAME WIDTH	80mm
PROFILE WALL	2.0mm
SASH SIZE	W 500 to 900mm · H 1900 to 3500mm
SASH STILE	84 x 70mm lock stile, 58 x 70mm hinge stile
GLASS	6+12A+6mm or 5+14A+5mm · glass notch 24mm
SASH LOAD	up to 120 kg per panel

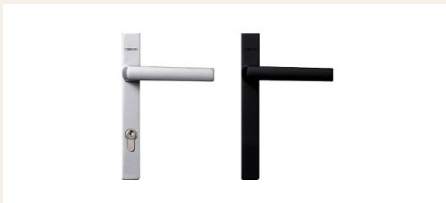
KEY FEATURES

- Folds fully to one side or both to clear the passage
- Any number of panels; 431, 633, 651, 871 and 853 layouts shown
- Large anti-pinch rubber strip between leaves
- Multi-point lock with lever handle on the traffic door

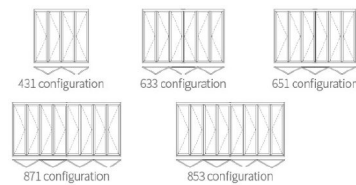
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	Level 6, U 2.2 W/m²K
SOUND INSULATION	Level 4, 36 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

HARDWARE CMECH



OPERATING STYLES



FINISHES POWDER COAT





73 folding door

A slimmer folding door for openings that want less metal. The 73mm frame keeps the same stacking logic as the ZT80 and adds a multi-seal design: several sealing layers between frame and sash improve water and air tightness in wind-driven rain. Leaves run to 1100mm wide and 3000mm tall.

SECTION & SPECIFICATIONS **SERIES 73**



PROFILE

Thermal-break aluminum section

FRAME WIDTH	73mm
PROFILE WALL	2.0mm
LEAF SIZE	W to 1100mm · H to 3000mm
GLASS	5+20A+5mm or 6+18A+6mm · glass notch 32mm
MEETING STILE	65mm deep, 56mm wide

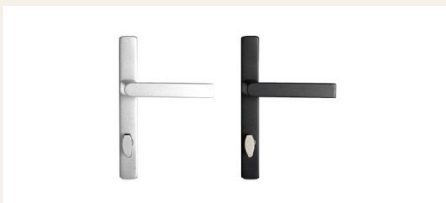
KEY FEATURES

- Multi-seal design between frame and sash
- Folds fully to one or both sides; 422 to 871 layouts
- Smooth-gliding pulleys, no visible top track hardware
- Suits smaller apartments and openings as well as wide walls

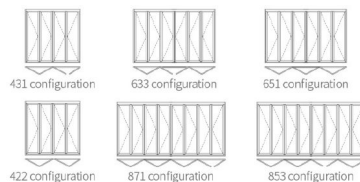
PERFORMANCE RATINGS **AS TESTED BY THE MANUFACTURER**

THERMAL INSULATION	Level 6, U 2.2 W/m²K
SOUND INSULATION	Level 4, 36 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

HARDWARE **CLAISEN LEVER**



OPERATING STYLES



FINISHES **POWDER COAT**





T110 thermal-break *sliding door*

The everyday sliding patio door, upgraded. A 110mm thermal-break frame with two or four panels on a double track, multi-point locking and a sliding screen. The push-pull action takes no floor space inside or out, and the multi-lock design suits families with children.

SECTION & SPECIFICATIONS **SERIES T110**



PROFILE

Thermal-break aluminum section

FRAME WIDTH	110mm
PROFILE WALL	1.8mm
SASH SIZE	W 500 to 1600mm · H 1200 to 2700mm
SASH STILE	65 x 42mm
GLASS	5+14A+5, 6+12A+6 or 8+12A+8mm · notch 26mm
SASH LOAD	up to 150 kg per panel

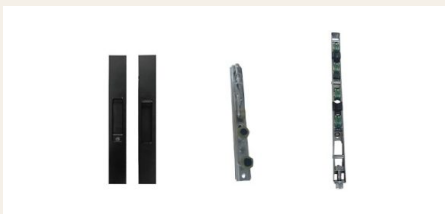
KEY FEATURES

- Thermal-break frame cuts heat conduction and noise transmission
- Large glass panels for view and daylight
- Silicified wool seals on all lap joints for air and water tightness
- Two and four panel layouts, each with matching screen

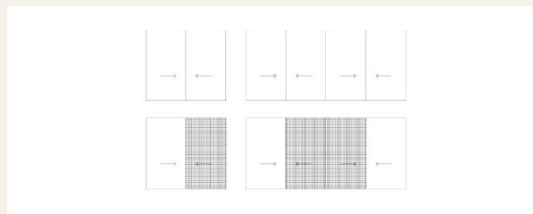
PERFORMANCE RATINGS **AS TESTED BY THE MANUFACTURER**

THERMAL INSULATION	Level 6, U 2.2 W/m²K
SOUND INSULATION	Level 4, 36 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

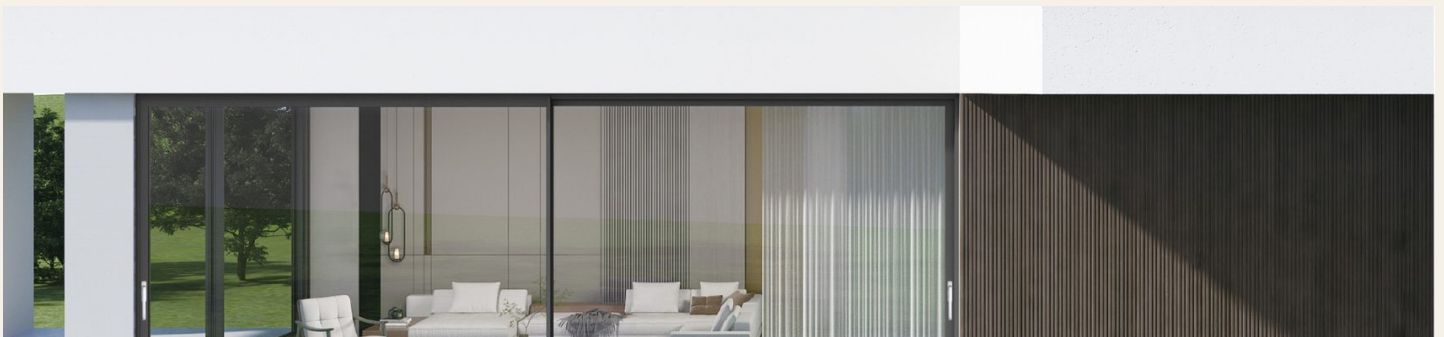
HARDWARE **FLUSH PULL, MULTI-POINT LOCK**



OPERATING STYLES



FINISHES **POWDER COAT**

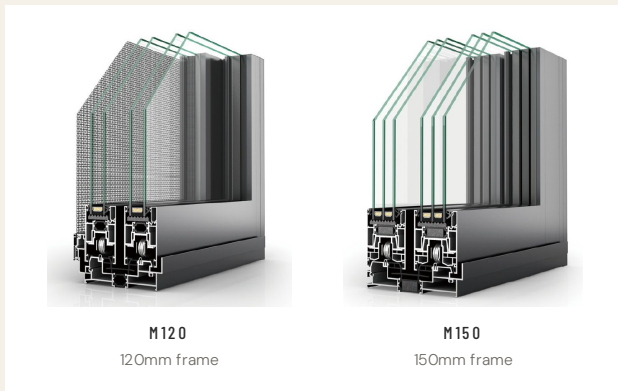




M120 & M150 *lift-and-slide doors*

Lift-and-slide is how large glass moves. Turn the handle and the panel rises off its seals onto the rollers; a child can push a 450 kg sash. Turn it back and the panel drops onto continuous EPDM gaskets for a seal a plain slider cannot match. The M120 uses a 24mm polyamide barrier; the M150 adds a wider barrier and triple glazing for a Level 9 thermal rating at U 1.14 W/m²K, our best-insulated door.

PROFILES & SPECIFICATIONS SERIES M120 · M150



FRAME WIDTH	M120 120mm · M150 150mm, 2.0mm wall
SASH SIZE	W 720 to 3300mm · H 1800 to 2700mm
GLASS M120	5+16A+5, 6+14A+6 or 8+10A+8mm · notch 26mm
GLASS M150	5+14A+5+14A+5 or 8+10A+8+10A+8mm triple · notch 44mm
SASH LOAD	220 to 450 kg per panel
BARRIER	PA66 GF25 polyamide, German injection-molded corners

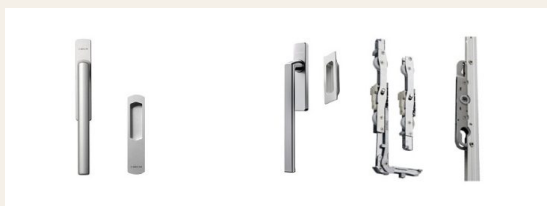
KEY FEATURES

- Narrow meeting stile with interlocking mullion; pairs with screen doors
- Flush frame with hidden drainage
- European-standard EPDM composite foam seals
- Hook-position sealing at the interlock
- Optional screen door

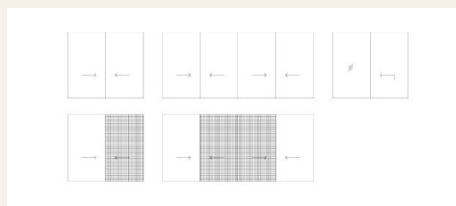
PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	M120 Level 6, U 2.2 · M150 Level 9, U 1.14 W/m²K
SOUND INSULATION	M120 Level 4, 36 dB · M150 Level 5, 42 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

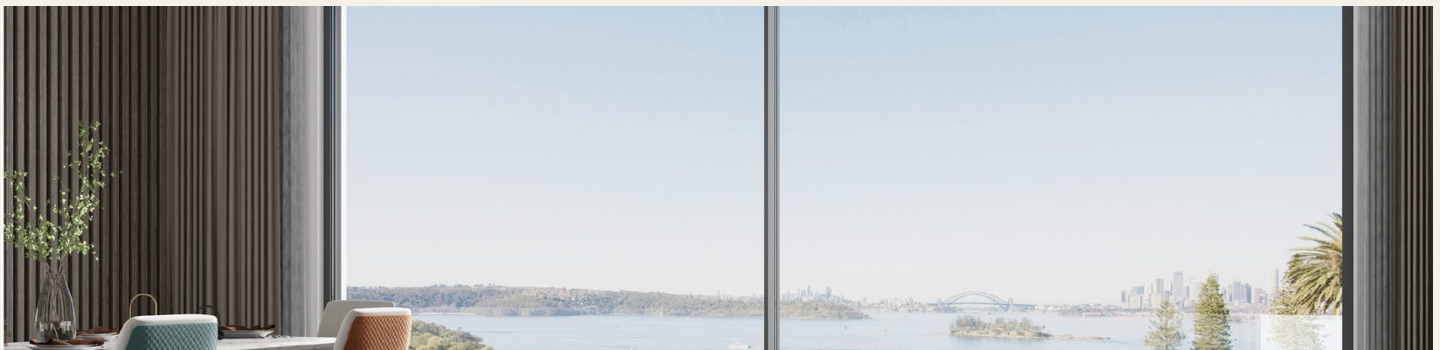
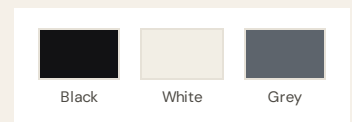
HARDWARE CMECH · HANWEI OPTIONAL



OPERATING STYLES



FINISHES

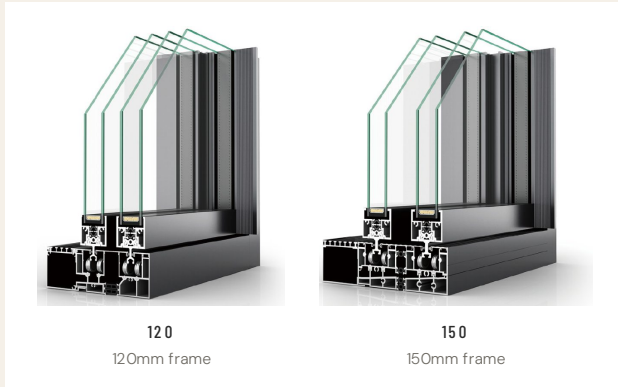




120 & 150 panoramic doors

Flush-sill sliding walls for the largest openings. The track is embedded in the floor so there is no step, an accessible detail for children and older family members. Panels reach 3.5m wide and 3.3m tall at 600 kg each, closing on a 25mm hook stile with automotive-grade rubber seals. The 150 adds a heavier 3.0mm wall and a triple-track sill for three-panel stacks; both accept motorized operation with face recognition and infrared anti-pinch.

PROFILES & SPECIFICATIONS SERIES 120 - 150



FRAME WIDTH	120 series 120mm, 2.8mm wall · 150 series 150mm, 3.0mm wall
SASH SIZE	W 700 to 3500mm · H 1800 to 3300mm
SASH STILE	120: 50 x 45mm · 150: 54 x 50mm
GLASS	6+24A+6, 8+22A+8, 10+18A+10 or 12+14A+12mm · notch 38mm
SASH LOAD	up to 600 kg per panel
SILL	Embedded micro-slit track, integrated underdrain

KEY FEATURES

- Micro-slit embedded sill, barrier-free threshold
- High and low inclined sill surfaces for fast drainage
- 25mm hook stile with multiple automotive-grade seals
- Reinforced middle protrusion carries heavy glass without deflection
- Optional electric drive with face recognition and infrared anti-pinch

PERFORMANCE RATINGS AS TESTED BY THE MANUFACTURER

THERMAL INSULATION	120 Level 6, U 2.2 · 150 Level 9, U 1.14 W/m²K
SOUND INSULATION	Level 5, 42 dB
AIR TIGHTNESS	Level 8
WATER TIGHTNESS	Level 5, 500 Pa
WIND LOAD	Level 9

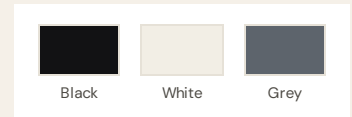
HARDWARE CUSTOMIZED



OPERATING STYLES



FINISHES





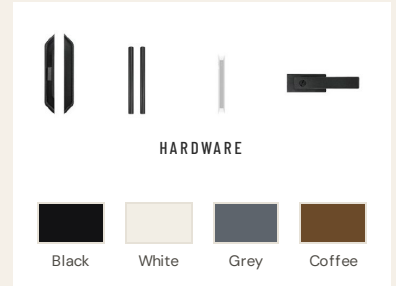
Interior doors & entrance

Also available on the same order: slim-frame interior glass doors for offices, pantries and bathrooms, and insulated aluminum entrance doors with concealed hardware. Interior systems use 8mm clear glass as standard with wired, art or grid glass as options.

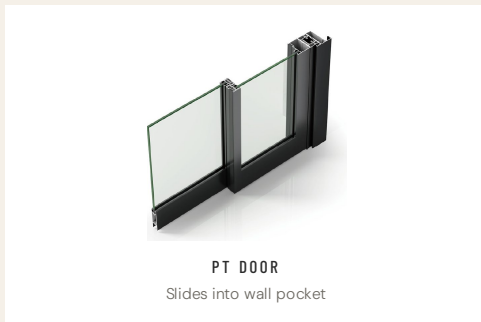
T40 SLIDING & SWING DOOR 40 X 16MM STILE · TOP OR BOTTOM ROLLING TRACK



PROFILE WALL	4.0mm sliding · 3.5mm swing
SASH SIZE	Sliding W 450 to 1300mm, H to 3000mm · Swing W to 900mm, H to 2600mm
GLASS	8mm super clear; wired, art or grid optional
HARDWARE	C-shaped pull, bar handle, star diamond handle, flat lock



PT POCKET DOOR & SHOWER DOOR SLIM FRAMES, TEMPERED GLASS



PT DOOR	Sliding and swing-open leaf, 12 x 27mm stile, 5mm super clear glass, 180 degree swing
SHOWER DOOR	70mm frame, 1.2mm wall, 8mm tempered glass, double-groove wheel combination, waterproof bottom slope
FINISHES	Black, White, Grey; shower also in Golden

IN PLACE



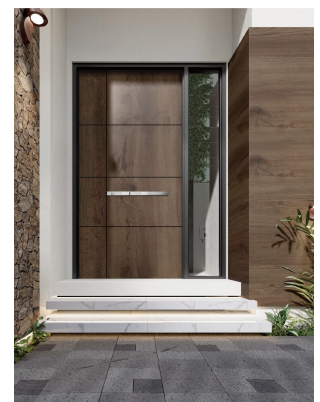
T40 PARTITION & SWING DOOR



PT POCKET DOOR



SHOWER ENCLOSURE



ENTRANCE DOOR

Insulated aluminum leaf with high-strength lock, wear and corrosion resistant finish.



TURNKEY
GLOBAL MATERIALS

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Send us your window and door schedule, glass spec and target finish. We return a landed-cost quote from the factory, with lead time and container plan, usually within a week.

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