



P450

PIVOT DOORS

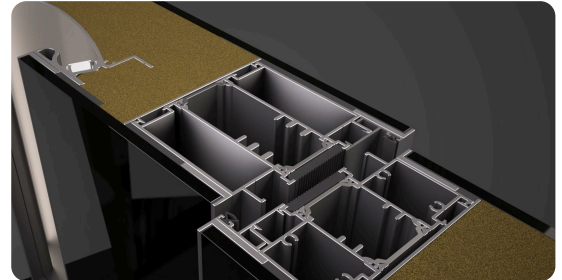
High-Performance Aluminium
Pivot & Aller-retour Door System

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A premium thermal **pivot and aller-retour** aluminium door system that redefines architectural entrances. A concealed pivot mechanism, 32 mm polyamide thermal breaks and minimal sightlines combine robust engineering with timeless design — engineered for heavy leaves up to 250 kg while delivering excellent insulation. A simple profile change lets the same system operate as an aller-retour (dual-direction) door, ideal for demanding residential and commercial entrances.

Modern Design. Structural Excellence.

- Typical system depth **104.6 mm** (frame/sash with 6 mm cladding each side)
- Accepts cladding up to **65 mm** per side
- 32 mm polyamide thermal breaks for improved energy performance
- U_w value up to **0.7 W/(m²K)**
- Single and double pivot / aller-retour configurations
- Optional fixed frames, sidelights and transom combinations



Pivot / aller-retour section — 32 mm polyamide thermal break

Key Design Features

- Minimalist appearance with flush surfaces and concealed pivot hardware
- Fully compatible with smart-lock and access-control systems
- Durable pivot mechanisms engineered for heavy-duty constructions
- A simple change of profiles enables 'aller-retour' (dual-direction) opening
- Weather-resistant sealing with advanced gaskets and perimeter insulation
- Adaptable threshold configurations for accessibility and thermal continuity
- Seamless integration with various architectural materials and finishes

Advanced Thermal Technology

Advanced 32 mm polyamide thermal breaks, combined with continuous gaskets and precision sealing, deliver superior energy efficiency and comfort. The design minimises visible aluminium for an elegant, flush appearance.



Performance at a glance



Up to 0.7

W/(m²K) — U_w value



250 kg

Max sash weight



104.6 mm

System depth



6 m²

Max sash area



2.0 × 3.5 m

Max sash dimensions



32 mm

Polyamide thermal break

System Advantages —

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Superior Insulation: High-performance 32 mm polyamides and high-grade gaskets deliver excellent thermal efficiency.

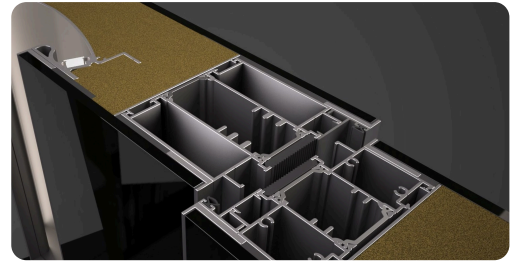
Architectural Versatility: Flexible pivot / aller-retour typologies and cladding options to match any design.

Premium Aesthetics: Flush surfaces, concealed components and minimal sightlines.

Superior Strength: Engineered for large, heavy doors up to 250 kg.

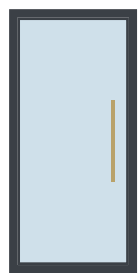
Smart & Accessible: Optional LED handles, smart-lock compatibility and low-threshold options.

Sustainable: Fully recyclable aluminium and eco-friendly insulation materials.

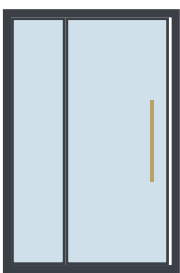


Pivot / aller-retour profile section

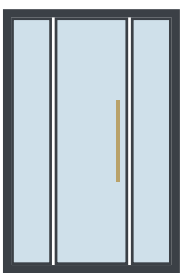
Typologies



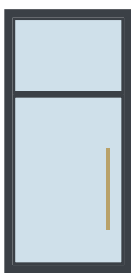
Pivot — single



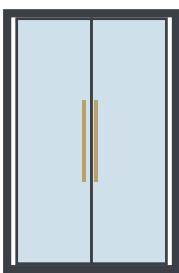
Pivot + sidelight



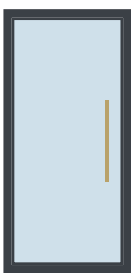
Pivot + 2 sidelights



Pivot + transom



Double pivot



Aller-retour

Technical Specifications

Door Types	Pivot / Aller-retour · single / double · fixed frames · top fixed · combinations
Max Sash Weight	250 kg
Max Sash Area	6 m²
Max Sash Dimensions	2.0 m (W) × 3.5 m (H)
Min. Construction Width	1.25 m (pivot at 25 cm from the leaf)
System Depth	104.6 mm (with 6 mm cladding each side)
Cladding Thickness	Up to 65 mm per side
Thermal Break	32 mm polyamides
Thermal Transmittance (U _w)	Up to 0.7 W/(m²K)
Cladding Options	Aluminium / Glass / Laminated / Ceramic / Timber
Handle Options	Concealed double handle with LED (L/R)
Locking	Smart-lock & access-control compatible
Applications	Residential / Commercial / Architectural entrances



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