



P500

Slide Thermal Hybrid System

High-Performance
Aluminium Sliding Window
& Patio Door System

POUPA
ALUMINIUM SYSTEMS
EXTRUSION COMPANY

P500

Slide Thermal Hybrid System

A cutting-edge aluminium sliding window and patio door system designed for uncompromised performance, architectural flexibility, and thermal excellence. The **P500 Thermal Hybrid** system accommodates both classic sliding (up to 240 kg/sash) and Lift & Slide (up to 300 kg/sash) applications, making it the ideal choice for both residential and commercial use.

Engineered for medium to large-scale constructions, it offers exceptional thermal efficiency and smooth functionality. Its ultra-slim thermal interlocks - the narrowest available on the market - enable expansive views without sacrificing energy performance.

Modern Design. Extreme Versatility.

- ▮ Slim sightlines with thermal interlocks of 81.3 mm, 44 mm, and industry leading 25 mm for modern aesthetics.
- ▮ Additional reinforced 25 mm thermal interlock for large, heavy sashes without compromising slimness.
- ▮ Optional corner opening solutions, up to 6-track configurations, and multi-panel arrangements.

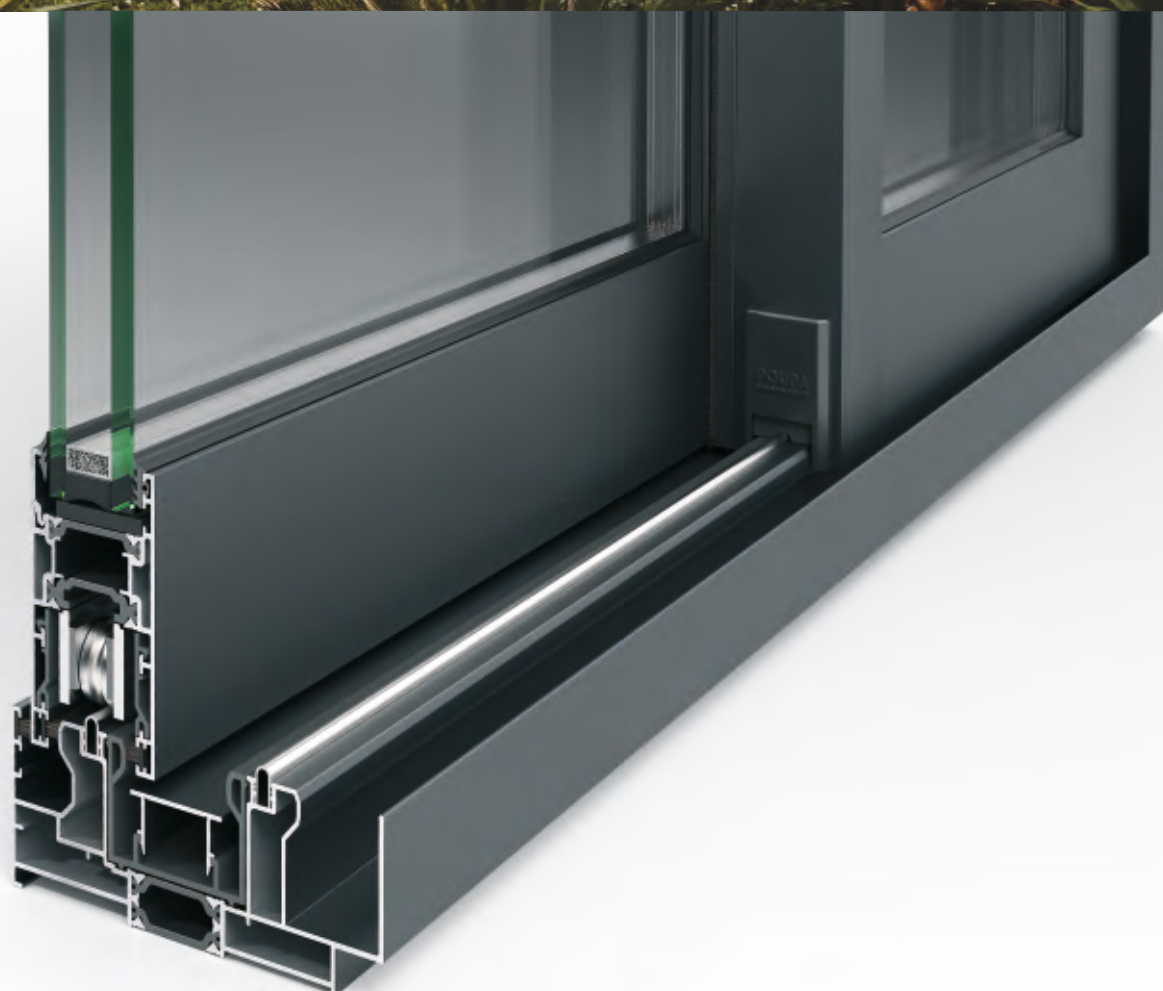
Key Design Features

- ▮ Hybrid sliding system using aluminium, polyamide and plastic profiles for unparalleled thermal performance.
- ▮ Up to six-track configurations with or without insects' sash provision.
- ▮ Corner and pocket solutions to emphasise uninterrupted views.
- ▮ Same floor level configuration available with concealed drain channel.
- ▮ Sash up to 240 kg (sliding) / 300 kg (Lift & Slide)
- ▮ Sash height: 78 mm | Track heights: 38.5mm & 48 mm
- ▮ Customizable interlocks for size & aesthetics
- ▮ Modern gasket layout & concealed drainage
- ▮ Hotel Line Configuration Available - Optimized for hotels and apartments, this configuration features fixed glazing with sliding doors

Advanced Thermal Technology

The P500 Thermal Hybrid system is engineered with 30-34 mm polyamide thermal barriers, delivering best-in-class thermal insulation. Unique placement of thermal breaks, plastic profiles wrapping internal surfaces, and high-grade gaskets ensure minimal thermal bridging and high energy efficiency.





1,3
 $U_w(W/m^2K)$



Class 4
(EN 12207)



Class 7A
(EN 12208)



C3
(EN 12210)



41
 $R_w(dB)$



System Advantages

Superior Insulation: High-performance polyamides and gaskets deliver excellent thermal efficiency.

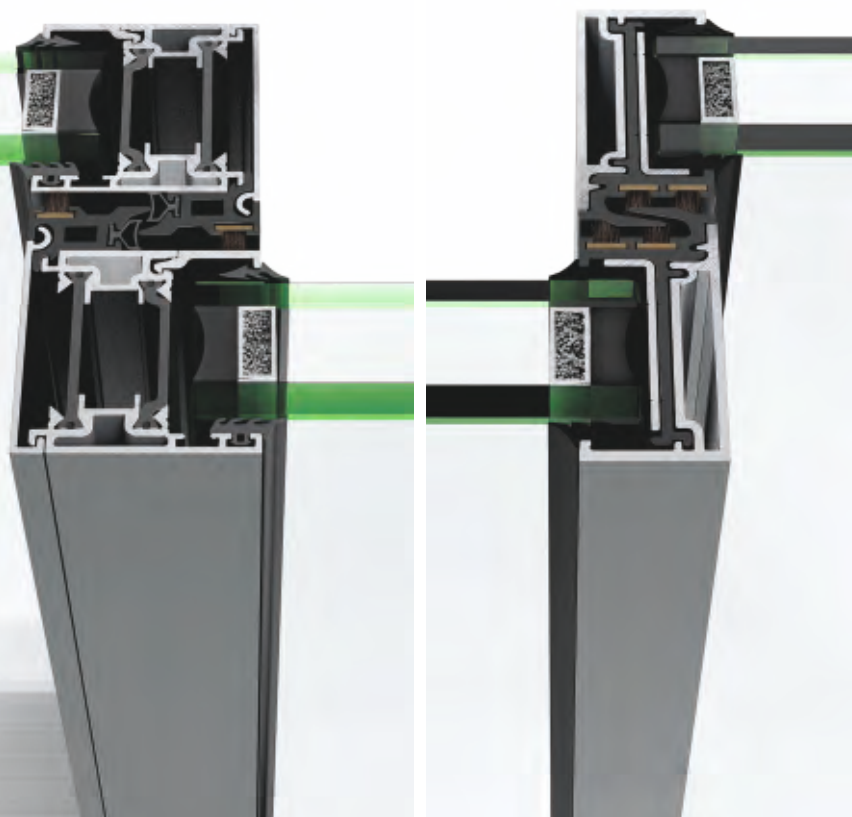
Extreme Weather Resistance: Certified against air, water, and wind loads - ideal for exposed buildings.

Unobstructed Views: Ultra-slim thermal interlocks maximize light and visual continuity.

Simplified Fabrication & Installation: Modular design with pre-assembled thermal profiles and flexible components makes setup fast and efficient driving down labour cost.

Sustainable by Design: Crafted from eco-friendly, sustainable materials - good for performance and the planet.

Precision Sliding Performance: Equipped with stainless steel rails and stainless-steel rollers for exceptionally smooth, durable, and low-friction operation—even under maximum sash loads.



Typologies



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Technical Specifications

Sash Types	Sliding / Lift & Slide
Max Sash Weight	240 kg (Sliding) / 300 kg (Lift & Slide)
Sash Height	78 mm
Track Heights	38.5mm / 48 mm
Double track Width	110 mm
Thermal Interlocks	81.3 mm / 44 mm / 25 mm
Reinforced Interlocks	25 mm (for large sashes)
Thermal Break Width	30 mm / 32 mm / 34 mm polyamides
Glass Options	Up to 32 mm
Tracks Available	Double / Triple / Quadruple / Quintuple / Six-track
Corner / Pocket Options	Yes
Hotel Line Configurations	Yes (Available in Sliding / Lift & Slide)

Optional Add-ons

Flyscreen integration	
Intergration with sliding shutters / louvres	
Stainless Steel rails and rollers	



www.techart.xyz

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