



P50

Curtain Wall System

Unlimited Design Flexibility
Minimal Aesthetic.
Advanced
Performance

POUPA
ALUMINIUM SYSTEMS
EXTRUSION COMPANY

P50

Curtain Wall System

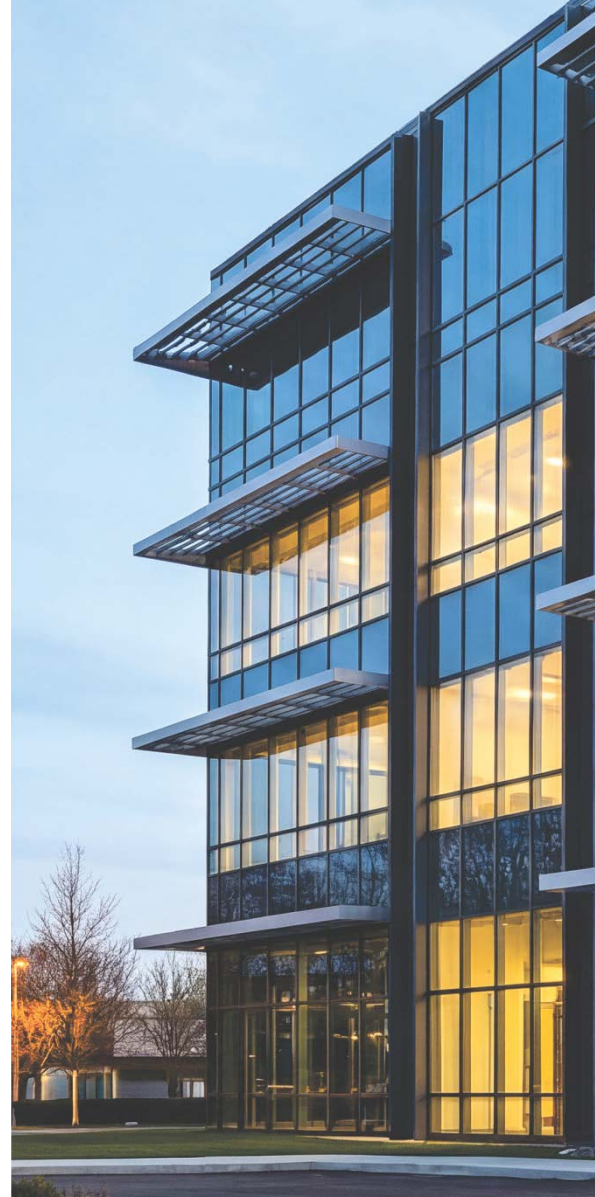
P50 is a versatile façade and roofing system designed to provide exceptional architectural flexibility while maximizing natural light penetration. It fully aligns with the demands of modern building design, enabling expansive glazed surfaces and supporting the trend toward larger, heavier, and thicker glass panels. Depending on the configuration, the system can accommodate glass weights of up to 600 kg, with the possibility of handling even greater loads through customized solutions.

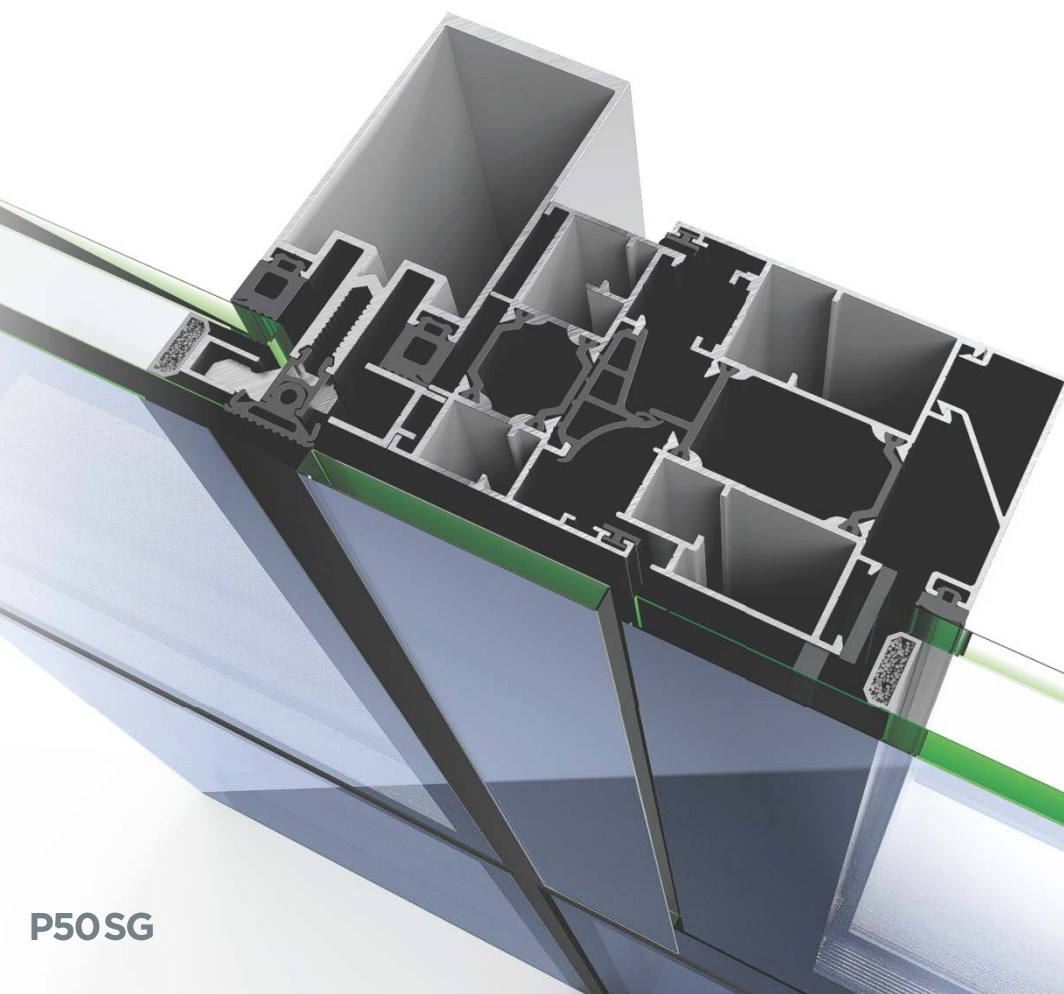
Multiple design options and glazing methods are available within the P50 range, including variants of traditional pressure plate systems, as well as structurally bonded or mechanically clamped glass solutions. The system can be tailored to achieve specific performance requirements, such as enhanced sound insulation, increased security classifications, and high levels of thermal efficiency.

A wide variety of opening elements can be smoothly incorporated into the façade, such as top-hung windows, concealed turn-and-tilt units and structural glazing doors. P50 constructions can also be used with integrated vertical shading systems for improved solar control.

Design Characteristics

- 1 Comprehensive system including profiles, seals, accessories, and dedicated tooling for streamlined production and installation
- 1 Engineered to simplify both manufacturing processes and on-site assembly
- 1 Wide range of profiles to meet modern architectural requirements
- 1 High compatibility with contemporary façade design standards
- 1 Advanced thermal performance options supporting energy-efficient construction
- 1 Suitable for triple glazing applications and high-spec glazing systems
- 1 Designed for low-energy and passive building projects
- 1 Seamless integration of high-performance opening units into the façade
- 1 Combines functional efficiency with refined, modern aesthetics





>0.75
 $U_w(W/m^2K)$



Design Load
+/- 2.5 kN/m²
Safety Load
+/- 3.75 kN/m²



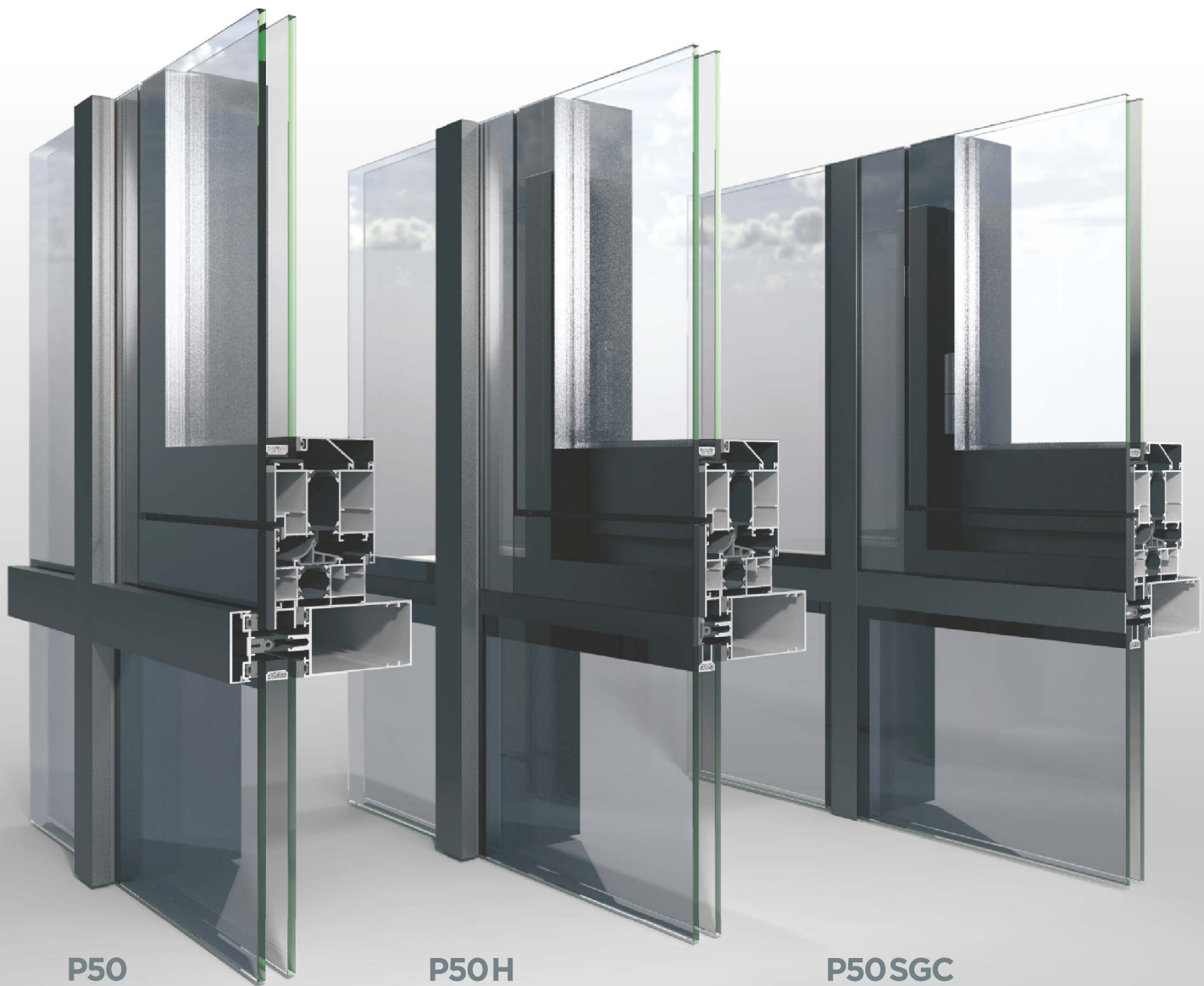
RE 750
(EN 12208)



AE +/-1200
(EN 12210)



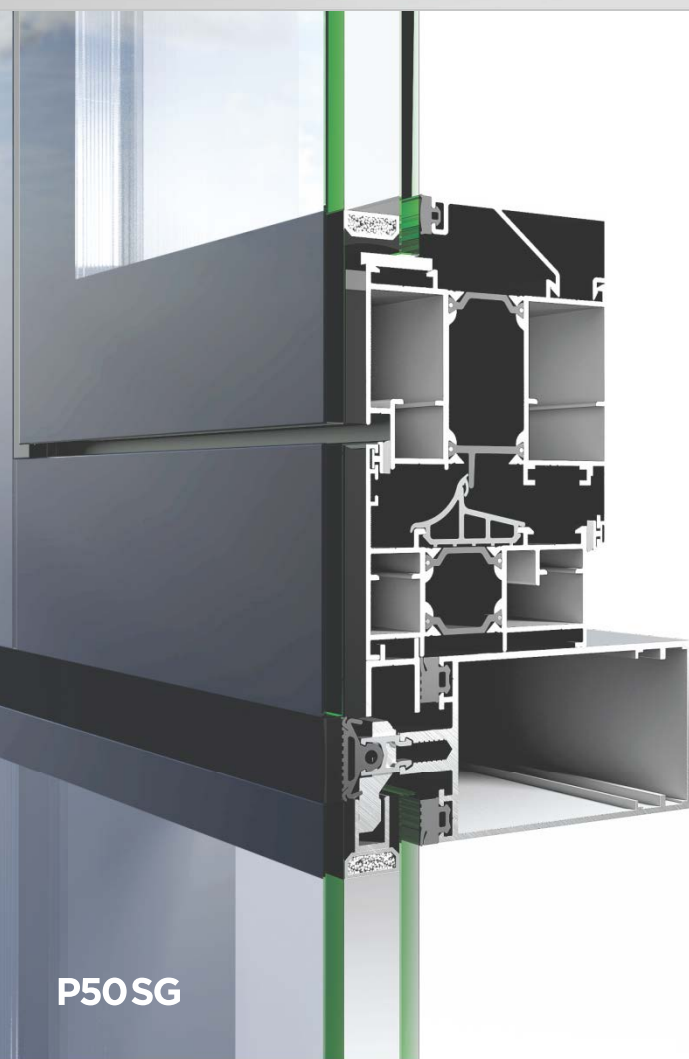
48
 $R_w(dB)$



P50

P50H

P50SGC



P50SG

Design Features

- ┐ 50 mm standard sightlines
- ┐ Optional 20 mm slim mullions
- ┐ Wide range of mullion and transom depths
- ┐ Designed with 3 Drainage levels, ensuring high watertightness and controlled water evacuation, even under severe weather conditions.
- ┐ Modular system with full accessory range
- ┐ Integration of diverse insert units from Poupa window, doors and sliding systems

Glazing Options

- ┐ Single, double and triple glazing
- ┐ Toggle key structural glazing systems
- ┐ Large panel capability (subject to structural calculations)

Opening Elements

- ┐ Top Hung Windows (Max. sash weight 180 kg, and up to 2.5m in height)
- ┐ Inward Opening Windows (Max. sash weight 130 kg)
- ┐ Structural Glazing Doors (inward & outward - Max. door weight 200 kg)
- ┐ Structural Tilt & Turn Windows (Max. sash weight 130 kg)

Shading Solutions

- ┐ External aluminium louvres
- ┐ 50 mm depth
- ┐ Width up to 1000 mm (subject to calculations)

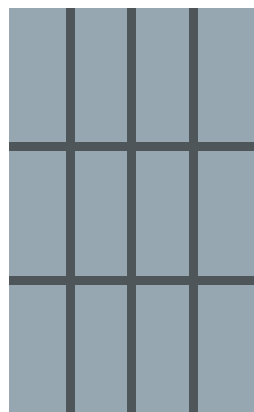
Performance & Engineering

- ┐ High structural performance
- ┐ Advanced air and water tightness
- ┐ Thermal break compatibility
- ┐ Easy fabrication and installation

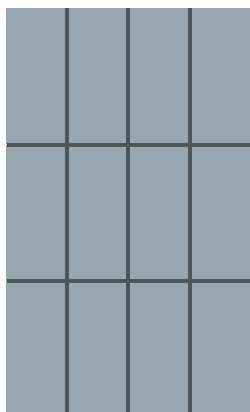
Applications

- ┐ Commercial buildings, offices, residential projects, hotels, and high-end

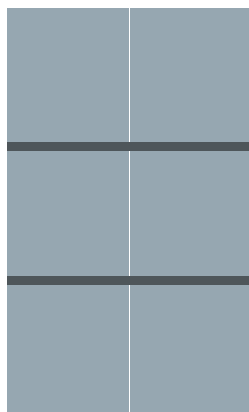
Typologies



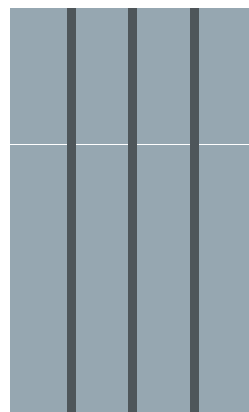
P50



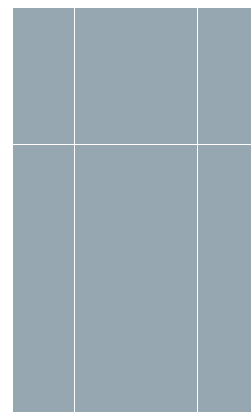
P50SGC



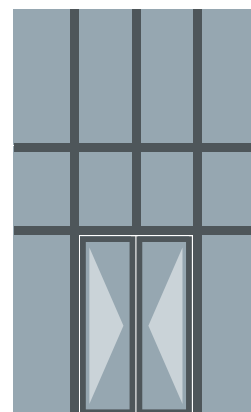
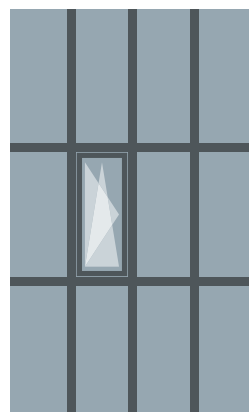
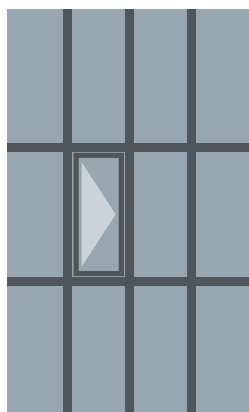
P50HHorizontal



P50HVertical



P50SG



P50

Curtain Wall System

Technical Characteristics

	P50	P50SG	P50SGC	P50H
Interior visible width	50 mm	50 mm	50 mm	50 mm
Exterior visible width	50 mm	50 mm	50 mm	50 mm
Slim slender appearance width	20 mm	20 mm	20 mm	20 mm
Depth Mullions	30 - 218 mm	30 - 218 mm	30 - 218 mm	30 - 218 mm
Depth Transoms	30 - 218 mm	30 - 218 mm	30 - 218 mm	30 - 218 mm
Exterior face covers	Different shapes available	Not applicable	35mm Slim cover	Different shapes available
Glazing	Clamped /Pressure plates	Structural glazing and locally clamped with toggle keys	Structural glazing and locally clamped with toggle keys	Vertical: Clamped / Pressure plates Horizontal: Structural glazing and locally clamped with toggle keys
Glass thickness	From 6 to 55 mm	From 6 to 55 mm	From 6 to 55 mm	From 6 to 55 mm
Triple glazing available	Yes	Yes	Yes	Yes



www.TechART.xyz

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