



P250

Opening Thermal System

High-Performance
Aluminium Hinged
Window System

POUPA
ALUMINIUM SYSTEMS
EXTRUSION COMPANY

P250

Opening Thermal System

The **P250 Thermal** is a high-performance aluminium openable casement system engineered for projects where energy efficiency, durability, and security are non-negotiable. With class-leading thermal insulation and outstanding weather performance, the P250 Thermal is an ideal solution for both residential and commercial applications demanding long-term reliability and comfort.

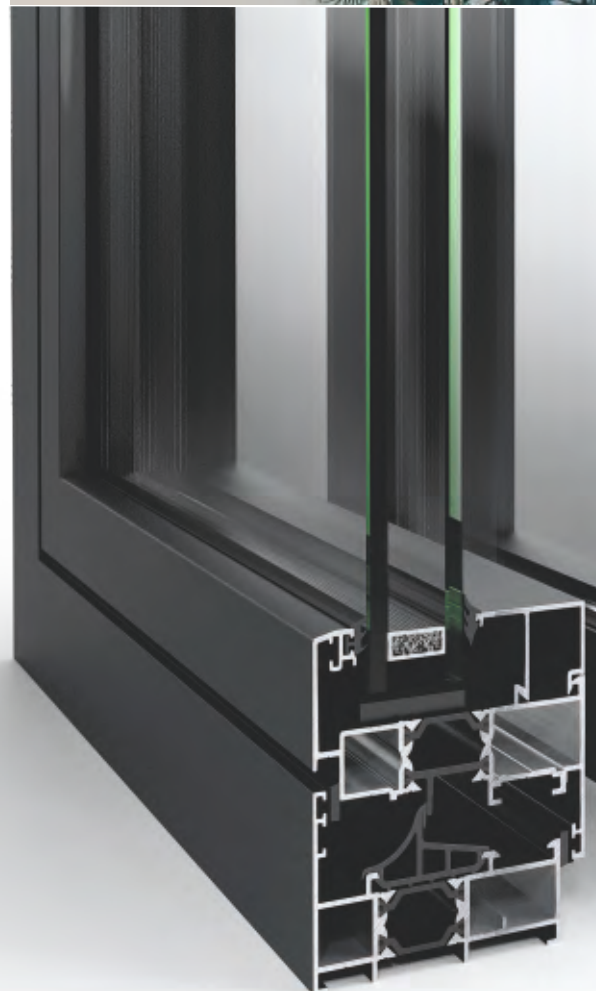
Like all **POUPA** systems, the P250 Thermal incorporates multiple locking points as standard, ensuring enhanced security and peace of mind. A wide range of typologies and opening configurations makes this system exceptionally versatile, offering a refined balance between aesthetics, performance, and energy savings for the most discerning user.

Modern Design. Proven Performance.

- ┐ Elegant, balanced aluminium profiles designed for contemporary architecture
- ┐ Optimised thermal break technology for superior insulation
- ┐ Wide range of typologies to suit diverse architectural needs, including:
 - ┐ hinged windows and doors,
 - ┐ tilt and turn windows, awning and hopper windows
 - ┐ and fixed pane constructions
- ┐ Designed to perform under extreme weather conditions

Key Design Features

- ┐ Straight-line profile design aligned with current architectural trends, delivering a clean and contemporary aesthetic.
- ┐ Multiple locking points for enhanced security against intrusion
- ┐ High-performance gasket system for airtightness and watertightness
- ┐ Suitable for a wide range of residential and commercial applications
- ┐ Supports thick glazing options for improved thermal and acoustic performance
- ┐ Robust construction allowing for large sash dimensions and heavy glazing
- ┐ Sash up to 160 kg (tilt & turn)
- ┐ Frame and sash height for windows: 71.2 mm and 85.3 mm
- ┐ System available in Eurogroove and ALU16 profiles





>1,2
 $U_w(\text{W/m}^2\text{K})$



Class 4
(EN 12207)



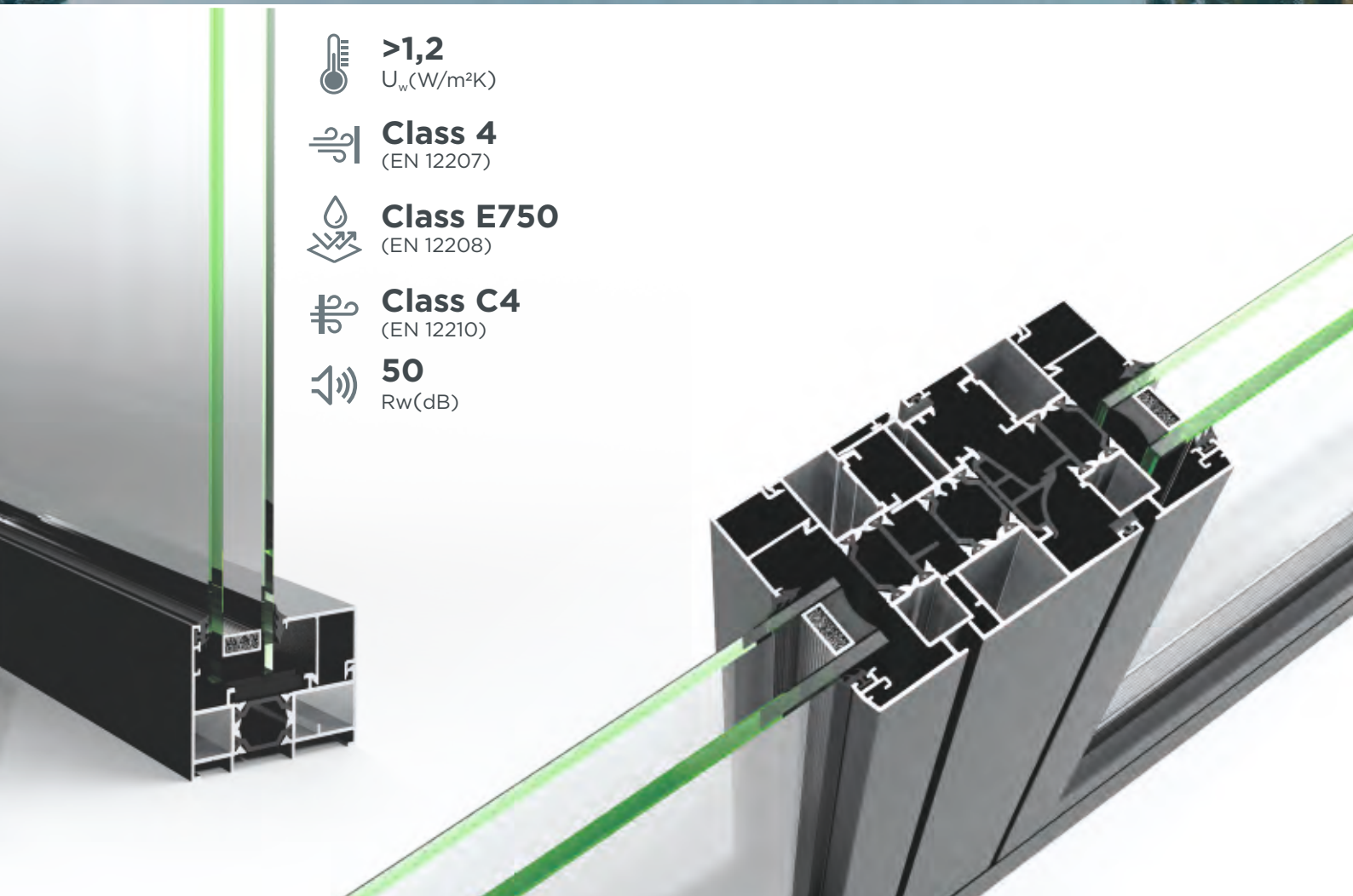
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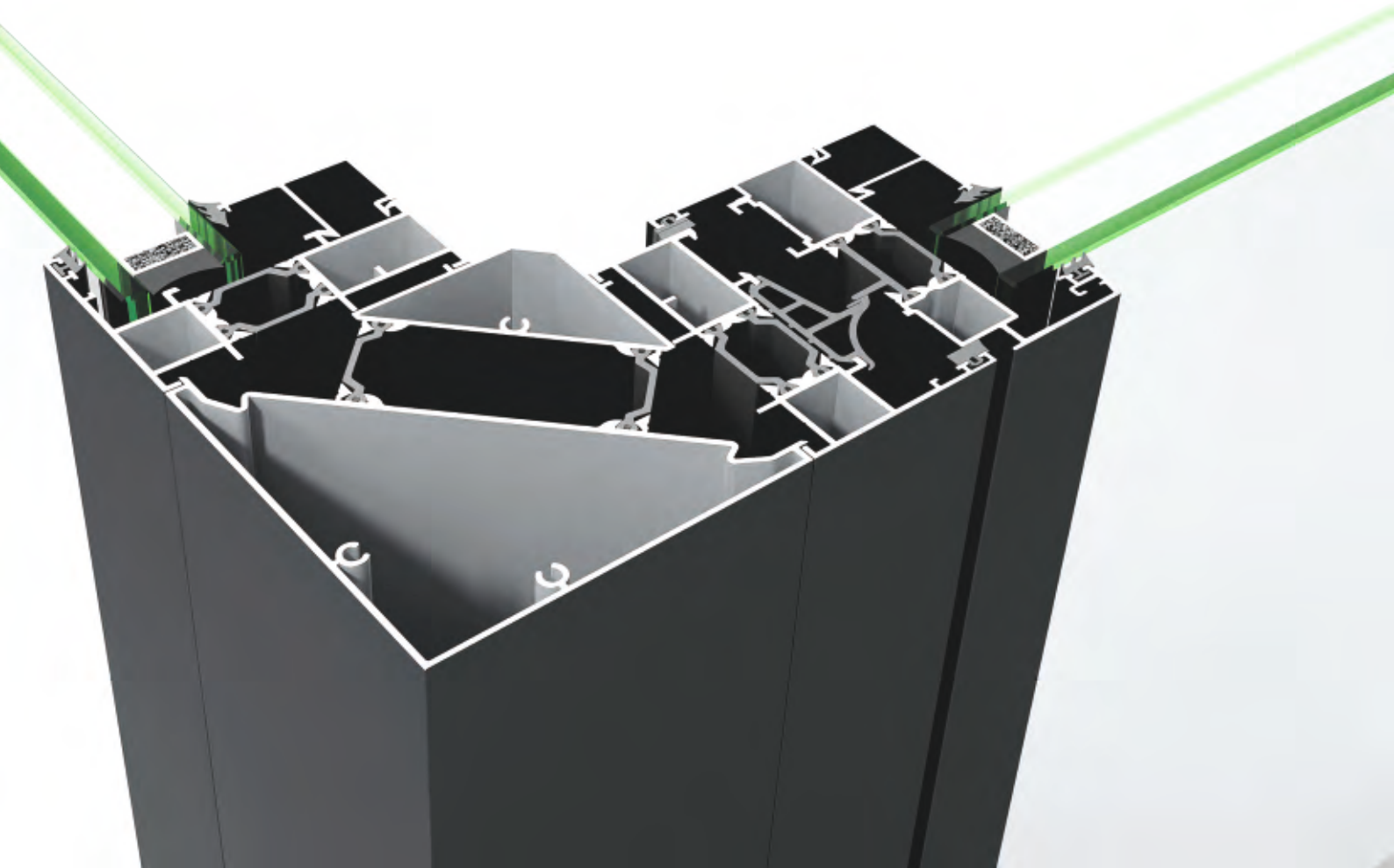


Class C4
(EN 12210)



50
 $R_w(\text{dB})$





Advanced Thermal Technology

The P250 Thermal system is designed with high-efficiency thermal breaks and optimised profile geometry to significantly reduce heat transfer. This results in excellent thermal insulation, improved indoor comfort, and reduced energy consumption. When combined with high-performance glazing, the system delivers very good sound insulation and outstanding overall energy performance.

System Advantages

Excellent Thermal Insulation:

Designed to meet modern energy-saving requirements.

Extreme Weather Resistance:

High classification in water tightness, air permeability, and wind load resistance.

Sustainable by Design:

Crafted from eco-friendly, sustainable materials - good for performance and the planet.

Wide Range of Typologies -

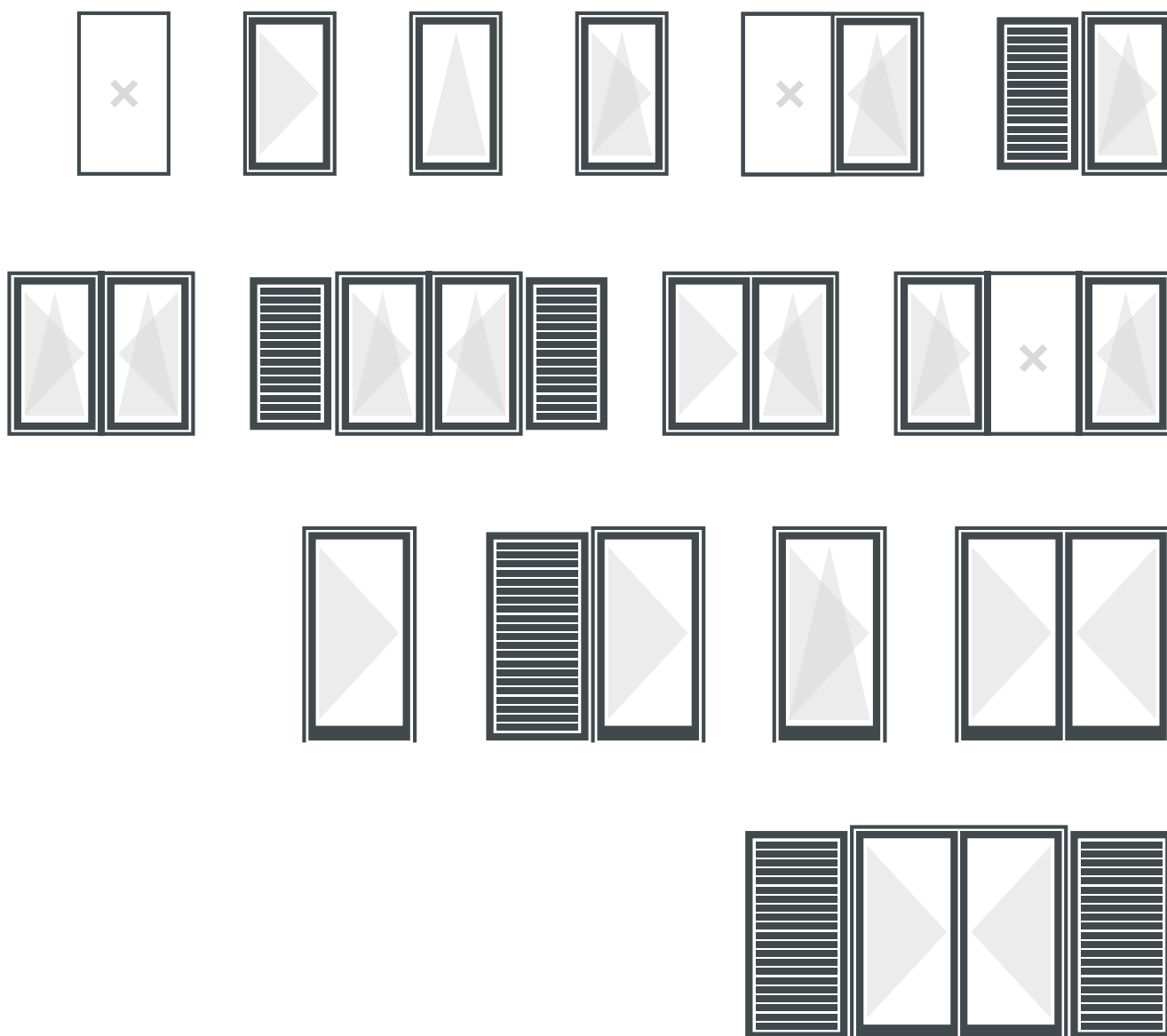
Multiple opening and accessories options offering flexibility in design and installation.

Excellent Acoustic Performance:

Improved sound insulation for increased indoor comfort

Elegant Design:

Clean lines and balanced proportions for modern architectural aesthetics



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Technical Specifications

System Types	Openable / Tilt & Turn / Projected / Tilt / Fixed
Max Sash Weight	160 kg
Sash Height	64.2 / 66.6 / 72.7 / 74.7 / 84 / 84.1 / 94 / 104.9 mm
Frame Height	35 / 49.1 / 54 / 56 / 72 mm
Sash Width	77.5 mm
Frame Width	70 mm
Visible Width of T mullion profiles	70 / 94 mm
Compatible with Double and Triple Sliding track (P500 Thermal Hybrid)	Yes - 110 / 168 mm
Type of mechanism	Eurogroove, ALU-16
Thermal Break Width	24 / 34 mm polyamides
Glass Options	From 22 up to 55 mm (Double and triple glazing)
Corner constructions / Variable angle constructions	Yes / Yes

Optional Add-ons

- Fixed Flyscreen integration
- Visible and hidden tilt & turn mechanisms
- Available door drop seals and bottom threshold profiles for perimeter sealing



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