

ELVIAL

W59 SI²

elvial



OPENING SYSTEM

Imagine a place where novelties and custom co-exist in a wonderful accord, where everything is measured by how it achieves a balance between antagonistic elements, and where what you imagine can be realized and shared with a community. This is the inspiration we drew upon to create W59 SI².

ELVIAL

W59 SI²

This solution meets the challenges of a project that must withstand diverse climatic conditions and lifestyles



INWARD OPENING CONSTRUCTIONS

OUTWARD OPENING CONSTRUCTIONS

	Single sash fixed		Single sash tilt & turn with fixed parts using contractions and expansions
	Single sash fixed with skylight		Double sash opening
	Single sash opening		Double sash tilt & turn
	Single sash tilt & turn		Double sash angular tilt & turn
	Single sash tilt & turn with fixed part		Double sash angular fixed
	Single sash pivot with vertical axis		Double sash fixed
	Single sash pivot with horizontal axis		
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	Single sash opening window door		Double sash opening window door
	Single sash opening window door with fixed part		Double sash angular opening
	Single sash projected		Special typology window wall

TECHNOLOGY

THERMAL INSULATION

- 1 **24mm** Insulating Bars
- 2 Glazing Gaskets with **Fins**
- 3 **ELVIAL I²** _ Innovative Insulation Technology
- 4 Foam **Insulating** Profile

SEALING SYSTEM

- 1 Optimal 3-level Waterproofing with specially designed **EPDM** and Co-extruded Gasket
- 2 **Drainage** Channels
- 3 **EPDM** Gasket Corners
- 4 **EPDM** Accessory for Adjoining Profile End Cap

EXTRA FEATURES

HANDLES FOR UNIQUE STYLE



COLORS



ENERGY LEVELS



Level 1
*Uf: ≥ 2.3 W/m²K



Level 2
*Uf: ≥ 2.0 W/m²K

*Energy performances concern the specific sash-frame combination



Level 3
*Uf: ≥ 1.9 W/m²K

IDENTITY

DESIGN

PROPERTIES

PERFORMANCE

ENERGY

COMFORT

NAFS

*For fixed and inward - outward opening

Frame Depth		58.6 mm
Min Face Height Frame - Sash		94.1 mm
Min Face Height Threshold - Sash		107.5 mm
Min Face Height Middle Mullion		155.7 mm
Max Sash Height		2.300 mm
Max Sash Width		1.000 mm
Max Sash Weight		130 kg
Max Glass Thickness		46 mm

ELVIAL W59 SI² offers you endless solutions in both European groove mechanism **[CE]** and Multilock groove mechanism **[ML]**

Thermal Insulation Uf	EN ISO 10077-2	≥ 1.8 W/m²K
2-Sash Construction 1.000 x 2.200 mm	Double Glazing, Ug = 1.1 W/m ² K with Swisspacer Ultimate	Uw ≥ 1.6 W/m²K
Air Permeability	EN 12207	Class 4 [600Pa]
Watertightness	EN 12208	E1650 [1.650Pa]
Resistance to Wind Load	EN 12210	C5 / B5 [2.000Pa]
Sound Reduction	EN 10140-2	40dB ^{Glazing} 33.1/16/44.1
AAMA Rating		Class CW*
PG Rating		100*

SEE LIFE FROM A DIFFERENT
VIEW THROUGH ELVIAL'S
ALUMINIUM SYSTEMS

DISCOVER OUR INNOVATIVE TECHNOLOGIES

ELVIAL I² INSULATION TECHNOLOGY
ELVIAL PRE-ANODIZING 2IN1

DISCOVER MORE ALUMINIUM SYSTEMS

ESSENCE W67 HI²
ESSENCE W67BS HI²
ESSENCE W67ST HI²

ELVIAL W60BS SI²

ELVIAL SL50 HI² CLASSIC
ESSENCE SL50 HI² FLAT EDITION

ELVIAL SL46 SI² CLASSIC
ELVIAL SL46 SI² FLAT EDITION
ELVIAL SL46 SI²_MD

ELVIAL SL33_MD

ESSENCE D67 HI²

ESSENCE SD55
ESSENCE CLADDING CL180