



**ALDABRA**

**Premium Building Systems**

# ALDABRA

We dedicate ourselves to the best thermal break aluminium fenestration systems that elevate every space—architecturally, aesthetically, and environmentally. Situated in Stellenbosch, Cape Town, we serve homeowners, architects, and developers who demand more from their builds.



# ZEPHYR SERIES



A symphony of quality innovations unfolds with micro vents, lift & sliding, turn & tilt systems and more, each a vital note in a harmonious collection.

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## **MICRO VENTILATION**

Optimized for natural airflow, smart ventilation, and seamless indoor-outdoor comfort.

The flagship "Zephyr" range creates an ambiance of openness and circulation. Combined with architectural living spaces, while keeping homes safe from intruders.

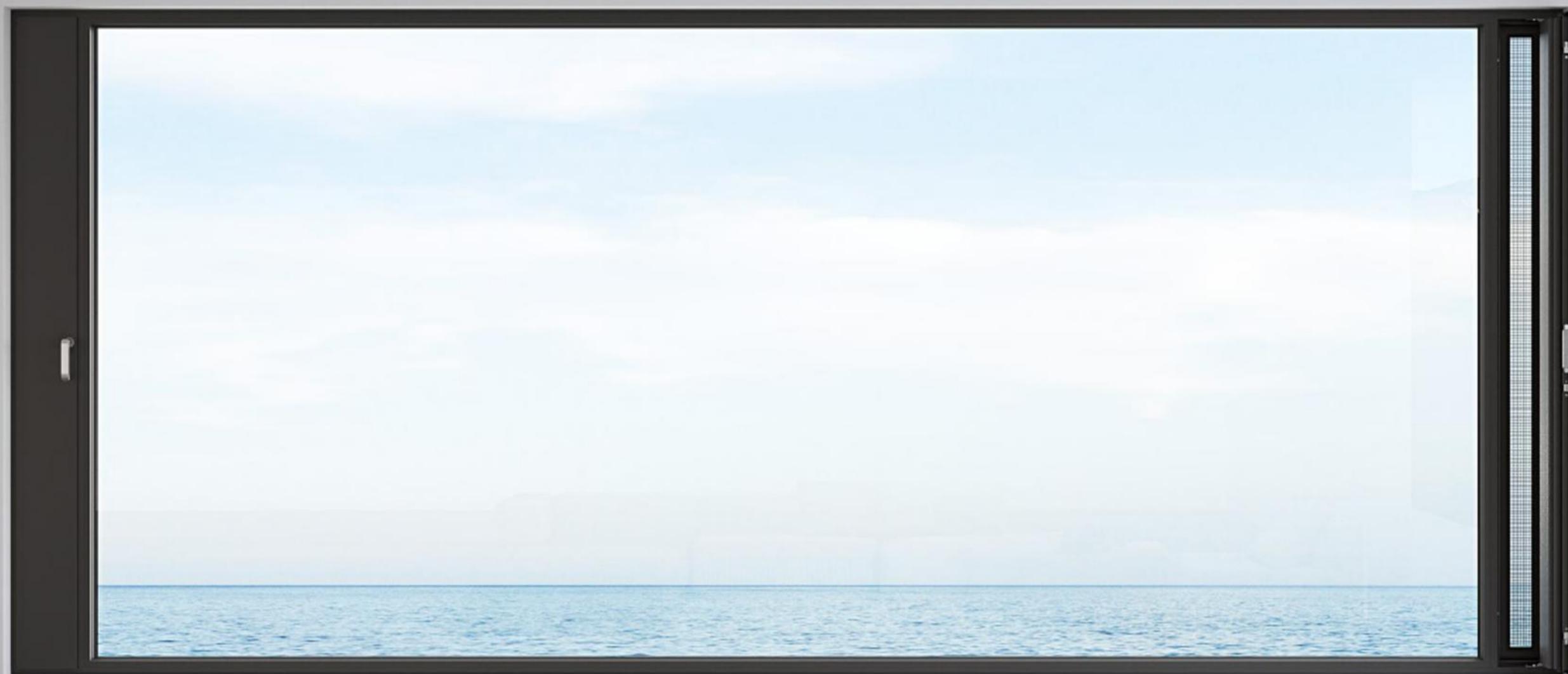
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## Advanced Security & Airflow

The Zephyr micro-vent features an integrated stainless steel screen and multi-point locking as standard, ensuring robust security. It allows for controlled ventilation with a maximum opening width of 100mm, preventing accidental falls and deterring burglars, all while maintaining excellent airflow.



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Micro-ventilation design minimizes visual obstruction, offering a wider field of view while maintaining proper airflow. The vent meets all safety regulations—wide enough for ventilation but narrow enough to prevent intrusion.

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Designed for discerning clients who appreciate the fusion of innovative engineering and architectural elegance.

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## **TURN & TILT SYSTEMS: VERSATILITY AND SECURITY**

The Turn-and-Tilt system combines safety, advanced ventilation, and energy efficiency. This dual functionality makes it an ideal solution for both modern residential homes and high-performance commercial spaces. Optional features, such as integrated stainless steel security screens or burglar bars, can be seamlessly added for enhanced protection.

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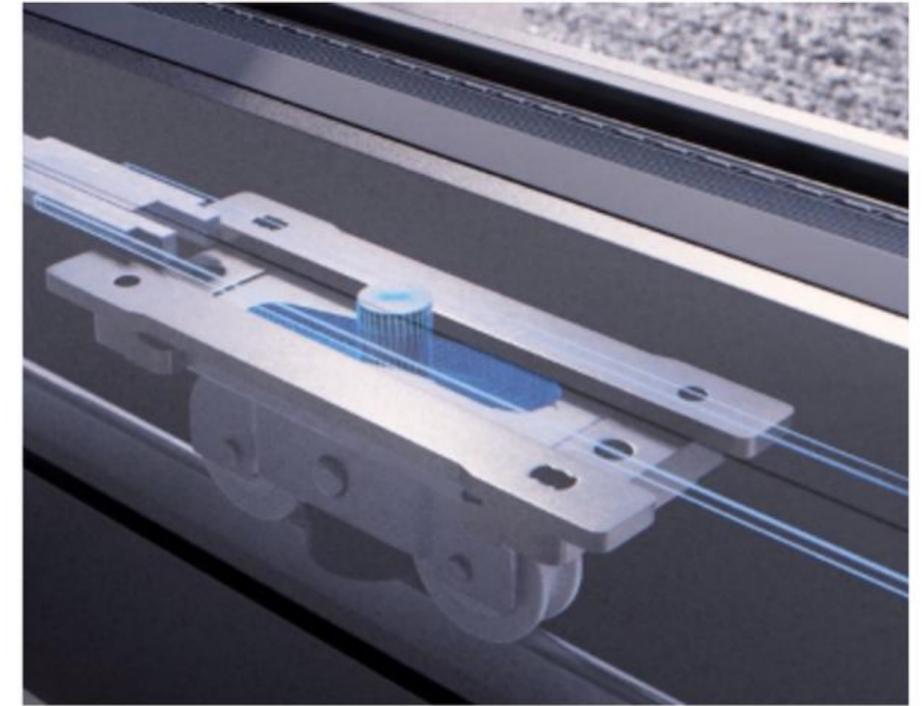


## **LIFT & SLIDE SYSTEMS:**

### **EFFORTLESS OPERATION FOR GRAND OPENINGS**

Aldabra's pinnacle of engineering for large glazed panels. Designed for seamless integration into expansive architectural designs, these systems provide effortless operation, allowing single, massive panels to glide open with minimal force.

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When closed, an innovative mechanism lifts the panel, creating a comprehensive, weather-tight seal that offers superior insulation and protection against the elements. This unique operation also reduces stress on the wheels and tracks, significantly extending the system's lifespan and ensuring long-term reliability.

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## FOLDING DOORS

Aldabra's Folding Doors are defined by premium heavy-duty hardware, setting them apart from conventional systems. Engineered for effortless operation, they glide open and close with ultra-smooth precision, requiring minimal effort while delivering maximum durability and performance.

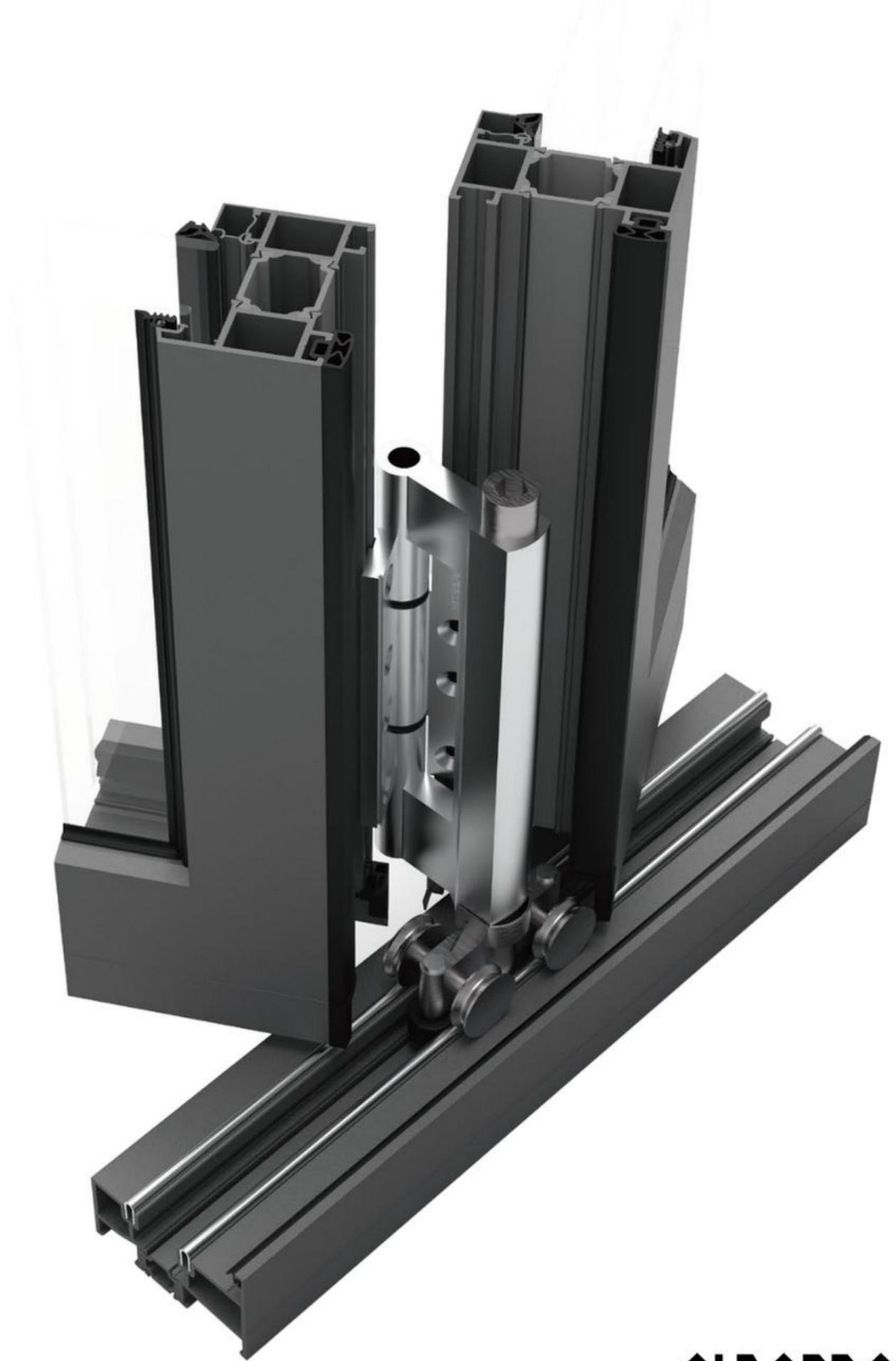
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Aldabra also offers the folding doors an innovative anti-pinch system that prevents fingers from getting caught between panels during operation. The smooth-gliding mechanism enables effortless folding of even large panels while maintaining balanced weight distribution between top and bottom tracks.



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## THE SKYLIGHT

Aldabra skylight combines functionality with elegance, featuring remote-controlled operation and rain sensors for automatic closure. The specialized Low-E glass reduces solar heat gain while maximizing natural daylight, and integrated blinds offer precise light control.

Fixed Skylights are also available per client request for simpler installations.

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## TECHNICAL PARAMETER

	Micro-Vent	Turn & Tilt	Lift & Slide	Folding	Skylight
<b>Profile Thickness</b>	2.0mm				
<b>Minimum Wall Width</b>	78mm	105mm	102mm	93mm	/
<b>R-Value</b>	≥4.0				
<b>Intruder Proof</b>	•	•	•	•	•
<b>Stainless Steel Screen</b>	•	•	Optional	/	/
<b>Glass Specification</b>	5mm + 12 Argon + 5mm LOW E + 1.14 PVB + 5mm				
<b>PVDF Powder Coating</b>	•	•	•	•	•
<b>Vertical Drainage</b>	•	•	•	•	•
<b>Multipoint Lock</b>	•	•	•	•	•
<b>Insulation Sealant</b>	EPDM (M - Class Rubber)				
<b>Thermal Break Profile</b>	PA66GF25 (Nylon & Fiberglass)				
<b>Wind Resistance</b>	Level 9				
<b>Water Tightness</b>	Level 6				
<b>Air Tightness</b>	Level 8				
<b>Sound Reduction</b>	≥38dB				
<b>Hardware Brand</b>	STORO	WEHAG	SOBINCO	STORO	HOPPE

# ZEPHYR SERIES

## TECHNICAL PARAMETER

2.0-2.2mm intruder-proof thermal break aluminium profile  
PVDF powder coating  
Internal vertical drainage system  
PA66FG25 Insulation Sealant  
EPDM Sealing rubber  
Double-glazed low-E & laminated high-impact glass with argon gas filling  
(5mm + 12mm Argon + 5mm Low-E + 1.14PVB + 5mm)  
Multi-point locking  
Intruder-proof ventilation

Optional feature list:

High-transparency SS security screen(SU316)  
Burglar bar  
Two-tone colors  
glass specification  
hardware and handles  
Locking options



100000  
starts



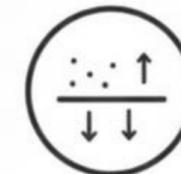
Wind resistance performance  
Level 9



Sound insulation performance  
 $\geq 35$ dB



Water tightness  
Level 6

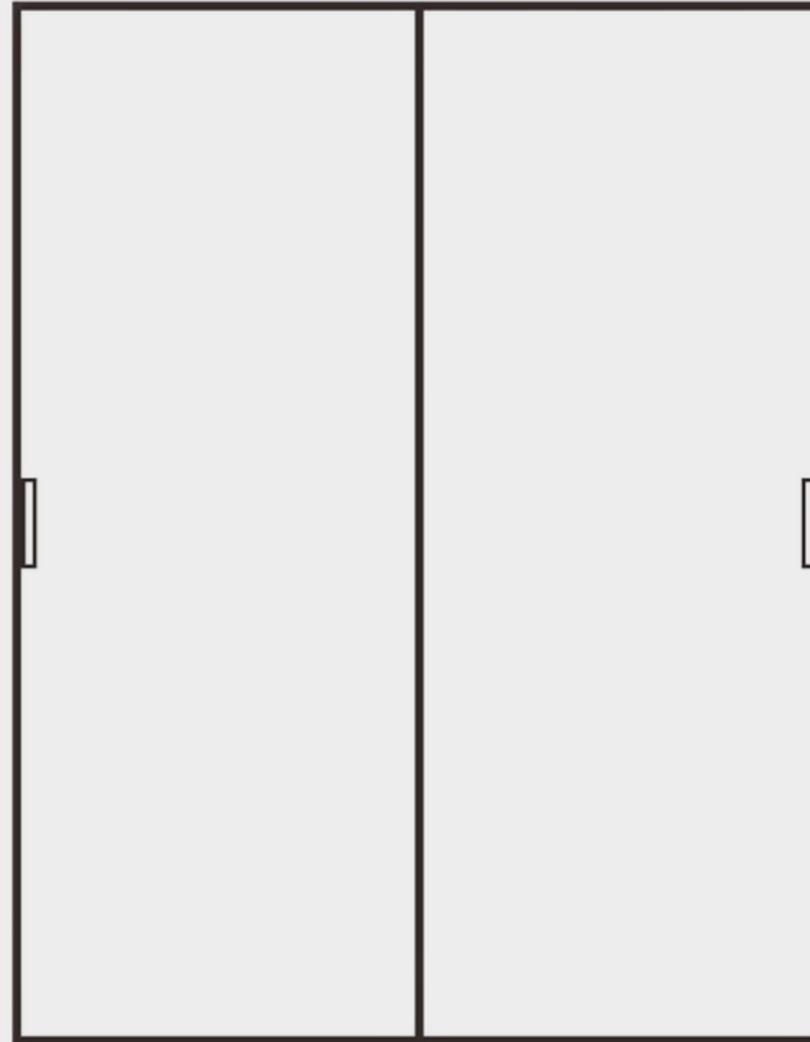


Air tightness performance  
Level 8



Thermal insulation performance  
 $K \leq 2.4$

# EDGE SERIES



The Edge Series emphasizes minimalist design with ultra-slim profiles and sleek hardware, all while maintaining peak performance and elegance.

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## INTERIOR SLIDE DOOR

Aldabra's Ultra Sleek minimalist sliding doors feature whisper-quiet mechanisms, crafted for enduring reliability and seamless performance. At the same time, the sliding doors feature soft-close mechanisms and synchronised movement across two/three track configurations.

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Enhanced with soft-close mechanisms and synchronised movement across two or three track configurations, our sliding doors ensure a smooth, controlled closure every time. High-quality polymer bearings in the rollers guarantee silent operation, while integrated dampers prevent impacts, safeguarding hardware and frame components for extended durability.



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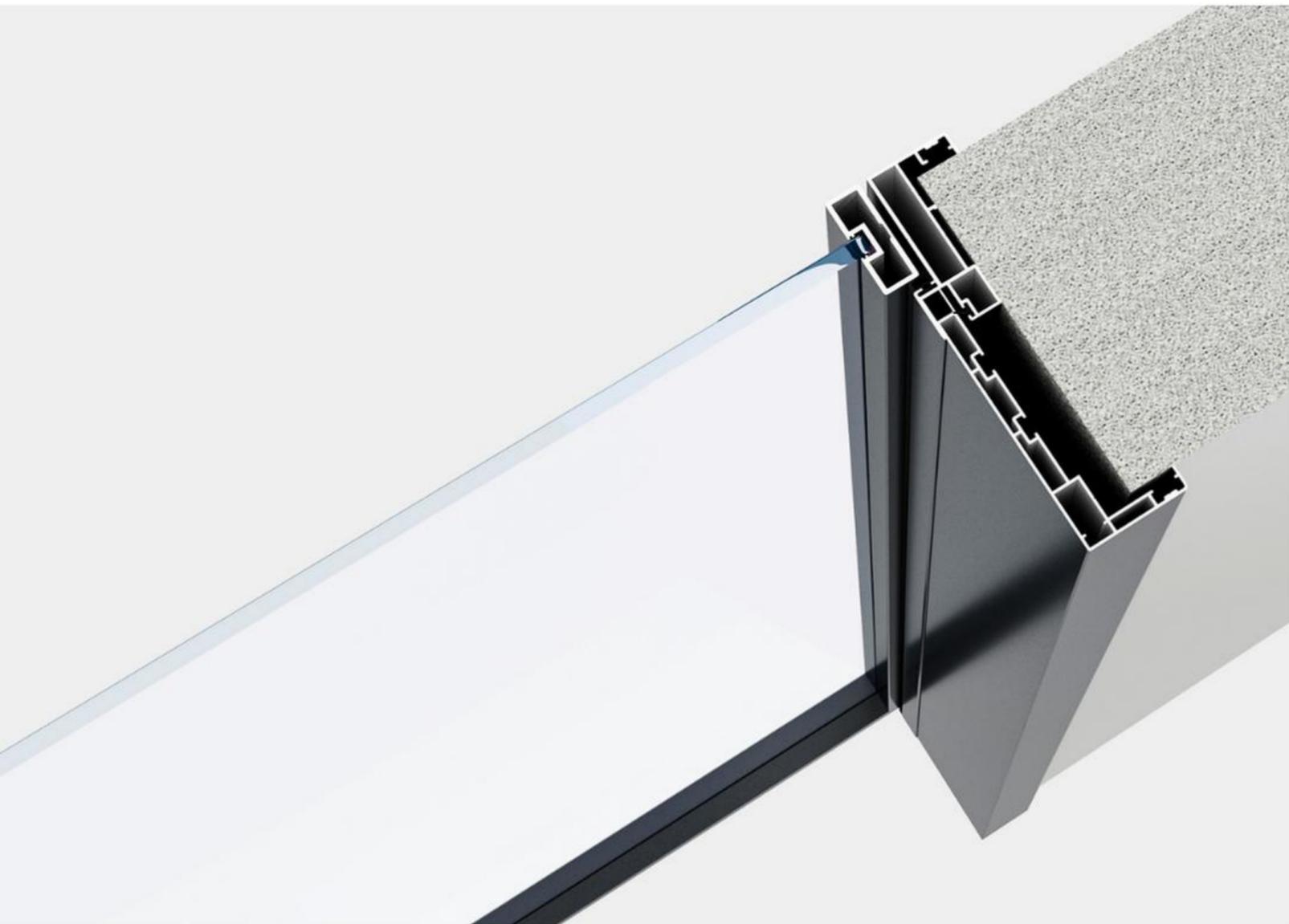
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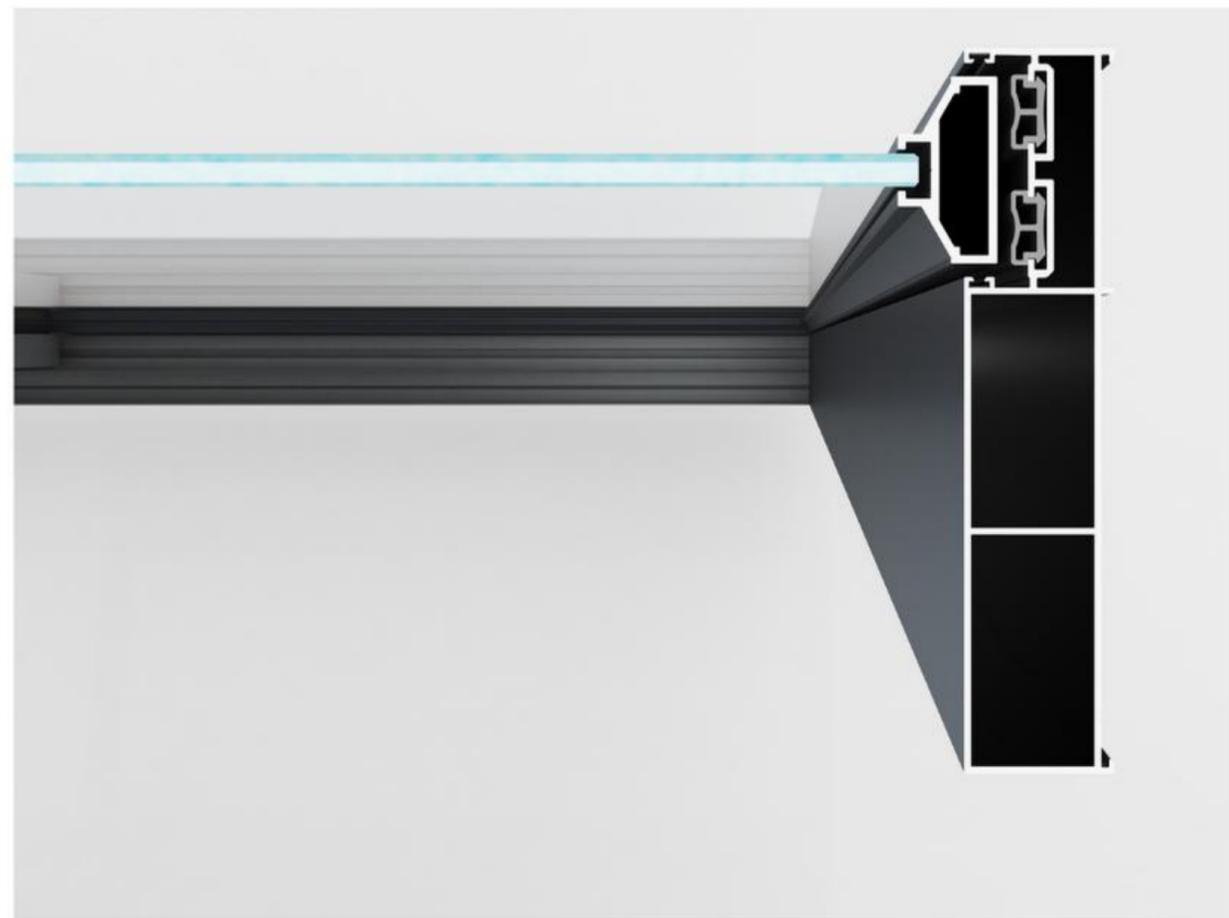
## SWING DOOR

Designed with slim aluminum profiles, Aldabra's swing door offers a sleek, minimalist look without compromising strength. The magnetic mortice lock ensures a smooth, silent close, while its clean lines and durable build make it ideal for modern homes and commercial spaces.

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Ultra-sleek multi-cavity profile still holds Aldabra's pursuit of quality & durability.



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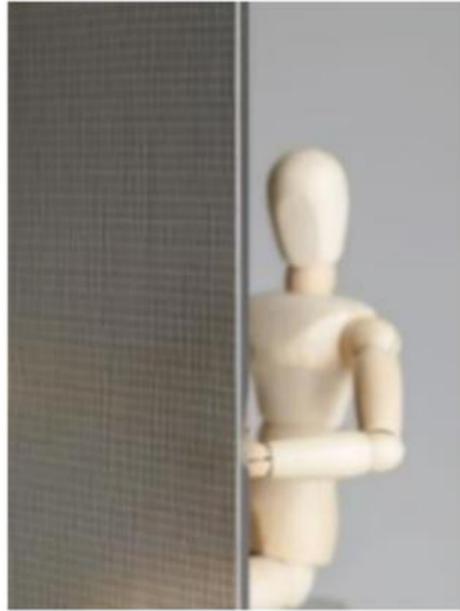
Ultra-silent magnetic mortice and flush locks eliminate the traditional latch noise, making them ideal for not disturbing light sleepers. The innovative design combines function and aesthetics.

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# EDGE SERIES TECHNICAL PARAMETERS

	Swing Door	Slide Door	Top Hung
<b>Profile Thickness</b>		2.0mm	
<b>Minimum Wall Width</b>	78mm	105mm	102mm
<b>R-Value</b>		> 3.0	
<b>Glass Specification</b>		8mm	
<b>PVDF Powder Coating</b>	•	•	•
<b>Insulation Sealant</b>		EPDM	
<b>Multipoint Lock</b>	•	•	•
<b>Wind Resistance</b>		Level 5	/
<b>Water Tightness</b>		Level 3	/
<b>Air Tightness</b>		Level 4	/
<b>Sound Reduction</b>		≥38dB	≥50dB
<b>Hardware</b>	STORO	STORO	STORO

## EDGE SERIES GLASS OPTION



Copper ruby glass / opaque  
4mm + wired glass + 4mm



Copper ruby glass / transparent  
4mm + wired glass + 4mm



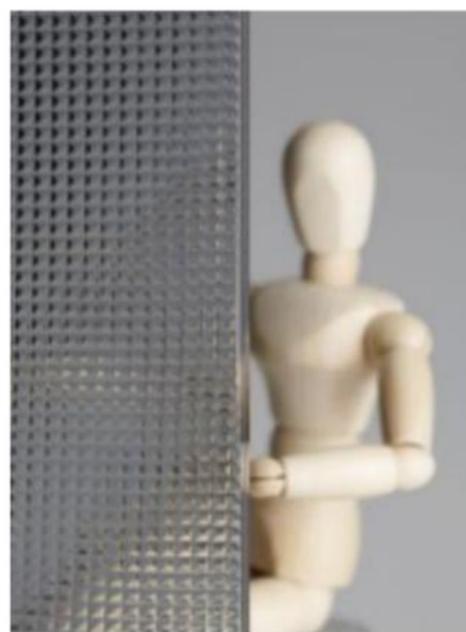
Simple emery  
8mm



Elegant brown double-sided  
oil-sand etched glass  
8mm



Luxury tiled glass / opaque  
4mm + laminated + 4mm



Luxury tiled glass / transparent  
4mm + laminated + 4mm



Luxury gilded / opaque  
4mm + wired glass + 4mm



Luxury intelligent / opaque  
4mm + wired glass + 4mm

# EDGE SERIES

## TECHNICAL PARAMETERS

### Optional Features:

- Top Hung / Trackless System: Experience seamless operation with our top-hung trackless systems, providing an unobstructed floor and a clean aesthetic, perfect for modern Cape Town homes.
- Pocket Door: Maximize your living space with our integrated pocket door solutions, where doors slide discreetly into a wall cavity, offering a sleek and space-saving design for any interior.
- Flush Track: Achieve a minimalist and hazard-free transition between spaces with our flush track system, designed to be level with your flooring, enhancing both safety and design appeal.



Water tightness  
Level 3



Wind resistance performance  
Level 5



Air tightness performance  
Level 4



Sound insulation performance  
 $\geq 35\text{dB}$



# CORE SERIES



Embrace Tranquility with Our Innovative and Sustainable Harmonious Doors and Windows

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## **INWARD/ OUTWARD WINDOWS**

The Core Series emphasizes solid foundations and everyday performance with Aldabra quality. This series offers essential thermal break windows and doors that deliver consistent performance with straightforward design, focuses on core functionality while maintaining Aldabra's signature quality standards and thermal efficiency.

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Highlighted Feature:  
Burglar bar and high transparency pest screen.

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# CORE SERIES TECHNICAL PARAMETER

	In/Outward Window	In/Outward Door	Profile with Screen
<b>Profile Thickness</b>		1.8mm - 2.0mm	
<b>Minimum Wall Width</b>	75mm	75mm	120mm
<b>R-Value</b>		≥4.0	
<b>Intruder Proof</b>	•	•	•
<b>Stainless Steel Screen</b>	/	/	•
<b>Glass Specification</b>		5mm + 20mm Argon + 5mm LOW E	
<b>PVDF Powder Coating</b>	•	•	•
<b>Vertical Drainage</b>	•	•	•
<b>Multipoint Lock</b>	•	•	•
<b>Insulation Sealant</b>		EPDM	
<b>Thermal Break Material</b>		PA66GF25	
<b>Wind Resistance</b>		Level 9	
<b>Water Tightness</b>		Level 6	
<b>Air Tightness</b>		Level 8	
<b>Sound Reduction</b>		≥38dB	
<b>Hardware</b>	WEHAG	WEHAG	STORO

# CORE SERIES

## TECHNICAL PARAMETER

R-Value  $\geq 4.0$

1.8-2.0mm intruder-proof thermal break aluminium profile

PVDF powder coating

Internal vertical drainage system

PA66FG25 Insulation Sealant

EPDM Sealing rubber

Double-glazed low-E, high-impact glass with argon gas  
(5mm + 20mm Argon + 5mm Low-E)

Multi-point locking

Intruder-proof ventilation feature (only applies to Micro-vent)

Optional feature list:

High-transparency SS Security screen (SU316)

Burglar bar

Colors

glass specification

hardware and handles



100000  
starts



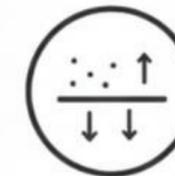
Wind resistance performance  
Level 9



Sound insulation performance  
 $\geq 35\text{dB}$



Water tightness  
Level 6



Air tightness performance  
Level 8



Thermal insulation performance  
 $K \leq 2.4$

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# HIGHLIGHT FEATURES



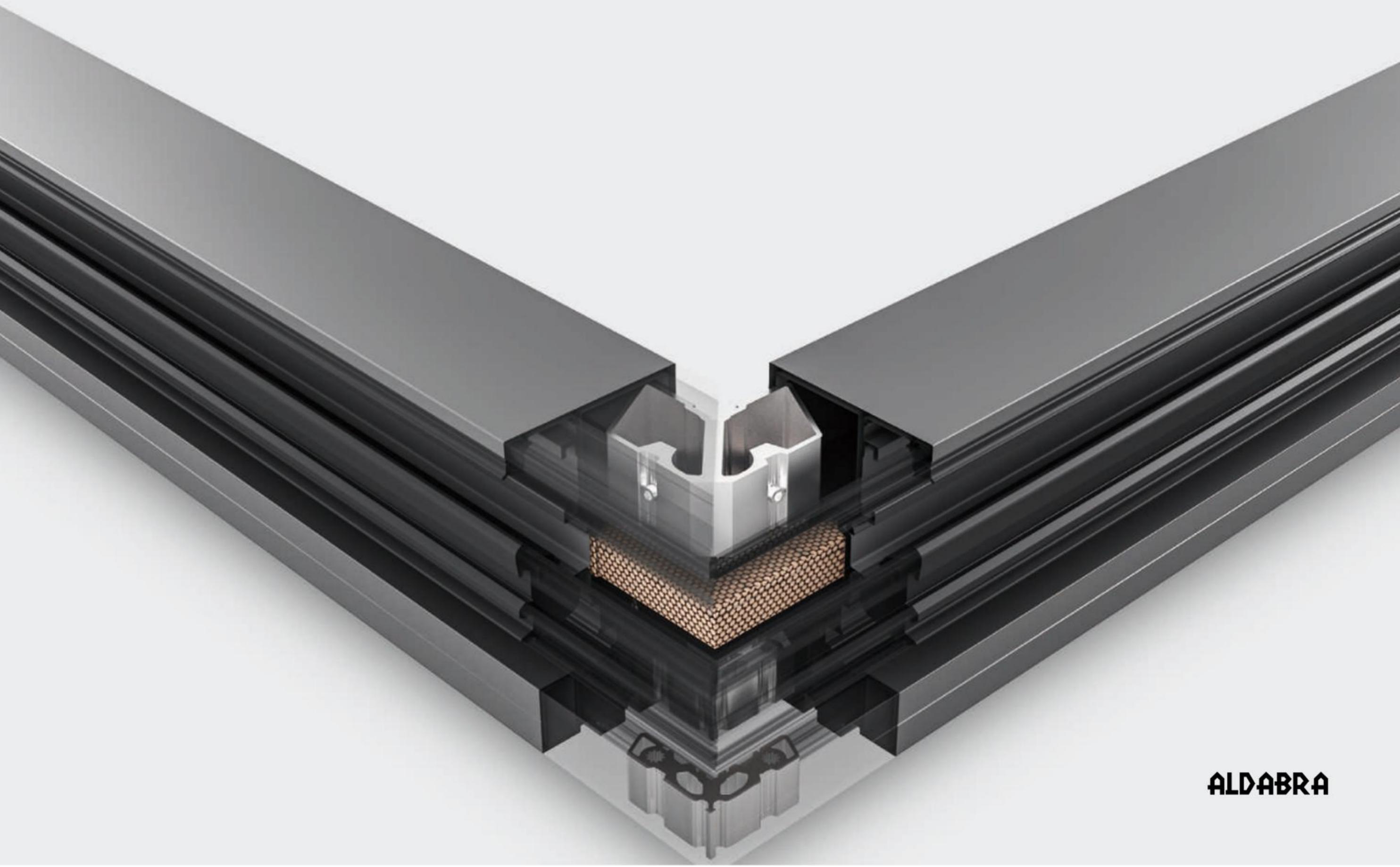
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## THE PROFILE



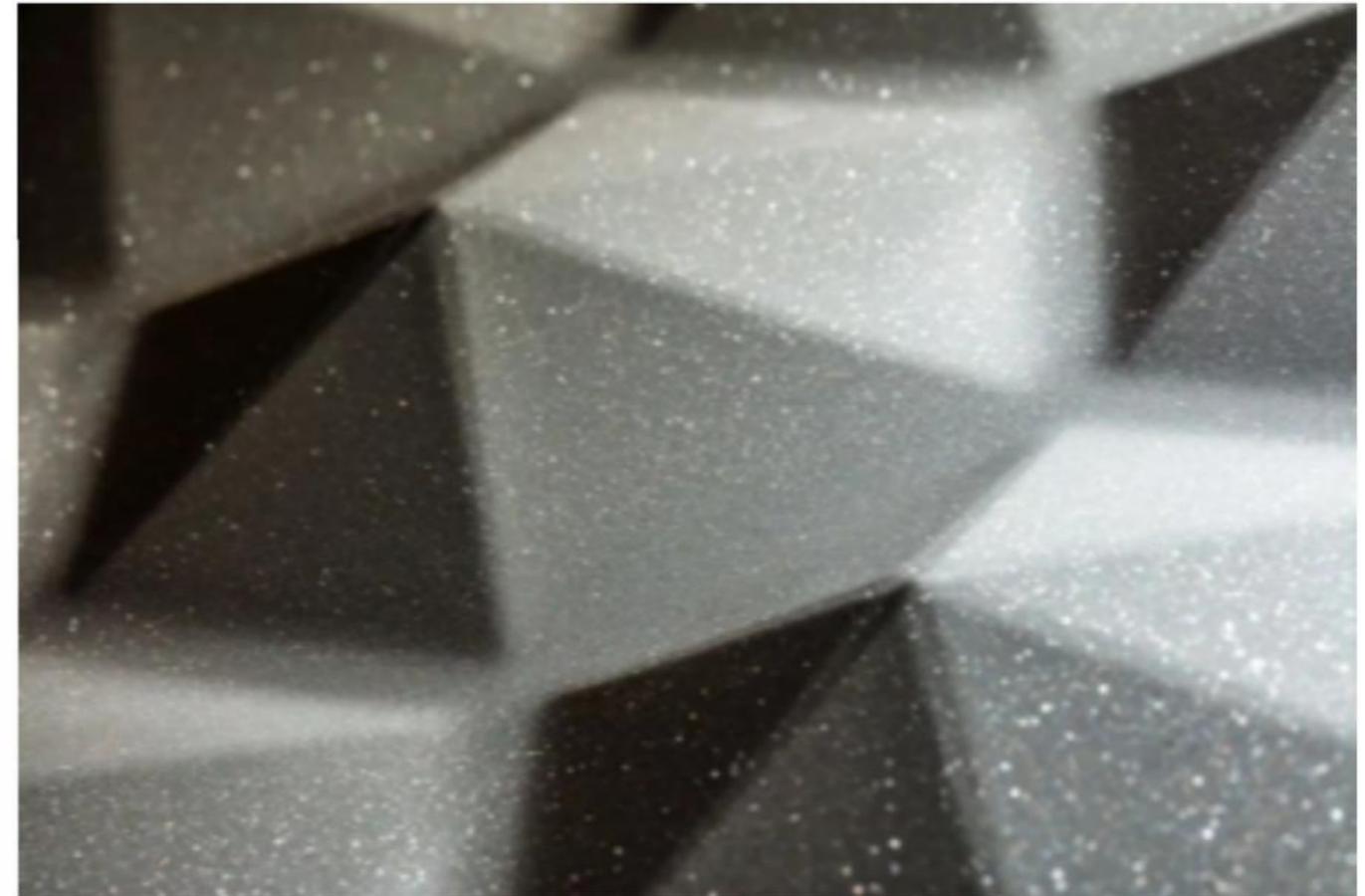
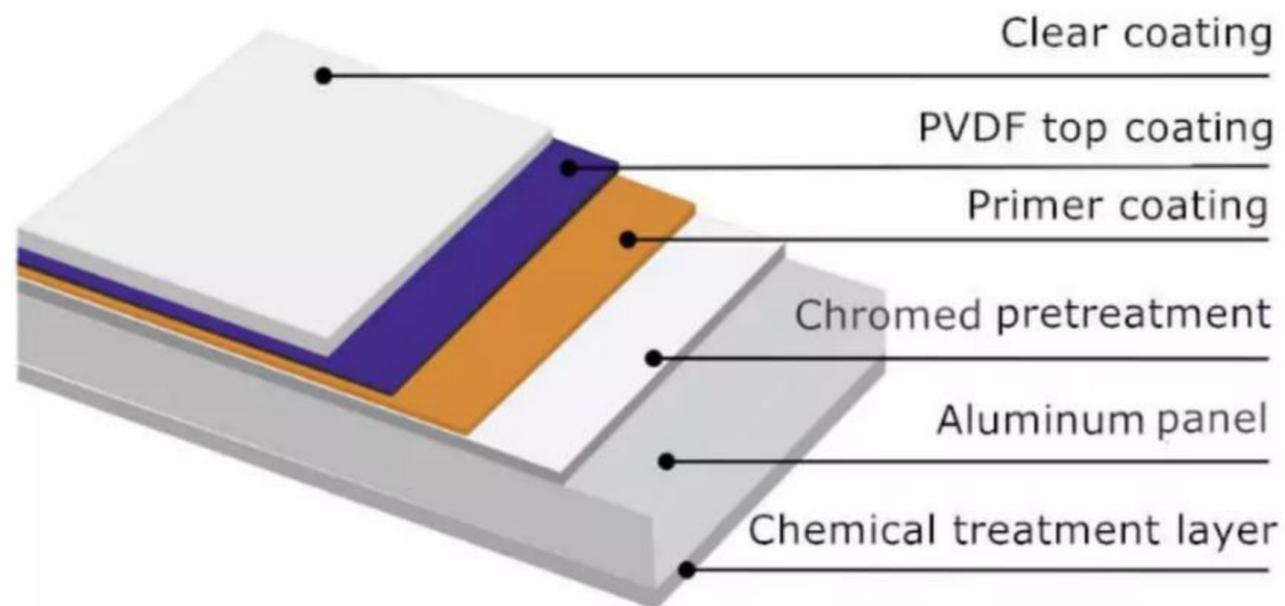
### **≥2.0mm ALUMINUM THERMAL BREAK PROFILE**

Our multi-cavity thermal break aluminum profile (≥2.0mm) is a cornerstone of Aldabra's superior performance. This advanced design significantly reduces heat transfer, improving energy efficiency and preventing thermal bridging. Strategic reinforcements enhance structural integrity and durability while maintaining optimal thermal performance.



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# PVDF COATING



PVDF (Fluorocarbon liquid coating) is a specialised multi-layer coating that offers superior durability and resistance. This powder coating protects our products from extreme weather and is an excellent choice for coastal regions.

## **Key benefits:**

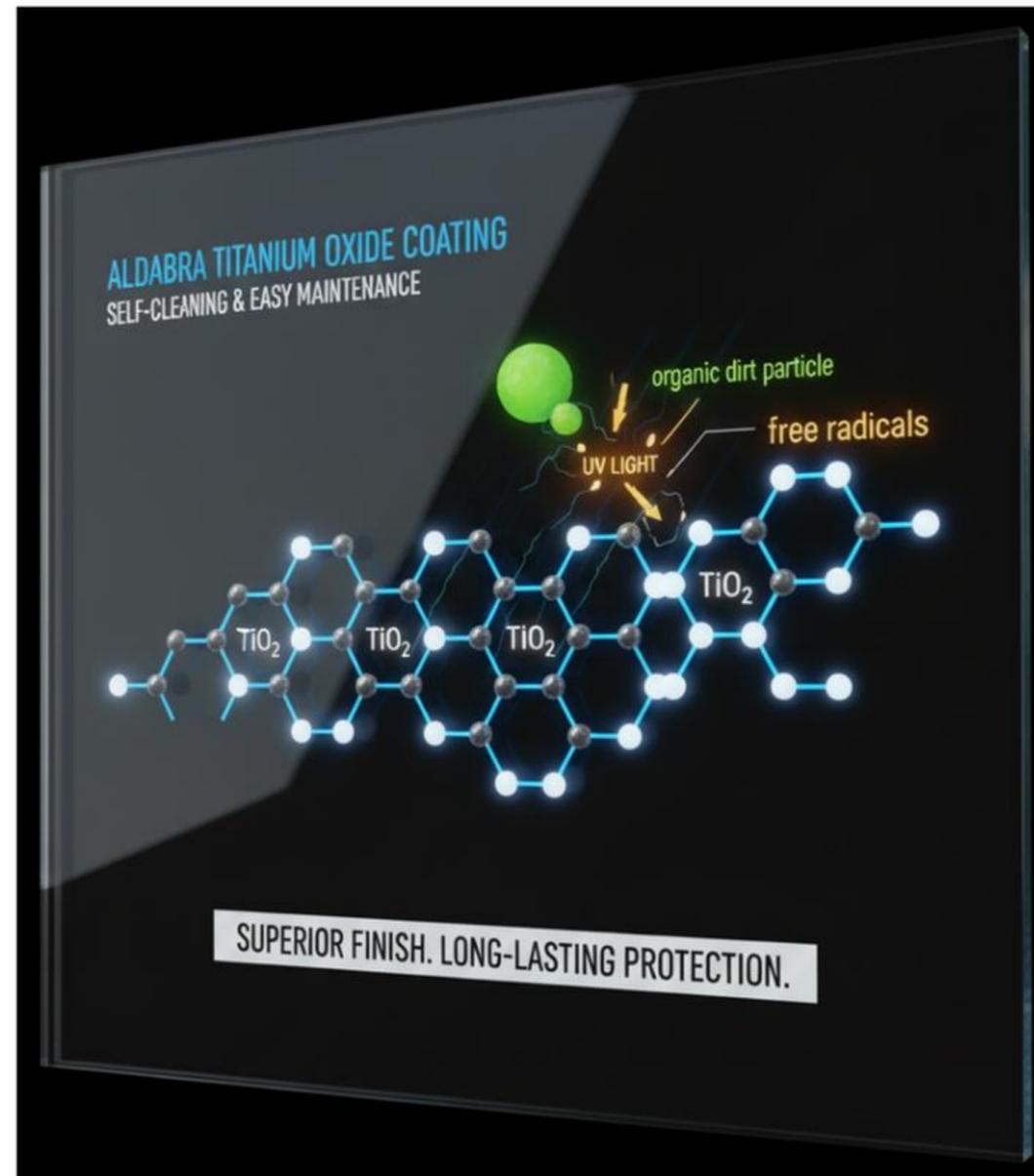
- Chemical Resistance: Highly resistant to a wide range of acids and solvents.
- Thermal Stability: It can withstand high temperatures, typically up to 150°C (302°F).
- UV Resistance: PVDF offers excellent protection against ultraviolet radiation.
- Mechanical Strength: It exhibits high tensile strength and impact resistance.
- Minimal maintenance with resistance to fading and cracking.



Aldabra's IGU selections focus on optimizing thermal efficiency, sound insulation, and safety while maintaining excellent clarity and light transmission. Each pane serves a specific purpose in the overall system, from UV protection to security enhancement. The multi-layered construction creates a robust barrier against environmental factors while contributing to the window's overall performance rating.

## **What is Argon Gas?**

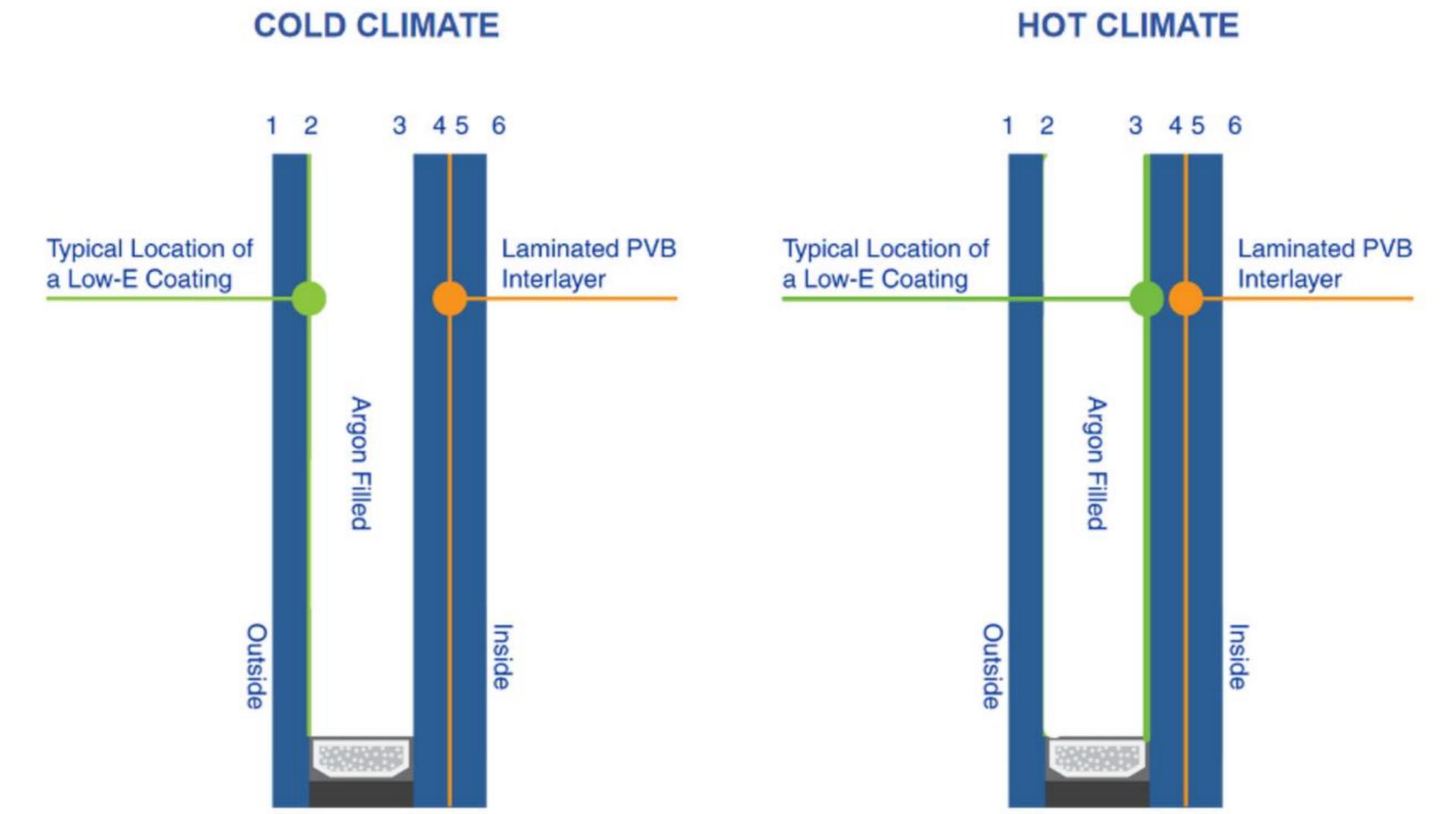
An invisible, inert gas that fills the space between window glass panes. This noble gas creates an excellent thermal barrier between panes of glass. It prevents frost buildup during cold weather, reduces heat transfer, and makes windows significantly more energy efficient.



### **Titanium Oxide Surface Coating**

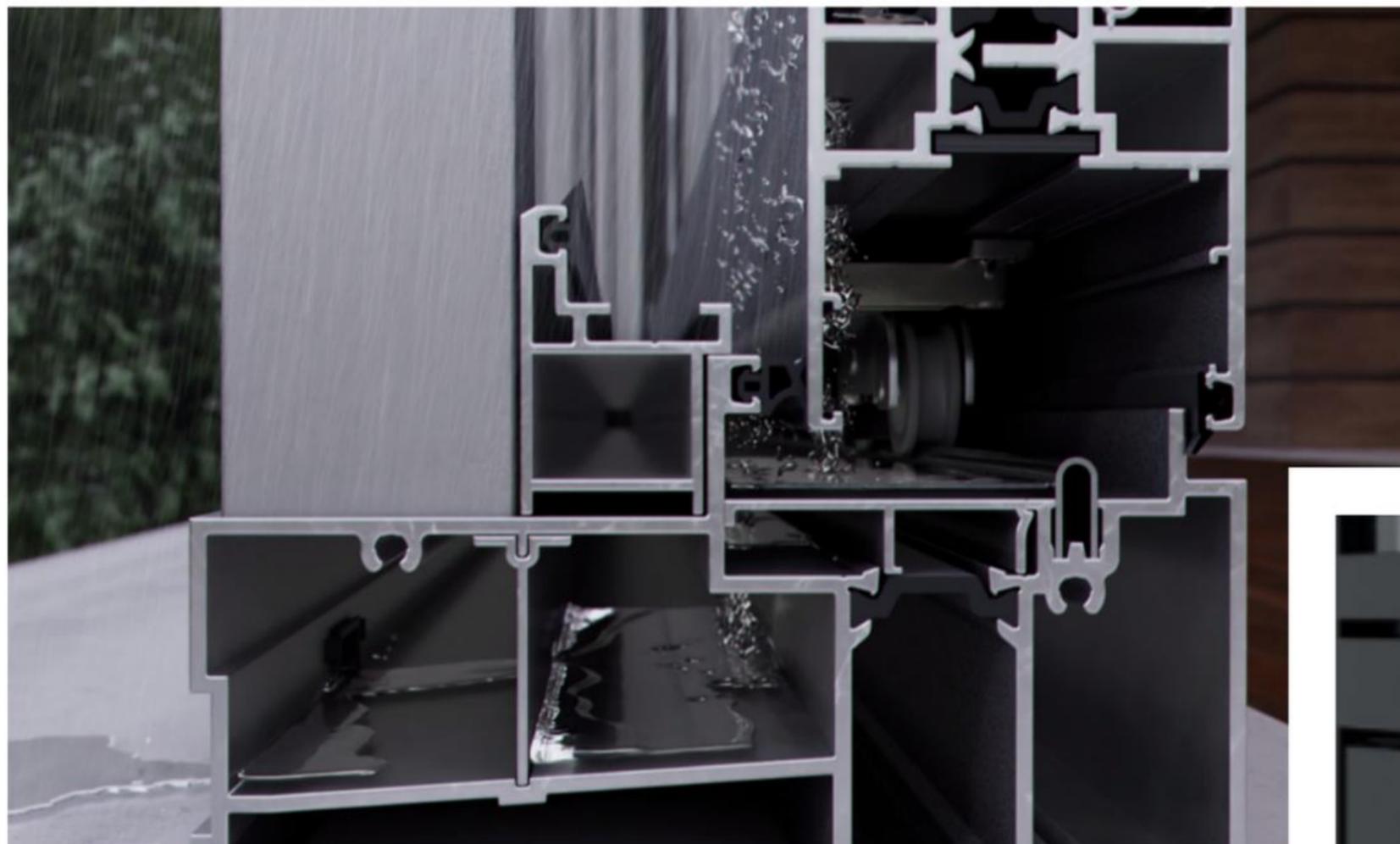
Aldabra's glass is treated with an advanced titanium dioxide (TiO<sub>2</sub>) coating that uses photocatalytic and hydrophilic properties to break down dirt and allow rainwater to wash it away evenly. This creates a self-cleaning, low-maintenance surface that stays clearer for longer while enhancing the durability and appearance of modern architectural glazing.

# LOW E COATING



In Aldabra's glazing systems, the Low-E (low emissivity) coating is applied to the inner surface of the glass chamber, where it's protected from damage and delivers maximum performance. This advanced layer reflects heat back indoors in winter and reduces solar gain in summer, ensuring year-round comfort and efficiency. By blocking harmful UV rays, it also safeguards floors, furniture, and fabrics from fading—making it a durable, energy-efficient solution tailored to South Africa's diverse climates.

## VERTICAL DRAINAGE



All Aldabra profiles feature a built-in concealed vertical drainage system—an innovative advancement in window and door design. Hidden within the frame, this system efficiently channels water away without disrupting the clean aesthetic. Engineered pathways ensure effective drainage even during heavy rain, protecting the structure from water buildup and potential damage.

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## SECURITY SCREEN & BURGLAR BAR



Aldabra's stainless steel (SU316) security screen's key benefits:

- Enhanced Security: Multi-point locking system ensures protection even with windows open.
- Pest Control: Blocks flies, mosquitoes.
- Pet Friendly: Great for keeping pets inside the house.
- Exceptional Durability: SU316 stainless steel resists rust and corrosion, even in coastal climates.
- Easy Maintenance: Designed for simple removal, cleaning, and long-term upkeep.



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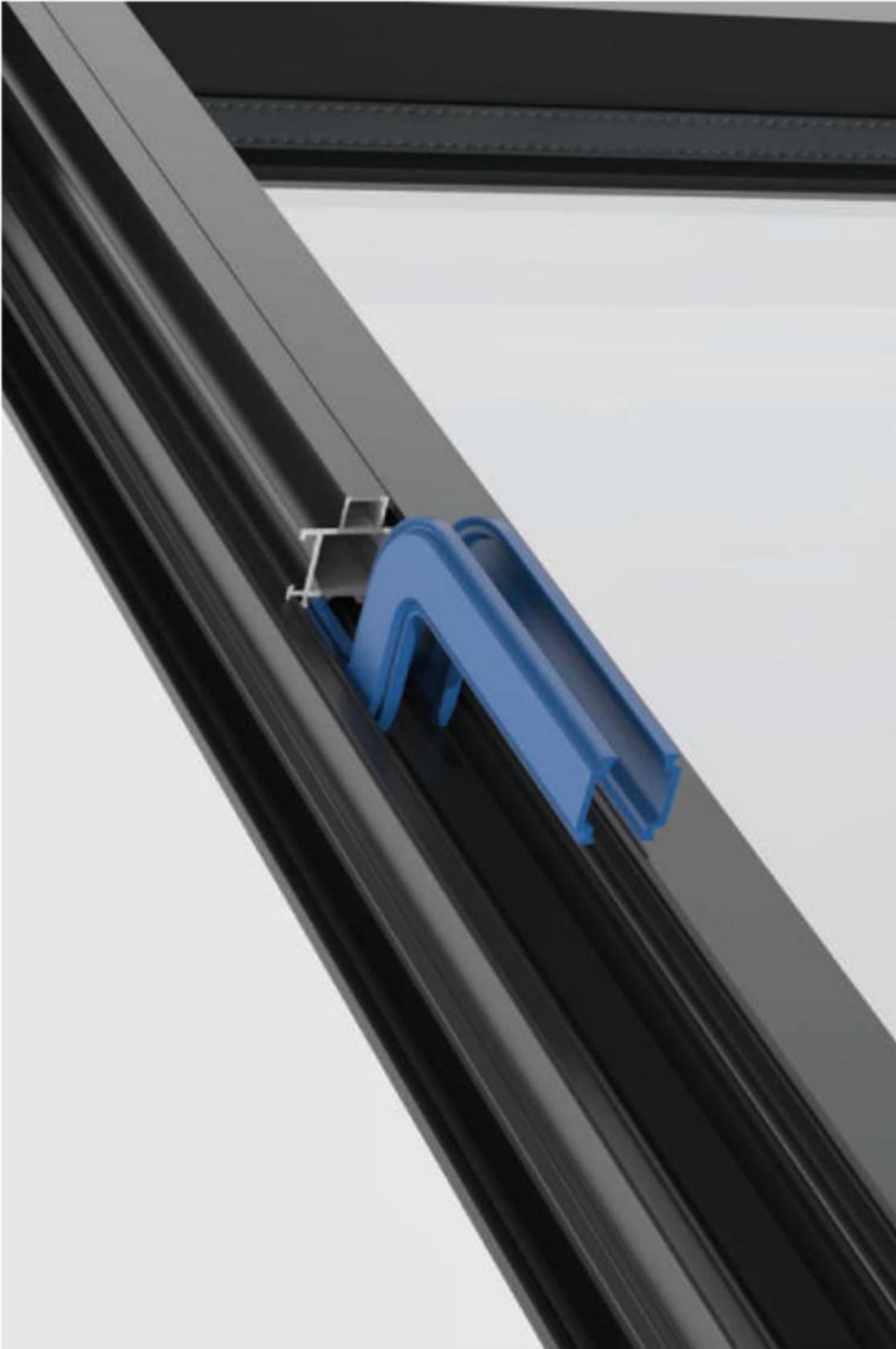
## THE HARDWARE

Fitted with premium European hardware, Aldabra systems offer precise calibration and intruder-proof multi-point locking for maximum protection. Reinforced frames meet stringent safety standards, with tamper-resistant mechanisms and hardened steel components ensuring exceptional durability and security at key points.



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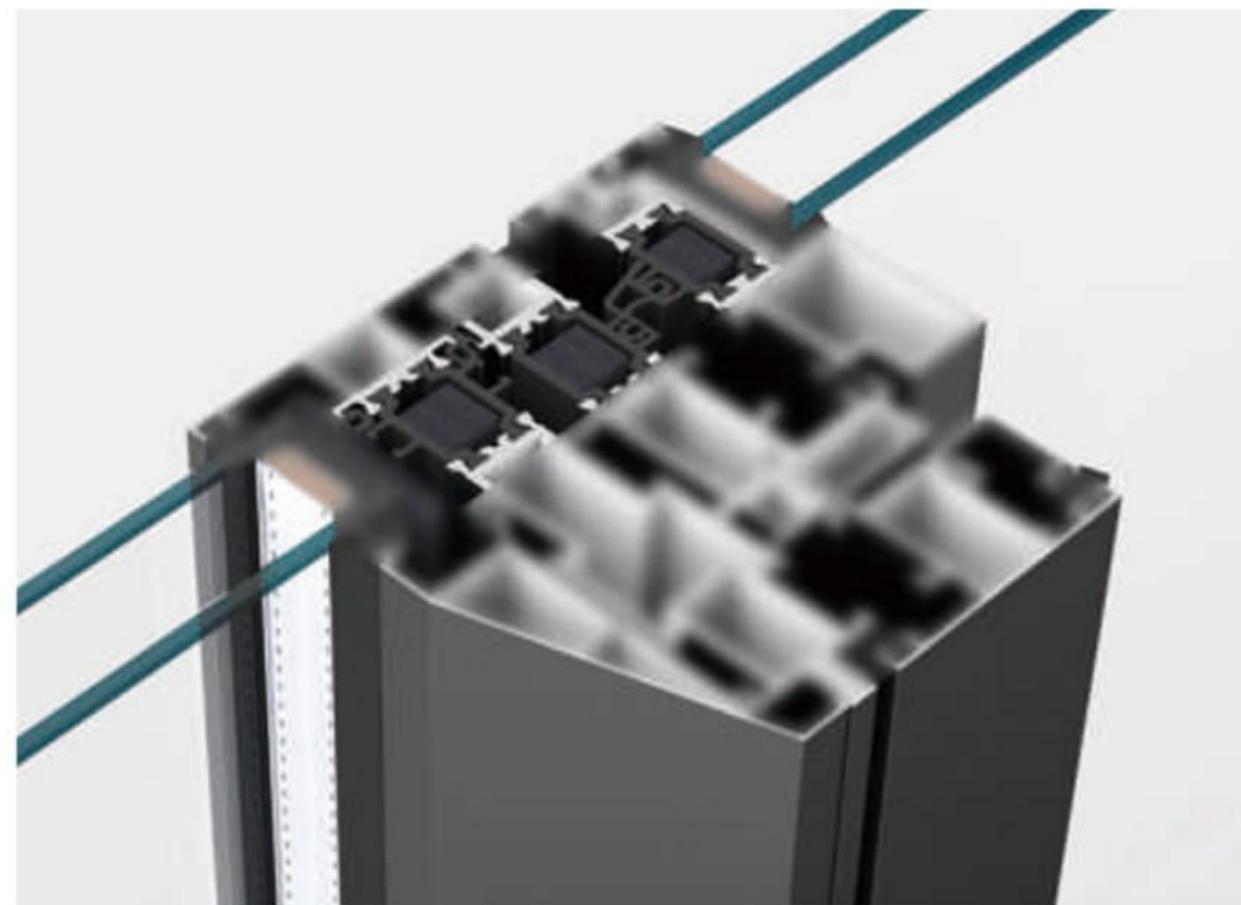
## EPDM SEALANT



EPDM Rubber Seal is a material that excels in weather resistance, protecting against UV rays, ozone, and temperature changes. It provides excellent sealing, insulation, noise reduction, durability, and moisture control.

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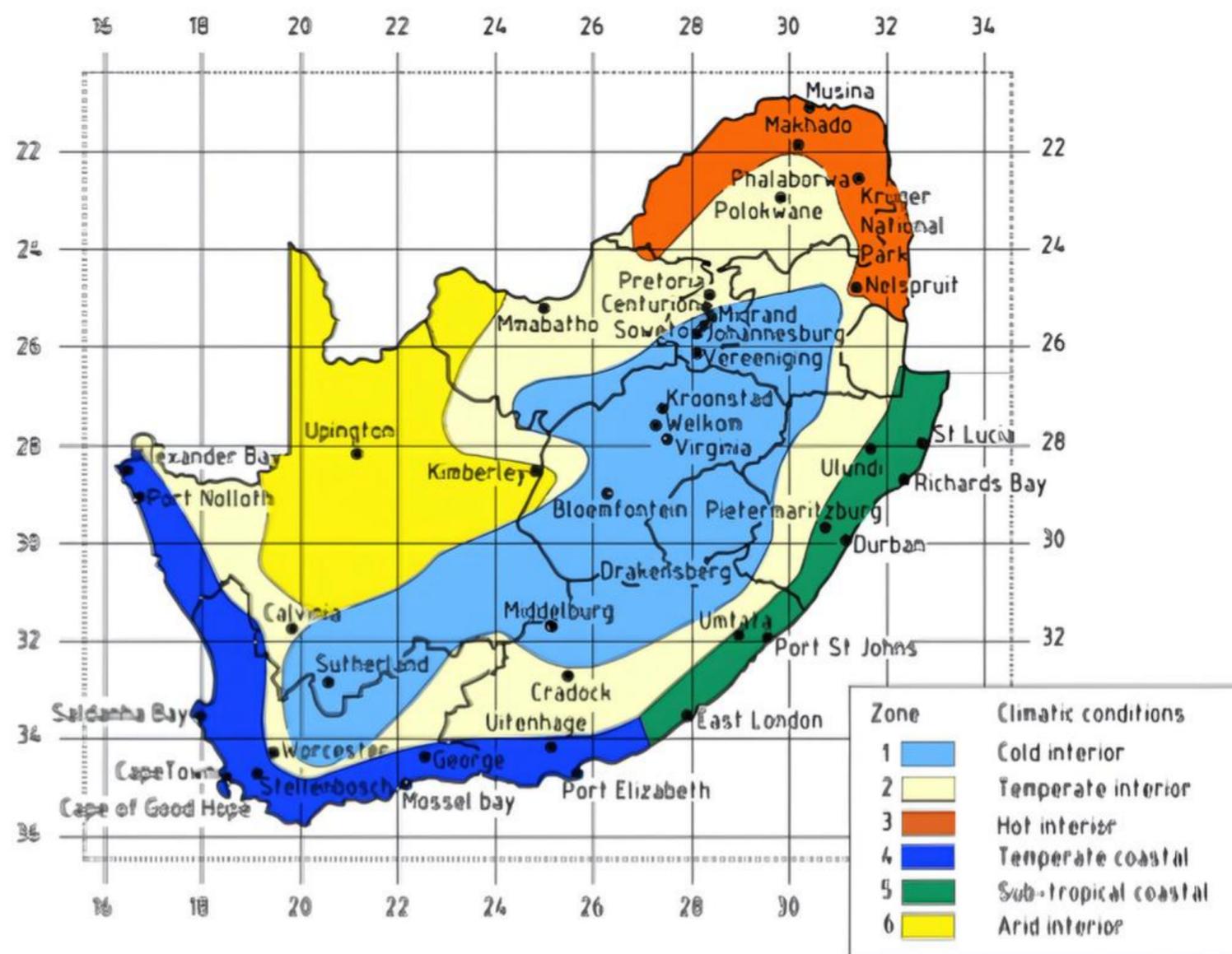
## PA66FG25



Polyamide 66 (PA66) & 25% glass fiber (GF) is a high-performance material used in our systems to provide excellent insulation between metal structures. This durable composite material is also found in automotive components like power steering pump reservoirs where strength and longevity are essential.

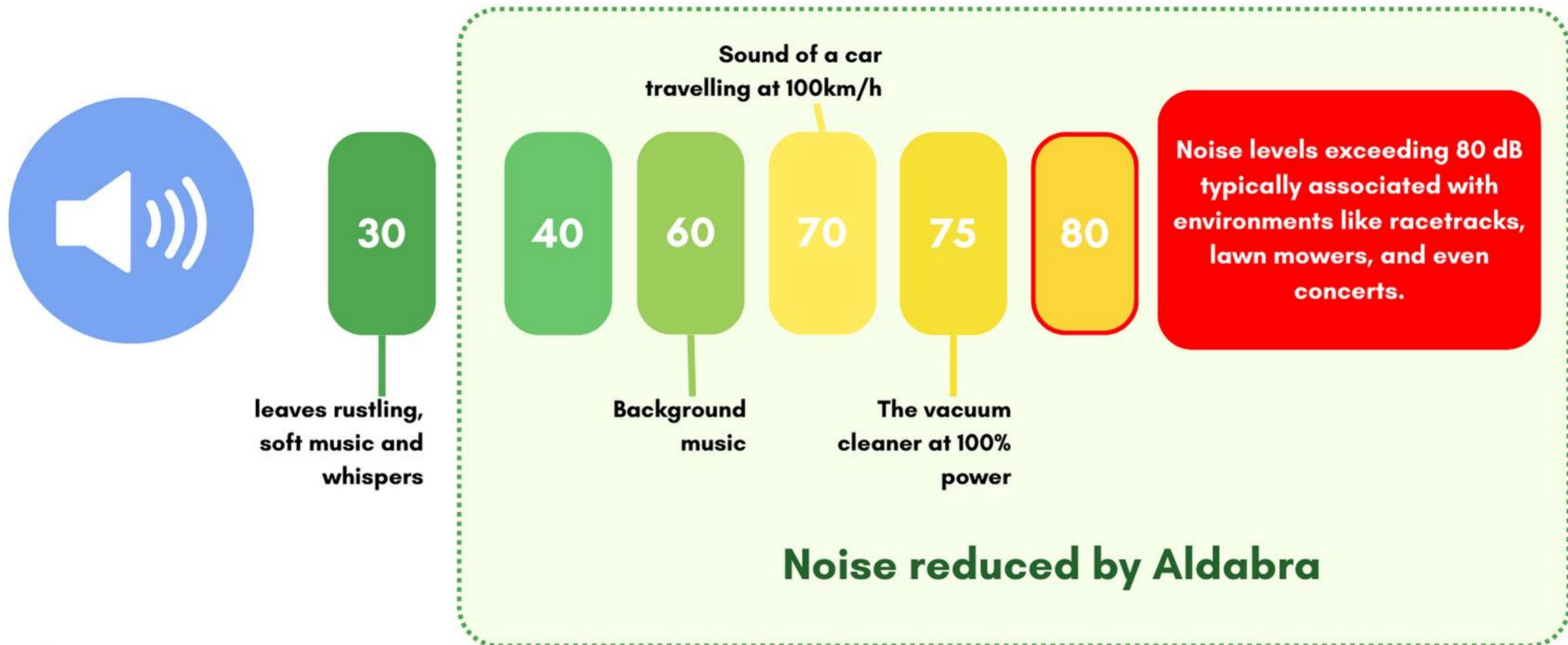
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## R-VALUE



The R-value is the standard measure of insulation performance, indicating a material's resistance to heat flow. A higher R-value represents greater insulating effectiveness. Aldabra's system achieves an R-value of approximately 4.2 (imperial units:  $\text{ft}^2 \cdot ^\circ\text{F} \cdot \text{hr} / \text{BTU}$ ), which is equivalent to  $\approx 0.74 \text{ m}^2 \cdot \text{K} / \text{W}$  in metric terms. This performance level ensures excellent thermal insulation, contributing to improved energy efficiency and occupant comfort in all climates.

# NOISE REDUCTION



## ≥35dB Sound Insulation

Our advanced multi-layered glass and frame construction achieves a remarkable sound reduction rating of 35dB or higher, effectively blocking out urban noise, traffic, and other external disturbances. This superior acoustic performance creates peaceful indoor environments while maintaining the elegant aesthetics of our window systems.

## WIND RESISTANCE

Level	Rating indicator (Unit: kPa)
1	$1.0 \leq P < 1.5$
2	$1.5 \leq P < 2.0$
3	$2.0 \leq P < 2.5$
...	...
7	$4.0 \leq P < 4.5$
8	$4.5 \leq P < 5.0$
9	$P \geq 5.0$

Wind-load resistance measures how well closed doors and windows withstand wind pressure without damage (such as cracking, panel breakage, bonding failure) or functional problems like loose hardware or opening difficulties, Level 9 resistance means the window can withstand wind pressures above 5.0 kPa (5000 Pa)—enough to resist a category 4 hurricane.

**All Aldabra windows and doors pass the Level 9 wind resistance** testings. Our commitment to quality is demonstrated through extensive testing procedures that simulate extreme weather conditions, ensuring our products maintain their structural integrity and performance even in the harshest environments.

# AIR TIGHTNESS

Level	Rating indicator $q_l$
1	$4.0 \geq q_l > 3.5$
2	$3.5 \geq q_l > 3.0$
3	$3.0 \geq q_l > 2.5$
...	...
7	$1.0 > q_l > 0.5$
8	$q_l \leq 0.5$

Better airtightness in doors and windows reduces heat loss by minimizing thermal exchange.

Air tightness is measured by air penetration under standard conditions (10 Pa pressure difference).

The 8-level rating system indicates airtightness quality—higher levels mean better performance and energy efficiency.

**Aldabra products achieve Level 8 air tightness**, indicating exceptional performance in preventing air leakage. This superior sealing capability ensures optimal energy efficiency and indoor comfort while reducing heating and cooling costs. Our comprehensive testing procedures verify that all units maintain this high standard of performance throughout their lifetime.

## **ALDABRA'S COMMITMENT TO QUALITY AND DURABILITY**

At Aldabra, our fenestration systems are engineered with advanced thermal break technology, delivering superior energy efficiency and exceptional weather resistance. Built to exceed international fenestration standards, they maintain structural integrity and peak performance even under the most demanding conditions.

Our expert installation team and rigorous on-site inspections back this innovation. Every unit is precisely fitted to design specifications, ensuring optimal performance and long-term durability. From consultation to final inspection and sign off, our meticulous approach gives clients complete confidence in the quality, security, and longevity of Aldabra's systems.

To reinforce this commitment, all Aldabra hardware is covered by a 2-year warranty, and performance is protected well beyond installation. We stand behind the enduring quality of our products, providing you with lasting peace of mind.

# OUR ESTEEMED PARTNERS

Aldabra is proud to collaborate with leading European and Chinese manufacturers, ensuring that we maintain the highest quality standards across all our products. Each partner is carefully selected for their expertise, innovation, and commitment to excellence in their respective specialties.

These strategic partnerships allow us to leverage cutting-edge technology and manufacturing processes, enabling us to deliver premium security screen solutions that meet the most demanding requirements in modern architecture. Our collective aim is to provide unparalleled quality and performance to our valued clients.



**SIEGENIA**<sup>®</sup>  
brings spaces to life

**TECHNOFORM**

**Sobinco**  
OPENS YOUR LIFE

**HOPPE**<sup>®</sup>   
Handle of excellence.

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