

| UltraSlim |  
Less is more

ULTRASLIM | Less is more





# The Foundation of Every Home

The ESSENCE collection blends essential functionality with sophisticated engineering for every residence. From panoramic windows to seamless folding doors and secure glass railings, this versatile series offers high-performance insulation and customizable finishes, providing a unified architectural language that brings comfort and elegance to your entire home.

# TECHNICAL DATA



SPECIFICATION

BASIC DATA

Section: 71mm for Frame
Maximum Size: 1200*2800
Thermal Break Bar: 32mm
TMaximum Weight: 350kg
Size of Glass Groove: 45mm

PEFORMANCE

Thermal Insulation: < Uw 1.6
Waterproof Performance: E1500
Wind Load Resistance: Class C4
Air Tightness: Class 4

FRAME & STRUCTURE

Thermally broken alloy profile, 6060-T66 grade.

THERMAL & SEALING

Automotive-grade rubber and high-quality thermal break strips.

LOAD-BEARING CAPACITY

Aluminum frame can bear a single panel weight of up to 350 kg.

HARDWARE & GLAZING

Premium Italian Hardware and ultra-clear low-e glazing system.

GLAZING SAFETY & SOUND

Insulating soundproof glass, international 3C certification approved.

CUSTOMIZATION

Offering full color customization and expertise in bespoke shapes.

CERTIFICATE

Certified to North American and Australian standards.

SAMPLE



SPECIFICATION

BASIC DATA

Section: 75mm for Frame
Maximum Size: 1200*2800
Thermal Break Bar: 35mm
Maximum Weight: 350kg
Size of Glass Groove: 50mm
Visible Section: 41mm

PEFORMANCE

Thermal Insulation: < Uw 1.4
Waterproof Performance: E1500
Wind Load Resistance: Class C4
Air Tightness: Class 4

FRAME & STRUCTURE

Thermally broken alloy profile, 6060-T66 grade.

THERMAL & SEALING

Automotive-grade rubber and high-quality thermal break strips.

PANORAMIC VIEW

A sash profile width of just 37.5mm, ensuring an ultimate, panoramic view

HARDWARE & GLAZING

Premium Italian Hardware and ultra-clear low-e glazing system.

GLAZING SAFETY & SOUND

Insulating soundproof glass, international 3C certification approved.

CUSTOMIZATION

Offering full color customization and expertise in bespoke shapes.

CERTIFICATE

Certified to North American and Australian standards.

SAMPLE



SPECIFICATION

BASIC DATA

Section: 95m for Frame
Maximum Size: 1000*4000
Thermal Break Bar: 35mm
Maximum Weight: 300kg
Size of Glass Groove: 48mm

PEFORMANCE

Thermal Insulation: < Uw 1.9
Waterproof Performance: E1500
Wind Load Resistance: Class C4
Air Tightness: Class 4

FRAME & STRUCTURE

Thermally broken alloy profile, 6060-T66 grade.

THERMAL & SEALING

Automotive-grade rubber and high-quality thermal break strips.

LOAD-BEARING CAPACITY

Aluminum frame can bear a single panel weight of up to 300 kg.

HARDWARE & GLAZING

Premium Italian Hardware and ultra-clear low-e glazing system.

GLAZING SAFETY & SOUND

International 3C certification approved Glass, Anti-pinch system

CUSTOMIZATION

Offering full color customization and expertise in bespoke shapes.

SAFETY

Anti-pinch system applied, designed with your safety in mind.

SAMPLE



SPECIFICATION

BASIC DATA

Section: 70 mm for Frame
Thermal Break Bar: 32mm
Size of Glass Groove: 48mm

PEFORMANCE

Thermal Insulation: < Uw 1.9
Waterproof Performance: E1500
Wind Load Resistance: Class C4
Air Tightness: Class 4

FRAME & STRUCTURE

Thermally broken alloy profile, 6060-T66 grade.

THERMAL & SEALING

Automotive-grade rubber and high-quality thermal break strips.

OPTIMIZED VENTILATION

Provide consistent airflow while maximizing your panoramic view.

HARDWARE & GLAZING

Premium Italian Hardware and ultra-clear low-e glazing system.

GLAZING SAFETY & SOUND

International 3C certification approved Glass, Anti-pinch system

CUSTOMIZATION

Offering full color customization and expertise in bespoke shapes.

BESPOKE SURFACE FINISHES

Offers personalized surface treatments and full range of colors.

SAMPLE



SPECIFICATION

BASIC DATA

Glass Specification: 10 + 2.28pvb + 10 Ultra-Clear

Recommend Height: 1200mm

Glass Glazing Depth: 150mm

FRAME & STRUCTURE

6060-T66 grade aluminum profile.

INSTALLATION

Supports versatile installation methods.

GLAZING SAFETY & SOUND

Insulating soundproof glass, international 3C certification approved.

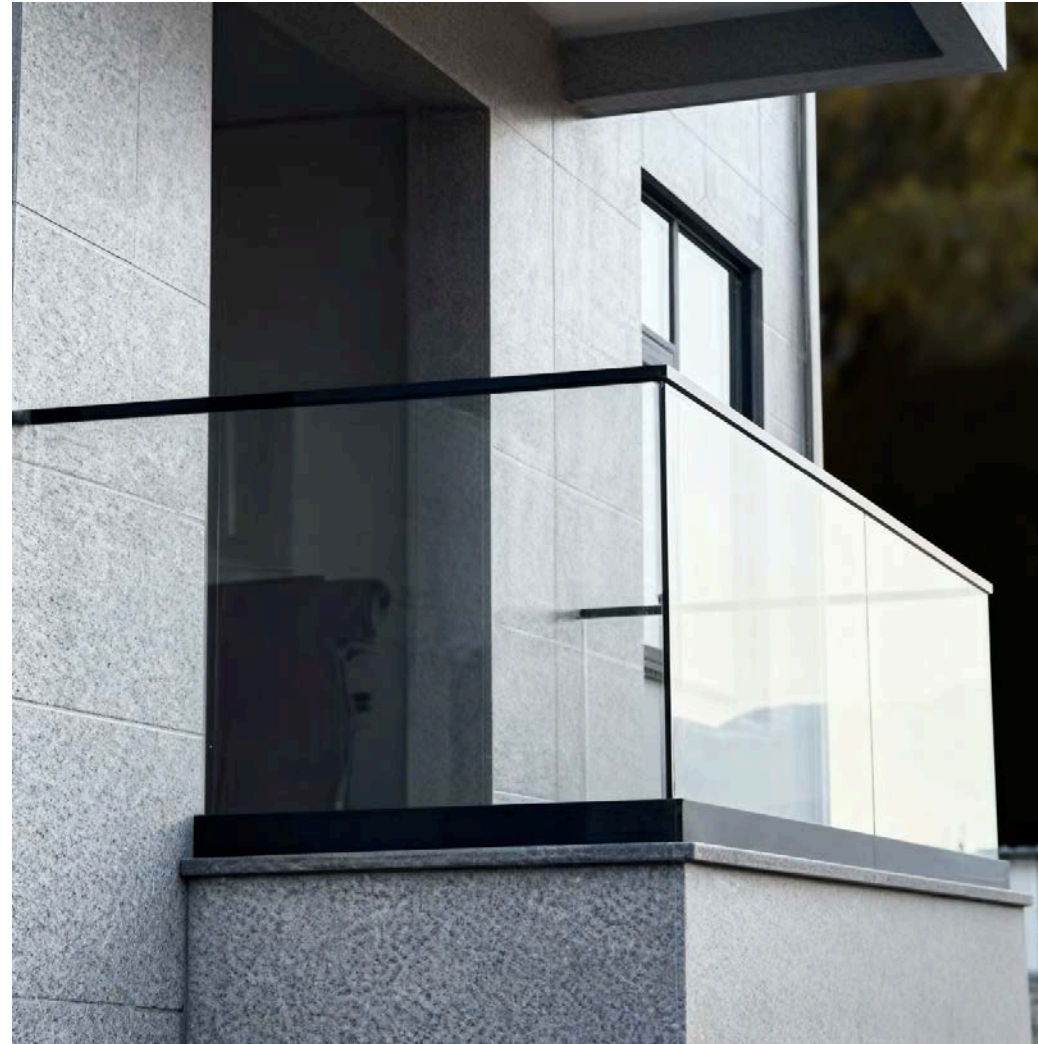
CUSTOMIZATION

Customizable glass and lamination configurations.

CERTIFICATE

Certified to North American and Australian standards.

SAMPLE

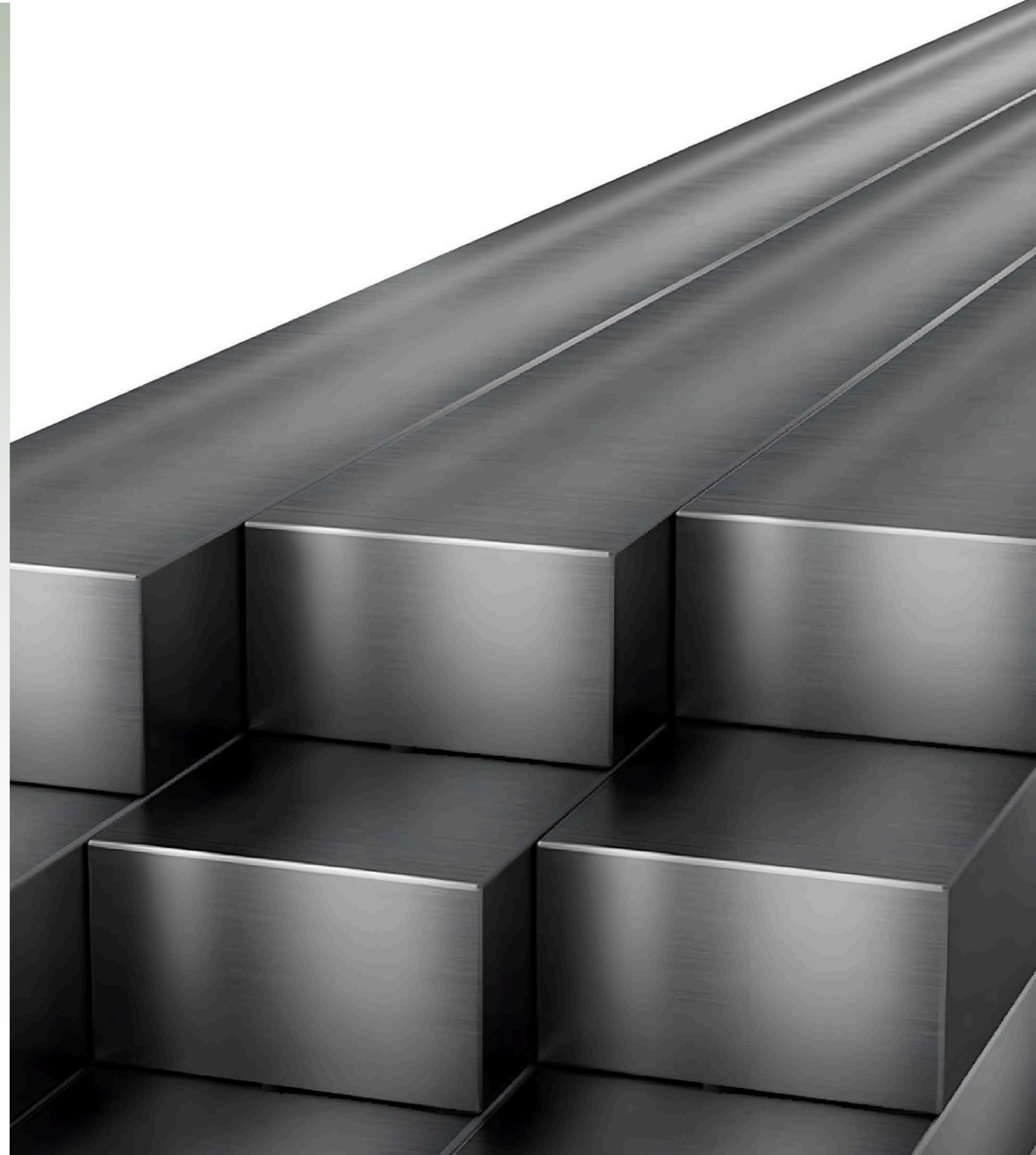


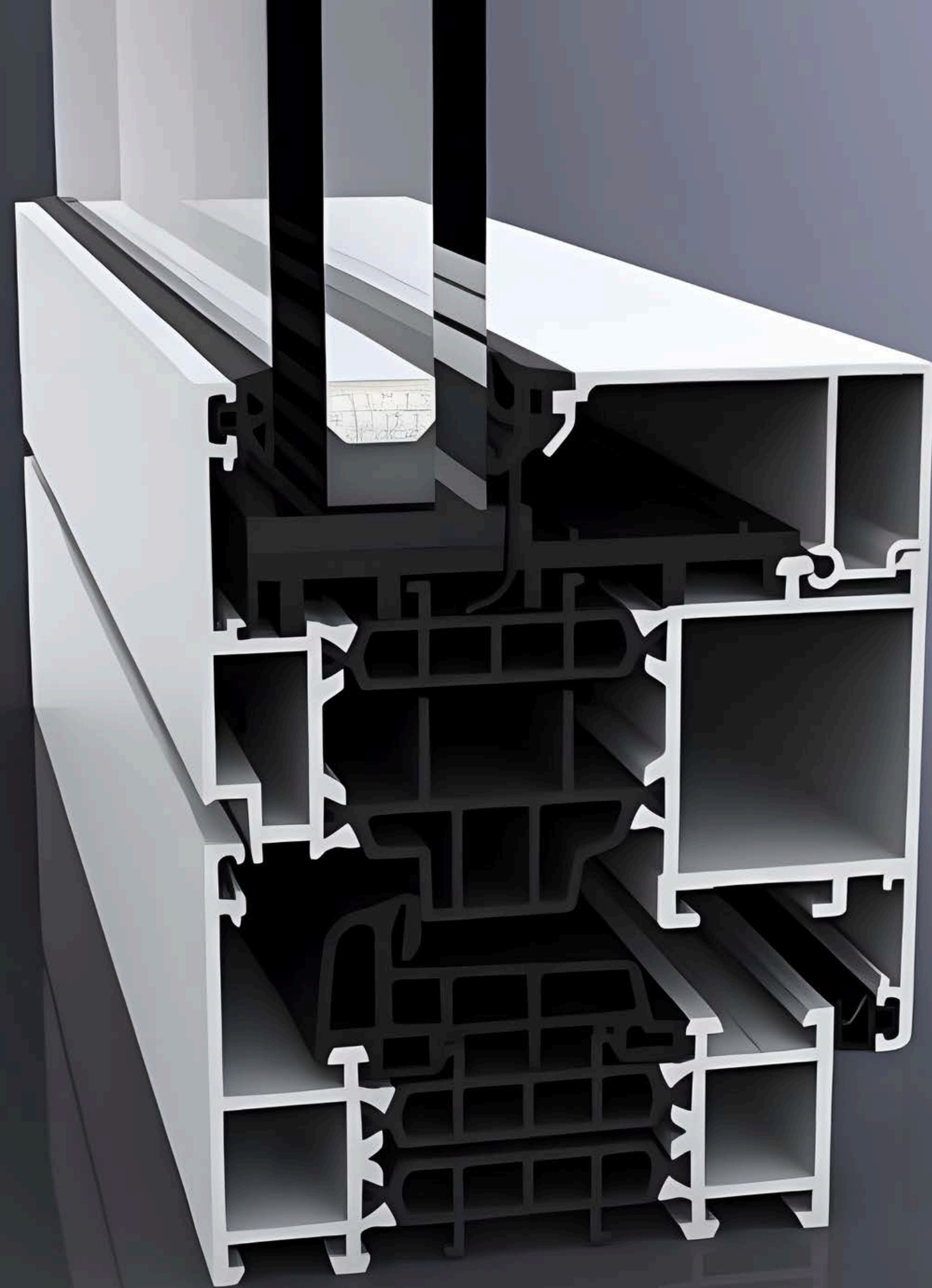
# FRAME & STRUCTURE

## 6060-T66 Profile

Engineered for extreme durability, our system uses 6060-T66 aviation-grade aluminum profiles. This top-tier strength ensures hurricane-level stability and delivers superior sound and thermal insulation performance.

Engineered for the most challenging environments, this aluminum material delivers uncompromised strength with a yield limit of 160 MPa and a 215 MPa tensile rating. Achieving a strength increase of over 25% compared to standard T6 materials, it ensures stronger wind pressure resistance and significantly longer service life. This makes it the definitive choice for applications in typhoon-prone and other extreme climate areas.





## THERMAL BREAK SYSTEM

Experience the pinnacle of energy efficiency with UltraSlim's genuine German-imported thermal break system.

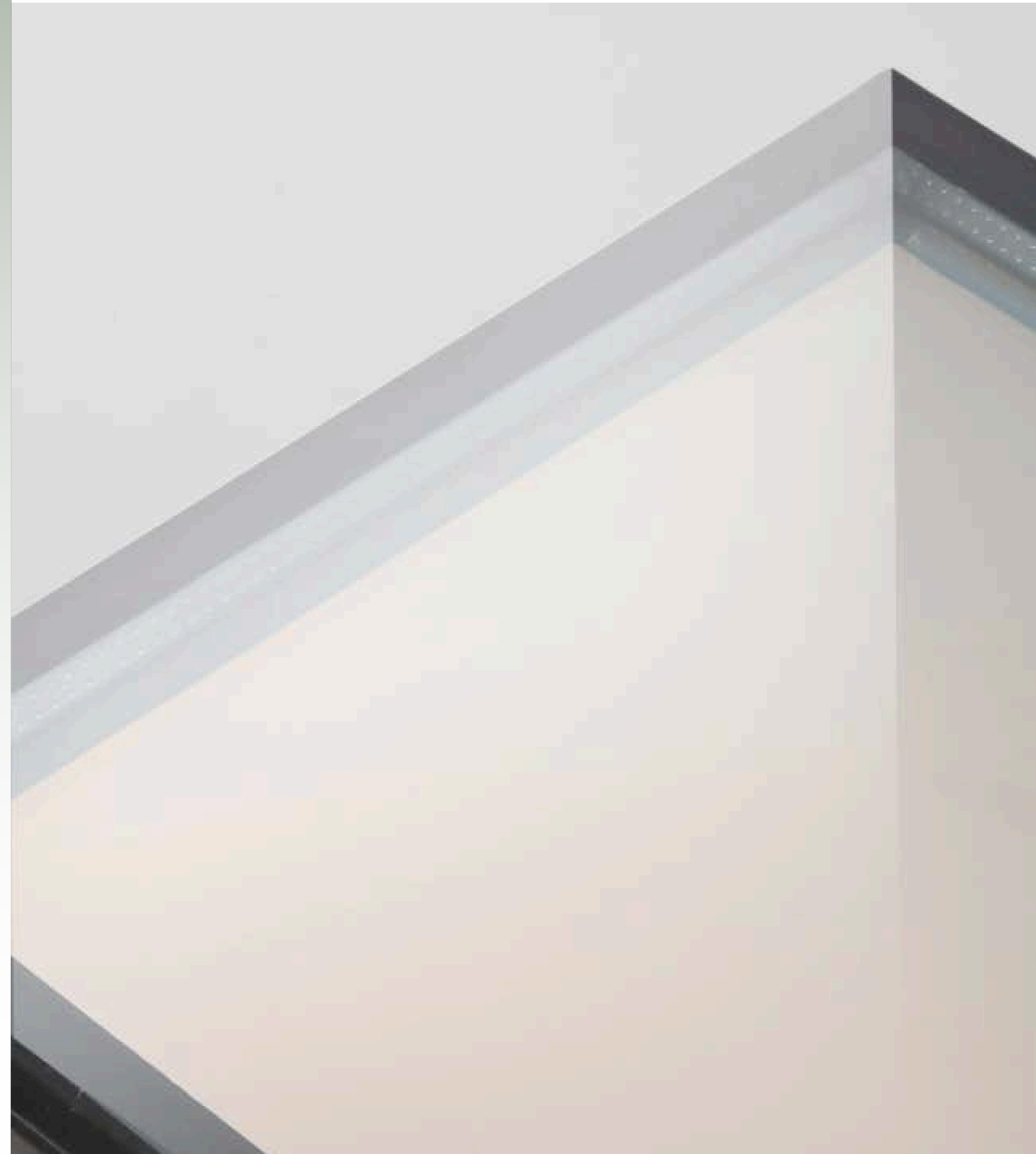
Engineered from a robust PA66 + 25% Glass Fiber (GF) composite, our thermal barrier acts as a sophisticated Cold Bridge (Thermal Break), masterfully isolating the interior climate. This technology is crucial for insulation—maintaining stable indoor temperatures regardless of external extremes—while simultaneously providing superior moisture resistance.

The core of our technology is the Nylon Thermal Break Structure: a world-patented system featuring an aluminum alloy reinforced nylon cold bridge. We recognize that the width and precise shape of this thermal break are the critical factors that determine and maximize the overall insulation effectiveness of the UltraSlim window system.

# GLAZING SYSTEM

Superior Flatness Guarantee: We employ state-of-the-art technology to ensure the exceptional flatness of our tempered glass.

- Dual-Chamber Forced Convection: Utilizing a specialized pre-heating furnace system to significantly elevate glass quality.
- Hybrid Heating Technology: By combining convection and radiation heating simultaneously, we guarantee consistent and uniform heat distribution.
- Low-Temperature Tempering: This process maximizes structural strength while preserving the pristine optical quality of the glass.





# HARDWARE

UltraSlim systems are built on Genuine Imported Hardware, guaranteeing unmatched reliability and load capacity.

Our hardware is engineered for extreme performance:

- Window systems offer ultra-high load capacity up to 170 KG.
- Swing Doors are designed to effortlessly handle sashes weighing up to 300 KG.

This durability is proven through rigorous testing: window hardware sustains 100,000 cycles of strict opening and closing tests, while door systems exceed 200,000 cycles.

For a truly clean and minimalist aesthetic, our hardware can be fitted with concealed hinges, creating an extremely sleek and uncluttered appearance.

# GASKETS

At UltraSlim, we believe that a window is only as powerful as its seal. Our proprietary sealing system uses advanced EPDM gaskets, engineered to create an impenetrable barrier between your sanctuary and the elements. These precision-fitted seals are the foundation of our industry-leading airtightness and thermal integrity, ensuring that comfort is felt, but the weather is never heard.





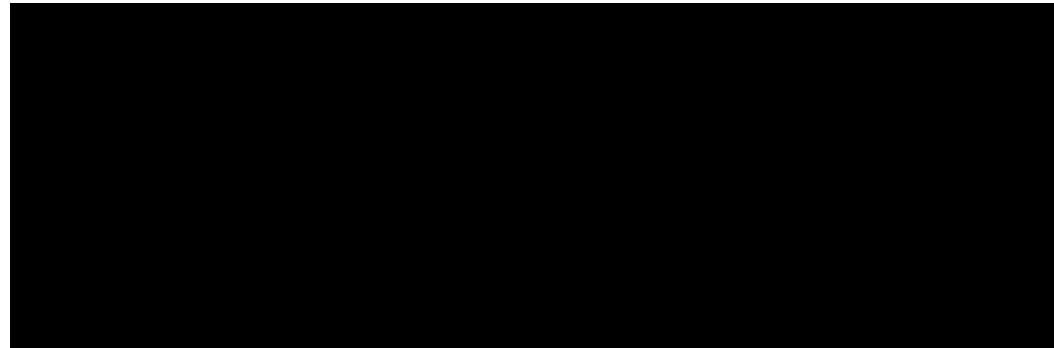
## SUPER SPACER

Super Spacer is an advanced warm-edge spacer system designed for energy-efficient windows, offering superior insulation and condensation resistance. Its silicone foam material provides maximum energy efficiency, reducing energy costs and improving overall comfort.

Additionally, Super Spacer is an eco-friendly solution, promoting green living and reducing carbon footprint.

Super Spacer is UltraSlim's newest supply chain partner and a recommended option for achieving the highest level of performance and long-lasting durability for green home design.

# Variety of profile surface treatments & unlimited spectrum of colors (RAL).



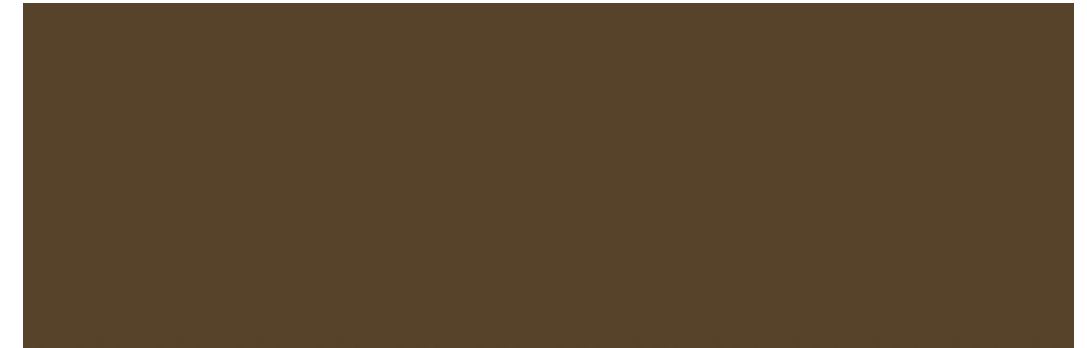
## Powder Coating

Offering the broadest design freedom, our powder coating uses an electrostatic process for a thick, resilient, and uniform finish. Available in an unlimited spectrum of colors (RAL) and custom textures (matte, glossy, or textured), it provides robust weather resistance and a protective, durable layer.



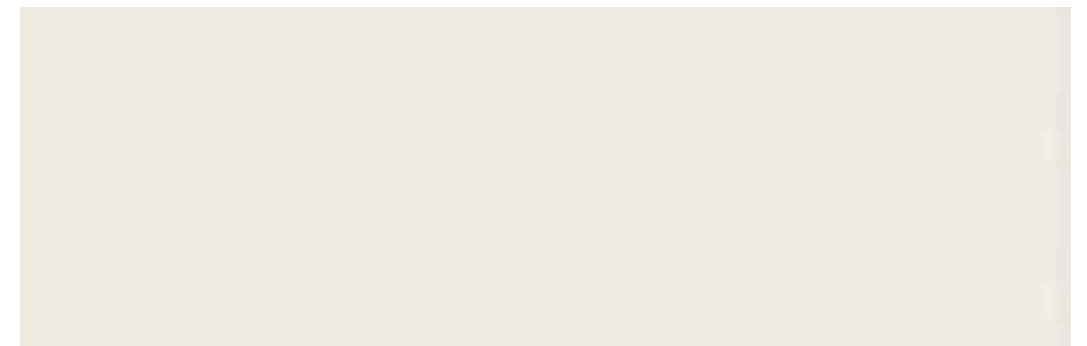
## Anodizing

This electrochemical process creates a dense, naturally-integrated oxide layer on the aluminum surface. It offers superior hardness, scratch resistance, and color fastness without chipping or peeling. Ideal for achieving a classic, lasting metallic finish that enhances structural longevity.



## Ceramic Electrophoresis

An advanced evolution of E-coating, this process incorporates ceramic components to significantly increase surface toughness. The result is an ultra-hard finish that offers excellent resistance to scratching and abrasion, combining the smooth elegance of electrocoating with enhanced structural protection.



GLOBAL  
PARTNER



**AkzoNobel**

**Sobinco**  
OPENS YOUR LIFE

**Quanex**

**Honeywell**

**TECHNOFORM**

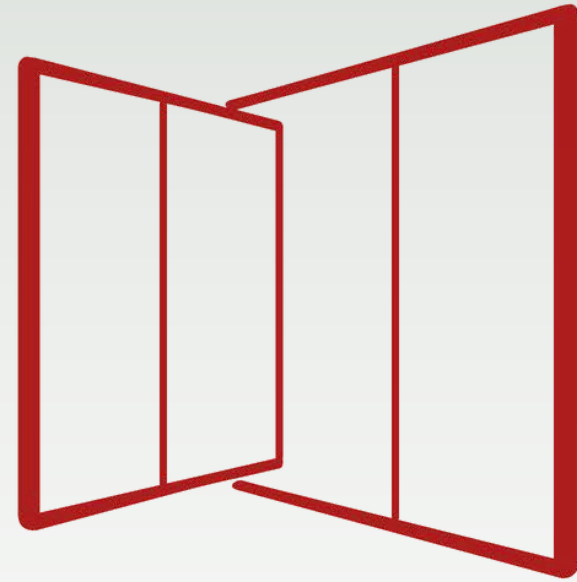


**Haida**

# Ultralim

Less is more





# UltraSlim

| Less is More, Engineered for Excellence |