ALU SKIN®

BY INSIGNIS

ALUMINIUM LOUVERS | CLADDING | PERGOLAS

WOOD AESTHETICS
ALUMINIUM STRENGTH

UV RESISTANT
& WEATHERPROOF

DURABLE
& LOW MAINTENANCE

SUSTAINABLE
& ECO-FRIENDLY

ALU SKIN® BY INSIGNIS

01 — INTRODUCING ALUSKIN

One advanced surface.

Japanese Technique × Indian Aesthetics

ALUSKIN is created by bonding an advanced fiber-based decorative skin onto a precision-prepared aluminium base through a controlled thermal vacuum process — micro-etched, chemically activated and thermally bonded under heat and vacuum pressure, conforming seamlessly without air pockets or stress points.

The result: a permanently fused surface that combines the strength of aluminium with the warmth of wood.





02 — ORIGIN & INNOVATION

Aluminium that looks and feels like wood.

The technology behind ALUSKIN originates from highly controlled surface finishing systems developed in Japan. Through advanced adhesion chemistry and controlled thermal wrapping, ALUSKIN authentically replicates the grain, depth and tonal variation of natural wood, while retaining structural resilience.

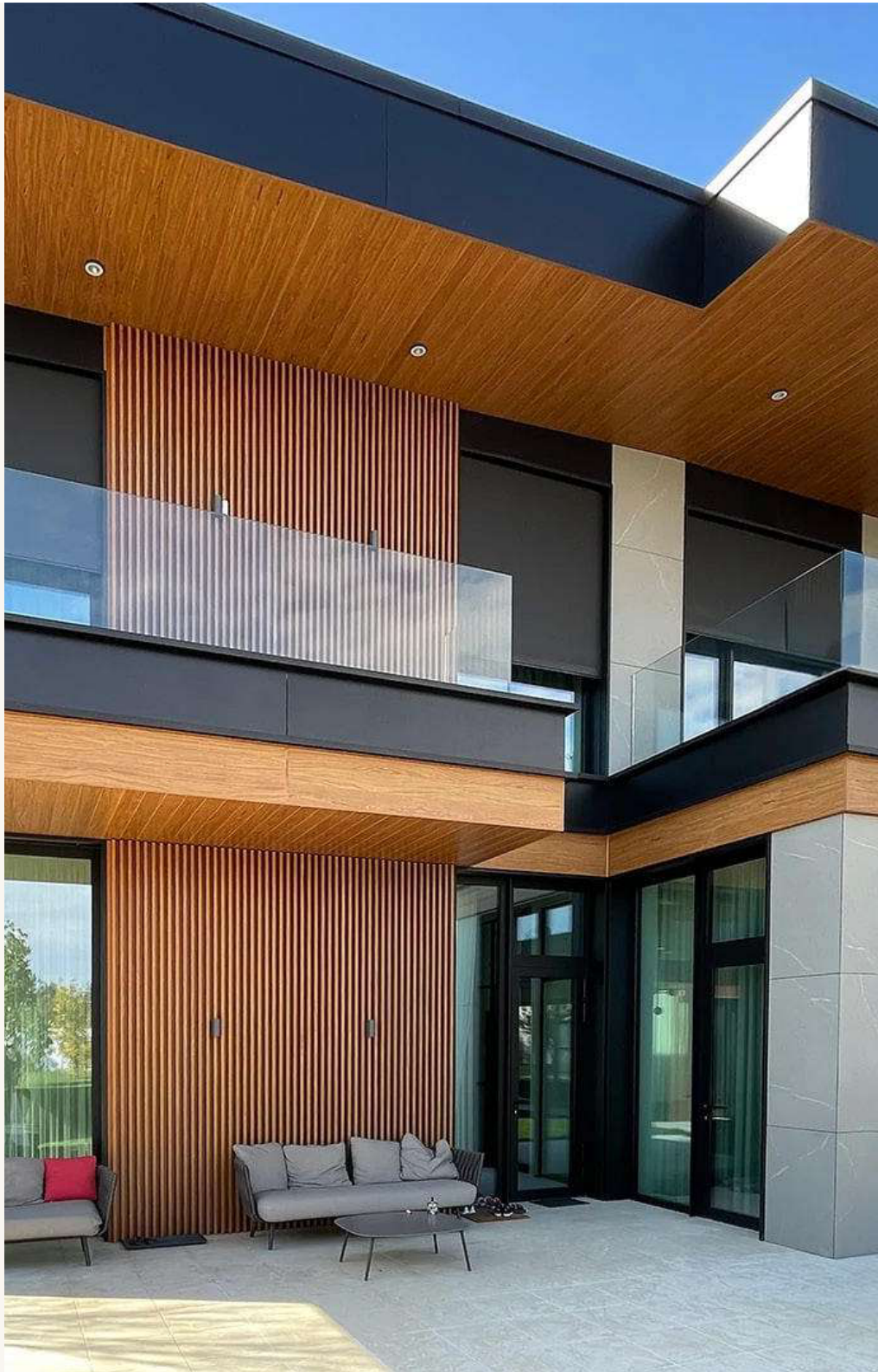
- Seamless wrapping and adhesion
- Authentic wood grain texture and depth
- Colour stability and UV resistance
- Uniform quality — no peeling or bubbling

02 — ORIGIN & INNOVATION

Insignis brings this Japanese aluminium-wood technology to India.

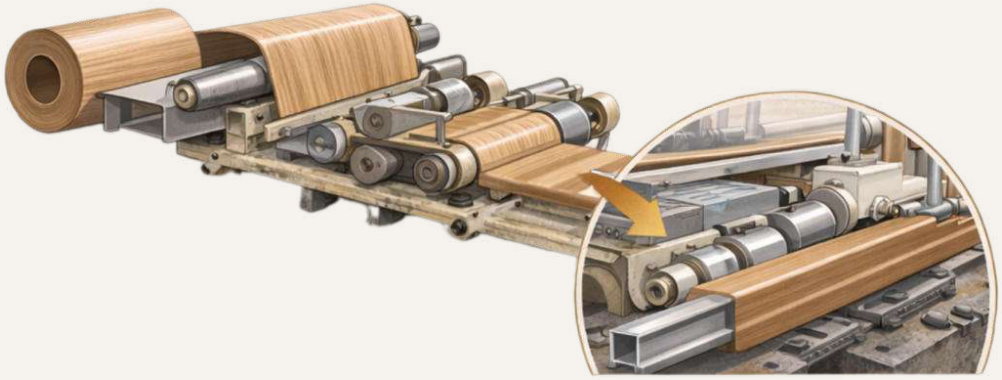
Insignis — a premium architectural materials innovator — is introducing ALUSKIN for several strategic reasons:

- **High demand for low-maintenance luxury materials**
- **Engineered for tough Indian climates**
- **Faster installations & project efficiency**
- **Design versatility, indoors and out**



03 — HOW IT'S MADE

The advanced fiber-skin lamination process



01 **Aluminium + wood-fiber skin**
A precision aluminium profile is paired with a Japanese wood-fiber skin film.

02 **Advanced wrapping machine**
Heated, pressurized rollers press the film onto the profile for a seamless bond.

03 **Finished product**
A durable, wood-like aluminium profile — weather-, scratch- and maintenance-proof.



04 — WHAT WE OFFER

Engineered for every elevation

Pergolas & Ceilings

High-strength profiles with superior load-bearing capacity and outdoor durability.

Carports

Stylish, durable protection combining elegance with low-maintenance performance.

Screen Fences & Gates

Precision-engineered aluminium with wood-finish and protective coating.

Facades & Louvers

Systems that elevate architectural expression and building performance.

Interior Applications

Durable wall cladding, partitions and décor panels with advanced wood finishes.

05 — CHOOSING A FINISH

ALUSKIN foil vs. powder coating





	ALUSKIN Foil	Powder Coating
Aesthetics	Genuine metallic luster and realistic wood-grain texture.	Uniform, solid colour — matte, glossy or textured, without "real" depth.
Application	Wrapped / laminated — ideal for sharp edges and complex profiles.	Electrostatic spray — ideal for large flat surfaces or cast parts.
Durability	Extremely chip and scratch resistant — a thick protective layer for high-traffic areas.	High UV resistance; won't chip; acts as an extra moisture barrier.



06 — FEATURES & SPECIFICATIONS

Precision in every finish

Consistent finish quality

Automated electrostatic spray ensures uniform coating thickness, smooth texture and even colour, batch after batch.

Higher production capacity

Faster execution, consistent colour matching, reliable supply for large-scale developments.

Better corrosion resistance

Advanced pre-treatment and high-performance polyester powders protect against moisture, UV and environmental damage.

Compliance with architectural standards

Follows standards such as Qualicoat and AAMA — durability, adhesion and long-term weather resistance.

06 — FEATURES & SPECIFICATIONS

Built for permanence

35 YR GUARANTEE

Fire Rated
Tested and compliant with global fire safety standards.

Vast Colour Range
Broad wood tones and modern finishes, engineered for lasting colour.

Sustainable
Aluminium wrapped in wood-fiber skin supports eco-friendly construction.

Zero Maintenance
No polishing or repainting — a wipe keeps it looking new.

Extensively Tested
The most realistic, elegant alternative to natural timber.

Japanese Precision
State-of-the-art wrapping — seamless overlaps, authentic finishes.

Built to Last
Resists warping, rust, fading, splitting and peeling — in humid, hot and coastal climates.

Easy Installation & Low Reflectivity
Lightweight and dimensionally stable; low LRV minimises glare.



07 — TESTED TO LAST

Independently verified performance

Our product has been independently tested by Intertek to validate durability and performance, per the following ASTM standards:

ASTM D3395

Tensile Performance & Stability

Confirms material strength and resistance to mechanical degradation under controlled stress.

ASTM G155

Accelerated Weathering (Xenon Arc)

Simulates long-term outdoor exposure to sunlight and moisture to assess weather durability.

Through comprehensive third-party validation, Insignis ensures every product delivers consistent reliability, structural integrity and long-term durability — the confidence architects need to specify with certainty.



08 — APPLICATIONS

Six ways to specify ALUSKIN



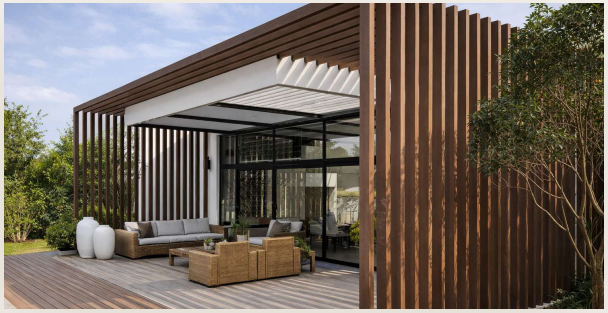
Louver

Fixed or movable slats that admit air and light while keeping out rain and direct sun.



Rafter

Sloping structural beams defining a roof's pitch while supporting decking and loads.



Pergola

A shaded walkway or sitting area beneath an open lattice roof.



Soffit Ceiling

The underside of an architectural feature, concealing structure with warmth.



Vertical Cladding

Clean, modern expression enhancing depth and shadow lines on facades.



Parametric Facade

A building envelope driven by algorithms — sunlight, wind and load as parameters.

09 — CLADDING PROFILES

Signature profiles



Barcode

Irregular staccato rhythm of vertical slats — a dynamic, modern texture.

L 3660 · W 135 · H 18 · G 1.3



Duo

Twin-rib, double-slat design — balanced and symmetrical.

L 3660 · W 120 · H 18 · G 1.4



Trio

Three evenly spaced ribs — depth, shadow play, strong lines.

L 3660 · W 150 · H 18 · G 1.4



Uniball

Rounded tubular ribs — a soft, fluid "bullet" texture.

L 3660 · W 125 · H 13 · G 1.2



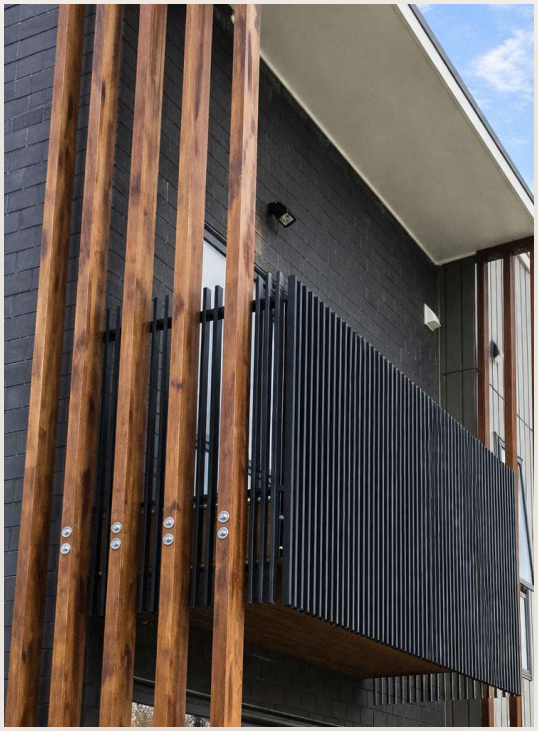
Belmonte

Rhythmic 3D texture with deep shadow gaps for exteriors and fences.

L 3660 · W 150 · H 18 · G 1.1

09 — CLADDING PROFILES

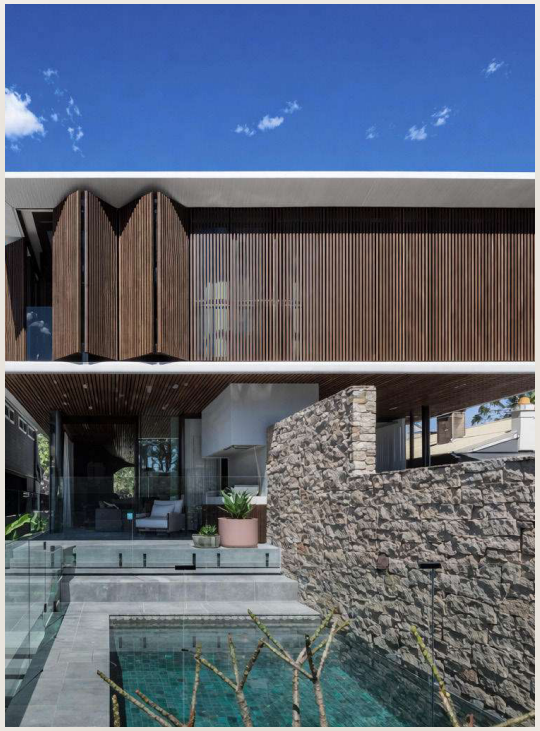
Concealed battens & fins



Click-to-Click

A two-part interlocking batten fixed with no visible screws — a fully concealed system, in 4m or 6m lengths.

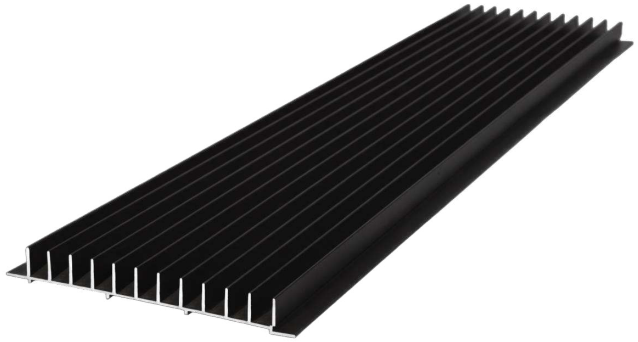
25 × 50	Gauge 1.2
50 × 50	Gauge 1.5
50 × 100	Gauge 1.5
50 × 125	Gauge 1.5
50 × 150	Gauge 1.5



Fins

Standard hollow aluminium sections that replicate wooden battens, with no special fixtures. Square, rectangular, round and plank profiles in 4m or 6m lengths.

- 25 × 25
- 25 × 50
- 50 × 50
- 50 × 100
- 50 × 150



10 — POWDER-COATED RANGE

A broader palette of profiles

25-YEAR GUARANTEE
ON ALL PROFILES

Trio 135 × 20mm	**Penta** 130 × 20mm	**Moon** 135 × 20mm
Amoeba 155 × 55mm	**Trident** 130 × 25mm	**Pin** 145 × 20mm
Belmonte 140 × 15mm	**Sigma** 165 × 40mm	**Duo** 115 × 15mm
K2 130 × 30mm	**Triplet** 155 × 25mm	**Barcode** 135 × 20mm

All lengths 3660mm. Electrostatic powder coating — a durable, protective layer of dry resin.

11 — SHADES

Wood grain & solid tones

ALUSKIN FIBER-SKIN SHADES — EX SERIES

EX-5224 Current Wood | EX-5237 Current Wood | EX-5222 EMG Maple | EX-5215 EM HEG | EX-5106 Rhythm Nut | EX-5173 EM Uzukuri

POWDER-COATING WOOD GRAIN SHADES

DW-94 | DWT-5 | LT-94 | M35PM | L-650 | PO181

SOLID COLOUR SHADES

PO501 | POM5 | SFT800



12 — DETAILS & ACCESSORIES

The details make the design

A premium line of architectural aluminium trims and reveals, engineered to enhance and protect interior spaces across offices, retail, hospitality and custom ALUSKIN installations.

Aluminium Trims

Z Shadow Bead · Z Shadow Reveal Bead
Recessed Base · Joint Cover Reveal
Reveal Base · U Channel · Reveal Corners

"L" Profiles

Even angles — 25×25 to 100×100
Uneven angles — 25×50 to 50×100
Trusted structural & design components.

End Trims & Caps

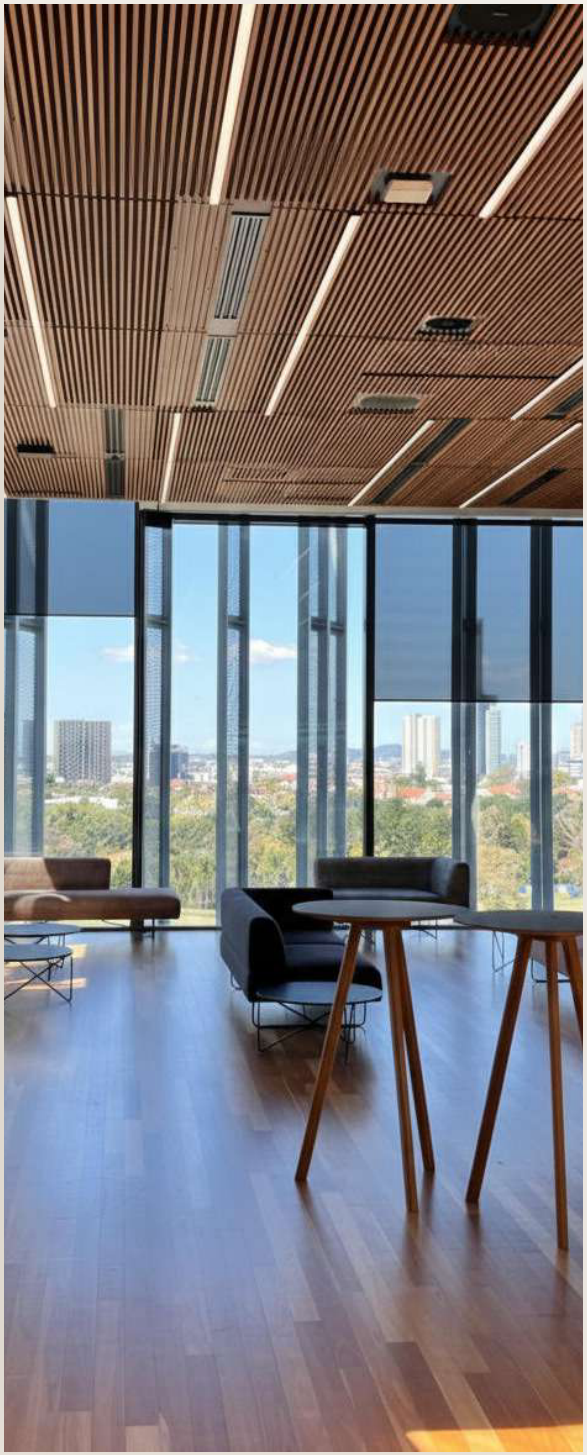
Radius End Cap · End / Base Cap
Shelf Face Cap — clean, protective finishes for exposed panel edges.

Recommended Use

TRIO & BARCODE panels · fluted panels composite wall panels · wood-finish cladding.







PROJECT IMPLEMENTATION

Vertical Cladding & Soffit Ceilings

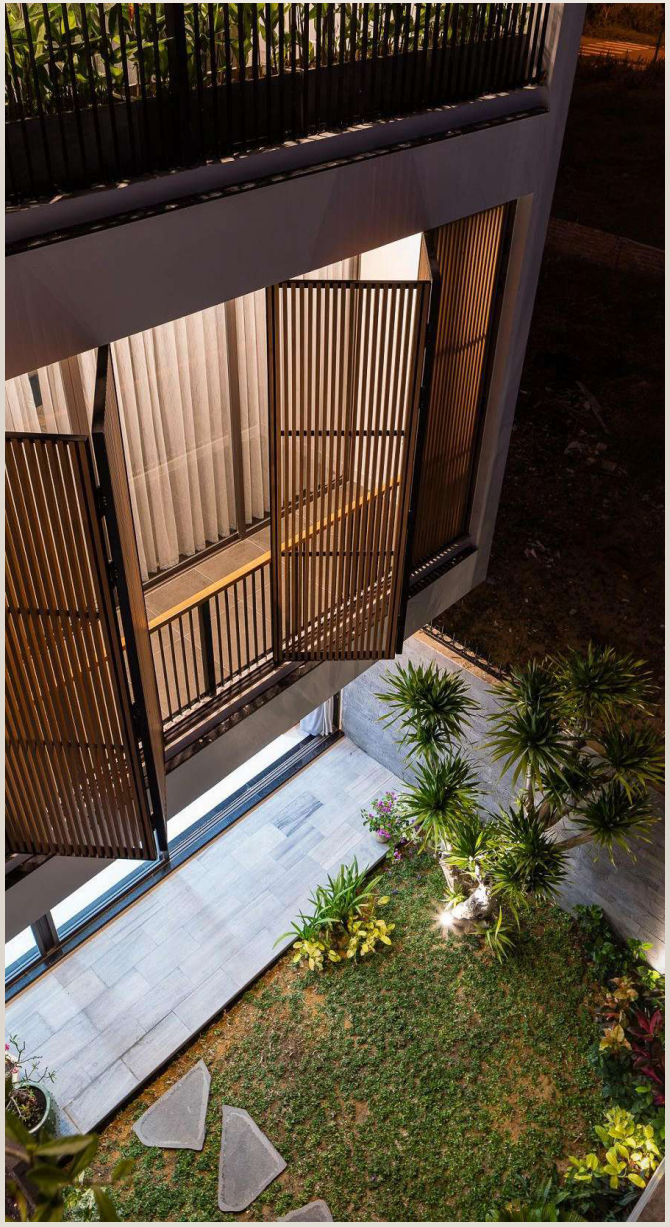
Facades with depth and rhythm; soffits and ceilings that carry warmth from the exterior in. One material language, indoors and out.

PROJECT IMPLEMENTATION

Rafter & Fins

Screens, shutters and vertical fins — light and privacy, tuned by design.







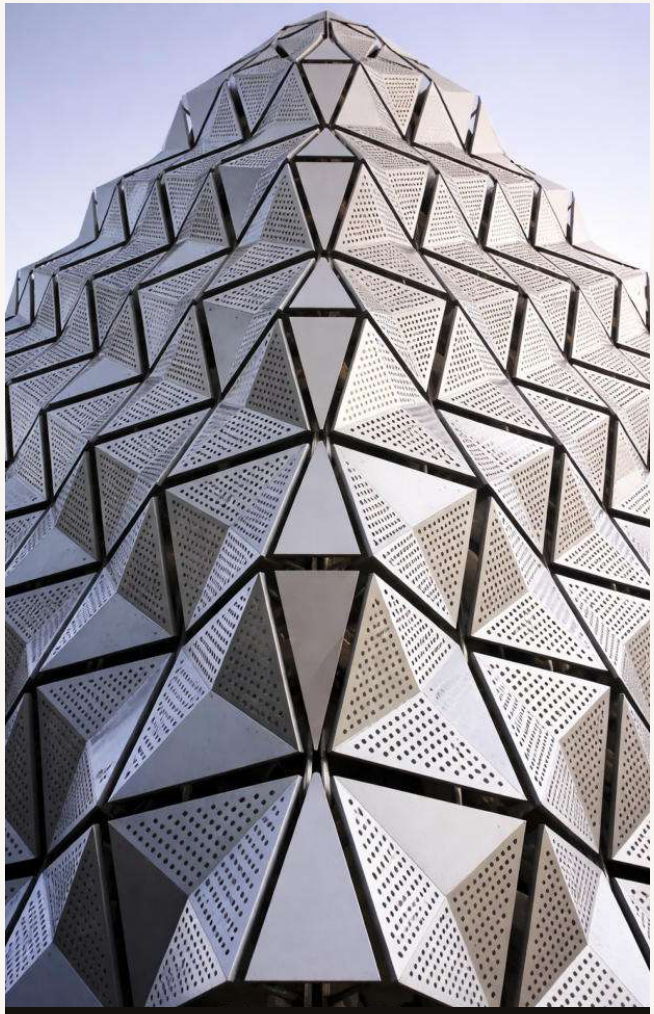
13 — PARAMETRIC FACADES

A new architectural language

Instead of drawing a fixed shape, architects define parameters — sunlight angles, wind patterns, structural loads — and the software generates the geometry. Aluminium is its natural medium: light, precise and endlessly formable.

Styles of the parametric language

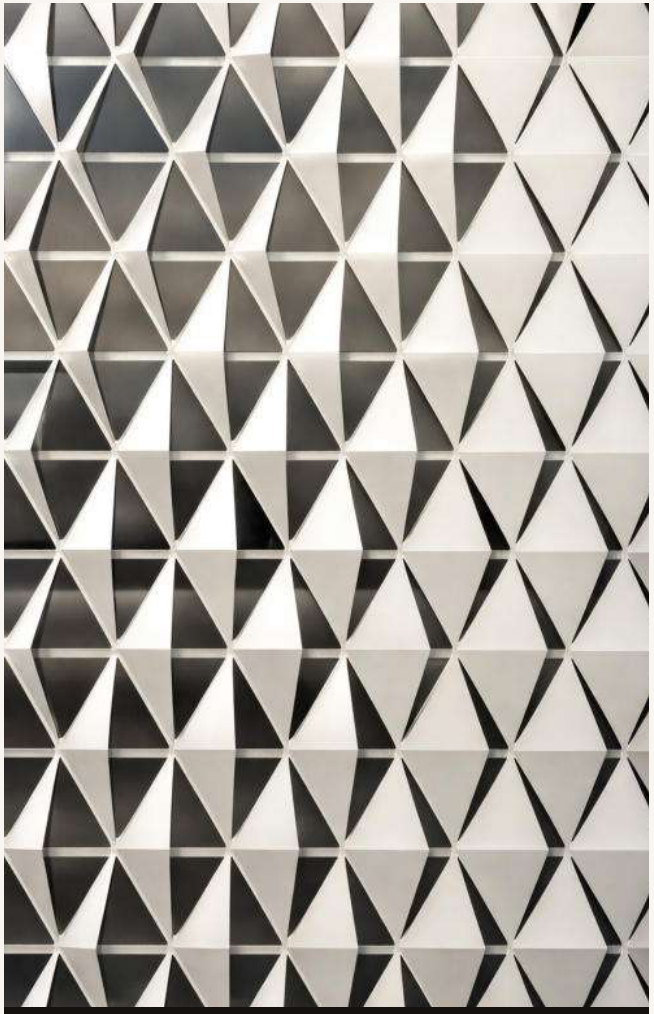
Each geometry tunes light, privacy and airflow differently — engineered in ALUSKIN aluminium.



PERFORATED SCREEN



PERFORATED MODULES



FOLDED METAL

Gradient Pattern | Metal Shingles | Interconnectivity | Vertical Members — generated per project, engineered by Insignis.

LET'S BEGIN

Let's specify ALUSKIN.

For architects and facade consultants ready to bring Japanese wood-finish aluminium technology to their next project.

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Where surface becomes expression.