

15 YEARS WARRANTY



ARCHITECTURE
COLLECTION 2025-26



The Virgo Group of companies constantly looks out for innovation and challenges in industry where it meets with its passion to excel in whatever it does. Across all its group companies, manufacturing laminates, plywood, aluminum and ACP it maintains a philosophy of reaching out to perfection, no matter what it takes, whether high-end resources or a superlative manpower.



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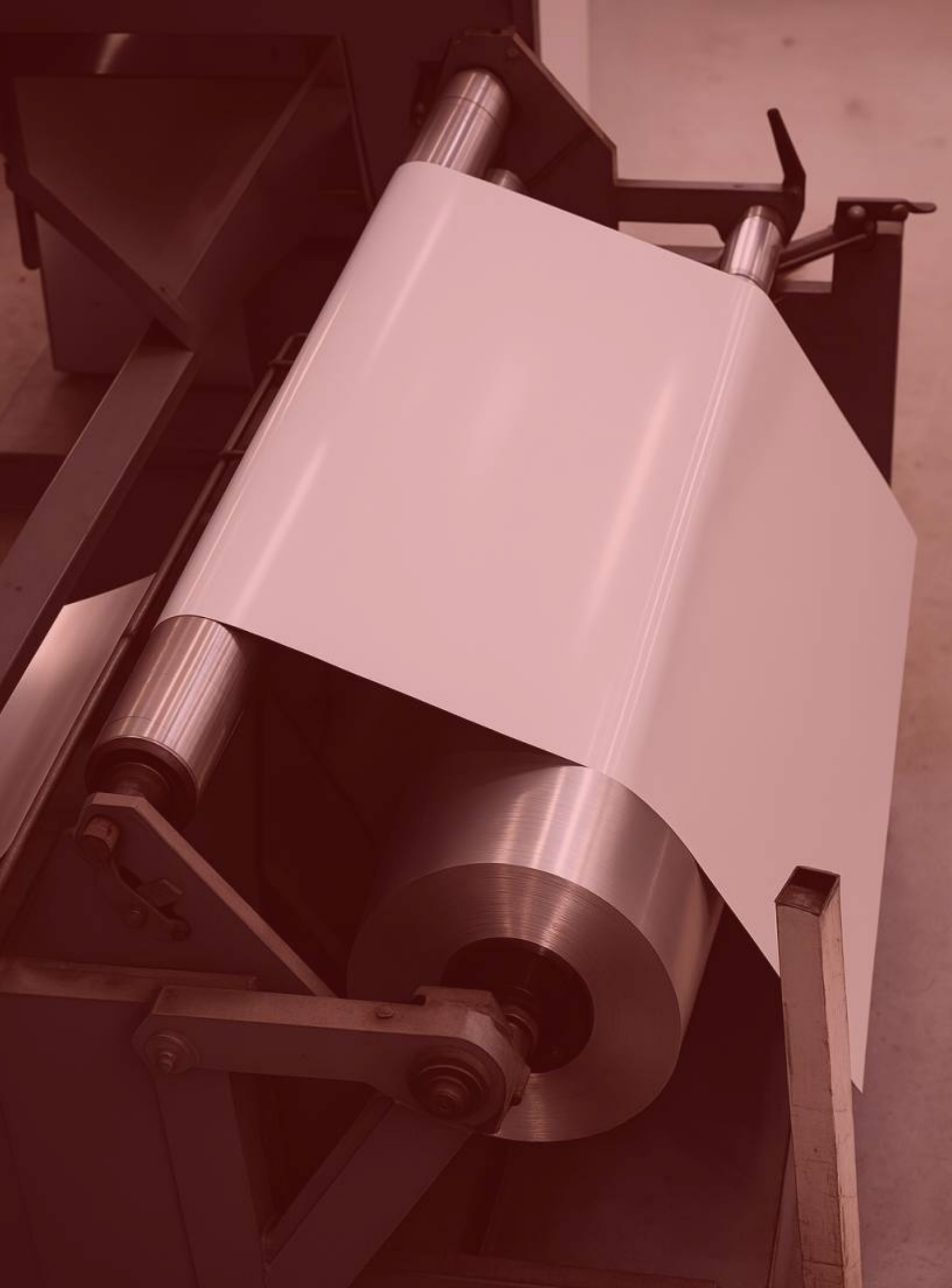
INFINITE
APPLICATIONS



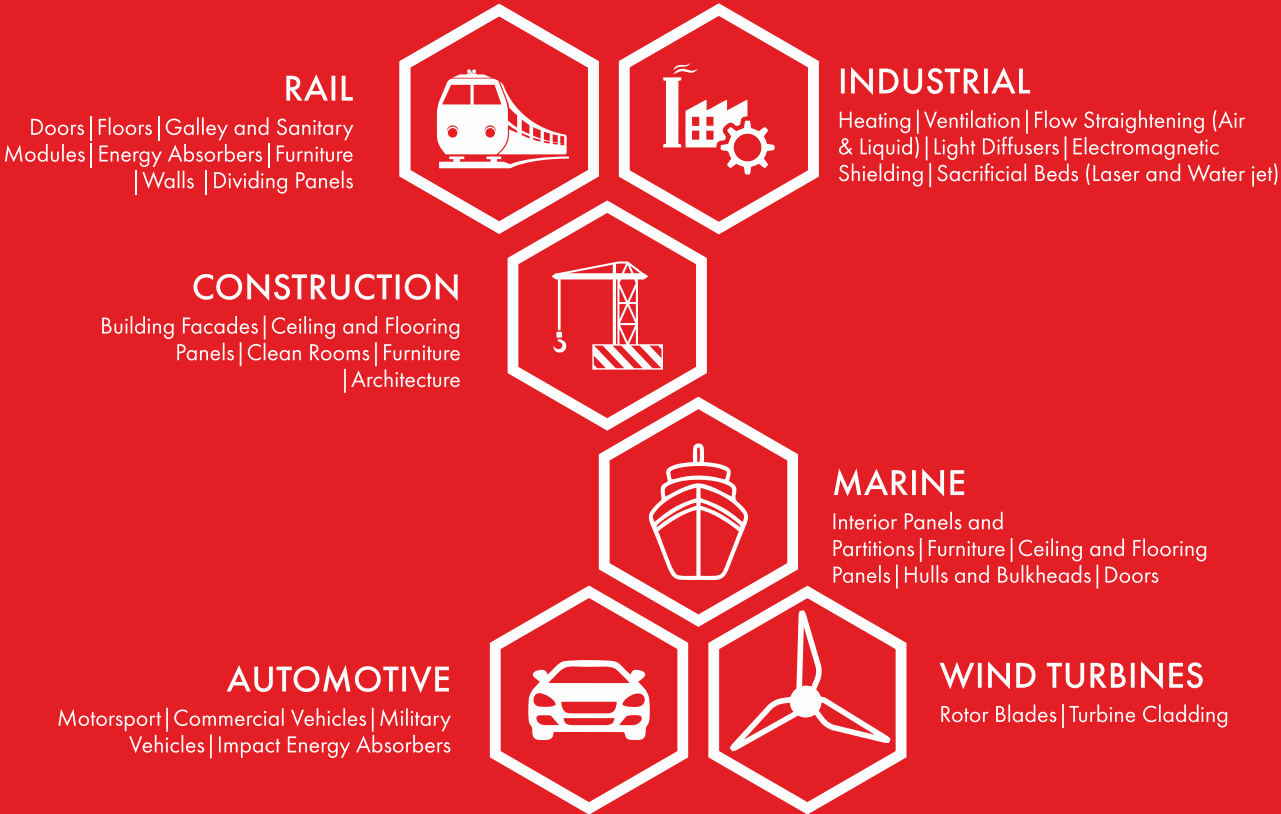
15 YEARS WARRANTY

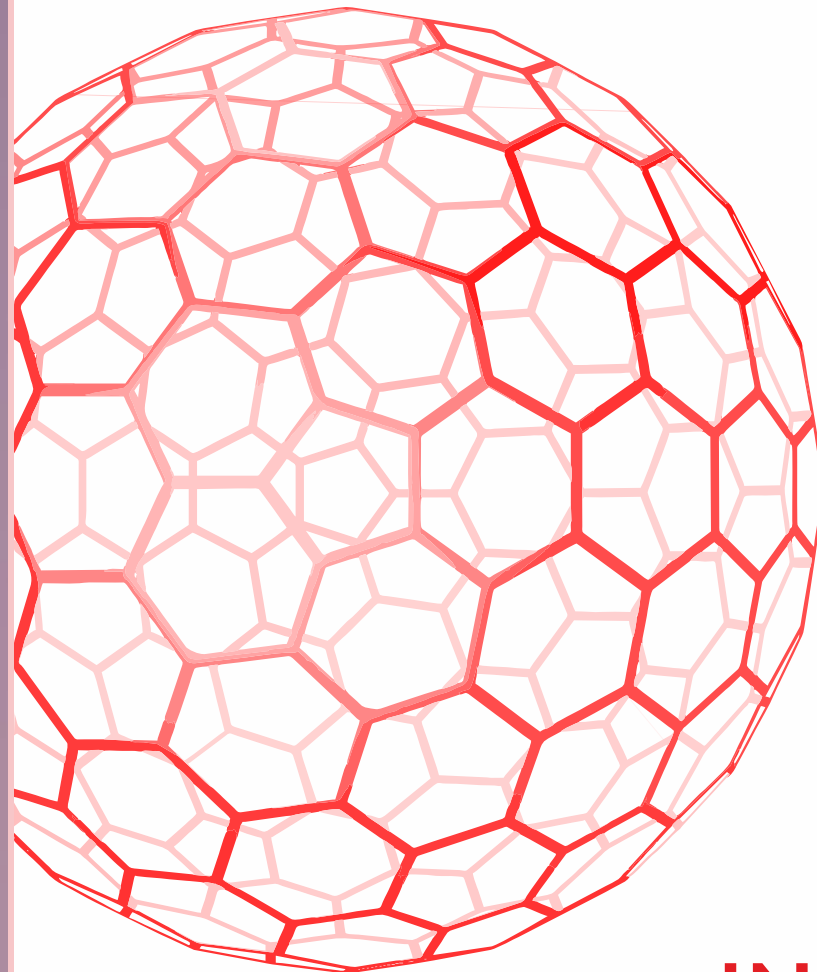


ARCHITECTURE
COLLECTION 2025-26



Virgo Honeycomb provides high quality aluminium honeycomb to industries worldwide and offers a wealth of expertise together with a global distribution network.





INFINITE APPLICATIONS

We are led by a customer-focused and highly professional team, dedicated to delivering the perfect solution for your project. Our specialised Engineering and Product Development Team, supported by onsite production and testing facilities, ensures that every requirement is met with precision and reliability.

The two key characteristics of aluminium honeycomb – exceptional strength combined with extremely low weight – make it ideal for a wide range of advanced applications. Aluminium honeycomb is engineered to sit between two surface skins, forming a high-performance sandwich panel. By creating distance between the skins and preventing movement, the structure gains remarkable rigidity while keeping weight to a minimum.

At Virgo Honeycomb, we take pride in working collaboratively with our customers to develop the right solutions, supporting businesses across the world.

Virgo Honeycomb has contributed to numerous iconic and innovative projects, Visit our website to learn more.

INFINITE APPLICATIONS

RAIL

Doors | Floors | Galley & Sanitary Modules | Energy
Absorbers | Furniture | Walls | Dividing Panels

For more than 32 years, Virgo Hex has been a trusted and established aluminium honeycomb supplier to the composites industry, consistently delivering materials that meet the high standards required for modern engineering applications. Over these decades, the company has built strong expertise and long-term partnerships by focusing on product reliability, technical precision, and customer satisfaction.

These qualities make Virgo Hex ideal for train floors, interior furniture, galley and sanitary modules, interior partitions, and various other lightweight structural components, supporting the creation of strong, durable, and efficient composite structures across the transportation and manufacturing sectors.



INFINITE APPLICATIONS

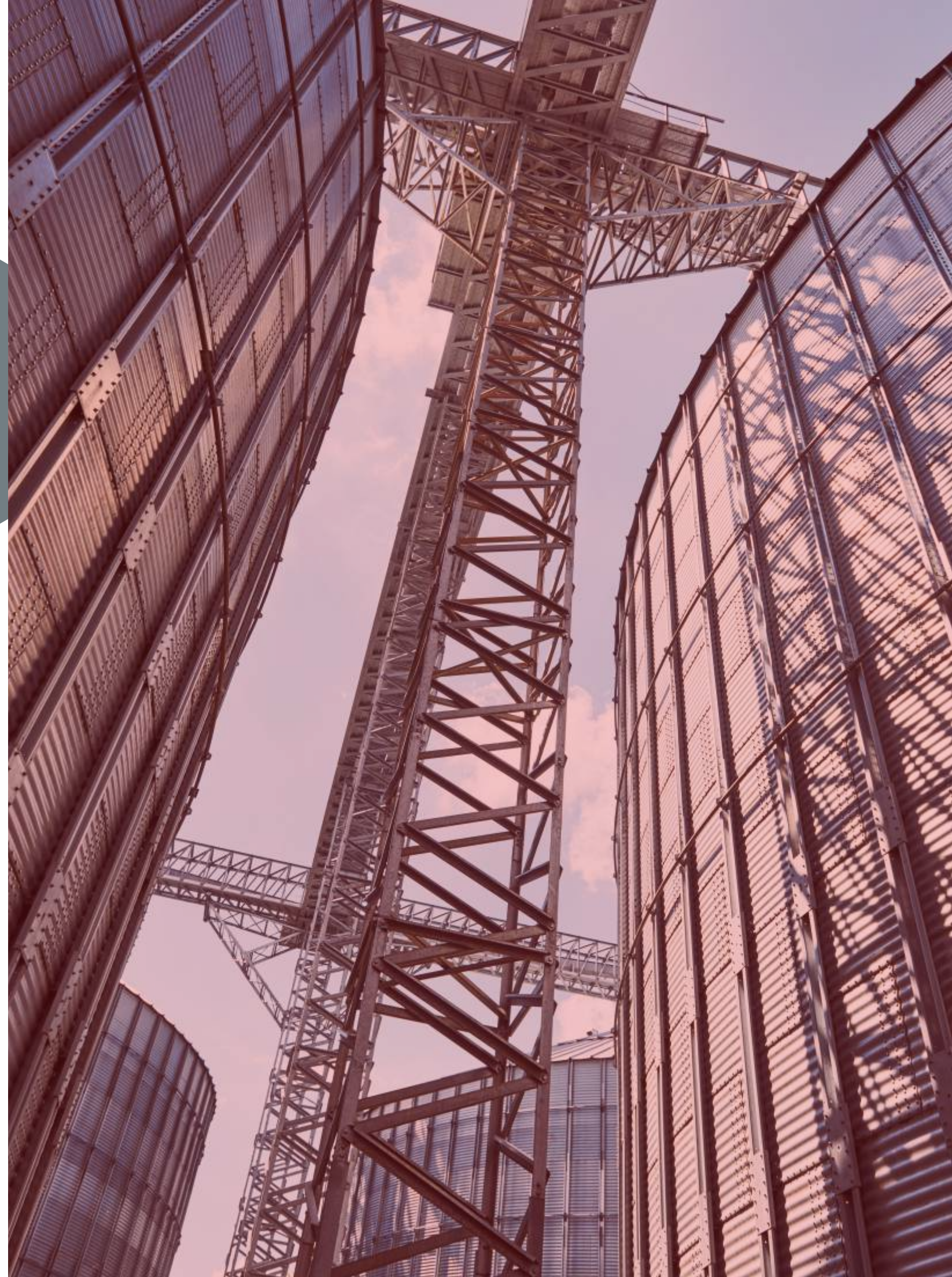
INDUSTRIAL

Heating Ventilation | Flow Straightening (Air & Liquid) | Light Diffusers | Electromagnetic Shielding | Sacrificial Beds (Laser & Water Jet)

Virgo hex is ideal for a wide range of specialised applications, including flow straightening, shielding, and sacrificial bed systems. Virgo Honeycomb provides material that significantly enhances structural strength and rigidity while adding minimal weight to the final product. Virgo Hex is commonly used to straighten, direct, and filter the flow of air, liquids, and light. Its open-cell structure allows maximum flow with minimal resistance, making it suitable for highly controlled environments.

In ventilation systems and wind tunnels, aluminium honeycomb acts as an effective flow straightener. Ventilation panels incorporating honeycomb are often used in electronic enclosures where efficient air circulation is essential. In wind tunnels, powerful fans push air through a tubular passage, with the honeycomb ensuring a steady, uniform airflow over the test object, which is equipped with sensors to measure aerodynamic performance.

As a light diffuser, honeycomb material softens and directs illumination, reducing harsh light and hard shadows. This is especially useful in photography, film, and precision lighting applications. When used as a sacrificial bed for water jet and laser cutting, aluminium honeycomb provides a flat, stable support surface during machining. Over time, residue builds up on the bed and it must be replaced periodically to ensure clean, uncontaminated cutting.



INFINITE APPLICATIONS

CONSTRUCTION

Building Facades | Ceiling & Flooring Panels |
Furniture Architecture | Clean Rooms

Virgo Hex is a recognised and trusted supplier of aluminium honeycomb for the global construction industry. Its exceptional strength-to-weight ratio, rigidity, and stability make it the material of choice for manufacturing both decorative and structural sandwich panels used in building facades, ceilings, floors, and clean room applications.

Our extensive expertise in core materials has supported numerous construction and architectural projects around the world.

Virgo Hex supplied the aluminium honeycomb core used in the rainscreen façade system at Lancing College. This system is engineered to provide superior drainage and ventilation within the cavity while maintaining effective rainscreen performance.



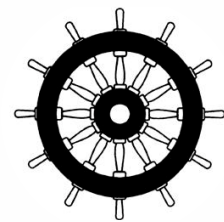
INFINITE APPLICATIONS

MARINE

Interior Panels & Partitions | Furniture | Ceiling & Flooring Panels | Hulls & Bulkheads | Doors

The high strength-to-weight ratio and exceptional corrosion resistance of Virgo Hex make it an ideal material for a wide range of marine applications, including the construction of doors, flooring systems, wall partitions, interior panels, furniture, hull components, and bulkheads.

With the necessary certifications in place and decades of technical expertise, Virgo Hex is the ideal partner for collaborating on marine projects, supporting shipbuilders and manufacturers with safe, lightweight, and high-performance core materials.



INFINITE APPLICATIONS



AUTOMOTIVE

Motorsports | Commercial Vehicles | Military Vehicles | Impact Energy Absorbers

Virgo Hex is widely used across the automotive, motorsport, defence, and commercial vehicle sectors. Its exceptional strength-to-weight ratio and structural rigidity make it ideal for applications in military vehicles, cars, buses, commercial fleets, caravans, and a variety of motorsport categories, including Formula racing and touring cars.

Within these industries, Virgo Hex is utilised in interior and exterior body panels, spoilers, floors, chassis components, wings, diffusers, and high-performance energy absorbers. Its lightweight properties reduce overall vehicle mass and fuel consumption, enhancing performance while maintaining chassis strength and rigidity.



INFINITE APPLICATIONS

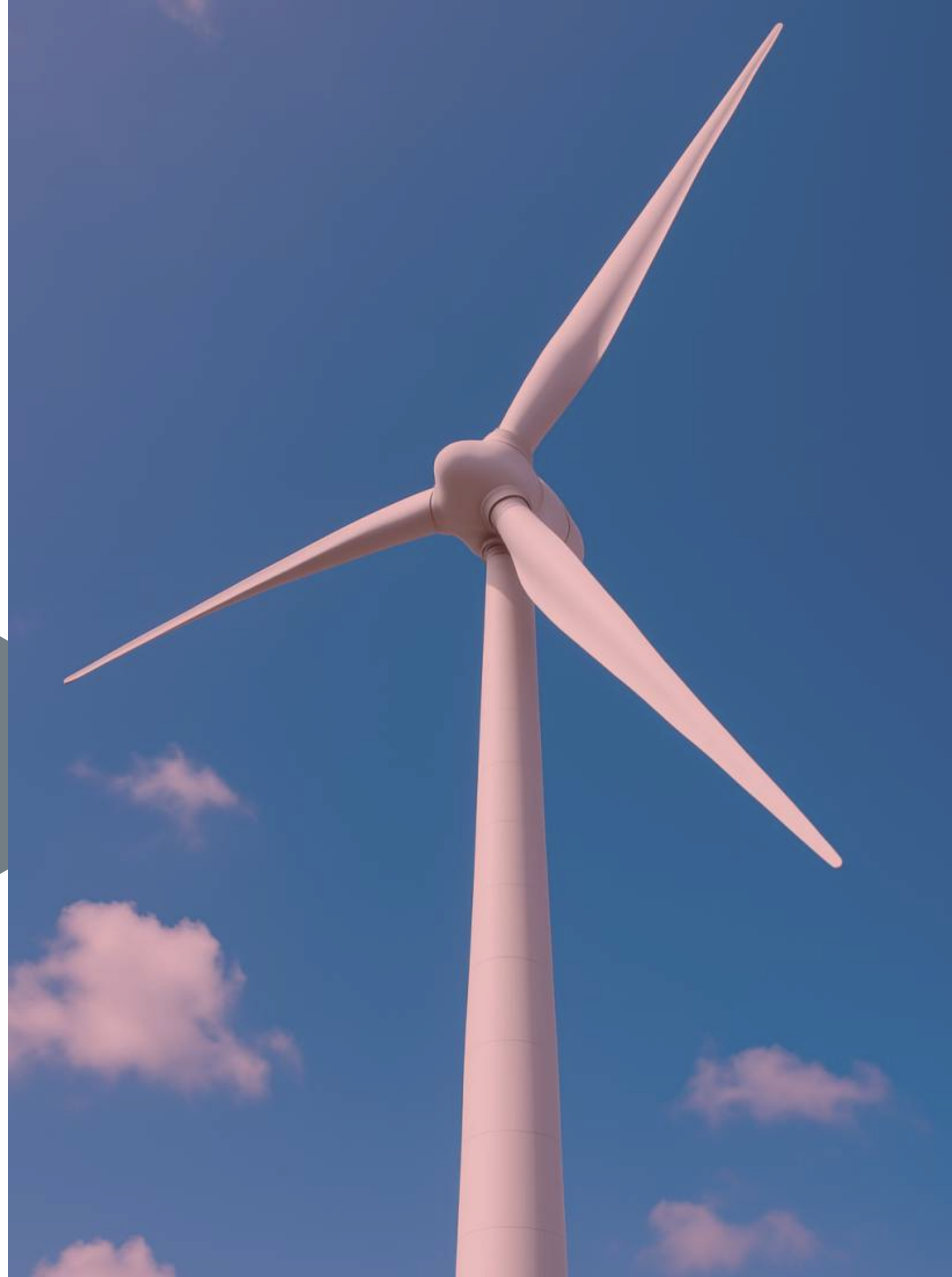
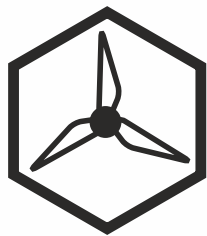
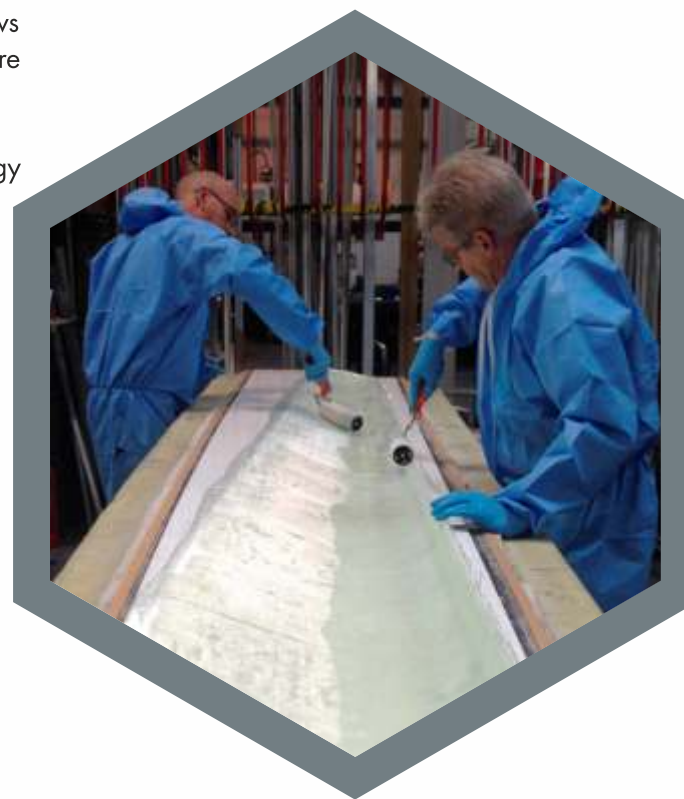
WIND TURBINES

Rotor Blades | Turbine Cladding

Virgo Hex plays a crucial role in the development of modern wind turbine structures, where lightweight strength and long-term durability are essential. The unique high strength-to-weight ratio of Virgo honeycomb makes it an ideal core material for rotor blades, enabling them to maintain exceptional rigidity while reducing overall mass for maximum rotational efficiency. This leads to improved energy capture, reduced mechanical stress, and longer operational life.

In turbine cladding, Virgo Hex provides outstanding stability, impact resistance, and environmental durability. Its corrosion-resistant structure ensures consistent performance even under extreme weather conditions, temperature variations, and continuous vibration. The open-cell honeycomb design also allows for efficient bonding with composite skins, creating panels that are robust yet lightweight.

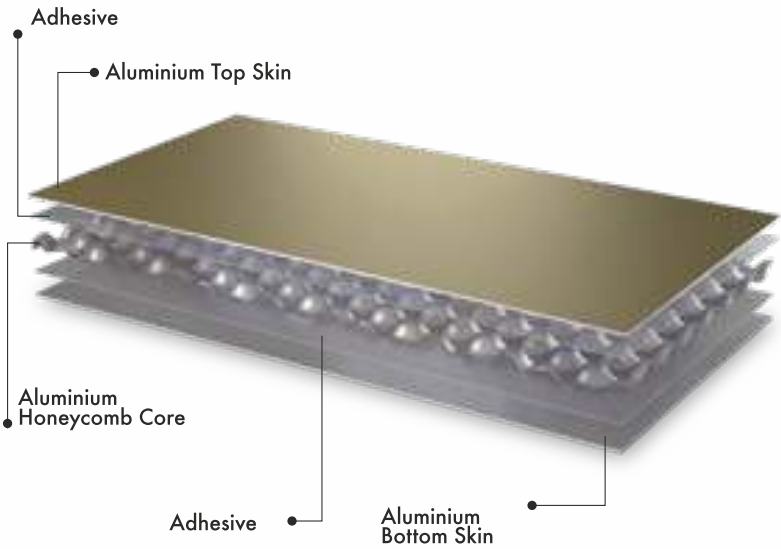
With these advantages, Virgo Hex supports the renewable energy sector in building stronger, lighter, and more efficient turbine systems, making it a trusted material for next-generation wind technology.



INFINITE
APPLICATIONS

Virgo Hex

Virgo Hex is a next-generation architectural panel engineered with a precision-formed aluminium honeycomb core bonded between two high-strength aluminium skins. This advanced sandwich composite structure delivers exceptional rigidity while maintaining extremely low weight – a hallmark of true high-performance engineering.



The unique hexagonal honeycomb geometry dramatically increases the distance between the cover sheets, resulting in superior flexural strength and an unmatched strength-to-weight ratio. Despite its lightweight nature, Virgo Honeycomb panels offer remarkable stiffness, stability, and long-term durability.

Thanks to these properties, Virgo Honeycomb is the ideal solution for projects requiring high structural performance, including:

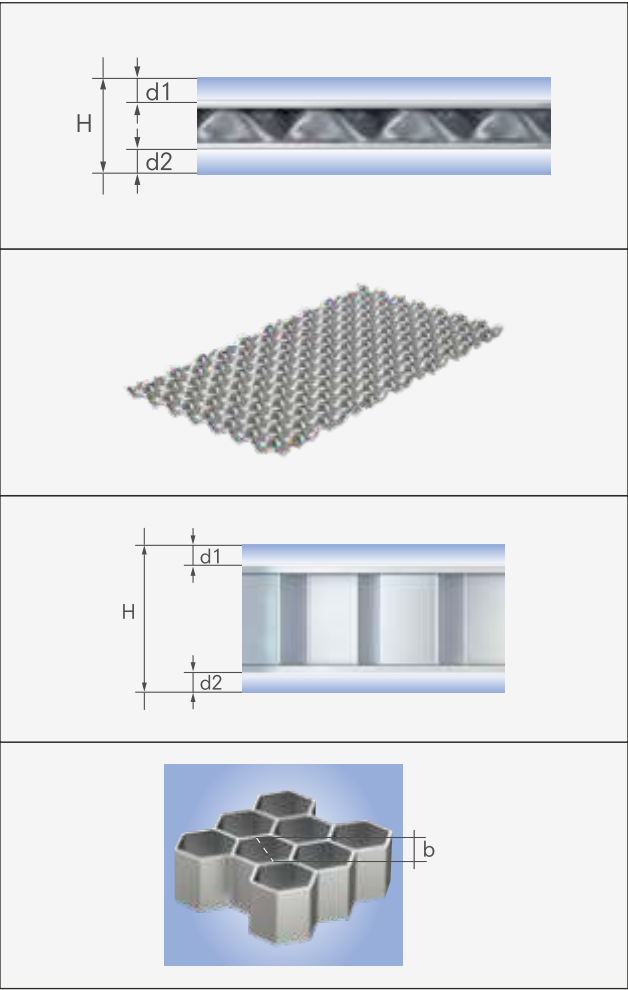
- Façade cladding exposed to strong wind pressures
- Large-format architectural panels
- Self-supporting structures
- Walkable roof panels
- Lightweight yet rigid roofing and canopy systems

Its consistent flatness, resistance to deformation, and superior mechanical strength make it a trusted choice for demanding architectural and industrial applications.

Product Range — Virgo Hex

- Panel Thickness:** 10mm, 15mm, 20 mm, 22 mm & 25 mm
Standard Widths: 1250 mm, 1500 mm
Maximum Length: ≤ 6000 mm

FEATURES	ADVANTAGES
Unmatched Strength-to-Weight Ratio	Ideal for self-supporting structures, roofing systems & large panels
High Flexural Rigidity	Suitable for high-wind zones & demanding engineering conditions
No Thermoplastic Core	Enhanced fire safety & long-term structural reliability
Class A2-s1, d0 (EN 13501-1)	Meets global fire-performance standards with superior safety
Superior Flatness	Ensures premium aesthetics with distortion-free surfaces
Marine Grade Alloy 5xxx with H24 Temper	Exceptional corrosion resistance & durability
PVDF/FEVE Coatings (AAMA 2605)	Long-lasting color retention & superior weather resistance
Wide Range of Colours & Textures	Supports creative & architectural design freedom
Easy Fabrication	Compatible with standard tools for effortless processing
Value Added Services (VAS)	Precision finishing & total quality assurance



Virgo Honeycomb panels are engineered with a high-strength aluminium honeycomb core bonded between precision-rolled aluminium skins.

Available in thicknesses of 10mm, 15mm, 20mm, and 25mm, these panels feature 1mm front sheets and 0.5mm to 1mm back sheets, offering excellent rigidity with minimal weight.

The core is made from standard aluminium foils with cell sizes ranging from 10mm to 19mm, ensuring superior stability and consistent performance across applications.

Designed with advanced sandwich-composite technology, Virgo Honeycomb delivers exceptional flatness, lightweight construction, and enhanced structural durability.

TECHNICAL SPECIFICATION

1. Alloy Specifications

Top & Bottom Coil	AA 3105 (H16, H24)
Honeycomb Core	AA 3003 (H16)

2. Panel Properties

Panel Thickness	6–200 mm (±0.5 mm)
Top Coil Thickness	0.5 / 0.7 mm (±0.05 mm)
Bottom Coil Thickness	0.5 / 0.7 mm (±0.05 mm)
Max Width	1550 mm (±2 mm)
Max Length	< 9000 mm (±2 mm)
Weight (12mm)	4.0 kg/m²
Weight (25mm)	4.5 kg/m²
U-Value	5.5 W/m²K

3. Honeycomb Core Properties

Cell Size	10–20 mm
Foil Thickness	0.076 mm

4. Coating Specifications

Top Coating	SDP / FEVE / PVDF
Top Coating Thickness	25–28µ (2-coat), 30–35µ (3-coat)
Bottom Coating	Service Coat
Bottom Coating Thickness	4–7µ

5. Panel Sizes

Length	2440–3050 mm
Width	1220 mm
Thickness Options	10, 12, 25 mm

6. Glue System

Adhesive	Two-Component PU (Auto-Sprayed)
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INNOVATIVE DESIGNS AND
FUTURISTIC SOLUTION



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