



BLOOH SOLUTION
LTD.

HONEYCOMB TECHNOLOGY PANELS

STRUCTURAL PANELS WITH HIGH
STIFFNESS AND LOW WEIGHT FOR
FACADES AND TECHNICAL DESIGNS.

OUR PRODUCTS

ALUMINIUM PANEL 5052/5056

Aluminium honeycombs with various surface layers made from different materials such as Aluminium, fiber-glass-reinforced plastic (GFRP), and carbon fiber-reinforced plastic (CFRP).

- Excellent resistance to corrosion and moisture
- High load capacity relative to its weight
- Suitable for higher temperatures



CARBON FIBER PANEL

High-quality panels with a carbon fiber honeycomb core and a durable carbon fiber outer layer.

- Available in various sizes
- Suitable for aerospace applications
- Combination of carbon fiber and cyanate ester resin
- Internal ventilation through perforated honeycomb structure
- Free from ITAR restrictions

OUR PRODUCTS

GLASS FIBER PANEL

Durable panel with a glass fiber core in honeycomb technology, available in various sizes.

- Very lightweight construction
- Suitable for aerospace applications
- Internal ventilation through perforated honeycomb structure
- Free from ITAR restrictions



ALUMINIUM PANEL 3003

The 3003 Aluminium panel is particularly well-suited for industrial applications and is available in lengths of up to 18 linear meters.

- The inner core consists of a 3003 Aluminium alloy
- The outer layer is made of 5754 Aluminium sheet
- Honeycomb perforation possible
- Designed for continuous loads in
- Temperature range from -55 to 180°C



OUR PRODUCTS

Aluminium CARBON FIBER PANEL

The Aluminium-carbon fiber panels have a honeycomb core made of Aluminium and a carbon fiber outer layer.

- High heat resistance: suitable for continuous exposure up to 180°C
- Outer layer made of durable carbon fiber
- Honeycomb core made of 5052, 5056, or 3003 Aluminium alloy
- Customizable surface design



PHENOLIC RESIN PANEL

Custom-made, durable composite panel with a glass fiber honeycomb core and a phenolic resin outer layer. Well-suited for industrial applications or aircraft interior fittings.

- Very lightweight
- Extremely durable
- Moisture-resistant
- EASA-approved for interior use



OUR PRODUCTS

RAIL PANELS

Custom-made composite panels with cores made of honeycomb, foam, cork, and other lightweight materials, and outer layers of Aluminium, fiberglass, carbon fiber, steel, and other possible materials.

- Configurable according to customer requirements
- Can be processed in various ways
- Option to integrate profiles



SEMIFINISHED PANEL FOR AVIATION

Ready-to-install floor panel for cargo compartments

- Primed surface
- High load capacity
- Ready for installation
- Impact-resistant
- Shockproof

AEROSPACE PANELS

For aerospace applications, we offer structural panels made of high-quality Aluminium with the option to integrate heat pipes. The panels can be manufactured from carbon fiber, glass fiber, or other materials. If required, the panels can be reinforced with profiles or fitted with inserts.




OUR PRODUCTS

INDUSTRIAL PANELS

Our industrial panels can be manufactured in sizes up to 3 x 18 meters. They are highly durable and withstand continuous temperatures of up to 180°C. The panels can be further processed as needed or equipped with inserts, edge profiles, or rollers. Various surface treatments and decorative finishes are available for the panel surfaces.



MATERIAL COMBINATIONS

<div> INFINITY ENERGY SOLUTIONS CORP.</div> <div>High-strength panels with extremely low weight and high rigidity for use in aerospace, defense, and industrial sectors.</div>	SURFACES	HONEYCOMB CORE	ADDITIONAL OPTIONS
	<ul style="list-style-type: none">• Unidirectional Carbon Prepreg• Carbon Texture Prepreg• Epoxy Glass Prepreg• Phenolic Glass Prepreg• Aluminium	<ul style="list-style-type: none">• KEVLAR® Honeycombs• NOMEX® Honeycombs• Glass Fiber Honeycombs• Aluminium Honeycombs 5052 and 5056• Aluminium Honeycombs 3003	<ul style="list-style-type: none">• Inserts (Metal, ABS)• Helicoils• Cable Channels• Rails and Profiles

OUR PRODUCTS

CENTER FOR RESEARCH AND DEVELOPMENT

At our Competence Center, new materials are continuously developed and tested. The center focuses primarily on the following tasks:

- Product Development
- Extensive Testing
- Prototype Development
- Product Certification



OUR LARGE PRESSES

Our facility houses a wide range of presses for the production of our honeycomb panels.

The largest press is capable of producing honeycomb panels up to 18 meters in length.



OUR PRODUCTS

EPOXY RESIN PANELS

Lightweight honeycomb panel with an epoxy resin outer layer. Well-suited for aircraft interior fittings.

- Very lightweight
- Extremely durable
- Moisture-resistant
- EASA-approved for interior use



QUALIFICATIONS AND CERTIFICATIONS

AIRBRUSH
GROUP

ISO 9001 &
SAE AS 9100

BOEING
D1-4426

BOEING
8-124

EASA 21
PART G

EASA 21
PART 145

EASA 21
21 PART 3

IRIS

DIN
6701

NADCAP



DRIVING INNOVATION FORWARD!



**FOR MORE INFORMATION
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