



TECHNICAL DATA SHEET

Wonderful Structures designs and manufactures biophilic construction systems. Our core technologies are based on different patents of invention that use advanced composites, innovative technologies, and scalable manufacturing. Our products are currently sold in 15 countries.

Here we present the general technical information of the **KUUBIC** Technology, which will give you a better understanding of what we offer.

	Total Area	Size	Container Occupancy	Production Time
Dolphin - Tiny	8.32 m ² 89.55 Ft ²	L: 3.70 mt / 12.13 ft W: 2.25 mt / 7.38 ft H: 2.35 mt / 7.70 ft	0.33	3 weeks
Pegasus - VIP	12.37 m ² 133.14 Ft ²	L: 5.50 mt / 18.04 ft W: 2.25 mt / 7.38 ft H: 2.35 mt / 7.70 ft	0.50	4 weeks
Unicorn - Suite	24.75 m ² 266.40 Ft ²	L: 5.50 mt / 18.04 ft W: 4.50 mt / 14.76 ft H: 2.35 mt / 7.70 ft	1	5 weeks

WHAT IS INCLUDED AND NOT INCLUDED

Prices include: FRP Capsule components, insulated facades, floor, insulated ceiling, metal structure, doors and windows, technical installations (electric, hydraulic and water sewing), everything fully assembled. Also includes: floor plans in AutoCAD, structural calculations report and technical data sheet.

Optional: Internal doors and partitions, furniture, appliances, and decoration.

Prices do not include: The foundation, external technical installations (electric, hydraulic and water sewing), drainage if needed.

CUSTOM DESIGNS

If you want to modify any of our designs or want a custom design, we will gladly attend your request for any design you have in mind.

KUUBIC

Housing Module Ready to be Inhabited.

ADVANCED MODULAR TECHNOLOGY

Completely waterproof, with clean spaces, **KUUBIC** is built with modular components manufactured with the latest generation of fiber reinforced polymer technology. The structures offer wide range design possibilities, comfort, quick onsite assembly, and total security based on professional engineering and construction level.

We combine technologies, materials and construction methods that are fast, efficient, renewable, waste- reducing; to create uniquely beautiful and futuristic designs that blur the lines between inside and out.



GREEN ARCHITECTURE

Composed with recycled material and natural resins.



CUSTOMIZABLE INTERIOR WALL FINISH

From cozy to elegant, you can paint, apply wallpaper, or any other material if desired.



NATURAL LIGHTING INTERIOR WALL FINISH

Large openings draw in light to reflect on curved surfaces to provide bright interiors.



MOISTURE FREE

Insulated using earth and water sealed to create a completely dry interior.



HIGH STRENGTH STRUCTURES

Compliant with all International building codes.



ENDLESS DESIGN POSSIBILITIES INTERIOR WALL FINISH

Create your own dream home configuration.

TECHNOLOGY BENEFITS

- Factory modules made with long-lasting fiber reinforced polymers for increased lifecycle cost savings.
- Modules are manufactured in a high technology factory, where we develop each piece of the systems giving significant construction benefits.
- Low operational and maintenance costs to ensure a high ROI for the hospitality provider.
- The systems withstand all weather conditions and can be optimized for maximum performance in all climate zones and all seasons.
- Fully integrates with Passive House Standards - a set of high energy efficiency methods and practices that reduce a building's ecological footprint.
- Designed to be shipped anywhere since the modules can be handled as standard freight and transported on container vessels to any port in the world.

MEASUREMENTS INFORMATION:

3.70 mt / 12.13 ft

2.25 mt / 7.38 ft



5.50 mt / 18.04 ft

2.25 mt / 7.38 ft



5.50 mt / 18.04 ft

4.50 mt / 14.76 ft



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DESIGNER READY

You decide how special your project will be, choose your model, design your dream **KUUBIC** and place your order.

KUUBIC offers a blank canvas to materialize your vision, we believe that our technology can open new frontiers of creativity. Which offers you the opportunity to create an interior space according to your needs, taste, and budget.

MUTI-USE SPACE

You can create your interior design for each of our models:

Dolphin:

Tiny-Room, Office, military commando unit

Pegasus:

Hotel Room, Workshop, Guest room, recording studio, Multiple office, 4 people (cabin), bathrooms.

Unicorn:

4 people cabin, Gym, Spa with Turkish, jacuzzi, massages room and hall, Sales Room, etc.

OTHER USES

You can create your Hotel or Resort with **KUUBIC**, including:

Hotel rooms, bedrooms, bathroom batteries, restaurant, bar, coffee shop, laundry room, Spa, Gym, meeting room, administration office, maintenance room, deposit, social area, games room, cold room, business center, sales room, church, cinema, first aids-nursing, fast food, shopping, convenience store, towels room, and many more.



Spa - Turkish - Massage - Jacuzzi



Queen Bed - Bunk Bed - kitchen
Dining area - Bathroom

PRINTABLE FACADES

You can order your **KUUBIC** facades printed in multi-color with any design you want:



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SUITABLE CLIMATES:

Suitable for all climates and latitudes, including tropic, desert, and tundra (Snow)

FIRE AND EXPOSURE DATA

Flash Point Material is classified as nonflammable.

Ignition Temperature: typically 650°F or higher for FRP panels.

Extinguishing Media: Water, CO₂, dry chemical.

Fire Fighting Procedures

Use media best suited to fire environment. Use water to cool fire-exposed containers and to flush spills from ignition sources. Use self-contained breathing apparatus for large scale fires.

Unusual Fire or Explosion Hazards

With other building materials, combustion will yield toxic materials such as carbon monoxide (CO) and carbon dioxide (CO₂) and may also yield aliphatic and aromatic hydrocarbons and halogenated compounds. Fabricating, cutting, drilling, etc., may produce a class ST-1 dust. Safety precautions and ventilation requirements recommended by NFPA- 68 should be followed.

REACTIVITY DATA

Stability and Incompatibility

Stable under normal use conditions. Hazardous polymerization will not occur.

Avoid contact with alkali, strong mineral acid, or other oxidizers.

Hazardous Decomposition Products

See information in Fire and Explosion Data above.

PERSONAL PROTECTION INFORMATION

Respiratory Protection

Use adequate ventilation to control dust when machining, cutting, drilling, etc.

Cover nose and mouth with mask approved by NIOSH/OSHA.

Eye Protection

Use goggles or safety glasses when machining, cutting, drilling, etc.

Have eye washes available.

Skin Protection

Wear protective gloves, long pants, and long sleeves when machining, cutting, drilling, etc. Wash skin with soap and water after handling. Wash dusty work clothes separately.

CORROSION RESISTANCE:

High resistance to corrosion and oxidation (rust).

Materials are highly durable in all environments and climates.

THERMAL TRANSFER COEFFICIENT:

The technology has high insulating properties and low thermal conductivity (heat transfer coefficient of 0.05 W / Km). Energy consumption for heating and cooling is low.

SOUND TRANSMISSION COEFFICIENT:

The technology has good soundproofing parameters, the Noise Reduction Coefficient (NRC) is 16 dB.

HAZARDS IDENTIFICATION

Threshold Limit Value (TLV)

Fabricating, cutting, drilling, etc. of FRP may produce dust, which should be controlled. Particulate level should not exceed the following OSHA standard: TWA 15 mg/m³ (Total Dust) and TWA 5 mg/m³ (Respirable Particulate).

Primary Route of Entry

Inhalation of or skin contact with dust.

WATERPROOFING:

The **KUUBIC** Technology include precision sealing fins, which makes the technology 100% waterproof, resistant to all types of weather, from deserts with high temperatures, to areas of extreme cold and perpetual snow.

COLORS: White color inside and outside.

Printable facades with any design you want.