

# PAVILION 2025

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www.strohboid.com











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# STROHBOID Pavilion ABOUTUS

## WHY STROHBOID

We at STROHBOID, founded by two young architects in Austria, have a mission: to create sustainable, durable, and high-quality wooden structures that are completely CO2-neutral and regionally sourced. We believe in returning to our roots, embracing natural materials, craftsmanship, and true quality.

You will never find fragile plywood, artificial varnish, or harmful chemicals in our products. Instead, we use carefully selected local materials like LVL wood, excellent insulating rockwool, and the best membranes in the industry. Our wood is never treated with chemicals but is oiled to preserve its natural beauty and features.

Step inside a STROHBOiD structure, and you'll never want to leave. You'll see, feel, and even smell the essence of nature in our unique creations. Experience it for yourself.

Quality made in Austria.



STROHBOID

# strohboid PAVILION

## THE STRONGEST PAVILION ON EARTH

Crafted with a patented design, the STROHBOID Pavilion creates an elevated space for hosting all year round. Its unique architectural structure becomes the visual centerpiece of any setting while blending seamlessly with the surrounding environment. Our expert team provides a comprehensive service package, covering planning, delivery, and installation, guaranteeing minimal maintenance and maximum design impact. The open structure and translucent roofing foster a unique connection with nature, offering guests an inviting atmosphere in any season.



## High recognition value

Due to the unique curved design and the high quality materials

**100% sustainable** CO2-neutrally produced in Austria

Heatable & winterproof Thanks to the integrated heating and cooling system

#### Snow & storm proof

Up to 160 km/h wind gusts (hurricane) and carries up to 190 kg/m<sup>2</sup> of snow

Made for generations We manufacture quality that lasts for decades

Fast assembly Your new outdoor solution is set up in 3 days per unit



# Made for all seasons

The STROHBOID Pavilion provides an immersive outdoor experience that's ideal for any season. From the vibrant ambiance of spring and summer to the serene beauty of autumn and winter, this Pavilion enhances your venue's revenue potential with its year-round functionality. Engineered for comfort and durability, the Pavilion's innovative structure ensures reliability across all climates.

# For all climates

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Whether in tropical, arid, or temperate environments, the STROHBOID Pavilion is built to excel. Its natural, breathable materials and diffusion-open membranes manage humidity while providing a comfortable interior. Fully sealable, it protects guests from extreme conditions, offering a secure, inviting retreat in any weather.

# For all weathers

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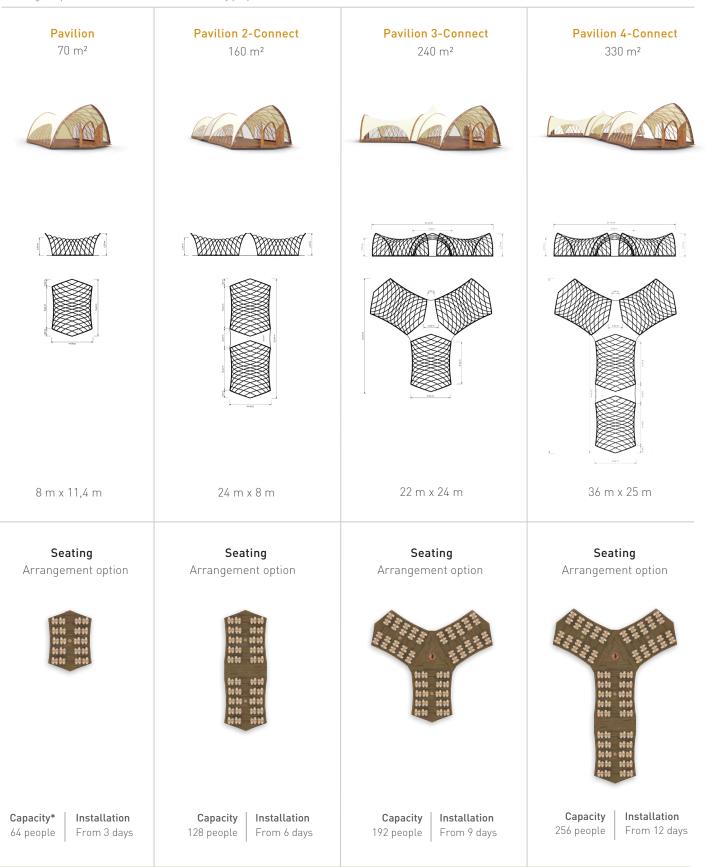
With optional double insulation and integrated climate control, the Pavilion guarantees a pleasant environment, from icy winters to hot summers. Its paraboloid structure, premium materials, and expert craftsmanship support up to 200 kg of snow per square meter and withstand heavy rain and strong winds, merging robust resilience with sophisticated design.



# STROHBOID Pavilion

## VARIATIONS

\*Capacity is given for seating with rectangular tables. Standing, the pavilion can accommodate twice as many people.





# WOODEN STRUCTURE FEATURES

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STROHBOID

# STROHBOID Pavilion WOODEN STRUCTURE

### Wooden lattice shell

The Pavilion's patented wooden lattice grid shell is a lightweight yet robust structure, available in two versions: Light (single) and Strong (double). Made from sustainably sourced Pollmeier Baubuche wood, this innovative design combines exceptional strength with aesthetic appeal. Engineered for optimal stability, the lattice structure ensures the Pavilion stands strong even in extreme weather conditions, offering high load capacity and easy assembly for diverse outdoor applications.

- Patented lightweight lattice grid shell
- Available in two versions: Light (single) and Strong (double)
- B Made from high-quality, sustainably sourced wood
- 🚯 Wind-resistant up to 160 km/h (45 m/s) for the Strong version
- Snow load capacity of up to 190 kg/m<sup>2</sup> for the Strong version
- Rapid assembly and easy transportation

#### Finished Wooden Base Plate

The Pavilion's wooden solid floor is crafted from high-quality wood, treated with natural oils to enhance its durability and appearance. The natural oil treatment not only provides a <u>pleasant scent</u> but also ensures that the wood is resistant to weather and wear, maintaining the Pavilion's elegant and functional interior over time. Each floor is unique, with visible knot holes that add character. Unlike synthetic laminate floors, the wood can be easily sanded and re-oiled to restore its look, making it simple to maintain.

- Finished Wooden Base Plate made from high-quality, naturally treated wood, sourced from Europe
- 🚯 Unique appearance with visible knot holes, adding character
- Durable and weather-resistant for long-lasting use
- Provides a stable, level surface for any event or activity
- 😔 Easy to install and maintain, with minimal environmental impact



















# EXTERIOR FEATURES



## STROHBOID Pavilion EXTERIOR A MEMBRANE LIKE NO OTHER

### High-Tech Membrane

The Pavilion is covered with the industry's best German-made hightech membranes. The outer membrane (Airtext Magic Natur, 240g/m<sup>2</sup>) is waterproof, UV-resistant, heat-blocking, and easy to clean. It creates a distinctive atmosphere inside the Pavilion with light in abundance. Whether under cloudy skies or in strong sunlight, soft, comfortable lighting conditions prevail. In addition to the roof membrane, the Pavilion features side windows that can be opened and fully closing curtains for weather protection.

- 😯 UV-resistant Airtext Magic Natur outer membrane
- Waterproof, windproof and weatherproof
- One of the second s
- 🕒 Easy to maintain, easy to clean
- Extrem longevity and durability
- Translucent cover for distinctive atmosphere

## Pointed Arch Door & Gable Awning

The transparent gable awning spans the Pavilion's entrance, seamlessly connecting the interior with the outdoors. This design creates the illusion of a freestanding door in the open air, allowing the viewer's gaze to flow fluidly from the interior, past the double swing door and out into the surrounding landscape. The gable awning provides shelter from the elements while maintaining an open, light-filled atmosphere that invites entry.

- 🔂 The door is constructed from solid, weather-resistant wood
- Classic pointed arch design for elegance and security
- Treated for durability and long-lasting protection
- 😌 Transparent membrane for maximum light entry
- Provides protection from the elements while maintaining an open, airy feel

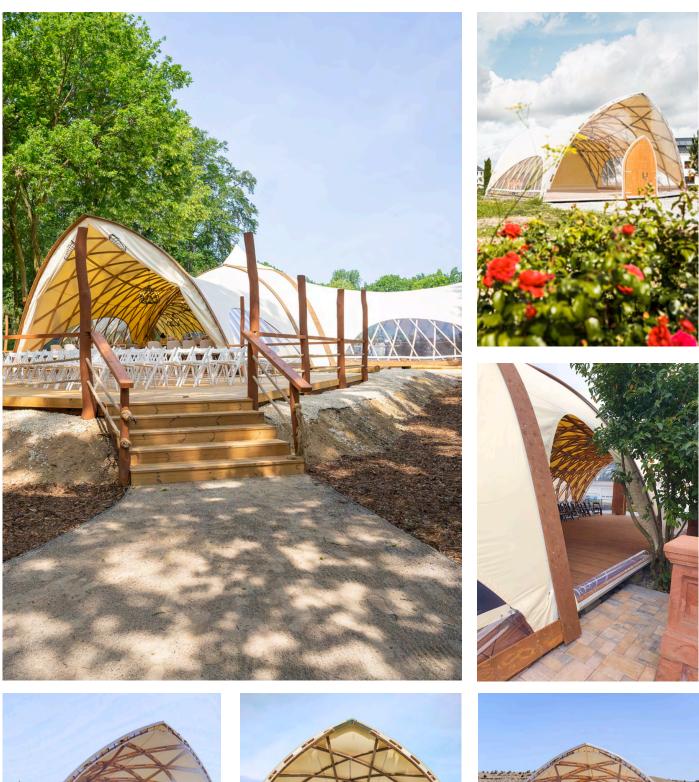




















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# STROHBOID Pavilion PARABOLOID SHAPE

## BENEFITS

At Strohboid, our Pavilions are designed with a unique paraboloid shape, which is not only visually striking but also highly functional. The paraboloid form offers several key advantages that enhance the structural integrity and overall performance of our structures.

## Improved Weather Resistance

Our structures are designed to handle the elements. The curved surface of the paraboloid shape helps to shed rain and snow efficiently. Snow, in particular, slides off easily, reducing snow load and preventing potential structural strain, ensuring yearround durability.

## Superior Wind Resistance

The aerodynamic design of the paraboloid shape reduces wind resistance, allowing wind to flow smoothly over the structure. This minimizes wind pressure on the surface, making our products highly resistant to damage from strong winds and gusts.

### Aesthetic Appeal with Functional Benefits

Our paraboloid design is not just about looks — it's also about function. The elegant curves of the structure provide a modern, sophisticated appearance while also enhancing its structural efficiency. This blend of form and function is a hallmark of Strohboid's design philosophy.

## Maximized Interior Space

The paraboloid shape allows us to maximize the usable interior space within our structures. The increased height at the center creates an open, airy feel, providing guests with a more spacious and comfortable environment, free from the need for additional internal supports.

## **Optimal Load Distribution**

The paraboloid shape is incredibly effective at distributing loads evenly across the structure. Unlike flat or straight designs, the paraboloid naturally channels forces, such as snow and wind loads, down through the structure to the foundation. This even distribution minimizes stress points and ensures that the structure remains strong and stable under various conditions.

## **Enhanced Bending Stiffness**

Structures with a paraboloid shape possess a high degree of bending stiffness. This means that our products are better equipped to resist deformation when subjected to external forces, ensuring that the structure maintains its integrity and shape over time, even under significant load.

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The STROHBOID structure has opened up a whole new world of possibilities for our Zeitreise hotel. Our beautiful wooden pavilion is now the highlight of our location.

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# MATERIALS WE USE

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## STROHBOID Pavilion MATERIALS THE BEST IN THE INDUSTRY

#### Wood structure & floor

STROHBOID exclusively utilizes regionally sourced LVL (Laminated Veneer Lumber) spruce/Kerto solid wood to ensure sustainability and minimal environmental impact. LVL is known for its exceptional strength, durability, and consistency. Its engineered construction process results in a product that is significantly stronger and more uniform than traditional solid wood. LVL wood floors are highly resistant to wear and tear, making them ideal for high-traffic areas. It requires minimal maintenance compared to other flooring materials. Their resistance to moisture and pests makes them easy to clean and maintain over time.

#### 2 Electricity connection

Thanks to its heatability, even colder weather does not spoil the comfort in the STROHBOID pavilion. The inside temperature can be raised by up to 15° C.

#### Weatherproof curtains & roof membrane with side windos

The curtains in our STROHBOID Pavilion is crafted from high-quality, weatherproof materials, providing robust protection against the elements while ensuring comfort inside. They can be securely closed to create a stormproof environment and contribute to natural climate control by supporting airflow and preventing heat and moisture buildup. All components are sustainably sourced and precisely crafted in Europe for longevity and performance. The necessary view is provided by generously sized, transparent windows that extend to the floor of the pavilion. They can be opened and closed in no time with a YKK zipper, offering a high degree of flexibility and ensuring an airy indoor climate even in summer.

#### 4 Transparent gable awning

The transparent gable awning spans the Pavilion's entrance, creating an open, inviting atmosphere. It allows a seamless view from the inside, past the solid wood pointed arch door, and out into the distance. From the outside, it reveals a welcoming ambience that draws you in.

#### 5 Exterior Oil

The wooden components are finished with Lignea Reseda exterior oil from Kubelka, preserving the natural knotholes, which adds to the uniqueness of each product.

#### 6 Foundation & Ballasting

The structure is supported by concrete blocks. To ensure stability, the foundation stones are secured to the substructure with a steel band. For installations requiring higher load capacities, a concrete strip foundation is used for long-term stability.







Profitable investment: ROI within 5 years

18

High ROI



#### Design protection

The iconic STROHBOiD structures are protected



#### Quality made in Austria

Our structures are manufactured in Austria with high quality materials



Sustainable

The production saves 4 tons of CO2 while consuming 2.5 tons



#### Lightweight construction

Lightweight design: maximum stability, minimal materials



Quick assembly The assembly takes 3-5 days, depending on equipment



# ADD-ONS OPTIONAL

Part I

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## STROHBOID Pavilion ADD-ONS OPTIONIAL

# LATTICE GRID SHELL



#### LIGHT

The Pavilion features a single STROHBOiD wooden lightweight construction as a standard, designed for optimal performance with a high strength-to-weight ratio. This structure ensures durability and stability while remaining easy to transport and assemble, making it an ideal choice for various environments.

Ultimate load: 2.000 kg | Snow load: 20 kg/m<sup>2</sup> | Wind load: 100 - 140 km/h





#### STRONG (Add-On)

For enhanced strength and durability, the Pavilion can be upgraded to the "Strong" version, featuring a double STROHBOiD wooden structure that provides significantly more resistance.

Ultimate load: 10.000 kg | Snow load: 160-190 kg/m<sup>2</sup> | Wind load : 140-160 km/h

## INSULATION





#### Polycarbonate (Add-On)

The 8 mm polycarbonate panel provides excellent thermal insulation, UV protection, high durability, and light transmission, ensuring both energy efficiency and a comfortable environment year-round. Its advanced multi-wall structure enhances heat retention while maintaining optimal light diffusion and impact resistance.



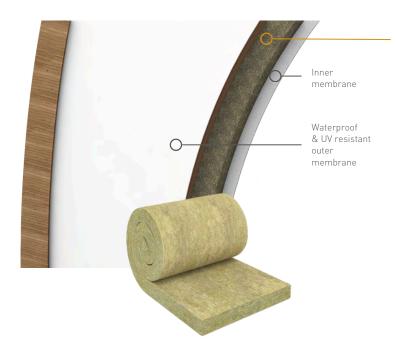
#### Thermal and Acoustic Insulation: (Add-On)

The Pavilion offers an optional high-quality thermal and acoustic insulation package using Rockwool's Varirock® 035 stone wool. This advanced insulation provides exceptional thermal efficiency, keeping the Pavilion warm in winter and cool in summer, while reducing energy costs. Both the roof membrane and solid wood floor are insulated to optimize performance, with an optional double floor insulation for enhanced energy efficiency.



# STROHBOID Pavilion

## HEAT AND NOISE INSULATION (OPTIONAL ADD-ON)



## Thermal insulation roof membrane

Rockwool Varirock® 035

- Heat and sound insulation
- Ourable and recyclable
- 😌 🛛 Fire resistant

The space between the two membrane layers is fitted with special stone wool insulation from Rockwool. Varirock® 035 is noncombustible, with a melt point above 1000°C, making it highly fireresistant. Its thermal conductivity is low (0.035 W/(m·K)), ensuring effective temperature regulation. The material also offers excellent sound absorption, reducing noise transmission and improving privacy. Additionally, Varirock® 035 is moisture-resistant, helping to prevent mold and mildew growth, ensuring a healthy indoor environment.

#### Thermal insulation floor slab

8 cm wood fiber insulation boards STEICOtherm dry (0.037 W/mK)

- 🕒 Made from natural wood fiber
- Heat and cold protection
- 😌 Ecological, environmentally friendly and recyclable

The underside of the solid wood floor is insulated with an 8 cm thick wood fiber insulation board. This provides excellent insulation properties in winter and heat protection in summer.

There is also the option of double floor insulation.



### Ideal temperatures all year round

Temperature comparison with and without insulation

Our Pavilion offers optimum temperatures all year round. The following table shows the minimum and maximum outside temperatures for which the accommodation is suitable with and without insulation.

	Min. temperature	Max. temperature
Without Insulation	5 °C	+45°C
With Insulation	-10 °C	+50°C



# STROHBOID Pavilion POWER CONNECTION

### Recommendations

To ensure your Pavilion is ready for use, electrical connections must be installed before delivery. We're happy to recommend a range of compatible products that will provide optimal heating, cooling, and lighting solutions, helping you create the perfect environment in your Pavilion.



## Infrared Heating

We recommend the Blumfeldt Hothead Infrared Radiant Ceiling Heater (1.5 KW each), which can increase the interior temperature by 12°C (e.g., from +8°C to +20°C). The Pavilion can be equipped with the following number of infrared ceiling heaters:

- Pavilion 70: 8 units = 12 KW Output/Input
- Pavilion 160: 20 units = 30 KW Output/Input
- Pavilion 240: 30 units = 60 KW Output/Input

#### For electrical requirements:

Power Splitter 32A

22

 Extension Cables (4 units) with 3-outlet sockets and the following lengths: 21m, 17m, 14m, 10m.



## Heating and Cooling System

We recommend Multi Split Air Conditioning Units that can both heat and cool, while also regulating humidity for a comfortable indoor environment.

For an optimal solution, we suggest the LG Standard II Multi Split 4x 3.5 KW A++/A+ system. The temperature can be raised by 25°C or lowered by 20°C, ensuring a comfortable indoor climate in temperature ranges from -5°C to +45°C. The system also offers Wi-Fi control via an app.

Here's the setup for different Pavilion sizes:

- Pavilion 70: 2 units = 28 KW Output/7.2 KW Input
- Pavilion 160: 4 units = 56 KW Output/14.4 KW Input
- Pavilion 240: 6 units = 84 KW Output/21.6 KW Input

#### For electrical requirements:

- Power Splitter 32A
- 🕀 4 Double Sockets and a Light Switch
- 80m Cable with various connections
- We recommend the Future Linear Black Matt product line from Bushjaeger, which also includes sockets with integrated USB and USB-C ports.

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# Quality made in Austria

At STROHBOID, we take pride in producing our innovative outdoor structures right here in Austria, within our own production hall in Theresienfeld. By avoiding outsourcing to low-income countries, we ensure that every product is crafted with local expertise, precision, and dedication. Our team of skilled carpenters combines traditional craftsmanship with modern techniques to create durable, sustainable solutions that reflect the highest standards of quality and regional pride.



# STROHBOID Pavilion MANUFACTORY

## QUALITY MADE IN AUSTRIA

In our production hall in Theresienfeld (Austria), the CO2-neutral future takes its beginning. On 2,000 m<sup>2</sup>, well-versed specialists manufacture STROHBOID products and prepare them for outdoor use all over the world. Since 2018, we have been creating manifest symbioses between sustainability, aesthetics and durability. In order to be able to combine these three spheres without compromise, we rely on high-quality materials such as local LVL wood or a high-tech membrane from Germany, which are brought together in our light-flooded production hall.

- High quality down to the last detail
- Professional series production
- Know-how from the region

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• Fast delivery by a trained team











# FUNDAMENTS

25

The foundation is a critical element for the stability and longevity of your Pavilion. At STROHBOID, we offer two foundation options designed to meet your specific needs: the Concrete Strip Foundation for permanent installations and the Concrete Slab Foundation for temporary setups. Both options ensure reliable support, stability, and durability, keeping your Pavilion securely anchored in place, whether it's a long-term installation or a more flexible, temporary solution.

## TEMPORARY USE

The Concrete Slab Foundation offers a flexible and reliable temporary solution, using heavy-duty concrete slabs to anchor the Pavilion. While the Pavilion is not directly anchored into the ground, the slabs provide excellent support and stability for short-term installations. This foundation option is ideal for environments that require mobility or adaptability, maintaining stability even in various weather conditions.



#### Concrete strips

# PERMANENT USE

The Concrete Strip Foundation is ideal for permanent installations, offering strong support by distributing the Pavilion's load across continuous concrete strips. The Pavilion is securely anchored into the ground using a combination of wood and concrete screws, which increases wind resistance and ensures long-term stability. This foundation is perfect for permanent setups, offering enhanced strength against high wind loads and ensuring the structure remains firmly in place.



# PREPERATIONS

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Before your STROHBOID Pavilion arrives, it's essential to prepare the site for a smooth installation process. This includes leveling the ground to create a stable base, applying a layer of gravel for improved drainage, and ensuring clear access for the installation team. Proper preparation will not only facilitate the setup but also contribute to the long-term stability of your Pavilion. Our team will guide you through every step, ensuring your site is perfectly prepared for your new outdoor structure.



STROHBOID Pavilion

# PREPARE YOUR SITE IN 5 STEPS



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# Secure your property and financing

Before installation begins, it's essential to secure your property and ensure that all necessary building permits are in place. Confirm your financing and make sure the site complies with local regulations to avoid any delays later on.

02

01

### Level your installation site

Once the administrative tasks are complete, it's time to focus on your site. Make sure the area where your Pavilion will be installed is properly leveled. This is important for ensuring a stable foundation and preventing future issues with the structure. Carefully level the specific parts of the site where the units will be placed to guarantee proper installation.

03

#### Install electricity connections

To provide your guests with maximum comfort, it's crucial to set up the utility connections for electricity - which will allow you to add heating and cooling systems, such as air conditioning, infrared heating, or lighting, once the Pavilion is set up.

# Gravel the site for a solid foundation

There's no need for complicated surface preparations like concrete or cement. A simple, leveled, compacted and graveled surface is more than enough to support the Pavilion. Ensure the ground is evenly covered with gravel to create a sturdy base for the installation.

# Arrange for equipment and foundations

Order an all-terrain forklift truck to assist in the placement of your Pavilion. Additionally, prepare the foundation. For a temporary solution, you can use concrete block tiles (50x50x5cm), ensuring that you have enough tiles to support the structure securely (details on the product plan)

Ready to make the most out of your venue?

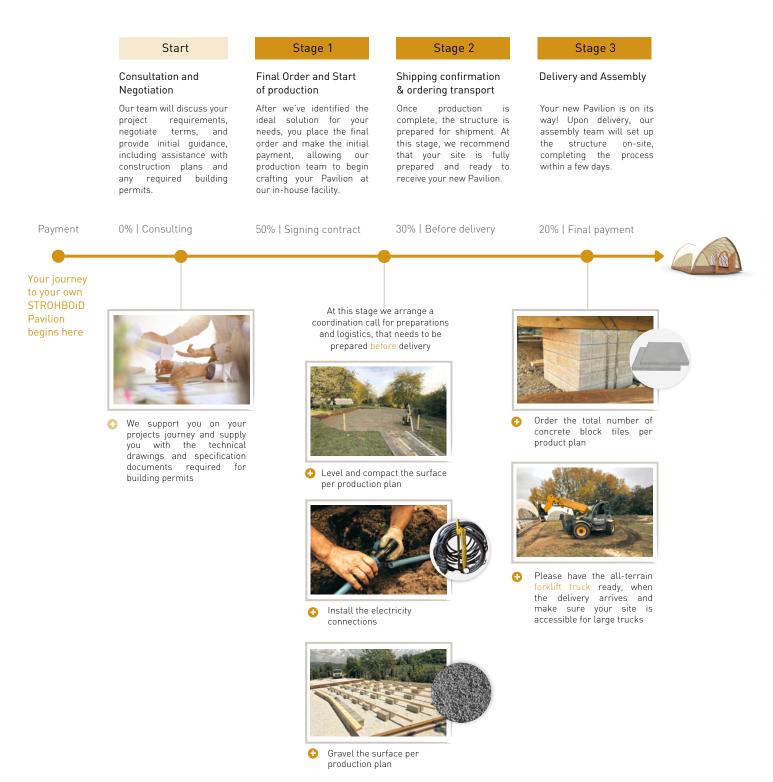


# STROHBOID Pavilion YOUR JOURNEY

HOW TO GET YOUR OWN PAVILION

### Your STROHBOiD delivery and payment Journey

We support your dream project from day 1

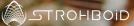


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# PRICES

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Investing in our STROHBOID Pavilion is a long-term opportunity that pays off. With their premium design, durability, and appeal, our pavilions will elevate your business and generate consistent returns over time. To make the investment more accessible, we offer flexible leasing options, allowing you to start earning from your Pavilion without a large upfront cost. Whether you choose to purchase outright or lease, our pavilions are designed to provide exceptional value and performance.



# STROHBOID Pavilion

\*Capacity is given for seating with rectangular tables. Standing, the pavilion can accommodate twice as many people.

Pavilion 70 m²	Pavilion 2-Connect 160 m²	Pavilion 3-Connect 240 m²	Pavilion 4-Connect 330 m <sup>2</sup>
8 m x 11,4 m	24 m x 8 m	22 m x 24 m	36 m x 25 m
Capacity*Installation64 peopleFrom 3 days	CapacityInstallation128 peopleFrom 6 days	CapacityInstallation192 peopleFrom 9 days	CapacityInstallation256 peopleFrom 12 days
Price Installation € <b>59.921</b> € 6.000	Price Installation € 116.920 € 12.000	Price Installation € 185.073 € 18.000	Price Installation € 242.072 € 24.000
With STRONG Add-on	With STRONG Add-on	With STRONG Add-on	With STRONG Add-on
Price   Installation € 79.933   € 6.000	Price   Installation € <b>156.944</b>   € 12.000	Price   Installation € 245.109   € 18.000	Price   Installation € 322.120   € 24.000

Disclaimer: All prices are net, excl. VAT, transportation, additional fees. Prices are valid until December 31, 2025. Contact us for a detailed quote including shipping costs.

More optional Add-ons	<ul> <li>Concrete Anchor - As a permanent solution for more stability</li> <li>Polycarbonate Facade - 8 mm polycarbonate panel</li> <li>Thermal Insulation - For roof membrane and floor slab with Rockwool Varirock® 035, a high-performance stone wool insulation that provides excellent thermal and acoustic properties.</li> </ul>
	<ul> <li>O Tread step - For comfortable entry</li> </ul>



# FAQ FREQUENTLY ASKED QUESTIONS



# STROHBOID Pavilion ANY QUESTIONS LEFT?

### FREQUENTLY ASKED QUESTIONS



#### How sturdy is the Pavilion?

The Pavilion is built with a robust LVL beechwood structure, capable of withstanding wind speeds up to 160 km/h and snow loads of up to 2 meters. Its aerodynamic paraboloid shape further enhances stability against the elements.

#### Can it be used all year round, is it weatherproof?

Absolutely. The Pavilion's premium membrane is waterproof, UVresistant, and designed to withstand heavy winds, rain and even snow, making it ideal for year-round use in any climate.

#### Is the Pavilion insulated?

Yes, the Pavilion can be insulated. We offer an add-on using Rockwool Varirock® 035, a high-performance stone wool insulation that provides excellent thermal and acoustic properties. This insulation helps keep the Pavilion warm in winter and cool in summer while reducing energy consumption. Both the roof membrane and solid wood floor are insulated to enhance energy efficiency, with an optional double floor insulation for improved performance. The acoustic insulation also helps reduce sound transmission, improving privacy within the Pavilion.

#### Will STROHBOiD arrange the installation permits?

STROHBOID will provide the required drawings for the Pavilion? However, the customer is responsible for contacting the local authorities to obtain the necessary permits. As these vary from country to country and region to region.

#### Is the Pavilion fire-resistant?

Yes, the Pavilion is designed with fire-resistant materials, ensuring it meets safety standards for outdoor structures.

#### How should the Pavilion be maintained?

The wood can be easily cleaned with a damp cloth. Wooden elements should be re-oiled periodically based on usage. The membrane and other surfaces can be cleaned with a soft brush and mild soap to maintain their appearance.

#### How should the ground be prepared?

For the installation of the Pavilion, the ground should be properly leveled and compacted to ensure stability. The customer must provide an all-terrain forklift truck for unloading and pipes for electricity connection. Exact details are in the product plan.

#### What foundation options are available?

The Pavilion can be installed with either a concrete strip foundation for permanent setups or a concrete slab foundation for temporary installations. More details on foundation preparation can be found in the product plans.

#### What payment options are available?

Flexible financing options are available, and leasing options can be customized based on your credit rating, with the possibility of no down payment depending on the agreement.

# Is the Pavilion delivered assembled and how long are the delivery times?

It is delivered in parts and assembled on-site by our trained team, ensuring a smooth and efficient installation process. Depending on stock and customization options, delivery can take at least 6 weeks after the down payment is received.





Disclaimer:

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