

# Transparent PC Glamping Dome

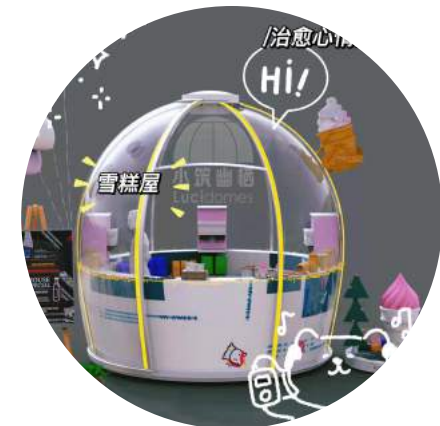
Outdoor luxury hotel or restaurant







We are the **only manufacturer** that can make this 9.0M size PC Dome!





## What's Dreamdomes?

Dreamdomes series is a brand-new characteristic dome house product that we have created. The product structure does not contain a metal supporting frame and has a 360-degree transparent view.

It has a variety of uses, and you can feel the natural scenery of different climates and seasons.



# Main Material



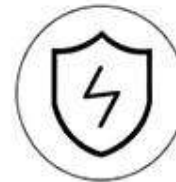
The main part of the 9M dome is made of polycarbonate that imported from Bayer, Germany. Polycarbonate is a tough thermoplastic resin and has the title of "Plastic King". PC material has no toxic substances, has high heat resistance, good toughness and impact strength, high flame resistance, it has a wide range of applications in industry and construction, such as aircraft cabin covers, architectural special-shaped curtain walls, bulletproof glass, explosion-proof shields, etc.



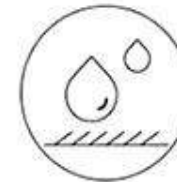
## FEATURES OF PC SHEET



Simple Installation



Carrying Capacity



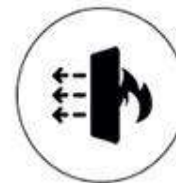
Water Proof



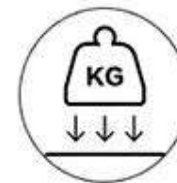
Corrosion Resistance



Sound Insulation



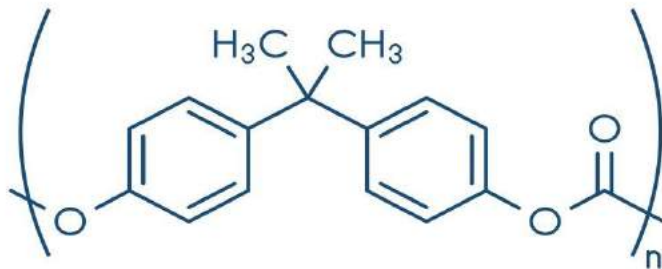
Flame Retardant



Impact Resistance



Not Conduct



polycarbonate

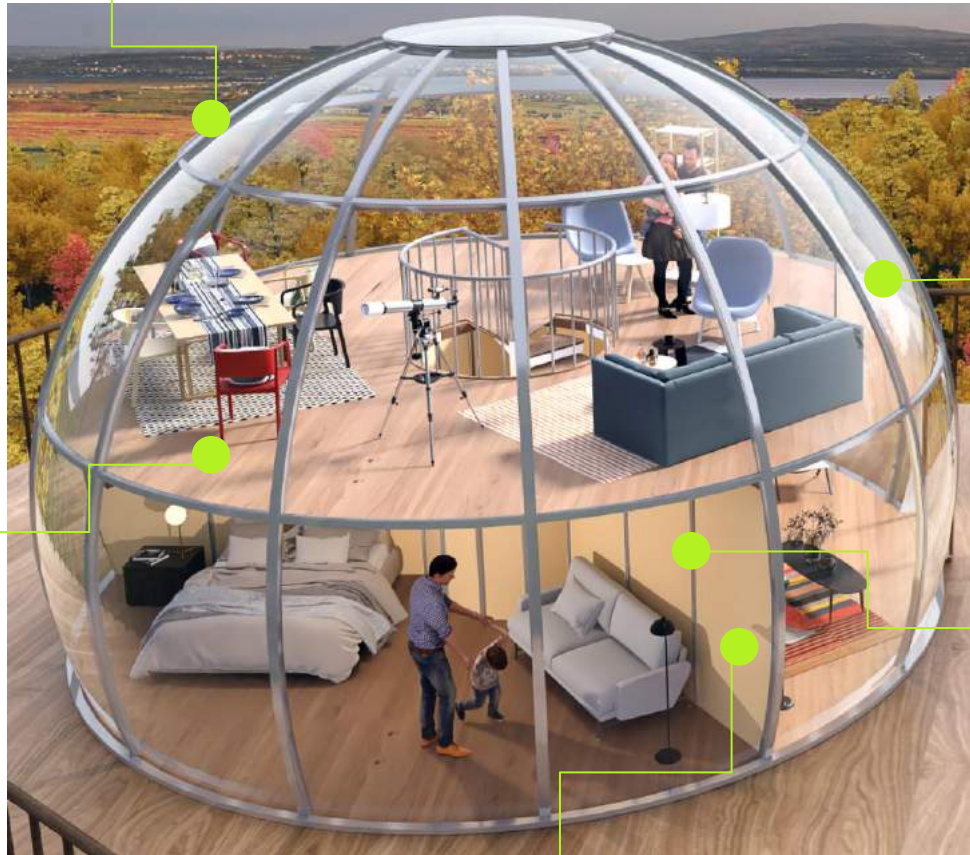


### Aluminum Alloy Frame

All aluminum alloy materials were made with the matte silver anodized treatment. High strength and corrosion resistance.

### Polycarbonate

The material is made of polycarbonate imported from Bayer, Germany. Its strength is about 250 times that of ordinary glass. And it is fireproof B1 grade, non-toxic and odorless.



### The Second Floor

The material is made of Oriented Strand Board. The thickness is about 15mm and can load about 300Kg per square meter.

### Square Tube

The material is made of high quality aluminum alloy. High strength to ensure the stability of the structure.

### Partition

The material is made of Oriented Strand Board. The thickness is about 10mm.



## Transparent

The main dome is made of polycarbonate, it's 360D transparent. So, you can enjoy the beauty, starry-sky, sunrise and sunset without blocking. It's close to nature!

## Privacy Protection

Although the main body is transparent, there is no need to worry about privacy, we can provide high-quality curtains, which can both play a role of shading and protect the privacy of customers.







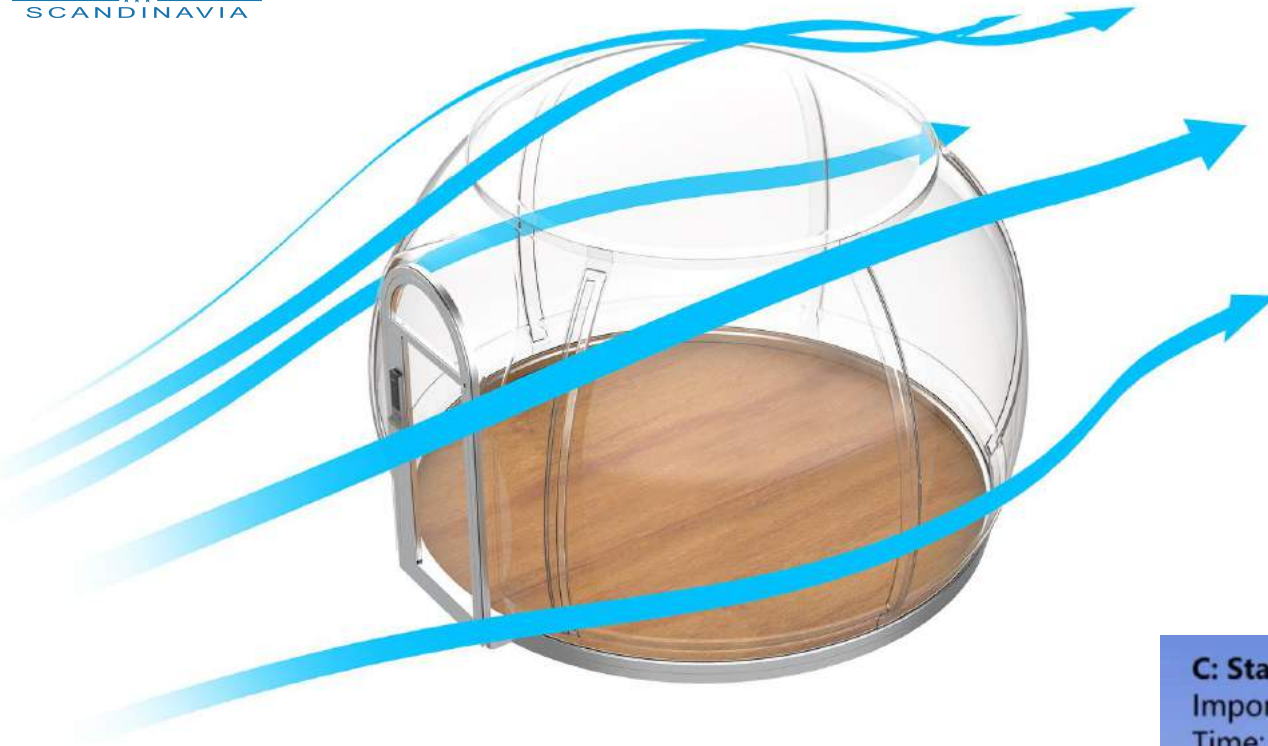
## Stable & Safe

It's different from the ordinary PVC transparent bubble tents on the market, the 9M PC Dome has high impact resistance and good protection performance. It is a very safe shelter when used in the wild.

The impact strength of PC endurance board is 250-300 times that of ordinary glass!



## Wind-Resistance



Thanks to its excellent structure design, it can withstand a wind speed of 42m/s. (Wind Scale of 14)

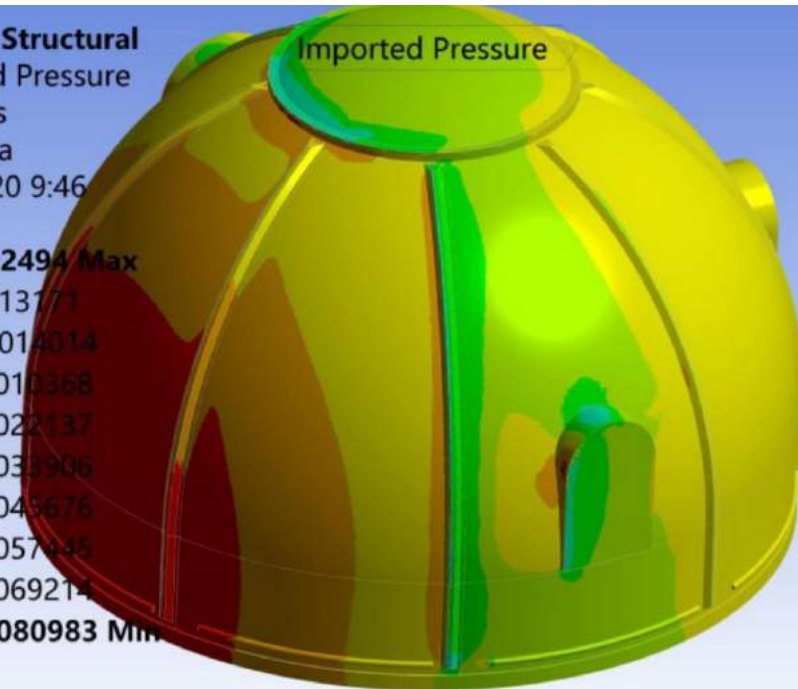


## Snow Load

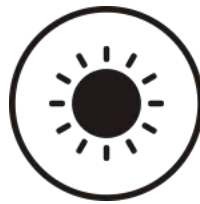
Thanks to its excellent structure design, the maximum snow depth that can be tolerated is 219CM.

**C: Static Structural**  
Imported Pressure  
Time: 1. s  
Unit: MPa  
2021/4/20 9:46

0.002494 Max  
0.0013771  
0.00014014  
-0.0010368  
-0.0022137  
-0.0033906  
-0.0045676  
-0.0057445  
-0.0069214  
-0.0080983 Min







# 100% UV Resistance



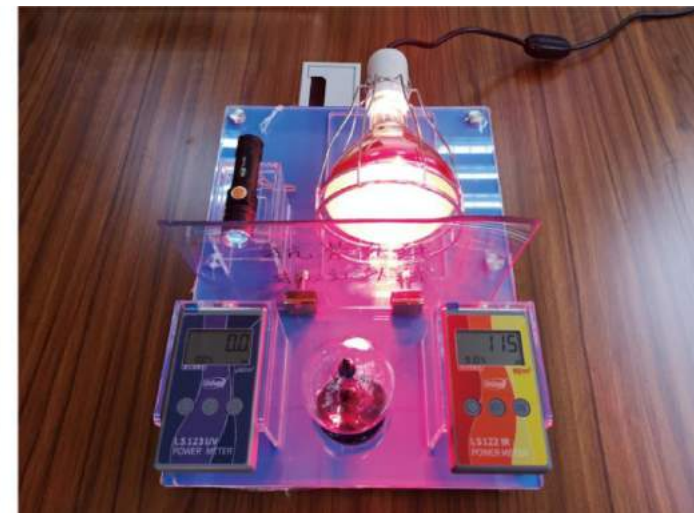
## UV Index

|      |  |
|------|--|
| 1-2  | <p><b>NO PROTECTION REQUIRED</b></p> <p>Unless outdoors for extended periods, or near reflective surfaces such as snow or water.</p>   |
| 3-5  | <p><b>PROTECTION REQUIRED</b></p> <p>Slip on clothing.</p> <p>Slap on sunscreen, use sun protection factor (SPF) 30 for adults and 50 for children.</p> <p>Slap on a wide brimmed hat.</p> <p>Seek shade during midday hours.</p> <p>Slide on sunglasses, wraparound are best.</p> |
| 6-7  | <p><b>EXTRA PROTECTION REQUIRED</b></p> <p>Avoid being outside during midday hours.</p> <p>Make sure you seek shade.</p> <p>Always wear sunscreen and protective clothing i.e. shirt, hat, and sunglasses.</p>   |
| 8-10 | <p><b>EXTRA PROTECTION REQUIRED</b></p> <p>Avoid being outside during midday hours.</p> <p>Make sure you seek shade.</p> <p>Always wear sunscreen and protective clothing i.e. shirt, hat, and sunglasses.</p>   |
| 11+  | <p><b>EXTRA PROTECTION REQUIRED</b></p> <p>Avoid being outside during midday hours.</p> <p>Make sure you seek shade.</p> <p>Always wear sunscreen and protective clothing i.e. shirt, hat, and sunglasses.</p>   |

There is an anti-ultraviolet co-extrusion layer on the surface to prevent the resin from aging and yellowing caused by sunlight and ultraviolet rays. The surface co-extruded layer has chemical bonds to absorb ultraviolet light and convert it into visible light, which has a good stabilizing effect on plant photosynthesis (It is very suitable for protecting valuable artworks and exhibits from UV damage.)

It's 100% UV resistance with double-sided 100µ UV coating,

\* The upgrading version of PC materials can reach 90% infrared resistance performance. The temperature inside a dome can be around 5-7°C difference compared with the standard PC material.





## Flexible Connect

With special connection structure design, different type of domes can be connected by each other, which greatly increases the flexibility of application.

The popular combination models are 3.5M + 2.1M

4.5M + 2.1M

5.3M + 2.1M

4.5M + 5.3M + 2.1M

5.3M + 3.5M + 2.1M

9.0M + 6.0M







# Ventilation & Cooling



**Window and Door:**

The 9.0M Dome comes standard with one door and 8 windows (two floors), and the windows and doors are equipped with screen windows to ensure air ventilation.



**Curtain:**

The product is equipped with specially designed sunshade curtains, which can not only protect privacy, but also have a good sunshade effect.



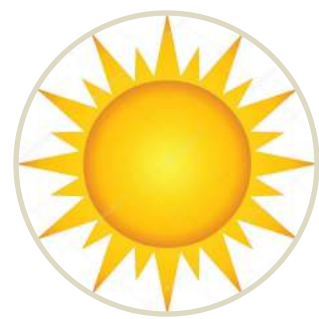
**High Efficiency Exhaust Fan:**

The exhaust fan has a speed control switch, which can control the speed of the fan, and the maximum speed is 2500 rpm. The bottom is designed with anti-mosquito gauze, which can be removed for cleaning inside, and available in AC 110-230V voltage, suitable for accommodation applications and restaurants.



**Artificial Grass or Awning:**

The artificial grass can be added to the side of the PC Dome. It can not only have the effect of heat insulation, but also fit perfectly with some application scenarios



**Infrared Resistance Material:**

With the infrared coating material, which can cut about 90% of infrared rays in sunlight, and has better thermal insulation performance. Compared with the conventional version, the body temperature difference is about 5° °C.

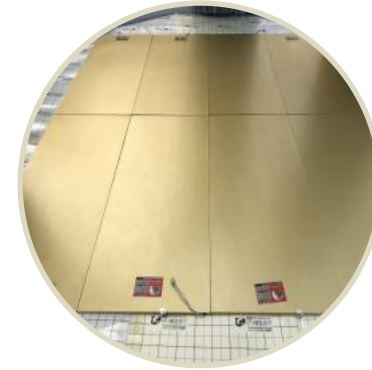


# Heating



## Main Material:

The thermal conductivity (K value) of the PC board is lower than that of ordinary glass and other plastics, and the thermal insulation effect is 7%-25% higher than that of the same glass, and the thermal insulation of the PC board is as high as 49%. Thus, the heat loss is greatly reduced, and it is an environmentally friendly material for buildings with heating equipment.



## Heating System Floor or Fireplace:

We can also provide the heating system floor, it can be connected with each other easily.

The PC material is fireproof B1 grade. So, we can add a fireplace in the dome for heating. The hole for the pipe can be made at the side or on the top of the dome. A silicon ring for the hole can be provided to ensure the waterproof performance.



## Sealing Silicone Strip:

The sealing performance is better which can reduce the energy consumption of indoor air conditioners. Preventing the mosquitoes and dust from entering the splices, which cannot be cleaned.







# Air-Conditioner

The staying experience would be much better if can use an air-conditioner inside of this 9.0M PC Dome!

**Vertical inverter air conditioner is recommended for the 9.0M Dome!**



## The First Floor

### Bedroom 01 (15m<sup>2</sup>)

2.0P air-conditioner: One Piece (4000-5200W)

### Bedroom 02 (12m<sup>2</sup>)

2.0P air-conditioner: One Piece (4000-5200W)

### Livingroom (18m<sup>2</sup>)

3.0P air-conditioner: One Piece (6500-7200W)

## The Second Floor

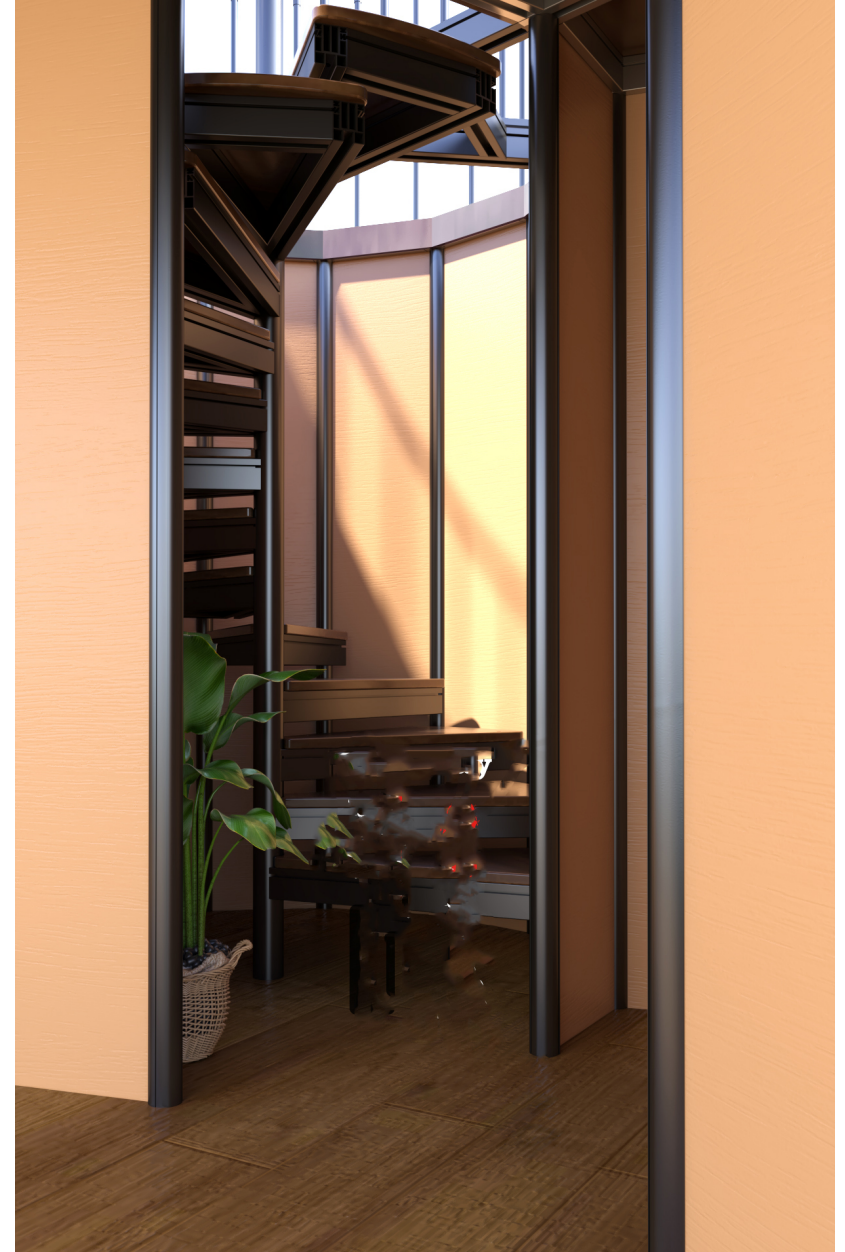
\* The second floor of 9M is usually used as a leisure area without partitions, so it is recommended to use at least one piece of 3P air conditioner.

So, the consumption of the air-conditioner for a 9.0M PC Dome is at least 21,000 - 24,800W)



# Conclusions

1. The D9.0M PC Dome is suitable for use in an environment of  $-25^{\circ}\text{C} \sim +45^{\circ}\text{C}$ .
2. The staying experience would be much better if can use an air-conditioner inside.
3. The temperature inside of the dome can be maintained at  $25^{\circ}\text{C}$  with an air-conditioner turned on for an hour when the outdoor temperature around  $-10^{\circ}\text{C}$ .
4. The temperature inside of the dome can be maintained at around  $22^{\circ}\text{C}$  with an air-conditioner turned on for one hour when the outdoor temperature is around  $35^{\circ}\text{C}$ .
5. The temperature inside of a 9.0M dome with the infrared resistance material is about  $5-7^{\circ}\text{C}$  lower compared with the standard UV resistance PC material.
6. This 9.0M dome is available with the design of one and two floors based on your applications. The first floor can be made with the design for 30-32 people restaurants and meeting room or outdoor hotels with two bedrooms, one living room and washroom and shower room. The second floor is usually used as a leisure area without partitions!





APPLICATION



It can be widely used for glamping, outdoor hotels, restaurants, greenhouses, offices, etc!



**Thank You!**

