Characteristics

Domes are unique, frameless geodesic structures made of moulded fiberglass panels offering an affordable, quickly erected room, small dwelling or shelter space with great durability and flexibility.

The domes can be assembled and taken down repeatedly if required. The panels are pre-drilled and threaded for ease of construction. Panels are attached to each other with rustproof nylon zytel nuts, bolts and watertight gaskets. One size dome is available with a diameter of 6.1 metres (20ft). The height of the dome at the centre is 3.57metres (12ft). This space provides a total floor area of 29 square metres, with a total weight of 544kg (1,200lbs). The Global Dome is made of 1/8th inch (3.1mm), fibreglass panels with an exterior gel coat that minimises maintenance to beyond an occasional hose-down.

All domes are rustproof, waterproof and provide excellent shelter from all natural elements including cyclone and hurricane winds. Domes can be made in any colour or with any pattern design and two or more connected together to make dome modules for various needs.

ASIAN DRAGON
International Corporation

EVERYTHING UNDER THE SUN

ASIAN DRAGON

SPECIAL SHAPE / ENVIRONMENT FRIENDLY / EXPANDABLE / HURRICANE & EARTHQUAKE PROOF / ANTI CORROSION & ANTI RUST

shelter

Domes are widely used as:

Carports, hotels, motel, kiosks, information or display booths, offices, sentry boxes, guard house, instant shops, toilet and shower blocks, villas, warehouses, workshops, plant or farm house, refugee housing, worker camps, labor camps, instant housing, mobile homes, refugee accommodation, advertising mobiles, administration offices, animal shelters, bars, cafes, beach & hills hotel, big & small office, bus shelters, car parking control shed, chemical factory sheds, class rooms, mobile communications centres, coffee shops, cold storage, childcare, computer rooms, cottages, caravan camping housing, domestic violence refuges, earthquake shelters, emergency shelters, factory sheds, farm worker accommodation, forestry huts, franchise outlets, freezer rooms, frp roofing, garden sheds, dome tents, Government offices, green houses, generator housing, hamburger shops, hatcheries, hobby rooms, homeless accommodation, home theatres, house boats, holiday homes, emergency hospitals, hunting lodges, ice cream parlors, Information kiosks, lodging area, media centres, military shelters, medical and dental centres, music or artist studios, outdoor storage sheds, parking lot offices, petrol pump sheds, police control points, PUF insulated cabin, pump stations, railway platform offices, restaurants, resort cabins, retail stores, retirement homes, rental homes, site offices, snow shelters and accommodation, sports ground kiosks and change rooms, souvenir shops, storage facilities, storage sheds, swimming pool changing sheds, temporary shelters, VIP lounges, vetinary clinics, university student accommodation, mobile workshops, club accommodation, scout and school accommodation.

Domes are a great substitution for used shipping container housing, flat packed shipping container house, wooden cabin, wooden houses, folded container house, light weight steel structure house, EPS compound sandwich panel houses.

ASIAN DRAGON
International Corporation

EVERYTHING UNDER THE SUN

Product description

Diameter	6M
Height	3.57M
Area	29㎡
Total Weight	550KG
Basic configuration	1门、2 1 door and 2 windows
Insulation	Excellent
Anti-wind	15 grade
Quake proof	10 grade
Labor	3 persons
Time of installation	3 hours
Color	customised
Shipping	8 sets/40HQ

COMPARISON

Item Name	Container house	FRP Dome house
Picture		
Size	6.058*2.438*2.591M 12.192*2.438*2.591M 6.058*2.438*2.591M Or 12.192*2.438*2.591M	6.1M(20ft); 3.57M(12ft) Diameter:6.1M(20ft); Height of top center:3.57M(12ft)
Area	20ft(14 Sqm) or 40ft(28 Sqm)	29 Sqm
Weight	1.7T / 3.4T	550KG
Material	Painted galvanized steel with EPS	FRP, environmental protection
Color	Customized	Customized
Assemble	2 workers in 1 day, with crane, electrical	3 workers in three hours, without crane, electrical
Warranty	1 year	3 years
Life Time	Max 20 years	More than 50 years
Maintenance	Easy to rust,paint removed,corrosion	Antirust,Corrosion resistant,easy clean
Anti-wind	9 Grade	15 Grade
Quake-proof	5 Grade	10 Grade
temperature	-50℃ ~ +50℃ suitable temperature: -50℃ ~ +50℃	-50℃ ~ +70℃ suitable temperature: -50℃ ~ +70℃
Shipping cost	1 for one container	6-8 sets/ 40HQ
Easy transportation	NO	YES

ASIAN DRAGON

FAQ

Asian Dragon International Corporation

EVERYTHING UNDER THE SUN

1 How is the dome assembled?

The dome can sit free-standing on flat ground assisted by ground anchoring, such as earth screws.
This is usually for short term periods. For longer term use the domes are anchored down with dynabolts on a foundation such as an existing hard surface, concrete slab, stabilized earth floor, timber deck or flat platform. If required, internal flooring can then be added. The panels bolt together using a couple of basic tools and any dome can be put together on a pre-prepared foundation by 2-3 untrained people in 2-5 hours.

2 What features do the domes have?

Each standard dome has 2 standard sized, sliding , double glazed windows, one door and an option of full length, door-sized lattice window . Each window panel provides an interior useful ledge, level wall space inside. The full length window and the door fit into the specially moulded door panel and a blank second door mould panel allows for a 2nd full length window or a 2nd door to be added later for access or is used to connect another dome. Doors or windows for extra domes can be ordered or be sourced locally and fitted. Interconnected door passages can be used to joined and create a cluster of domes for any need with carpenters building passageways and tunnels between them if required.

3 What other design /modification techniques work?

The domes can be interconnected via the extra door moulds to create multiple spaces. In some cases a tunnel has been built by owners joining and connecting domes with covered walkways.
Other options include creating bunkers, earth covered shelters and covering the dome with climbing plants. The waterproof panels will withstand these options along with similar concepts to change the look and texture of the dome. Solar panels can be added.

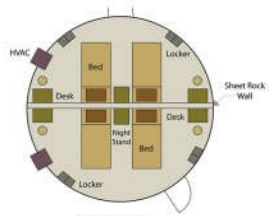
4 What about interior fit-outs?

The customer can choose any option inside they wish. This may include having one large open space without separations, creating interior timber walls or a simpler interior partitioning, blinds, curtains or fabrics suspended from wiring. Owners have applied a render to the inside of the panels to change the texture and colour of the dome inside. Others have created a timber lining inside or used soft fabrics and curtains. It can be as simple or as refined as needed according to your preference, budget and imagination.

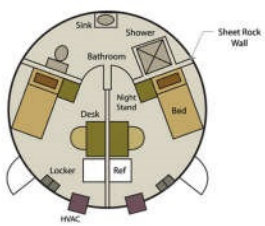
5 Can I the dome come in different colours?

The domes can be coloured any colour or artistic mural / design before or after erecting. Adhesive stickers, logos or other design requirements

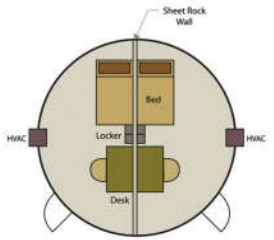
INTERIOR DESIGN

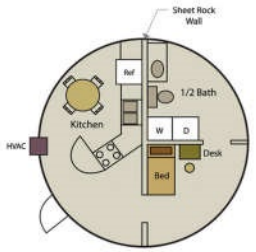


4 Person Layout



2 Person Layout





2 Person Layout

UNLIMITED DIY

CHOOSE YOUR FAVORITE COLOR!

FAQ

6 How are the panels transported and stored?

A dome can be carried on one large trailer or in the back of a large Ute/small pick-up truck. In larger numbers they can be packed and moved in shipping containers and even air-dropped into remote locations. The dome kit comes in its own sturdy wooden crate which can be reused over and over again.

7 How are domes used?

Being highly versatile and relocatable, the domes have a variety of applications that allow them to be used wherever shelter is needed. They are used commercially and privately as accommodation and living spaces, as offices, storage and any special need.
Applications include workers accommodation, crisis shelter, rural accommodation, urban house extensions, teenage retreats, tourist accommodation, alpine ski-resorts and factory / commercial offices. They even make a useful addition to urban roof-tops on buildings. Companies have used them for trade promotions and workers accommodation, the Red Cross for medical stations, the US Army and Navy use them for troop quarters and communications entities to protect electrical equipment in remote areas, farmers for workers housing and mining companies for living quarters. They have also been the foundation for entire Dome Villages in Los Angeles other parts of USA and Canada, acting as crisis accommodation and transitional housing for the homeless community, domestic violence refuges and as affordable retirement accommodation and are a versatile, cost- effective solution for these and any other needs.

8 Do the domes require insulation?

In short, it comes down to the location, climate, the application, budget, shading and other variables. The panels are a thin layer of fiberglass which provides a basic level insulation value. Where required, insulation can be added in a number of ways. Firstly, various polyurethane foam insulation products are available. Contractors offer this service and some offer a more cost-effective DIY kit. The foam can be applied on the outside or inside of the dome.
A render can be applied to the interior or exterior of the dome applied which is also an effective insulation, but users should discuss any plan with a render expert. Alternatively, the interior walls can have insulation materials applied such as astro foil fitted to the dome panels which can be left as is, or covered for aesthetic purposes by either simple fabric, timber or any other covering. A factory insulation kit is avaiialble. In cold climate conditions, just like other shelters and houses, heating can be provided by a number of systems ranging from electric or gas to combustion wood fires or pellet stoves that can be flued through a hole in the blank door panel. The size and circular nature of the domes make them easy and highly efficient to heat, because the dome shape causes air to continuously circulate.
A suitable insulated hole can be cut into a panel to accommodate the flue system. This will also work for ventilation systems or skylights.
In hot climates, it may like other dwellings, necessitate a cooling system like a fan or small air conditioner being essential. A ventilation solution such as an air extractor/solar vent can also be effective at replacing warm air with a cooler breeze.

WHERE PEOPLE CAN ARRIVE,
WHERE THE DOME CAN BE BUILT.
A PLACE TO CALL HOME

FAQ

9 How can the domes be fitted with plumbing, electricals, kitchens, bathrooms etc?

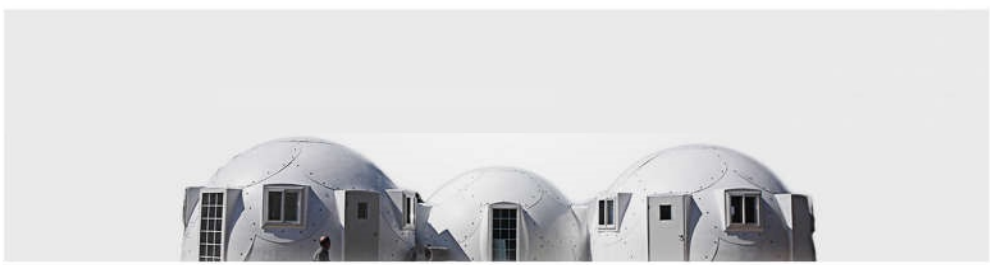
The domes are mostly erected on a concrete or stabilized earth slab, timber deck or platform of some type. As construction starts or proceeds, plumbing and wiring requirements can be fed up through the flooring or pre-placed in the concrete.
In addition, holes can, if needed, be drilled into the panels.
Some dome owners' fit small kitchens into their domes using fixed benches. Others use tables, sinks and removable furniture to create a clever, efficient kitchen of some sort as one that can be dismantled if needed. Bathrooms can be built into the dome and or sited outside the dome on the raised timber deck or slab. We can provide 'modular' bathroom units. They are one single fibreglass shell complete with shower, toilet and vanity that arrives either flat packed or on a small truck and is then assembled, plugged in and brought into operation.

10 Can anything be added to the dome?

In the extra blank door mould - a door of the same size can be fitted or a full length window of any type.
In fact a number of things could be used in the door or window moulds. Holes can be cut into the closed panels and resealed to accommodate fitted objects, lights, ceiling fans etc. Walls can be decorated in various ways like the dome in the photo above. Domes can be tinted in any colour or design and temporary adhesive stickers and banners can also be applied.

11 How durable are the domes?

The durability of fiberglass ensures that the domes can withstand long term extreme weather conditions. Few domes if any have reached their shelf life to test their age limit, however they are expected to last approx 50 years.
Panel damage can be easily fixed and repaired and individual replacement panels can be sourced if required.



PLUMBING / ELECTRICALS / KITCHENS / BATHROOMS

ASIAN DRAGON