

The Triangle House



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Typical case

The advantages of triangle house

1. Combines the outdoor experience of camping with the tranquility of hotel and homestay.

2. Comfortable

3. Double-layer structure makes full use of space

4. Triangle is stable and firm against with strong wind.



5. Suitable for lovers' travel, family travel or friends' travel

6. Emphasis on integration with nature

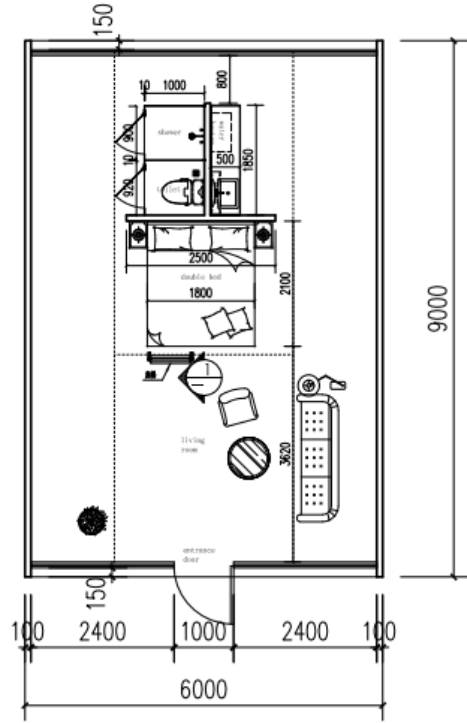
Triangle House-68 sqm



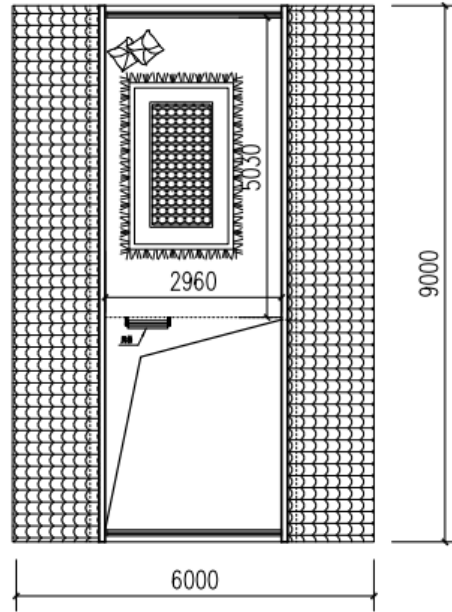
Big Triangle Shape House-68 sqm

■ Loading: 1*40HQ can load 1 sets, 2*4HQ can load 3sets

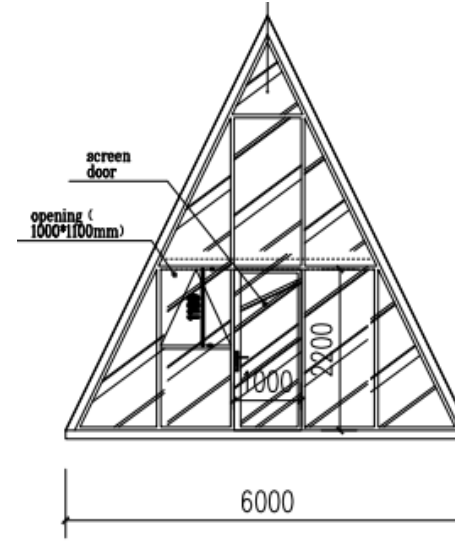
Design plan-68sqm



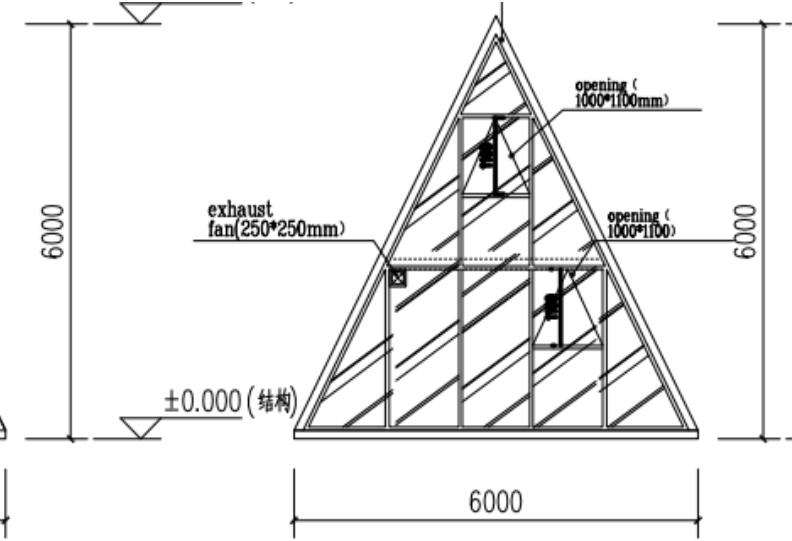
Ground floor plan



First floor plan



Front View



Back view

External dimensions:

6000 (W) *9000 (L) *5500 (H)

Roof Type:

Pitched roof with natural drainage system

Number of Floors: 2 floors

Building area: 68m²

Designing Life-span: 20 years

Floor loading: 2.0KN/m²

Roof loading: 0.5KN/m²

Wind loading:

0.45KN/m²

Snow loading:

0.5KN/m²

Triangle house-68 sqm



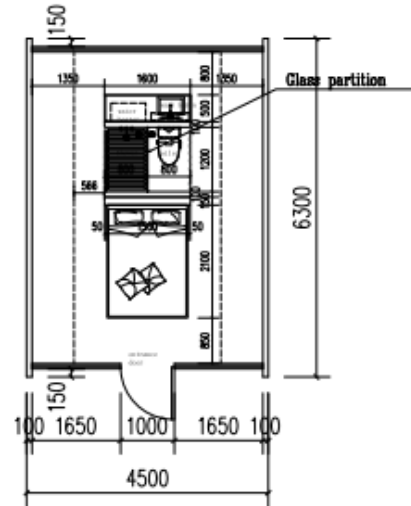
Triangle House-29 sqm



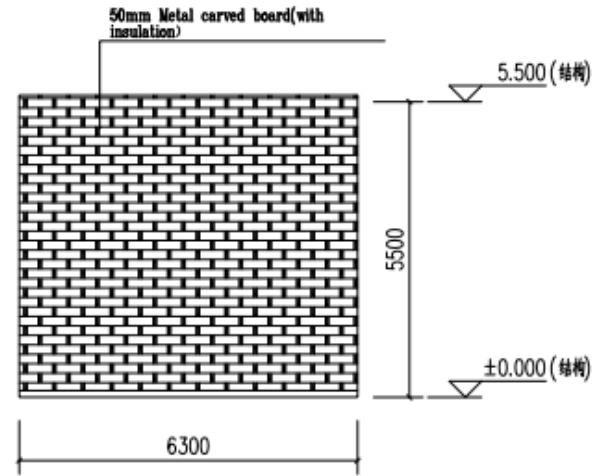
Triangle House-29 sqm

■ Loading: 1*40HQ can load 2 sets

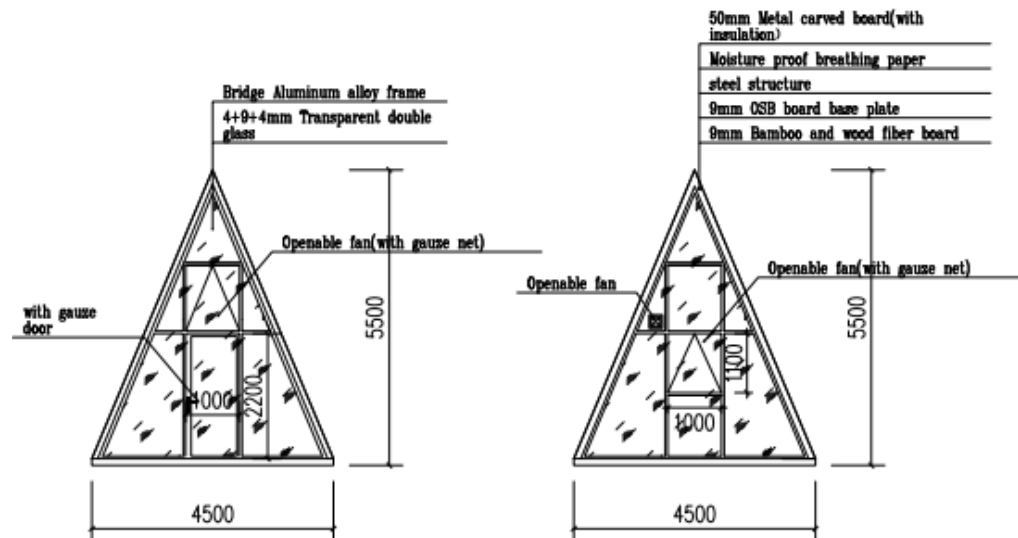
Design plan-29 sqm



Ground floor plan



Side view



External dimensions:

4500 (W) * 6500 (L) * 5500 (H)

Roof Type:

Pitched roof with natural drainage system

Number of Floors: 1 floor

Building area: 29.25m²

Designing Life-span: 20 years

Floor loading: 2.0KN/m²

Roof loading: 0.5KN/m²

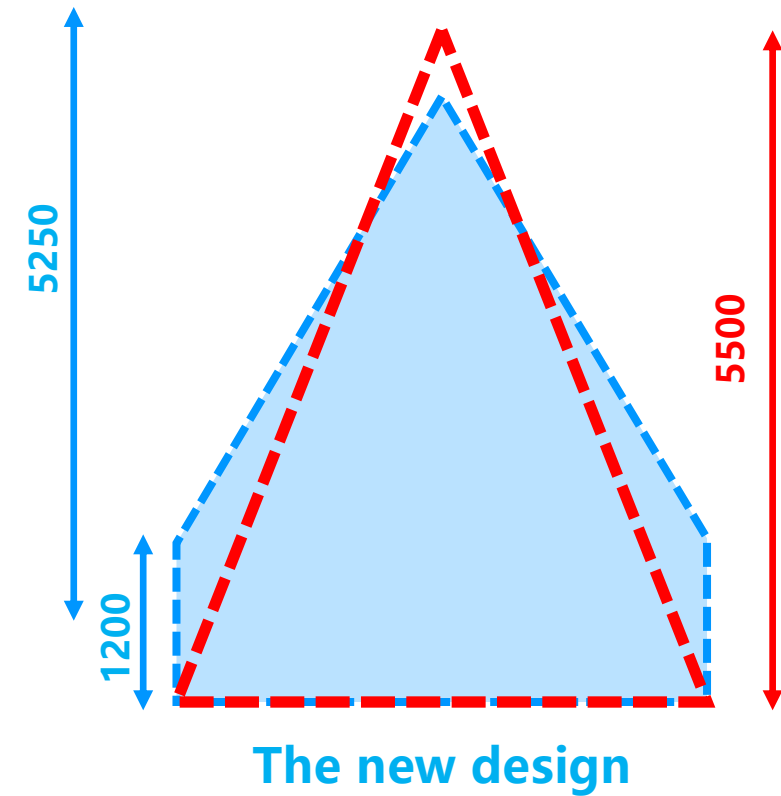
Wind loading: 0.45KN/m²

Snow loading: 0.5KN/m²

Triangle house-29 sqm



The new design

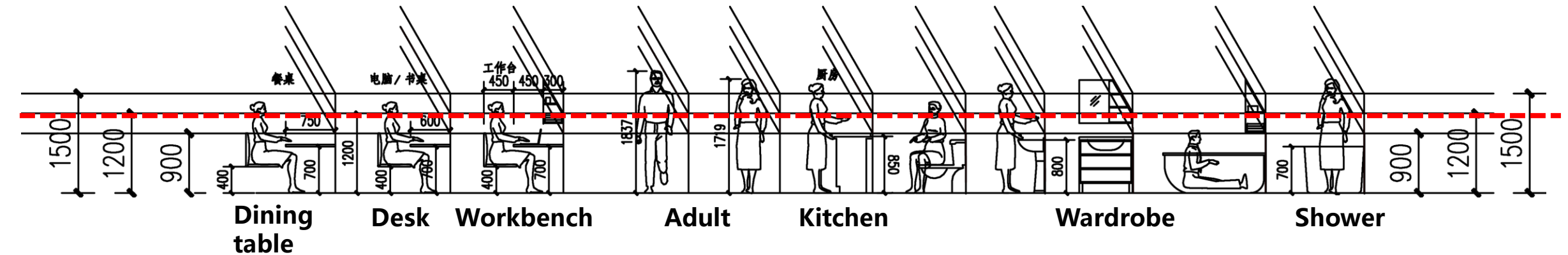


Design Ideas:

Increased space utilisation

The height is reduced by 250mm to ensure normal use while reducing cost and transport volume;

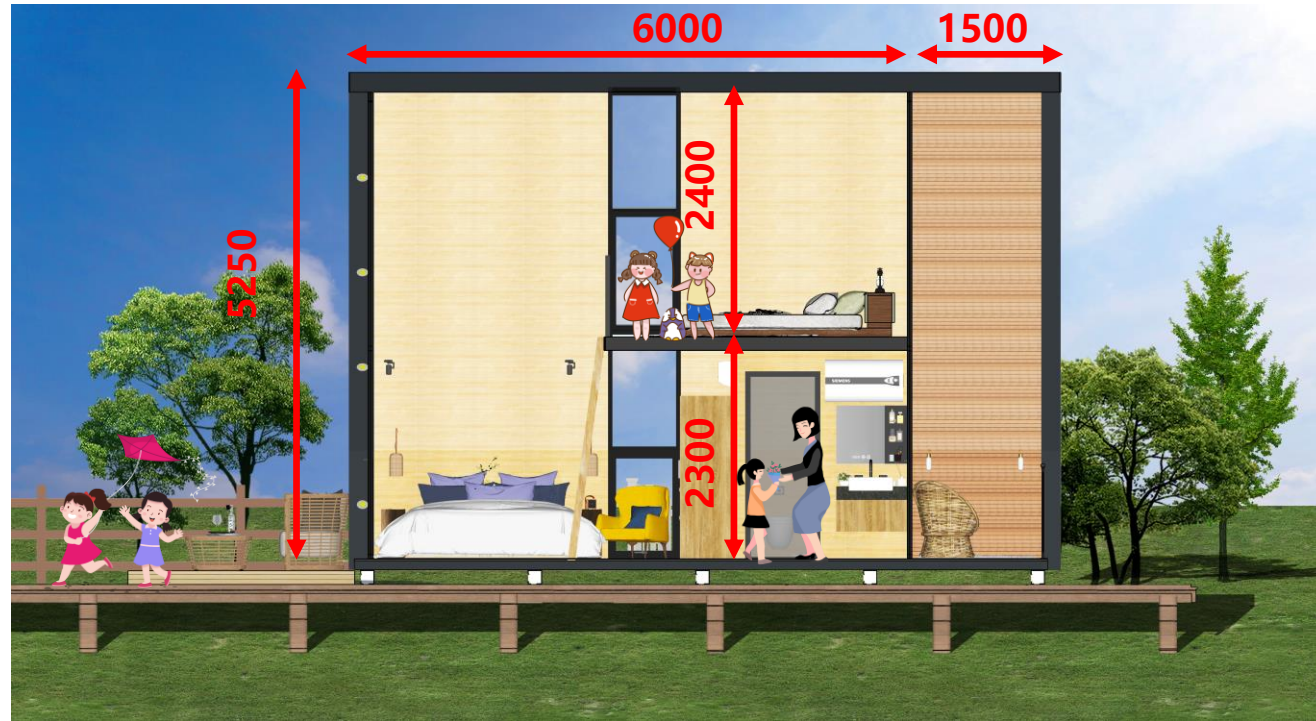
The 1200mm vertical wall meets the needs of use in all scenarios, while retaining the sense of experience



Design idea:

Ground floor: parental residence (emphasising interaction with the outdoor environment)

First floor: children's residence (adds to the experience), while ensuring that adults do not touch the roof.



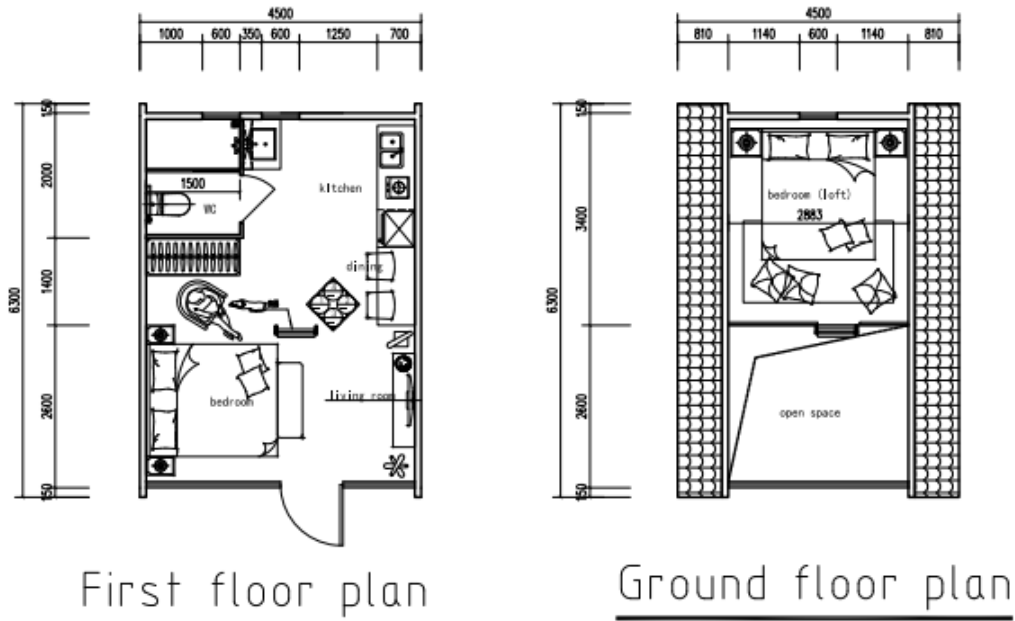
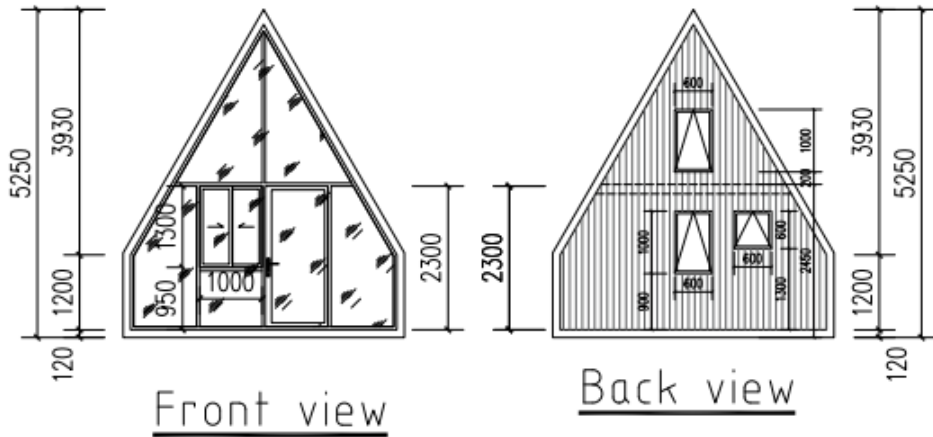
Triangle House-38 sqm



Triangle House-38 sqm

■ Loading: 1*40HQ can load 2 sets

Design plan-38 sqm



External dimensions:

4500 (W) * 6500 (L) * 5500 (H) -Ground floor

2820 (W) * 3400 (L)- First floor

Roof Type:

Pitched roof with natural drainage system

Number of Floors: 2 floor

Building area: 38m²

Designing Life-span: 20 years

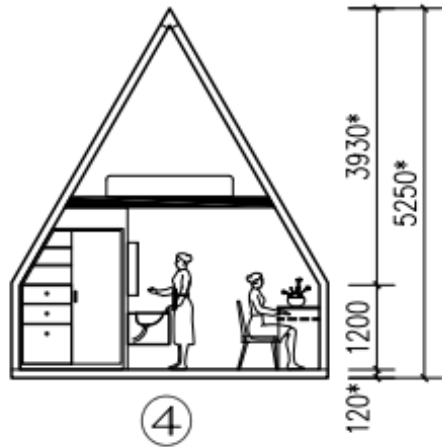
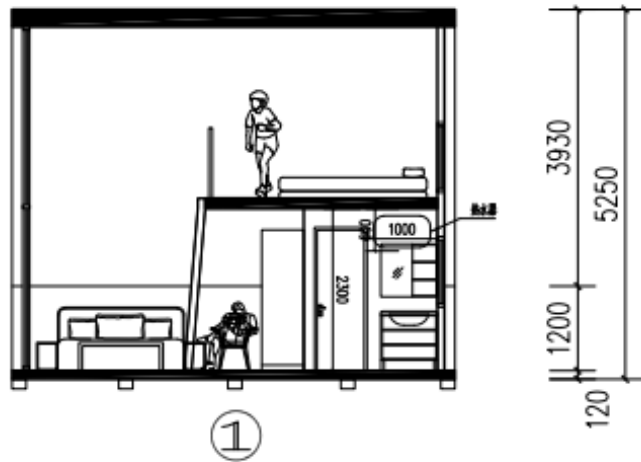
Floor loading: 2.0KN/m²

Roof loading: 0.5KN/m²

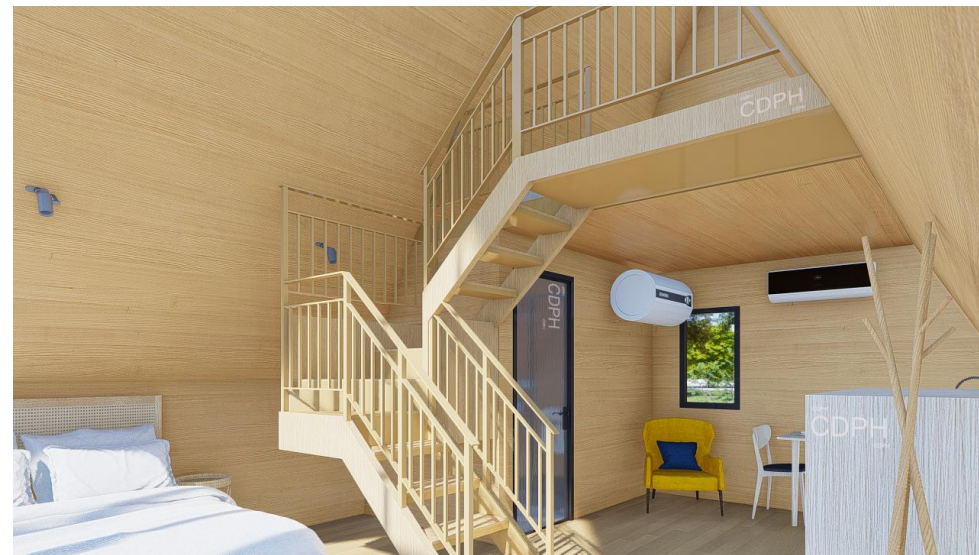
Wind loading: 0.45KN/m²

Snow loading: 0.5KN/m²

Triangle house-38 sqm



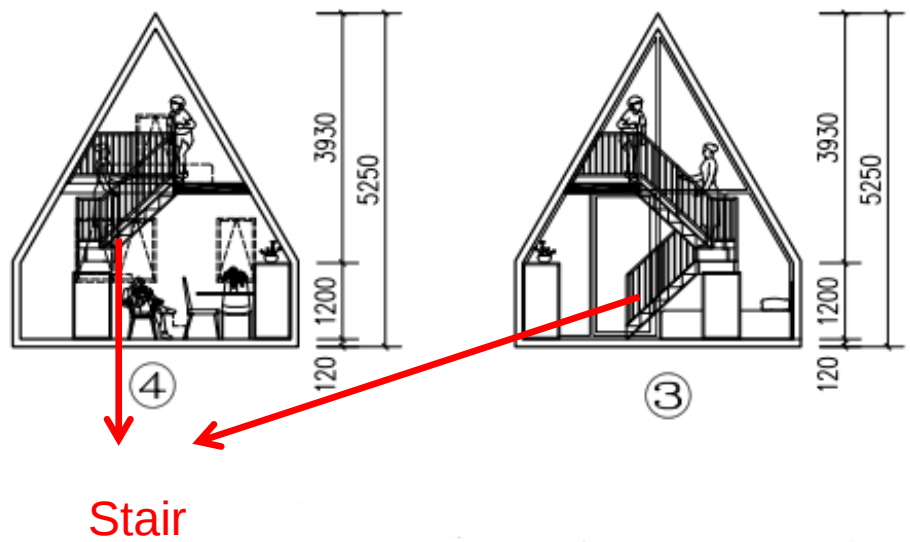
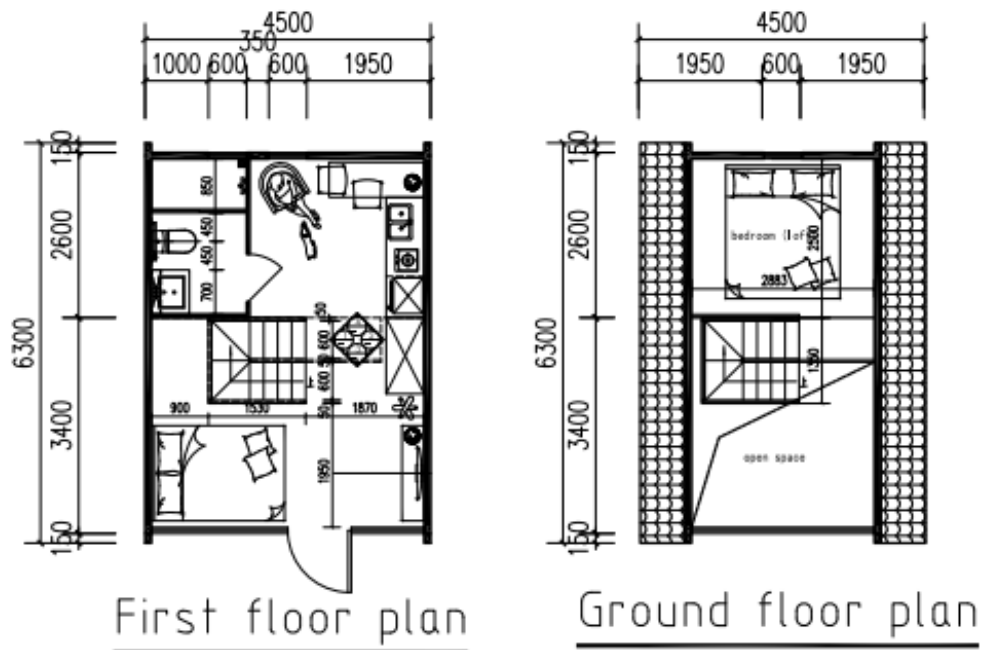
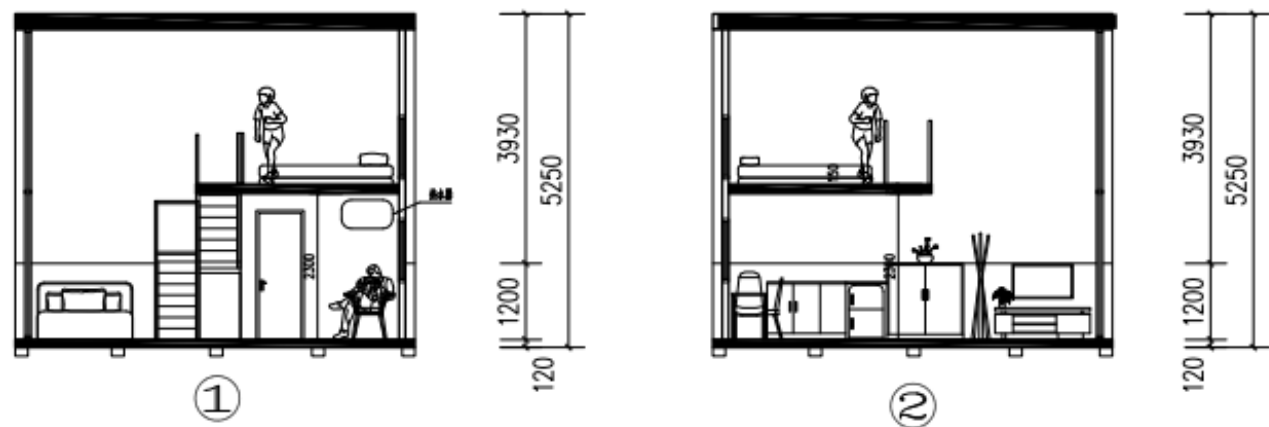
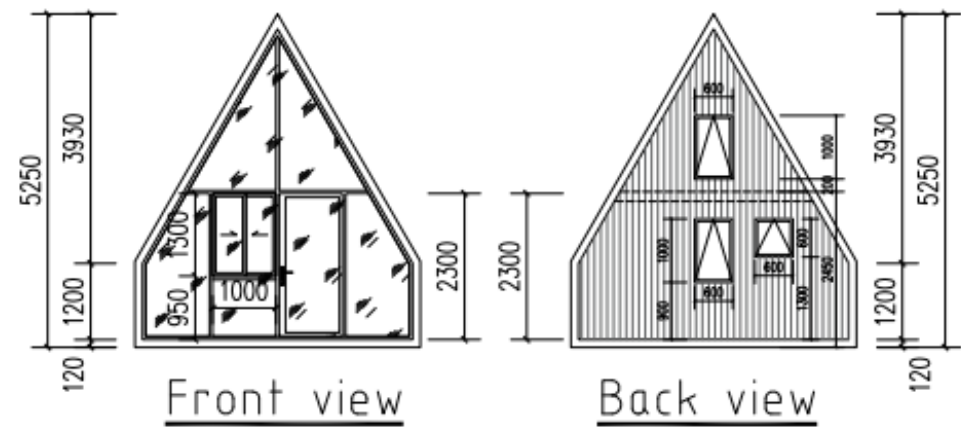
Triangle House-35 sqm (A)



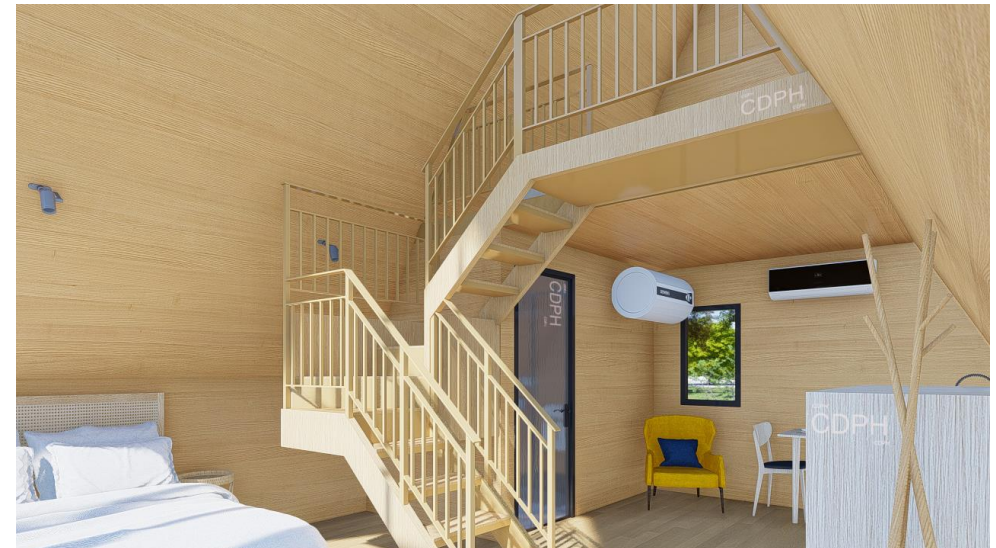
Triangle House-35 sqm-A

■ Loading: 1*40HQ can load 1 set.

Design plan-35 sqm—A



Triangle house-35 sqm—A



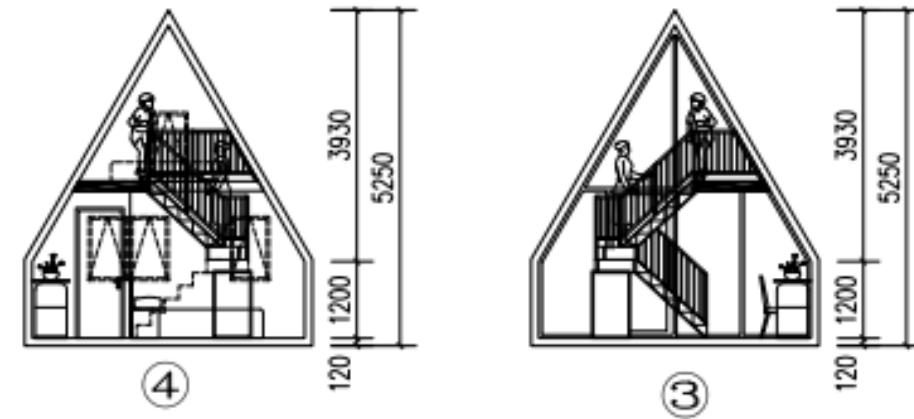
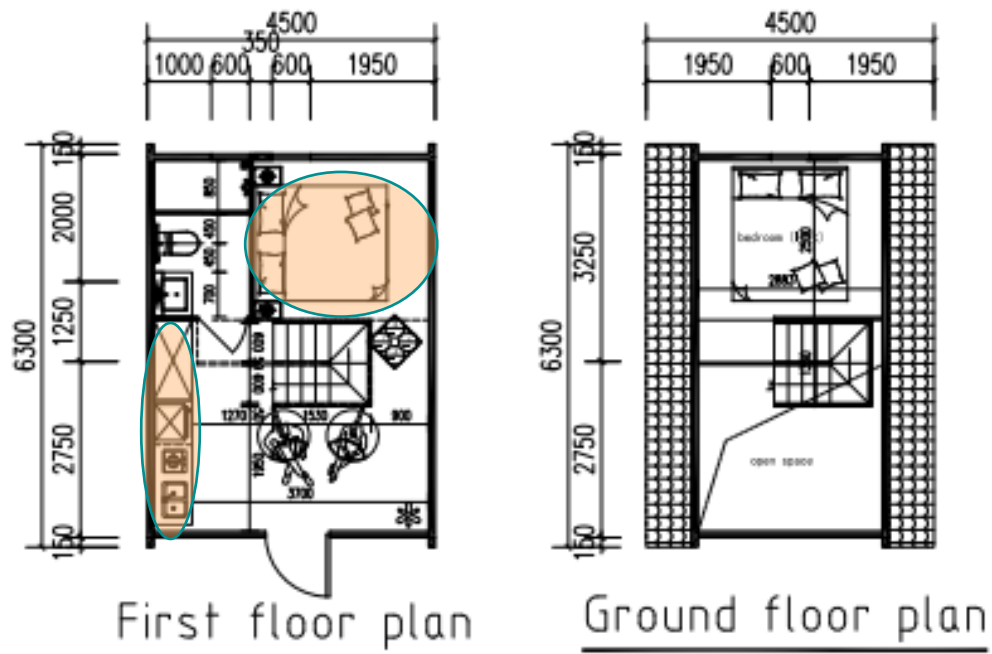
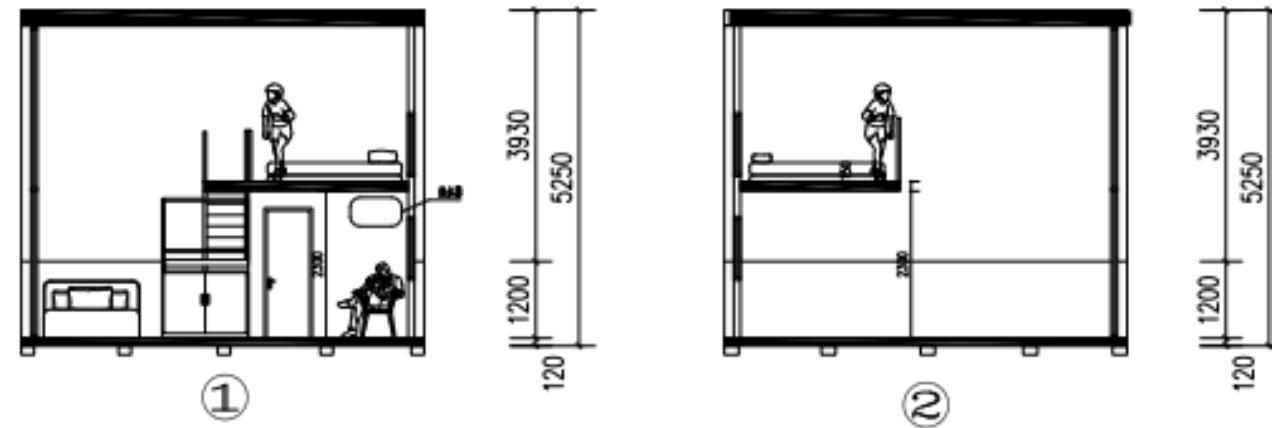
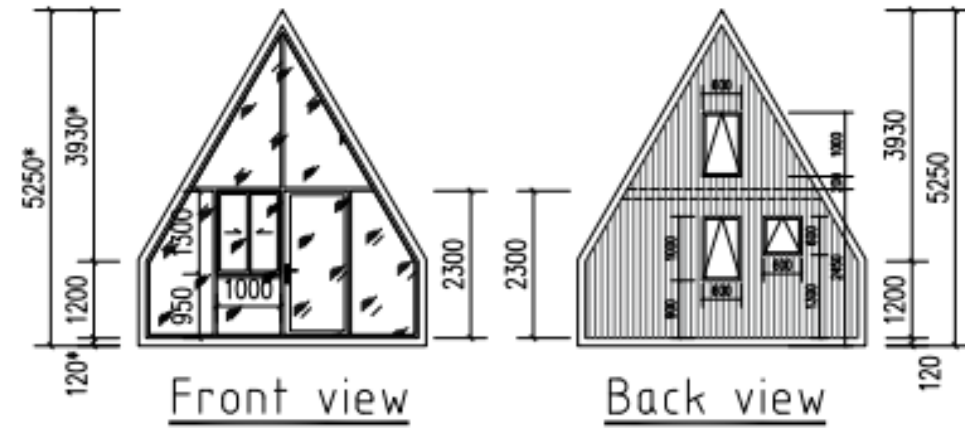
Triangle House-35 sqm (B)



Triangle House-35 sqm-B

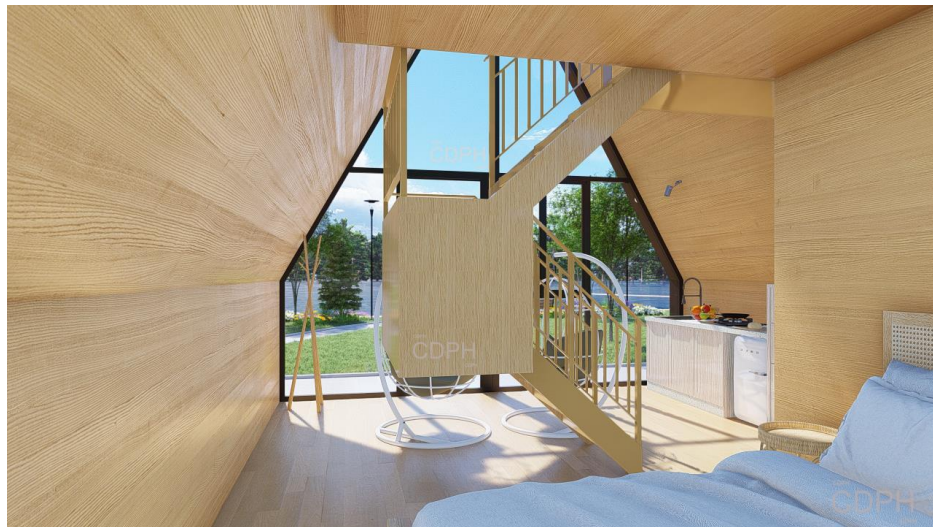
- Loading: 1*40HQ can load 1 set.

Design plan-35 sqm—B



The difference between A and B: the swapping of bedroom and kitchen positions

Triangle house-35 sqm—B



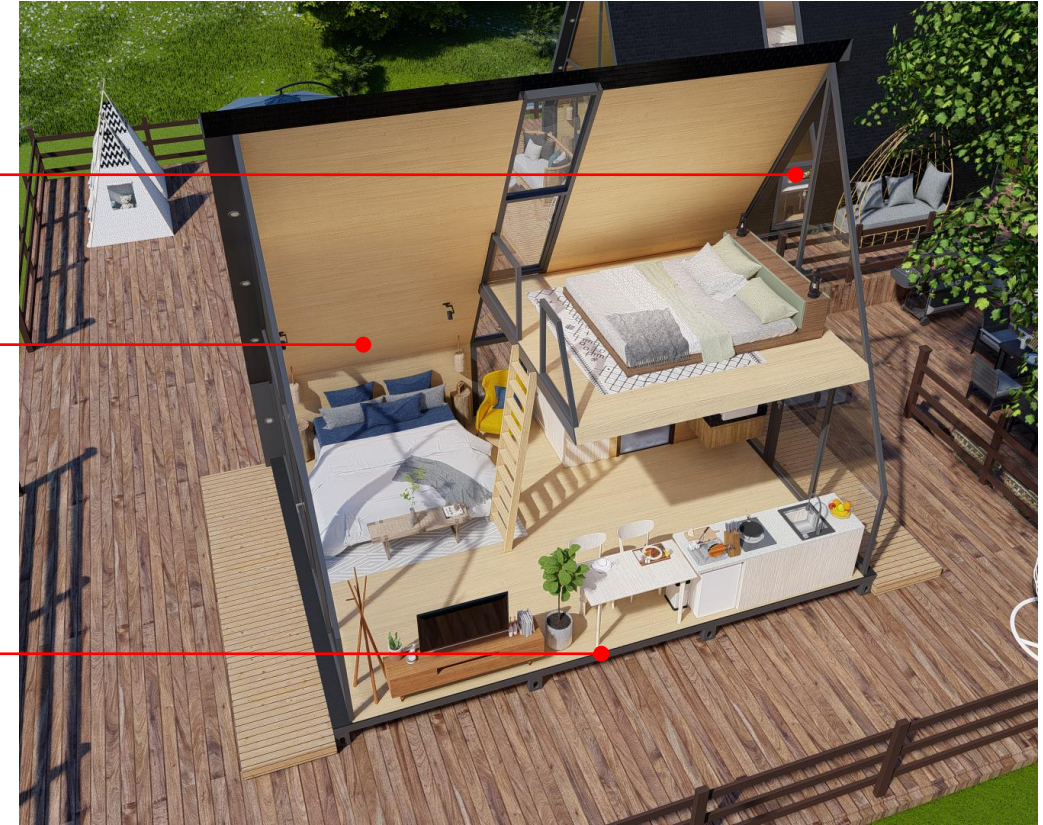
Triangular house component



**1.Exterior
protection**

**2.Interior
decoration**

**3.Main
structure**



Triangular house component



Exterior protection
Roof, glass window

Triangular house component

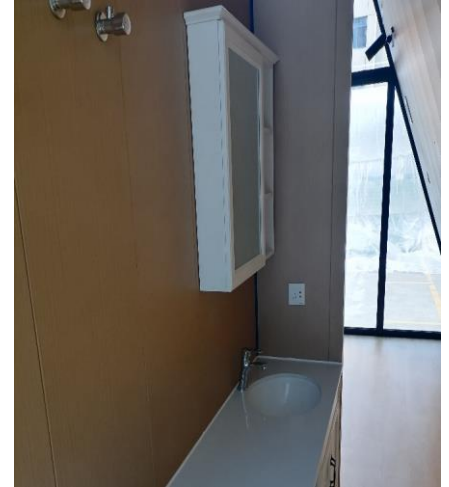
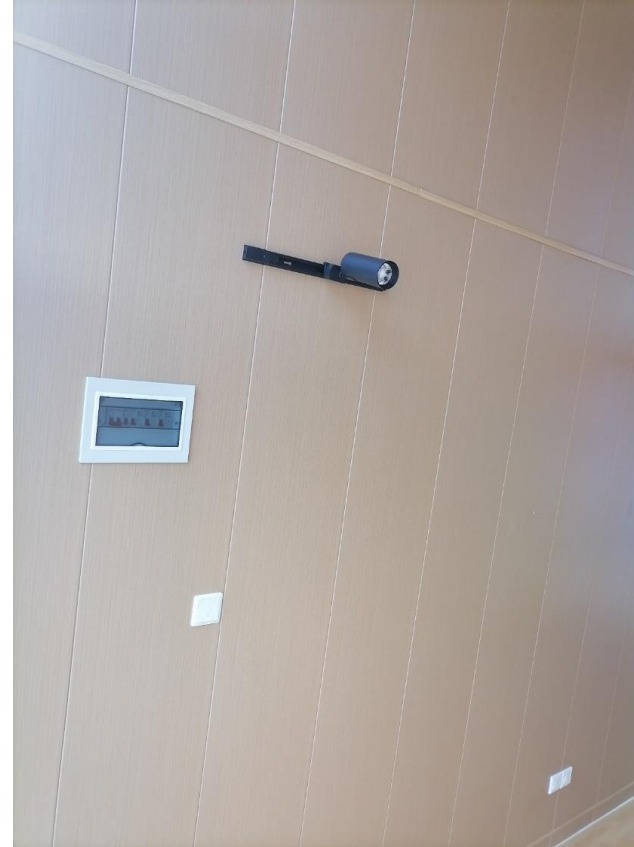
Interior decoration



Cement board, PVC carpet



OSB



Bamboo and wood fiber board, Socket, Switch, Lamps, Wire, Sanitary Wares & Bathroom

Triangular house component



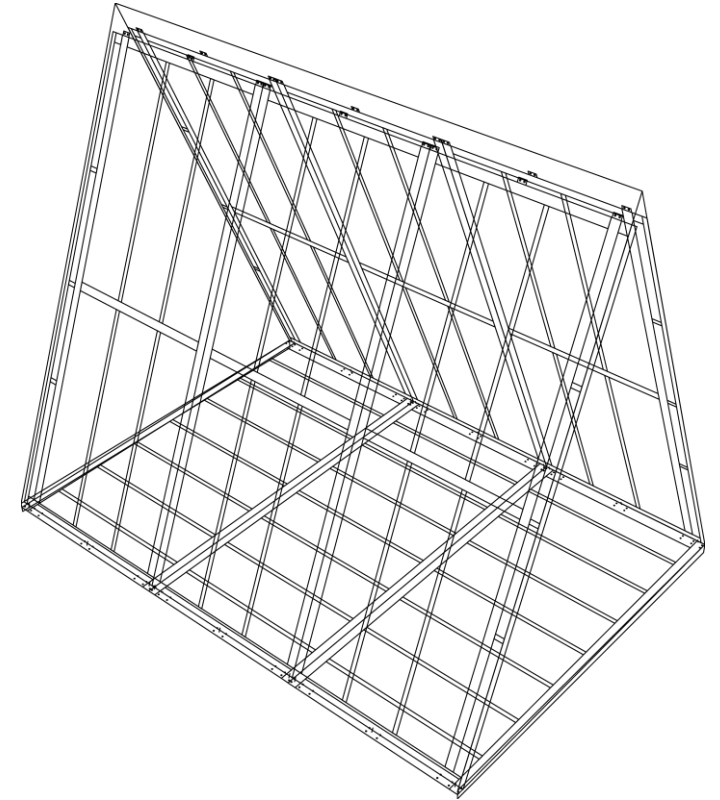
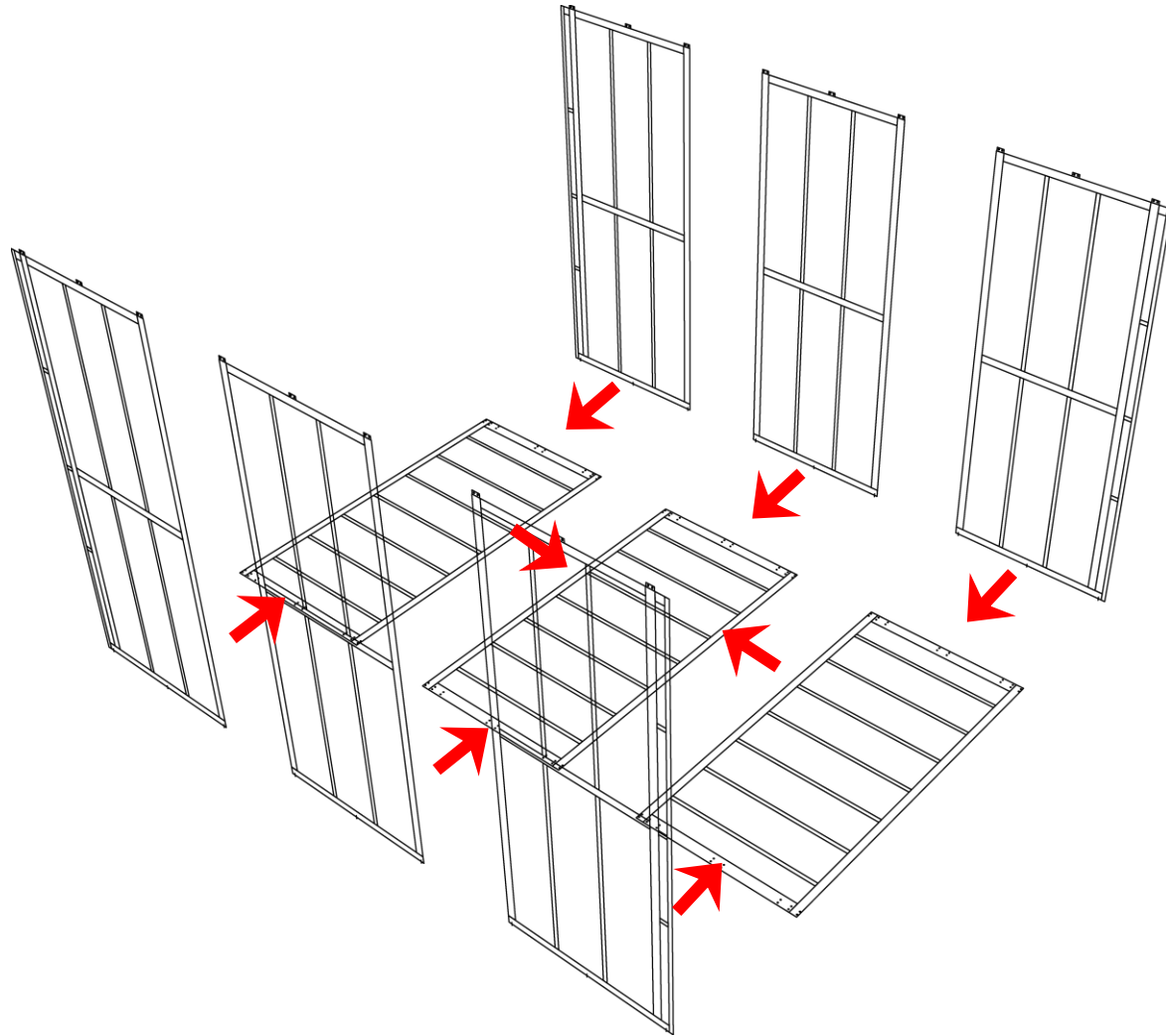
1 frame combination
(1 floor frame+2 roof frames)



3 frame combinations
(3 floor frames+6 roof frames)

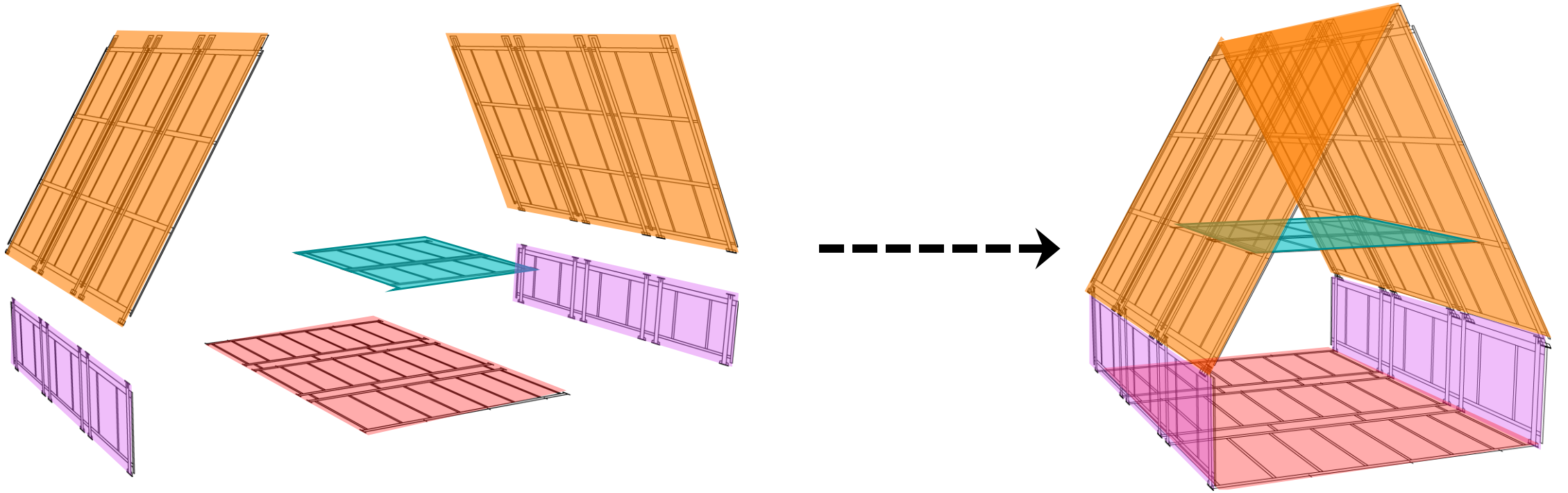
Main structure
Floor frame and Roof frame

Triangular house component



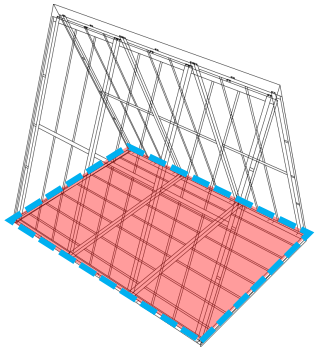
**Triangle House Complete
Framework-29 sqm & 68 sqm**

Triangular house component



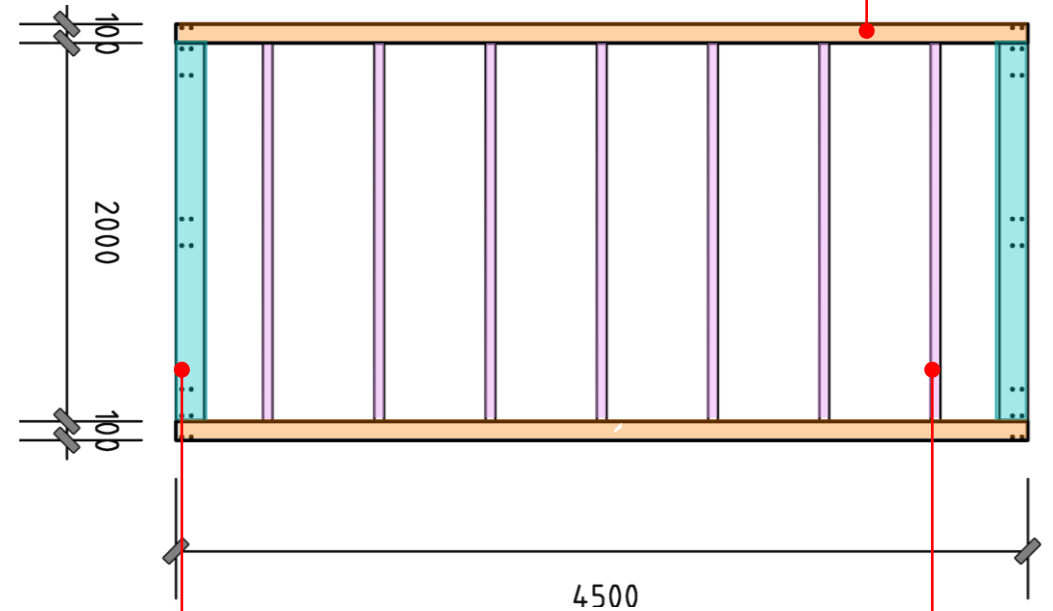
**Triangle House Complete
Framework-35&38 sqm**

The floor frame



Floor main beam-B

Size: 100*100*3mm,
galvanized square steel pipe



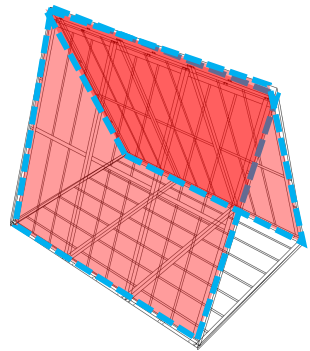
Floor main beam-A

Size: 150*100*3mm,
galvanized square steel pipe

Floor purlin

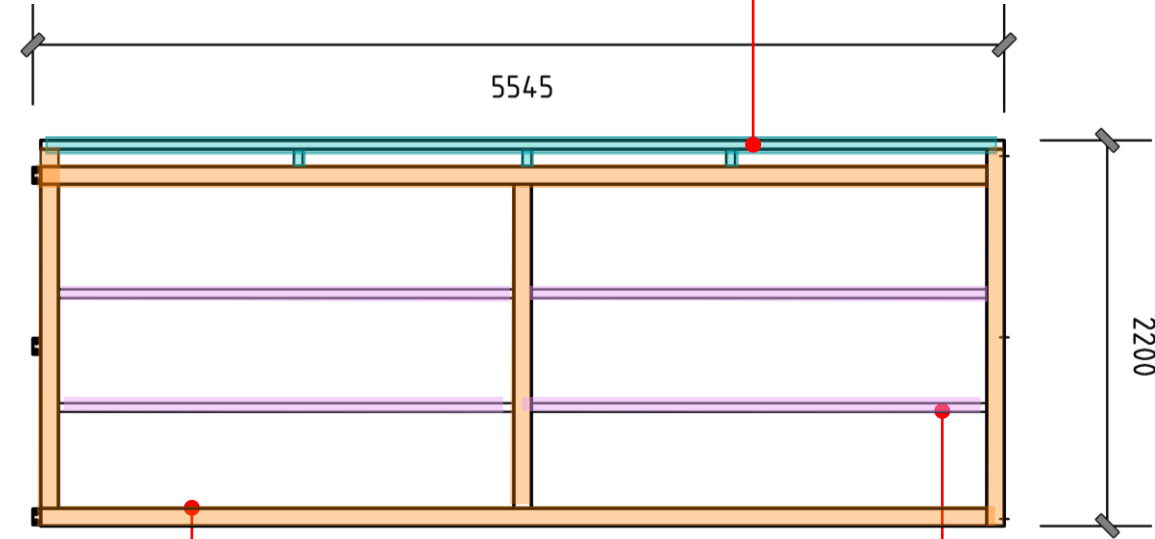
Size: 50*100*2mm, galvanized
square steel pipe

The roof material



Roof main beam-B

Size: 100*50*2mm,
galvanized square steel
pipe



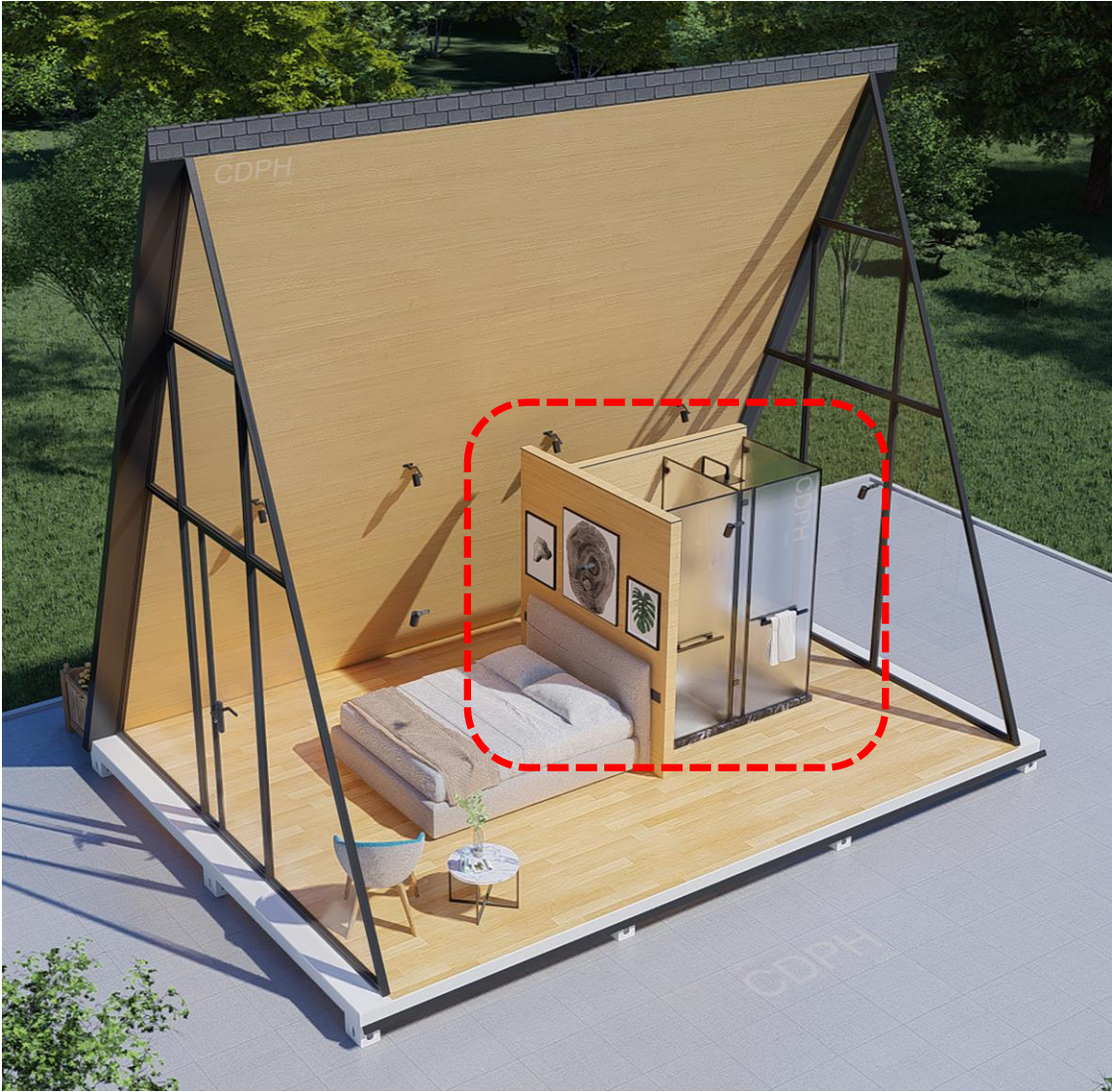
Roof main beam-A

Size: 100*100*3mm,
galvanized square steel pipe

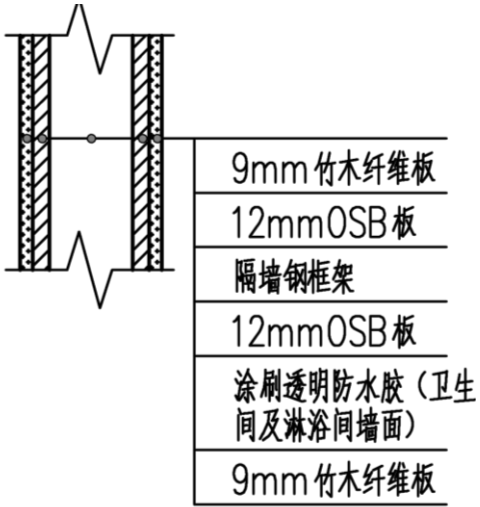
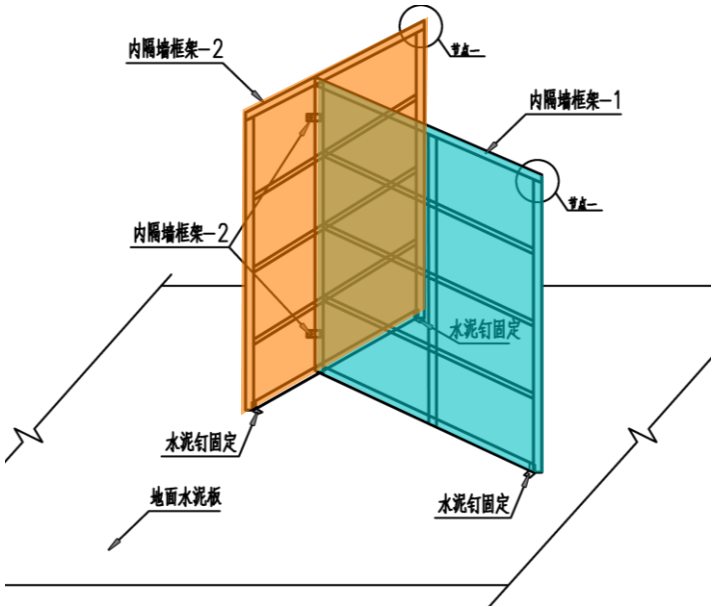
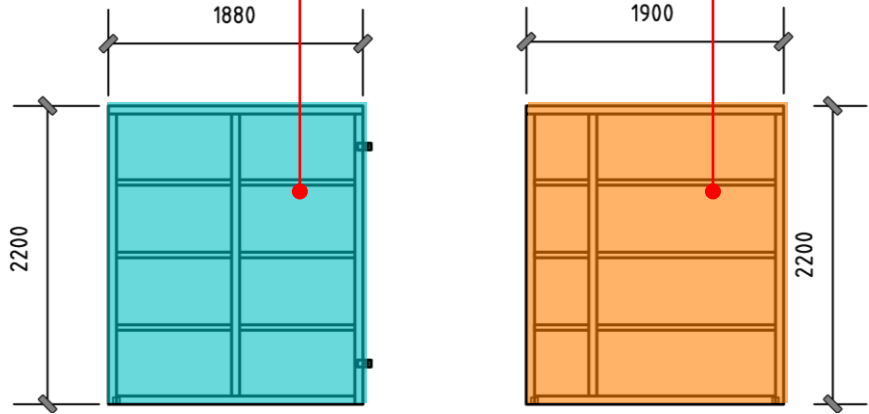
Roof purlin

Size: 50*100*2mm, galvanized C-
shape steel or galvanized square
steel pipe

Internal partitions



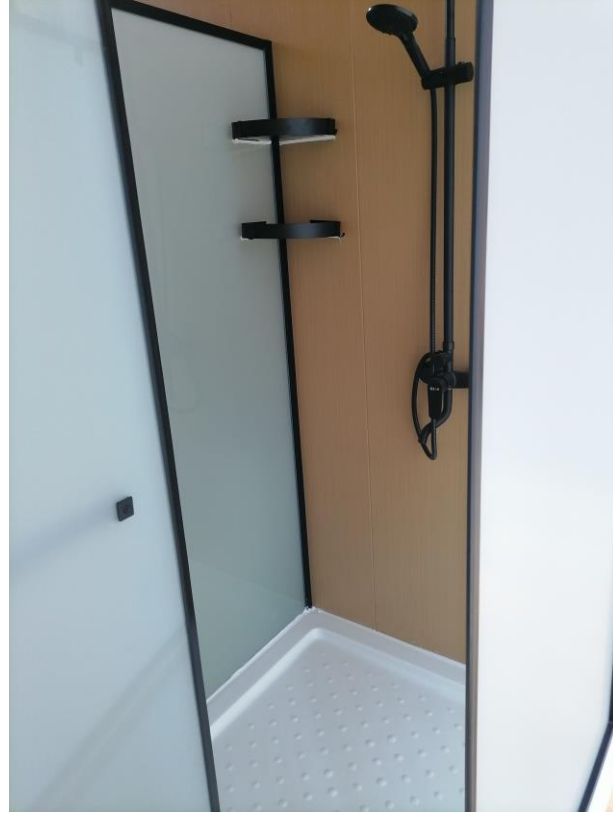
Galvanized square steel pipe



Interior decoration



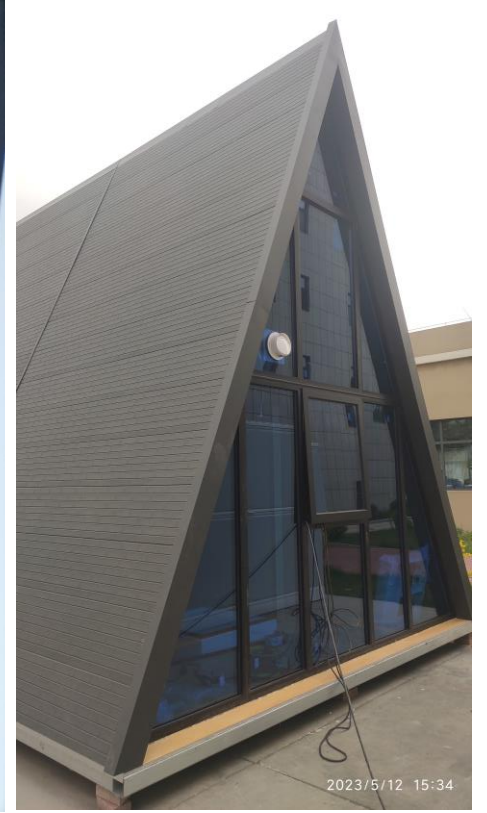
**Wash basin
vanity mirror**



Bathroom



Toilet



Exhaust fan

The installation process



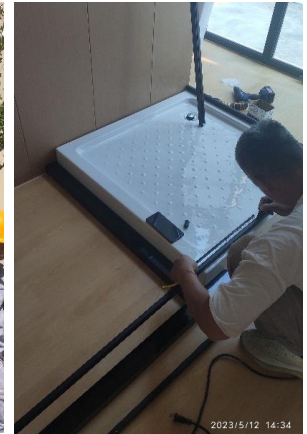
Structure frame



Exterior
protection



Interior wall
and floor



Interior
decoration

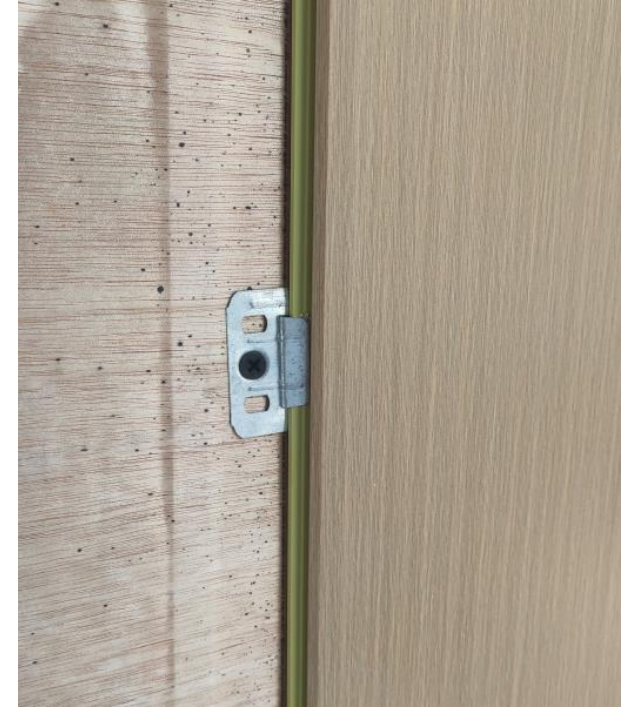
Environmental protection



The frame is connected with bolts
No on-site welding required;



Interior decoration materials
can reach E1 environmental
protection level.



The fixing of decoration
materials we use bolts to
reduce the use of viscose.

Safety



The connections between the steel pipes in the frame all adopt the full welding process.



The welding between the steel plates is all in the form of double-sided welds to ensure the connection strength.



The fixing of decoration materials we use bolts to reduce the use of viscose.

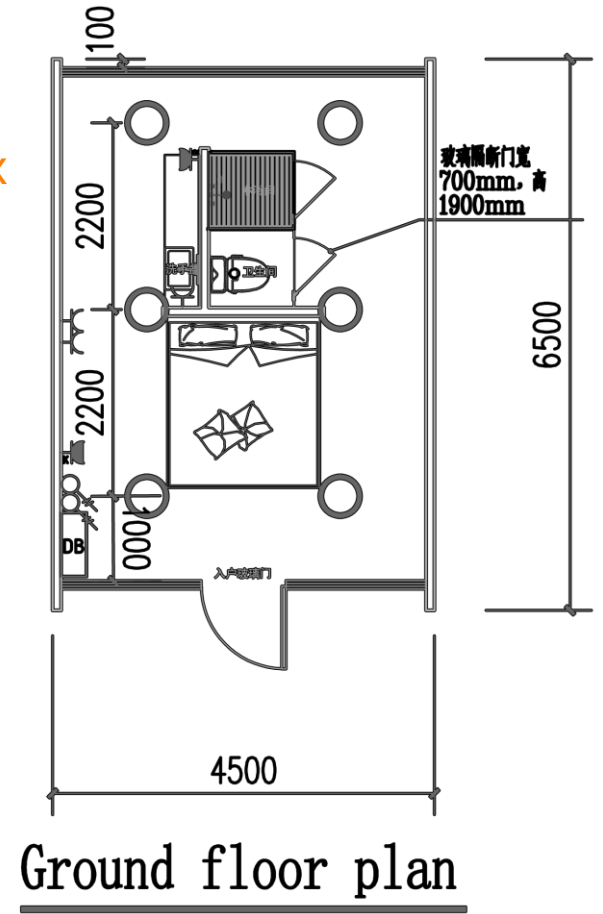


All the important nodes between the frame are connected with high-strength bolts to ensure the connection strength.

Electrical design



Distribution box

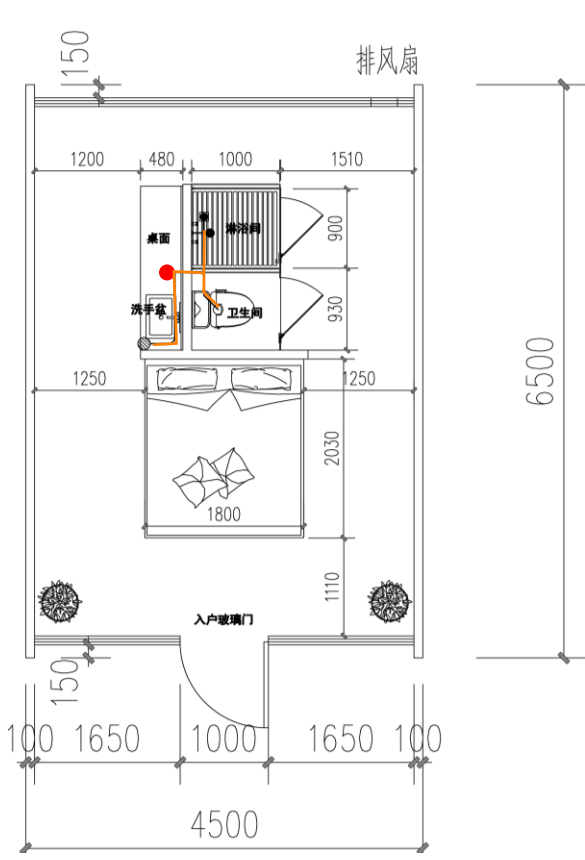


The position of the switch and socket can be adjusted according to the actual situation

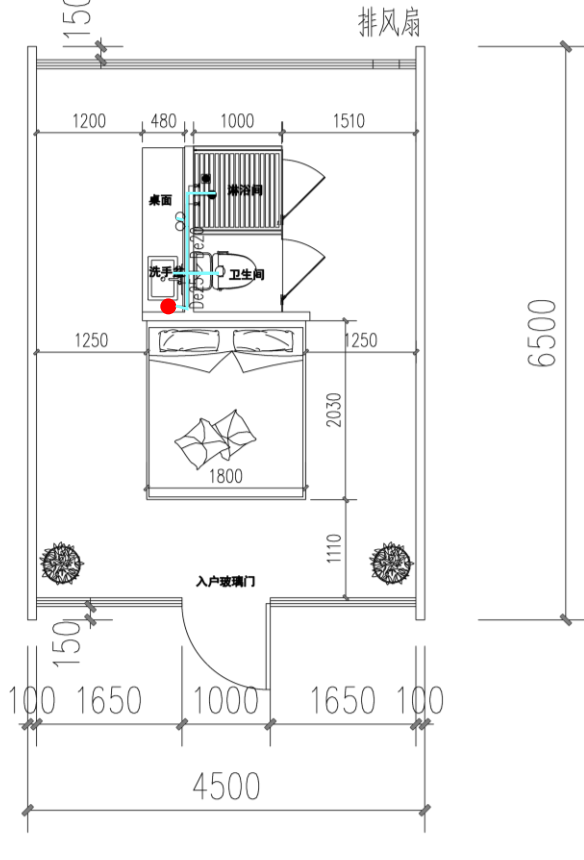
Plumbing design



The plumbing lines are all concealed.



Drainage plan



Water supply plan

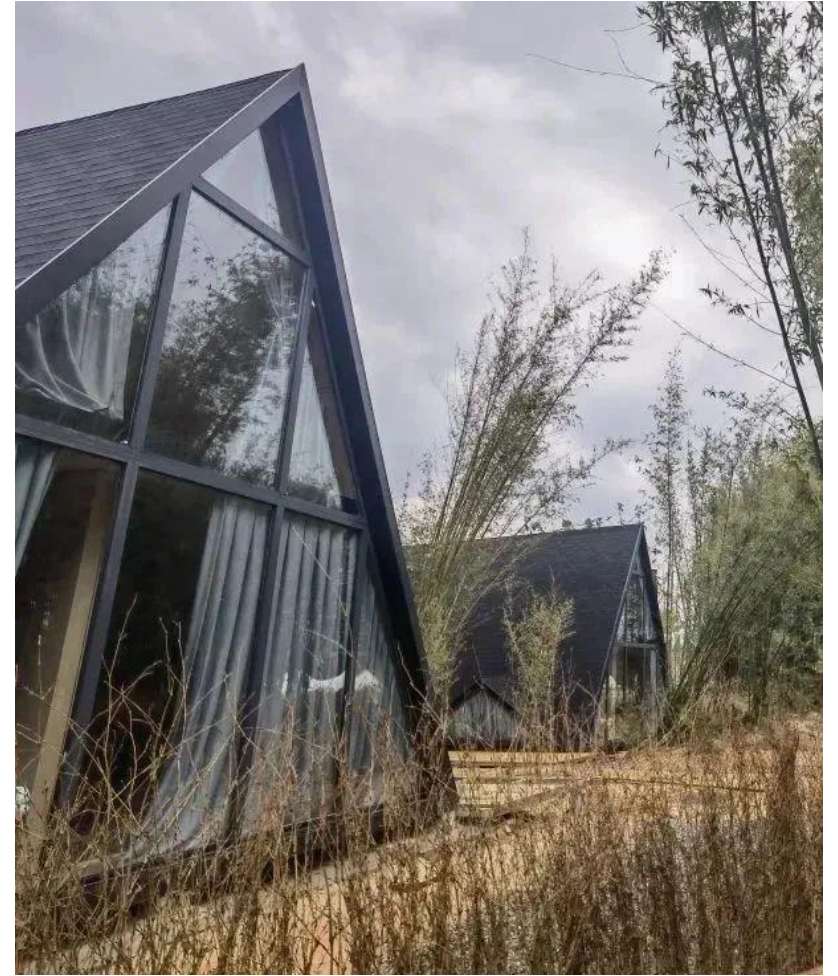
Typical case——The homestay project in Shenzhen, China

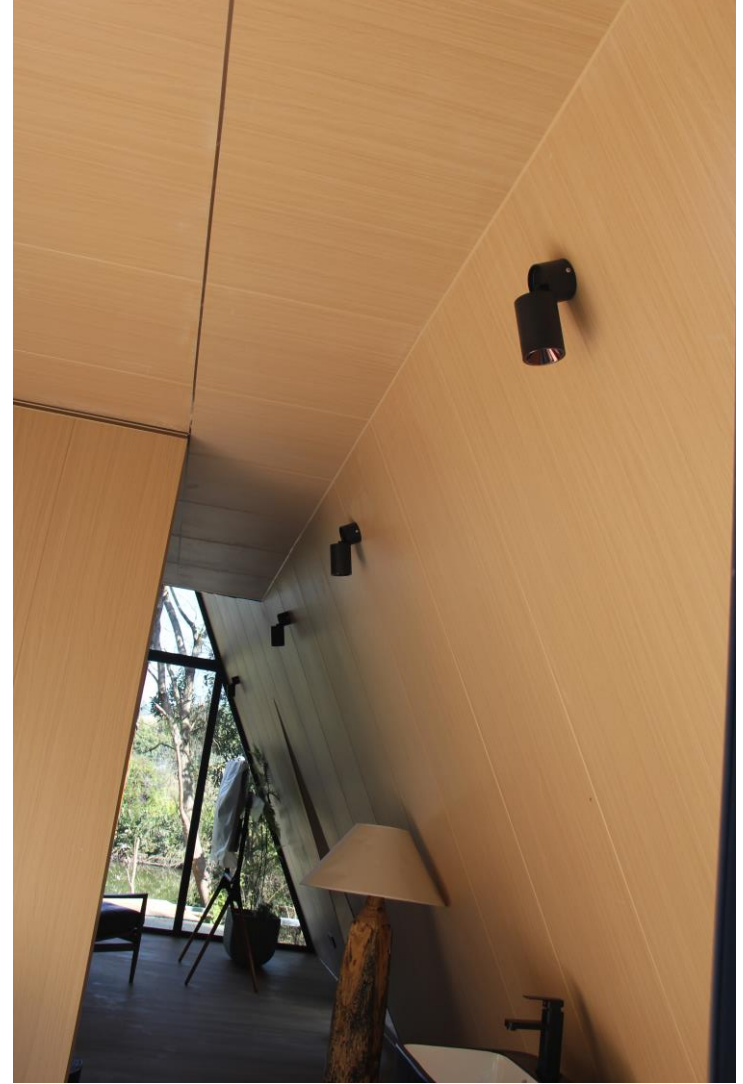












Thank you

