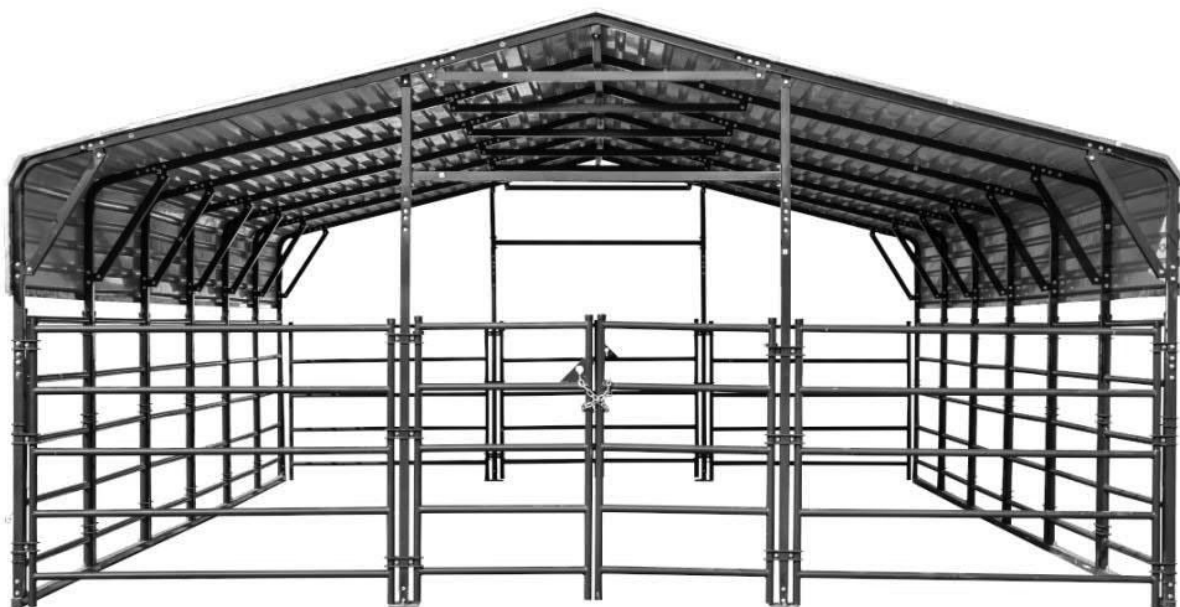


## 20Ft x 30Ft Corral Panel Metal Shed

Model: TMG-MS2030LC



- Please read the product manual completely before assembly
- Check against the parts list to make sure all parts are received
- Wear proper safety goggles or other protective gears while in assembly

Missing parts or questions on assembly?

Please call: 1-877-761-2819 or email: [cs@tmgindustrial.com](mailto:cs@tmgindustrial.com)

Do not return the product to dealer, they are not equipped to handle your requests

## **Main Specifications :**

- Overall assembled size : W6 x L9 x H3.04 (m) / 20 x 30 x 10 (ft)
- Width : 6 m / 20ft
- Length : 9 m / 30 ft
- Ridge Peak Height : 3.04 m / 10 ft
- Shoulder wall clearance height : 2.2 m / 7.2 ft
- Door : W1.85 x H2.2 (m) / 6 x 7.2 (ft)

## **Prior to assembly**

Please read the instructions carefully before installation. It is very important to follow your local safety regulations and industry standards during installation. Regulations may include but are not limited to:

- Safety helmets, protective eyewear, and clothing
- Safety harnesses for all elevated workers
- Proper ladder, cage, and safety operation

Check all components and parts before installation. All parts are marked with a part number, please refer to the parts list to make sure you have all parts.


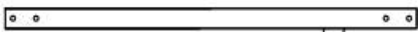
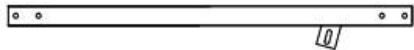







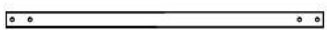



Choose a day with low or no wind to install, assembly is hard in heavy wind. Do not make any alterations to the structure. Do not hang any weights on the frame during installation, including parts. We are not responsible for any damages or injuries caused by inappropriate installation, unauthorized modifications or extreme weather.

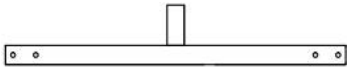


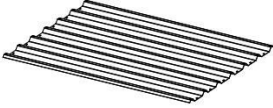
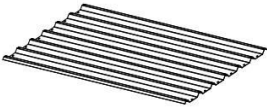










This building is not intended for human occupancy.










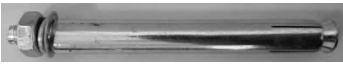

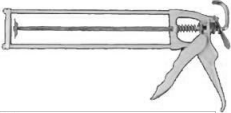


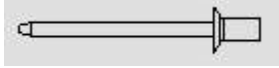


It is recommended to tape or add foam/rubber on the frame where joints connect and where it touches the cover. This will help extend the life span of the cover.




Read the following item list carefully and count the number of items to ensure that all parts are included prior to setup.

### TMG-MS2030LC Part List

Parts code	Graphical	Description	Qty	BOX
1		Peak arch tube	7	1/1
2		Middle rafter tube	10	1/1
2A		Middle rafter tube	4	1/1
3		Shoulder tube	12	1/1
3A		Shoulder tube (middle)	2	1/1
4		Sidewall tube	14	1/1
4A		Short casing	59	1/1
5A		Side edge crossbar (front and rear truss)	4	1/1
5B		Side edge crossbar (middle truss)	8	1/1
5C		Top cross bar A	5	1/1
5D		Top cross bar B	1	1/1
6		Upper reinforcement tube	7	1/1
6A		Foot tube (front and rear)	4	1/1
6B		Foot tube (front and rear)	4	1/1

6C		Foot tube (middle)	2	1/1
6D		Side reinforcement tube	14	1/1
6E		Reinforced tube mounting plate	84	1/1
7		Metal sheet (front and rear truss)	18	1/1
8		Metal sheet (middle truss)	36	1/1
9		Edge protector	10	1/1
10		Edge buckle	8	1/1
11		Water plug	6	1/1
11A		Tube end water plug	40	1/1
12		Steel cable mounting plate	4	1/1
13A		Side upper part fence	12	1/1
13B		Side lower part fence	12	1/1
14A		Front and rear upper part fence	4	1/1
14B		Front and rear lower part fence	4	1/1
15L		Left door	2	1/1

15R		Right door	2	1/1
16		Front door lower column tube	4	1/1
17		Front door upper column tube	4	1/1
18		Front door cross pull tube	2	1/1
19		Baseplate	4	1/1
20		Double fastener	84	1/1
21		Single fastener	48	1/1
22		Anchor hook ( M14x120mm )	6	1/1
23		Steel cable ( 3.9m )	6	1/1
24		Expansion bolt (φ16x150mm)	22	1/1
25		Waterproof silicon sealant	4	1/1
25A		Teroson statu	1	1/1
26		Hex bolt M10x70mm	345	1/1
27		Self tapping screw M5x25mm	370	1/1
28		Rivet φ3x6mm	70	1/1
29		Corner protector	4	1/1
30		Hex bolt M10x120mm	7	1/1

31		Sleeve	2	1/1
32		Eyebolt	2	1/1
33		Hex bolt M10x30mm	112	1/1

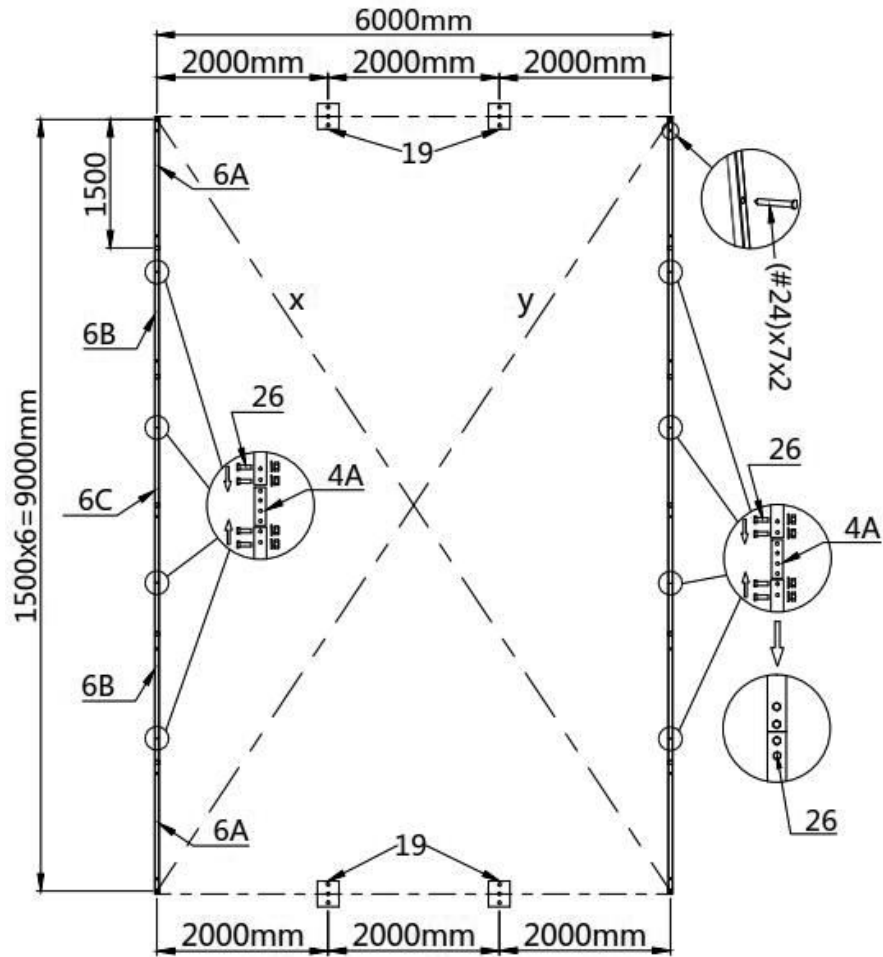
## Installation steps

### Step 1 : Review the whole structure and choose the proper installation site

Refer to the foundation structure Figure 1, draw lines on the ground for positioning, all dimension lines are drawn from the center of the pipe to the center, and the diagonal X must be equal to Y.

Installation of foundation pipes: all foundation pipes shall be connected here with (#24) hex bolts as shown in Figure 1, and fixed on the ground with (#24) expansion bolts (refer to figure 1).

- Parts used in this step :
  - (4) Foot tube (#6A)
  - (4) Foot tube (#6B)
  - (2) Foot tube (#6C)
  - (32) Hex bolt (#26)
  - (4) Base plate (#19)
  - (14) Expansion bolt (#24)
  - (8) Short casing (#4A)

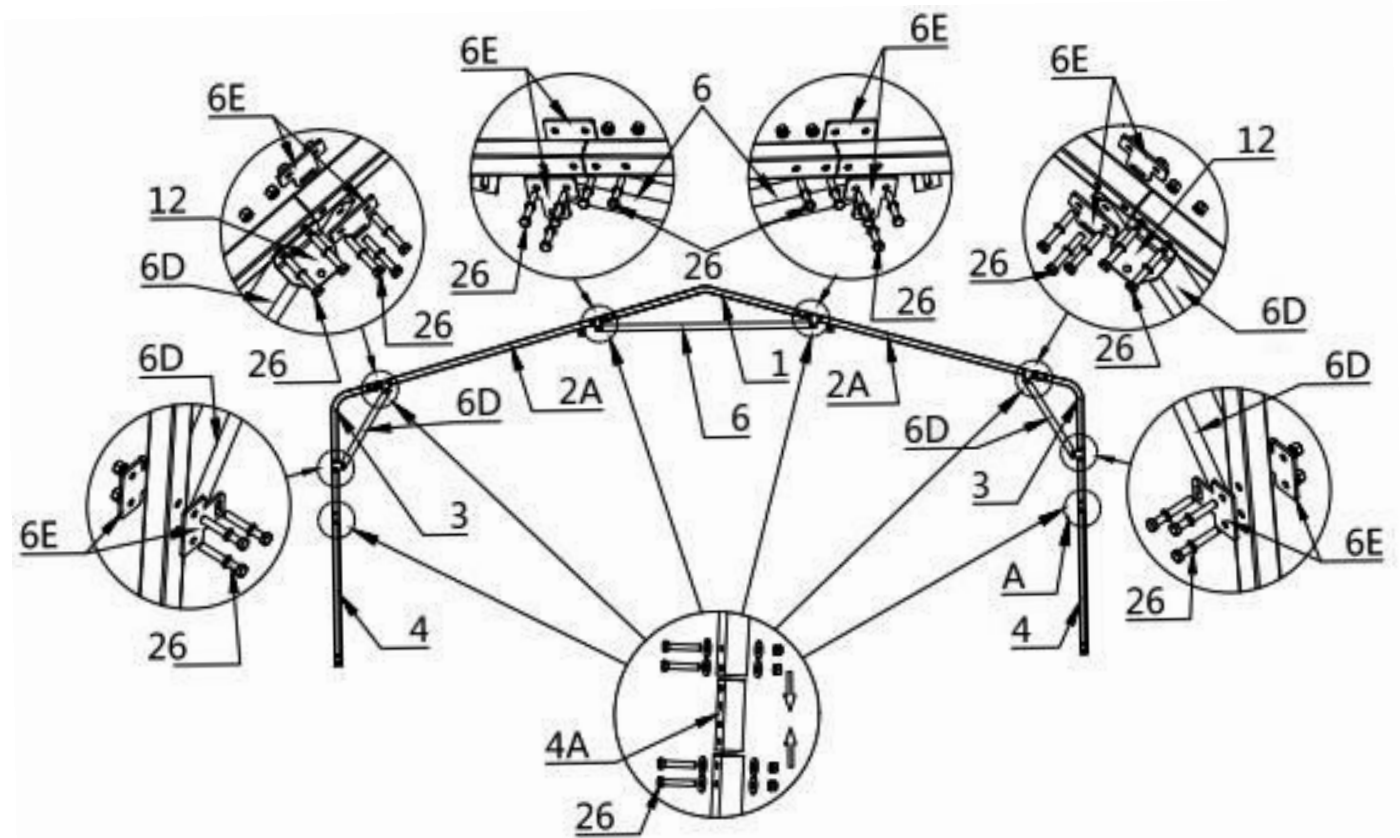


**Figure 1**

## Step 2 : Assemble all trusses

The building includes 7 trusses : (1) front truss, (1) rear truss, (1) middle trusses and (4) other trusses.

- Parts used to install the front and rear truss in this step (refer to figure 2).
  - (1x2) Peak arch tube (#1)
  - (2x2) Middle rafter tube (#2A)
  - (2x2) Shoulder tube (#3)
  - (2x2) Sidewall tube (#4)
  - (6x2) Short casing (#4A)
  - (1x2) Upper reinforcement tube (#6)
  - (2x2) Side reinforcement tube (#6D)
  - (12x2) Reinforced tube mounting plate (#6E)
  - (2x2) Steel cable mounting plate (#12)
  - (34x2) Hex bolt M10x70mm (#26)

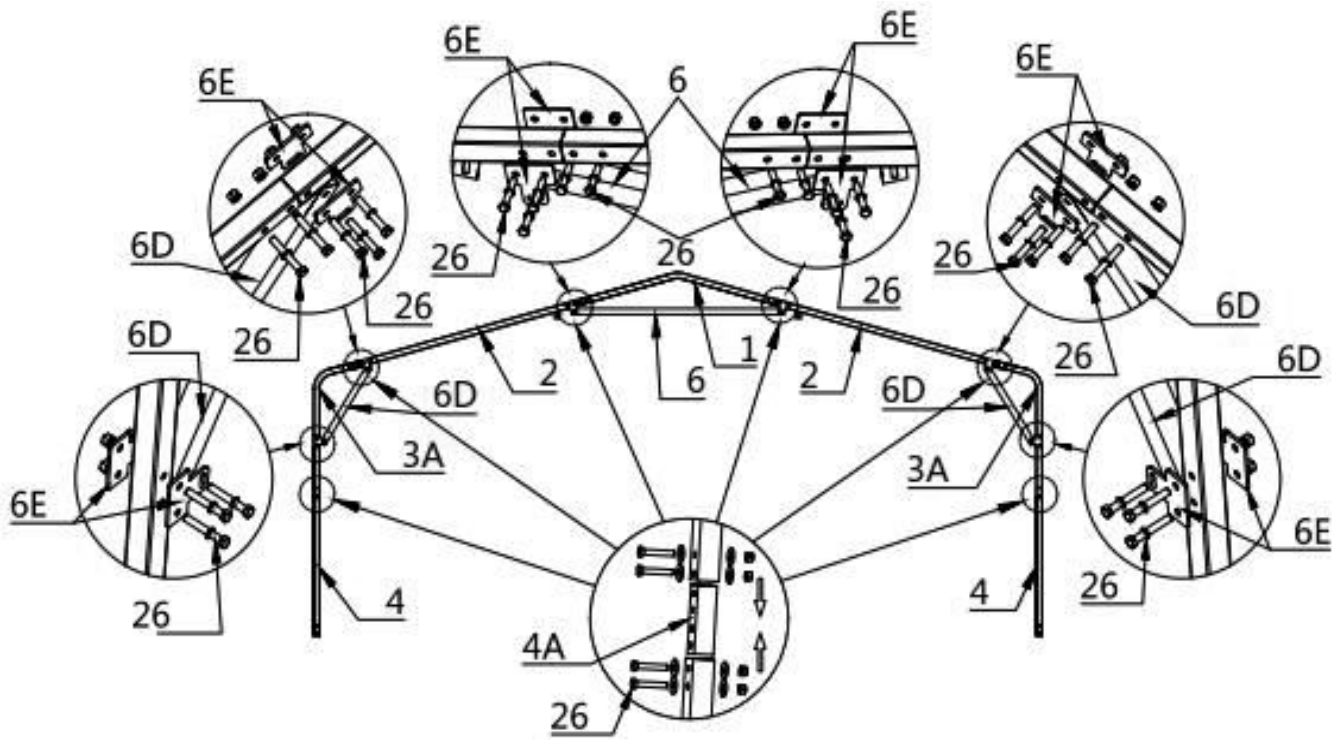


**Figure 2**

- Parts used to install (1) middle trusses in this step (refer to figure 3).

- (1) Peak arch tube (#1)
- (2) Middle rafter tube (#2)
- (2) Shoulder tube (#3A)
- (2) Sidewall tube (#4)
- (6) Short casing (#4A)
- (1) Upper reinforcement tube (#6)
- (2) Side reinforcement tube (#6D)
- (12) Reinforced tube mounting plate (#6E)
- (34) Hex bolt M10x70mm (#26)



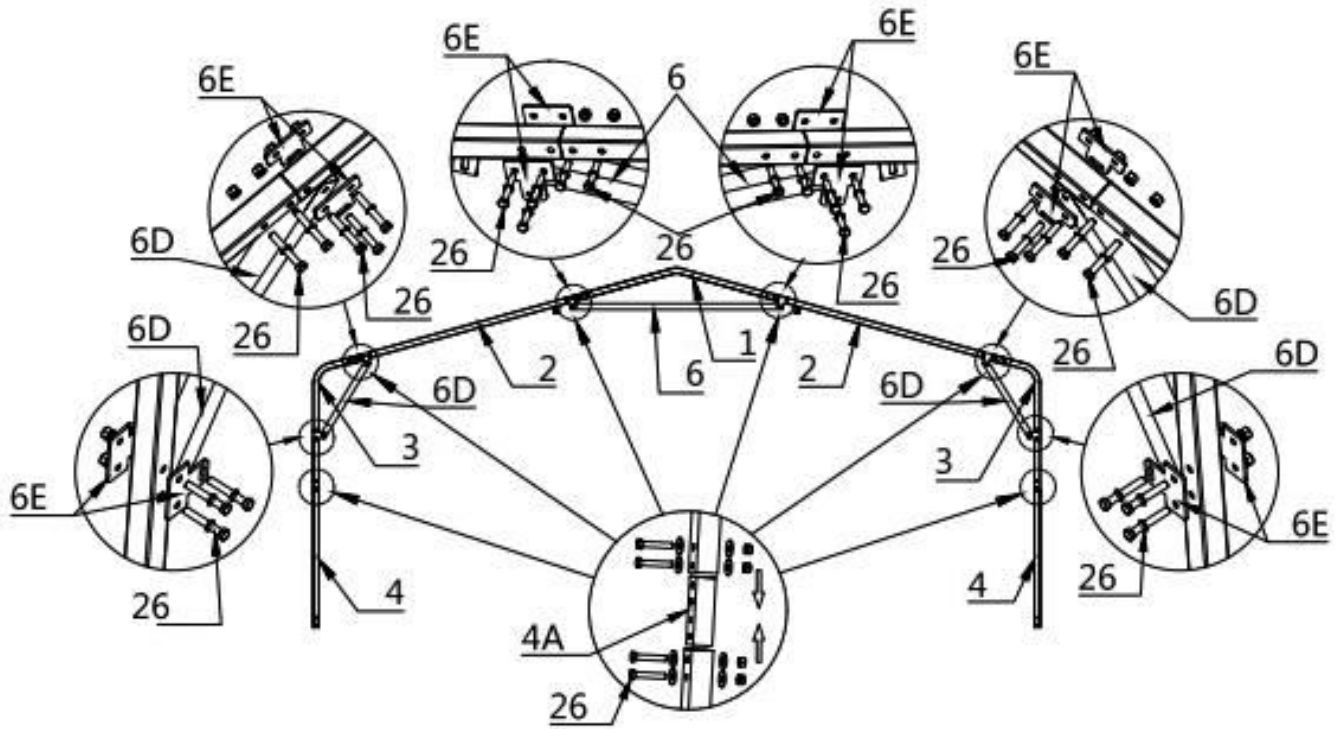


**Figure 3**

- Parts used to install (4) other trusses in this step (refer to figure 4).

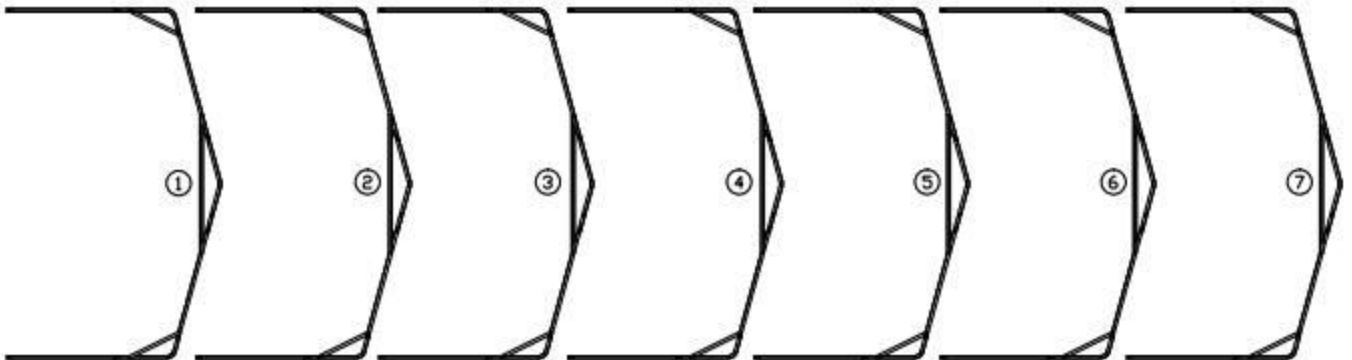
- (1x4) Peak arch tube (#1)
- (2x4) Middle rafter tube (#2)
- (2x4) Shoulder tube (#3)
- (2x4) Sidewall tube (#4)
- (6x4) Short casing (#4A)
- (1x4) Upper reinforcement tube (#6)
- (2x4) Side reinforcement tube (#6D)
- (12x4) Reinforced tube mounting plate (#6E)
- (34x4) Hex bolt M10x60mm

(#26)



**Figure 4**

- Lay down all (7) trusses on the ground when the assembly is all completed and before moving to next step (refer to figure 5).



**Figure 5**

### Step 3 : Assemble all trusses to the foundation pipe and connect them with (#17) bolts

- The front and rear trusses are installed with one side of (#12) Steel cable mounting plate facing outwards (refer to figure 6).
- Parts used in this step :
  - (4x7) Hex bolt (#26)

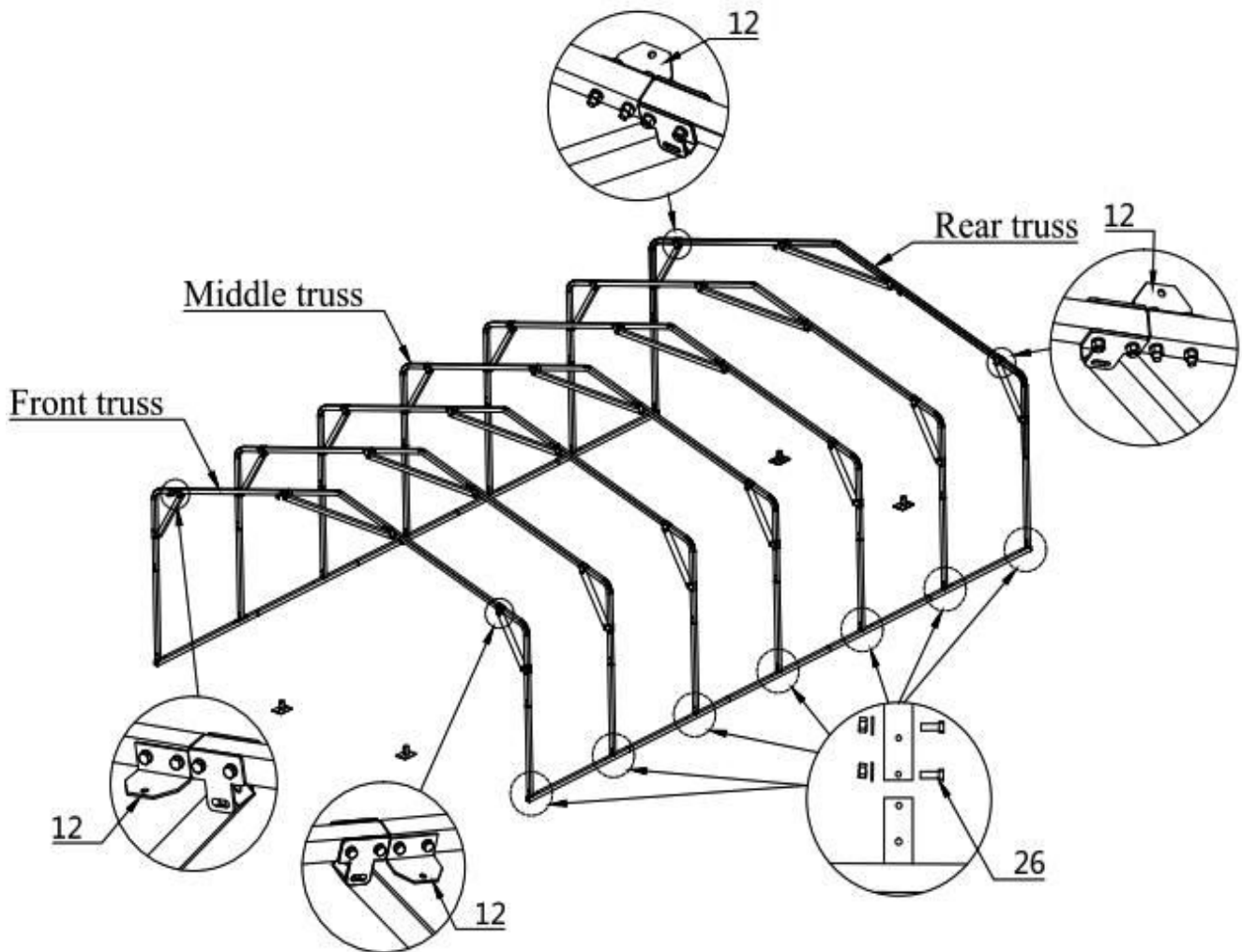
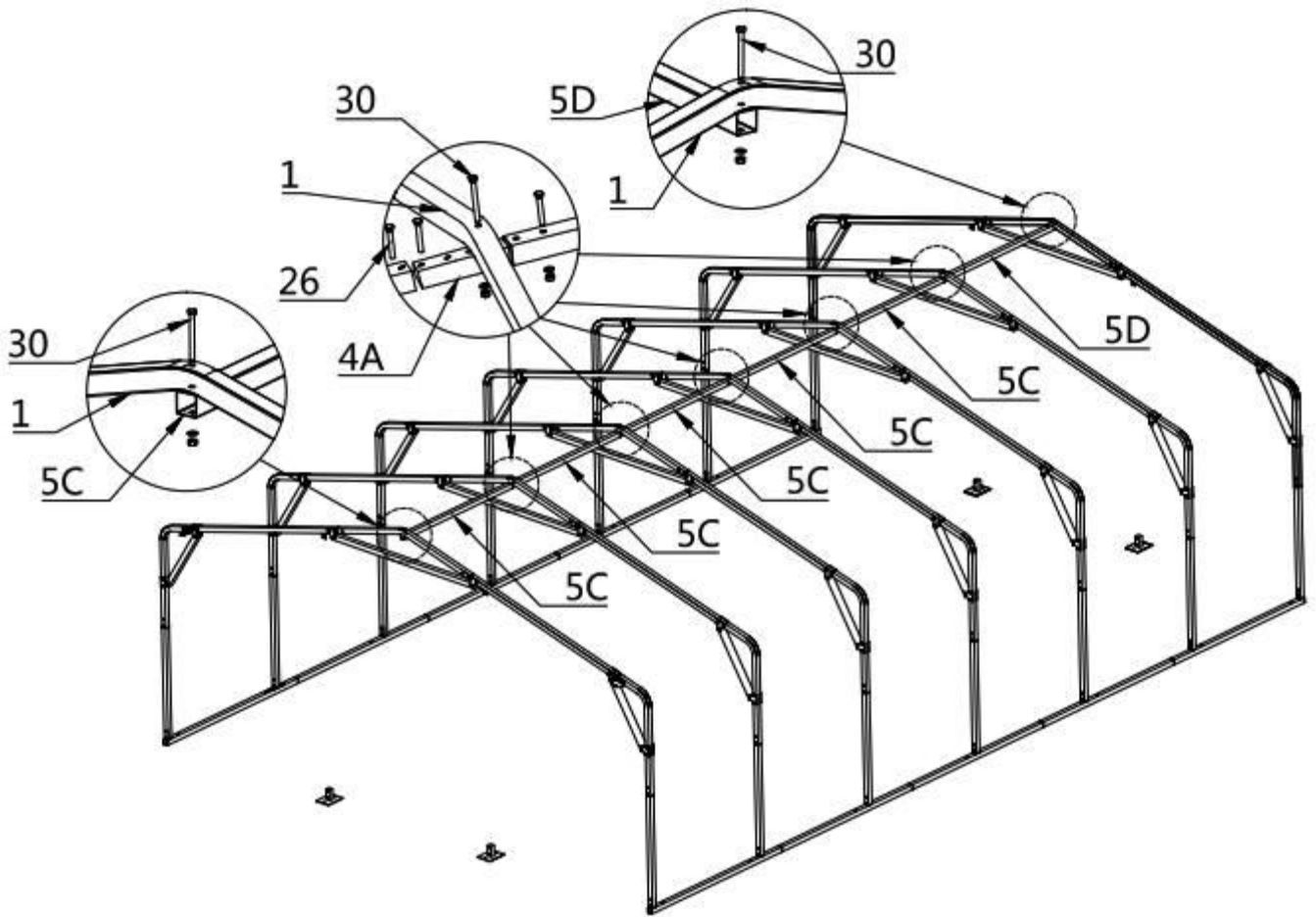


Figure 6

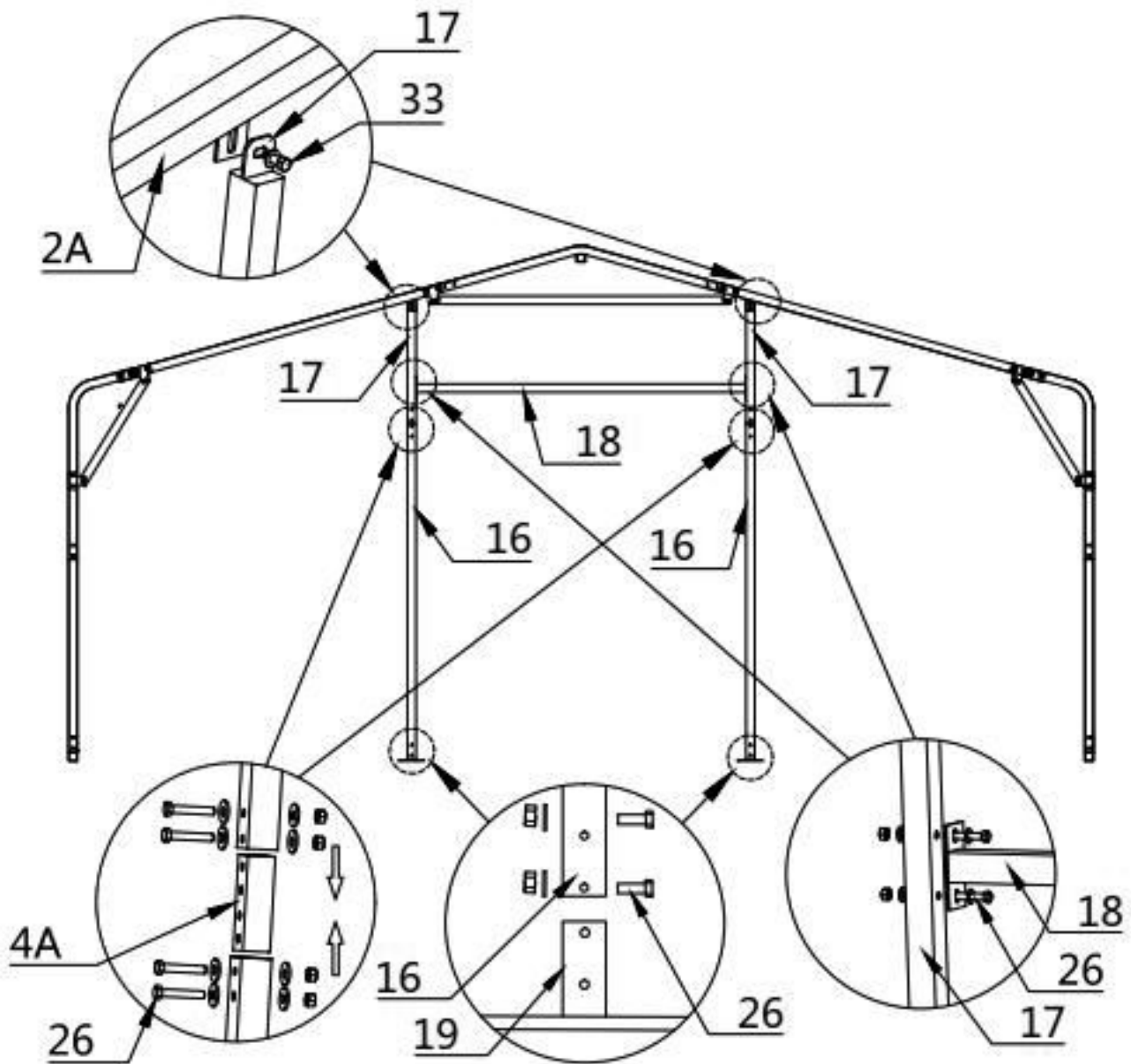
- Install top cross bar A (#5C) and top cross bar B (#5D). Use (#30) and (#26) Hexagonal bolt fixation (refer to figure 7).
- Parts used in this step :
  - (5) Top cross bar A (#5C)
  - (1) Top cross bar B (#5D)
  - (5) Short casing (#4A)
  - (15) Hex bolt (#26)
  - (7) Hex bolt (#30)



**Figure 7**

**Step 4 : Door column installation, the front and rear mounting methods are the same (refer to figure 8).**

- (2x2) Short casing (#4A)
- (2x2) Front door lower column tube (#16)
- (2x2) Front door upper column tube (#17)
- (1x2) Front door cross pull tube (#18)
- (16x2) Hex bolt M10x60mm (#26)
- (2x2) Hex bolt M10x40mm (#33)

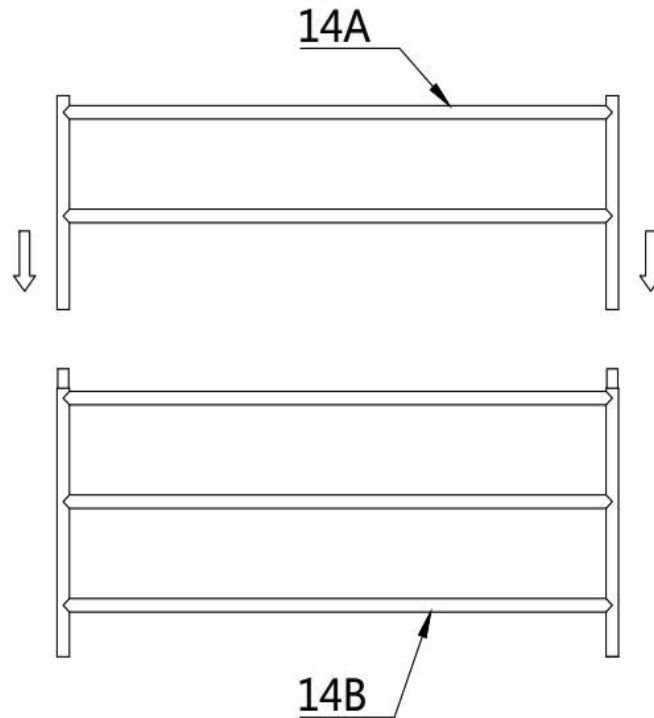


**Figure 8**

**Step 5 : Assemble all the front and rear part fence as shown in (refer to figure 9).**

- Parts used in this step :

- (4) Front and rear upper part fence (#14A)
- (4) Front and rear lower part fence (#14B)



**Figure 9**

**Step 6 : Install the front and rear door enclosure (refer to figure 10).**

Install the front and rear mechanical doors and front and rear fences, and fix the mechanical doors (#15L, #15R) and front and rear fences (#14A, #14B) with double fasteners (#20). Adjust the height of the mechanical door to the base plate by 20 mm, and adjust the positioning iron ring on the mounting plate. For the mechanical door to match the upper double fastener, tighten the bolt C, and then adjust the bolt on the double fastener so that the mechanical door can rotate. The left and right mechanical doors are installed symmetrically. The fence and the truss are fixed with a single fastener (#21) and locked with (#33) hex bolts.

- Parts used in this step :

- (1x2) Left door (#15L)
- (1x2) Right door (#15R)
- (12x2) Double fastener (#20)

- (12x2) Single fastener (#21)
- (18x2) Hex bolt M10x40mm (#33)

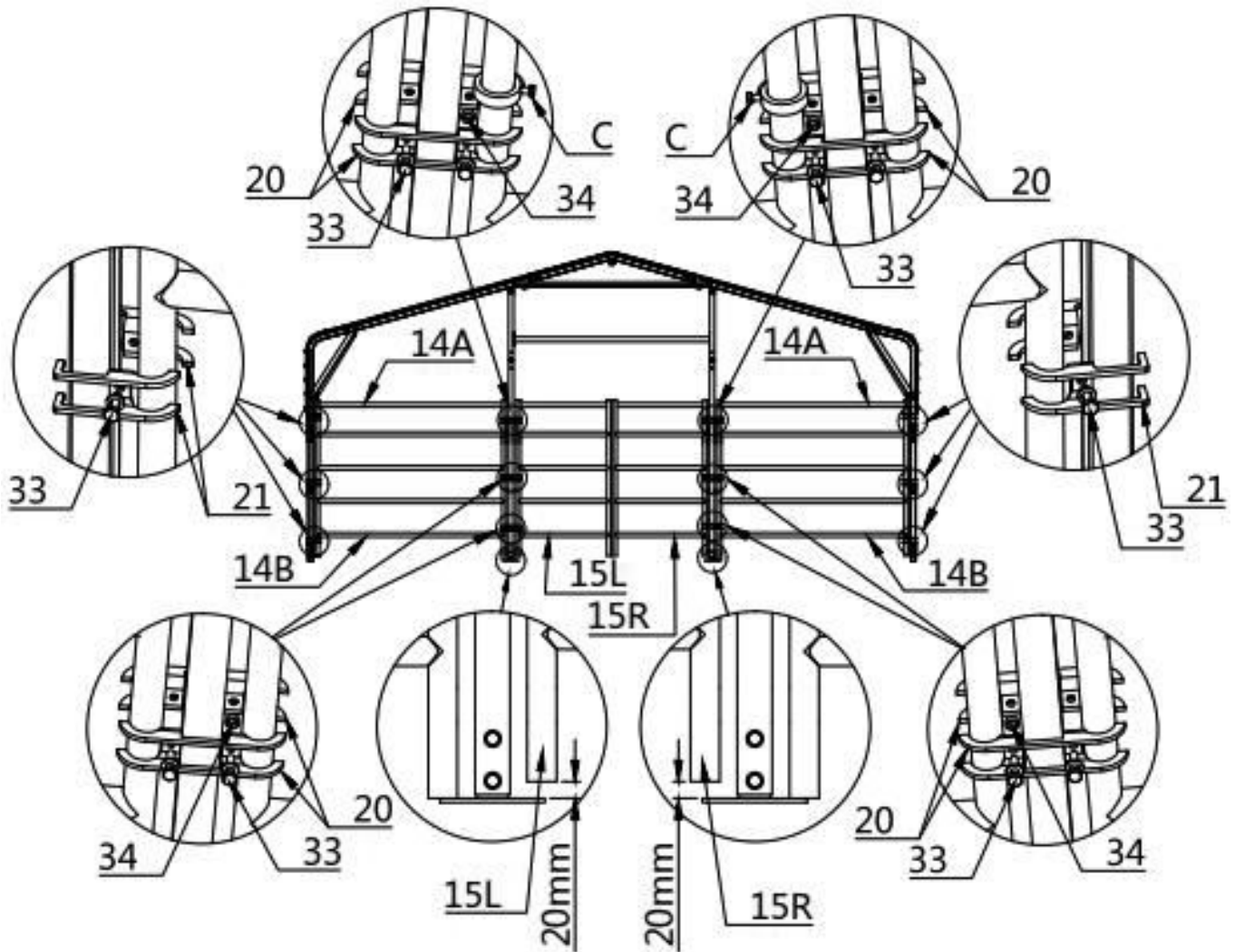
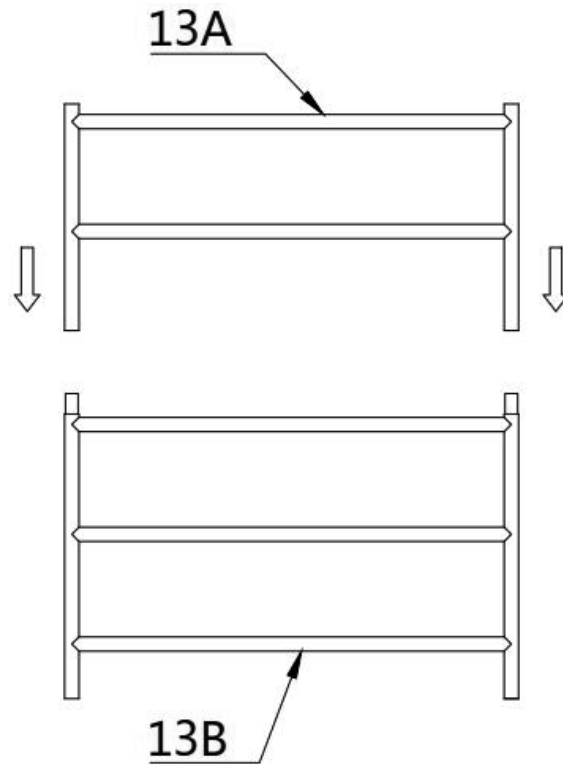


Figure 10

**Step 7 : Assemble all the side part fence as shown in (refer to figure 11).**

- Parts used in this step :
  - (12) Side upper part fence (#13A)
  - (12) Side lower part fence (#13B)

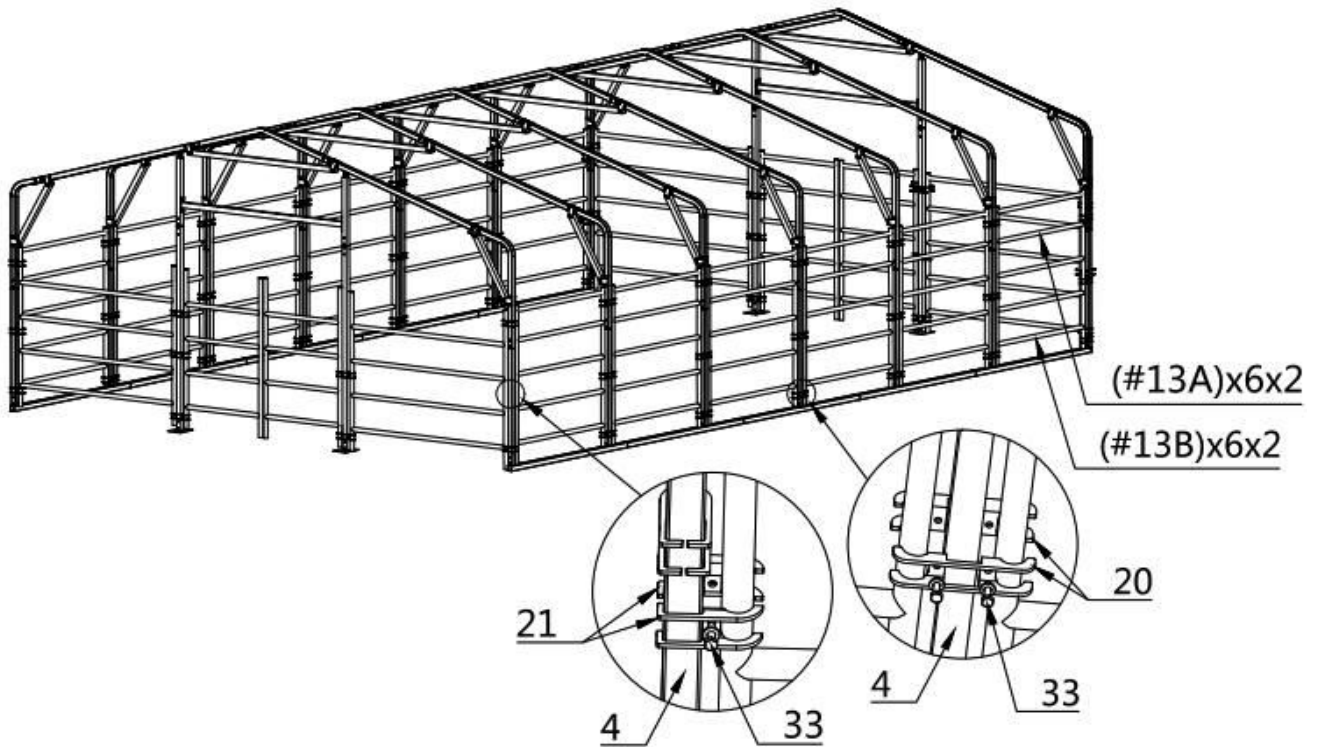


**Figure 11**

**Step 8 : Install fences on both sides**

- Install the fence between the trusses, the left and right trusses and fences are fixed with single fastener (#21), middle trusses and fences are fixed with double fastener (#20), and locked with hex bolt (#33) , same installation method on both sides (refer to figure 12).
- Parts used in this step :
  - (30x2) Double fastener (#20)
  - (12x2) Single fastener (#21)
  - (36x2) Hex bolt M10x40mm (#33)

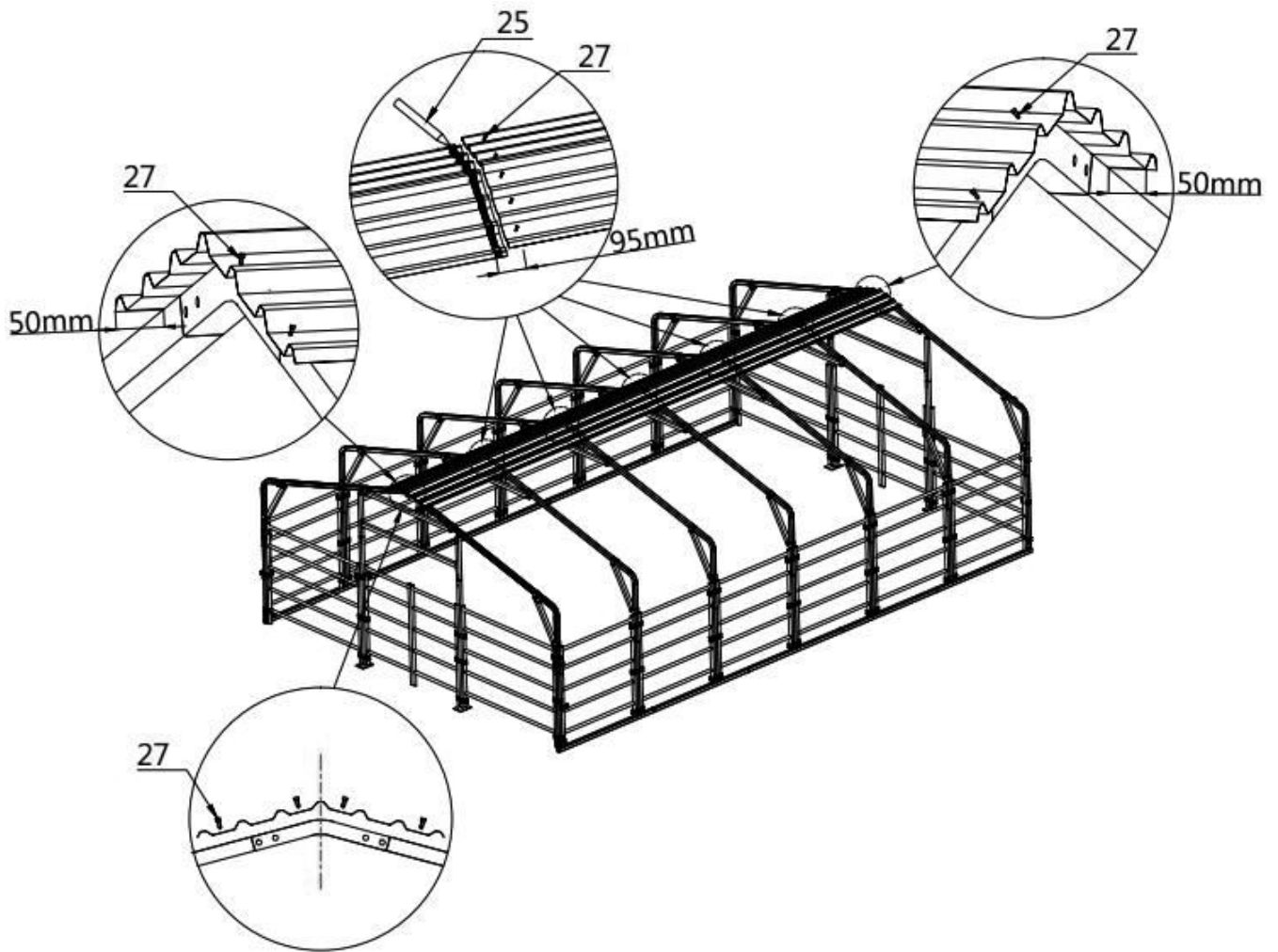




**Figure 12**

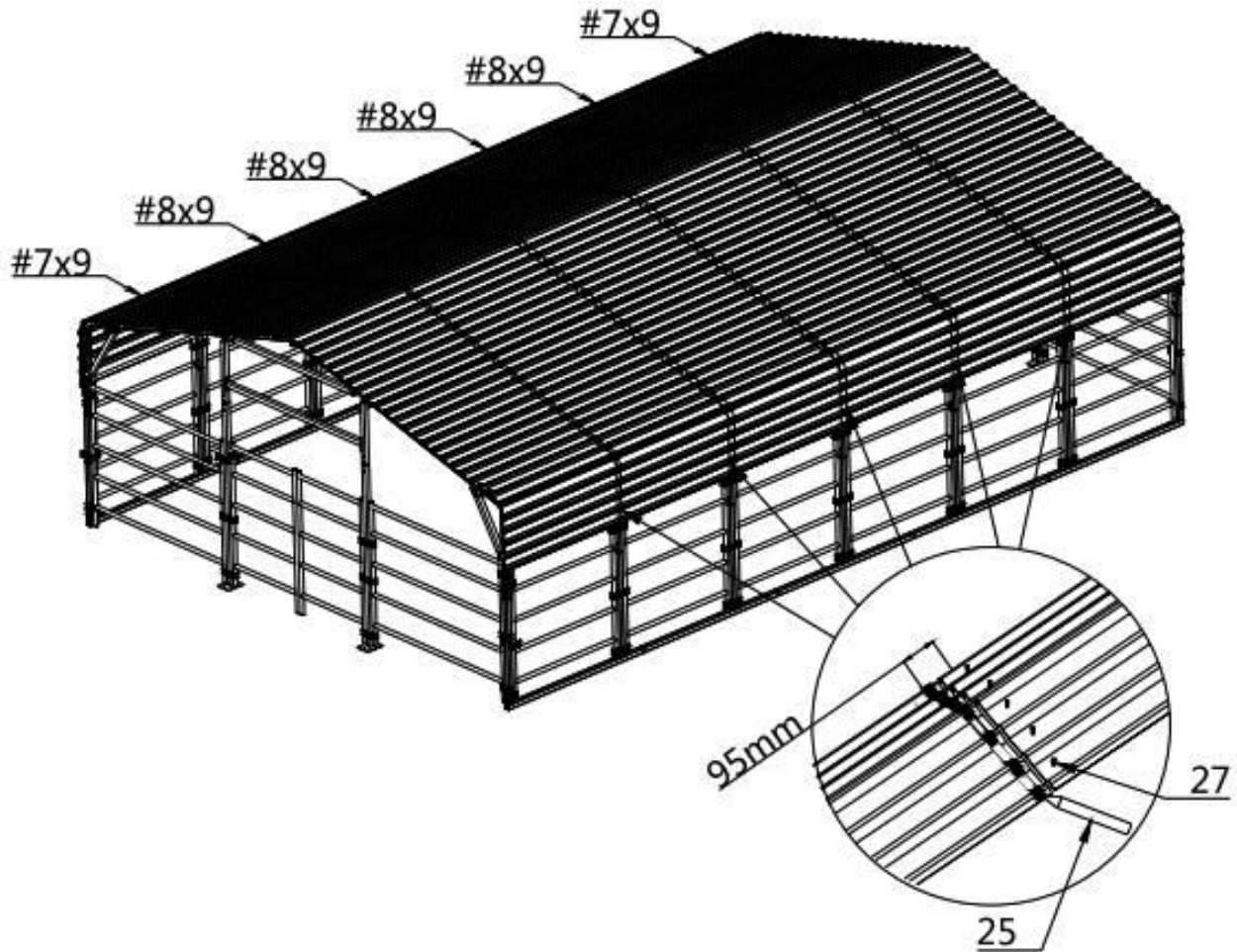
### Step 9 : Install the color iron tile

- Before installation, ensure that the distance between centers of each collapse is 1500mm. Install the first row of colored steel tiles from the top end. The center of the colored steel tiles must be aligned with the midpoint of the top arch tube (you can mark the center of the top arch tube with a line). The extension size of both ends is 50mm. The size of the middle cross overlap position is 95mm, and the cross overlap position needs to be coated with waterproof silicon sealant. All color steel tiles are fixed on the truss with (#27) self tapping screws (refer to figure 13).
- Parts used in this step :
  - (18) Metal sheet (#7)
  - (36) Metal sheet (#8)
  - (202) Self tapping screw (#27)
  - (4) Waterproof silicon sealant (#25)



**Figure 13**

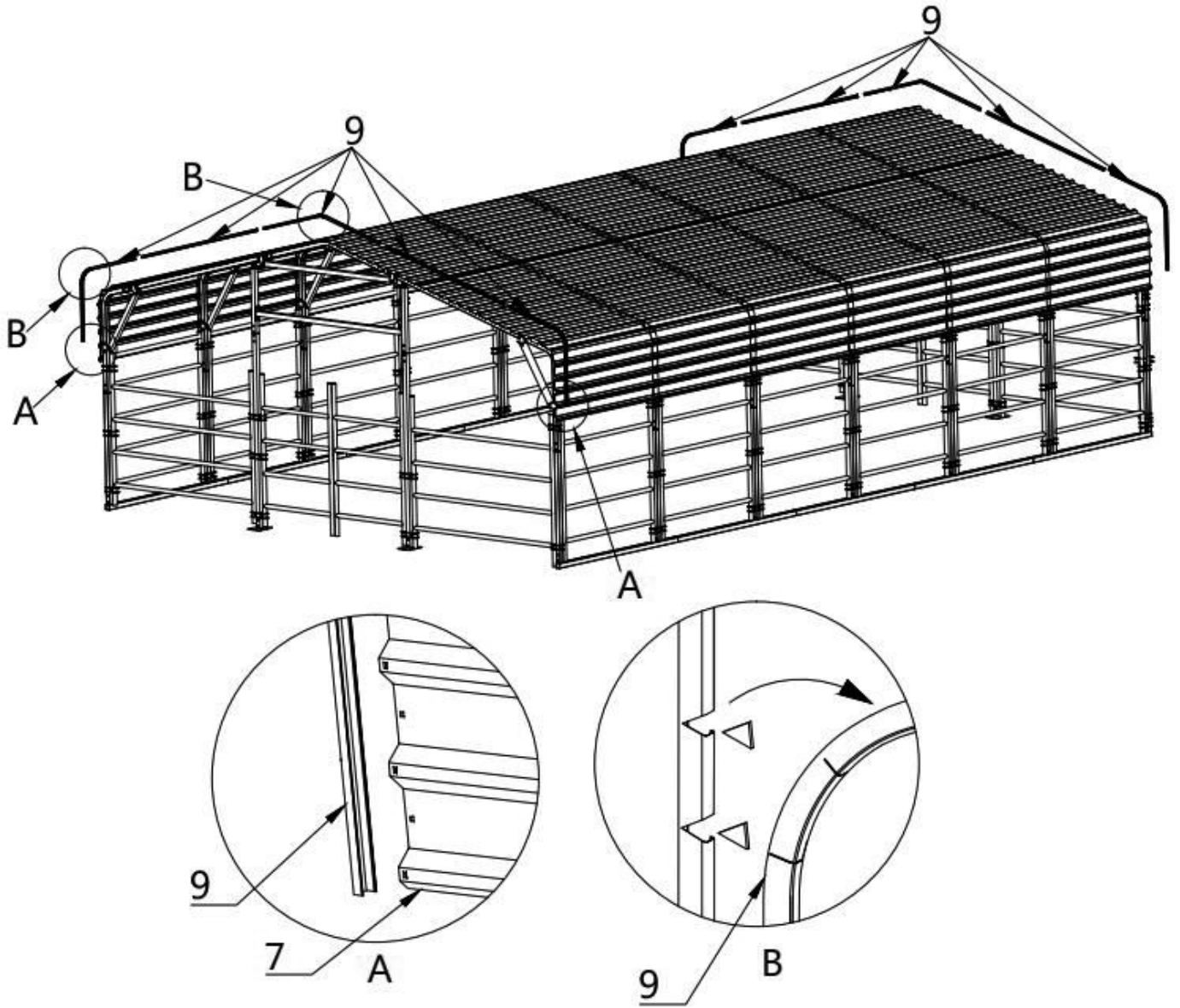
Install all color iron tiles in turn, take the first colored steel tile at the top as the benchmark make sure that both ends of each color iron tile are aligned, and apply waterproof silicon sealant (#25) on the butt joint of both ends (refer to figure 14).



**Figure 14**

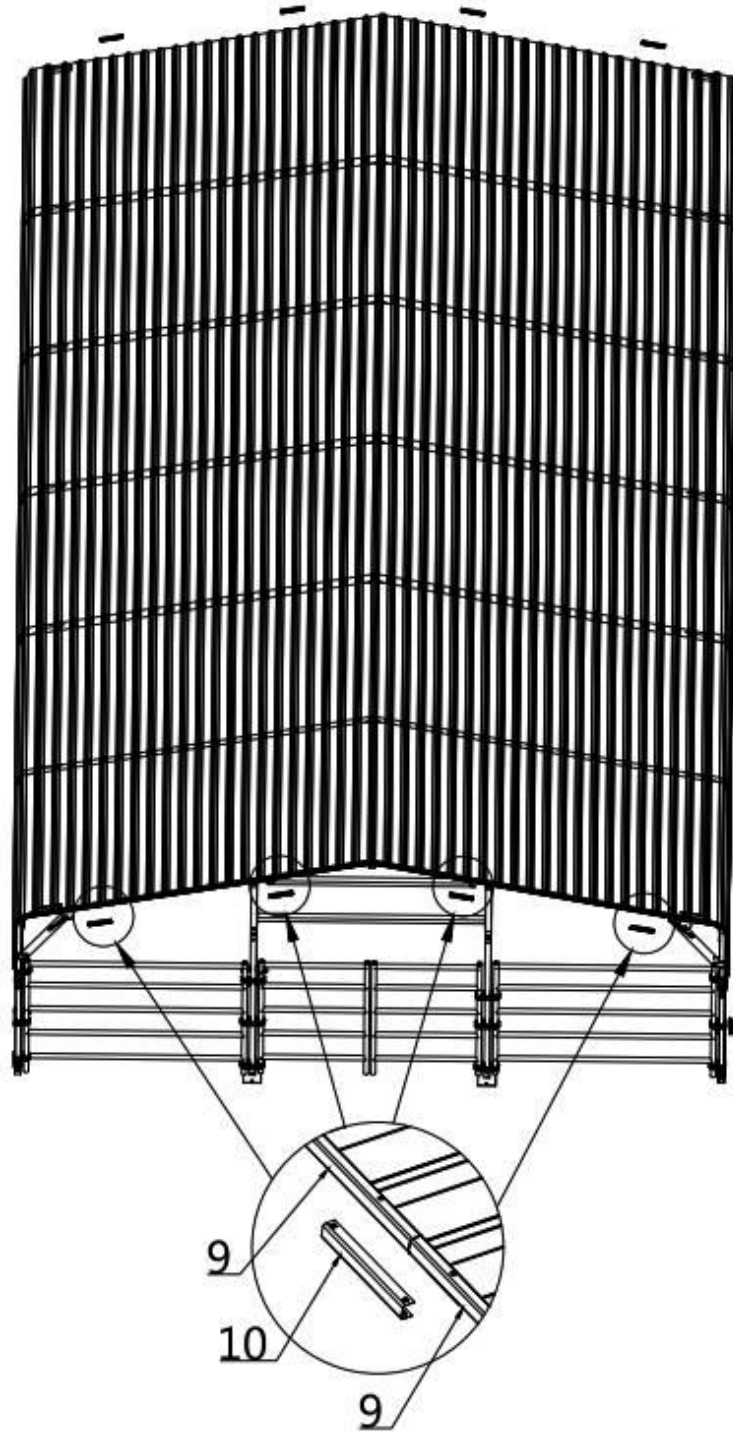
**Step 10 : Install the front and rear edging strips**

- Start to install the color steel tile edge protector (#9) from one side, and align one end with the color steel tile edge. The opening of the edge banding strip of the color steel tile shall be aligned with the end face of the color steel tile, and the bottom buckle can be pressed into place. It is necessary to use tools to cut out the gap at the corner so that the edge banding strip of color steel tile can be bent and installed (refer to figure 15).
- Parts used in this step :
  - (10) Edge protector (#9)
  - (8) Edge buckle (#10)



**Figure 15**

- Install the edge buckle (#10) and the two raised card points of the edge buckle are aligned with the square holes at the interfaces of the two color steel tile edge bands, and then press the buckle in place. The front and rear installation methods are the same (refer to figure 16).



**Figure 16**

**Step 11 : Connect the crossbar**

- Install the side connecting crossbar, align (#5A) side edge crossbar with the binding strip, wrap the colored steel tile binding strip and the colored steel tile inside the opening of the connect the crossbar, and fix them on the (#4) sidewall tube with (#27) self tapping screw. The installation method is the same on both sides (refer to figure 17).

- Parts used in this step :
  - (4) Side edge crossbar (#5A)
  - (8) Side edge crossbar (#5B)
  - (28) Self tapping screw (#27)

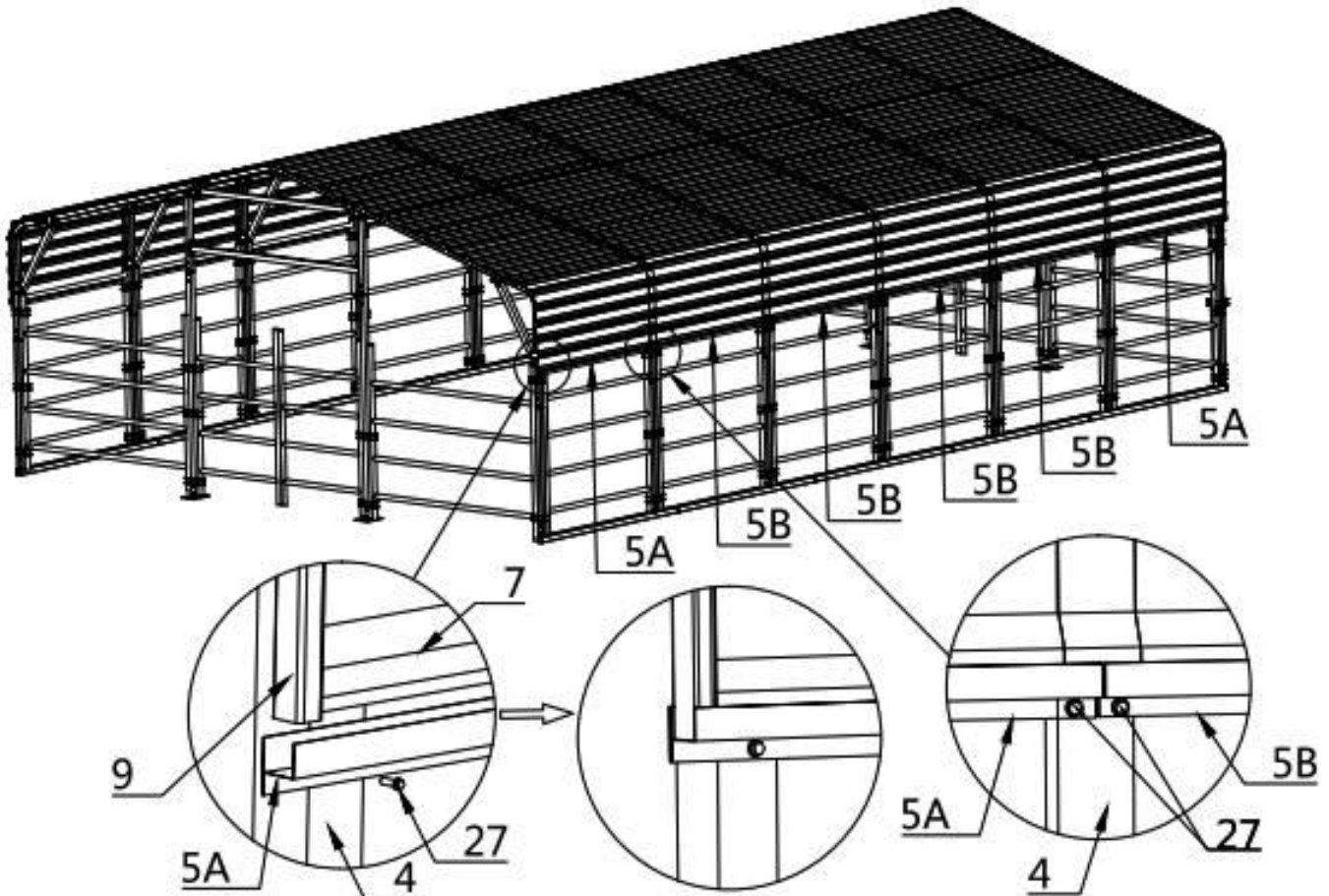
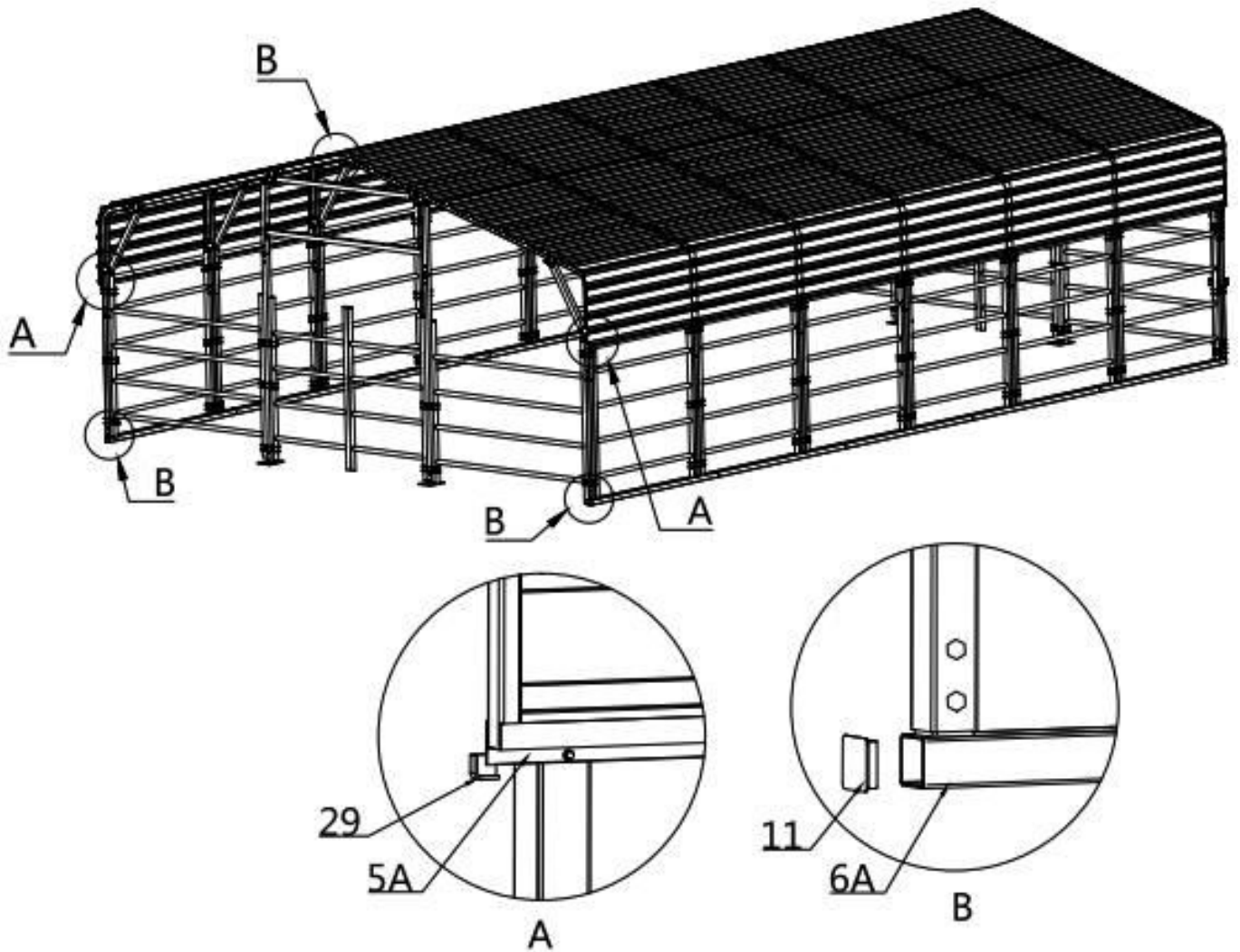


Figure 17

### Step 12 : Install the square pipe waterproof plug and anti-collision angle

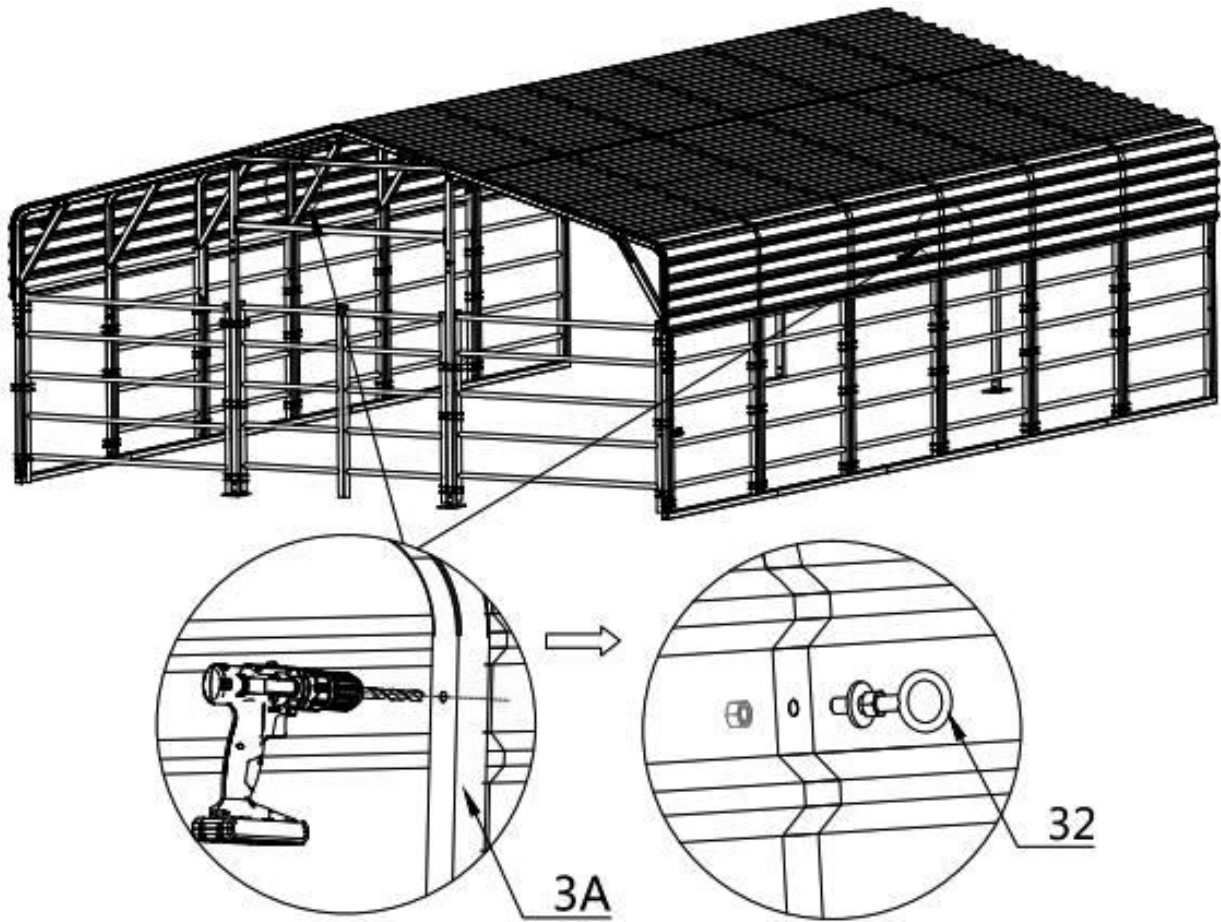
- Put the waterproof plug into the square pipe head. Tear the 3M adhesive protective film, on the anti-corner protector (#29) and paste the anti-collision angle to one end of the (#5A) side edge crossbar. The front and rear installation methods are the same (refer to figure 18).
- Parts used in this step :
  - (6) Water plug (#11)
  - (4) Corner protector (#29)



**Figure 18**

**Step 13 : Install eye bolts**

- Drill holes from inside to outside where the middle truss has holes, through the thin metal sheet, Then install (#32) eyebolts (refer to figure 19).
- Parts used in this step :
  - (2) Eyebolt (#32)

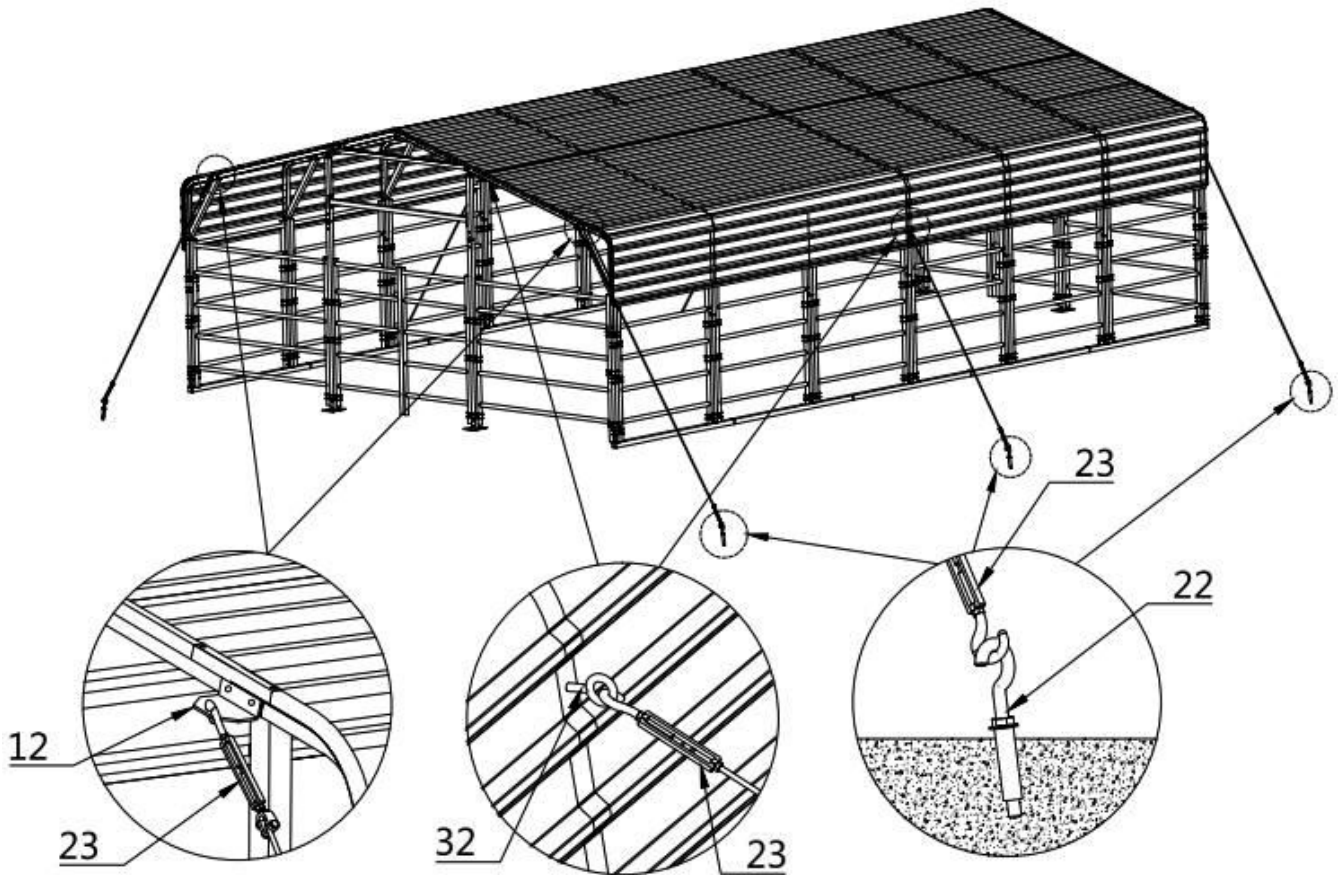


**Figure 19**

#### **Step 14 : Install the wire rope**

- Select a suitable position to fix the expansion bolt of the draw hook one end of the wire rope onto the Steel cable (#23) mounting plate and eyebolt, and fix the other end to (#22) anchor hook of the draw hook, adjust the nut on the steel wire rope to tighten the steel wire rope (refer to figure 20).
- Parts used in this step :
  - (6) Anchor hook (#22)
  - (6) Steel cable (#23)

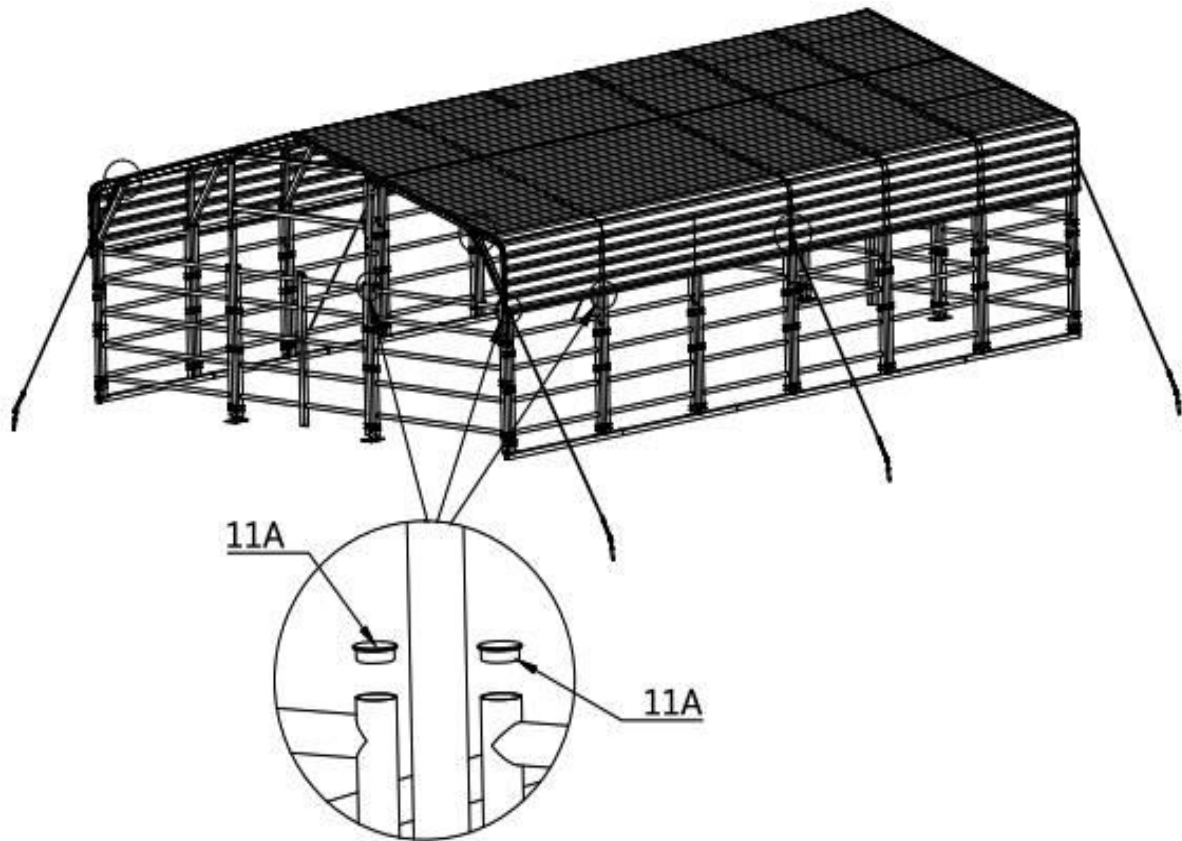




**Figure 20**

**Step 15 : Install the waterproof plug**

- Install waterproof plug (#11A) on the pipe head at the upper end of all upper fence (#13A,#14A), left door (#15L) and right door (#15R) (refer to figure 21).
- Parts used in this step :
  - (40) Waterproof plug (#11A)



**Figure 21**

Now that your building is completely installed, we need to check all components and trusses to make sure the whole structure is rectangular. Check whether the connection of color steel tile fits. We provide (#28) rivets, which can be used to fix the color steel tiles where necessary, so that they can fit together to prevent water leakage.

- All bolts installed in this step can now be tightened. Do not over tighten the bolts, otherwise the pipes or components will be damaged.

### **After the Installation**

Walk around and inspect the shelter periodically to make sure all components are still firmly secured and the whole shelter is well supported. Check all bolts and nuts as well as all connection points to make sure they are all in good position. Check the base plates, adjust the ropes and tie downs if required and clean the cover regularly.

Snow accumulating on the fabric cover must be removed as soon as possible. If snow becomes solid ice on the cover, it will increase the weight on the roof and may collapse the shelter or reduce the life span.

We strongly recommend you remove any snow from the roof immediately. Do not leave any snow load on the roof overnight. Keep 3 feet of clearance on all sides at all times. Do not allow snow to accumulate and pile up on the sides of the building. Otherwise the pressure from the

sides will push inwards and could lead to a collapse.