

**Double Truss Building**  
**Model# 304022T**  
**L12.2 x W9.14x H6.7m**  
**Assembly Instructions**



## RECOMMENDED TOOLS

Equipment List	
Speed Wrench 22#.23#.24#	
Hammer (30lb)	
Rope (12#)	
Long Tape (50m)	
Hammer Drill*1	
Lifter*2	
Crane*1	
Forklift*1	
Protective equipment	

## **YOU MUST READ THIS DOCUMENT BEFORE YOU BEGIN TO ASSEMBLE THE SHELTER.**

Thank you for purchasing our shelter. When properly assembled and maintained, this product will provide years of reliable service. These instructions include helpful hints and important information needed to safely assemble and properly maintain the shelter. Please read these instructions **before** you begin.

If you have any questions during the assembly, please contact local dealer for assistance.

### **SAFETY PRECAUTIONS**

- . Wear eye protection.
- . Wear head protection
- . Wear gloves when handling metal tubes
- . Use a portable GFCI (Ground Fault Circuit Interrupter) when working with power tools and cords.
- . Do not climb on the shelter or framing during or after construction.
- . Do not occupy the shelter during high winds, tornadoes, or hurricanes.
- . Provide adequate ventilation if the structure is enclosed.
- . Do not store hazardous materials in the shelter.
- . Provide proper ingress and egress to prevent entrapment.

### **ANCHORING INSTRUCTIONS**

Prior to assembling this shelter, please read the **MUST READ** document included with the shipment.

**⚠ WARNING:** The anchor assembly is an integral part of the shelter construction. Improper anchoring may cause shelter instability and failure of the structure. Failing to anchor the shelter properly **will void the manufacturer's warranty** and may cause serious injury and damage.

### **LOCATION**

Choosing the proper location is an important step before you begin to assemble the structure.

The following suggestions and precautions will help you determine whether your selected location is the best location.

- . Never erect the structure under power lines.
- . Identify whether underground cables and pipes are present **before** preparing the site or anchoring the structure.
- . Location should be away from structures that could cause snow to drift on or around the building
- . Do not position the shelter where large loads such as snow and ice, large tree branches, or other overhead obstacles could fall.
- . Your shelter's cover can be quickly removed and stored prior to severe weather conditions. If strong winds or severe weather is forecast in your area, we recommend removal of cover.





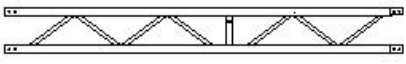

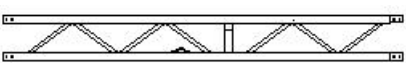
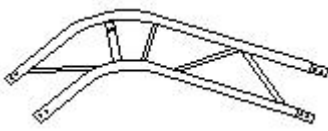
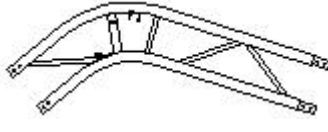
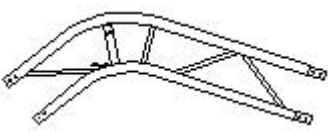
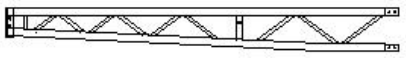
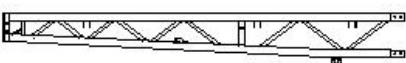
### **SITE**

After choosing a location, proper preparation of the site is essential. The following site characteristics will help ensure the integrity of the structure.




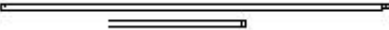
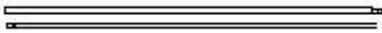
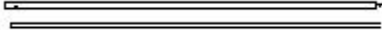
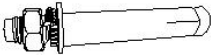





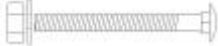


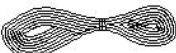
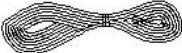


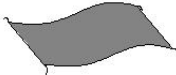
- . The support structure must be level to properly and safely erect and anchor the frame.
- . Drainage: Water draining off the structure and from areas surrounding the site should drain away from the site to prevent damage to the site, the structure, and contents of the structure.


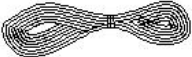








**⚠ WARNING:** The individuals assembling this structure are responsible for designing and furnishing all temporary bracing, shoring and support needed during the assembly process. For safety reasons, those who are not familiar with recognized construction methods and techniques **must seek the help of a qualified contractor.**

## Parts List of 304022 Double Truss Buildings

No.	Parts Name	Parts Drawings	Q'ty	Box No.
1	top truss for 3rd arch		1	B
1A	top truss for 1st arch(front wall)		1	B
1B	top truss for 5th arch (back wall)		1	B
1C	top truss for 2nd and 4th arch		2	B
2	truss for 3rd arch		2	B
2A	truss for 1st and 5th arch(front&back wall)		4	B
2B	truss for 2nd and 4th arch		4	B
3	truss for 3rd arch		2	B
3A	truss for 1st and 5th arch(front&back wall)		4	B
3B	truss for 2nd and 4th arch		4	B
4	narrowed truss for 3rd arch		2	B
4A	narrowed truss for 1st and 5th arch(front&back wall)		3	B

4B	narrowed truss for 2nd and 4th arch		4	B
4C	narrowed truss for 1st arch ( front wall)		1	B
5L	corner base plate (left) for 1st and 5th arch		2	B
5R	corner base plate (right) for 1st and 5th arch		2	B
6L	middle base plate (left) for 2nd, 3rd, 4th arch		3	B
6R	middle base plate (right) for 2nd, 3rd, 4th arch		3	B
7	base plate for front wall (with square tube)		2	B
7A	base plate for back wall (with square tube)		3	B
8	upper upright of front door		2	B
8A	upper truss post for back wall		2	B
8B	upper truss post for back wall-middle		1	B
9	lower truss post for front door		2	B
9A	lower truss post for back wall		3	A
9B	middle truss post for back wall		1	B
10	side rail for front and back wall		4	B
10A	middle rail for back wall-lower		2	B
10B	middle rail for back wall-upper		2	B
11	purlins		28	B
12	bottom tension tube for front and back wall-side		4	B

12A	bottom tension tube for back wall-middle		2	B
13	self adhesive felt		30+2	A
13A	cable tie for fixing felt No.13		30+2	A
14	tension tube for roof cover		8+2	B
15	front door bracing tube		6+6	B
16	front door bracing tube-bottom		1+1	B
17	expansion bolt		50+6	A
18	hex bolt for truss arches connection		120+20	A
18A	hex bolt for base plate connection		40+6	A
19	hex bolt for purlins connection		35+6	A
20	bolt for connection plate		34+4	A
21	bolt for door post connection		80+10	A
21A	carriage bolt for rail (installing hand winch) No.33		2+2	A
22	Φ32/Φ40mm Plastic plug		13+4	A
23	roof steel ropes		16	B
24	side steel ropes		8	B
24A	bottom steel ropes		8	B
25	M12 Buckle bolt		32	A
25A	Clip Lock		64+4	A
26	roof cover		1	A

27	back cover		1	A
28	Φ8 nylon ropes		11+2	A
29	front cover		1	A
30	tension straps		42+2	A
31	hanger rod(Φ48*1140mm)		1	B
32	door beam(Φ60*1940/2050mm)		1+1	B
33	winch bracket(□40*60*2010mm)		1	B
34	PVC pipe		4m*8+2.3m*2	A
35	winch		1	A
36	pole for pulling door		1	B

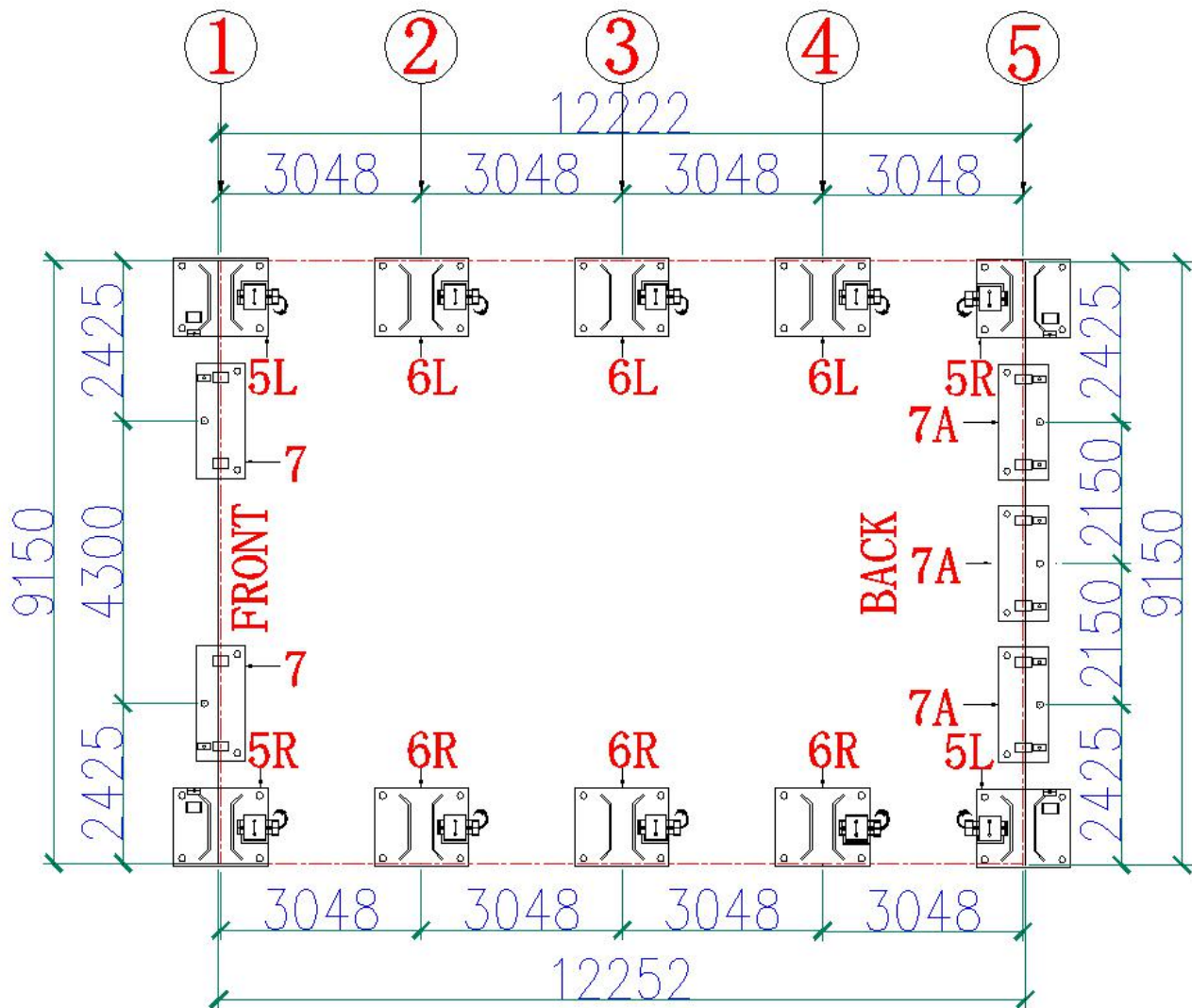
# INSTALLATION PROCESS

## A—BASE PLATES INSTALLATION

Please refer to the below diagram to mark the position of base plates

The measurement is from center to center of base plates. Referring to the diagram and confirm the place of base plates. ENSURE THAT THE FOUNDATION IS SQUARE.

Note: The expansion bolt (No.17) applies for fixing base plate on concrete ground.



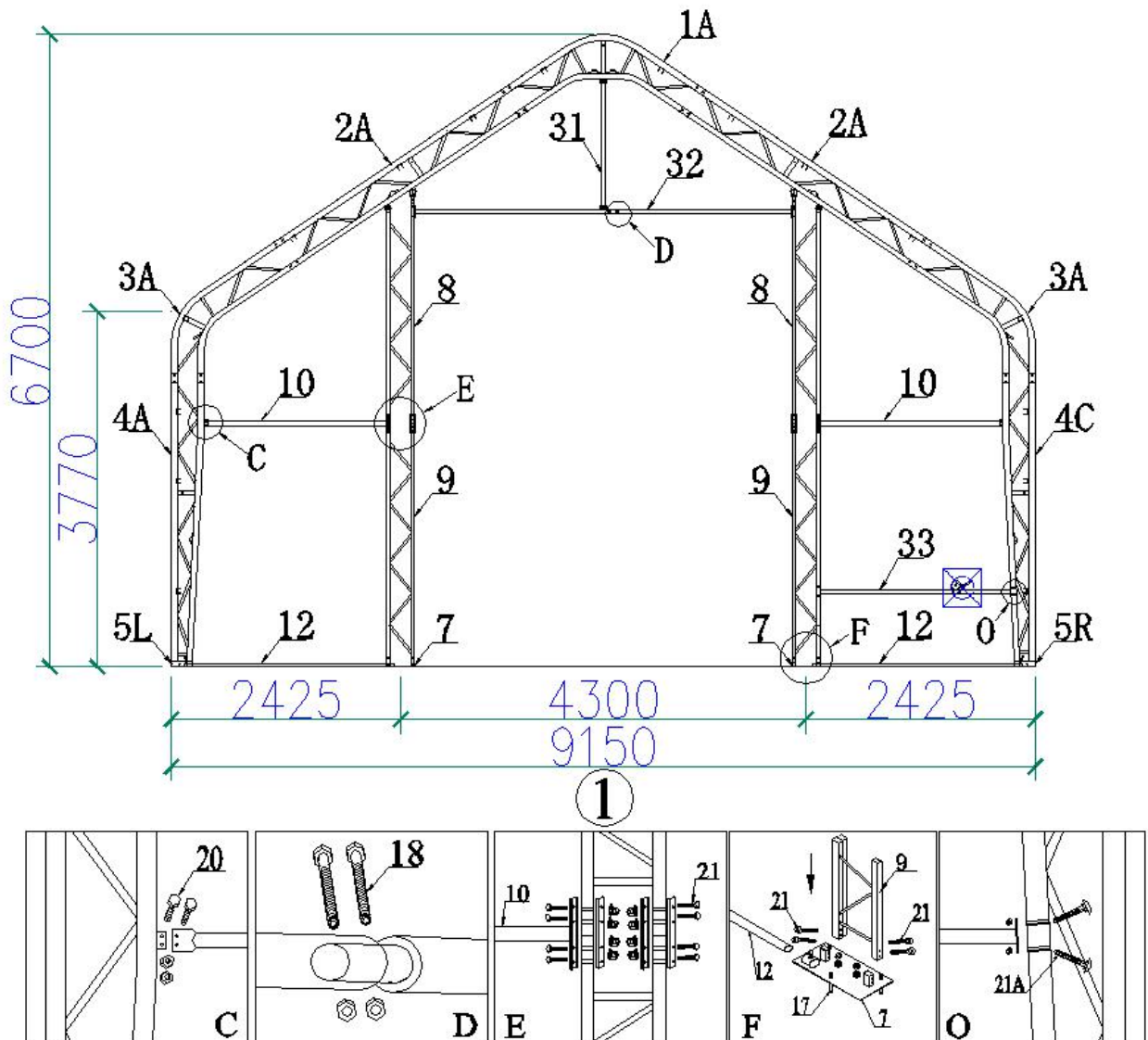
## B—FRAME INSTALLATION

### First Arch and Front Wall Installation

1. Find Trusses (No.1A, 2A, 3A, 4A and 4C) for first arch and connect them by hex bolt M8x70 (No.18).

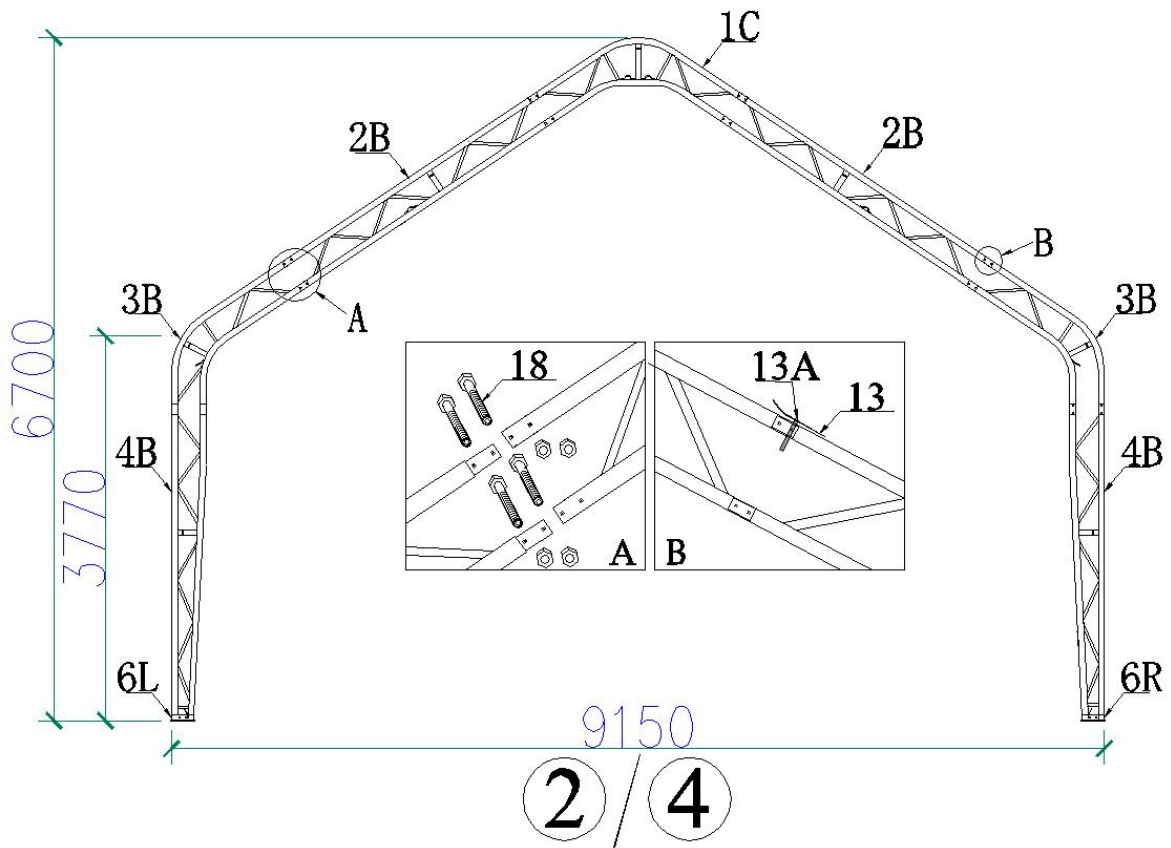


2. Find relative parts of posts and rails for front wall and assemble them according to the below diagram.



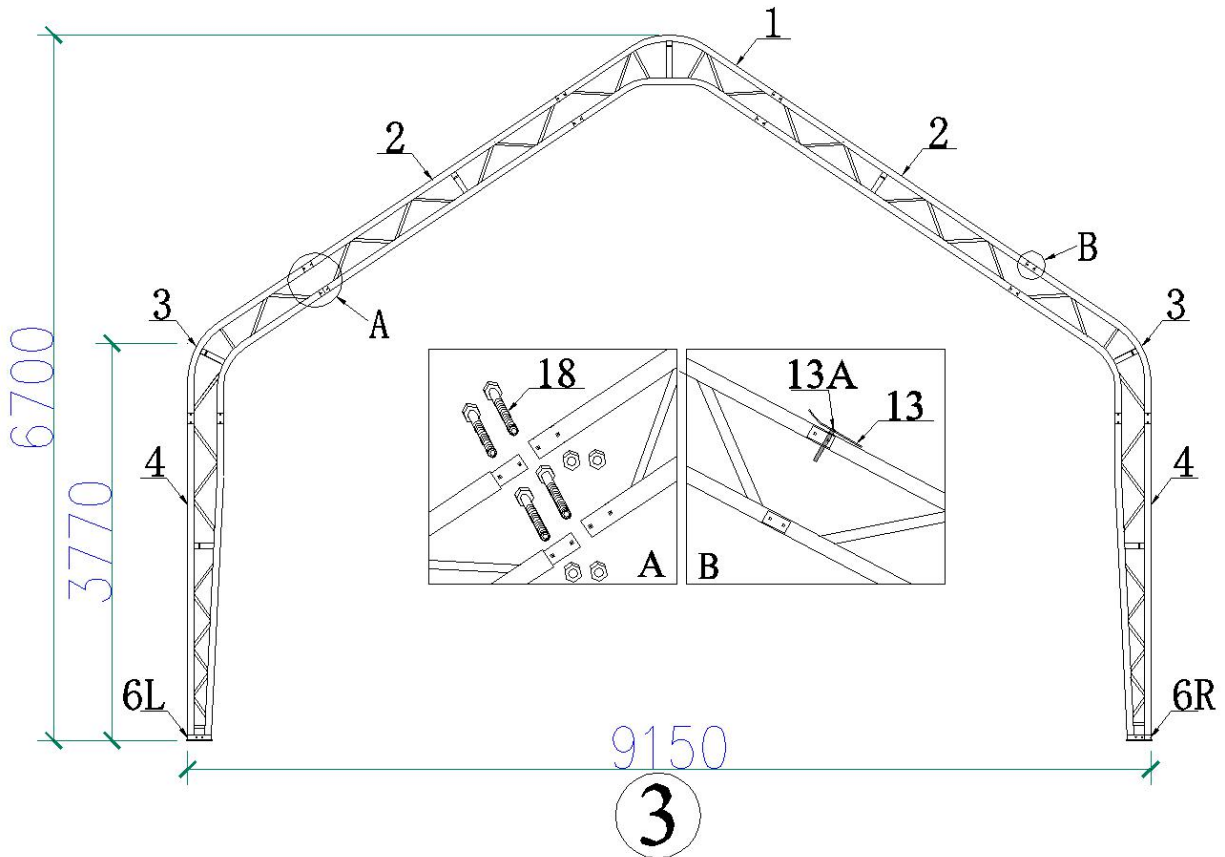
### Second Arch and Fourth Arch Installation

3. Find Trusses (No.1C, 2B, 3B and 4B) for second and fourth arch and connect them by hex bolt M8x70 (No.18).



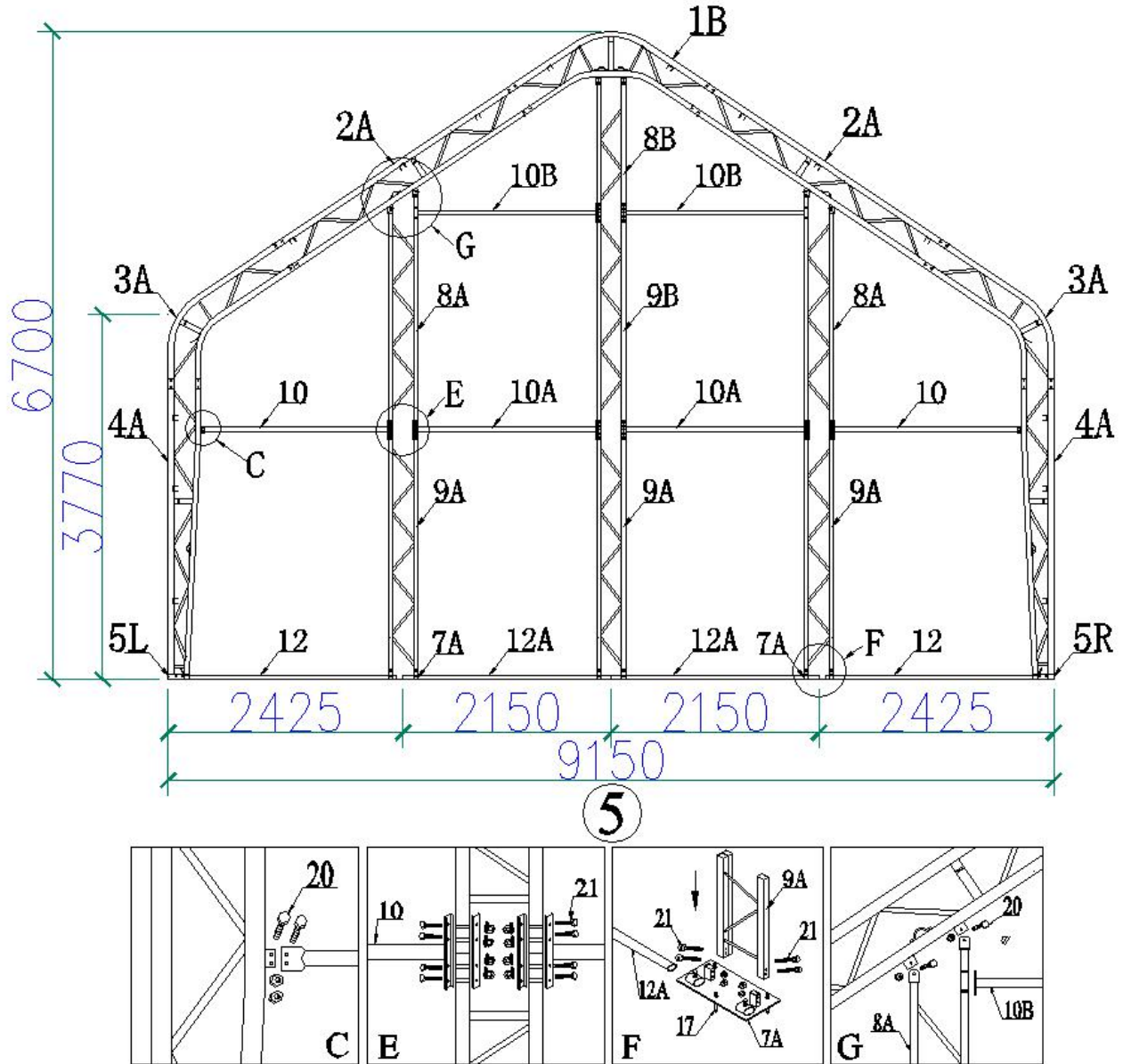
### Third Arch Installation

4. Find Trusses (No.1, 2, 3 and 4) for third arch and connect them by hex bolt M8x70 (No.18).



## Fifth Arch and Back Wall Installation

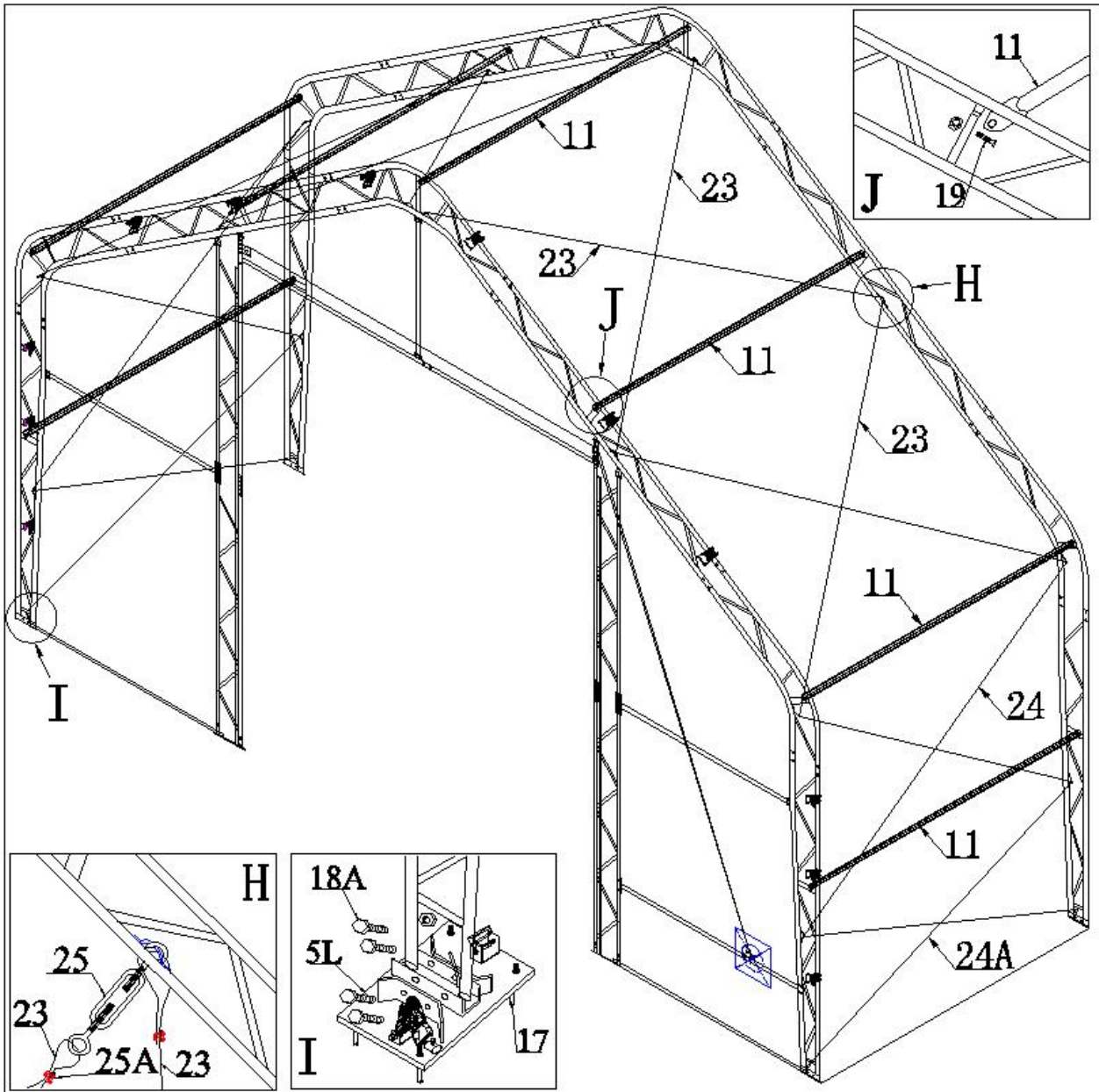
- Find Trusses (No.1B, 2A, 3A and 4A) for fifth arch and connect them by hex bolt M8x70 (No.18).
- Find relative parts of posts and rails for back wall and assemble them as below diagram.

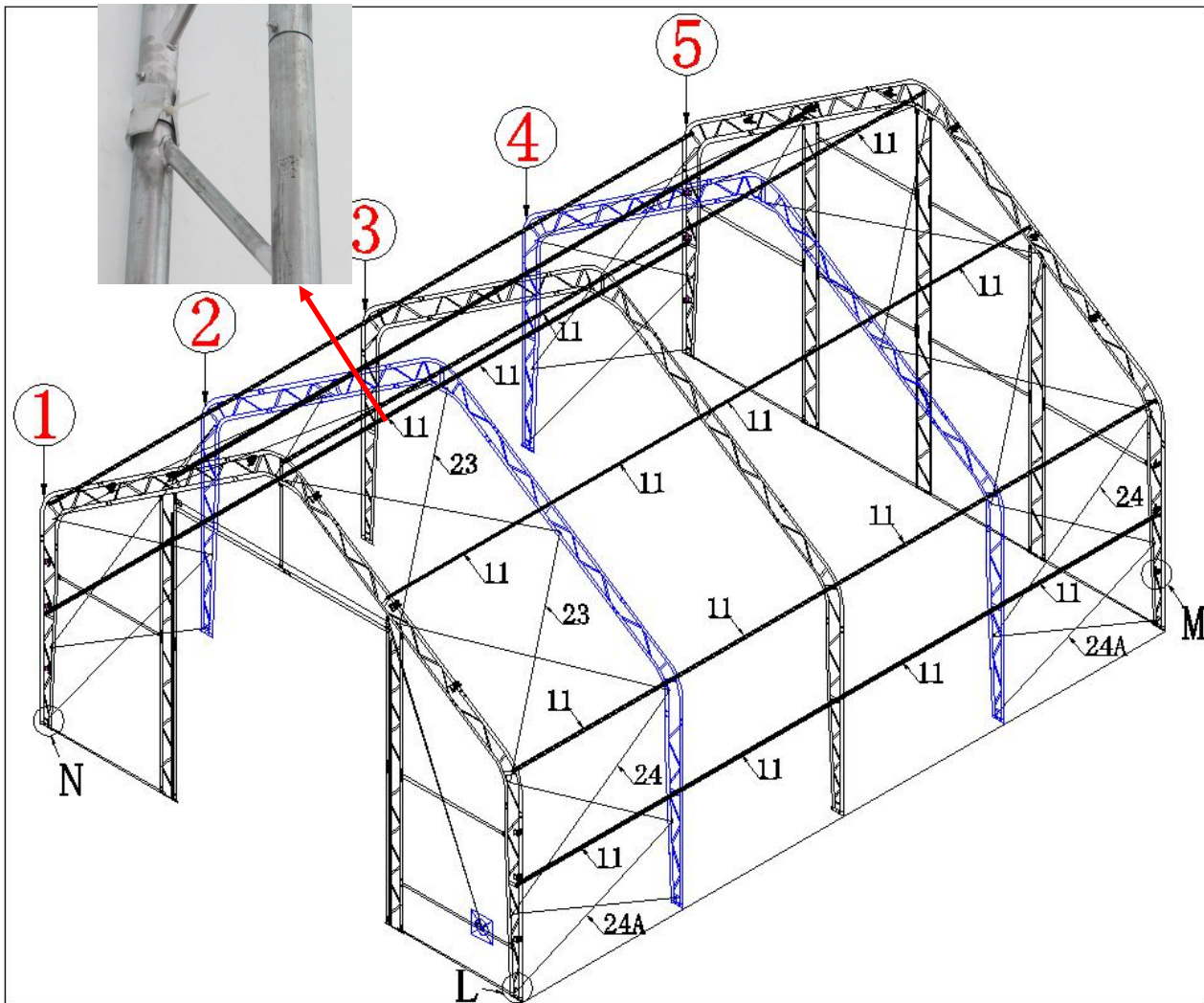


## Purlin and Steel Wire Installation

- Lift the assembled arches onto base plates (No.5L, 5R, 6L and 6R) and connect them by hex bolt (No.18A).
- When finish installing the first and second arches, install purlin (No.11) and connect them by hex bolt M10x70 (No.19). Then the third arch and purlins. In this turn, one arch and then purlin tubes until the fifth arch.

9. Install steel wires (No.23, 24 and 24A) between arches by turnbuckles (No.25) and steel wire clamp (No.25A).
10. Fix the self adhesive felts (No.13) by cable ties (No.13A) on every truss joint to protect the roof cover.





## C-INSTALLING COVER

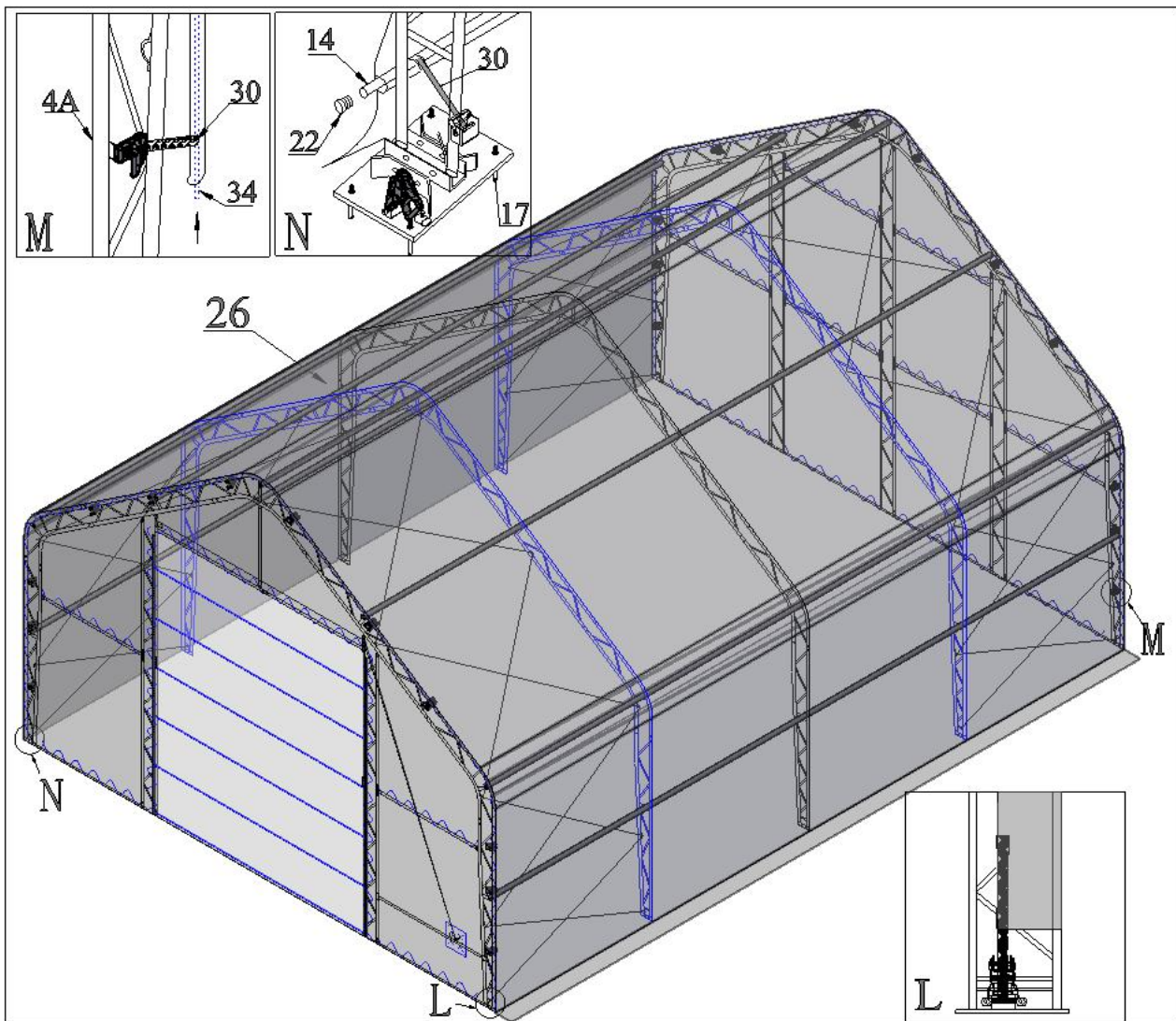
### Roof Cover Installation

NOTE: DO NOT install the cover onto the frame of your building in high wind conditions. A slight breeze is the most advantageous for cover installation. To take advantage of the breeze, pull the cover up over the arches with the breeze blowing in the cover like a sail filled with air.

1. Roll out the roof cover on a ground sheet. Align the cover evenly to each end of the frame. Be sure doing not over pull the end of roof cover.
2. Pull the roof cover over frame **EVENLY, CAREFULLY AND SLOWLY**. Insert tension tube (No.14) into the pipe pockets. Cut a small opening over against every base plate. Put the nylon band (No.30) around tension tube and go through winch on base plate and loosely secure. **DO NOT TIGHTEN**. Adjust the cover so that it is square and evenly centered on the frame.

**Note: The end flaps must overhang evenly at both ends.**

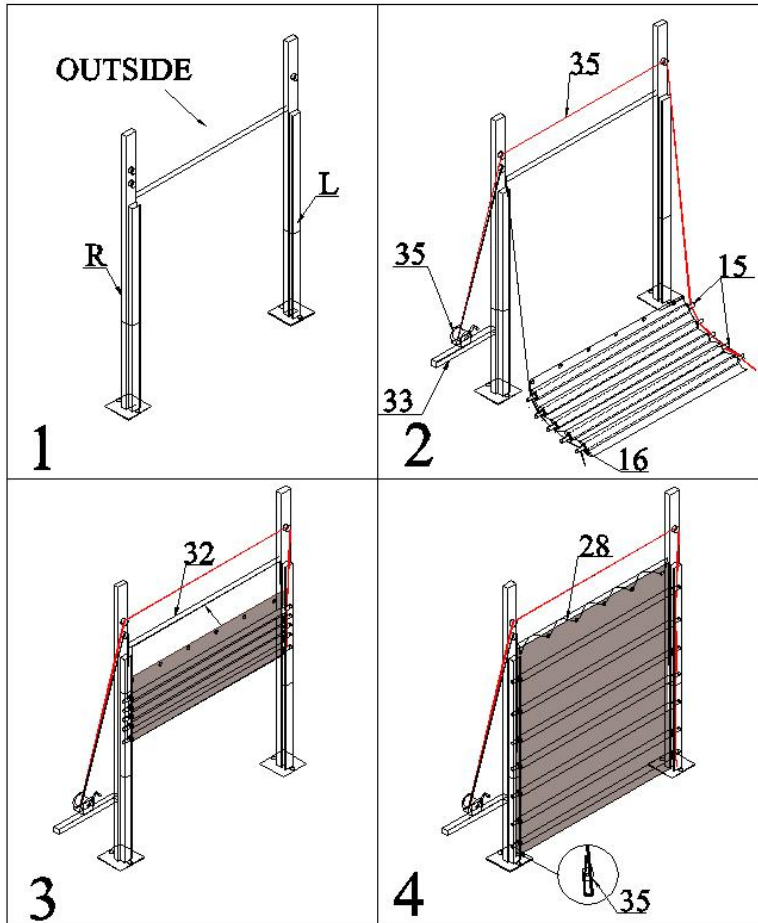
3. Use ropes (No.28) to be fixed to the ends of roof cover to the front wall arches and back wall arches.
4. When roof cover is tidy and ready, drive the winch tie down forth and back and then roof cover is tightened in the vertical direction.
5. Tidy the cover. Pull the strap from the the ends of roof cover, make the cover well fold to end arches and fasten the strap with winch fixed to the base plate.



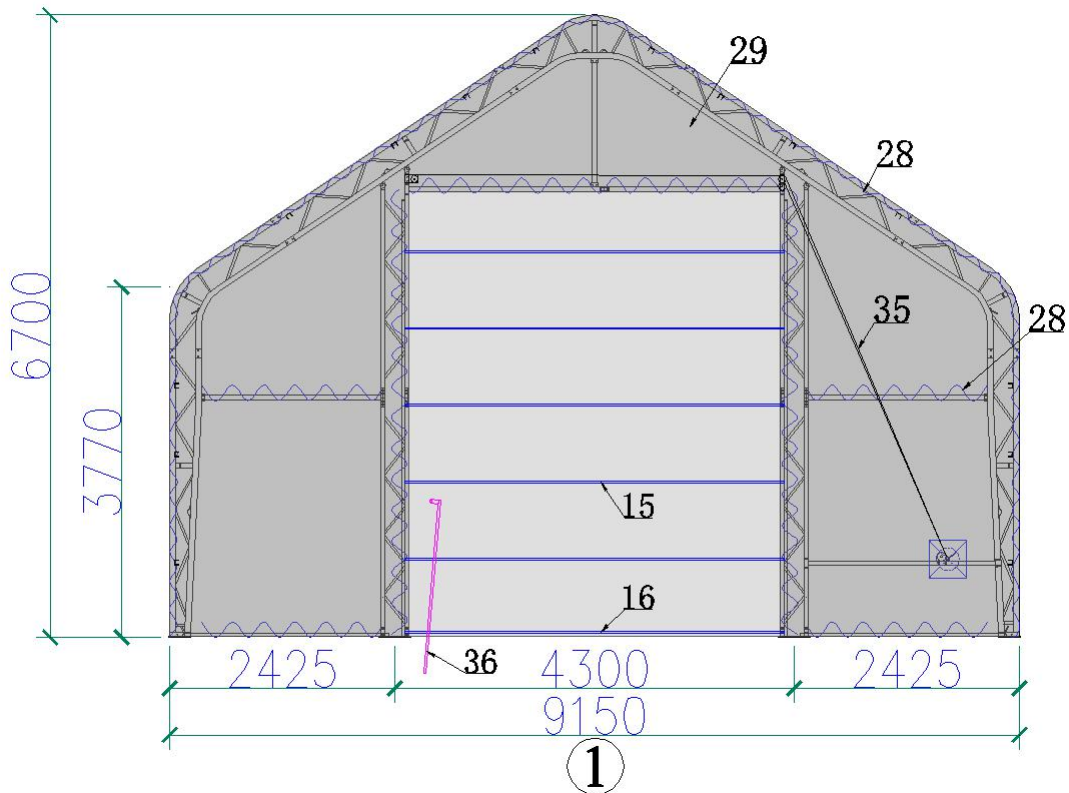
### Front Cover and Mechanical Door and Back Cover Installation

1. Install the mechanical door refer to the diagram below.
2. Install front cover (No.29) to the first arch and posts and rails on front wall by rope (No.28).
3. Install back cover (No.27) to the fifth arch and posts and rails on back wall by rope (No.28).

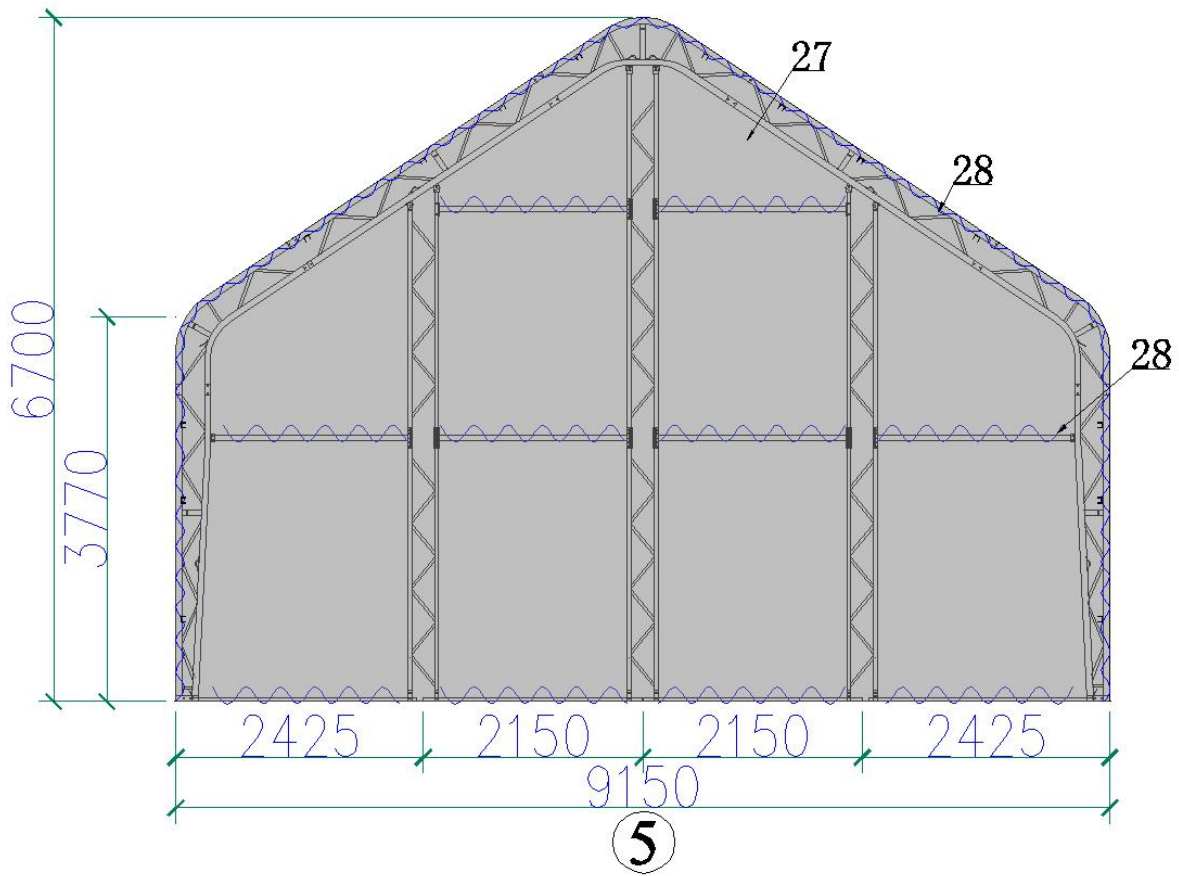
### Mechanical Door Installation



**Front Cover Installation**



**Back Cover Installation**



**Now your assembly is completed**