TMG-DTE4040C-SR35
PRODUCT MANUAL
v.2026.07.30

Snow Series 40' × 40' / 12.2 × 12 M Dual-Truss Pre-Engineered Storage Shelter



⚠ WARNING



This structure is intended for temporary outdoor storage use only. It is not designed to withstand heavy snow and wind loads and does not come with engineering drawings. To ensure suitable for your specific weather needs, it is your responsibility to verify their appropriateness for your intended use and local weather conditions, especially in areas prone to severe weather.

Please read and understand the product manual completely before assembly

- Check the parts list to make sure all parts are received.
- Wear safety goggles or other protective gear while assembling.
- Do not return products to dealers, who are not equipped to handle returns.

Missing parts or have questions on assembly?
Email: cs@tmgindustrial.com
Or visit: tmgindustrial.com

1. Main Specifications:

Item	Parameter
Assembly size	W12.2 × L12 × H4.6 (m) / 40 × 39.4 × 15.1 (ft)
Outside width	12.2 m / 40 ft, inside width: 11.4 m / 37.4 ft, length: 12 m / 39.4 ft
Ridge peak height	5.2 m / 17 ft+ container height
Peak clearance height	4.6 m / 15.1 ft+ container height

2. Pre-Assembly Requirements & Safety Rules

(1) Carefully review all instructions prior to installation. Comply fully with all local safety codes and industry construction standards throughout assembly.

Mandatory safety equipment includes, but is not limited to:

- Safety helmets, protective eyewear, and fitted work clothing
- Safety harnesses for all personnel working at elevated heights
- Approved ladders, safety work cages, and certified lifting equipment

(2) Inspect every component before installation. All parts are marked with unique part codes; cross-reference the complete parts list to confirm full component delivery.

(3) Schedule installation on a low-wind or wind-free day. Assembly is extremely hazardous under high wind conditions.

(4) No structural modifications to the shelter frame are permitted. Do not hang any heavy objects (including loose frame components) from the frame during assembly.

(5) The manufacturer accepts no liability for property damage or personal injury resulting from improper installation, unauthorized structural alterations, or exposure to extreme weather.

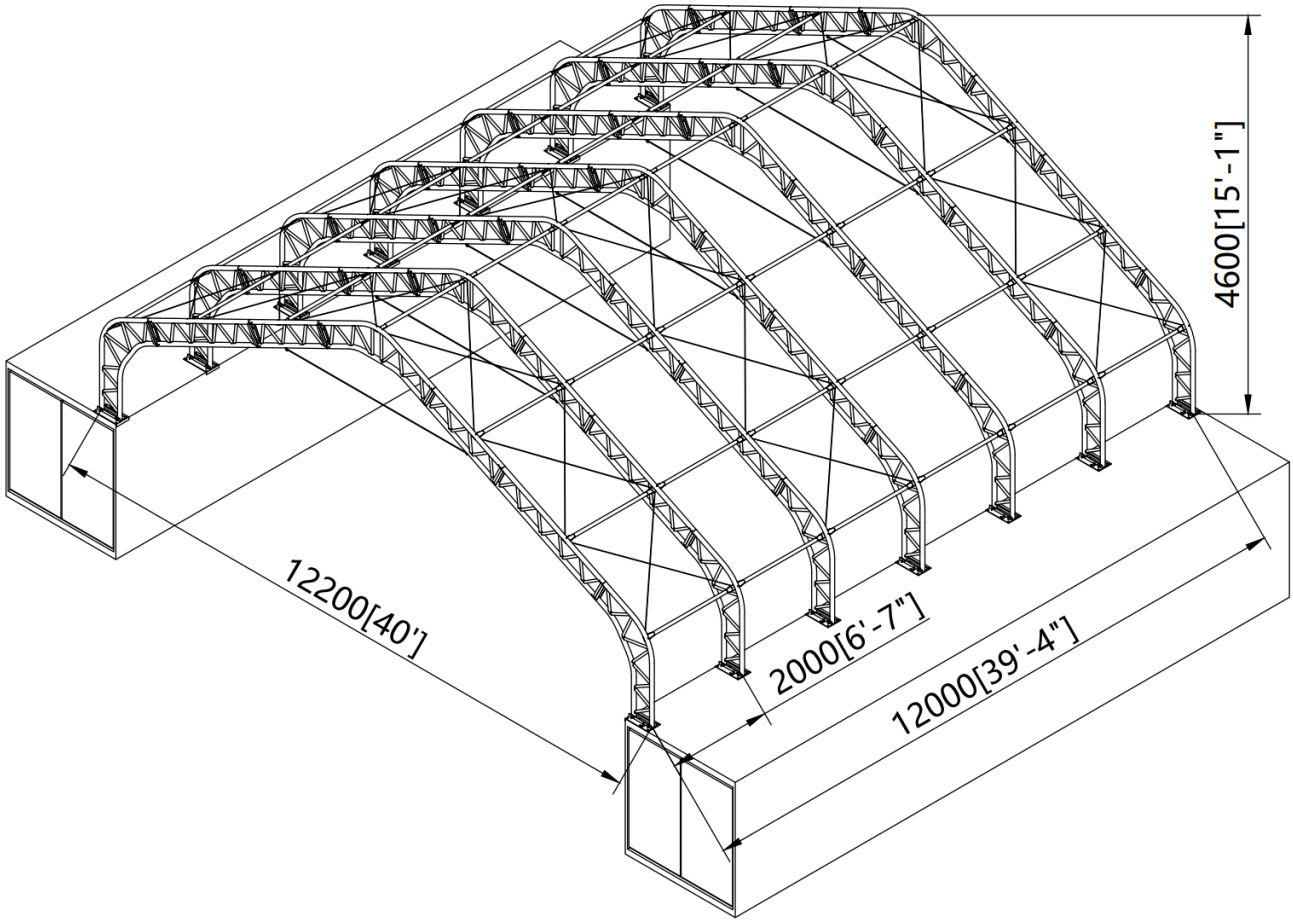
(6) This shelter frame is not designed for permanent human habitation or occupancy.

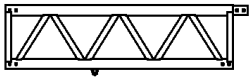
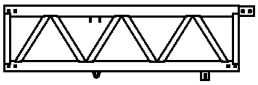
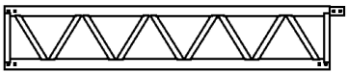
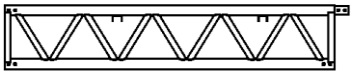
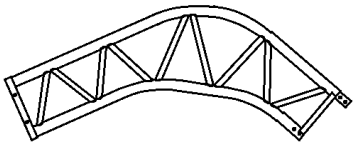
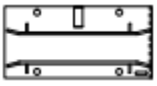
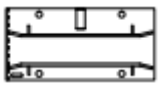
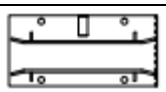
Recommended Protective Step

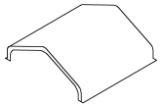
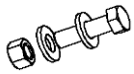
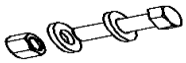
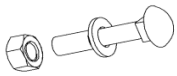
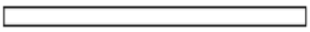
Wrap all tube joint connection points with heavy-duty duct tape. This prevents abrasion and punctures to the fabric cover and extends its overall service life.

3. Frame Structure Diagram

Unit: mm (ft)

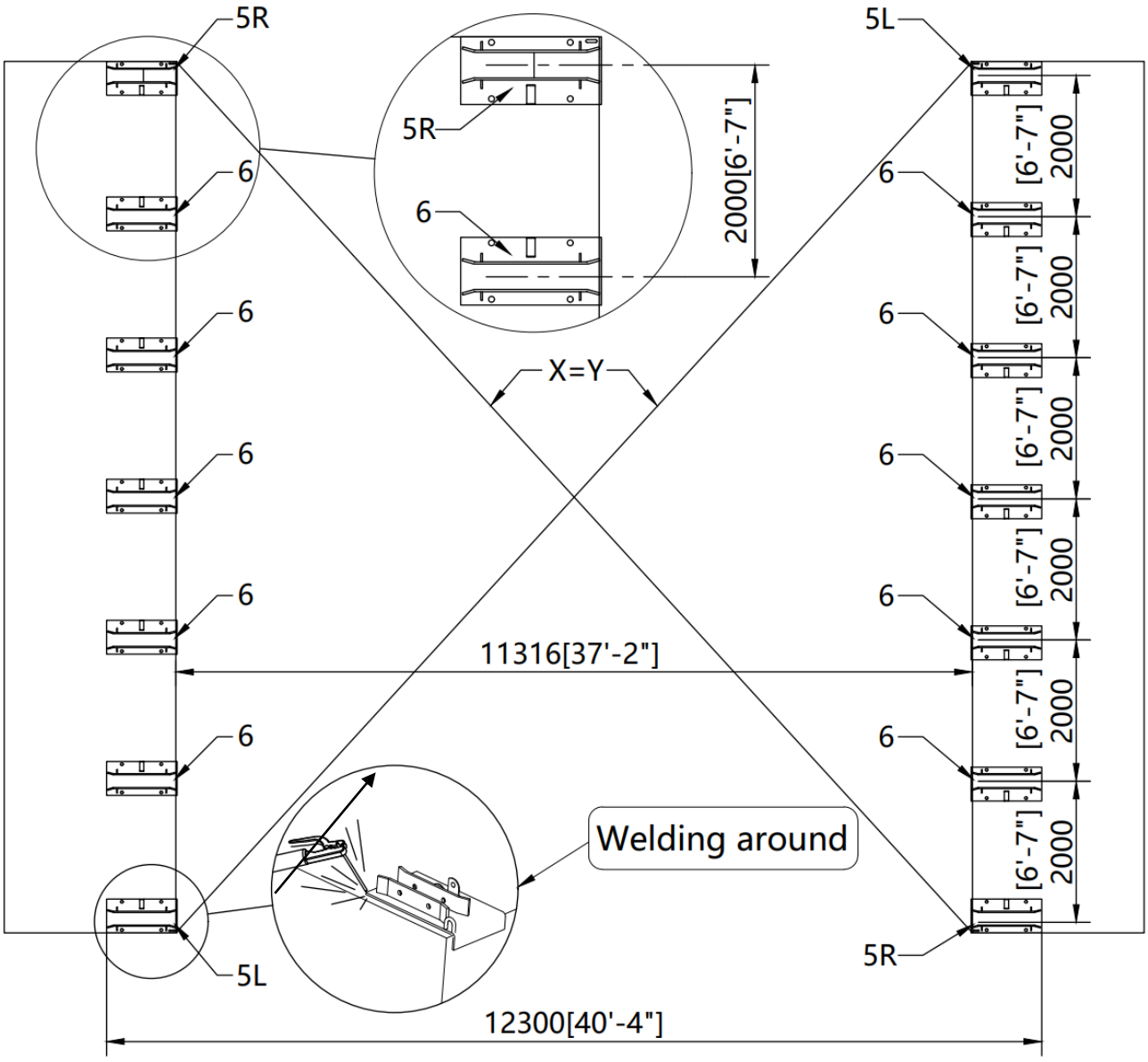


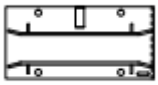
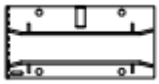
TMG-DTE4040C-SR35 Part List					
Parts Code	Graphical	Description	Length	Qty	Box
1		Peak arch tube (for 5 middle trusses)	L2572mm	5	A
1A		Peak arch tube (for front and rear trusses)	L2572mm	2	A
2		Upper rafter tube (for middle trusses)	L1820mm	10	A
2A		Upper rafter tube (for front and rear trusses)	L1820mm	4	A
3		Lower rafter tube (for middle trusses)	L2600mm	10	C
3A		Lower rafter tube (for front and rear trusses)	L2600mm	4	C
4		Shoulder tube (for middle trusses)	L2587mm	10	B
4A		Shoulder tube (front and rear trusses)	L2587mm	4	B
5		Roof purlin (horizontal tube)	L2040mm	42	B
5L		Base plate for front and rear truss left corners	W240 × L500mm	2	A
5R		Base plate for front and rear truss right corners	W240 × L500mm	2	A
6		Base plates for middle truss	W240 × L500mm	10	A
7		Top cover tension tube (for both bottom sides)	φ32 × L1993mm	12	A
7A		Top cover tension tube (for both bottom sides)	φ32 × L500mm	2	A

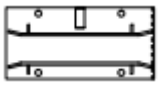
8		Ridge steel tension cables	L3710mm	7	A
8A		Ridge steel tension cables	L2760mm	36	A
9		connecting tube	L220mm	42	B
15		Roof fabric tarp cover	W17.2 × L13.4m	1	A
24		Hex bolt and nuts	M14 × 30mm	224	A
24A		Hex bolt and nuts	M12 × 100mm	252	A
25		Self locking bolt and nuts	M10 × 100mm	49	A
26		Cable connection plate	W90 × L90mm	42	A
27		Plastic hose (in grooves at both ends of #27A)	φ25 × L4000mm	10	A
27A		Connector (for connection #27)	φ25mm	8	A
28		Tension tube end water plug	φ32mm	4	A
29		Ratchets	3T	46	A
29A		Tie down straps (for #29 and front and rear arches)	W38 × 1000mm	46	A
30		Scratch resistant tape	L10m	3	A

Step 1: Baseplate positioning and installation

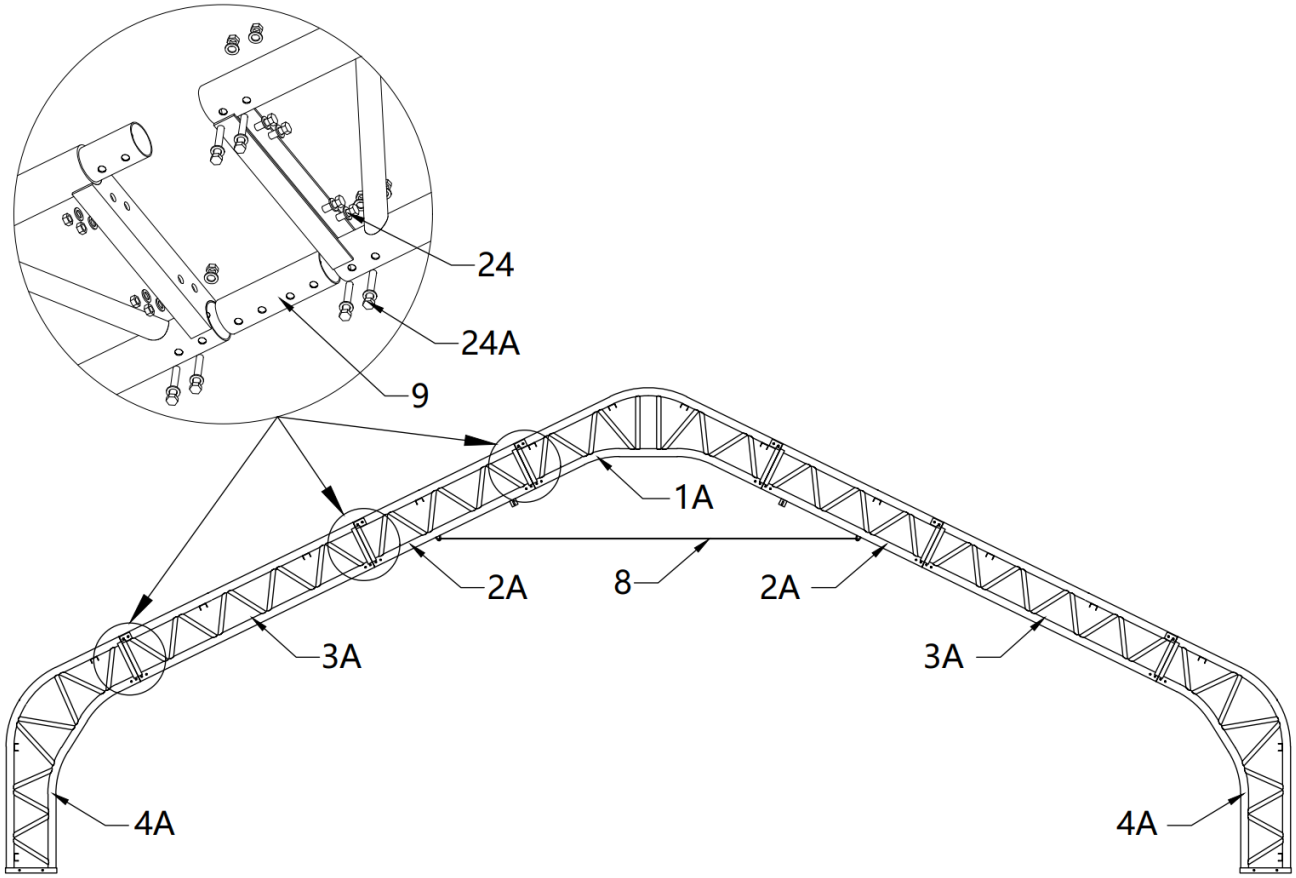
Unit: mm (ft)

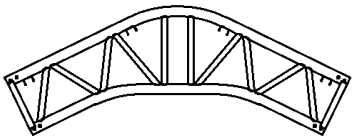
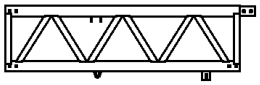
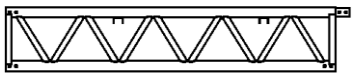
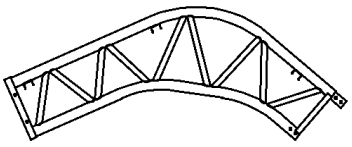


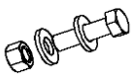
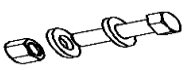
No.	Part	Qty
5L		2
5R		2

No.	Part	Qty
6		10

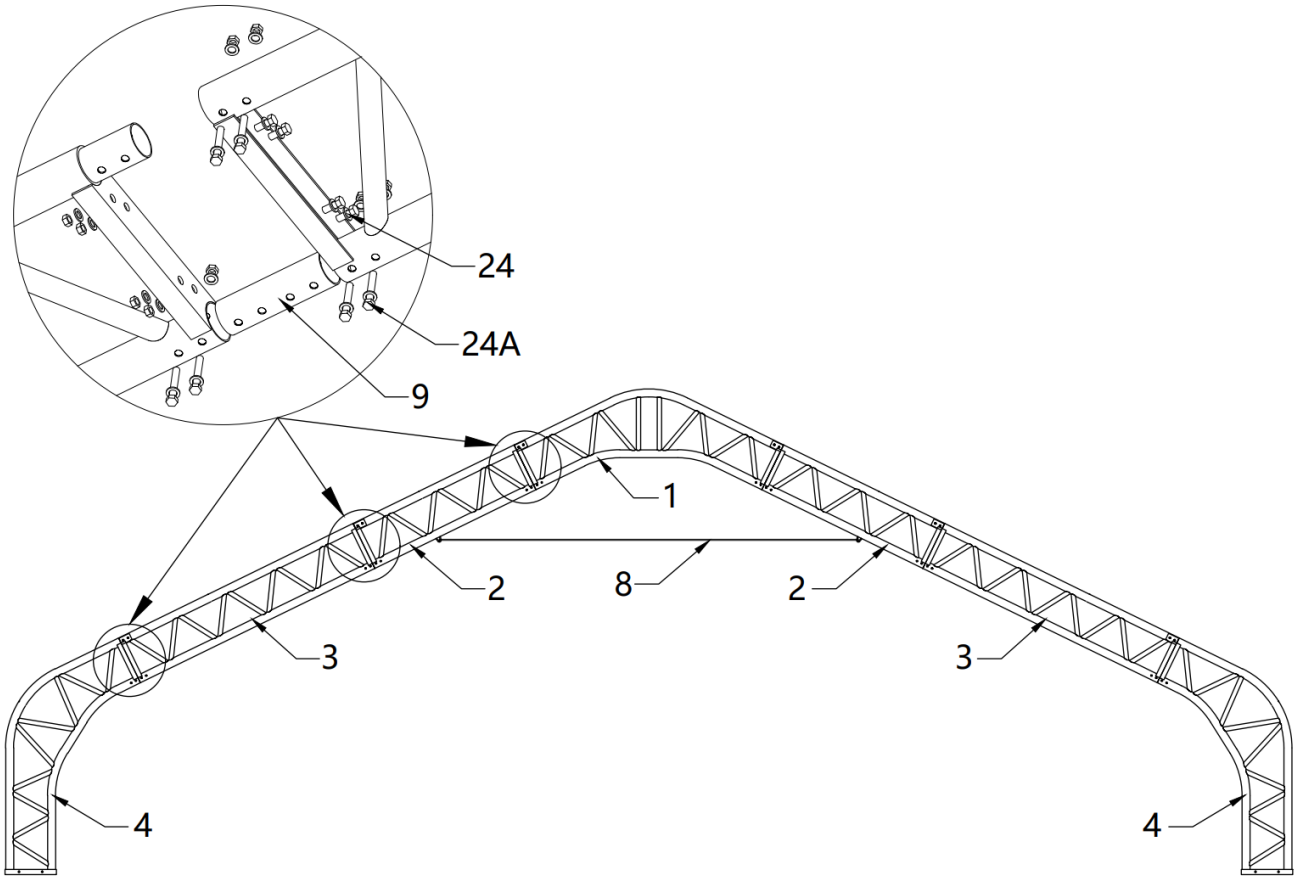
Step 2: Installation of Front and Rear 2 Group Trusses

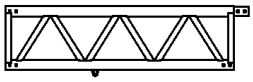
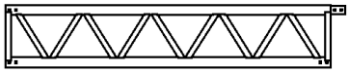
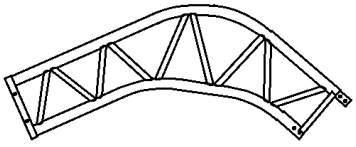


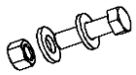
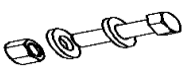
No.	Part	Qty
1A		1×2
2A		2×2
3A		2×2
4A		2×2

No.	Part	Qty
8		1×2
9		6×2
24		24×2
24A		36×2

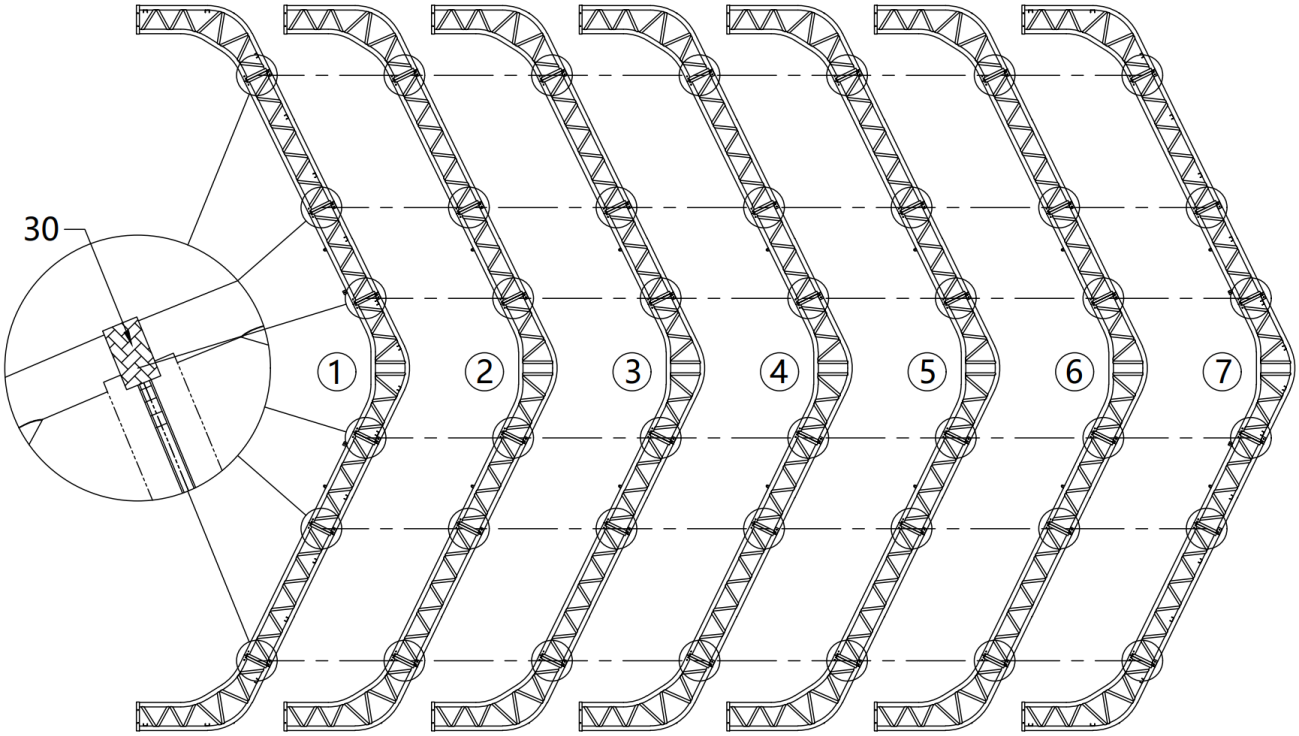
Step 3: Installation of Middle 5-Group Truss



No.	Part	Qty
1		1×5
2		2×5
3		2×5
4		2×5

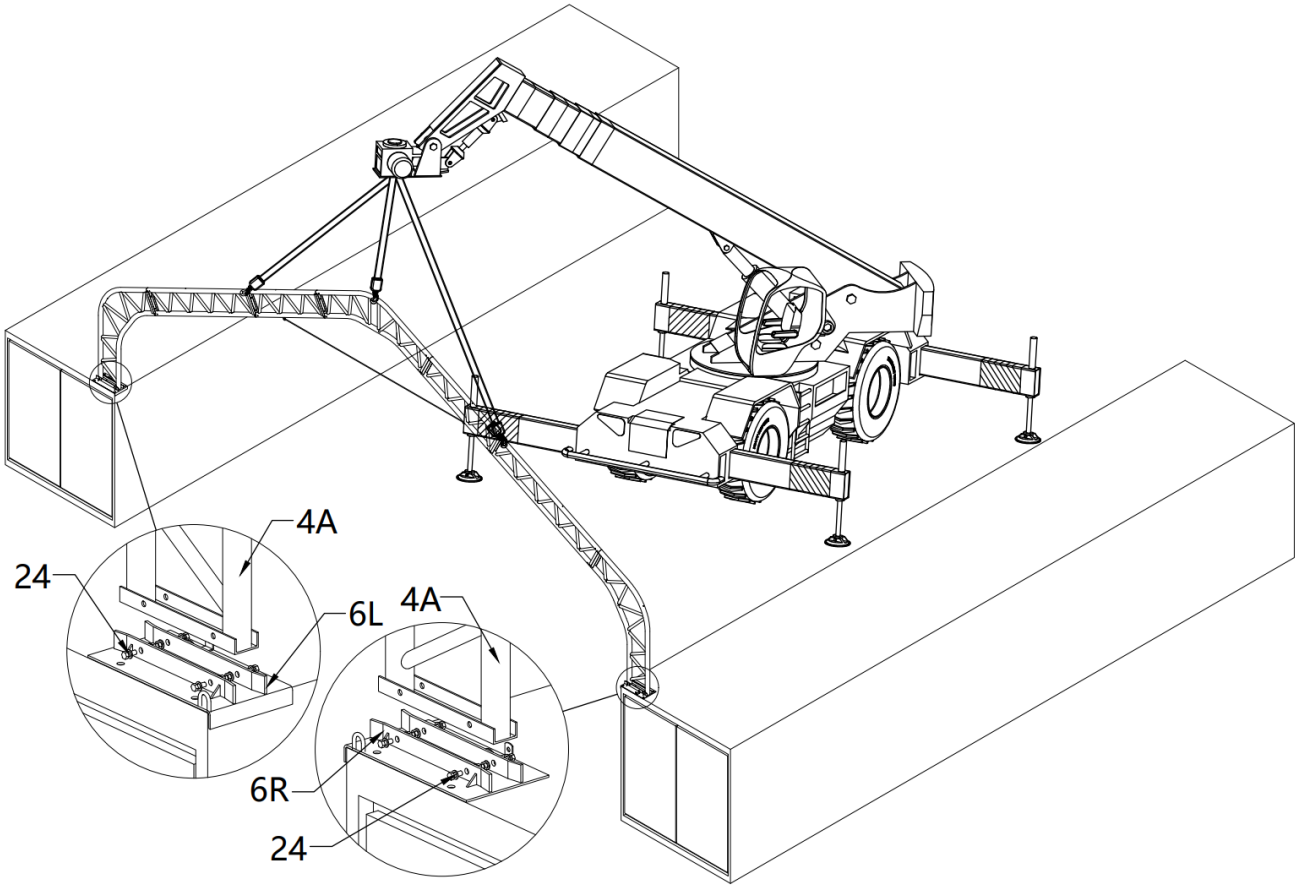
No.	Part	Qty
8		1×5
9		6×5
24		24×5
24A		36×5

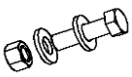
Step 4: Wrap (#30) around the sharp points of the joint to avoid friction between the fabric and the interface



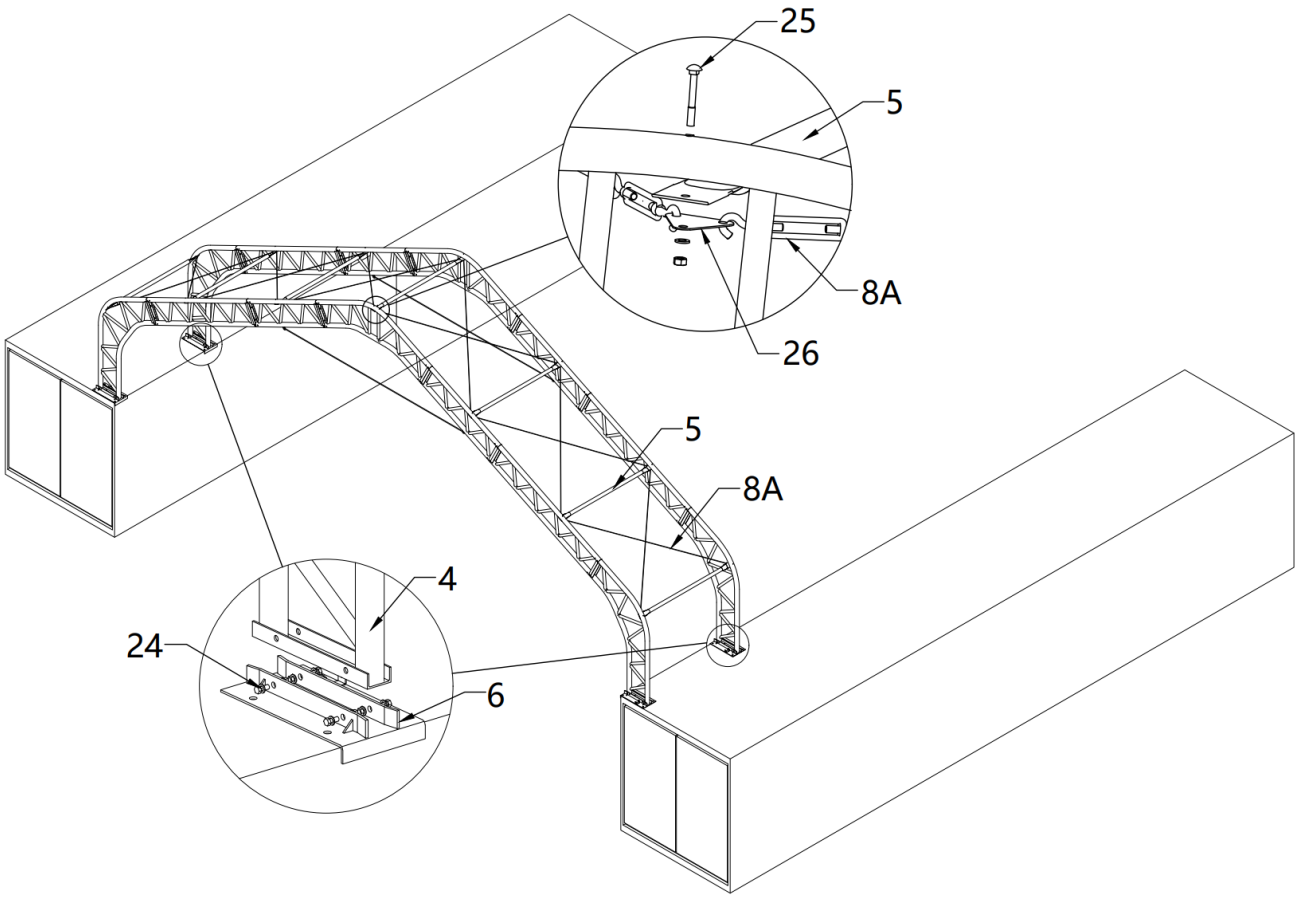
No.	Part	Qty
30		3

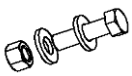
Step 5: Put up the front truss (it is suggested to use a crane for hoisting)

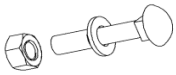


No.	Part	Qty
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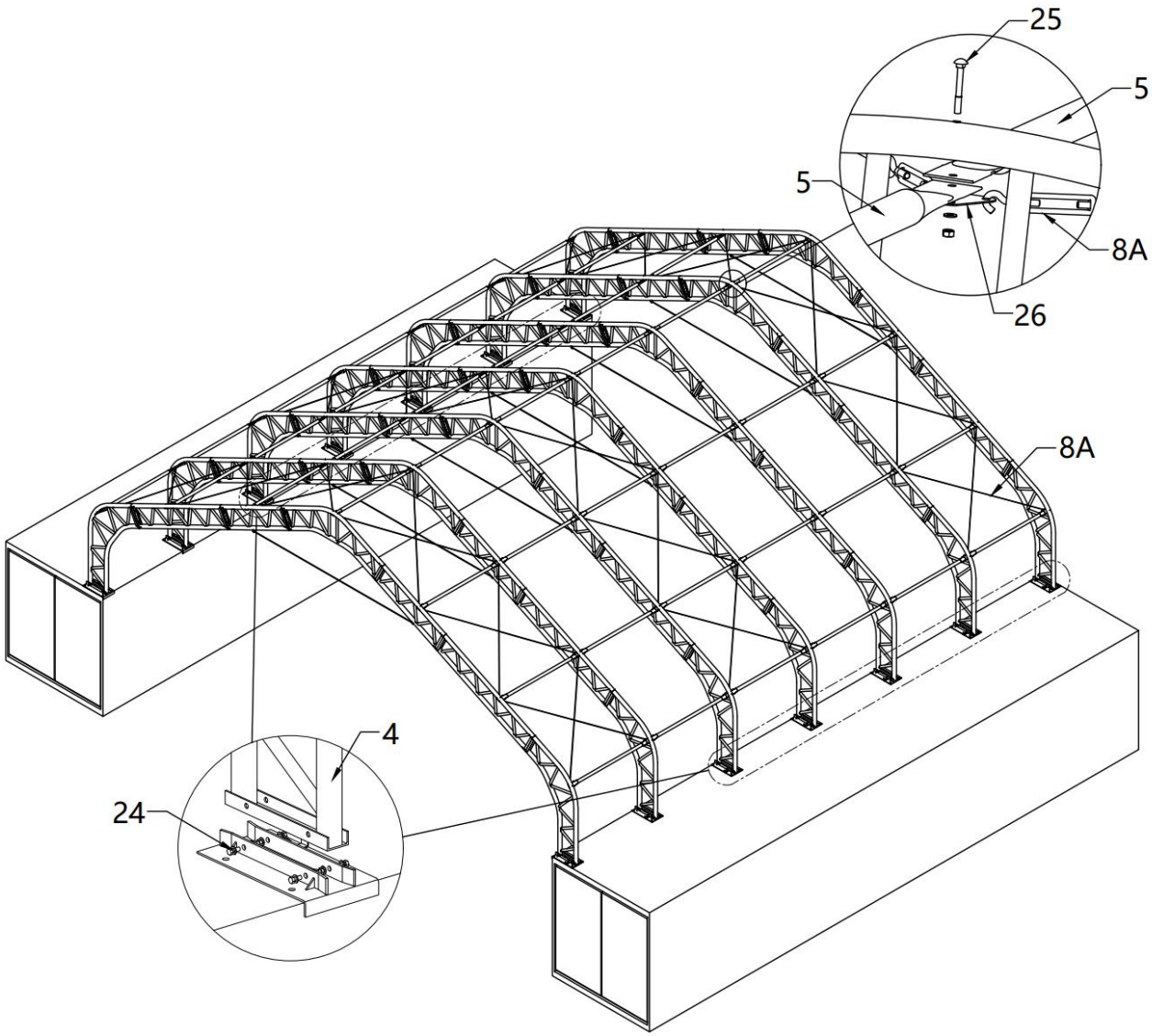
Step 6: Put up the 2nd truss, and connect all purlins (#5) between the 1st and 2nd

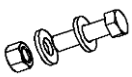


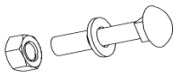
No.	Part	Qty
5		7
8A		12
24		8

No.	Part	Qty
25		14
26		14

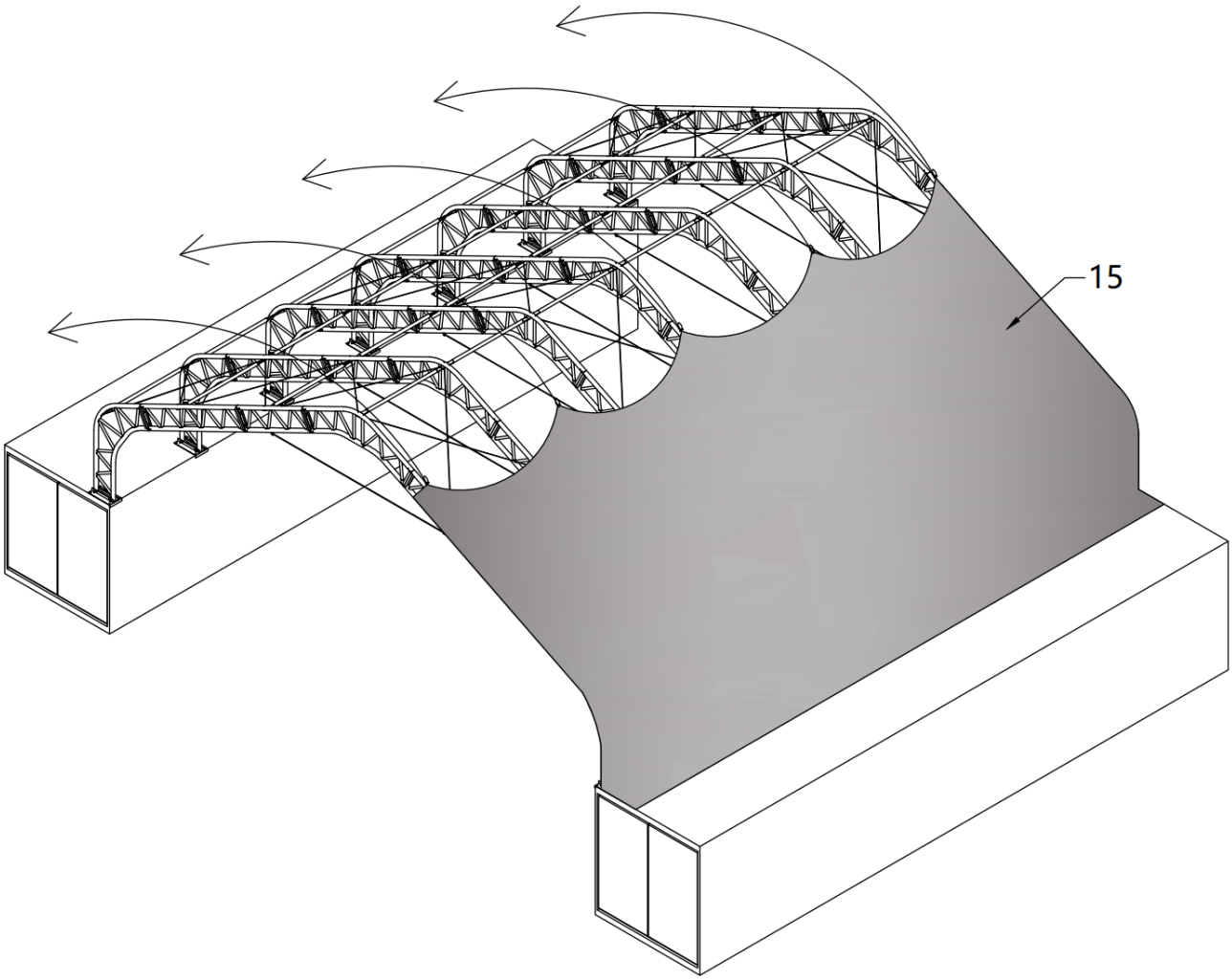
Step 7: Repeat the above steps to install all remaining trusses and attach all purlins

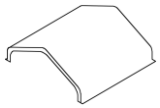


No.	Part	Qty
5		35
8A		24
24		40

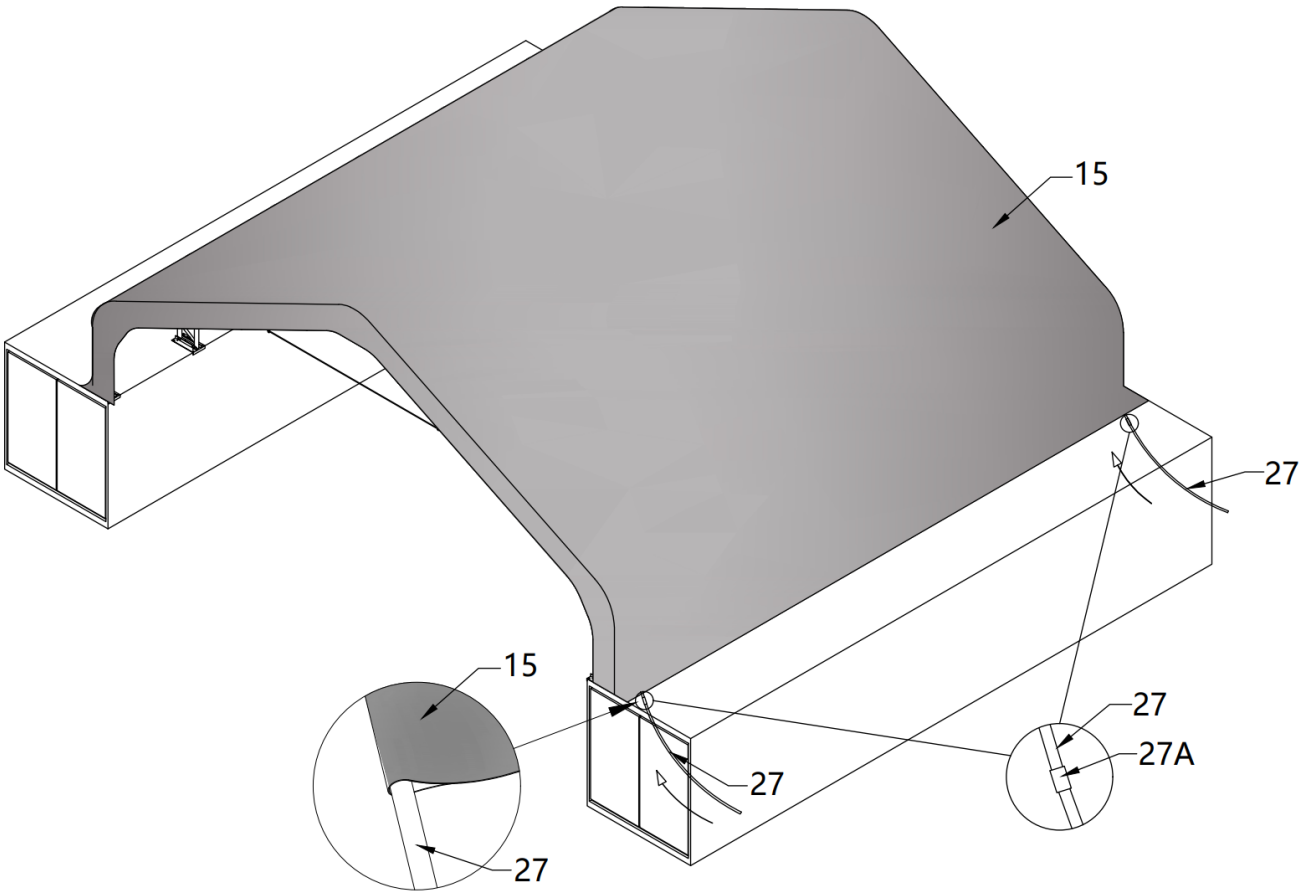
No.	Part	Qty
25		35
26		28

Step 8: Install the top covering



No.	Part	Qty
15		1

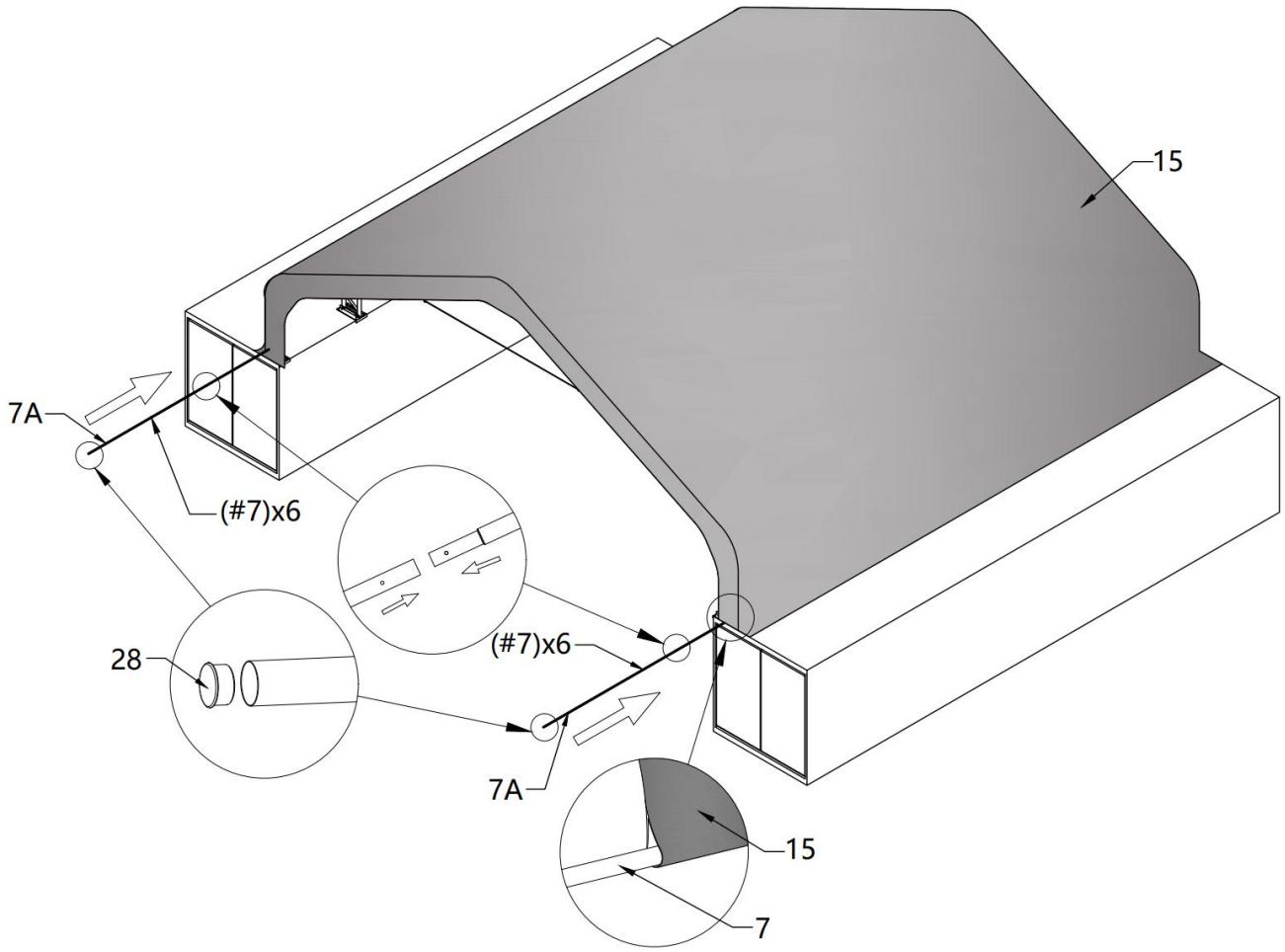
Step 9: Install the hose on both ends of the top covering



No.	Part	Qty
27		10

No.	Part	Qty
27A		8

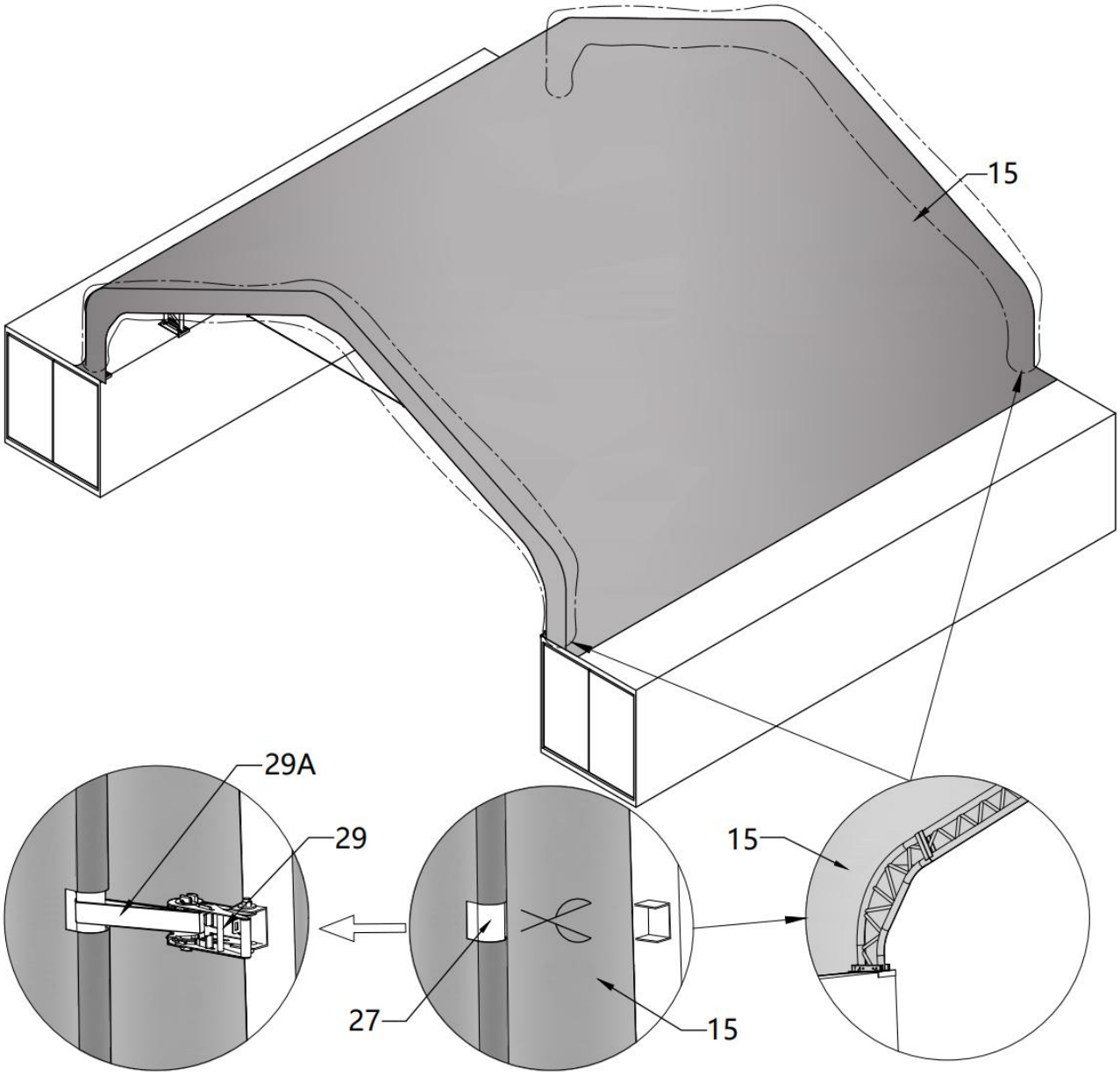
Step 10: Install metal pipes on both sides



No.	Part	Qty
7		12
7A		2

No.	Part	Qty
28		4

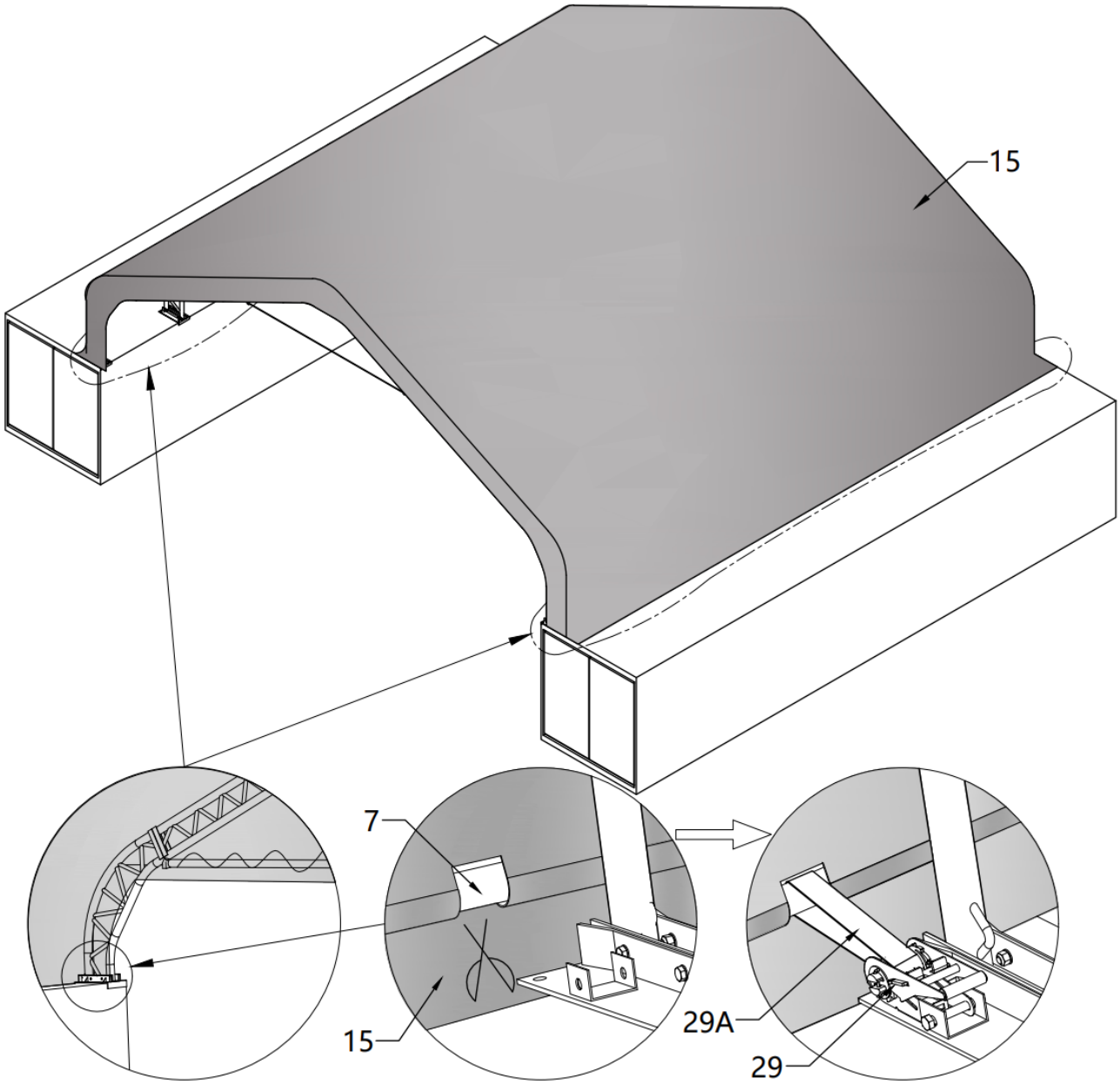
Step 11: Tension both ends of the top covering using the tensioning device



No.	Part	Qty
29		32

No.	Part	Qty
29A		32

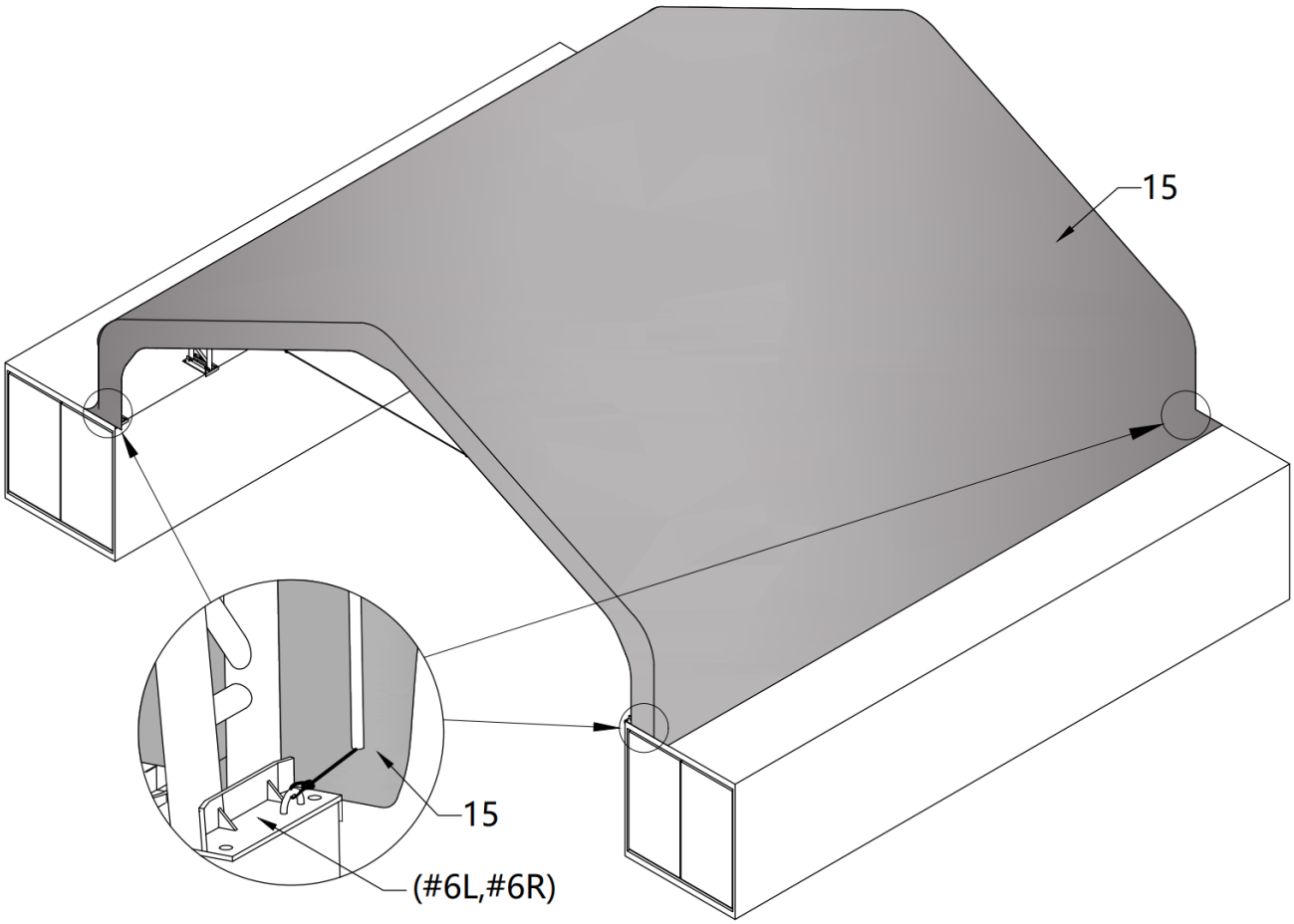
Step 12: Tension both sides of the top covering using the tensioning device



No.	Part	Qty
29		14

No.	Part	Qty
29A		14

Step 13: Tie the rope



Regular Inspection & Daily Maintenance

Walk around the shelter for periodic inspections to confirm all components remain tightly fastened and the full frame receives stable structural support. Inspect all bolt-and-nut assemblies and frame connection joints to verify every fitting stays in proper position. Examine base plates, adjust tension cables and tie-down straps when necessary, and perform regular cleaning on the fabric roof cover.

Any snow buildup on the fabric tarp must be cleared off immediately. If snow freezes into solid ice on the cover, it will drastically increase roof load weight, which may cause structural collapse or prematurely shorten the service life of the shelter.

Install the shelter on consistently dry ground. Do not submerge the fabric bottom skirt in standing water for extended periods, as prolonged water exposure will accelerate fabric degradation.

Critical Snow Load Safety Guidelines

We highly recommend removing all snow from the roof without delay. Never allow snow weight to remain on the roof overnight. Maintain a minimum clearance of 3 ft (1 m) around all four sides of the shelter at all times. Prevent snow drifts from piling up against the shelter's side walls. Built-up snow along the sides creates inward lateral pressure on the frame, which will eventually lead to structural failure.

WARRANTY INFORMATION: Please refer to our website for detailed warranty conditions and coverage.
For the most up-to-date and comprehensive warranty information, visit **www.tmgindustrial.com**