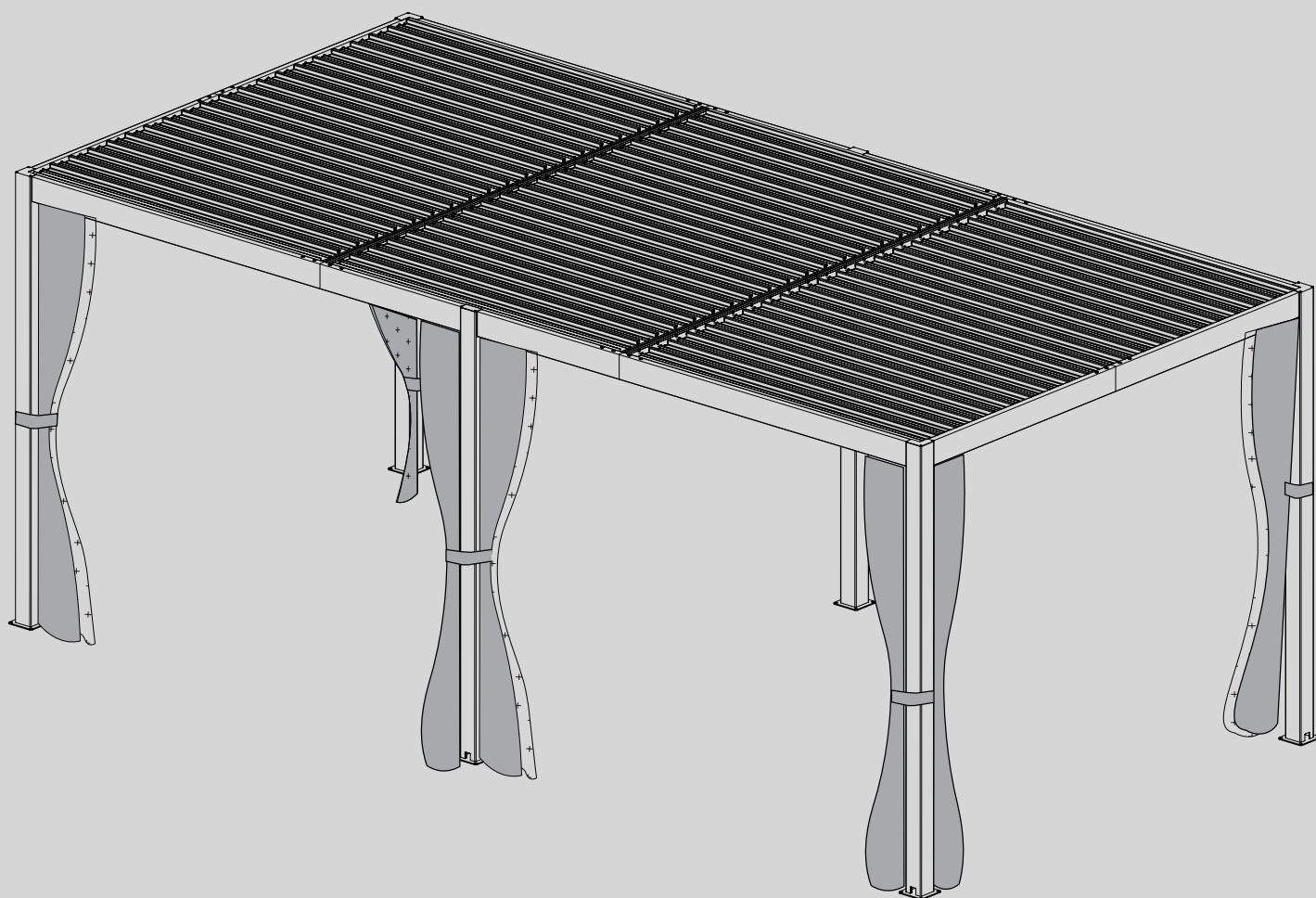
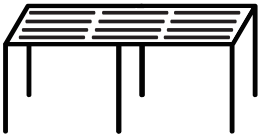




20'x10' Outdoor Louvered Pergola

Operating Instruction



THANK YOU FOR PURCHASING THE PERGOLA!

IMPORTANT

The whole pergola is shipped in several boxes, please wait patiently before you receive all of them.

If you have any problems with damaged or missing accessories after receiving it, please contact us in time through shopping email and provide the necessary photos, our team will help you solve it.

Please read the entire manual carefully before installing and using your pergola, and please ensure the manual is kept in a safe place for future reference.

This pergola is suitable for outdoor use, and is primarily intended to protect users from direct sunlight, glare and heat.

Any use or modification to the pergola not included in this manual shall be considered as improper use, which may cause considerable danger to users and property and will void the product warranty.

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BEFORE ASSEMBLING THE PERGOLA

Please read all the instructions carefully before you begin, and follow the steps in the order they are presented.

The installation of a pergola must be done with care due to its constraints and requires a certain level of skills :

- Measurement and leveling of supports and structure.
- Floor drilling Installation of chemical sealing or suitable fixation.
- Work at height and handling heavy loads.

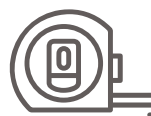
**Make sure you have all the tools required for assembling your pergola.
In order to assemble your pergola safely and correctly, please ensure you have access to the following tools and accessories, all of which are not provided.**



Working gloves
and safety hats



Box cutter



Tape measure
> 3m



Spirit level



screwdriver



Cordless
screwdriver



Wrench set



Hammer



Hammer drill



Drill bit
Φ12



Glue gun

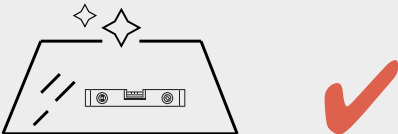
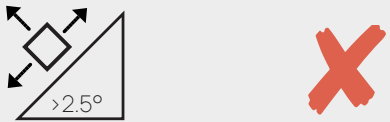


Pencil / Marker



Ladder x2
> 1.5m

Select a suitable location:

The ground should be solid and flat	
	
The ground should be level	
	
Sufficient water drainage	No overhanging trees and powerlines
	

Warning:

Most terraces or patios are designed with a slight slope to prevent (rain) water from forming pools or reaching the house or other structures. For the perfect pergola installation, a level surface without such a slope is required. Small pebbles could also prevent the pergola from being safely secured on the ground.

If the pergola is installed on an uneven surface, it may prevent accessory components from working correctly and may void the product warranty.
Additional adjustment of the pillar heights would also be necessary.

Prepare a foundation:

To prepare it, you need to:

- check for underground pipes and cables (Call 811 before you dig if you live in the USA)
- check with your local authorities regarding any building permits that may be required
- contact a reliable contractor if you decide to have a concrete base

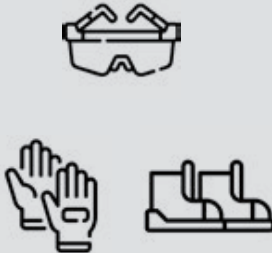
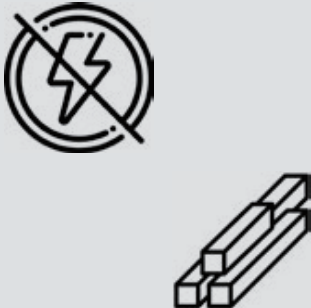
IMPORTANT SAFETY ADVICE

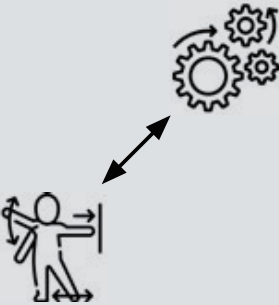
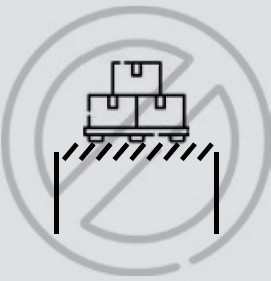
CAUTIONS

1. 2-3 adults or more are recommended to install your pergola (one of steps need at least 3 people to move whole pergola frame). Make sure you are wearing closed toe shoes and installing in a safe environment.
2. DO NOT attempt to assemble or use the pergola in moderate or heavy wind conditions. Always keep the pergola open and secure it during heavy winds or extreme weather conditions to avoid damage to the pergola or personal injury.
3. It is essential to place the pergola on level ground and not less than 6 feet from any obstruction such as fences, pergolas, the house, overhanging branches, laundry lines, or electrical wires.
4. For the convenience to adjust parts connection, never fully tighten the screws until you finish the installation, tighten screws to 80%-90% is enough. (Using the electric drill at a lower rotating speed to avoid damaging the product and screws.)
5. Do not install the pergola when you find damage parts are that parts are missing. Contact your dealer.

WARNINGS

1. NEVER leave children unattended around/under this pergola before it finish assembly.
2. CHOKER HAZARD: This item contains small parts which can be swallowed by children. please keep it away from children under 3 years old and pets during installation.
3. DO NOT allow snow to accumulate on the louver roof. In the case of high winds, heavy snow or other extreme weather conditions, open the louvers and remove manual crank or other unnecessary accessories to avoid potential damage to your pergola.
4. This structure is a non-permanent structure and the warranty does not cover damage incurred under extreme weather conditions including heavy rain, high winds, natural disasters or if exposed to high heat from heaters or BBQs. Warranty does not cover products subject to negligence, abuse usage, inappropriate installation. Damage from exposure to chemicals (including but not only oils ,spills, fluids) won't be covered by warranty.
5. Some parts might have sharp edges/corners. Please follow basic safety precautions to reduce the risk of hurts.

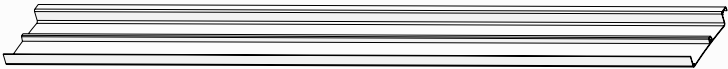
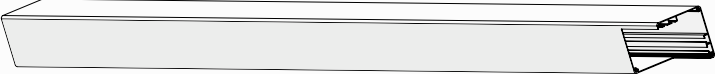
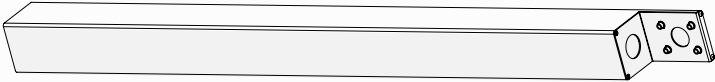
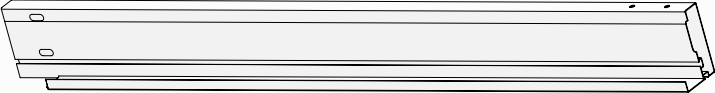
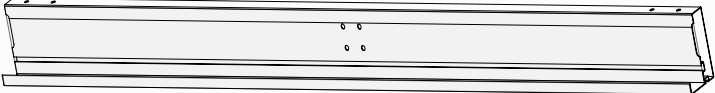
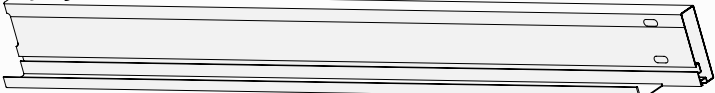
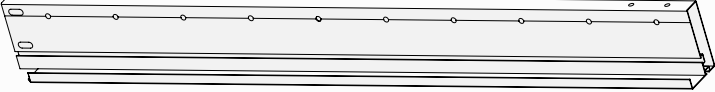
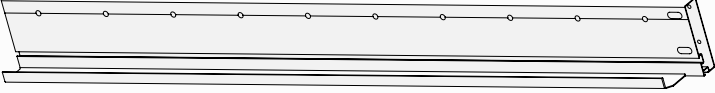
The pergola must be positioned and fixed on flat level surface.	Dispose of all plastic bags safely. Keep them out of the reach of children.	Keep children and pets away from the assembly area until the work is completed.	Always wear appropriate work shoes, gloves and eye protection when working.
			
Work well away from power lines, particularly when handling metal parts.	Do not attempt to assemble the pergola in windy or wet conditions.	If using power tools or a ladder, always follow the manufacturer's safety instructions.	Hot items such as recently used grills, blowtorches etc. must not be stored under or close to the pergola.
			
Make sure the pergola complies with local building regulatory codes.	Working at heights can be dangerous. Always wear protective clothing to prevent injury in the event of a fall.		
			

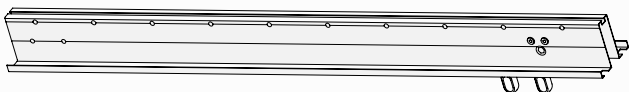
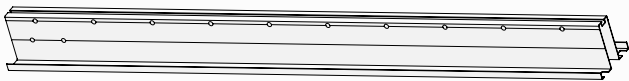
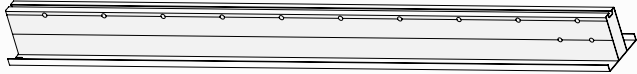
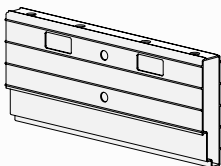
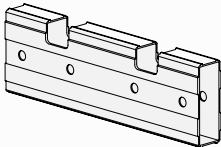
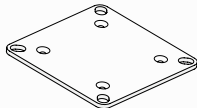
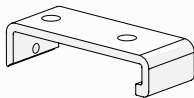
Only use ladders and scaffolding with a sufficiently high load bearing capacity	Dispose of all plastic bags safely. Keep them out of the reach of children.	Prior to each operation, visually check the pergola for damage. If damage is visible, stop using it immediately and contact authorized personnel to repair the damage	Do not touch moving parts during operation.
			
Keep clothing and body parts away from the pergola to prevent them from getting caught in the moving parts .	Do not place anything on the louvers	Hanging objects on the pergola may cause serious damage and is not permitted.	Foliage or other foreign objects on the louvers and in the guide rails should be removed regularly, to prevent damage to the pergola
			
Put the louvers into the vertical position during snowfall or wind to avoid damage.	Do not start the roof mechanism in case of frost or ice build-up, as it may damage the drive of the louvers	Only use replacement parts that are approved by the manufacturer.	Changes to the design or configuration of equipment may not be made without consulting the manufacturer or authorized representative.
		 ✓ Approved	

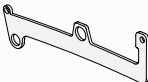
LIST OF PARTS

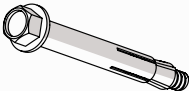
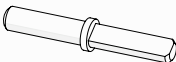
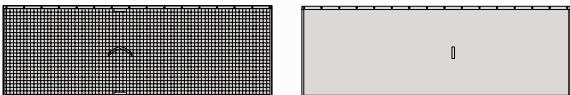
Lay the parts out in separate staging areas:

The labels on parts has the corresponding step number referenced to each part. We recommend that when you look through the parts list, prepare staging areas for each step and place the parts you will need for each step in these areas. Doing this will save you time and effort during assembly. If possible place the parts on cardboard or other soft surface to protect from scratching the painted surfaces.

	REF	PART NAME	QTY	BOX
L		Louver	60 pcs	A/B/C
A		Corner post	4 pcs	D
A2		Middle post	2 pcs	D
B		End beam 1	2 pcs	F
B2		End beam 2	2 pcs	F
C		End beam 3	2 pcs	F
D		Side beam 1	2 pcs	E
E		Side beam 2	2 pcs	E

	REF	PART NAME	QTY	BOX
F		Middle beam with gearboxes 1	1 pc	E
G		Middle beam 2	1 pc	E
F2		Middle beam with gearbox 3	1 pc	E
G2		Middle beam 4	1 pc	E
H		End beam and Side beam connector	6 pcs	E
I		Middle beam connector	2 pcs	E
J1		Connecting strip with control arm	2 pcs	E
J2		Connecting strip with control arm 2	1 pc	
J3		Connecting strip	3 pcs	
K		Crank	2 pcs	E
M		Post plate	6 pcs	E
N			4 pcs	E
O		Middle beam supporter	3 pcs	E

	REF	PART NAME	QTY	BOX
P		M5 Hex key (large) M4 Hex key (Medium) M3 Hex key (Small)	1 set	E
Q		Middle post cover	2 pcs	E
R		Louver end cap	120 pcs	E
S		Connecting strip connector	3 pcs	E
T		Nut strip	14 pcs	E
U		Curtain track M	4 pcs	E
U2		Curtain track L	4 pcs	
U3		Curtain track S	4 pcs	
1		Screw ST6x30	24 pcs	E
2		Screw ST6x13	16 pcs	E
3		Screw ST3.9x20	240 pcs	E
4		Screw M8x12	40 pcs	E
5		Screw M8x25	8 pcs	E
6		Screw M6x35	3 pcs	E

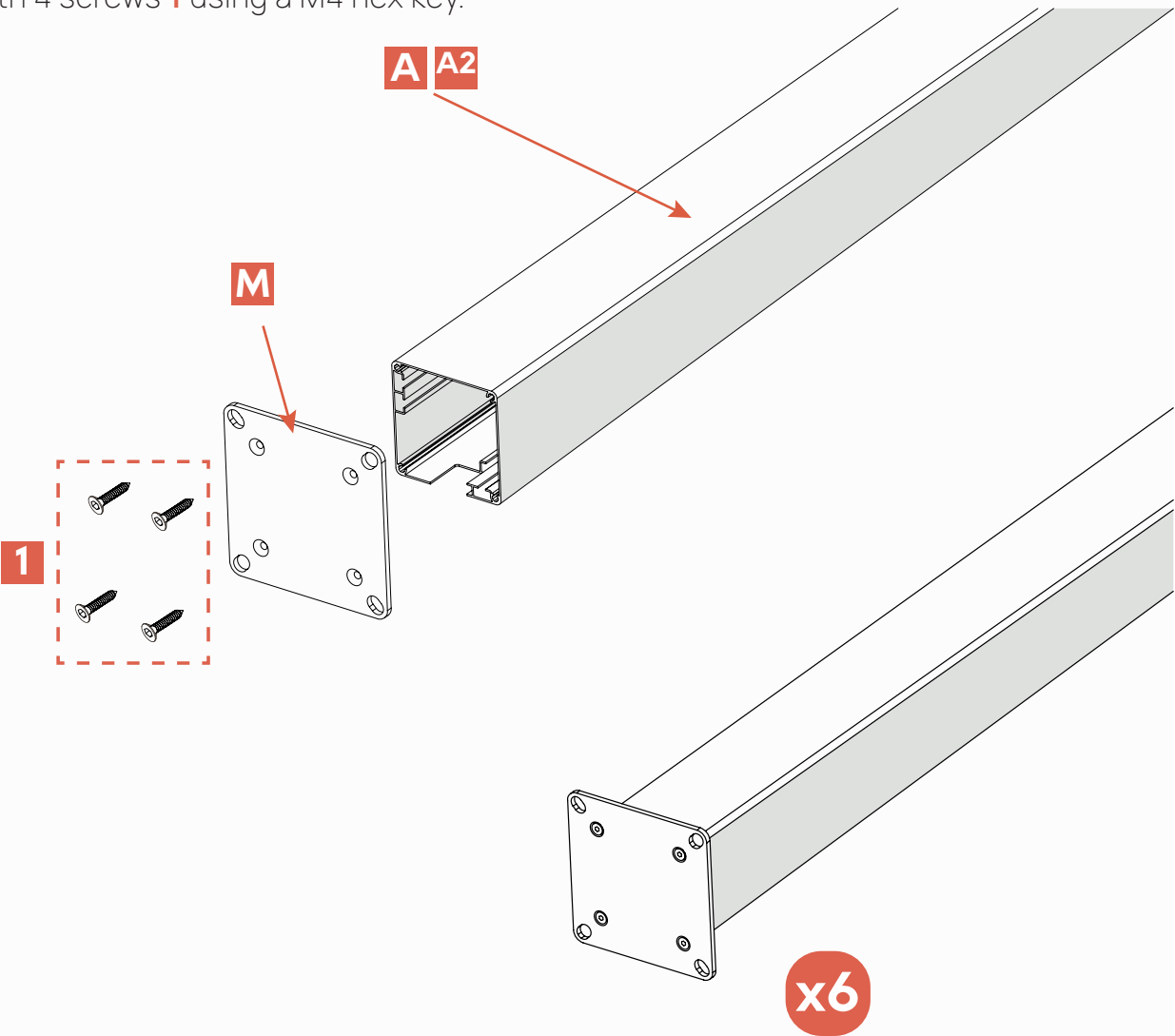
	REF	PART NAME	QTY	BOX
7		Drive shaft	3 pcs	E
8		Screw M6x12	60 pcs	E
9		Screw M5x10	12 pcs	E
10		Screw Washer M6x10 M6	4 sets	E
11		Anchor bolt M8x70	24 pcs	E
12		Ring cap set	3 sets	E
13		Rubber grommet	120 pcs	E
14		Plastic washer	60 pcs	E
15		Plastic buckle	60 pcs	E
16		Louver plug	120 pcs	E
17		Washer M8	40 pcs	E
18		Screw M8x35	8 pcs	E
19		Plastic hook	120 pcs	E
W		Curtain and netting	1 set	E

INSTALLATION

1. SET UP THE POSTS

1

Push the post plate **M** against the straight end of the corner post **A** and middle post **A2** .
If in doubt, rotate it until it fits easily. Screw in the post plate **M** with 4 screws **1** using a M4 hex key.



A x 4

A2 x 2

M x 6

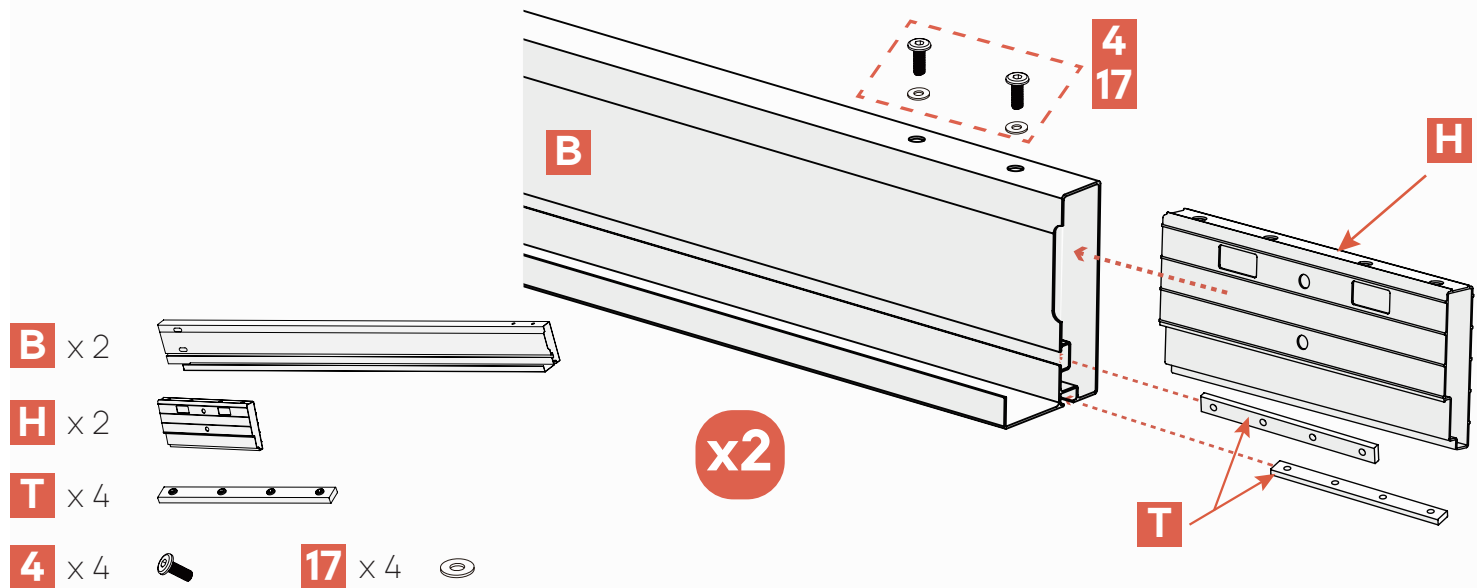
1 x 24

2. CONNECT END BEAMS, SIDE BEAMS AND MIDDLE BEAMS

2A

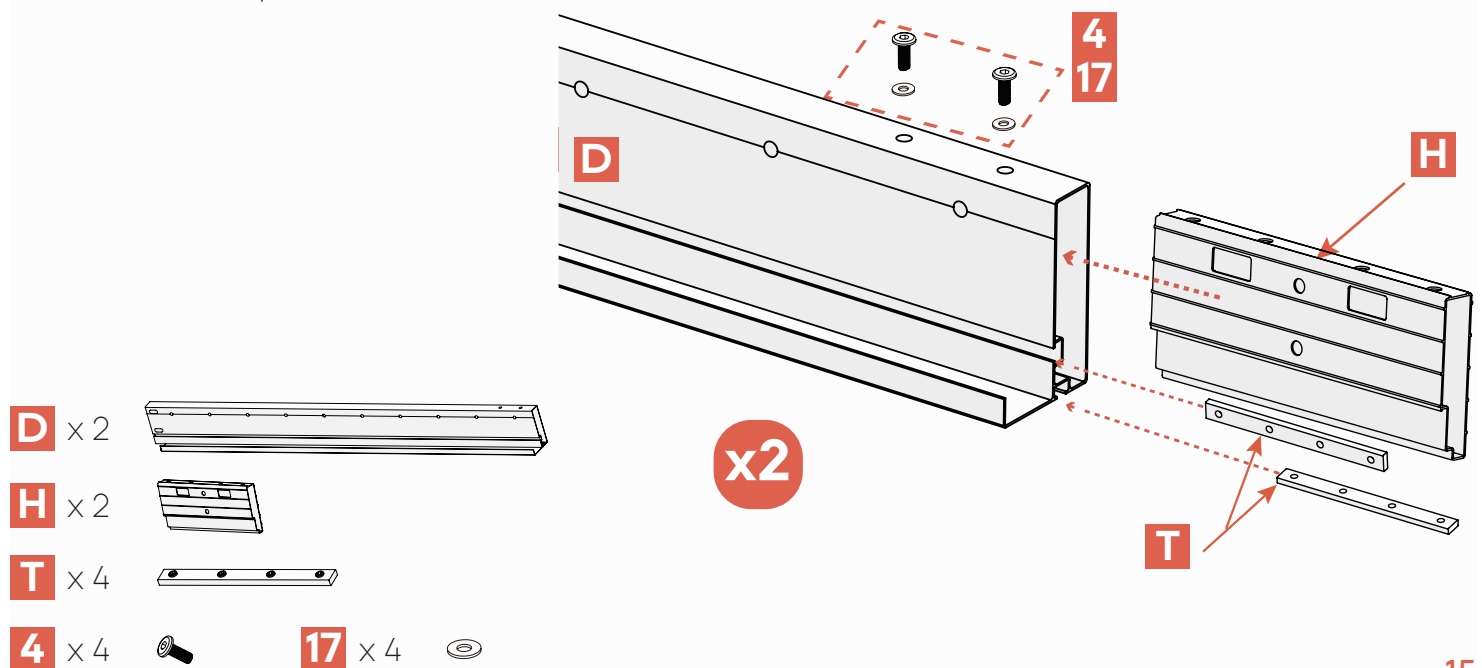
Slot the end beam connector **H** into the end beam **B**, screw in the 2 screws **4** and washers **17** using a M5 hex key.

Slide the nut strip **T** into the track of end beam B.



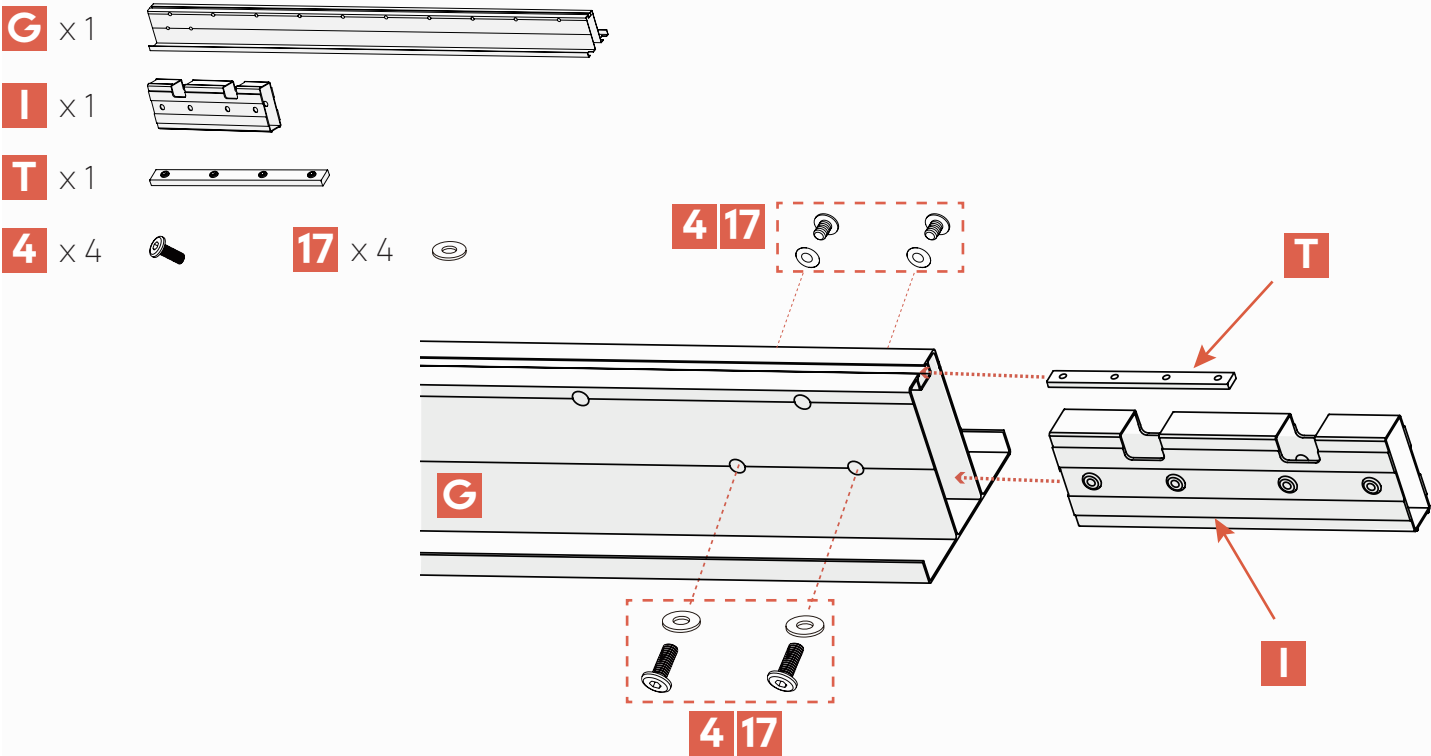
Slot the side beam connector **H** into the side beam **D**, screw in the 2 screws **4** and washers **17** using a M5 hex key.

Slide the nut strip **T** into the track of side beam D.



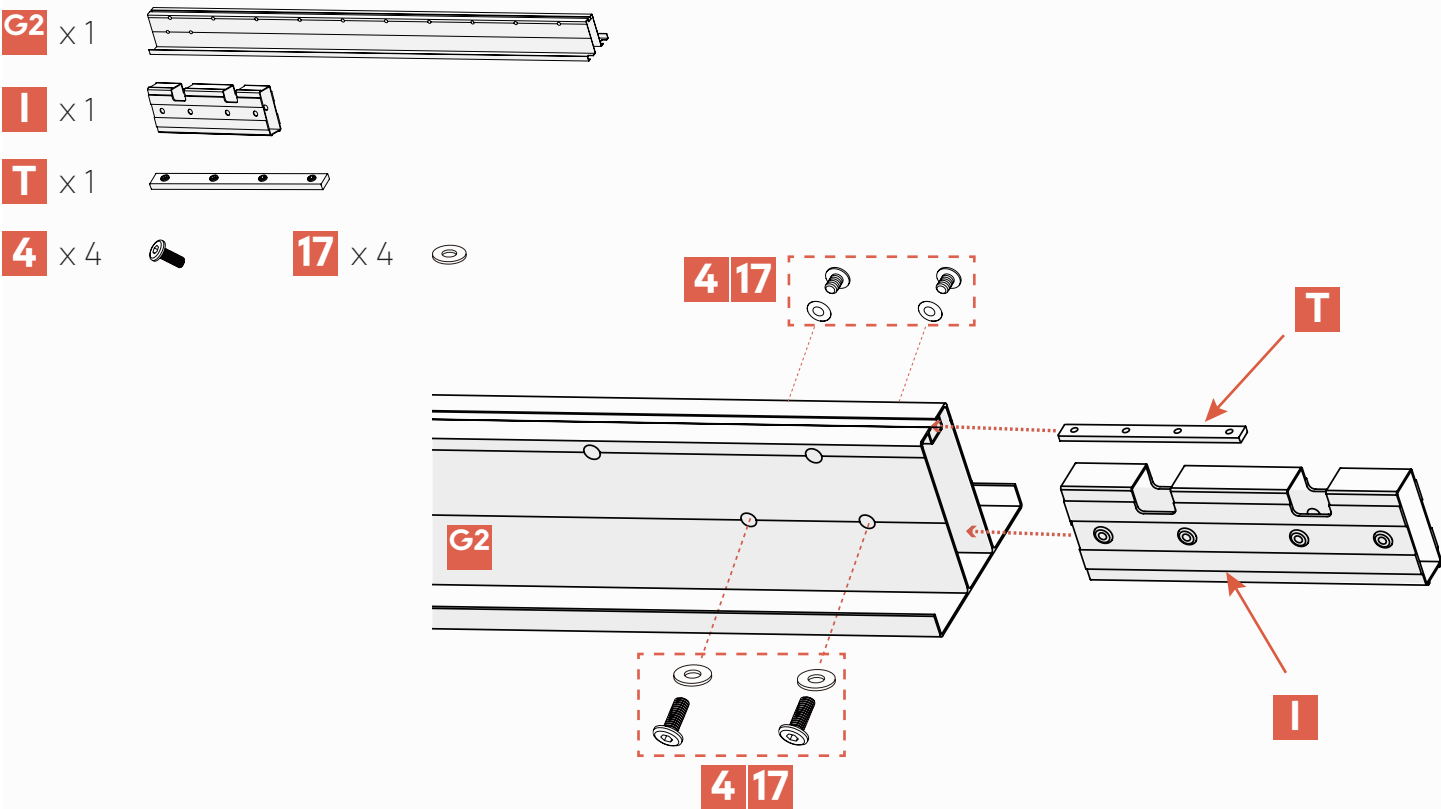
Slot the middle connector **I** into the middle beam **G**, screw in the 4 screws **4** and washers **17** using a M5 hex key.

Slide the nut strip **T** into the track of middle beam **G**.



Slot the middle connector **I** into the middle beam **G2**, screw in the 4 screws **4** and washers **17** using a M5 hex key.

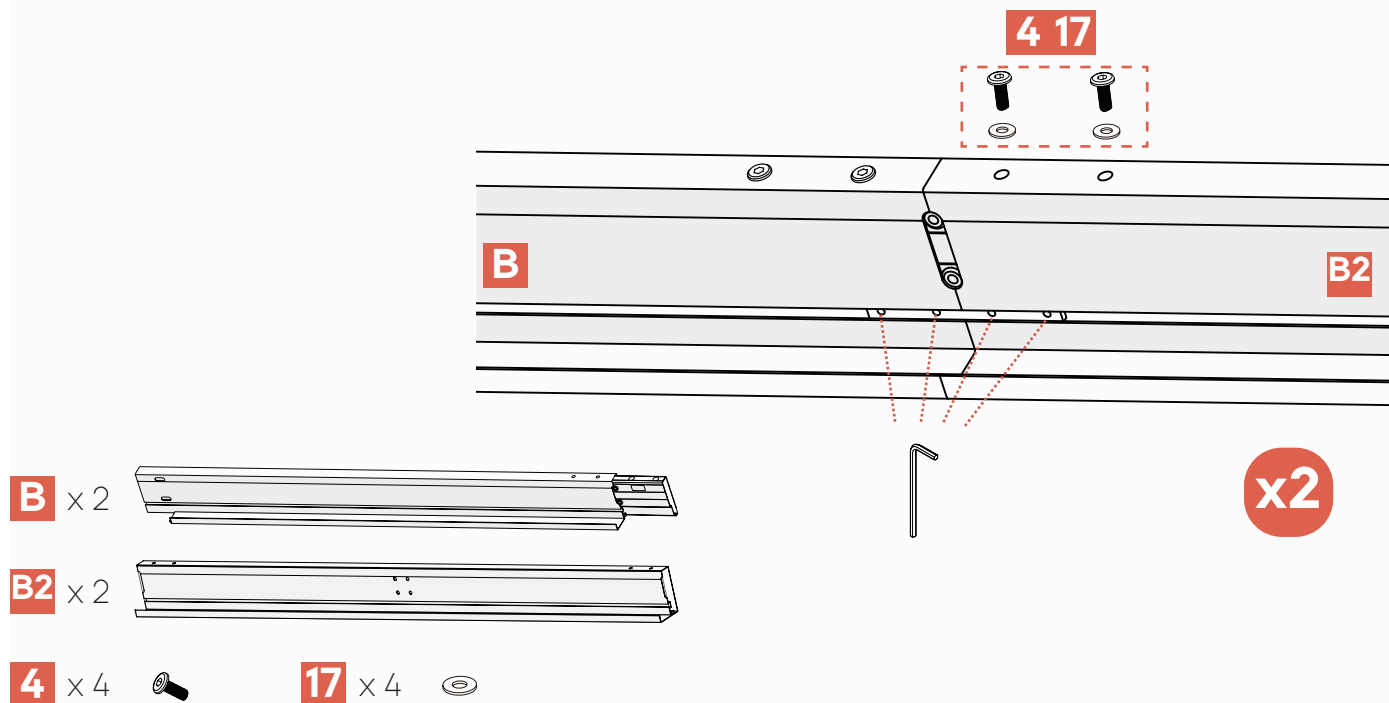
Slide the nut strip **T** into the track of middle beam **G2**.



2B

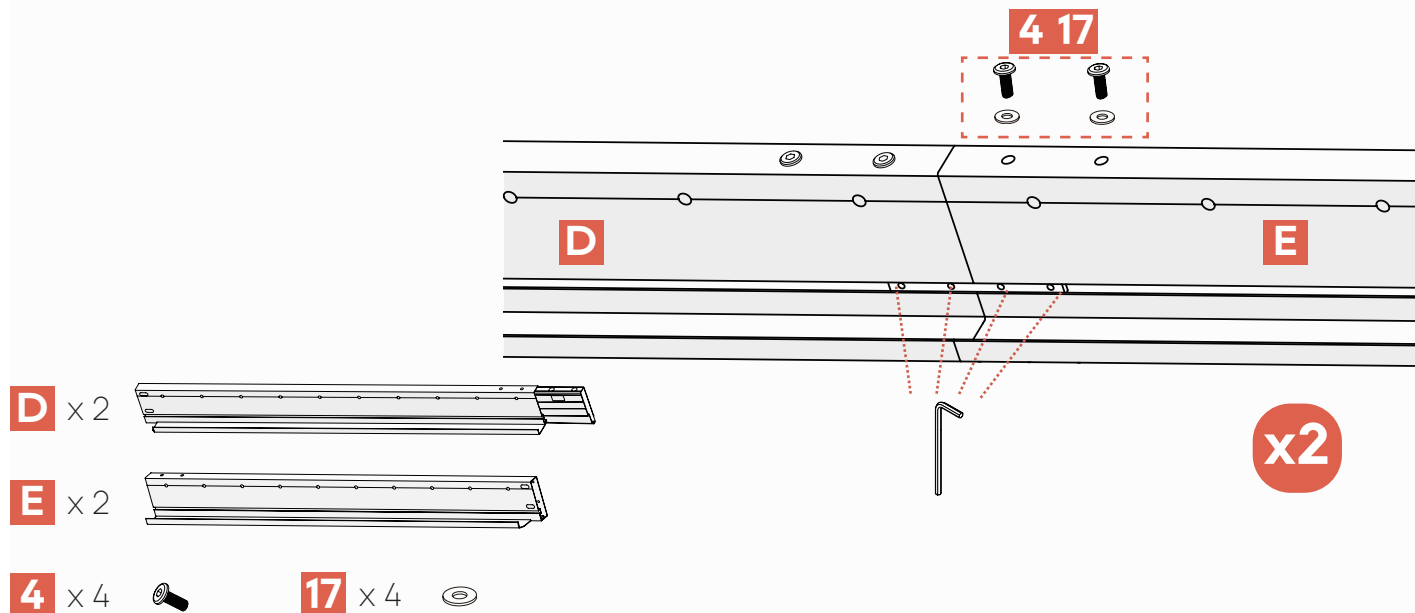
Slot the end beam **B** into the end beam **B2** until the end section of end beam B has been fully inserted and is no longer visible, screw in the 2 screws **4** and washers **17** using a M5 hex key.

Slide the 2 nut strip **T** to the middle of end beam B and end beam B2, tighten the 8 preassembled screws on the nut strip T using a M3 hex key.



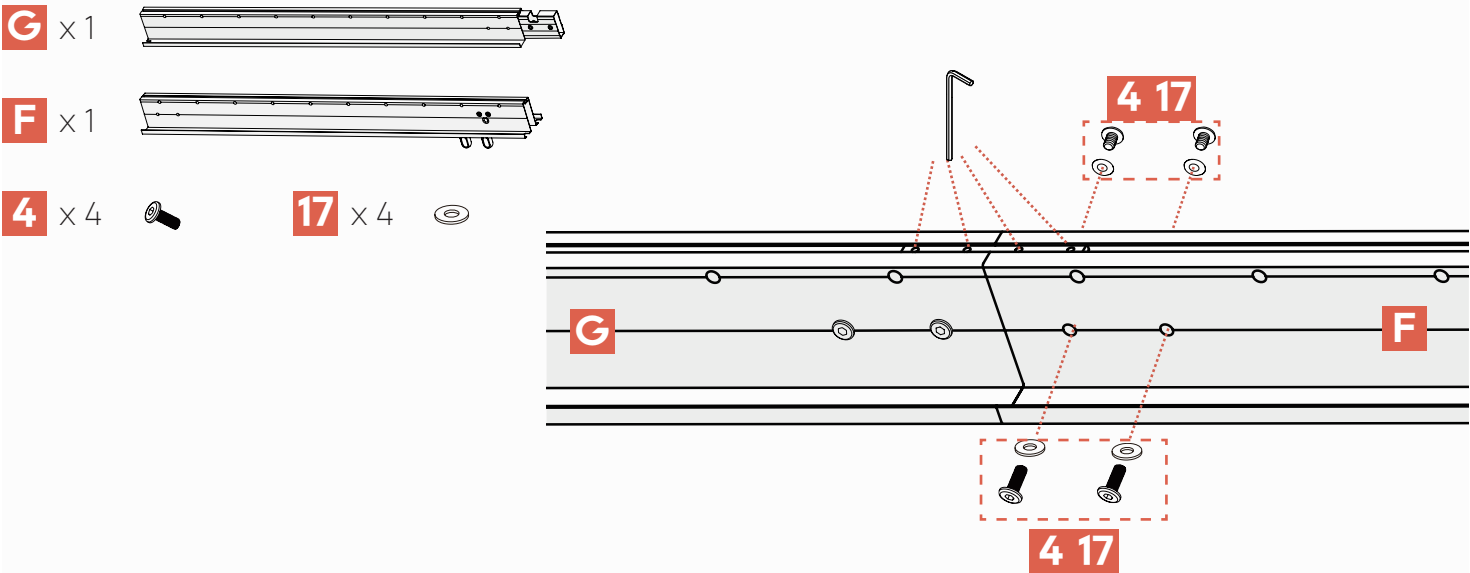
Slot the side beam **D** into the side beam **E** until the end section of side beam D has been fully inserted and is no longer visible, screw in the 2 screws **4** and washers **17** using a M5 hex key.

Slide the 2 nut strip **T** to the middle of side beam D and side beam E, tighten the 8 preassembled screws on the nut strip T using a M3 hex key.



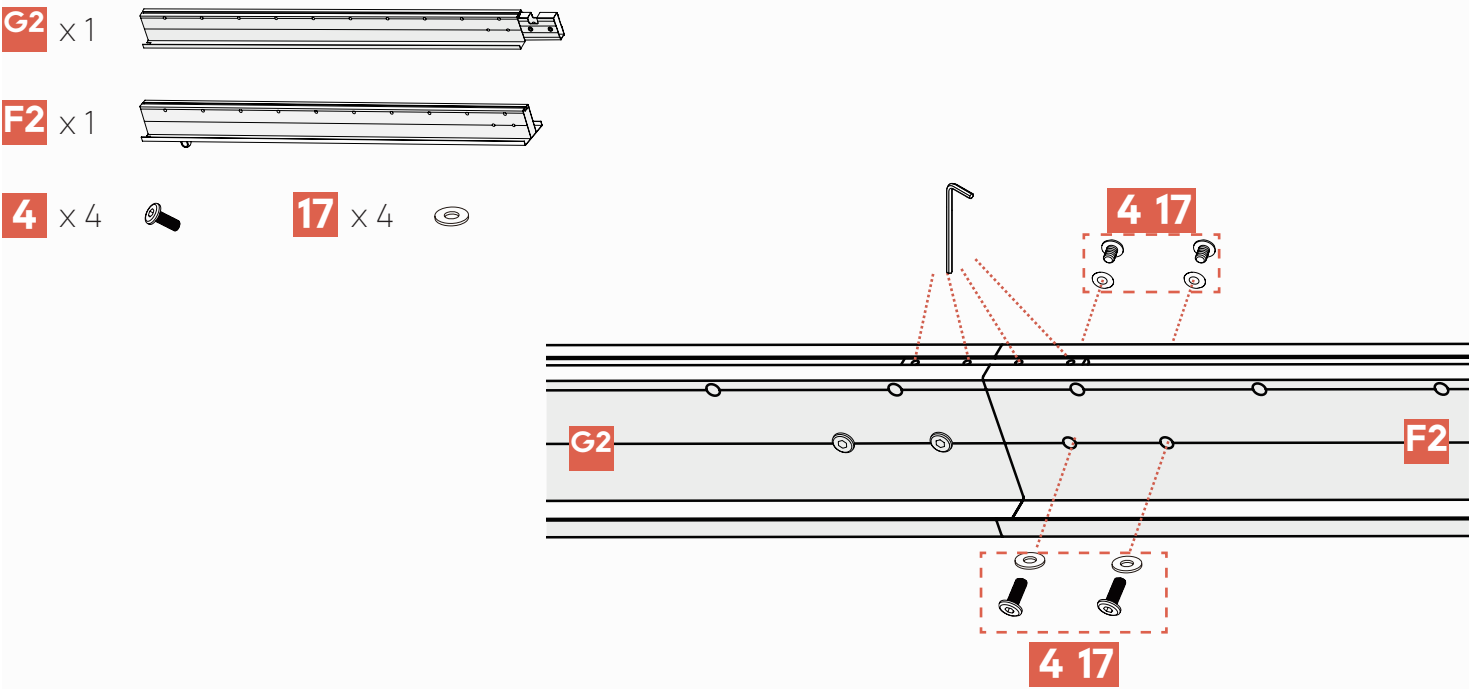
Slot the middle beam **G** into the middle beam **F** until the end section of end beam G has been fully inserted and is no longer visible, screw in the 4 screws **4** and washers **17** using a M5 hex key.

Slide the nut strip **T** to the middle of middle beam G and middle beam F, tighten the 4 preassembled screws on the nut strip T using a M3 hex key.



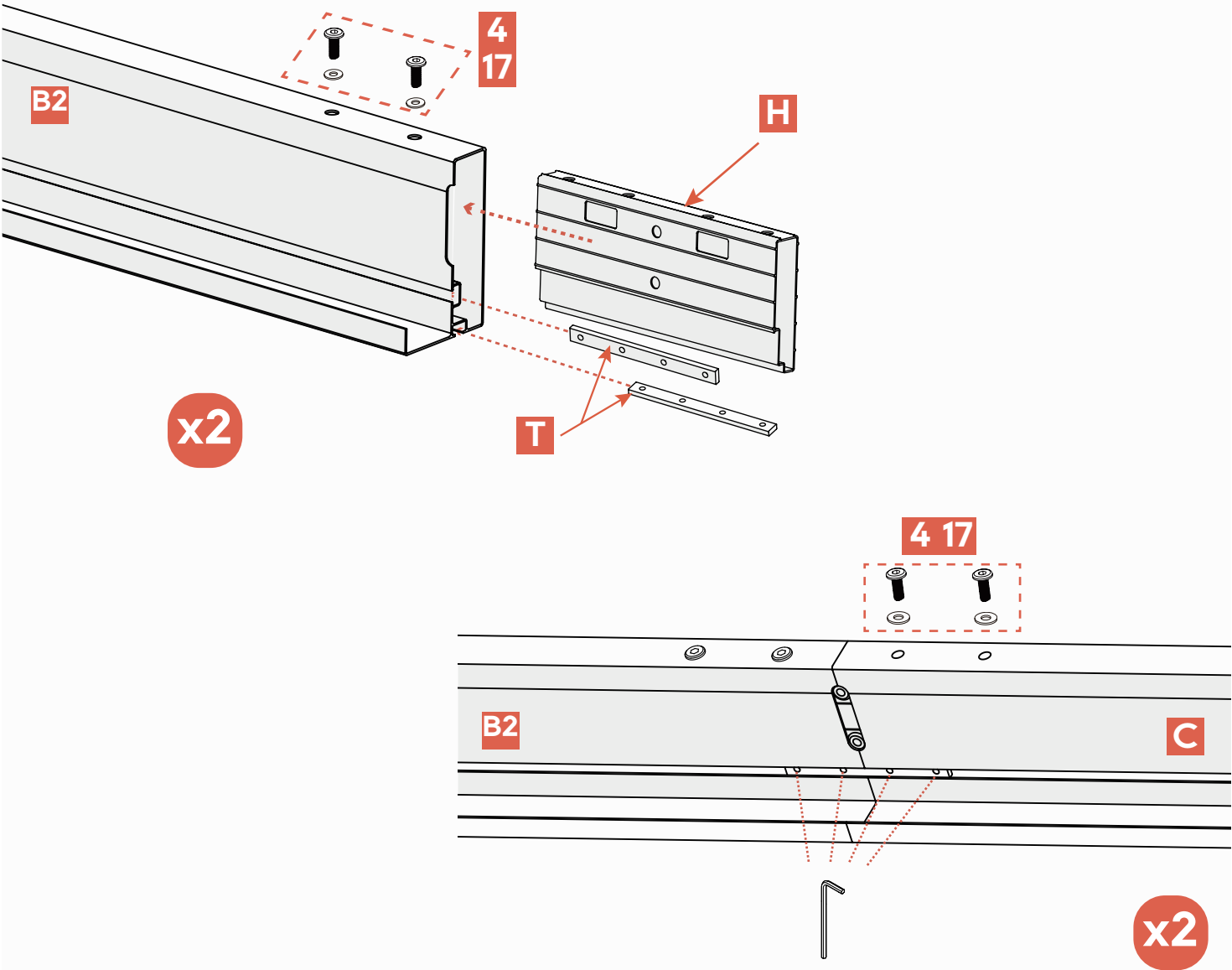
Slot the middle beam **G2** into the middle beam **F2** until the end section of end beam G2 has been fully inserted and is no longer visible, screw in the 4 screws **4** and washers **17** using a M5 hex key.

Slide the nut strip **T** to the middle of middle beam G2 and middle beam F2, tighten the 4 preassembled screws on the nut strip T using a M3 hex key.



2C

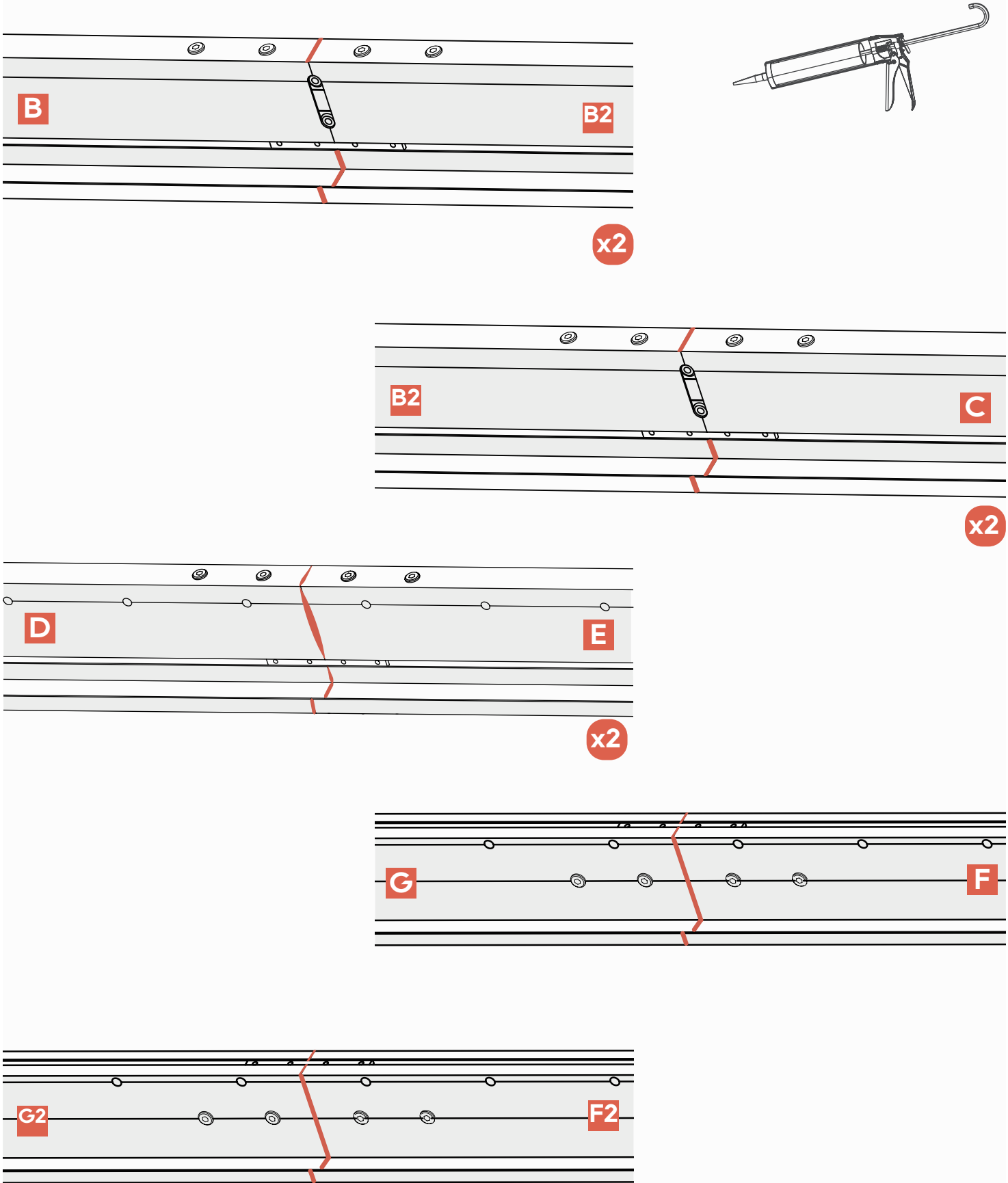
Repeat steps 2B and 2C to connect the end beam **B+B2** and end beam **C**.



- B + B2** x 2
- C** x 2
- H** x 2
- T** x 4
- 4** x 4
- 17** x 4

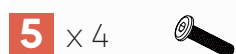
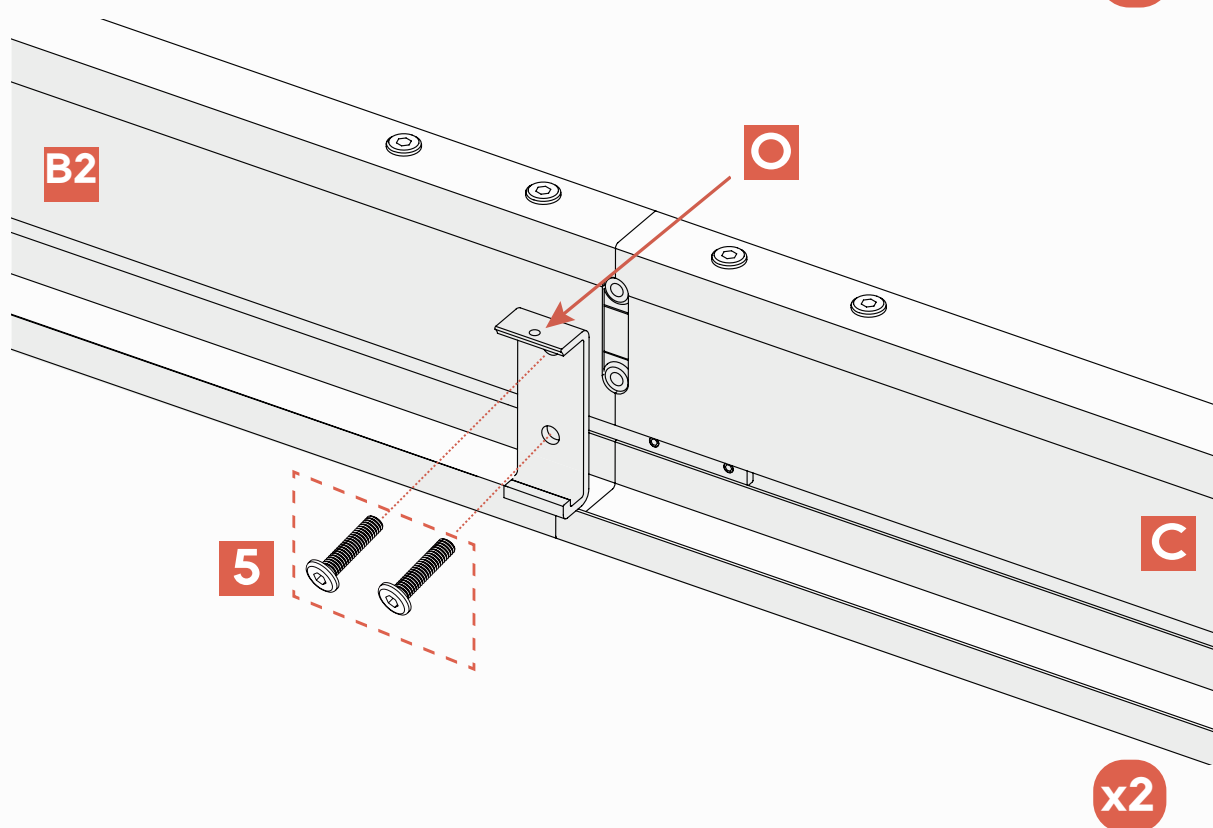
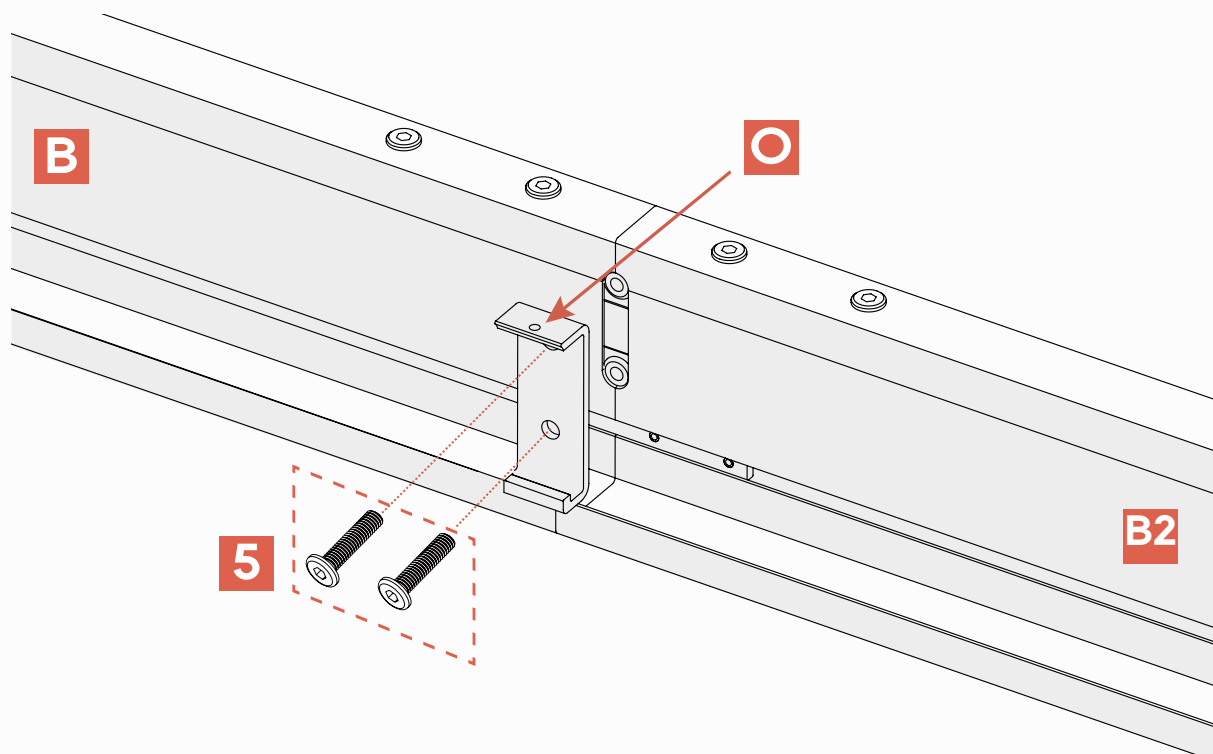
2D

Before the beams can be placed to the posts, silicone sealing grout should be applied in the slot in the gutter seal.



2E

Attach the middle beam supporter **O** to middle of the end beam **B**, end beam **B2** and end beam **C** with 2 screws **5** using a M5 hex key.



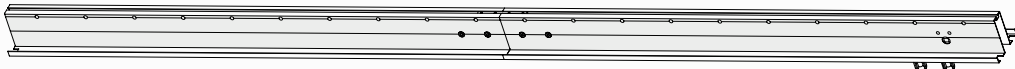
AFTER STEP 2E YOU WILL GET:



End beam **B** + **B2** + **C** x 2



Side beam **D** + **E** x 2



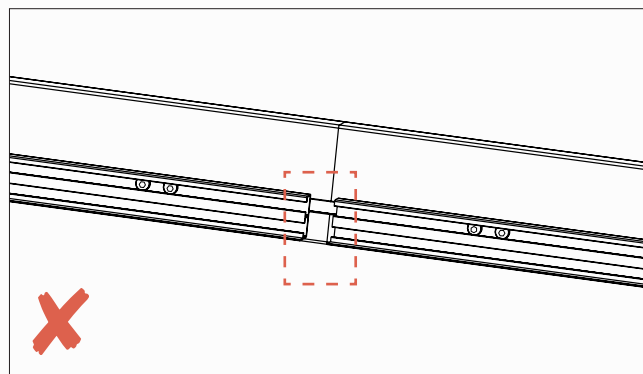
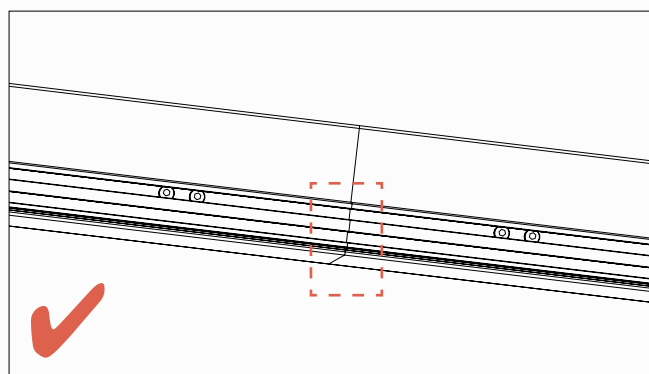
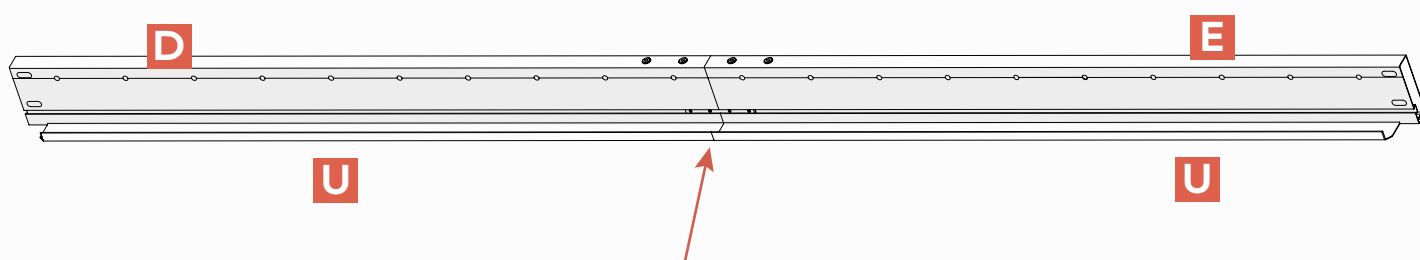
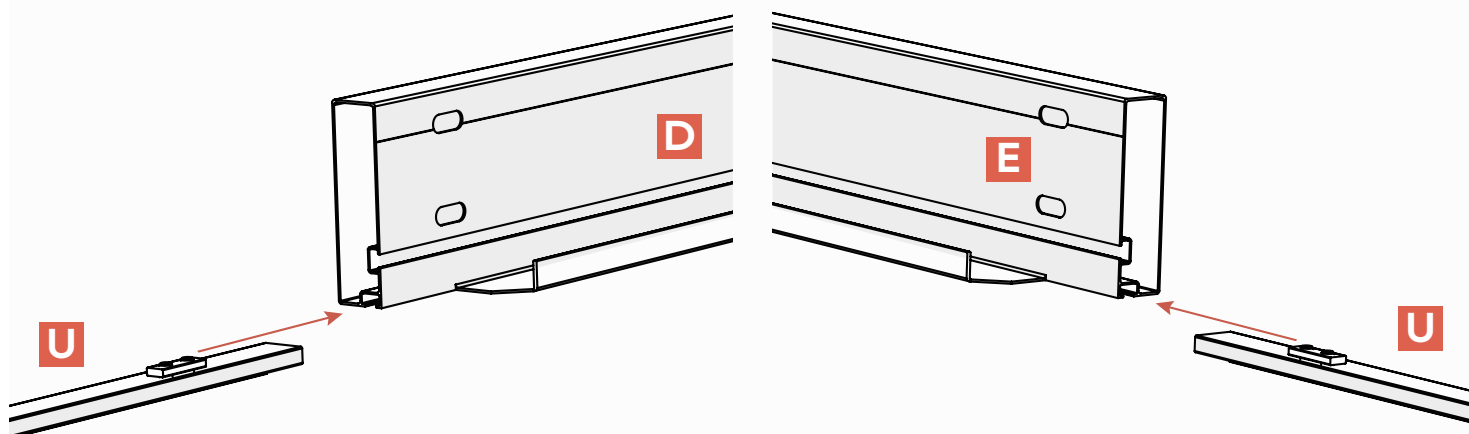
Middle beam **G** + **F** x 1



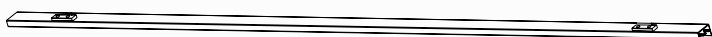
Middle beam **G2** + **F2** x 1

2F

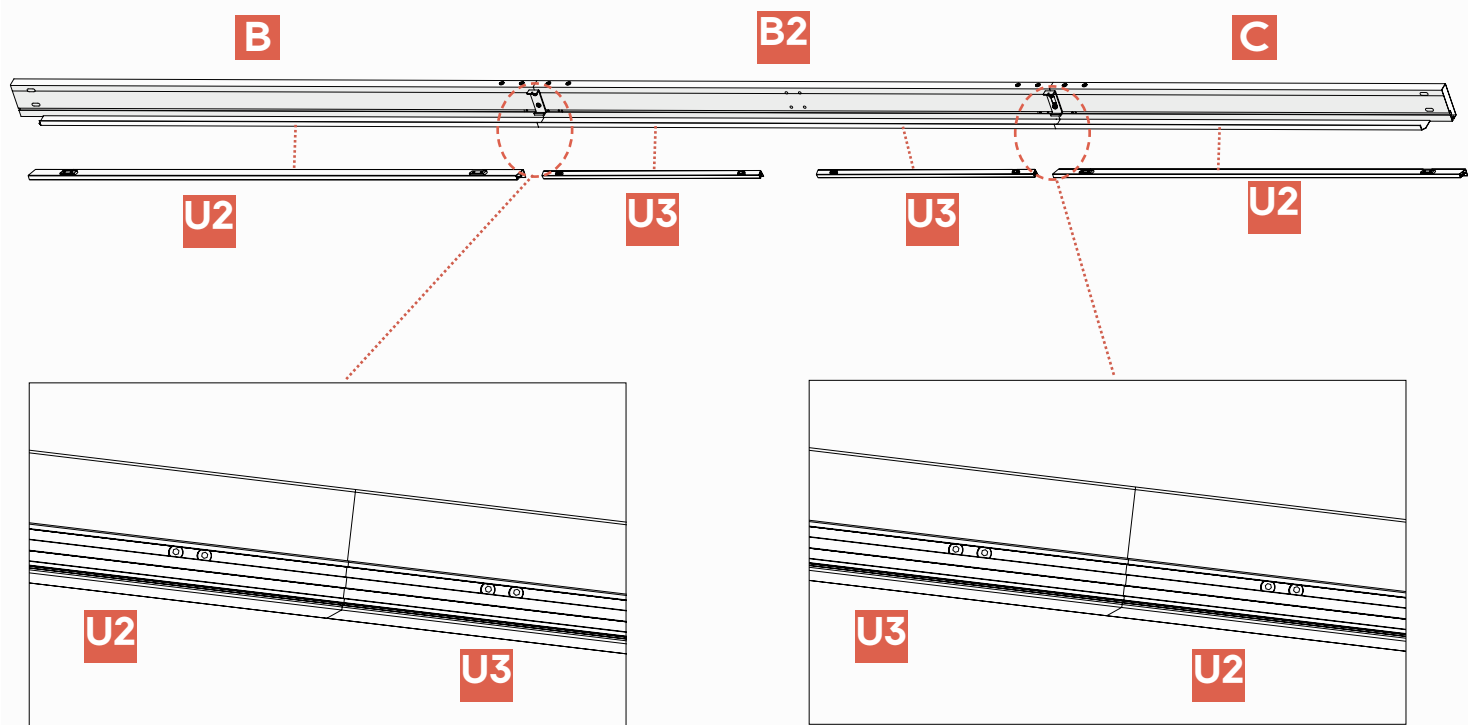
Using a M3 hex key, slightly loosen the 4 built-in screws at the each end of the curtain tracks **U**. Slide the curtain tracks into the grooves of side beams **D** and **E**. Tighten the 4 built-in screws on curtain tracks.



U x 4



Repeat step 2F for the end beams **B+B2+C**.

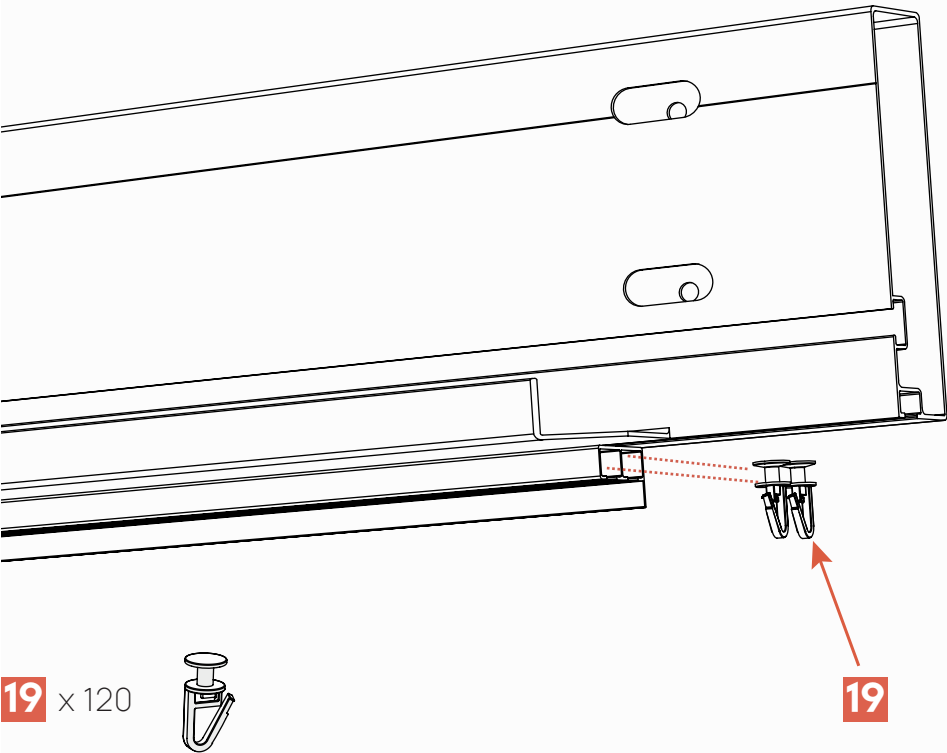


- U2** x 4
- U3** x 4

2F

Slide 20 plastic hooks **19** into the 2 curtain tracks **U** on side beams.

Slide 40 plastic hooks **19** into the 2 curtain tracks **U2** and 2 curtain tracks **U3** on end beams.

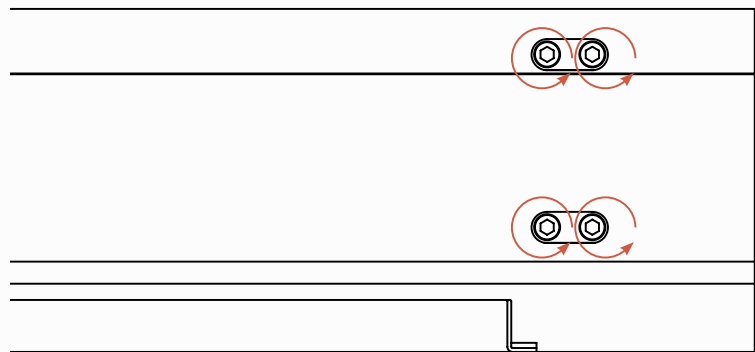


- 19** x 120

3. CONNECT THE END BEAMS B + B2 + C AND SIDE BEAMS D + E TO THE CORNER POST A

3A

Using a M5 hex key, slightly loosen the 4 built-in screws at the each end of the end beams and side beams.



D + E x 2

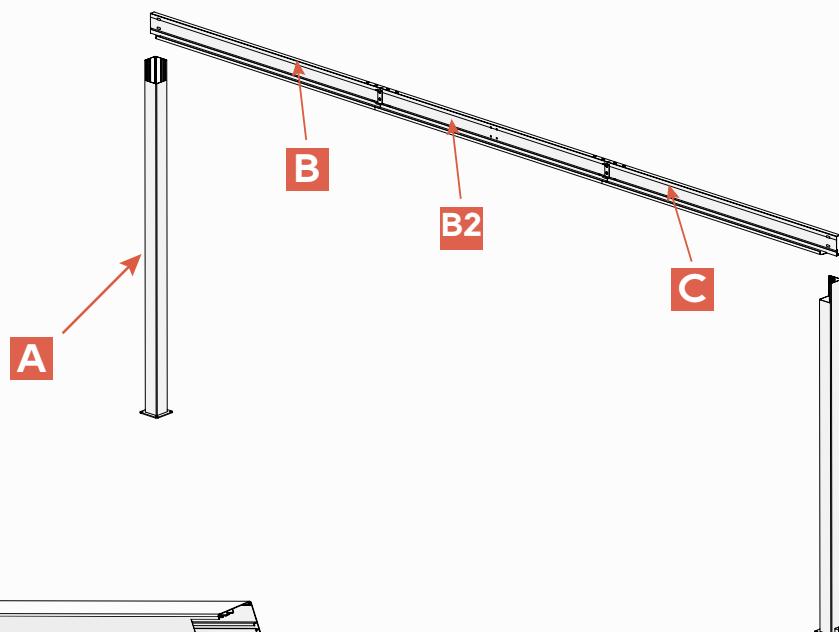


B + B2 + C x 2



3B

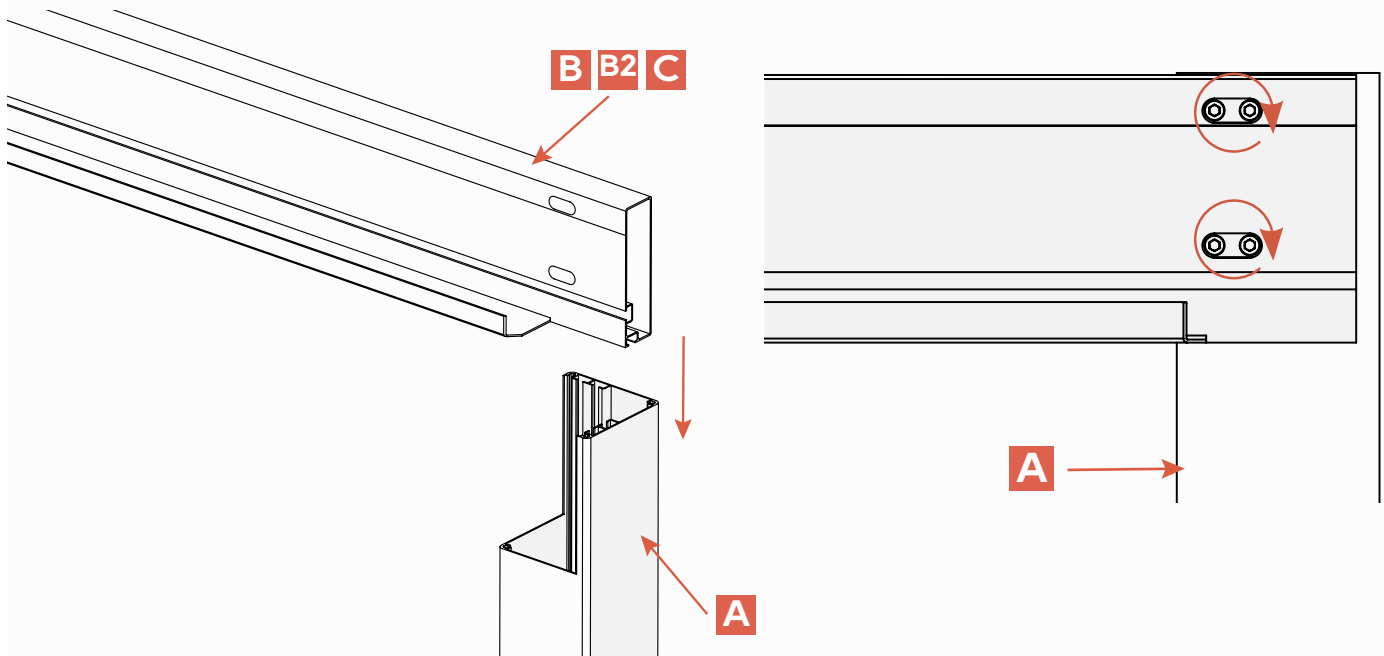
Slide the end beam **B+B2+C** into the grooves of the corner post **A** in such a way that the slot nuts of the end beam B+B2+C interlock with the slots in the corner post A .



A x 2

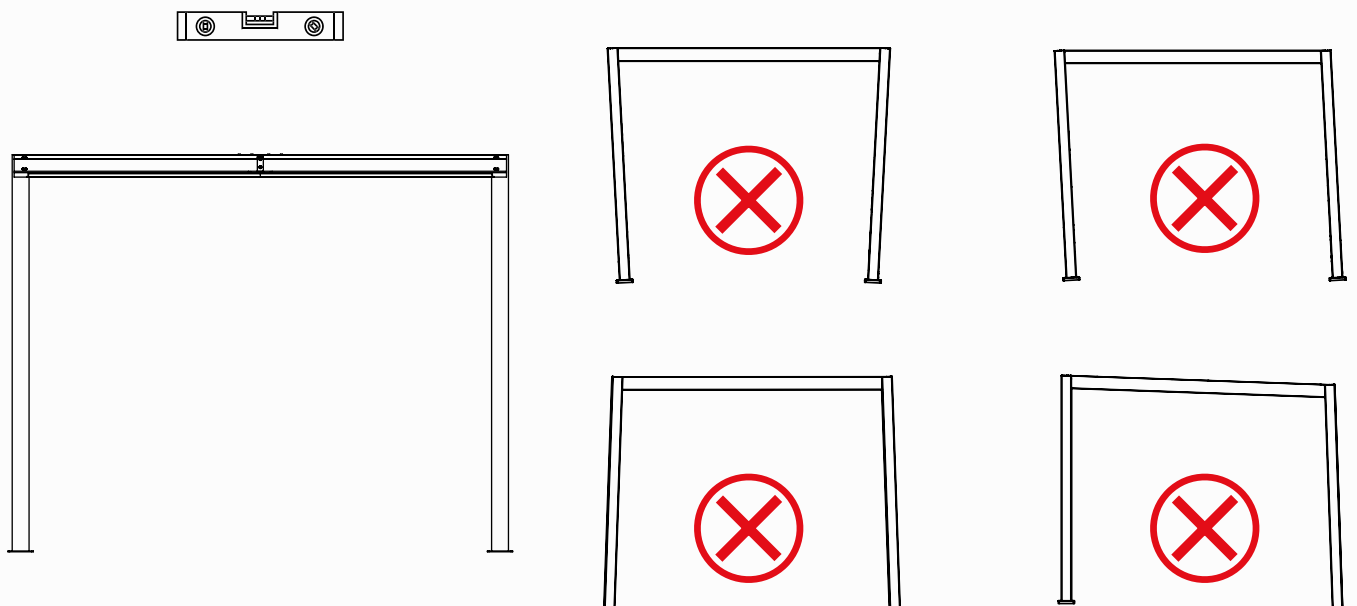


Fix the end beam **B+B2+C** tightly onto the corner post **A** with the 4 built-in screws, using a M5 hex key.



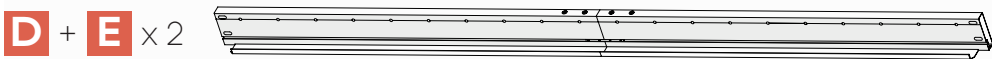
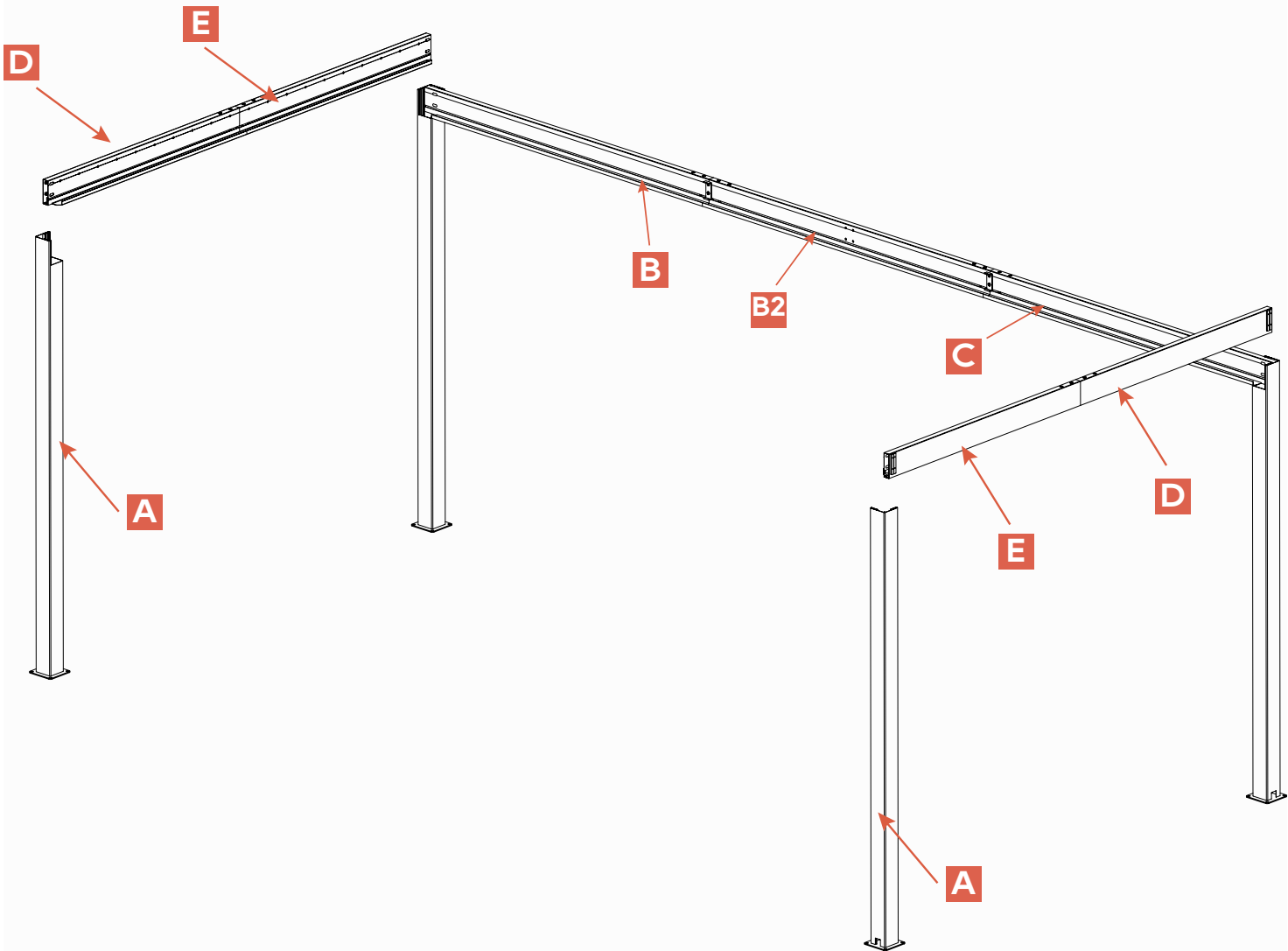
Warning

Using a spirit level to check that all corner posts are straight and level. If the corner posts or beams are still not level, this means that your main building surface isn't sufficiently level, and that you will need to raise the corner posts that are positioned lower than the others. (Contact qualified workers if needed)

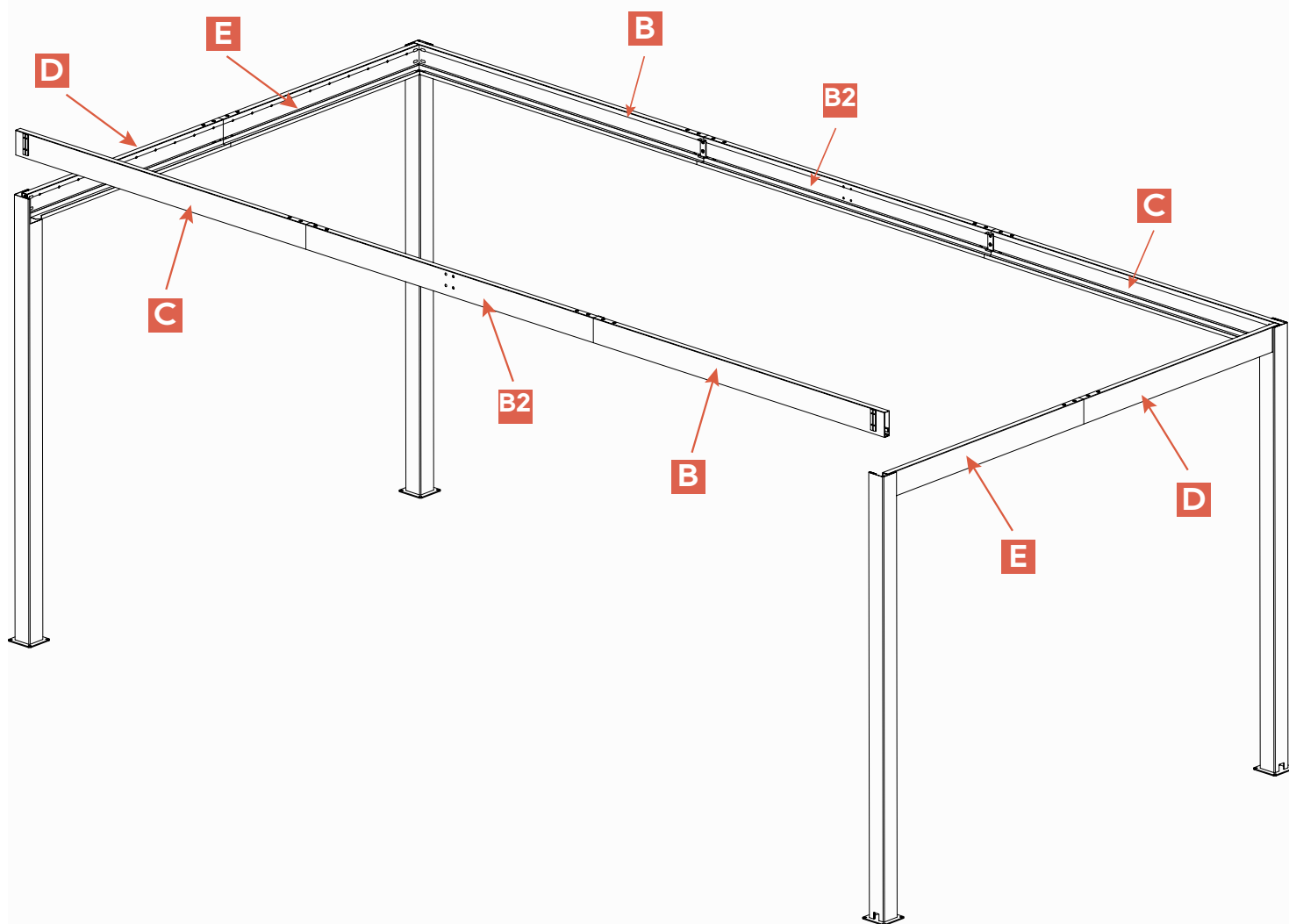


3C

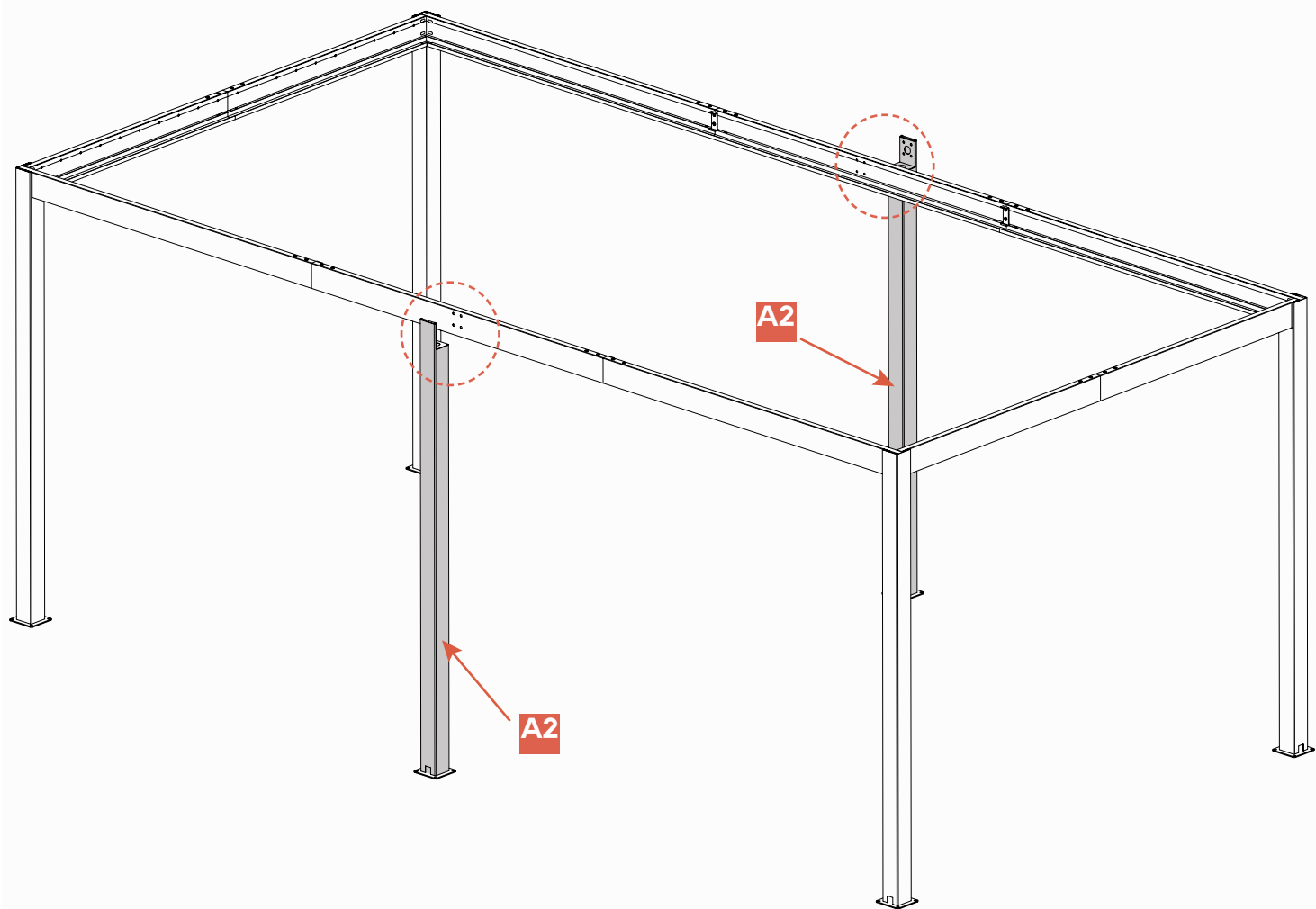
Repeat steps **3A**, **3B** to connect 2 side beams **D+E** with 2 corner posts **A**.



Repeat steps **3A**, **3B** to connect the other end beam **B+B2+C** to corner posts **A**.



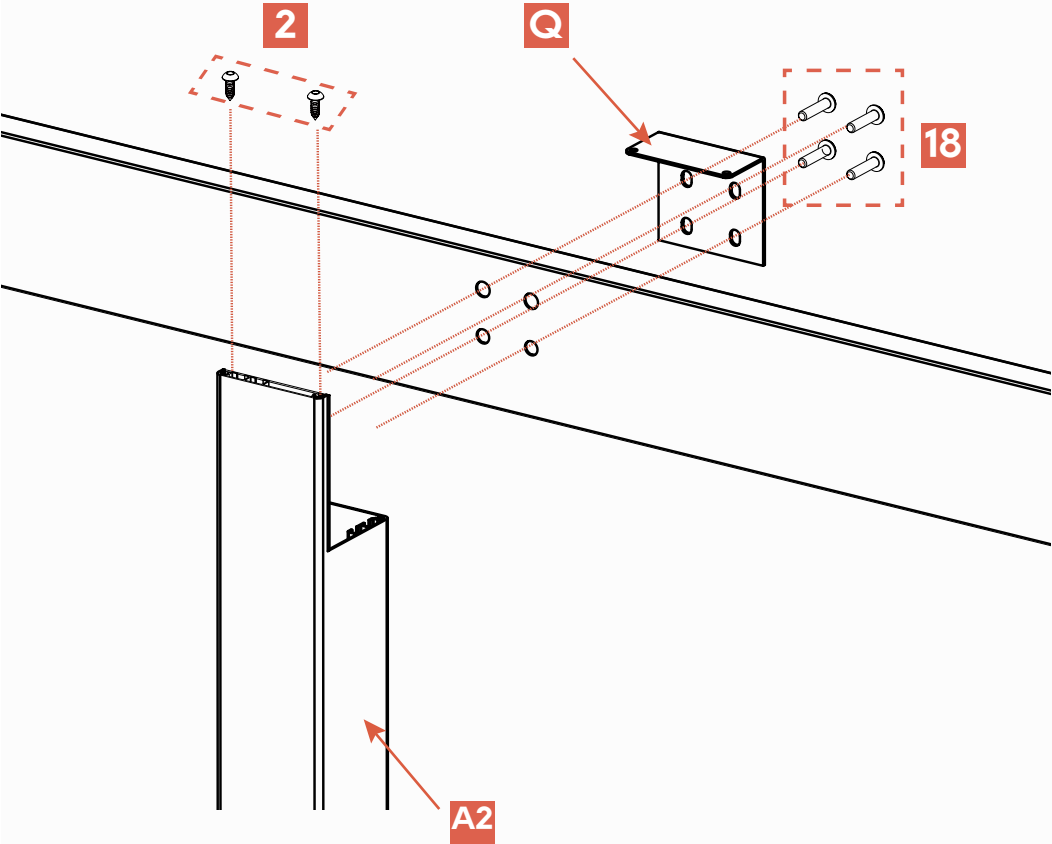
Attach the middle posts **A2** to the end beams **B2**,



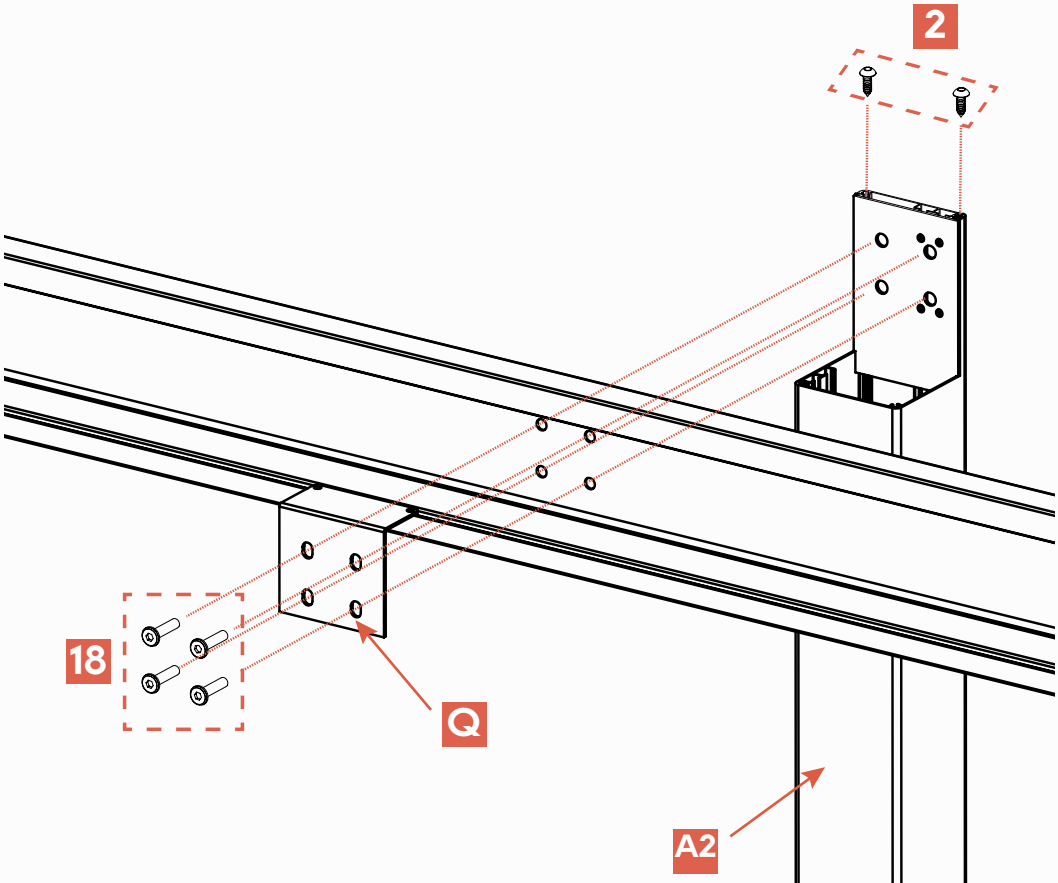
A2 x 2



Fix the middle post covers **Q** to the top of each middle post with 4 screws **18** and 2 screws **2**.



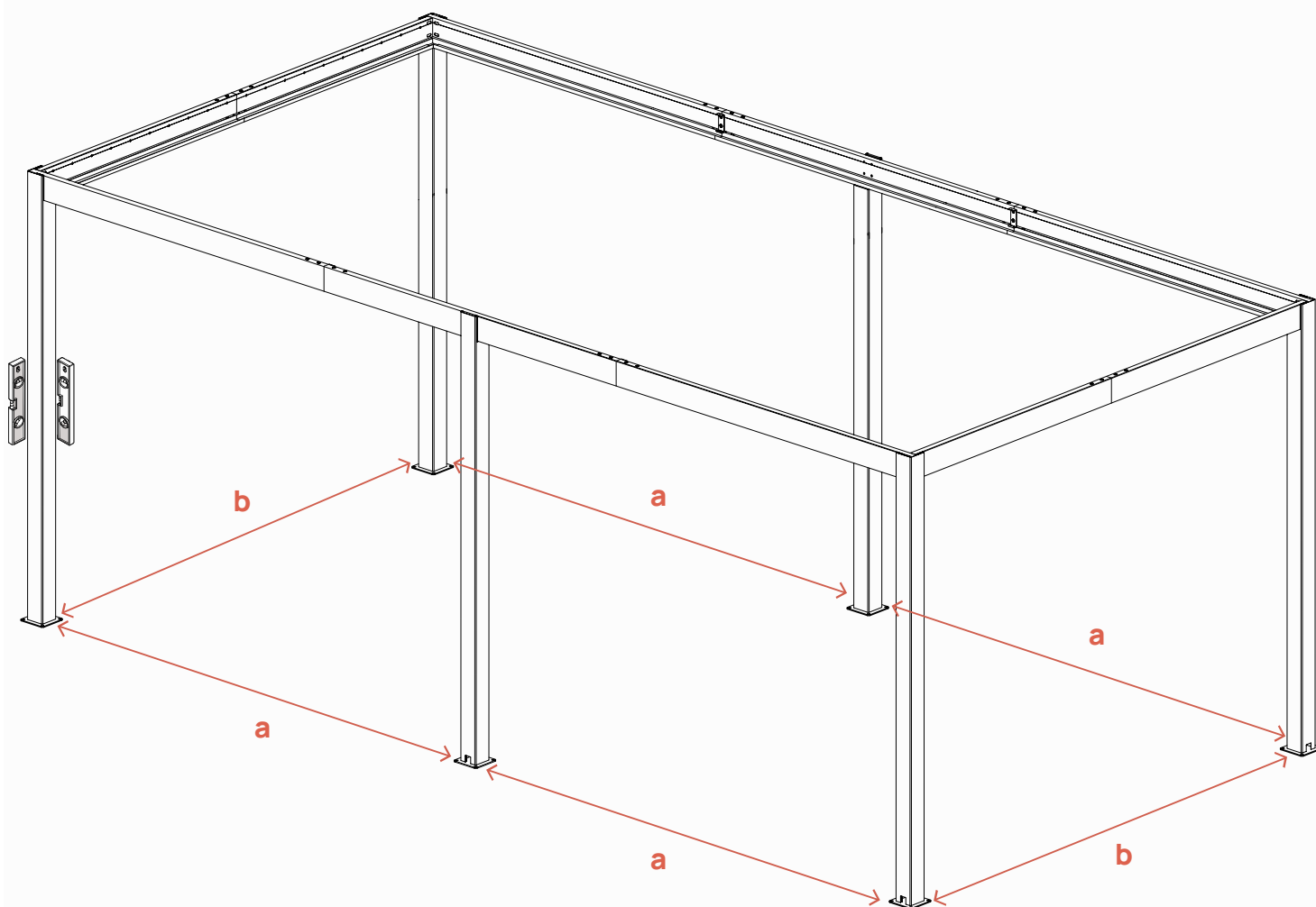
- Q** x 2
- 2** x 4
- 18** x 8



3E

You are now almost done installing the main frame of the pergola. Please double check to ensure all corner posts and beams have been installed and fitted correctly. You may have to unscrew certain bolts during this step. You will also need a tape measure and a spirit level to complete this step.

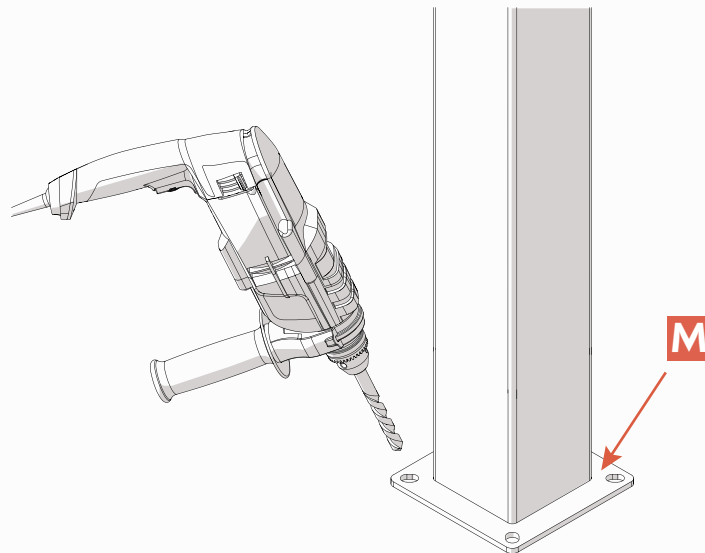
Measure the distances between the adjacent corner posts. Adjust accordingly and ensure the distances match those shown in the opposite figure.



4. SECURE THE CORNER POSTS TO THE GROUND

4A

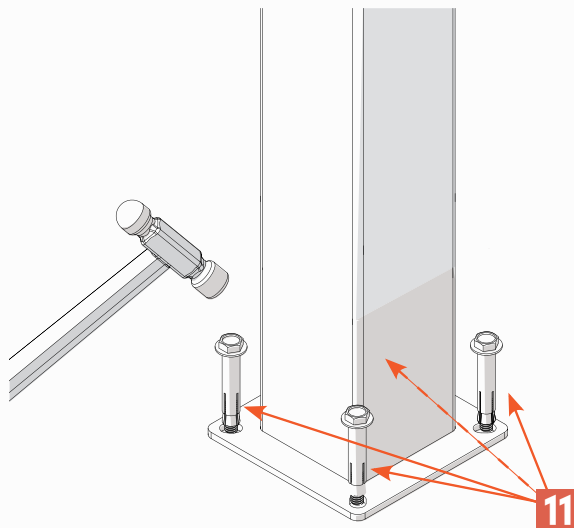
To fix the corner posts with the 6 post plates **M**, drill through each hole with a hammer drill.



x6

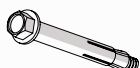
4B

Remove all the debris and dirt. Then firmly insert the anchor bolts **11** into each hole, using a hammer.



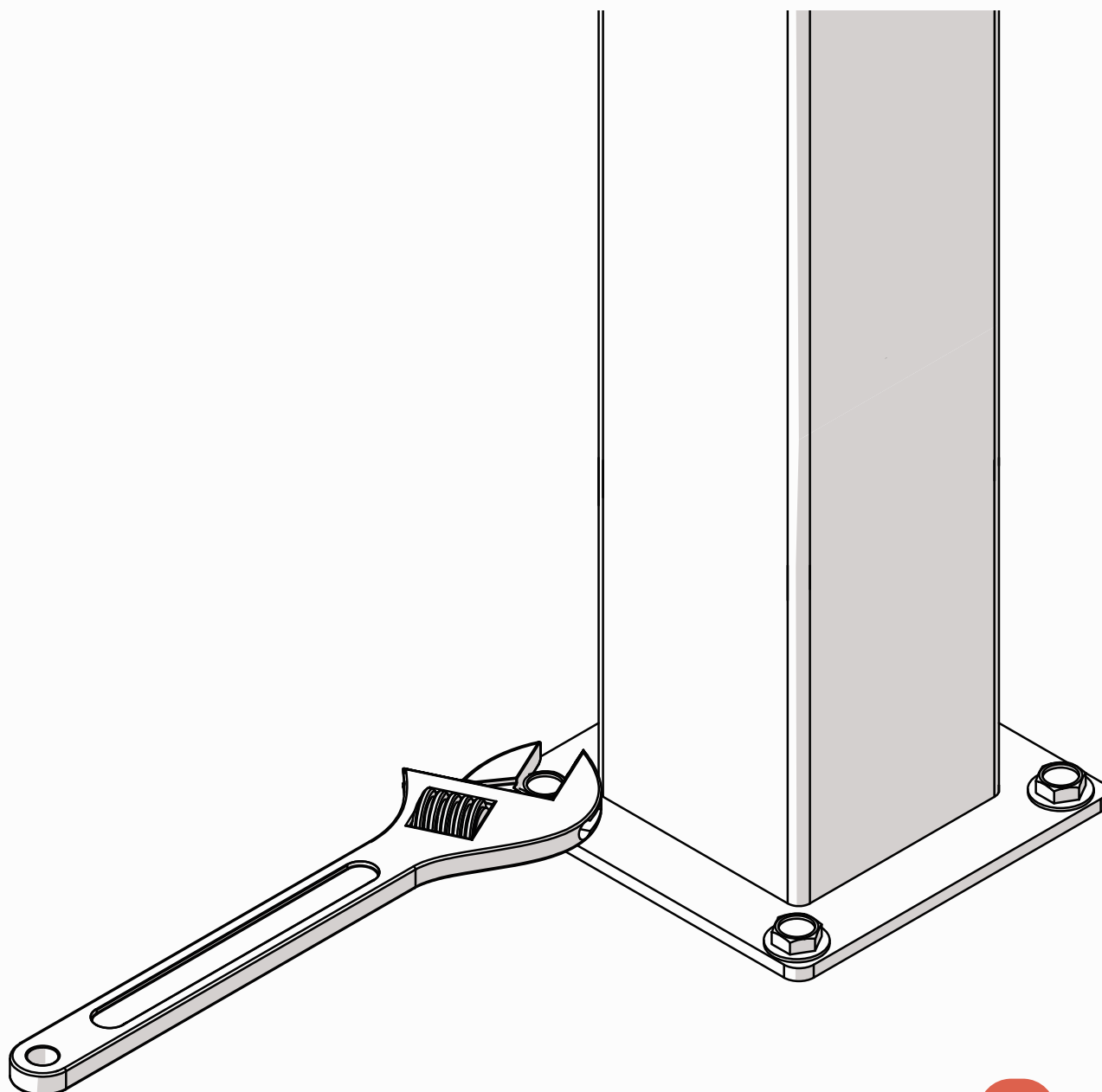
x6

11 x 24



4C

Tighten the hexagonal ends of each bolt with a spanner/wrench.



x6

5

This diagram illustrates the exploded view of a table frame assembly. The components are labeled as follows:

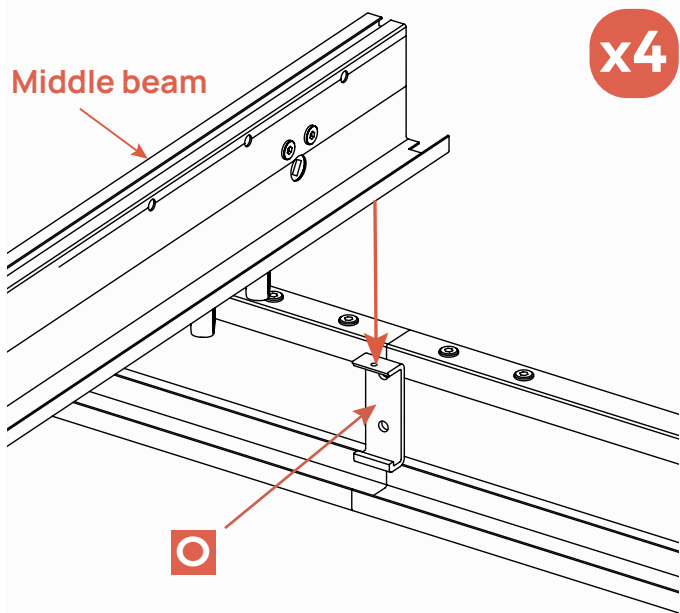
- B**: Main horizontal frame rail.
- C**: Vertical support leg.
- D**: Top horizontal frame rail.
- E**: Reinforcing crossbar for the top frame.
- F**: Reinforcing crossbar for the lower frame.
- F2**: Reinforcing crossbar for the lower frame.
- G**: Reinforcing crossbar for the lower frame.
- G2**: Reinforcing crossbar for the lower frame.

The diagram shows the spatial relationship between these parts, indicating how they fit together to form the complete table structure.

10 × 4

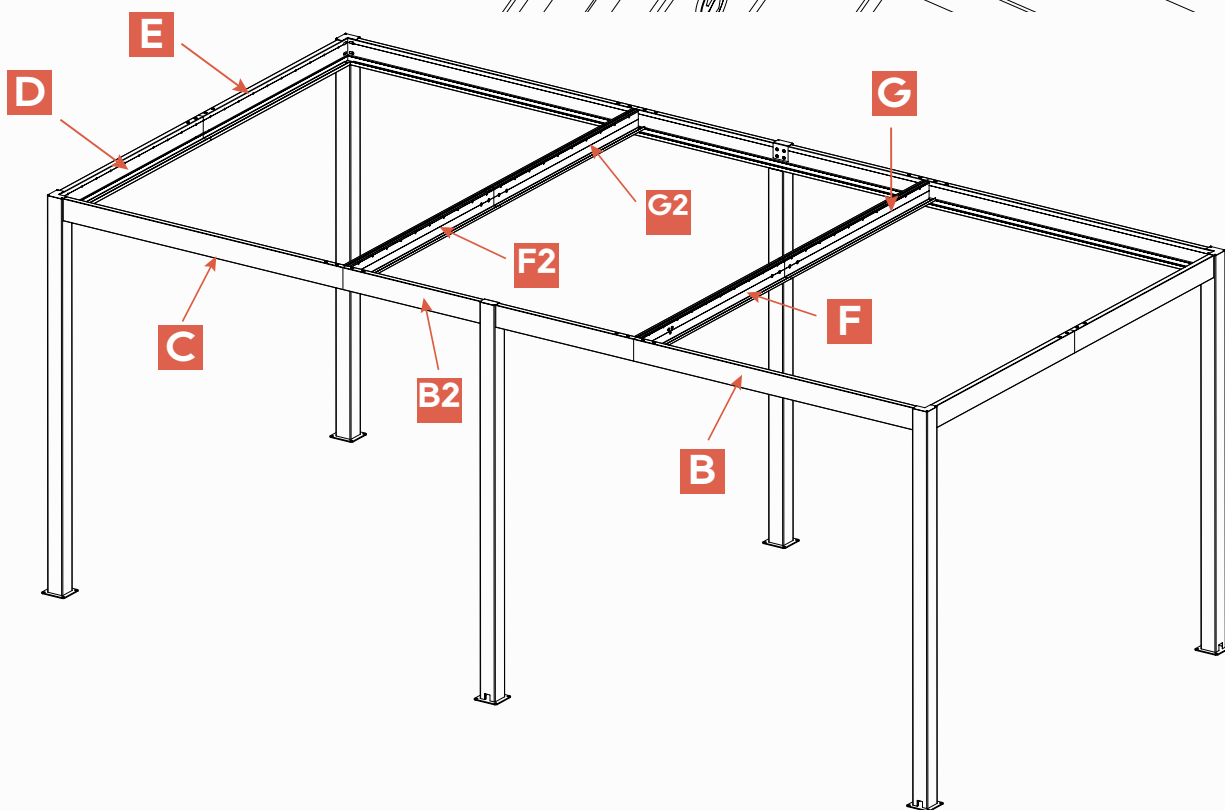
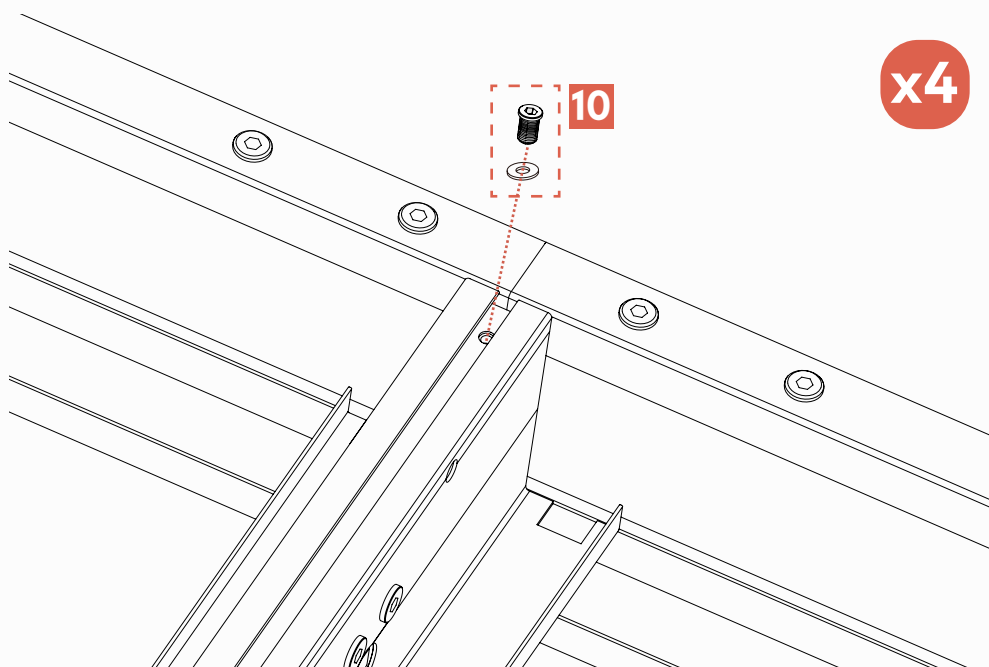
x4

Middle beam



x4

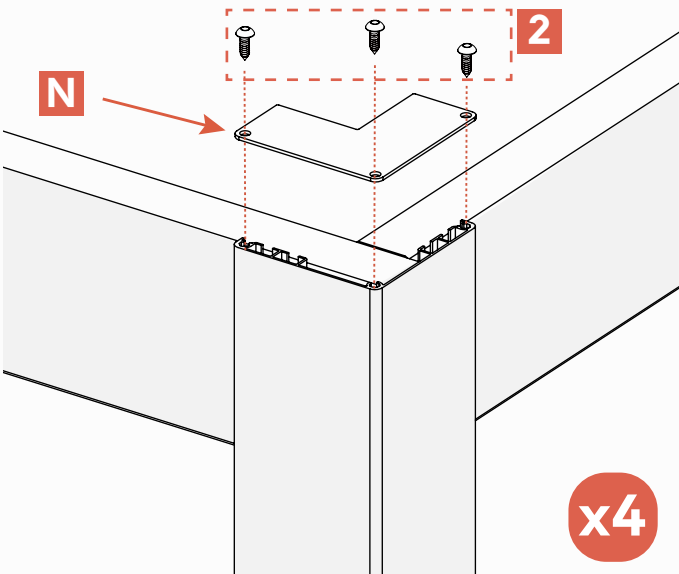
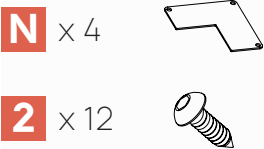
10



6. INSTALL CORNER COVER **N** AND RUBBER GROMMET **13**

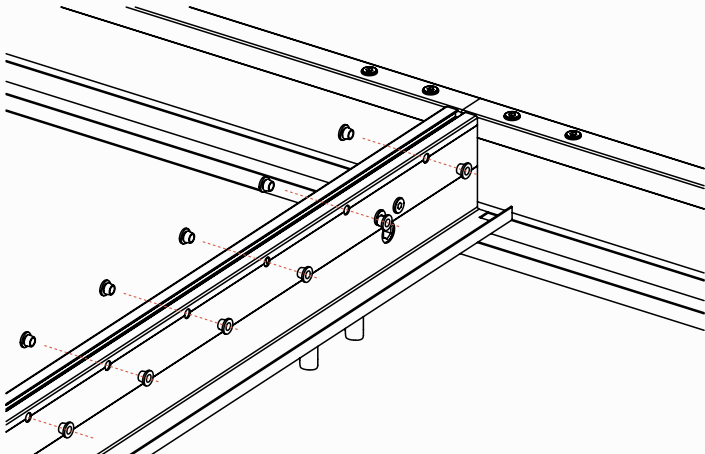
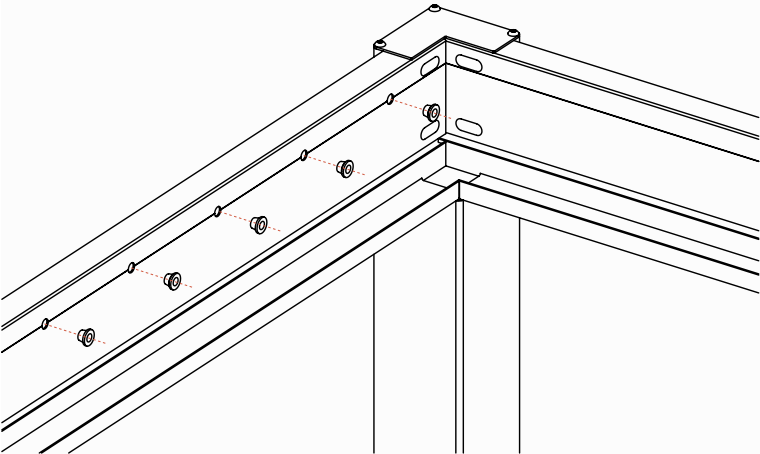
6A

Fix the post covers **N** to the top of each corner post with 3 screws **2**, using a M4 hex key.



6B

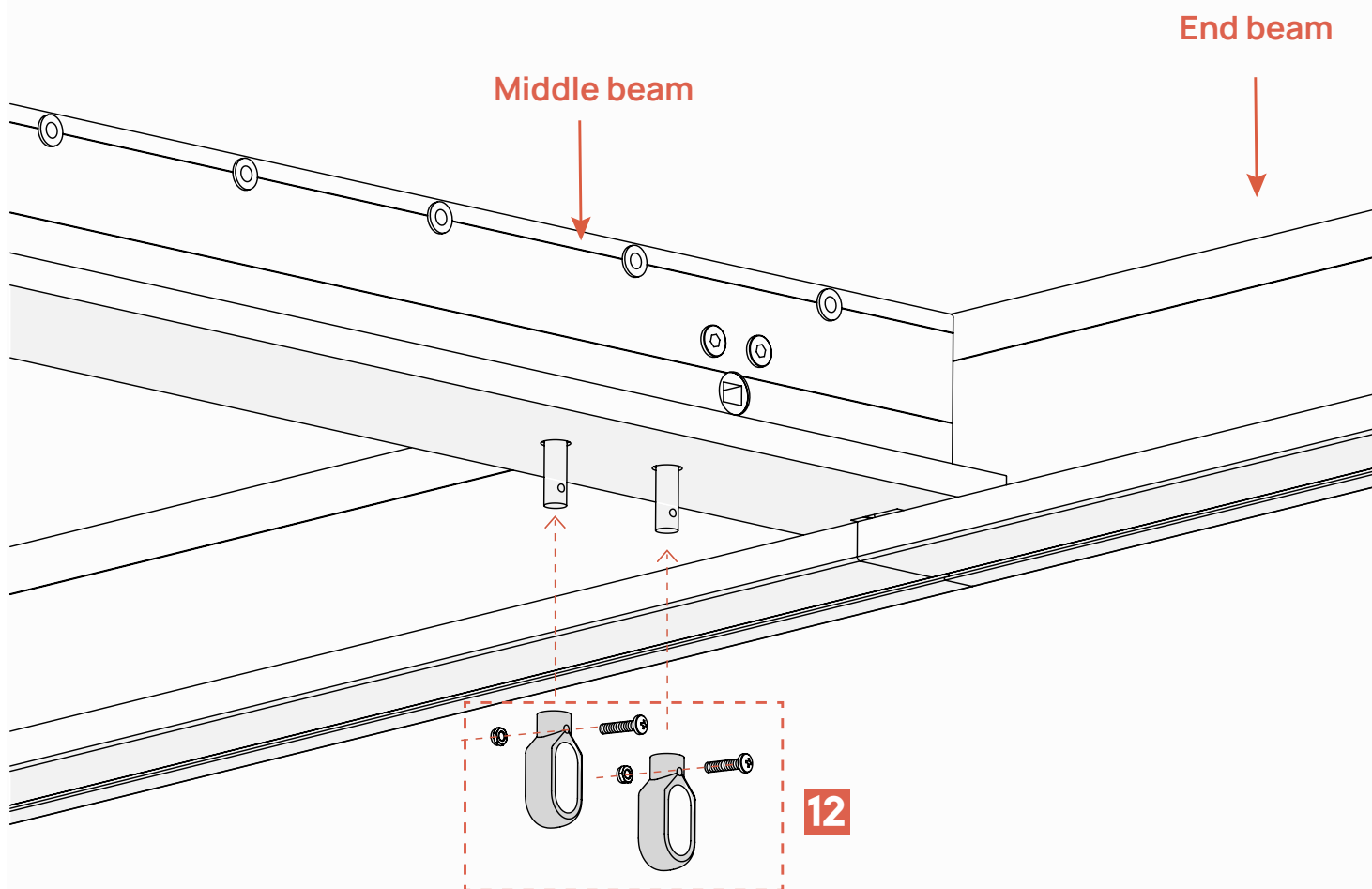
Insert rubber grommets **13** into the holes on the side beams and middle beam.



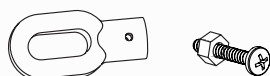
7. ATTACH THE RING CAP 12 TO THE GEAR BOX

7

Attach the 3 ring caps **12** to the gear box on the middle beam **F** and **F2** with screws and nuts.



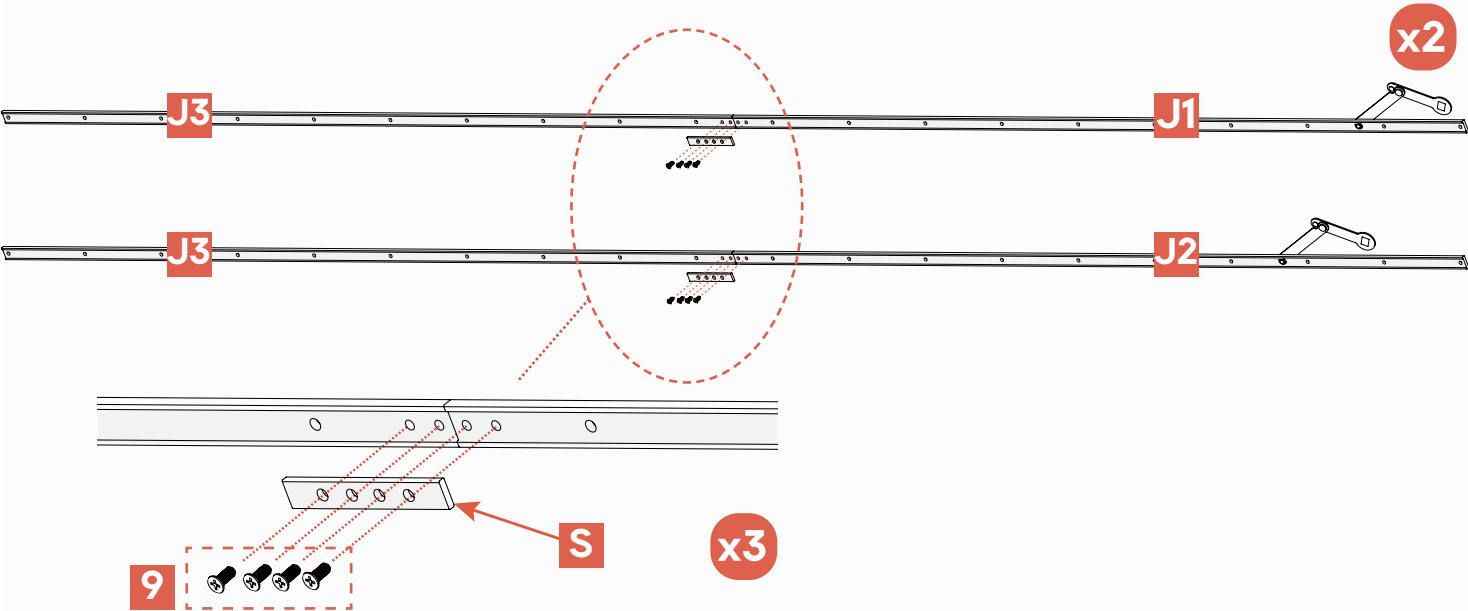
12 x 3



8. ATTACH CONNECTING STRIP WITH CONTROL ARM J1, J2 AND J3

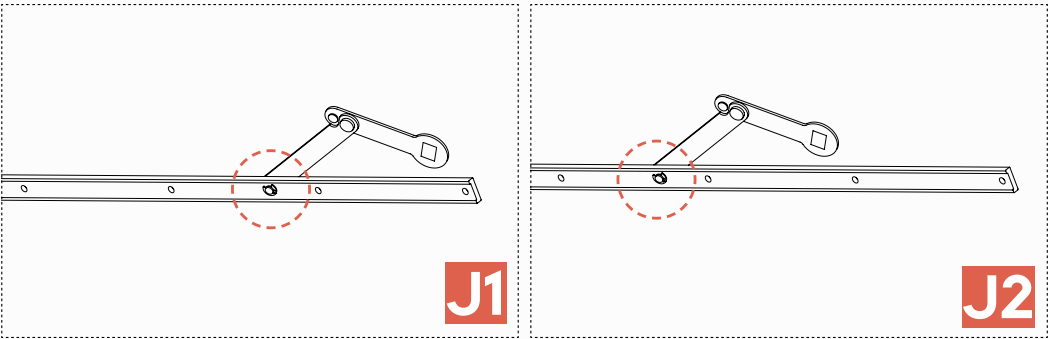
8A

Connecting **J1**, **J2** and **J3** with connecting strip **S** and 12 screws **9**, using a cordless screwdriver.



ATTENTION

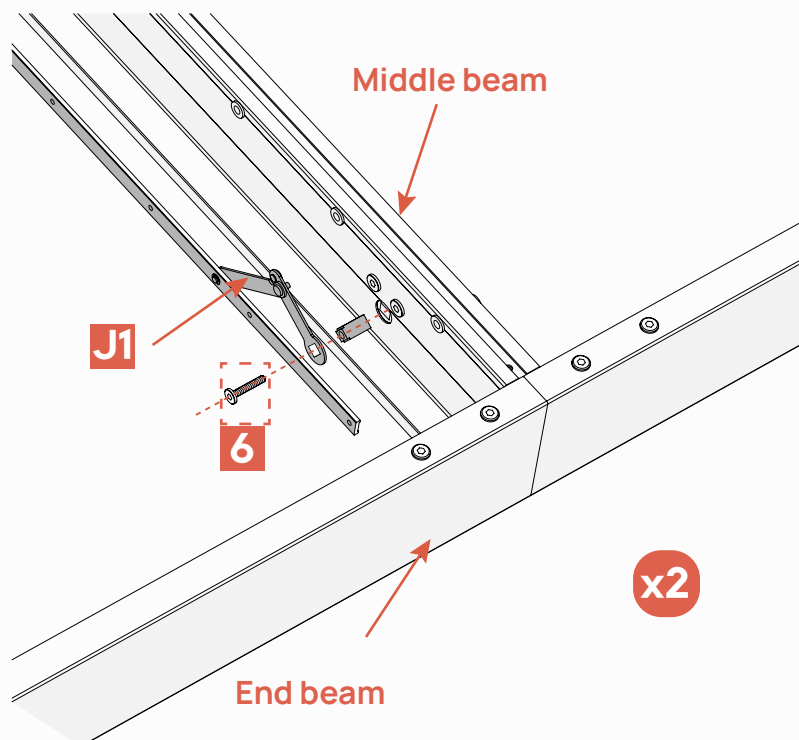
Distinguish J1 and J2 based on the position of the control arm.



- J1** x 2
- J2** x 1
- J3** x 3
- S** x 3
- 9** x 12

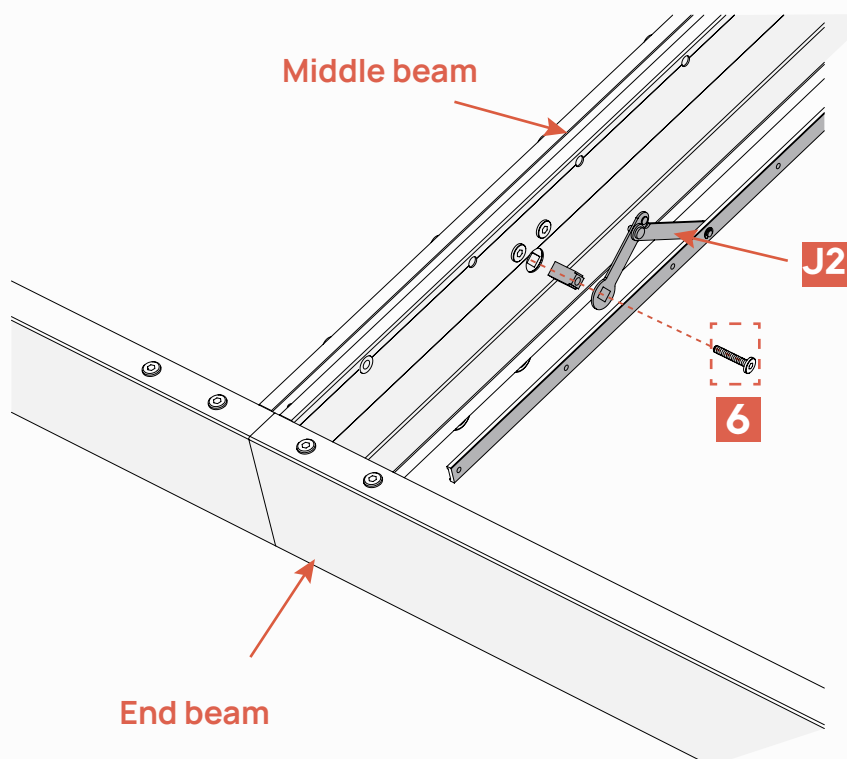
8B

Insert the drive shaft **7** into the gearbox on middle beam. Screw the control arm to gearbox with screws **6**, using a M4 hex key.



ATTENTION

Install control arm **J1** and **J2** as the direction shown in the pictures.



6 x 3



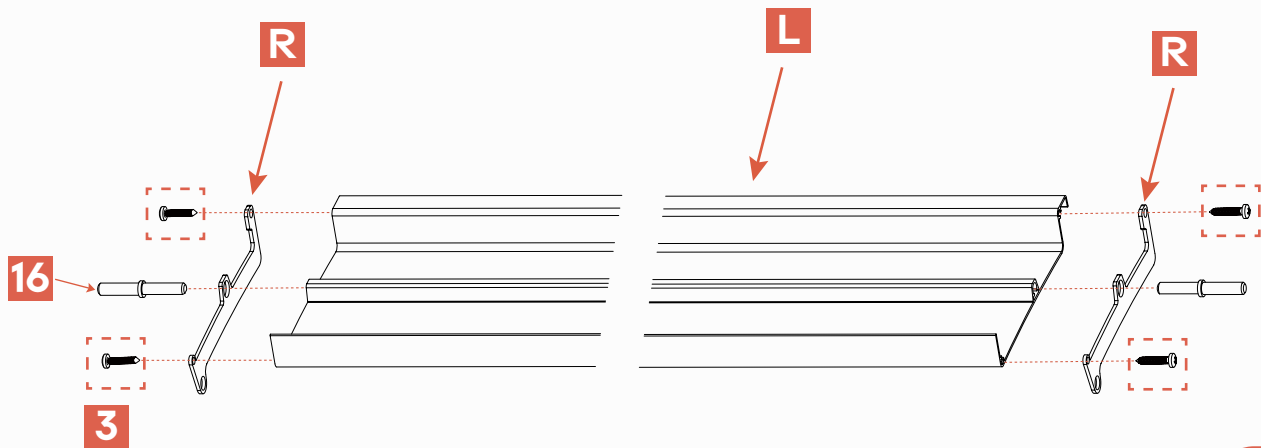
7 x 3



9. INSTALL THE LOUVERS L

9A

Attach the louver end caps **R** to each end of the louvers **L** with 2 screws **3** using a cordless screwdriver. Hammer the smaller end of louver plug **16** into the groove of louver **L**.

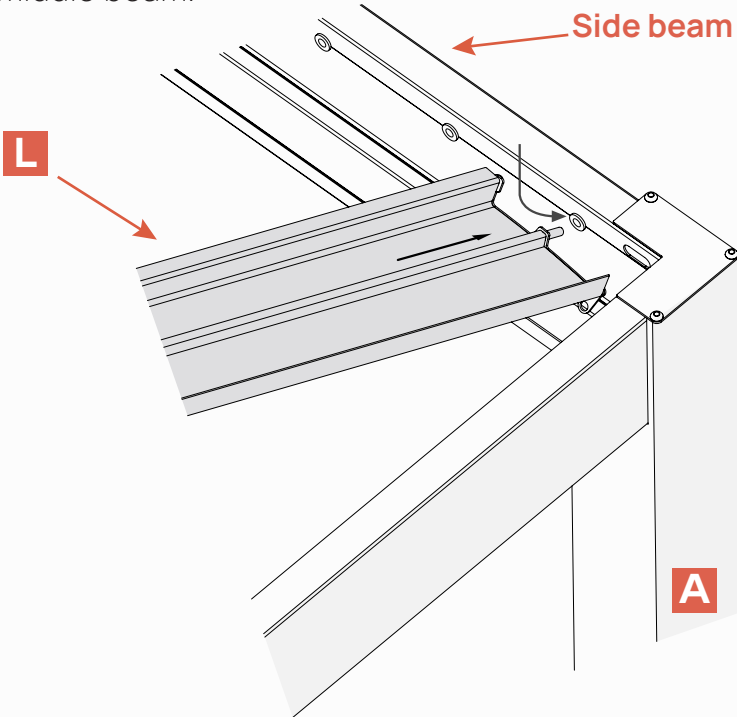


- L** x 60
- R** x 120
- 3** x 240
- 16** x 120

x60

9B

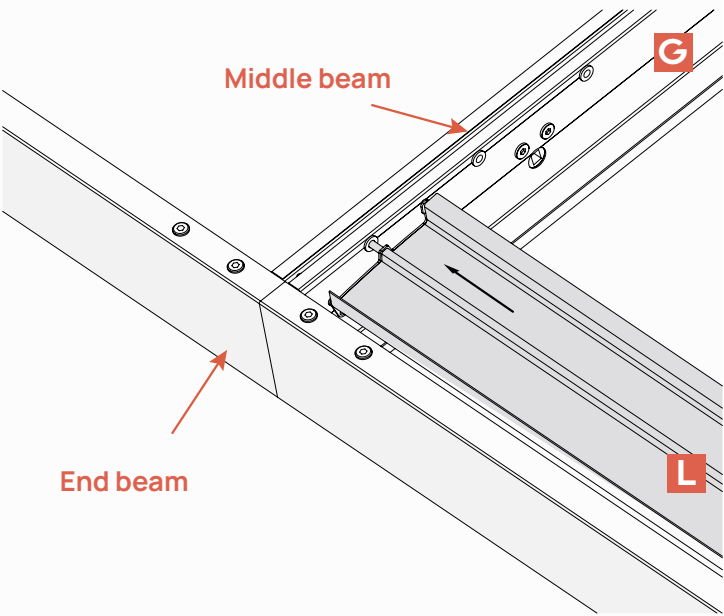
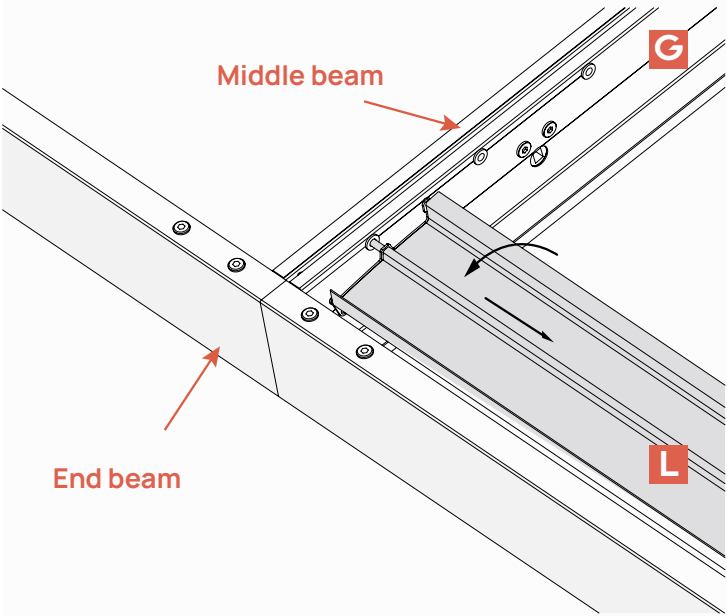
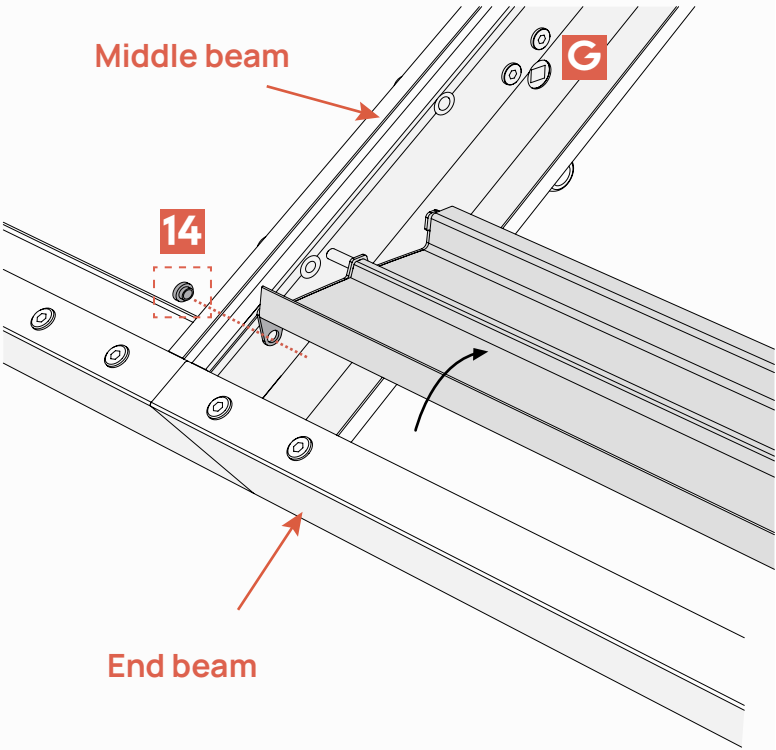
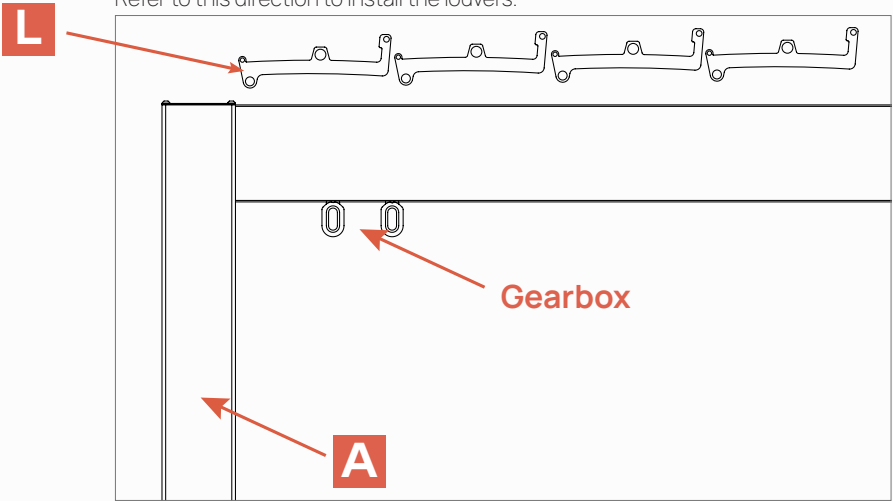
Slide the louver at a slight angle into the holes on the side beam. Push the louver through as far as possible so that it fits into the middle beam on the other side. Lower the louver slightly until you can slide this into the holes on middle beam.

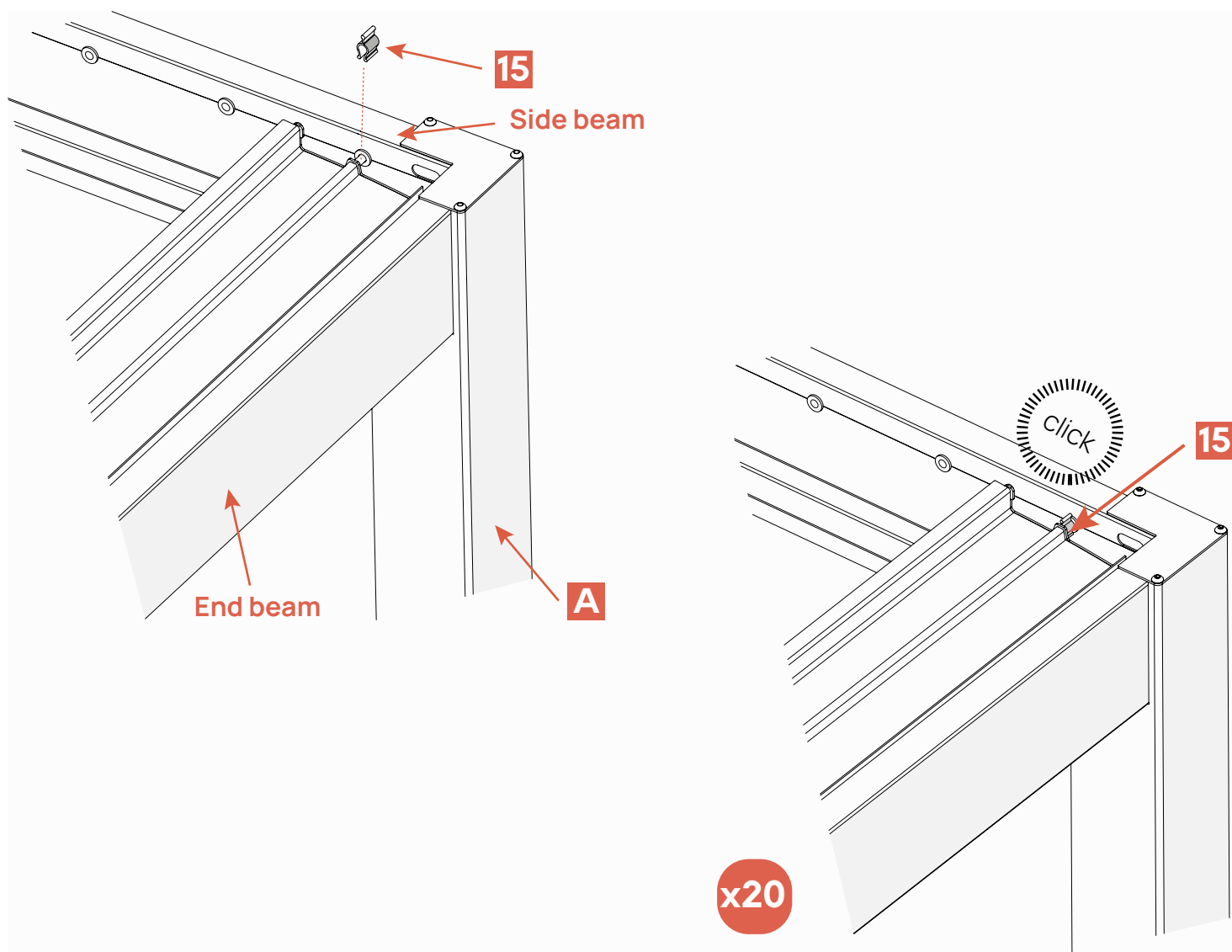


- 14** x 60
- 15** x 60

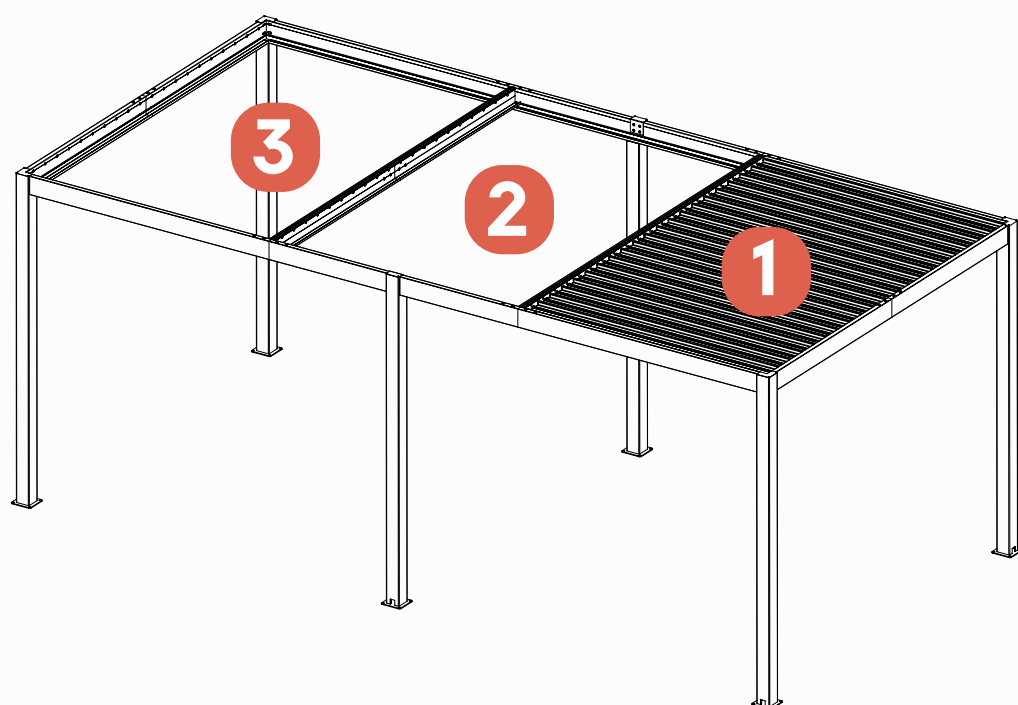
Insert the plastic washer **14** into the hole of the louver end cap near the side of the middle beam.

ATTENTION
Refer to this direction to install the louvers.

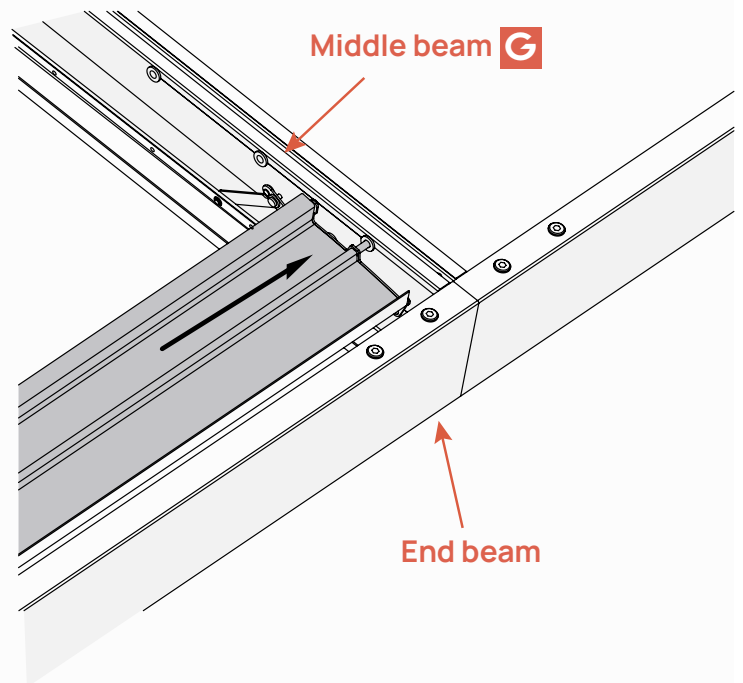
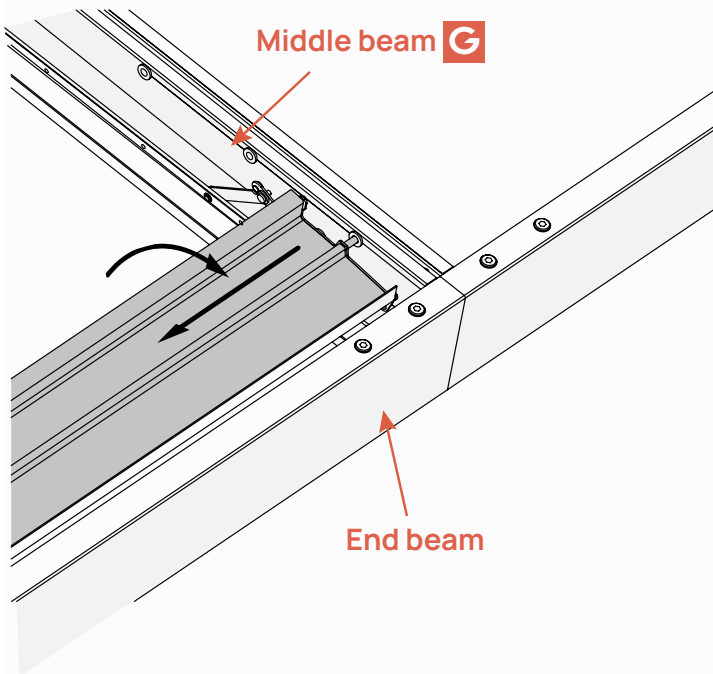
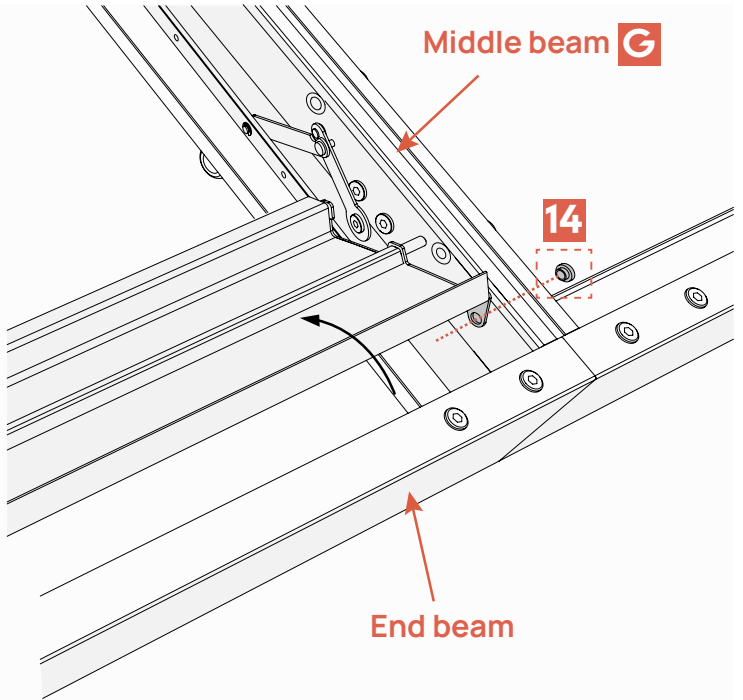
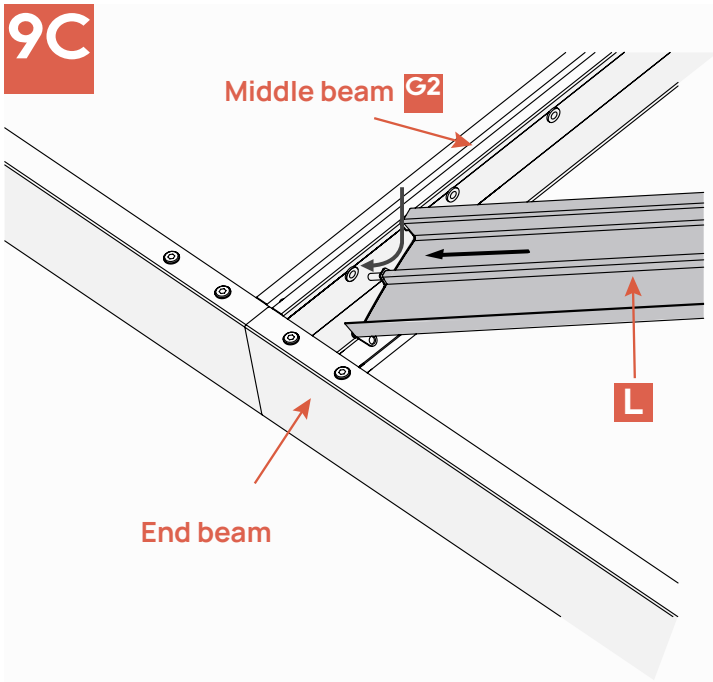


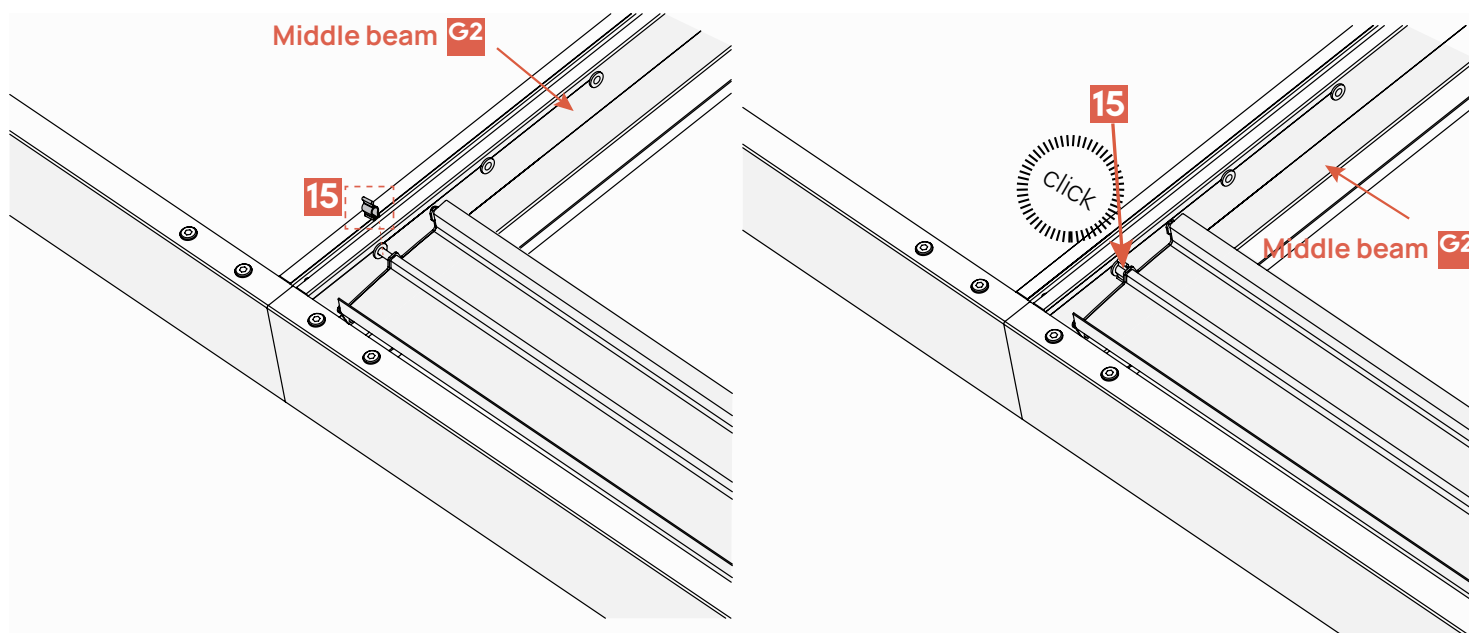


Complete the installation of the louvers for the module 1.

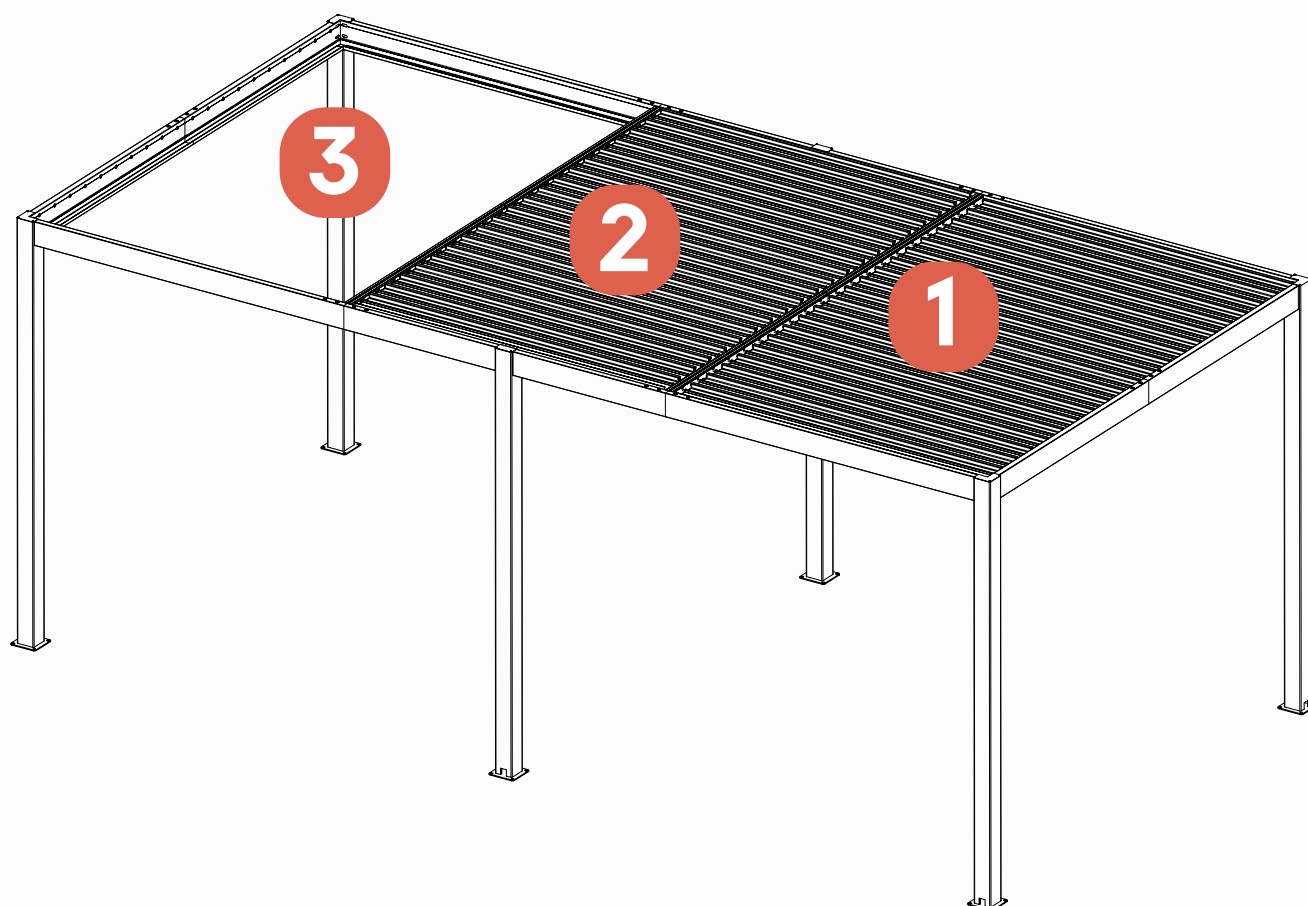


9C

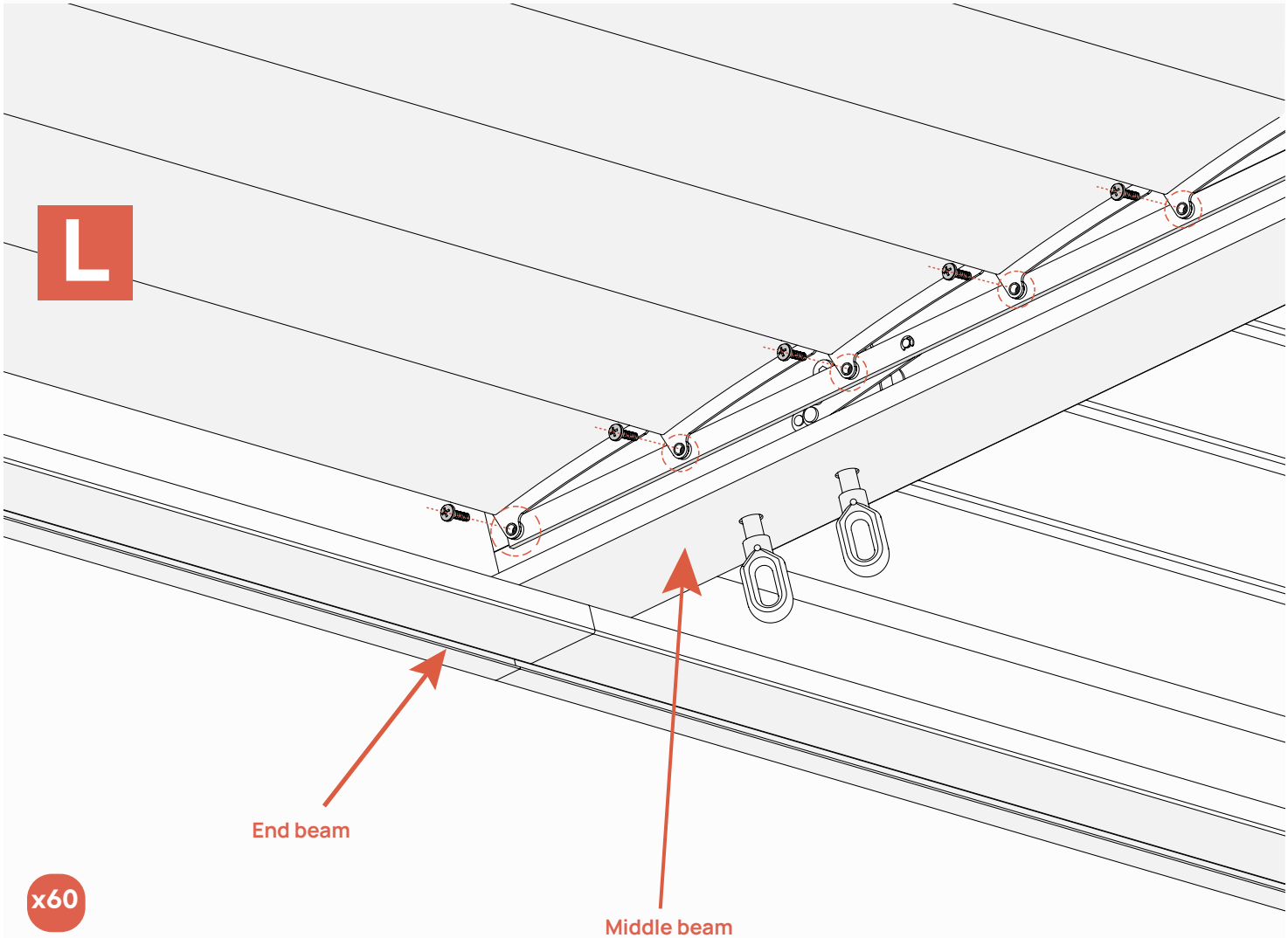




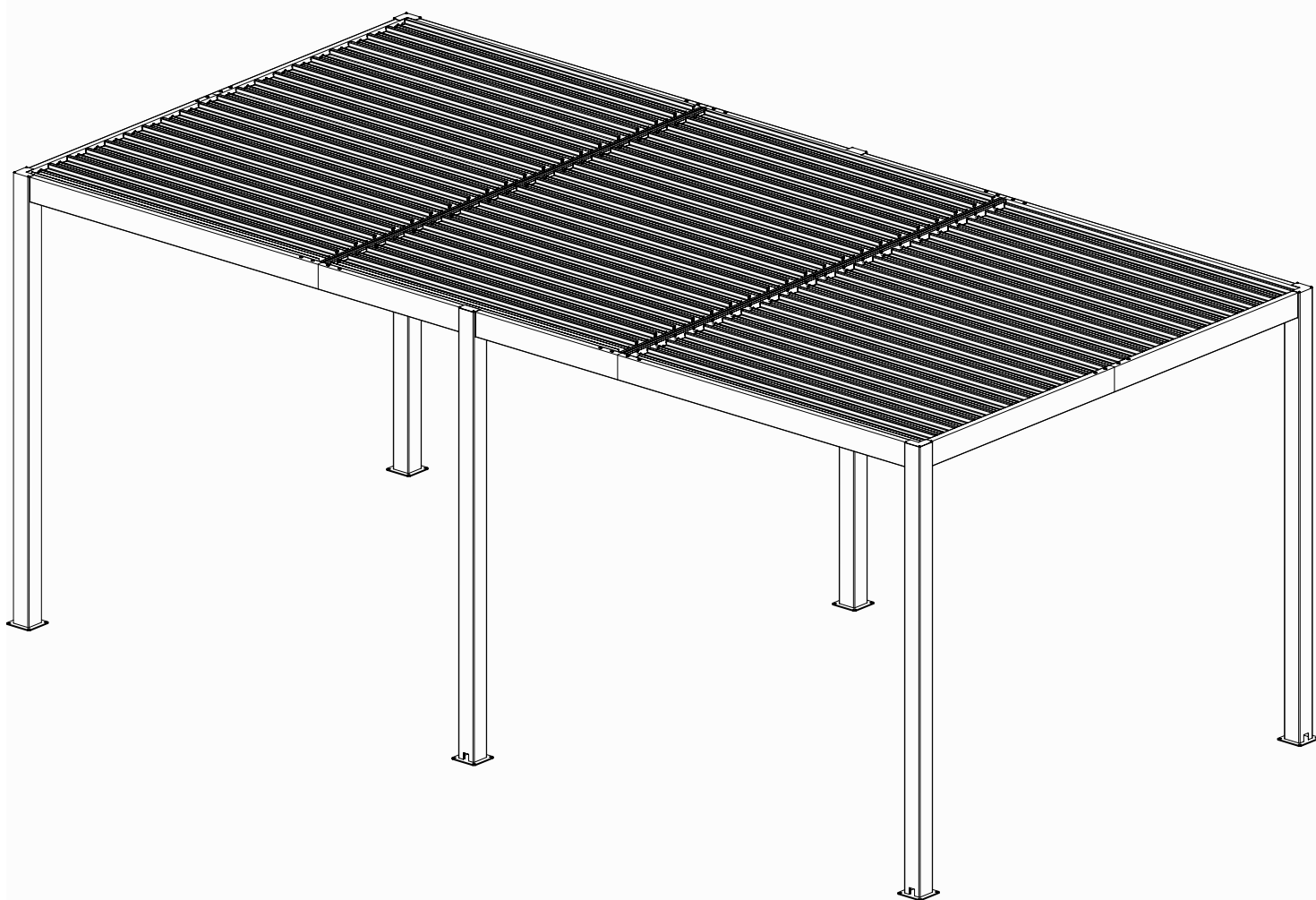
Complete the installation of the louvers for the module 2 and repeat steps 9B to complete installation of the louvers for the module 3.



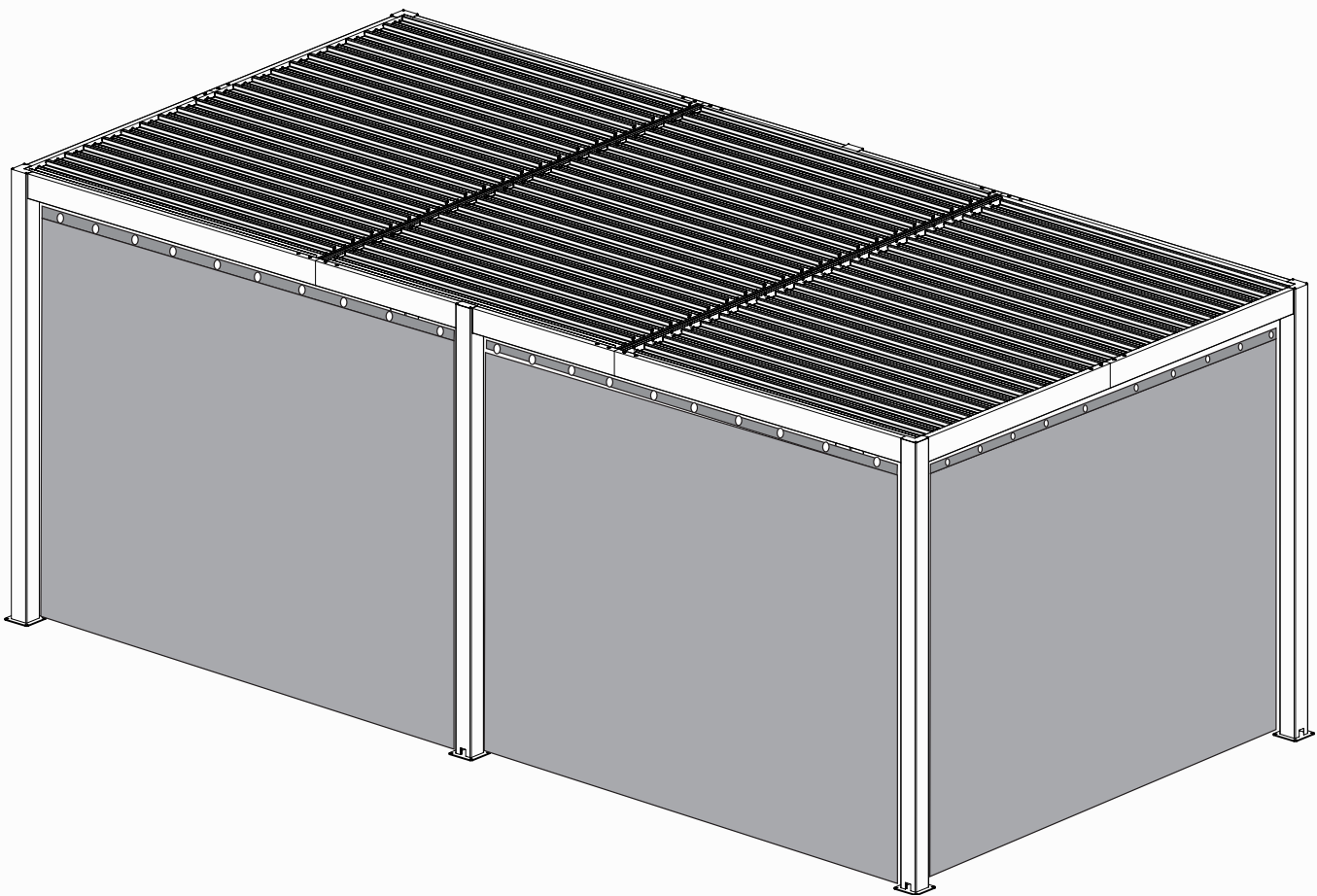
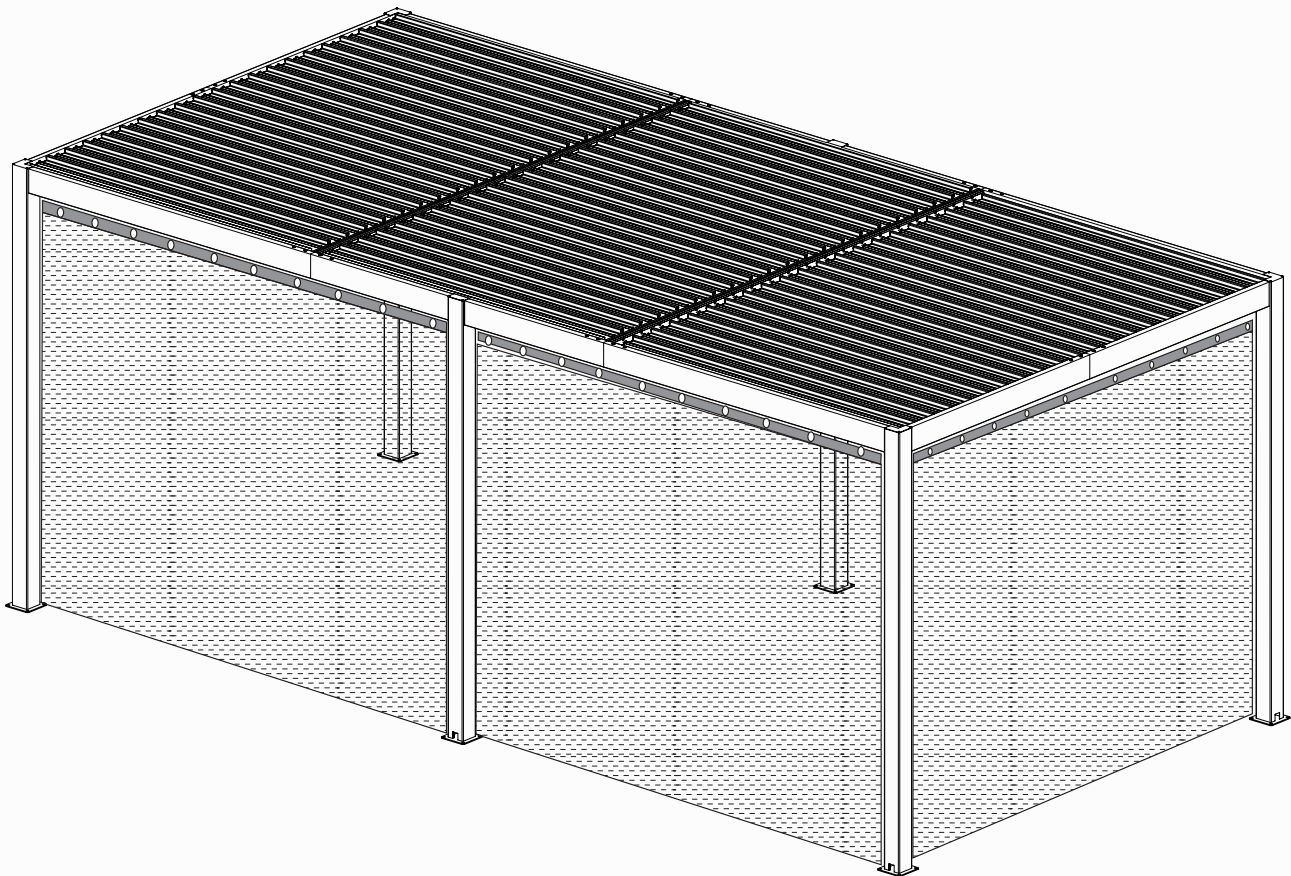
Connect the louver end caps R and connecting strip with 60 screws 8.

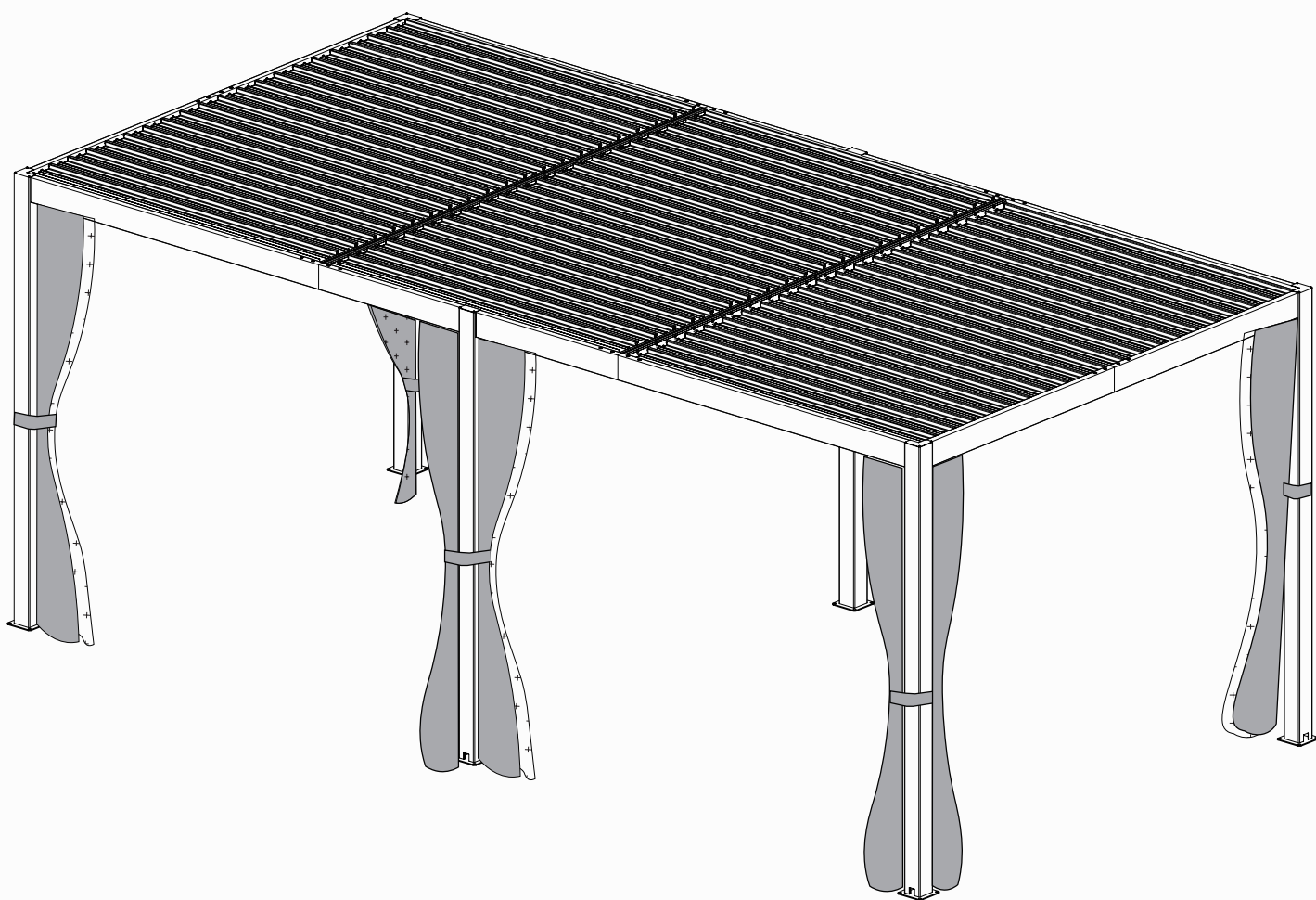
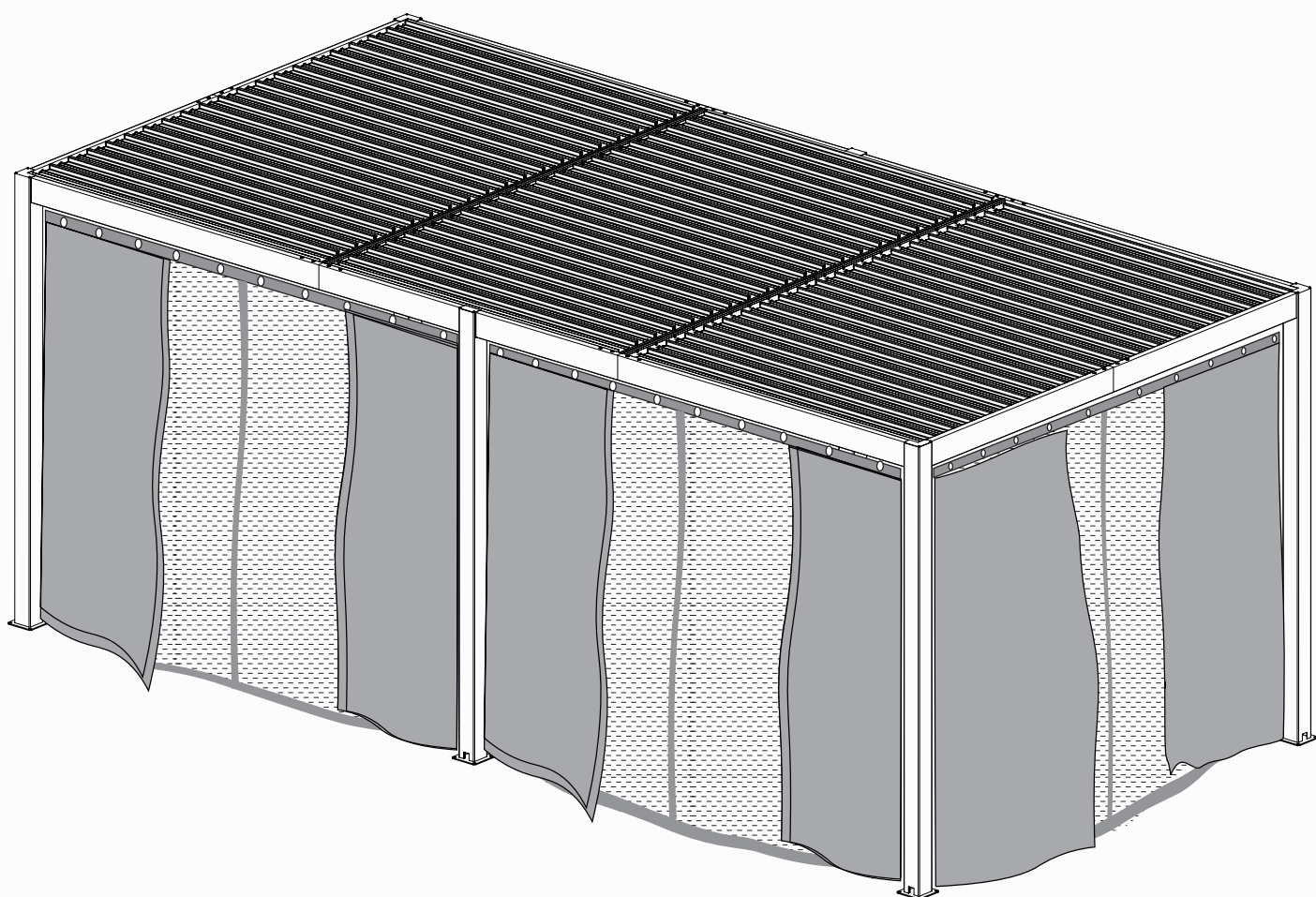


10. END OF INSTALLATION



Hang the curtain and netting **W** to the plastic hooks **19**.





GENERAL CARE & MAINTENANCE

1. Check all bolts for tightness before use. Check and tighten bolts at least once in half a year to ensure your pergola works properly to extend service life.
2. Pergola does not need to be painted, varnished, or otherwise cared for in any way. Just keep your aluminum pergola clean. Use normal detergent and water for cleaning. Be careful not to use wire brushes or sharp objects for cleaning.
3. Clean debris such as fallen leaves regularly to prevent them from blocking the drain.
4. Do not set all the louvers blades upright immediately after rain in case of ponding on the louver blades pour.
5. If the weather forecasts snowstorm or high winds, please open the louver blades in advance and remove manual cranks or other unnecessary accessories to avoid potential damage to your pergola.
6. Do not allow snow to accumulate on the louver roof. Don't control louver blades on a frost or snowy day. Remove all the louver blades before the blizzard or other natural disasters.

