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User's Manual



Assembly Video

USER'S MANUAL

LOUVRE EMAX 12'x12' ALUMINUM PERGOLA



MODEL # : L5-EMAX

ENG 12x12 L5-Louvered Pergola V250630
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For the most up to date assembly manual, please scan the QR codes
on top, or to order replacement parts , please visit www.luxpatio.com

WELCOME TO THE LUXPATIO LIFESTYLE!

Thank you for choosing LuxPatio! We believe your outdoor space should be a sanctuary, a place to relax, connect, and enjoy life's simple pleasures.

Just as our team envisioned, LuxPatio redefines what it means to unwind in your backyard. Imagine a shaded retreat where moments are made: morning coffee under soft sunlight, afternoon gatherings with loved ones, or quiet evenings beneath the stars.

With LuxPatio, your Pergola becomes more than just a structure—it becomes the heart of your outdoor living, crafted for both elegance and ease. From cutting-edge engineering to refined outdoor solutions, LuxPatio simplifies life so you can focus on what matters most.

Because your backyard isn't just part of your home—it's where memories begin.

LuxPatio
Spaces for What Matters.



This Instruction manual will gives you a comprehensive illustration about our product, including Parts, Installation, Warranty Policy, Care and Maintenance. Please carefully read the manual, and make sure NO important information is missed.

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INSTALLATION GUIDELINES AND SAFETY PRECAUTIONS

The installation of a Pergola demands meticulous attention to technical requirements and professional expertise due to its structural complexity. Key considerations include:

1. Precision Engineering

Accurate measurement and leveling of supports and framework.

Secure floor drilling with correct anchoring or approved fastening systems.

2. Operational Safety Requirements

Work at height and heavy load handling necessitate a minimum team of at least two capable adults equipped with PPE (Personal Protective Equipment) and three capable installers will be mostly recommended.

All operations must comply with relevant industrial safety standards.

3. Strict Supervision

In case of uncertainty regarding installation safety or structural integrity, consult a certified professional.

Strict adherence to assembly instructions is critical to prevent falls or structural failure.

SAFETY INFORMATION

- Keep children and pets away from any plastic bags, tools, fittings, and the assembly area until work is complete.
- Some components are heavy. Use proper lifting posture and technique. Ask for assistance if needed.
- Be careful when using sharp tools.
- Don't climb or stand on the roof.
- The Pergola should not be assembled directly under trees and powerlines.
- DO NOT assemble the Pergola in windy or wet conditions.
- Avoid using strong solvents such as thinners, or solutions containing chlorinated hydrocarbons, esters, or ketones. Do not use abrasive cleaners or cutting compounds.
- **If you have any doubt about electricity, consult a licensed electrician.**

DISCLAIMERS

- **DO NOT** modify this product, use unauthorized tools, or substitute parts only. Unauthorized modify will void your warranty.
- LuxPatio is not responsible for any damage resulting from normal wear and tear, improper assembly, misuse, or negligence.
- Manufacturer disclaims responsibility for damage arising from non-compliant installation, natural disasters, or extreme weather events. Immediate snow removal is mandatory to prevent structural overload during heavy snowfall.
- LuxPatio is not liable for typographical errors, content inaccuracies. The contents in this manual are subject to change without notice.
- The LuxPatio Pergola should only be connected to power sources installed by a licensed electrician.

BEFORE ASSEMBLY

- ⚠ Remove all parts and hardware from the box. Place all items on a carpeted or scratch-free work surface, as this will avoid damaging parts during assembly.
- ⚠ The shipping box can provide an ideal work surface if none is available.
- ⚠ To avoid accidentally discarding small components or hardware, do not dispose of any packaging or contents of the shipping carton until assembly is complete.
- ⚠ **DO NOT** fully tighten all fasteners / screws until all parts are in place. Failure to follow these instructions may cause the fasteners / screws to misalign during assembly.

ASSEMBLY NOTES

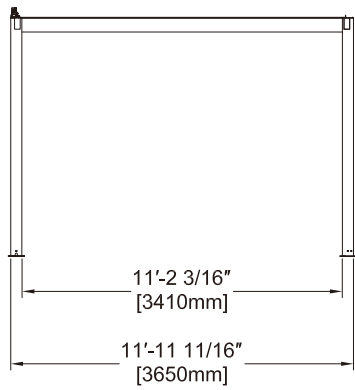
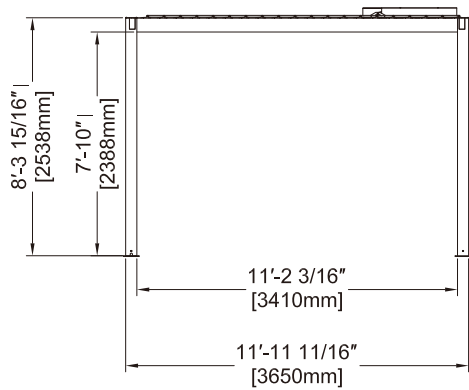
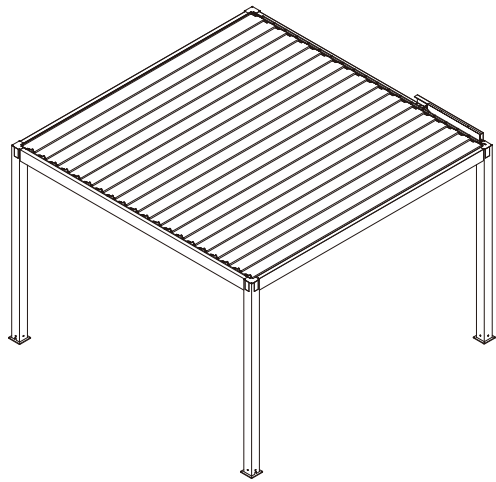
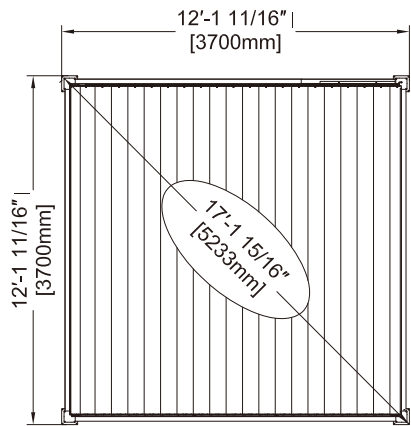
It is critical to begin with square, level footings, namely a flat surface such as a concrete pad or deck before attaching your structure.

- Carefully review the required items for each step. Always use the correct hardware, as incorrect hardware may cause structural damage or insufficient clearance.
- Always double-check for underground utilities and overhead electrical lines clearance before installation.

Post mounts are included, allowing you to permanently install your structure onto an existing or new wood or concrete surface. See Anchoring Layout for further details and recommendations.

- Hardware to connect the post mounts to the structure is included.
- Hardware for permanent concrete installation is also provided.
- Ensure there is adequate structural support beneath the deck before permanent attaching.

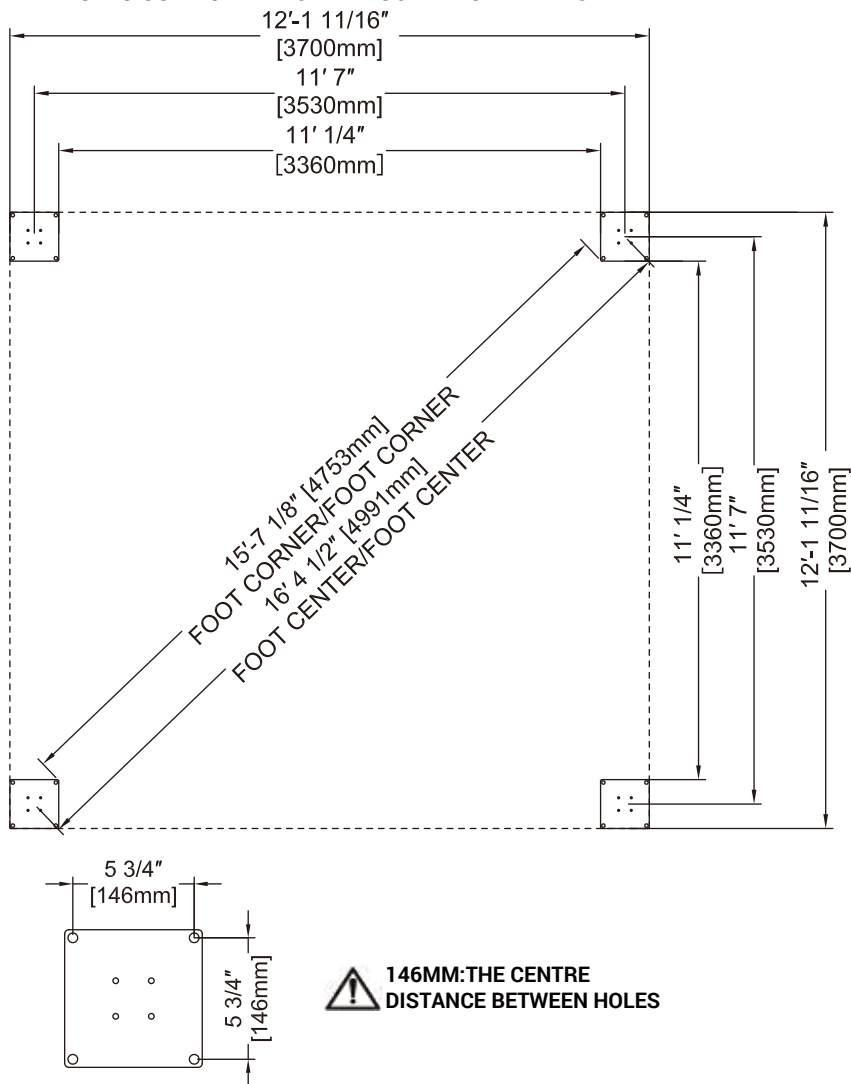
DIMENSIONS



ANCHORING LAYOUT

NOTE: DIMENSIONS ARE TO ANCHOR PLATE ON BOTTOMS OF POST
EXCEPT WHERE NOTED

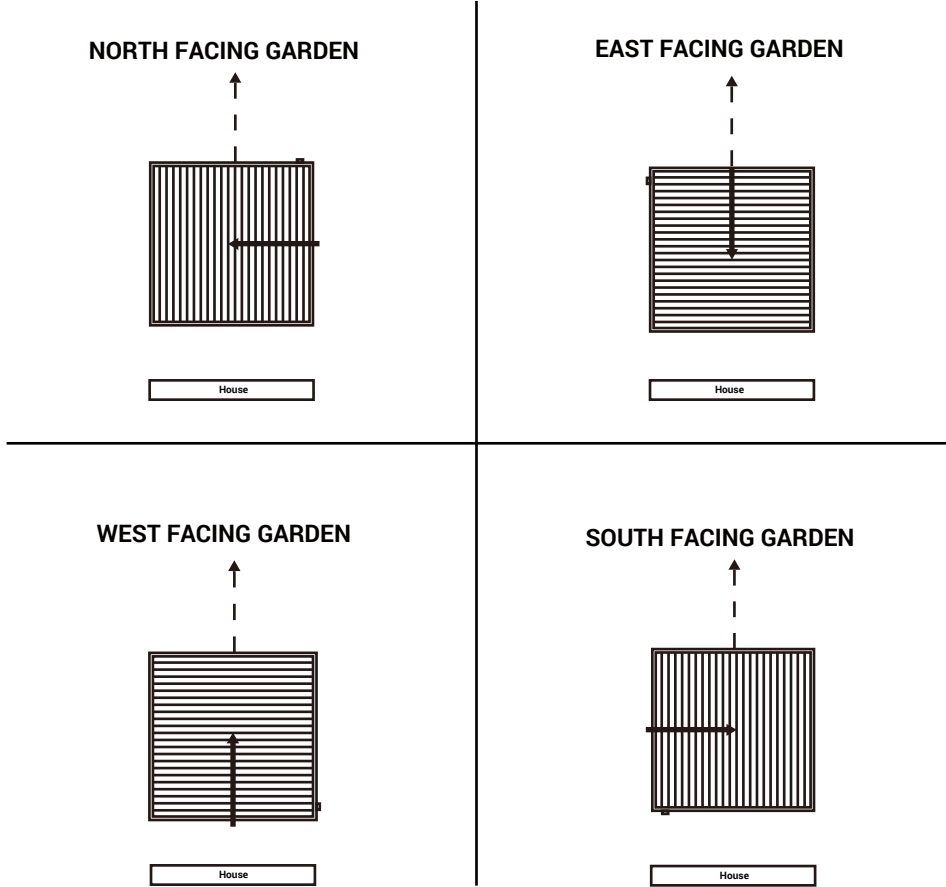
THE PROTRUDING ROOFTOP MAY REQUIRE EXTRA CLEARANCE. ENSURE
CLEARANCE IS SUFFICIENT FOR PERGOLA INSTALLATION.



RECOMMENDED LOUVRED POSITION

The louvres and gearbox location can be placed in your preferred position. However, we suggest the louvres to be positioned perpendicular to the sunlight for the best lighting. Please refer the guide below to maximize your sunlight accordingly.

TOP TIP
KEEP THE GEARBOX LOCATION AS
NORTHERLY AS POSSIBLE



SORTING PARTS

HARDWARE PARTS:

- Hardware blisters pack are labeled with alphanumeric part numbers.
- It is highly recommended to pre-organize hardware by part number or type (e.g., bolts, nuts, etc.).
- Parts can also be sorted by the alphabetical portion of their part code, which helps guide the order of installation.
- Fasteners should only be selected during their designated assembly step to avoid losing.
- The quantity listed on the Parts page reflects the number of components required for installation. (There are a few spare screws for backup)
- It is recommended to remove stickers from large parts only after installation is complete.
- Additional spare fasteners are available and individually packaged.

CARTONS ARE NOT ORGANIZED BY PART NUMBER. IT IS RECOMMENDED TO LEAVE LOUVER COMPONENTS IN THE BOX UNTIL NEEDED FOR ASSEMBLY.

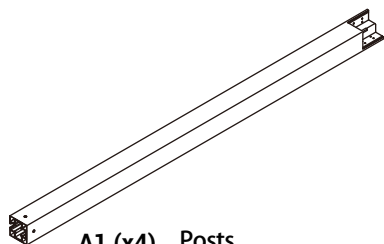
PARTS IDENTIFICATION EXAMPLE



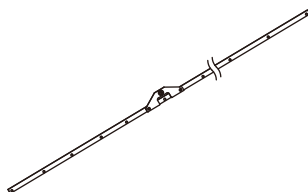
Part No.	Quantity	Name Description	Specifications
S1	x48	Hexagon Socket Countersunk Head Screws	M6*20mm

PARTS IDENTIFICATION

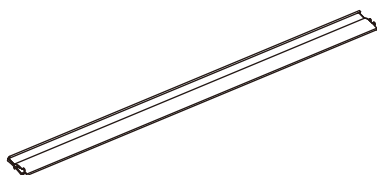
METAL COMPONENTS (NOT TO SCALE)



A1 (x4) Posts
8'-3 5/8" x 4 3/4" x 4 3/4"
(2530*120*120mm)



G (x1) Pushrod
10'-11 1/8" x 11/16" x 3/8"
(3330*18*10mm)



F (x20) Louvers
11'-5 1/16" x 1 5/16"
(3480*195*33.2mm)



B1 (x1) Left Crossbeam
11'-6 15/16" x 5 7/8" x 3 15/16"
(3529*150*100mm)



B2 (x1) Right Crossbeam
11'-6 15/16" x 5 7/8" x 3 15/16"
(3529*150*100mm)



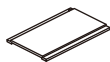
C1 (x2) Front and Rear Crossbeams
11'-6 15/16" x 5 7/8" x 3 15/16"
(3529*150*100mm)

PARTS IDENTIFICATION

METAL COMPONENTS (NOT TO SCALE)



K1 (x4) Base Plate
5 7/8" x 5 7/8" x 5/16"
(170*170*8mm)



K2 (x8) Decorative Plate
4 3/4" x 2 15/16" x 3/16"
(120*74*5mm)

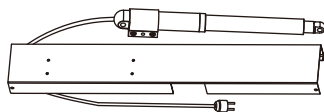


K3 (x4) Top Cover Plate
4 3/4" x 4 3/4"
(120*120mm)



K4 (x8) Base Plate Cover
7 8/16" x 7 8/16" x 9/16"
(190*190*39mm)

MOTOR KIT (NOT TO SCALE)



M1 (x1) Motor, Adapter And Cover
3'-3 6/16" x 4 2/16" x 1 15/16"
(1000*105*50mm)



M2 (x1) Motor Seat
2 12/16" x 1 9/16" x 1 14/16"
(70*40*47mm)



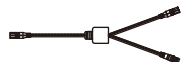
M3 (x1) Remote Control
DC2708AA



M4 (x1) Shock-Absorbing Plate
4/16" x 10/16"
(φ6 & M6*16mm)



M5 (x1) Motor Cover
2'-7 8/16" x 4 2/16" 15/16"
(800*105*25mm)



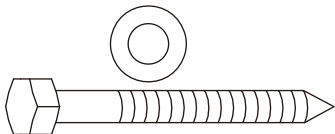
M6 (x1) T-Joint Wire

PARTS IDENTIFICATION

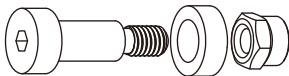
FASTENERS (NOT TO SCALE)



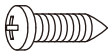
S1 (x48) Hexagon Socket Countersunk Head Screws
M6*20 mm



S2 (x16) Hex Lag Screws and Flat Washers
φ10*50 & M8*75 φ8 mm



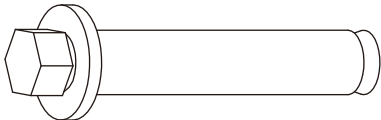
S3 (x20) Stop Bolts, Plastic Washers Lock Nuts
M6*φ8*16, φ14xφ8x5, M6 mm



S4 (x12) Cross Recessed Pan Head Self-Tapping Screws
ST5.5*16 mm



S5 (x8) Cross Flat Head Self-Tapping Screws
ST3.5*13 mm

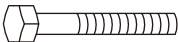


S6 (x16) Hex Head Expansion Bolts
φ8*80 mm

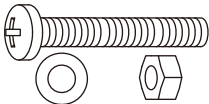
MOTOR KIT FASTENERS (NOT TO SCALE)



S7 (x5) Hex Button Screws and Flat Washers
φ6*M6*16 mm



S8 (x1) Hexagon heax Bolt
M6*40 mm



S9 (x1) Nut & Flat Washer & Bolt
M10&φ10 &M10*55 mm



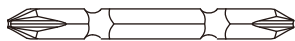
S10 (x2) Cross Recessed Pan Head Self-Tapping Screws
ST4.2*16 mm



S11 (x5) Adhesive Clip
13*13*9 mm

PARTS IDENTIFICATION

TOOL (NOT TO SCALE)



T1 (x1) Phillips Screwdriver Bit
PH2 65mm HRC60



T2 (x1) Hex Screwdriver Bit
4mm 65mm HRC60



T3 (x1) Hex Wrench
4mm 140 x 25mm HRC60



T4 (x1) Carbide-Tipped SDS Rotary Hammer Bit
φ12 x 150mm



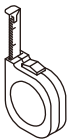
T5 (x1) Sealant
85g

TOOLS REQUIRED

WHAT YOU MAY NEED?



Ladder x2



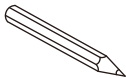
Tapeline



Mallet



Level



Marker Pen



Wrench



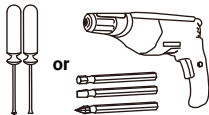
Glove



**Ø10mm
Electric Screwdriver**



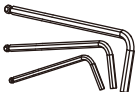
Safety Hat



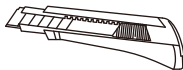
**Screwdriver or
Electric Screwdriver**



Sleeve Tool

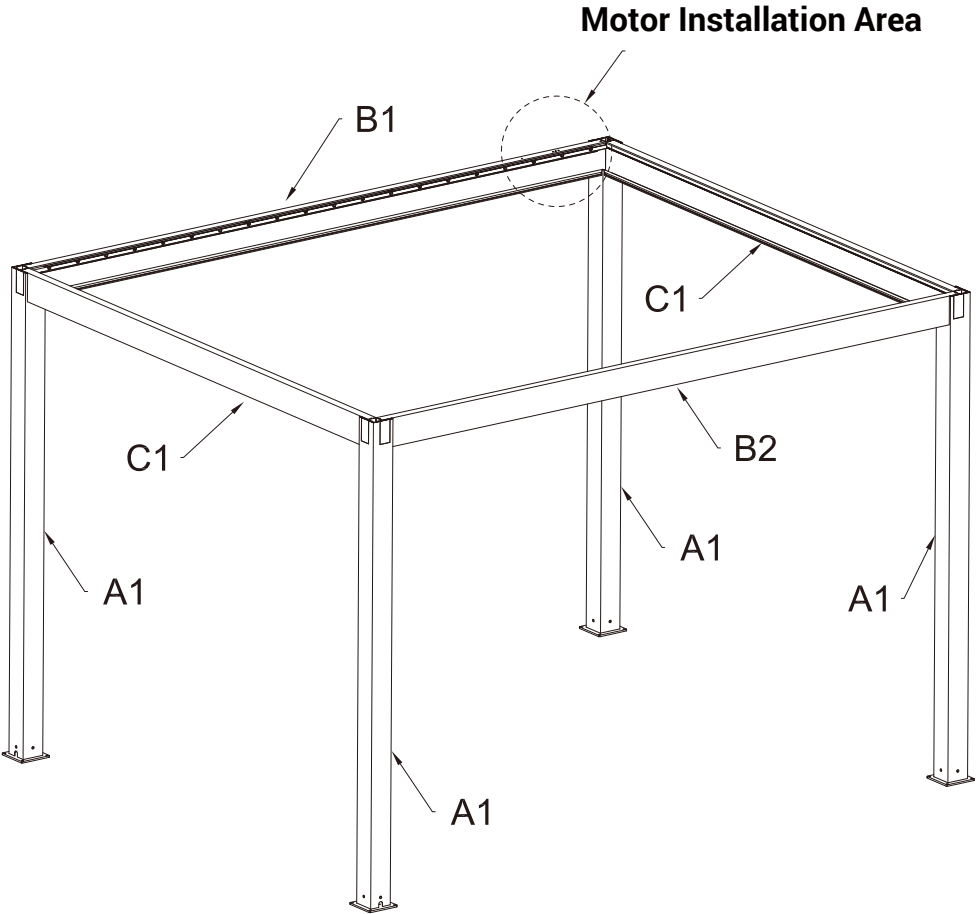


Allen Key



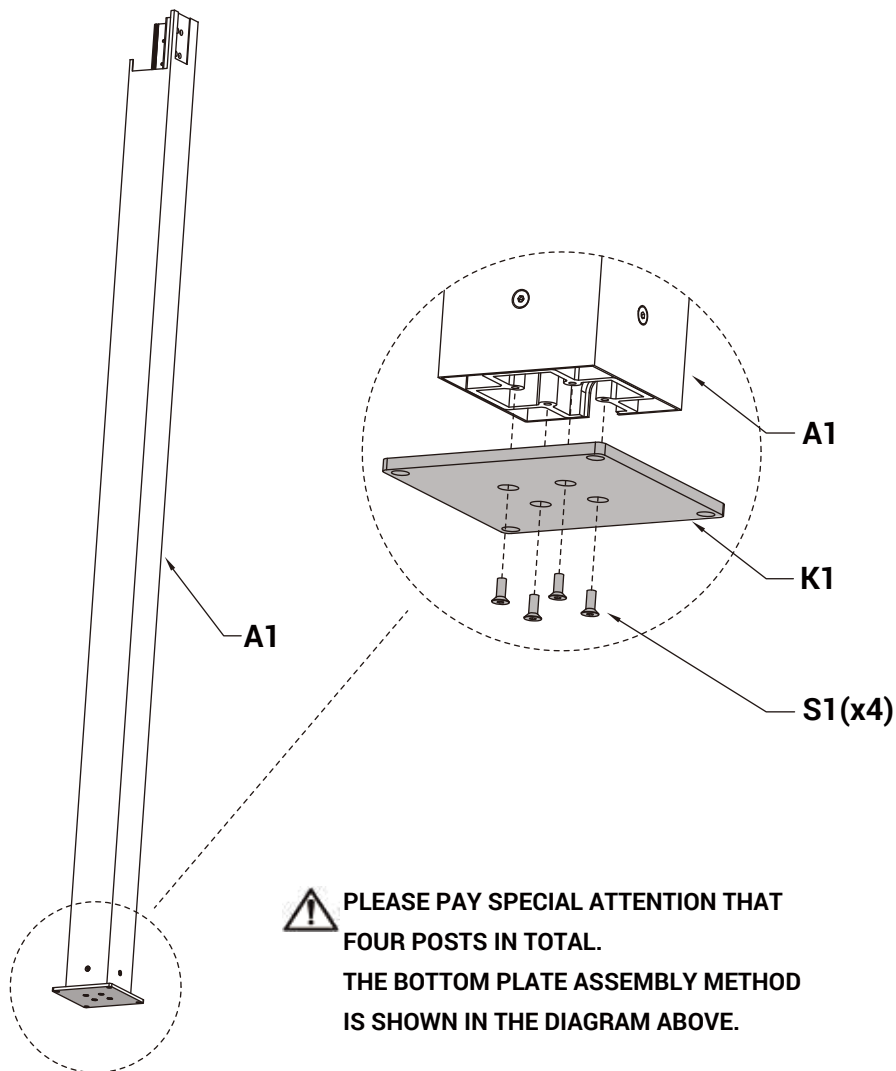
Utility Knife

OVERVIEW OF THE FRAMEWORK

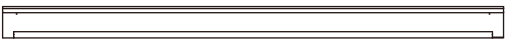


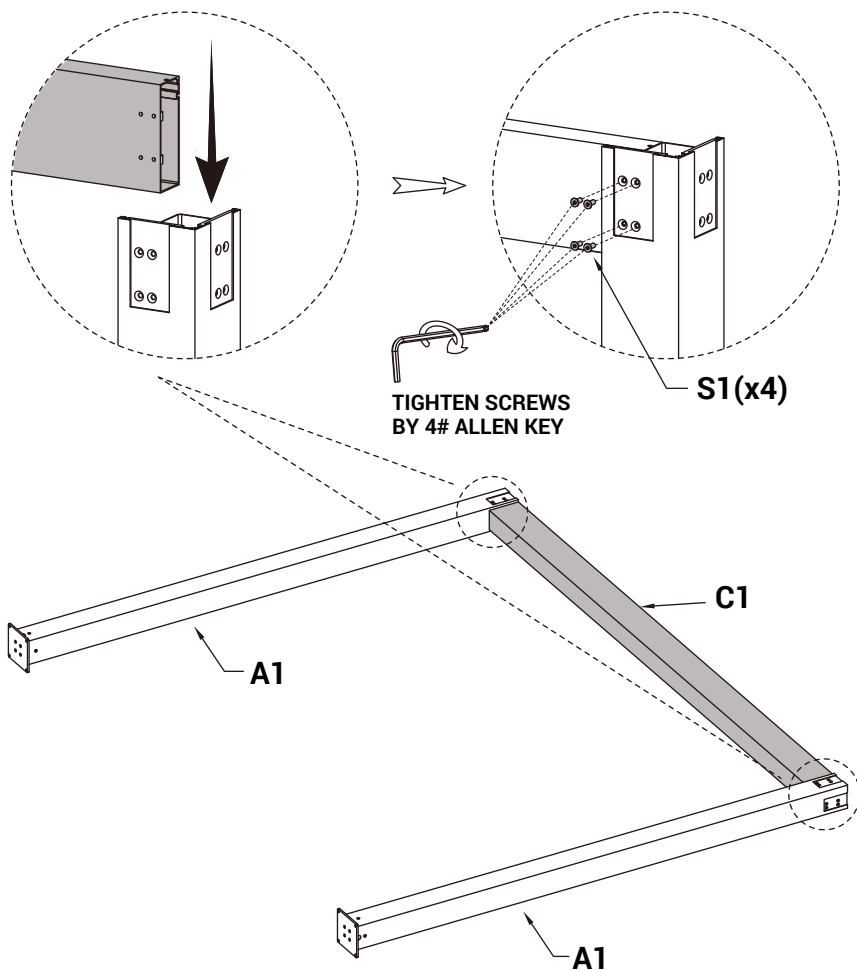
1

A1		x4
K1		x4
S1		x16



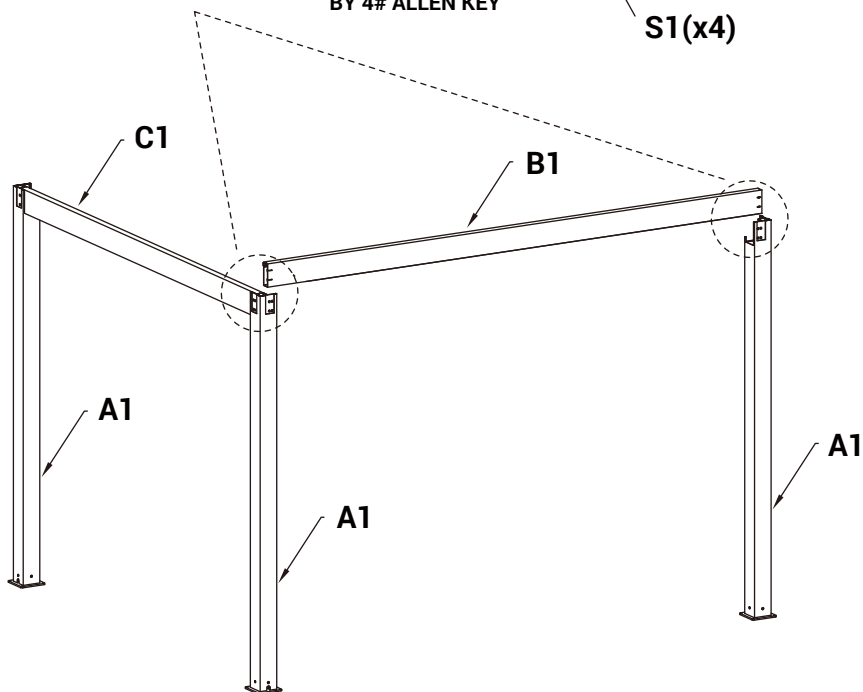
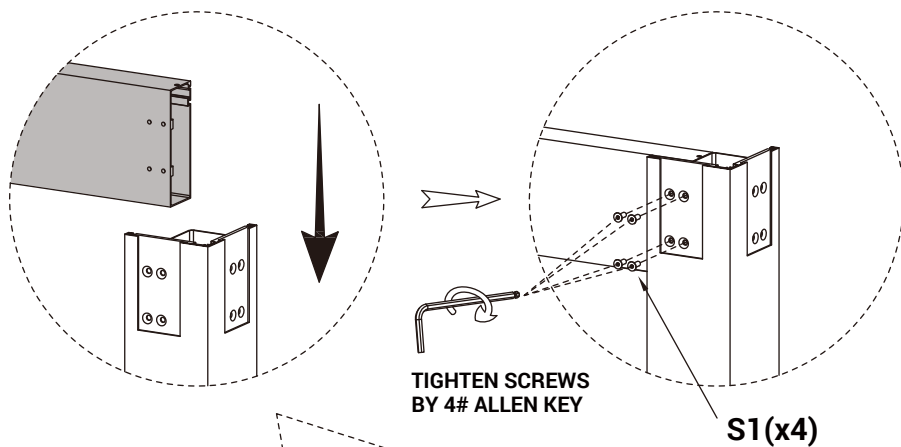
2-1

C1		x1	S1		x8
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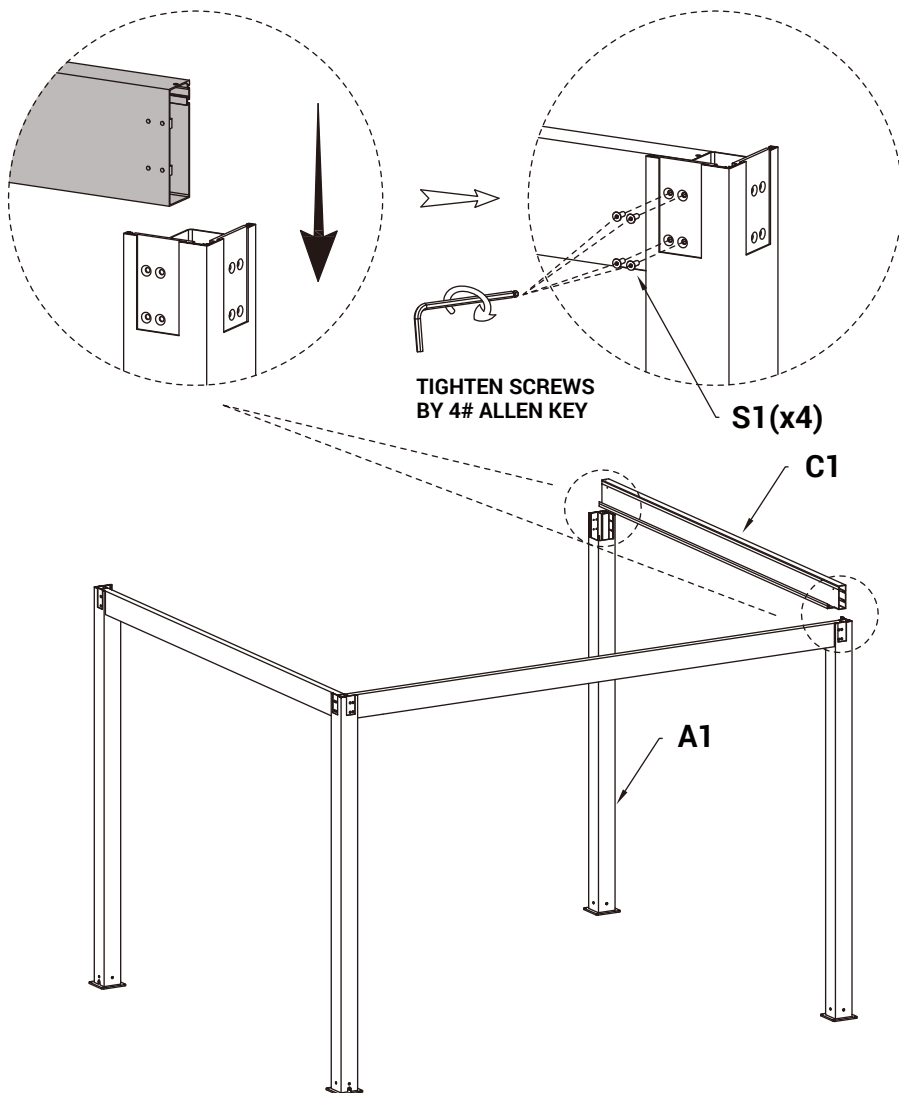
2-2

B1		×1	S1		×8
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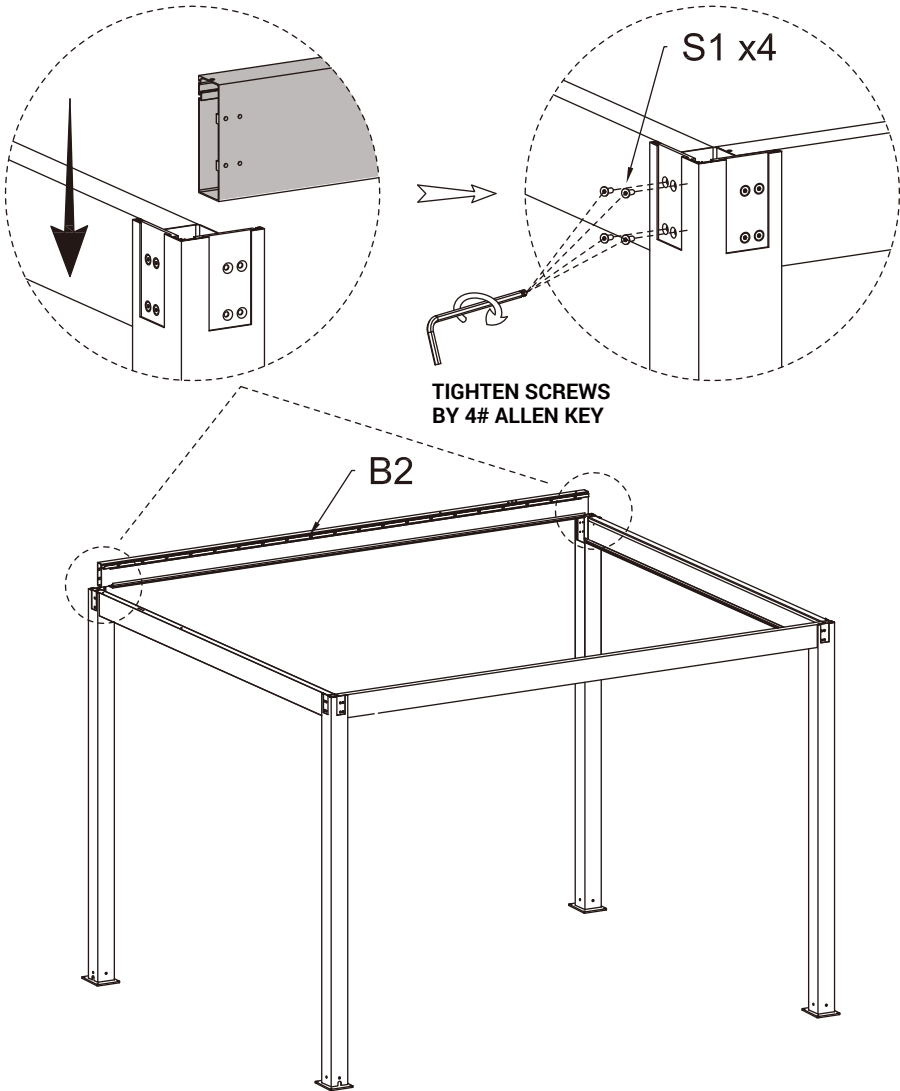
2-3

C1		x1	S1		x8
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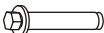


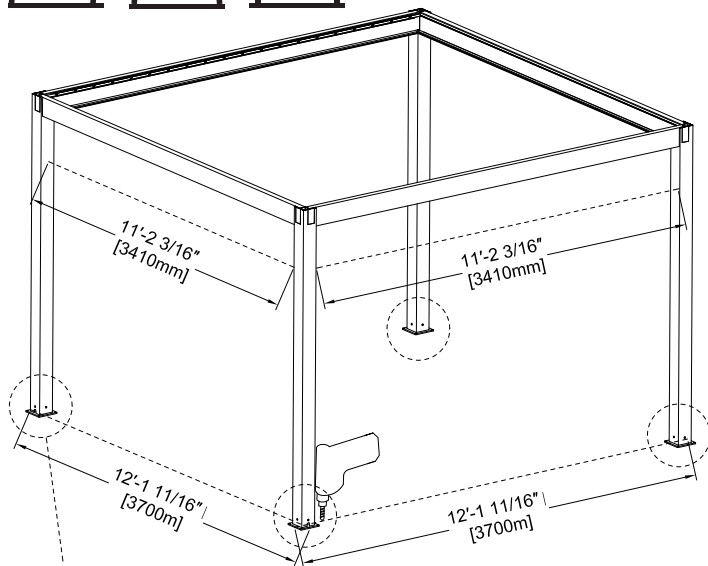
2-4

B2		x1	S1		x8
-----------	---	-----------	-----------	---	-----------



2-5

S6		x16	S2		x16	S2		x16
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WE OFFER TWO TYPES OF ANCHOR METHOD.

FOR CONCRETE FLOOR

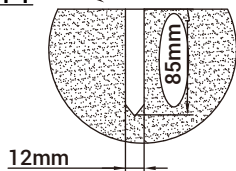
FOR DECK

x16

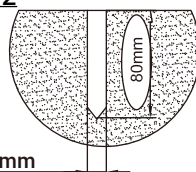


TIGHTEN SCREWS
BY #13 WRENCH

Plan-1

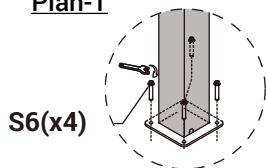


Plan-2



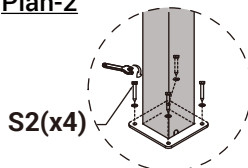
TIGHTEN SCREWS
BY #13 WRENCH

Plan-1



x4

Plan-2



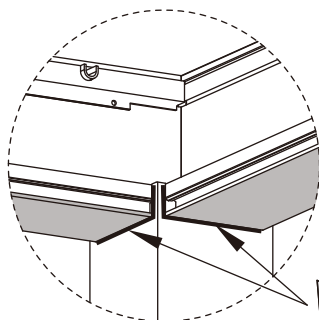
x4

3

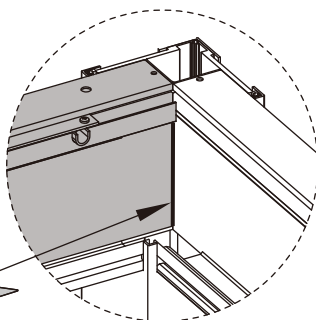
T5



x1



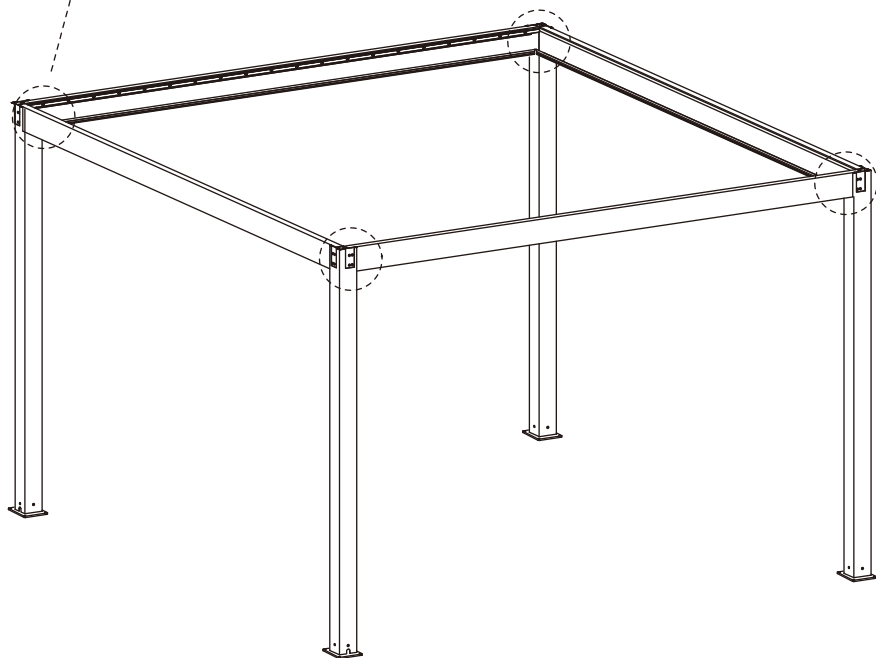
T5



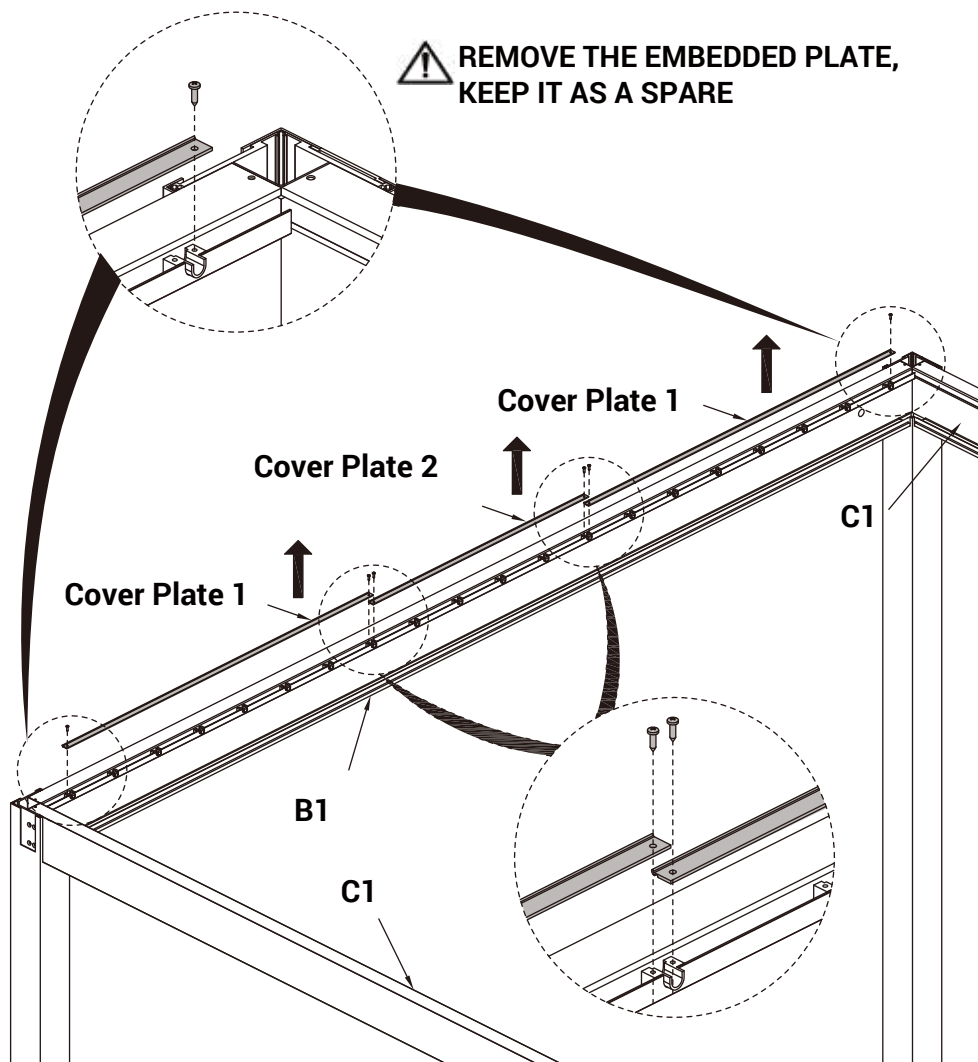
x4



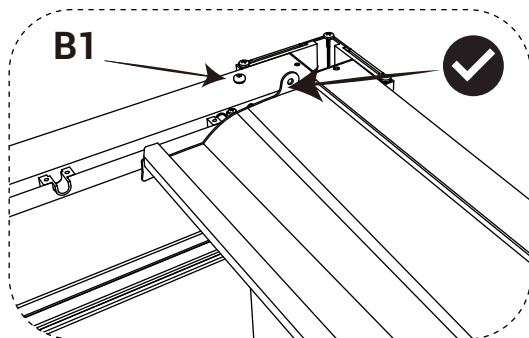
**APPLY THE SEALANT ON
THE FRONT BEAM SEAM**



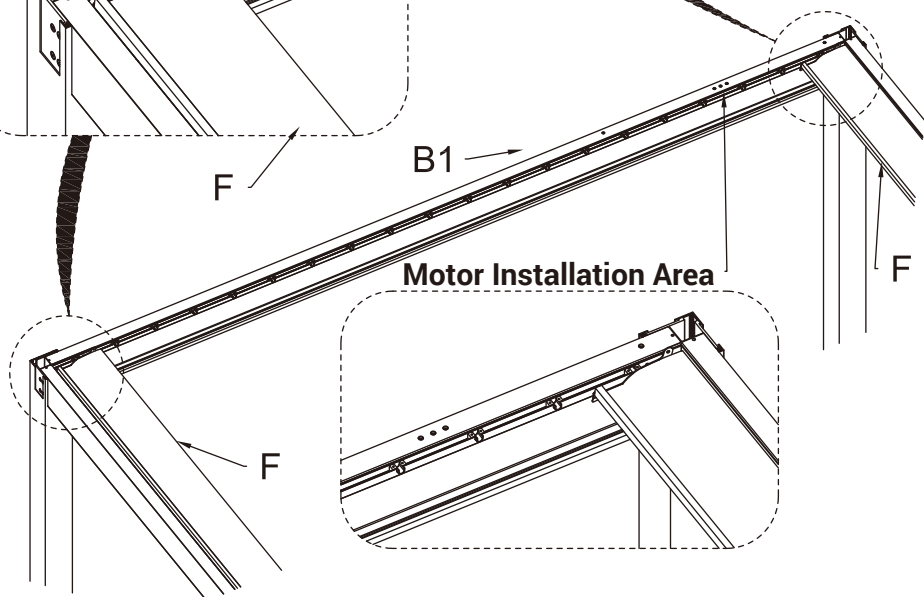
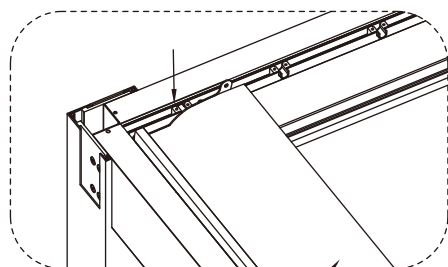
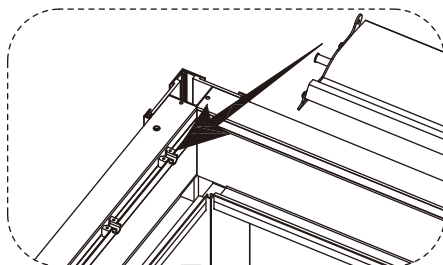
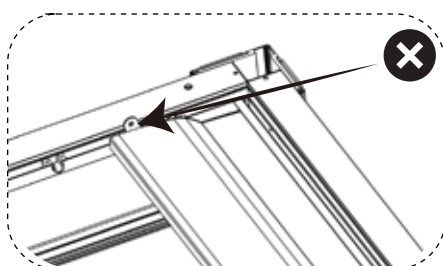
	Cover Plate 1 (Pre-installed)	×4
	Cover Plate 2 (Pre-installed)	×2
	(Pre-installed)	×12



5



Correct Louver Direction
Curve Louvers Facing Upward

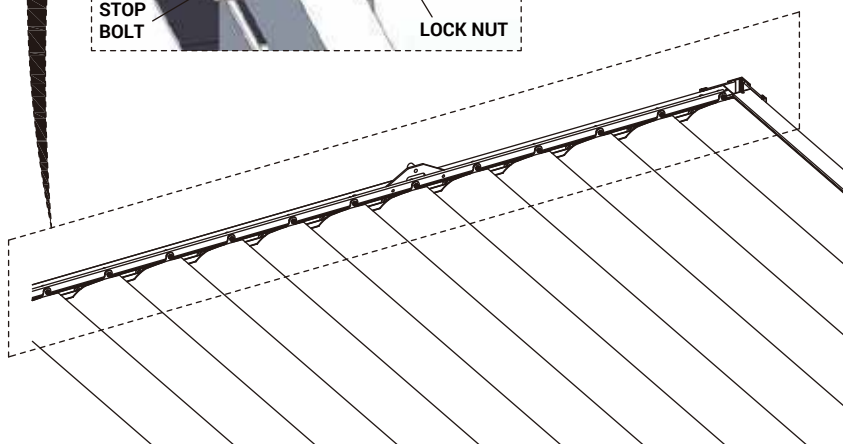
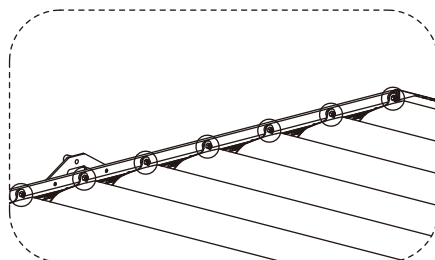
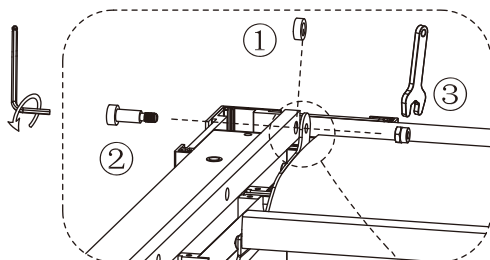


6

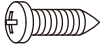
F	 x18
G	 x1
S3	 x20

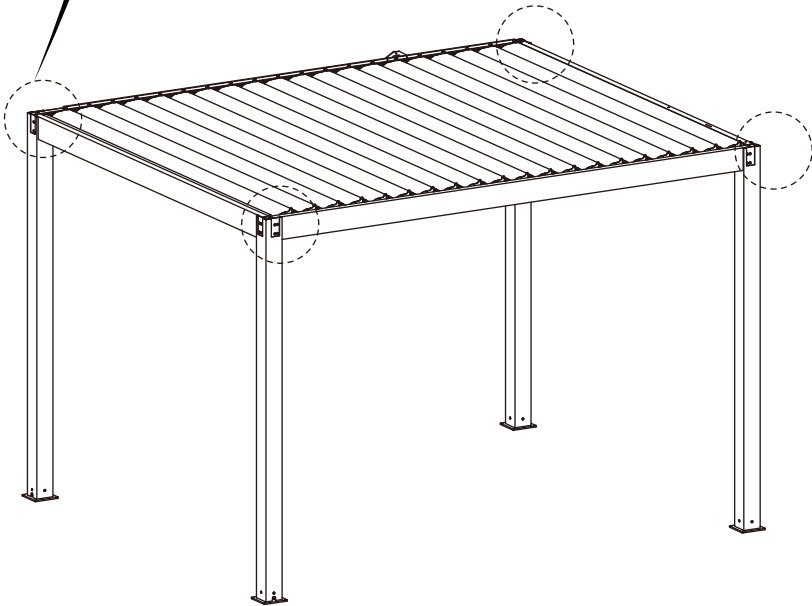
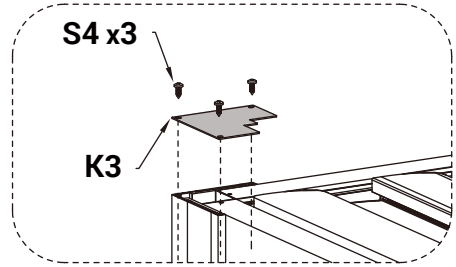
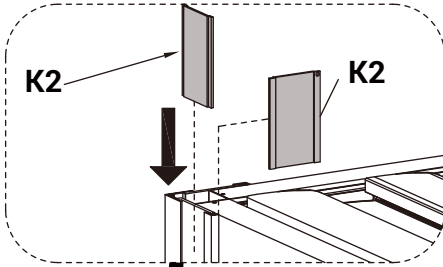
 **TIGHTEN SCREWS
BY 4# ALLEN KEY**

 **AUXILIARY FIXATION
WRENCH #10**



7

K2		x8	K3		x4	S4		x12
----	---	----	----	---	----	----	---	-----



REPEAT THE SAME STEP FOR ALL FOUR POST TOPS.

8

	Cover Plate 1 (Pre-installed)	x4
	Cover Plate 2 (Pre-installed)	x2
	(Pre-installed)	x12

REINSTALL ALL COVER PLATES

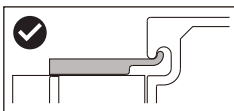
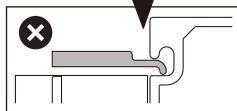
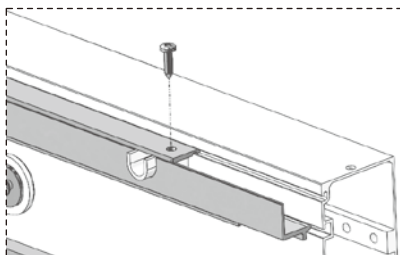
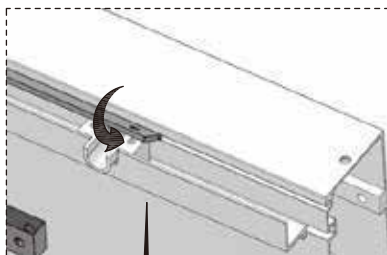
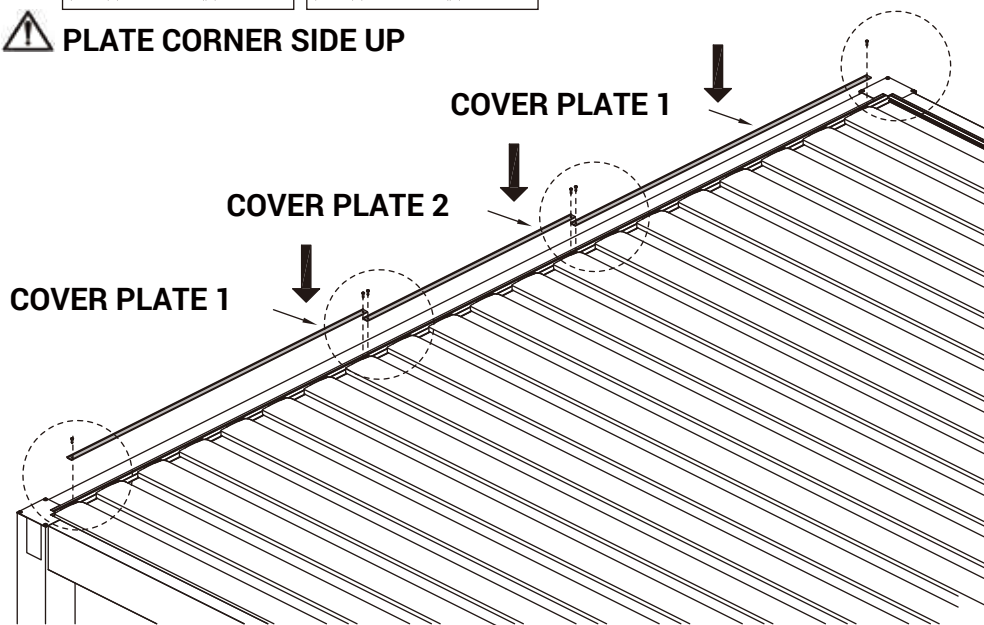
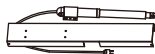
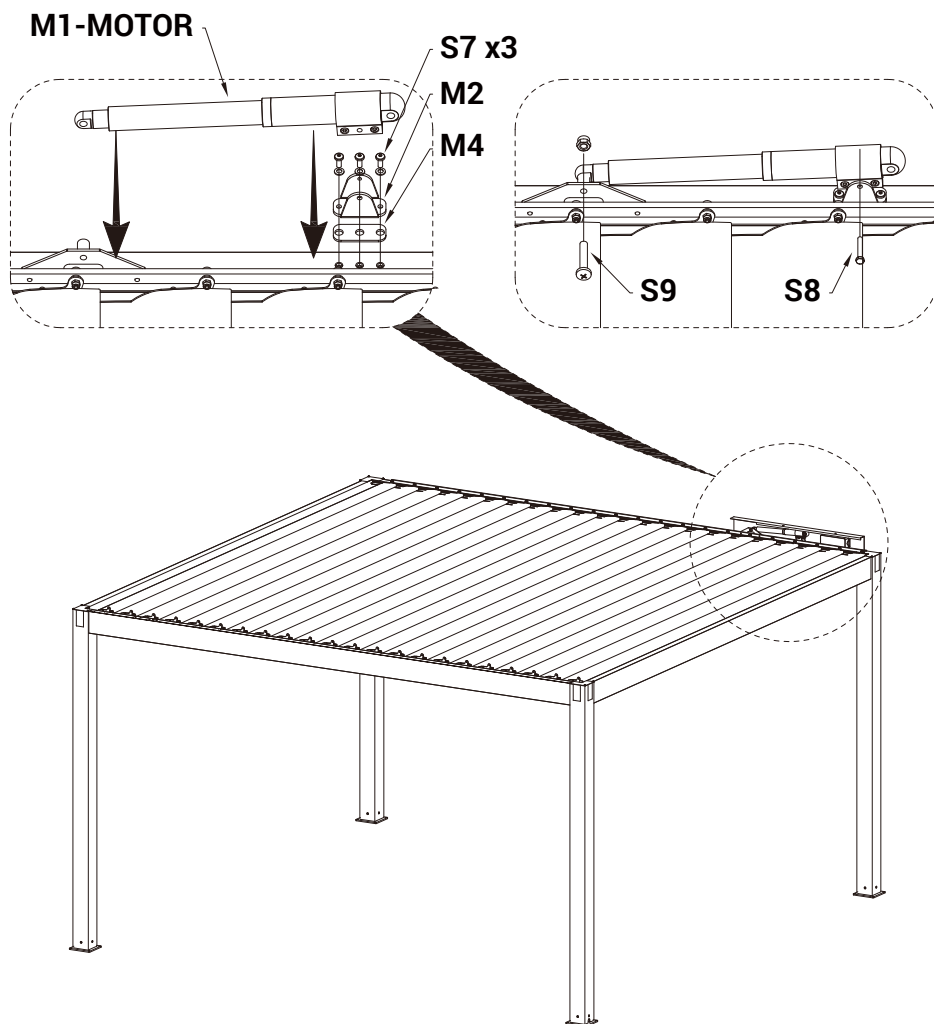


PLATE CORNER SIDE UP

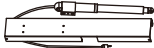


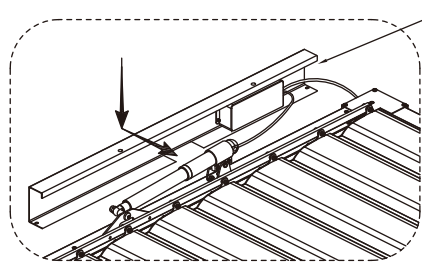
M1  x1	M2  x1	S7  x3
S8  x1	S9  x1	M4  x1



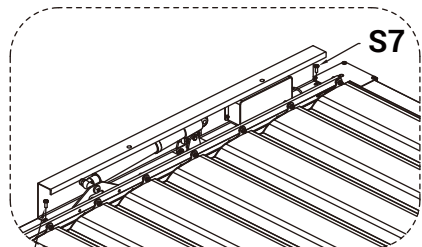
REPEAT THE SAME STEP FOR ALL FOUR POST TOPS.

9-1

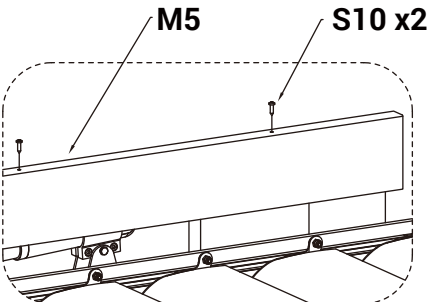
M1  x1	M3  x1	S7  x2
S10  x2	M5  x1	



M1-COVER

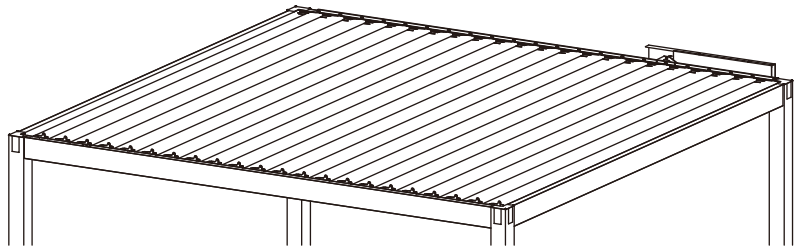


S7

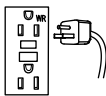


M5

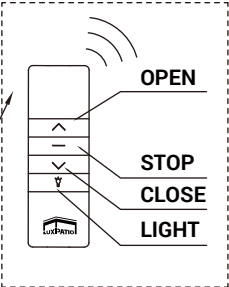
S10 x2



**POWER ON AND TEST
IF THE OPEN/ STOP/ CLOSE
BUTTONS OF THE REMOTE
CONTROL ARE WORKING NORMALLY.**

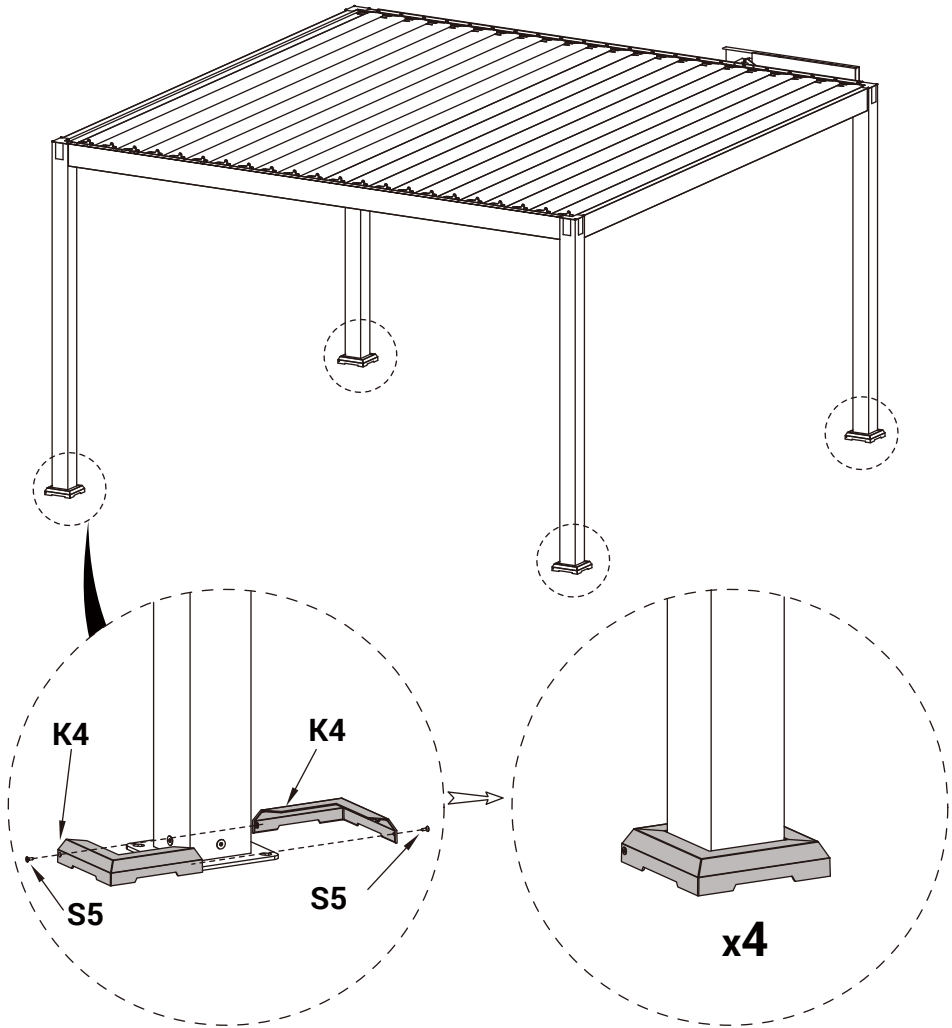


M3



10

K4		x8	S5		x8
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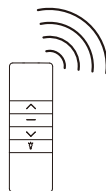
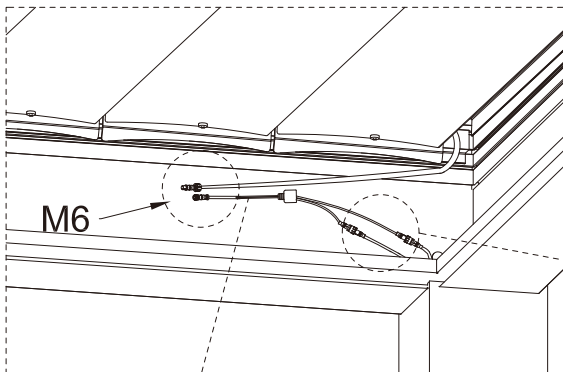


REPEAT THE SAME STEP FOR ALL FOUR POST TOPS.

M6

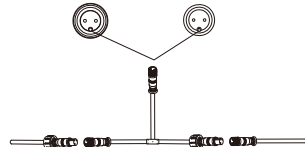


x1

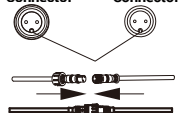


NOTE: UPON ALL CONNECTORS ARE FULLY-COUPLED, TURN ON THE POWER, PRESS THE LIGHT BOTTON ON THE REMOTE CONTROL TO TEST IF THE LIGHTING IS ON AND OFF NORMALLY.

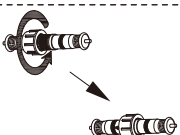
Male Connector Female Connector



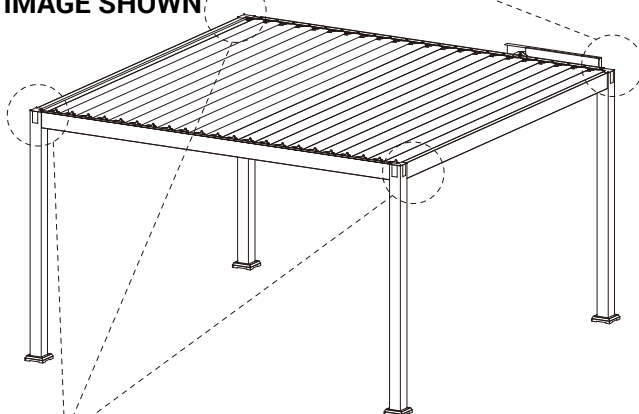
Male Connector Female Connector



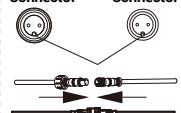
COUPLE TWO CONNECTORS AS THE LEFT IMAGE SHOWN



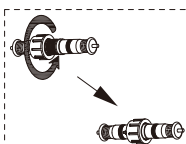
TIGHTEN UP CONNECTOR COVERS



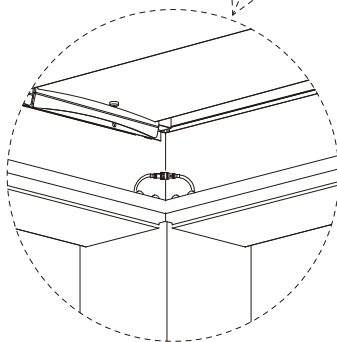
Male Connector Female Connector



COUPLE TWO CONNECTORS AS THE LEFT IMAGE SHOWN



TIGHTEN UP CONNECTOR COVERS

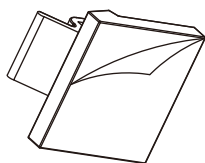
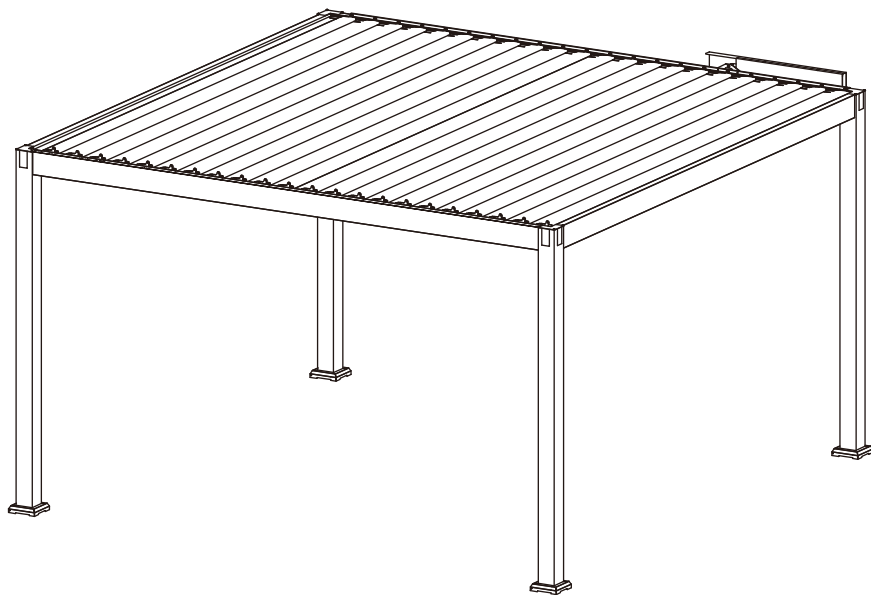


12

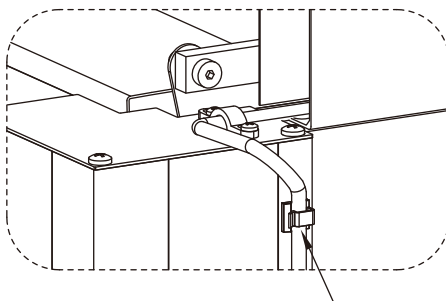
S11



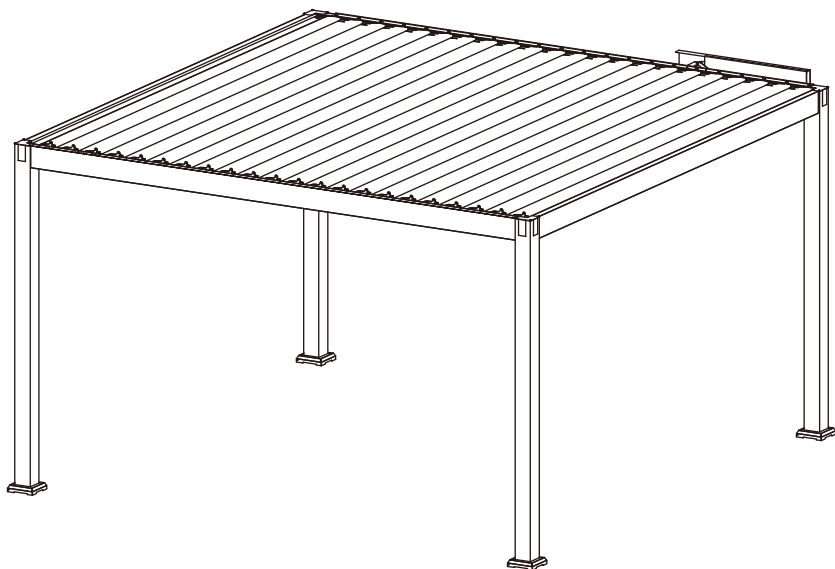
x5



Remove the back film and stick it on the post as the right image



S11

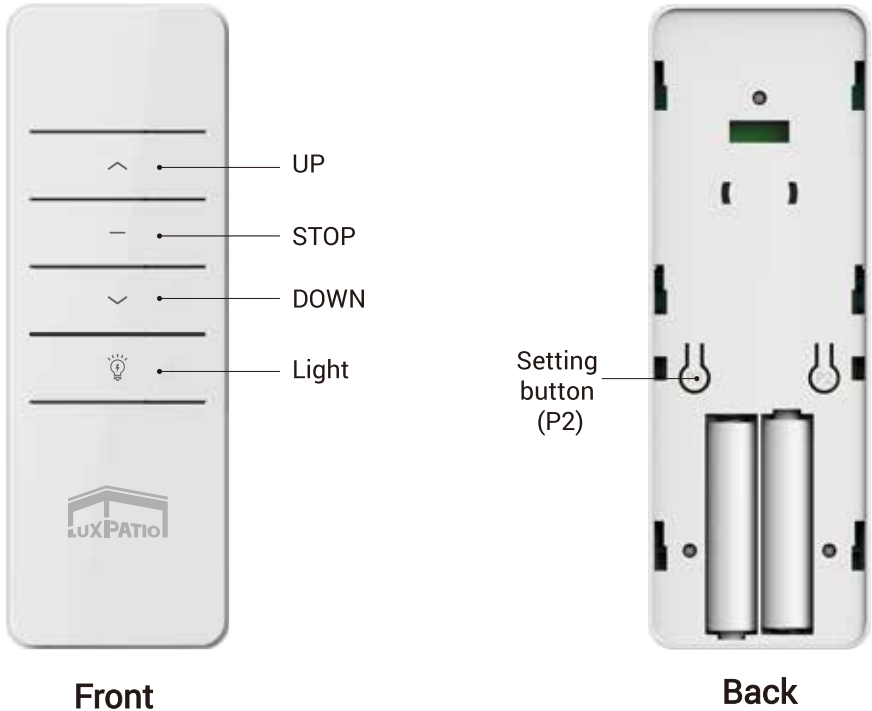


**ASSEMBLY COMPLETE
CONGRATULATIONS!**



**CHECK ALL THE FITTINGS ARE TIGHTENED SECURELY.
CHECK AND TEST THE OPERATION OF THE LOUVER MECHANISM.**

INSTRUCTION OF BUTTONS



TECHNICAL SPECIFICATION

Battery: 1.5V AAA, 2PCS, Alkaline zinc-manganese dioxide batteries

Working Temperature: -5°C~50°C

Static Current: ≤5uA

Radio Frequency: 433.05-434.79MHz

Battery Life: >2 years

Transmitting Power: 10mW

Emission Current: ≤20mA

WARNING

- ⚠ This emitter should not be exposed to moisture or be struck heavily, otherwise the emitter will be malfunctioned and its life will be affected.
- ⚠ If the emitter is not so sensitive or the radio range becomes shorter, pls check whether to change the battery.
- ⚠ If you press any button more than 10S, the emitter will stop sending radio signals.
- ⚠ It's forbidden to use different type battery to avoid any dangerous risk.
- ⚠ Please dispose of used batteries properly.

If you have any question, please send us an email to support@luxpatio.com

ADAPTER SPECIFICATION & FCC CERTIFICATION

Power Adapter: DC8513BA
Input: 100-240VAC 50/60Hz
Output: 24V DC 80W
Radio Frequency: 433.05-434.79MHz

WARNING

**To Reduce The Risk Of Fire Or Electric Shock,
Do Not Open This Power Adapter.
Repair Should Be Done By Authorized Service Personnel Only.
Caution: Disconnect Power Before Servicing.**

FCC ID: 2BPAM-20251818

Federal Communications Commission (FCC) compliance statement:

1.This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

2.Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Maximum Permissible Exposure (MPE) Requirements

[note: applied for device with distance > 20cm from the end-user]

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended.

MAINTENANCE & CARE

- ⚠ Immediately after installation, clean all LuxPatio powder-coated surfaces with a solution of warm water and a non-abrasive, pH-neutral detergent. Thoroughly rinse all surfaces to remove any residue, using a soft cloth or sponge for best results.
- ⚠ Remove construction materials (e.g., concrete, plaster, and paint splashes) promptly —before they dry—as they can damage powder-coated finishes.
- ⚠ Do not allow metal shavings or chips to fall into pools, hot tubs, or any body of water while assembling . This can cause staining.
- ⚠ Clean regularly. Frequency depends on both the appearance standard you desire and the need to remove deposits that may damage the coating over time. LuxPatio recommends cleaning every 3 to 4 months.
- ⚠ Debris can collect in gutters. Clean the Pergola gutters regularly to ensure proper rain water drainage through the Pergola system.
- ⚠ Never place items on top of the louvers.
- ⚠ During heavy winds or snowfall, open the louvers to the vertical position to prevent damage.
- ⚠ Do not operate the roof mechanism during icy or frosty conditions.
- ⚠ Conduct seasonal inspections to keep the Pergola in optimal working condition. Check that:
 - The Pergola is securely fixed to the ground.
 - The louver mechanism operates normally.
 - Electrical features (if any) are functional and safe.
- ⚠ Retain this instruction manual for future reference.

If you require service or maintenance for your LuxPatio product, please contact support@luxpatio.com

MAINTENANCE LOG

DATE	DESCRIPTION	OTHER

WARRANTY

We regret to inform you that warranty claims cannot be accepted without valid proof of purchase.

Warranties are valid from the date of delivery and apply only to the original purchaser.

To help us process your claim efficiently, please ensure that all warranty terms have been followed.

Full warranty terms are available at:
<https://www.luxpatio.com/pages/warranty>

This warranty applies only to residential use within the United States. It does not cover:

- Commercial use
- Misuse or improper handling
- Accidental damage
- Normal wear and tear

We reserve the right to repair or replace parts at our discretion rather than replacing the complete unit.

DISASSEMBLY

The serious injury and product damage could be caused by incorrect disassembly of this Pergola. For the product disassembly, it should be assigned to the qualified personnel with the full-time training on the occupational health and safety and the product knowledge.

MADE IN CHINA



WARNING: This product can expose you to chemicals including DEHP, which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/furniture.

Spaces for What Matters



www.luxpatio.com | Email: support@luxpatio.com