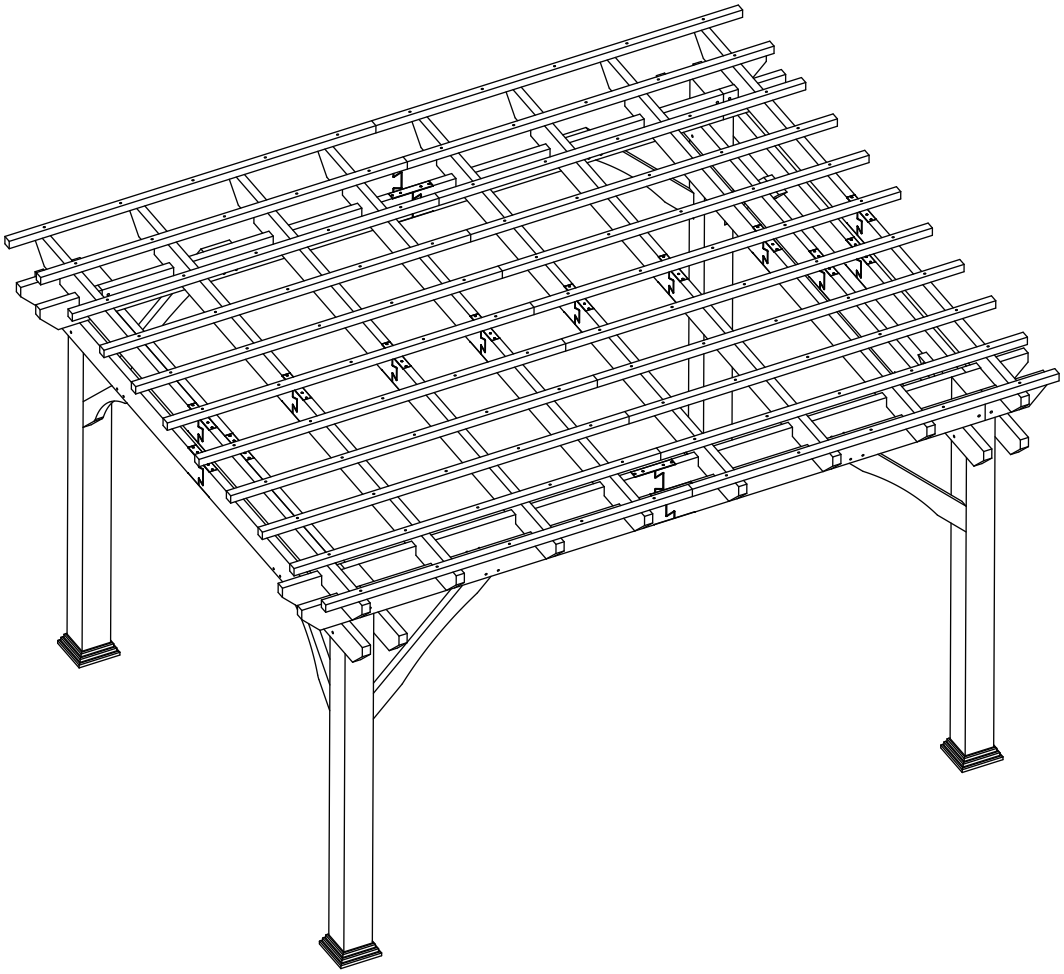
ASSEMBLY MANUAL
WOOD PERGOLA 12' X 10'

KEEP THIS MANUAL FOR FUTURE REFERENCE



IMPORTANT !

READ INSTRUCTIONS THOROUGHLY PRIOR TO BEGINNING ASSEMBLY.

- **SURFACE PREPARATION**

To ensure proper assembly you must build your pergola on a level surface.

- **CHECK ALL PARTS**

Inventory all parts listed on Part Identification page inside this manual.

Contact our Customer Service Team if any parts are missing or damaged.

- **ADDITIONAL TOOL**

You will need additional tools to complete your wood pergola.

See inside this manual for recommended and optional materials and quantities.

IMPORTANT SAFETY INFORMATION

IT IS VERY IMPORTANT TO READ AND FOLLOW THE SAFETY PRECAUTIONS BEFORE ASSEMBLY AND DURING THE USE OF THE PRODUCT.

1. The outdoor pergola is designed primarily to extend the outdoor use of your home.

DO NOT USE STRUCTURE AS FOLLOW:

- As safety barrier to prevent unsupervised access to pools, hot tubs, spas or ponds.
- As load bearing support for other structures, buildings or heavy objects.

If you wish to suspend products to the structure, ensure that the total weight of articles does not exceed 330 pounds.

2. Wood is not flame retardant and has the potential of burning. Do not place any type of heat source on/under the structure or within 5 ft of the unit including, but not limited to, a barbecue, chiminea or fire pits. Consult the user's manual of these items for safe distances from combustible materials.
3. This structure is a four-season product.
4. Always install the product on a solid level surface or platform. There is no fixed device offered between bases with ground, and you can fix it by your own ways.
5. Keep all children and pets away from assembly area.
6. Do not assemble the product in days of wind or rain.
7. Wear gloves to avoid injury from possible sharp edges of individual elements before assembly.
8. During installation, follow all safety warnings provided with your tools and use safety glasses.
9. 2-4 people is recommended to install safely.
10. To avoid damages to the product its parts and surroundings, use the proper tools. The use of a ladder(s) is recommended.

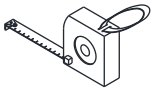
GENERAL INFORMATION

Wood components are manufactured with Pine Wood which is protected with factory applied water-based stain. As your pergola acclimates to its new environment, natural characteristics of the wood can show in the form of checks (cracks) and weathering in the lumber. This is normal and it will not affect the structural integrity of your structure and is not covered under warranty.

Annual application of water-based water-repellent sealant or stain is important and will help reduce weathering and checks.

ASSEMBLY GUIDES

TOOLS RECOMMENDED


Tape Measure


Carpenters Level

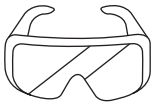

Drill / Driver


Wrench


Socket


8'Step Ladder


Safety Gloves


Safety Glasses


Hard Hat


Ratchet

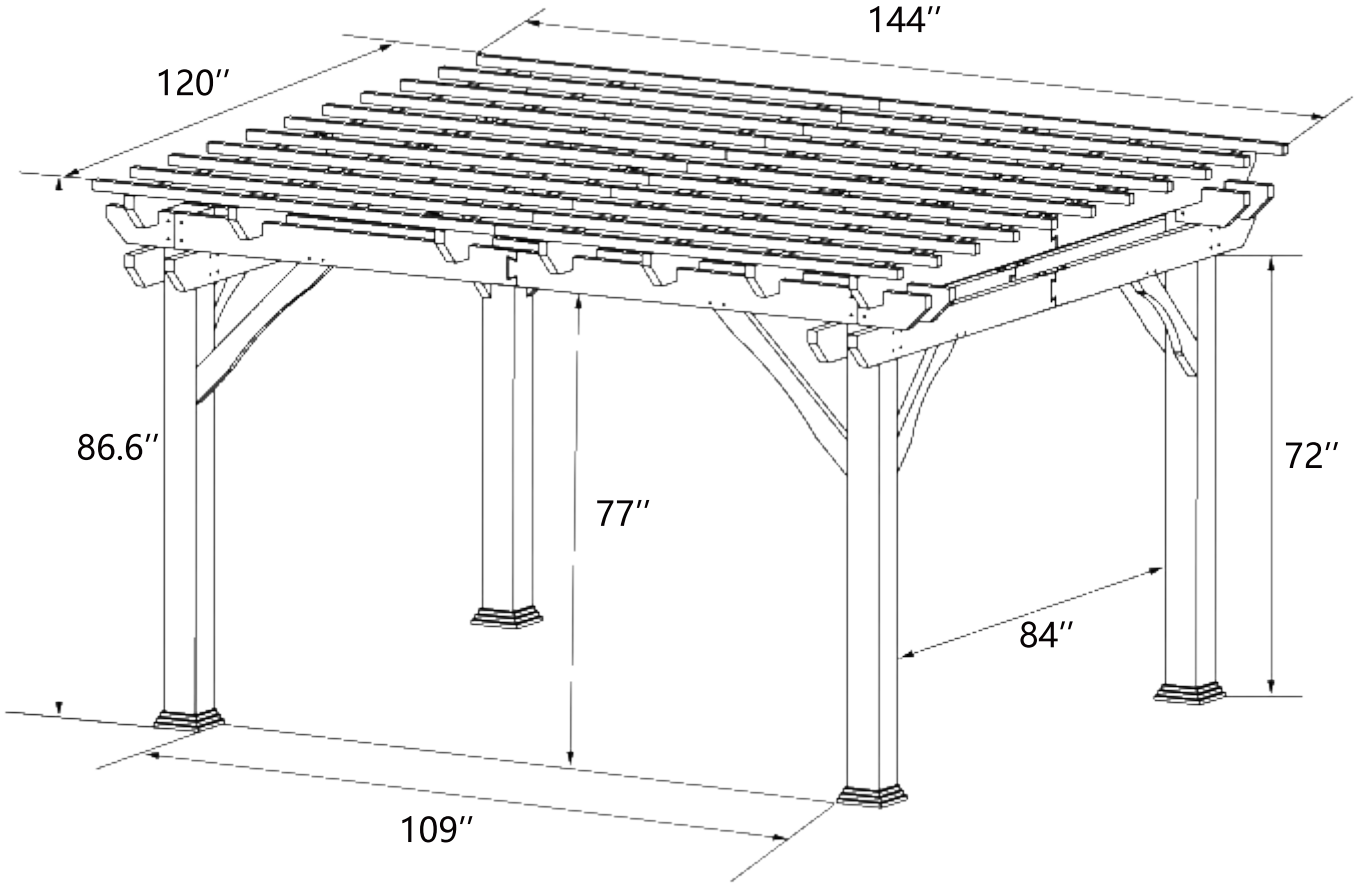

Tool Belt

PROPER MAINTENANCE

- Inspect and tighten all hardware after completion of assembly, after first month of use, and then annually. Do not over-tighten as to cause crushing and splintering of wood.
- Check for sharp edges or protruding screw threads, add washers if required.
- Applying a water repellent or stain (water-based) on a yearly basis is important maintenance to maintain maximum life and performance of the product.
- Check all wood members for deterioration, structural damage and splintering. Sand down splinters and replace deteriorated wood members. As with all wood, some checking and small cracks in grain is normal.

12’ X 10’ WOOD PERDOLA SPECIFICATIONS

Box A	7.9"H x 11.8"W x 74.4"L	N.W. 35.6 lbs	G.W. 44.5 lbs
Box B	10.6"H x 11.4"W x 79.9"L	N.W. 117.3 lbs	G.W. 125.7 lbs
Box C	6.7"H x 11"W x 74.8"L	N.W. 55.3 lbs	G.W. 59.7 lbs
Box D	8.7"H x 13.8"W x 63"L	N.W. 66.8 lbs	G.W. 76.1 lbs
Box E	8.7"H x 13.8"W x 63"L	N.W. 66.8 lbs	G.W. 76.1 lbs



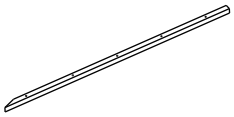
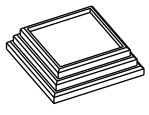
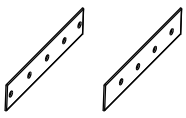
TOTAL HEIGHT : 86.6"

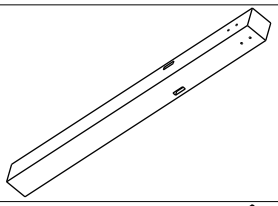
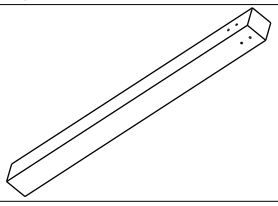
TOP SIZE: 120" x 144"

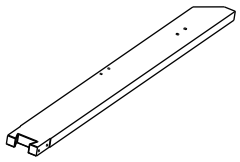
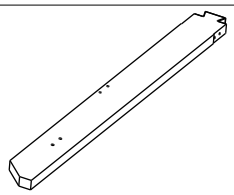
HEIGHT OF SHORT BEAM : 72"

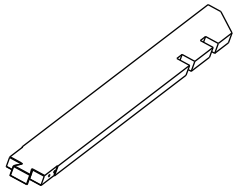
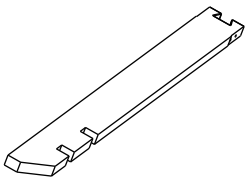
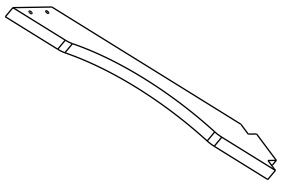
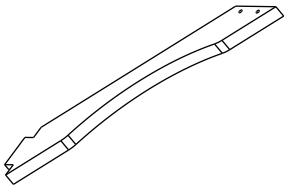
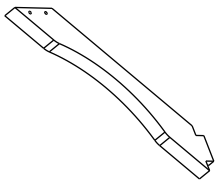
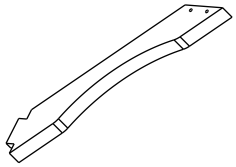
POST TO POST : 84"/109"

Parts List

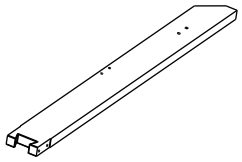
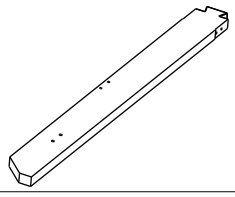
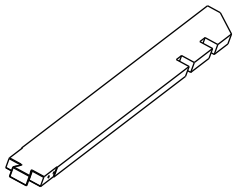
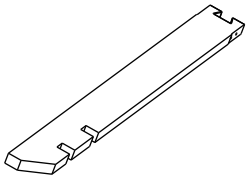
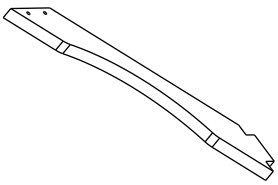
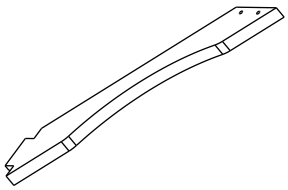
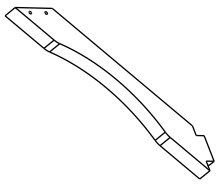
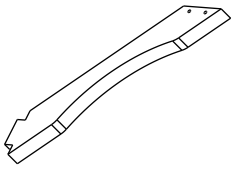
Box A			
STAMP ID	QTY	DESCRIPTION	IMAGE
1	11PCS	TAPPING SCREW (M3.5*25)	
2	224PCS	TAPPING SCREW (M3.5*40)	
3	8PCS	TAPPING SCREW (M5*100)	
4	16PCS	BOLT (M10*200)	
	16PCS	NUT (M10)	
	32PCS	FLAT MAT (M10)	
5	16PCS	BOLT (M6*70)	
	16PCS	NUT (M6)	
	32PCS	FLAT MAT (M6)	
I	22PCS	RAFTER COMPONENT	
H	4PCS	BASE PAD	
G	32PCS	IRON SHEET (4-HOLE*24PC,5-HOLE*8PC)	

Box B			
STAMP ID	QTY	DESCRIPTION	IMAGE
A1	2PCS	POST	
A2	2PCS	POST	

Box C			
STAMP ID	QTY	DESCRIPTION	IMAGE
C1	4PCS	LONG BEAM RH	
C2	4PCS	LONG BEAM LH	

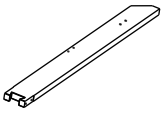
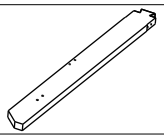
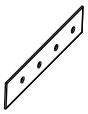
Box D			
STAMP ID	QTY	DESCRIPTION	IMAGE
D1	6PCS	PURLIN RH	
D2	6PCS	PURLIN RH	
E1	1PC	LONG CORBEL	
E2	1PC	LONG CORBEL	
F1	1PC	SHORT CORBEL	
F2	1PC	SHORT CORBEL	

Box E

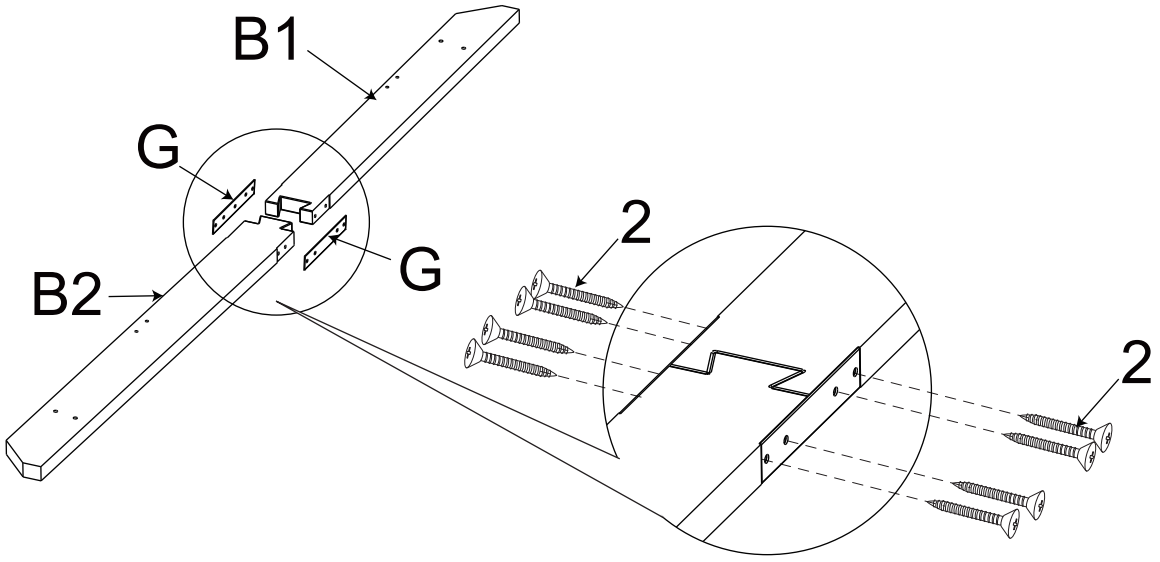
STAMP ID	QTY	DESCRIPTION	IMAGE
B1	4PCS	SHORT BEAM RH	
B2	4PCS	SHORT BEAM LH	
D1	2PCS	PURLIN RH	
D2	2PCS	PURLIN LH	
E1	1PC	LONG CORBEL	
E2	1PC	LONG CORBEL	
F1	1PC	SHORT CORBEL	
F2	1PC	SHORT CORBEL	

ASSEMBLY GUIDES

STEP 1: SHORT BEAM ASSEMBLY

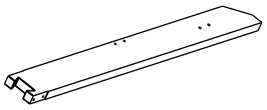
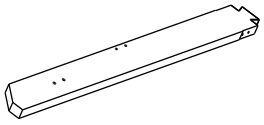
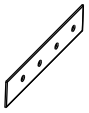
STAMP ID	QTY REQ	IMAGE
B1	4PCS	
B2	4PCS	
G (4-hole)	8PCS	
2	32PCS	

- Align part B1 and B2, pad one piece of iron sheet G(4-hole) on each side, and then rotate four screws (no.2) into each side with an electric drill. Repeat this operation four times to make up four short beams B. (fig. 1.1)

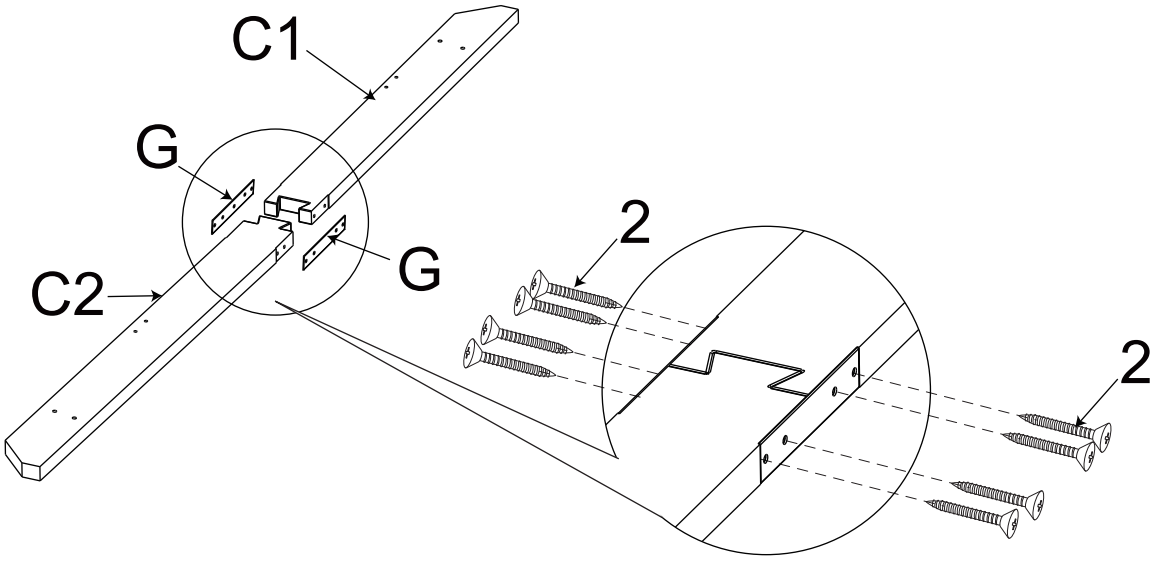


(fig. 1.1)

STEP 2: LONG BEAM ASSEMBLY

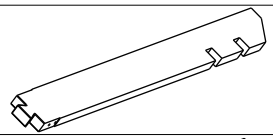
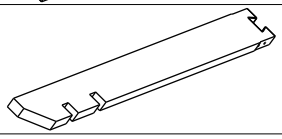
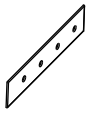
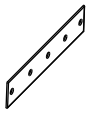
STAMP ID	QTY REQ	IMAGE
C1	4PCS	
C2	4PCS	
G (4-hole)	8PCS	
2	32PCS	

- Align part C1 and C2, pad one piece of iron sheet G(4-hole) on each side, and then rotate four screws (no.2) into each side with an electric drill. Repeat this operation four times to make up four long beams C. (fig. 2.1)

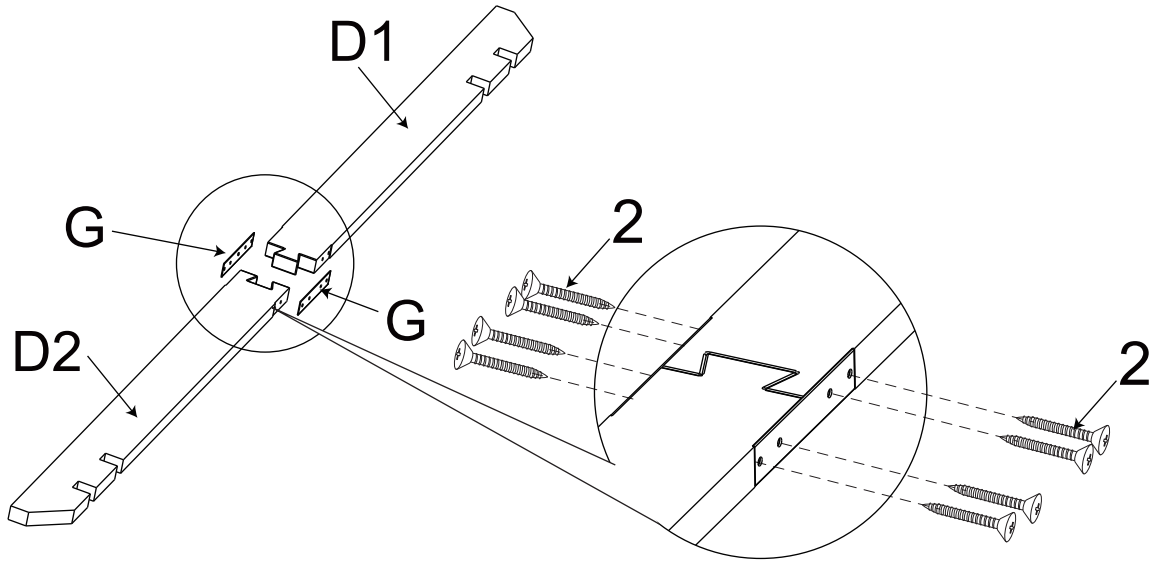


(fig. 2.1)

STEP 3: PURLIN ASSEMBLY

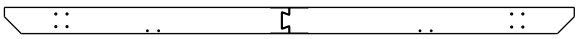
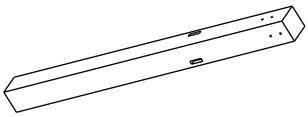
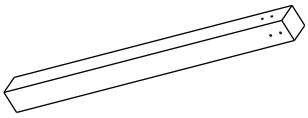
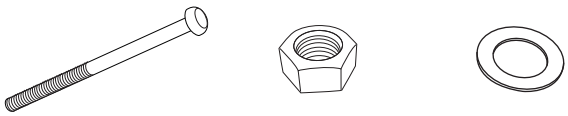
STAMP ID	QTY REQ	IMAGE
D1	8PCS	
D2	8PCS	
G (4-hole)	8PCS	
G (5-hole)	8PCS	
2	64PCS	

- Align part D1 and D2, pad one piece of iron sheet G(5-hole) on upper side and one piece of iron sheet G(4-hole) on lower side, and then rotate all four screws (no.2) into each side with an electric drill. The middle hole in 5-hole iron sheet needs to be vacated and available for the last step. Repeat this operation eight times to make up eight purlins D. (fig. 3.1)

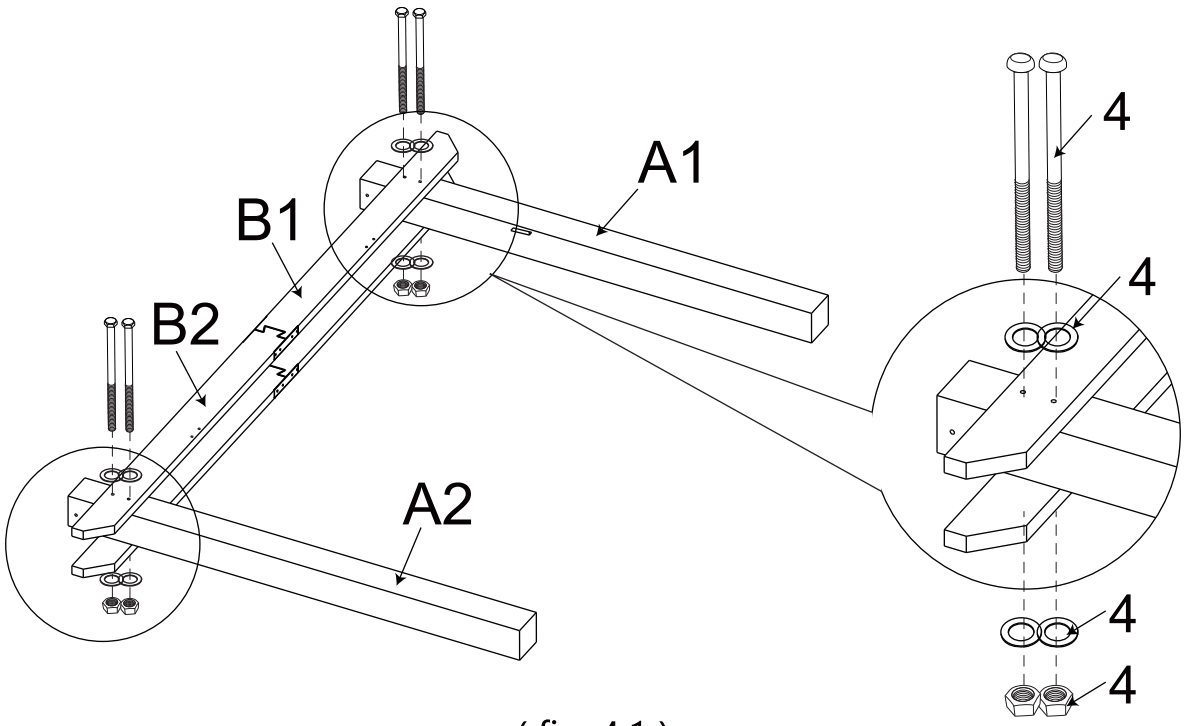


(fig. 3.1)

STEP 4: POST ASSEMBLY

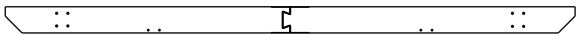
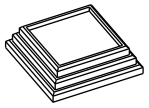
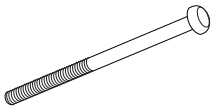
STAMP ID	QTY REQ	IMAGE
B (B1+B2)	4PCS	
A1	2PCS	
A2	2PCS	
4	8PCS	

- Clamp post A1 and A2 with two assembled short beams B on both sides, and rotate two sets of bolts and nuts (no.4) through each end of short beam. B1 is connected to A1,while B2 is connected to A2. Repeat this step to make up another post frame. (fig. 4.1)

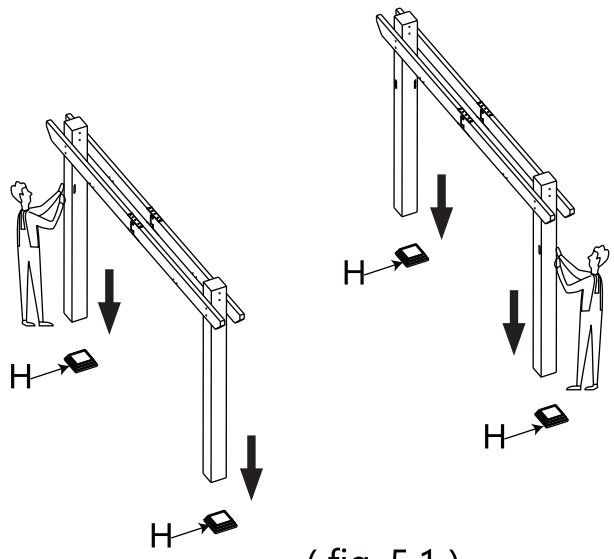


(fig. 4.1)

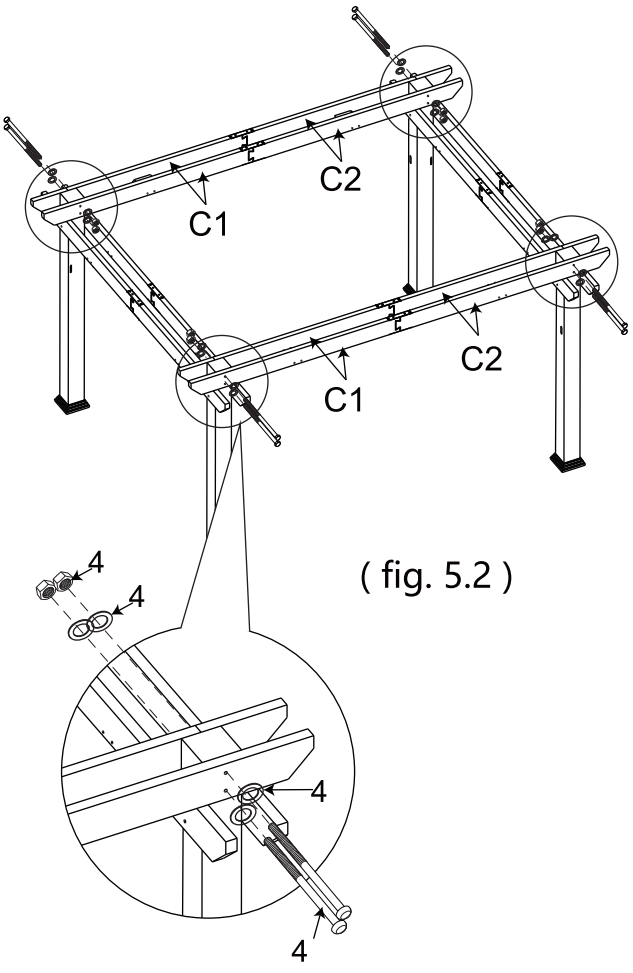
STEP 5: BASIC FRAME ASSEMBLY

STAMP ID	QTY REQ	IMAGE
C (C1+C2)	4PCS	
H	4PCS	
4	8PCS	

- Find a solid level surface or platform, and then stand two assembled post frames up on four base pads H. (fig. 5.1)
- Lay two assembled long beams C across post frames on each side, and rotate two sets of bolts and nuts (no.4) through each joint. There are all four joints need to link. (fig. 5.2)



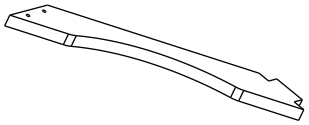
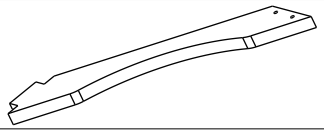
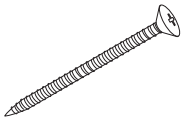
(fig. 5.1)



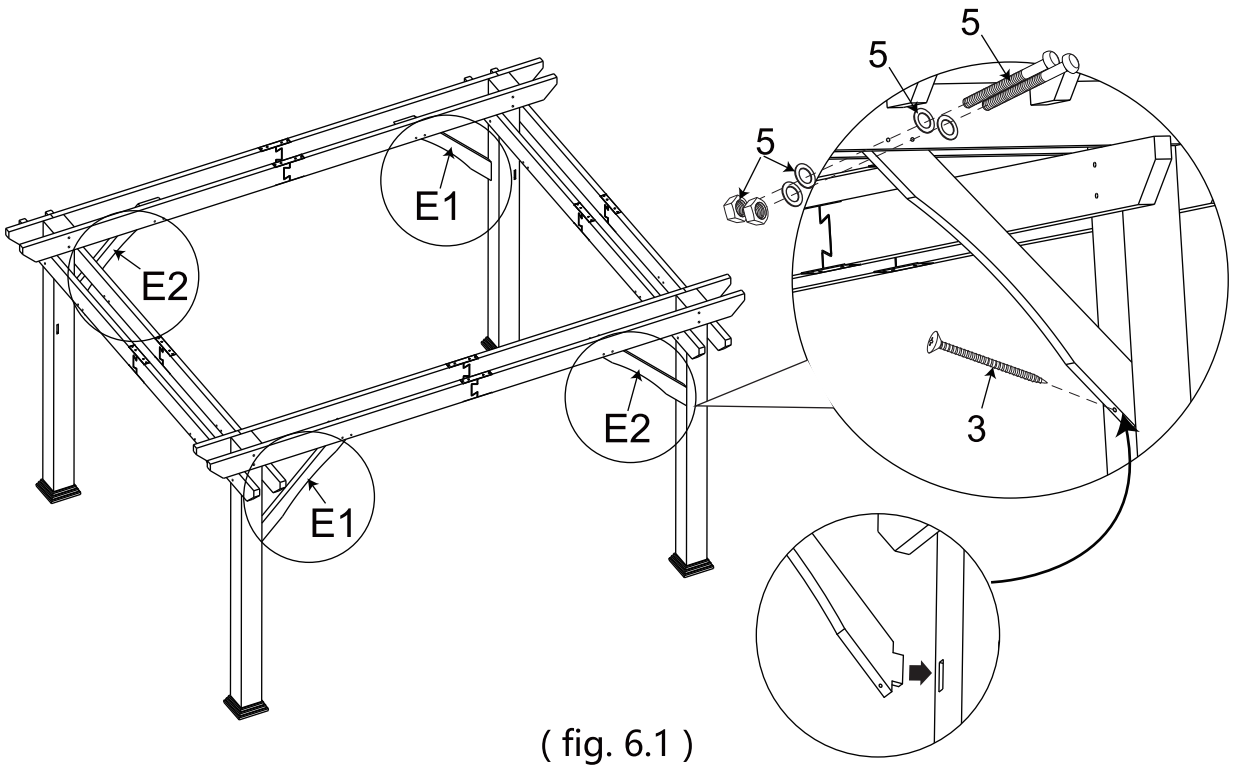
(fig. 5.2)

Note: The beams B and C with more holes need to be placed outside, to facilitate corbel assembly in steps 6 and 7.

STEP 6: LONG CORBEL ASSEMBLY

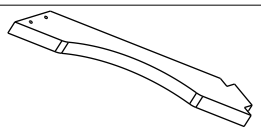
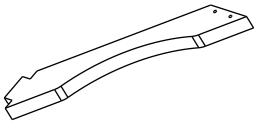
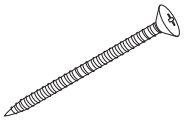
STAMP ID	QTY REQ	IMAGE
E1	2PCS	
E2	2PCS	
3	4PCS	
5	8PCS	

- Use long corbels E1, E2 to fix long beams C with posts A on the front and rear sides of the frame. One tapping screw (no.3) and two sets of bolts and nuts (no.5) are required to rotate through wood at each joint. There are four joints need to fix. (fig. 6.1)

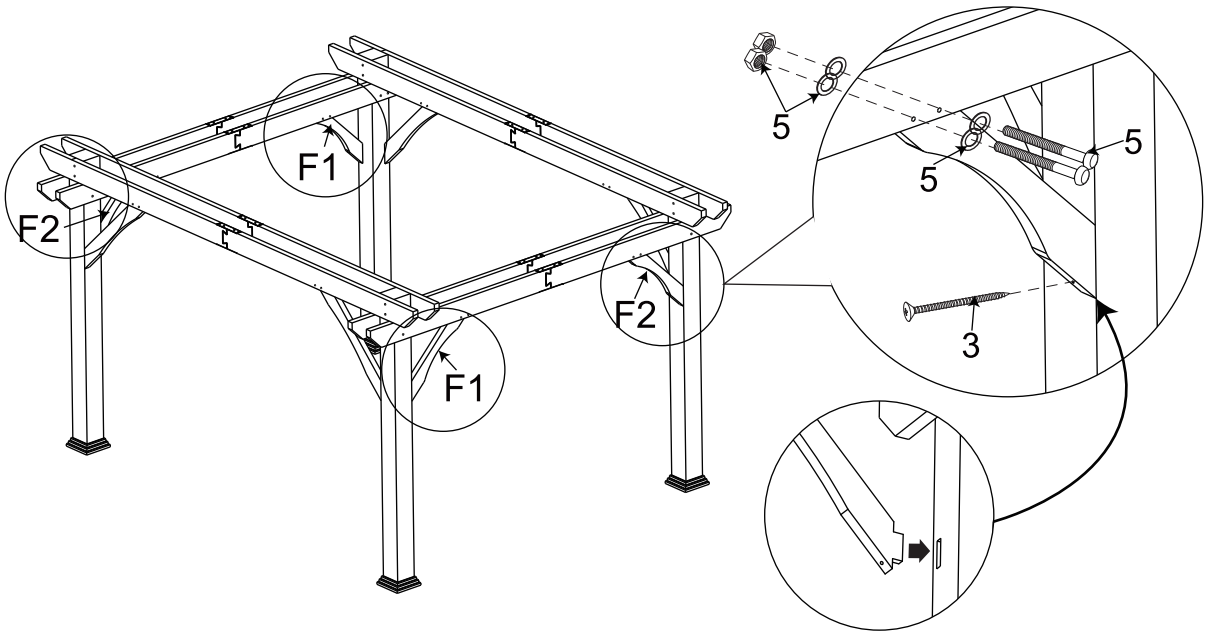


(fig. 6.1)

STEP 7: SHORT CORBEL ASSEMBLY

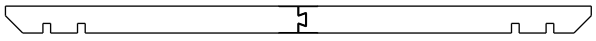
STAMP ID	QTY REQ	IMAGE
F1	2PCS	
F2	2PCS	
3	4PCS	
5	8PCS	

- Use short corbels F1, F2 to fix short beams B with posts A on the left and right sides of the frame. One tapping screw (no.3) and two sets of bolts and nuts (no.5) are required to rotate through wood at each joint. There are also four joints need to fix. (fig. 7.1)

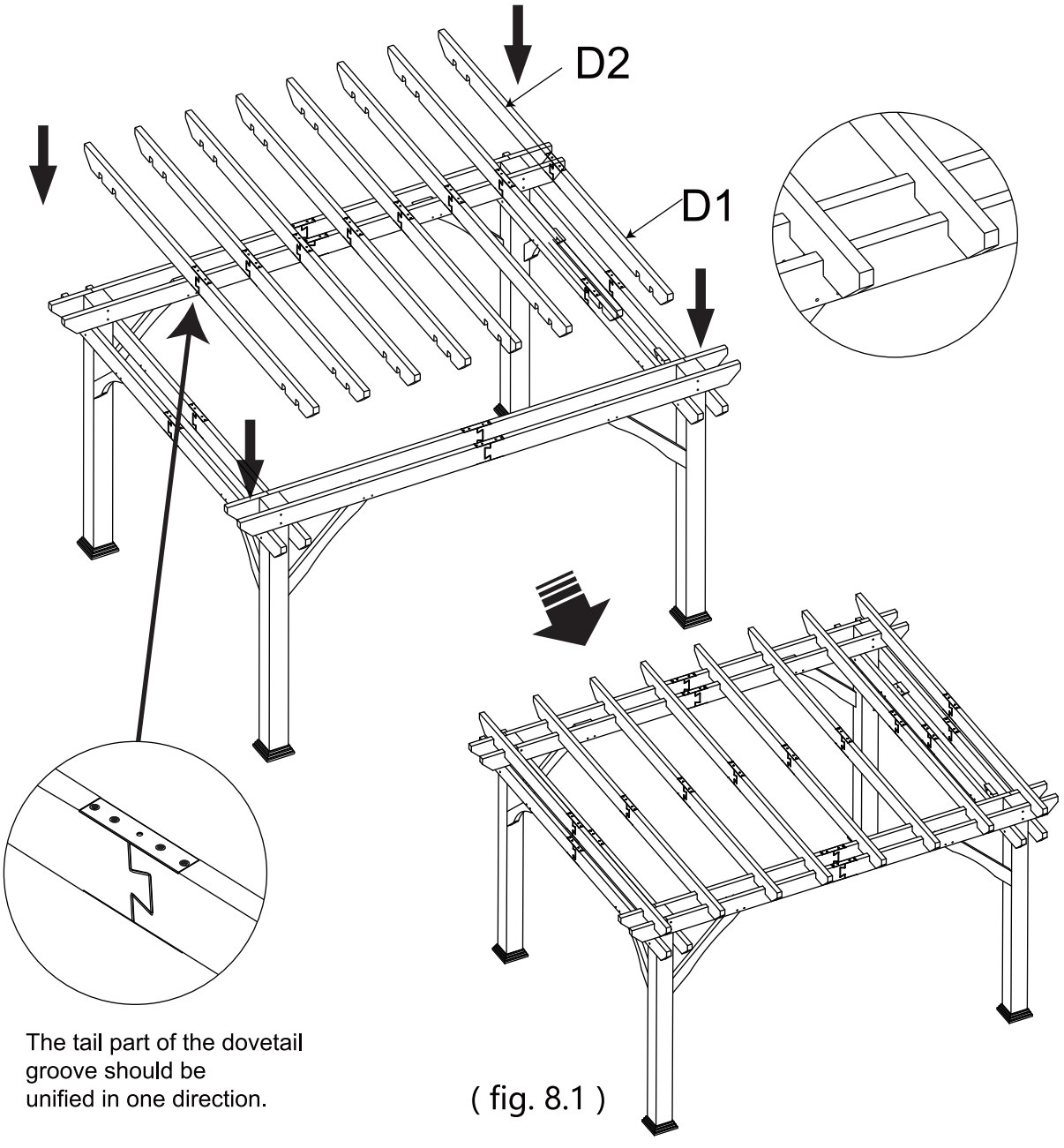


(fig. 7.1)

STEP 8: PURLIN PLACEMENT

STAMP ID	QTY REQ	IMAGE
D (D1+D2)	8PCS	

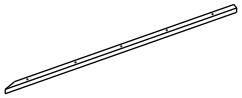
- Lay eight purlins D side by side on the long beams C, paralleled to short beam B. Please note that the tail part of dovetail groove should be unified in the same direction. The grooves at the joints can be fixed. Note: The space between purlins will be determined by rafter placement in the next step. (fig. 8.1)



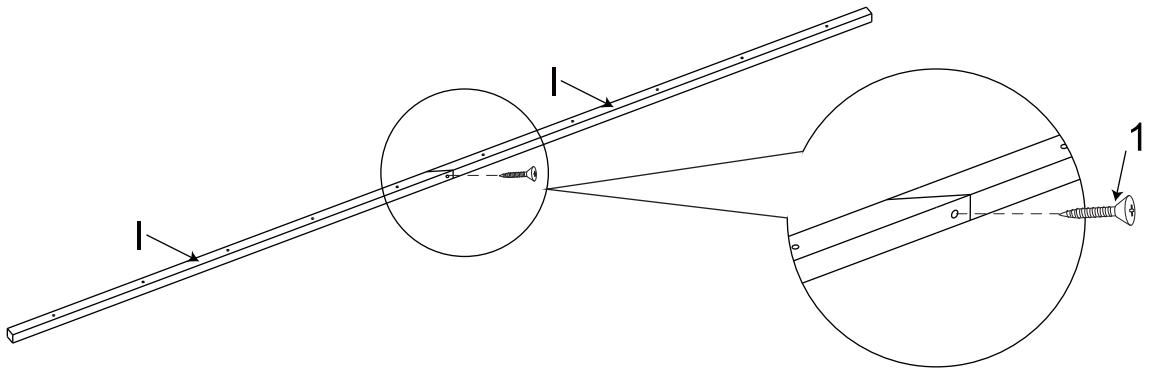
The tail part of the dovetail groove should be unified in one direction.

(fig. 8.1)

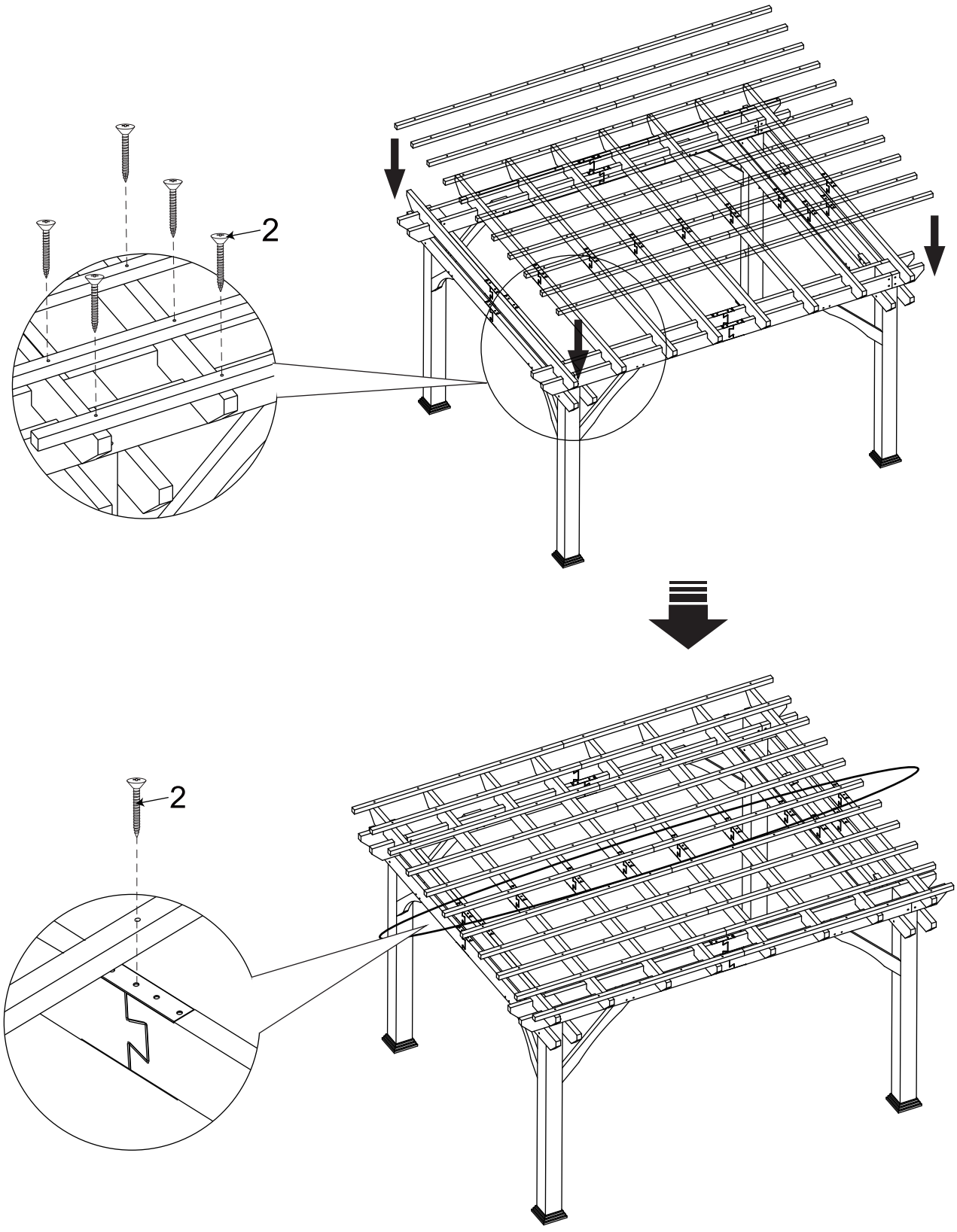
STEP 9: RAFTER PLACEMENT

STAMP ID	QTY REQ	IMAGE
I	22PCS	
1	11PCS	
2	88PCS	

- Align and link two rafter components I, and then rotate one screw (no.1) into the joint with an electric drill. Repeat this operation eleven times to make up eleven rafters. (fig. 9.1)
- Lay eleven rafters side by side on the purlins D, perpendicular to short beams B and paralleled to long beams C. Fix every joint of D and I by one tapping screw (no.2). Note: Fix rafters I from both sides of purlins D to the middle parts, and there are hole grooves for screws' specific spotting.



(fig. 9.1)



(fig. 9.2)

About Our Wood

Wood Pergola uses 100% Pine Wood. Although we take great care in selecting the best quality lumber available, wood is still a product of nature and susceptible to weathering which can change the appearance of your set.

Instructions for Proper Maintenance

What causes weathering? Does it affect the strength of my product?

One of the main reasons for weathering is the effects of water (moisture); the moisture content of the wood at the surface is different than the interior of the wood. As the climate changes, moisture moves in or out of the wood, causing tension which can result in checking and or warping. You can expect the following due to weathering.These changes will not affect the strength ofthe product:

1. Checking is surface cracks in the wood along the grain. A post (4" x 4") will experience more checking than a board(1" x 4") because the surface and interior moisture content will vary more widely than in thinner wood.
2. Warping results from any distortion (twisting, cupping) from the original plane of the board and often happens from rapid wettingand drying of the wood.
3. Fading happens as a natural change in the wood color as it is exposed to sun-light andwill turn grey over time.

How can I reduce the amount of weathering to wood product?

1. Your wood product is coated with a water-based stain. Sunlight will break down the coating, so we recommend applying a water repellent or stain on a yearly basis (see your local stain and paint supplier for a recommended product). You must apply some type of protection (sealant) to the wood of your product. Please note this is a requirement of your waranty. Most weathering is just the normal result of nature and will not affect safety. However if you are concerned that a part has experienced a severe weathering problem please call our customer service department for further assistance.
2. Inspect wood parts monthly. The grain of the wood sometimes will lift in the dry season causing splinters to appear. Light sanding may be neces sary to maintain a safe environment. Treating your Product with protection (sealant) after sanding will help prevent severe checking/ splitting and other weather damage.

Call Us First!
DO NOT RETURN BACK.
For immediate help with assembly or product information
contact our after-sale service or email:
union6662016@hotmail.com
Our staff is ready to provide assistance.
We will reply and offer help in 24 hours.