

Instruction Manual

InsideOut Fresco 12X12
Complete Pergola Room Kit



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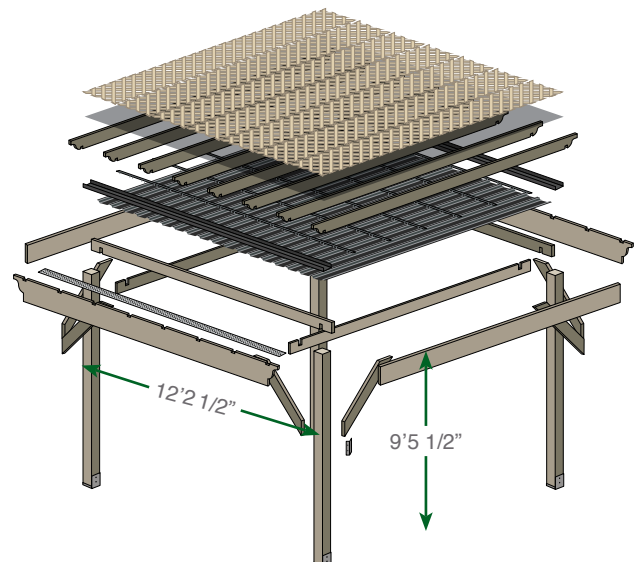


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Important Safety Notice

- Fresco components are intended for privacy, decorative and ornamental use only.

Product is NOT INTENDED for the following:

- A safety barrier to prevent unsupervised access to pools, hot tubs, spas, or ponds.
 - Safety railings for elevated platforms or decks.
 - As load bearing support for a building, structure, heavy objects or swings. - Used in structures that trap wind, rain or snow that would create extra load on the product.
- **Permanent structures may require a building permit.** As the purchaser and or installer of this product you are advised to consult local planning, zoning, and building inspection departments for guidance on applicable building codes and or zoning requirements.
 - **Wood is NOT flame retardant and will burn.** Grills, fire pits and chimneys are a fire hazard if placed too close to a Fresco structure. Consult user's manual of the grill, fire pit or chimney for safe distances from combustible materials.
 - **During installation, follow all safety warnings provided with your tools and use OSHA approved safety glasses.**
 - **Fresco structures will require two or more people to install safely. Check for underground utilities before digging or driving stakes into the ground!**

General Information: Wood components are manufactured with Southern Yellow Pine which is protected with factory applied water-based stain. Knots, small checks (cracks) and weathering are naturally occurring and do not affect the strength of the product. Annual application of a water-based water repellent sealant or stain will help reduce weathering and checks.

Additional Information

Tools Required

- | | | | |
|-----------------------------------------------------|-------------------------------------------------|-----------------------------------------|------------------------------------|
| <input type="checkbox"/> Tape Measure | <input type="checkbox"/> 1/4" Hex Drive Bit | <input type="checkbox"/> 6' Step Ladder | <input type="checkbox"/> Tin Snips |
| <input type="checkbox"/> Carpenters Level | <input type="checkbox"/> Adjustable Wrench | <input type="checkbox"/> Hammer | |
| <input type="checkbox"/> Standard or Cordless Drill | <input type="checkbox"/> 5/8" Masonry Drill Bit | <input type="checkbox"/> Staple Gun | |
| <input type="checkbox"/> Phillips Bit | <input type="checkbox"/> Hammer Drill | <input type="checkbox"/> Speed Square | |

Keys To Assemble Success

This identifies information that requires special attention. Improper assembly could lead to an unsafe or dangerous condition.



Use
Help



Use
Help



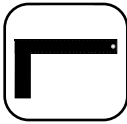
Where this is shown, 2 or 3 people are required to safely complete the step. To avoid injury or damage to the assembly make sure to get help!

Measure
Distance



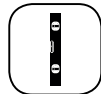
Check that assembly is square before tightening bolts.

Square
Assembly

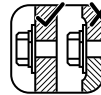


Check that set or assembly is properly level before proceeding.

Use Level



Tighten Bolts



This indicates time to tighten bolts, but not too tight! Do not crush the wood. This may create splinters and cause structural damage.

Time

For a seasoned contractor installation will take 6-8 hours.

Material List

A



(2) 2 x 6 x 146 3/8" Inside Support Rail A (DWG #2)

B



(2) 2 x 6 x 132 3/8" Inside Support Rail B (DWG #3)

C



(1) 2 x 12 x 164 3/8" Outside Joist Detailed HS (DWG #6)

D



(1) 2 x 12 x 164 3/8" Outside Joist Detailed (DWG #5)

E



(4) 2 x 10 x 149 3/8" Support Joist (DWG #7)

F



(2) 2 x 10 x 146 3/8" Inside Joist Plain (DWG #4)

G



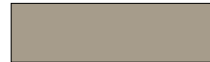
(8) 2 x 8 x 164 1/2" Detailed Rafter #1 (DWG #8)

H



(14) 2 x 2 x 144 3/8" Lattice Support (DWG #20)

J



(7) 2 x 6 x 19 5/8" Center Support (DWG #9)

K



(4) 6 x 6 x 103" Post (DWG #23)

M



(8) 4 x 6" Knee Brace (DWG #17)

K2



(16) 1-1/4 x 6" Knee Brace Spacer
(DWG ITEM #12)

Material List

B1 

(16) 3/8 – 2-1/2" Lag Screw
(DWG ITEM #24)

B2 

(16) 1/2 - 13 x 4" Carriage Bolt
(DWG ITEM #27)

B3 

(8) 1/2 - 13 x 10" Carriage Bolt
(DWG ITEM #28)

B4 

(24) 1/2 -13 x 12" Carriage Bolt
(DWG ITEM #29)

B5 

(4) 5/8 – 8" Anchor Bolt
(DWG ITEM #N/A)

B6 

(1lb. box) No. 10d Construction Nails
(DWG ITEM #N/A)

B8 

1-1/2" Joist Hanger Nail
(DWG ITEM #15)

B7 

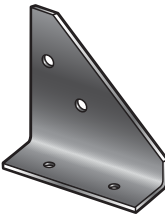
(50) 1-1/2" Barn Screw
(DWG ITEM #N/A)

N1 

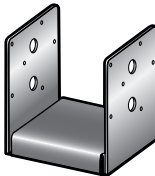
(48) 1/2-13 Carriage Nut
(DWG ITEM #25)

W1 

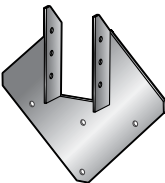
1/2" Carriage Bolt Washer

K1 

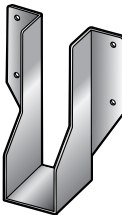
(8) 4 x 6 Knee Brace Bracket
(DWG ITEM #19)

K3 

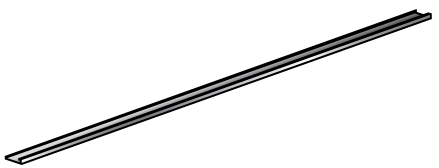
(4) Post Mount Bracket – ABE66
(DWG #22)

K4 

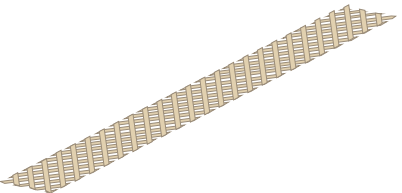
(12) Hurricane Bracket – H1
(DWG #27)

K5 

(4) Joist Hanger Bracket – LUS26
(DWG #28)

T1 

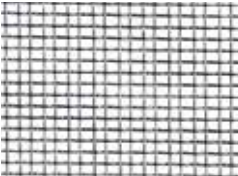
(1) U-Channel Water Tray
(DWG #18)

T2 

(14) 1/2" Lattice
(DWG #19)

T3 

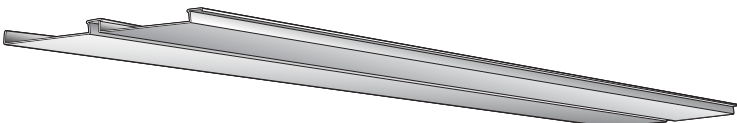
(4) G-Channel – VDCGC6
(DWG #25)

T4 

(14) Screen
(DWG ITEM #29)

R1 

InsideOut® Carrier Rails

R3 

(18) InsideOUT Panel – UDC12
(DWG ITEM #14)

Step 1

Layout Foundation

Tools Needed:

Materials Needed:



4x **K3** Post Mount Bracket



4x **B5** Anchor Bolts

1. Layout the footprint of the Fresco.
2. From center to center on each side, the anchor bolt locations are 11'-8 7/8" apart and 16'-8 1/8" along the diagonal. **(Fig.1)**.
3. For reference, the outside to outside dimensions of the brackets are 12'-2 3/8". Measuring diagonal from outside to outside dimension should be 17'-3" **(Fig. 3)**.
4. The diagonal of the Inside of bracket dimension should be 15'-11 7/16".
5. Determine which side of Pergola you would like the water to drain. This is key to how the assembly process will start. The two shorter posts are installed on the drainage side.

Fig. 1

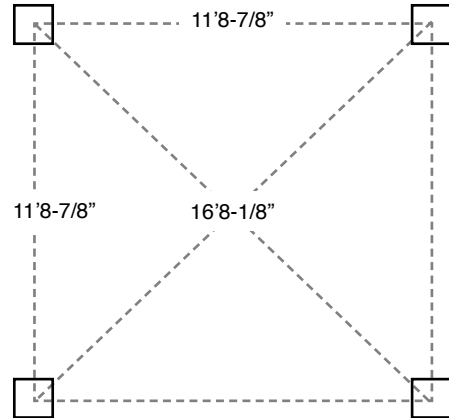
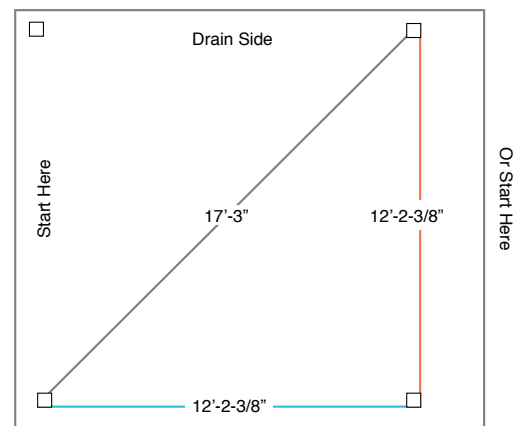


Fig. 2



Fig. 3



Do not start assembly on drainage side or opposite

Tip:

If this is your drainage side, start assembly on the right or left side, not across from it. See step #4 for start of assembly process.

Step 2

Layout Foundation Continued

Tools Needed:

Materials Needed:

			 4x K3 Post Mount Bracket	 4x W1 Carriage Washer
			 4x B5 Anchor Bolts	 4x N1 Carriage Nut

1. Foundation requirements per drawing page below.
2. Drill holes for the anchors with a 5/8" masonry drill bit.
3. Secure post mount brackets **K3** using anchor bolts **B5** . (Fig. 1 & 2)
4. Follow steps 1 and 2 from above to secure the other three brackets.
5. Verify brackets are in correct location per page 5 by measuring outside to outside and diagonal.

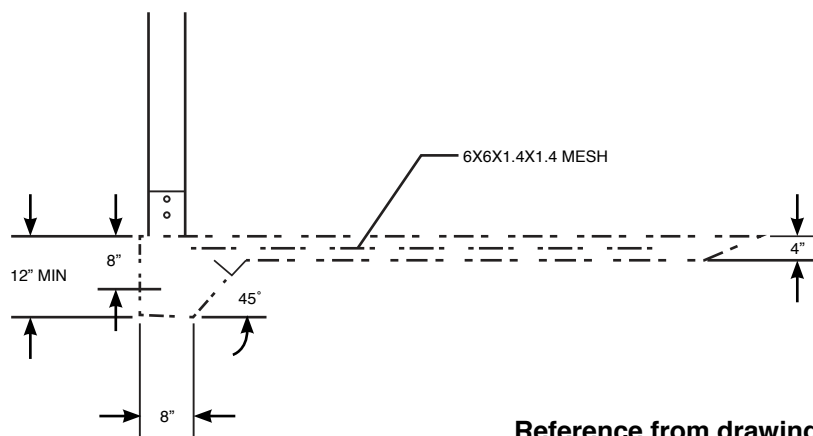
Fig. 1



Fig. 2



5/8" anchor bolt with 8" embed



Base of footing must be below local frost elevations or 4" minimum slab with a 12" turned down perimeter plus W6 x 6 x 1.4 x 1.4 mesh.

Or provide minimum 18" diameter concrete filled Sonotube, depth per local code requirements.

Step 3

Mounting Posts

Tools Needed:

Materials Needed:



8x **K1** 4x6 Knee Brace Brackets

24x **B6** No. 10d Construction Nails



4x **K** 6x6x103" Posts



16x **B1** 3/8 – 2-1/2" Lag Screws

1. Obtain the knee brace brackets **K1** and attach to the 6x6 post **K** as shown, using lag screws **B1**. Do this while the posts are laying on the ground (**Fig. 1 & 2**). Make sure the brackets face the inside of the pergola when standing the posts in position (**Fig. 3**). The two shorter posts need to be installed on the drain side.
2. Secure the post mount brackets to the 6x6 post by using No. 10d construction nails **B6** (**Fig 4 and Fig 7**).
3. Temporarily cross brace each post using the 2x2 lattice support. (**Fig. 8**).
4. Complete #2 above for remaining three posts.
5. Verify the posts are all plumb.

Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

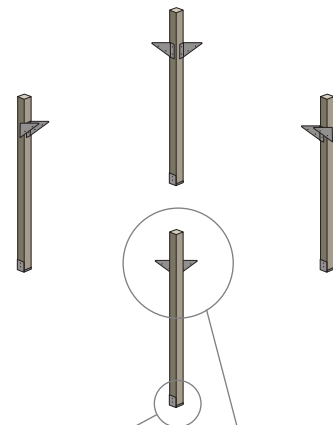


Fig. 7

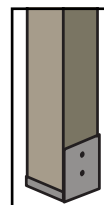


Fig. 6

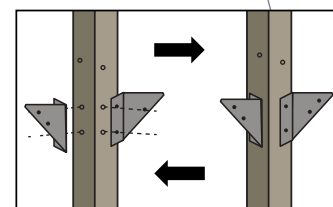
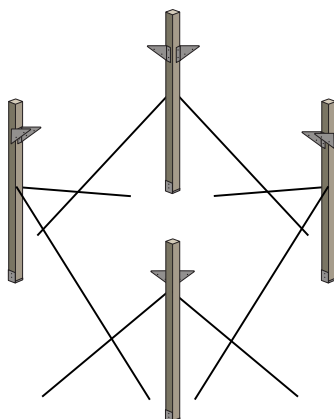


Fig. 8

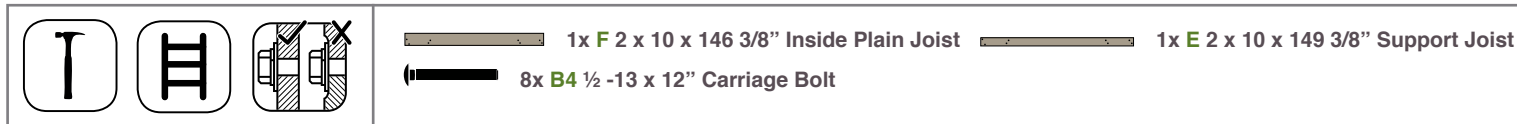


Step 4

Outside Support Rails

Tools Needed:

Materials Needed:



1. Align one 2x10x146-3/8" inside plain joist **F** and one 2x10x149-3/8" support joist **E** next to each other.
2. Drive the 12" **B4** carriage bolts through both boards flush with the inside.
3. Raise this joist assembly into position aligning the bolt with the corresponding hole at the top of the post. Pound one bolt through the post.
4. Raise the opposite end of the joist assembly and drive the bolts through the corresponding holes. Install the second bolt on the first post.
5. Repeat above steps for opposite side of Pergola. (**Fig.6**)

Note: Do not attach washers at this time.

Fig. 1

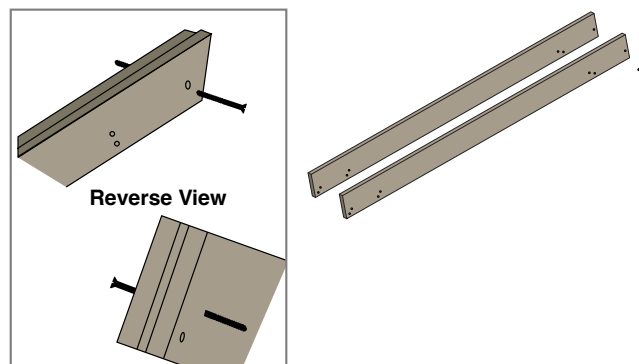


Fig. 3

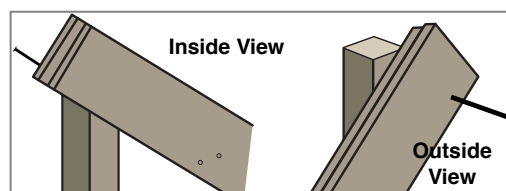


Fig. 4

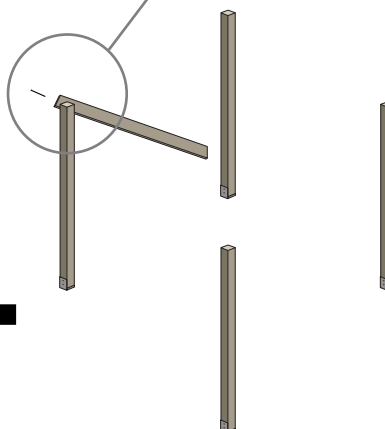
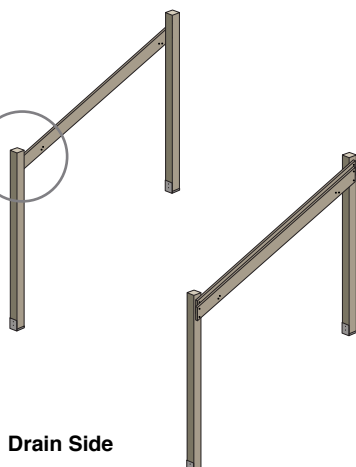
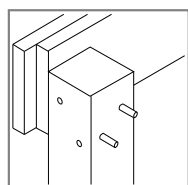


Fig. 6

Fig. 5



Step 5

Inside Support Rails

Tools Needed:

Materials Needed:



2x **A** 2 x 6 x 146 3/8" Support Joist A

16x **B7** 3" Barn Screws



4x **K5** Joist Hanger Brackets

1. Install 2x6x146-3/8" rail **A** to inside of post as shown on the bolts protruding through the posts from the previous step (**Fig.1**).
2. Complete on both ends (**Fig.2**).
3. Place washer **W1** on the carriage bolt and start nut **N1** but **do not** tighten with a wrench!
4. Repeat for other side of pergola. **Note: Go to step 7 before tightening (Fig. 3).** This will allow for easy install of the knee brace.
5. Assemble joist hanger brackets **K5** onto 2x6 rail using 1-1/2" joist hanger nails **B7**. Joist hanger should be aligned with the inside surface of the post (**Fig.4**).
6. Complete the above step at the opposite end of 2x6 rail and to (2) other locations on the opposite side. (**Fig.5**).

Fig. 1

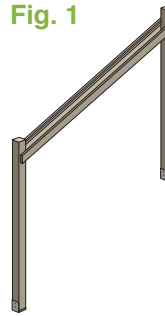


Fig. 2

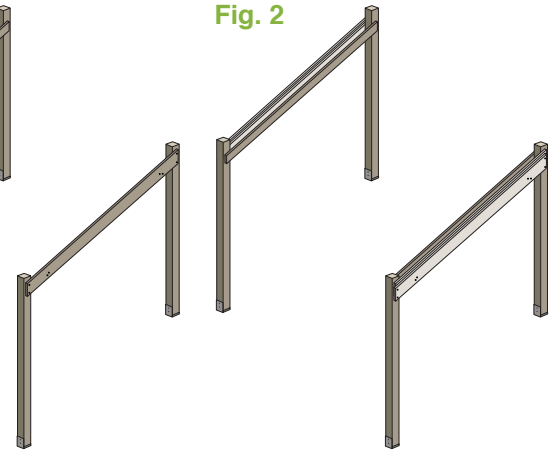


Fig. 3



Fig. 4

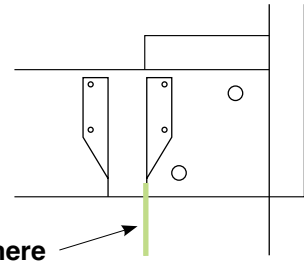
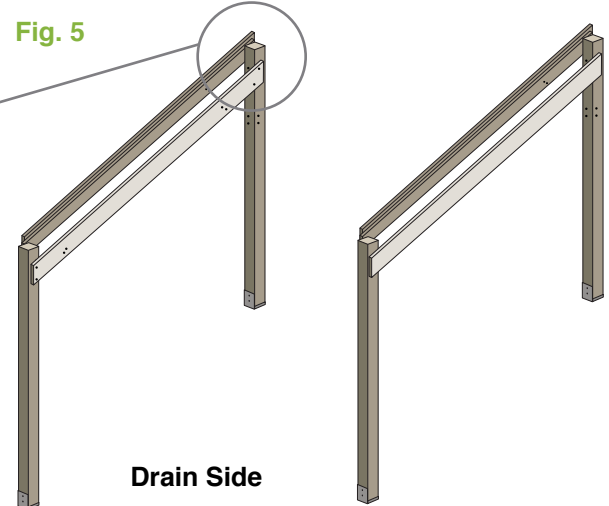
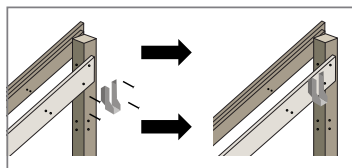


Fig. 5



Detail



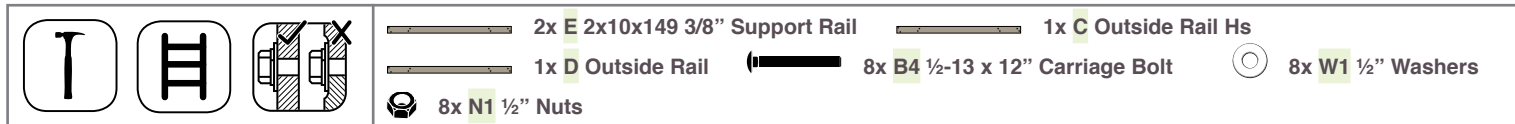
4X

Step 6

Detailed Support Rails

Tools Needed:

Materials Needed:



1. Locate one 2x10x149-3/8" Support Joist **E** and one 2x12" Outside Rail **D**. **Note: This will be the drainage side and uses the 2x12 Outside Rail with 2" notches.**
2. Align the boards and hole patterns (**Fig.2**)
3. Place a washer **W2** on the 10" carriage bolt **B3** and start one in each hole going through the longer joist first. (**Fig.3**)
4. Push one 10" carriage bolt through both joists all the way.
5. The rest of the bolts insert flush with the inner 2x10 support joist, per sketch.
6. Using a ladder raise one end to the top of a post and insert the bolt in the corresponding hole on the post, leaving one end on the ground.
7. Move the ladder to the other post and swing the assembly up and insert the two bolts into the post. (**Fig.4**)
8. Move back to the first post inserting the fourth bolt.
9. Repeat Steps #8 and #9 to other end of Pergola (the non-drainage side). (**Fig.5**)

Fig. 1

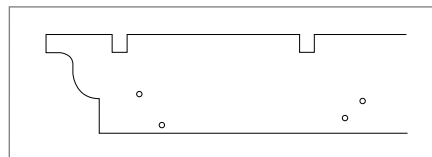


Fig. 2

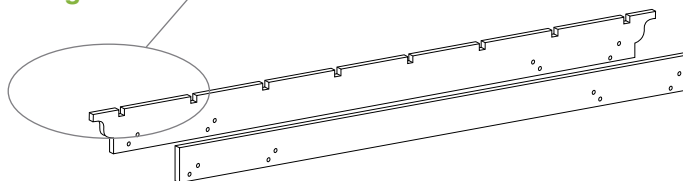


Fig. 3

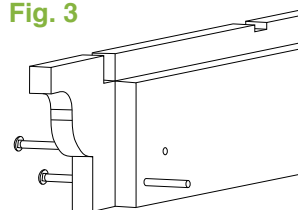


Fig. 4

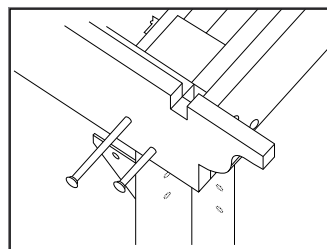
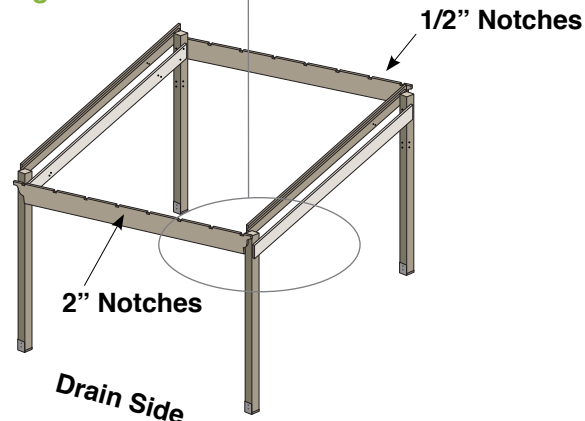


Fig. 5



Step 7

Inside Support Rails

Tools Needed:

Materials Needed:



2x **B** 2x10x132 3/8" Inside Support Joist



8x **B6** No. 10d Construction Nails

1. Locate two 2x6x132-3/8" Inside support rails **B**.
2. Place the boards in the joist hangers previously installed as shown in **(Fig. 1)**. Make sure they butt tight to the opposing 2x6 rails.
3. Secure 2x6 boards in place with **B8** 1-1/2" joist hanger nails.
4. Repeat on opposite side.

Fig. 1

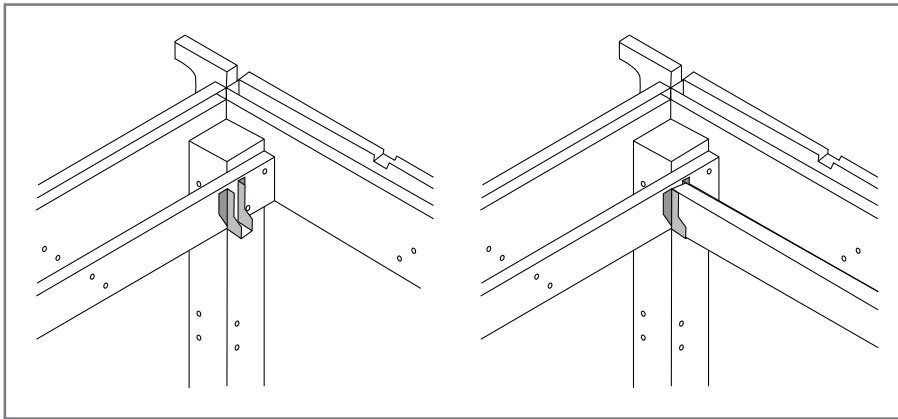
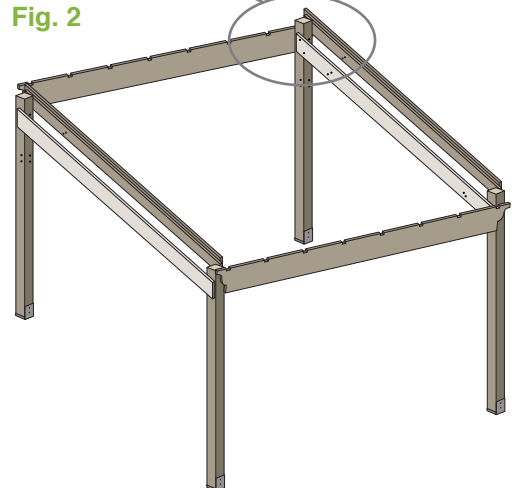


Fig. 2

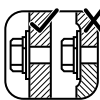


Step 8

Installing Knee Braces

Tools Needed:

Materials Needed:



8x M 4 x 6" Knee Brace

16x K2 1-1/4 x 6" Knee Brace Spacer



32x B6 3" Barn Screws

12x K4 Hurricane Brackets



Fig. 1

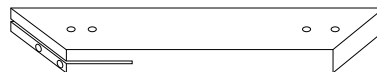


Fig. 2

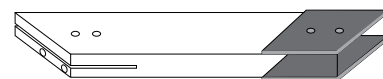


Fig. 3

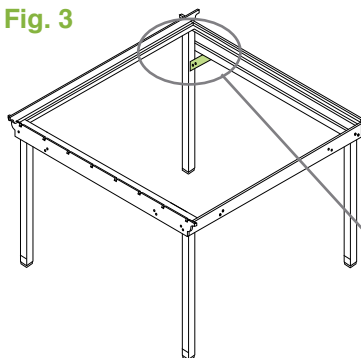


Fig. 4

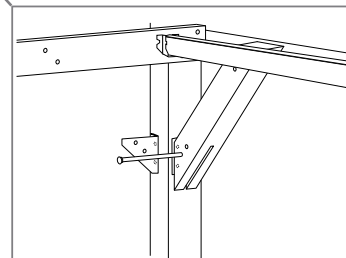


Fig. 4

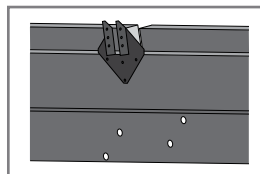
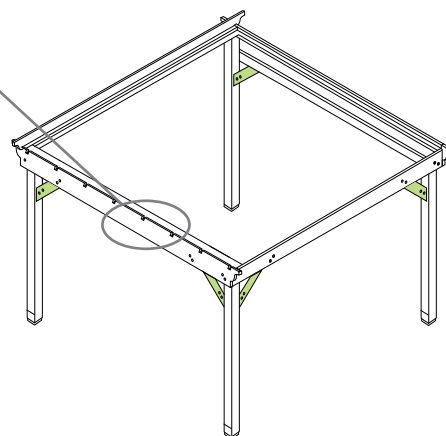


Fig. 5



1. Obtain the knee braces and spacers. Align them using the carriage B4 bolt through both holes. Then attach spacers using 10d nails on each side.

Tip:

The spacer should be placed at the opposite end of the cutout (Fig. 2) for the knee brace bracket.

2. Slide the end of the knee brace with the spacers up between the outer joist assembly and inner 2x6 rail. Align the holes and inset bolts B4 through them. Repeat this step for all (8) knee braces.
3. With one top carriage bolt B3 in place assemble the carriage bolts B2 through the knee brace brackets and secure with washer and nuts. (Fig.4) Install the second top bolt.
4. Verify all post are straight and level.
5. **Tighten all nuts on carriage bolts at this time!**
6. Align the K4 hurricane brackets with each notch along support joists E, on both sides.
7. Nail in each bracket using B8 joist hanger nails on the inside surface of the (4) support joists.

Step 9

Mounting Top Joists

Tools Needed:

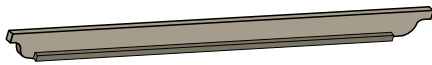
Materials Needed:



14x **H** 2x8x12 Lattice Support
7x **G** 2x2x144 Detailed Top Joist Grand
168x **B7** 3" Barn Screws

1. Nail the Lattice Supports **H** on each side of the (5) 2x8x12 rafters, **G** flush with the bottom and equal distance from each end.

Fig. 2



2. Nail every 12 inches using 10d nails.
3. Both end rafters will only have one 2x2 on inside surface, at the angle of the other rafters (**Fig. 2**). Due to the slope of the ceiling, you will need to angle the lattice supports on the two end rafters, at the same slope.
4. All other rafters will have a 2x2 on both sides flush to the bottom edge.
5. Set each rafter assembly in the joist hangers aligning the ends for a consistent overhang (**Fig. 4**). Nail rafters into hurricane ties with (4) joist hanger nails each.

Fig. 3

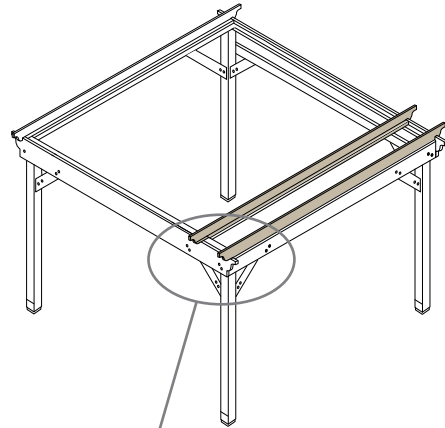


Fig. 5

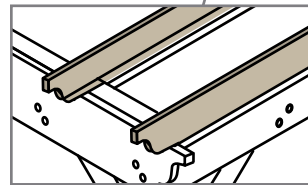


Fig. 6

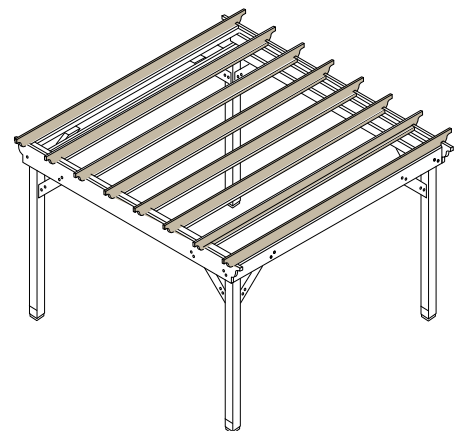


Fig. 4



Tip:

Rafters with only one 2x2 **H** lattice supports attached are to be assembled to the outside notches with the lattice support to the inside.

Materials Needed:

Step 10

Lattice Assembly

Tools Needed:

Materials Needed:



14x T2 1/2" Lattice



7x D 2x6x19 5/8" Center Support



14x T4 Screen Cover

1. Down the center of the ceiling, set 2x6 center supports **J** into place securing on each end through the rafters (**Fig. 2 & 3**) with 10d nails.
2. Set the lattice between the joists resting on the 2x2 lattice supports. (**Fig. 1**)
3. Cut the screen down to 72". Place screen on top of lattice, then secure with staples (**Fig. 4 & 5**).
4. Continue the process, placing the lattice in positions one at a time. This allows access from the bottom up through the rafters (**Fig. 6 & 8**). Secure lattice and screen in place before moving to the next lattice for the remaining six sections on one half (**Fig. 8**). Then move on to the other half following the same procedure (**Fig. 9**).

Fig. 1

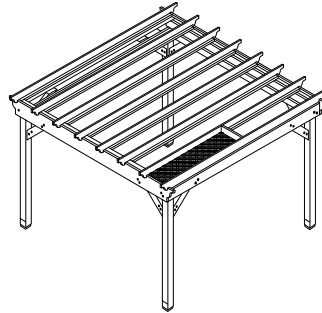


Fig. 2



Fig. 3



Fig. 4

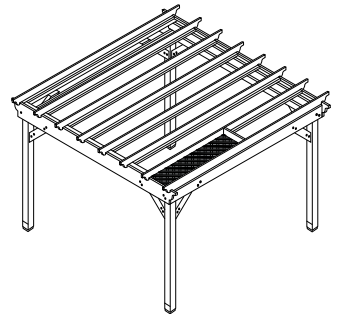


Fig. 5

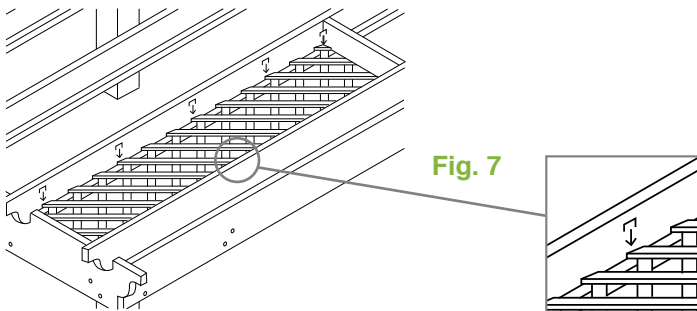


Fig. 7

Fig. 8

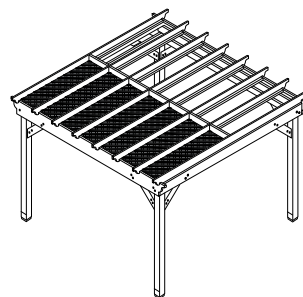
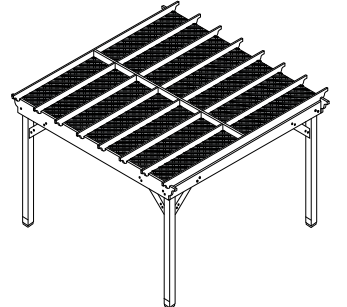


Fig. 9



Tip:

Notice that the screens are stapled to the lattice, **NOT** the 2x2 supports (**Fig. 6 & 7**).

Step 11

U and G-Channel Installation

Tools Needed:

Materials Needed:



1x **T1** U-Channel



3x **T3** G-Channel

1. Locate the U-Channel **T1** and three G-Channels **T3**.
2. On the drain side, lay the U-Channel **T1** flat on the top of the 6x6 posts (**Fig. 1**). The top of these posts should be flush with the top edge inside 2x6 rail.
3. Screw the back of the U-Channel into the 2x10 joist behind it. Do this every 3 feet along the back of the U-Channel.
4. On the opposite side of the U-Channel measure 1.25" down from the joist bottom to determine the top of the G-Channel. (**Fig. 3**)
5. Secure this G-Channel opposite the U-Channel with screws into the joist behind it every 3 feet as well.
6. Install the two side G-Channels by aligning them with the U and G-Channels already installed. On the non drainage side cut away enough of the face of the G-Channel to get it to mitre into the one already installed opposite the U-Channel. On the drainage side, cut away enough of the G-Channel to fit it over the U-Channel flush with the bottom. Secure with screws every 3 feet. (**Fig. 3**)

Fig. 1

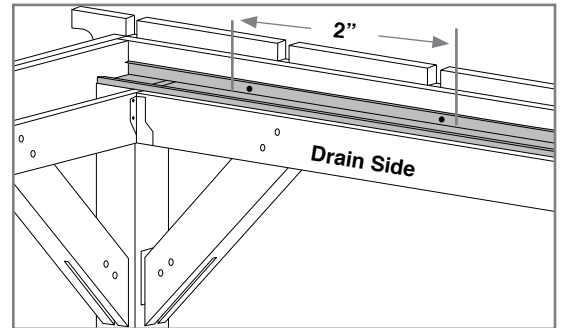


Fig. 2

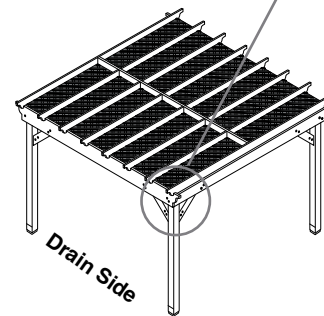
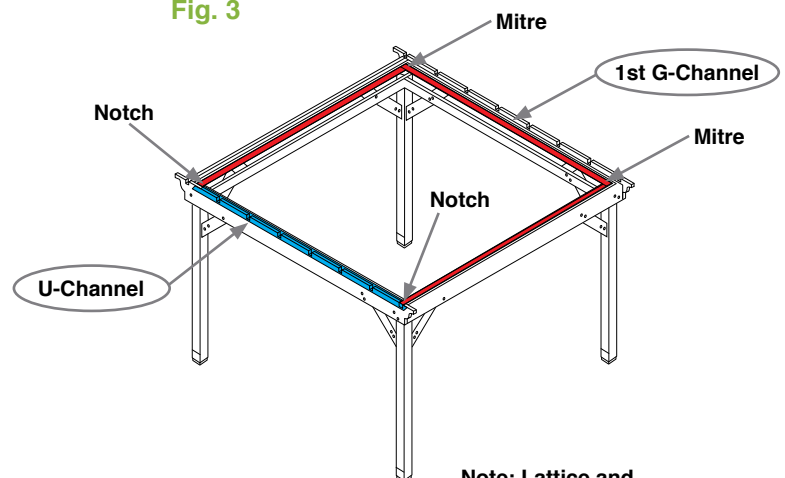


Fig. 3



Note: Lattice and supports not shown.



Step 12

Carrier Rails

Tools Needed:

Materials Needed:



6x **R1** InsideOut Carrier Rails



48x **B7** 3" Barn Screws

1. Locate the five InsideOut Carrier rails **R1**.
2. Bend the first two teeth of the carrier **R1** outward 90° so that it will not interfere with the U or G-channel when installed. (**Fig. 1 & 2**)
3. Install the carrier every 24". Mark out the locations of each carrier rail on the joists as shown.
4. Align all the carriers with the top edge of the G-Channel on one side. When installing the carrier (**Fig 4**) put a 3" barn screw through the end hole of the rail to make room for the panel to slide in and up into the 2x2 lattice support.
5. Put a barn screw through the carrier and up into each joist (**Fig 5**). Do this for all five carriers.

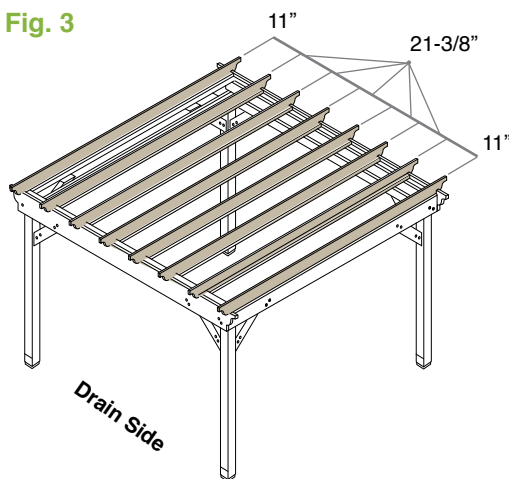
Fig. 1



Fig. 2



Fig. 3



Note: Lattice and supports not shown.

Fig. 4



Fig. 5



Step 13

Installing Panels

Tools Needed:

Materials Needed:



18x **R3** InsideOut Panels

1. Locate the 18 panels. **R3**
2. Snap in the first panel starting at one side. Make sure to slide the panel into the G-Channel as far as it will go. **(Fig. 1 & 2)** before locking the leading edge into the carrier.

Tip:

Note: Make sure that the panels are centered (side to side) in the pergola by checking the length of overhang on the outside.

3. Continue installing panels until you have 4 **R3** remaining. **(Fig. 3)** Always install the leading edge first. Make sure the panel locks in all three contact points within the carrier.
4. At this point, install the last panel against the G-Channel and work backwards installing last three panels. **(Fig. 3 & 4)** Secure the last panel into the inside rim joist through the G-Channel using barn screws before installing the remaining three panels.

Fig. 1

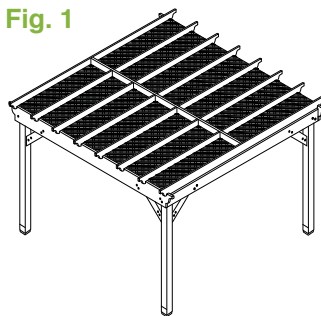


Fig. 2

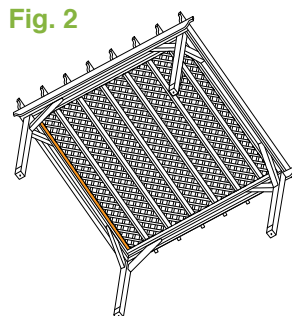


Fig. 3

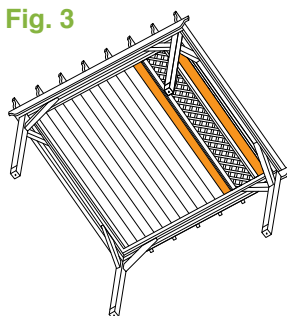


Fig. 4

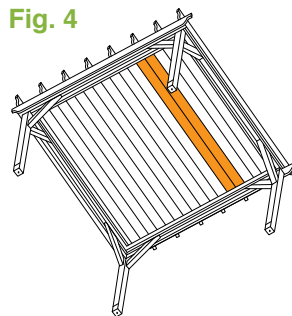


Fig. 5



