

INSTALLATION MANUAL

12X12 COMPLETE PERGOLA ROOM KIT



Revised 04/11/2012

INSIDEOUT[®]
OUTDOOR LIVING

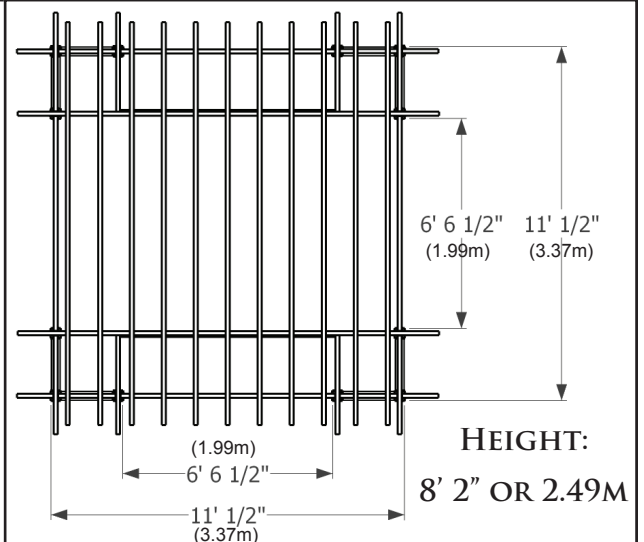
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www.insideoutunderdeck.com



!IMPORTANT SAFETY NOTICE!

- 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 the 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.**
- **Some structures may 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 Cedar (C. Lanceolata) 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.

Tools Required

- | | | | |
|------------------------------|--|---------------------|------------------|
| • Tape Measure | • #2 Phillips or Robertson Bits or Screwdriver | • Adjustable Wrench | • Safety Glasses |
| • Carpenters Level | • Ratchet with extension (7/16" sockets) | • 1/8" Drill Bit | • Adult Helpers |
| • Carpenters Square | • Open End Wrench (7/16") | • Pencil | |
| • Standard or Cordless Drill | | • 3/16" Hex Key | |
| | | • 8' Step Ladder | |

Keys To Assemble Success

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



Use Help



Measure Distance



Use Help



Check that assembly is square before tightening bolts.

Use a measuring tape to assure proper location.

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!

Square Assembly



Check that set or assembly is properly level before proceeding.

Use Level



Pre-drill 1/8" & 3/16" Bit



Pre-drill a pilot hole before fastening screw or lag to prevent splitting of wood.

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.

MATERIAL LIST



(4) 2 x 6 x 13 1/2"



(4) 2 x 6 x 36-13/16"



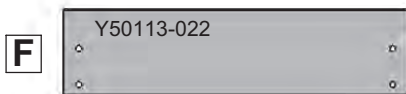
(4) 2 x 6 x 37"



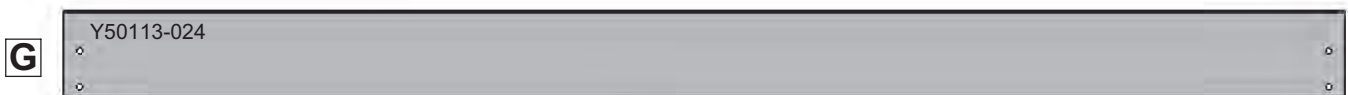
(4) 2 x 6 x 81 7/8"



(2) 1 x 6 x 80 1/2"



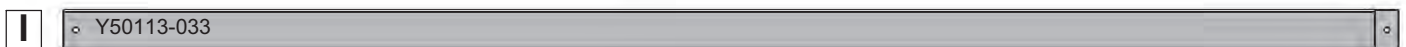
(4) 2 x 6 x 21 5/8"



(4) 2 x 6 x 80 1/8"

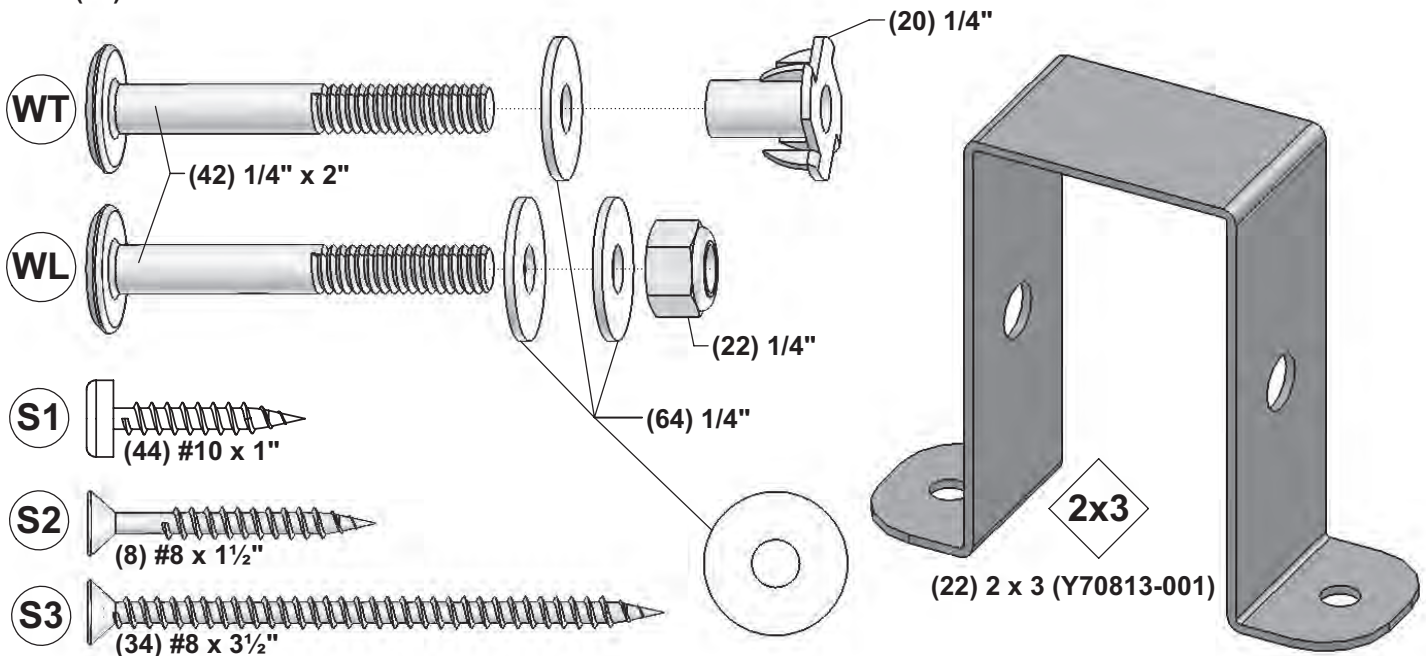


(22) 2 x 3 x 34 3/4"



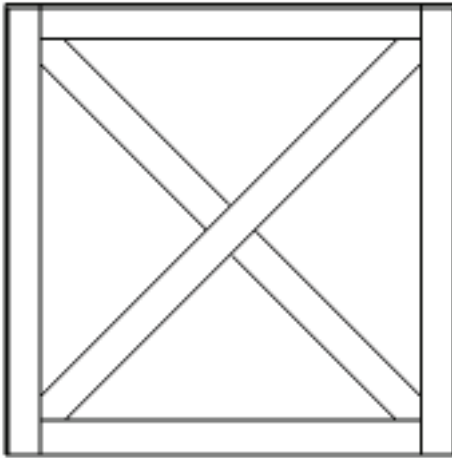
(11) 2 x 3 x 83 1/2"

Normal	Actual
2" x 6"	1 1/2" x 5 1/2"
2" x 3"	1 1/2" x 2 1/2"
1" x 6"	5/8" x 5 1/2"



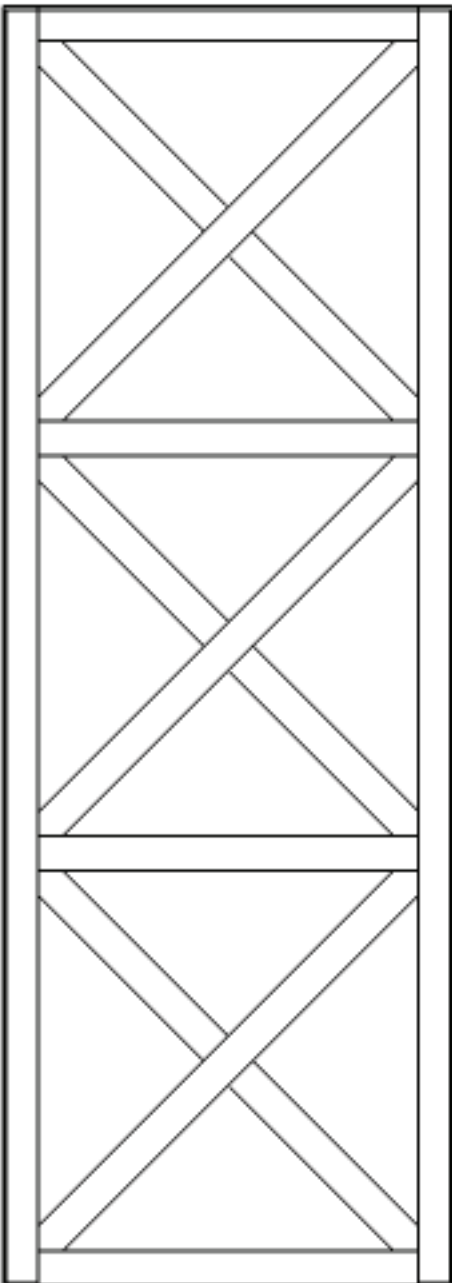
MATERIAL LIST

PX1



(8) One High X Topper

PX3



(8) Three High X Panel

P



(12) 4x4 Post

R



(16) Top and Bottom Rail

S4



#8 x 2 1/4" Wood Screw

S5



#10 x 1" Pan Head Screw

S6

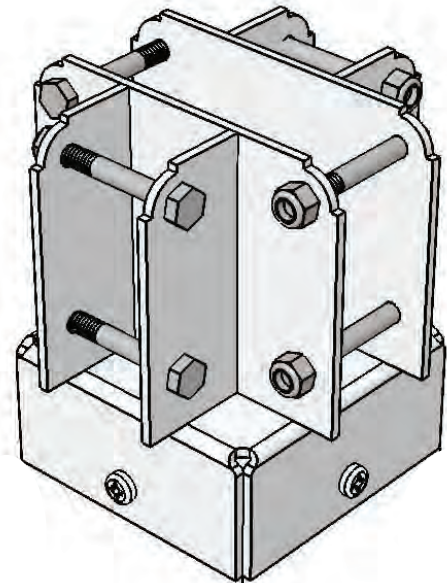


#10 x 1 1/2" Pan Head Screw

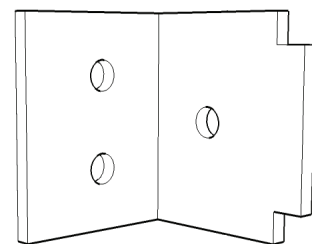
S7



#8 x 1 1/2" Wood Screw



(12) Post Top Connector With
WH 7/16" Hex Bolt Assembly



(48) Panel Clips

STEP 1- ASSEMBLE PANELS

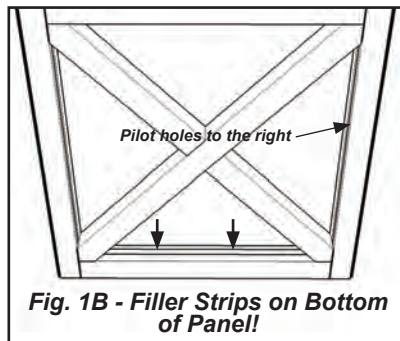
1. Remove the upper metal connectors on both sides of PX3 - Three High X Panel. Reattach the metal connectors to PX3 by securing the bottom two holes of the metal connectors to the top two holes on PX3 so that the metal connectors stick out from the top. Slide PX1 – One High X Topper between the two protruding metal connectors on the top of PX3. Attach the metal connectors to the factory drilled holes in PX1.” (Fig. 1A)

***Ensure Panels are oriented correctly! (Fig. 1B)**

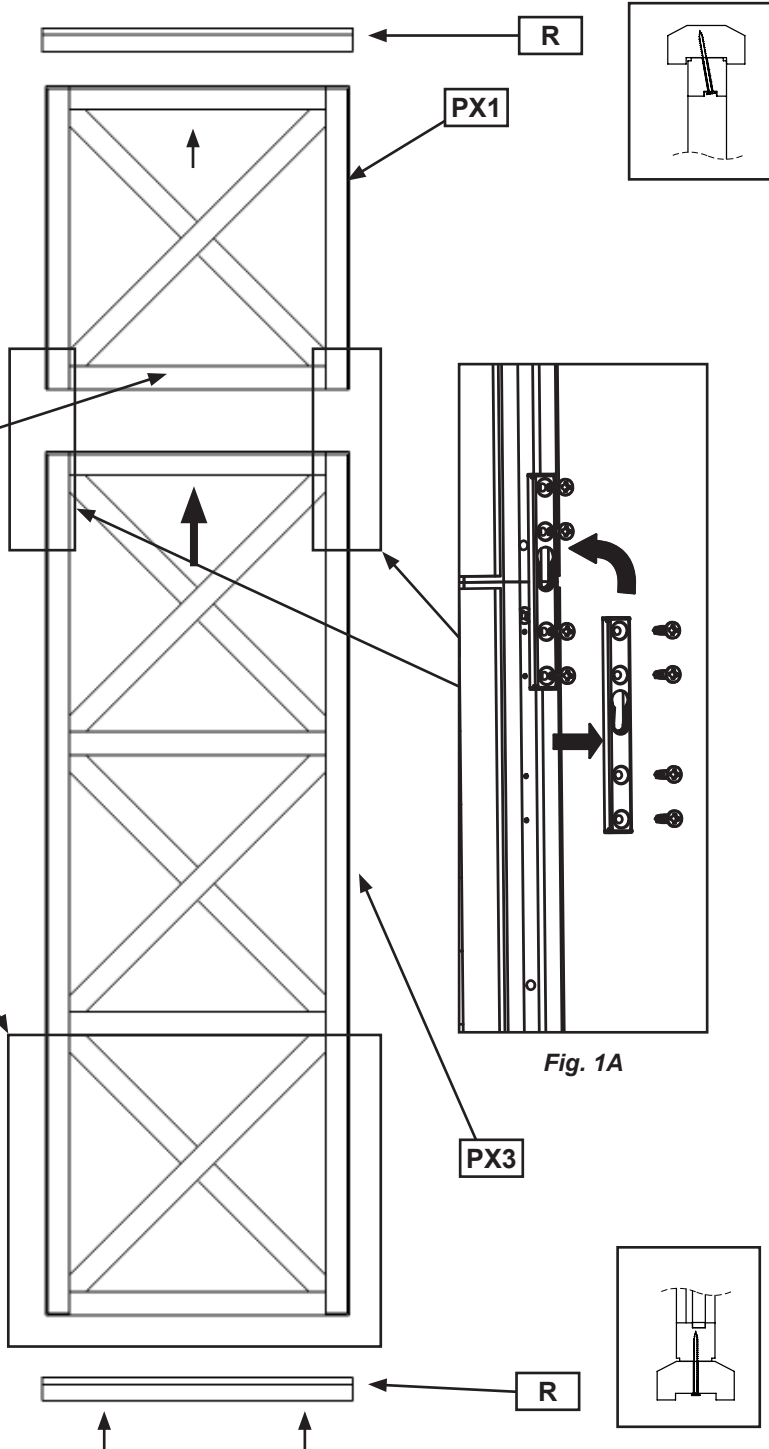
2. Secure panels with a S4 - 2 1/4” Wood Screw the location indicated by the **large arrow** in the direction of the arrow.

3. Secure R-Top and Bottom Rails to Panel Assembly with **S4** - 2 1/4” Wood Screws locations indicated by arrows in the direction of the arrow. ***R- Top and Bottom Rails will overhang 1/4” on either side of panel.**

4. Repeat until eight panel assemblies are created.



x8



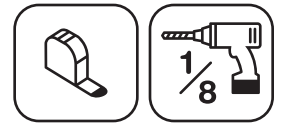
8X **PX1** ONE HIGH X TOPPER

32X **S4** #8- 2 1/4” WOOD SCREWS

8X **PX3** THREE HIGH X PANEL

16X **R** TOP & BOTTOM RAIL

STEP 2- ATTACH PANEL CLIPS TO POSTS



1. On a flat surface place P- 4x4 Post on its side and position Panel Clips in locations indicated in Figures 1 and 1A. **Ensure Panel Clips are oriented as shown in Diagrams!**
2. Panel Clips should be placed in the centre of the post or the leading edge of the clip should be 1 3/8" or 3.5cm away from the side of the post as shown in Fig. 2.
3. With Panel Clips in place, mark screw holes with a pencil and pre-drill holes with a 1/8" drill bit. (Not provided)
4. Secure Panel Clips in locations indicated in figure 1 and 1A with S7- #8 x 1 1/2" wood screws.
5. Repeat for each post configuration (4 in total).

Fig. 1

Front View

Fig. 1A Side View

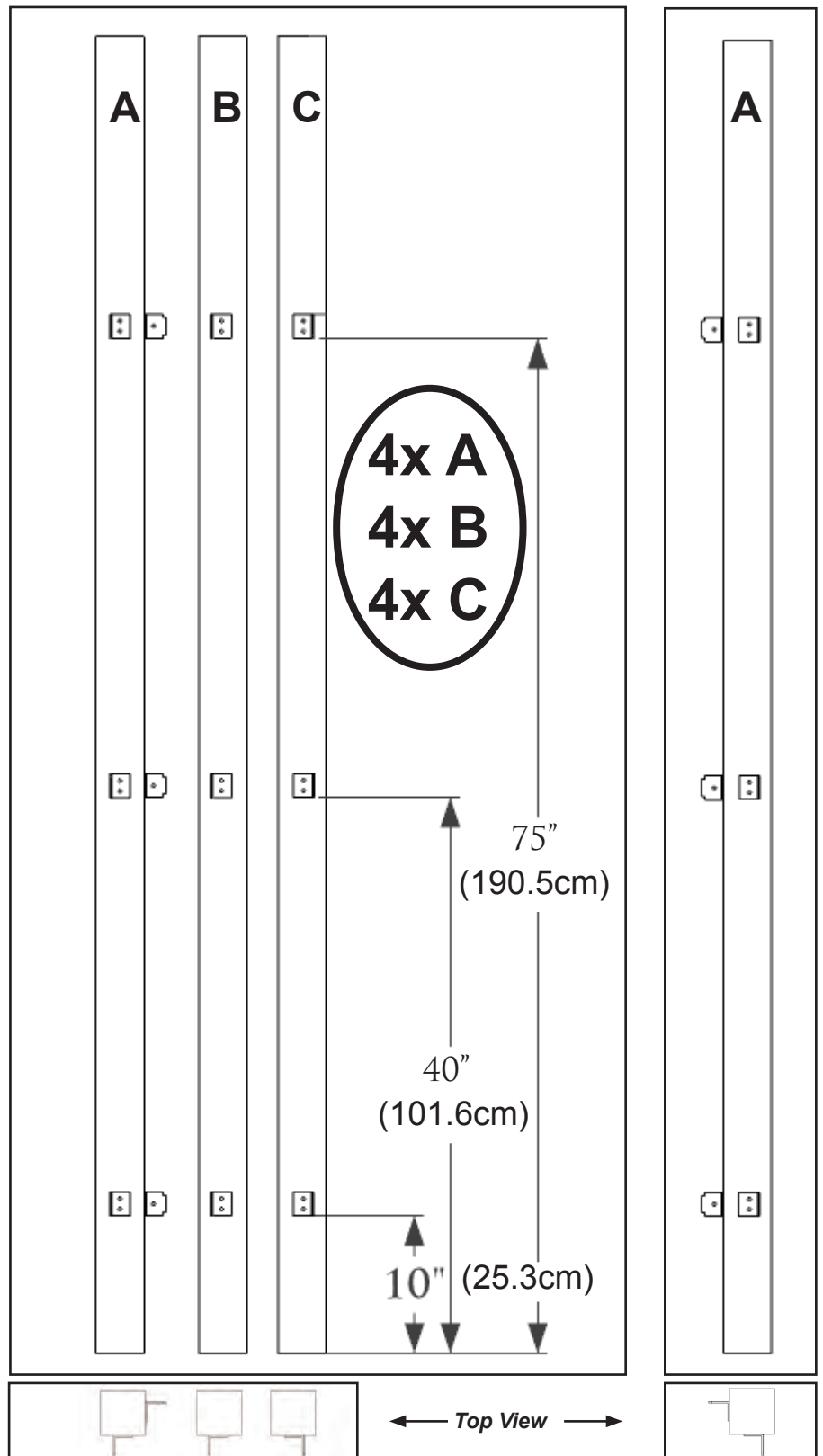
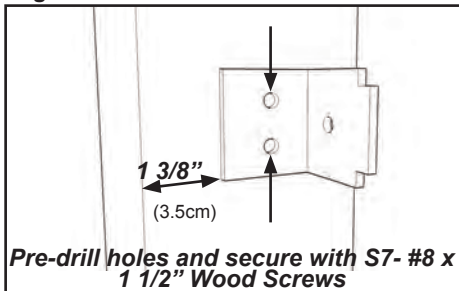


Fig. 2

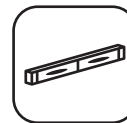


12X 4X4 POST

48X - PANEL CLIPS

48X #8 X 1 1/2" WOOD SCREW

STEP 3 -ATTACH PANELS TO POSTS



1. Place panel assemblies on posts as shown (Fig.1) allowing a 4" gap between the bottom of the post and the bottom edge of the bottom rail on the panel assembly. *Assemble with the help of another adult.*
2. With a 1/8" drill bit, predrill holes as shown in figure 2.
3. Fasten the panel assemblies to the post and Panel Clips with a S5- 1" Pan Head Screw provided in location of arrows. (Fig. 1)
4. Repeat until all four pergola bases are assembled.

Fig. 1

x4

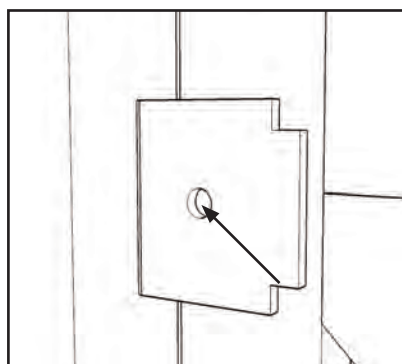
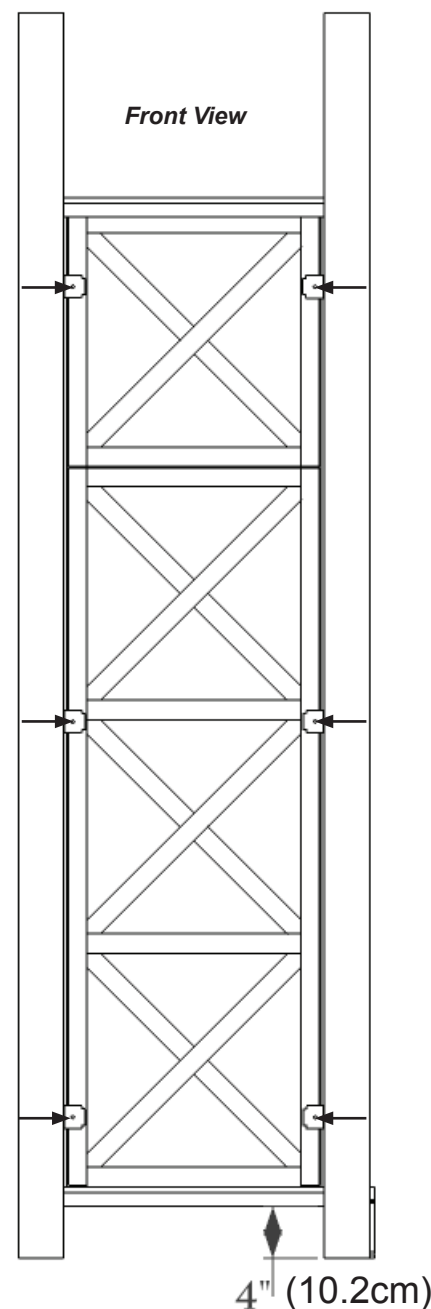
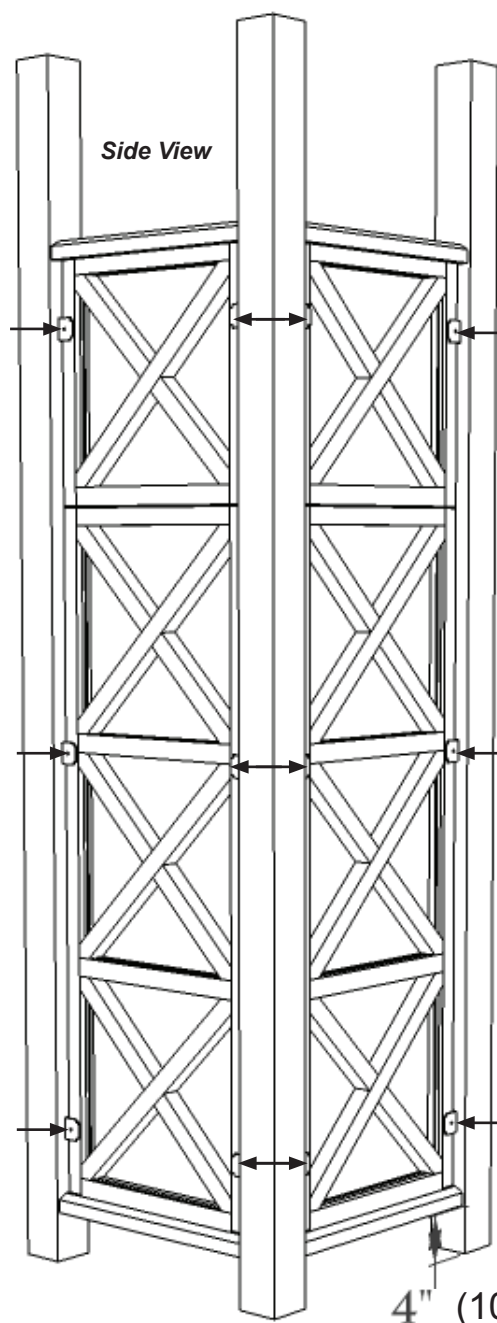
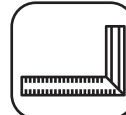


Fig. 2. Predrill Holes and Fasten with S5- 1" Pan Head Screw



48X  1" PAN HEAD SCREW

STEP 4- LAYOUT POSTS AND CONNECTORS



1. Layout pergola bases in configuration shown in figure 1. ***Posts must be securely installed to support structure. Consult local building codes and ground conditions for required footing design. It is recommended the structure be secured to existing stone, concrete or deck with the 4 x 4 Post Base or equivalent hardware.**
2. Install Post Top Connectors with S6- 1 1/2" Pan Head Screws provided. (Fig. 2) Ensure the direction of the Post Top Connector is the same direction as indicated by the arrows in figure 1.

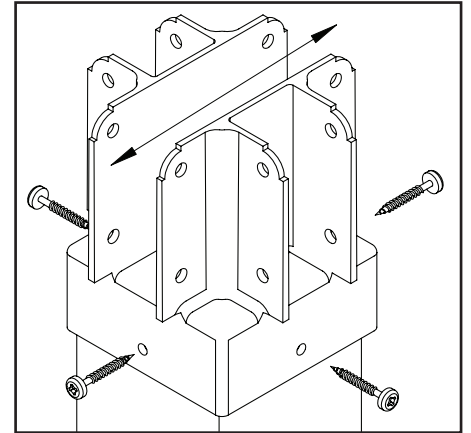
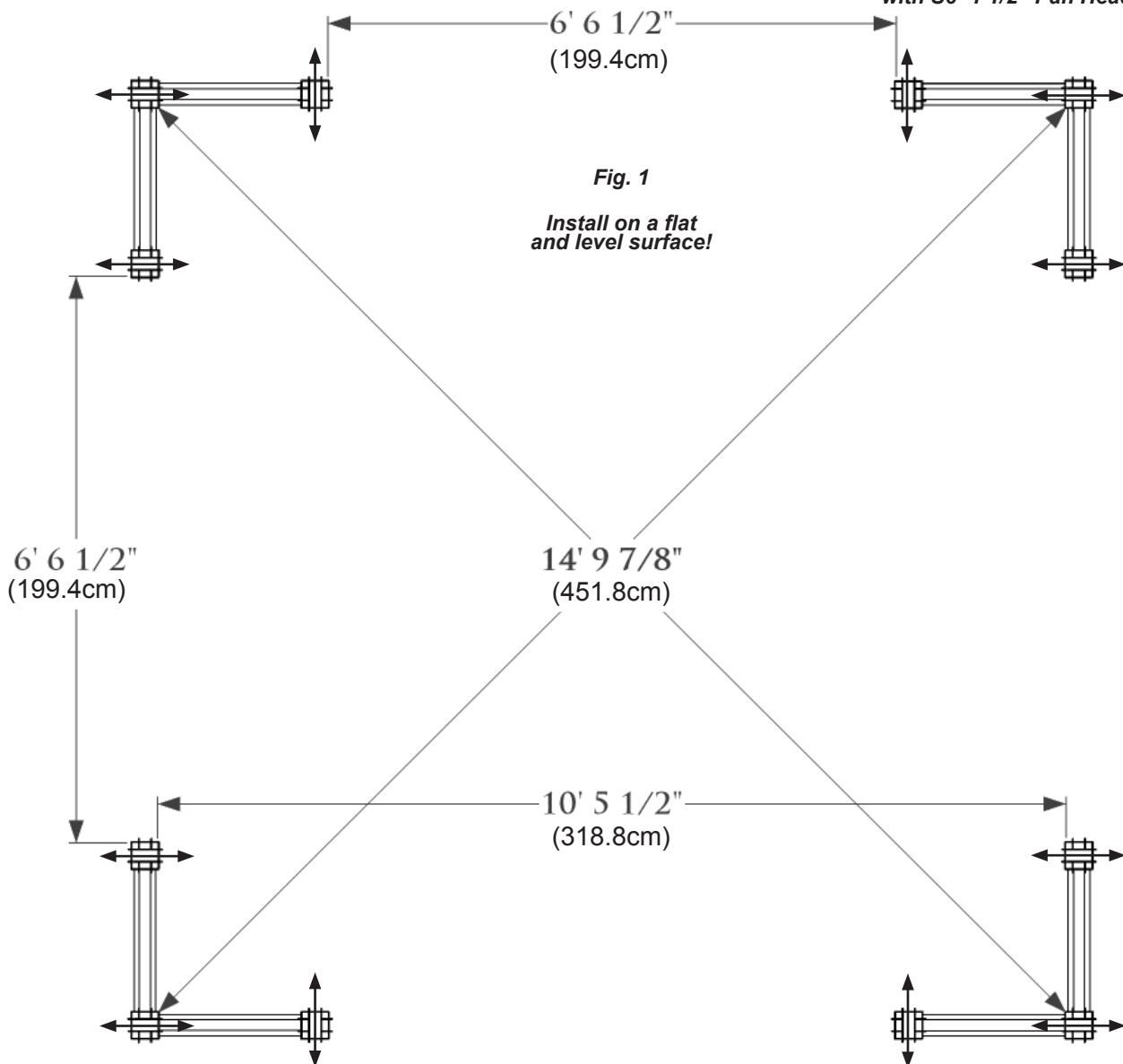


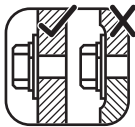
Fig. 2 - Attach Post Top Connectors with S6- 1 1/2" Pan Head Screws.



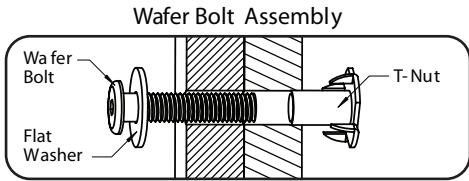
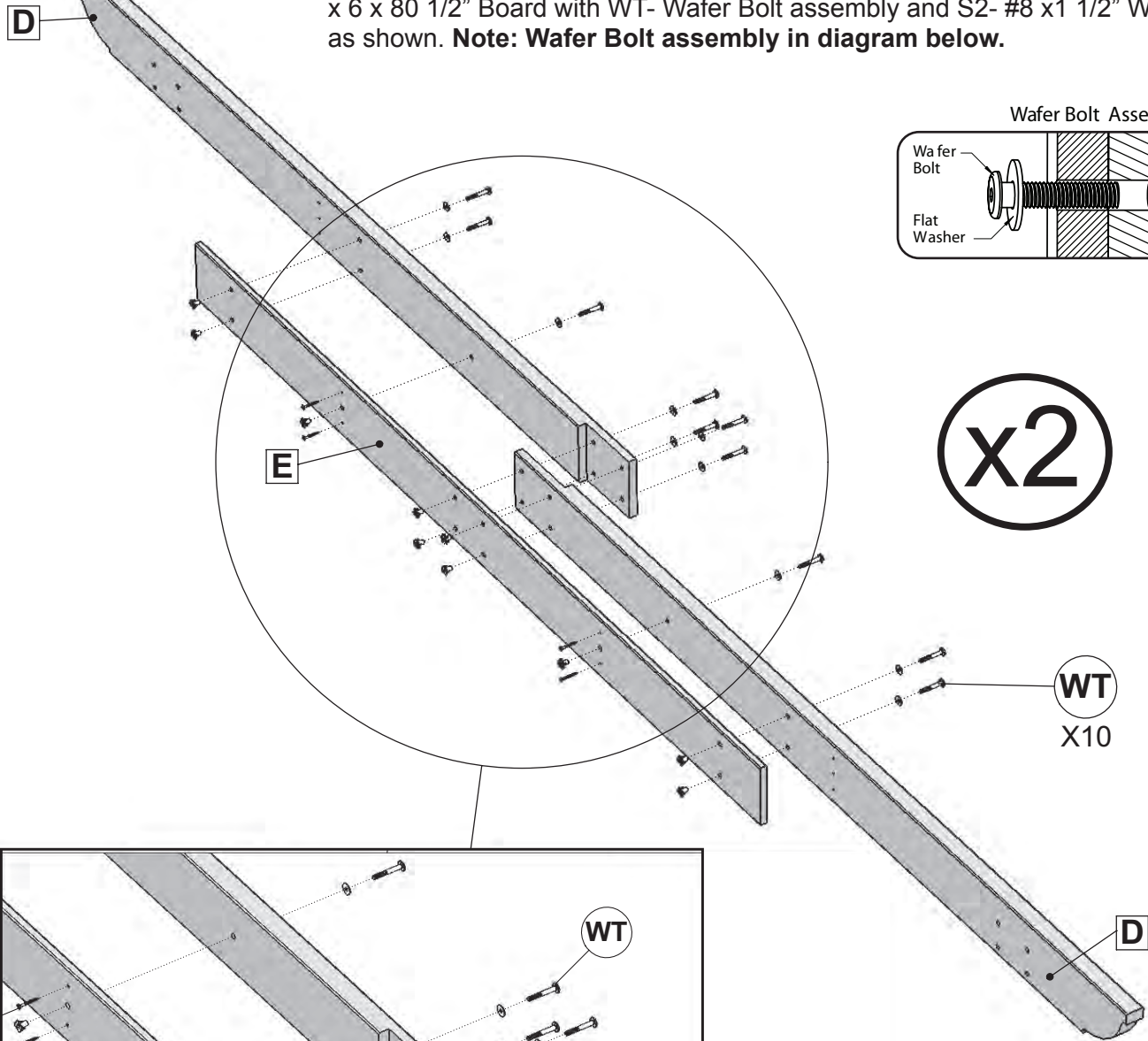
48X  1 1/2" PAN HEAD SCREWS

12X - POST TOP CONNECTOR

STEP 5- ASSEMBLE EXTENDED BEAM

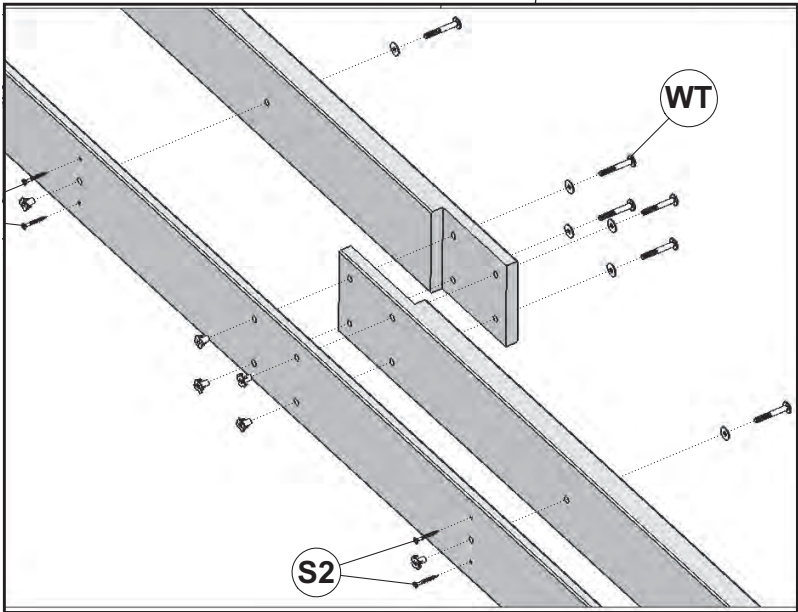


1. Assemble 2 DDE- Extended Beam by securing two D-2 x 6 x 81 7/8" Beams and E-1 x 6 x 80 1/2" Board with WT- Wafer Bolt assembly and S2- #8 x1 1/2" Wood Screws as shown. **Note: Wafer Bolt assembly in diagram below.**



x2

WT
X10



20X **WT** 1/4 x 2" WAFER BOLT ASSEMBLY W/ T-NUT

8X **S2** #8- 1 1/2" WOOD SCREW

4X **D** 2 x 6 x 81 1/2" BEAM

2X **E** 1 x 6 x 80 1/2" BOARD

STEP 6A- MOUNTING BEAMS TO CONNECTORS

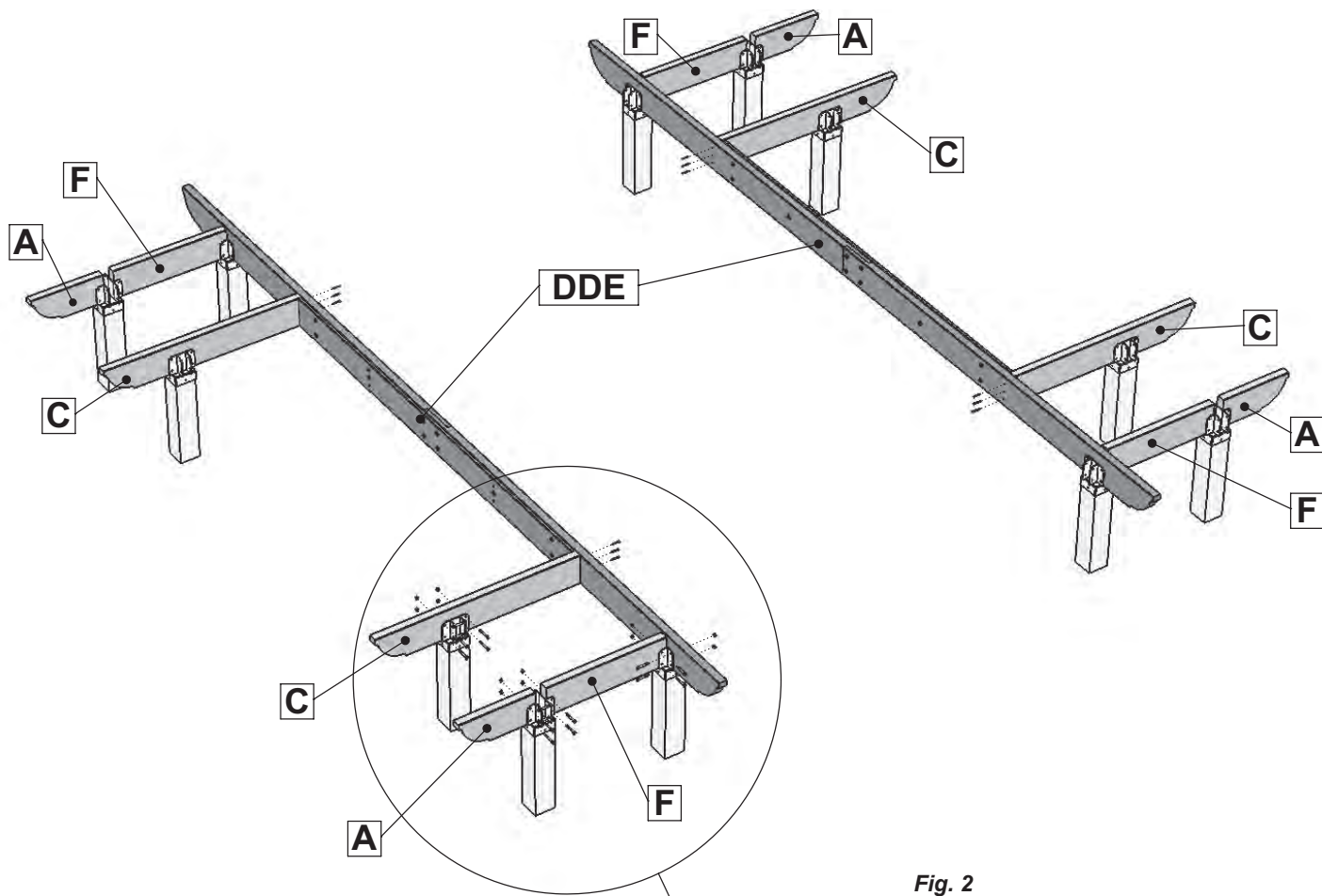
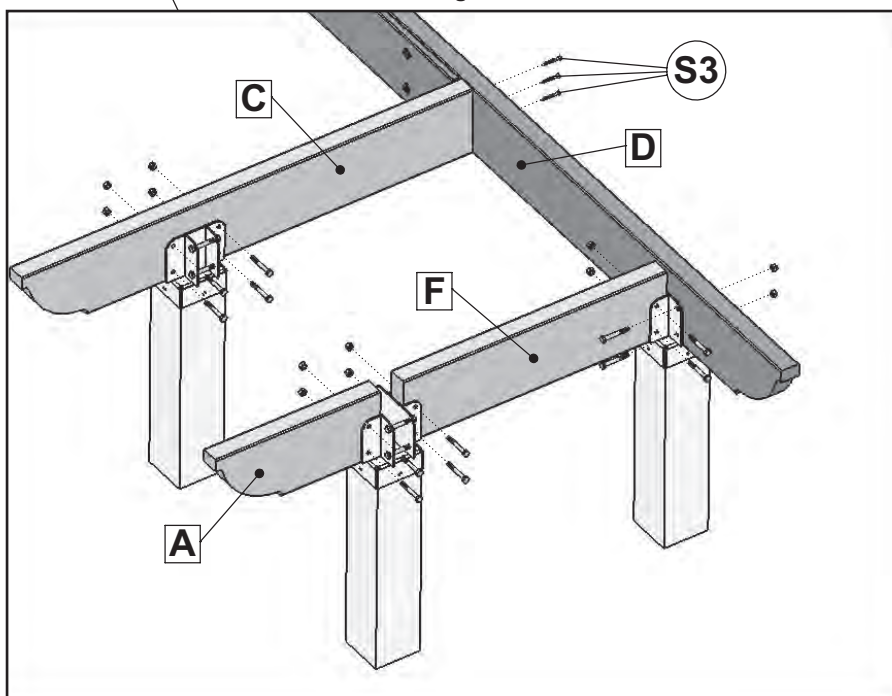


Fig. 2

1. Attach C to DDE with 3 S3 #8 X 3 1/2" Wood Screws.
2. Attach C to post with 3 WH-Hex Bolts. Connect the other side to DDE with 3 S3 #8 X 3 1/2" Wood Screws.
3. Attach A to post with 2 WH-Hex Bolts. Attach F to Post with 2 WH-Hex Bolts, and the other side to DDE with 2 S3 #8 X 3 1/2" Wood Screws.
4. Repeat assembly for both beams.



4X **A** 2 X 6 X 13 1/2" BEAM END

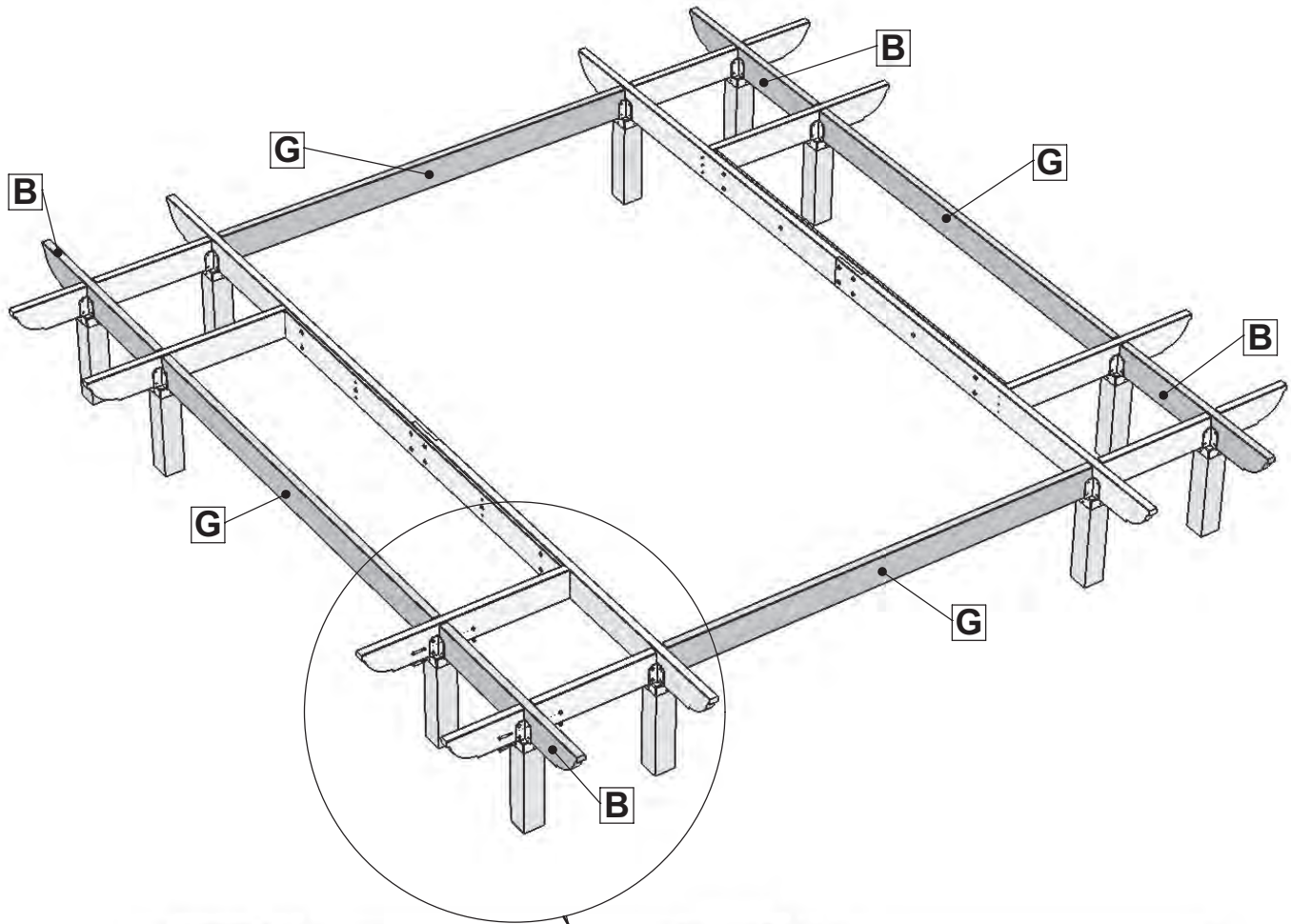
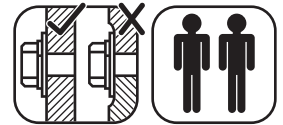
4X **C** 2 X 6 X 37" BEAM

4X **F** 2 X 6 X 21 5/8" BEAM

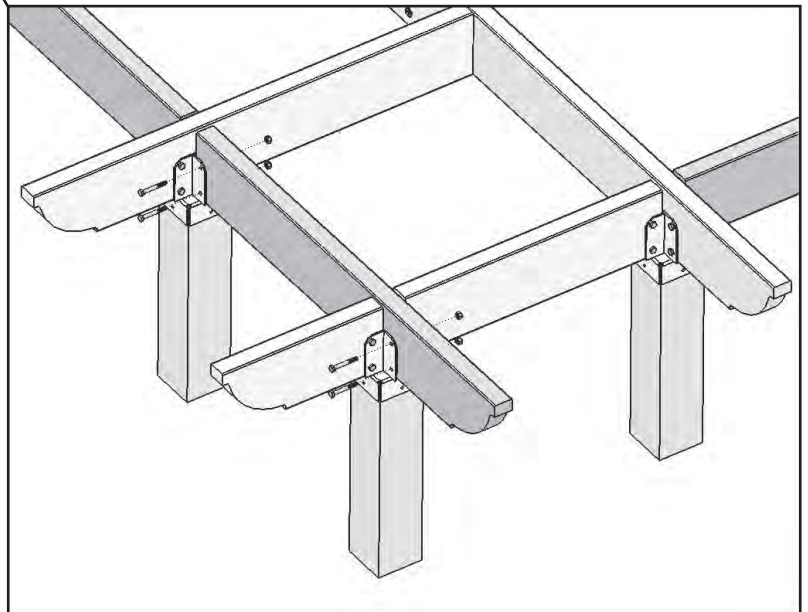
12X **S3** #8 X 3 1/2" WOOD SCREW

56X **WH** HEX BOLT W/ NUT

STEP 6B- MOUNTING BEAMS TO CONNECTORS



1. Connect both DDE panels with 2 G- 2X 6 X 80 1/2 Beams with Hex bolts provided (2 per post joint).
2. Attach remaining 2 G- 2 X 6 X 80 1/2 Beams between outside posts (as shown in diagram). Secure with Hex bolts provided (2 per post).
3. Place 4 B-2 X 6 X 36 13/16" Beams between A & F and attach to C Beams (as shown in diagram). Attach with 2 Hex Bolts per post.



4X E 2 X 6 X 80 1/2" BEAMS

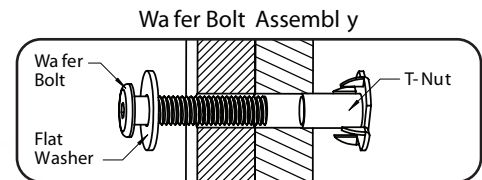
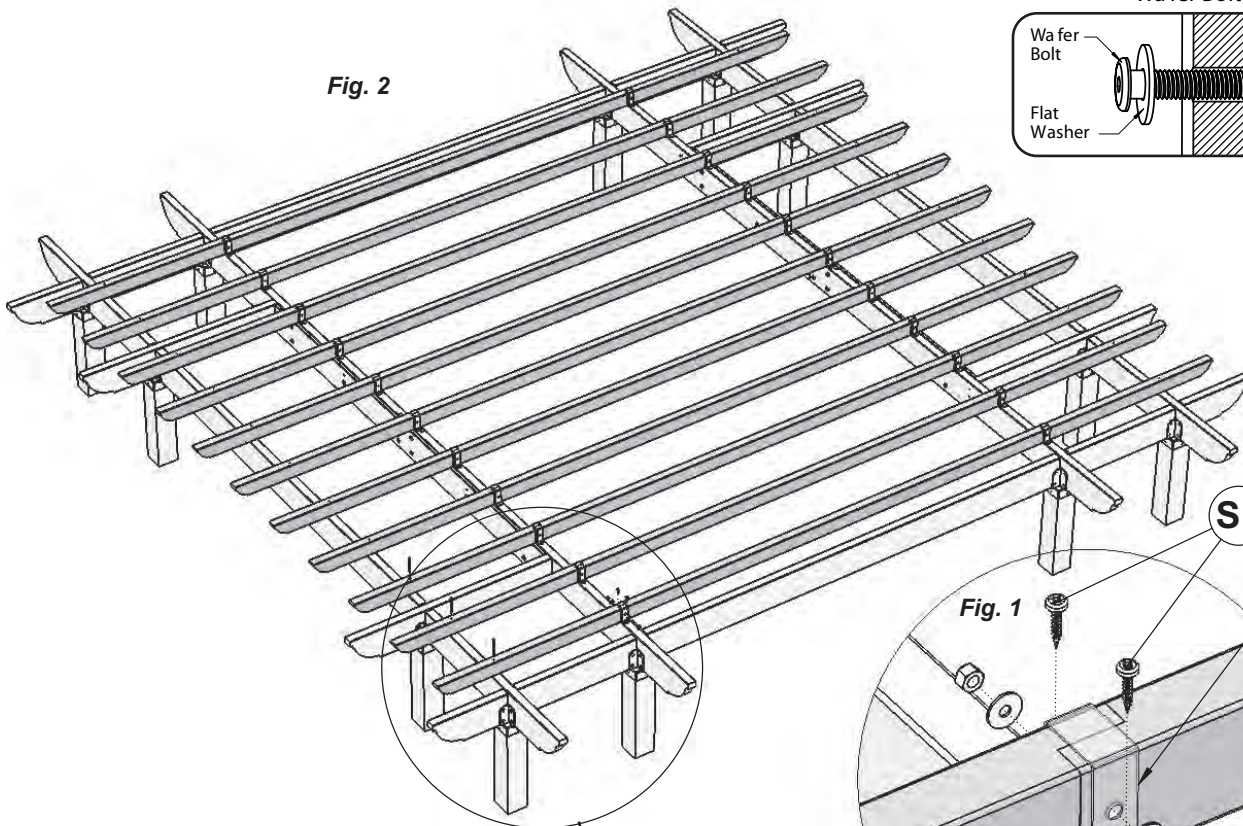
48X WH HEX BOLT W/ NUTS

4X B 2 X 6 X 36 13/16" BEAMS

STEP 7- INSTALLING PERGOLA ROOF

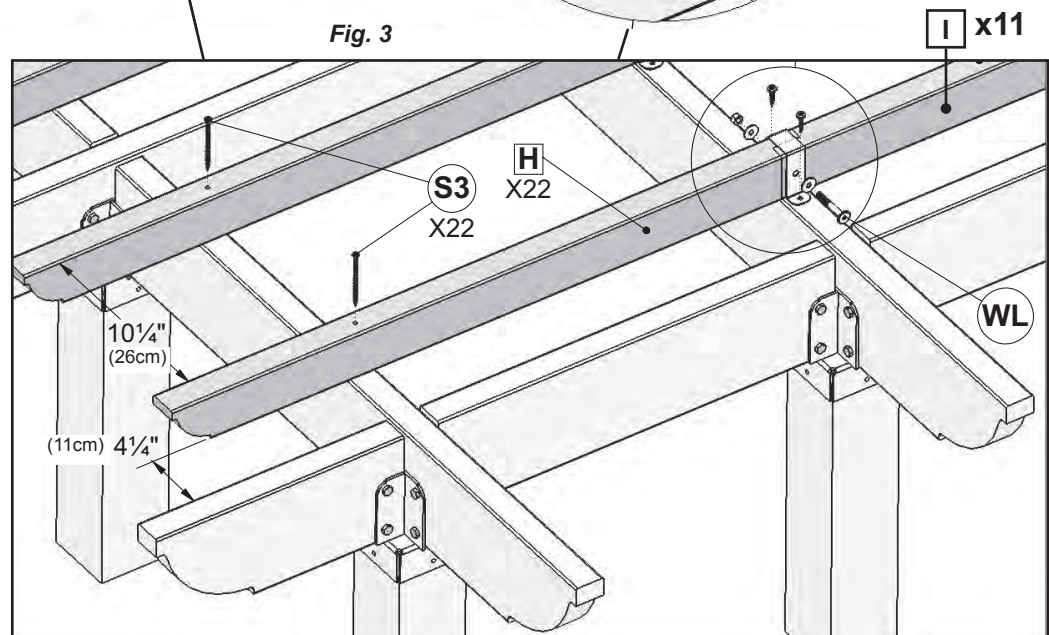


Fig. 2



1. Assemble roof by fastening H-2 x 3 x 34 3/5" Trellis Ends to I-2 x 3 x 83 1/2" Trellis Middle using 2x3- Metal Bracket and WL- Wafer bolts as shown in Fig. 1
2. Layout the roof on the beams as shown in figure 2.
3. Allow for a 10 1/4" or 26cm gap between each trellis assembly and 4 1/4" or 11cm gap between the outside trellis assemblies and the outside beam side. Fig. 3.
4. Fasten roof to beams with S3- #8 x 3 1/2" Wood Screw at pre-drilled hole on trellis end and S1- #10 x 1" Pan Screw on 2x3-Metal Bracket.

Fig. 3



22X 2 X 3 X 34 3/4" TRELLIS END

22X #8 X 3 1/2" WOOD SCREWS

22X 1/4 X 2" WAFER BOLT ASSEMBLY

11X 2 X 3 X 83 1/2" TRELLIS MIDDLE

44X #10 X 1" SCREW

22X - 2X3 BRACKET