



# **GAZEBO PENGUIN INC.**

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**PLEASE READ  
IN ITS ENTIRETY  
BEFORE  
INSTALLATION**

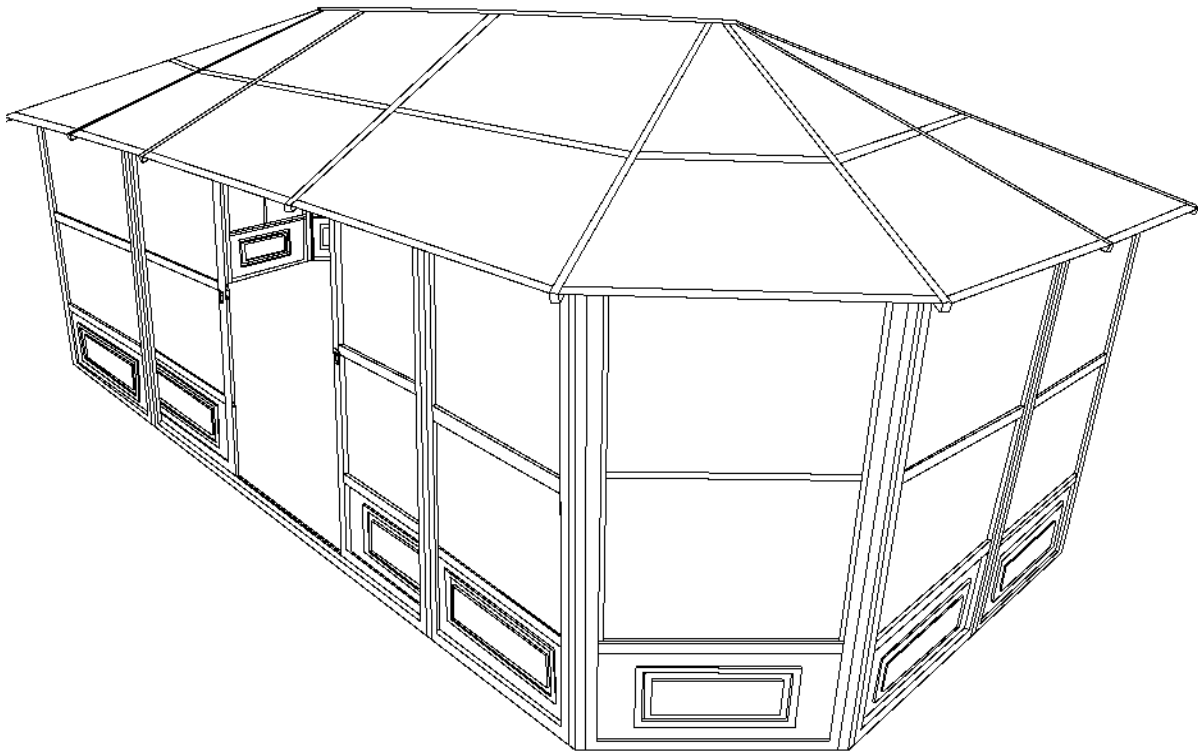
**PLEASE READ  
IN ITS ENTIRETY  
BEFORE  
INSTALLATION**

## **41218**

### **12 X 18 SOLARIUM**

## **ASSEMBLY INSTRUCTIONS**

**DO NOT DESTROY THE BOXES UNTIL COMPLETELY ASSEMBLED**



**PLEASE VERIFY THE CONTENT OF EACH BOX AGAINST THE LIST OF PARTS**

Three adults required for assembly

Base Dimensions 12' ½"x18'11", Largest Dimensions 13'6"x20'4 ½" (see pg.15)

Overall Height 110"

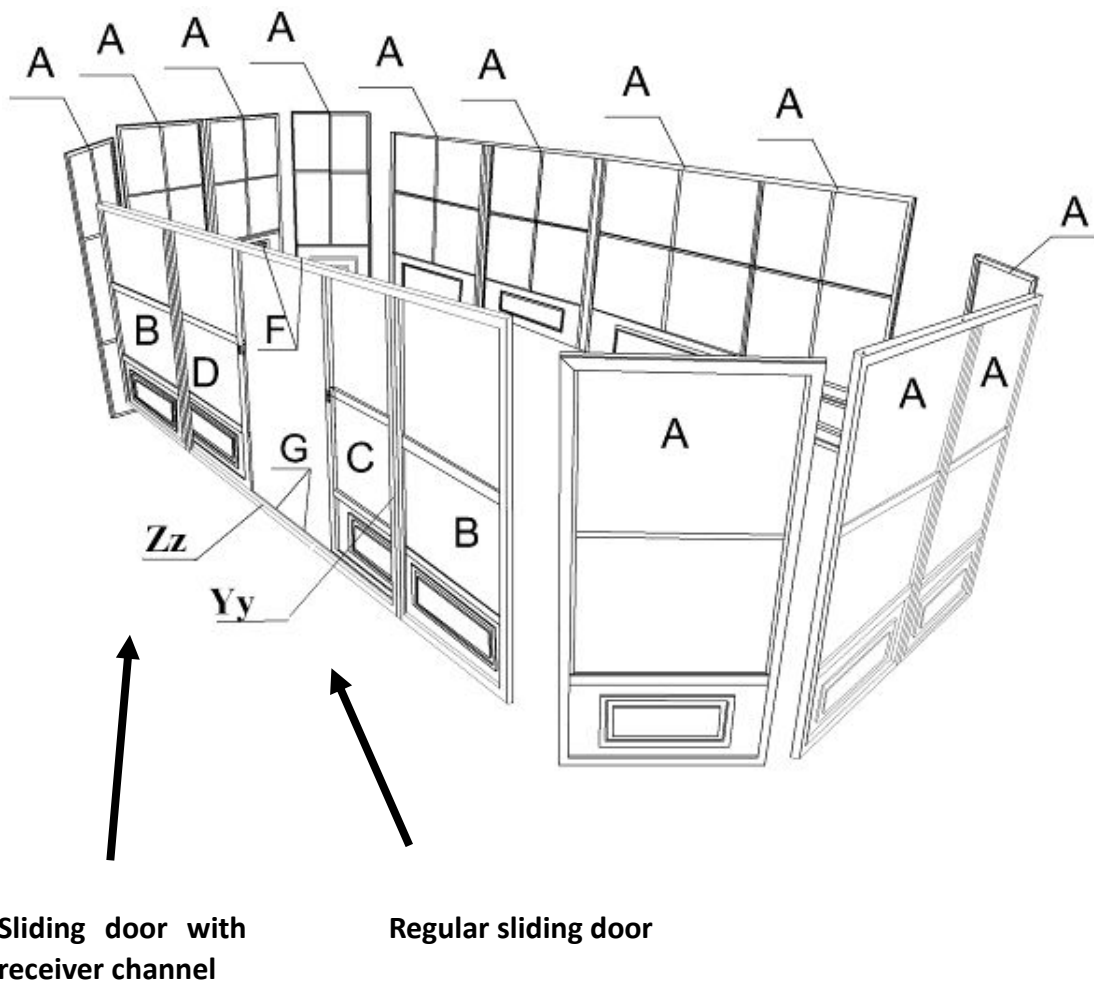
## Before you assemble the solarium

- Please don't destroy boxes until completely assembled.
- Please verify the content of each box against the list of parts.
- It is important that this solarium be installed on a solid base with the provided screws. Otherwise, please ensure that you use anchors sufficient for your surface.
- The solarium should not be installed adjacent to trees or a sloped roof. Snow and ice may slide onto the solarium and cause it to collapse.

### Tools needed:

- Step ladder
- #2 Phillips screwdriver
- Rubber mallet

Based on the location, decide where you would like to position the solarium. Remember the sliding door with "C" shape should be placed on the left side.

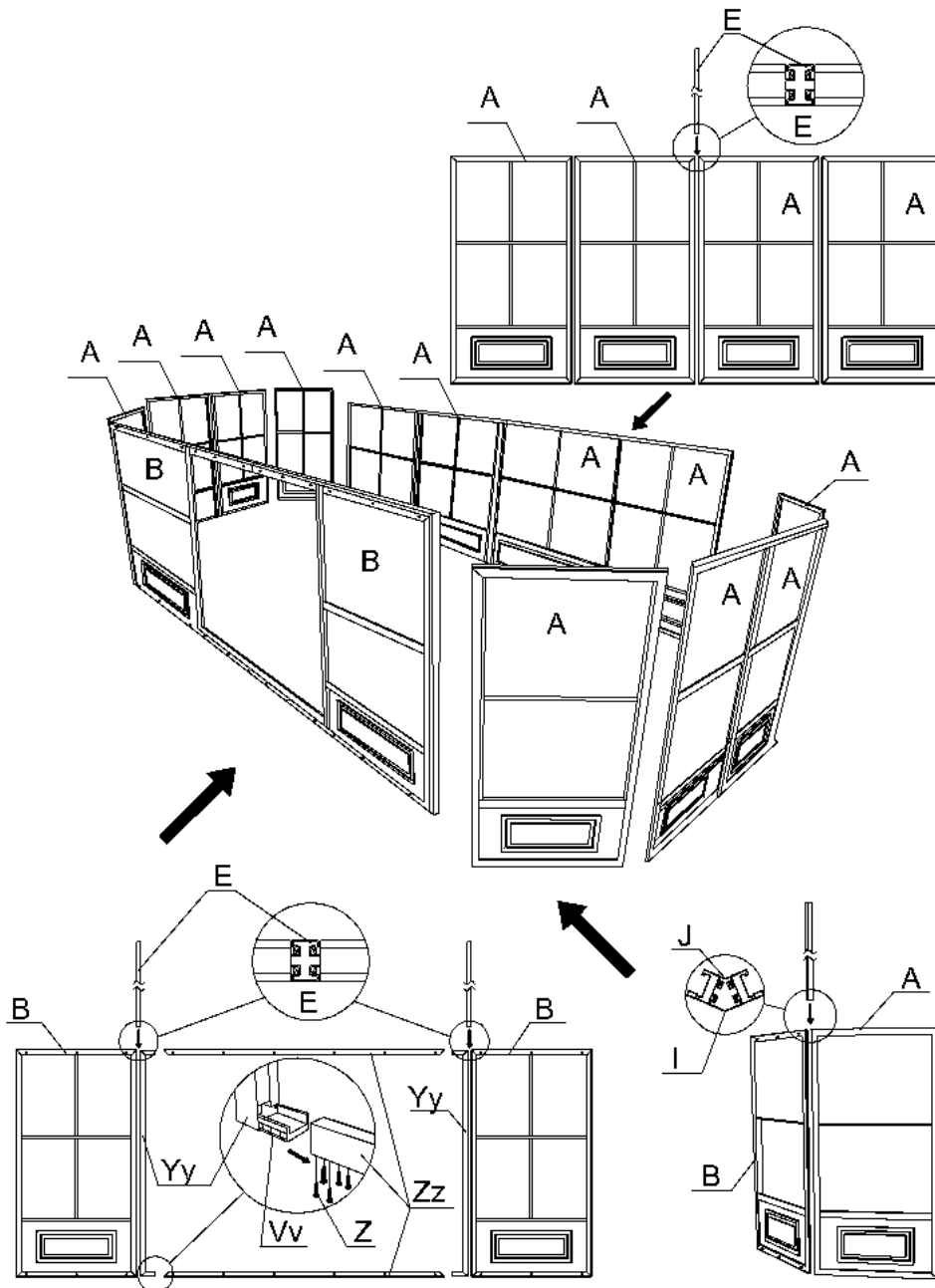


## 12x18 Solarium Assembly Instructions

### Step 1:

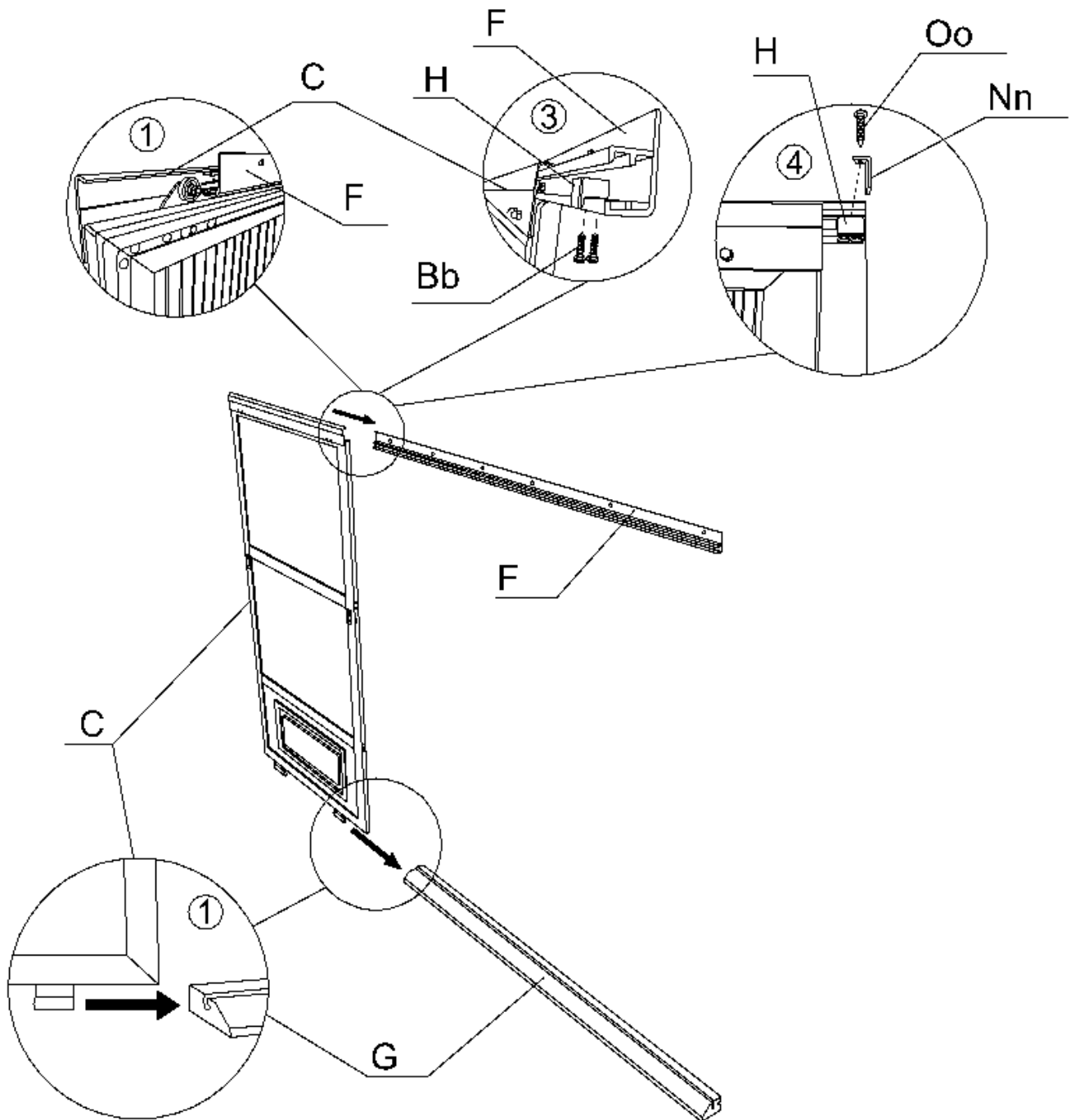
Before starting to assemble, please decide where you would like to position the door panels.

1. Stand up two regular frames (A), using two connecting pieces (E) and affix the panels (A) together
2. Assemble door frame separately. Assemble 2 vertical bars (Yy) with 2 horizontal bars (Zz). Make sure the shape of the aluminum matches the other parts to be joined. With a rubber mallet get them closed at the corners. Make sure to not damage the aluminum parts. Use screws (Z) to secure 4 corners manually, screwing all screws into frame 4 predrilled holes.
3. After assembling door frame, attach to frames (B) on either side, by sliding connecting piece (E) between the frame and the door frame.
4. When assembling angled panels (A, B), you should put the two panels at 135 degree angle then use the angled connecting pieces (I) and (J) to affix the panels together.



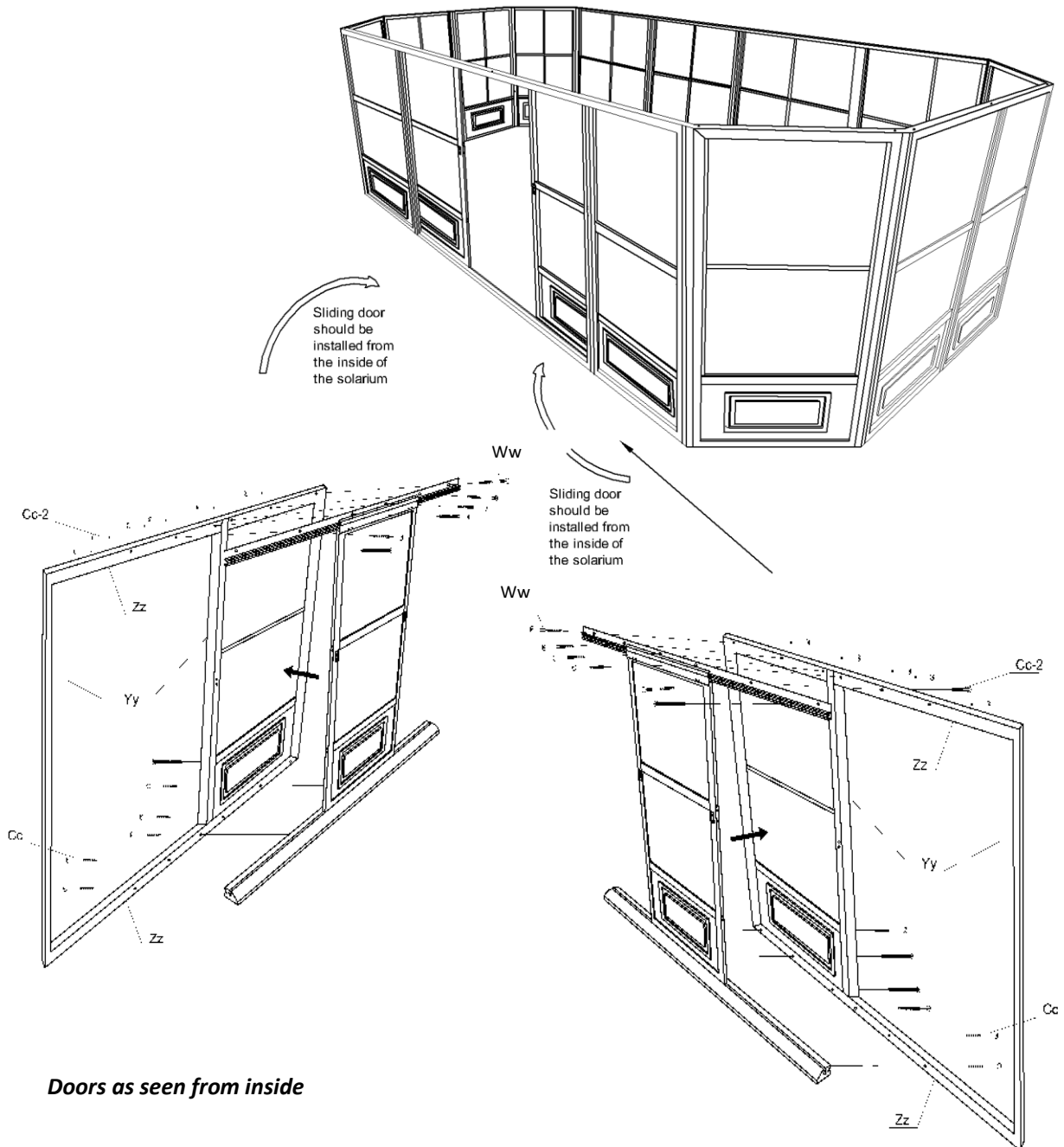
**Step 2:**

1. Place a bolt (Ww) and washer (Gg) through the top door rail (F) and door frame, and a female bolt (Cc-2) from the other side. Once all are inserted, tighten them all securely.
2. Secure bottom door rail (G), using a bolt (Cc) and washer (Gg).



**Step 3: Please note the sliding door should be installed from the inside of the solarium.**

1. Attach the door wheels into the top of door rail (F) of the sliding door (C).
2. Attach the plastic piece into the bottom door rail (G) of the sliding door (C).
3. Use bolt (Bb) to affix the plastic stoppers (H), one on each end of the top door rail (F).
4. Then use screw (Oo) to affix the upper door rail end caps (Nn) one at each end of top rail (F).
5. The other side of top rail (F) is same as above step.



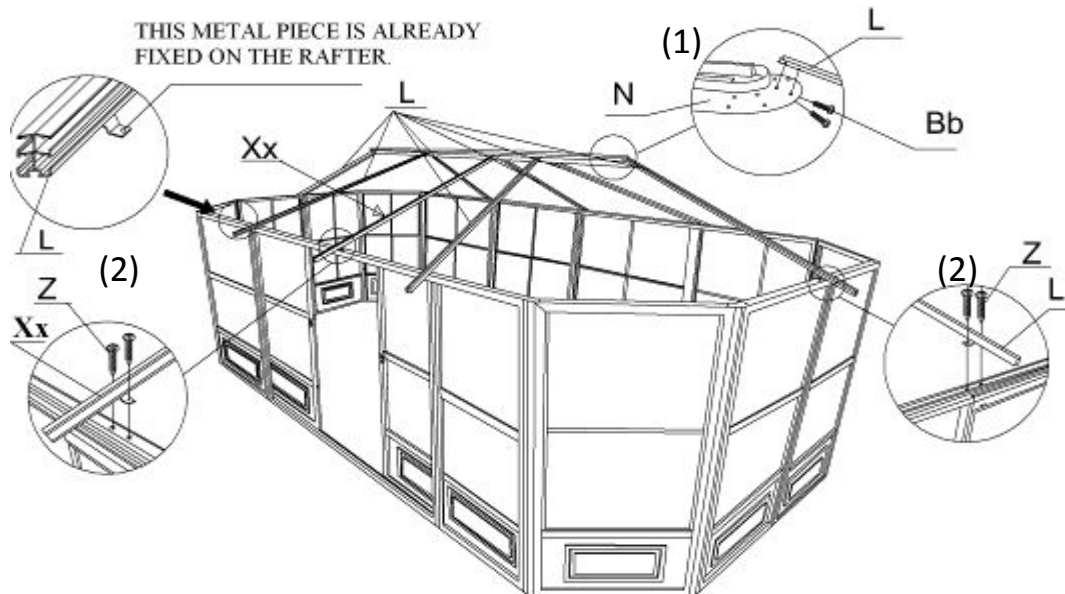
***Doors as seen from inside***

***Repeat steps 2 and 3 for the second door.***

**Step 4:**

1. Attach roof rafters (L) to the central hub (N) using bolt (Bb). (Caution: hub may be heavy, use support if needed)
2. Use screws (Bb) attached to brackets to affix the roof rafter (Xx) onto the top of the middle of the door panel.
3. Use screw (Z) to affix the other rafters (L) onto the top of panels going through the metal piece attached to the rafter (L).

**Note:** Rafters must be affixed where panels connect to each other.

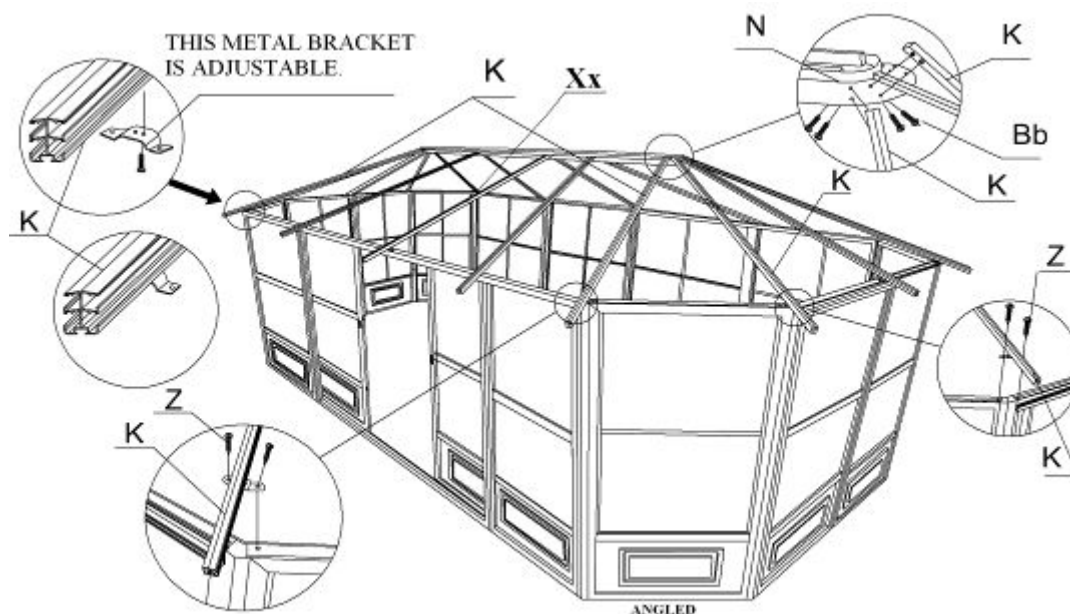


**Step 5:**

Use the same method to assemble roof rafters (K) for the angled panels. The metal piece affixed to the rafter (K) is adjustable, choose one hole to affix the rafter (K) to the top of the panel.

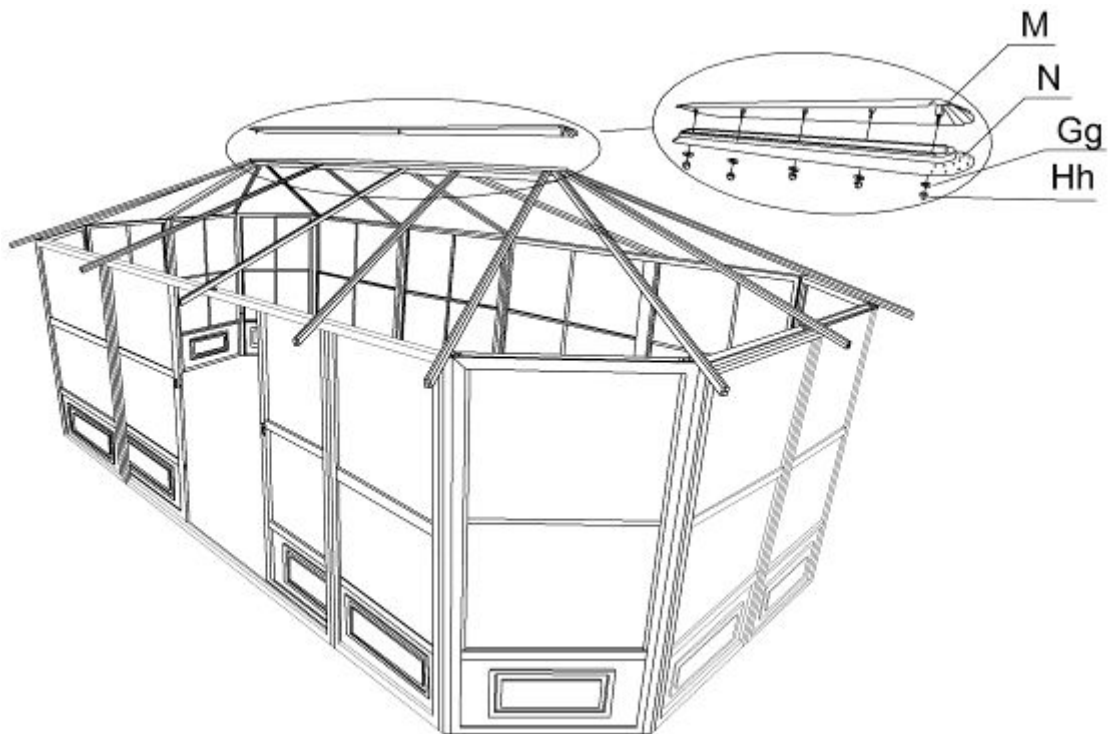
**Note:** 1) The K Rafter has 1 bracket with 2 holes. Attach roof with 1 screw when installing on top of the frames. Make sure that extra hole on bracket remains on the side of angled panel (at the corner). Then screw it to frames with screws (Z).

2) Do not tighten the bolts right away as you may have to adjust the angle when inserting the PC roof panels.



**Step 6:**

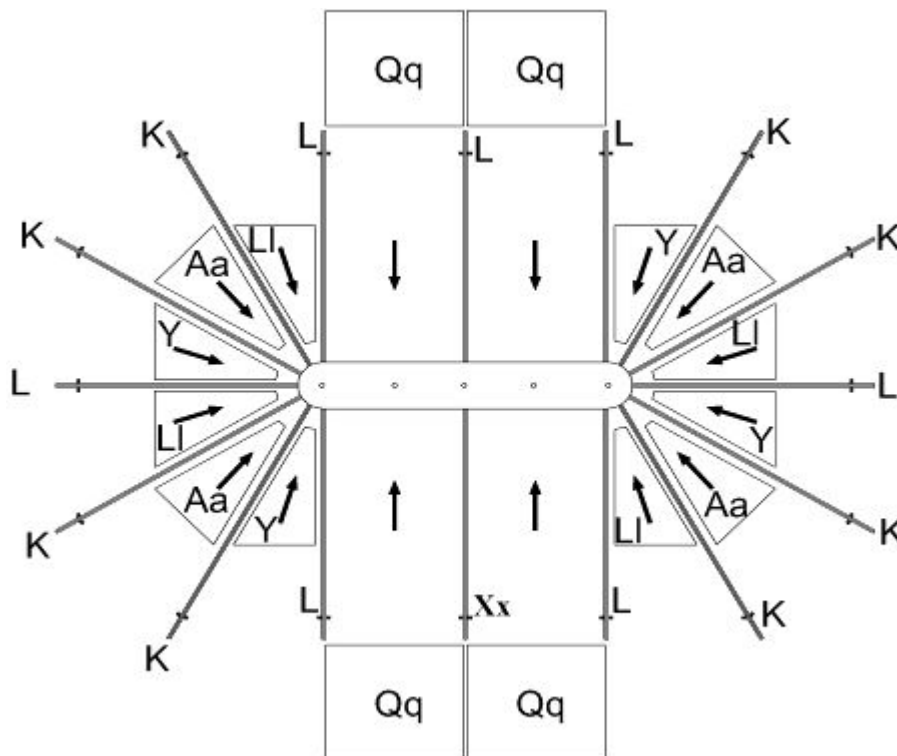
Use nut (Hh) and washer (Gg) to affix the top cap (M) to the central hub (N).



**Step 7:**

First remove the protective layer from the PC panels, then insert them (Y, Aa, Ll, Qq) between the roof rafters according to the below drawing instructions.

**Note:** the side that had the protective layer should be face down.



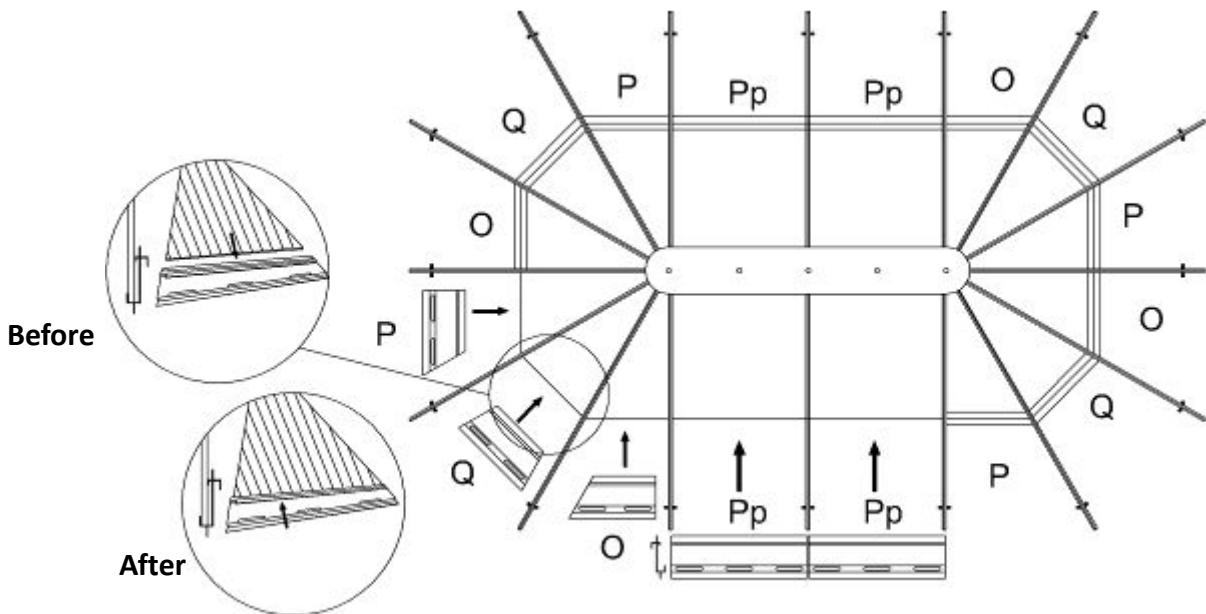
**TOP VIEW**

**Step 8:**

After inserting the upper PC panels, insert the aluminum middle roof joints (O, P, Q, Pp) into the roof rafters. The below drawing view is from inside the solarium looking up.

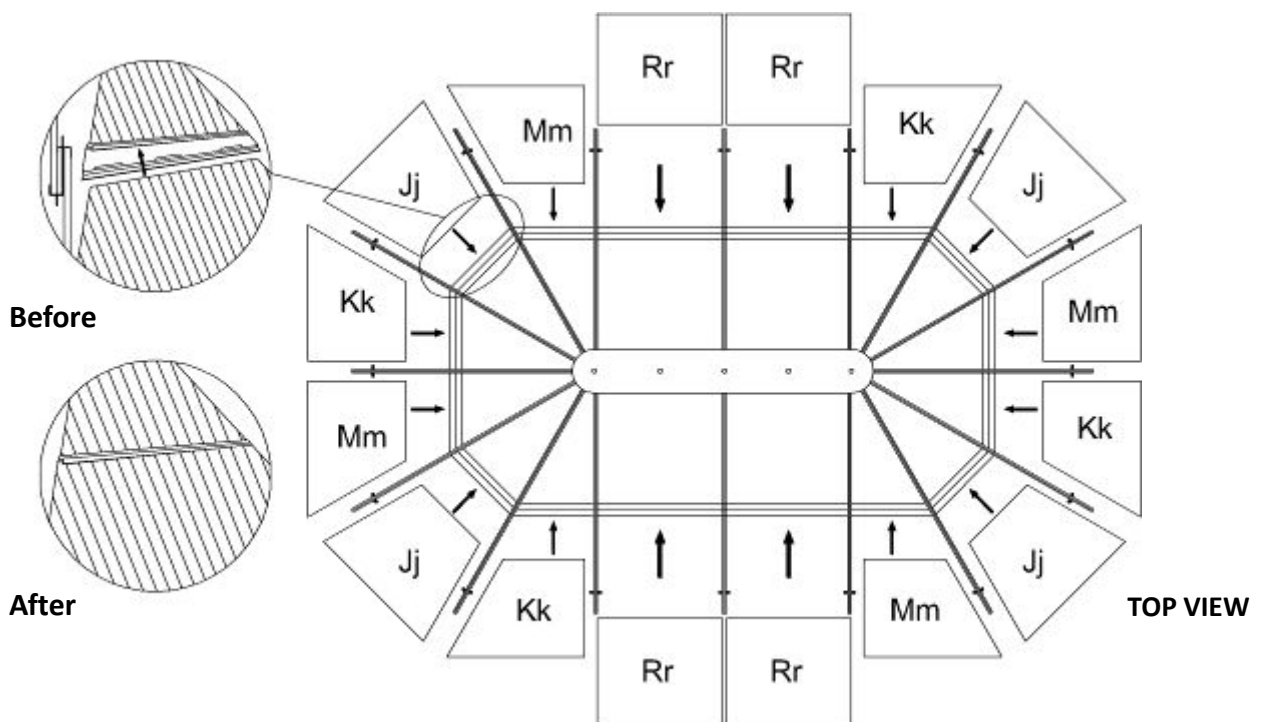
**Notes:**

- The drain holes on the aluminum middle roof joints (O, P, Q, Pp) should be at the bottom.
  - To adjust the middle joints to line up : once all polycarbonate roof panels are in place, use a small piece of wood and hammer, then tap down on the middle of the joint bringing it down and holding at the same time the joint and top polycarbonate.
- Do not tap too hard.



**Step 9:**

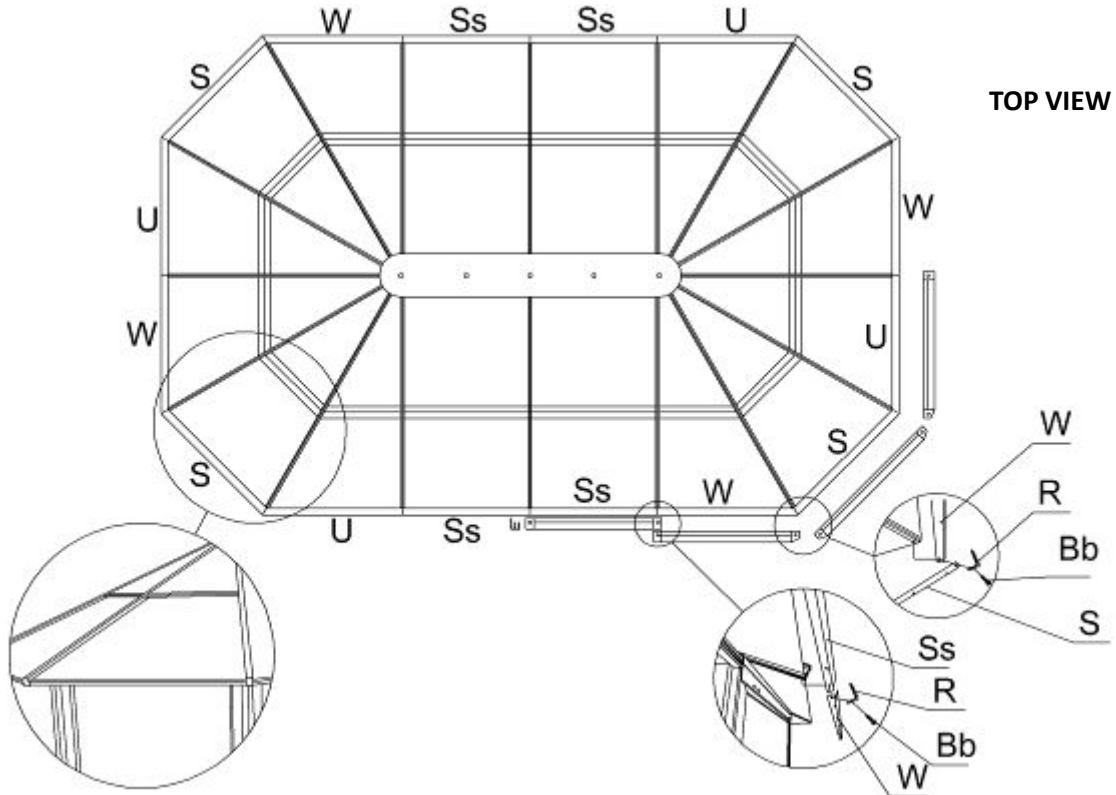
After the installation of the middle roof joints complete, insert the bottom PC roof panels (Jj, Kk, Mm, Rr) according to below drawing instructions. They should overlap about two inches under the upper PC roof panels and into the aluminum middle joints.





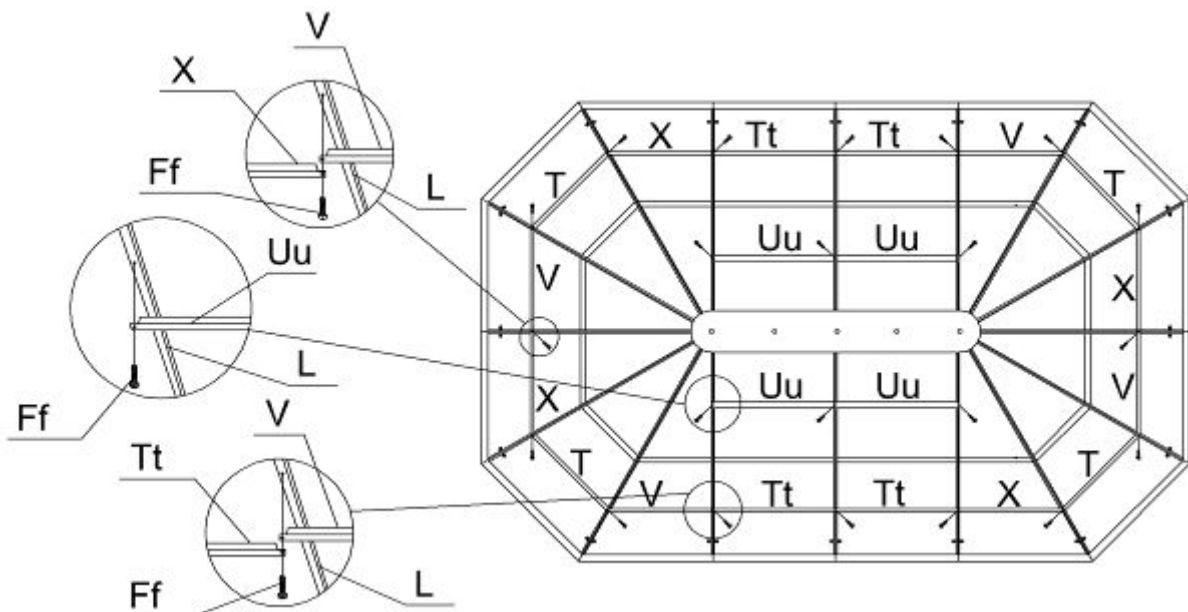
**Step 10:**

Once the PC roof is complete, use aluminum edging (S, U, W, Ss) to surround the edges of the PC roof, using bolt (Bb) and rafter cap (R), tighten securely.



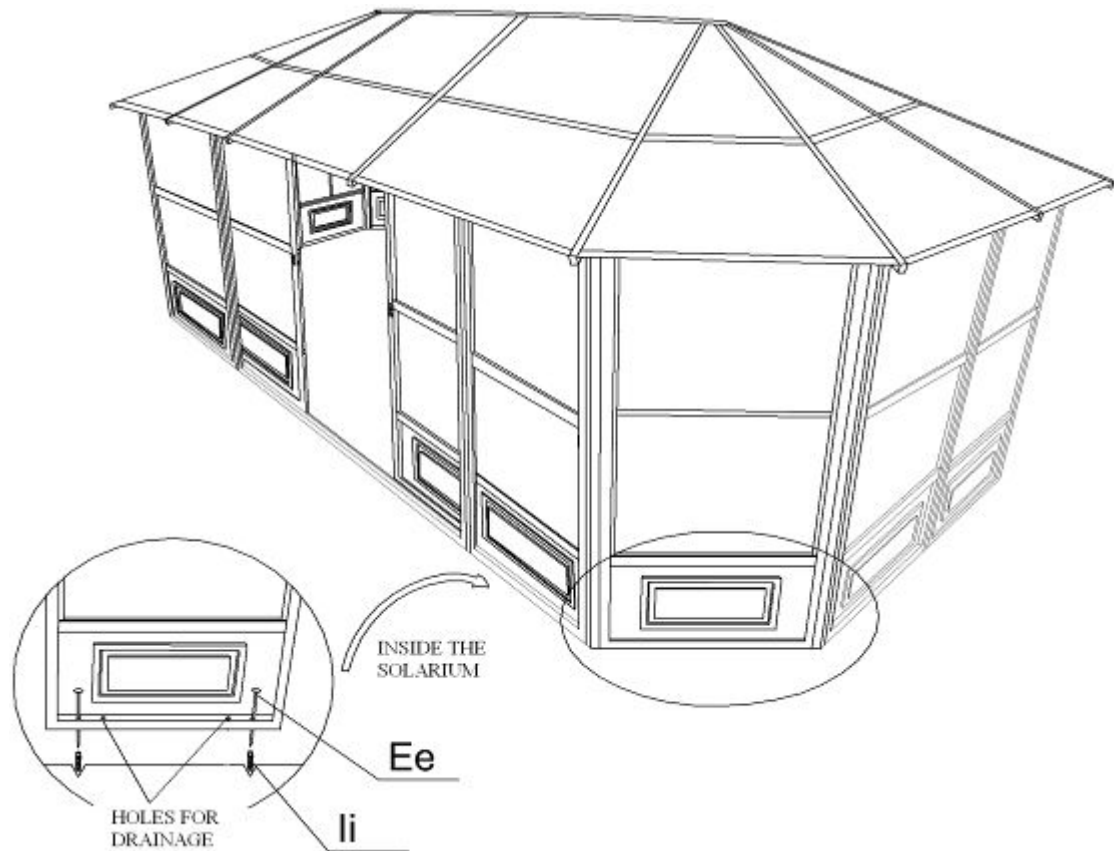
**Step 11:**

Once the installation of the edging complete, start affixing the roof cross bars (T, V, X, Tt) using bolt (Ff). Affix the top cross bars (Uu) onto the roof rafter (L) using bolt (Ff).



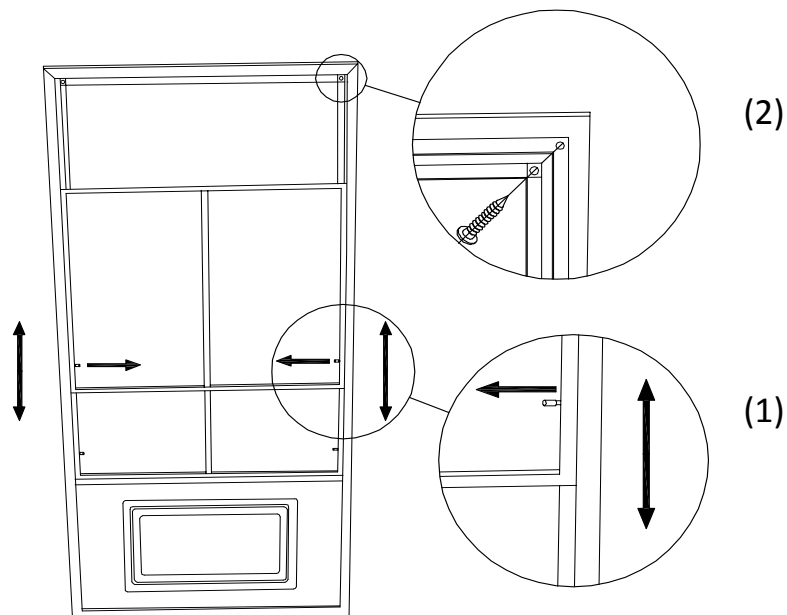
**Step 12:**

Inside each of the panels (A, B), push two plastic plugs (li) into the ground, and then screw down the panels using two screws (Ee) for each panels.

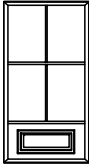
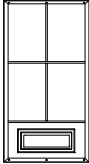
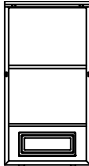
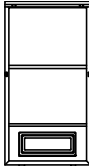

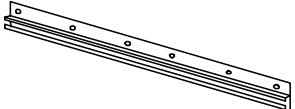
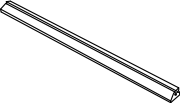
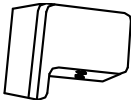
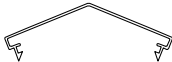
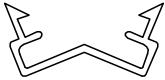


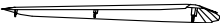



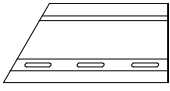
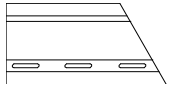
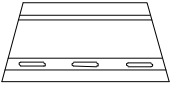
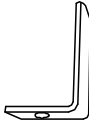

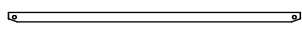

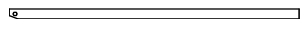
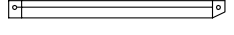

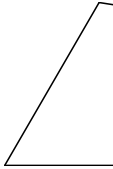
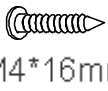
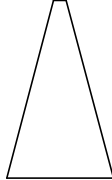
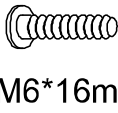
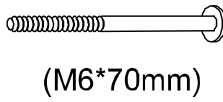
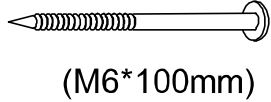
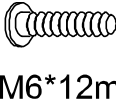

**Special notes:**



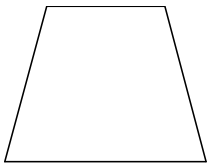
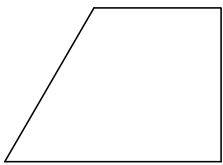
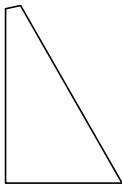
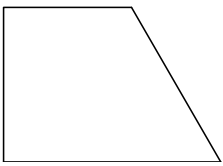

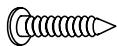
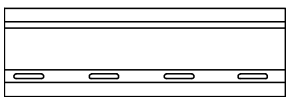




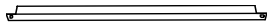
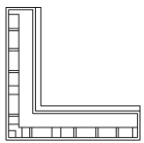

1. To remove windows (08-219), pull 1 pin out of the lock position and push the frame to the end of the track, then ease the window out of the tracks one side at a time.
2. To remove screening panel, first remove windows, then unscrew the 2 screws at the top corners of the screen frame.
3. Note that this unit is not waterproof. For best protection against rain, close the windows of each frame with the outside window in the center, and the inside window at the top.



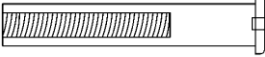





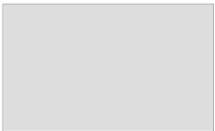


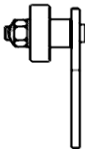



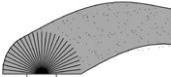
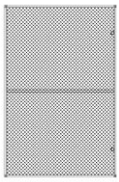
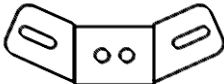
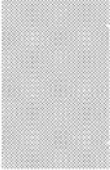
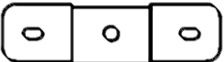

### 41218-12 SAND PARTS LIST

DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-129-12 REGULAR FRAME A	3	8		08-130-12 FRAME NEXT TO DOOR B	2	2	
	2	4					
08-159-12 REGULAR SLIDING DOOR C	2	1		08-160-12 SLIDING DOOR WITH RECEIVER CHANNEL D	2	1	
08-133-12 CONNECTING PIECE E Length 200.6 cm	5	14		08-162-12 TOP DOOR RAIL F Length 208 cm	4	2	
08-163-12 BOTTOM DOOR RAIL G Length 205.6 cm	4	2		08-138-12 PLASTIC STOPPER H	5	4	
08-139-12 135° ANGLED OUTSIDE CONNECTOR I Length 200.6 cm	4	8		08-140-12 135° ANGLED INSIDE CONNECTOR J Length 200.6 cm	4	8	
08-141-12 ROOF RAFTER K Length 239.7 cm	4	8		08-142-12 ROOF RAFTER L Length 211 cm	4	7	
08-164-12 TOP CAP M	4	1		08-166-12 CENTRAL HUB N	4	1	

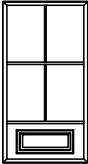
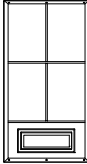
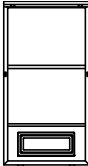
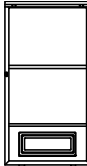

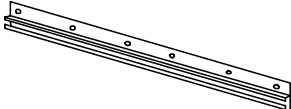
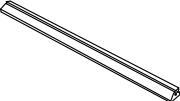
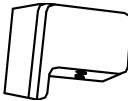
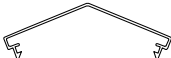
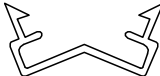




DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-145-12 MIDDLE ROOF JOINT O	5	4		08-146-12 MIDDLE ROOF JOINT P	5	4	
08-147-12 MIDDLE ROOF JOINT Q	5	4		08-148-12 ROOF RAFTER CAP R	5	16	
08-149-12 EDGING S Length 120.6 cm	5	4		08-150-12 ROOF CROSS BAR T Length 94.5 cm	5	4	
08-151-12 EDGING U Length 120.6 cm	5	4		08-152-12 ROOF CROSS BAR V Length 94.4 cm	5	4	
08-153-12 EDGING W Length 120.6 cm	5	4		08-154-12 ROOF CROSS BAR X Length 94.4 cm	5	4	
08-155 (24 1/4"x42 1/4") TOP ROOF LEFT PANEL Y	1	4		08-156-12 SCREW Z (M4*16mm)	5	64	
08-157 (24 1/2"x46 1/2") TOP ROOF CORNER PANEL Aa	1	4		08-158-12 BOLT Bb (M6*16mm)	5	76	
08-161-12 BOLT Cc (M6*70mm)	5	12		08-167-12 SCREW Ee (M6*100mm)	5	28	
08-168-12 BOLT Ff (M6*12mm)	5	24		08-187 WASHER Gg	5	45	

DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-189-12 ACORN NUT Hh	5	5		08-193 PLASTIC PLUG Ii	4	28	
08-195 (47"x47 1/2") BOTTOM ROOF CORNER PANEL Jj	1	4		08-196 (46 1/4"x43") BOTTOM ROOF LEFT PANEL Kk	1	4	
08-197 (24 1/4"x42 1/2") TOP RIGHT ROOF PANEL Ll	1	4		08-198 (46 1/4"x43") BOTTOM ROOF RIGHT PANEL Mm	1	4	
08-134-12 UPPER DOOR RAIL END CAP Nn	5	2		08-135-12 SCREW Oo (M4*12mm)	5	36	
08-170-12 MIDDLE ROOF JOINT Pp	5	4		08-172 (41 1/4"x42 1/4") TOP ROOF CENTER PANEL Qq	1	4	
08-171 (41 1/4"x43") BOTTOM ROOF CENTER PANEL Rr	1	4		08-173-12 EDGING Ss Length 108 cm	5	4	
08-174-12 ROOF CROSS BAR Tt Length 108 cm	5	4		08-175-12 TOP ROOF CROSS BAR Uu Length 108 cm	5	4	
11-599 CORNER KEY Vv (INSTALLED IN Yy)	2	4		08-192-12 ROOF RAFTER ON THE MIDDLE OF THE DOOR Xx Length 111 cm	4	1	

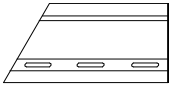
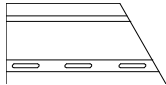
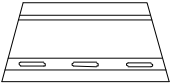

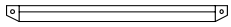
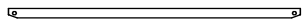
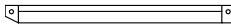
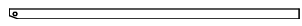
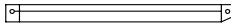
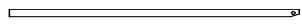
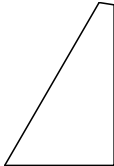

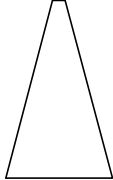
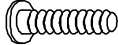
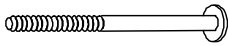
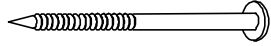
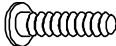

DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
11-597-12 VERTICAL DOOR FRAME Yy Length 200 cm	2	2		11-598-12 HORIZONTAL BAR FOR DOOR FRAME Zz Length 106.14 cm	2	2	
12-037-12 FEMALE BOLT Cc-2	5	12	 M5*60mm	12-047-12 BOLT Ww	5	12	 <b>(M5*15mm)</b>
11-623 EXTRA SINGLE DOOR			AVAILABLE PLEASE CALL				



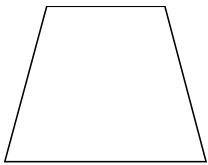
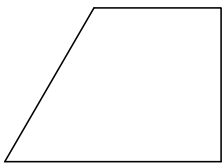
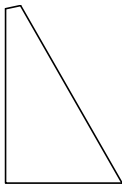
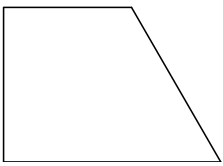

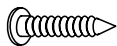
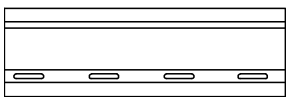




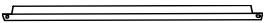
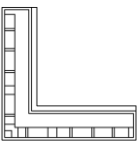

AVAILABLE REPLACEMENT PARTS			
DESCRIPTION	DRAWING	DESCRIPTION	DRAWING
08-219-12 PVC WINDOW (in frame)		11-572-12 BOTTOM PLASTIC PANEL (for wall panels)	
10-493 PVC WINDOW (replacement material only)		11-823-12 BOTTOM PLASTIC PANEL (for double doors)	
85-417-P ROUND SPLINE FOR PVC WINDOW		15-097-12 DOOR WHEEL ASSEMBLY	
15-123-12 PIN FOR PVC WINDOW		11-736-12 RECEIVER CHANNEL FOR DOUBLE DOOR	
13-054 PC WINDOW (for double door)		10-458 REPLACEMENT WEATHERSTRIP	
12-046-12 MOSQUITO SCREEN (in frame)		15-124-12 MOUNTING BRACKET FOR RAFTER (K)	
85-014 REPLACEMENT SCREENING (no frame)		15-125-12 MOUNTING BRACKET FOR RAFTER (L)	
85-417-S ROUND SPLINE FOR SCREENING			



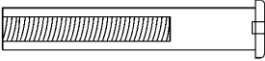

### 41218-32 SAND PARTS LIST

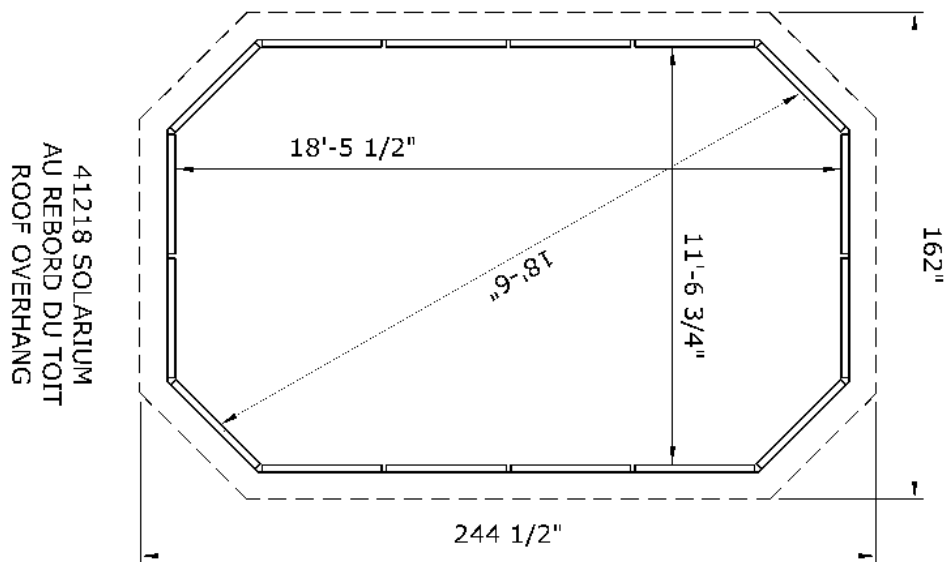
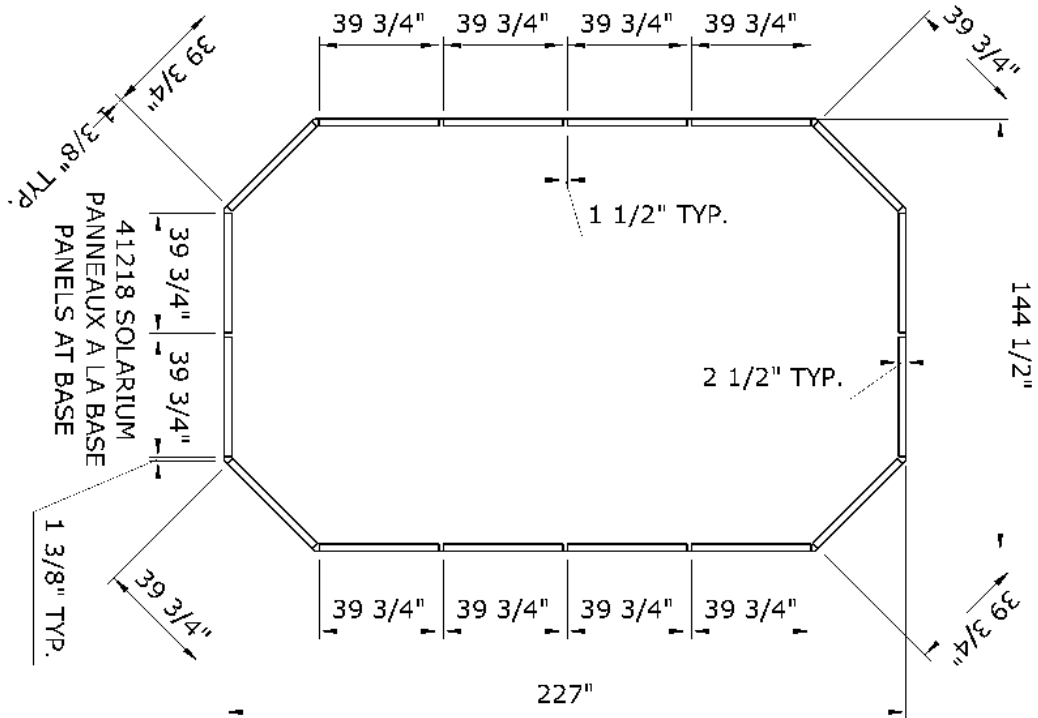
DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-129-32 REGULAR FRAME A	3	8		08-130-32 FRAME NEXT TO DOOR B	2	2	
	2	4					
08-159-32 REGULAR SLIDING DOOR C	2	1		08-160-32 SLIDING DOOR WITH RECEIVER CHANNEL D	2	1	
08-133-32 CONNECTING PIECE E Length 200.6 cm	4	14		08-162-32 TOP DOOR RAIL F Length 208 cm	4	2	
08-163-32 BOTTOM DOOR RAIL G Length 205.6 cm	4	2		08-138-32 PLASTIC STOPPER H	5	4	
08-139-32 135° ANGLED OUTSIDE CONNECTOR I Length 200.6 cm	4	8		08-140-32 135° ANGLED INSIDE CONNECTOR J Length 200.6 cm	4	8	
08-141-32 ROOF RAFTER K Length 239.7 cm	4	8		08-142-32 ROOF RAFTER L Length 211 cm	4	7	
08-164-32 TOP CAP M	4	1		08-166-32 CENTRAL HUB N	4	1	



DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-145-32 MIDDLE ROOF JOINT O	6	4		08-146-32 MIDDLE ROOF JOINT P	5	4	
08-147-32 MIDDLE ROOF JOINT Q	5	4		08-148-32 ROOF RAFTER CAP R	5	16	
08-149-32 EDGING S Length 120.6 cm	5	4		08-150-32 ROOF CROSS BAR T Length 94.5 cm	5	4	
08-151-32 EDGING U Length 120.6 cm	5	4		08-152-32 ROOF CROSS BAR V Length 94.4 cm	5	4	
08-153-32 EDGING W Length 120.6 cm	5	4		08-154-32 ROOF CROSS BAR X Length 94.4 cm	5	4	
08-155 (24 1/4"x42 1/4") TOP ROOF LEFT PANEL Y	1	4		08-156-32 SCREW Z	5	64	 (M4*16mm)
08-157 (24 1/2"x46 1/2") TOP ROOF CORNER PANEL Aa	1	4		08-158-32 BOLT Bb	5	76	 (M6*16mm)
08-161-32 BOLT Cc	5	12	 (M6*70mm)	08-167-32 SCREW Ee	5	28	 (M6*100mm)
08-168-32 BOLT Ff	5	24	 (M6*12mm)	08-187 WASHER Gg	5	45	

DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
08-189-32 ACORN NUT Hh	5	5		08-193 PLASTIC PLUG Ii	4	28	
08-195 (47"x47 1/2") BOTTOM ROOF CORNER PANEL Jj	1	4		08-196 (46 1/4"x43") BOTTOM ROOF LEFT PANEL Kk	1	4	
08-197 (24 1/4"x42 1/2") TOP RIGHT ROOF PANEL Ll	1	4		08-198 (46 1/4"x43") BOTTOM ROOF RIGHT PANEL Mm	1	4	
08-134-32 UPPER DOOR RAIL END CAP Nn	5	2		08-135-32 SCREW Oo (M4*12mm)	5	36	
08-170-32 MIDDLE ROOF JOINT Pp	5	4		08-172 (41 1/4"x42 1/4") TOP ROOF CENTER PANEL Qq	1	4	
08-171 (41 1/4"x43") BOTTOM ROOF CENTER PANEL Rr	1	4		08-173-32 EDGING Ss Length 108 cm	5	4	
08-174-32 ROOF CROSS BAR Tt Length 108 cm	5	4		08-175-32 TOP ROOF CROSS BAR Uu Length 108 cm	5	4	
11-599 CORNER KEY Vv (INSTALLED IN Yy)	2	4		08-192-32 ROOF RAFTER ON THE MIDDLE OF THE DOOR Xx Length 111 cm	4	1	

DESCRIPTION	PACKED IN BOX	QTY	DRAWING	DESCRIPTION	PACKED IN BOX	QTY	DRAWING
11-597-32 VERTICAL DOOR FRAME Yy Length 200 cm	2	2		11-598-32 HORIZONTAL BAR FOR DOOR FRAME Zz Length 106.14 cm	2	2	
12-037-32 FEMALE BOLT Cc-2	5	12	 M5*60mm	12-047-32 BOLT Ww	5	12	 <b>(M5*15mm)</b>
11-623 EXTRA SINGLE DOOR			AVAILABLE PLEASE CALL				



## MAINTENANCE NOTES

1. In case of a defective or damaged part, or for any other questions concerning the product, please contact the manufacturer directly.
2. Please have the parts list and part numbers on hand when ordering or requesting replacement parts.
3. The product should not be installed adjacent to trees or a sloped roof. Snow and ice may slide onto the roof and cause it to collapse.
4. While the product is designed for 4 seasons use, the roof must be kept free of accumulation of snow.



## ONE YEAR LIMITED WARRANTY

This product has been designed and manufactured to meet the highest standards of quality and durability. Subject to the Conditions for Exercising the Warranty and the Limitations on the Warranty set forth below, it is warranted to be free of material and manufacturing defects for a period of **one year** from the date of purchase. Should the product become damaged, or the warranty period has expired, please contact Gazebo Penguin Customer Service Department for a complete schedule of replacement parts and prices.

## CONDITIONS FOR EXERCISING THE WARRANTY

The warranty only applies to the original purchaser with the bill.

In order to properly exercise your warranty, please comply with the following:

Carefully inspect the contents of the carton for missing or damaged components. Should you discover damaged or missing parts, **do not return the product to the place of purchase**, but contact Gazebo Penguin Customer Service Department at the numbers listed below:

**Montreal:** (514) 276-3485

**Elsewhere:** 1-800-737-7174

You can also find a claim form to fill out online :

<http://www.abrispenguin.com/forms.html>

**NOTE: Damages/missing parts must be reported within 30 days of delivery.**

## LIMITATIONS ON THE WARRANTY

1. The product is not warranted against damages due to vandalism, abuse, falling or thrown objects, or accumulation of snow.
2. The product is not warranted against damages due to extreme weather conditions, such as thunderstorms, hail, strong wind or snow storms, or any other acts of God.
3. The product is only warranted in the event it is installed in accordance with the Gazebo Penguin's written instructions enclosed with the product.
4. The product is not warranted in the event it has been improperly anchored.
5. We reserve the right to replace or repair any defective product or parts at our discretion.