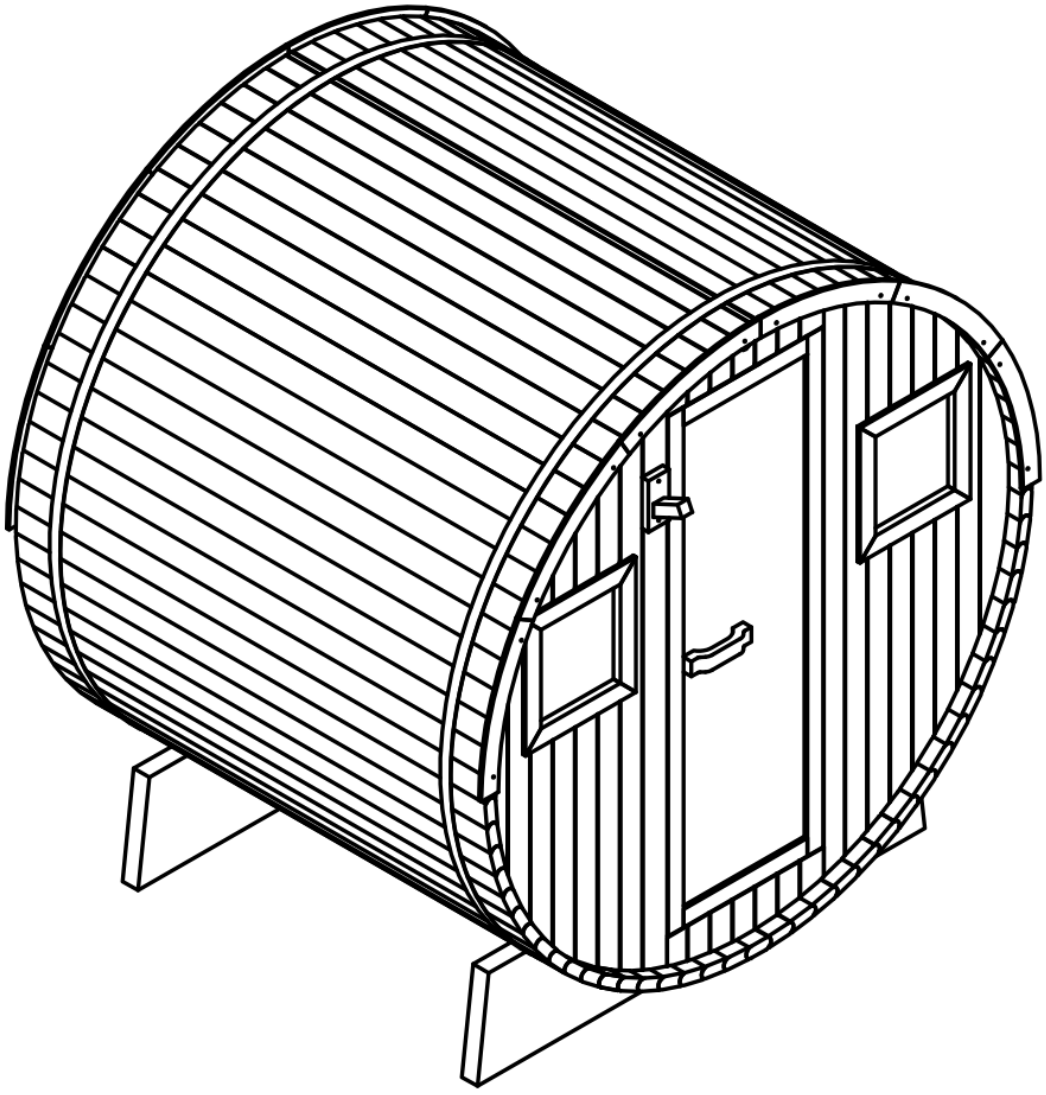
REDWOOD
OUTDOORS

Extra-Wide Barrel Sauna



(SN-BEW-T6)
(SN-EBU-H6K002F)

Installation & Owner's Manual

Important Information

Safety and Assembly

Please read and understand the complete instructions prior to assembly and use of your sauna. The customer agrees not to hold Redwood Outdoors or any of its authorized dealers liable for improper installation, maintenance, and repair of this product.

Our sauna kits are designed for ease of assembly and every attempt has been made to make assembly information as clear as possible. If you have any questions about assembly, please do not hesitate to call us at 1800-567-8036 or send us an email at **support@redwoodoutdoors.com.**

Thank you again for choosing Redwood Outdoors. We are grateful for your business and know you will have many years of enjoyment in your sauna!

Electrical Requirements

All electrical heater wiring must be performed by **A QUALIFIED LICENSED ELECTRICIAN.**
Use copper wire with 90C insulation. Do not use aluminum wire to make the connection. Consult with an electrician so you can determine the requirements for your situation. All wiring must conform to all national, state, and local codes and regulations. For further information and instructions on your heater installation and operation, please consult the heater manuals on our website.
(**www.redwoodoutdoors.com/assembly/electric-sauna-heaters**).

Choose a Site With a Strong and Level Foundation

It is important to choose a site that has a level, strong, and stable foundation. This is critical because a sauna with several bathers inside can weigh over 1,000 lbs. A deck or concrete pad (patio) are both excellent options for your sauna. If you will be placing the sauna directly on the ground, we recommend you rest the support cradles atop concrete pavers to prevent the cradles from settling into the ground. This could result in the sauna not sitting level and may cause issues over time. If your sauna comes with a ground-frame rather than cradles, we recommend installing a moisture barrier under the ground-frame.

Concrete Pads

If constructed properly (compacted well and leveled), a concrete pad will maximize the life of your sauna. The concrete pad should be at least 4” thick and reinforced with mesh to minimize cracking. We recommend constructing the pad significantly larger than needed for the sauna alone, as this will allow room for a cool down area, where you could put chairs and an outdoor shower or cold plunge tub. There is a wealth of information available online with instructions on how to design and pour a concrete pad.

Deck Installations

If you choose to install your sauna on a deck, be sure that your deck has been designed to support the weight of a full sauna (over 1,000 lbs). We recommend you have the deck inspected by a qualified architect or building engineer prior to proceeding.

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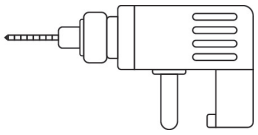
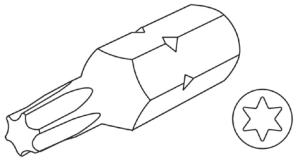
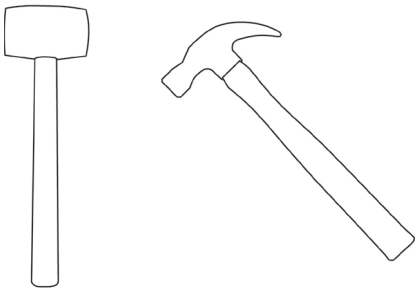
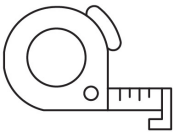
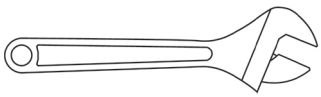
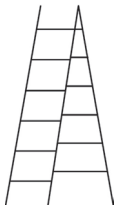
Installation & Owner's Manual

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Required Tools

You will need the following tools to assemble the sauna:

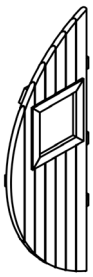
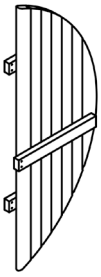
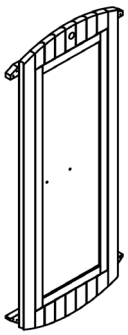
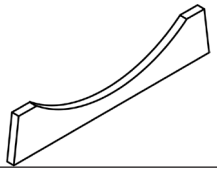
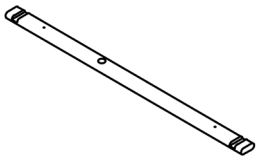
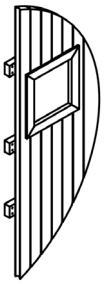
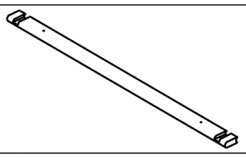
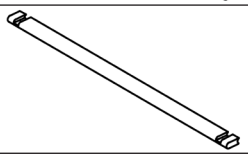
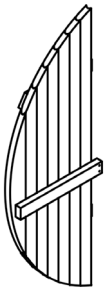
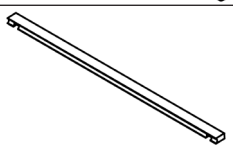
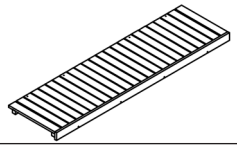
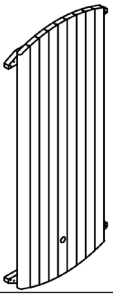
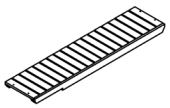
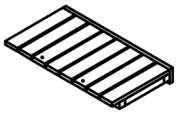
	Power drill
	Torx drill bit
	Spirit level
	Hammer & rubber mallet
	Tape measure
	Crescent wrench
	Ladder
	Gloves

Parts List

We are constantly working to improve our products. As a result of ongoing design improvement, the sauna you receive may vary slightly from the description below. + symbol indicates spare pieces. (e.g. +1 means 1 spare)

When you open the crate, if any parts are damaged, take pictures of the damage (ideally while still in the crate). Email the pictures as well as a list of which parts are damaged (e.g., 2-B, 18, etc.) to our Customer Support team (support@redwoodoutdoors.com). Our Customer Service team will assist you with next steps.

● Main Parts

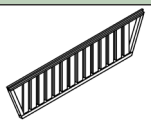
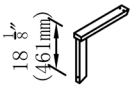
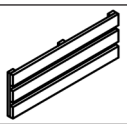
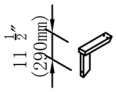
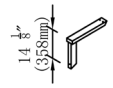
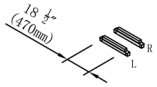
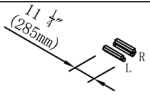
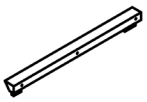
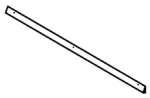
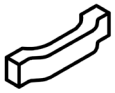
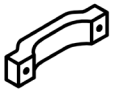
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1-A		1PC	6		1PC
2-C		1PC	7		2PCS
			8		1PC
3-A		1PC	9		14PCS
			10		58PCS+1
4		1PC	11		2PCS
			12-A		1PC
5		1PC	13-B		1PC
			14-A		1PC

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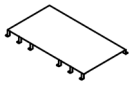
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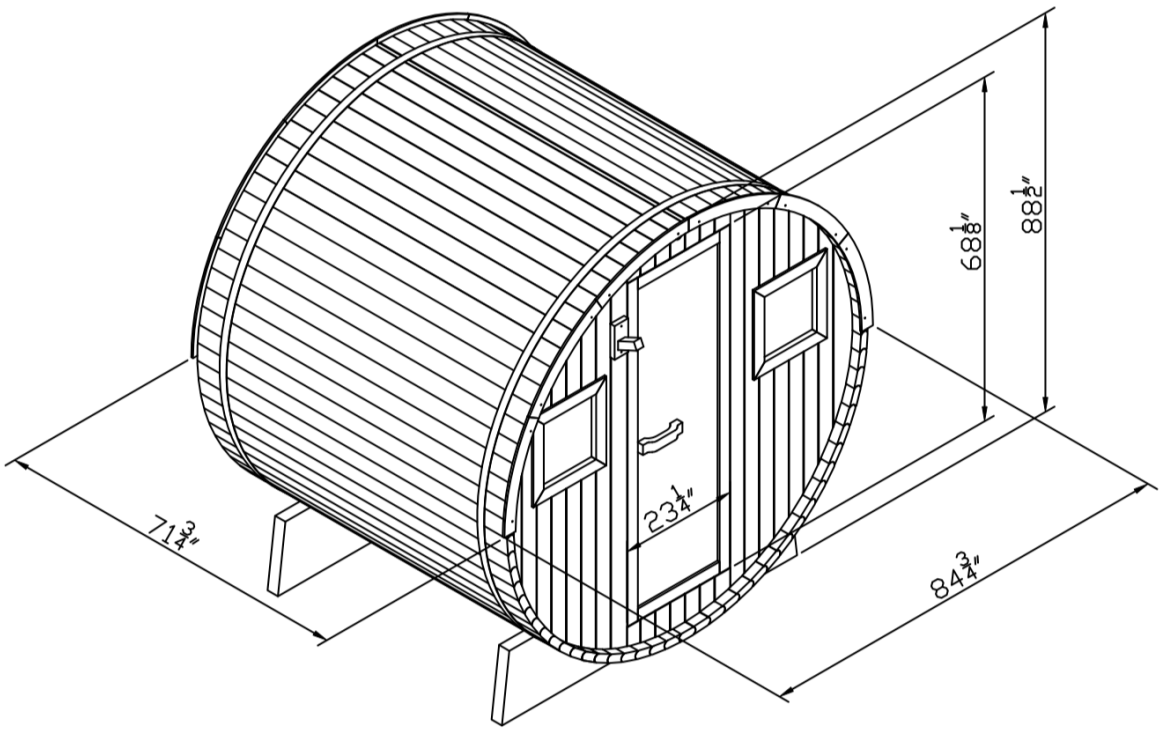
Part	Description	Qty	Part	Description	Qty
15-B		1PC	25-A		1PC
16-A		1PC	26-B		2PCS
17	Intentionally blank		27-B		2PCS
18	Intentionally blank		28-B		2PCS
19-A		1PC	29-B		2PCS
20-A		1PC	30-B		1PC
21-A		4PCS	31	Intentionally blank	
22		1PC	32		12PCS
23		1PC	33		1PC
24		2PCS	34-C		1PC
			35-A		1PC

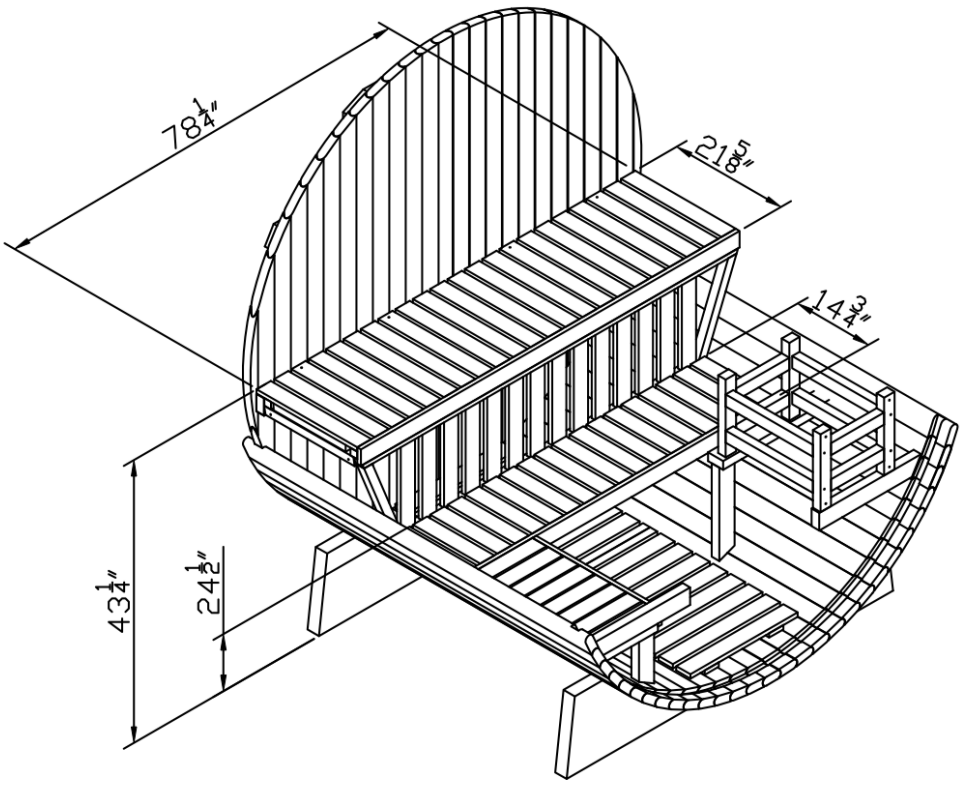
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● Accessories

Part	Description	Qty	Part	Description	Qty
A	 #4x$\frac{5}{8}$" (3x16mm)	12PCS+3	M	 Φ$\frac{3}{4}$"x1$\frac{1}{2}$" (Φ20x40mm)	4PCS
B	 #8x1$\frac{1}{4}$" (4x30mm)	24PCS+6	N	 $\frac{3}{8}$" (M10)	4PCS
C	 #8x$\frac{3}{4}$" (4x20mm)	60PCS	O	 $\frac{3}{8}$" (M10)	4PCS
D	 #8x1$\frac{3}{8}$" (4x35mm)	4PCS+1	P	 $\frac{3}{8}$" (M10)	4PCS
E	 #8x1$\frac{1}{2}$" (4x40mm)	18PCS+2	Q	 2" (50mm)	50PCS
F	 #8x2$\frac{1}{2}$" (4x60mm)	99PCS+6	R		1PC
G	 #10x2$\frac{3}{4}$" (5x70mm)	15PCS+5	S	Intentionally blank	
H	 #12x2$\frac{1}{2}$" (6x60mm)	4PCS	T	Intentionally blank	
I	 #12x2" (6x50mm)	2PCS	U		1PC
J		2PCS	V		3BAGS
K	$\frac{3}{8}$"x13" (M10x330mm)	2PCS	W	 130"x70$\frac{7}{8}$" 3300x1800mm	1PC
L	 Φ1$\frac{3}{8}$"x1$\frac{1}{2}$" (Φ35x40mm)	4PCS			

Dimensions

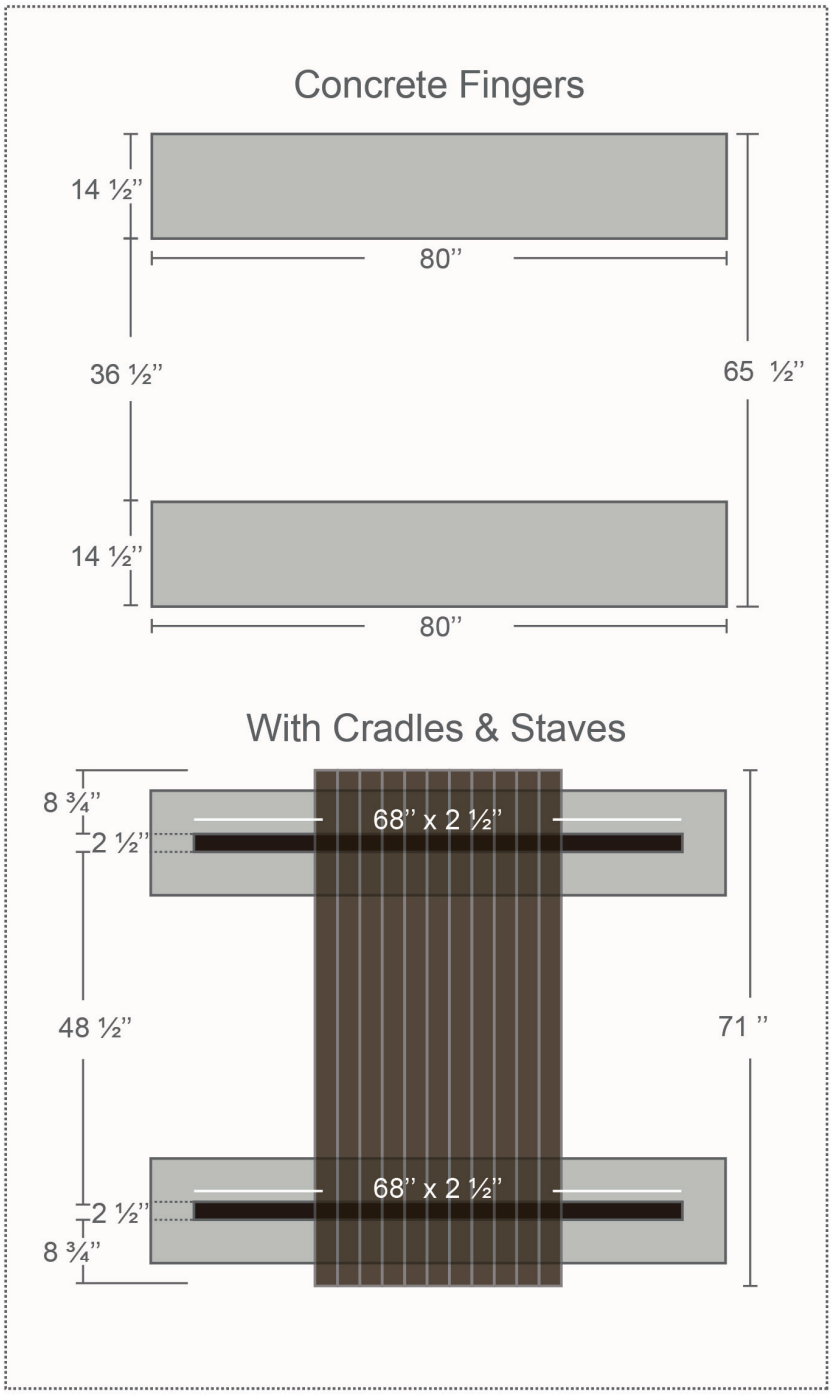




Concrete Fingers

Instead of pouring a full-sized concrete pad for their sauna, some customers prefer to pour concrete “fingers” for the cradles to sit on. The fingers must be poured to accommodate the cradle’s size and spacing. Illustrative cradle and finger dimensions are below.

Wood is a natural product that swells and shrinks. As a result, part sizes can vary between units. If you are pouring concrete fingers, we recommend a minimum 6-inch buffer on all sides. The fingers should be larger than the cradle on all sides to make assembly easier.





Concrete Finger: 80” x 14 ½”



Cradles: 68” x 2 ½”



Staves: 71” x 3 ¾”

Base Assembly

Step 1: Assemble the Base

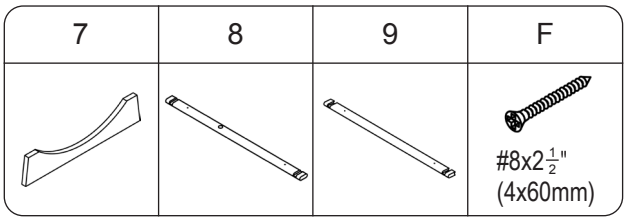
Lay your cradles on the foundation. The wooden cradles are painted black to provide additional protection against water.

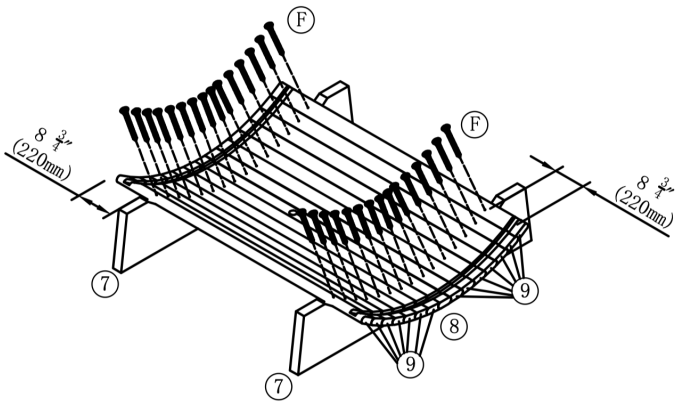
Ensure the cradles are level. The cradles must be evenly spaced and parallel. Make sure the cradles are parallel by measuring from corner to corner.

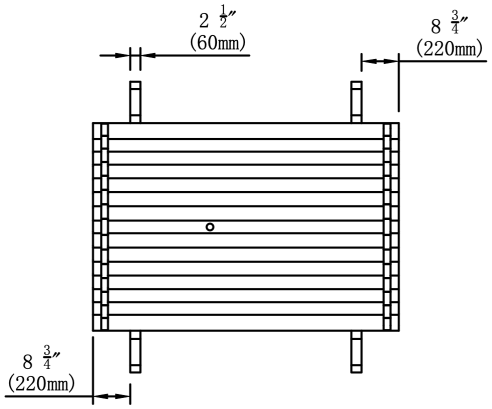
Lay the drain stave across the center point of the cradles. The drain hole will be at the back of your sauna. The end of the stave should extend 8 ¾” past the cradles on both edges (the cradles should align with the staves' pre-drilled holes). Ensure your cradle does not block the drain hole. Fasten the drain stave to the cradles.

Unpack all staves from the crate before starting. The #9 staves have predrilled holes to make fastening to the cradles easier. The #9 staves may be at the bottom of your crate. Ensure you locate and use these staves (otherwise they will end up on your roof!).

Fill the cradles to the edge with staves. As you lay the staves, tap them into place using a rubber mallet to ensure a snug fit. Ensure the groove cut for the front and back walls (“dado cut”) aligns and that the ends of the staves are flush. Fasten the rest of the base staves to the cradles.





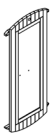


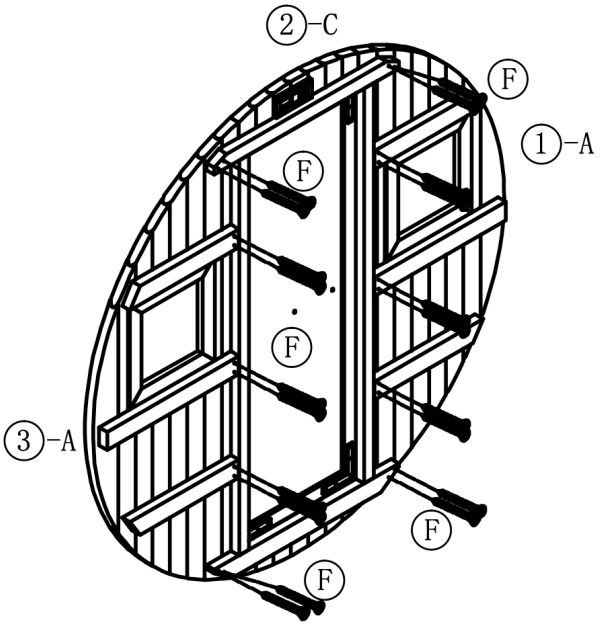
Wall Assembly

Step 2: Assemble the Front Wall

The front wall is divided into three pieces. Lay the three pieces out on a flat surface and fasten the three pieces together. Ensure that the edges of the wall are flush and form a circle.

There is a cord wrapped around the door to prevent movement, **do not remove it until the front wall is in the dado cut.**

1-A	2-C	3-A	F
			 #8x2½" (4x60mm)



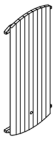
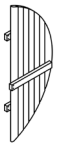
Wall Assembly

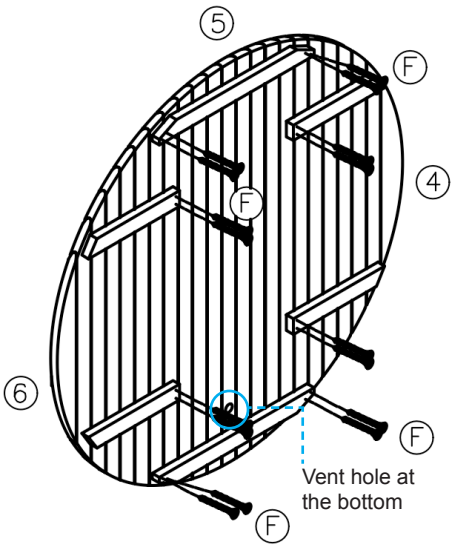
Step 3: Assemble the Back Wall

The back wall is divided into three pieces. Lay the pieces out on a flat surface and fasten them together. Ensure that the edges of the wall are flush and form a circle. The back wall vent hole should be placed at the **bottom** of the sauna.

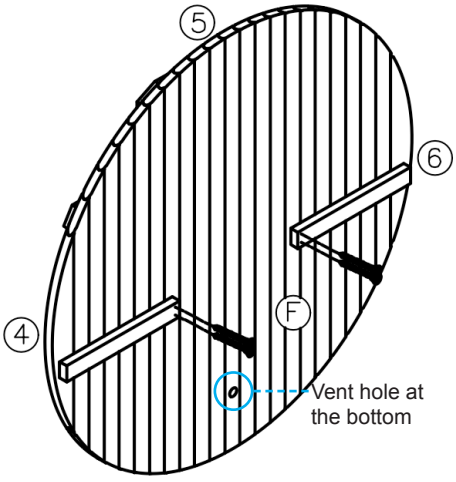
Important: The back wall sides pieces are not identical. Measure and ensure you have put the right and left wall pieces in the right location.

When assembled correctly, the **center cleats inside the sauna should be below halfway** and the vent hole should be at the bottom.

4	5	6	F
			 #8x2$\frac{1}{2}$" (4x60mm)



Side facing the OUTSIDE of sauna



Side facing the INSIDE the sauna

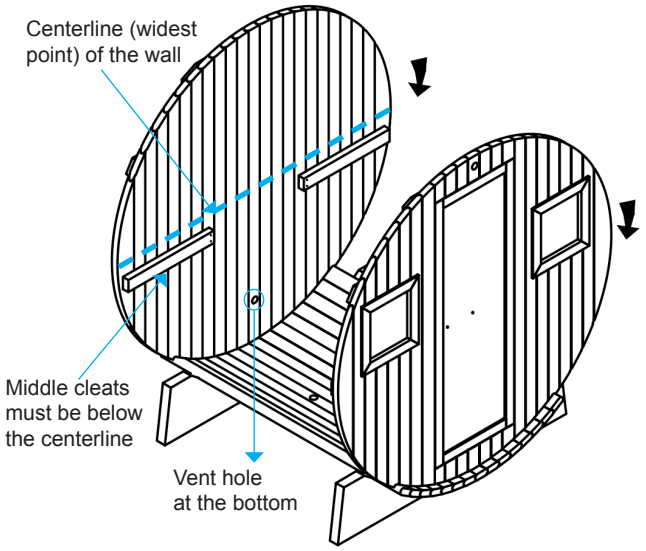
Body Assembly

Step 4: Place the Walls on the Base

Fit the front and back walls into the dado cuts as shown. Use a level to confirm that the walls are level with the ground.

Confirm that the middle brace is below the centerline (widest point) of the circle. **If the middle brace is above halfway, you have installed your wall upside down.**

There is a cord wrapped around the door to prevent movement, **do not remove it until the front wall is in the dado cut.**

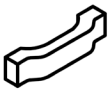
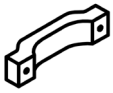


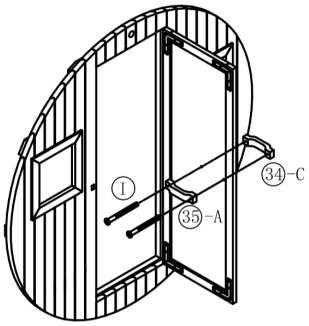
Step 5: Install the Front Door Handle

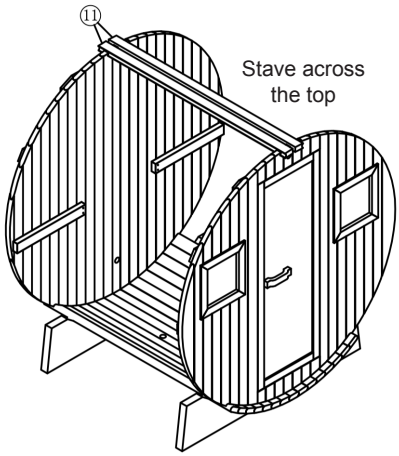
We recommend placing a stave across the top of the walls to prevent movement as you build up the side walls.

Cut and remove the cord that is wrapped around the door so that it can swing open and closed. The cord is wrapped around an interior screw, once the cord is removed, **you may need to use a screwdriver to sink the screw in slightly so that it is flush with the wood.**

Place the door handle pieces on either side of the glass door. The pieces should align with the pre-cut holes in the glass door. Fasten the two pieces together (the screw should pass through the glass door to prevent the handles from moving).

11	34-C	35-A	I
			 #12x2" (6x50mm)





Body Assembly

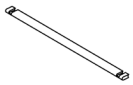
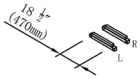
Step 6: Build the Lower Half of the Sauna Body

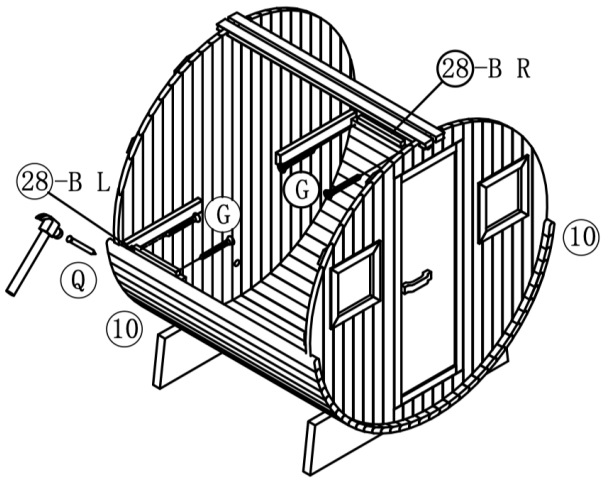
Build up the staves on both sides of the wall. Use the nails provided to fasten every stave or every second stave to the wall while installing (to prevent staves from falling out of position).

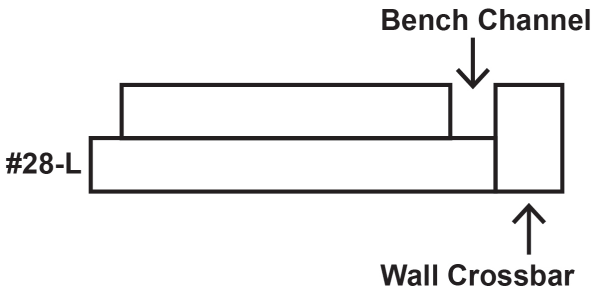
As you install each stave, tap it into place using a rubber mallet to ensure a snug fit.

Once you reach halfway, fasten the two cleats (#28) to either side of the walls.

The bottom of the cleats should be **flush** with the bottom of the rear wall crossbar. The end of the cleats should touch the front of the crossbar. This will create a channel that the bench sits in.

10	28-B	G	Q
			
		#10x2¾" (5x70mm)	2" (50mm)





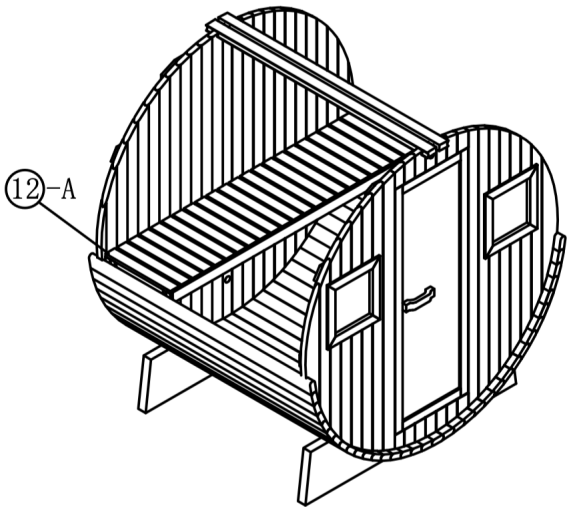
Body Assembly

Step 7: Place the Upper Bench Top Inside the Sauna

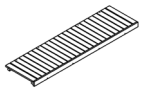
Place the upper bench inside the sauna so that it rests on the back crossbars and the side cleats.

The bench must be installed now as it will not fit inside the sauna once the body is completed. Do not fasten the bench at this point.

Confirm that the bench is sitting flat and level. If it is not sitting flush and touching the cleats and rear wall crossbar on both sides, your cleats may be placed incorrectly. Remove the bench and check the cleats before proceeding.



12-A



Body Assembly

Step 8: Complete the Stave Installation

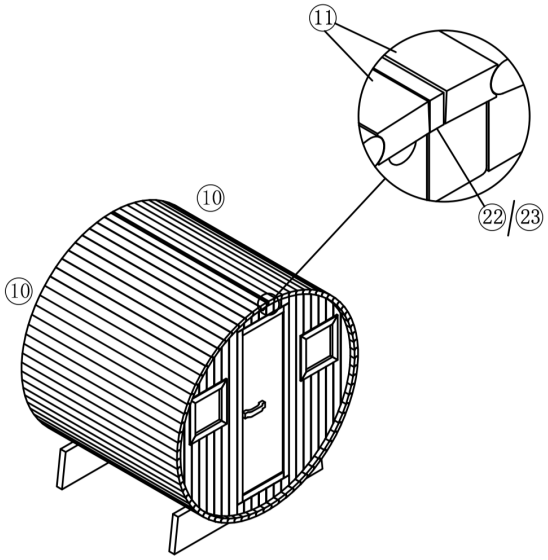
The final staves installed are the two top staves, followed by a spacer stave. The flat sides should face each other at approximately the top center of the sauna.

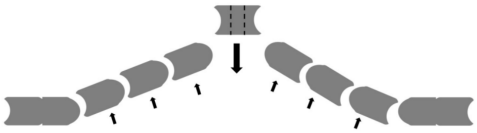
A very small gap between the two center staves is normal. If your gap is larger than ¼", it's best to add one of the spacer staves (stave with double flat edges). We provide both a thick and a thin spacer stave to provide you with options at the top. Because wood can expand and shrink depending on its moisture content, every build is a little bit different. On most builds it should be possible to insert one of the spacer staves.

If the spacer staves are not needed, store them as they may be needed later. Over time the wood can dry and shrink slightly, so the spacer staves can be used to close any gaps that may appear in the future.

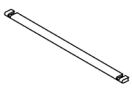
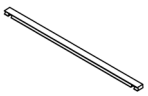
After a spacer stave is added, the fit at the top will be tight and possibly force the staves at the top of the sauna upwards to look peaked. **Having peaked staves at the top of the sauna is completely normal at this stage.** You will round out the sauna with a mallet and ratchet strap in the next step.

When the sauna is complete you should have the following pieces left over: one full-size stave and either one or both spacers.





*Bumping the staves nearest to the center outwards will increase the diameter of your sauna. This will give you extra space to insert the final stave or spacer

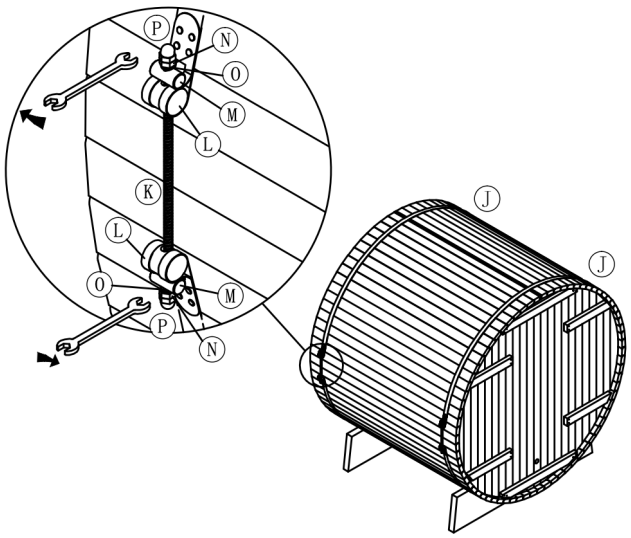
10	11	22	23
		 THICK	 THIN

Body Assembly

Step 9: Install the Bands

The purpose of the bands is to lock the staves in place. However, the bands and threaded rods are not the most effective tools for cinching in the staves during assembly. We strongly recommend using a ratchet strap (not provided) to cinch the staves in when rounding the barrel. Then take the slack out of the bands to lock the staves in position. Using the ratchet strap and bands in combination is the best method to avoid stripping the rods. You can put a towel behind the ratchet strap handle to prevent marking the wood.

Install the bands at the edges of the sauna close to the cradles as shown. Use the band hardware.



J	K	L	M	N	O	P
	$\frac{3}{8}$"x13" (M10x330mm)	 Φ $1\frac{3}{8}$"x$1\frac{1}{2}$" (Φ35x40mm)	 Φ $\frac{3}{4}$"x$1\frac{1}{2}$" (Φ20x40mm)	 $\frac{3}{8}$" (M10)	 $\frac{3}{8}$" (M10)	 $\frac{3}{8}$" (M10)

Tightening the Bands

It is best to use a ratchet strap (not provided) to cinch in the staves. If you do not have a long enough ratchet strap, you can tie two straps together. Start tightening the ratchet strap a little bit at a time. If there are two people assembling, one can tighten the ratchet strap while the other bumps the staves into place with a rubber mallet. The goal is to even out peaks or dips and have the barrel form a perfect circle. It may be necessary to bump upwards from inside the sauna to achieve a circular shape.

To remove all slack from the steel bands, you will need to pound out any kinks or bends in the bands as you tighten them. Aim to hit on the bands themselves as much as possible to avoid accidentally damaging the staves.

Continue alternating between tightening the ratchet strap and the bands until the bands are fully tightened and the barrel forms a circle and there are no gaps between staves.

If you have difficulty opening the sauna door, you may have over-tightened the bands. Loosen the bands to release some tension.

After you have used your sauna for approximately 1 month, retighten the bands. The sauna will settle during use and can change shape if the bands are not kept tight.

The bands then should be retightened every ~6 months. Wood is a natural product that shrinks over time, if the bands are not kept tight the sauna can change shape.

Interior Assembly

Step 10: Install the Front Bench Supports

Place the #30 cleat on the left side of the sauna, under the front wall crossbar. The end of the cleat should touch the front wall. The top of the cleat touch the bottom of the front wall crossbar. The stopper block should be in the middle of the sauna.

Measure to confirm the cleat is level and then fasten it to the side wall.

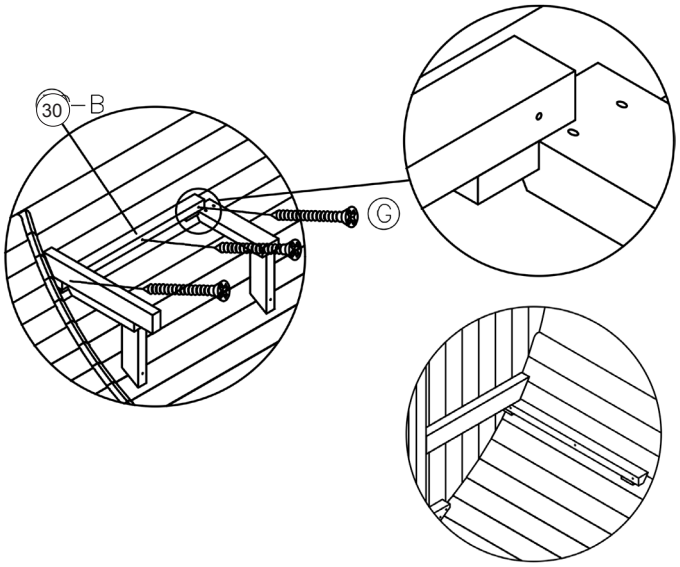
Once the side cleat is fastened, place one #26 strut at either end.

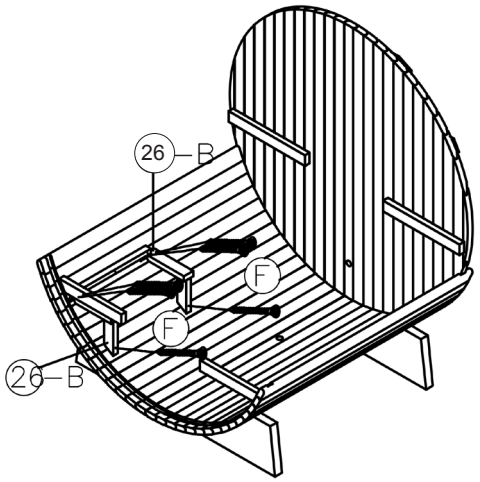
The strut closest to the front wall should sit **under** the side cleat close to the front wall.

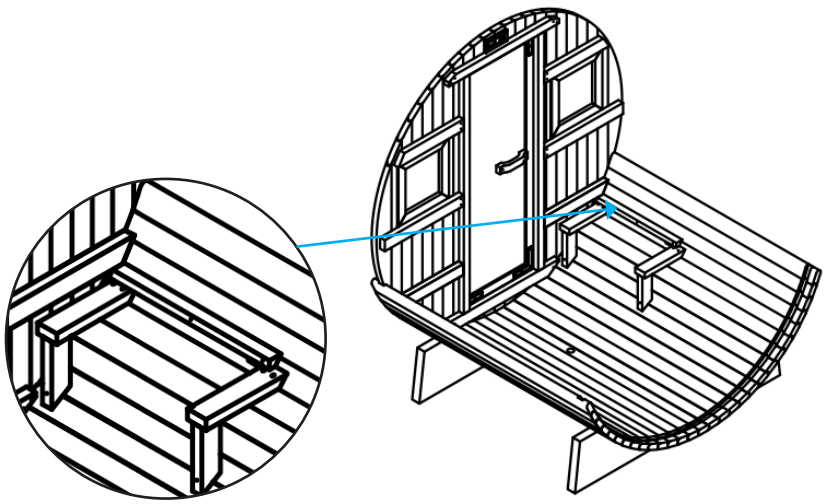
Fit the second strut into the corner formed by the side cleat and the stopper block.

Confirm both struts are level, then fasten them to the side walls with screws. Ensure that both the top and bottom of the struts are fastened.

26-B	30-B	G	F
11 1/2" (290mm)		#10x2 3/4" (5x70mm)	#8x2 1/2" (4x60mm)







Interior Assembly

Step 11: Install the Left Lower Bench Supports

Place the #29L cleat on the left side of the sauna touching the second #26 strut.

The top block on the #29L cleat should sit above the strut. The top of the bottom block should be flush with the top of the second #26 strut.

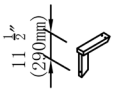
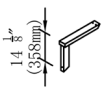
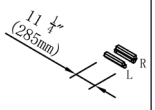
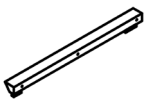
Confirm the #29L cleat is flush and level, then fasten it to the side wall.

Place one #27 strut on the exposed end of the #29L cleat.

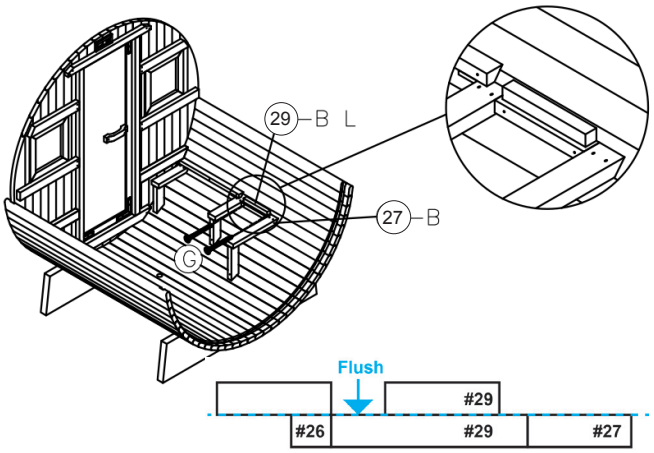
The top block on the #29L cleat should sit above the #27 strut. The top of the bottom block should be flush with the top of the second #27 strut.

Confirm the strut is level, then fasten it to the side walls with screws. Ensure that both the top and bottom of the struts are fastened.

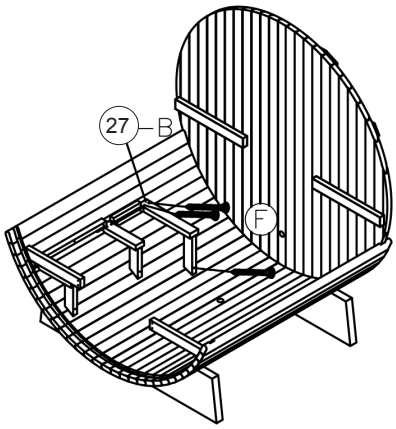
The left side supports are fully installed and should match the diagram on the right.

26-B	27-B	29-B	30-B
			

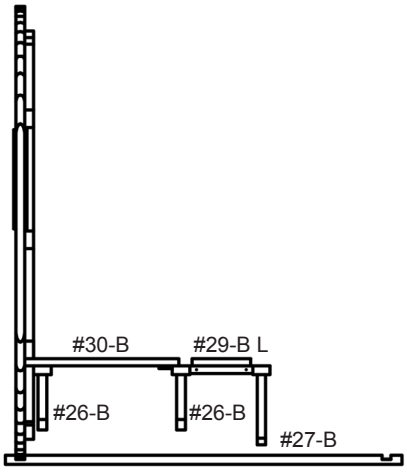
F	G
	
#8x2 1/2" (4x60mm)	#10x2 3/4" (5x70mm)



First, Fasten the #29 Cleat



Second, Fasten One #27 Strut



Fully Assembled

Interior Assembly

Step 12: Install the Right Lower Bench Supports

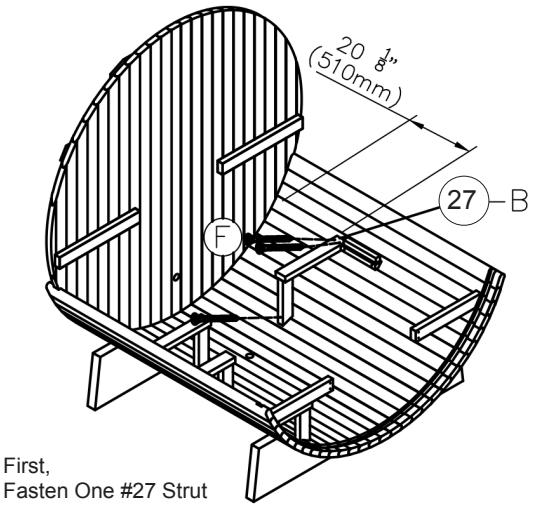
Place **the second** #27 strut on the right sauna wall. This strut should be directly opposite the #27 strut on the other side of the sauna. Confirm the location using a straight edge, or measure to confirm both struts are the same distance from the back wall.

Confirm the strut is level, then fasten it to the side walls with screws. Ensure that both the top and bottom of the struts are fastened.

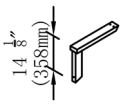
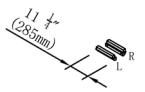
Place the #29R cleat on the right side of the sauna touching the second #27 strut.

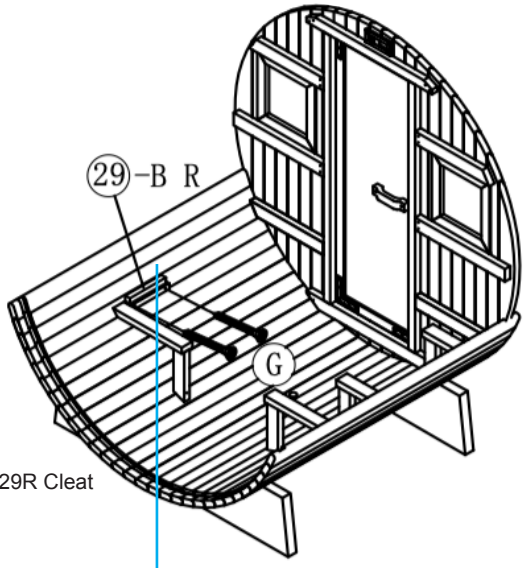
The top block on the #29R cleat should sit above the strut. The top of the bottom block should be flush with the top of the strut.

Confirm the #29L cleat is flush and level, then fasten it to the side wall.

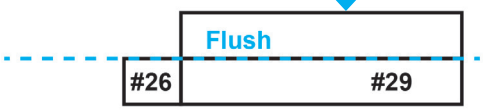


First,
Fasten One #27 Strut

27-B	29-B	F	G
			
14 1/8" (358mm)	11 1/4" (285mm)	#8x2 1/2" (4x60mm)	#10x2 3/4" (5x70mm)



Second,
Fasten the #29R Cleat



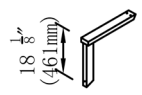
Interior Assembly

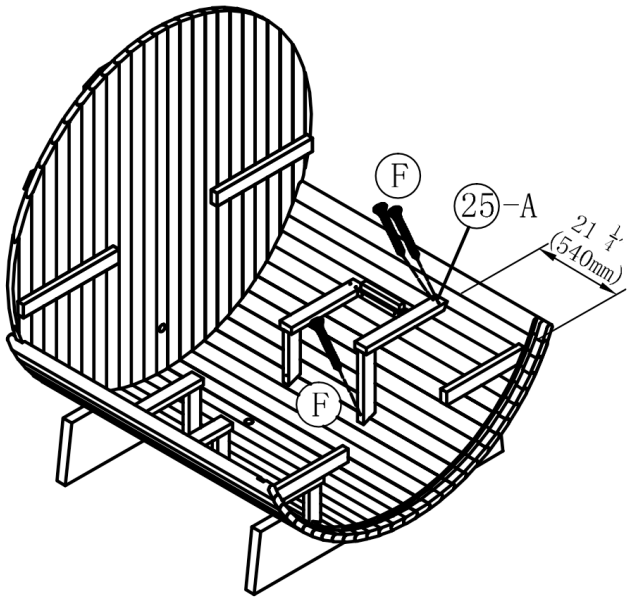
Step 13: Install the Heater Strut

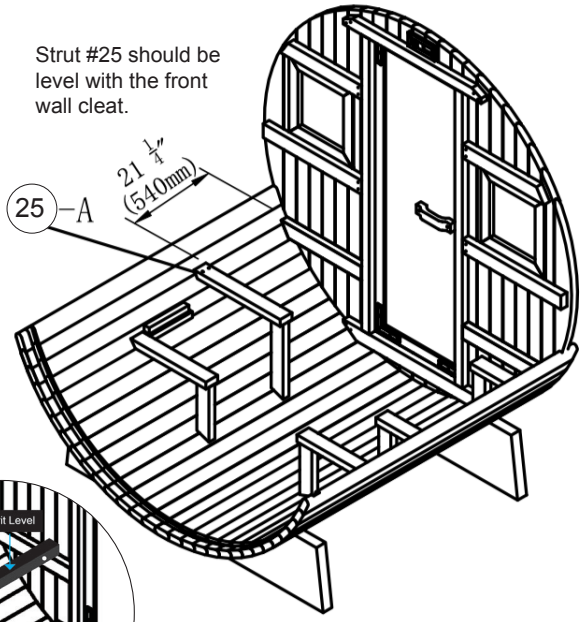
Place the final bench strut (#25) at the front of the sauna. This bench strut is used to support the heater fence. You can use the heater fence to gauge the position or follow the diagram.

Confirm the strut is level, then fasten it to the side walls with screws. Ensure that both the top and bottom of the struts are fastened.

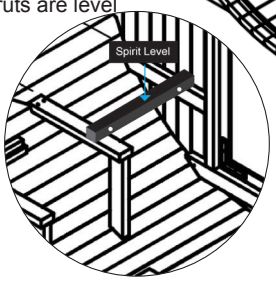
Remember: Bench struts #25 and #27 are different sizes. #25 is taller than #27. Make sure you place strut **#25 near the front of the sauna**, this is the strut that will support the heater guard. When level, strut #25 should be the same height as the wall cleat on the front wall.

25-A	F
	 #8x2 1/2" (4x60mm)





*How to check if struts are level



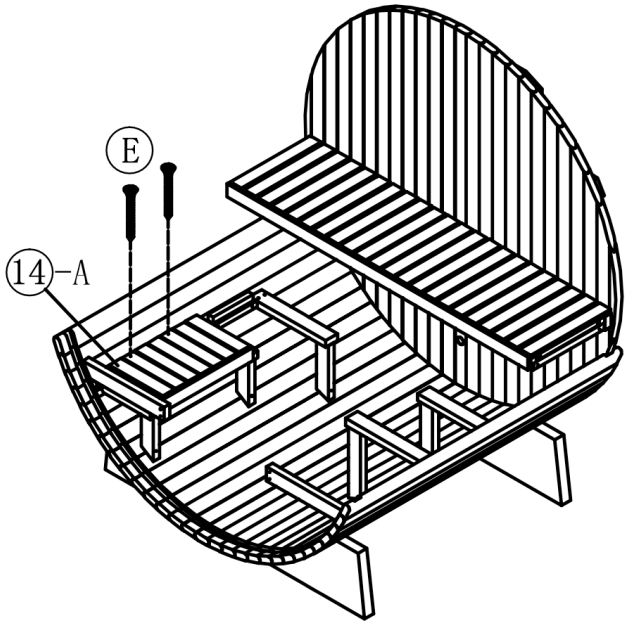
Interior Assembly

Step 14: Install the Side Bench

Place the side benchtop inside the sauna such that it sit on the cleat at the back and the struts at either end. If the bench does not sit level, you may need to adjust the position of the bench supports.

Once the bench sits level, fasten the bench top to the cleat.

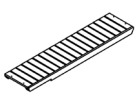
14-A	E
	 #8x1 1/2" (4x40mm)

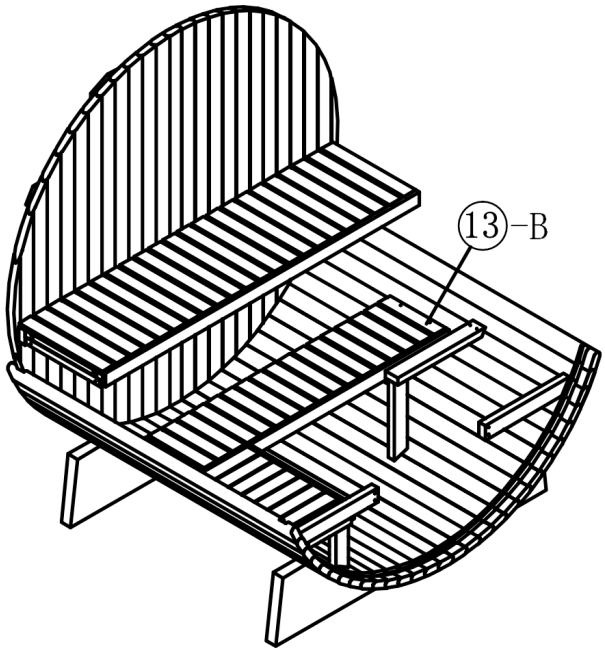


Step 15: Place the Lower Bench

Place the lower benchtop such that the short sides are supported by the cleats and the long runners are supported by the struts. If the bench does not sit level, you may need to adjust the position of the bench supports.

Do not fasten the bench yet.

13-B




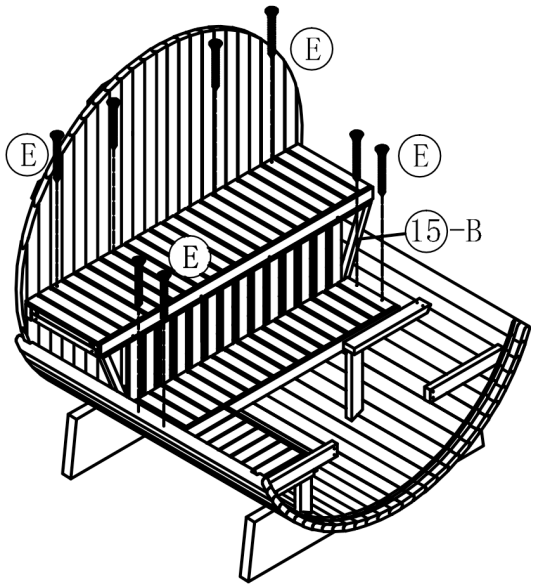
Interior Assembly

Step 16: Place the Fence and Fasten the Benches

Place the fence on top of the struts at the back of the lower bench. Lift the upper bench so that it hooks over the top of the fence.

Once the fence is in position, fasten the benches following the pre-drilled holes.

15-B	E
	 #8x1 1/2" (4x40mm)

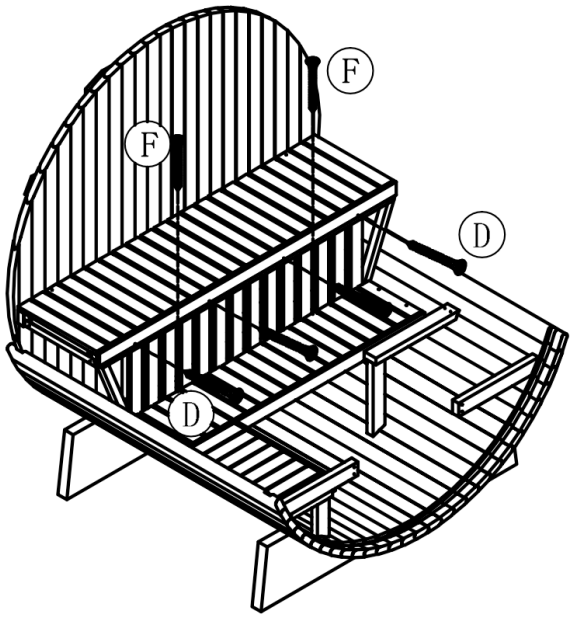


Step 17: Fasten the Fence

Fasten the fence to the upper bench's crossbeam and lower bench strut.

Make sure the fence is fully fastened with screws in all locations.

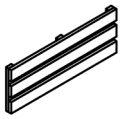
D	F
 #8x1 3/8" (4x35mm)	 #8x2 1/2" (4x60mm)

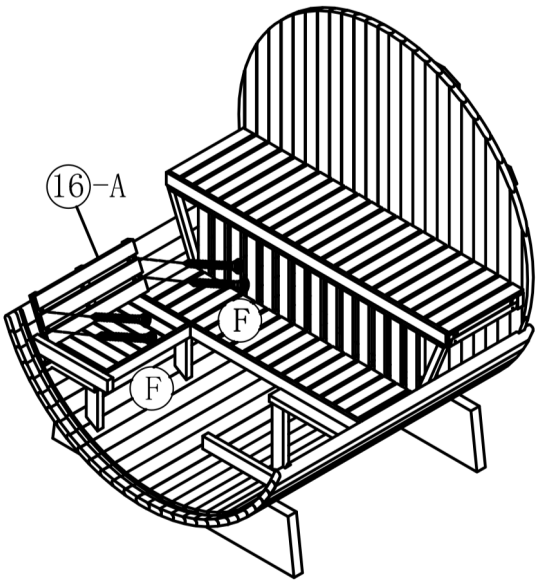


Interior Assembly

Step 18: Install Backrest

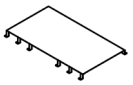
Fasten the backrest to the wall of the sauna. The height of the backrests can be adjusted depending on your preference.

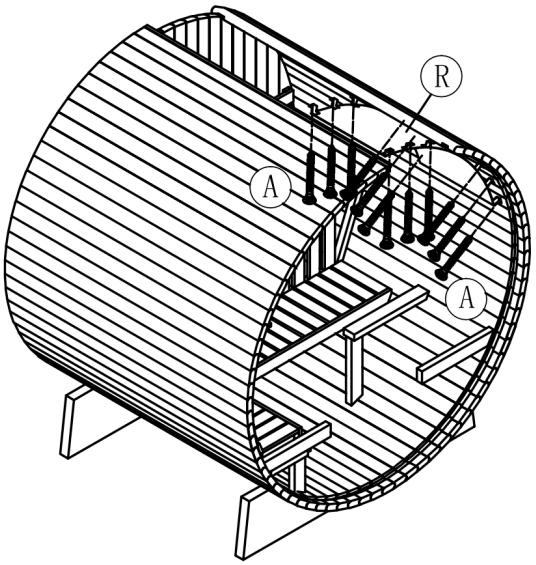
16-A	F
	 #8x2 1/2" (4x60mm)



Step 19: Install the Heat Shield

Unroll the heat shield and fasten it to the roof of the sauna. It should cover approximately 1/4 of the roof from 12 o'clock to 3 o'clock. The heat shield should be directly above your heater to prevent any damage to the wood.

A	R
 #4x 5/8" (3x16mm)	



Exterior Finishing

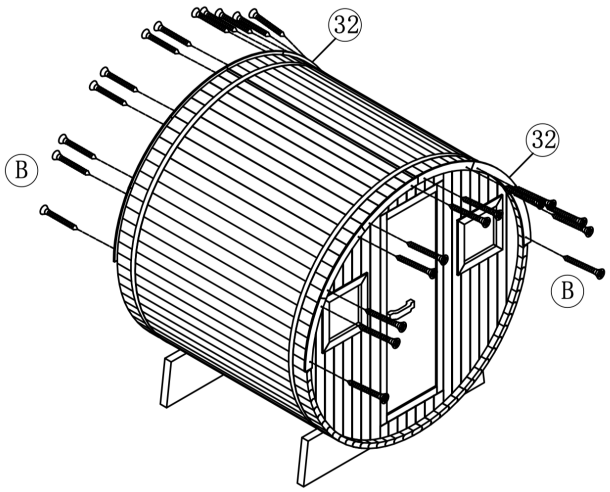
Step 20: Install the Gables

The wooden gables sit on the front and back walls of the sauna.

Fix the wooden gables to the edge of the staves. Six gables should be installed on either end of the barrel.

If not installing the roof tiles, the gables can be left out depending on your aesthetic preference.

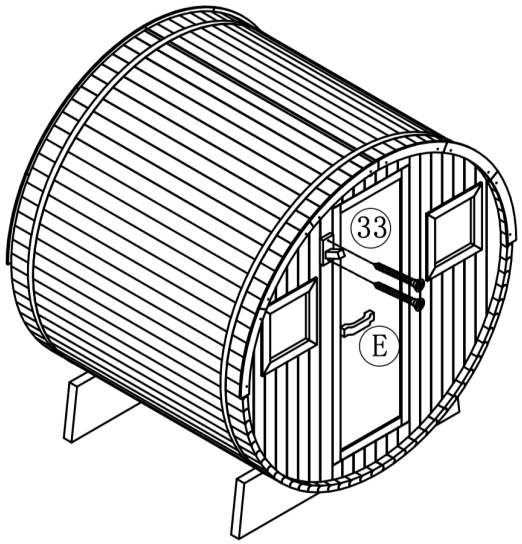
32	B
	 #8x1$\frac{1}{4}$" (4x30mm)



Step 21: Install the Towel Peg

The sauna includes a towel peg. The towel peg can be placed on the inside or outside of the sauna according to your preference. One suggested location is shown in the picture, however, feel free to place this where it will be most useful for you.

33	E
	 #8x1$\frac{1}{2}$" (4x40mm)



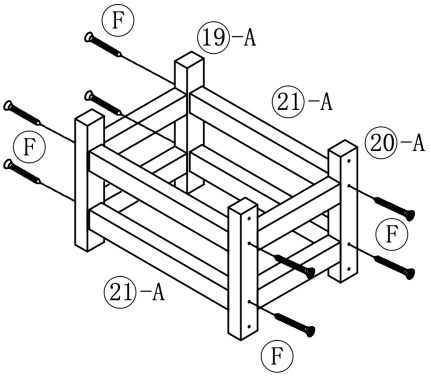
Exterior Finishing

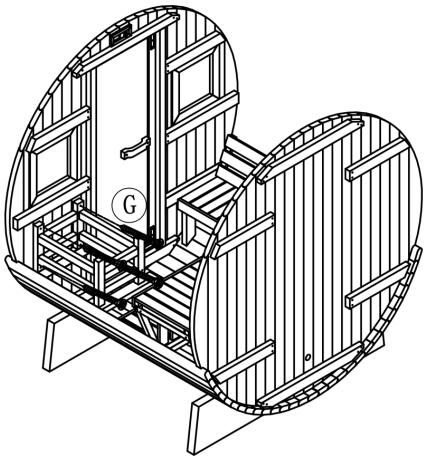
Step 22: Assemble and Install the Heater Guard

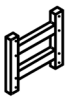
Attach pieces 19 and 20 with the four 21 pieces to assemble the heater guard. The heater guard will form a rectangle when completed.

After assembly, fasten one of the short sides of the square to the front wall of the sauna as shown below.

The other short side will sit on top the unused strut. If the short side does not sit flush, you may need to adjust the height of the strut up or down as required.





19-A	20-A	21-A	F
			 #8x2$\frac{1}{2}$" (4x60mm)

G
 #10x2$\frac{3}{4}$" (5x70mm)

Heater Installation

Step 23: Install the Heater and Guard

The heater hangs inside the guardrail.

You can fasten the heater to the guard in two ways:

1) Place the heater against the guardrail so that the heater's hanging holes line up with the long crossbars.

Mark the four positions and remove the heater. Pre-drill a hole and then drive the lag screws provided with the heater into the long crossbars.

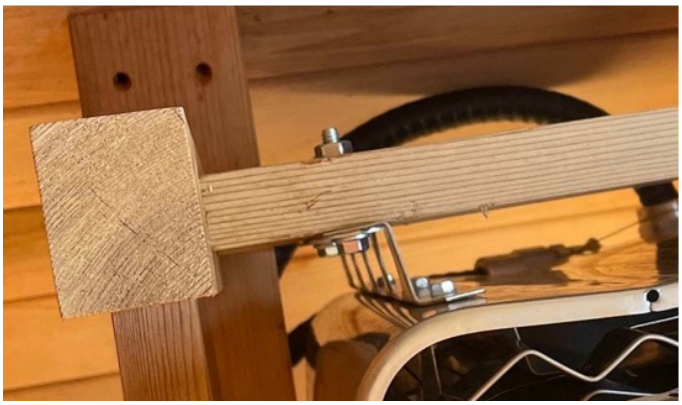
Hang the heater on these screws via the heater's pre-drilled hanging holes.

2) Recommended Method: Place the heater against the guardrail so that the heater's hanging holes line up with the long crossbars.

Mark the position and remove the heater. Drill a hole through the crossbars at all four locations using a **1⁄4"** drill bit.

Place the heater back inside the guardrail and use the H nut + bolt to secure the heater to the guardrail. An example of this approach is on the right.

The heater must be installed be a licensed electrician. The electric heater manual is also available on the Redwood Outdoors website.



Example of Nut + Bolt Installation



Example of how the heater will look once it has been hung inside the heater guard.

H

#12x2½" (6x60mm)

Heater Installation

Step 24: Place the Heater and Temp Sensor

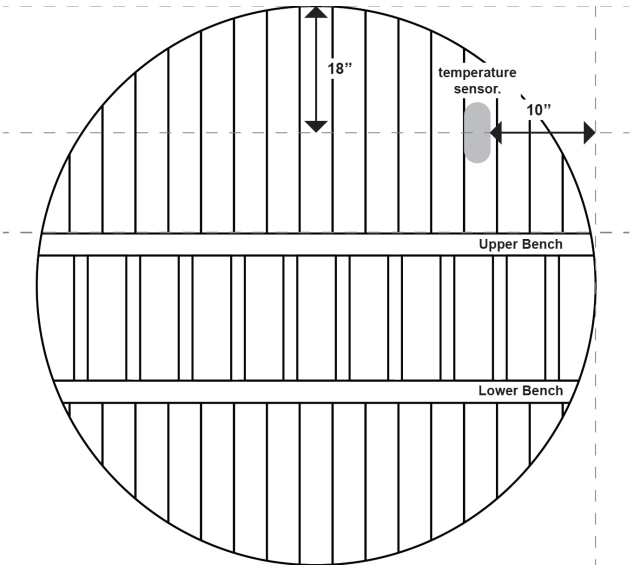
All electrical wiring must be performed by **A QUALIFIED LICENSED ELECTRICIAN.** Heater installation manuals are available on the Redwood Outdoors website and should be provided to your electrician before installation.

Once the heater is installed, place the heater thermometer. The thermometer controls the temperature inside the sauna. When the thermometer senses that the sauna has reached the set temperature, the heater will shut off.

For Harvia KIP heaters, we recommend placing the thermometer on the sauna's back wall **~10" in from the side wall and ~18" below the ceiling's highest point.** Make sure the top of the thermometer is not covered. The diagram below shows the recommended placement.

Correct temperature sensor placement is crucial to the performance and maintenance of your heater. If the sensor is placed too high or too low, your heater's internal safety switch will engage and shut off the heater before the 60 minute preheat time is finished, and your sauna may not come to temp. Incorrect temp sensor placement can also negatively affect the lifespan of your heater coils.

If you have any questions about temp sensor placement, please contact Redwood Outdoors Customer Support for assistance.



Harvia KIP Temp Sensor Placement

Complete heater manuals are available here

Shingle Installation

Step 25: Install the Light Fixture

A light fixture is provided with your sauna.

The light may be installed anywhere inside or outside of the sauna, as long as it is at least 4ft away from the heater and not installed directly above the heater.

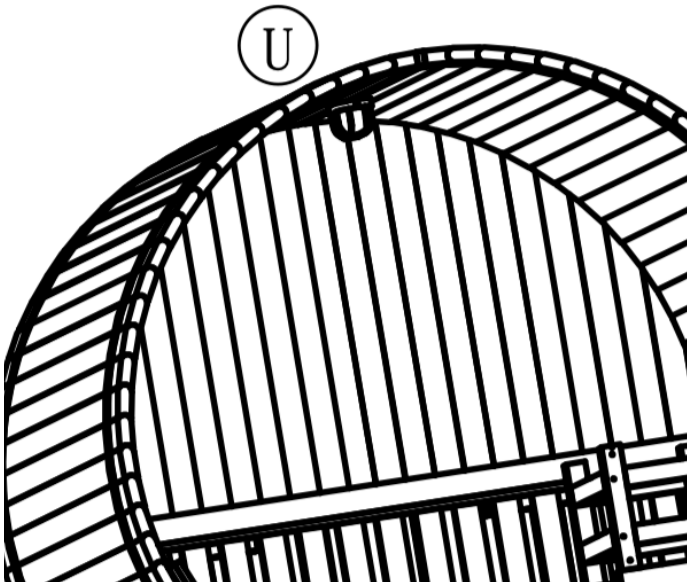
The light fixture must be installed by a licensed electrician. Wiring for the light fixture is not provided and will need to be sourced locally.

The light must be wired to a separate **120v** line.

If you have a wifi-enabled heater, the light can be wired into the wifi kit's power box and will be controlled by the included control panel or through your mobile app. More information on this will be available in your heater's manual.

If your heater is not wifi-enabled, your electrician will need to supply a separate switch for the light as well.

Your electrician should determine the best way for the wiring to enter the sauna based on your site conditions and fixture placement. Consult with your electrician about how best to hide the wiring for the light.

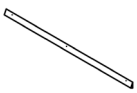


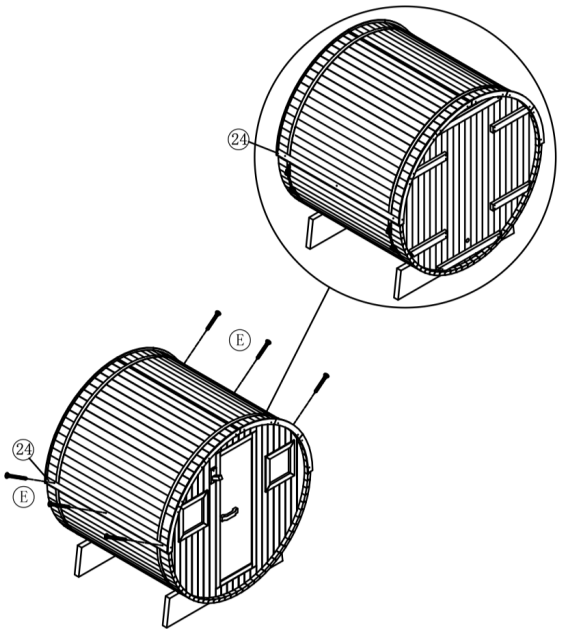
U


Shingle Installation

Step 26: Install the Triangular Wood Strip

Place the triangular strip at the approximate mid point of the sauna. The triangular strip should angle away from the sauna so that water flows from the shingles off the sauna. This will be the lowest point on your sauna's shingles.

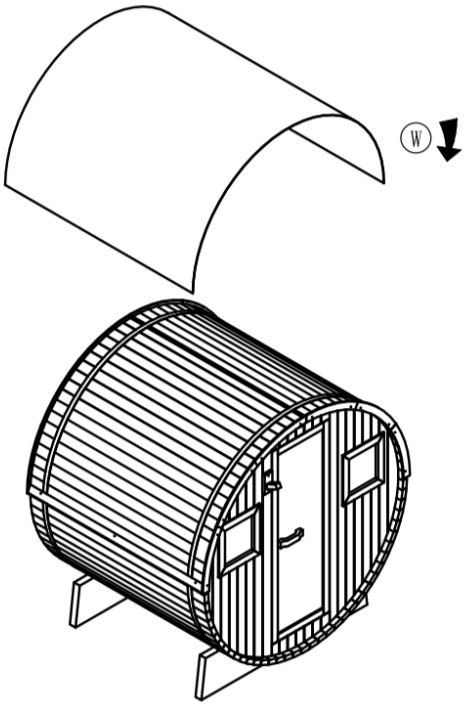
24	E
	 #8x1 1/2" (4x40mm)



Step 27: Place Roofing Underlay

Spread the underlay evenly across the top of the sauna. The edge of the underlay should line up with the edge of the triangular wood strip installed in the previous step. Cut away any excess underlay that sticks out beyond the edge of the triangular wood strip.

W
 130"x70 7/8" 3300x1800mm



Shingle Installation

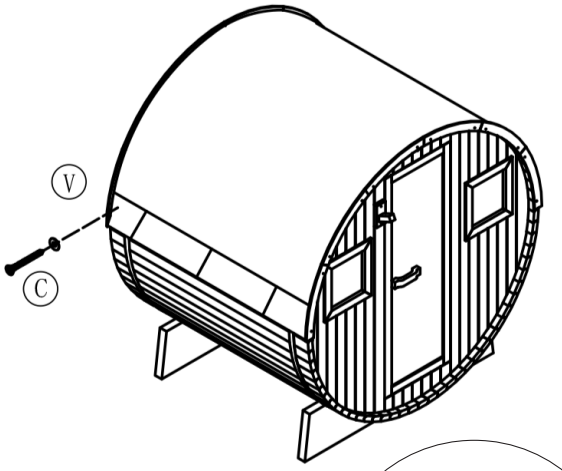
Step 28: Install the First Row of Shingles

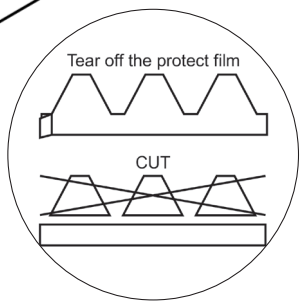
Use a knife or scissors to cut the tiles so the first row has a straight edge on both sides. There is a backing layer on the shingle strips. Peel off this backing layer before placing the shingles on the sauna.

You may need to cut the shingle strips short at the end so that the shingles match and fully cover the roof of the sauna.

Attach the first row of shingles to the triangular wood strip you attached in the previous step. We recommend using a nail gun with 1" roofer's nails as this will be the fastest assembly method. We provide screws + washers that can be used if you do not have a nail gun. Make sure the washer is used to prevent leaks.

C	V
 #8x $\frac{3}{4}$" (4x20mm)	





Shingle Installation

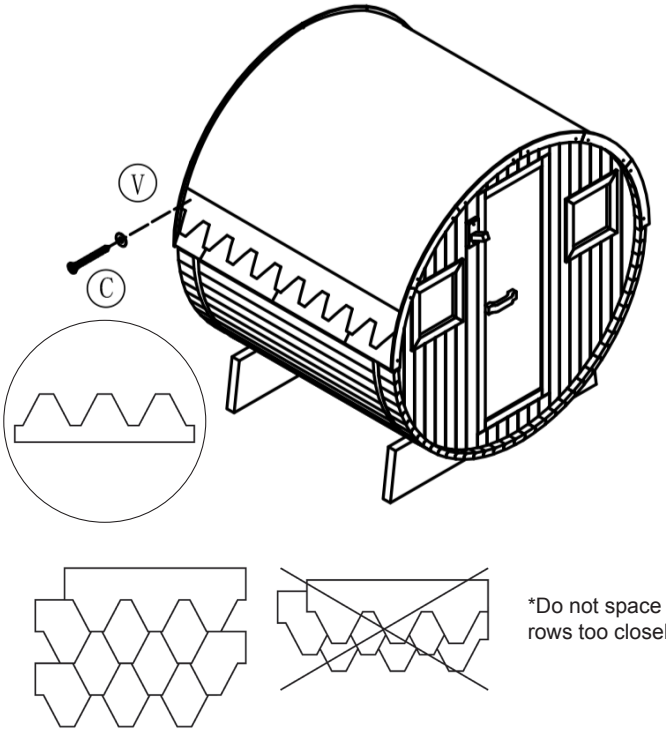
Step 29: Build Up the Shingle Rows

Work up both sides of the sauna in a zigzag pattern until you meet at the peak. Use at least 3 nails or screws per strip. Fasten at the top of the strip so the next strip will cover the nail or screw heads.

There is a backing film on the shingle strips. Peel off this backing layer before placing the shingles on the sauna.

Cutting is required. You must cut the shingle strips short at the ends to maintain the honeycomb pattern.

C	V
 #8x $\frac{3}{4}$" (4x20mm)	



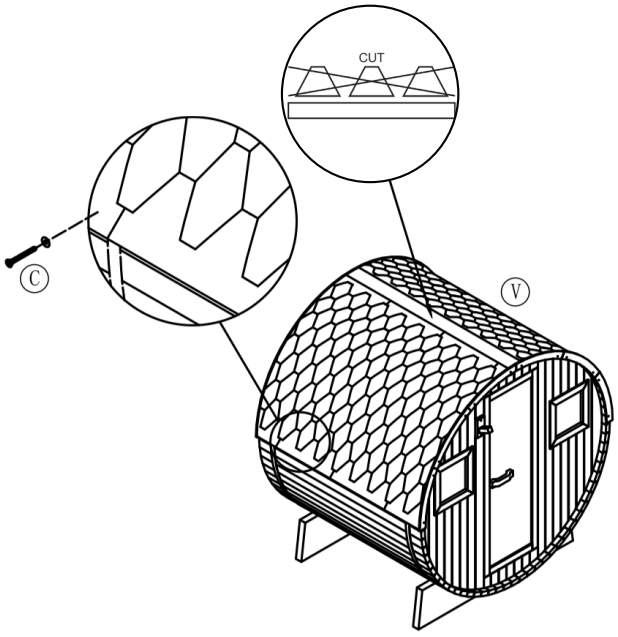
*Do not space rows too closely

Step 30: Install the Final Row of Shingles

Once you have covered both sides of the sauna, you will have a seam at the top where the flat ends of the shingle strips meet.

To cover this seam cut the diamond end tiles off 2-3 more shingle strips (creating rectangular pieces) and lay them across the top of the roof. Secure the rectangular strips on the top of the sauna with nails/screws so that there is no exposed wood showing.

C	V
 #8x $\frac{3}{4}$" (4x20mm)	



Maintenance

Maintaining Your Sauna After Installation

- **Exterior Wood Treatment**
  Your sauna is designed for outdoor use, and the wood we use is naturally resistant to the elements. Nonetheless, over time your sauna will naturally weather, and the color of the wood will start to turn gray, especially in sunny areas. If you'd prefer to preserve the original exterior color of your sauna or even change the color completely, we recommend treating the **exterior only** with a water-based stain-and-seal. A stain-and-seal treatment will add extra protection against mildew as well. **Please note it is important that the inside of the sauna remains untreated to prevent fumes.**

  If you would like to treat the interior of you sauna, Redwood Outdoors carries Supi Sauna Wax by Tikkurila. Supi Sauna Wax can be applied safely to wood inside the sauna room and provides long-lasting protection to keep your sauna looking its best.

- **Roofing and Waterproofing**
  Without a roof installed, it is normal to experience water leaking through the roof boards. The interlocking staves do not form a watertight seal. We recommend installing our asphalt roof shingles, or sourcing your own roofing materials locally. Some customers have installed metal roofs or cedar shingles which work.

  It's normal for some water to seep into your sauna, especially on windy days if rain is blowing onto the side walls of your sauna. This will not harm your sauna or diminish its lifespan. After a heavy rainfall, we recommend you run the heater for a 1-hour cycle to dry out the room. Running the heater a few times a week during the wetter months will help prevent mold or mildew from developing.

- **Interior Maintenance and Cleaning**
  Treating your benches with paraffin oil will reduce the amount of sweat and dirt absorbed into the wood. We recommend treating new benches before using them; repeat the treatment once or twice a year after cleaning the sauna. Paraffin oil is colorless and odorless, and it will give the wood a slightly darker 'wet' look after it's applied. Be sure to **only use sauna-grade paraffin oil**, like Harvia Paraffin Oil, to prevent fumes. Paraffin lamp oil should not be used under any circumstances. Wood surfaces must be completely dry before applying an oil treatment.

  Another option to protect and enhance the interior of your sauna is Supi Sauna Wax, which can be used on all surfaces inside the sauna, including benches, walls, floors, and ceilings. The wax absorbs into the wood, creatings a silky matte finish that repels moisture and preserves the wood's natural look. Supi Sauna Wax is available in clear, white and black. Supi Sauna Wax is made in Finland by Tikkurila.

  Under normal conditions, washing the interior of the sauna every 3 to 4 months will maintain cleanliness. We recommend using Harvia Sauna Cleanser or another suitable cleaning solution for wood. Refrain from using ammonia or harsh chemicals.

  Clean the wood with a sponge or soft bristle brush and your cleaning solution. Always brush with the grain of the wood. If dirt is embedded in the benches, you can sand them down lightly. Rinse the sauna thoroughly with water to remove all the cleaning product. Run the heater for 1 to 2 hours to dry out the room and then leave the door open to air out the sauna.

Maintenance

For stainless steel surfaces on your heater, we recommend Harvia Sauna Heater Cleanser which removes limescale stains.

Re-stack your sauna rocks every 6 months as the rocks will break down over time in high heat. Ensure that the rocks do not shift and cause the heater coils to bend into one another. We recommend replacing your sauna rocks completely every 12-18 months.

After you have finished each sauna session, we recommend running the heater for an additional 60 minute cycle with the door closed. This will dehumidify the room and dry out the wood. If you are using your sauna regularly (i.e., multiple times a week) and drying out the room after each session, this should largely prevent mold formation.

If you are not using your sauna regularly, run a dehumidifier and/or fan inside the sauna to keep air circulating (and empty the dehumidifier water tank regularly). Also place desiccants (e.g., a commercial desiccant such as Damp-Rid or non-commercial desiccant such as charcoal briquettes/ kitty litter) on dishes and place them around the inside of the sauna.

- **Preventing and Treating Mold**

The key to preventing mold from forming is to ensure the inside of the sauna is frequently dried out. Mold can develop as a result of moisture getting trapped inside the sauna over prolonged periods of exposure to sweat and steam or precipitation.

If you see mold on the inside or outside of your sauna, this should be treated early before it has time to grow and take hold. Clean the affected area with household white vinegar and gently scrub the area with a soft scrub brush and soapy water.

If you are unable to remove the mold with vinegar and soap, try stronger cleaning agents such as 30 Seconds Outdoor Cleaner or Behr All-in-One Wood Cleaner. Rinse the sauna thoroughly with water to remove the cleaning solution. Run the heater for 1 to 2 hours to dry the room. Any rags or scrub brushes that come into contact with the mold must be disposed of. **Proper protective equipment (goggles, mask, gloves, etc.) must be worn when removing mold.**

- **Instructions for First Time Use**

Before placing the rocks in your heater, wash them off and dry them to remove any dust. Once they are dry, add the rocks to your heater. Make sure your rocks are not stacked too tightly to allow for appropriate air flow.

To prepare your heater for your first sauna session, turn your heater on to its highest heat setting for an hour. This will burn off the protective oil on the heater coils that may cause a mildly unpleasant smell. The sauna should not have anyone bathing in it during this cycle. Never run your heater without the rocks. After the initial 1 hour cycle, leave the door open and let the sauna air out for several hours.

Now your sauna is ready to use!

Warranty

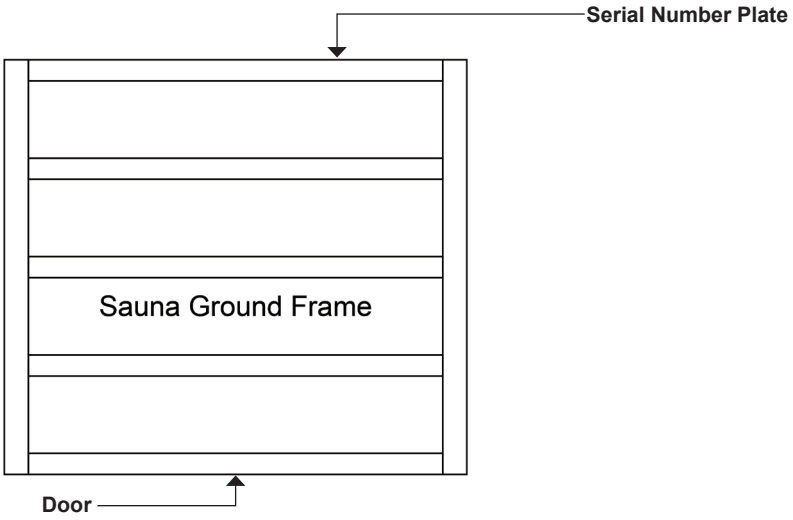
- **Warranty**
  Our saunas and sauna heaters come with a 1-year limited warranty. Please refer to *https://www.redwoodoutdoors.com/warranty* for detailed warranty information on our products.

- **Serial Number**
  Each of our saunas is fitted with a unique serial number. This number is used to verify your sauna's authenticity as well as streamline service requests.

2503C1S0001

Example Serial Number Plate

The plate is attached to one of your sauna's base pieces. You can position it on the side opposite to your sauna's door, so it is not visible during daily use.



Please make a note of your sauna's serial number. If you require assistance, **please include the serial number in your email to Redwood Outdoors' customer support team.** This will allow our team to quickly access your production and shipping details so we can resolve any issues promptly.

User Guide

How to Take a Traditional Finnish Sauna

• Traditional sauna bathing is done in ‘rounds’ or intervals. A round involves heating the body up and then cooling it down. A typical round consists of 10-15 minutes in the sauna followed by a cool down period of approximately 5 minutes.

• Preheat the sauna to your desired temperature (traditional Finnish saunas run between 160°F and 185°F). Preheating typically takes 45 minutes to an hour. If the ambient temp outside is below 20°F, preheating may take longer than one hour. Digital sauna heaters can be started remotely via Wi-Fi. Manual control sauna heaters can be set on a delay timer to start at a predetermined time up to 8 hours in the future.

• All residential sauna heaters have a maximum independent run time of 1 hour for safety reasons, but they can be restarted again as many times as desired. When you enter the sauna for your first round, begin by resetting the heater to the full 1 hour.

• The first sauna round is typically enjoyed dry, which means no water is added to the rocks. Heat stacks in a sauna, so it's normal that the floor will be much cooler than at your head. If you find your head gets too hot, you can wear a sauna hat, which will help keep your head cooler and allow you to feel more of the heat sensation on your body.

• After 10-15 minutes, exit the sauna and begin your cool down phase. If you have an outdoor shower or cold plunge tub, this can be used during your cool down and provides for a much more rapid and effective cool down phase. The goal is to bring your body temperature back down in preparation for the next hot phase.

• The 2nd and 3rd sauna rounds are typically enjoyed with added humidity, which increases the sensation of heat. Water can be gently ladled on to the rocks to create steam or ‘löyly’.

• You may add aromatherapy oils to your water bucket to create a scented steam. The classic scents used in Finland are birch, pine and eucalyptus. All aromatherapy oils are formulated differently, so make sure yours does not leave any residue on the rocks.

• When pouring water on the rocks, do so slowly and only when the sauna is at full temperature. The water should evaporate instantly when it hits the rocks. If you notice water coming out the bottom of the heater it means you are pouring too fast or too much. If you like to use a lot of water in the sauna, it is recommended to buy a sauna fountain. These stone fountains sit amongst the rocks and help create steam.

• A typical sauna session is 2 or 3 rounds. Do not skip the cool down phase on your final round. A sauna session ends with a cool down, after which you can take a warm shower.

• It is important to drink water during a sauna session. You should aim to drink at least 24 ounces of water during a session.

• Excessive heat exposure can be harmful to a person’s health. People with certain health conditions should consult their physicians before using the sauna.

SAUNA BATHING IS NOT RECOMMENDED FOR CHILDREN UNDER 14.
CHILDREN MUST BE SUPERVISED BY ADULTS.

User Guide

Important Note About Heat-Up Times

During colder winter months, your sauna will take longer to reach the desired temperature. This is **norma**l and is due to external conditions.

Several factors contribute to slower heat-up times in winter:
• **Ambient Temperature:** When your sauna starts heating from a low outdoor temperature—especially near or below freezing—the heater must work harder and longer to raise the room's temperature.
• **Cold Rocks:** It takes longer to heat the rocks in the heater that are at the same low temperature as the air inside your sauna. The rocks must heat up first before the room can start heating.
• **Heat Loss Through Surfaces:** The sauna's walls, floor, and roof are much colder. These surfaces absorb heat and lose heat to the environment as the sauna warms up, reducing the speed the room's temperature rises.
• **Wind and Airflow:** Outdoor air movement can increase heat loss, especially if the sauna is not in a sheltered location.
• **Humidity and Snow:** Moisture in the air, snow on the roof, or frost on the panels can draw heat away from the interior as the heater operates.

To improve heat-up times in winter:
• Allow extra time for the sauna to preheat before use.
• Make sure the door is kept closed to minimize heat loss.
• Clear snow or frost from the exterior before use if possible.
• Consider installing a windbreak or shelter if your sauna is in a particularly exposed area.

Please note that most sauna heaters have an automatic safety shutoff after 60 minutes. To continue heating after 60 minutes have passed, you must restart the heater.

IMPORTANT NOTICE

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Contact Info

Phone: 1-800-567-8036
Email: support@redwoodoutdoors.com
Website: www.redwoodoutdoors.com

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