



ASSEMBLY INSTRUCTIONS

for

The CASCADE SAUNA

Read these instructions to guide your assembly.



It is highly recommended to view the assembly video prior to starting assembly!

**Scan the QR code to follow along
with the assembly on video.**



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Congratulations on the purchase of your Rate Outdoors Cascade Sauna.

Just a few things to follow.....

**Please be sure to read this entire manual
Before proceeding with the assembly.**

**All electrical connections must be performed
by a qualified electrician.**

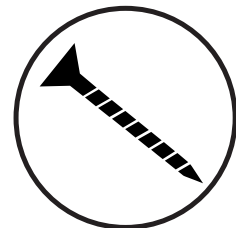


**CERTIFIED
ELECTRICIAN**

**For further information about your heater and
Installation instructions, please refer to the
provided heater manual.**



**Always ensure that you have the correct screw
length so that the screw does not go all the way
through the material and come out the other side.**



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Tools Checklist

Ensure you have the following tools to finish the job right!



Cordless Driver

☐


Staple Gun

☐


Nail Gun

☐


Utility Knife

☐


Hammer

☐


Tape Measure

☐

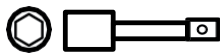

Mallet

☐


Marker or Pencil

☐


Level

☐


3/4" (19mm)
Socket

☐


1/4" (6mm)
Socket

☐


#3 Robertson Bit (Short bit + 4" or longer)

☐


2" (51mm) Hole Saw with bit for cordless driver or drill. 1 1/2"–2" (38-51mm) size

☐

Cascade Sauna Assembly Instructions

Sauna Base Preparation

Make sure the base for your sauna is level with a slight slope to the back for drainage. A solid base for your sauna is recommended and can be made from any of the following.



Concrete Pad



Wood Deck



Crushed Stone



Patio Stone/Paver Blocks

It is recommended to build a base larger than required to provide a sitting area for cooling off during your sauna session.



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Cascade Sauna Assembly Instructions

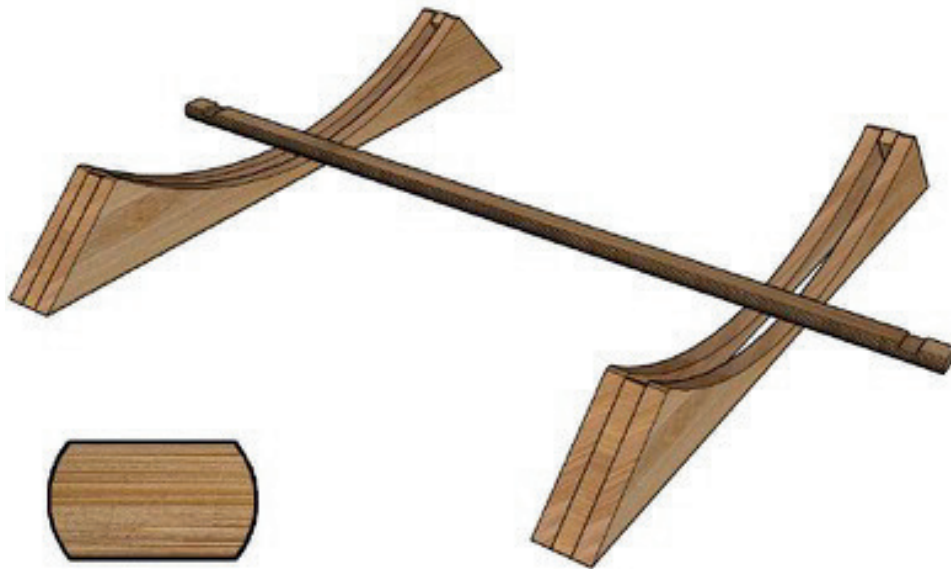
BOTTOM FRAME assembly

1



Place the barrel supports approximately 46 inches (1168mm) apart.

2



Stave Profile

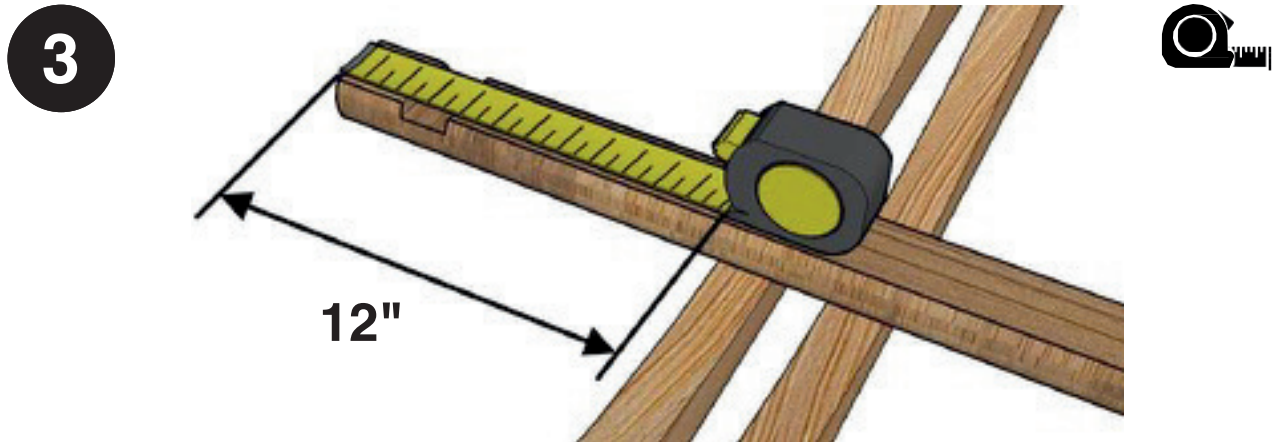
Identify the bottom stave (shown in the image above) and center the stave on the cradle supports. Ensure the groove on the stave is facing upwards.

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Cascade Sauna Assembly Instructions

BOTTOM FRAME assembly



Measure 12 inches (305mm) from end of stave to the edge of the cradle support.



Secure the stave with a screw ensuring the stave is square. Add three more screws to each corner of the cradle support (See image above).

PLEASE NOTE: It is important to use the correct screw length. A screw too long could possibly go through the cradle support or a screw too short will not have enough thread to provide hold.



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Cascade Sauna Assembly Instructions

BOTTOM FRAME assembly

5



Repeat Steps 3-4 for the opposite end of the bottom stave.

6



Place 3 staves against the bottom stave sliding each piece tightly against the next. Ensure that you align the grooves of each stave.

7



Place 3 additional staves on the opposite side of the bottom stave. Slide each piece tightly against the next. Ensure that you align the grooves of each stave.

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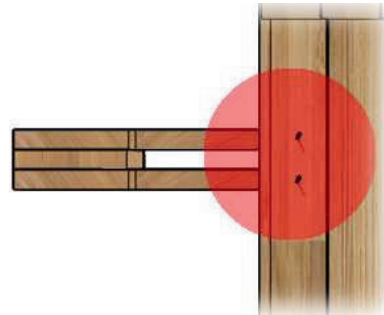


Cascade Sauna Assembly Instructions

BOTTOM FRAME assembly

8

  **4X**
2 1/2" (64mm) Robertson



Ensure the screws line up with the cradle boards underneath.

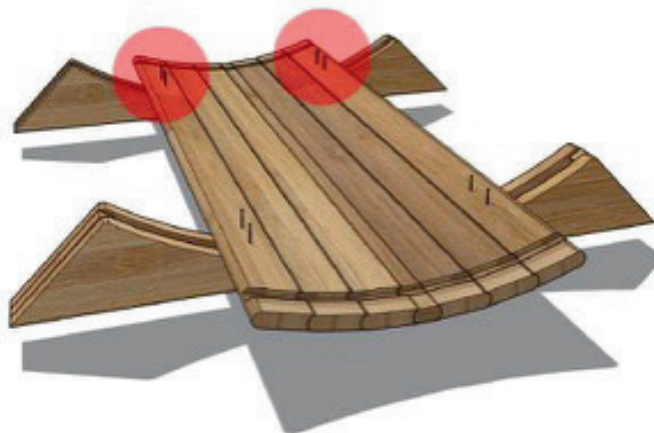
Secure the staves by placing two screws on each of the end staves (see image above).

Do not put the screws through the bottom stave all the way.

This will help align the cradle but leave the frame flexible for further adjustment.

9

  **4X**
2 1/2" (64mm) Robertson



Continue securing screws on the opposite end of the board.

Do not put the screws through the bottom stave all the way. This will help align the cradle but leave the frame flexible for further adjustment.

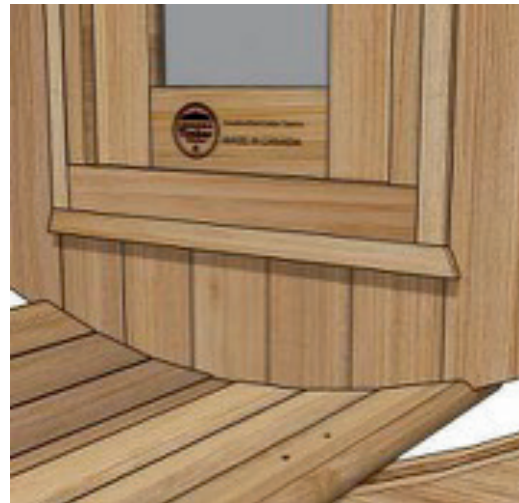
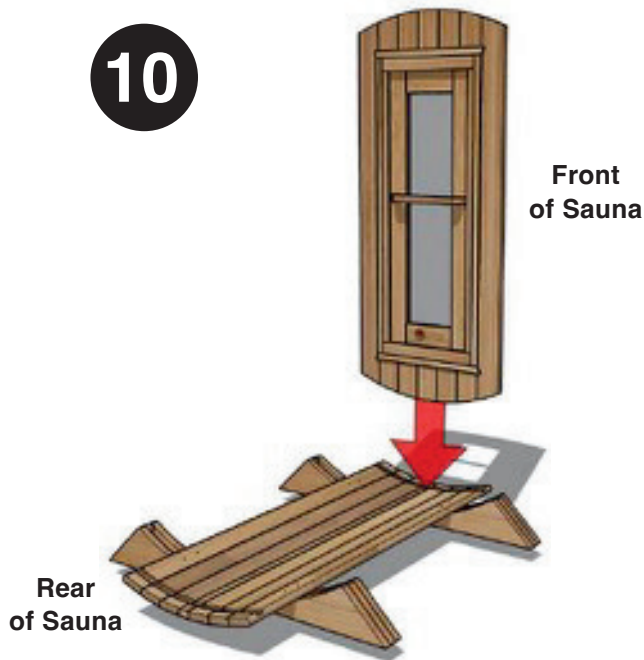
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Cascade Sauna Assembly Instructions

FRONT & REAR WALL assembly

10



Place the door onto the grooves of the bottom frame. Ensure the door is placed to the front of the frame. Ensure the logo etched on the door is to the bottom and facing inwards to the frame (See image above).

11



Using a level and rubber mallet, tap the door until it is centered and level. (See image above).

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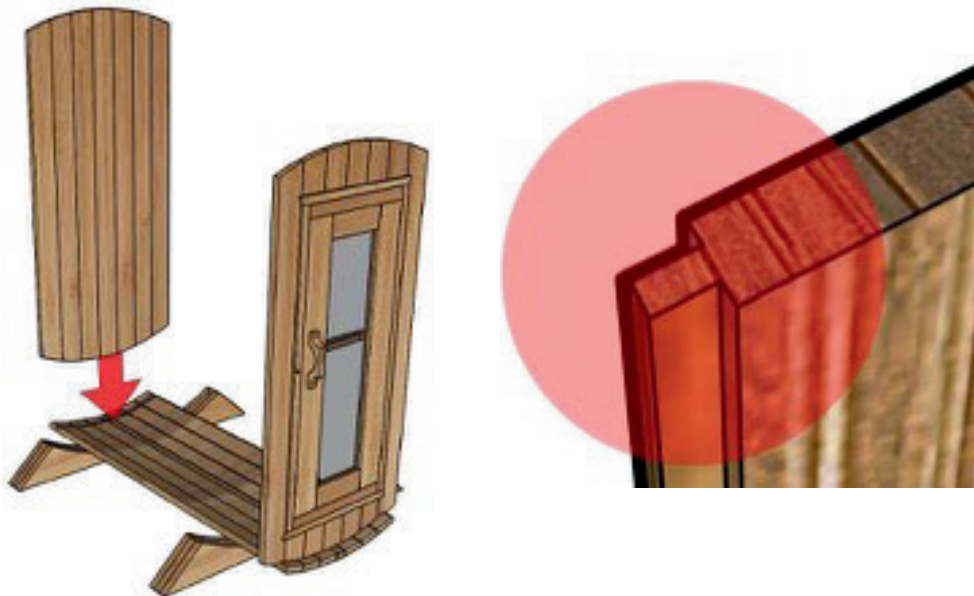


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Cascade Sauna Assembly Instructions

FRONT & REAR WALL assembly

12



Install the back wall panel onto the grooves of the bottom frame. Ensure the tongue and grooves are opposite to each other from the front and back panels.

13



Use a level and mallet to center and level the wall section.

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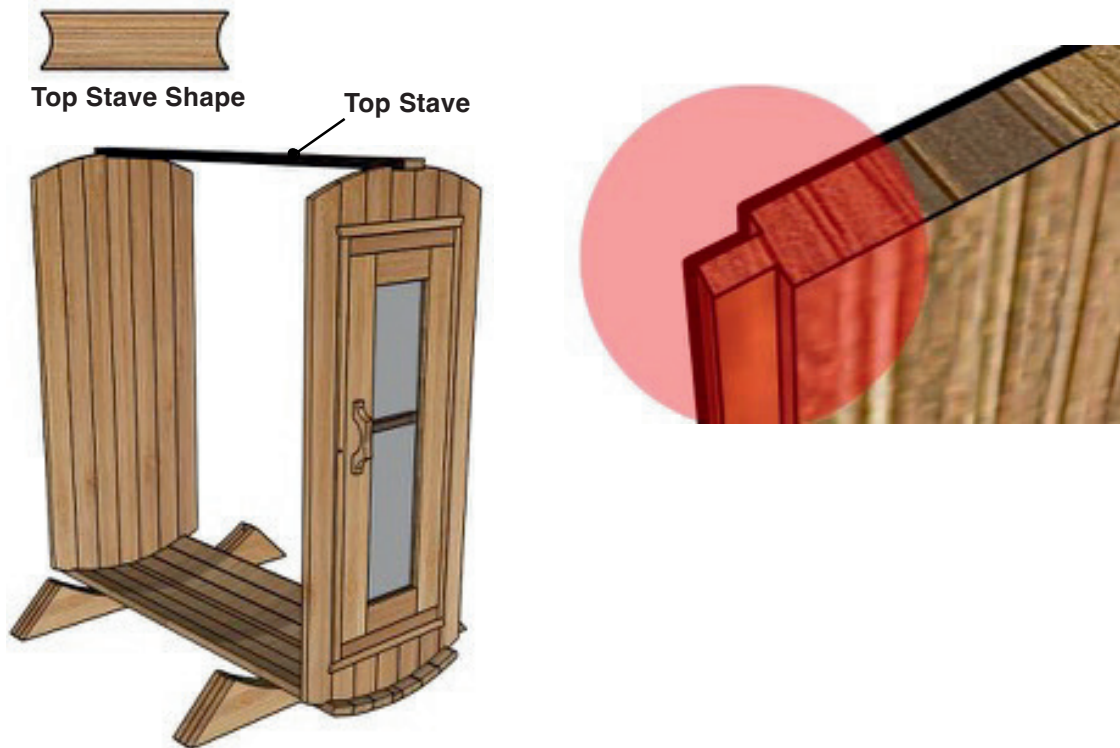


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Cascade Sauna Assembly Instructions

FRONT & REAR WALL assembly

14



Connect the top stave between the front and back panel to help stabilize the sauna. Ensure the groove in the top stave is facing downwards and connects with the wall panels.

15



Please Note:
Panels may not be exact
size to middle wall.

Secure the rear wall half-moon panels. Ensure the bench support is facing inwards.

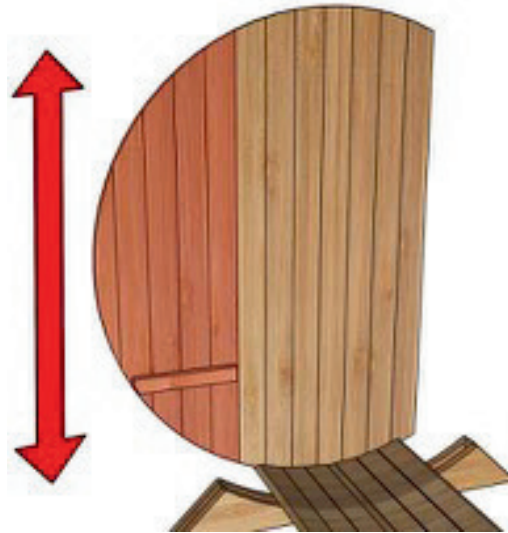
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Cascade Sauna Assembly Instructions

FRONT & REAR WALL assembly

16



Center the half-moon panels vertically on the middle wall and secure in place.

17



2X

2 1/2" (64mm) Robertson



Fasten the connection between the side panel and the middle panel in the pre-drilled holes located at the top and bottom of the panel.

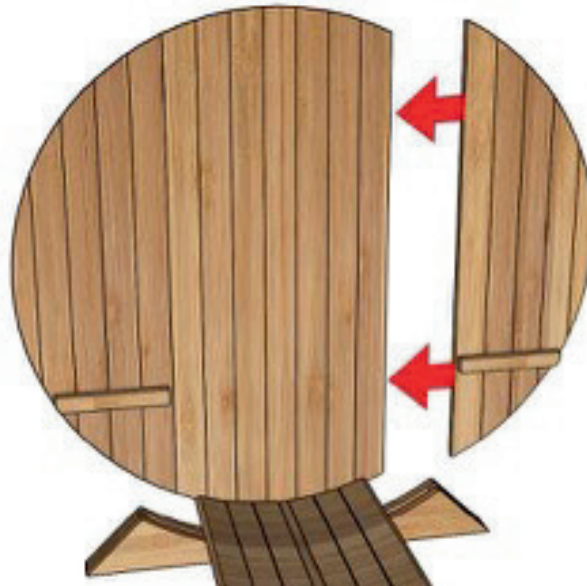
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Cascade Sauna Assembly Instructions

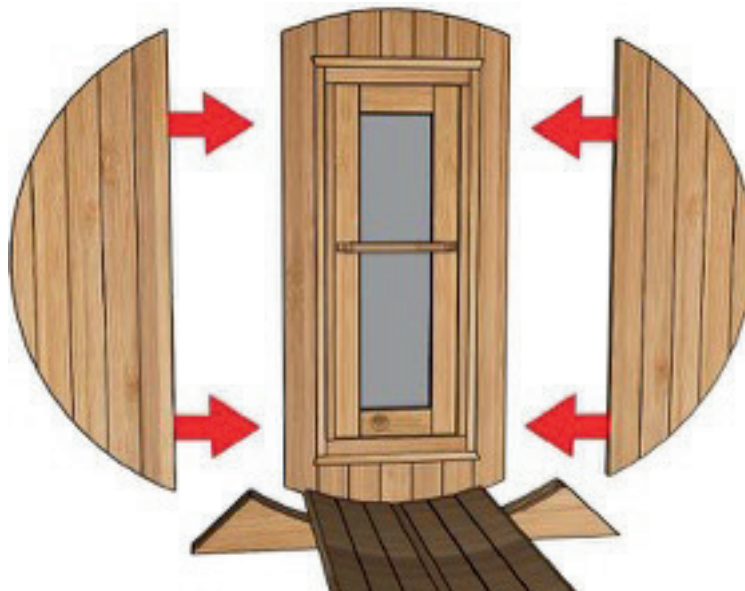
FRONT & REAR WALL assembly

18



Repeat and follow Steps 15-17 to install the second rear panel.

19



Follow Steps 15-17 as a guide to secure the front wall half-moon panels to the front panel.

Cascade Sauna Assembly Instructions

CURVED WALL assembly

20



Continue adding staves on either side of the sauna a few at a time, alternating sides. Use the rubber mallet to finesse the staves into place.

21



2X EVERY SECOND STAVE



PLEASE NOTE: Once past the middle point of the sauna, nails should no longer be needed.

Secure every second stave on the bottom of the sauna with the provided nails to hold staves in place. Add a nail to both ends of the stave.

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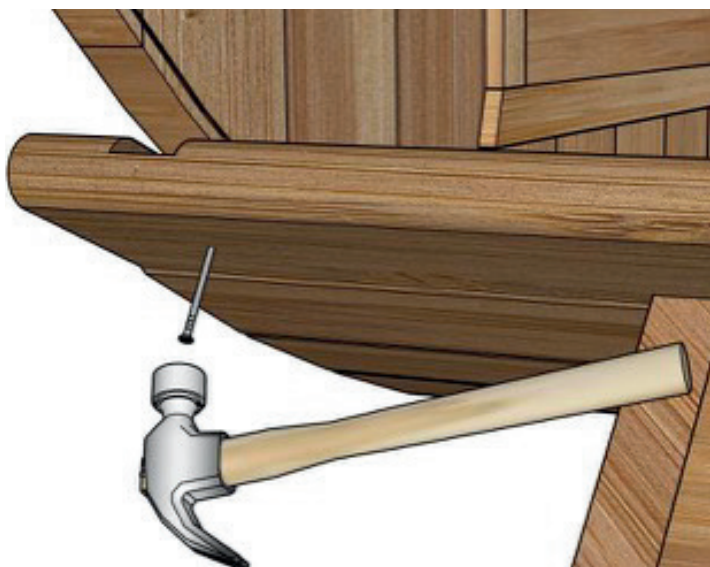


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Cascade Sauna Assembly Instructions

CURVED WALL assembly

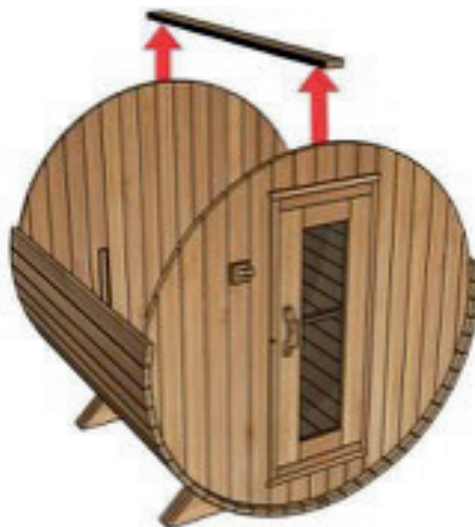
22



When installing the staves, tap tightly together while leaving as much of a gap as possible between stave and wall using the pencil line as a guide as in picture.

* This will make the tightening of the bands easier.

23



Remove the top stave and put it aside while continuing to add staves on both sides until you reach the top of the sauna.

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Cascade Sauna Assembly Instructions

CURVED WALL assembly

24



Top Stave Shape

Use the top stave to wedge with the last stave to create a “V” shape.

- If you experienced no problems with fitting the staves snugly to create a “V” shape then continue to Step 25.
- If the staves cannot be loose to create a “V” shape or there is a gap between the staves, you may need to add one of the spacer boards to the top stave. Continue to Step 24 A.
- If your sauna staves are too tight to allow the staves to settle into a “V” shape you may need to make the top stave narrower. Continue to Step 24 B.

24A

If the staves are too loose to create a “V” shape or there is a gap between the staves, you may need to add one of the spacer boards to the top stave.



Begin by removing the top stave from the top of the sauna. The top stave is actually two pieces held together by screws. Begin by removing the screws holding the top stave together. Separate the stave into two pieces.

Cascade Sauna Assembly Instructions

STAVES TOO LOOSE

24A



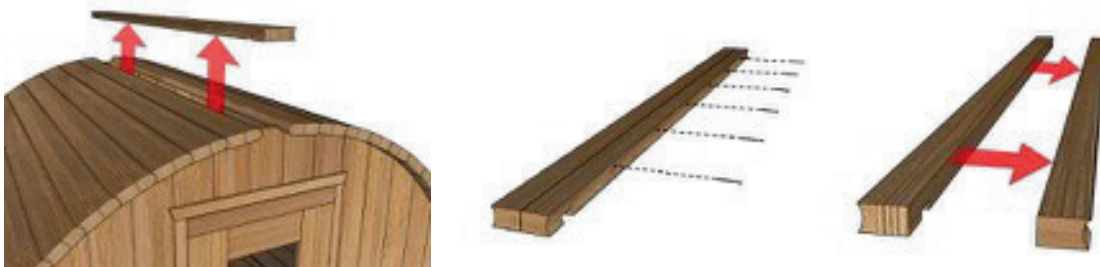
In your sauna package there is a square spacer the same length as the top spacer. Take this stave and position it between the two top stave pieces. Refasten all three pieces with the screws that held the top stave together. See image above for details.



Reattach the new top stave to the same position on the roof line. Continue with STEP 25.

24B

In rare instances, your sauna staves might be too tight to allow the staves to settle into the correct position and be aligned with one another. This doesn't happen often, and the sauna staves and bands are always better being as tight as possible.



Begin by removing the top stave from the top of the sauna. The top stave is actually two pieces held together by screws. Begin by removing the screws holding the top stave together. Separate the stave into two pieces.

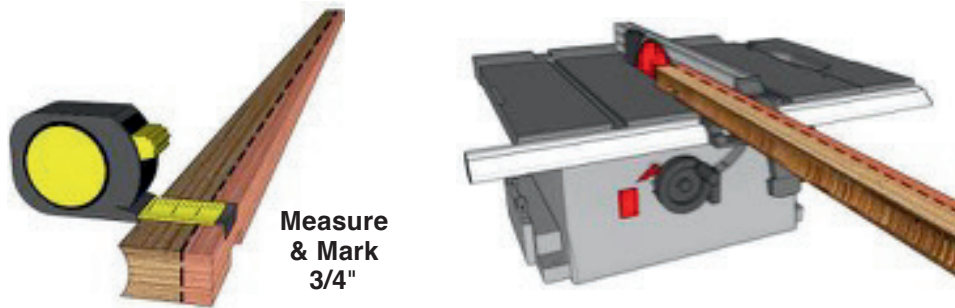


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Outdoors

Cascade Sauna Assembly Instructions

STAVES TOO TIGHT

24B



Measure and mark 3/4 inches (19 mm) on both stave pieces from the flat side of the stave. Using a circular or table saw safely cut off 3/4 inches off each stave piece to make them thinner. Reassemble both pieces with the cut edge of each piece facing the other.



Refasten both stave pieces with the screws that held the top stave together. See image above for details.



Reattach the new top stave to the same position on the roof line. Continue to STEP 25.

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Cascade Sauna Assembly Instructions

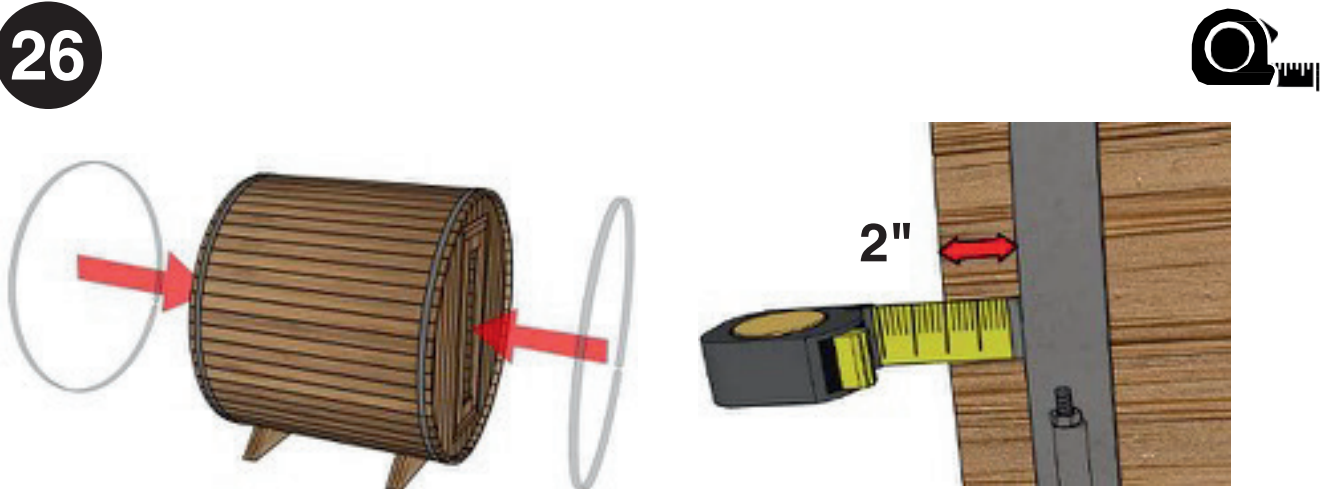
STEEL BAND assembly

25



Pre-assemble two bands and thread the nut on just enough to hold the band together.
Leave the third band unassembled.

26



Place one band over each end of the sauna.
Ensure each end is placed 2" (51mm) from the ends of the sauna.

27



Feed the center band over and under the sauna and secure it with a rod and nut.

Cascade Sauna Assembly Instructions

STEEL BAND assembly

28



Ensure the band fasteners are set to the same height when all steel bands have installed on the barrel.

29



Lightly snug up the front and back fasteners.

Cascade Sauna Assembly Instructions

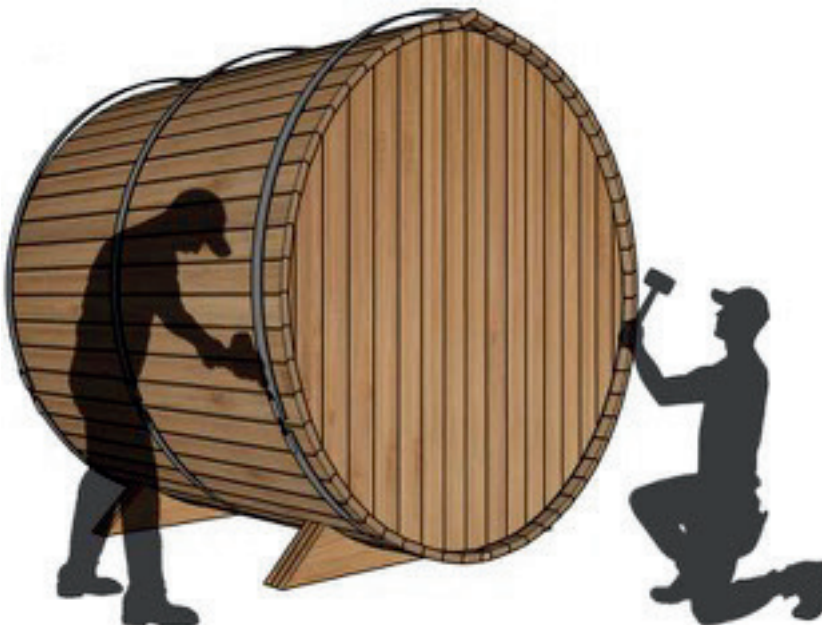
STEEL BAND assembly

30



Tap out all the staves to even them out.

31

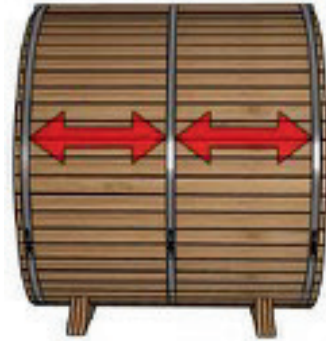


Tighten fasteners on the front and back bands while a helper continues to tap on the staves.

Cascade Sauna Assembly Instructions

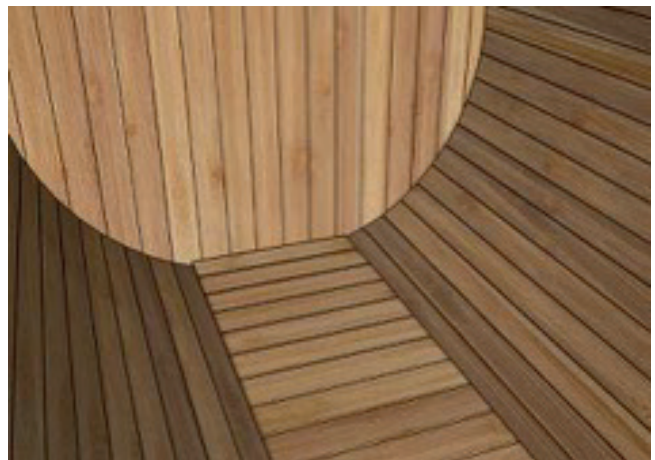
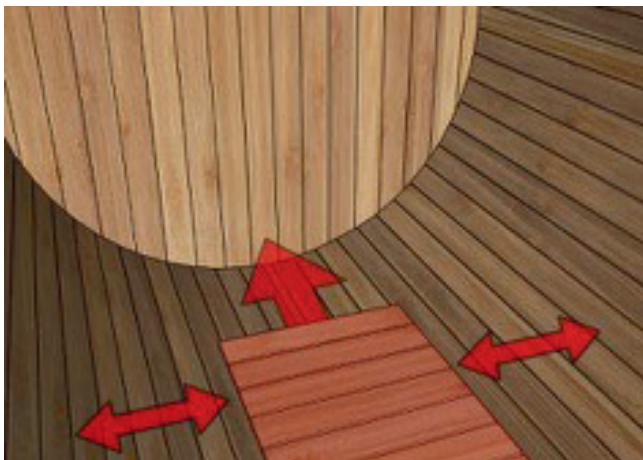
FLOOR assembly & installation

32



Ensure the middle band is centered and tighten. Ensure all fasteners have a final tightening.
PLEASE NOTE: Don't worry about making the bands too tight as they cannot be overtightened.

33A



Place the flat floor piece inside the sauna towards the back wall.
Center the floor in the middle of the sauna.

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Cascade Sauna Assembly Instructions

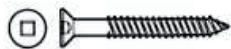
FLOOR assembly & installation

33B



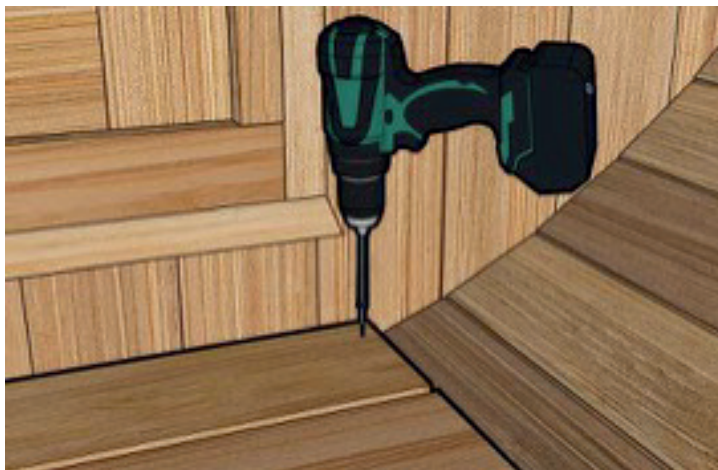
Ensure the floor is level.

34



6X

1 1/2" (38mm) Robertson



Once level, secure the floor with screws in the 4 corners and 2 in the middle of the flat floor screwing between the floorboards so the screws are not as visible.

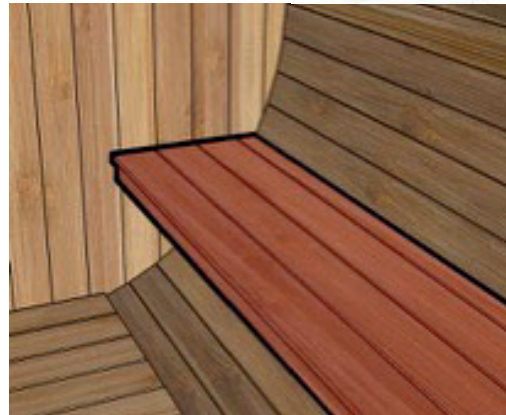
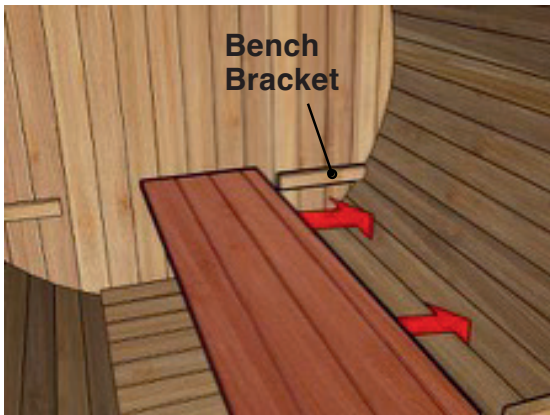
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Cascade Sauna Assembly Instructions

FLOOR assembly & installation

35



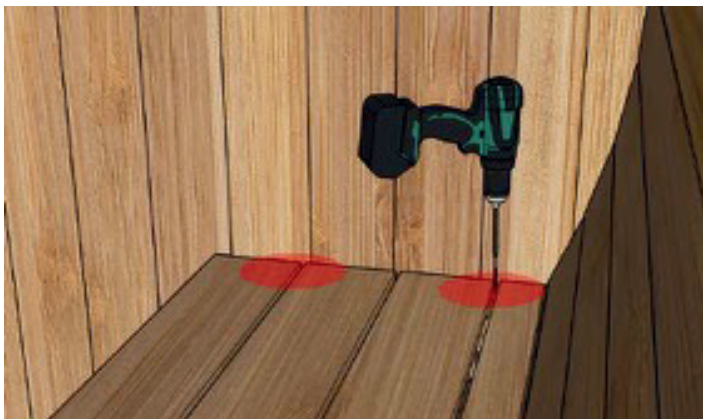
Bring a bench top inside the sauna. Place the bench top onto the bench brackets and slide the bench top until it touches the wall. Ensure that the bench top is tight against the wall on both ends of the bench top. Repeat STEP 35 for the second bench.

36



4X

1 1/2" (38mm) Robertson



Secure the benches to the bench brackets with screws in each of the corners of the bench. Position the screws between the bench slats so they are not as visible.

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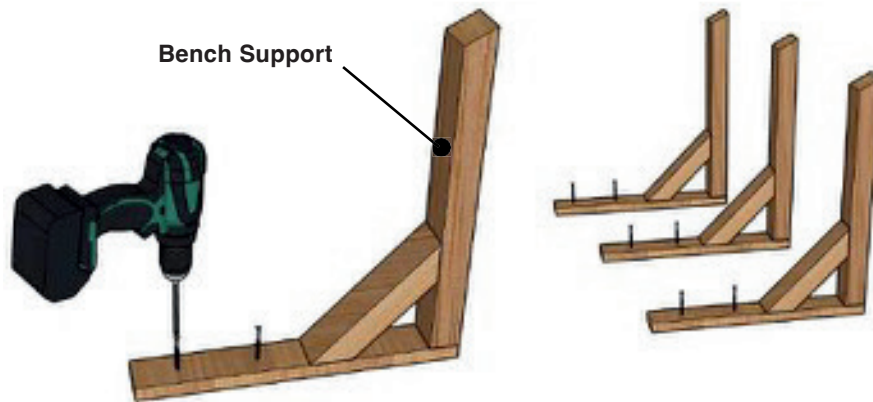


Cascade Sauna Assembly Instructions

BENCH assembly & installation

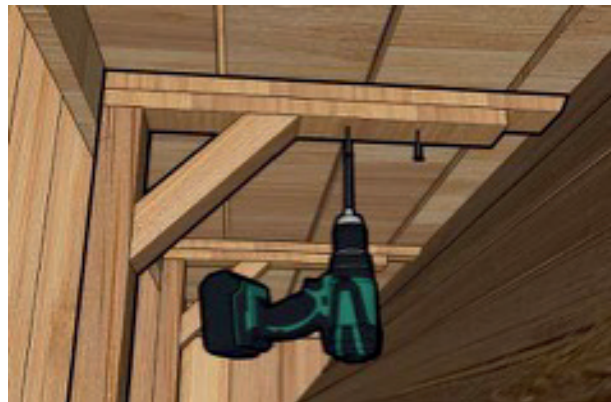
37

 **8X**
1 1/2" (38mm) Robertson



Prepare the bench supports by placing two screws into the pre-drilled holes for each support.

38



Line the bracket up with the support on the bottom of the bench and secure it with the pre-placed screws.



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Cascade Sauna Assembly Instructions

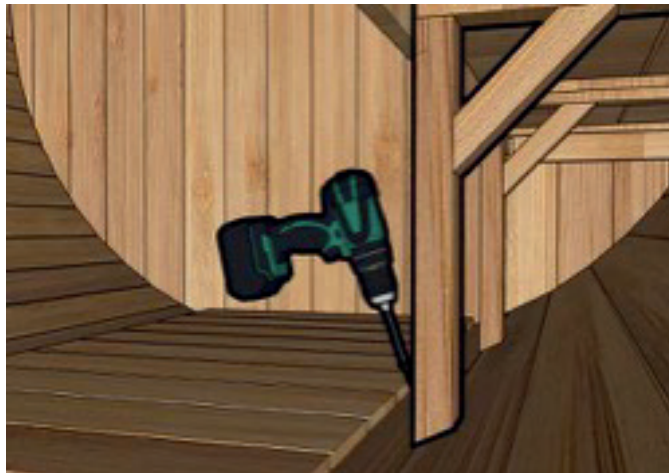
BENCH assembly & installation

39



4X

1 1/2" (38mm) Robertson



Square up the bench support and use a screw in the pre-drilled hole to secure it to the sauna floor. Repeat this process for the remaining bench supports.

40



41



Place the outer door handle at desired height.

Ensure it is centered and secure with screws.

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Rate
Outdoors

Cascade Sauna Assembly Instructions

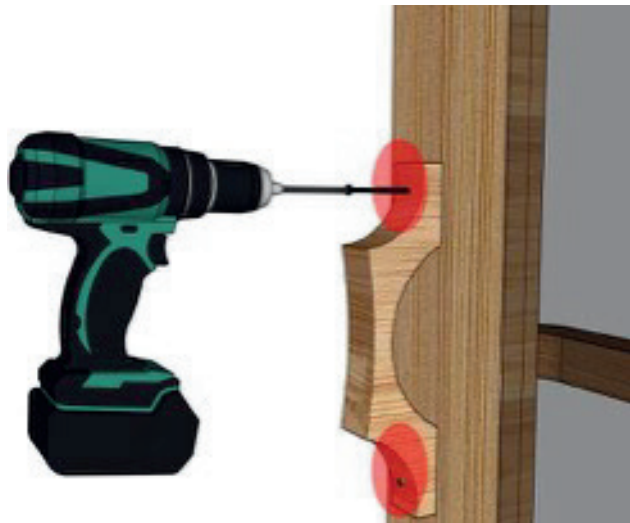
DOOR HANDLE installation

42



2X

2 1/2" (64mm) Robertson



Fasten with 2 screws in the pre-drilled holes.

43



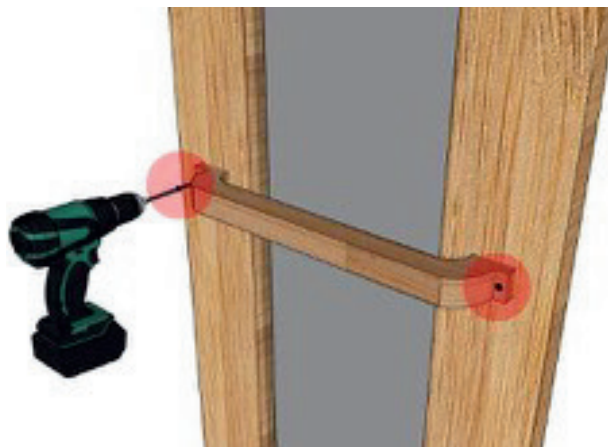
Place the inner door handle at desired height.

44



2X

2 1/2" (64mm) Robertson



Fasten with 2 screws. Ensure handle is installed level and secure.

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Rate
Outdoors

Cascade Sauna Assembly Instructions

SHINGLE installation

45

If you are adding the optional roof to your sauna follow STEPS 45-62. If not please continue to STEP 63.

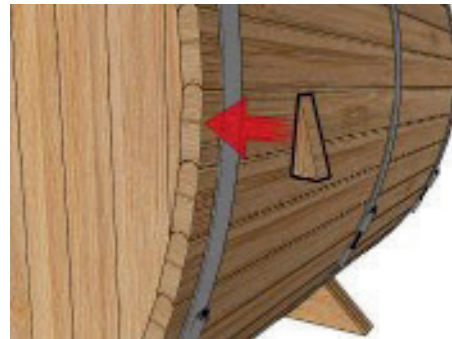
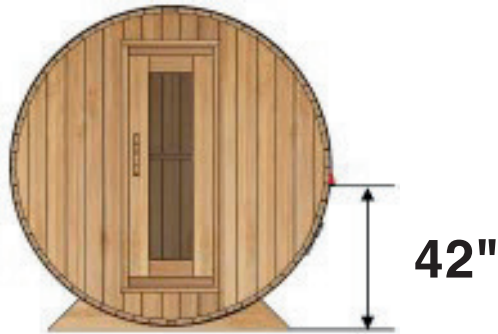


 **12X**
2" (51mm) Robertson



Pre-place 2" (51mm) screws into the middle of each triangle support piece.

46



Install the first triangle support piece 42"(1067mm) from the base of the sauna.

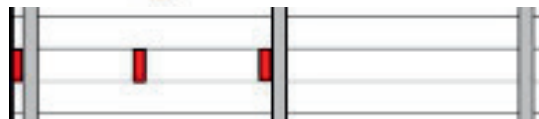
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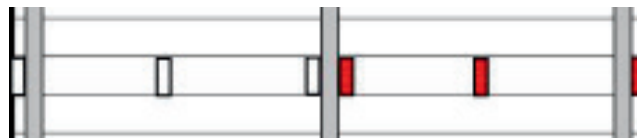
Cascade Sauna Assembly Instructions

SHINGLE installation

47



Install the next triangle support in the middle of the sauna. Add a third triangle support centered between these two supports (See image above for spacing).



Install another triangle at the opposite end of the sauna. Install the next triangle support in the middle of the sauna and add a third centered between these two supports. There should be 6 triangle supports installed to this side of the sauna.

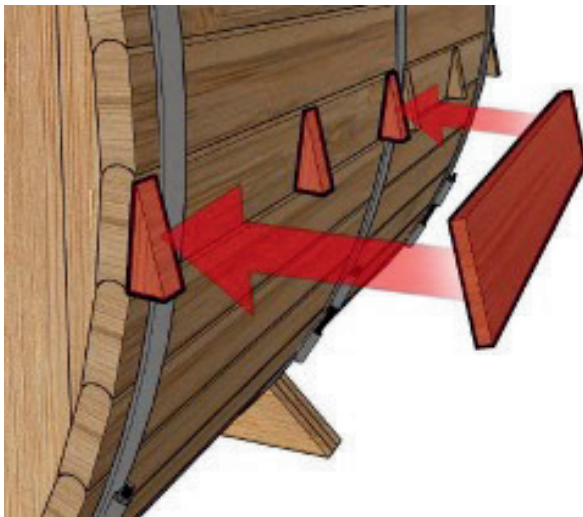
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Cascade Sauna Assembly Instructions

SHINGLE installation

48

  **6X**
2" (51mm) Robertson

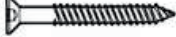


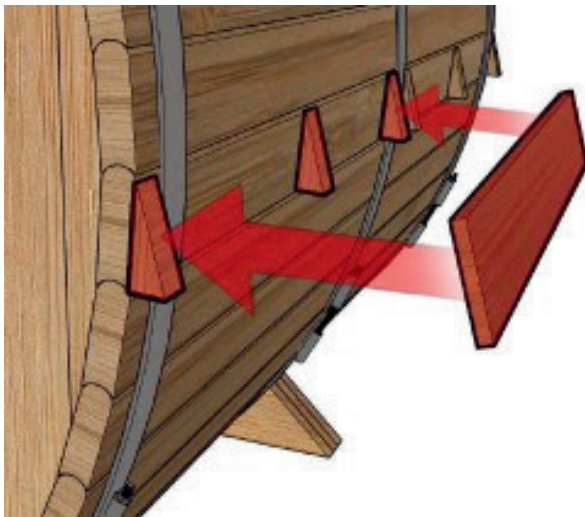
Place the ice and water support boards flush to the bottom of the triangle supports and secure with screws in each of the triangle supports.

Cascade Sauna Assembly Instructions

SHINGLE installation

49

  **6X**
2" (51mm) Robertson



Place the ice and water support boards flush to the bottom of the triangle supports and secure with screws in each of the triangle supports.

Cascade Sauna Assembly Instructions

SHINGLE installation

50

Repeat STEPS 46-49 to add ice and water support boards for the opposite side of the sauna.



51

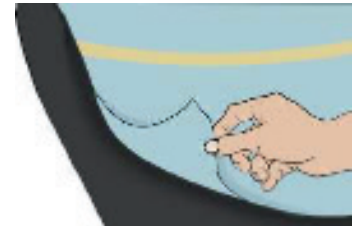
 1 1/4"
Staples



Glossy strip

Peel the film off of the sheet of ice and water shield. Make sure it is aligned with the bottom of the support boards. Secure the shield with staples along the ends to hold in place.

PLEASE NOTE: The glossy strip of the ice and water shield should be placed on the top.



52

Follow STEP 51 for the opposite side of the sauna.

53



Continue with the next strip of ice and water shield for the top of the sauna. Ensure to overlap the top with the smooth portion of the previous strip on either side.

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Rate
Outdoors

Cascade Sauna Assembly Instructions

SHINGLE installation

54



1 1/4"

Staples



Fold the ends of the ice and water sheeting over and staple the ends of the side wall board to the sheeting. Do this for both the front and back of the sauna.

55



Using a utility knife cut the excess sheeting off both the front and back of the sauna frame.

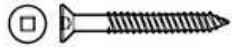
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Cascade Sauna Assembly Instructions

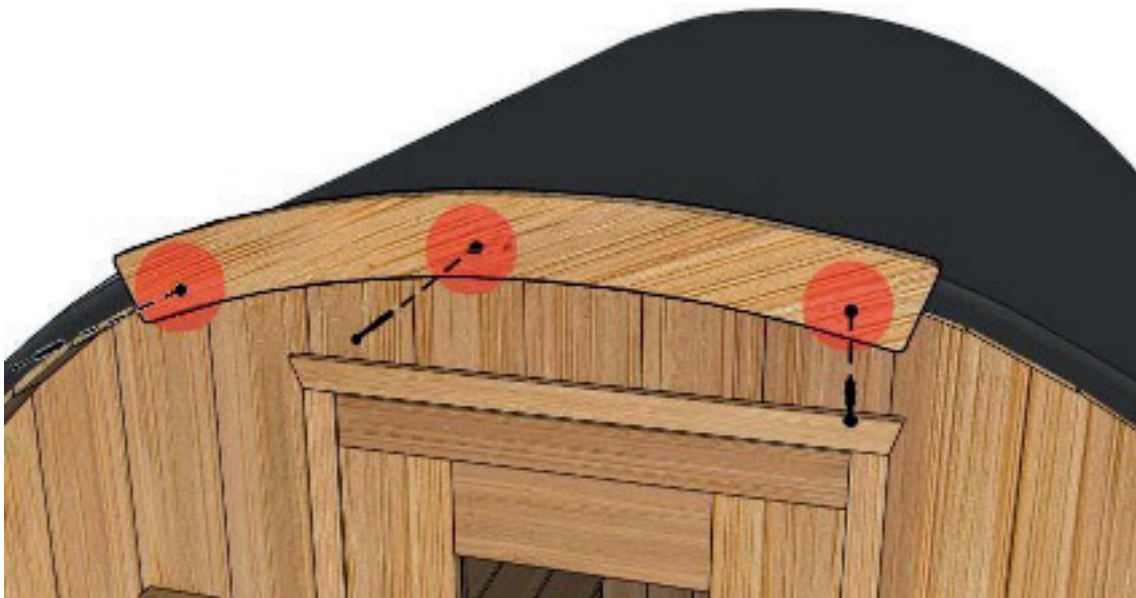
SHINGLE installation

56



3X

1 1/2" (38mm) Robertson



Position the first piece of trim to the front of the sauna frame. Fasten with three screws.



Rate
Outdoors

Cascade Sauna Assembly Instructions

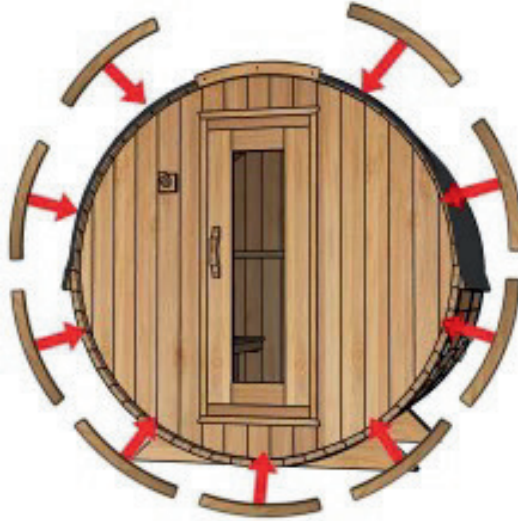
SHINGLE installation

57



3X per piece

1 1/2" (38mm) Robertson



Continue working around the rim of the sauna adding more trim pieces on each side working your way to the bottom. Add 3 screws to secure each trim piece. The trim for the back of the sauna will be added later.

PLEASE NOTE: The last trim piece installed may need to be cut if the fit is too tight.

58



Roofing Nails



Begin placing shingles along the edge of the sheathing on the roof. Continue adding shingles along this row to the back of the sauna.

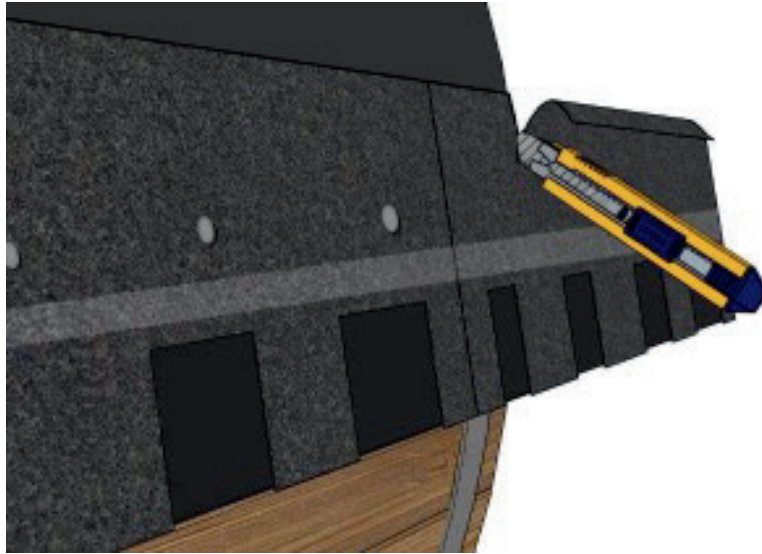
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Cascade Sauna Assembly Instructions

SHINGLE installation

59



When you get to the back of the sauna, cut off the excess shingle to use for the next row.

60



Roofing Nails



Continue adding rows overlapping the previous row of shingles. Ensure you check the details on the shingle package for more details. Once you get to the center near the top of the sauna, start the process on the other side of the sauna working your way up to the top again.

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Rate
Outdoors

Cascade Sauna Assembly Instructions

SHINGLE installation

61



Roofing Nails



When you get to the last row on this side, secure the top row with roofing nails in the top and middle of the shingle.

62

Follow STEPS 56-57 for the trim to be added on the back rim of the sauna.

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Cascade Sauna Assembly Instructions

VENT installation

63

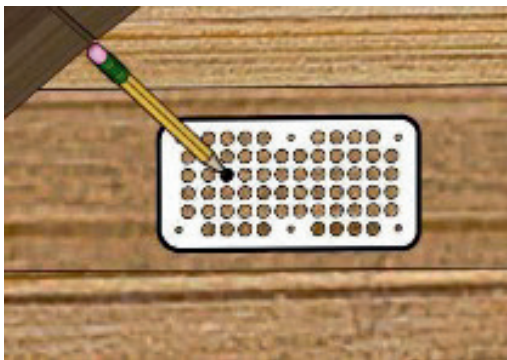


Position the vent cover on the upper front wall on the inside of the sauna.



The vent can also be positioned vertically depending on your preference.

64



Using the vent cover as a template mark off the dots as shown with a pencil.

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Cascade Sauna Assembly Instructions

VENT installation

65

2" (51mm) Hole Saw Recommended
1 1/2" (38 mm) Minimum



Remove the vent cover and use a two inch hole saw to add two holes side by side for the vent. Add each hole between the four pencil marks etched on the wall from Step 64.

PLEASE NOTE: Only drill half way through the wall to avoid splintering the wood.

66



Continue drilling out the holes from the outer wall of the sauna.
On the outer wall of the sauna position put the vent cover over the two holes.

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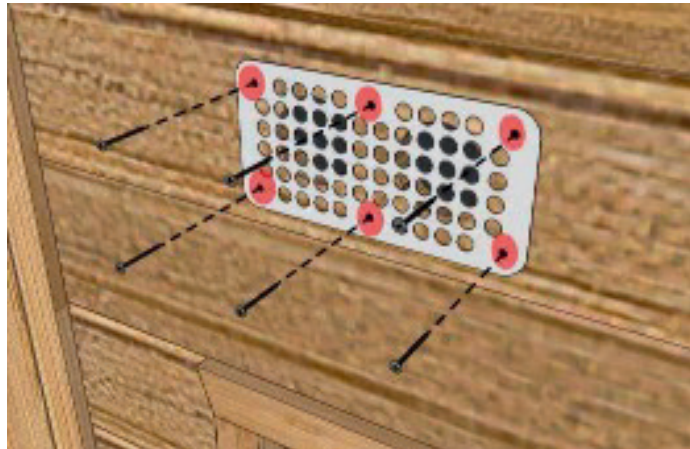


Cascade Sauna Assembly Instructions

VENT installation

67

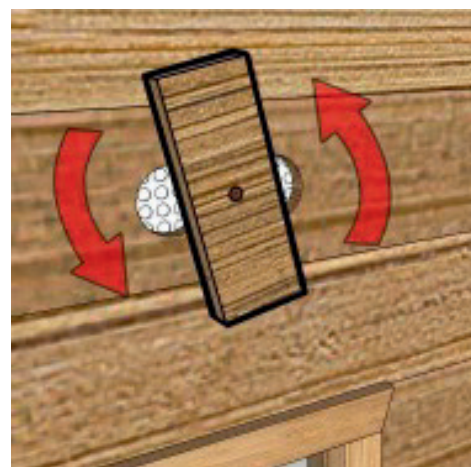
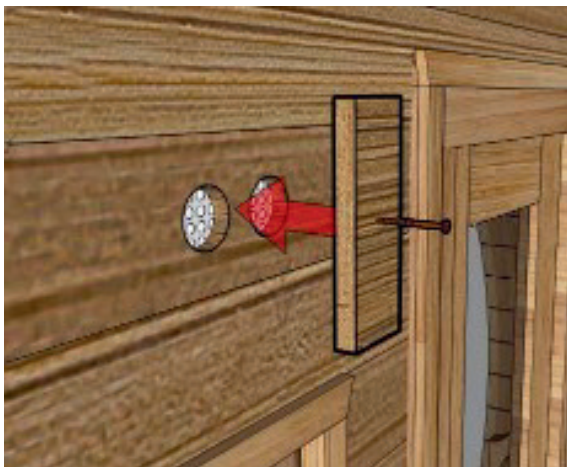
 **6X**
Provided screws



Fasten the vent cover on the outside wall with the six provided screws.

68

 **1X**
1 1/2" (38mm) Robertson



Add a screw to the provided wooden block in the pre-drilled hole.
Position and fasten the block between the two cut-out holes.

PLEASE NOTE: Only tighten the wooden block enough that it may swivel firmly.

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Cascade Sauna Assembly Instructions

VENT installation

69



Install a second vent under the bench against the back wall using STEPS 83-86.

That concludes the basic instructions for the
Rate Outdoors Cascade Sauna

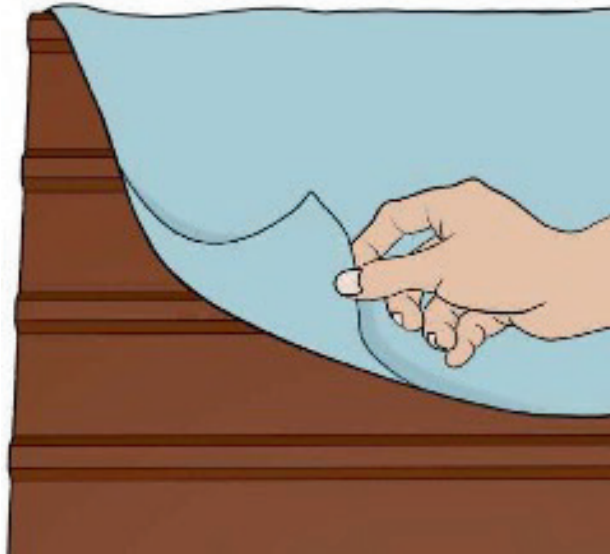
If you have any accessories left to install or will be in the near future please continue on to the next section.

We hope you enjoy your sauna.

Cascade Sauna Assembly Instructions

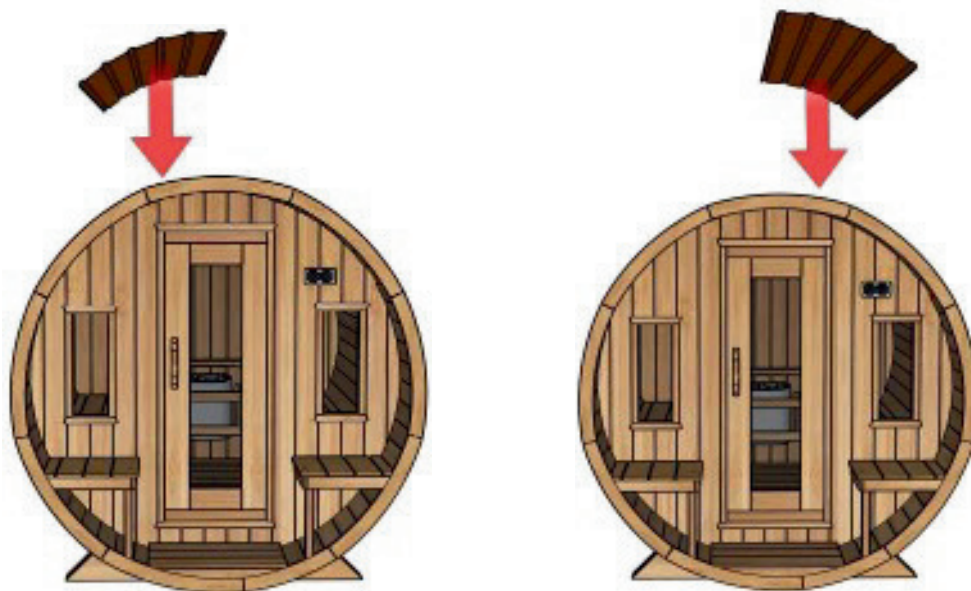
METAL ROOF installation

70



Prepare the metal roofing panels for installation by carefully removing the plastic wrapping and packaging.

71

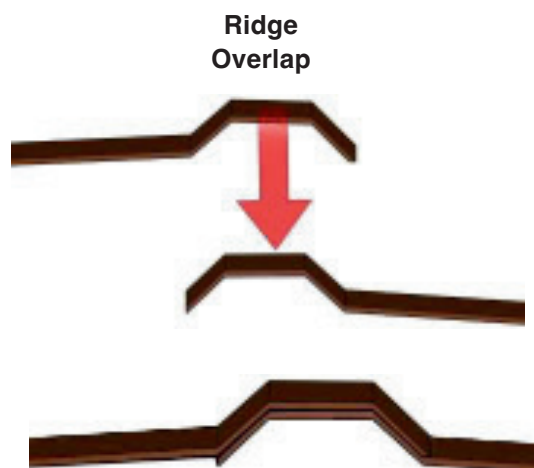
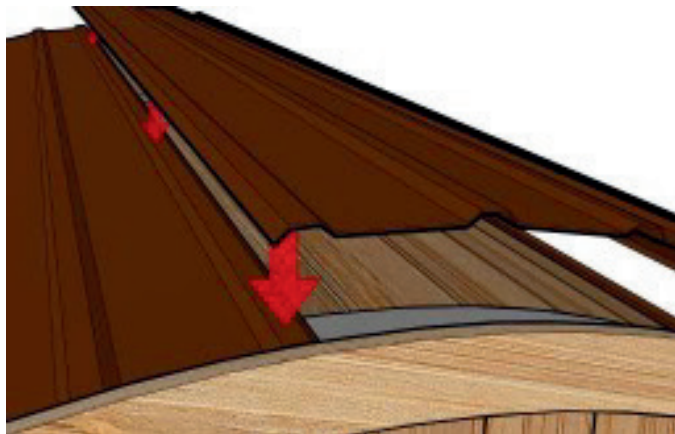


Place the first two metal roof panels to the top of the sauna.

Cascade Sauna Assembly Instructions

METAL ROOF installation

72



Overlap the last ridge of each of the metal panels together and ensure they are centered on the sauna top.

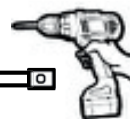
73



8X

Self Tapping Roof Screws

1/4" (6mm)



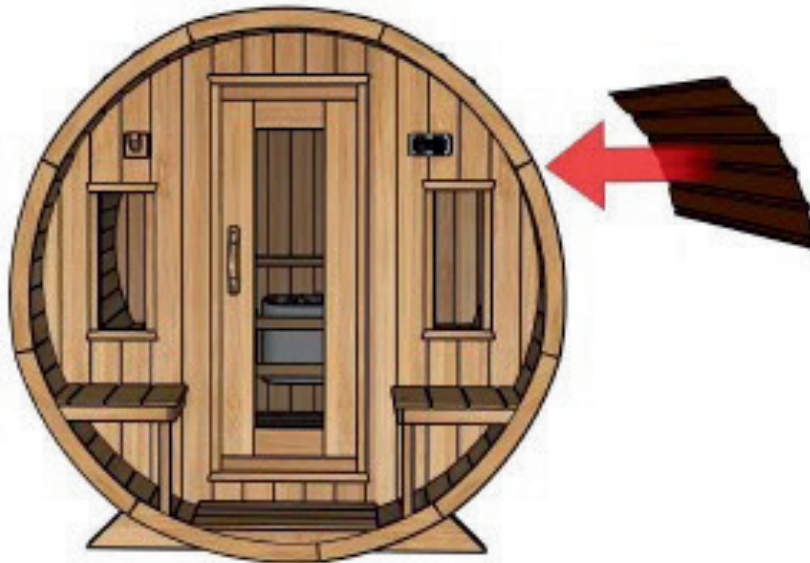
Secure the overlap of both panels with 8 self-sealing roofing screws.

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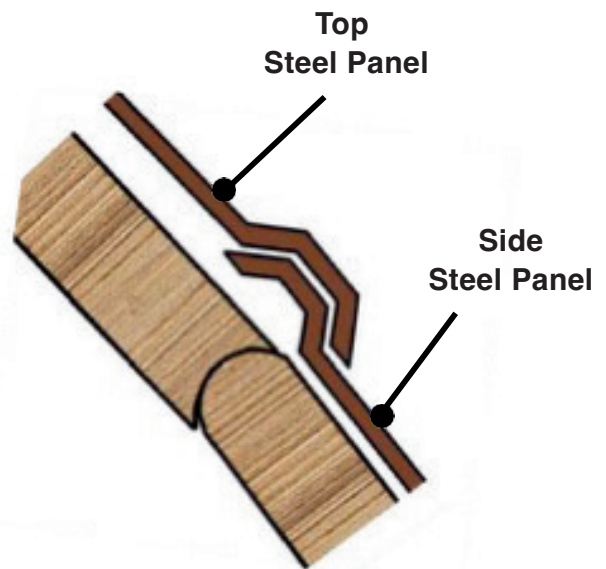
Cascade Sauna Assembly Instructions

METAL ROOF installation

74



Add one of the side panels.



When adding the side steel panels ensure that the top panel ridge overlaps and covers the side panel ridge (see image above). This will prevent leaking between panels.



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Outdoors

Cascade Sauna Assembly Instructions

METAL ROOF installation

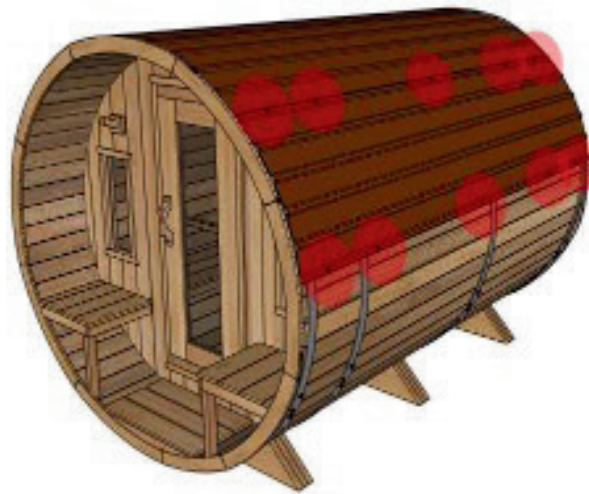
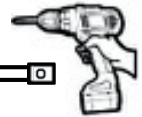
75



10X

Self Tapping Roof Screws

1/4" (6mm)



Secure the side panel with 5 self-sealing roofing screws on the top and bottom ridge.

76



Repeat STEPS 93-94 for the side panel on the opposite side of the sauna.

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Cascade Sauna Assembly Instructions

METAL ROOF installation=

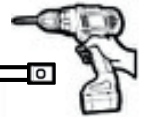
77



1X

Self Tapping Roof Screws

1/4" (6mm)



Place a final self-sealing screw into the center of the roof.
Add more screws into any of the ridges if necessary.

78



The assembly of your metal roof is now complete!
Watch the metal roof assembly video for more details



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Cascade Sauna Assembly Instructions

ACCESSORY install section

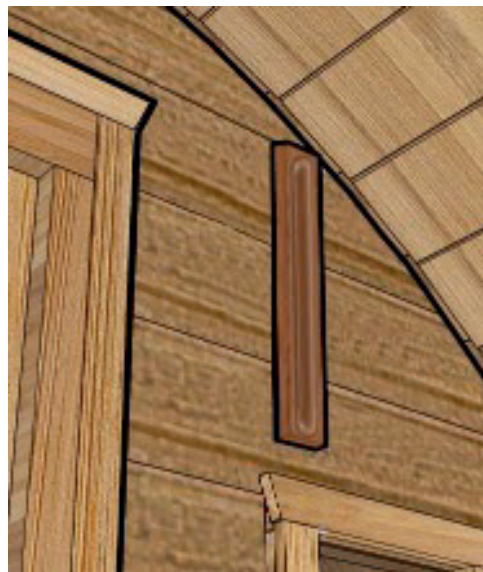
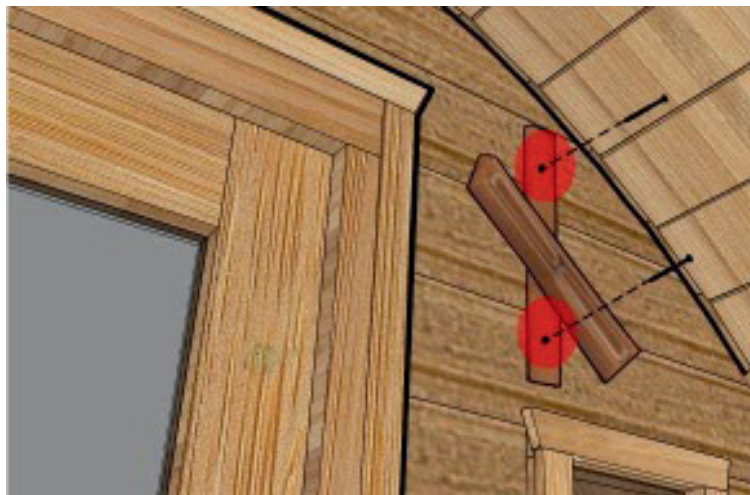
Sand Timer (Optional)

79



2X

1 1/2" (38mm) Robertson



Place the sand timer in the desired location and secure with screws in the pre-drilled holes. Ensure it is in position and level so it may rotate without hitting the wall.

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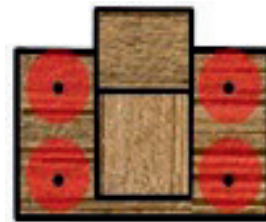
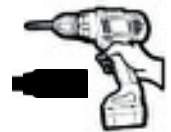


Cascade Sauna Assembly Instructions

ACCESSORY install section

Single Towel Hook

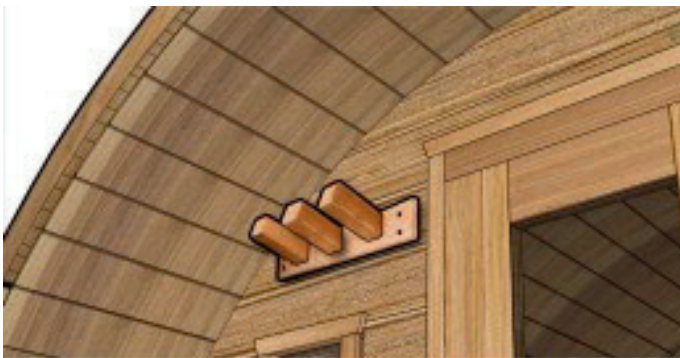
80   **4X**
1 1/2" (38mm) Robertson



Place the towel hook in desired location and secure with screws in the pre-drilled holes.

3 Towel Hook

  **4X**
1 1/2" (38mm) Robertson



Place the towel hook in desired location and secure with screws in the pre-drilled holes.

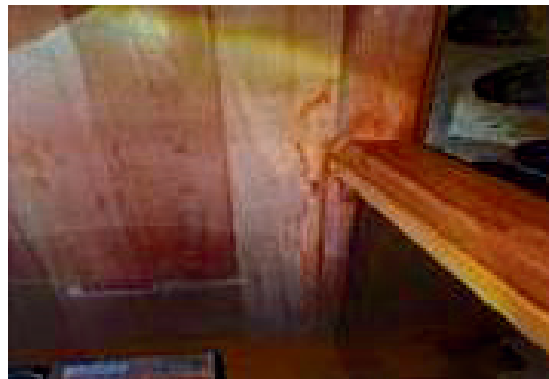
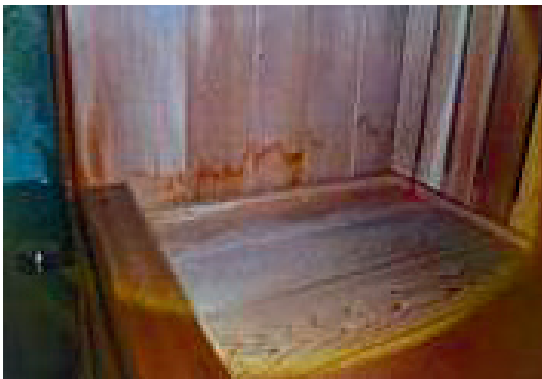
MAINTAINING YOUR SAUNA AFTER INSTALLATION

INTERIOR

It is recommended to vacuum or sweep out the inside of your sauna frequently to remove dirt and debris. Under normal conditions, a slight wash of the floor and benches with warm soapy water several times a year will maintain its cleanliness. Leisurecraft offers a sauna room cleaner that can be used pure or diluted at a 4-1 ratio. Simply spray and wipe!

You can use a sheet of fine grit sandpaper or a low-pressure wash to remove more stubborn stains for a deeper cleaning of the interior of your sauna.

Never use ammonia or harsh cleaners as they can turn the wood gray.



EXTERIOR

Depending on the humidity and weather conditions in your area, the cedar will either shrink or expand based on the amount of moisture absorption. The desired effect is to have the cedar expand into the bands therefore making the sauna staves much tighter. Over time the lumber will weather naturally as a result of sun and rain, it will change into a weathered grey colour. The natural weathering will not harm the wood or impair the sauna's performance.

If you wish to retain the natural color of your Leisurecraft Sauna, Leisurecraft offers cedar sauna stain in 4 amazing colors, Espresso, Limestone Trail, Onyx Gem, and Pickled White in convenient 1 gallon pails.

WATER SEEPAGE

Some minor water seeping into the sauna is expected and normal for an outdoor sauna. If your sauna is properly installed, you should not have water dripping in, but you should expect some water seepage, especially on the top and sides of the sauna. This is due to the porous characteristics of the wood and to the ball-and-socket profile design of the staves. Water seepage will not harm the sauna. The moisture will evaporate once you turn on the heater and the sauna heats up. If the water marks are bothersome, they can be easily removed with a light sanding with 80 or 100 grit sandpaper.

This product manufactured by





Warranty provided by:



5 Year Residential Limited Warranty Policy

All products designed and manufactured by Dundalk LeisureCraft Inc. ("LeisureCraft") are covered by a limited warranty against defects in materials and workmanship under normal residential use for a period of five (5) years, beginning on the date the product is received by the original end-user consumer.

This warranty does not apply to defects resulting from normal wear and tear, improper installation, insufficient or improper maintenance, natural weather conditions or failure to follow the manufacturer's installation, usage, or care instructions.

In the event of a valid warranty claim, LeisureCraft will provide replacement parts at no charge. However, please note that the replacement of parts will not extend the original warranty period.

This warranty is limited solely to the replacement of parts and does not cover any associated service, labor, or installation costs, all of which are expressly excluded.

For products offered by LeisureCraft that are not manufactured by LeisureCraft, please refer to the warranty policy and terms provided by the manufacturer.

LIMITED WARRANTY

Dundalk LeisureCraft Inc. ("LeisureCraft") is committed to providing high-quality sauna heaters and accessories to our customers. To offer peace of mind, we will match the manufacturer's warranty on all eligible products purchased from us. If the manufacturer offers a warranty on the product, we will honor that warranty, ensuring the same terms, coverage, and duration.

This warranty is limited to the replacement of parts only. It does not cover any service, labor, or installation costs, which are expressly excluded.

This warranty does not apply to defects caused by normal wear and tear, improper installation, inadequate or improper maintenance, or failure to adhere to the manufacturer's installation, use, or care instructions.

All electrical connections must be made by a licensed electrician. Failure to comply with this requirement will void the warranty.

For any warranty claims, please contact RATE OUTDOORS at support@rateoutdoors.com and see the link on our website for more information.

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