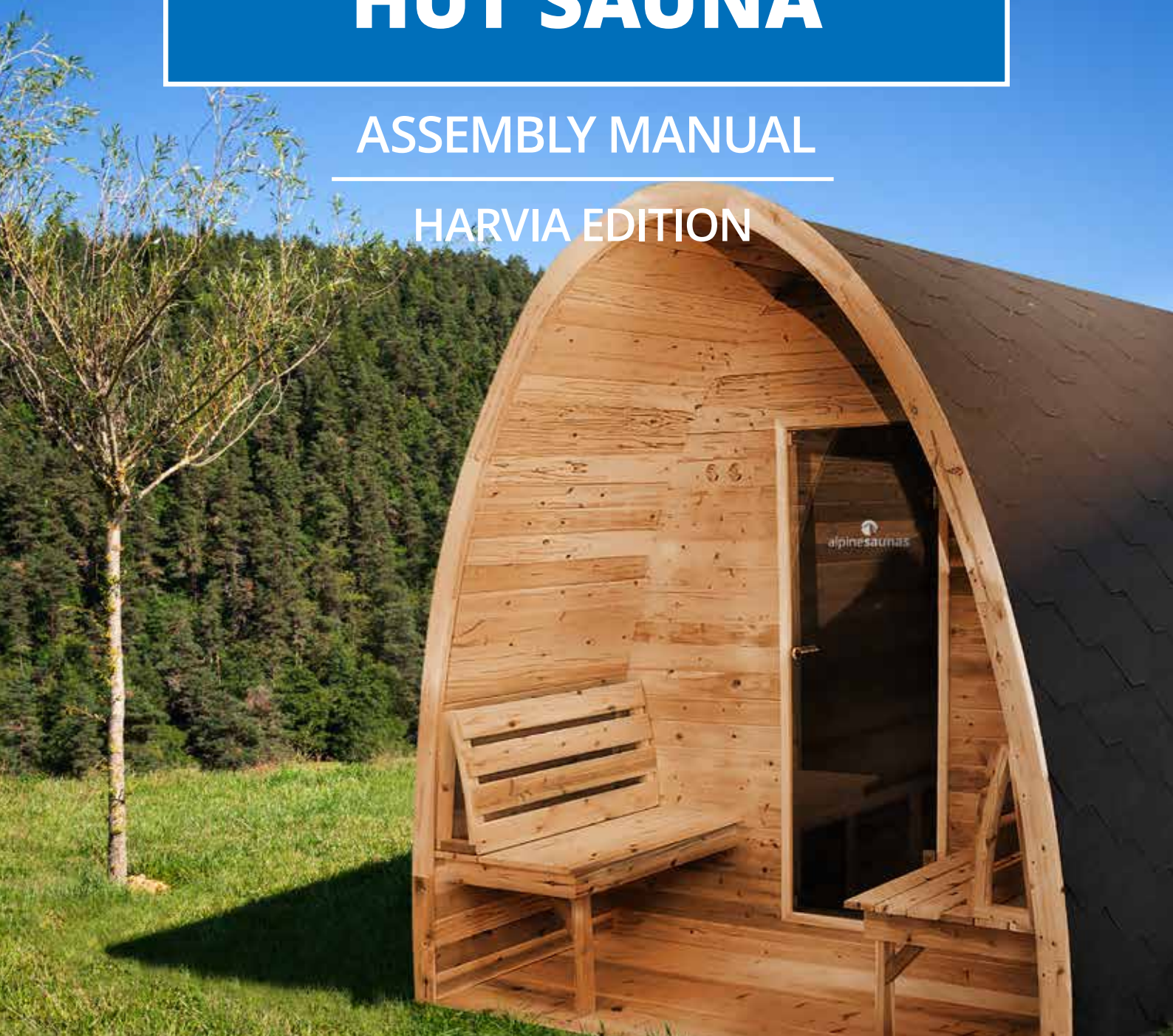




HUT SAUNA

ASSEMBLY MANUAL

HARVIA EDITION



1. BEFORE YOU START



IMPORTANT! READ THIS SECTION ENTIRELY BEFORE PROCEEDING WITH INSTALLATION.

LOCATION

Think carefully about where you want to locate the sauna. After you have completed the installation the sauna won't be able to be moved due to its size and weight. The sauna will need to be in a location that can have power access installed. Confirm the electrical supply with your electrician before building the sauna.

OILING YOUR SAUNA TIMBER

Wood being a natural product, requires regular maintenance to protect it and keep it looking good. Any wood product that is exposed to the Australasian sun needs regular surface treatment with a U.V protectant timber oil.

The cedar is supplied unoiled. As part of the ownership of a natural wood product, you must also be prepared to re-oil the external surfaces of cedar up to every 6 months (frequency will be determined by location and exposure to sunlight).

Leaving the sauna unoiled will see discolouration of the wood and will cause it to dry out, increasing the chances of cracking or splitting.

Only the external facing wooden surfaces need to be oiled. Never oil internal surfaces.

We recommend a 'clear coat timber protectant oil' such as 'CD-50'. Available from hardware stores such as Mitre 10 or Bunnings.

Simply oil using a paintbrush and brush on an even coat. Follow the product application and preparation directions.

To oil all external surfaces you will need a fair amount of product. It is worth just getting up to 10 litres of product as you will need it again to repeat in 6 months' time.





ELECTRICS - HEATER

The provided sauna heater must be installed by a registered electrician. No wiring, switches, RCD or electrical accessories are included.

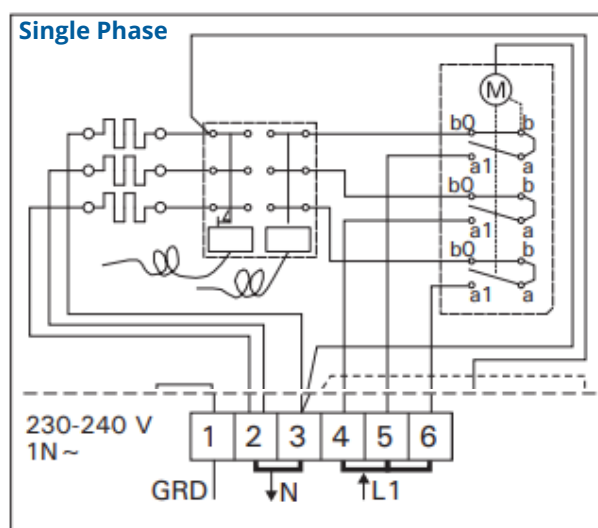
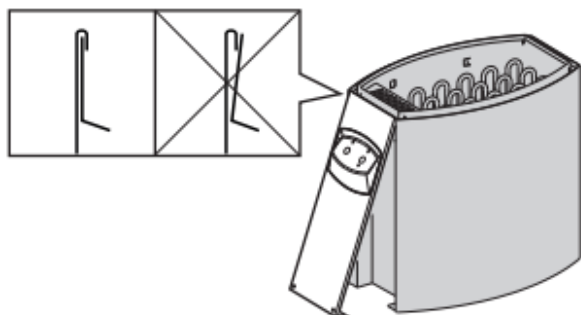
Setup

Install the heater as per the manufacturer instructions included, along with any electrical protective devices. The heater is to be mounted near ground level on the 'back wall' and surrounded by the provided wooden heater fence.

Cable for the heater can be fed through the back of the sauna through rear wall next to the vents. You will need to drill a hole to run the cable through.

Single Phase

For single phase installations, lines 4, 5 and 6 should be looped together with phase into 5 per the diagram above.



2. IMPORTANT SAFETY & GENERAL INFORMATION



PLEASE READ ENTIRE MANUAL THROUGH BEFORE PROCEEDING WITH INSTALLATION.

SAFETY & OPERATION

Read all health and safety instructions. If unsure about your health concerns, consult with your physician prior to use. If you feel light-headed or heat exhaustion during session, exit the sauna immediately.

1. Read and follow all instructions carefully.
2. When installing and using the electrical equipment, basic safety precautions should always be followed.
3. To reduce the risk of injury, do not allow children to use the sauna unless they are closely supervised at all times.
4. Do not use the sauna immediately following strenuous exercise. Wait at least 30 minutes to allow the body to cool down completely.
5. Excessive temperature has a high potential for causing fetal damage during the early months of pregnancy. Pregnant or possibly pregnant women should contact their physician prior to using the sauna.
6. Hypothermia Danger: Prolonged exposure to hot air will induce hypothermia. Hypothermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 37°C.
While hypothermia has many health benefits, it is important not to allow your body's core temperature to rise above 39.4°C. Symptoms of excessive hypothermia include dizziness, lethargy, drowsiness, and fainting.
7. The use of alcohol, drugs, or medications prior to or during the sauna session may lead to unconsciousness.
8. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems, or diabetes should consult a physician prior to using the sauna.
9. Persons using medications should consult a physician before using the sauna since some medications may induce drowsiness while others may affect heart rate, blood pressure, and circulation.
10. Never sleep inside the sauna while the unit is in full operation.
11. **DO NOT** use any type of cleaning agents on the interior of the sauna.
12. **DO NOT** stack or store any object on top of or inside the sauna.
13. If power supply cord becomes damaged it must immediately be replaced by a service technician. Please contact your local dealer for assistance.
14. **DO NOT** use the unit during an electrical storm, as there is a remote risk of shock.
15. Altering or tampering of any electrical connections on the power supply will void the manufacturer's warranty.
16. Dry your hands before handling electrical controls. Never unplug the power cord or adjust the controls with wet hands or when you have wet bare feet. A danger of electrical shock exists.
17. **DO NOT** attempt any repair without consulting the manufacturer first. Unauthorized repair attempts will void the manufacturer's warranty.
18. All natural wood articles have variations in the color, grain, and irregularities such as knots, and fine cracks. These characteristics are a part of the natural beauty of the wood, and in no way should be considered defective.



DOWNLOAD THE OUTDOOR SAUNA USER & MAINTENANCE GUIDE

ALPINESPAS.CO.NZ/SUPPORT
ALPINESPAS.COM.AU/SUPPORT

WOOD & EXPECTATIONS

This Hut Sauna is designed for outdoor use.

The lumber is naturally resistant to the elements. Rain and sun will not damage the wood, although natural weathering and coloring of the wood will occur over time.

The cedar is rustic cedar, so expect there to be slight imperfections and knots, this gives the barrel sauna its beautiful rustic look and feel. Because of the knots and being softwood, the staves will tend to bend out of line on their own. This is completely normal and will be self corrected as the Sauna is built.

Properly assembled, you should not experience water dripping into the sauna. However, you will experience water seepage, especially on the top and sides of the sauna. This is because of the porous characteristics of the wood and due to the ball-and-socket profile design of the staves.

Water seepage WILL NOT hurt the sauna and in most cases will dry quickly in the hot, dry environment when the sauna is in use. If you wish to keep your sauna completely dry at all times, then you should place it under a covering or structure with a roof. Light sanding will help to alleviate water stains.

WARRANTY

INDOOR SAUNAS*: Alpine Spas warrant the workmanship against defects in materials and workmanship for a two-year period from date of delivery. Electronics and parts also carry a 2-year warranty.

OUTDOOR SAUNAS*: Alpine Spas warrant the workmanship against defects in materials and workmanship for a 5-year period from date of delivery. Electronics and parts also carry a 2-year warranty.

**After 12 months this warranty is limited to supply of replacement parts and excludes labour.*

3. PRE-ASSEMBLY CHECKS

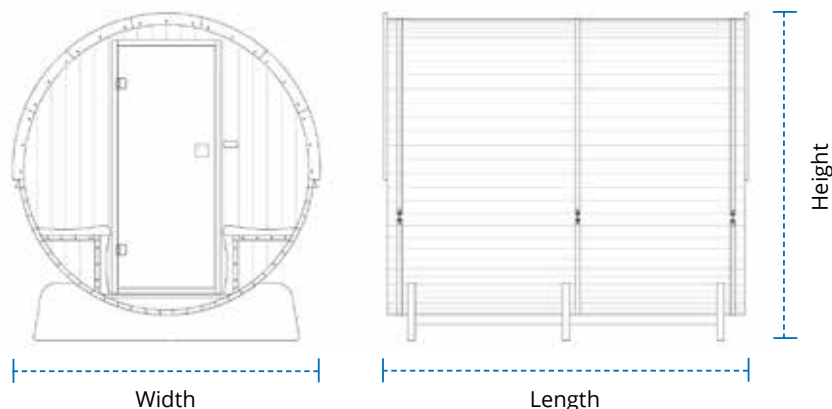
FOUNDATION

An outdoor sauna can weigh up to 600kg once assembled, therefore requires a sturdy foundation. This needs to be a flat, level surface that supports the entire weight of the sauna and users. We recommend using either a concrete slab or a pile foundation. The base of the sauna must not rest upon anything that will degrade the quality of the timber (soil, grass etc.)

Your foundation should have some form of drainage or contour, allowing storm water to drain away from the base of the sauna. If you find after creating the foundation that your sauna base does not sit level, use packing shims or similar to correct to level positioning.

Once your outdoor sauna has been assembled, it becomes near impossible to move great distances. Therefore assembling the sauna in its desired location, or very close to, is strongly advised. Moving your assembled sauna can potentially cause damage or alter its performance, which may void the warranty. Refer to the below table for the assembled measurements of your outdoor sauna. Use these as a reference when planning your foundation.

| Item | Width (cm) | Length (cm) | Height (cm) | Weight (kg) |
|------------|------------|-------------|-------------|-------------|
| Barrel | 190 | 228 | 204 | 440 |
| Vista Mini | 190 | 169 | 204 | 420 |
| Vista | 190 | 228 | 204 | 440 |
| Cabin | 196 | 196 | 216 | 516 |
| Hut | 248 | 290 | 250 | 530 |



Foundation Requirements

Below is a table which covers the minimum dimensions required for an outdoor sauna foundation.

| Item | Width (cm) | Length (cm) | Thickness (cm) |
|------------|------------|-------------|-----------------|
| Barrel | 210 | 248 | 10 (Reinforced) |
| Vista Mini | 210 | 189 | 10 (Reinforced) |
| Vista | 210 | 248 | 10 (Reinforced) |
| Cabin | 216 | 216 | 10 (Reinforced) |
| Hut | 268 | 310 | 10 (Reinforced) |





TOOLS

Tools required include screw drivers set, power drill set, measuring tape, level, mallet, socket set, oiling brush and roller.



MALLET INCLUDED



RESOURCES



TIMBER PROTECTION OIL



WATERPROOF SILICONE FOR BITUMEN ROOF

OPTIONAL



STAPLER ASSISTS WITH ATTACHING BITUMEN ROOFING

4. INSTALLATION INSTRUCTIONS

Installing the Base

1. To start the base, on a flat level surface lay out a rectangular shape using 2x "Front & Rear Base Supports" and 2x "Base Joists". If you received oiled joist pieces, use these first. The "Front & Rear Base Supports" have pre-drilled countersunk holes.



2. Place 4 "Base Joists", evenly spaced, inside the rectangle lining them up with the pre-drilled countersunk holes on the "Front and Rear Base Supports".



3. Fix the four corners of the base together first using 4x "4*40mm Screws".



4. Ensure the inside joists are level and square before screwing into the "Front & Rear Supports". Any marks made while leveling will be covered up later with the rest of the build.



5. Using the pre-drilled holes available, fix the "Base Joists" into the "Front & Rear Supports" using 8x "4*40mm Screws".





Laying the Floor

6. Install the joist supports to help strengthen the joists.



7. Lay the "1PC First Piece" floor plank across the front of the base. Using 12x "4*40mm Screws" fix the plank into the base, making sure you screw separately into the front Support and matching joist, 2x screws per row. Note there are no pre-drilled holes.



8. Begin laying and fitting together the 'Regular Floor Planks' from the front of the sauna (using the oiled planks first if sauna kit is pre-oiled). Butt-up 3 planks together at a time. Use the provided mallet to lightly tap the planks tight before fixing each one. Then use the "4*40mm" screws to secure each "Regular Floor Plank" to each "Base Joists" and "Front & Rear Supports".
TIP : Use your hand to maintain the pressure, keeping the "regular Floor Planks" tight.



9. Continue laying and fixing the planks to the base. The second-to-last plank should be the "Regular Stave w/ Vent".



10. The last plank to be laid is the "1PC Last Piece". Fix to the base using 6x "3*30mm Screws". Your floor planks should finish up slightly short on top of the "Rear Support".



11. Place "Special Stave 1" on the left-hand side of the floor and "Special Stave 2" on the right-hand side, grooves facing inwards (oiled side facing outwards if sauna kit is pre-oiled).



4. INSTALLATION INSTRUCTIONS

Starting the Walls

- 12.** Fix "Special Stave 1" and "Special Stave 2" into the floor using a total of 10x "5*70mm Screws", 5 screws for each side (holes have been predrilled to accommodate).



- 13.** Slot "Special Stave 3" in between the grooves towards the front end of the floor with its dowels right-side up.



- 14.** Fix "Special Stave 3" into the floor using 5x "5*70mm Screws" (holes have been predrilled to accommodate). Use a level or square to ensure the stave is straight when fixing to the floor.



- 15.** Slot "Special Stave 5" in between the grooves at the back end of the floor (oiled side facing outwards if sauna kit is pre-oiled) with the dowels right-side up. Fix into the floor using 5x "5*70mm Screws" (holes have been predrilled to accommodate). Use a level or square to ensure the stave is straight when fixing into the floor.



- 16.** Fit "Special Stave 4" over the dowels of "Special Stave 3" (oiled side facing outwards if sauna kit is pre-oiled). Fix together using 4x "5*70mm Screws" (holes have been predrilled to accommodate).



- 17.** Fit the "Back Panel" over the dowels of "Special Stave 5" at the back of the Sauna (oiled side facing outwards if sauna kit is pre-oiled).





Adding the Front & Rear Walls

- 18.** Secure the "Back Panel" into "Special Stave 5" using the "5*70mm" screws on each side.



- 19.** Add 2x "Regular Staves", one each on top of "Special Stave 1 & 2". Use 2x "4*40mm Screws" on each side to screw the staves into the "Back Panel" and Special Stave 4.



- 20.** Place the "Front Left Wall" over the dowels of the previously installed "Special Stave 4" and have someone hold it in place while you add 2x more 'Regular Staves' across the front and back wall. Tap the staves together tight with the mallet and screw the regular staves into the Front Left Wall and Back Panel using 2x "4*40mm Screws".



- 21.** Repeat this for the "Front Right Wall".



- 22.** Add and screw in "Regular Staves" on both sides of the sauna until they are level in height with the "Back Panel".



- 23.** Add the "Back Panel Top Half" over the dowels of the "Back Panel Bottom Half" (oiled side facing outwards if sauna kit is pre-oiled). Secure this in place on each side using the "5*70mm" screws, pre-drilling required.



4. INSTALLATION INSTRUCTIONS

Adding the Front & Rear Walls (continued)

- 24.** Insert the “Door Frame” between the “Front Left Wall” and the “Front Right Wall”. Lift above the two walls and slide down between them.



- 25.** Continue adding “Regular Staves” to the left and right sides and screwing with “4x40mm Screws” until you are level in height with the top of the front and back walls.



- 26.** Install the “Front Wall Top Piece” onto either end of the sauna, fitting them over the dowels. (You may need to pull back a stave either side to help the top pieces fit into place).



- 26. a** Secure these in place on each side using the “5*70mm” screws, pre-drilling required.





Assembling the Top Quarter

- 27.** Continue installing and screwing in “Regular Staves” across the back wall and front wall top pieces but STOP screwing when there is roughly room for 8 more staves.



- 28.** At this point the remaining staves need to be added without being screwed. Two final “Top Stave” pieces are provided in slightly different widths to accommodate for the wood shrinking or expanding. Select the most appropriate one and loosely insert.



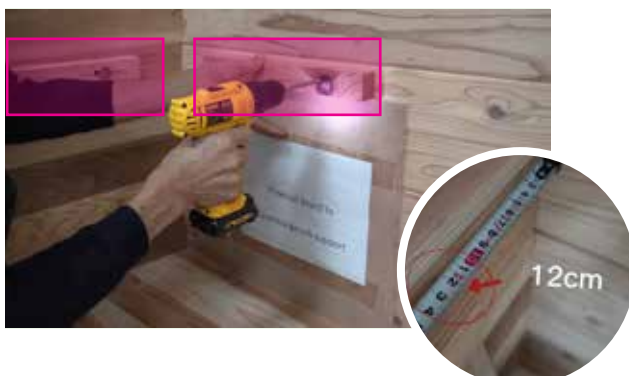
- 29.** The unscrewed 8 staves need to be knocked around into place using the mallet, forming the best-rounded arch possible.



- 30.** Working with the most outer unscrewed stave first, screw the staves in one by one while using the mallet to keep the arch formation. Switch from back side to front side as necessary.



- 31.** Using the 40*40cm plywood board to get the install height, install the “Outside Bench Supports” onto the front wall and the “Outside Bench Support with Bevel” onto the regular staves that makes up the side wall using 4*40mm screws. Space the supports 12cm off the corner where the front wall meets the side wall.



4. INSTALLATION INSTRUCTIONS

Installing the Outside Bench Seats

- 32.** Install the "Outside Bench Leg Supports" into the "Outside Bench Seats" using the "6*35mm flat head camlock screws".



- 33.** Install the "Outside Bench Support Leg Braces" onto the leg and underside of the bench seat.



- 34.** Place the bench seats onto the previously installed supports and screw into the walls from the underside (pre-drilled holes) using 4x 4*40mm screws for each bench seat.



- 35.** Screw the leg support down into the floor with 2x 4*40mm screws for each leg. Pre-drilling is required.



- 36.** Using the "40*40cm Ply Square" to get the install height, install the "Inside Bench Support Long" along the side wall and the 2x "Inside Bench Support Short" onto the front and back wall using 4*40mm screws. Allow 5cm from where the staves meet the back and front wall.





Installing the Inside Bench Seats

- 37.** Fix the “Inside Bench Seat Legs” to the underside of the bench seat using the “6*35 Flat Head Camlock Screws”.



- 38.** Place the two “Inside Bench Seats” onto their respective supports.



- 39.** Screw the “Inside Bench Seats” into the walls using 4*40mm Screws and the predrilled holes on the underside of the bench. Screw the “Inside Bench Seat Legs” down into the floor using the predrilled holes and 4*40mm screws.



4. INSTALLATION INSTRUCTIONS

Installing the Wooden Heater Fence & Harvia Heater

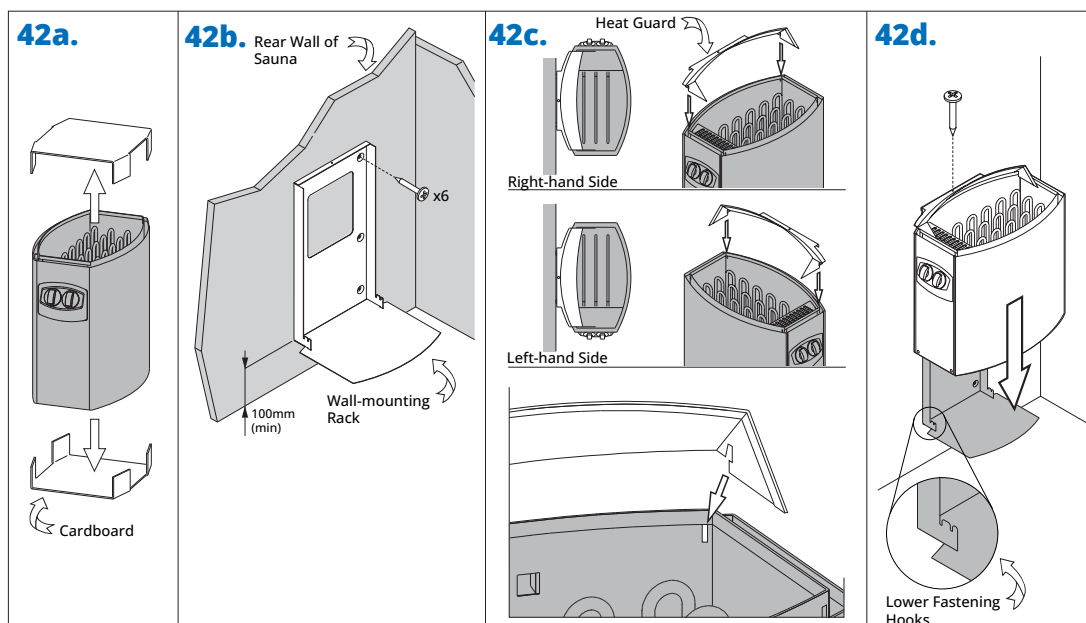
- 40.** Piece together the "Heater Fence Set" using the "6*35mm Flat Head Camlock Screws"



- 41.** Screw the "Heater Fence Set" into the back wall, centered between the two bench seats, approximately 150mm off the floor using the predrilled holes and 4x 4*40mm screws.



- 42a.** Remove both cardboard covers before installation.
- 42b.** Fasten the wall-mounting rack to the rear wall of the sauna using the provided screws. Make sure the heater is installed level and 100mm off ground level, while allowing enough space to access the control dials. Refer to the Sauna assembly instruction for the heater location.
- 42c.** The heater can be installed so the control dials are positioned on the left, or the right-hand side. Install the heat guard accordingly to the rear of the heater, making sure the clips fasten in the hole properly.
- 42d.** Lift the heater to the rack on the wall so that the fastening hooks of the lower part of the rack go behind the edge of the heater body. Lock the edge of the heater onto the rack with the supplied screw.





Install the Glass Door

- 43.** Install the Glass Door by attaching the provided "Glass Door Hinges" and screwing into the rebates using the 6*55mm Hinge Screws



- 44.** Attach the "Door Lock Set" together through the hole provided and secure with the 2x 3*25mm screws



- 45.** Screw the "Door handle Set" together and through the holes provided in the glass door with the "Door Handle Flat Head Screws".

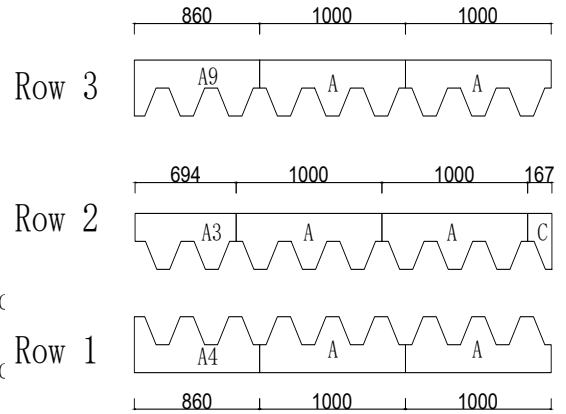
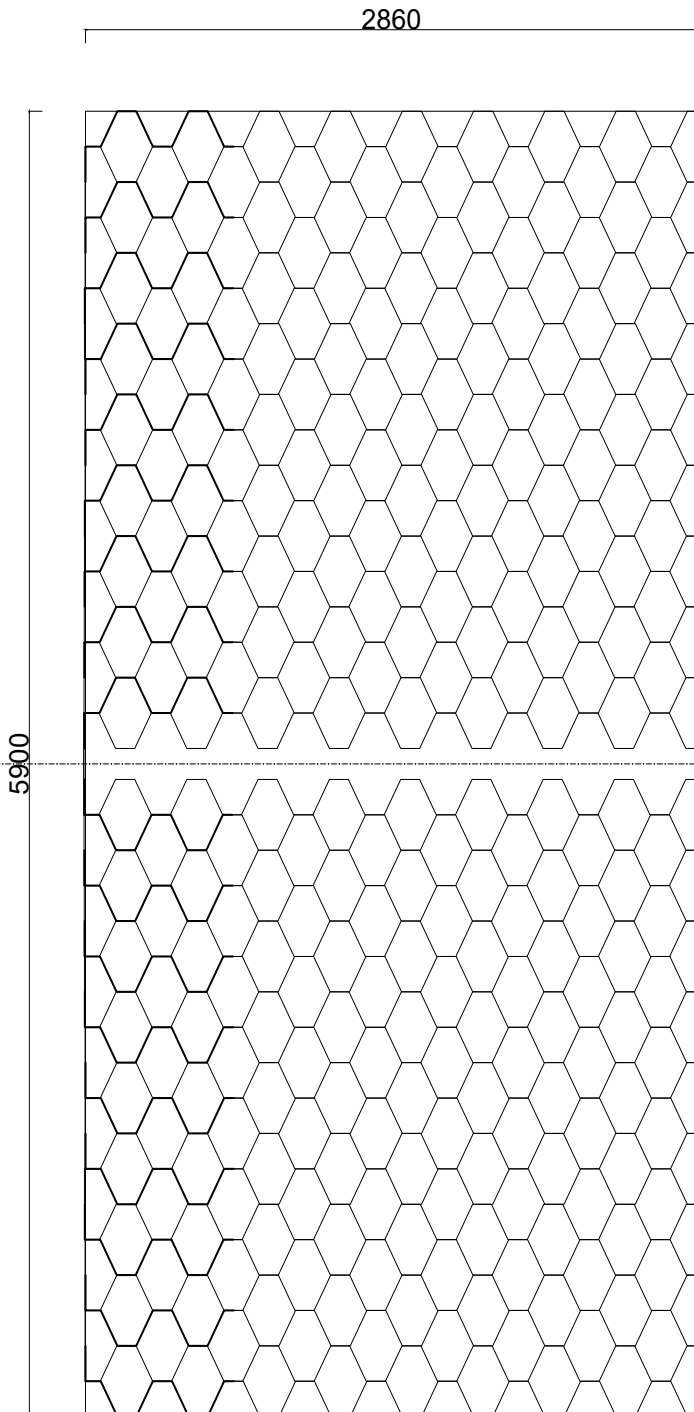


- 46.** Rinse off the Harvia Sauna Stones to remove any transit dust prior to placement in the heater. Place the stones in and around the heating elements so they support each other, instead of lying their weight on the heating elements. .

NOTE: Please check your Sauna serial number before proceeding.

**Over time bitumen tile layouts can change.
The serial number will guide which layout you will need, as the number of bitumen tiles and overall number of rows needed for full cover differs.**

Serial Numbers 24013250 and BELOW



- Row 1 =A4+A+A
- Row 2 =A3+A+A+C
- Row 3=A9+A+A
- Row 4 =A3+A+A+C
- Row 5 =A9+A+A
- Row 6 =A3+A+A+C
- Row 7 =A9+A+A
- Row 8 =A3+A+A+C
- Row 9 =A9+A+A
- Row 10 =A3+A+A+
- Row 11 =A9+A+A
- Row 12 =A3+A+A+
- Row 13 =A9+A+A
- Row 14 =A3+A+A+C
- Row 15 =A9+A+A
- Row 16 =A3+A+A+C
- Row 17 =A9+A+A
- Row 18 =A3+A+A+C
- Row 19 =A9+A+A

A = 84pcs
A3 = 20pcs
A4 = 2pcs
A9 = 20pcs
C = 20pcs

OVERLAPPING

- Row 19 =A9+A+A
- Row 18 =A3+A+A+C
- Row 17 =A9+A+A
- Row 16 =A3+A+A+C
- Row 15 =A9+A+A
- Row 14 =A3+A+A+C
- Row 13 =A9+A+A
- Row 12 =A3+A+A+C
- Row 11 =A9+A+A
- Row 10 =A3+A+A+C
- Row 9 =A9+A+A
- Row 8 =A3+A+A+C
- Row 7 =A9+A+A
- Row 6 =A3+A+A+C
- Row 5 =A9+A+A
- Row 4 =A3+A+A+C
- Row 3=A9+A+A
- Row 2 =A3+A+A+C
- Row 1 =A4+A+A

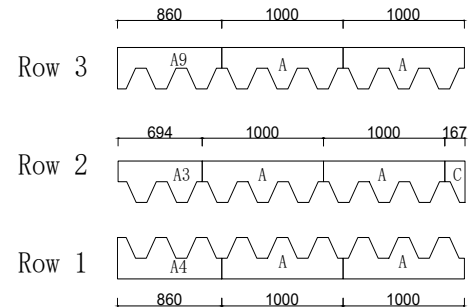
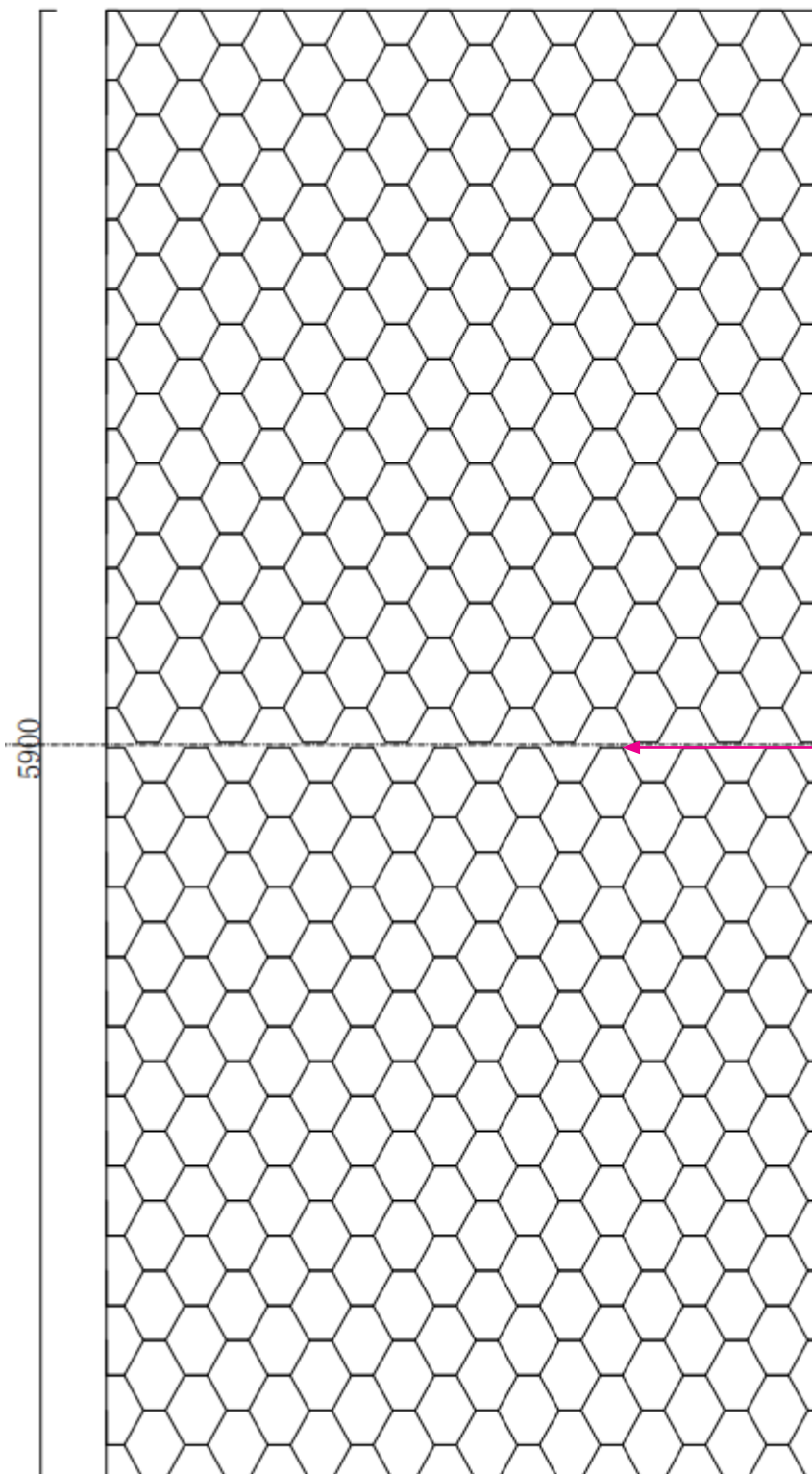


NOTE: Please check your Sauna serial number before proceeding.

Over time bitumen tile layouts can change.

The serial number will guide which layout you will need, as the number of bitumen tiles and overall number of rows needed for full cover differs.

Serial Numbers 24014043 and ABOVE



A3 = 23pcs

A4 = 2pcs

A9 = 21pcs

C = 23pcs

OVERLAPPING

Row 22 = A3+A+A+C

Row 21 = A9+A+A

Row 20 = A3+A+A+C

Row 19 = A9+A+A

Row 18 = A3+A+A+C

Row 17 = A9+A+A

Row 16 = A3+A+A+C

Row 15 = A9+A+A

Row 14 = A3+A+A+C

Row 13 = A9+A+A

Row 12 = A3+A+A+C

Row 11 = A9+A+A

Row 10 = A3+A+A+C

Row 9 = A9+A+A

Row 8 = A3+A+A+C

Row 7 = A9+A+A

Row 6 = A3+A+A+C

Row 5 = A9+A+A

Row 4 = A3+A+A+C

Row 3 = A9+A+A

Row 2 = A3+A+A+C

Row 1 = A4+A+A

Install the Bitumen Roofing

The bitumen roofing needs to be installed from bottom to top. Complete one side of the roof to roughly 90%, then repeat the other side of the roof to 90%. Complete the last remaining rows by swapping back and forth from each side. Eventually you will meet in the middle where the last two remaining rows require silicon added to help with waterproofing and the overlapping of one side over the other. Please watch the video mentioned at the start of this document for advice.

- 46.** Locate the packs of bitument roof tiles and arrange them into their shapes. Be careful not to mix up tiles A4 and A9 as these are very similar.

Start the first row along to bottom of the sauna on one of the sides as per below image:



TIP: Avoid leaving these in the sun before installing

- 47.** Complete the second row guided by your sauna serial number. Make sure that the flat part of the signment is flush with the bottom of the drip edge. Secure using a staple gun. Be sure to Staple & screw at the top of the ridge so that it will be covered by the next layer. Example provided below is a different model but the illustrates the overlap.



- 48.** Once the first and second layers are secure position the next always starting at the front edge and making sure the segments are flush. Example provided below is a different model but illustrates the required overlap.



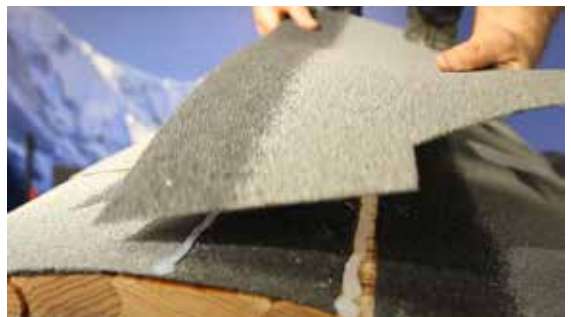
- 49.** Complete the remaining rows as follows on the one side. See the previous pages for the row pattern.



- 50.** After you reach the top of the sauna, repeat steps 47 through 50 for the other remaining side of sauna.



- 51.** The end row of bitumen should overlap over the other side of sauna. The addition of silicone is recommended to be added under this layer to assist with waterproofing. Screw down the bitumen using the 3x14mm screws.



Adding the Front and Rear Capping

- 54.** It's best not to assume that the final middle stave is center. Get a center measurement based off the front wall and transfer that point onto the front of the final middle stave. Then measure and mark a center point on the capping piece #1 and line both up together to find the starting position. Screw into the regular staves using the 3*30mm screws.



- 55.** Finishing adding the capping in the order of the numbered pieces.

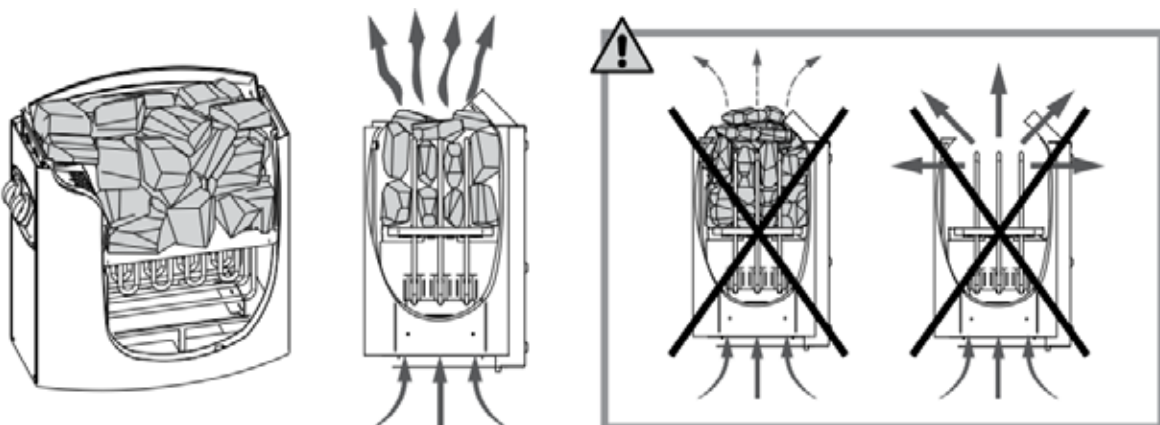


Adding your Harvia Sauna Stones to your Heater

- 56.** Rinse off the Harvia Sauna Stones to remove any transit dust prior to placement in the heater. Place the stones in and around the heating elements so they support each other, instead of lying their weight on the heating elements. Don't form a high pile on the top of the heater, or wedge stones between the heating elements as this can cause damage.

Sauna Stone Break-In

A break-in procedure for the heater must be done when turning it on for the first time to cure the woodwork and burn off any impurities. When heating up the sauna stones for the first time, they may crackle loudly and even chip/explode slightly - this is normal. Be sure to exit the sauna with the door shut when doing so.





Adding the Accessories

- 57.** Install towel hook on the outside of the sauna, in user desired position to the left or right of the sauna door. Use the 4*40mm screws to secure in place.



- 58.** Install the hygrometer & sand timer inside the sauna, anywhere except for directly above the heater. Use the 4*40mm screws to secure in place.

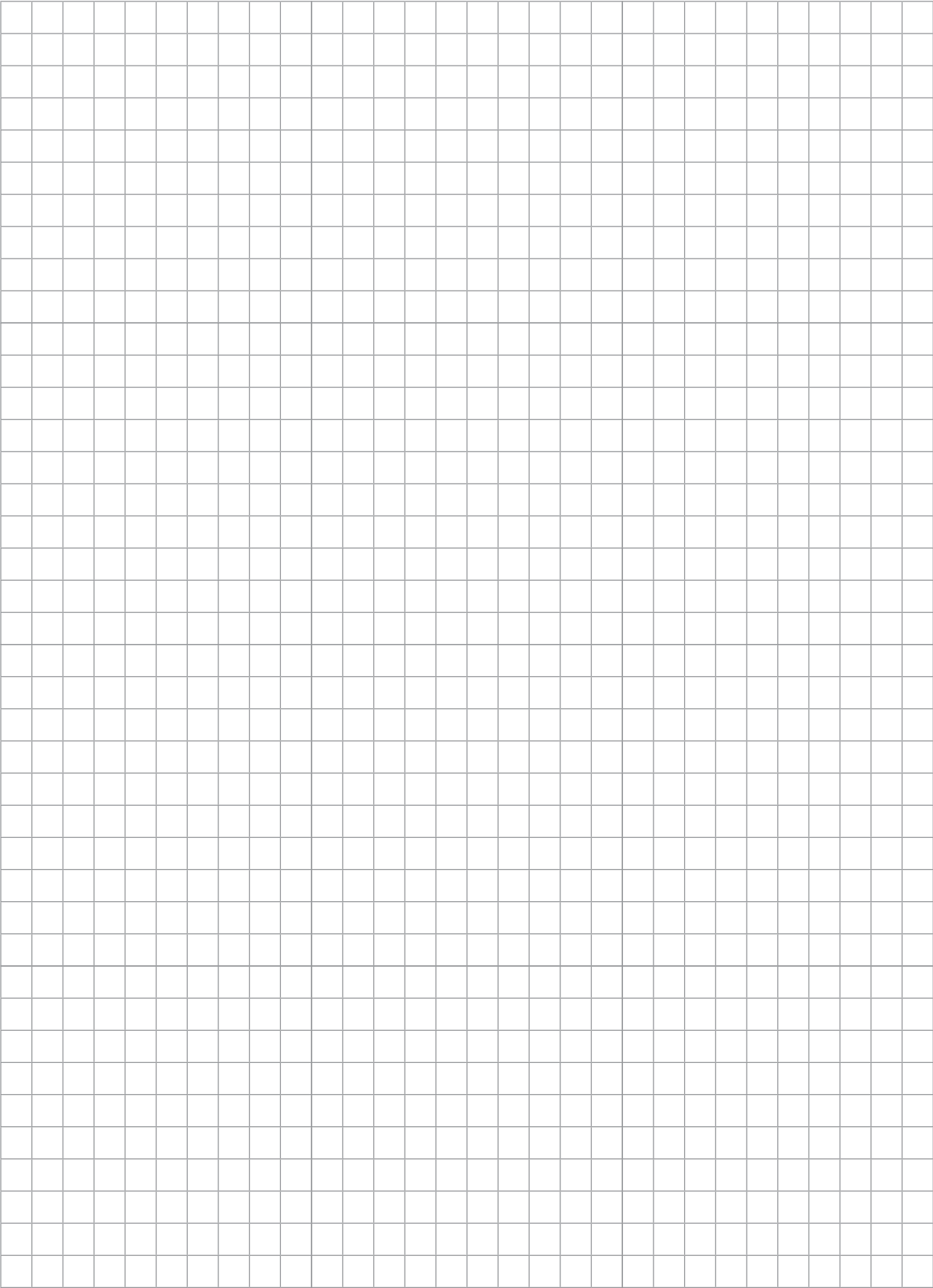
- 59.** Install the magnetic door catches using the "3*16mm" screws.



- 60.** Place the stainless-steel vent grills over the vent holes.

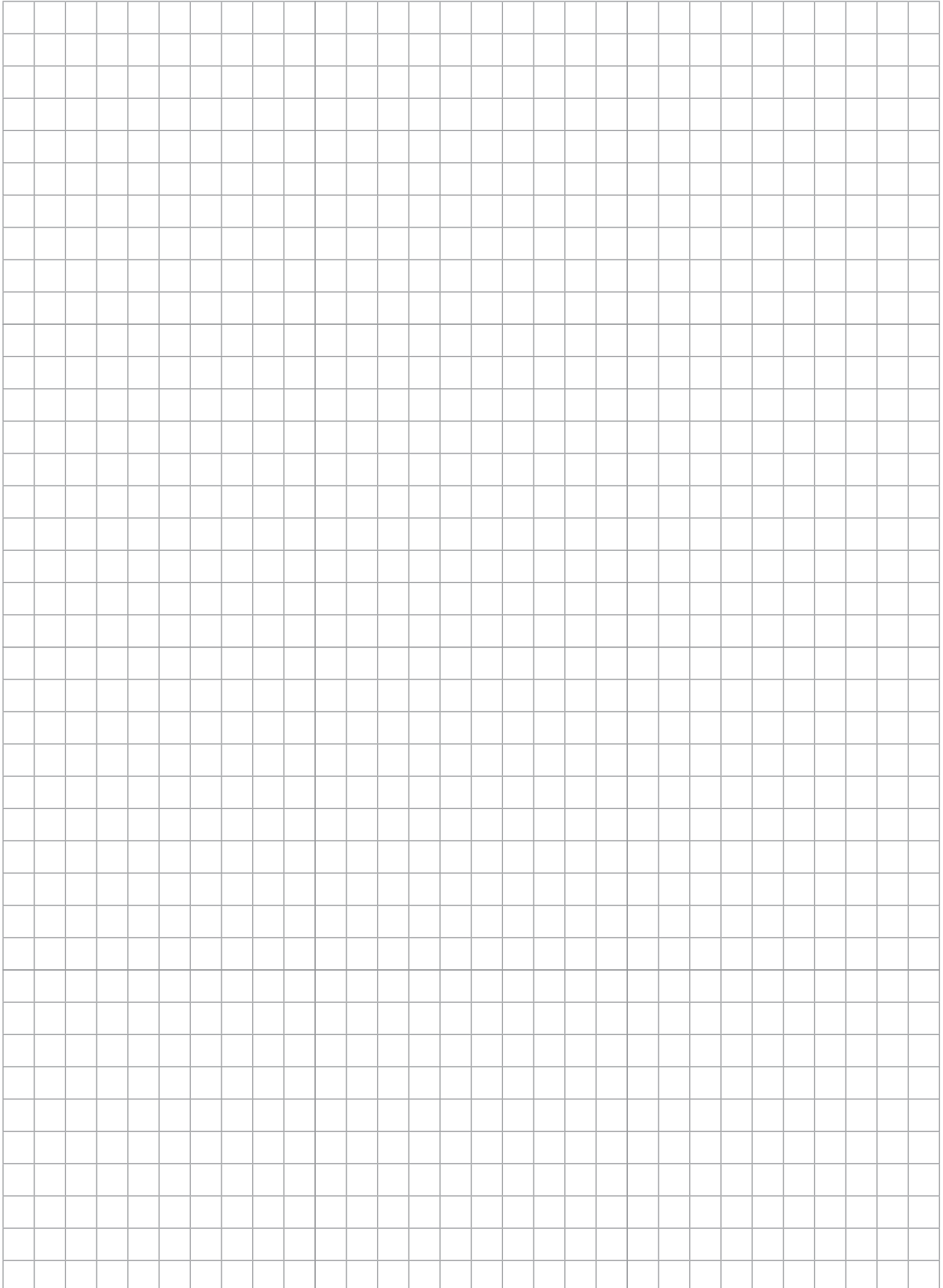


Sketch





Sketch





If you need assistance, please get in touch via phone or email.

0800 99 33 88
sales@alpinespas.co.nz

1800 99 33 88
sales@alpinespas.com.au

For a digital copy of this guide and also the outdoor sauna user guide visit:

www.alpinespas.co.nz/support

www.alpinespas.com.au/support