Löyly

INSTALLATION MANUAL

V031125

Instructions

1. It is recommended to install the sauna above ground level to prevent the base frame from coming into direct contact with the ground. Use a water-resistant material, such as bitumen strips, between the base frame and the base surface for added protection.

2. Ensure that the surface on which you install the sauna is level and stable both before and after installation. Otherwise, the sauna doors may not open and close properly later on.

3. During the first heating of the sauna, it must be closely supervised, and the doors should remain open, as the stove may emit a specific odor when heated for the first time. For more information, please refer to the user manual for the sauna stove.

4. The maximum permitted temperature in the steam room is +90 °C. Heating the sauna to a higher temperature may result in overheating.

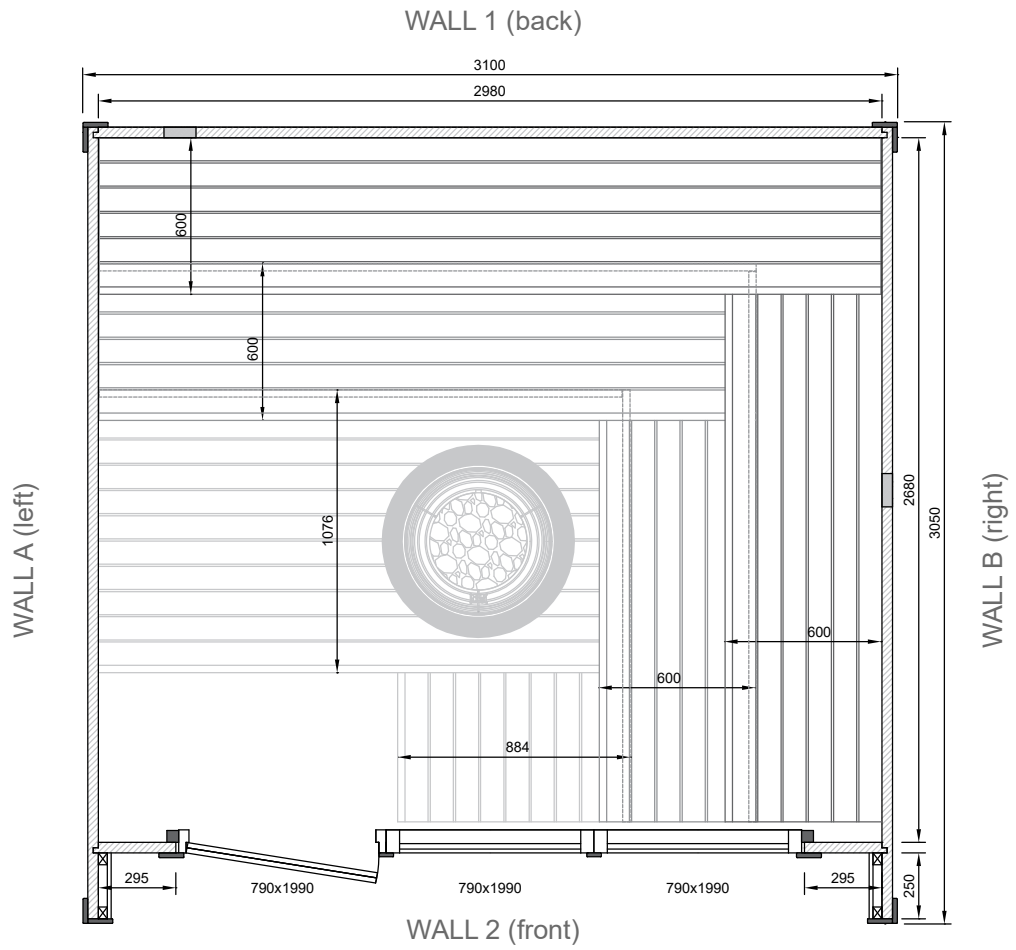
5. To prevent damage from the weight of snow in winter, any snow should be removed from the roof of the sauna. Be careful not to damage the roof covering during the snow removal process.

6. If your sauna has lighting, install a 3G 2.5 mm outdoor power cable and connect it according to the schematics provided with the plug socket coupler. The sauna's power cable must be connected to a residual-current circuit breaker. If you have any questions, consult an electrician.

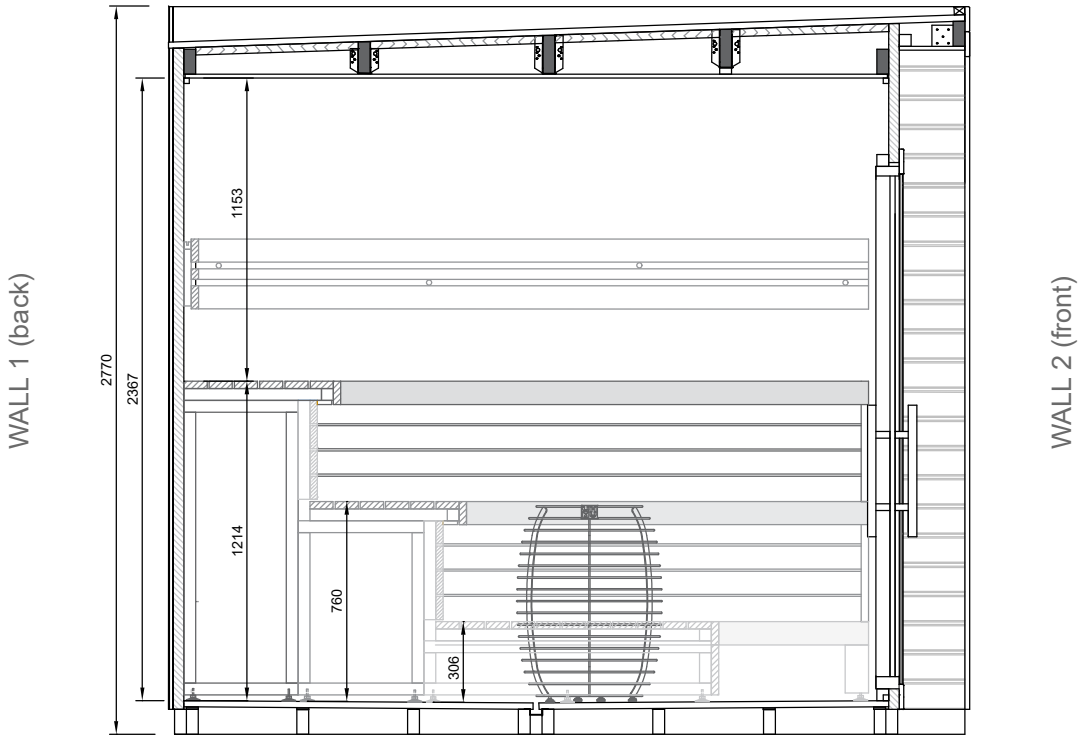
Required tools

 Tape measure	 Cutting knife	 Respirator
 Pencil	 Battery drill	 Scissors
 Level	 Nail gun	 Tin shears
 Rubber mallet	 Circular saw	 Pliers
 Hammer	 Gloves	 Hole saw Ø 122 & 127 mm
 Hand saw	 Safety goggles	 Jigsaw
 Silicone gun	 Foam gun	

Floor plan



Cross section



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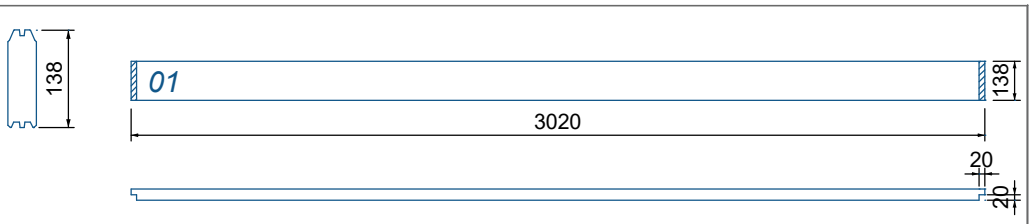
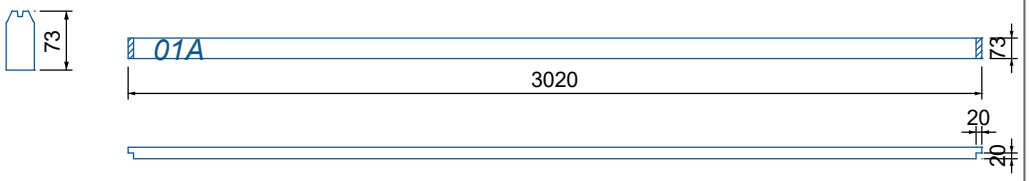
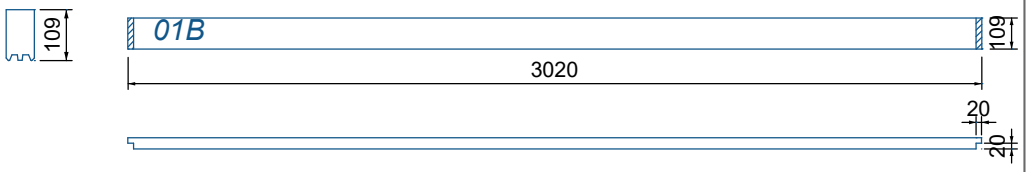
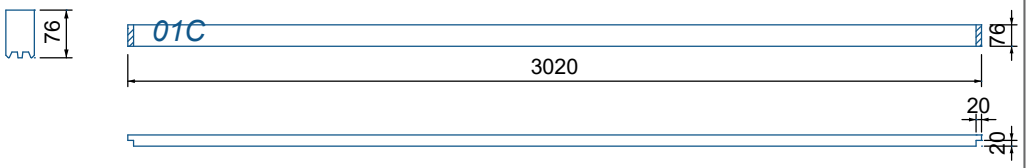
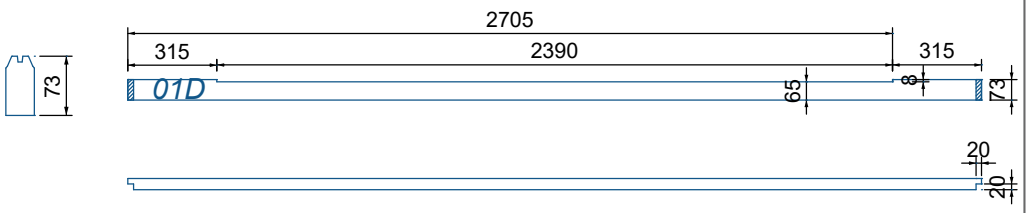
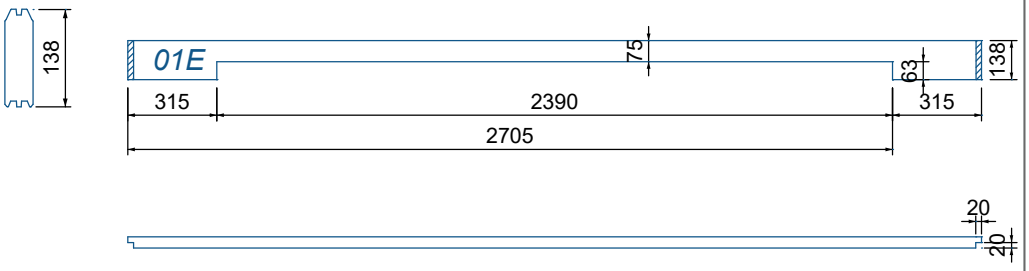
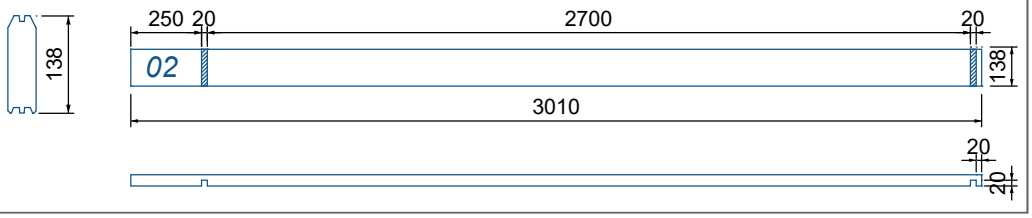
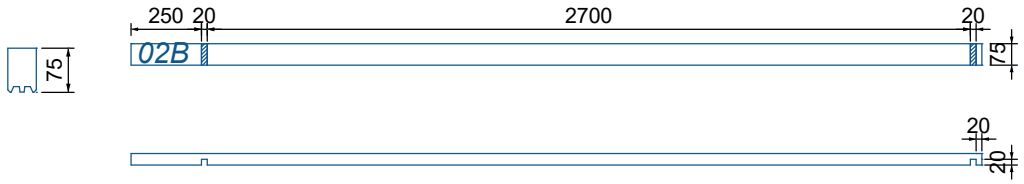
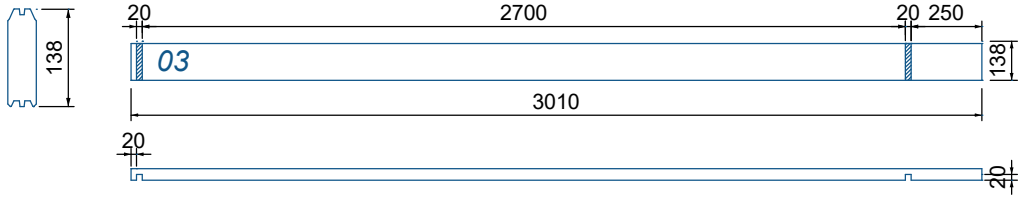
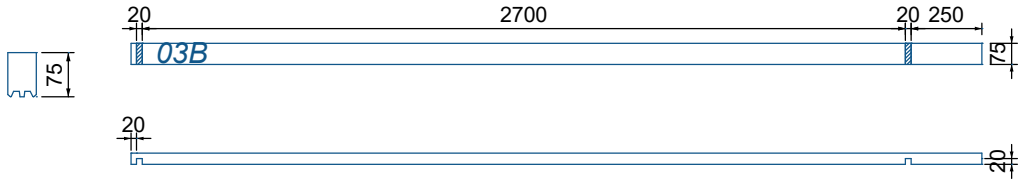
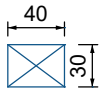
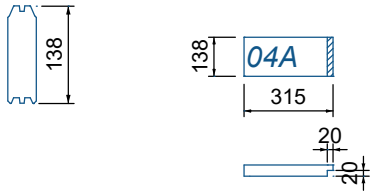
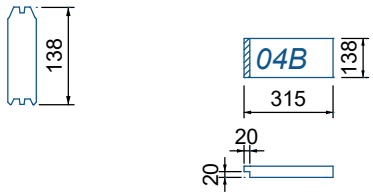
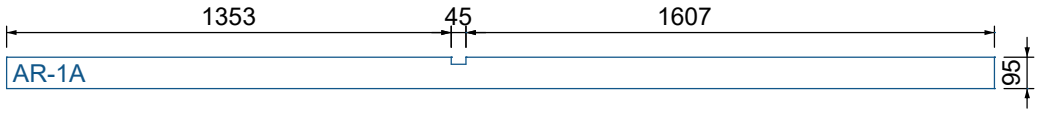
01	**21 + 2 EXTRA**	**3020**	
01A	**1**	**3020**	
01B	**1**	**3020**	
01C	**1**	**3020**	
01D	**1**	**3020**	
01E	**1**	**3020**	
02	**10 + 1 EXTRA**	**3010**	

DETAILS LIST - Wall Logs:

02B	**1**	**3010**	
03	**10 + 1 EXTRA**	**3010**	
03B	**1**	**3010**	
01F	**1**	**2980**	 Roof Block
04A	**15 + 2 EXTRA**	**315**	
04B	**15 + 2 EXTRA**	**315**	

Base Frame:

Marking	Detail	Image	Note	Length	Pcs.
AR-1A	45x95 Base Frame		*Cutout!*	3005	2
					
AR-2	45x95 Base Frame			2960	10
VR-1	Drainage detail			3090	1

DETAILS LIST - Floor and roof boards:

KL-1	24x120 Roof Board			3030	28+2
PL-1	24x120 Floor Board			1320	54+2

Posts and Beams:

T-1	45x145 Ceiling Beam			2980	2
T-2	45x120 Ceiling Beam			2980	1
T-3	45x95 Ceiling Beam			2980	3
T-4	45x45 Ceiling Beam			2910	1
UR-1	45x45 Door/ Window Frame			2370	2
UR-2	45x45 Door/ Window Frame			2080	2
P-0	45x34 Distance post			2610	4

Slats and Moldings:

L-1	18x95 Roof Molding		*Cut to length!*	~3100	6
EXTRA	18x95 Corner Molding		*Cut to length!*	~3100	2
L-2	18x95 Corner Molding		*Cut to length!*	~2700	8
UL-1	18x95 Door Molding			2590	1
UL-2	18x95 Door Molding			2350	1
UL-3	18x95 Door Molding			2055	2
LED-1	15x55 Distance Slat		*for LED under sauna benches*	2970	2
DI-00	21x21 Ceiling and Floor Molding		*Cut to length!*	~2100	7+1
UL-4	12x42 Door Molding			~2200	2
DL-1	24x45 Distance slat		*under T-1 ceiling beam*	2980	1

Lining Boards:

STP-1	15x90 Ceiling Board		*Thermo spruce*	2670	38+2
STP-2	14x121 Outer Lining Board			250	73+3

Slope Veneers:

	3 mm Floor slope veneer			2400	3
	6 mm Floor slope veneer			2400	3
	9 mm Floor slope veneer			2400	3

Doors and Windows

U-1	Glass Door 88x790x1990		+ door handle		1
A-1	Window 88x790x1990				2
	Wooden Cover Caps				24

Insulation, Finishing, Tapes:

	SPU Insulation Panel 30x600x1200				13
	Foil Tape		for SPU insulation panels	10 m	6
	Moisture safety tape		for all outside corners	10 m	2
	Transparent silicone		for all outside corners		9
	Gunfoam		for door and window insulation		1
	Black Paint		for paint repair	0,9 L	1

DETAILS LIST - Mounting Accessories:

Marking	Detail	Image	Note	Length	Pcs.
	Joist Hanger 45x147 Joist Hanger 45x97		for fixing 45x145 beams for fixing 45x95 beams		4 2
	Metal Corner Bracket 60x60x60		*for roof beam*		2
	Screw 6x180		*for wall logs*		350
	Screw 5x90		*for base frame*		50
	Screw 5x40		*for joist hangers*		50
	Screw 4.5x70				200
	Screw 3.5x50		*for floor boards*		250
	Screw 3.5x70		*for bench skirts*		40
	Screw 3x40	black	*for black moldings*		200
	Nail 70 mm		*for roof boards*		300
	Lost-head nail 40 mm		*for STP-1 ceiling boards*		300
	Ventilation set				1
	Ventilation Grid Ø125		*metal*		2

Roof Covering:

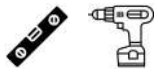
	EPDM Rubber Roof Cover 3.5x3.05 m				1
	EPDM Glue		2.5 l		2
	EPDM Quickprime		125 ml		1
	Splice Tape		for back wall metal drip edge	3 m	1
	Paint roller + Handle + Sanding pad				1
	Metal Drip Edge		for back wall *Cut to length!*	2050 mm	2
	Metal roofing sheet		for front and side walls. *Cut to length!*	2100 mm	6
	Black Roofing Screw 4.8x25		for side walls metal roofing sheets		50
	Black Wronic Screw 4.2x25		for back wall metal drip edge		30

Sauna Benches:

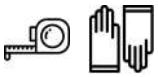
	Bench Module 600 mm		*Top bench*	2970	1
	Bench Module 600 mm		*Middle bench*	2495	1
	Bench Module 576 mm		*Bottom bench*	2050	1
	Bench Module 500 mm		*Bottom bench*	2050	1
	Bench Module 600 mm		*Top L- bench*	2006	1
	Bench Module 600 mm		*Middle L- bench*	1527	1
	Bench Module 884 mm		*Bottom L- bench*	568	1
	Bench support 434 mm			1120	10+1
	Bench support 479 mm			663	8+1
	Bench support 206 mm			901	1+1
	Bench support 206 mm			1093	4
	Cover board 28x88 mm			191	5
	Bench Skirt 1			2495	1
	Bench Skirt 2			1988	1
	Bench Skirt 3			2065	1
	Bench Skirt 4			1616	1
	Backrest 1			2970	1
	Backrest 2			2544	1
	LED Lighting Set				1

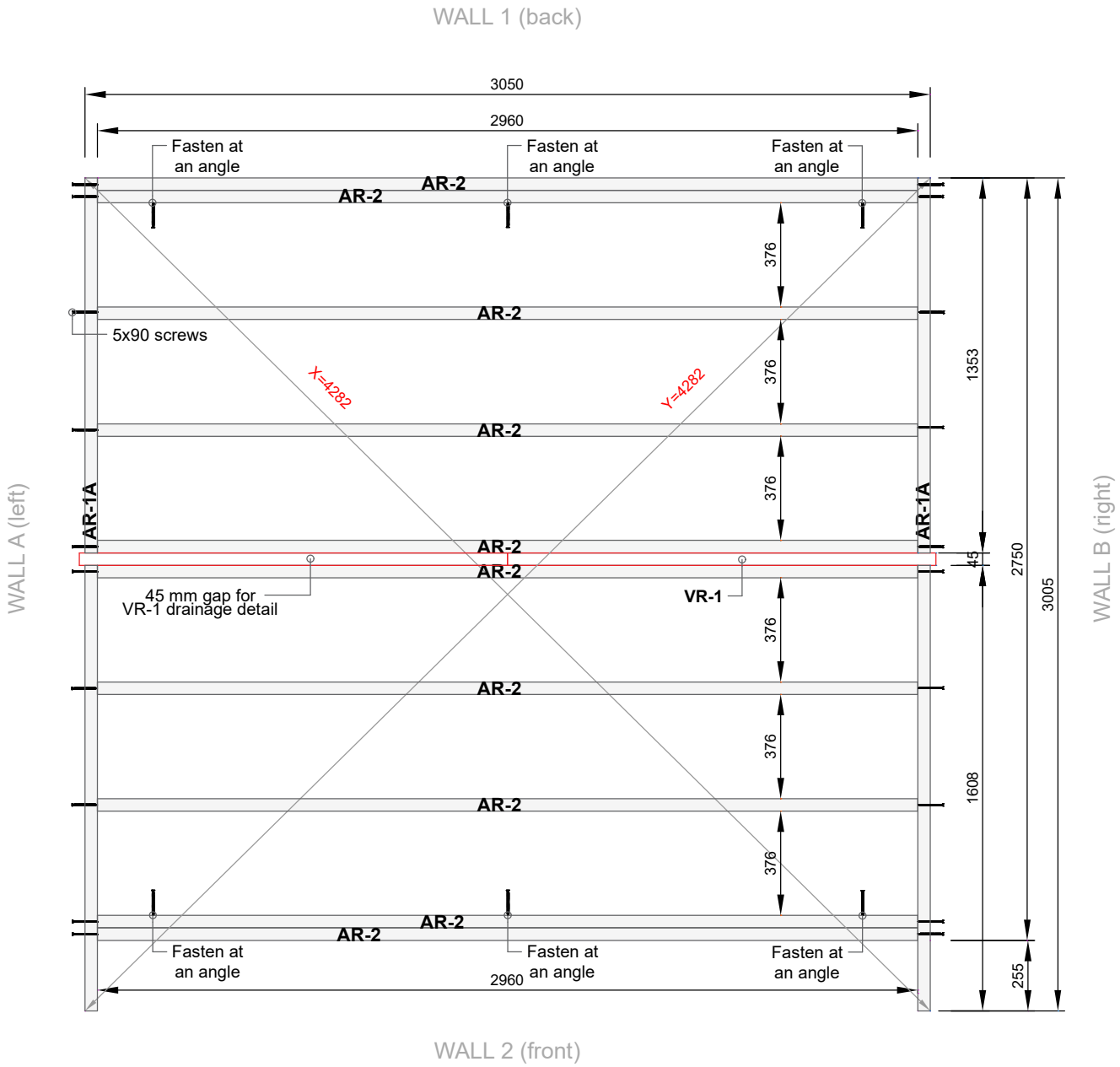
STEP 1 - Base frame

1.1 Connect base frame parts as shown in Scheme 1.1. Ensure frame is level and diagonals are equal (X = Y).
Leave a 45 mm gap between AR-2 parts for VR-1 drainage detail.
Join parts with 5x90 screws using a level and drill.



1.2 Place VR-1 drainage detail on top—no fixings needed.
Caution: Wear gloves; VR-1 has sharp edges.

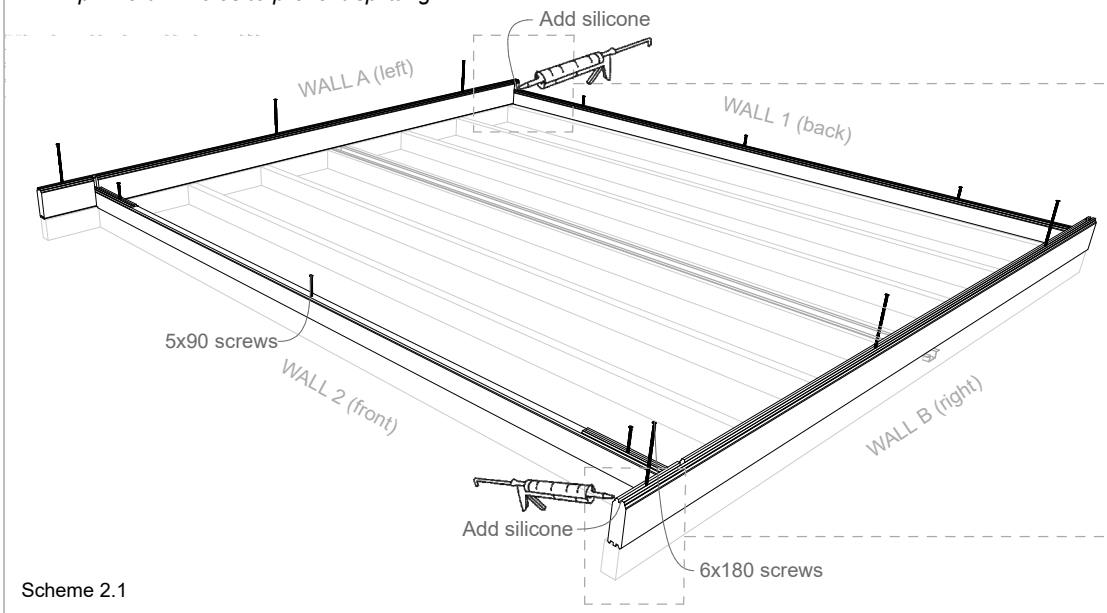


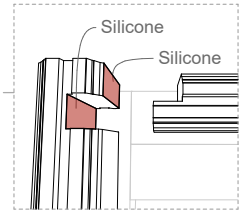


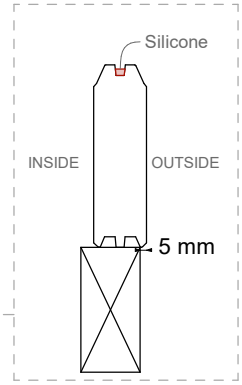
Scheme 1.1

STEP 2 - Walls

2.1 Place the first row of wall logs on the base frame as shown in Scheme 2.1.
Logs should extend 5 mm beyond the base on all sides.
Fix the logs with 6x180 and 5x90 screws.
Tip: Pre-drill holes to prevent splitting.





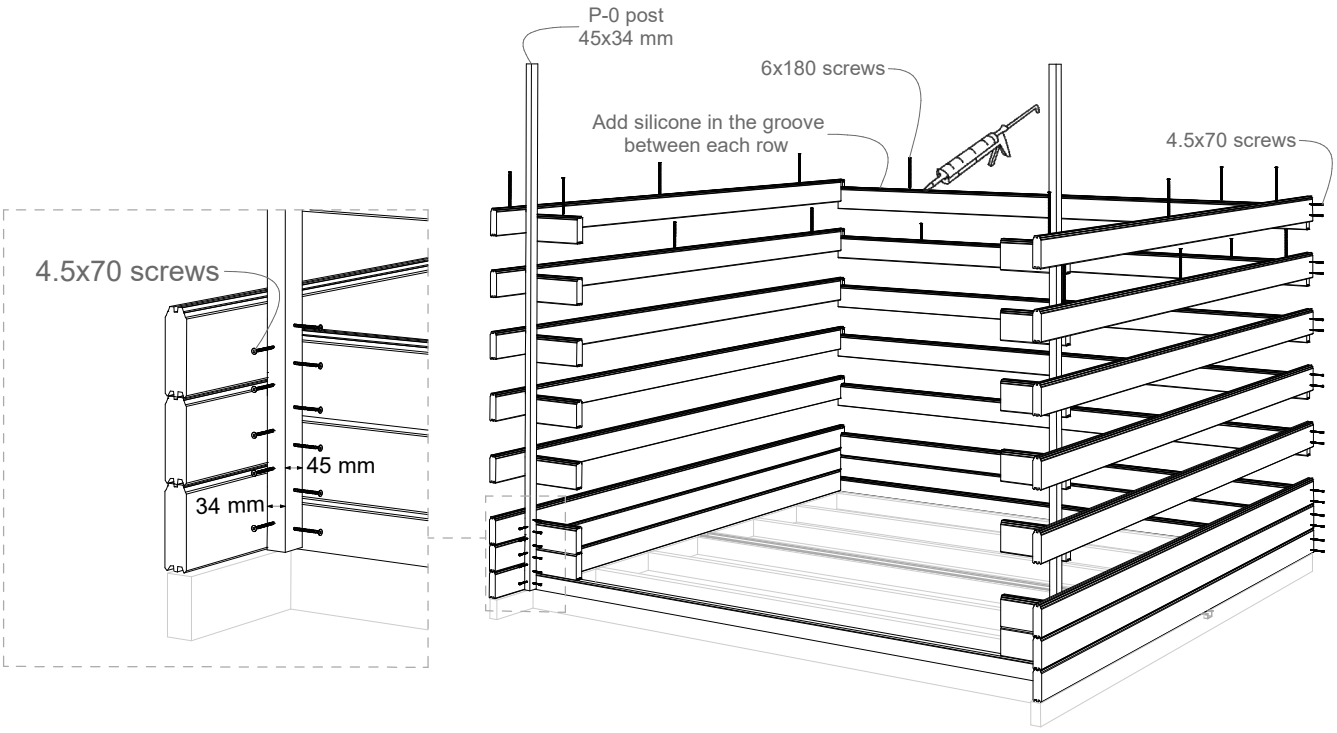


Scheme 2.1

2.2 Apply silicone in the groove between each row. Also, seal the end joints with silicone at the log ends.
Place the second row on top. Use a hitting block and rubber mallet to set in place.
Fix with 4.5x70 and 6x180 screws.
Tip: Pre-drill holes.

2.3 Install P-0 posts at the front wall outer corners. Fix to wall logs with 4.5x70 screws.
Use a level to ensure vertical alignment.
Tip: Pre-drill holes.

2.4 See the "Wall Layout" on page 9 for correct wall log placement.



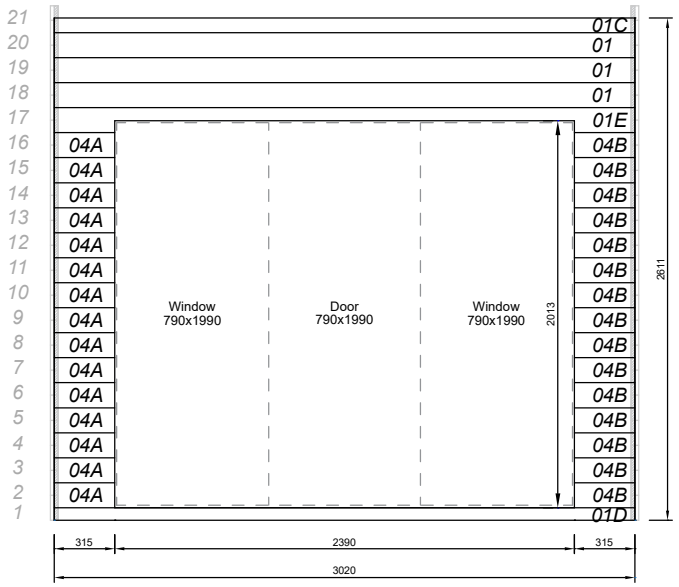
Scheme 2.2

WALL LAYOUT

* Secure all wall logs with 6x180 screws.
* Attach logs to P-0 posts using 4.5x70 screws.

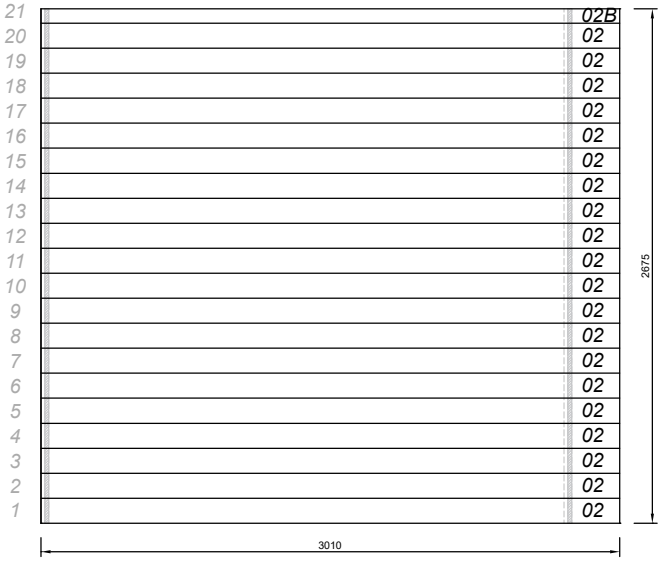
Wall 2 (front)

View from the outside



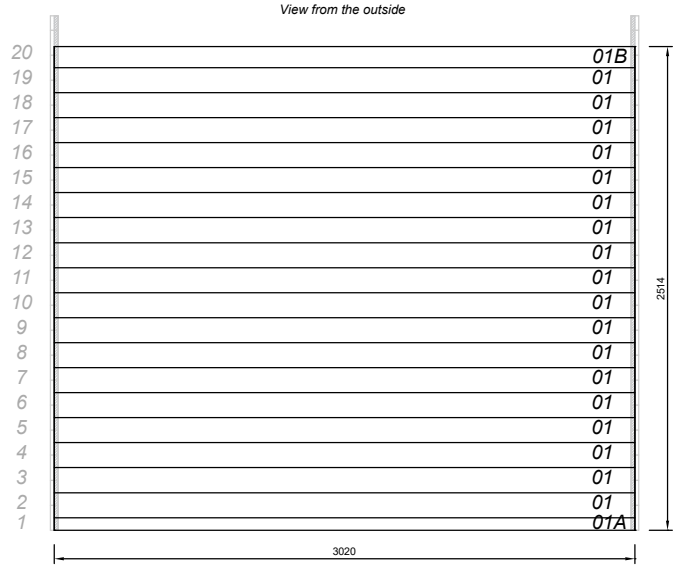
Wall A (left)

View from the outside



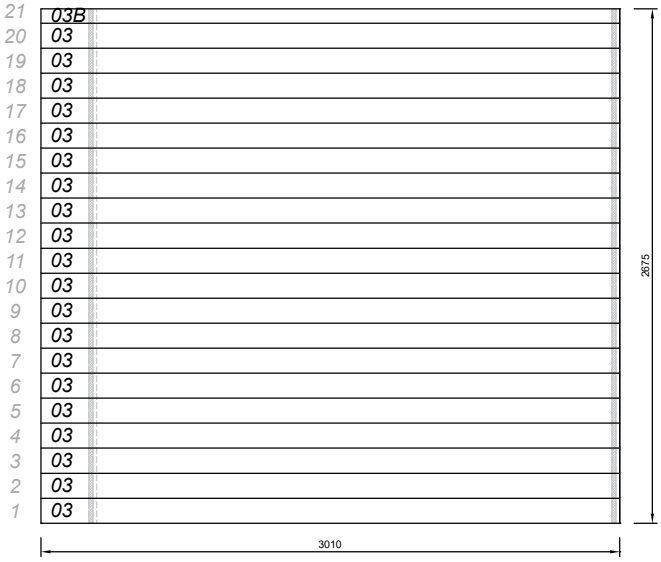
Wall 1 (back)

View from the outside



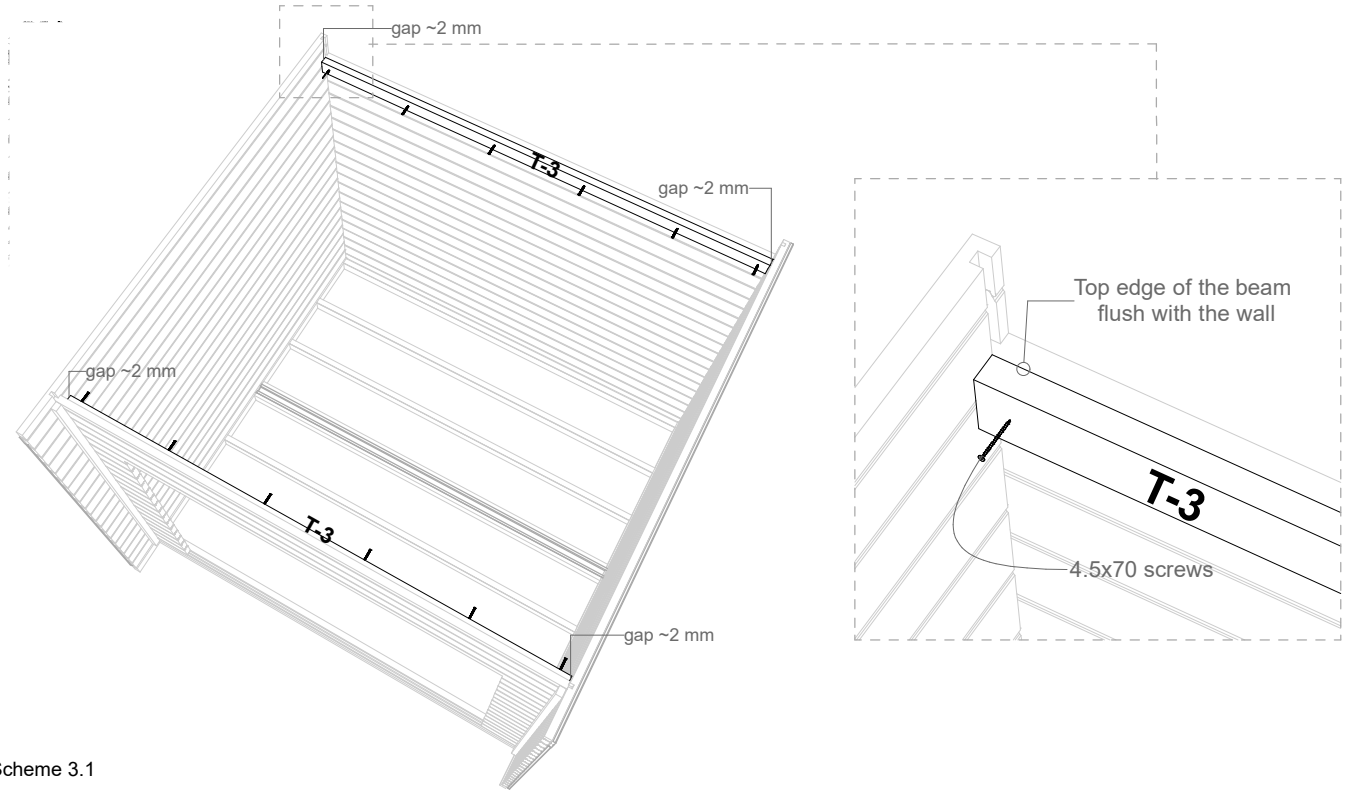
Wall B (right)

View from the outside



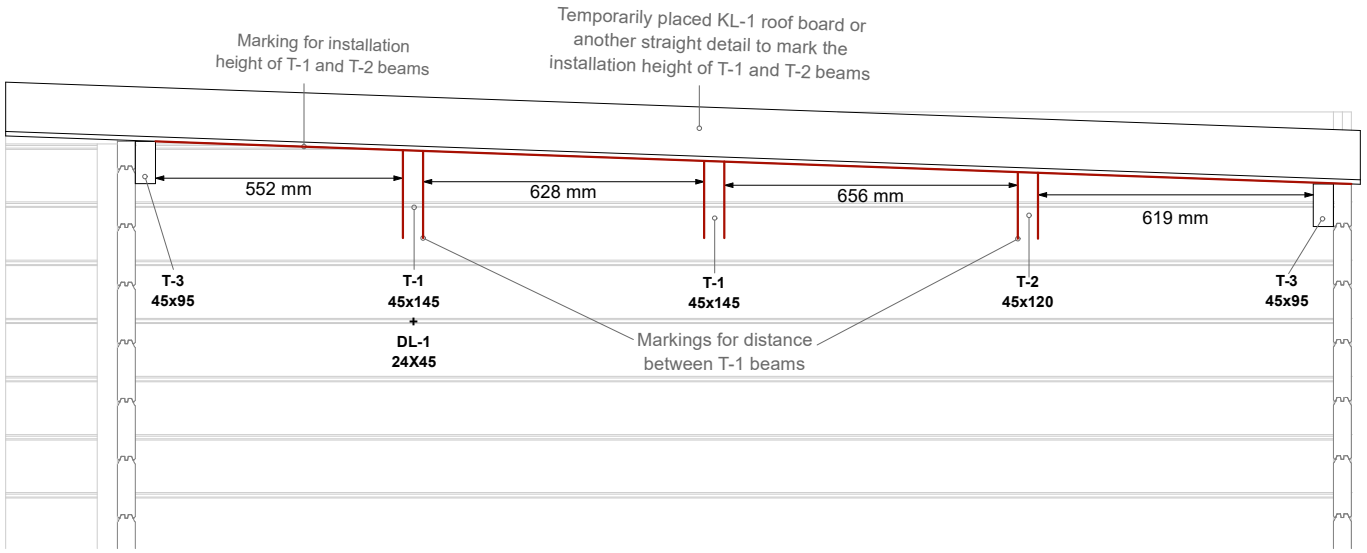
STEP 3 - Roof boards and ceiling

3.1 Attach T-3 beams to front and back walls (leave ~2 mm gap at ends). Top edge must be flush with wall tops. Use 4.5x70 screws (see Scheme 3.1).



Scheme 3.1

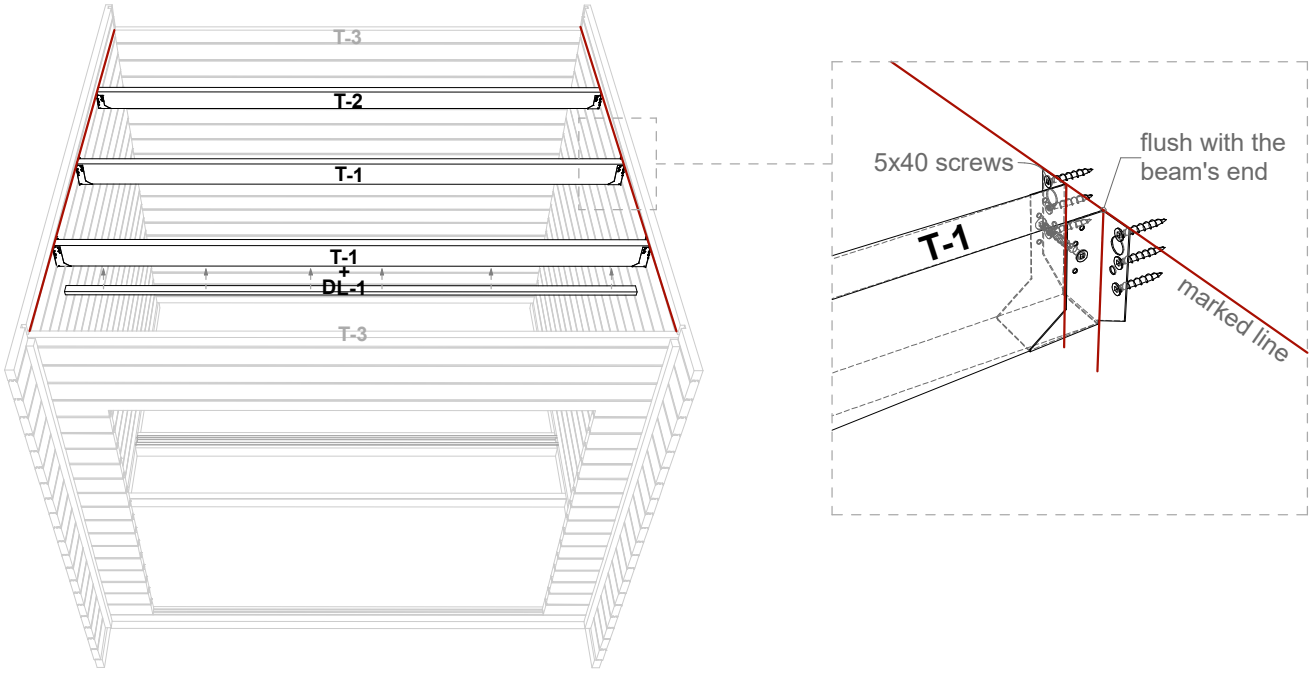
3.2 Temporarily place one KL-1 roof board on top of the front and back walls. Mark the diagonal that forms under the detail on the side walls with a pencil. These markings will determine the installation height of the ceiling beams. Measure out the spacing between the ceiling beamsand mark the locations on both side walls, like shown in Scheme 3.2.



Scheme 3.2

STEP 3 - Roof boards and ceiling

3.3 Fix joist hangers to T-1 and T-2 beams (flush with ends).
Attach beams to side walls using 5x40 screws (see Scheme 3.3).
Install DL-1 distance board under the front T-1 beam using 5x40 screws.



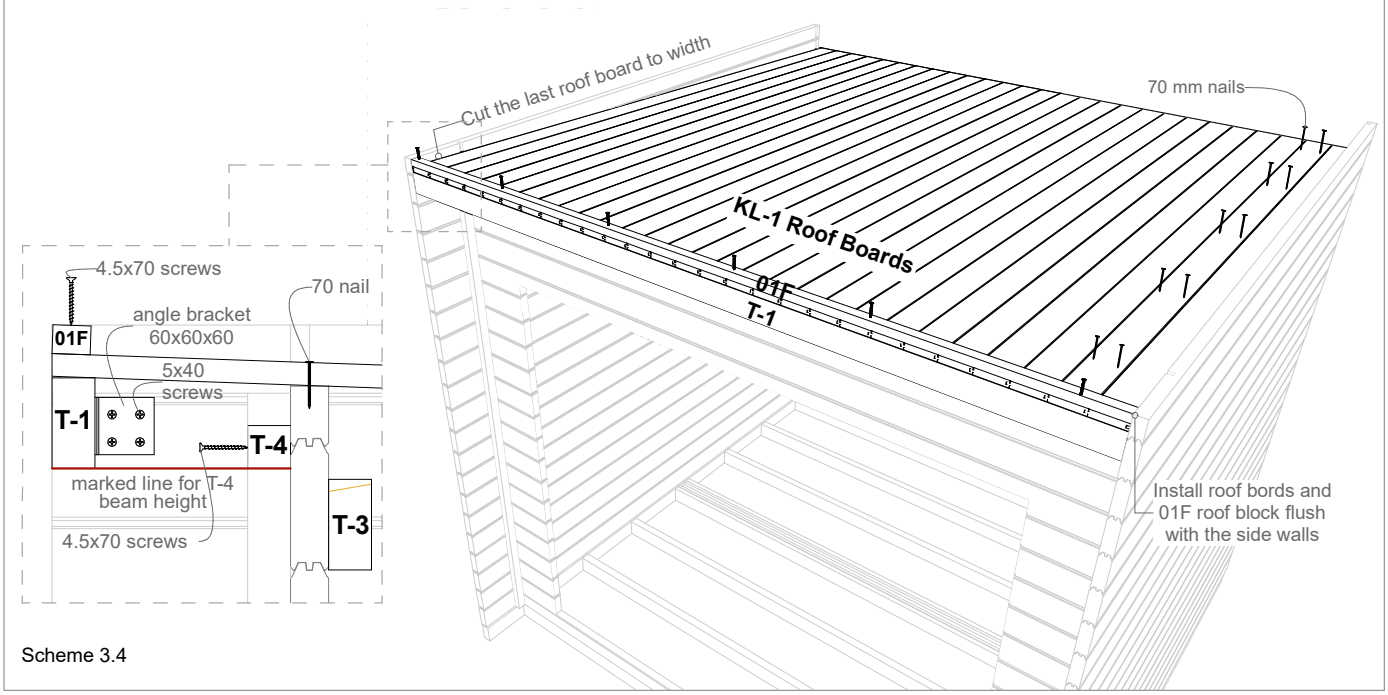
Scheme 3.3

3.4 Install roof boards flush with side walls, starting from the right. Fix each with 70 mm nails.
Cut last board to fit with a circular saw.

3.6 Once roof boards are in, attach T-1 beam underneath, flush at the front (see Scheme 3.4).
Use angle brackets and 5x40 screws.

3.7 Measure from roof boards to T-1 bottom edge.
Mark this height on front wall and fix T-3 beam with 4.5x70 screws.

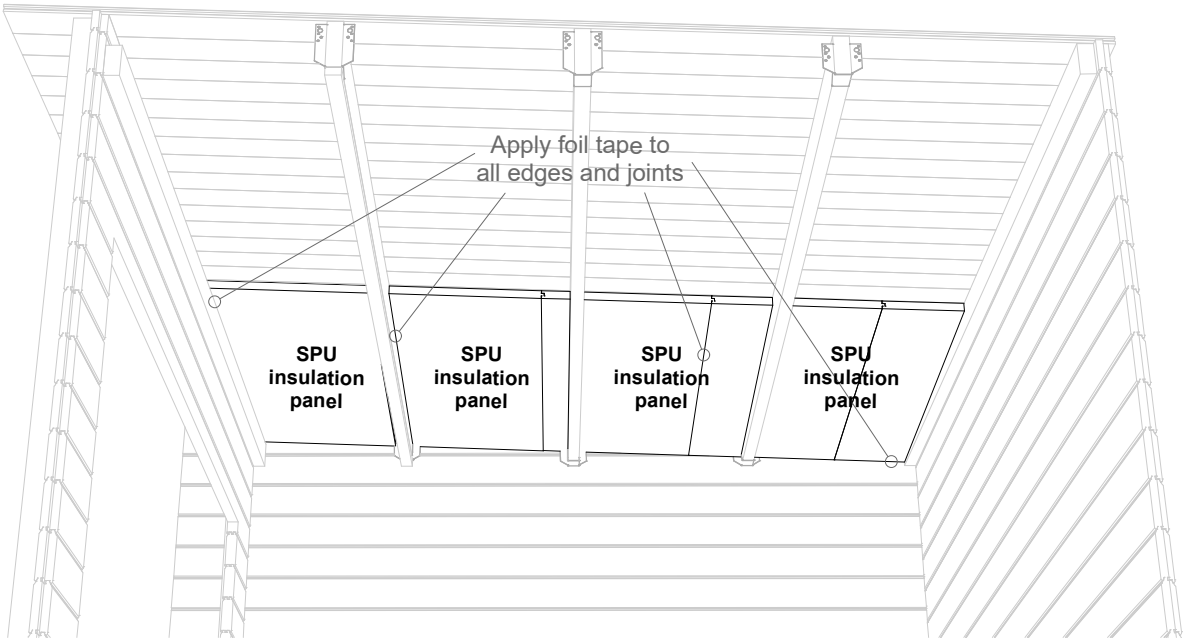
3.8 Install 01F roof block on top of roof boards, flush with front edge. Fix with 4.5x70 screws.



Scheme 3.4

STEP 3 - Roof boards and ceiling

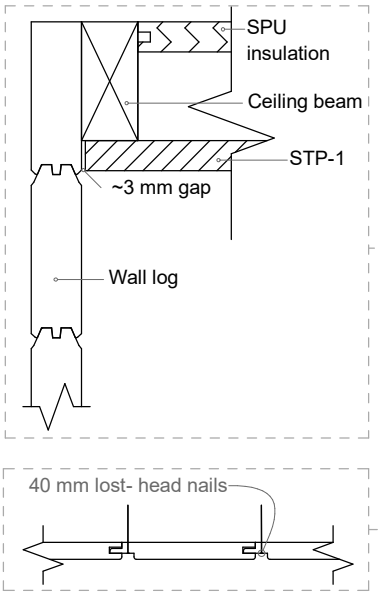
3.9 Cut insulation panels to size and install between ceiling beams.
Seal all edges and joints with foil tape (see Scheme 3.5).

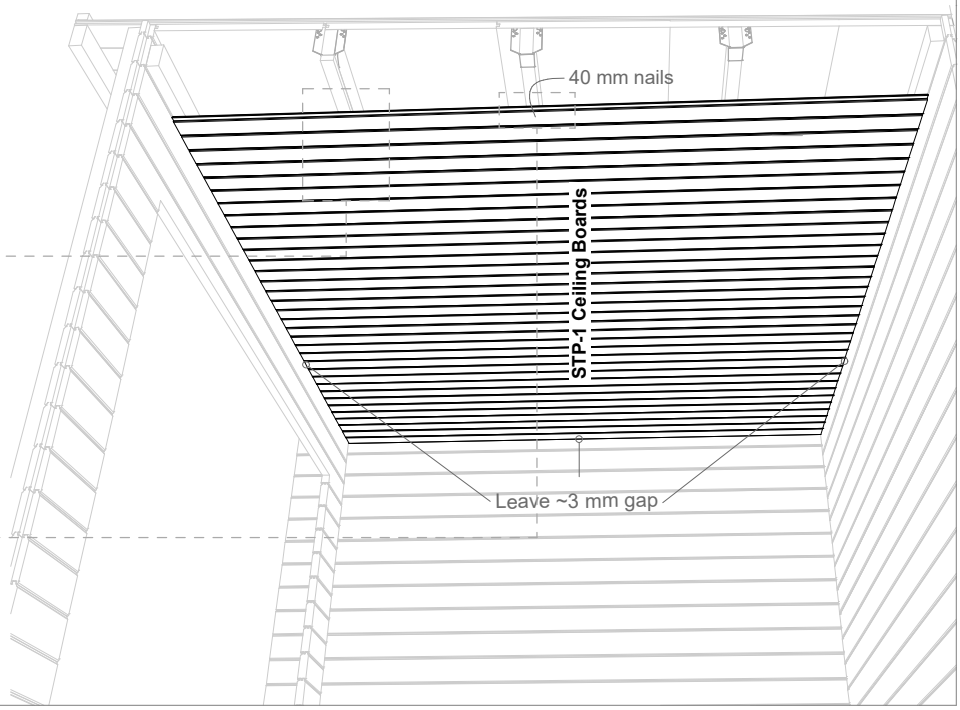


Scheme 3.5

3.10 Place on top of insulation. Fix to ceiling beams with 4.5x70 screws.

3.11 Install ceiling boards on top of beams. Leave ~3 mm gap at walls.
Use 40 mm lost-head nails and trim the last board to width (see Scheme 3.6).

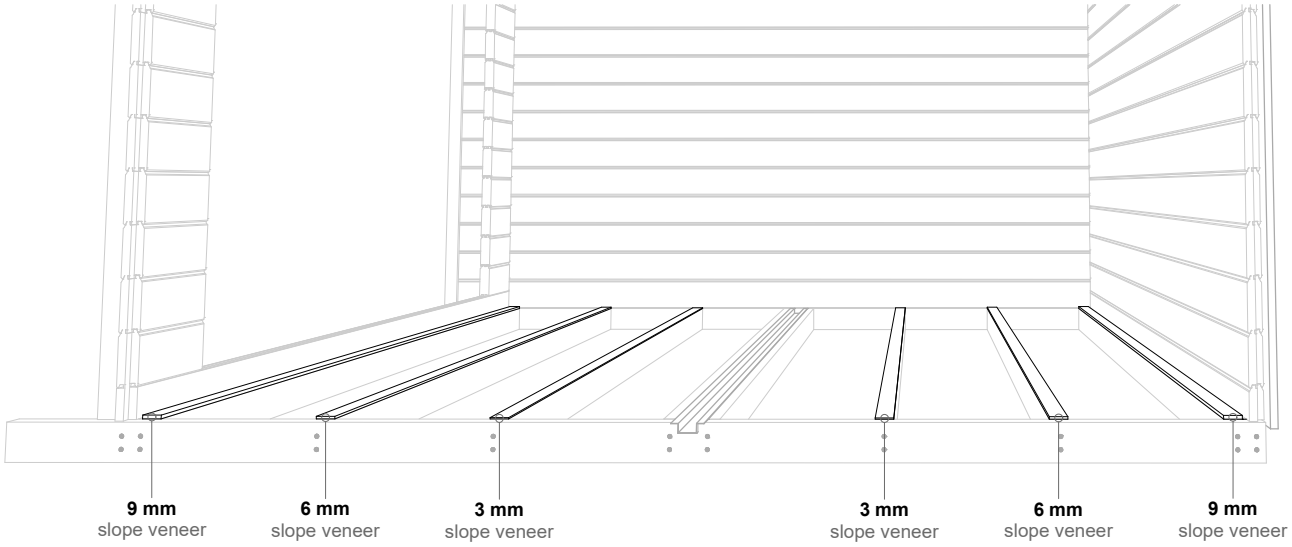




Scheme 3.6

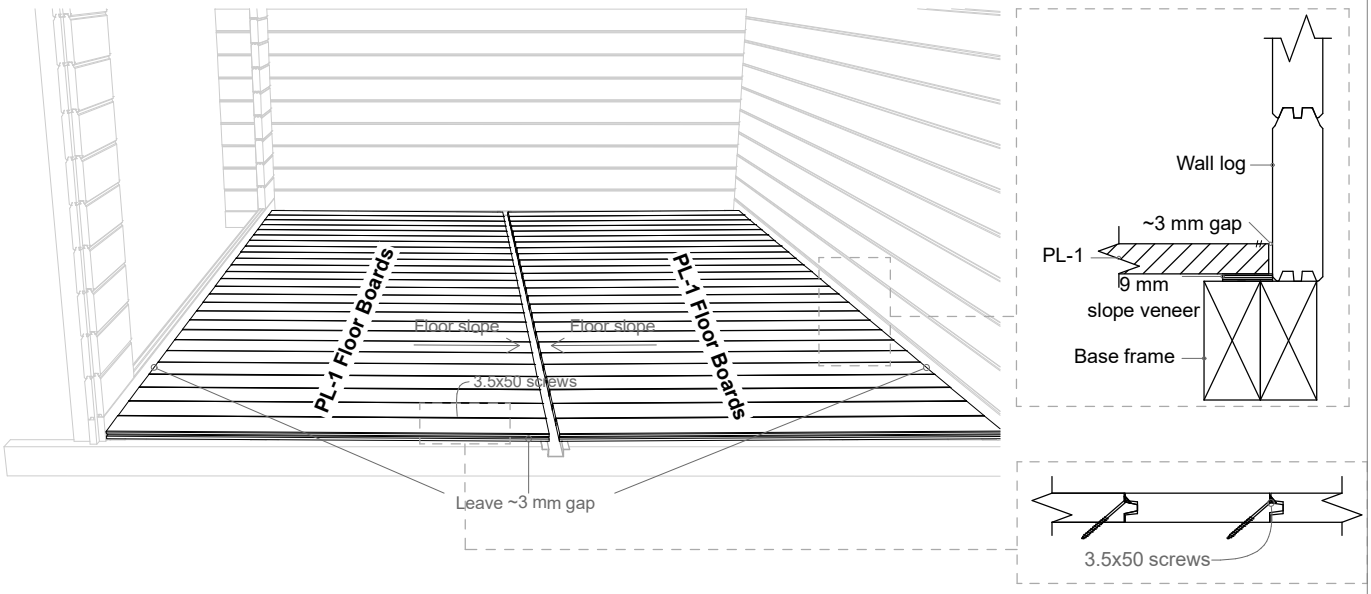
STEP 4 - Floor

4.1 Cut the slope veneers to length and place on the base frame for drainage (fixing with screws is optional, see Scheme 4.1).



Scheme 4.1

4.2 Install floor boards from the right, leaving ~3 mm gap at all walls.
Cut the last board to fit.
Fix boards with 3.5x50 screws (see Scheme 4.2).



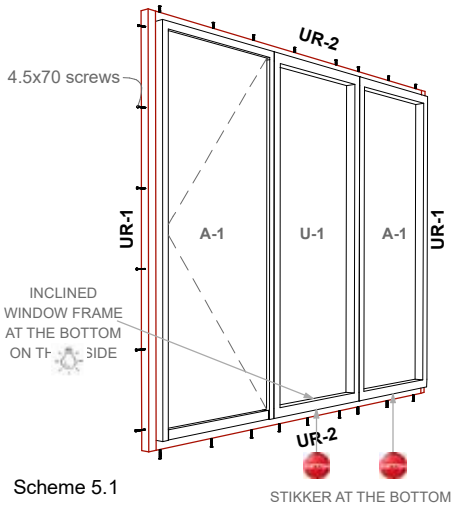
Scheme 4.2

STEP 5 - Doors and windows

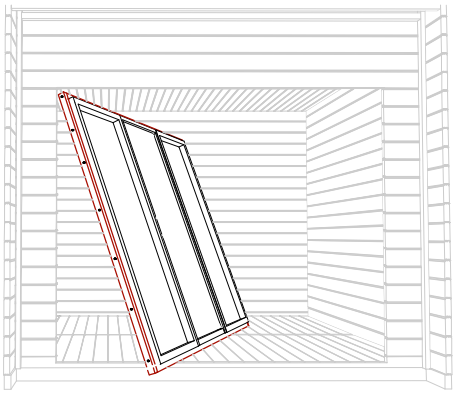
5.1 Attach UR-1 and UR-2 frame parts around the door and windows using 4.5x70 screws (see Scheme 5.1).
Important: The inclined part of the window frame must face indoors, at the bottom (marked with a sticker).

5.2 Lift and tilt the door and windows diagonally into the openings from inside (see Scheme 5.2).
Remove the door glass from hinges to reduce weight if needed.

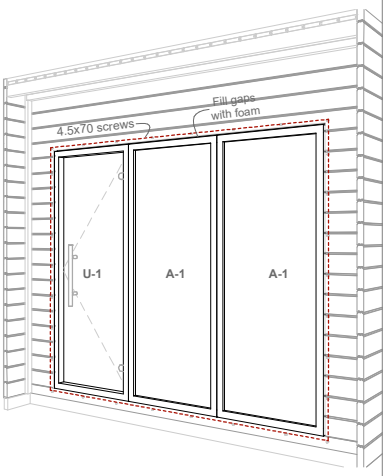
5.3 Fix frames to Wall 2 (front) from outside with 4.5x70 screws.
Reattach the glass and install the door handles.
Fill gaps around windows and door with foam for insulation (see Scheme 5.3).



Scheme 5.1



Scheme 5.2

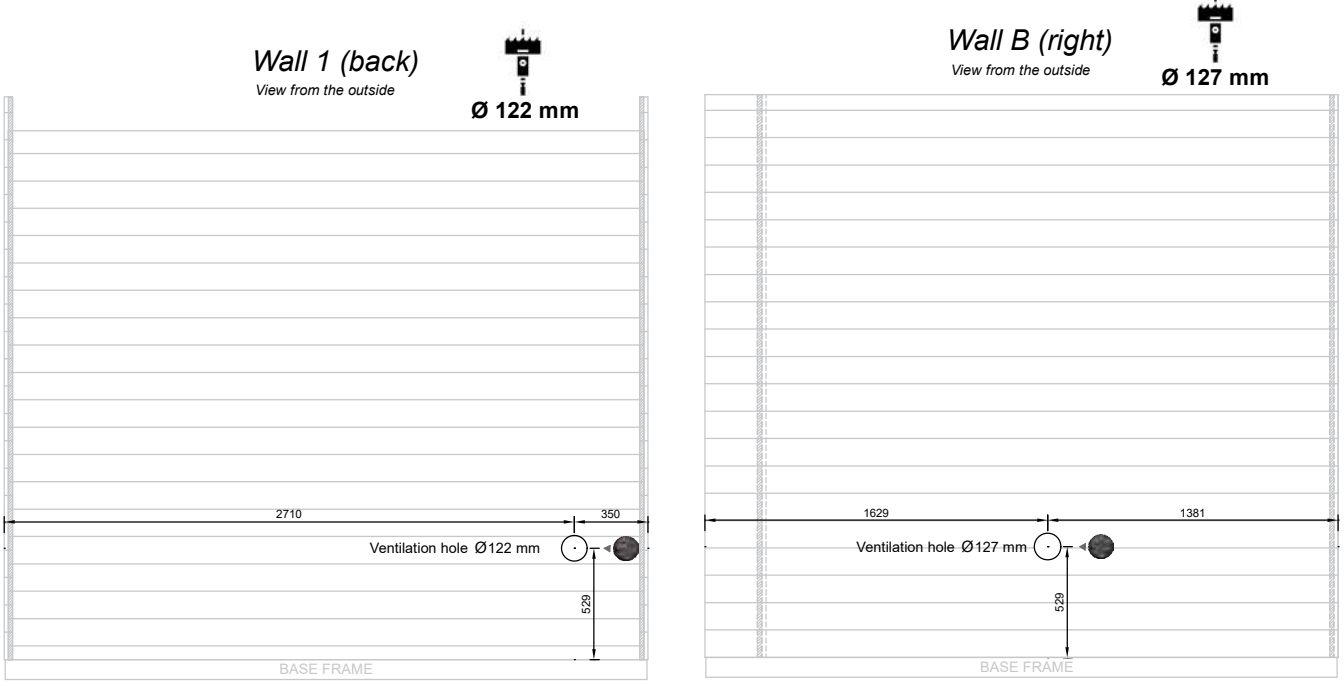


Scheme 5.3

STEP 6 - Ventilation

6.1 Cut the ventilation holes in the walls with a diameter of 127 mm and 122 mm using a hole saw.
For locations of ventilation openings see Scheme 6.1

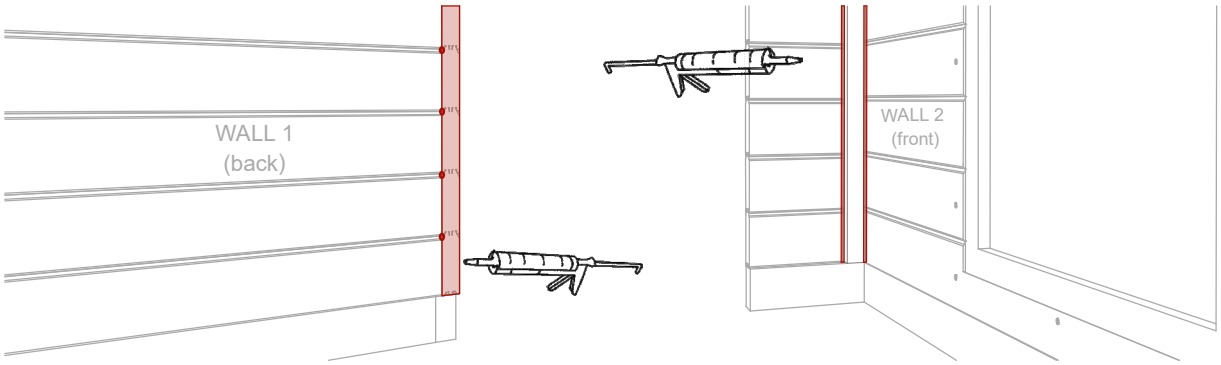
6.2 Cover the openings with ventilation grids. Use 3.5x40 black screws for fixing.



Scheme 6.1

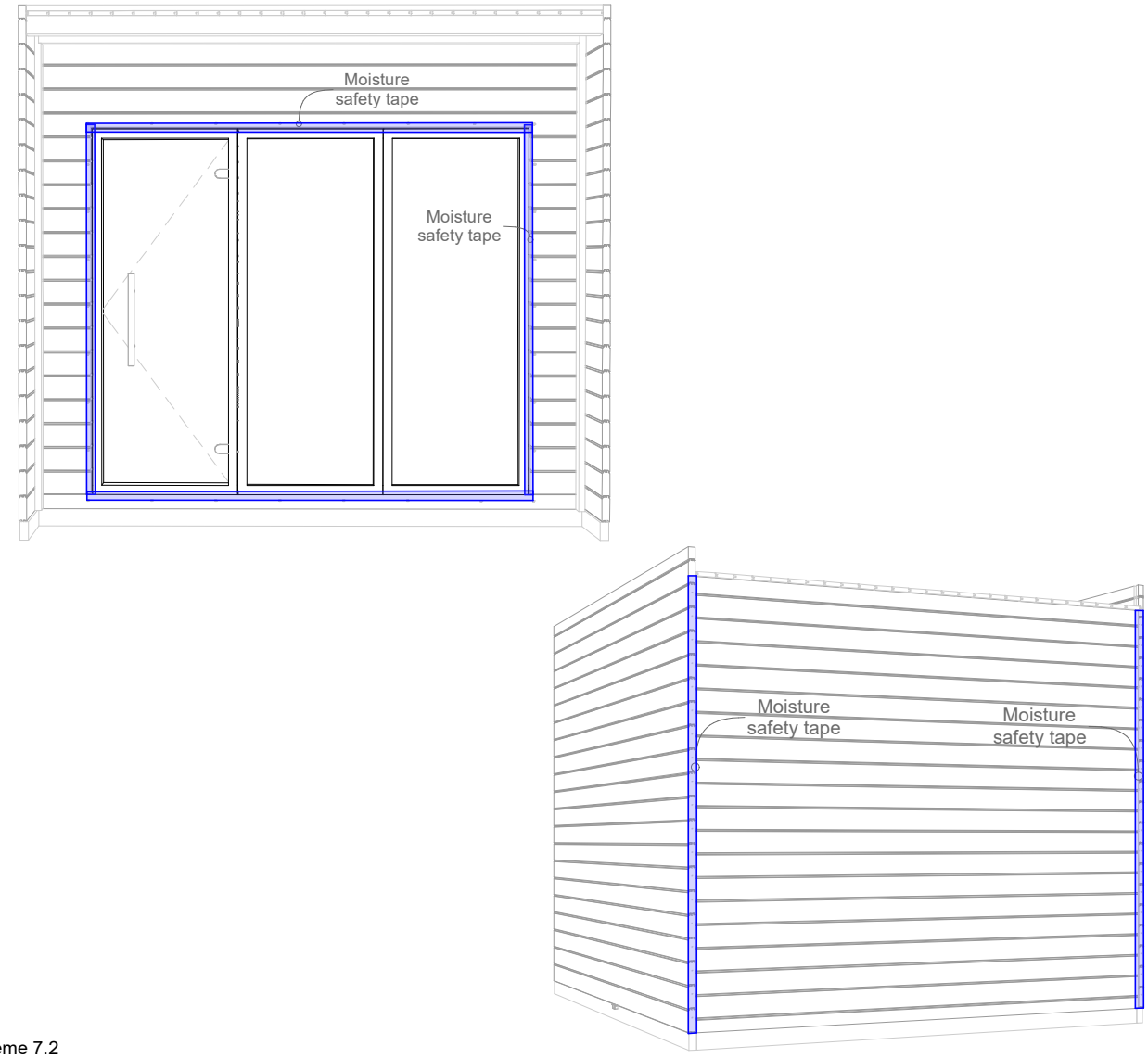
STEP 7 - Outer lining and moldings

7.1 Seal all the outside corners of the sauna with transparent silicone to prevent moisture and rainwater from entering the sauna, as shown in Scheme 7.1. Apply silicone to the open end grains at the back wall and spread it with a spatula to about 1 mm thickness.



Scheme 7.1

7.2 For extra protection, tape doors and windows and all outside corners of the sauna with moisture safety tape before installing the exterior moldings (Scheme 7.2).

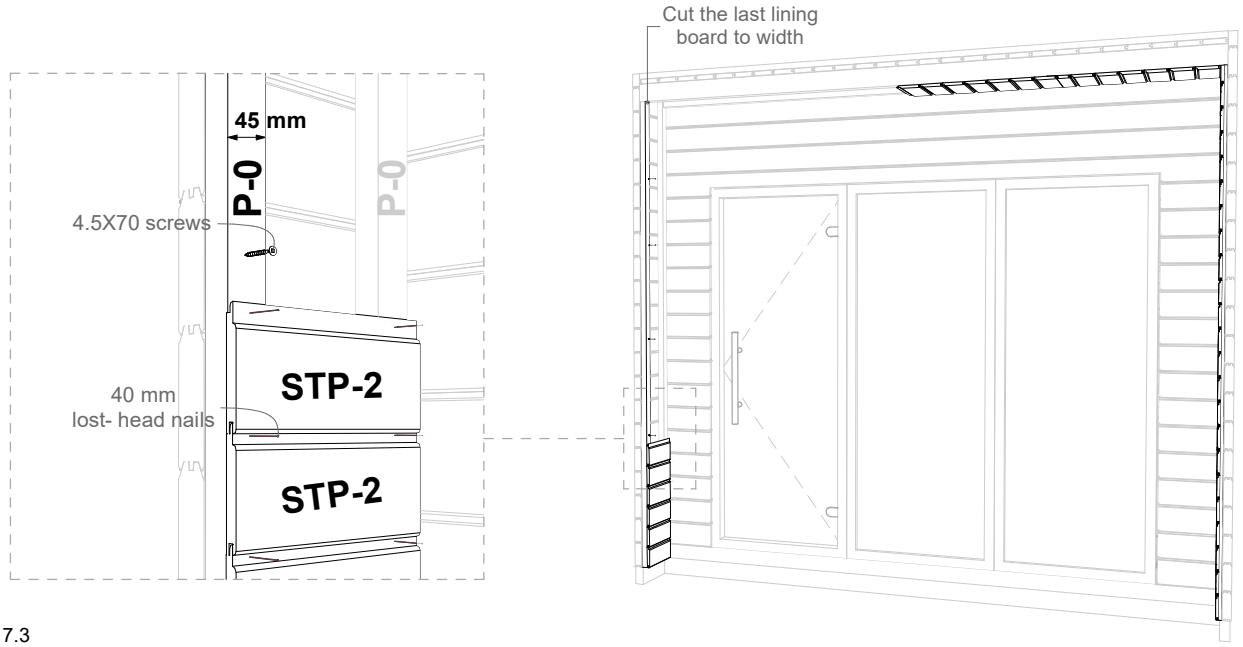


Scheme 7.2

STEP 7 - Outer lining and moldings

7.3 Attach the remaining P-1 posts to the side walls with 4.5x70 screws.

7.4 Install STP-2 outer lining boards from bottom up. Cut the last board to width.
Fix with 40 mm lost-head nails (2 per board). See Scheme 7.3.

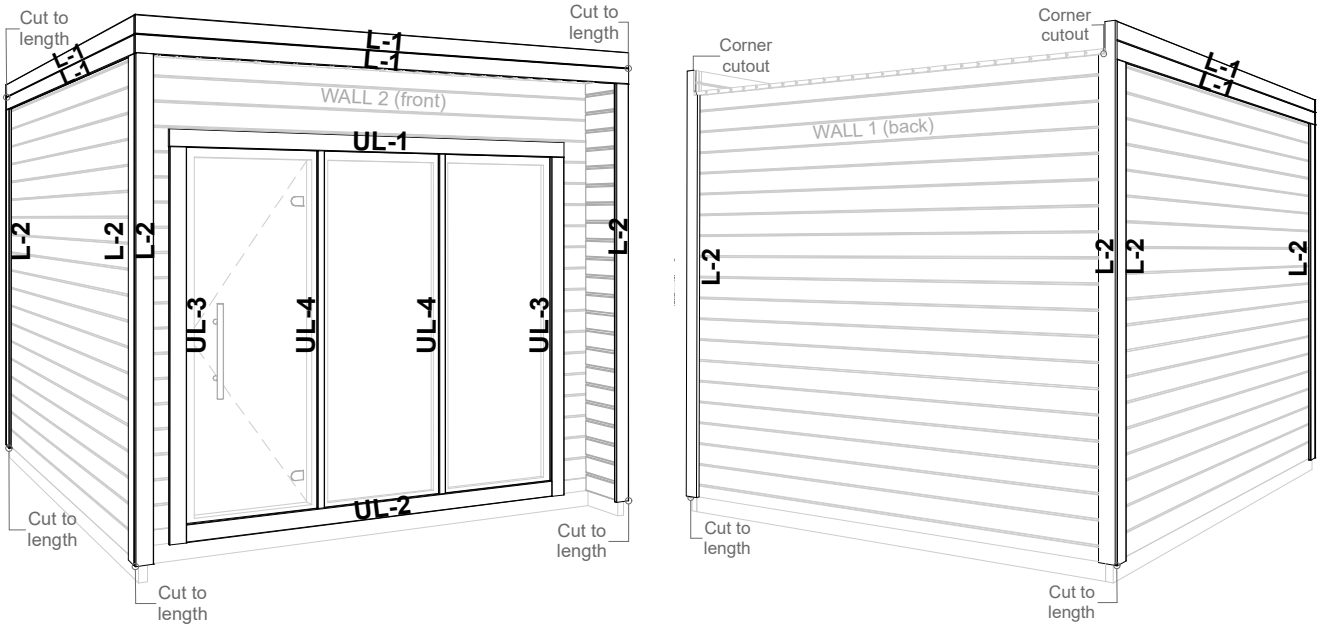


Scheme 7.3

7.5 Attach L-1 roof moldings flush with top of the walls. Cut to length and fix with 3x40 black screws.

7.6 Measure, cut, and install L-2 corner molding to the walls. Make corner cutouts as shown in Scheme 7.4.

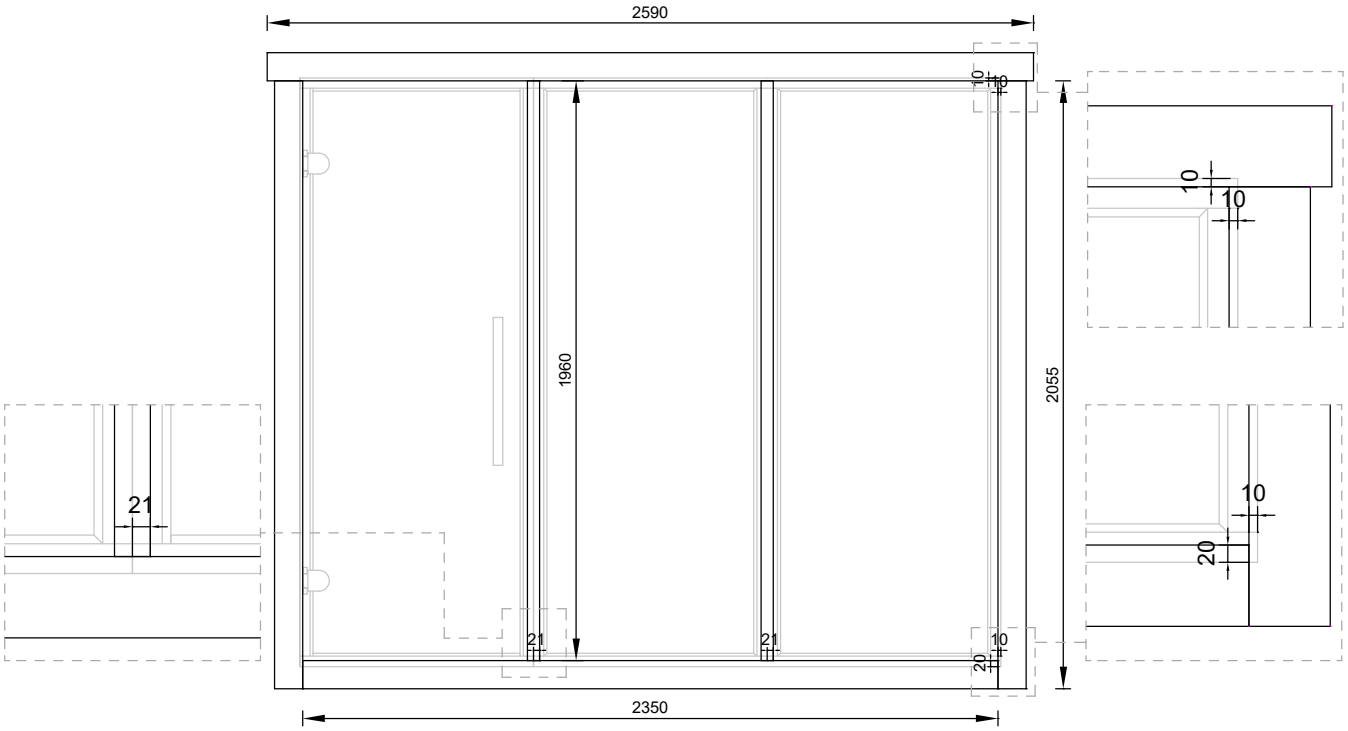
7.7 Paint outer window frames and all cut ends with the black paint.
Install door and window moldings using 3x40 black screws.
See Scheme 7.5 for correct overlay.



Scheme 7.4

STEP 7 - Outer lining and moldings

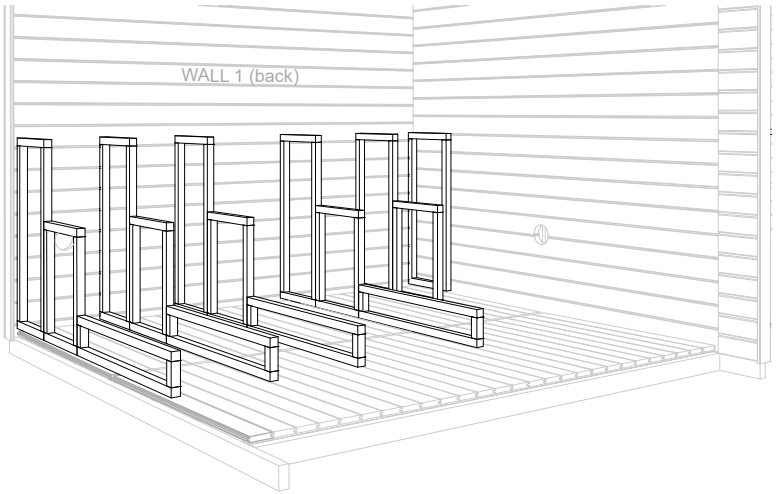
7.8 Install the moldings around the door and windows using 3x40 black screws.
For the correct overlay, see Scheme 7.5.

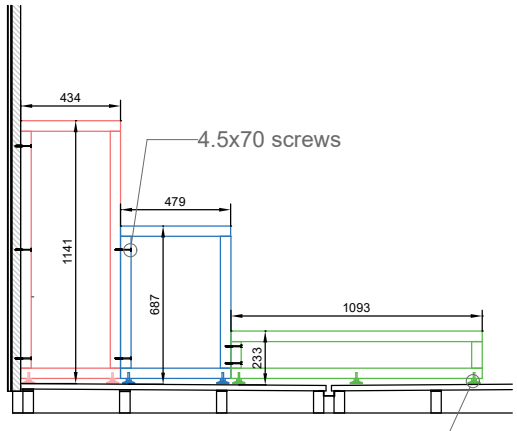


Scheme 7.5

STEP 8 - Sauna benches

8.1 Place the sauna bench supports against the back wall and fasten them to the wall and to each other with 4.5x70 screws, following the distances and heights indicated in the scheme 8.1 and 8.2.
Adjust the height of the side frames through the adjustable legs.



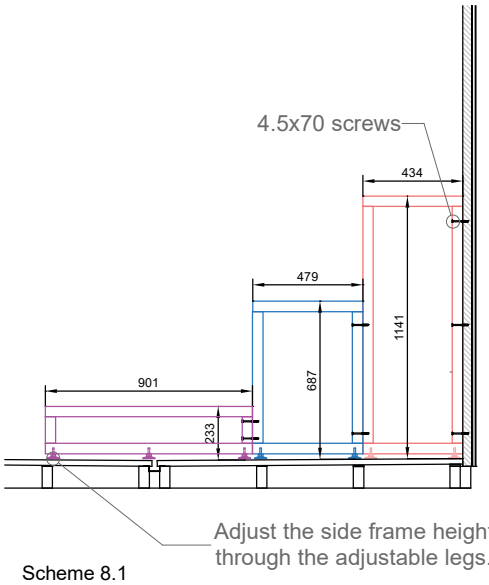


Scheme 8.1

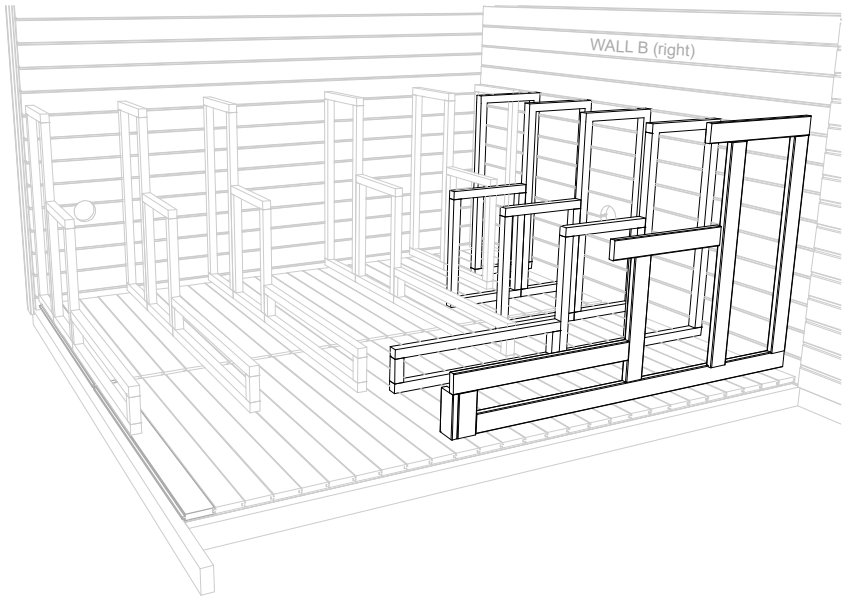
Adjust the side frame height through the adjustable legs.

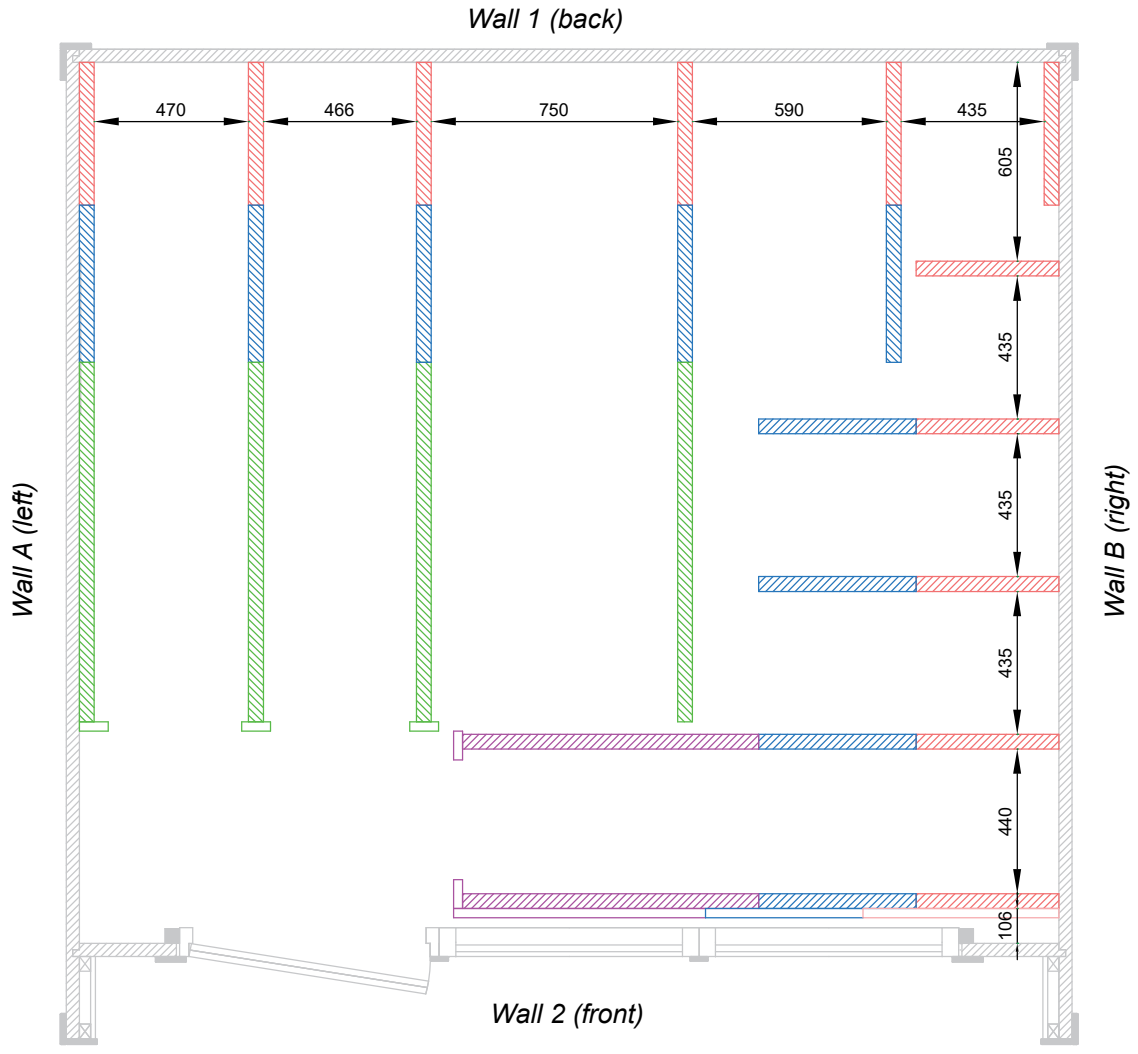
STEP 8 - Sauna benches

8.2 Repeat the same procedure along the righ wall, maintaining the distances and heights shown in the schemes.



Scheme 8.1





Scheme 8.2

STEP 8 - Sauna benches

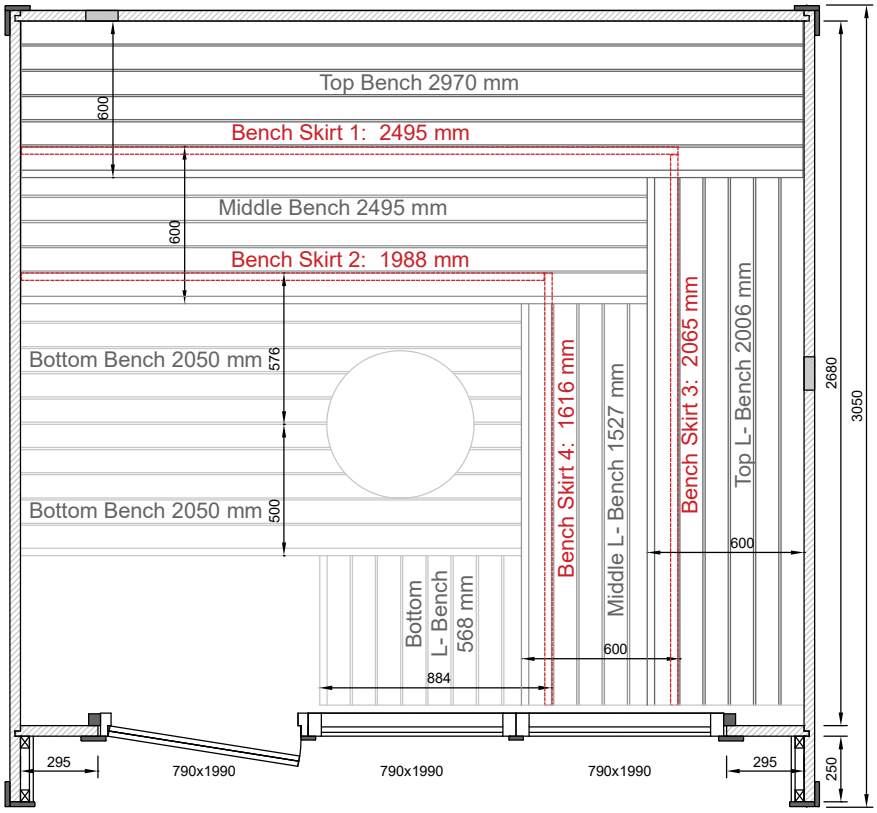
8.3 Install the exhaust ventilation system in the pre-drilled opening on the back wall, and the intake ventilation system through the bench skirt and side wall after the bench shirts have been set in place.

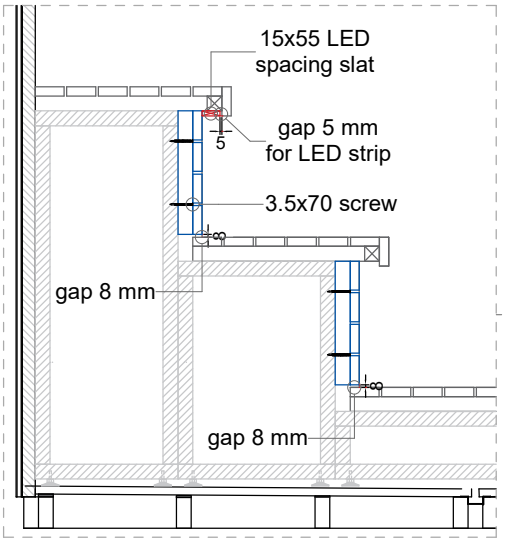
8.4 Install the 15x55 LED spacing slats beneath the sauna benches, leaving a 5 mm gap for the lighting as shown in the diagram. Run the LED strips and wiring through the designated space, then place the benches on top of the supports.

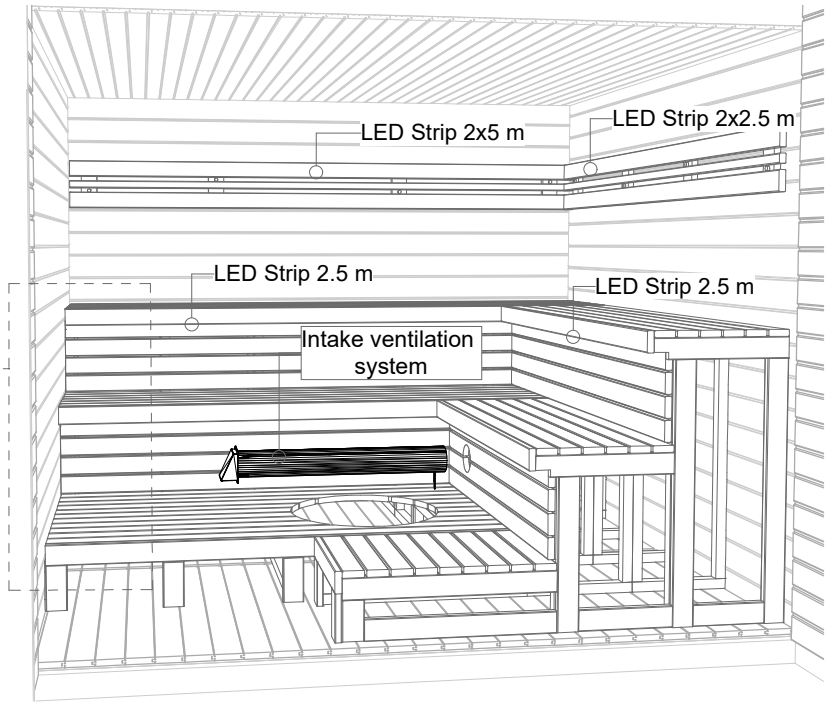
8.5 Place the benches on top of the supports. Fix all the benches to the supports through the bottom frame, using 4.5x70 screws.

8.6 Secure the bench skirts at the front using 3.5x70 screws. For future floor maintenance, unscrew and remove the bench skirts to clean the area behind the sauna benches.

8.7 Install the LED lighting along the backrests and attach them to the walls at a height of 500 mm above the top benches.

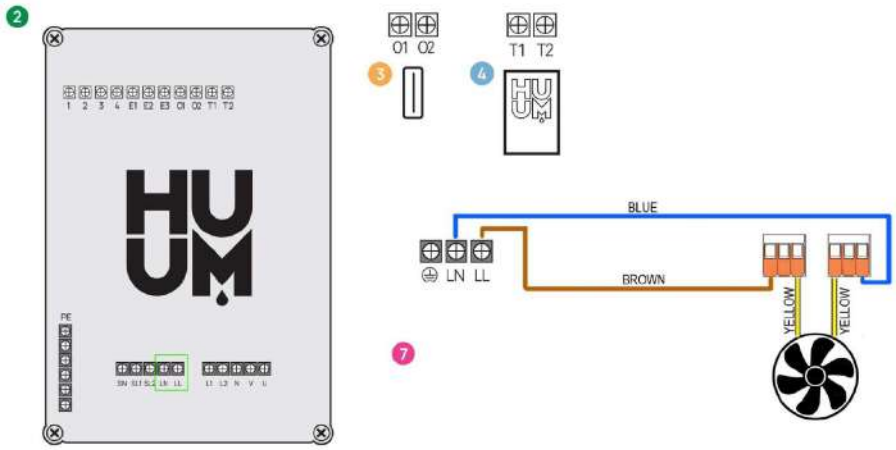






Scheme 8.4

Ventilation wiring instructions (step-by-step)

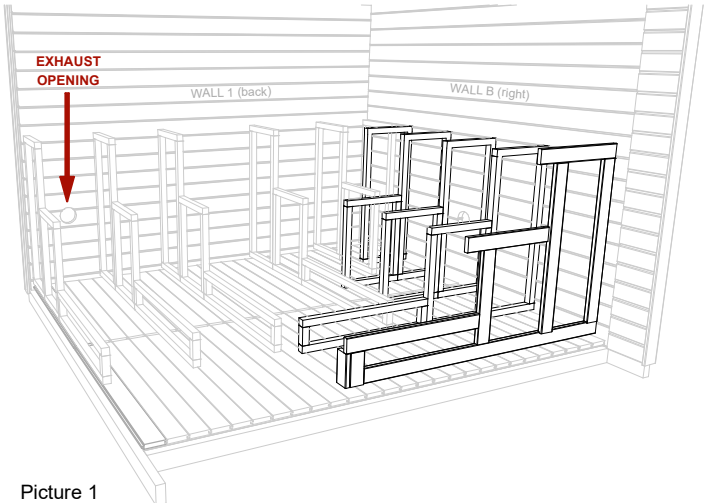


This set includes:

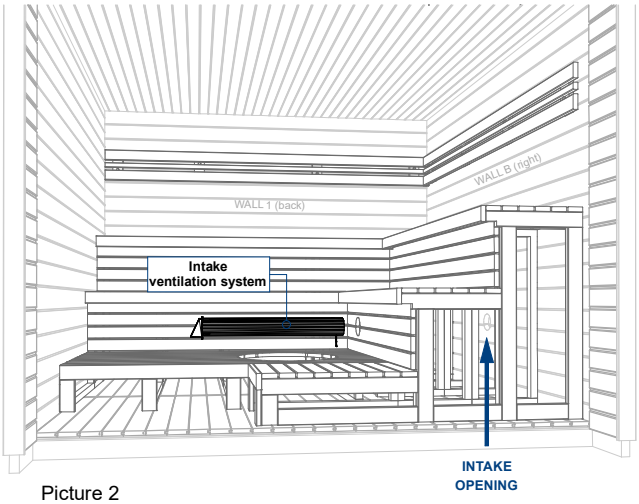
2 x Compact splicing connectors
1 x SIHF heat-resistant cable (5m/ ~16 feet 5in)
1 x Ventilation pipe + ventilation fan set (intake)
1 x Ventilation fan (exhaust)

Disclaimer!
Wiring must be done by a licensed electrician!

1. **Make sure that the lighting/vent is turned on within the HUUMs UKU settings.**
   Push and hold the display panel's button to enter the settings menu. Find the lighting/vent settings and turn it on.
   The lighting/vent only works when terminal N (neutral) has power coming in.
2. **Prepare the wire by unsheathing the cable from both ends.**
3. **Connect the unsheathed blue and brown wires to the ventilation fans (both intake and exhaust) with the help of the provided splicing connectors (as per the diagram above).**
4. **Place the exhaust ventilation fan in the back wall of the sauna (Picture 1).**
5. **Place the intake ventilation pipe through the bench skirt in the right wall. (Picture 2)**
6. **Double click the display panels button to switch on the ventilation fans.**
7. **Test which way the air is being moved.** Make sure that the intake ventilation fan (inside the ventilation pipe) is blowing air into the sauna and the exhaust ventilation fan is pulling the air outside the sauna. This can be tested by connecting it to a 60Hz 120V power supply e.g. the UKU main module's LN and LL terminals. If the air is moving the wrong way, switch the two yellow wires (the fan doesn't have polarity, switching the two wires = the air will start moving the other way)



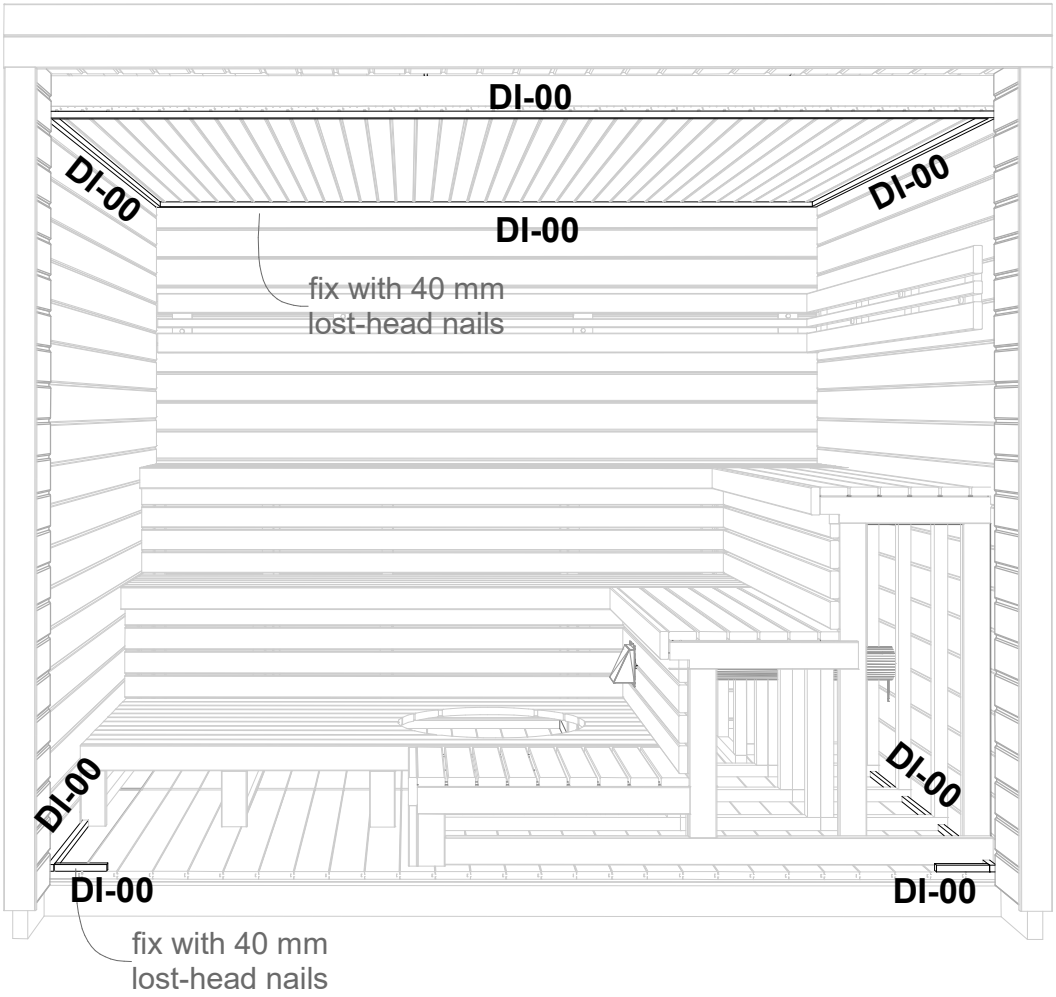
Picture 1



Picture 2

STEP 9 - Interior moldings

9.1 Measure and cut to length all DI-00 ceiling and floor moldings and fix them in place with 40 mm lost-head nails (Scheme 9.2).



Scheme 9.1

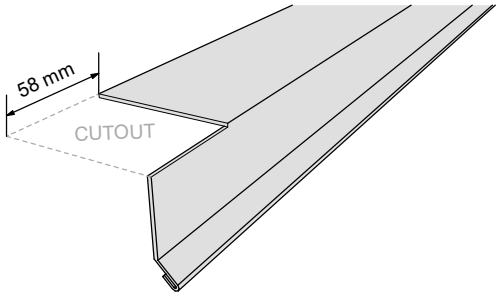
STEP 10 - Roof covering and roofing sheets

10.1 Measure the overall width of the sauna and cut the metal drip edge to that length minus 2 mm using sheet metal scissors. Remember to wear gloves for protection while cutting.

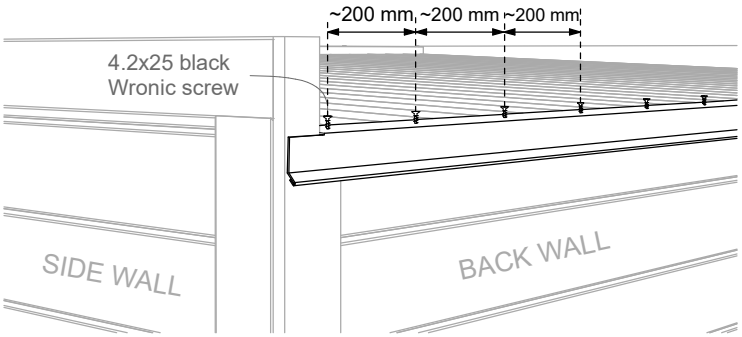
10.2 Measure and mark 58 mm on the top side of the drip edge at both ends, then cut out these marked sections as shown in Scheme 10.1.

10.3 Place the drip edge on top of the roof boards and secure it using 4.2x25 black Wronic screws. Space the screws approximately 200 mm apart, as shown in Scheme 10.2.

Back wall metal drip edge:

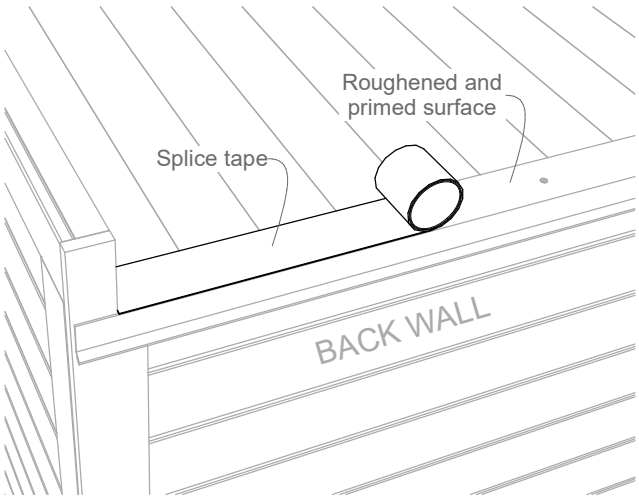


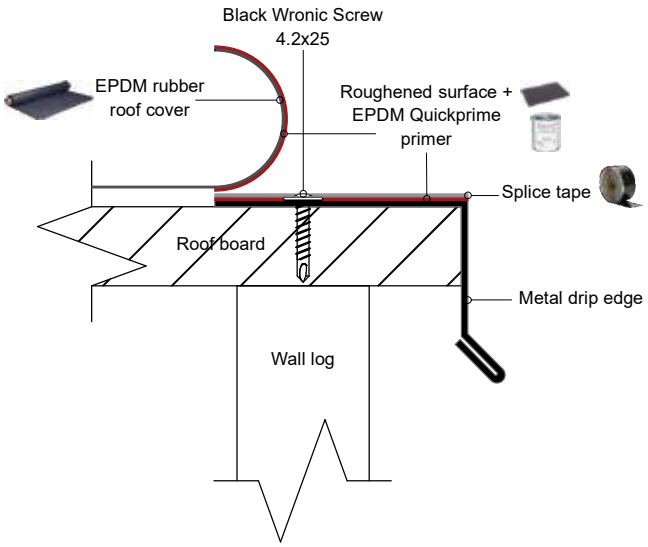
Scheme 10.1



Scheme 10.2

10.4 Roughen the upper surface of the drip edge with a sanding pad, then apply EPDM Quickprime primer on top. Cut the double-sided splice tape to length, remove the cover from one side, and place it on the primer-coated drip edge. Do not remove the cover from the top side of the tape at this stage!



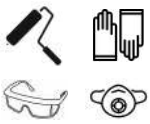


Scheme 10.3

STEP 10 - Roof covering and roofing sheets

10.5 Clear the roof of all debris and fasteners, and thoroughly clean the surface to eliminate dirt, dust, ice, snow, water, and any other contaminants.

10.6 Before and during installation, check the packaging and EPDM roll for any damage. Position the rubber roof cover carefully, ensuring it is parallel to the walls and extends evenly on both sides of the sauna.

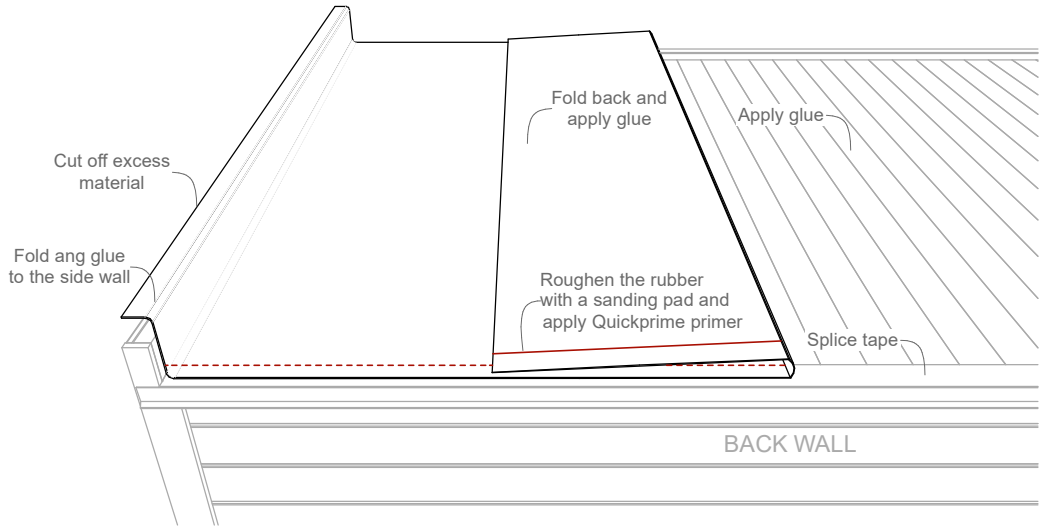


10.7 Fold back half of the roof cover and begin applying glue to both the roof boards and the rubber. Leave approximately 10 cm of the back wall without glue to allow for attachment to the splice tape later. Do not apply glue to the side walls at this stage; that section will be glued later. Always work in a well-ventilated area and wear gloves, safety goggles, and a respirator for safety (Image 2).

10.8 ATTENTION! Wait until the glue is dry to the touch on both surfaces (approximately 15 minutes or longer) before folding the rubber back into place. Allowing adequate waiting time is crucial to prevent bubbling in the rubber once it is set.

10.9 Turn the glue-coated rubber onto the prepared roof boards and smooth it out with a broom or brush, ensuring that no wrinkles or bubbles form. Repeat this process with the other half of the roof cover, and then glue the rubber to the side walls.

10.10 Roughen the rubber at the back wall using a sanding pad, then apply EPDM Quickprime primer on top. Remove the top cover from the double-sided splice tape and press the primed rubber onto it. Trim any excess material from all sides using scissors (see Scheme 10.4).

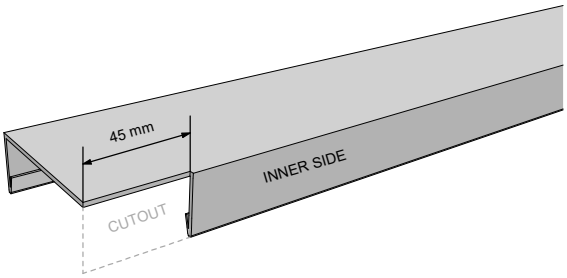


Scheme 10.4

10.9 Measure the overall depth of the sauna, add 160 mm to that measurement, and then cut the side wall roofing sheets to length using sheet metal scissors. Be sure to wear gloves for protection while cutting.

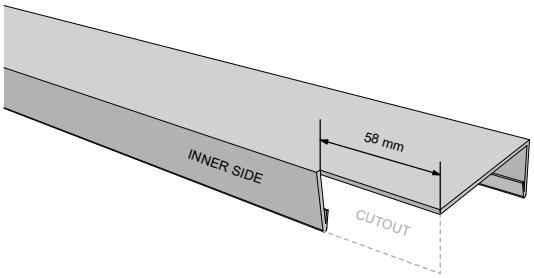
10.10 At the rear end, cut off 45 mm from the inner side of the roofing sheet as shown in Scheme 10.5. At the front end, cut off 58 mm from the inner side of the roofing sheet as indicated in Scheme 10.6.

Side wall roofing sheet (rear end):



Scheme 10.5

Side wall roofing sheet (front end):

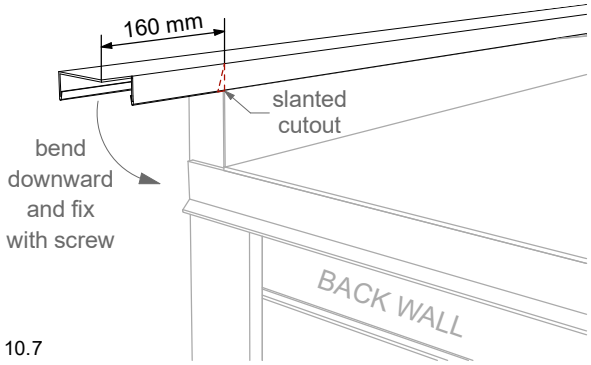


Scheme 10.6

STEP 10 - Roof covering and roofing sheets

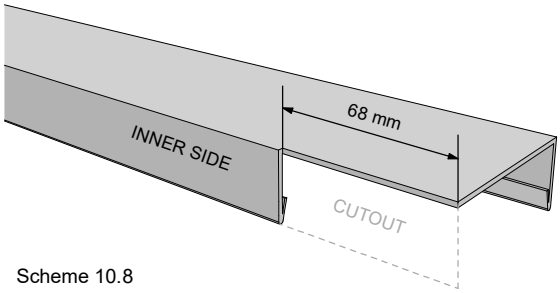
10.11 Install both side wall roofing sheets in place. Measure 160 mm at the rear end and make a slanted cutout. Use pliers to bend the end downward and secure it with a 4.8x25 roofing screw (see Scheme 10.7).

10.12 Measure the overall width of the sauna and cut the front wall metal roofing sheet to length. Cut off 68 mm from the inner side of the front wall roofing sheet at both ends, as shown in Scheme 10.8.



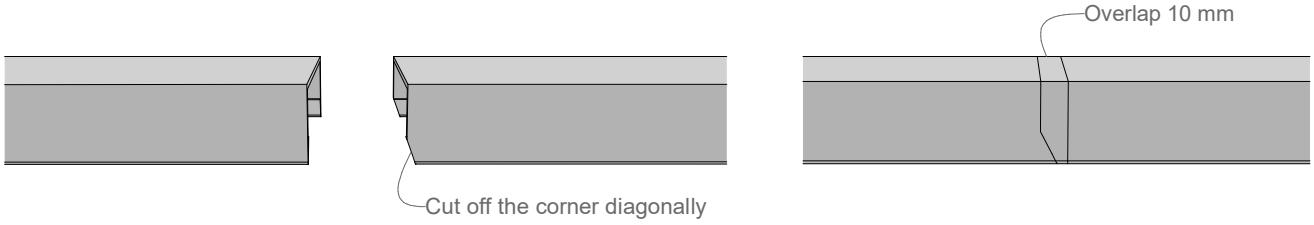
Scheme 10.7

Front wall roofing sheet:



Scheme 10.8

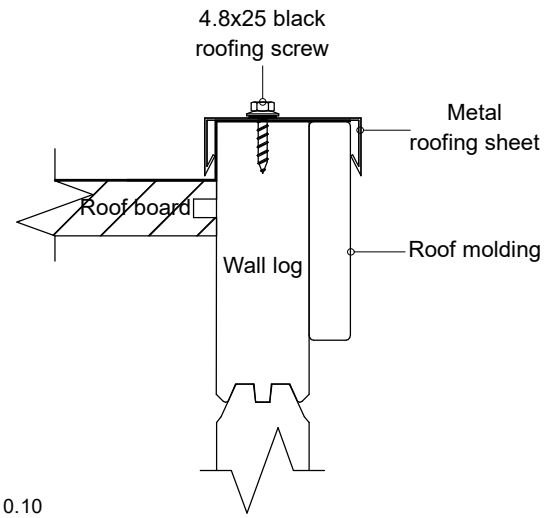
10.12 If the front wall sheet consists of two parts, align the sheets by overlapping them by 10 mm, as shown in Scheme 10.9.



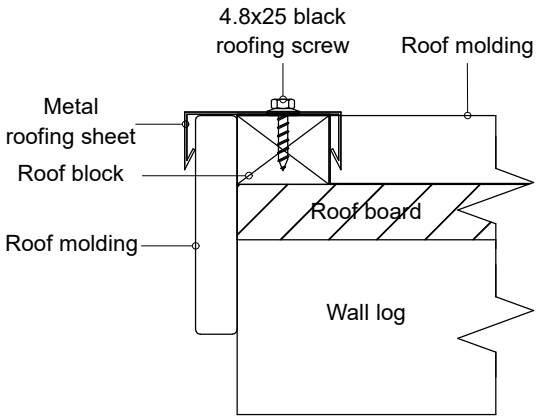
Scheme 10.9

10.12 Secure all the roofing sheets to the side walls and the roof block at the front using 4.8x25 black roofing screws. Space the screws approximately 300 mm apart, as shown in Scheme 10.10.

Side wall metal roofing sheet:



Front wall metal roofing sheet:



Scheme 10.10

Congratulations on a job well done!

You've successfully completed the installation and will soon be able to enjoy your new sauna.

Before your first use, please take a moment to read the maintenance and warranty guide, and make sure to complete the necessary actions. Enjoy your relaxing sauna experience!

Maintenance

Before using the sauna for the first time, it's essential to treat the interior surfaces, window frames of the steam and anteroom, and the interior door frames with a specialized protective solution. This will shield the wood from humidity and dirt, ensuring lasting durability. Regular maintenance will keep it looking and performing at its best!

We also strongly recommend treating the benches and footrests with a protective oil to extend their lifespan. This treatment should be repeated once or twice a year to maintain their condition.

Here are a few suitable products for sauna protection, but feel free to explore similar options available locally:

- TEKNOS Satu Saunasuoja
- Tikkurila Supi Saunasuoja

Prior to the sauna's initial use and then annually thereafter, it's important to treat the door, doorframe, threshold, window frames, and the floors of the anteroom with lacquer. This will help protect these surfaces and maintain their appearance over time. For this, we recommend:

- Teknos Helo Aqua 40

You can also check out other similar options available at your local stores.

The exterior surfaces of the sauna should receive their first protective coating immediately after installation. A second coating should be applied about two months after purchase to help maintain its appearance and protect against UV damage. For this, we recommend:

- Remmers Aidol HK-Lasur

Please note that the seller is not liable for any damage caused to the sauna due to insufficient maintenance or lack of maintenance altogether.

Warranty

The products come with a 24-month warranty period covering material and production defects, effective from the delivery of the sauna to the client.

The warranty is valid only if the user has reviewed and follows the user manuals. It does not cover natural characteristics of wood, such as discoloration or cracks resulting from fluctuating or excessive humidity.

Additionally, the warranty does not cover normal wear and tear or any damage caused by incorrect installation or use. Damage resulting from thunder or other weather phenomena is also excluded.

The warranty will be voided if attempts are made to change or fix the product independently, or if it is not used for its intended purpose. Improper storage conditions will also void the warranty.

To ensure the warranty remains valid, the buyer must inform the seller of any defects within a reasonable timeframe (7 days).