Leil® SAUNAS

Construction Guide

Black Cube Premium



Read the manual and check the parts for completeness before assembly!
Images are illustrative and may di er from reality, the construction principle is the same.

USER MANUAL OF THE SAUNA

1. It is recommended to install the sauna above ground level to prevent the legs of the sauna from coming into direct contact with the ground. Install a water-resistant material, such as bitumen strips, between the legs of the sauna and the base.
2. Make sure that the surface on which you install the sauna is leveled and stable both before and after installing the sauna. Otherwise, the doors of the sauna may not open and close properly.
3. If the top part of the chimney has not been installed upon delivery of the sauna, it should be placed into the chimney pipe from the roof of the sauna.
4. During the first heating of the sauna, it must be constantly supervised and the doors should be kept open, as the stove emits a specific smell when first heated. Read more from the user manual of the sauna stove.
5. The maximum permitted temperature of the steam room is +90 °C. If heated to a higher temperature, the sauna may be overheated.
6. After each use of the sauna, it is recommended to keep the stove warm, the doors open, and the footrests up for a while to allow the sauna to dry from the inside. If necessary, the water on the floor should be directed to the drain with a floor scraper to avoid damage caused by excess humidity.
7. **When the weather is humid and if the wood has expanded, the metal hoops around the sauna should be loosened to avoid breaking the clamps and jamming the doors.** The hoops can be adjusted from the nut of clamp M12 located on the side of the sauna. To alleviate excess tension on the clamp and the hoop itself, loosen nut M12 (wrench no. 19) until the hoop can be shifted left and right. Then, re-tighten the nut until the hoop is under slight pressure and pressed fully against the wood so that it cannot be pulled away from the walls of the sauna. **When the weather is less humid and the wood has dried, the metal hoops around the sauna should be tightened from nut M12**. Tighten the nut so the hoop is under slight pressure. The hoop must be pressed fully against the wood so that it cannot be pulled away from the walls of the sauna. **LEIL SAUNAS is not liable for damage caused to the sauna due to a broken hoop clamp**.
8. If the door is shifted out of place when the hoops are tightened, lift the exterior door off the hinges and regulate the hinges. If this is not a sufficient solution, remove the trims of the door and unscrew the screws of the doorframe beneath them. This will relieve the pressure on the door. If necessary, the opening of the door may be made wider, after which the screws should be re-tightened and the trims and door reinstalled.
9. The interior door should be regulated from the stopper and, if necessary, the hinges. If this is not a sufficient solution, remove the trims of the door and unscrew the screws of the doorframe beneath them. This will relieve the pressure on the door.
10. Locking the sauna door from the inside is prohibited.
11. In order to avoid damage caused by the weight of snow, any snow should be removed from the roof of the sauna. Keep in mind that the roof covering should not be damaged during snow removal.
12. If your sauna has lighting, install a 3G 2,5 mm2 outdoor power cable and connect it in junction box provided with the sauna (L1 – brown , N – blue , GR – green-yellow). The power cable of the sauna must be connected to a residual-current circuit breaker! Consult an electrician if necessary.

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Maintenance of the sauna

1. **The interior surfaces of the sauna, the window frames of the steam and washing room, and the frames of interior doors must be treated with a special substance before initial use to protect them from humidity and dirt and extend the useful life of the sauna.** Later, this should be done once or twice a year. TEKNOS Satu Saunasuoja or Tikkurila Supi Saunasuoja may be used for this.
2. **Before initial use of the sauna, the benches and footrests must be treated with a protective oil to extend their useful life**. Later, this should be done once or twice a year. TEKNOS Satu Laudesuoja or Tikkurila Supi Laudesuoja may be used for this.
3. **Before initial use of the sauna and once a year after that, the door, doorframe, threshold, and window frame of the anteroom as well as the floors of the washing room and anteroom should be treated with the lacquer Teknos Helo Aqua 40.**
4. **The exterior surfaces of the sauna are given the first protective coating during production (DIY saunas are not treated). The second coating should be applied approximately two months after purchasing the sauna to extend its useful life and maintain its appearance.** Use Remmers Aidol HK-Lasur for this.
5. **LEIL SAUNAS is not liable for damage caused to the sauna due to insufficient maintenance or no maintenance at all.**

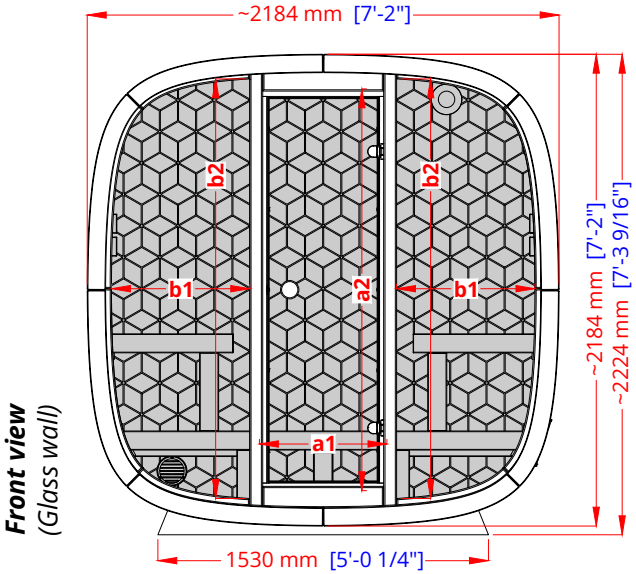
WARRANTY

- The products have a 24-month warranty covering material and production defects, taking effect from the delivery of the sauna to the client.
- The warranty is valid if the user has reviewed the user manuals and abides by them.
- **The warranty is void if the sauna has not been assembled by LEIL SAUNAS.**
- Please note! The warranty period differs for products on trailers and products intended for commercial use.
- The warranty does not cover defects characteristic of wood, such as discoloration, changes, issues, or cracks caused by alternating or excess humidity, etc.
- The warranty does not cover cracking of the bitumen sealant between the roof covering and the end arches due to drying of the wooden material. If the sealant cracks, the old sealant must be replaced with a new one (ROOF REPAIR SEALANT SOUDAL ROOF REPAIR 310 or similar).
- The warranty does not cover normal wear and tear of the product caused by its use and damage caused by incorrect installation or use is not compensated.
- The warranty does not cover damage caused by thunder or other weather phenomena.
- The warranty does not cover damage caused by incorrect installation by the client.
- The warranty expires when attempts are made to independently change or fix the product or if it is not used for its intended purpose.
- The warranty is void if the product is stored in an incorrect position or in the wrong conditions.
- The warranty is valid if the buyer informs the seller of the defect within a reasonable time (7 days).

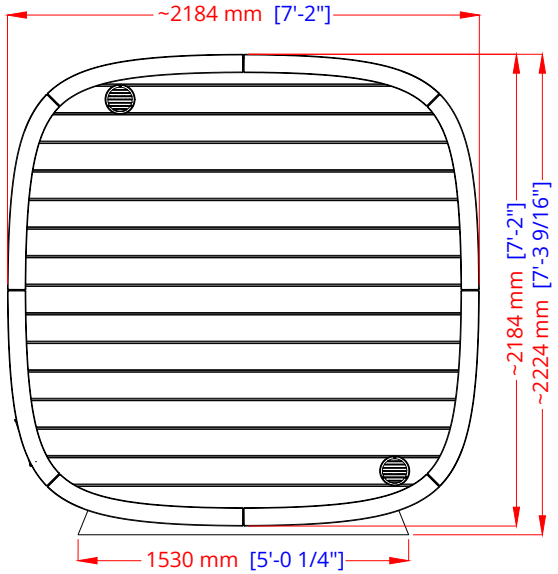
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BLACK Cube Premium views
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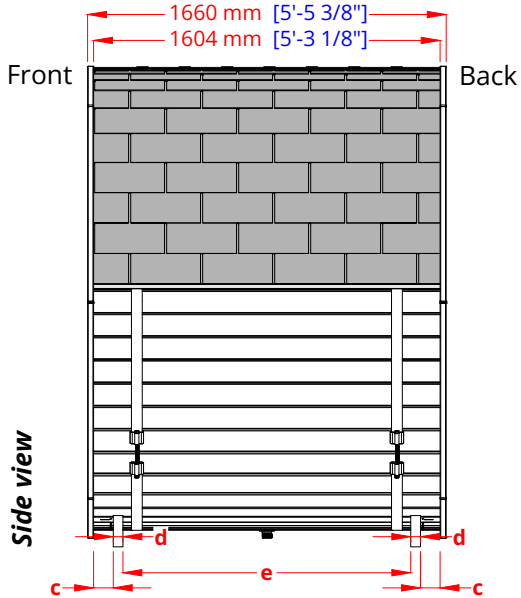
BLACK Cube SERIES



Front view
(Glass wall)



Back view
(Wooden wall)

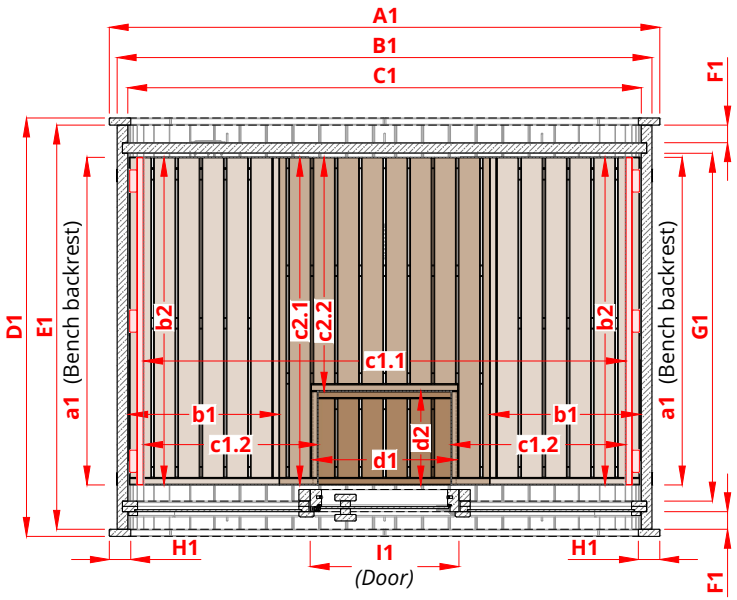


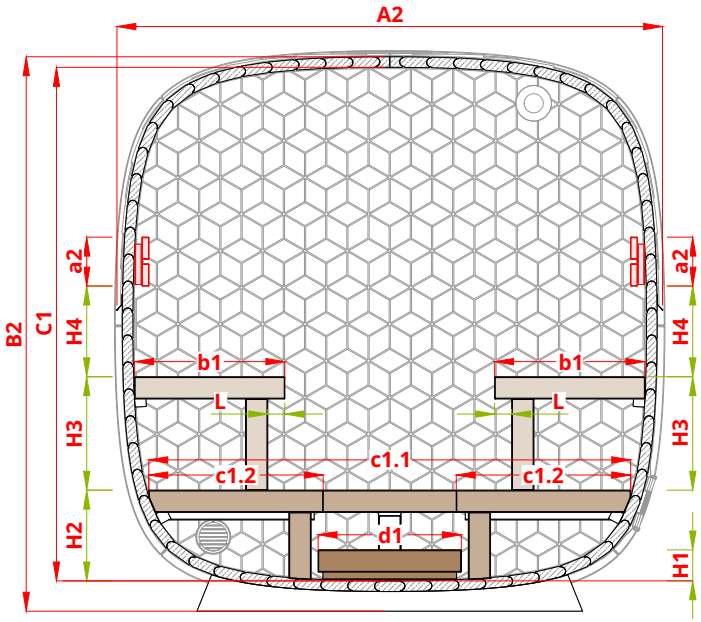
Side view

Dimensions and **measurements**		
a1	590 mm	~ 1'-11 1/4"
a2	1860 mm	~ 6'-1 1/4"
b1	640 mm	~ 2'-1 3/16"
b2	1942 mm	~ 6'-4 1/2"
c	91 mm	~ 0'-3 9/16"
d	45 mm	~ 0'-1 3/4"
e	~1332 mm	~ 4'-4 7/16"

BLACK Cube SERIES

BLACK Cube Premium
views





	Dimensions and lengths	
A1	~ 2184 mm	~7'-2"
B1	~ 2122 mm	~6'-11 1/2"
C1	~ 2038 mm	~6'-8 1/4"
D1	1660 mm	~5'-5 3/8"
E1	1604 mm	~5'-3 1/8"
F1	70 mm	~0'-2 3/4"
G1	1380 mm	~4'-6 5/16"
H1	85 mm	~0'-3 3/8"
I1	590 mm	~1'-11 1/4"
A2	~ 2165 mm	~7'-1 1/4"
B2	~ 2200 mm	~7'-2 5/8"

	Dimensions and lengths	
a1	1300 mm	~4'-3 3/16"
a2	~ 194 mm	~0'-7 5/8"
b1	~ 596 mm	~1'-11 7/16"
b2	1300 mm	~4'-3 3/16"
c1.1	~ 1912 mm	~6'-3 1/4"
c1.2	~ 692 mm	~2'-3 1/4"
c2.1	1300 mm	~4'-3 3/16"
c2.2	928 mm	~3'-0 9/16"
d1	568 mm	~1'-10 3/8"
d2	372 mm	~1'-2 5/8"

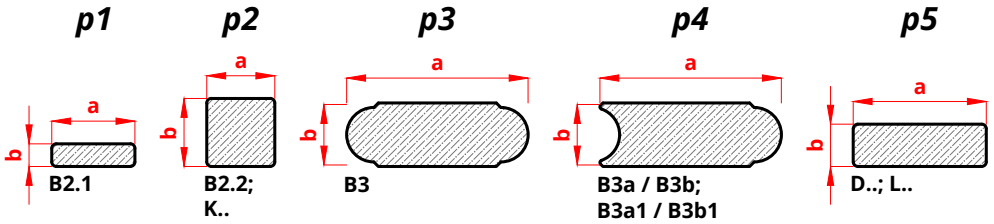
	Dimensions and lengths	
H1	~123 mm	~0'-4 13/16"
H2	~360 mm	~1'-2 3/16"
H3	450 mm	~1'-5 11/16"
H4	360 mm	~1'-2 3/16"
L	~ 68 mm	~0'-2 11/16"

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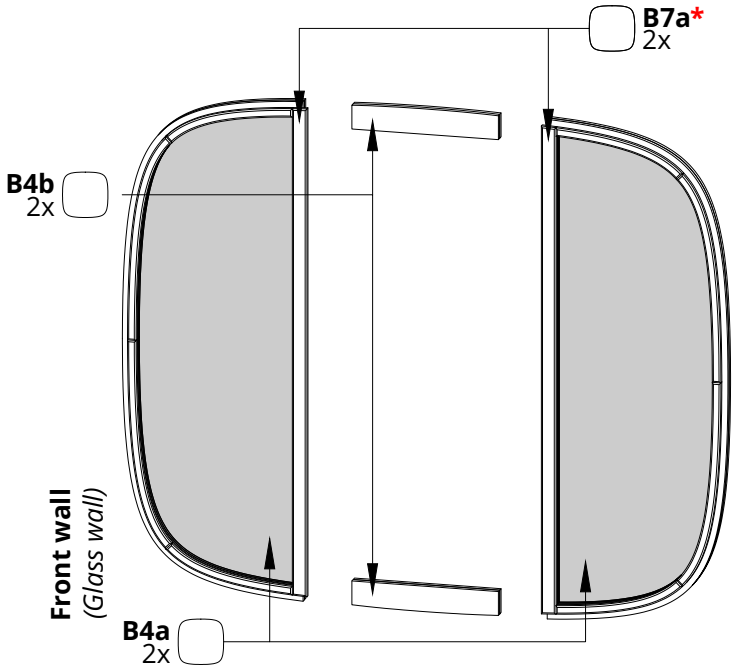
Sectional views from inside

Detail profiles

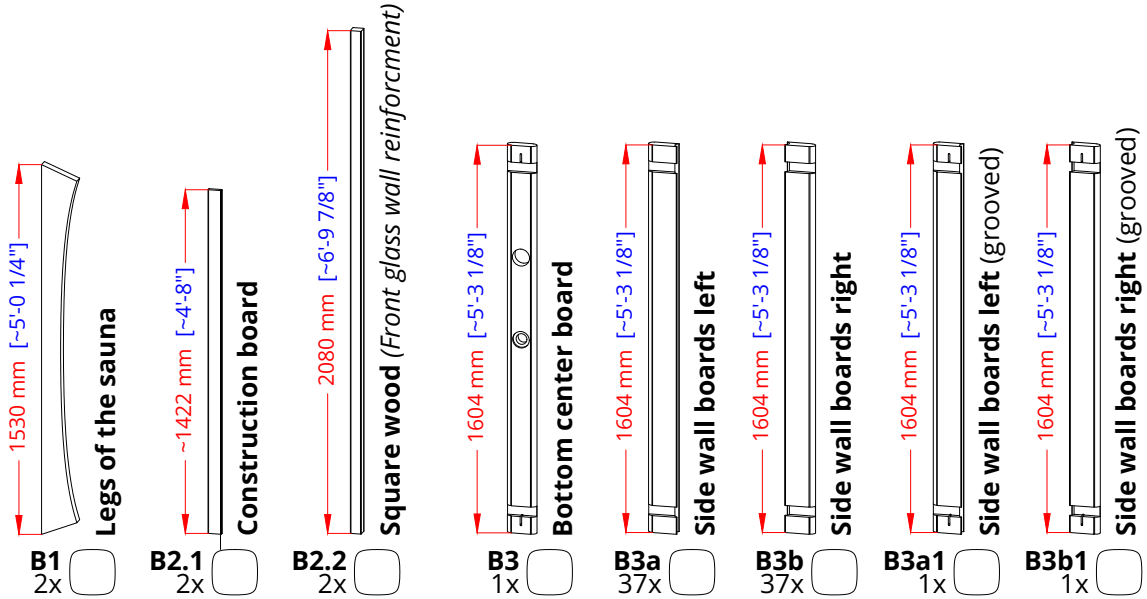


	a	b	a	b
p1	~55 mm	~15 mm	~ 0'-2 3/16"	~ 0'-0 9/16"
p2	~45 mm	~45 mm	~ 0'-1 3/4"	~ 0'-1 3/4"
p3	~120 mm	~40 mm	~ 0'-4 3/4"	~ 0'-1 9/16"
p4	~120 mm	~40 mm	~ 0'-4 3/4"	~ 0'-1 9/16"
p5	~88 mm	~28 mm	~ 0'-3 7/16"	~ 0'-1 1/8"

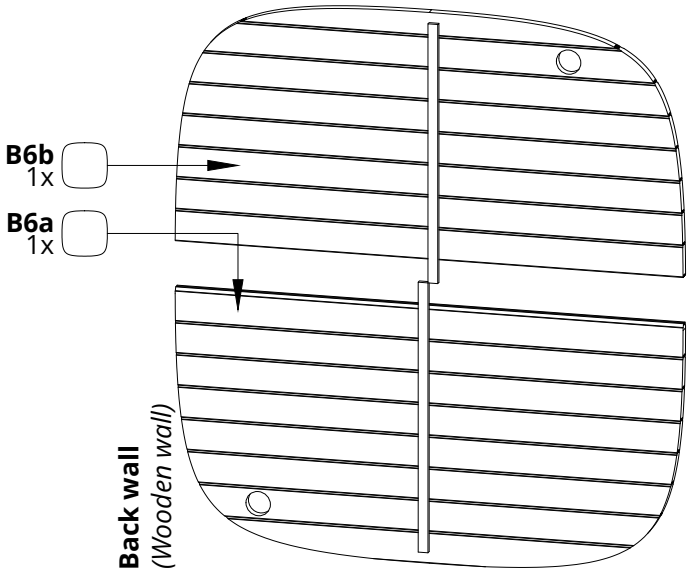
** Door molding **B7a** will be removed during construction.*



BLACK Cube SERIES

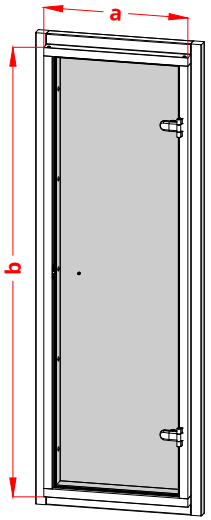


B3a and B3b look the same.
For construction, divide into equal quantities

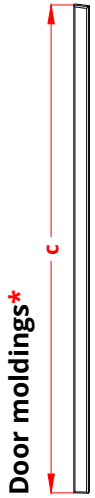


Detail list 1

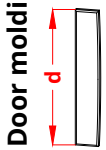
** Attached to the Front wall **B4a** will be removed during construction.*



B7 Glass front door
1x



B7b Door moldings*
2x



B7b Door moldings
2x



B7c Glass door handles
1 set

Dimensions and lengths					
a	590 mm	~ 1'-11 1/4"	M1 - Length	~7.9 m	~ 25'-11"
b	1860 mm	~ 6'-1 1/4"	R1 - Length	~1.6 m	~ 5'-3"
c	~2019 mm	~ 6'-7 1/2"	R2 - Length	~1.6 m	~ 5'-3"
d	~560 mm	~ 1'-10 1/16"	R3 - Length	~1.7 m	~ 5'-6 15/16"

Wood protection and sealing materials



Varnish (*INARIJÄRVI*)
C1 1x



Varnish (*HELO AQUA 40*)
C2 1x



Paint (Black) (*Teknos Aqua Primer*)
C3 1x

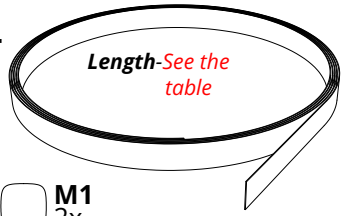


Paint (Black) (*Teknos Visa Base 3*)
C4 1x



Bitumen sealant
C5 1x

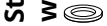
BLACK Cube SERIES



Steel strap
M1 2x



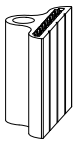
Steel bolt
M2 2x



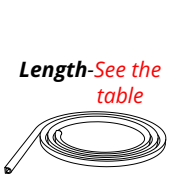
Steel washer
M3 4x



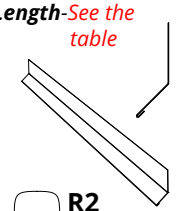
Steel hex nut
M4 2x



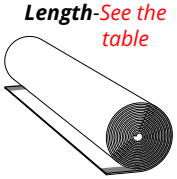
Steel straps tension clamp
M5 4x



Rubber seal
R1 2x



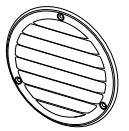
Eaves edge (*tin strip*)
R2 2x



Roof underlay
R3 1x

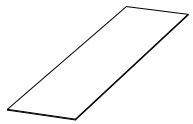


Piece of drain pipe
V1 1x

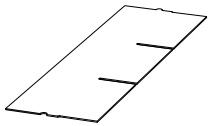


Ventilation grill cover
V2 5x

3x black, 2x brown



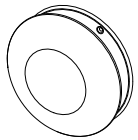
Ridge and eave bitumen sheet
R4 6 pcs.



Bitumen pattern sheets
R5 44 pcs.



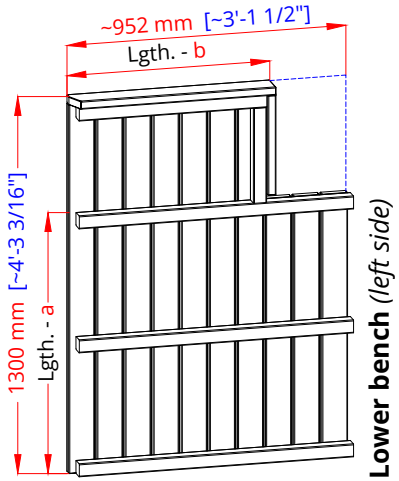
Side wall end coverings
R8 16x



Openable venti-lation hood
V3 1x

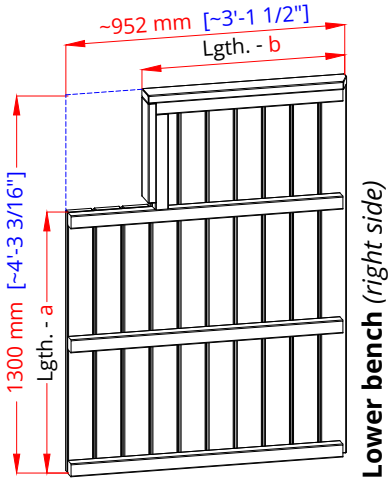
Detail list 2

Exterior construction



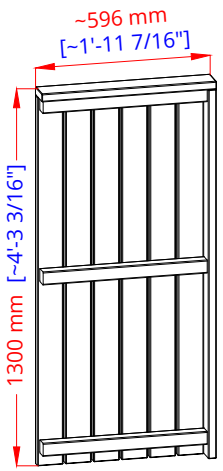
I1a
1x

Lower bench *(left side)*



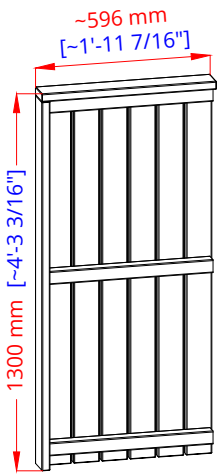
I1b
1x

Lower bench *(right side)*



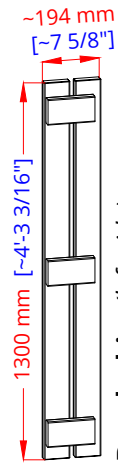
I2a
1x

Upper bench *(left side)*



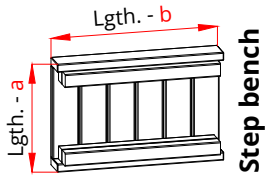
I2b
1x

Upper bench *(right side)*



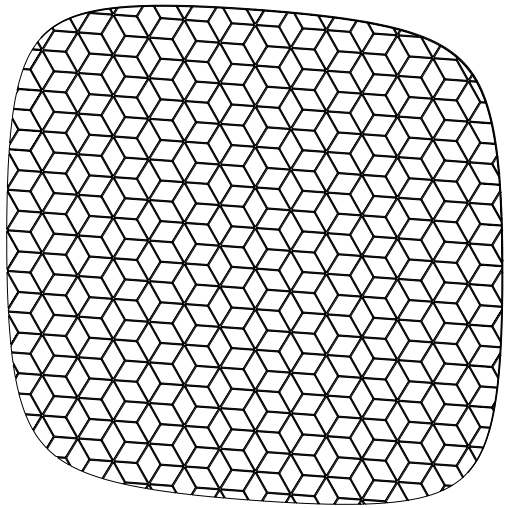
I3
2x

Bench skirt *(left side)*



I4
1x

Step bench



IBW
1x

Is in two pieces!!!

Interior back wall
(Hexagon decorative wall panel)

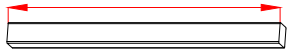
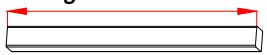
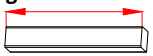
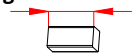
	Dimensions and **lengths**			
	Lgth. - a		**Lgth. - b**	
I1a and **I1b**	~900 mm	~ 2'-11 7/16"	~692 mm	~ 2'-3 1/4"
I4	~372 mm	~ 1'-2 5/8"	~568 mm	~ 1'-10 3/8"

BLACK Cube SERIES

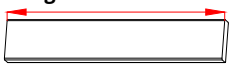
Detail list 3

Bench assembly

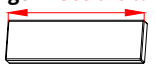
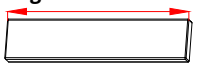
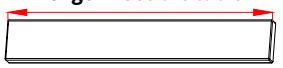
Bench assembly Square wood for Steam room:

Name in manual	K Square woods 45x45mm	Quantity
K122	***Length*** - *See the table* 	2
K60	***Length*** - *See the table* 	2
K55	***Length*** - *See the table* 	2
K40	***Length*** - *See the table* 	4
K30	***Length*** - *See the table* 	2
K10	***Length*** - *See the table* 	2

Bench assembly boards for Steam room:

Name in manual	Boards 88x28mm (Alder)	Quantity
L48	***Length*** - *See the table* 	1
L26	***Length*** - *See the table* 	2

Bench assembly cover boards for Steam room:

Name in manual	Cover boards 88x28mm (Alder)	Quantity
D1	***Length*** - *See the table* 	4
D2	***Length*** - *See the table* 	4
D3	***Length*** - *See the table* 	1

Dimensions and **lengths**		
K122	1220 mm	~ 4'-0 1/16"
K60	600 mm	~ 1'-11 5/8"
K55	550 mm	~ 1'-9 5/8"
K40	400 mm	~ 1'-3 3/4"
K30	300 mm	~ 0'-11 13/16"
K10	100 mm	~ 0'-3 15/16"

Profile - p2 for **K..**

Dimensions and **lengths**		
L48	480 mm	~ 1'-6 7/8"
L26	260 mm	~ 0'-10 1/4"
D1	300 mm	~ 0'-11 13/16"
D2	400 mm	~ 1'-3 3/4"
***D3**	584 mm	~ 1'-11"

Profile - p5 for **D..**
Profile - p5 for **L..**

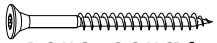
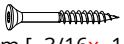
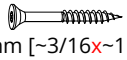
***There may be a slight difference in length, the measurement is not one-to-one.**

BLACK Cube SERIES

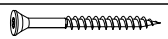
Detail list 4

Bench assembly

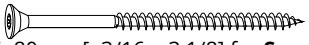
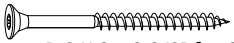
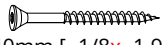
Fasteners for the main construction of the sauna:

Name in manual	Nails and screws / Screw size	Quantity
S7	 4,5x80mm [~3/16x~3 1/8] for **Spruce**  4,2x75mm [~3/16x~2 15/16] for **Thermo**	50
S6.1	 *(Black coated)* 4,5x70mm [~3/16x~2 3/4]	50
S5	 4,5x60mm [~3/16x~2 3/8] for **Spruce**  4,2x55mm [~3/16x~2 3/16] for **Thermo**	140
S1.1	 *(Black coated)* 3x30mm [~3/16x~1 15/16]	25
S1	 3x30mm [~3/16x~1 15/16]	15
R6	 **Nail** 2,5x20mm [~1/8x~1 1/4]	.5kg

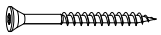
Fasteners for sauna door(s):

Name in manual	Nails and screws / Screw size	Quantity
S6.2	 4,2x75mm [~3/16x~2 15/16]	20
S3.2	 *(Nano black coating)* 4,5x50mm [~1/8x~1 9/16]	20
P	 Hole plug	15

Fasteners for the Bench assembl:

Name in manual	Nails and screws / Screw size	Quantity
S7	 4,5x80mm [~3/16x~3 1/8] for **Spruce**  4,2x75mm [~3/16x~2 15/16] for **Thermo**	60
S5	 4,5x60mm [~3/16x~2 3/8] for **Spruce**  4,2x55mm [~3/16x~2 3/16] for **Thermo**	50
S2	 3x40mm [~1/8x~1 9/16]	10
P	 Hole plug	10

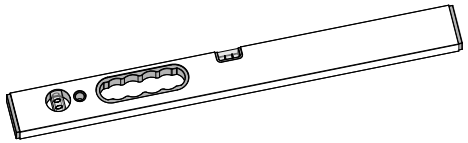
Fasteners for the Interior back wall:

Name in manual	Nails and screws / Screw size	Quantity
SI	 *(Black)* ~3,5x40mm [~1/8x~1 9/16]	70

BLACK Cube SERIES

Detail list 5

Tools needed for sauna construction:



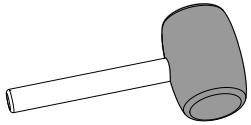
- Spirit level /
  Laser level (best option)



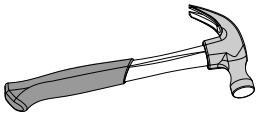
- Tape measure /
  folding rule



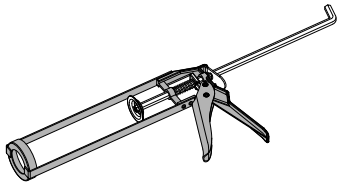
- Marking tool - pencil
  (do not use a marker pen)



- Rubber hammer



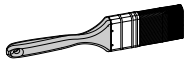
- Hammer



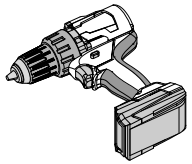
- Sealant gun



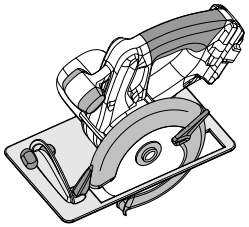
- Utility knife



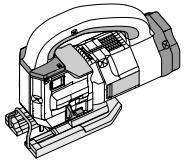
- Paintbrush



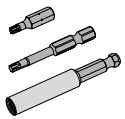
- Cordless drill(s)



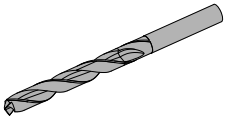
- Circular saw



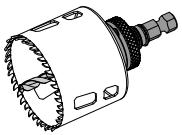
- Jigsaw / hand saw



- Screwdriver bits



- drill bits
  (different sizes)



- hole saw (different sizes)
  for cutting a hole for the drain pipe (only necessary if there is no hole in the s center board)!

Additional materials required, if not ordered or included:



- Wood glue /
  assembly adhesive

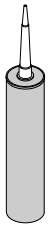


- Varnish
  (to protect wood from moisture and mold)





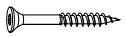
- Paint or wood oil
  for wood protection (external surfaces of sauna)



- Bitumen sealant

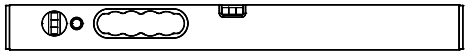
BLACK Cube SERIES

Tools and materials

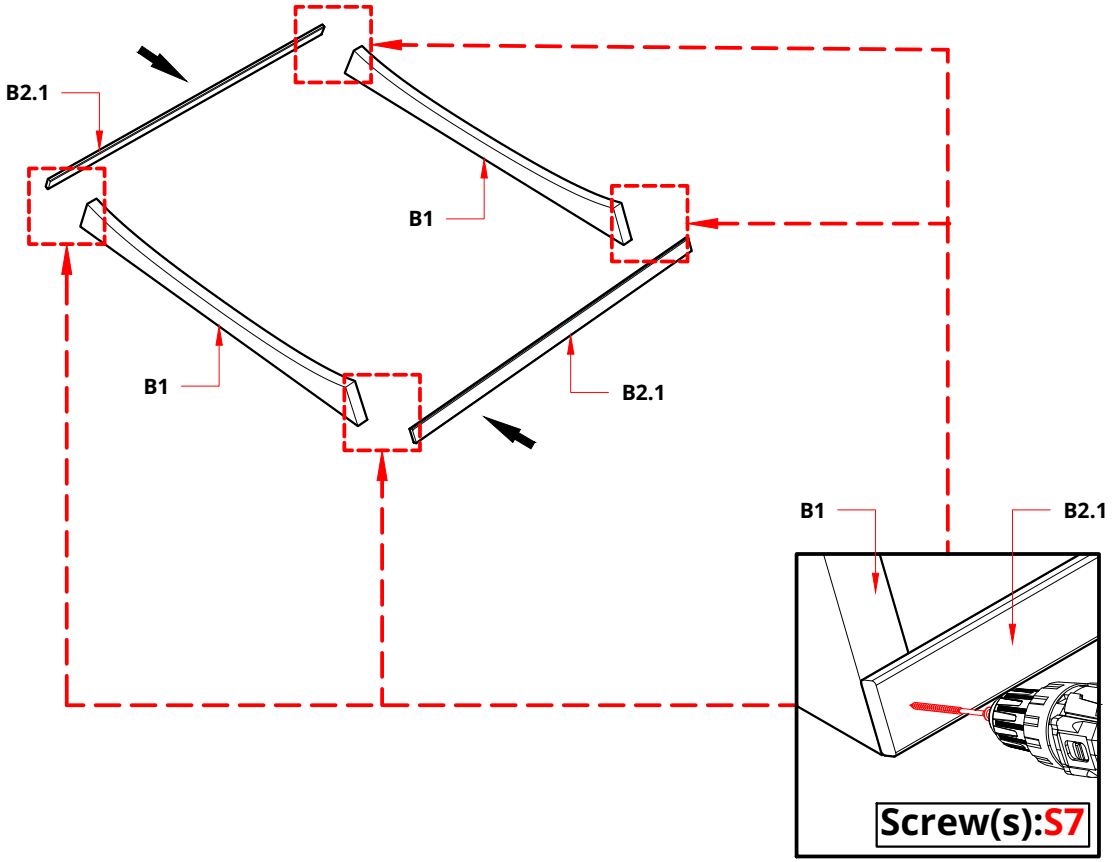
Screw(s)*	Name:	Quantity:
	S7	4

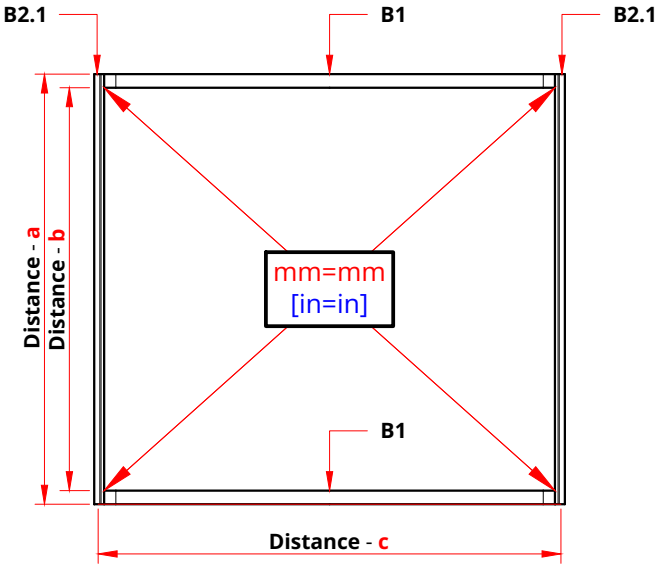
*Screw dimensions - exterior construction detail list

NB! use a level



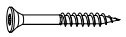
The base of the sauna must be level!





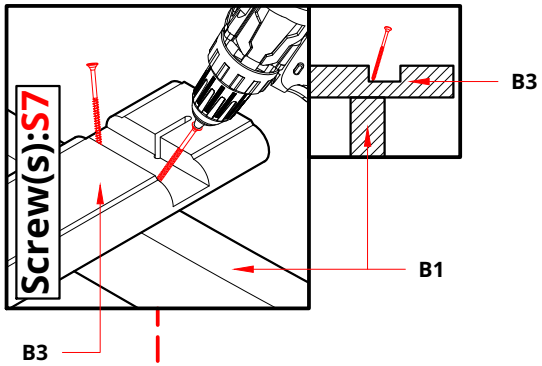
Dimensions and measurements		
Distance - a	1422 mm	~ 4'-8"
Distance - b	~1332 mm	~ 4'-4 7/16"
Distance - c	1530 mm	~ 5'-0 1/4"

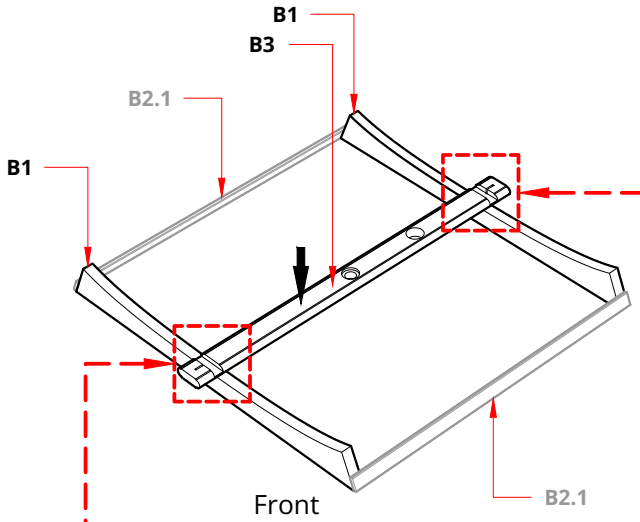
BLACK Cube SERIES

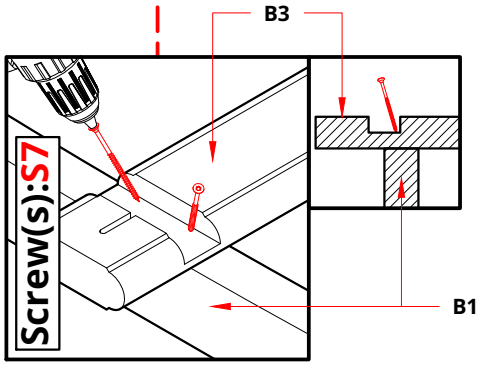
Screw(s)*	Name:	Quantity:
	S7	4

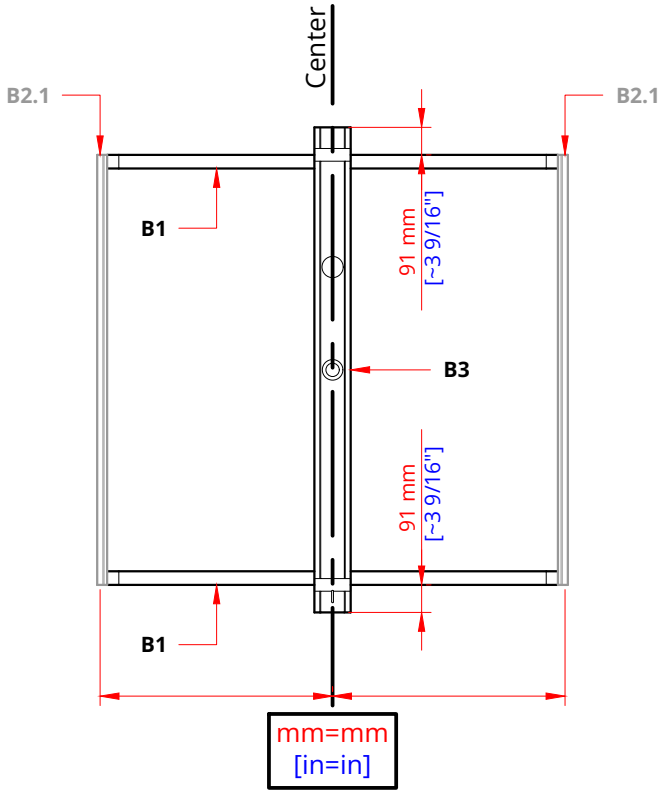
*Screw dimensions - exterior construction detail list

Please countersink the screw head(s)!









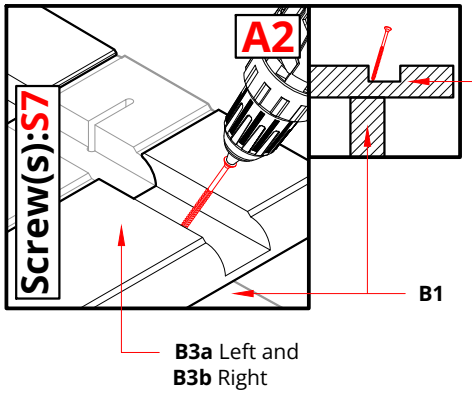
BLACK Cube SERIES

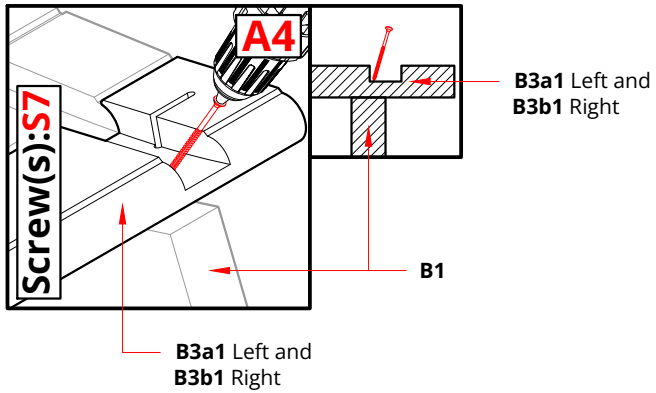
Screw(s)*	Name:	Quantity:
	S7	24

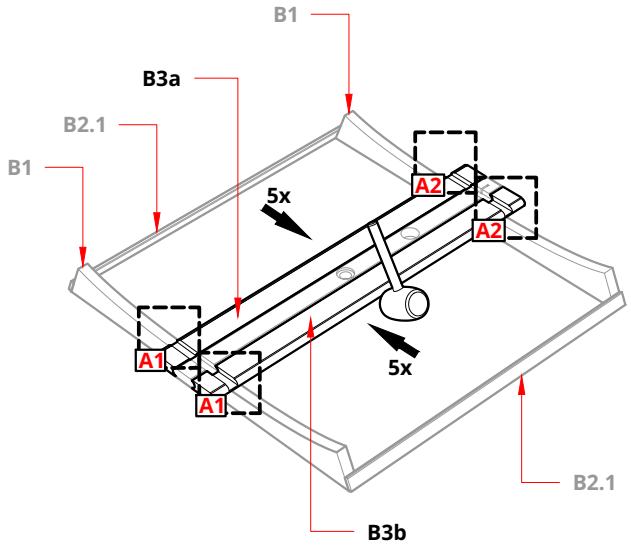
*Screw dimensions - exterior construction detail list

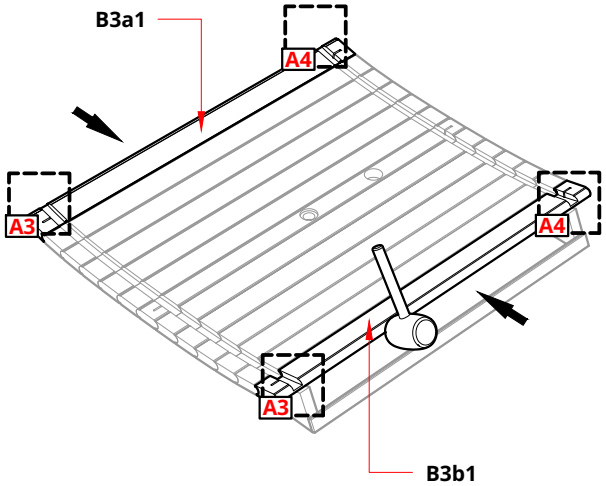
Please countersink the screw head(s)!

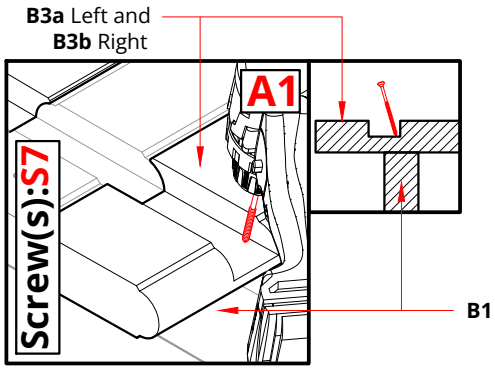
Use a rubber mallet to tap the board(s) together and fasten them with screws!

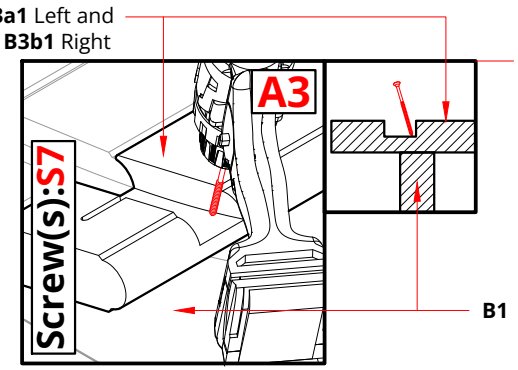












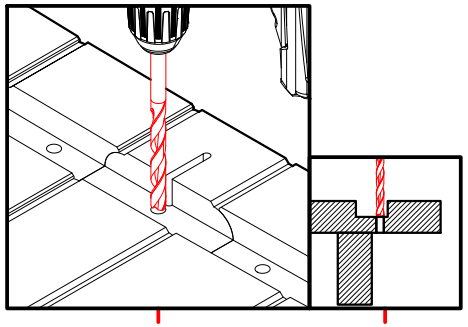
BLACK Cube SERIES

Cut a hole(s) for the drain pipe and/or ventilation hole ***(only necessary if there is no hole(s))!***

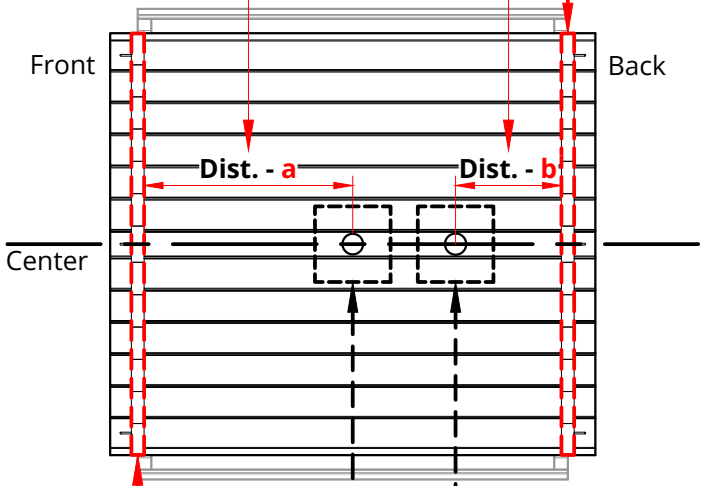
Drill **Ø10 - 12 mm [0'-0 3/8" - 0'-0 1/2"]** hole in each board groove!

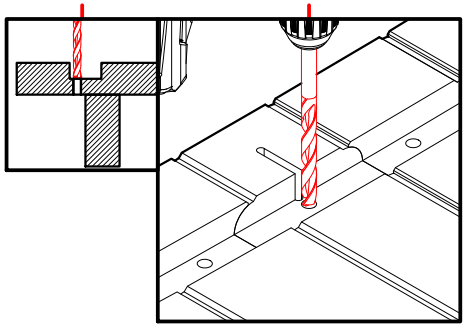
Dimensions and **measurements**		
Distance - a	690 mm	~ 2'-3 3/16"
Distance - b	350 mm	~ 1'-1 3/4"
A	~10 mm	~ 0'-0 3/8"
B	68 mm	~ 0'-2 11/16"
C	44 mm	~ 0'-1 3/4"
D*	70 mm	~ 0'-2 3/4"

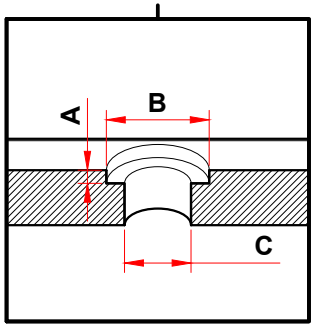
*can also be used Ø68 mm



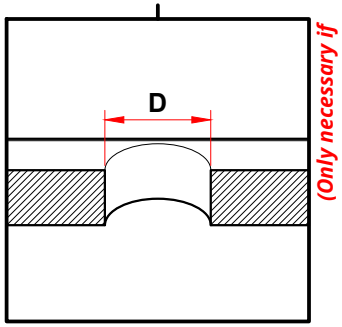
The measurement is from the inner edge of the groove.





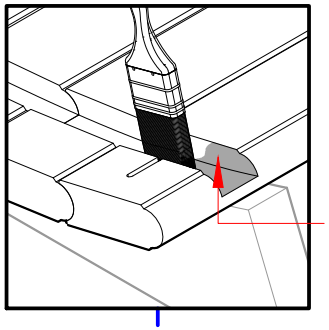


(Only necessary if there is no hole)!



(Only necessary if there is no hole)!

BLACK Cube SERIES



Add 2 coats of varnish*



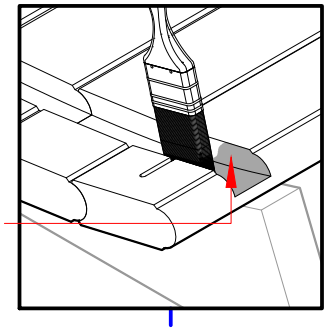
C1:Varnish (*INARIJÄRVI*)

Clean the groove and floor surfaces from wood waste and other dirt!
Cover the grooves and the floor surfaces (middle) with varnish!*
Use paint or wood oil at the front end and back end of the board(s)!*
**** Follow the manufacturer's instructions!***

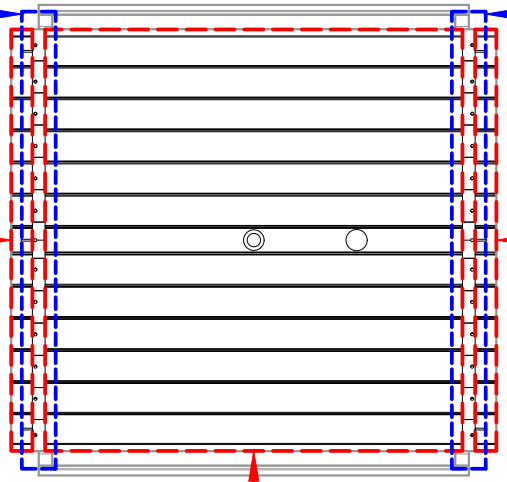
Add 2 coats of varnish*



C1:Varnish (*INARIJÄRVI*)

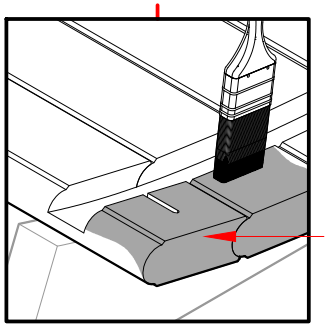


Front



Back

BLACK Cube SERIES



Add 1-2 coats of paint*
(First coats of paint **C3**, Second coat of paint **C4**)

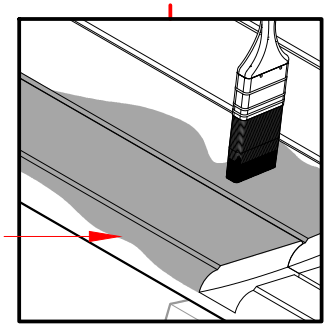


C3:Paint (Black) (*Teknos Aqua Primer*)
C4:Paint (Black) (*Teknos Visa Base 3*)

Add a layer of varnish*



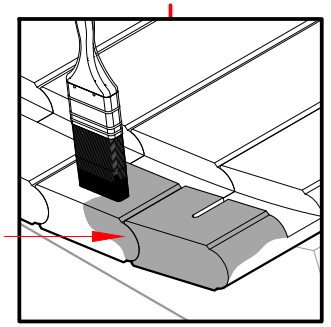
C2:Varnish (*HELO AQUA 40*)



Add 1-2 coats of paint*
(First coats of paint **C3**, Second coat of paint **C4**)



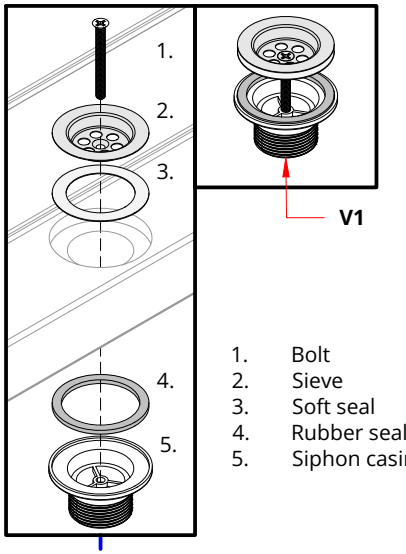
C3:Paint (Black) (*Teknos Aqua Primer*)
C4:Paint (Black) (*Teknos Visa Base 3*)



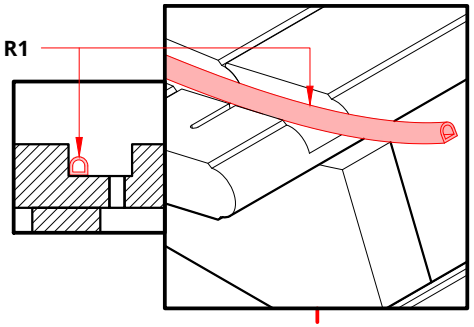
Screw(s)*	Name:	Quantity:
	S7	2
	S1.1	3

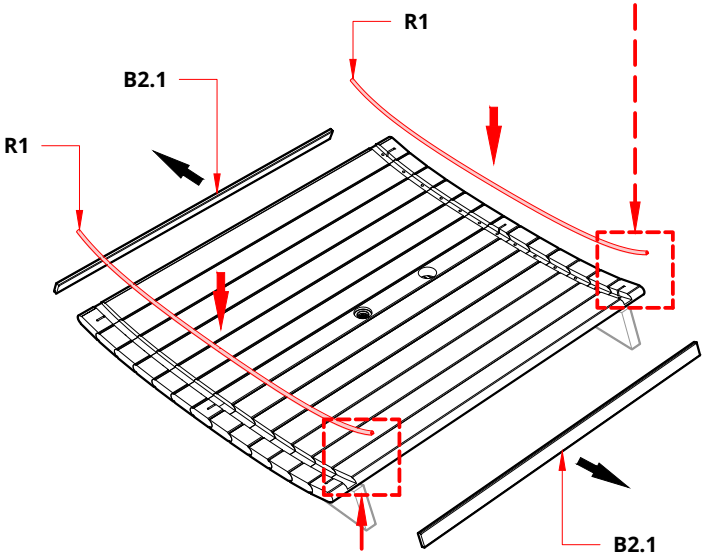
*Screw dimensions - exterior construction detail list

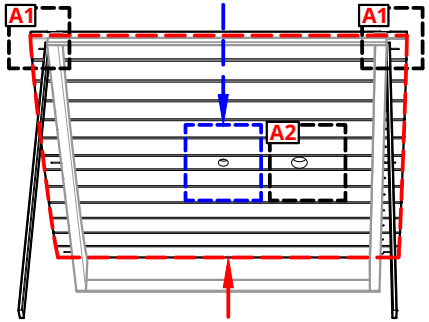
Lift the bottom of the sauna up on one side and install some aids!
Clean the bottom surface!
Cover the surface with paint or wood oil!**
Install a piece of drain pipe V1!
Install outer ventilation grilles V2!
Install the rubber seal R1!
Remove boards B2.1!
**** Follow the manufacturer's instructions!***

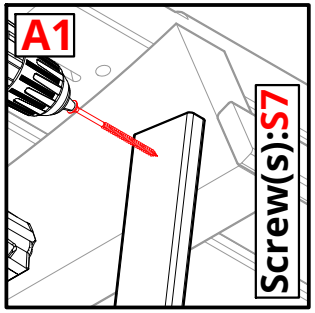


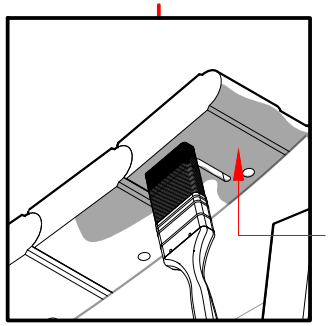
1. Bolt
2. Sieve
3. Soft seal
4. Rubber seal
5. Siphon casing







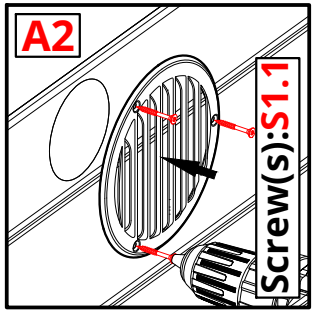


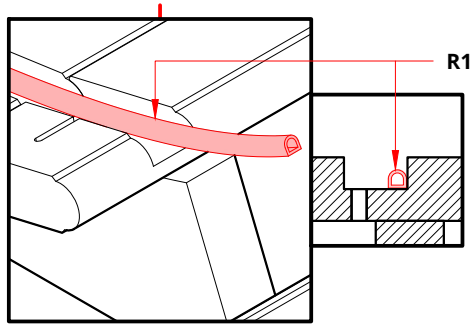




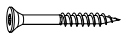
Add 1-2 coats of paint**
(First coats of paint **C3**, Second coat of paint **C4**)

C3:Paint (Black) *(Teknos Aqua Primer)*
C4:Paint (Black) *(Teknos Visa Base 3)*



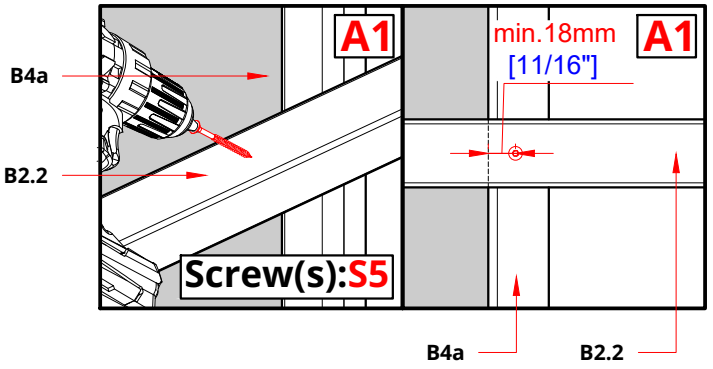


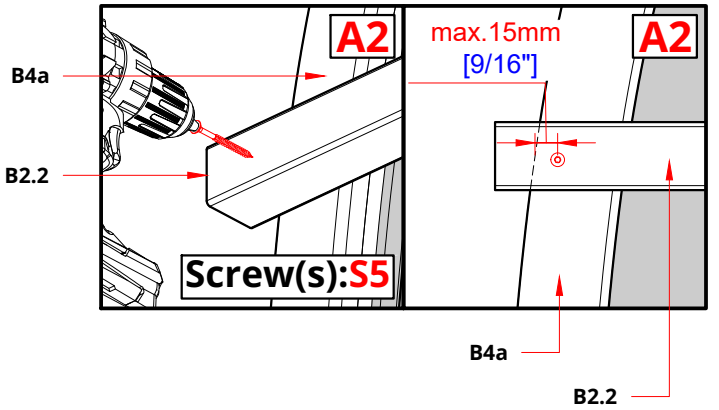
BLACK Cube SERIES

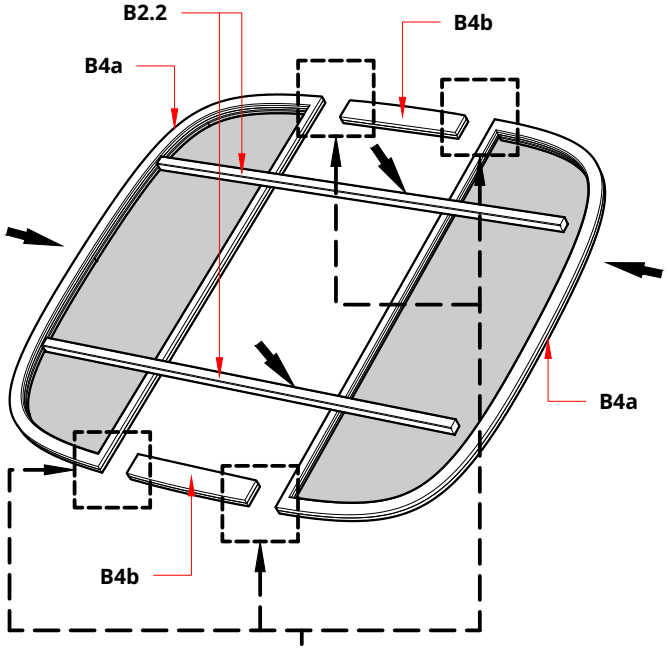
Screw(s)*	Name:	Quantity:
	S5	12

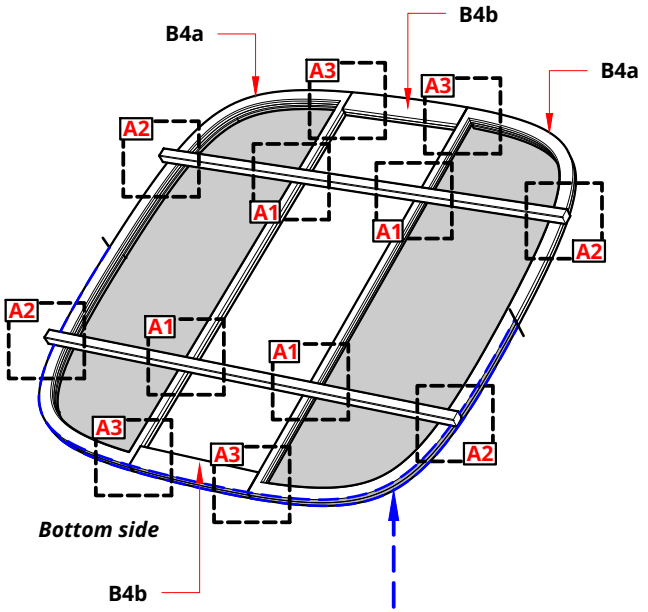
*Screw dimensions - exterior construction detail list

Please countersink the screw head(s)!
Assemble and prepare of the front wall!
Remove the door moldings (B7a)!
Use glue between the B4a and B4b!
Fasten the parts with screws and jigs!
Let the glue dry!
Clean the edge of the wall from wood waste and other dirt!
Varnish the edge of the wall from the bottom to middle!**
***** Follow the manufacturer's instructions!***

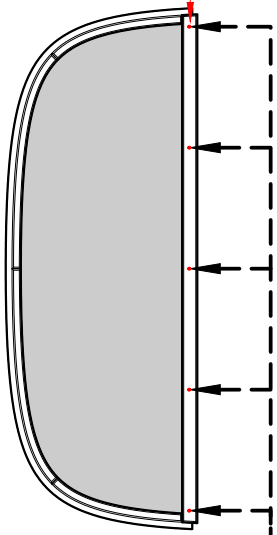




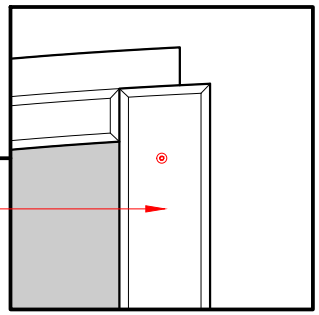


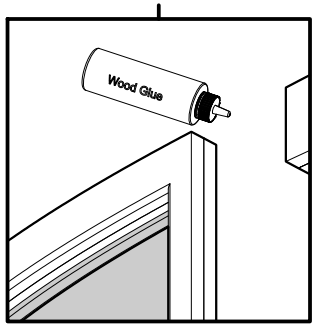


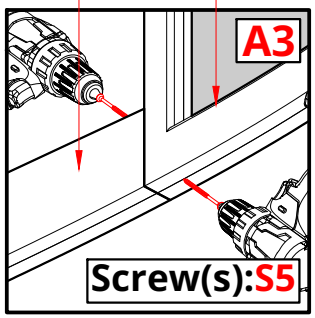
Remove the door molding (B7a) from both B4a.
Fixed with 5 screws.

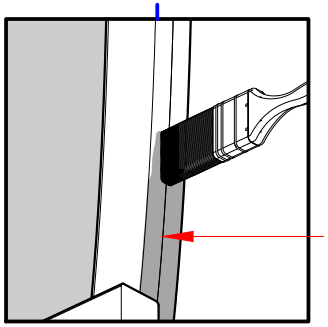


Remove the door molding (B7a) from both B4a
Fixed with 5 screws









Add 2 coats of varnish**



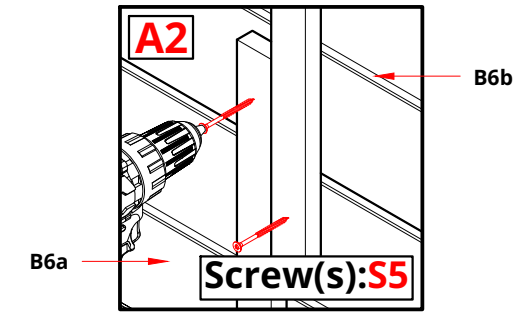
C1:Varnish *(INARIJÄRVI)*

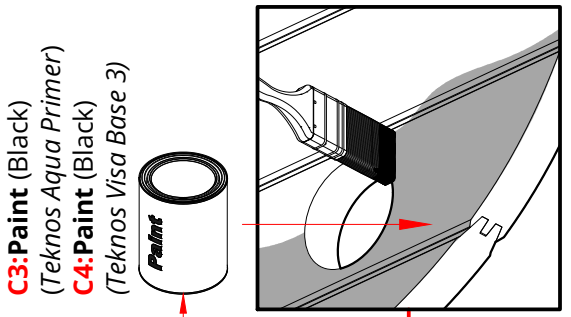
BLACK Cube SERIES

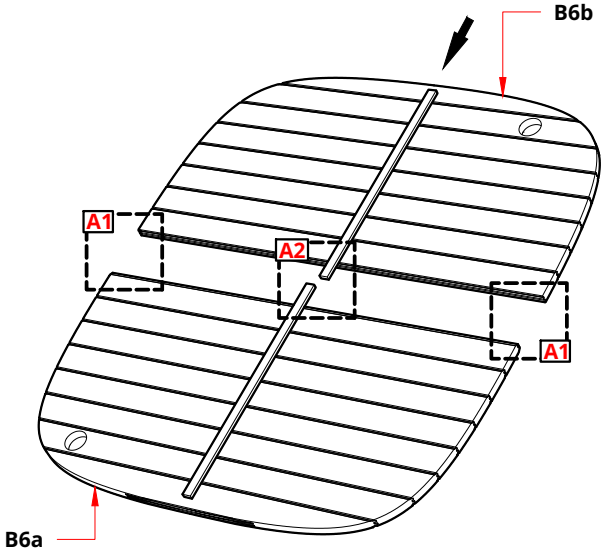
Screw(s)*	Name:	Quantity:
	S7	2
	S5	2

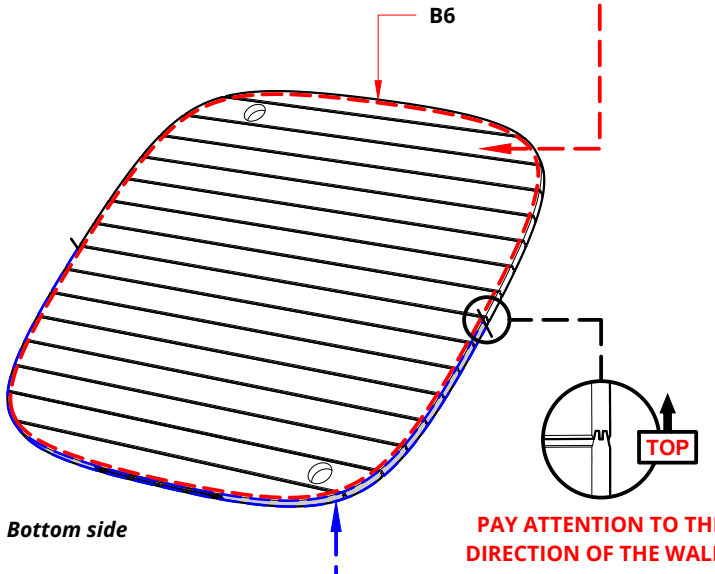
*Screw dimensions - exterior construction detail list

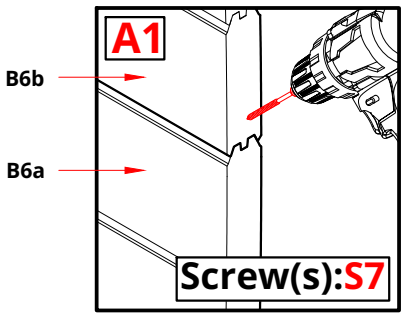
Please countersink the screw head(s)!
Assemble and prepare of the back wall!
Fasten the parts with screws and jigs!
Clean the edge and the outer surface of the back wall from wood waste and other dirt!
Varnish the edge of the wall from the bottom to middle!**
Cover the wall outer surface with paint!**
*** Follow the manufacturer's instructions!***

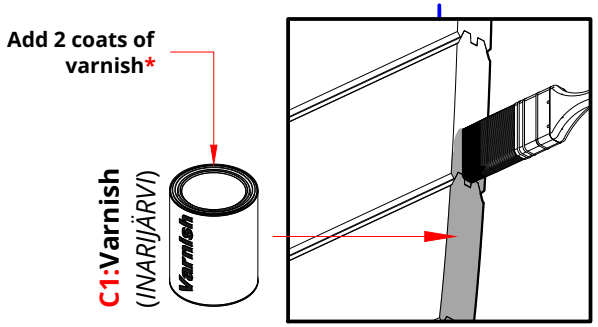




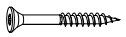








BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	SI	~40

*Screw dimensions - exterior construction detail list

Installation of the Interior back wall!

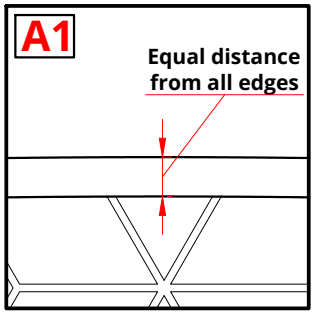
Remove the back wall connection strip(s) from back wall!

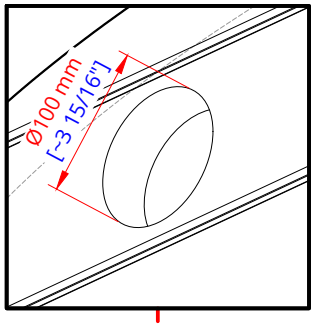
Place the interior back wall in the middle of the wall, with equal distances from the edges!

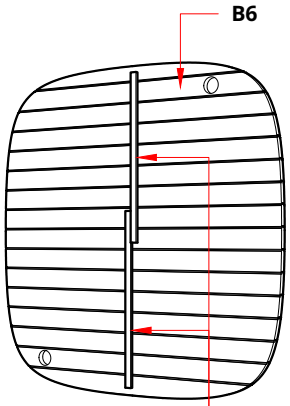
Screw the Interior back wall to the wall!*

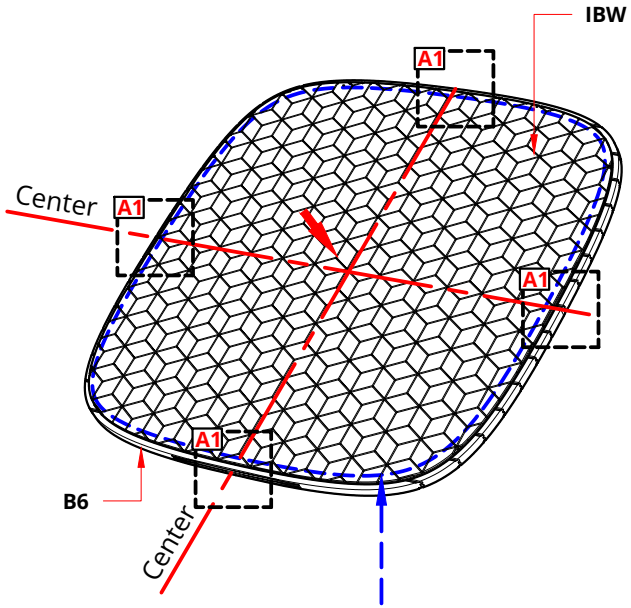
Cut ventilation holes!

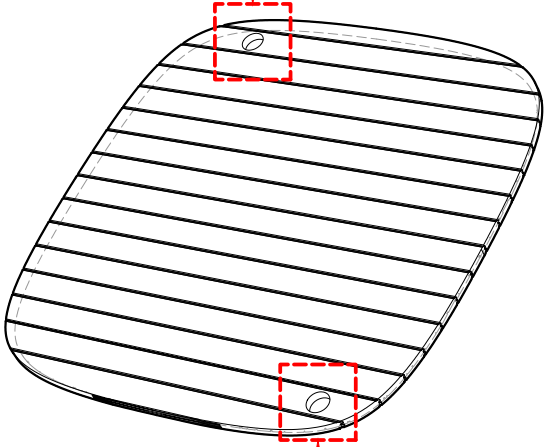
**** (The screw holes are distributed across the entire inner back wall)***

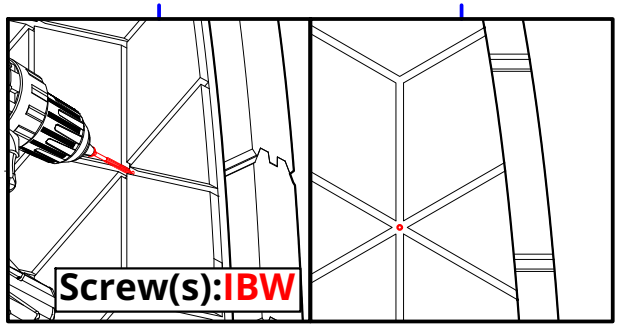


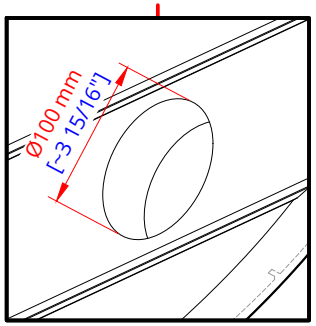












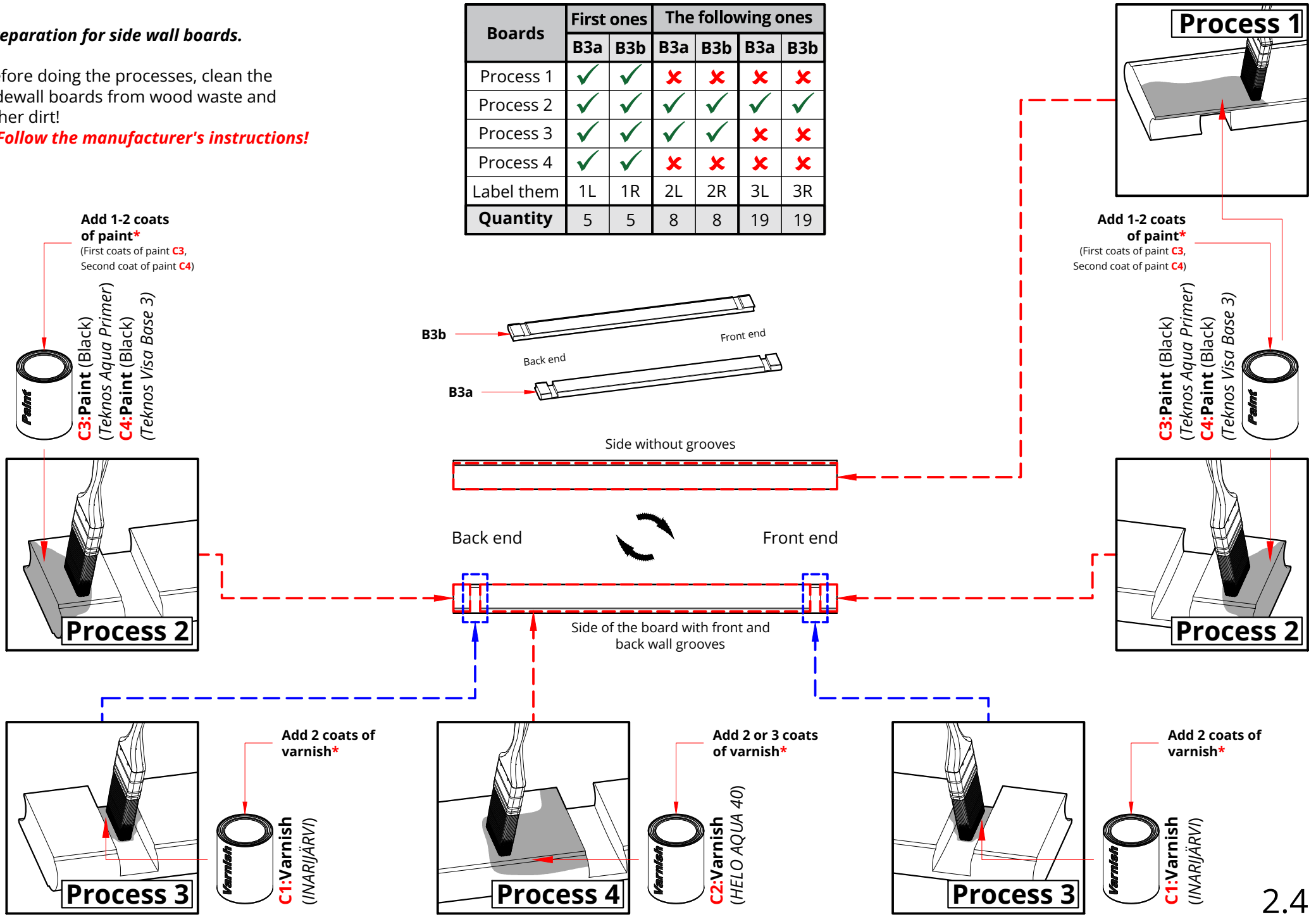
BLACK Cube SERIES

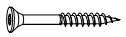
Preparation for side wall boards.

Before doing the processes, clean the sidewall boards from wood waste and other dirt!

**** Follow the manufacturer's instructions!***

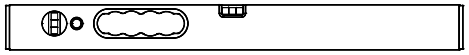
Boards	First ones		The following ones			
	B3a	B3b	B3a	B3b	B3a	B3b
Process 1	✓	✓	✗	✗	✗	✗
Process 2	✓	✓	✓	✓	✓	✓
Process 3	✓	✓	✓	✓	✗	✗
Process 4	✓	✓	✗	✗	✗	✗
Label them	1L	1R	2L	2R	3L	3R
Quantity	5	5	8	8	19	19



Screw(s)*	Name:	Quantity:
	S5	8

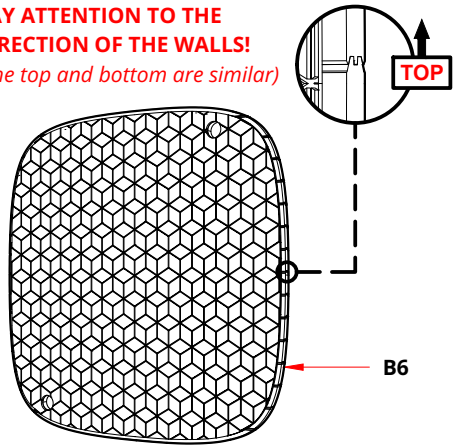
*Screw dimensions - exterior construction detail list

NB! use a level

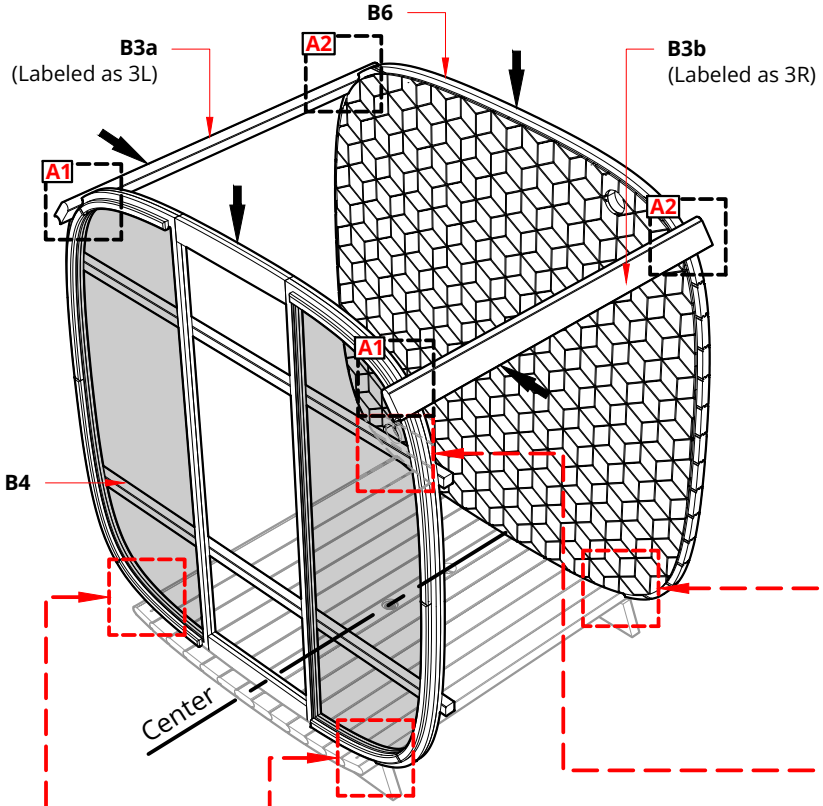


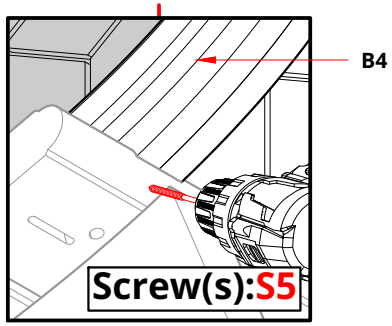
Please countersink the screw head(s)!
Make sure that the walls are **centered** in relation to the **bottom**!
Install safety boards on walls, use boards B3a and B3b, that are labeled as 3L and 3R!
Remove the back wall connection strip(s)!

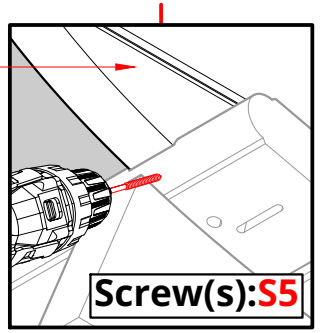
PAY ATTENTION TO THE DIRECTION OF THE WALLS!
(The top and bottom are similar)

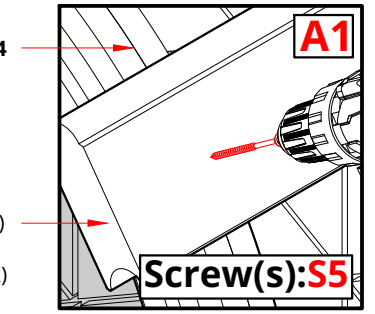


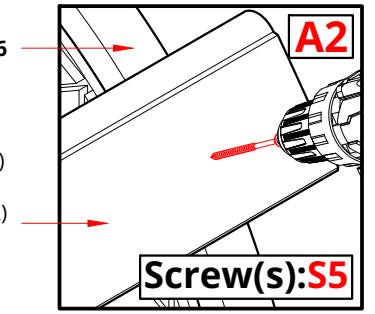
Wooden back wall



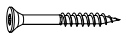






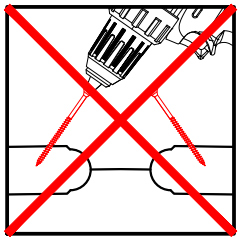


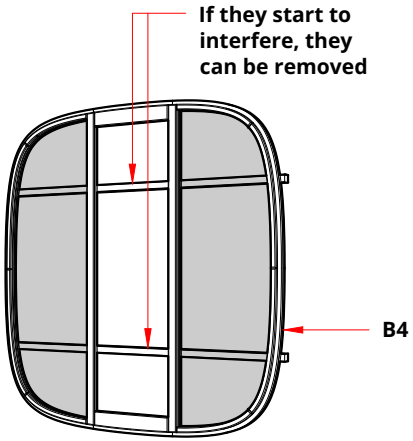
BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	S5	104

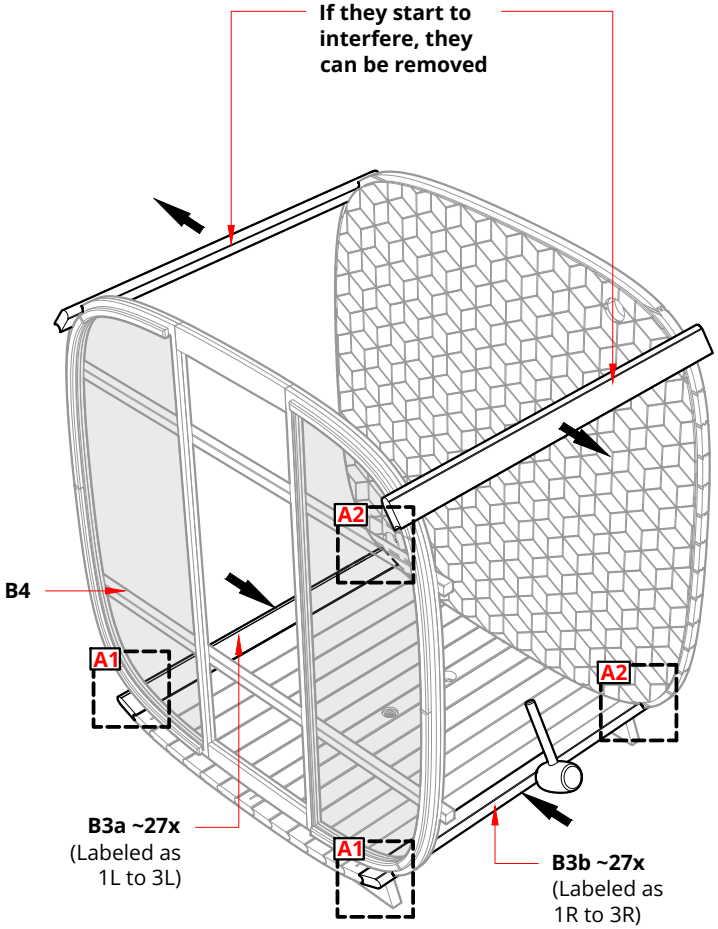
*Screw dimensions - exterior construction detail list

Please countersink the screw head(s)!
Use a rubber mallet to tap the boards into place!
Please do not screw the screws in on the last whole boards immediately!



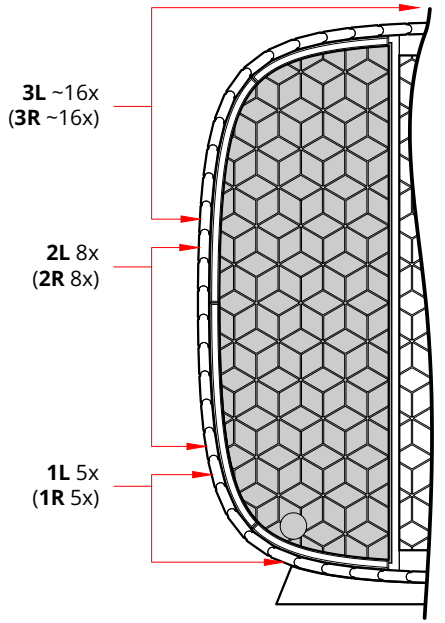


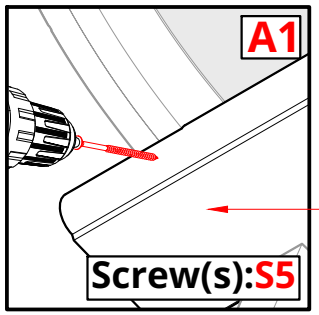
Glass front wall



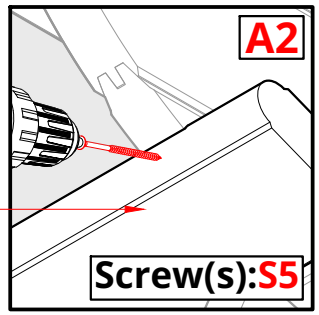
B3a *left and* ***B3b*** *right*

layout of labeled boards





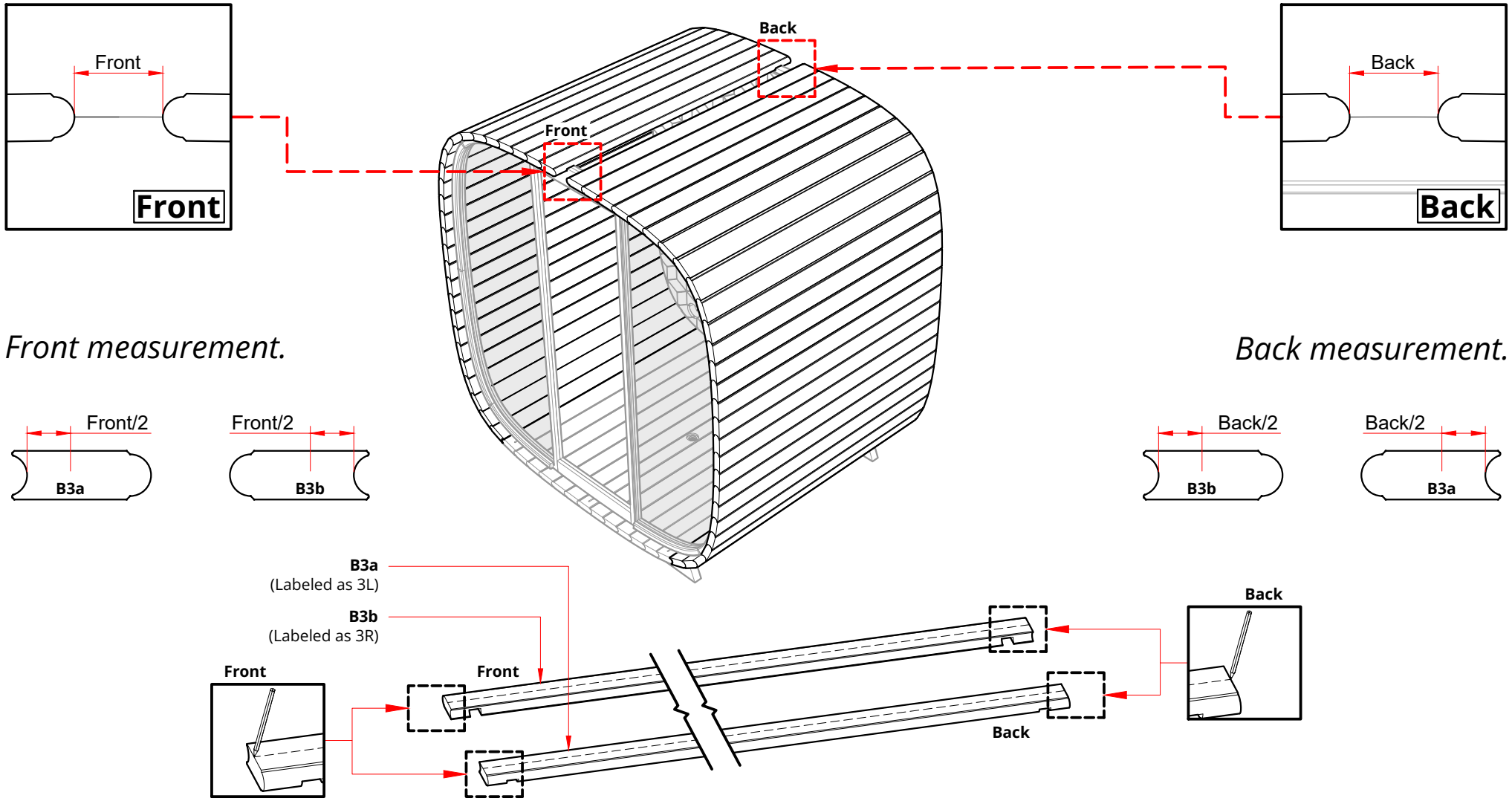
B3a left
(Labeled as 1L to 3L)
B3b right
(Labeled as 1R to 3R)



BLACK Cube SERIES

Measure the gap front and back,
the dimensions can be different!

Divide the measurement by two and transfer the measurements to the last two boards. Connect the dimensions on the board with a line.



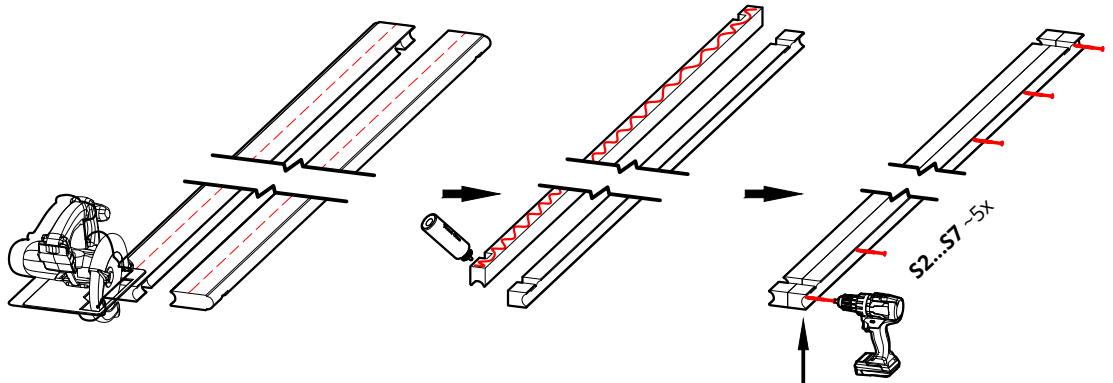
BLACK Cube SERIES

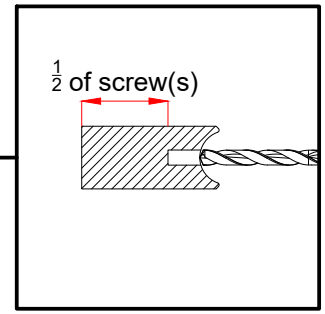
Screw(s)*	Name:	Quantity:
	S2...S7	5
	S5	6

*Screw dimensions - exterior construction detail list

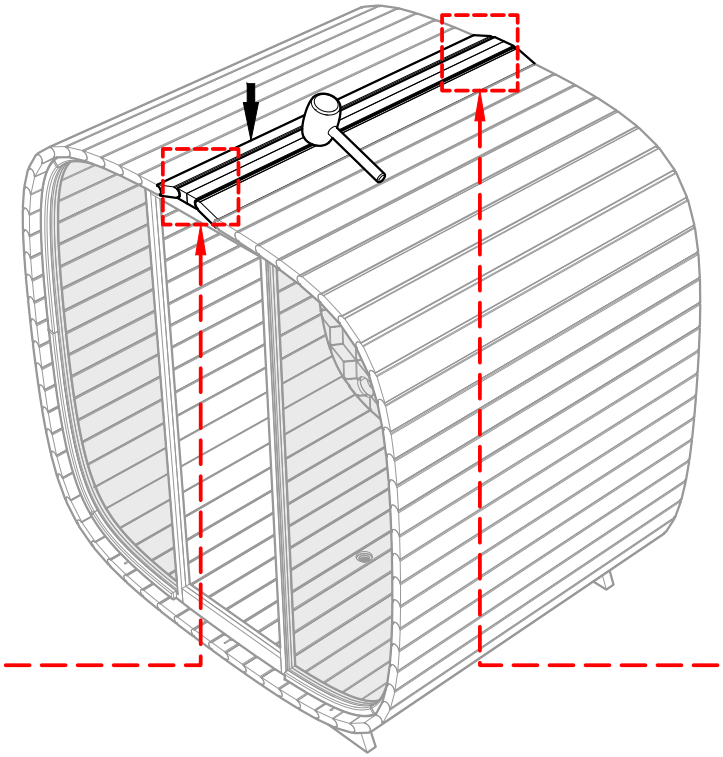
Please countersink the screw head(s)!
Prepare the last board!
Use a rubber mallet to tap the boards in to the cap!

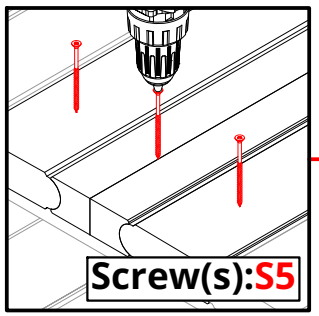
Cut along the marked line to cut off these ends. Glue the two cut boards with wood glue and connect them with 5 pieces of **S2...S7** screws ***(the length of the screws depends on the final width of the last two planks cut)***. Wipe off excess glue with a cloth and then use sandpaper to smooth out the gap.

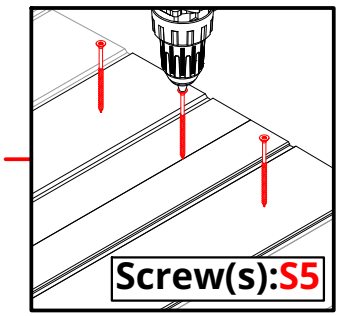




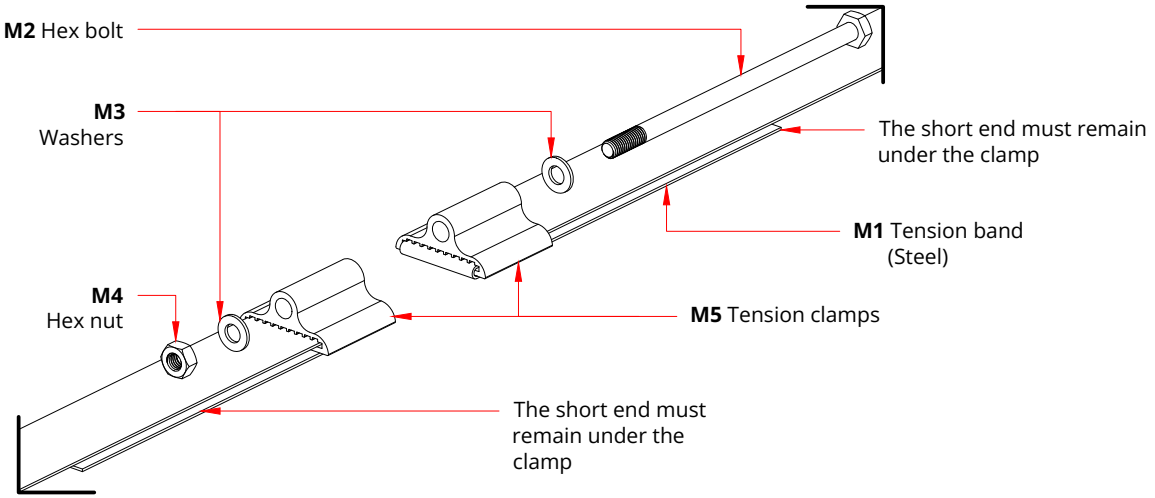
Suggestions!
Drill pockets for screws if the screws do not extend through







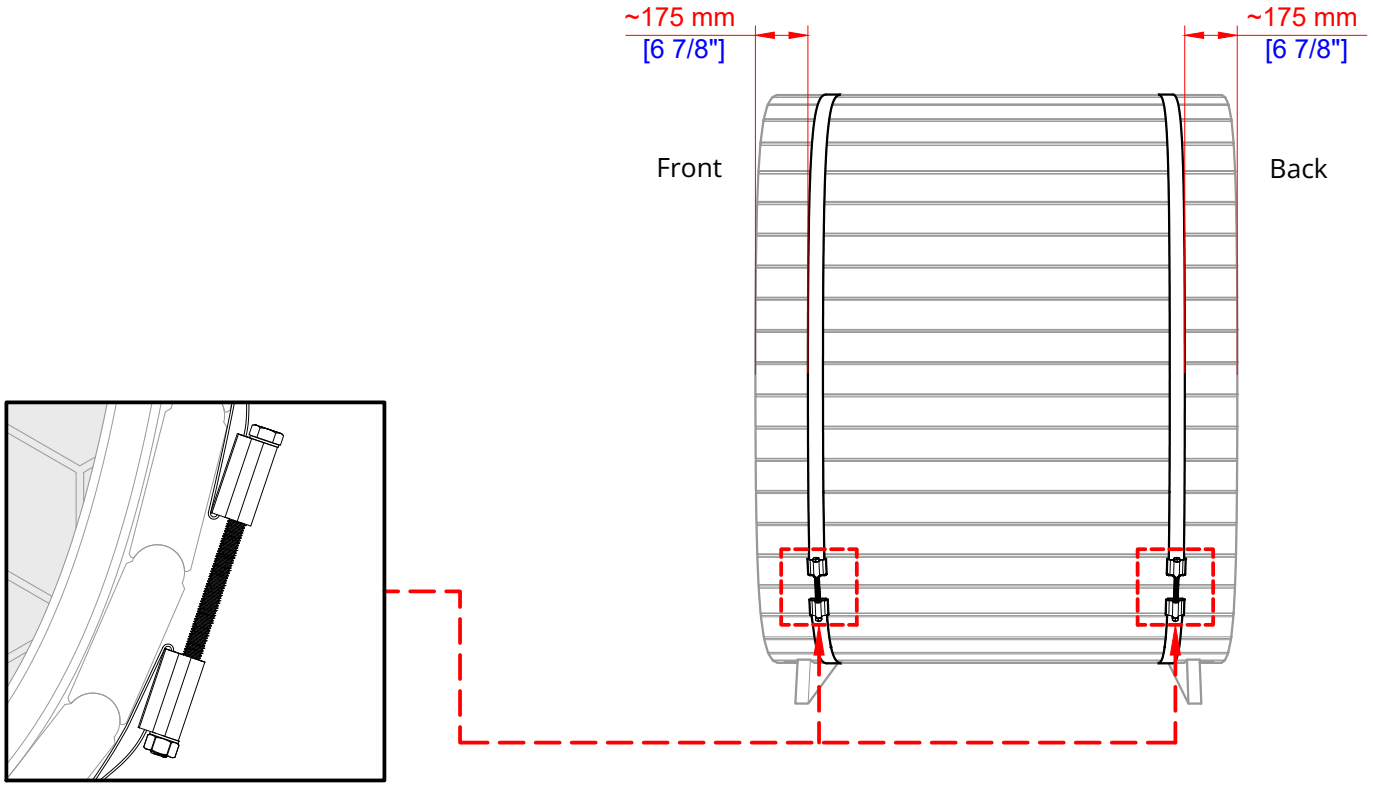
BLACK Cube SERIES

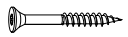


Place the tension bands M1 (Steel band(s)) around the side walls and thread the band(s) into the eyelet as follows (see sketch above).

Hex nuts and bolts must be tightened as long as the boards are stationary in all directions.

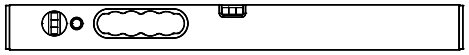
The tension band and clamps must be placed as shown in the picture below.



Screw(s)*	Name:	Quantity:
	S1.1	10

*Screw dimensions - exterior construction detail list

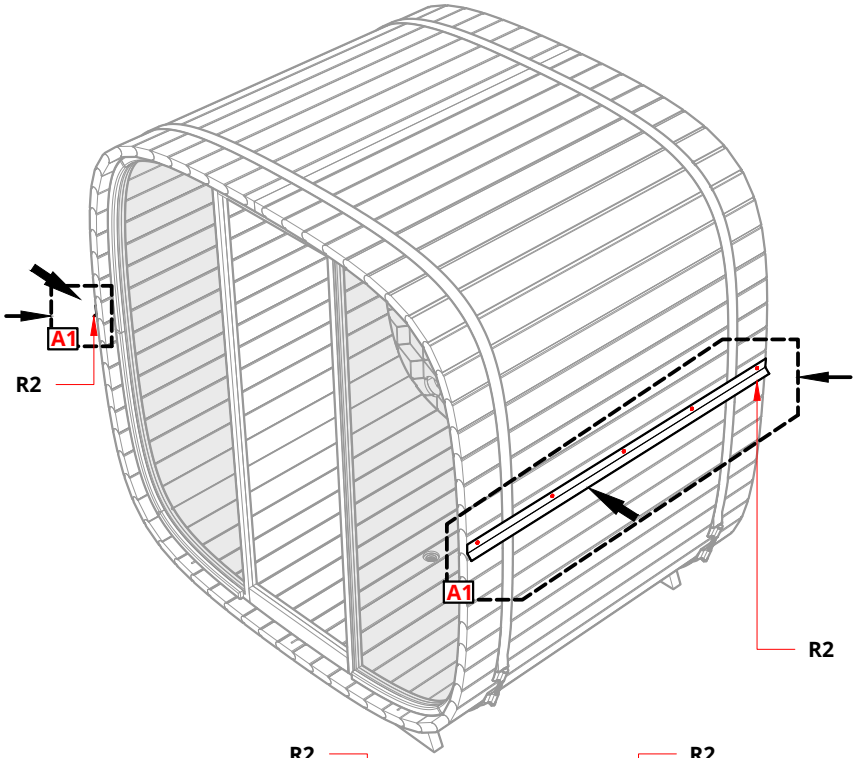
NB! use a level

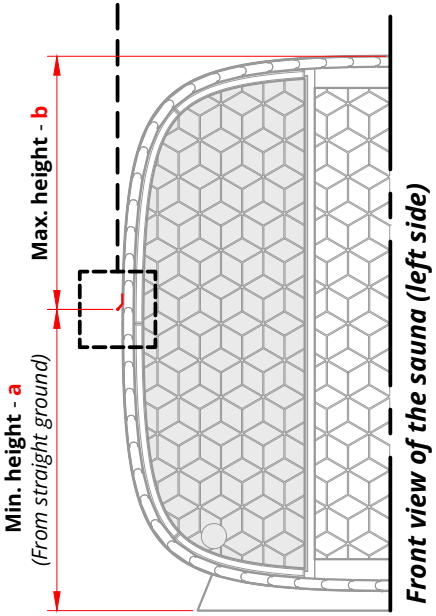


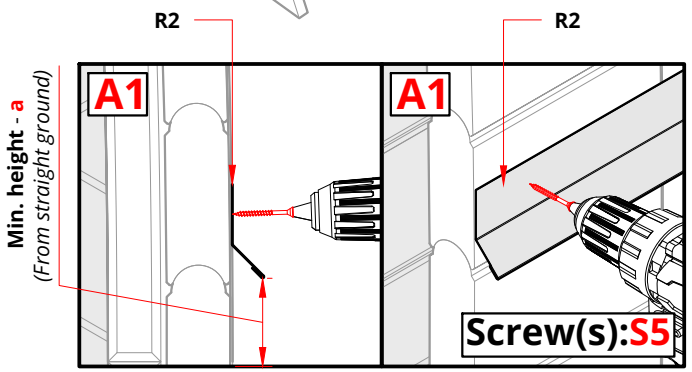
Dimensions and measurements		
Min. height - a	~1195 mm	~ 3'-11 1/16"
Max. height - b	~1005 mm	~ 3'-3 9/16"

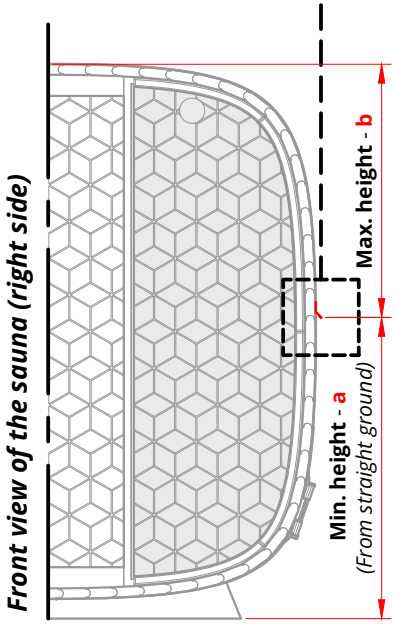
Please countersink the screw head(s)!
Height measurements are measured from a straight surface (ground) or from above the sauna!

Install the eaves edge (tin strip) on the left and right!









BLACK Cube SERIES

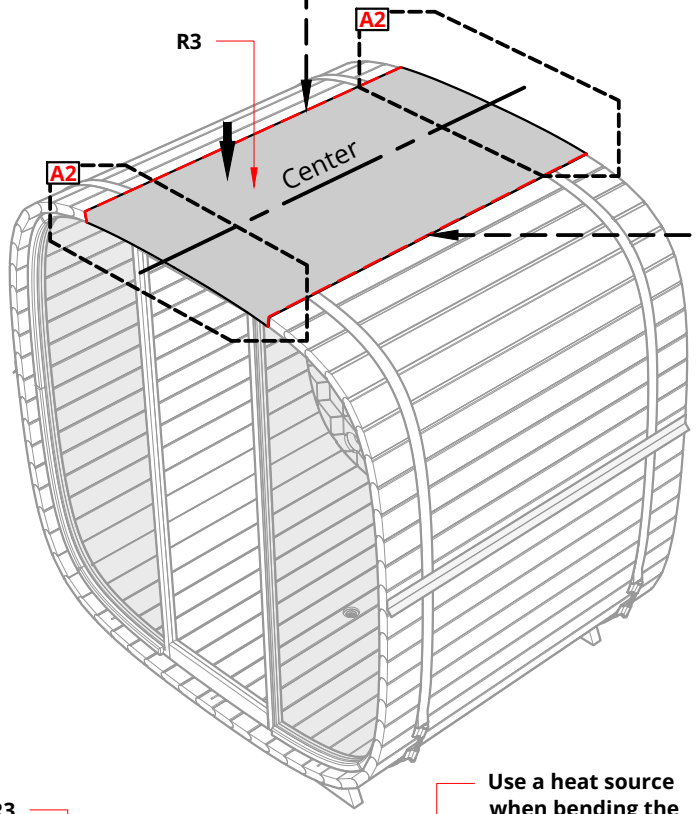
Nail(s)*	Name:	Quantity:
	R6	~35

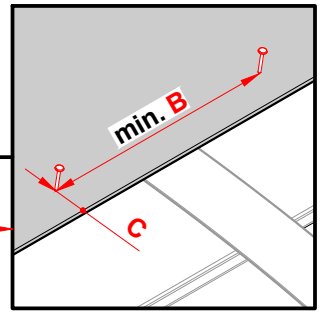
*Nail dimensions - exterior construction detail list

Use a heat source when bending the underlay!

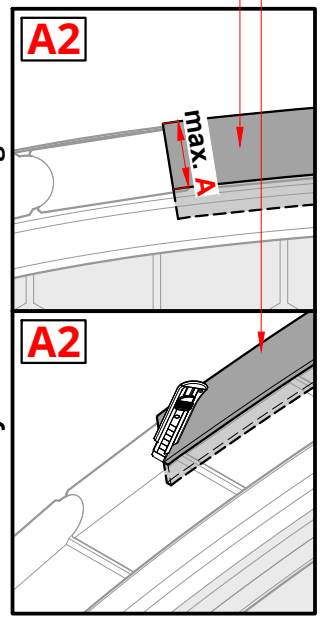
Install the underlay in the center of the roof!
The underlay must **extend over the front end and back end**!
Fasten the underlay **along the long edges**!
Use a heat source when bending the underlay front end and back end!
Fasten the underlay **front end and back end**!
Cut off the ends that extend over the edge!

Dimensions and **measurements**		
max. A	35 mm	~ 0'-1 3/8"
min. B	190 mm	~ 0'-7 1/2"
C	25 mm	~ 0'-1"

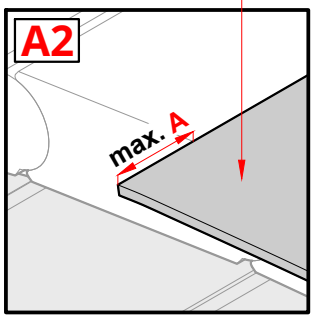


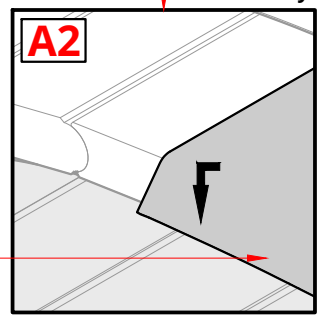


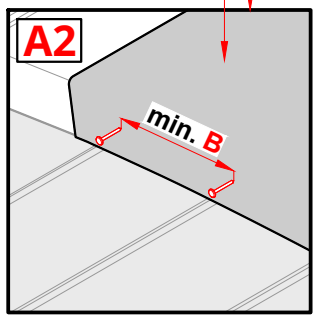
About 9 nails along the edge of R3



It is only necessary to cut if they extend over the edge!





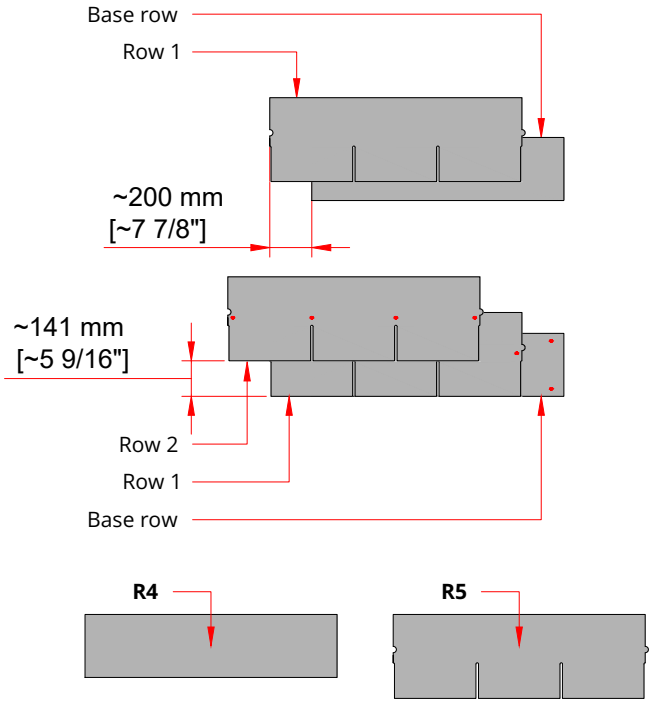


BLACK Cube SERIES

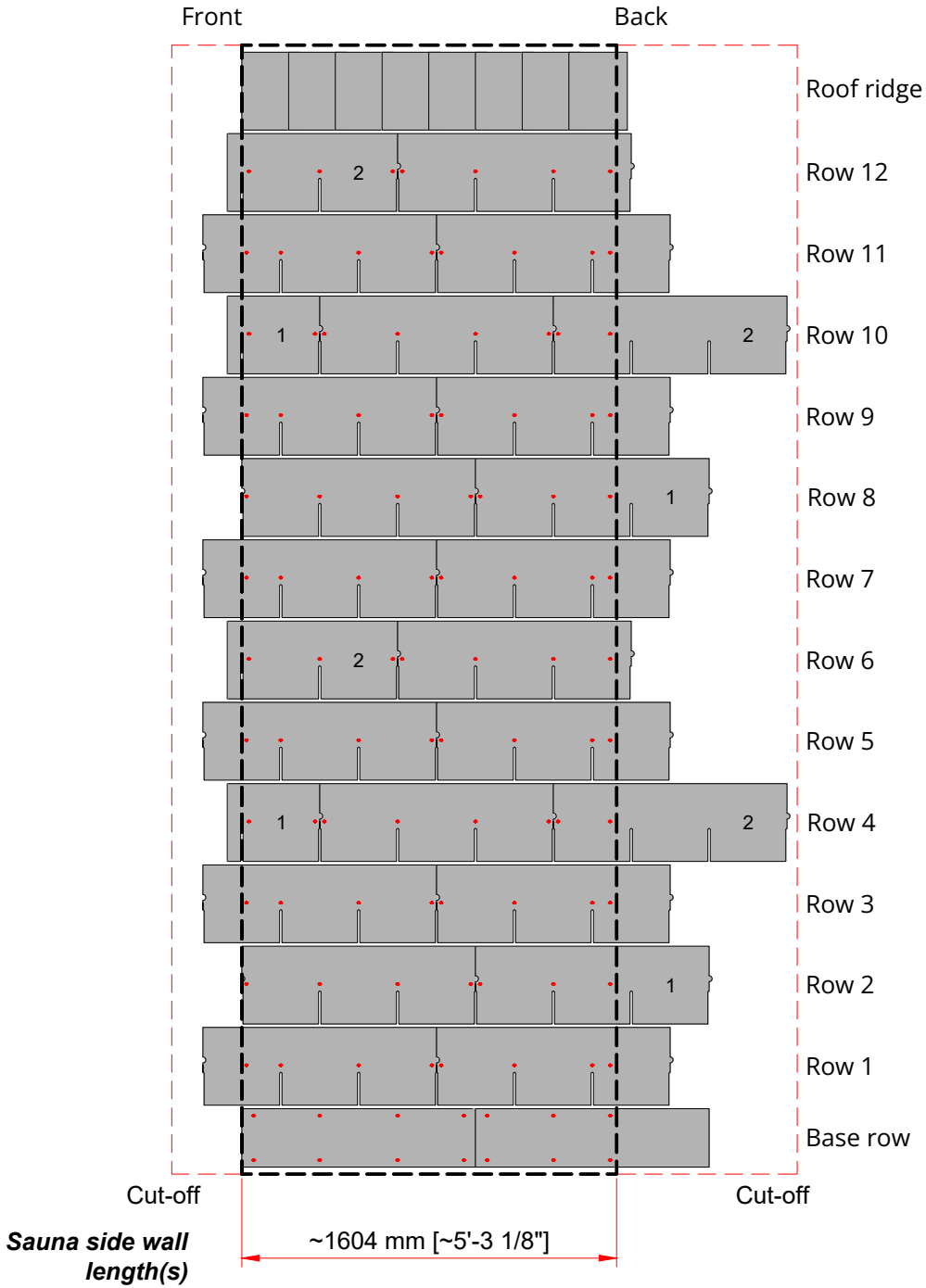
Katepal 3T Rectangle bitumen roof sheet row arrangement for Barrel Saunas.

The base row is installed first, then the first row, etc. up in the middle of the sauna. The sheets that remain over the edge of the sauna wall are cut off and, if possible, used for other rows.

The base row starts at the front end of the sauna, row 1 always starts offset from the front end.



BLACK Cube Premium	Qty. R4	6 pcs
	Qty. R5	44 pcs

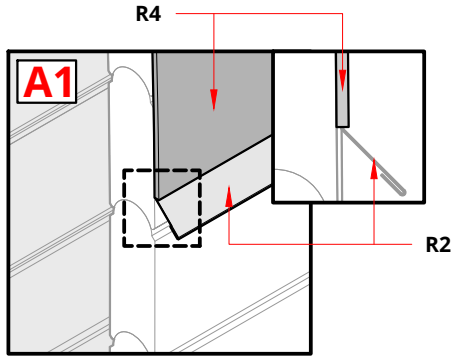


Nail(s)*	Name:	Quantity:
	R6	~30

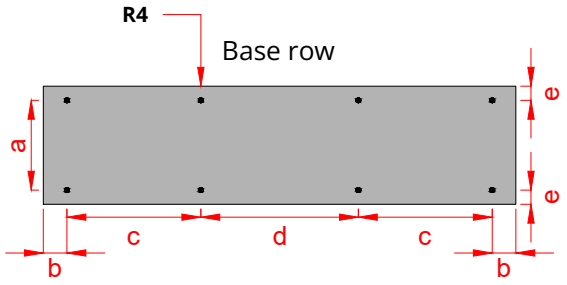
*Nail dimensions - exterior construction detail list

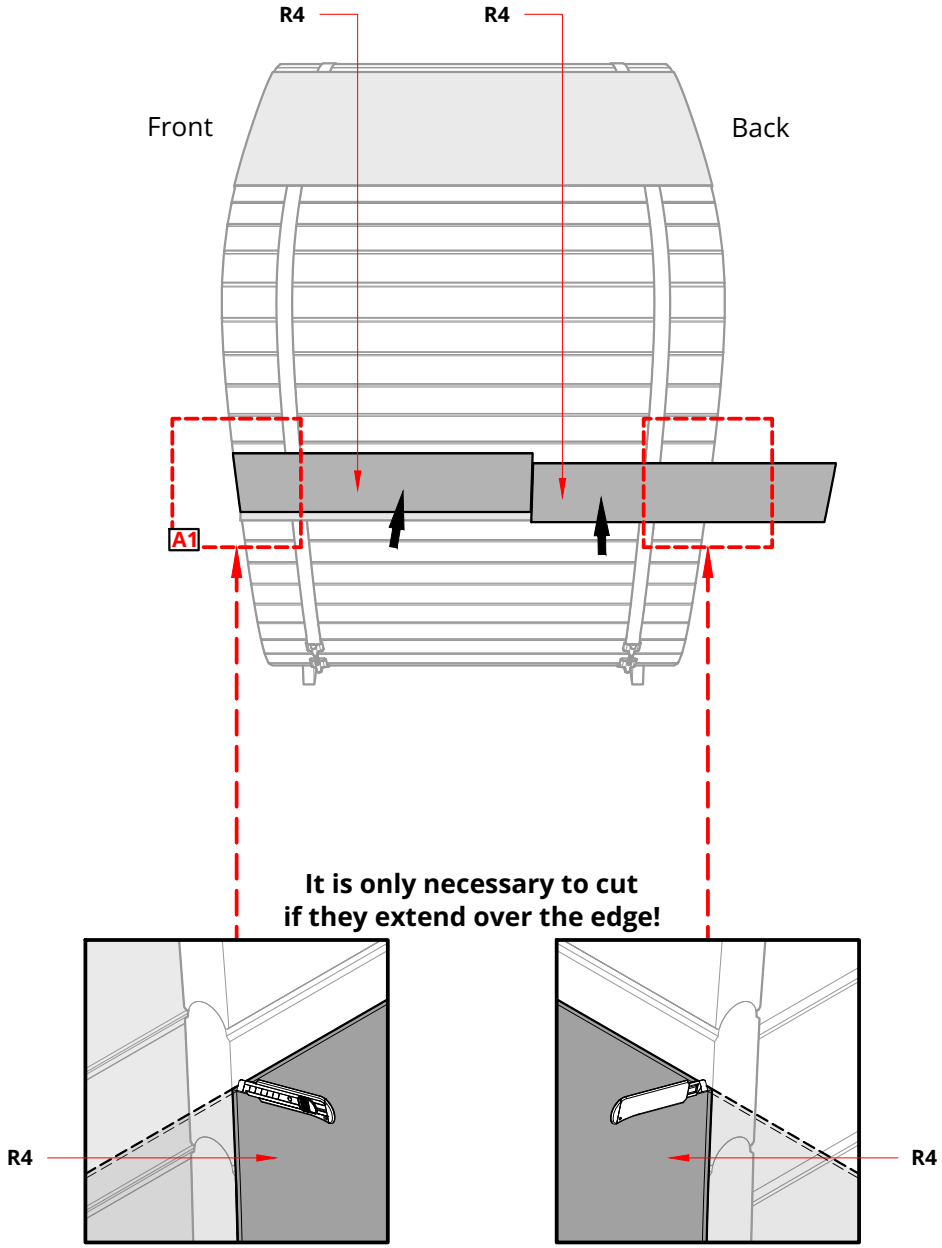
Sheets are self-adhesive, for better adhesion use a heat source!

The base row starts from the front!
Cut sheets that extend over the edge! ***(It is only necessary to cut if they extend over the edge!)***
Suitable leftovers can be used!
Repeat these steps on the other side as well!



Dimensions and measurements		
a	190 mm	~ 0'-7 1/2"
b	50 mm	~ 0'-1 15/16"
c	~283 mm	~ 0'-11 1/8"
d	~333 mm	~ 1'-1 1/8"
e	30 mm	~ 0'-1 3/16"





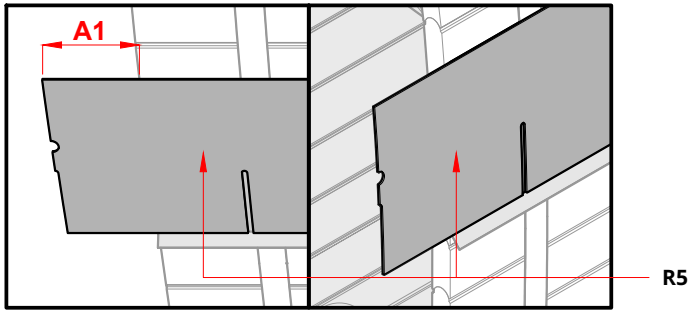
BLACK Cube SERIES

Nail(s)*	Name:	Quantity:
	R6	~190

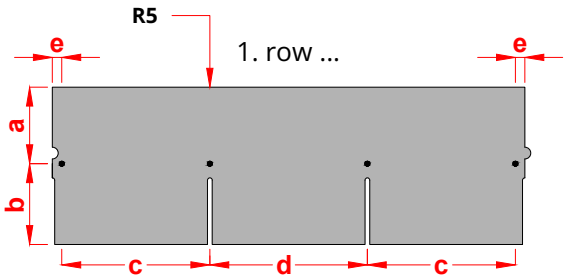
*Nail dimensions - exterior construction detail list

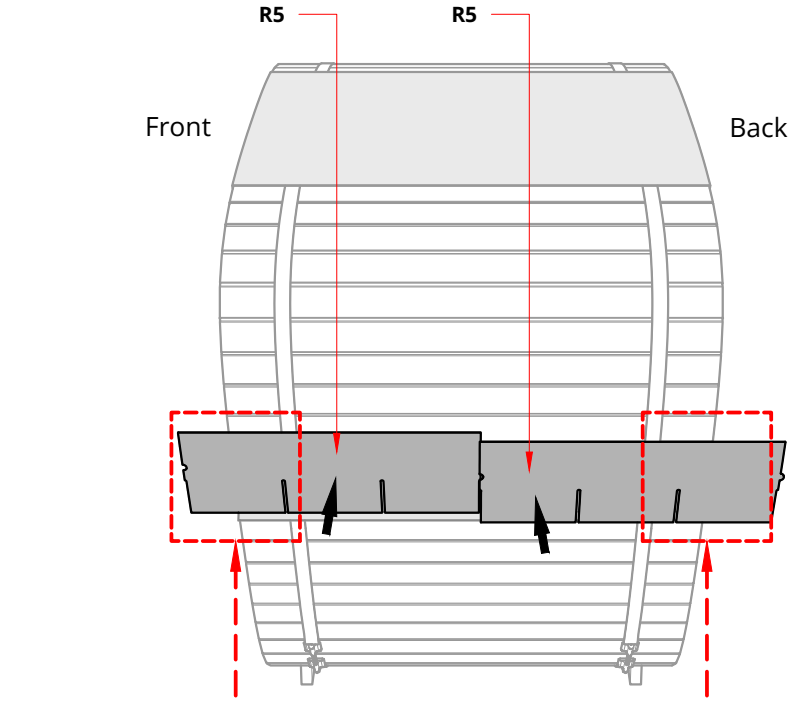
Sheets are self-adhesive, for better adhesion use a heat source!

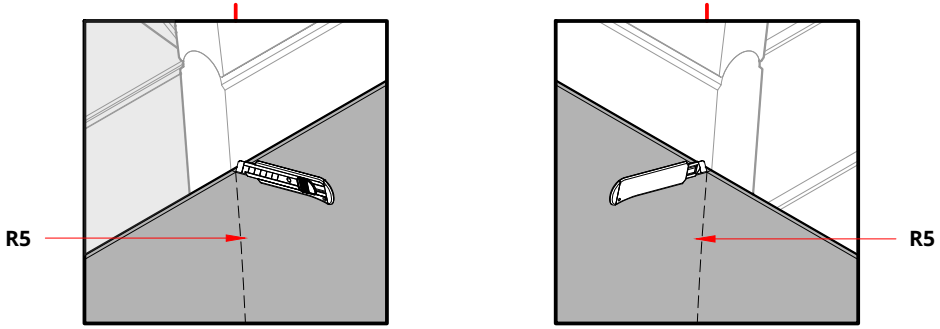
The 1.row starts at the front and offset!
Cut sheets that extend over the edge!
Suitable leftovers can be used!
Repeat these steps on the other side as well!



Dimensions and measurements		
A1	~200 mm	~ 0'-7 7/8"
a	162 mm	~ 0'-6 3/8"
b	171 mm	~ 0'-6 3/4"
c	~313 mm	~ 1'-0 5/16"
d	~333 mm	~ 1'-1 1/8"
e	20 mm	~ 0'-0 13/16"







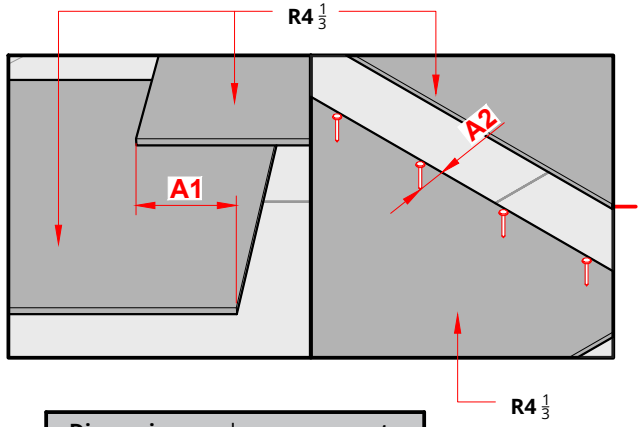
BLACK Cube SERIES

Nail(s)*	Name:	Quantity:
	R6	~30

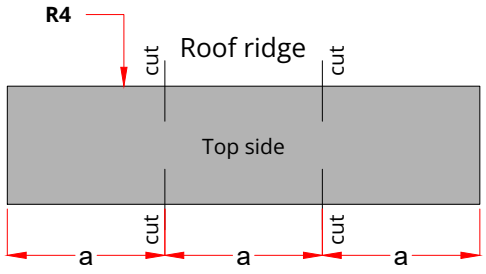
*Nail dimensions - exterior construction detail list

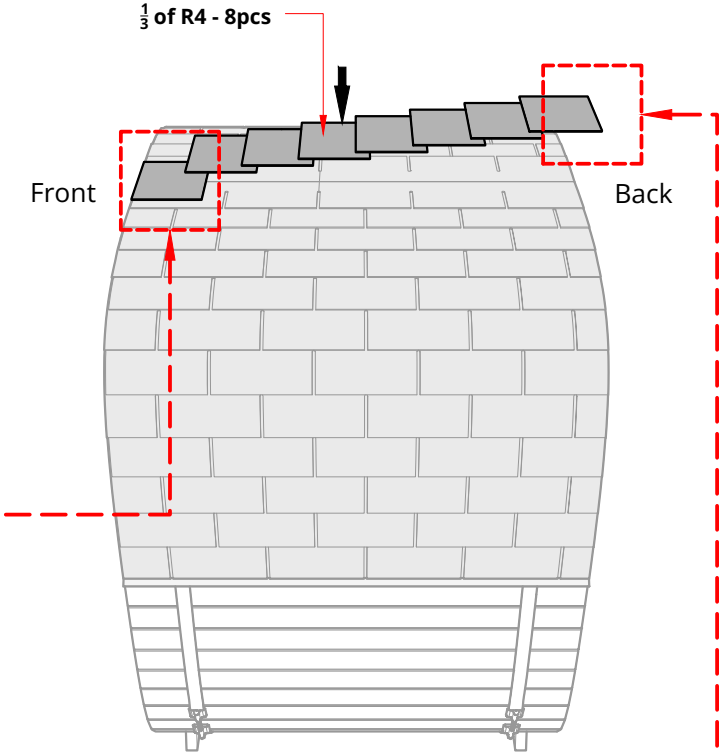
Sheets are self-adhesive, for better adhesion use a heat source!

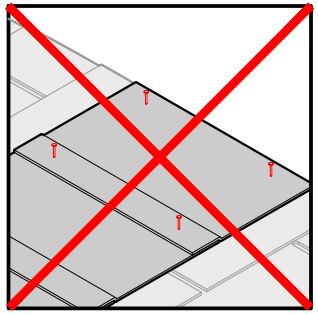
The roof ridge can be started from the back end of the sauna or from the front end!
Cut sheets that extend over the edge!
On the last piece, use bitumen sealant, not nails!

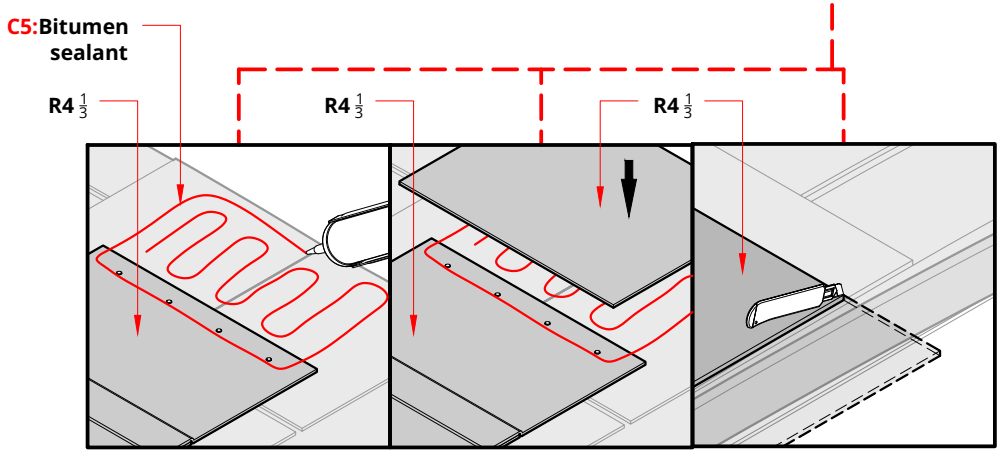


Dimensions and measurements		
A1	~50 mm	~ 0'-1 15/16"
A2	25 mm	~ 0'-1"
a	~333 mm	~ 1'-1 1/8"







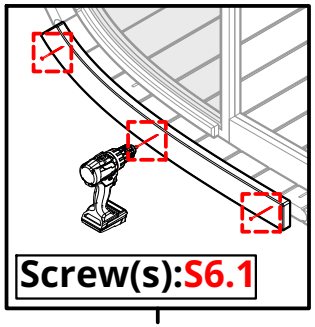


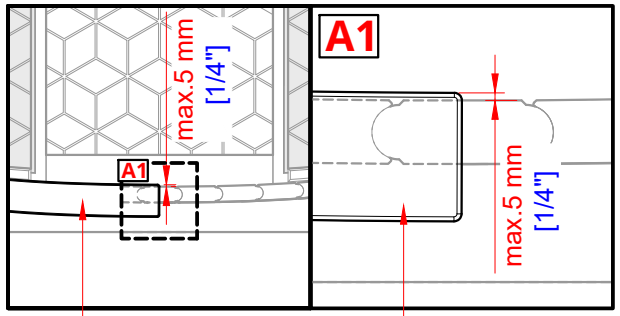
BLACK Cube SERIES

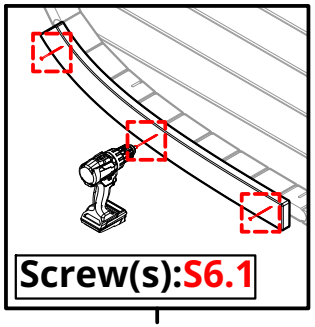
Screw(s)*	Name:	Quantity:
	S6.1	48

*Screw dimensions - exterior construction detail list

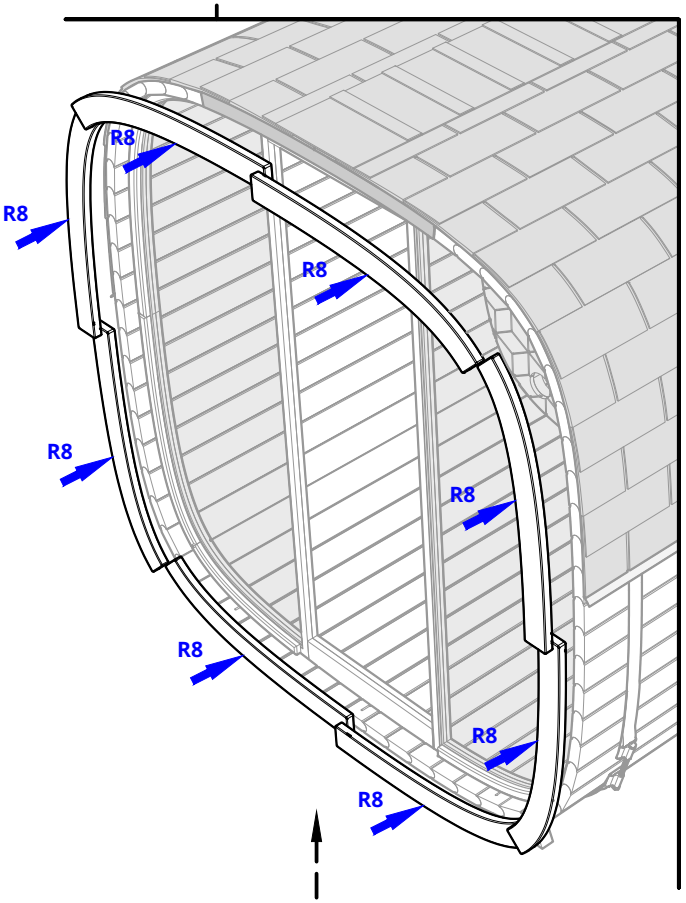
Please countersink the screw head(s)!
Install the cover boards R8, starting from the bottom!
Attach 8 cover boards at the front and back of the sauna!
Fix each with 3 screws!
Fill the gaps between the bitumen sheets and covering boards in front and back with bitumen sealant!



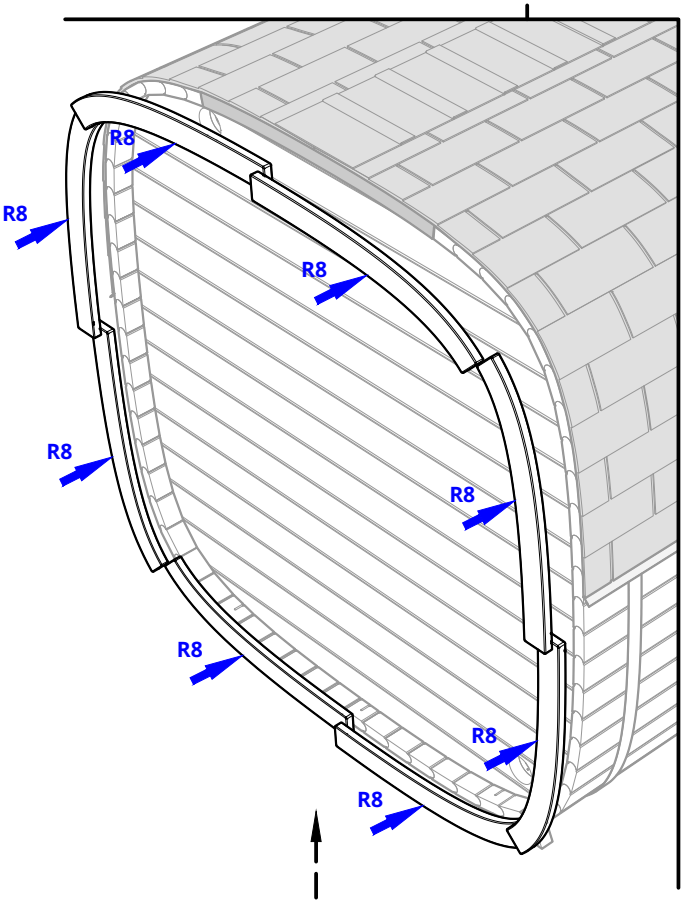




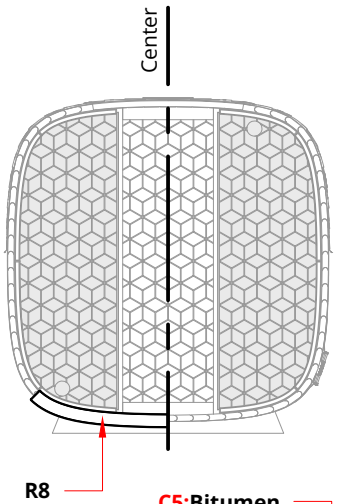
R8

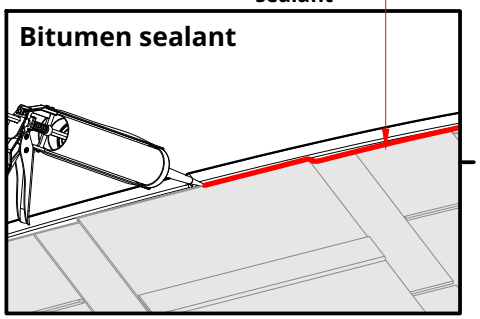


Front view of the sauna

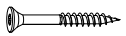


Back view of the sauna



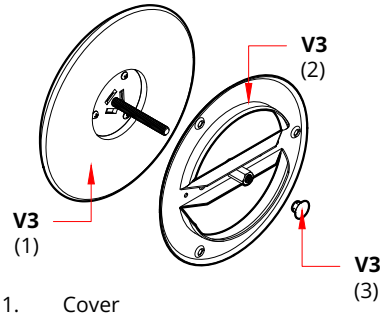


BLACK Cube SERIES

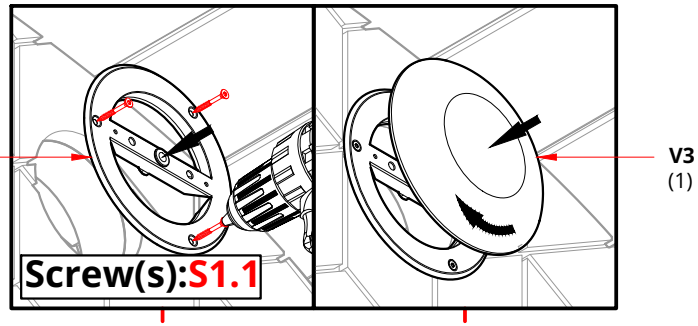
Screw(s)*	Name:	Quantity:
	S1.1	15

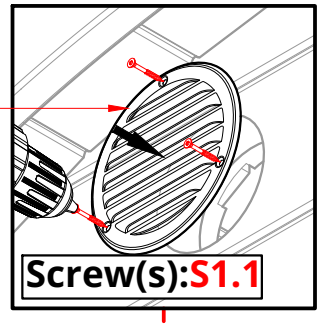
*Screw dimensions - exterior construction detail list

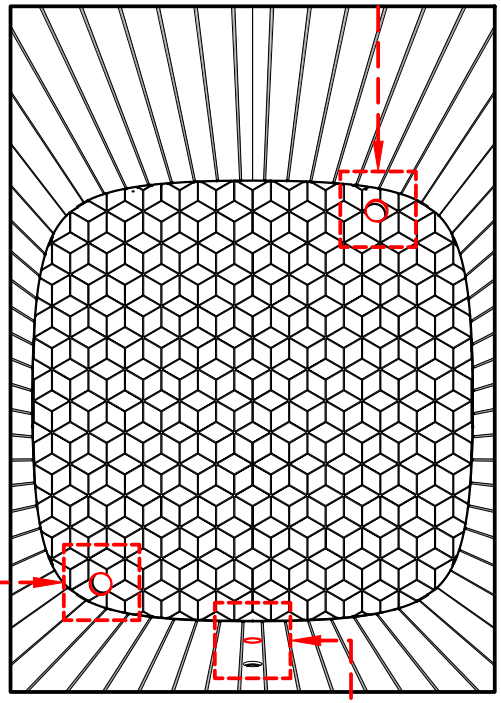
Install The inner and outer ventilation grilles V2 and adjustable cover V3!



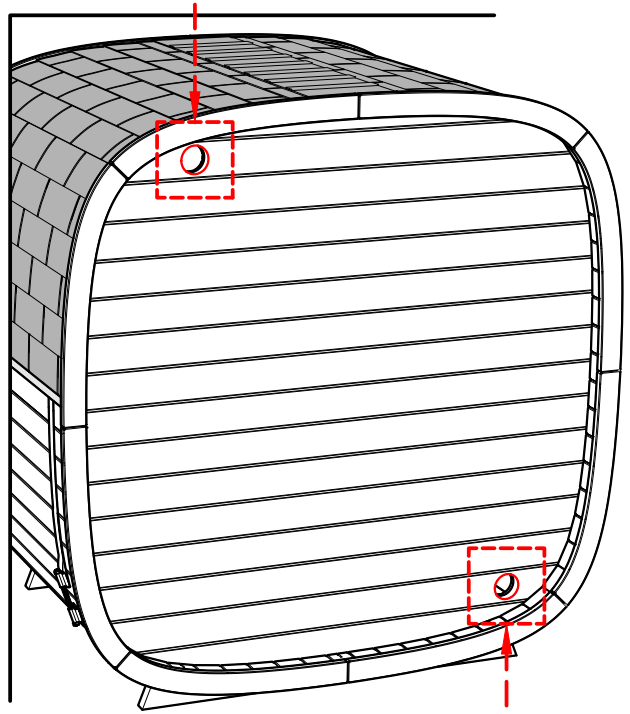
1. Cover
2. Frame
3. Plug



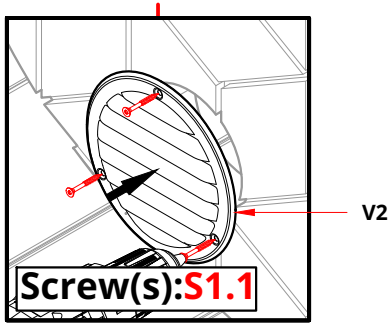


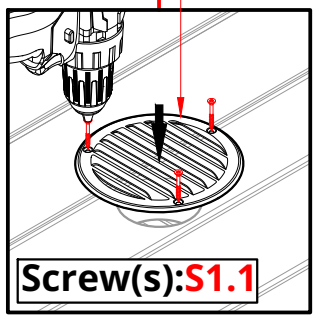


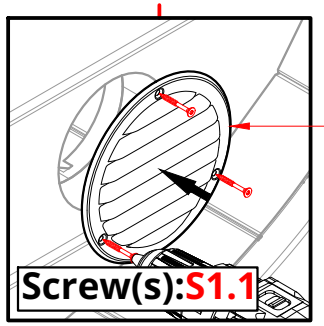
***Front view** (Inside of the sauna)*



Back view of the sauna





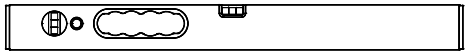


BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	S6.2	14
	S3.2	14

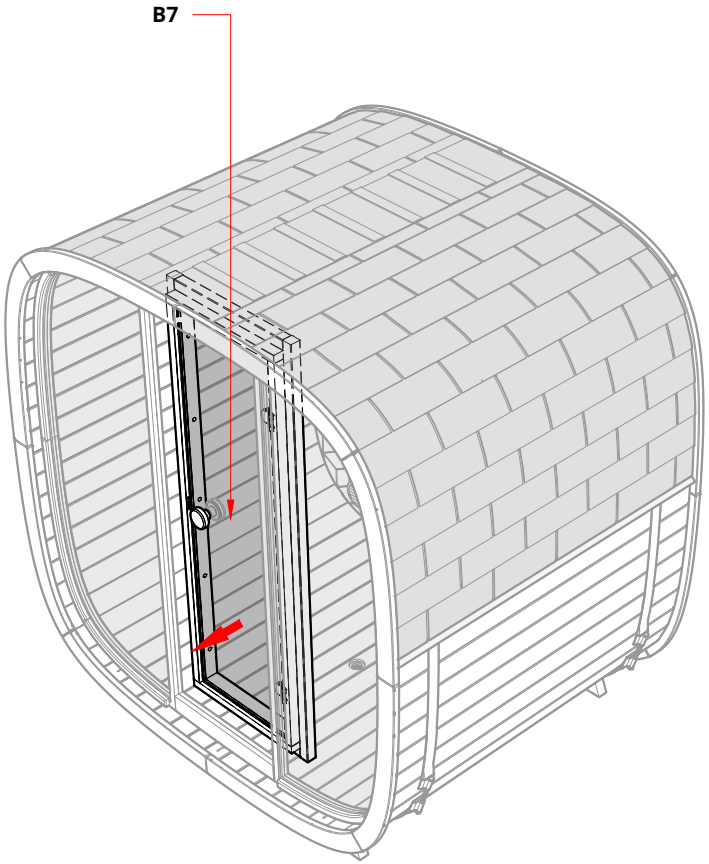
*Screw dimensions - exterior construction detail list

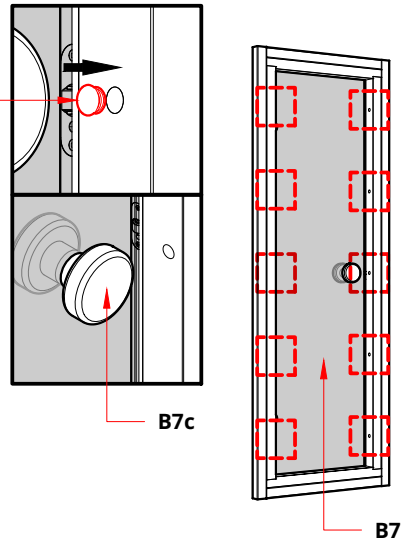
NB! use a level



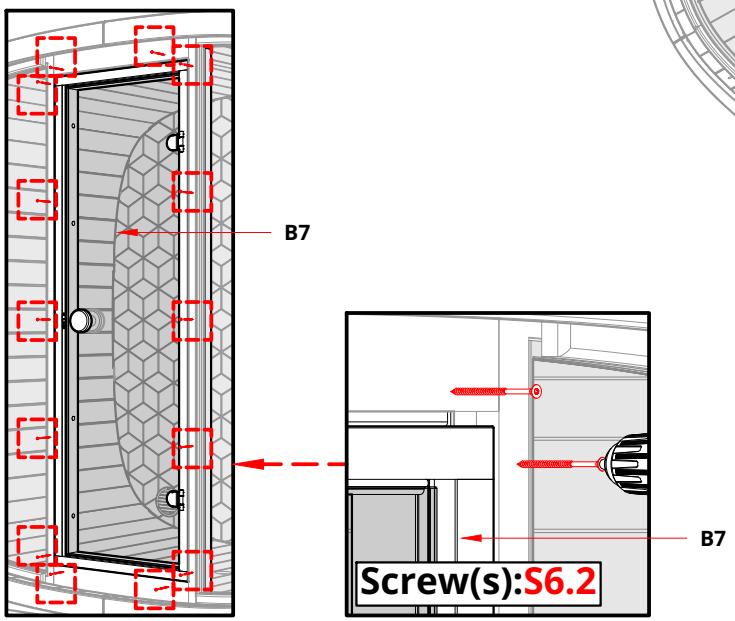
Door installation for the front glass wall!
Please countersink the screw head(s)!

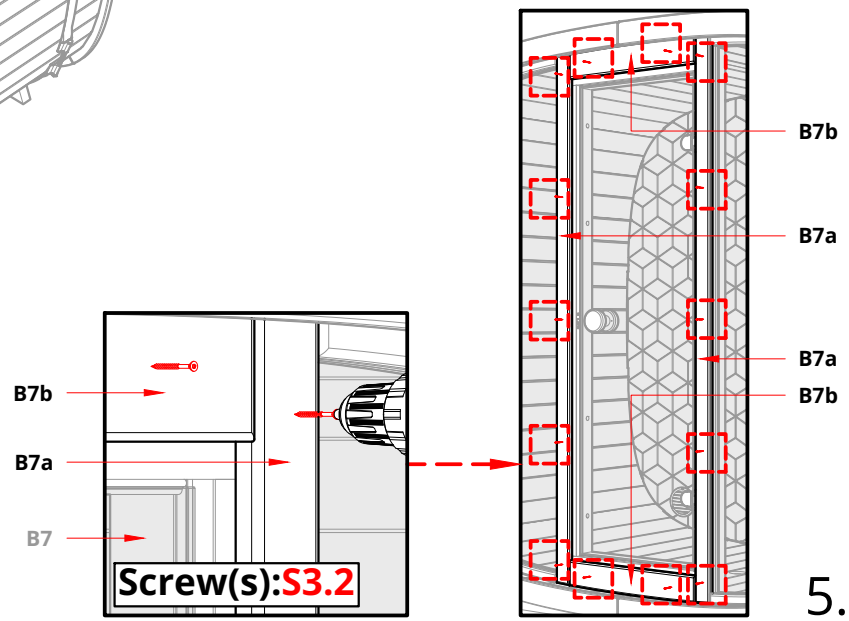
Insert hole cover P ***(if they are not attached)*** and install the door handle!
Install the door from the inside and install door moldings!





BLACK Cube SERIES





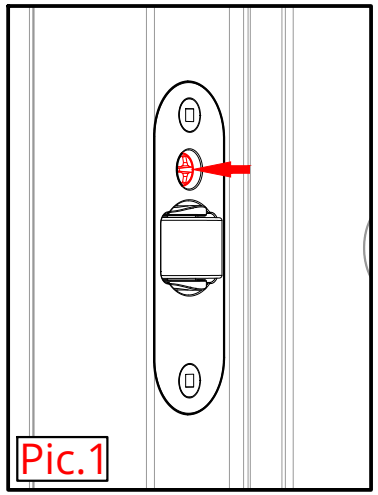
ADJUSTMENT OF THE ROLLER-LOCK

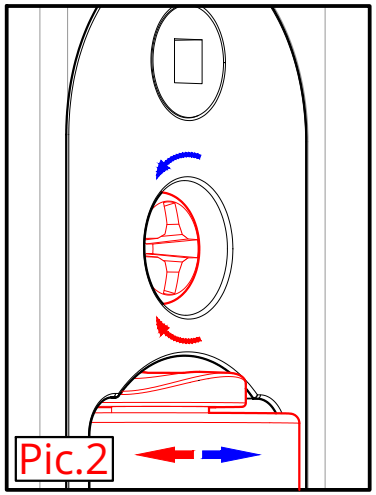
Tools required for adjustment:

- PH2 screwdriver required

Adjustment guide:

- The roller lock can be adjusted by turning the screw indicated by the red arrow (shown in Pic.1).
- Turning clockwise moves the roller inward (*shown by red arrows in pic.2*) and turning counter-clockwise moves the roller outward (*shown by blue arrows in pic.2*) .
- The roller should be adjusted so that the **glass moves freely** behind the roller without applying force.
- The roller lock adjustable screw must be always on the upper side of the roll, otherwise the door may get stuck.





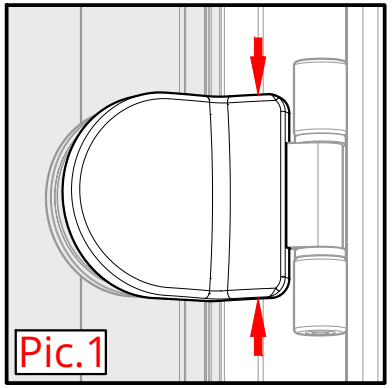
ADJUSTING THE HINGES

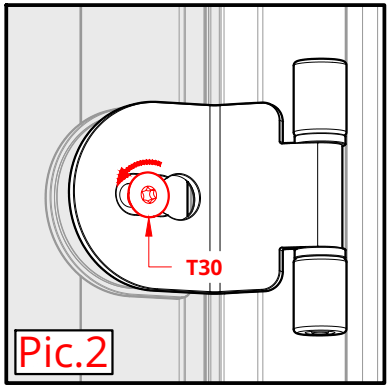
Tools required for adjustment:

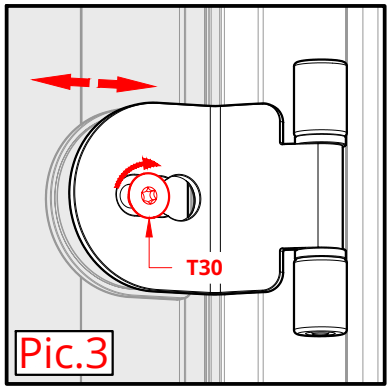
- T30 (*Torx30*) Allen wrench or hexagon Bit T30 (*Torx30*)
- Cordless drill (if Torx Allen wrench is not available)

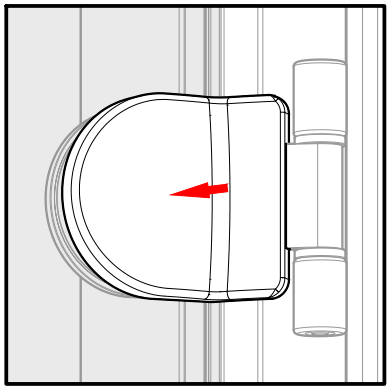
Adjustment guide:

- Remove plastic from hinges. To remove plastic, start lifting from the locations indicated by the red arrows (shown in Pic.1).
- Loosen the bolt slightly (shown in Pic.2). **(DO NOT OPEN COMPLETELY)**
- If both hinge bolts are slightly loosened, then it is possible to move the glass in the directions shown in Pic.3.
- If the glass is set to the required distance, the bolts must be tightened again(shown in Pic.3). **Put the cover back on!**









BLACK Cube SERIES

ADJUSTING ABLOY HINGES FOR GLASS DOORS

Features:

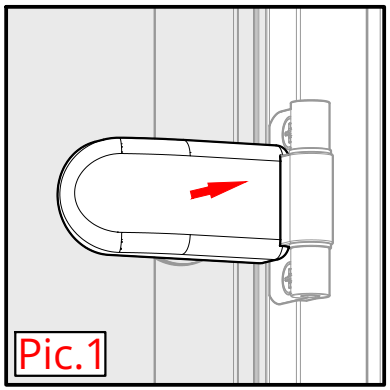
- The ABLOY FL 65 SSD Fe is a glass door hinge with lateral adjustment of +/- 3 mm.
- The hinge load capacity is approximately 40 kg when using two hinges.

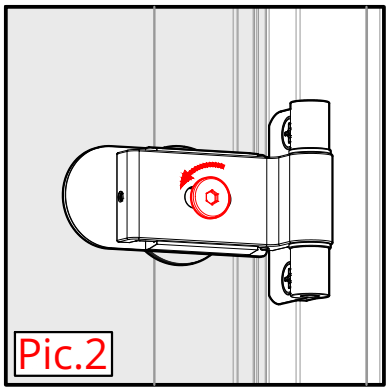
Tools required for adjustment:

- 5mm Allen wrench or hexagon Bit SW5
- 3mm Allen wrench or hexagon Bit SW3
- Cordless drill (if Allen wrenches (*hexagon wrenches*) are not available)

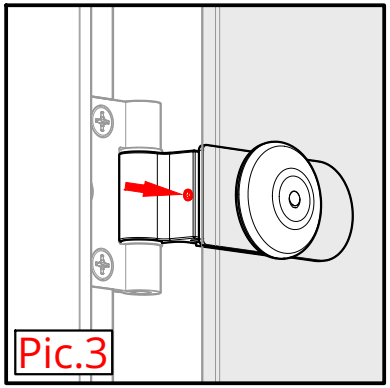
Adjustment guide:

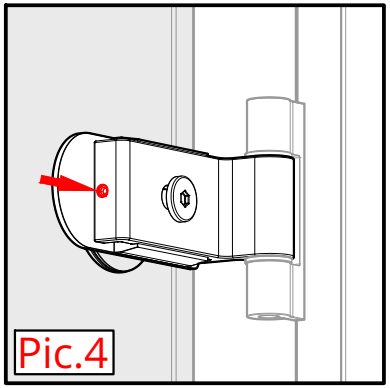
- Remove the plastic cover from the hinges (*Cover removal, in the direction indicated by the arrow as shown in the Pic.1*). Loosen the bolt slightly (*shown in the Pic.2*) **(DO NOT UNSCREW COMPLETELY)**.





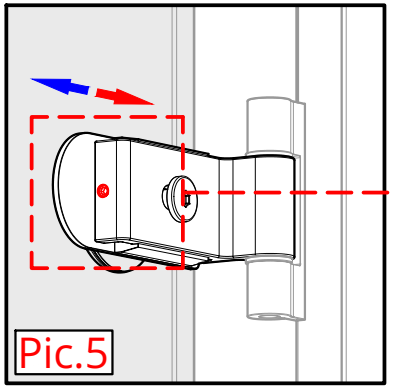
- To adjust the hinges, you need to turn the screws (*shown in the Pic.3 and 4*) with a 3mm allen wrench or a hexagon bit SW3.

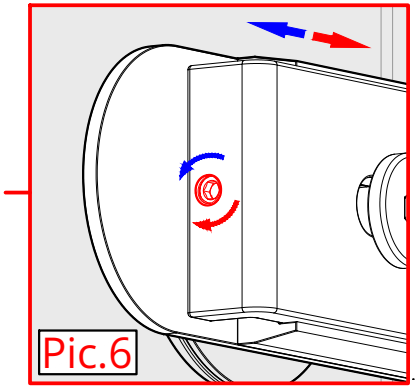




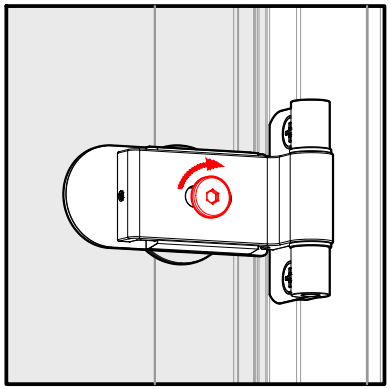
The direction of the glass movment depends on the direction the screw is turned *(assuming the screw on the other side has been loosened)*:

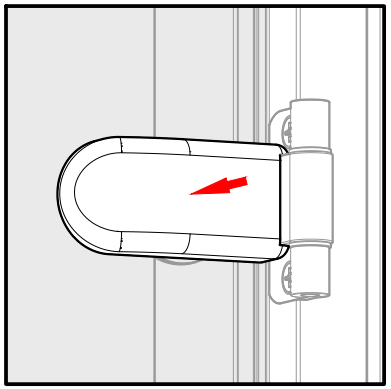
- Turning the screw clockwise (*shown by red arrows in pic. 5 and 6*), the glass moves closer to the hinges.
- Turning the screw counterclockwise (*shown by blue arrows in pic. 5 and 6*), the glass moves away from the hinges.
- Afterwards, tighten the screw on the other side.





- If the hinges are adjusted, tighten the larger bolt. **Put the cover back on!**





General recommendations:

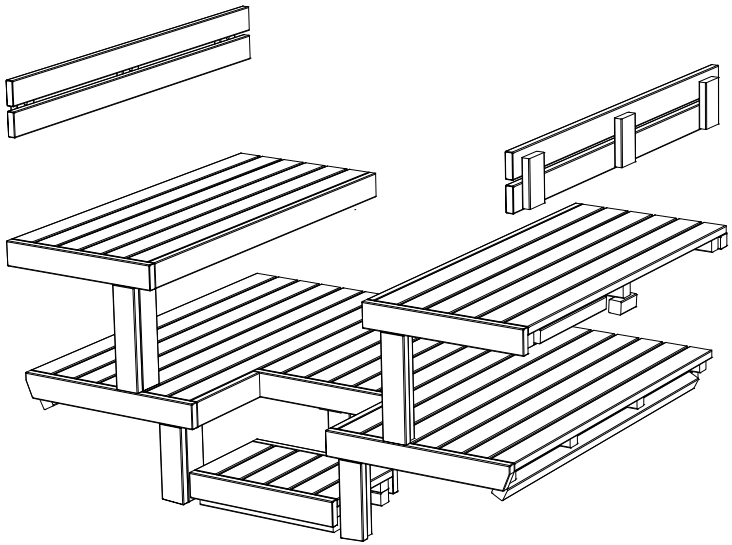
When adjusting the hinge, it is important to be careful not to damage the glass or the hinge itself.

Youtube video

BLACK Cube SERIES

Bench assembly

Bench assembly (Steam room)



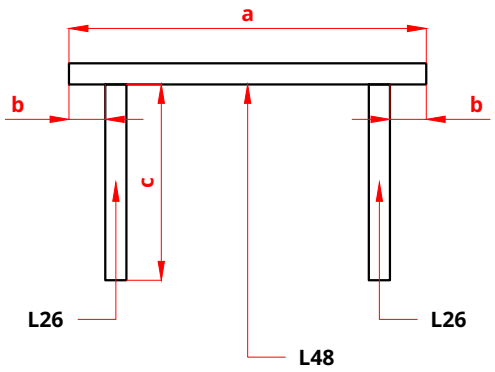
Chapters: 6.1- 6.10 !!!

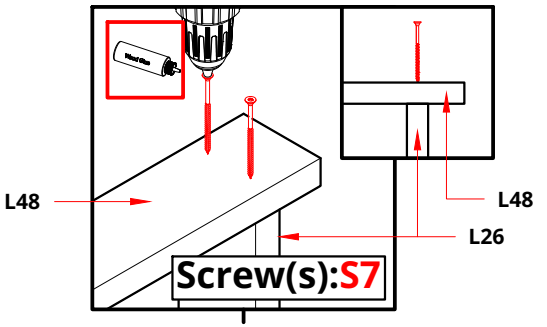
BLACK Cube SERIES

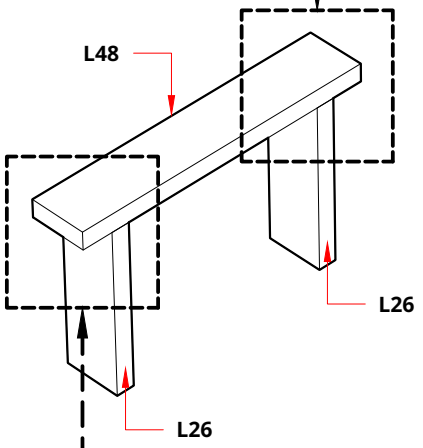
Screw(s)*	Name:	Quantity:
	S7	4
	S5	4

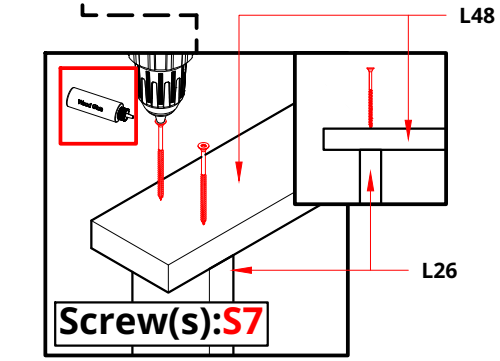
*Screw dimensions - Bench assembly detail list

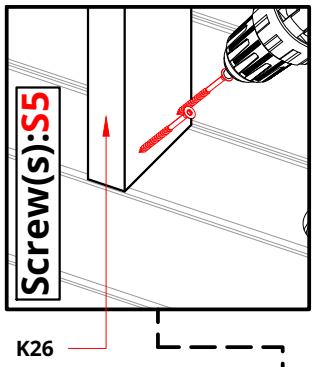
Please countersink the screw head(s)!
The boards L48 and L26 may be longer, must be cut to size!
First build the support for the lower bench!
Install the lower bench support!

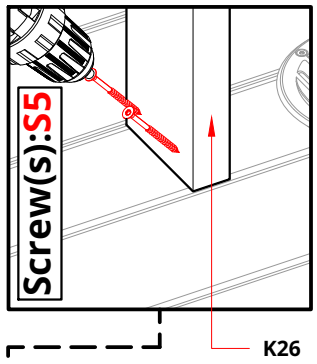


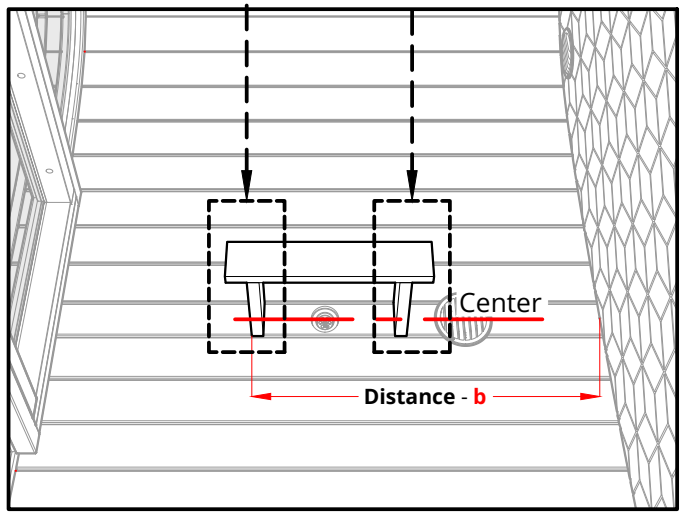








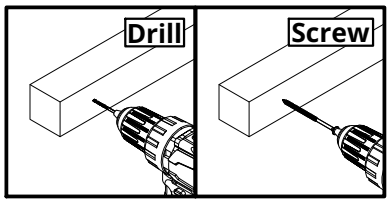




Dimensions and measurements		
a	~473 mm	~ 1'-6 5/8"
b	48 mm	~ 0'-1 7/8"
c	~259 mm	~ 0'-10 3/16"
Distance - b	853 mm	~ 2'-9 9/16"

BLACK Cube SERIES

Notice!
Drill 4mm hole in the L... board(s) before screwing.



Use glue!



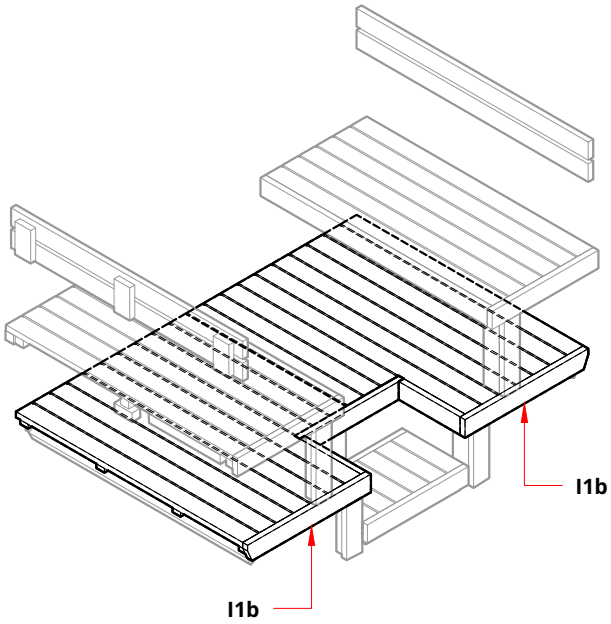
Preparation for the embedding flange in the bench I1a and I1b (I1).

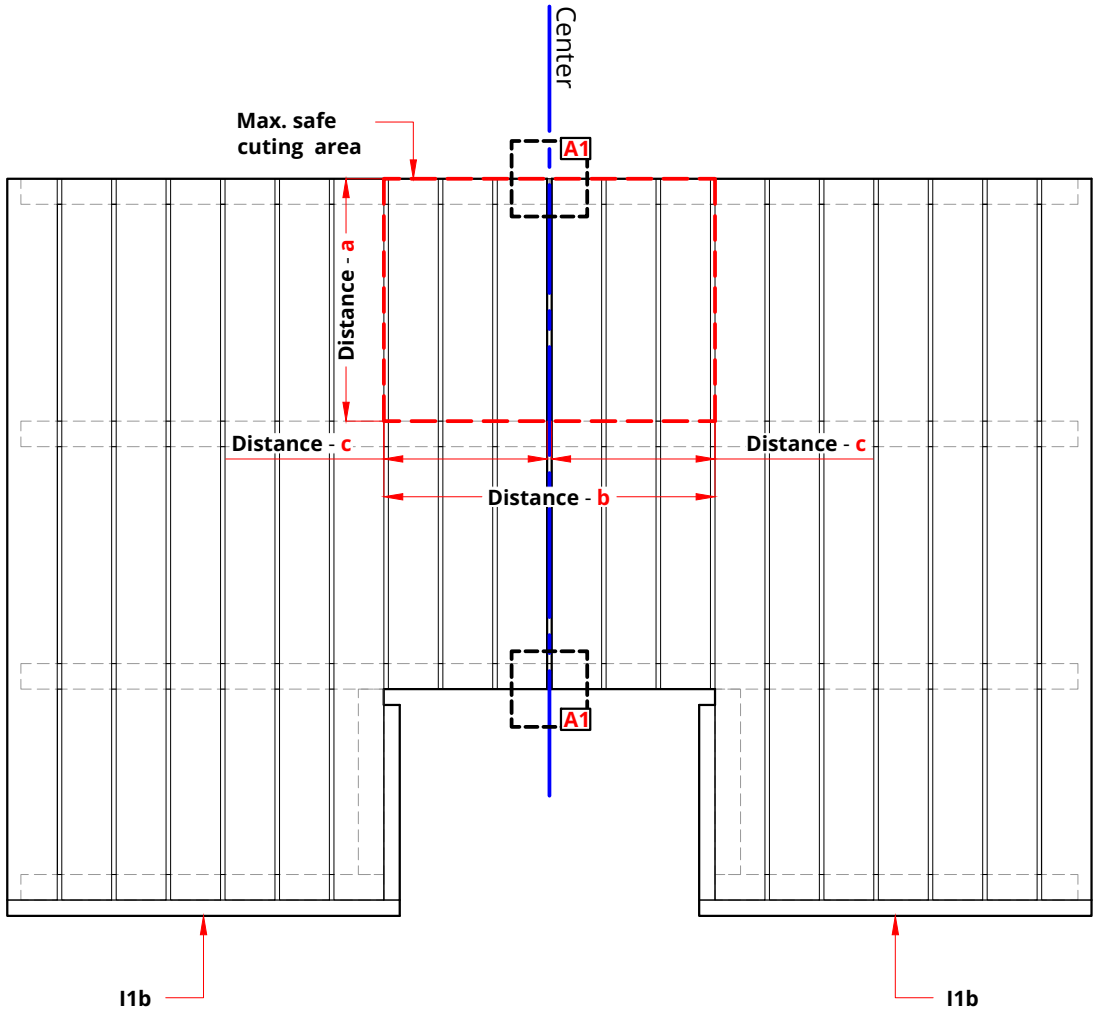
Attention!!!

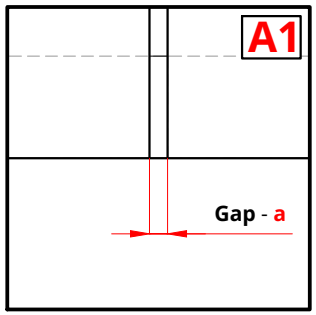
The red square cutting line indicates the maximum safe cutting area, not the hole for the heater.

Before cutting the hole, read the user manual of the heater and its accessories, how to install it correctly!

The picture shows only the max. safe cuting area, distances where it would be appropriate to place the heater and its accessories.

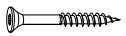






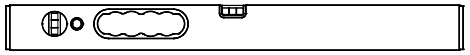
Dimensions and measurements		
Distance - a	~427 mm	~ 1'-4 13/16"
Distance - b	584 mm	~ 1'-11"
Distance - c	~288 mm	~ 0'-11 5/16"
Gab - a	8 mm	~ 0'-0 5/16"

BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	S7	20

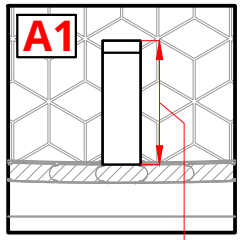
*Screw dimensions - Bench assembly detail list

NB! use a level

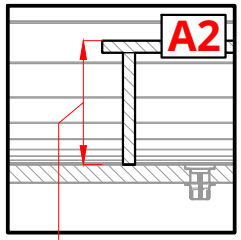


Please countersink the screw head(s)!
Use glue between the square wood K... and the wall!
Measure the height of the support from the center board of the floor!
Install square woods for **Lower benches**!

Front view *(from inside)*



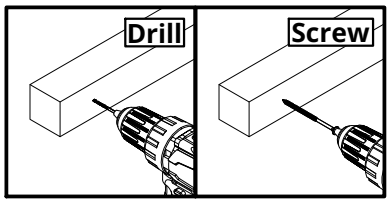
Side view *(from inside)*



Measure the height - **a** of the support

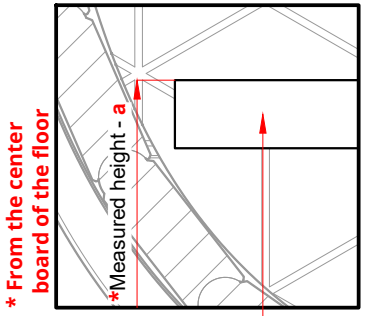
BLACK Cube SERIES

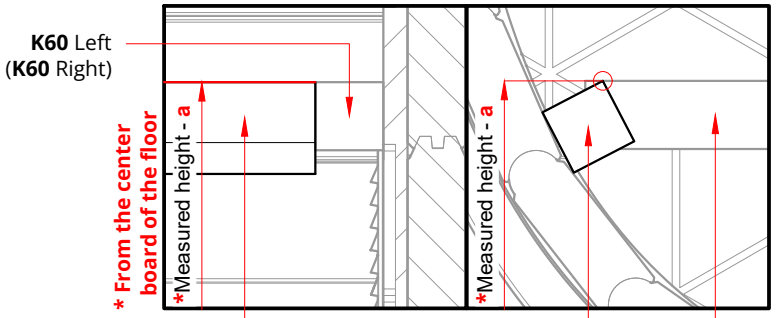
Notice!
Drill 4mm hole in the K... square woods before screwing.

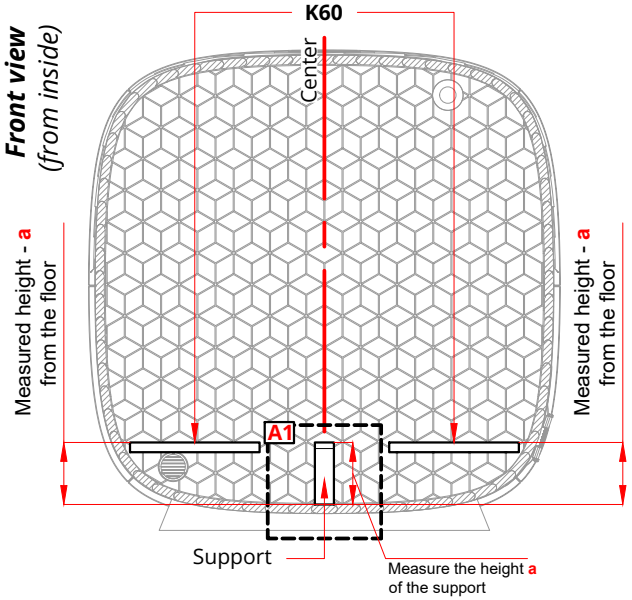


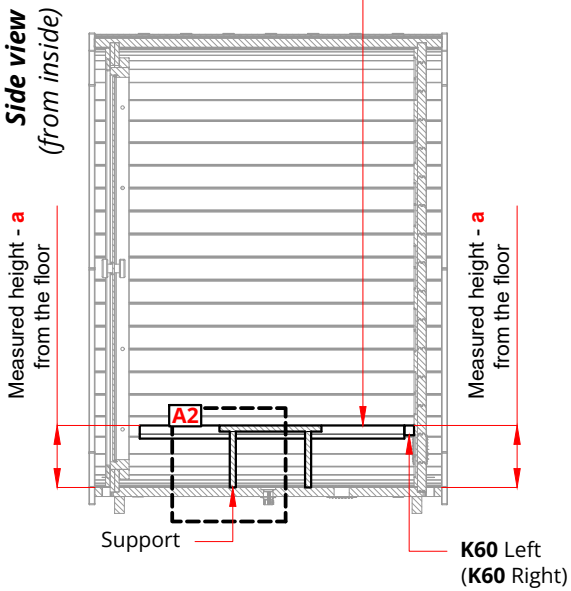
Use glue!

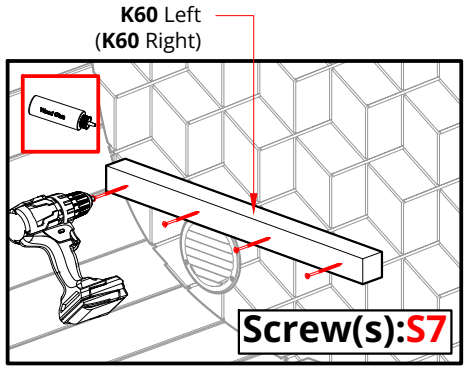


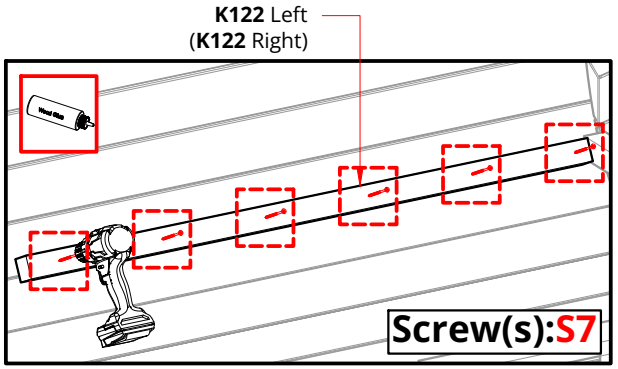








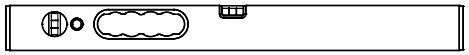




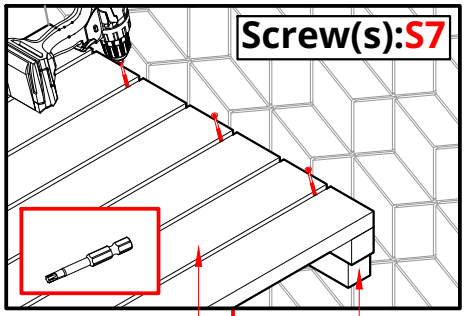
Screw(s)*	Name:	Quantity:
	S7	6
	S5	4

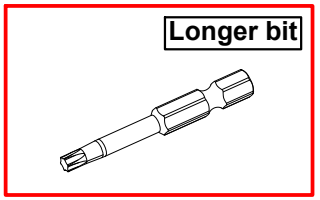
*Screw dimensions - Bench assembly detail list

NB! use a level

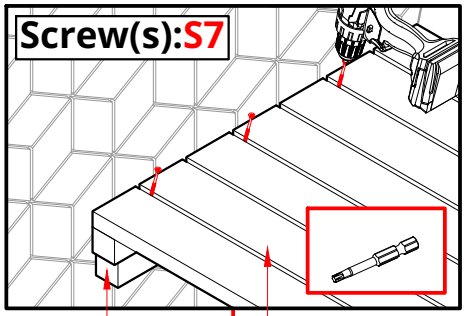


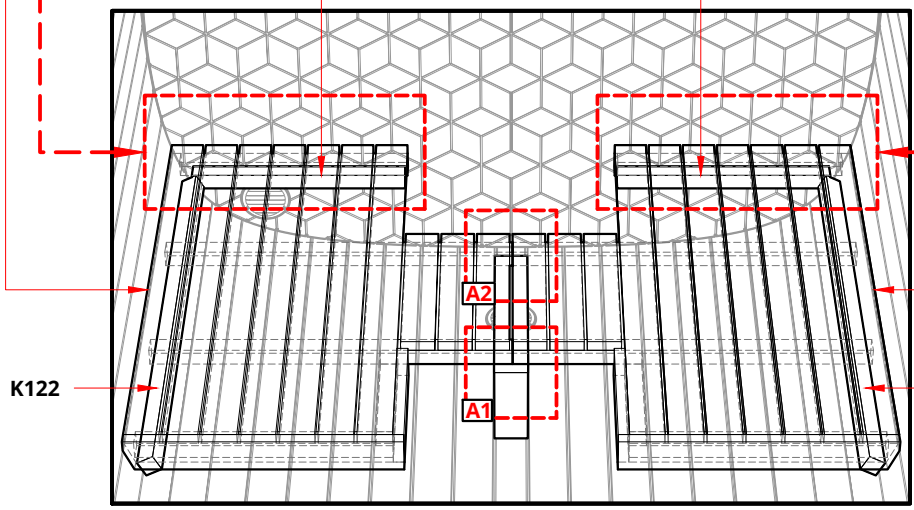
Please countersink the screw head(s)!
Install the **Lower benches**!
Use a **longer screwdriver bit** when screwing in the back wall side of the bench!

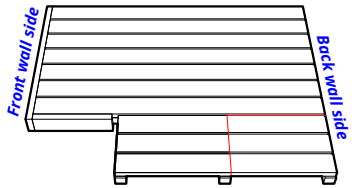




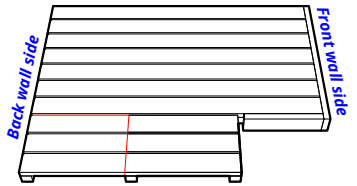
Use Longer screwdriver bit!





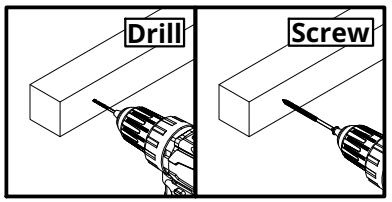


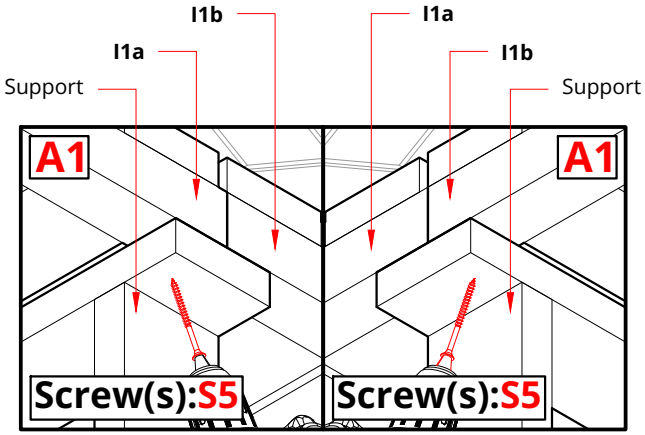
Upper bench **I1a** Left

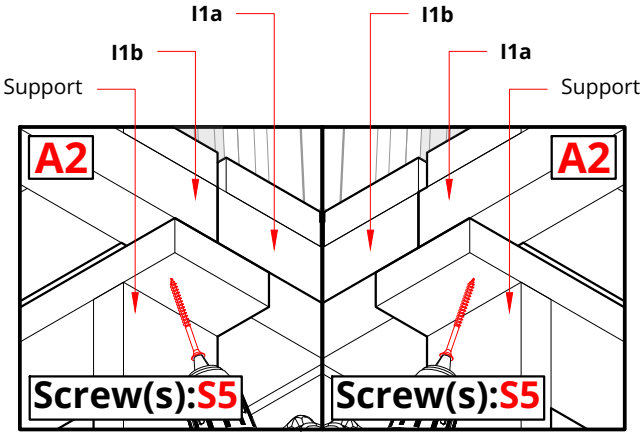


Upper bench **I1b** Right

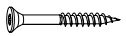
Notice!
Drill 4mm hole in the support before screwing.





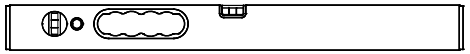


BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	S5	4

*Screw dimensions - Bench assembly detail list

NB! use a level

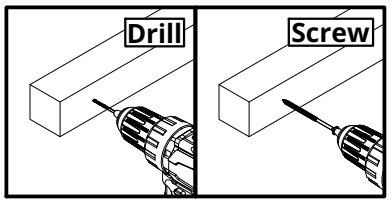


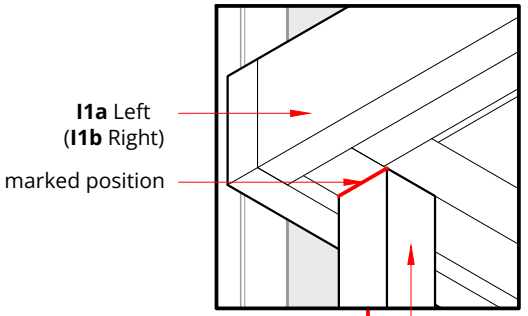
Please countersink the screw head(s)!
The square wood(s) K30 are longer, they must be cut to the correct size!
Mark the bench leg(s) location(s)!
Measure the length of the bench leg(s) K30 from the marked position downwards!
Cut the bench leg(s) K30 correct size and install!
Repeat these steps on both sides!

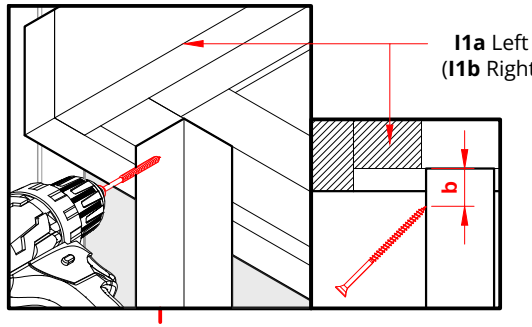
Dimensions and measurements		
Distance - a	48 mm	~ 0'-1 7/8"
b	25 mm	~ 0'-1"

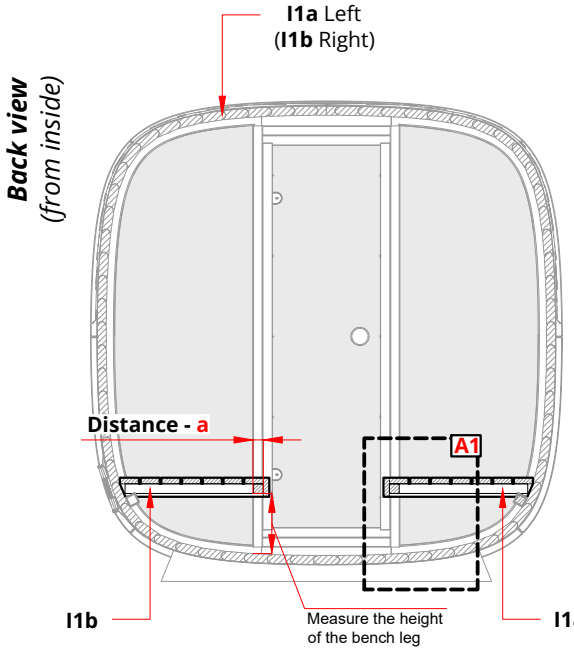
BLACK Cube SERIES

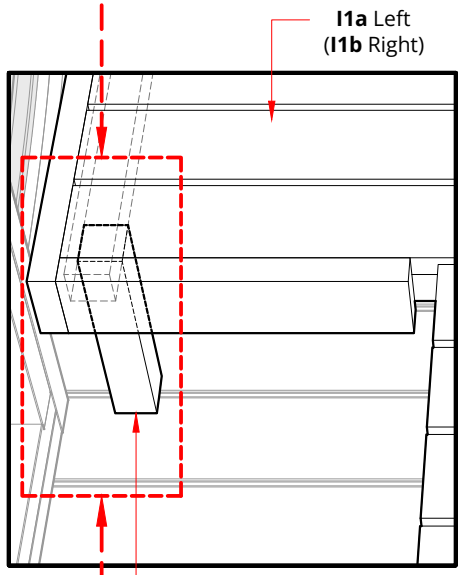
Notice!
Drill 4mm hole in the K... square woods before screwing.

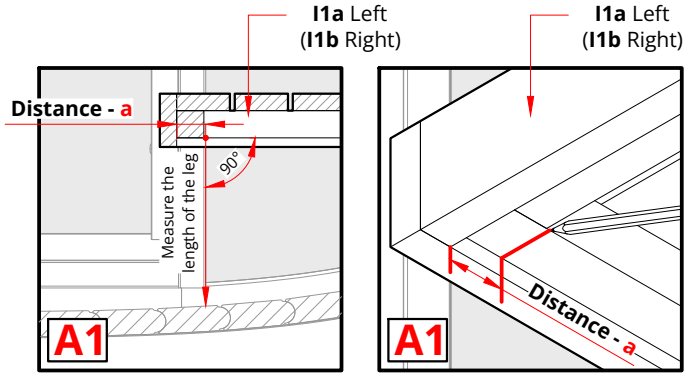


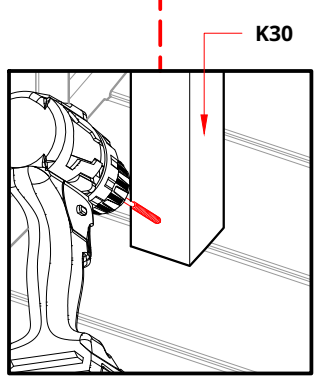


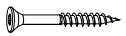






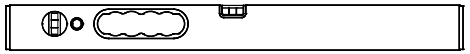




Screw(s)*	Name:	Quantity:
	S5	12

*Screw dimensions - Bench assembly detail list

NB! use a level

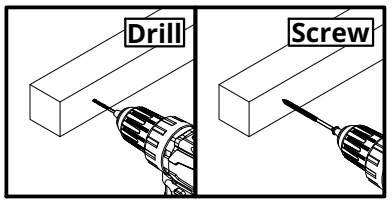


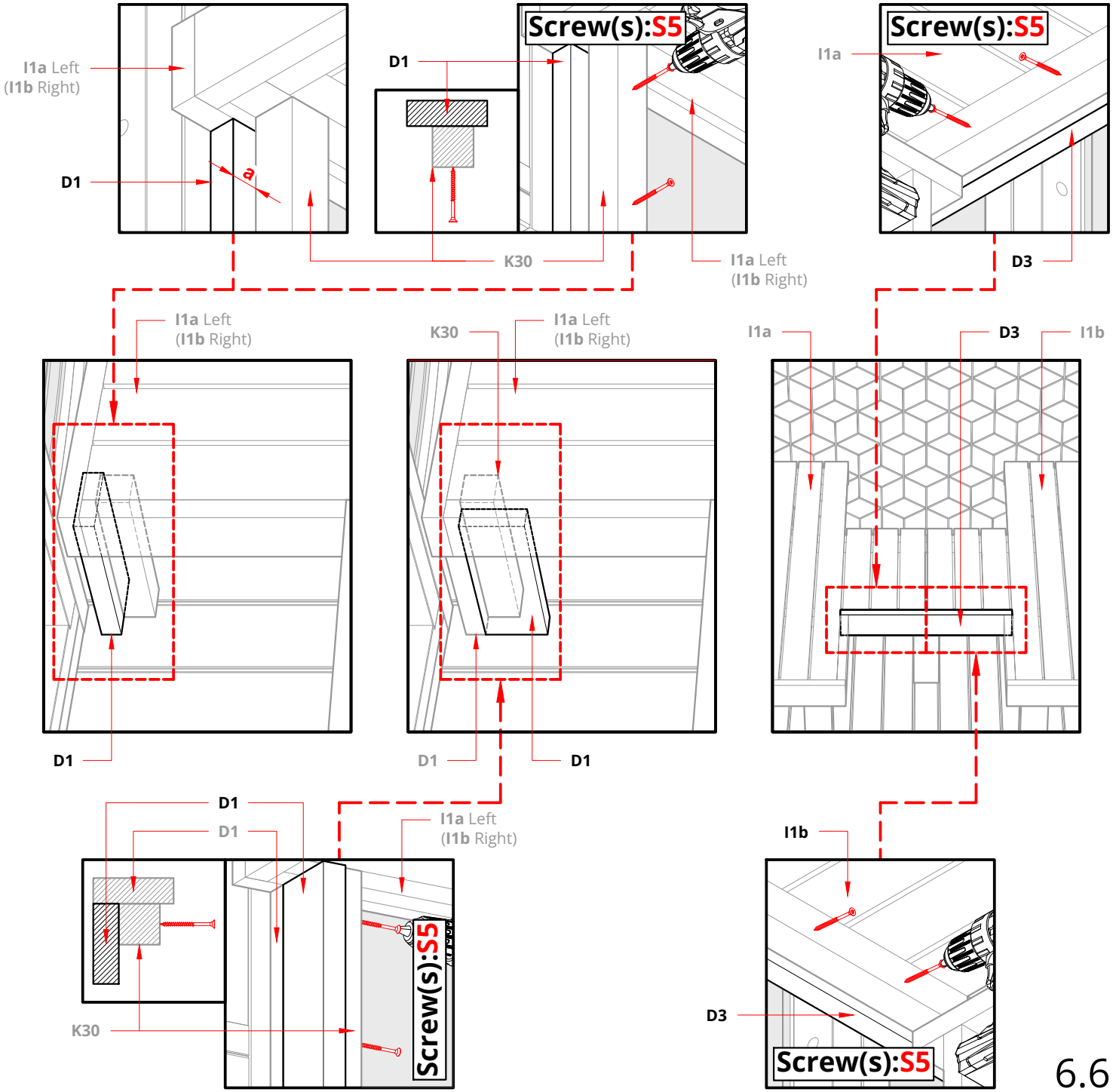
The cover board(s) D1 and D3 are are longer and must be cut to the correct size!
Install the Lower bench leg cover boards **on the right and left side**!
Install the cover board between the lower benches!

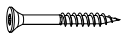
Dimensions and **measurements**		
a	28 mm	~ 0'-1 1/8"

BLACK Cube SERIES

Notice!
Drill 4mm hole(s) before screwing.

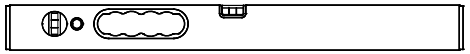




Screw(s)*	Name:	Quantity:
	S7	12

*Screw dimensions - Bench assembly detail list

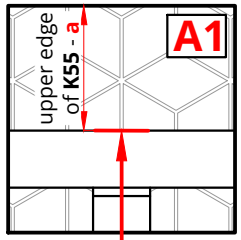
NB! use a level



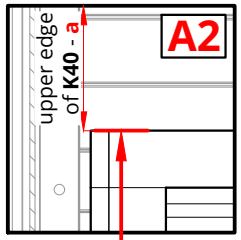
Please countersink the screw head(s)!
Measured from the center board of the floor!
Use glue between the square wood K... and the wall!
Install square woods for benches!

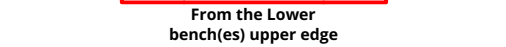
Dimensions and measurements		
a	422 mm	~ 1'-4 5/8"
Distance - b	~805 mm	~ 2'-7 11/16"

Front view *(from inside)*



Side view *(from inside)*

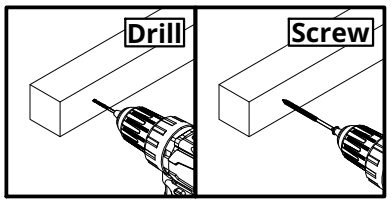




BLACK Cube SERIES

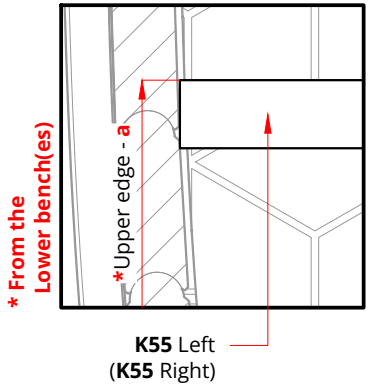
Notice!

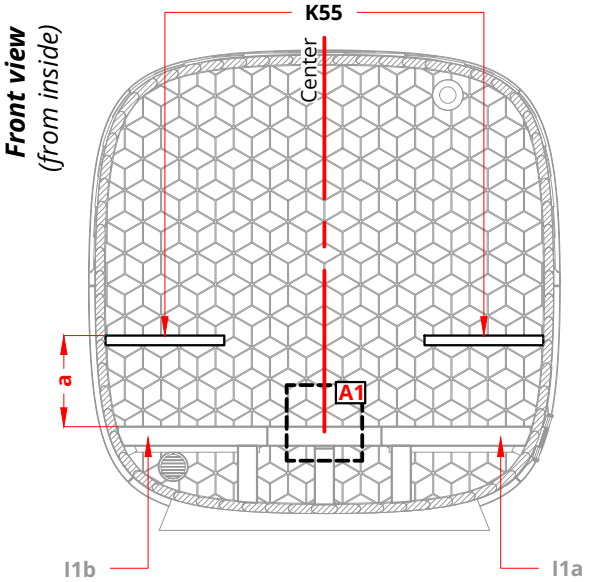
Drill 4mm hole in the K... square woods before screwing.

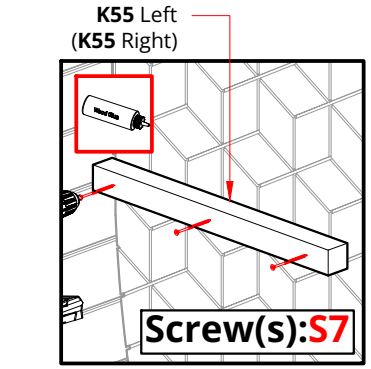


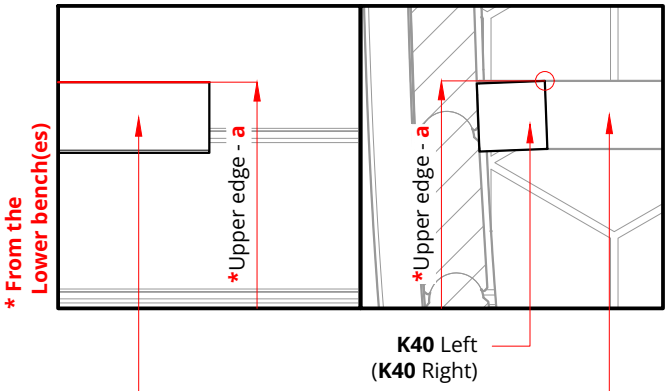
Use glue!

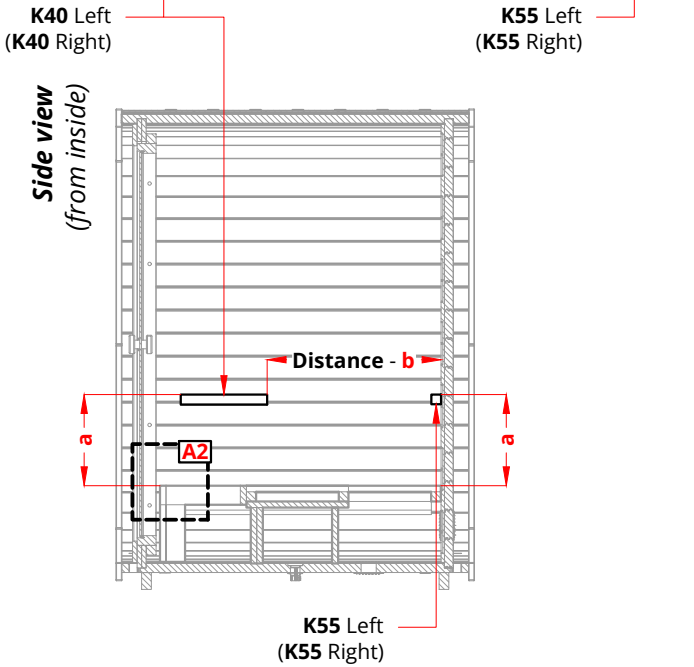


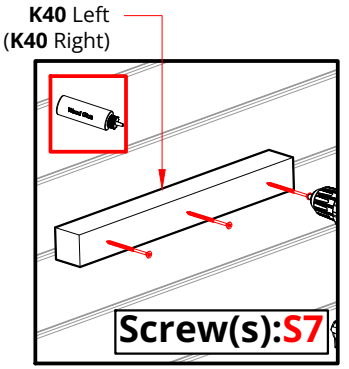










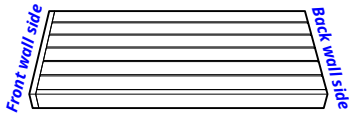


Screw(s)*	Name:	Quantity:
	S7	10
	S5	8

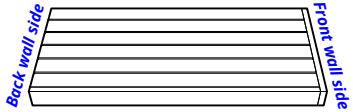
*Screw dimensions - Bench assembly detail list

Please countersink the screw head(s)!
The square wood(s) K40 are longer, they must be cut to the correct size!
Use glue between the square wood K... and the wall!
Measure the length K40 of the upper bench support leg, then cut and install it!
Put the upper bench in place **(do not fasten with screws),** place the square wood **K10** it under the bench and mark the location as shown in the picture!
Move the bench aside to install **K10** where it was marked and then install the upper bench!
Repeat these steps on both sides!

Dimensions and measurements		
a	25 mm	~ 0'-1"
b	28 mm	~ 0'-1 1/8"
c	~248 mm	~ 0'-9 3/4"



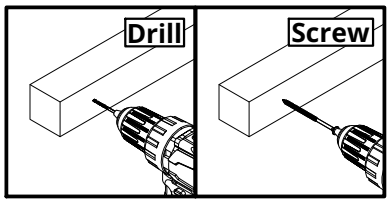
Upper bench **I2a** Left



Upper bench **I2b** Right

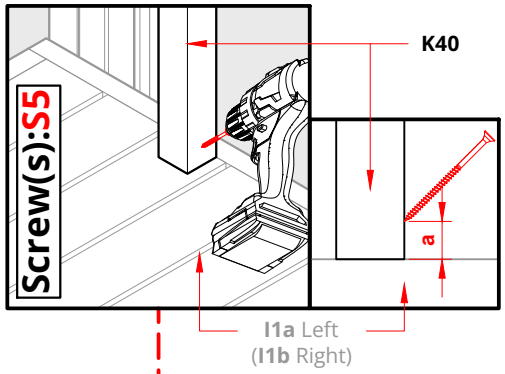
Notice!

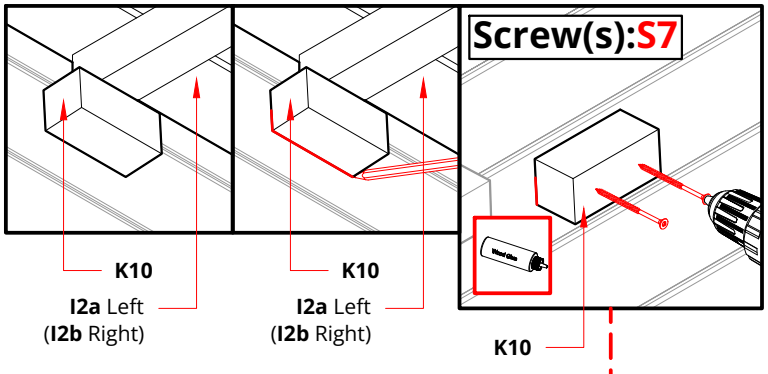
Drill 4mm hole in the K... square woods before screwing.

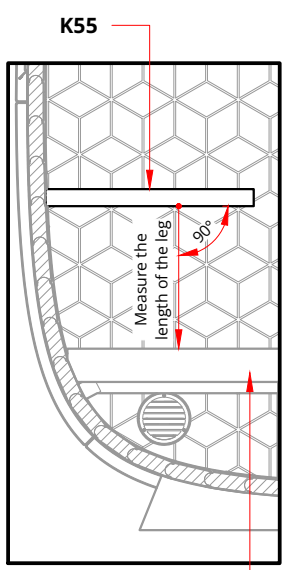


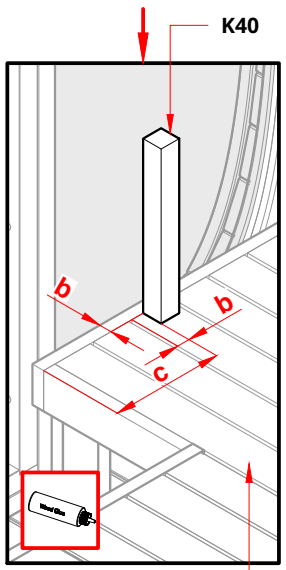
Use glue!

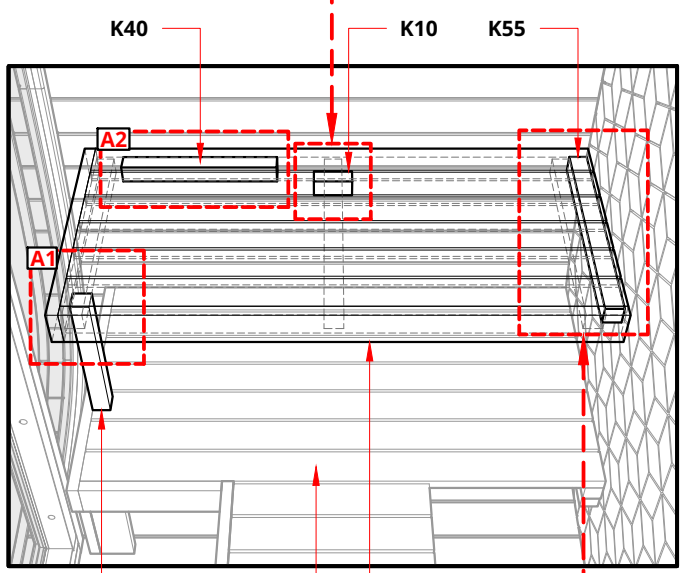


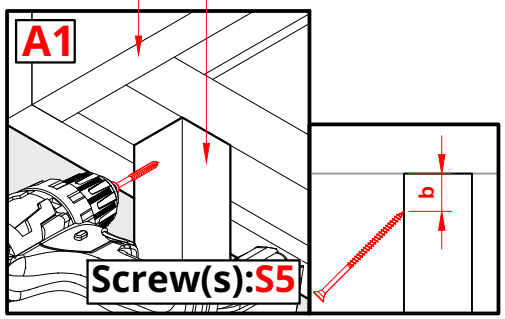


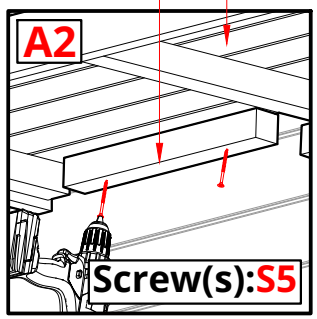


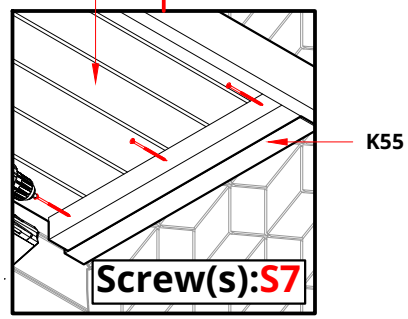




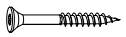






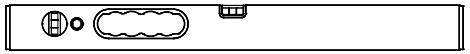


BLACK Cube SERIES

Screw(s)*	Name:	Quantity:
	S5	8

*Screw dimensions - Bench assembly detail list

NB! use a level



The cover board(s) D2 are are longer and must be cut to the correct size!

Install the Lower bench leg cover boards **on the right and left side**!

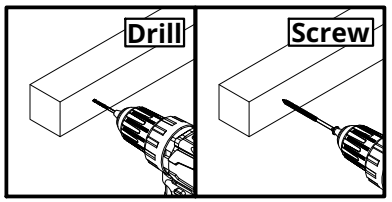
Install the Step bench **I4**!

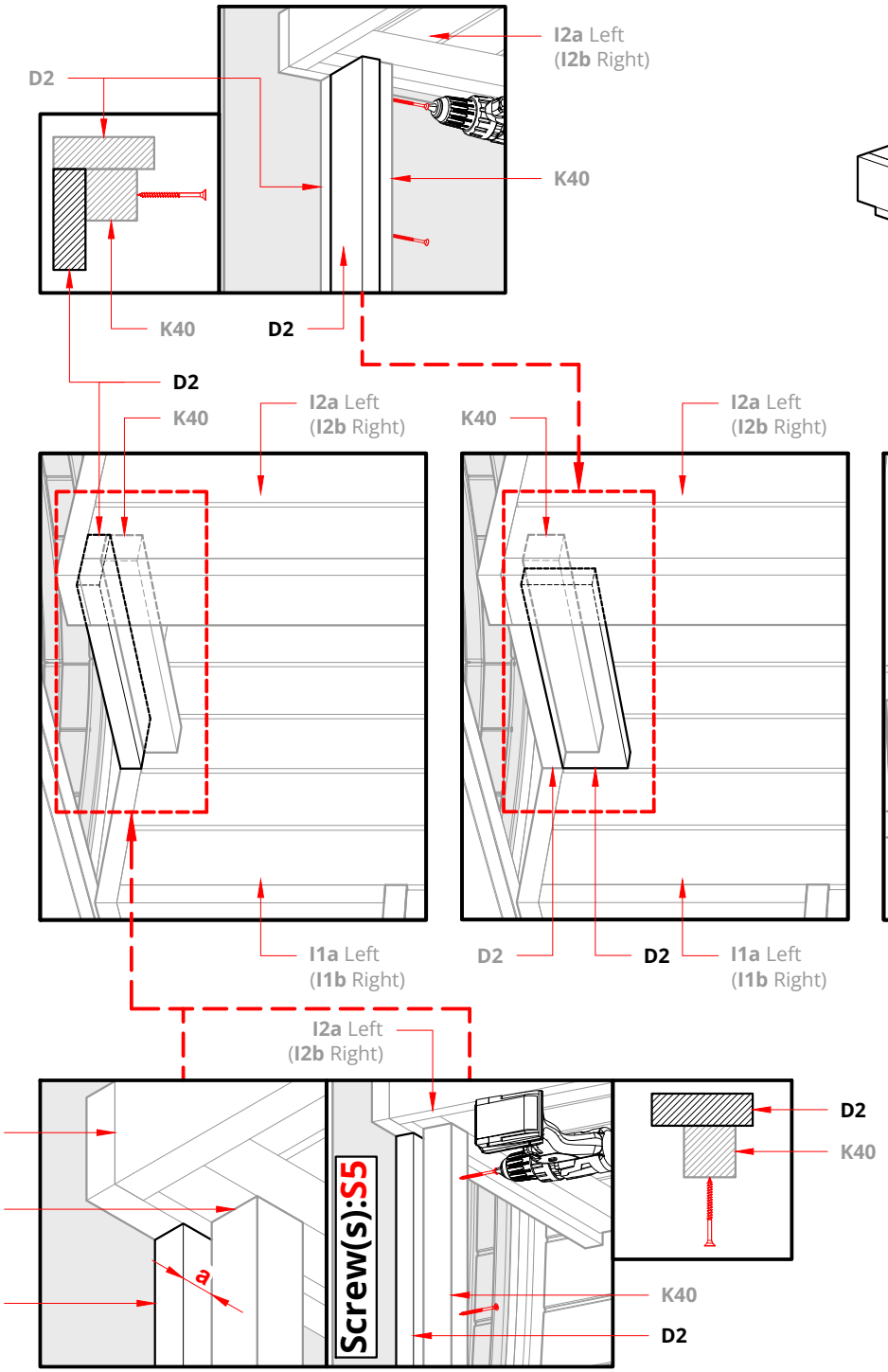
Dimensions and measurements		
a	28 mm	~ 0'-1 1/8"

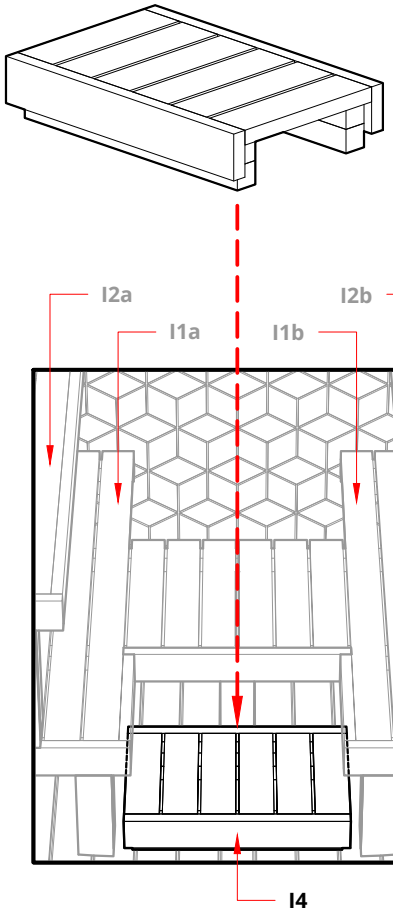
BLACK Cube SERIES

Notice!

Drill 4mm hole(s) before screwing.



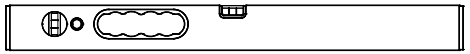




Screw(s)*	Name:	Quantity:
	S5	6
	S2	6

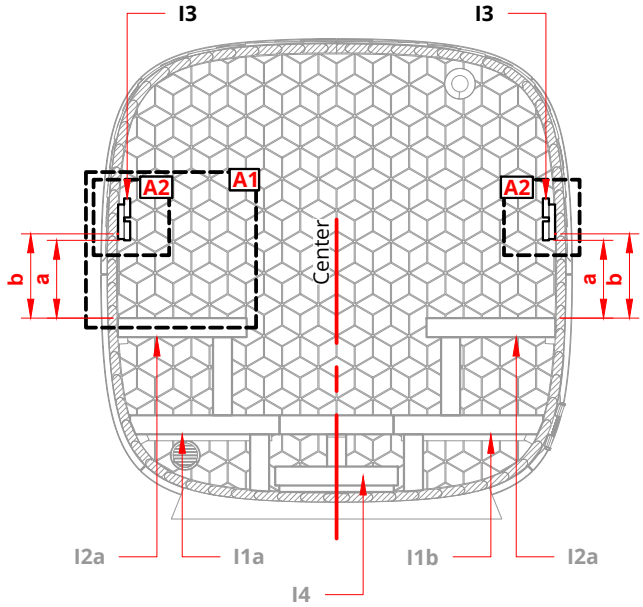
*Screw dimensions - Bench assembly detail list

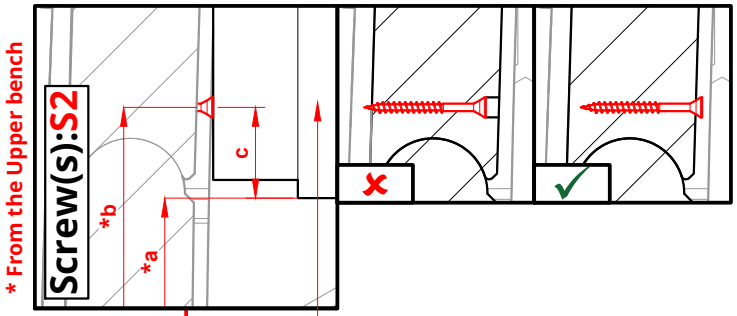
NB! use a level

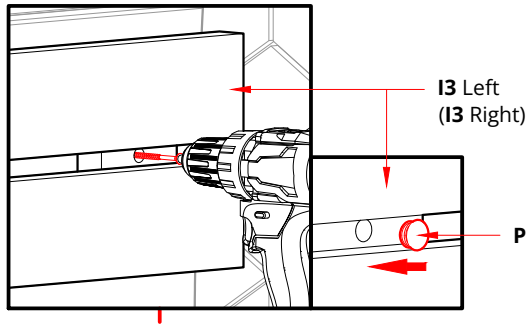


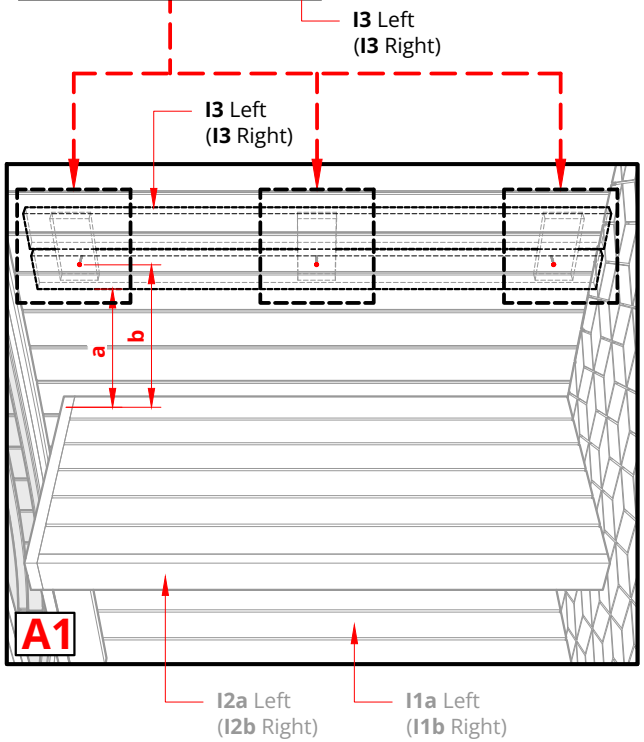
Bench Backrest Installation (Recommendations)!
Use screw S2 to adjust the lower edge of the backrest relative to the wall.
It can be used for both 90° installation and angled positions, as sauna walls may be slightly curved.
Do not fully drive in the 40 mm countersunk screw, as the wall thickness is also 40 mm.
Install the bench backrest(s)!
Repeat these steps on the other side as well!

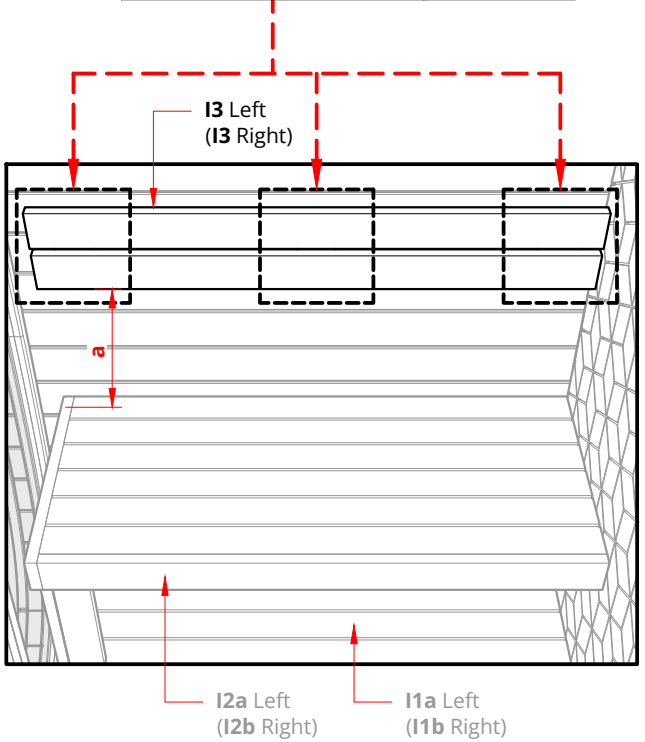
BLACK Cube SERIES

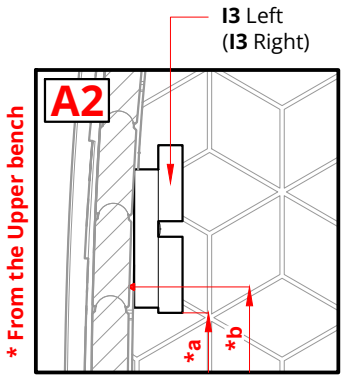












Dimensions and measurements		
*a	360 mm	~ 1'-2 3/16"
*b	~390 mm	~ 1'-3 3/8"
c	30 mm	~ 0'-1 3/16"

***Recommended!!!**