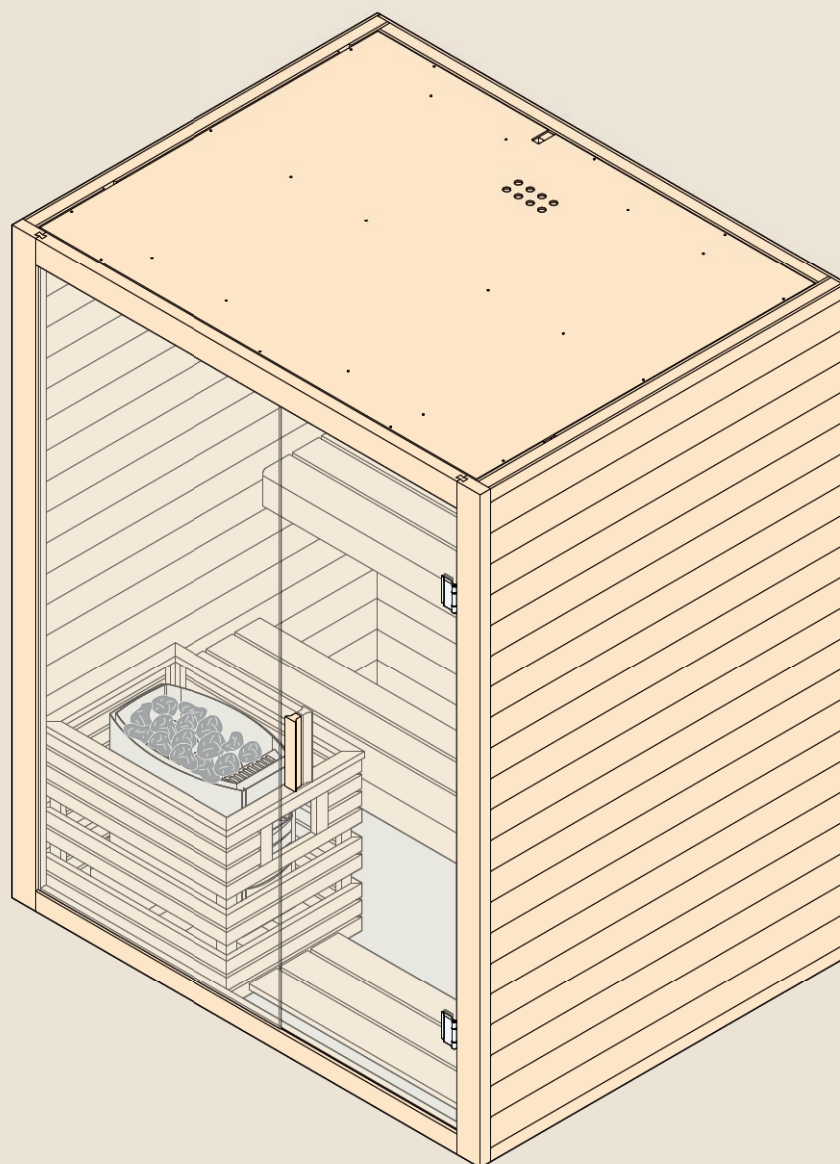




CALA

Installation, operation & maintenance manual



Dear Customer, Thank you for purchasing an ORANS sauna. We hope you will be fully satisfied with your purchase. Please remember that this manual is an important document of reference and should be provided by the seller with the sauna. ORANS forbids the reproduction of any part of this manual. Each sauna is checked and tested thoroughly at our premises prior to delivery to ensure its correct working order and the absolute reliability of its safety devices. Should you require any further information or clarification, please contact your local dealer or contact our company directly.



TWO PEOPLE ARE NECESSARY!

It indicates a procedure for which two people are required. Otherwise, the product or other objects in the surroundings may be damaged.



INSTALLER FOR ELECTRICAL SUPPLIES

Technician specialised in installing the product in ordinary work conditions. He is competent for all the interventions concerning the electrical supplies such as registrations, maintenance and repairs. He is skilled for interventions in electrical boards or electrical outlets which are under power.

Electrical Sauna System compliance with:

CSA Std. C22.2 No. 164-18 - Electric sauna heating equipment

UL Std. No. 875 (14th edition) – Electric Dry-Bath Heaters

Some information or pictures in this manual may show details and spare parts which may be slightly different from the ones of your Sauna room: however, the primary information remains unchanged. Following our constant search for improvements, the Sauna room may show some changes which are not included in this manual.



ORANS refuses all responsibility for damages caused by an inappropriate use of the sauna. ORANS reserves the right to institute legal proceedings against those who make any changes to its Sauna room without previous written authorisation.

PROCEDURE:

The installation must be done by qualified people based on the information given in this manual and in accordance with national regulations and standards.

Upstream of the electrical power system, you must install a CLASS "A" GROUND FAULT CIRCUIT INTERRUPTER. Check that the flooring is flat and even.

SAFETY WARNINGS



The equipment must not be used by children under the age of 8 and by people with reduced physical, sensorial or mental capabilities or those lacking the necessary experience or knowledge, other than under supervision, or if they have been given instructions for the safe use of the equipment and therefore understand the risks involved in its use. Children must not play with the appliance. Cleaning and maintenance intended to be carried out by the user must not be carried out by children without supervision. Care should be taken when using the appliance due to the hot temperature.



The sauna must not be used by children under the age of three, anyone with heart disorders, internal inflammation, epilepsy or people with a pacemaker.



Sauna heaters must not be subjected to water spray and shower heads must not be installed above the sauna heaters.



CAUTION: AVOID A FIRE, DO NOT PLACE COMBUSTIBLE MATERIAL ON THE SAUNA HEATER.



CAUTION: USE ONLY A CONTACTOR APPROVED FOR 250,000 ENDURANCE CYCLES.



The door of the heated room should not include any locking or latching system. Its malfunction could cause entrapment inside the room.



It is always advisable to consult your own doctor before using the sauna. "Hyperthermia" occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 37 °C. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness, and fainting. The effects of hyperthermia include:

- a) Failure to perceive heat;
- b) Failure to recognize the need to exit the room;
- c) Unawareness of impending hazard;
- d) Fetal damage in pregnant women;
- e) Physical inability to exit the room;
- f) Unconsciousness.

WARNING– The use of alcohol, drugs, or medication may greatly increase the risk of atal hyperthermia.



Children over the age of three may use the sauna only under the supervision of an adult and after seeking medical advice.



Any use of the home spa for purposes other than those expressly prescribed is strictly prohibited.



Do not remove the adhesive labels affixed to the internal surfaces of the units, for any reason. If they deteriorate, request replacements.



Users must be fully informed about how to use it.



Read this manual carefully before using the sauna.



Pay careful attention to the hazard warnings and safety standards issued by the authorities in each country.



When this heater is not installed for use with an attendant or is controlled by remote with APP, a timed-cutoff switch must be connected in the input circuit to disconnect all ungrounded conductors of the heater circuit from the supply source at the end of 1 hour of operation. The timed-cutoff switch must be located outside the heater room, or mounted on a wall or door inside the heater room. The time feature of the switch must not lend itself to being overridden.

All measurements are in mm.

UNPACKING

IMPORTANT. After removing the packaging, check that all the items and materials are complete and undamaged. If damage has been caused during transport, the carrier must be notified within the legal period so as not to forfeit the insurance cover.

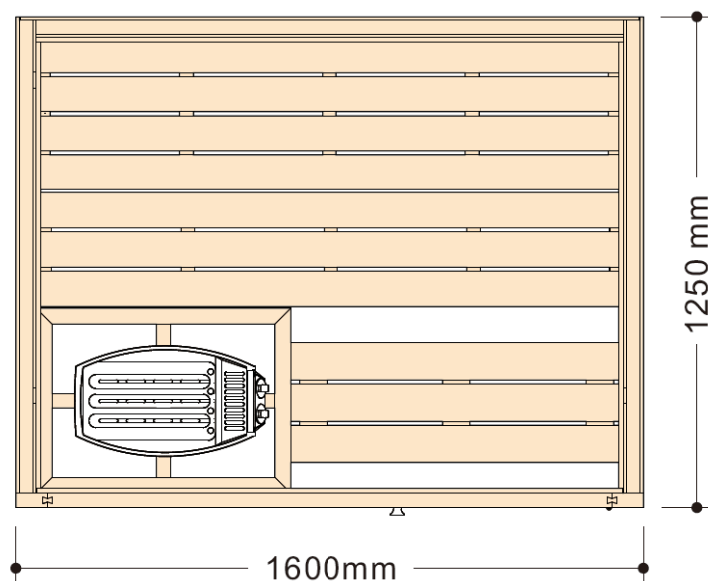
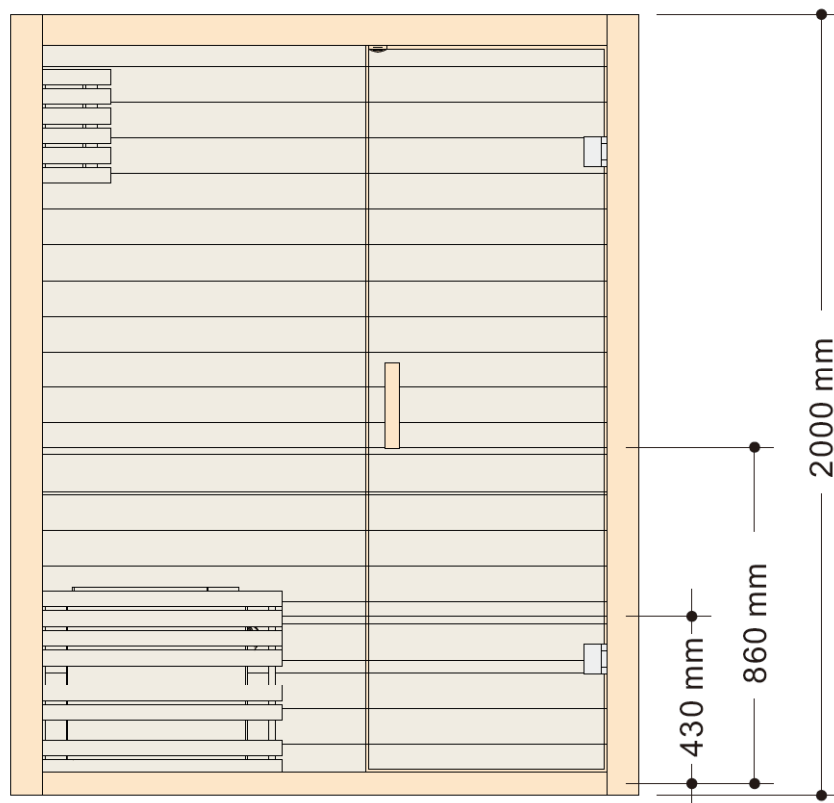
Sauna Room Hygiene

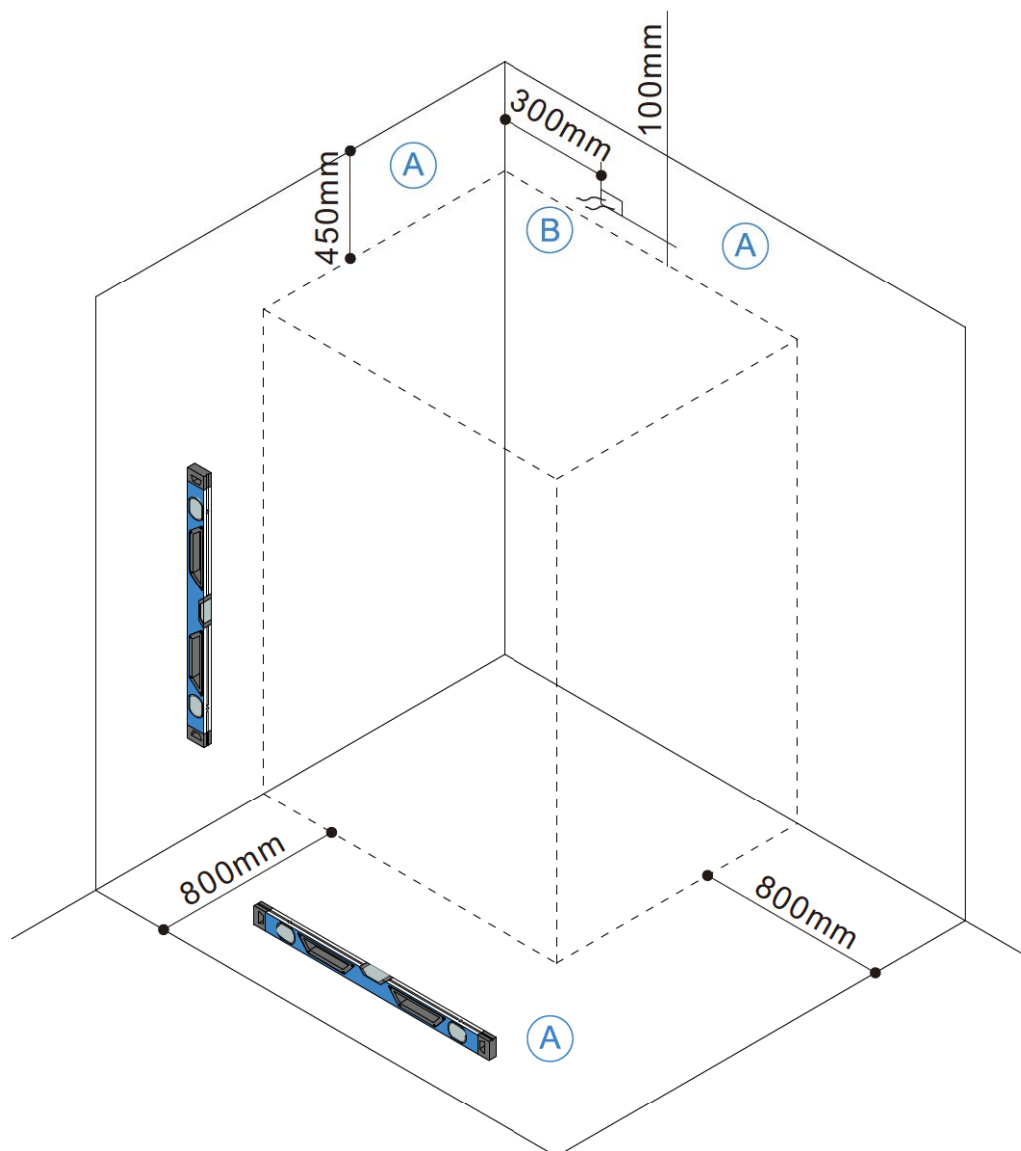
Each time the sauna is used, we recommend cleaning both the slatted floor boards and the benches that have been used so as to guarantee, among other things, correct hygiene of the product.

The wooden surfaces of the sauna must never be chemically treated, not even with common varnish or paint, since it would negatively affect the natural characteristics of the wood and on the one hand would make the sauna totally ineffective and on the other would give rise to risk of severe burns to the body.

Clean the sauna cabin with a wet cotton cloth and dry it with a clean, dry cloth. Regular cleaning ensures the long life of the sauna. NO complaints are accepted in respect of certain natural imperfections in the wood such as slight colour tone variations or small cracks or splits.

1600x1250x2000(mm)





- Ⓐ Space required around the sauna for easy assembly. If a smaller area is available, please contact the manufacturer.
- Ⓑ Sauna power cable.

ELECTRICAL SAFETY:

ORANS saunas are manufactured and tested in compliance with European regulations to ensure the utmost safety for users.

ELECTRICAL CONNECTION:

The sauna must be connected to the power grid using a CLASS "A" GROUND FAULT CIRCUIT INTERRUPTER adequate for the power consumption of the product. The AC electrical connection must be:

- fixed;
- adequate for the current absorbed.

If the sauna is installed in a bathroom, the following requirements must be met:

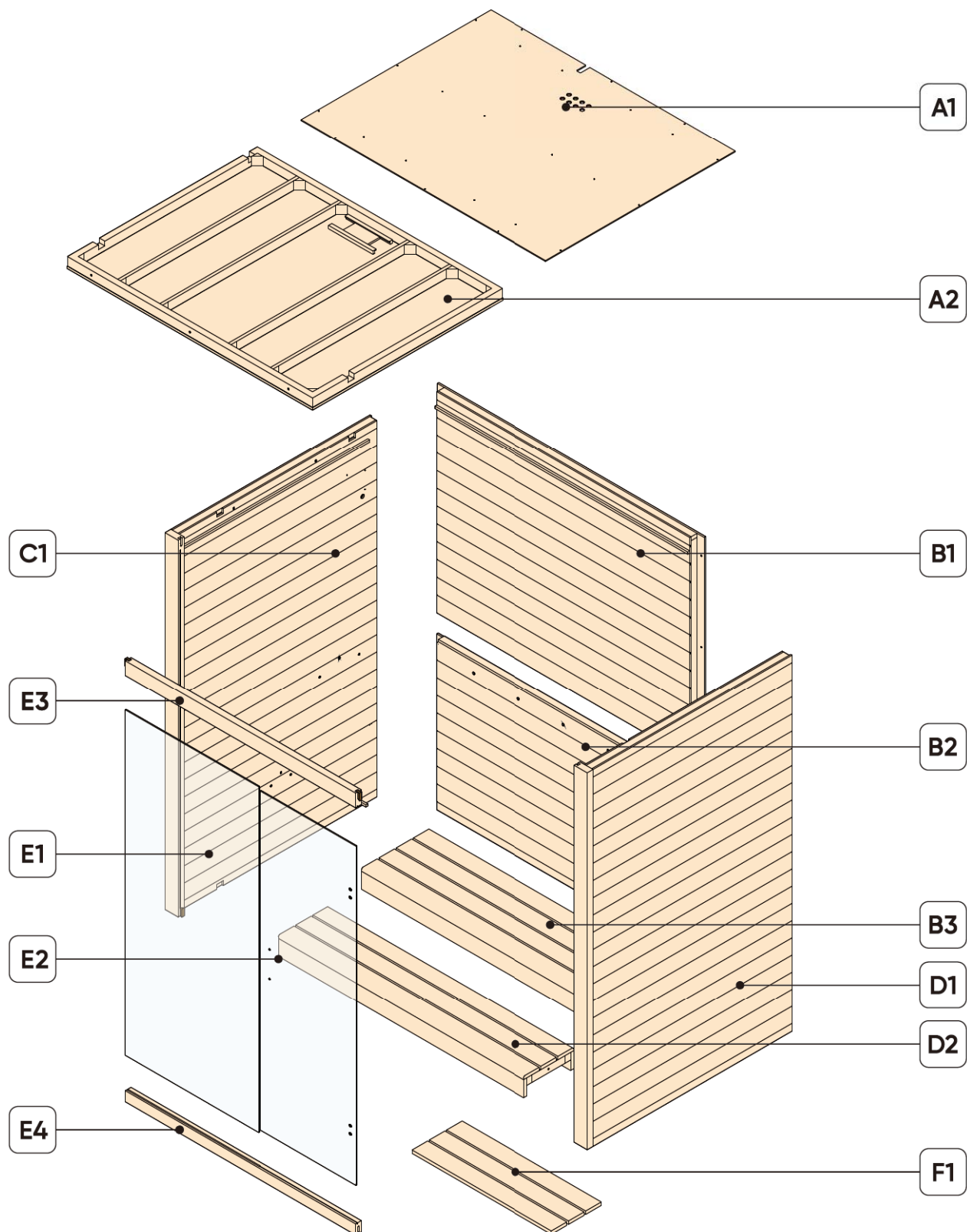
- the CLASS "A" GROUND FAULT CIRCUIT INTERRUPTER must be placed outside the wet zone.
- the AC electric connection must be protected from water.

In any case, always comply with the requirements of the national regulations with regards to the position of the electrical elements.

N.B.

The product must be installed in an area with finished floors and walls.

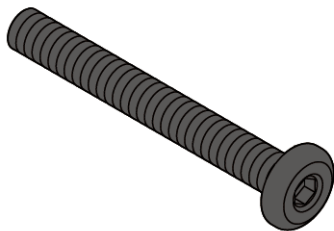
Technical specifications				
Model	Power (kW)	Min.cross-section of elec.conductors (mm ²)	Electric intensity (A)	Voltage (V)
CALA	6.0	4.0	27	220–240 Vac 1N 50–60 Hz



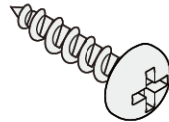
Parts List

The parts below are numbered with the letter corresponding to their elements (wood panels)

A3	27 Pcs.	A4	18 Pcs.	B4	12 Pcs.
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M6*50

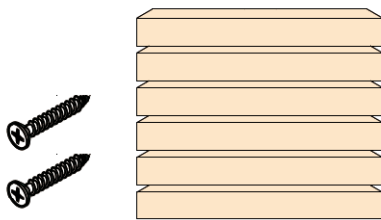


ST 4*15

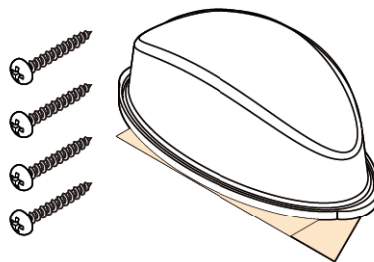


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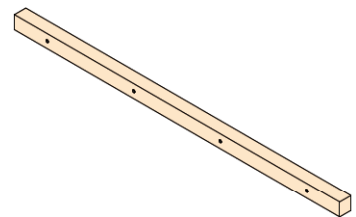
B5	1 Pcs.	B6	1 Pcs.	B7	1 Pcs.
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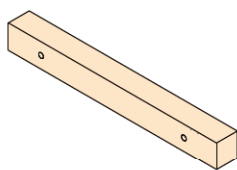
ST 4*25



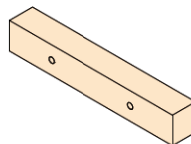
L=1200mm



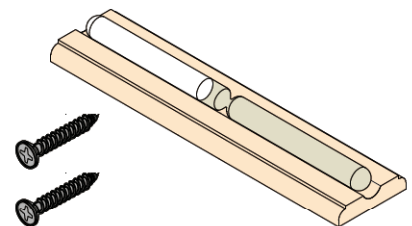
C2	2 Pcs.	C3	2 Pcs.	D3	1 Pcs.
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L=350mm

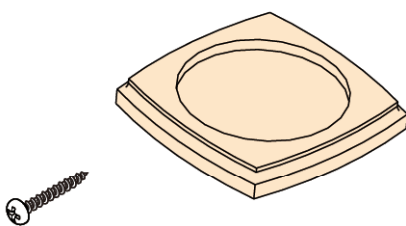


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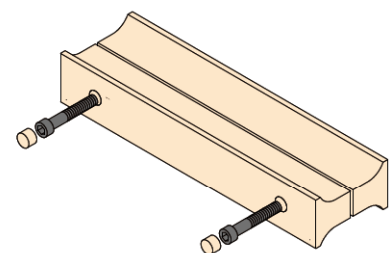
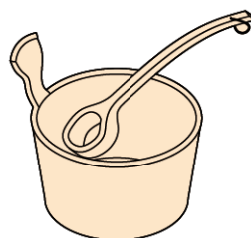


ST4*25

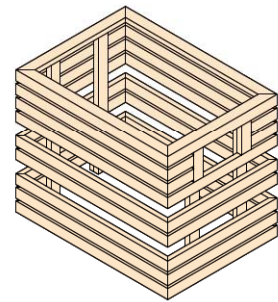
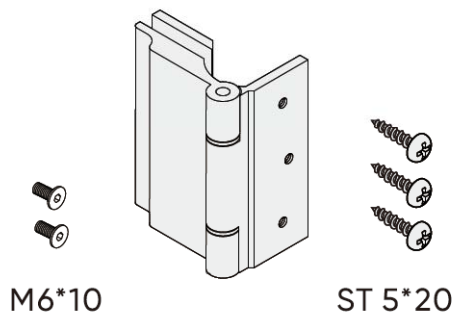
D4	1 Pcs.	D5	1 Pcs.	E5	1 Pcs.
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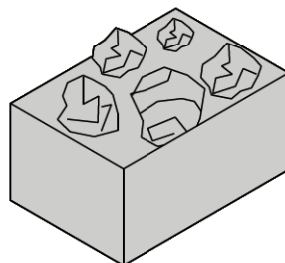
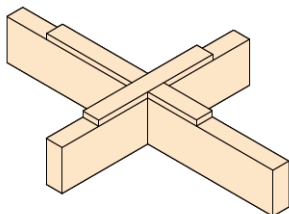
ST4*25



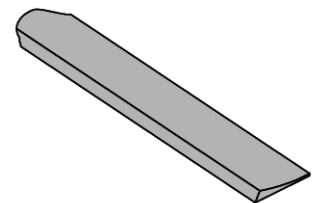
E6	2 Pcs.	F2	1 Pcs.	F3	1 Pcs.
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F4	1 Pcs.	F5	1 Pcs.	E7	1 Pcs.
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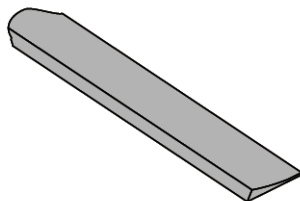


20 KG

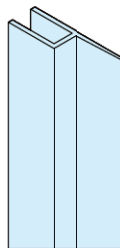


L=1850mm

E8	2 Pcs.	E9	1 Pcs.
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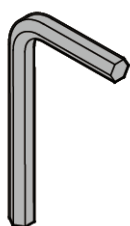
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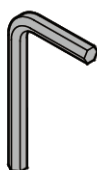
L=1850mm

Product installation tools

a	1 Pcs.	b	1 Pcs.	c	1 Pcs.	d	1 Pcs.
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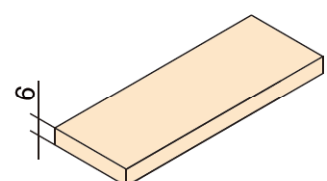
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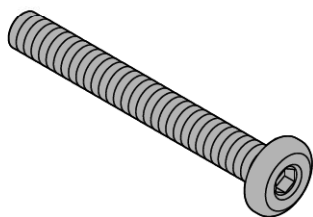
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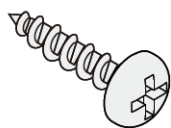
H4



Spare parts



M6*50
2 Pcs

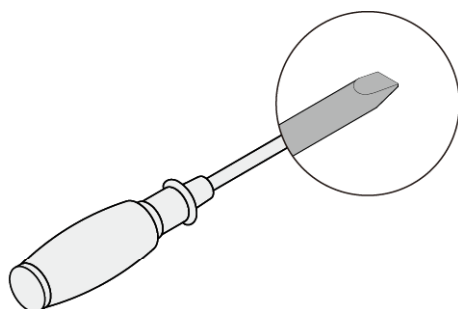
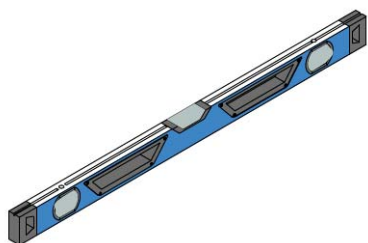
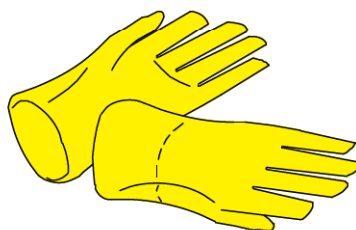


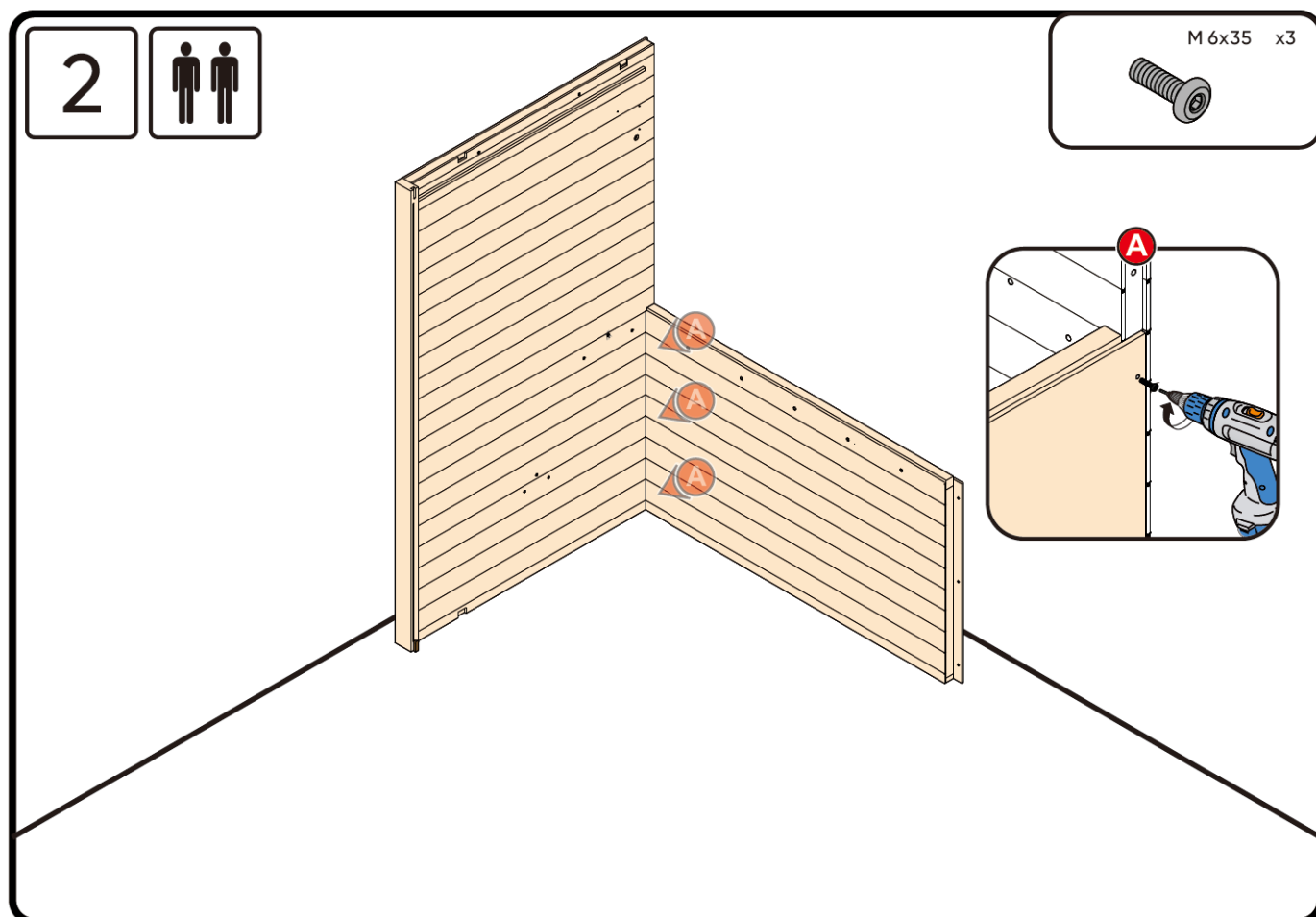
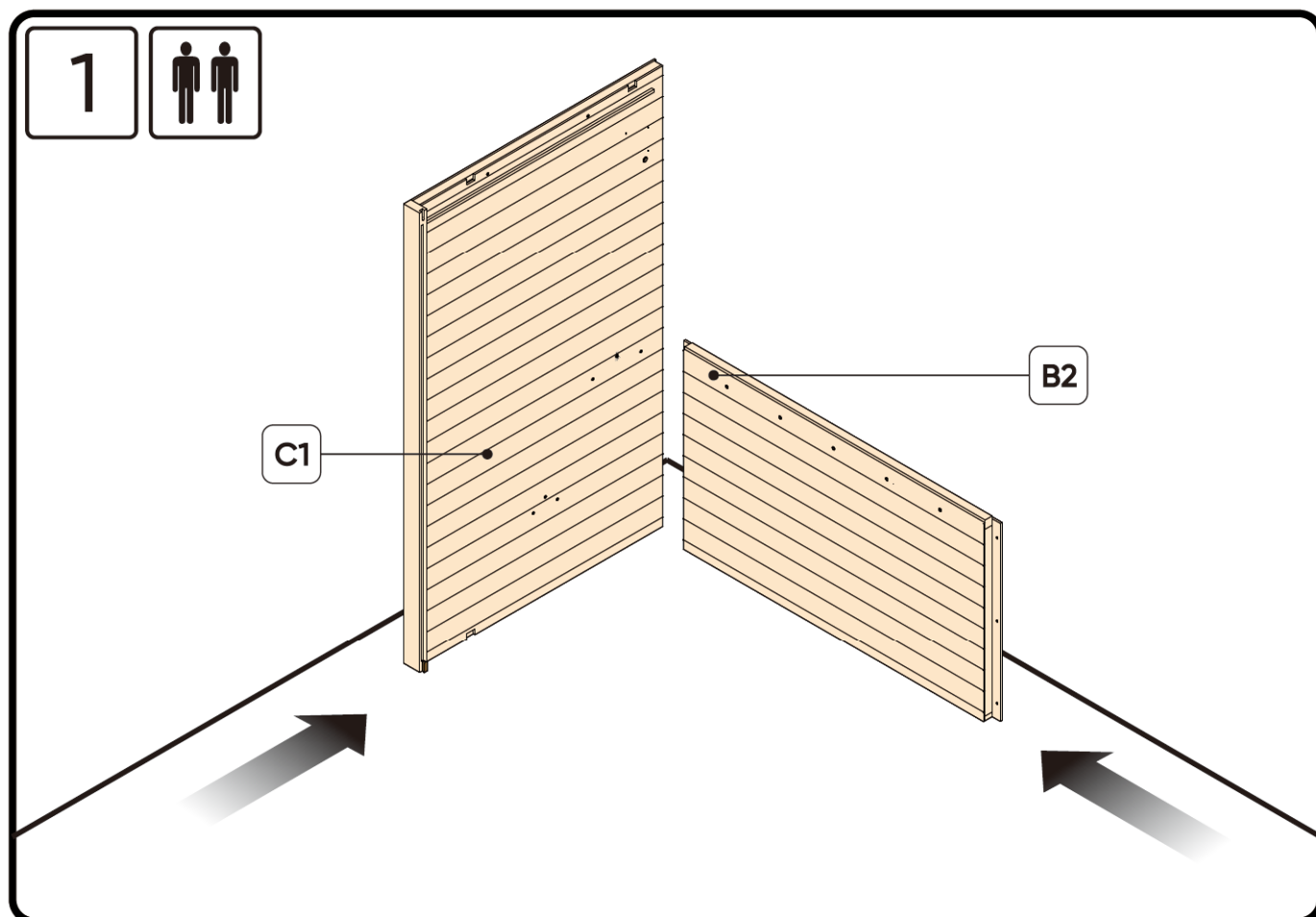
ST 4*15
2 Pcs

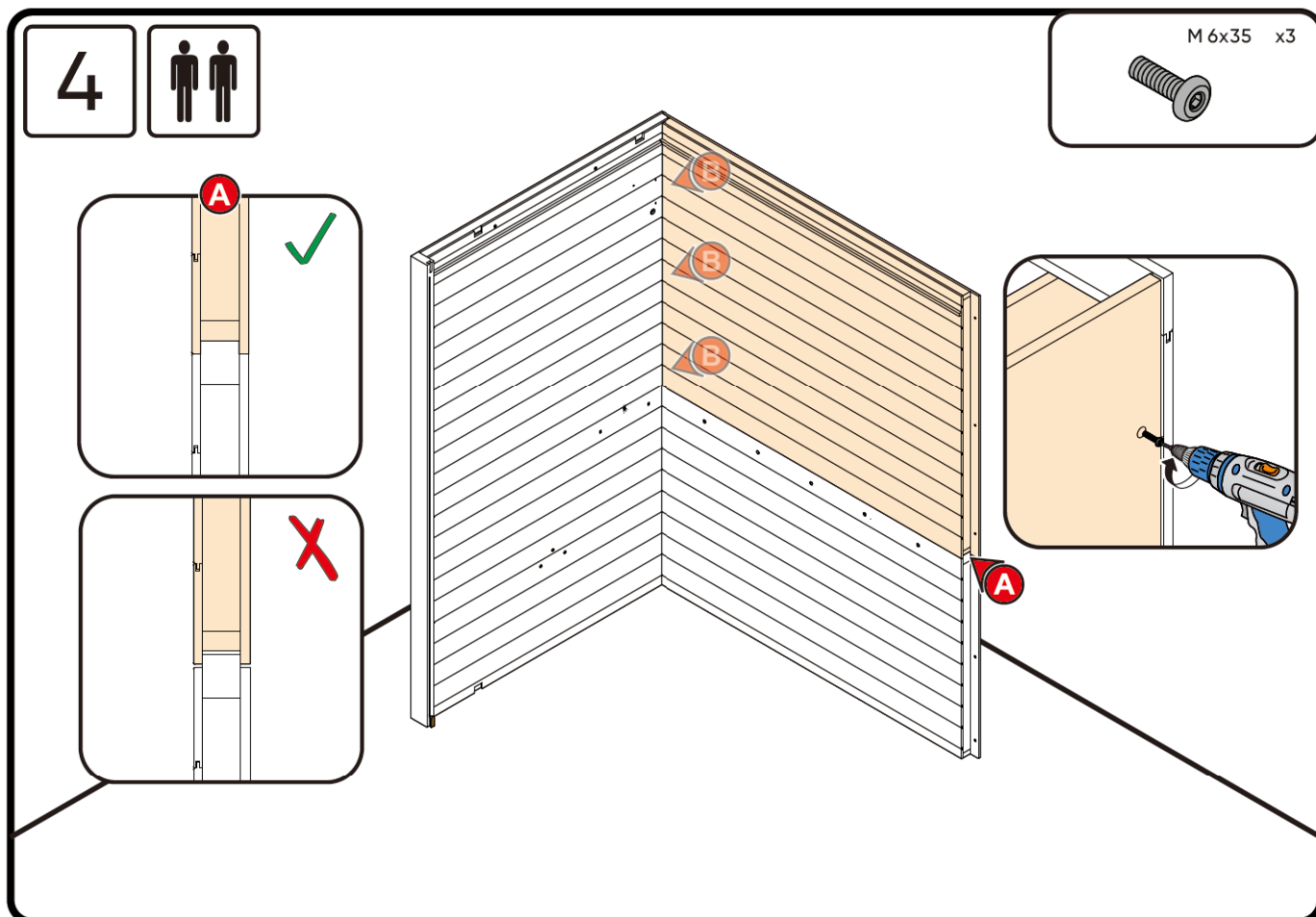
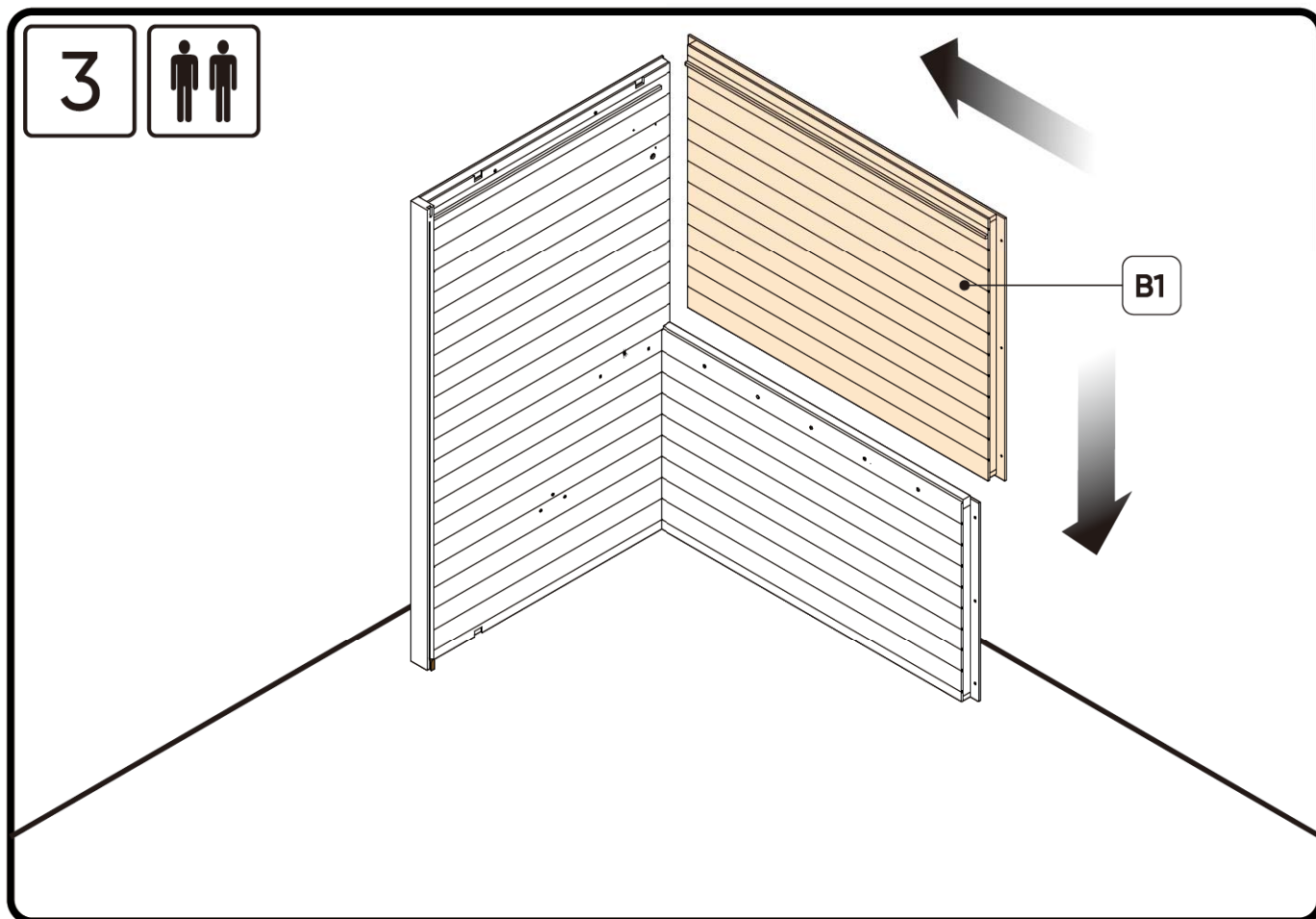


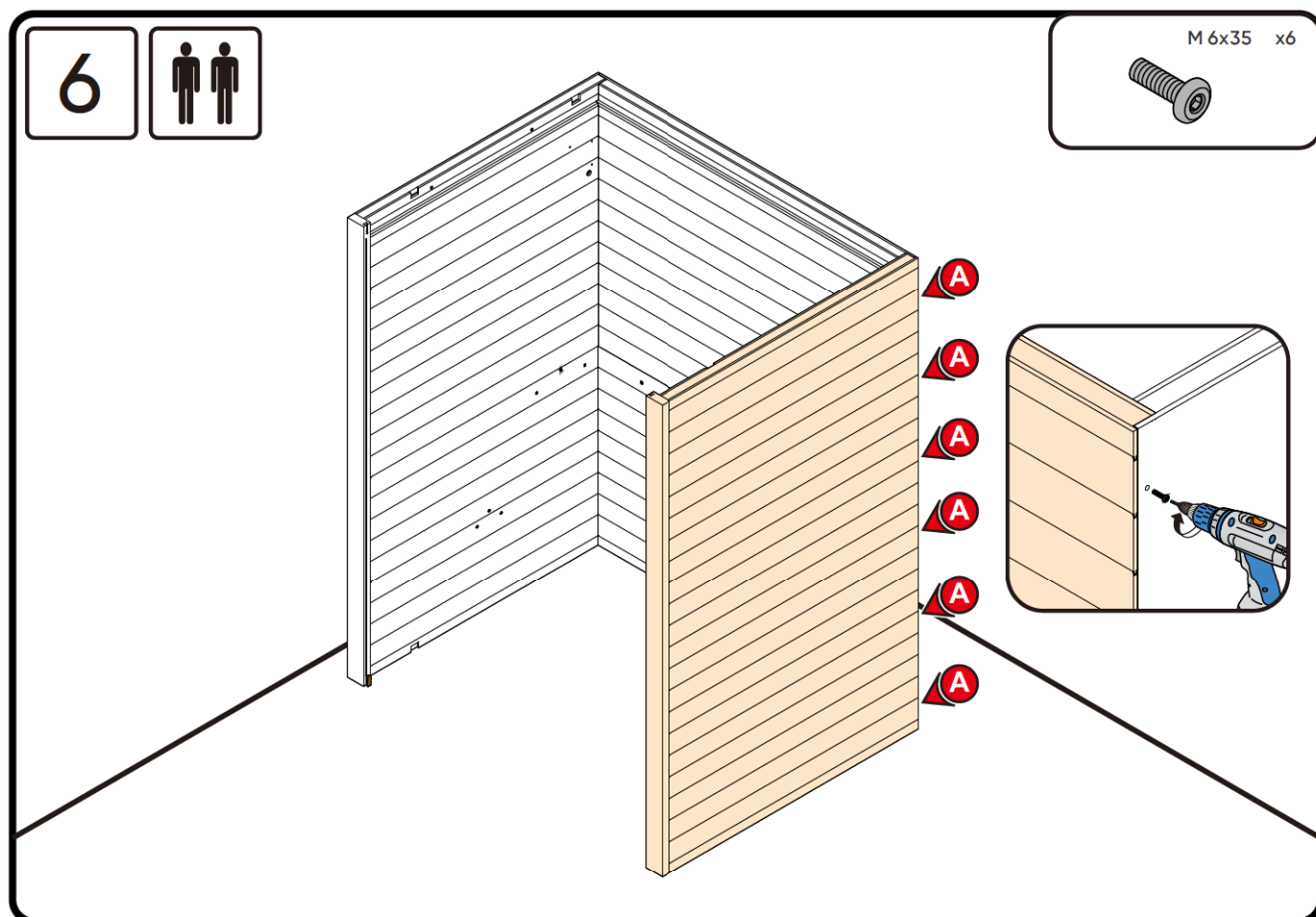
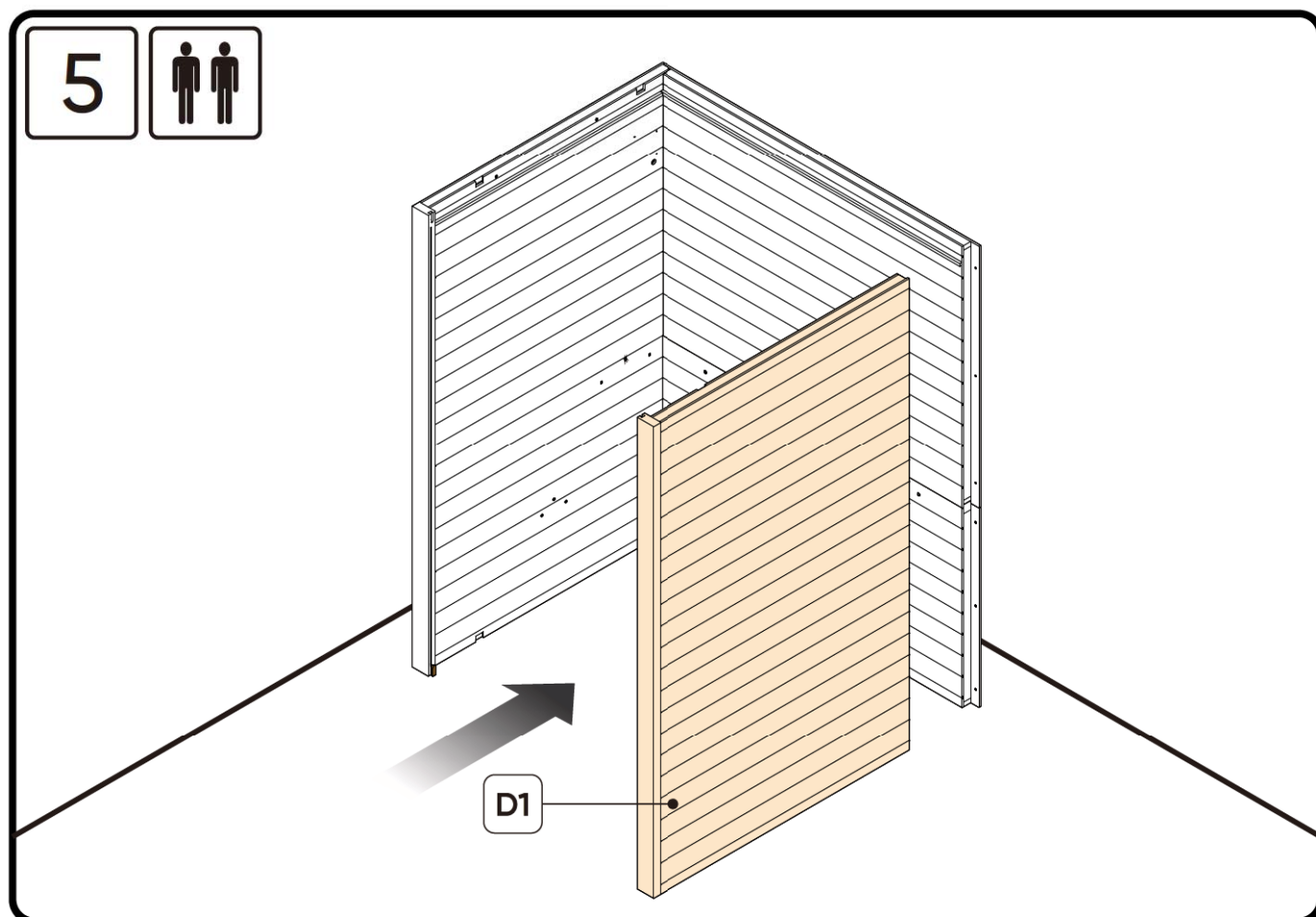
M6*35
2 Pcs

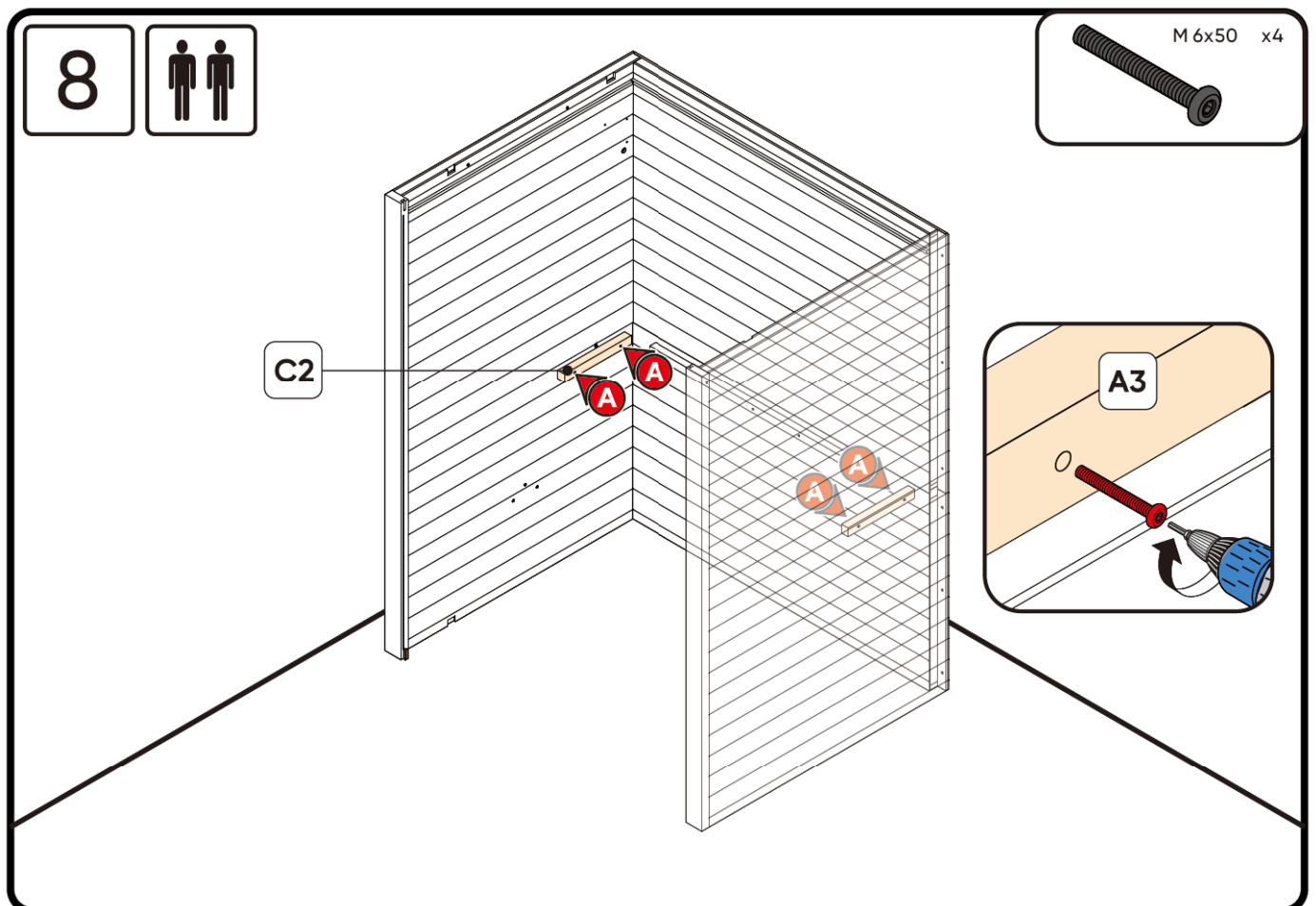
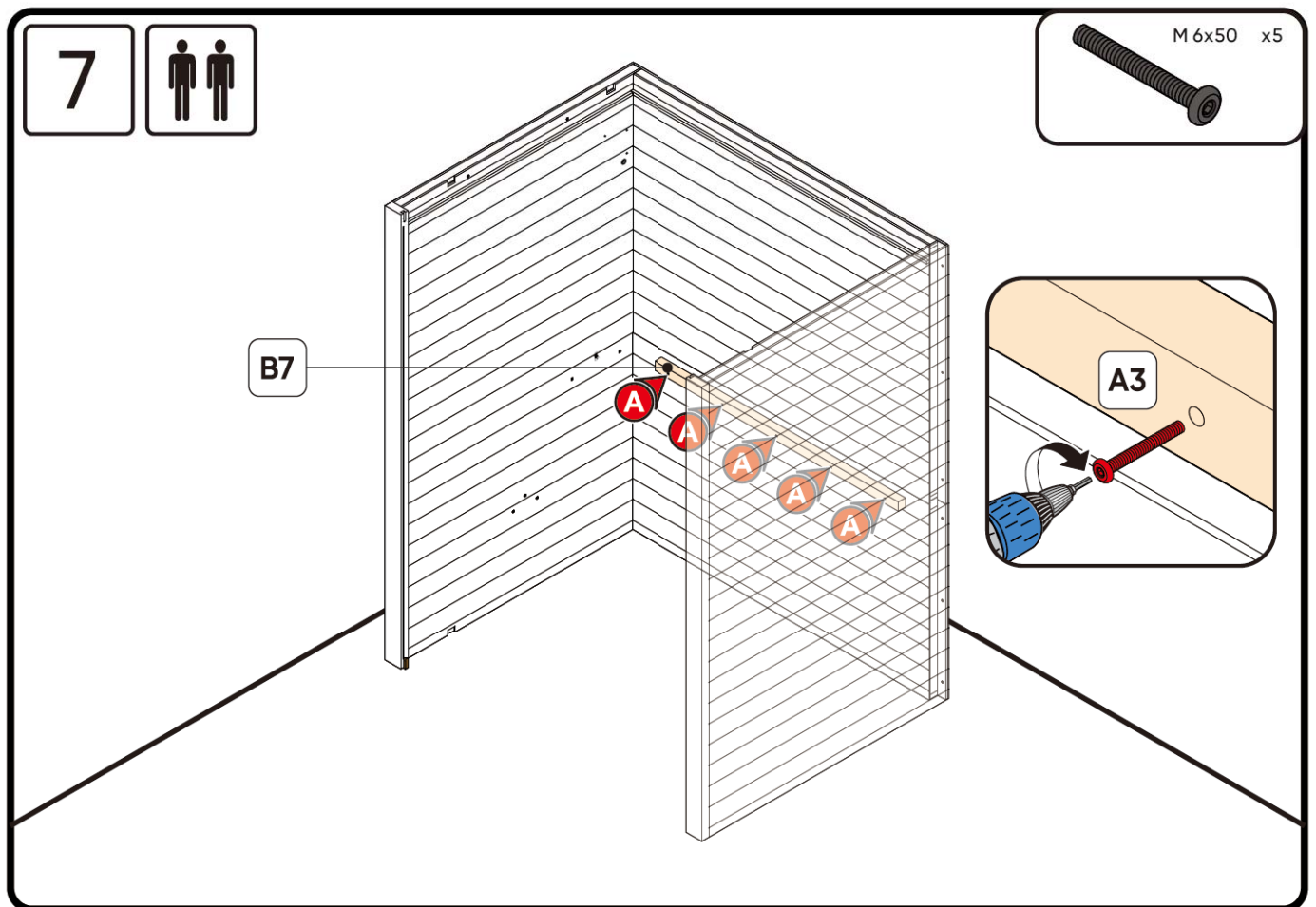
Tools required for installation(not supplied)

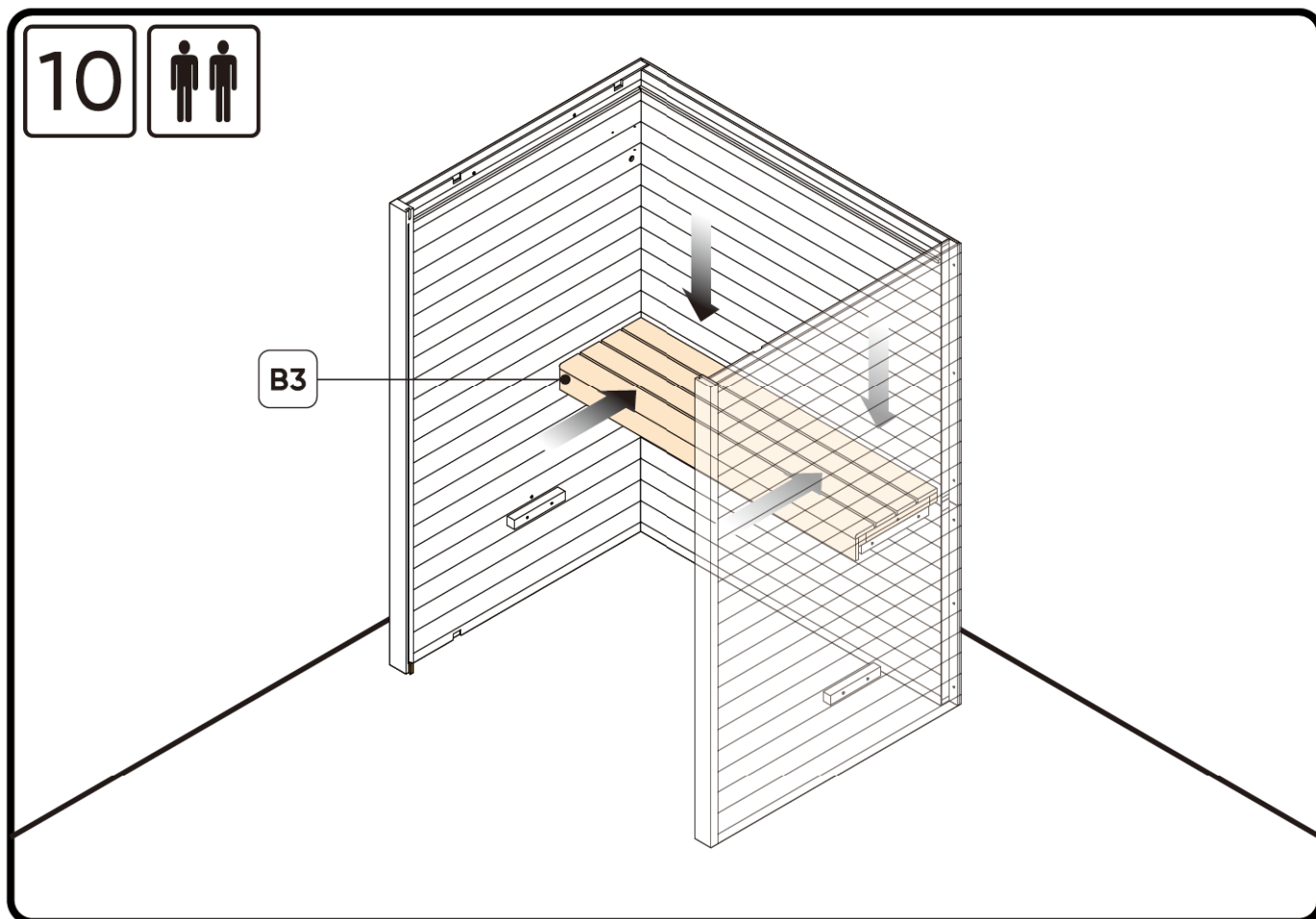
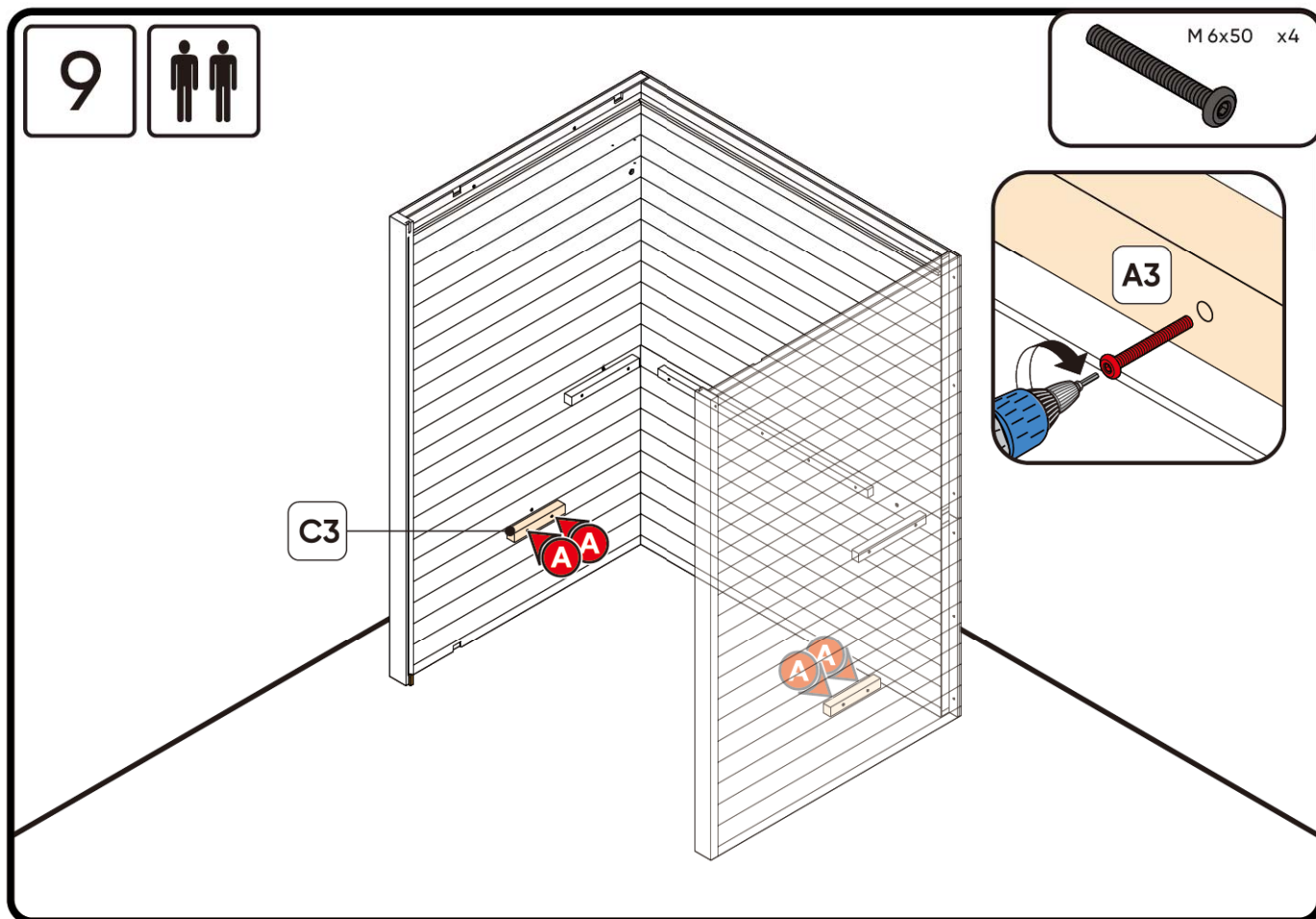




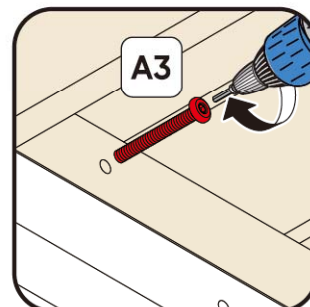
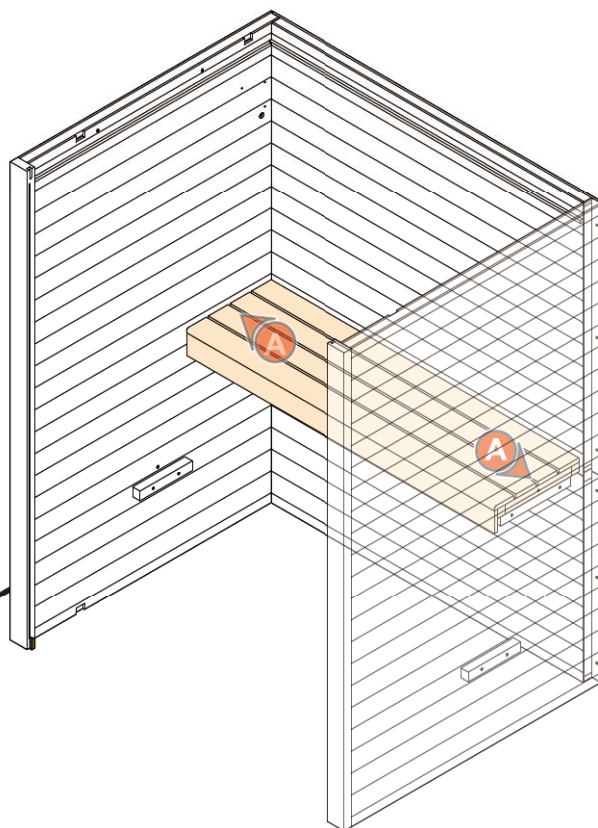




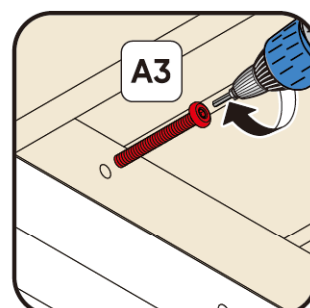
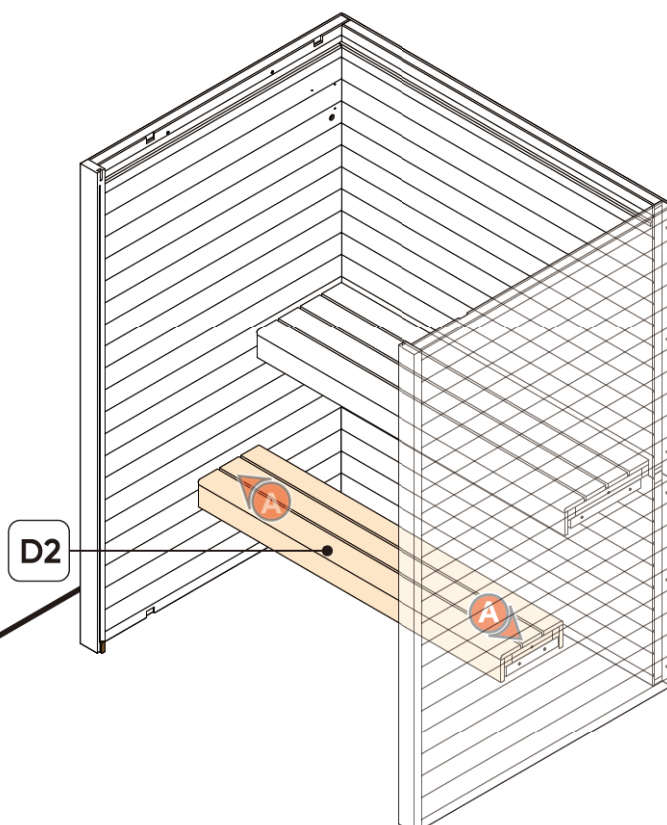




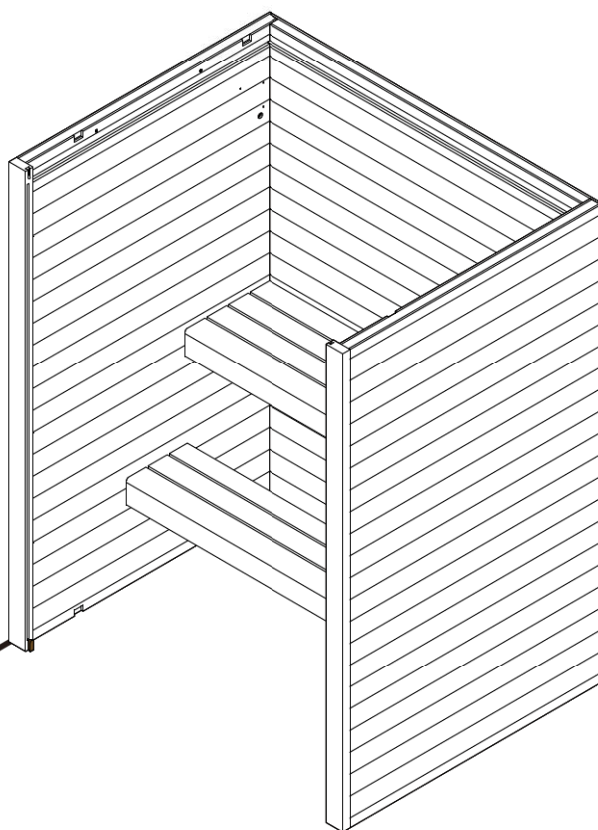
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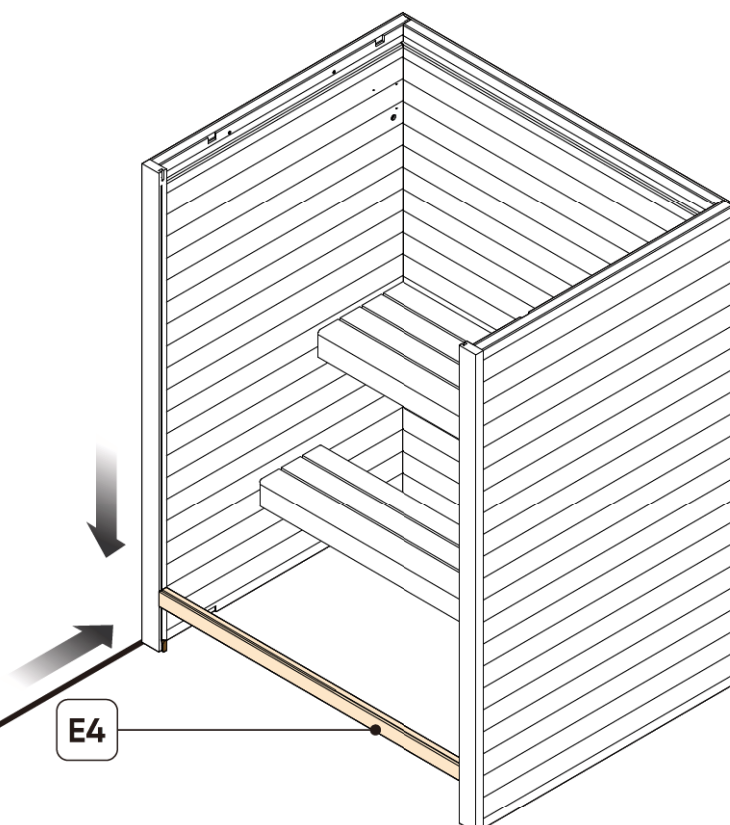
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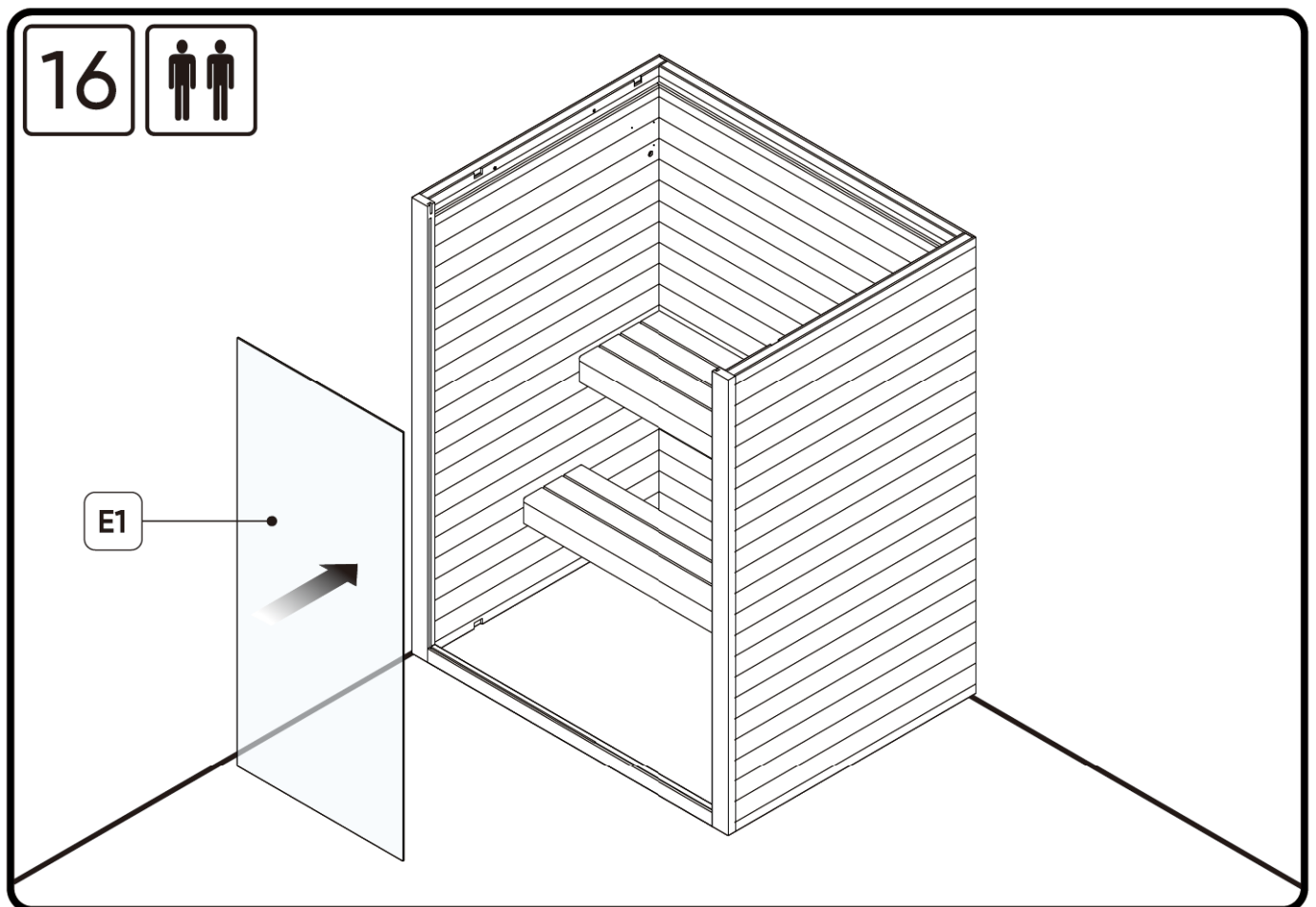
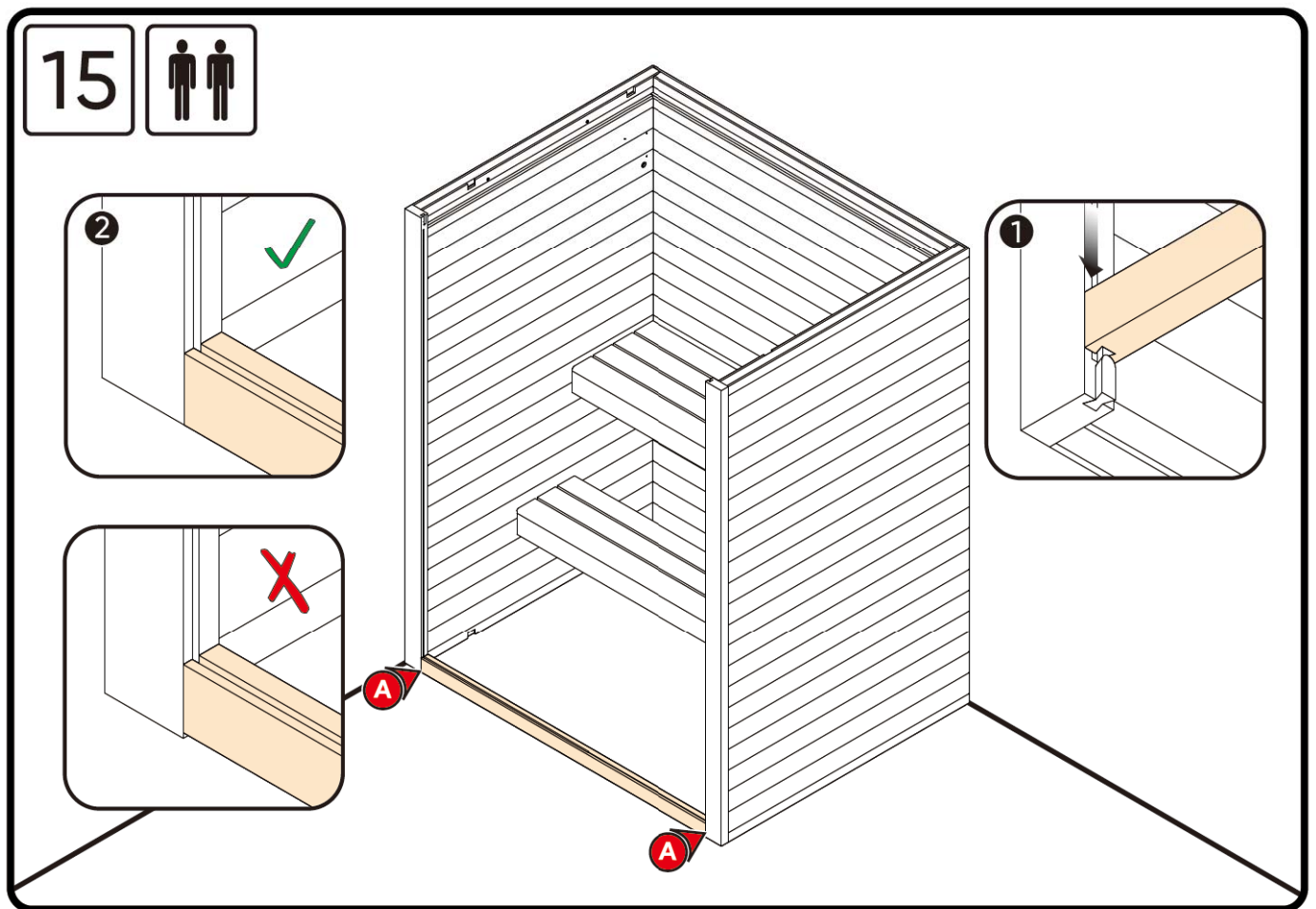


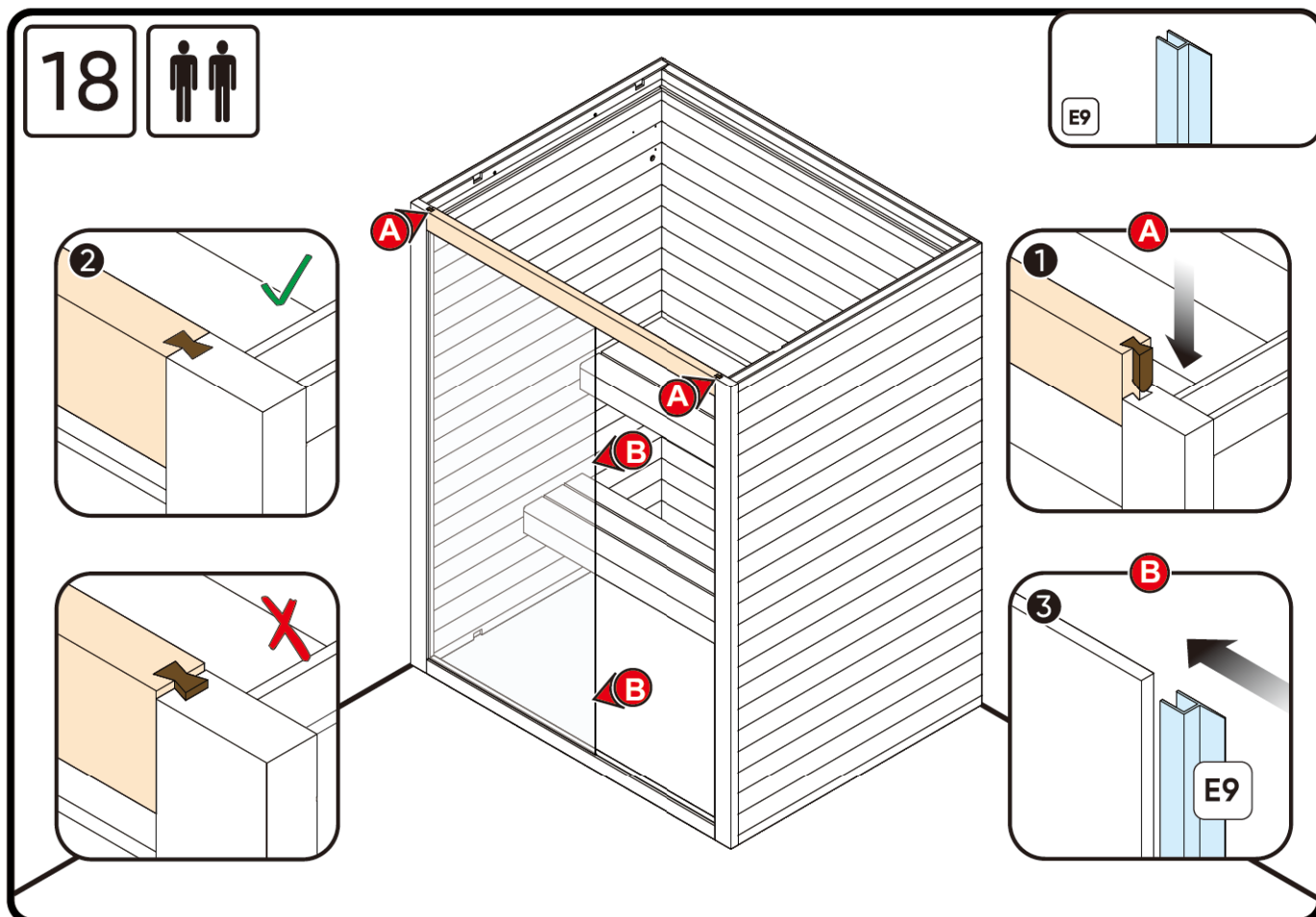
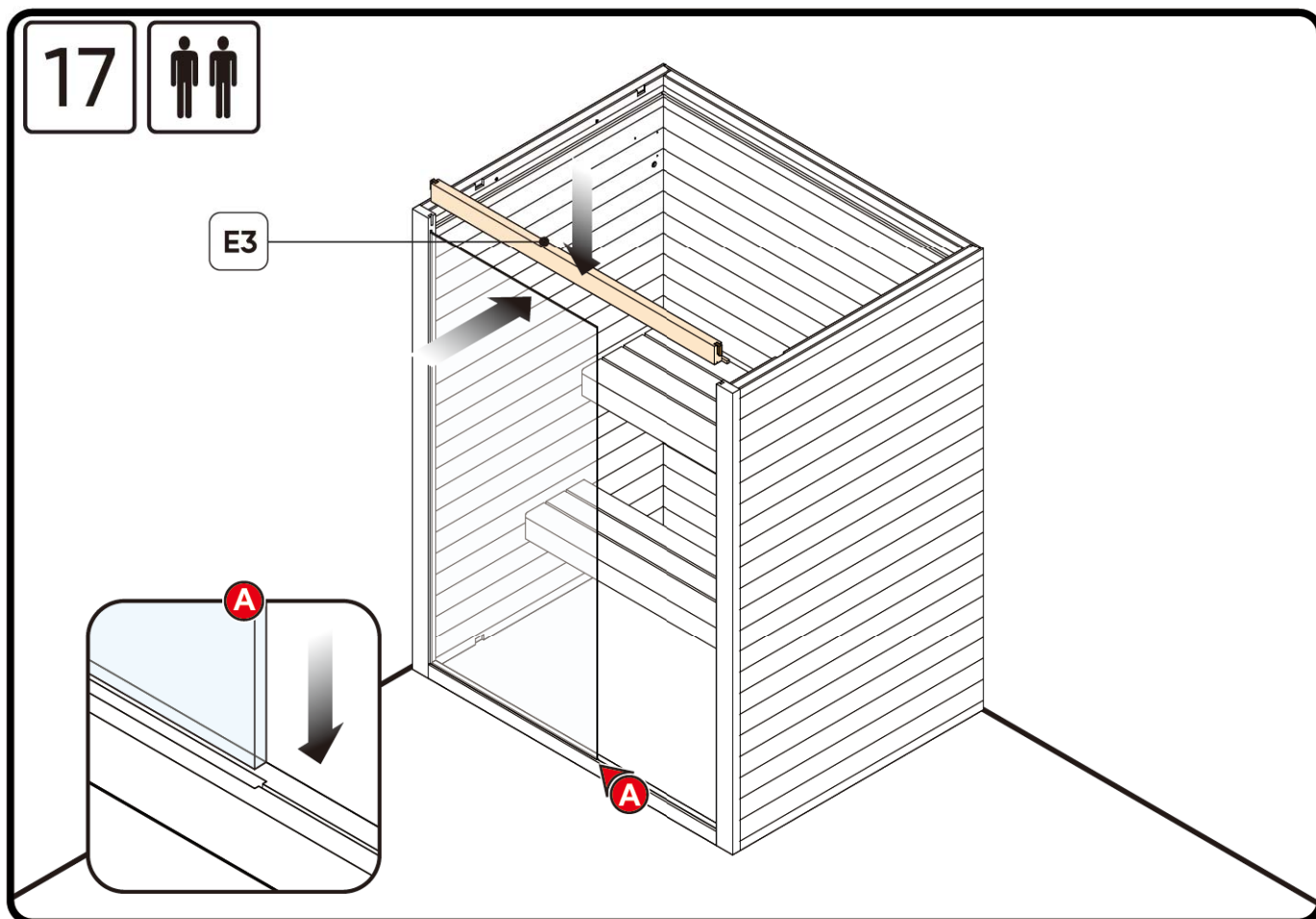
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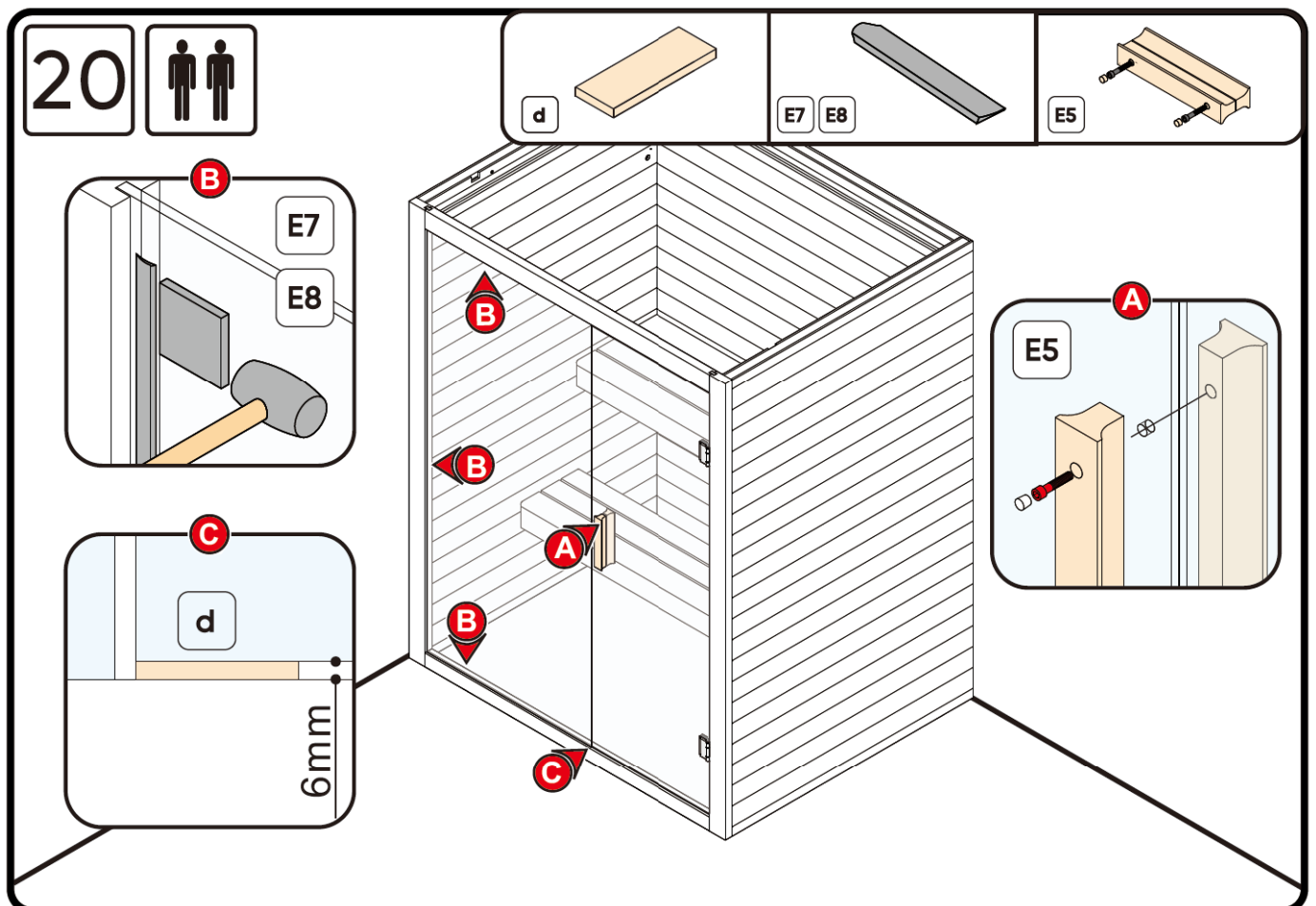
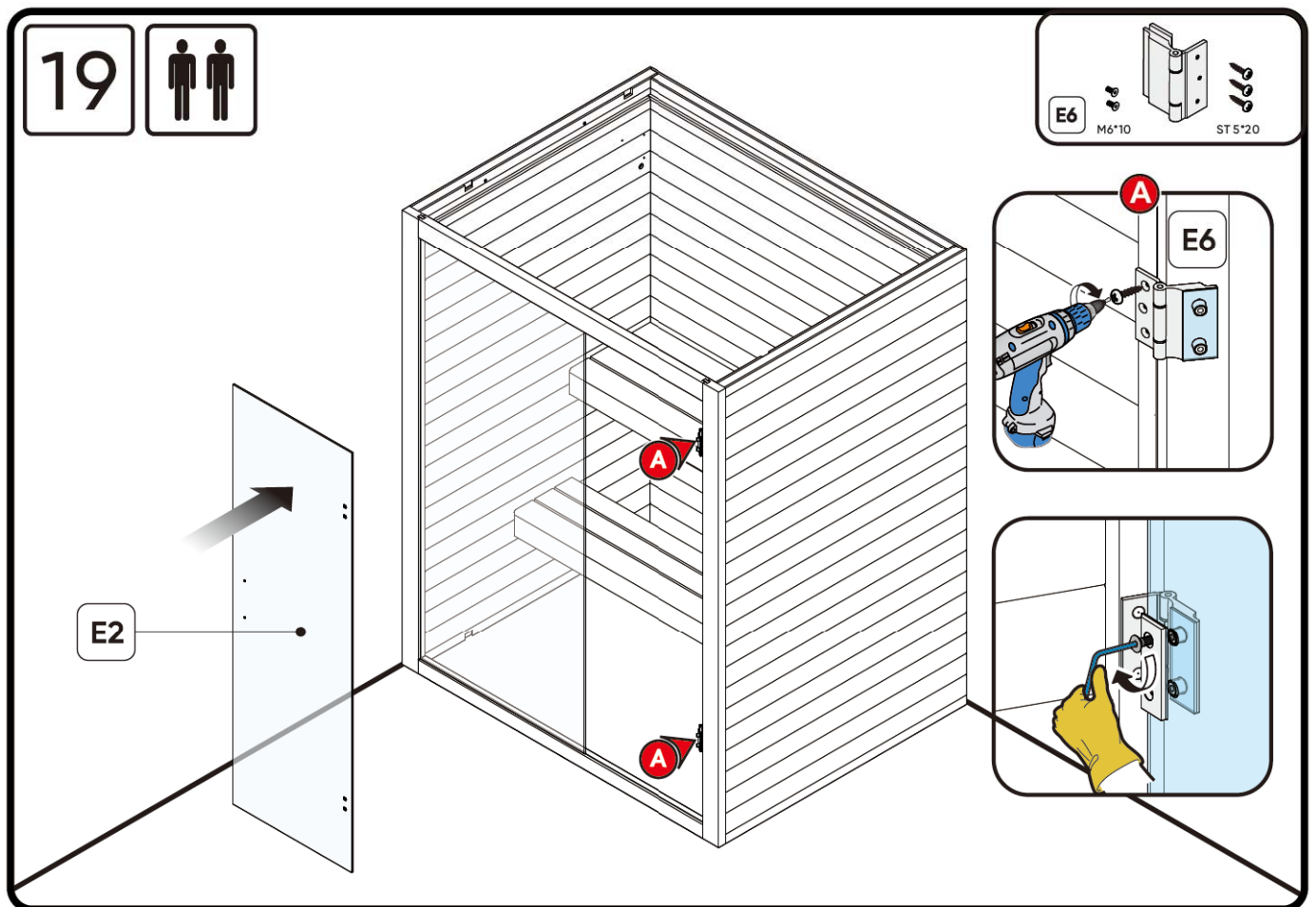


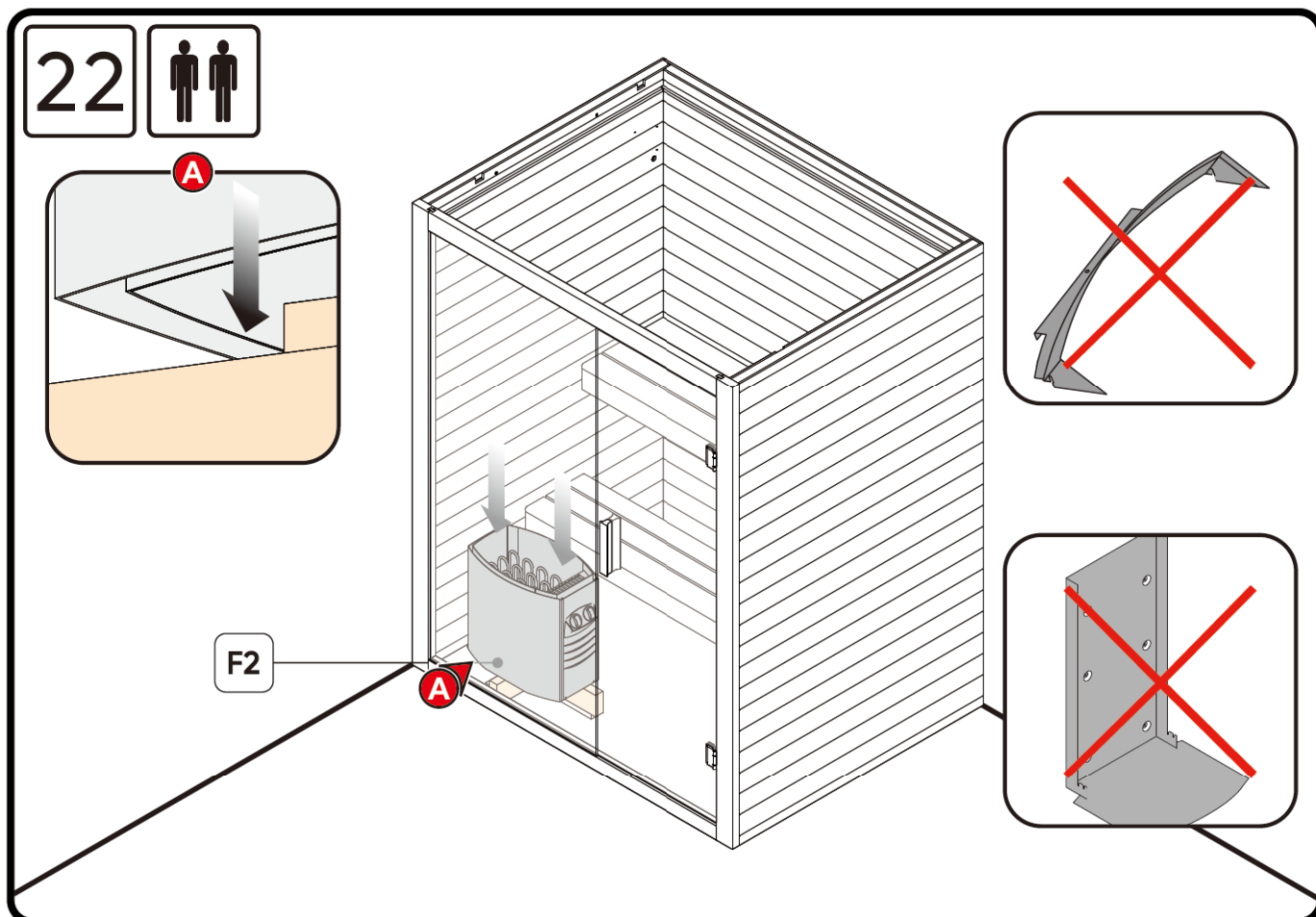
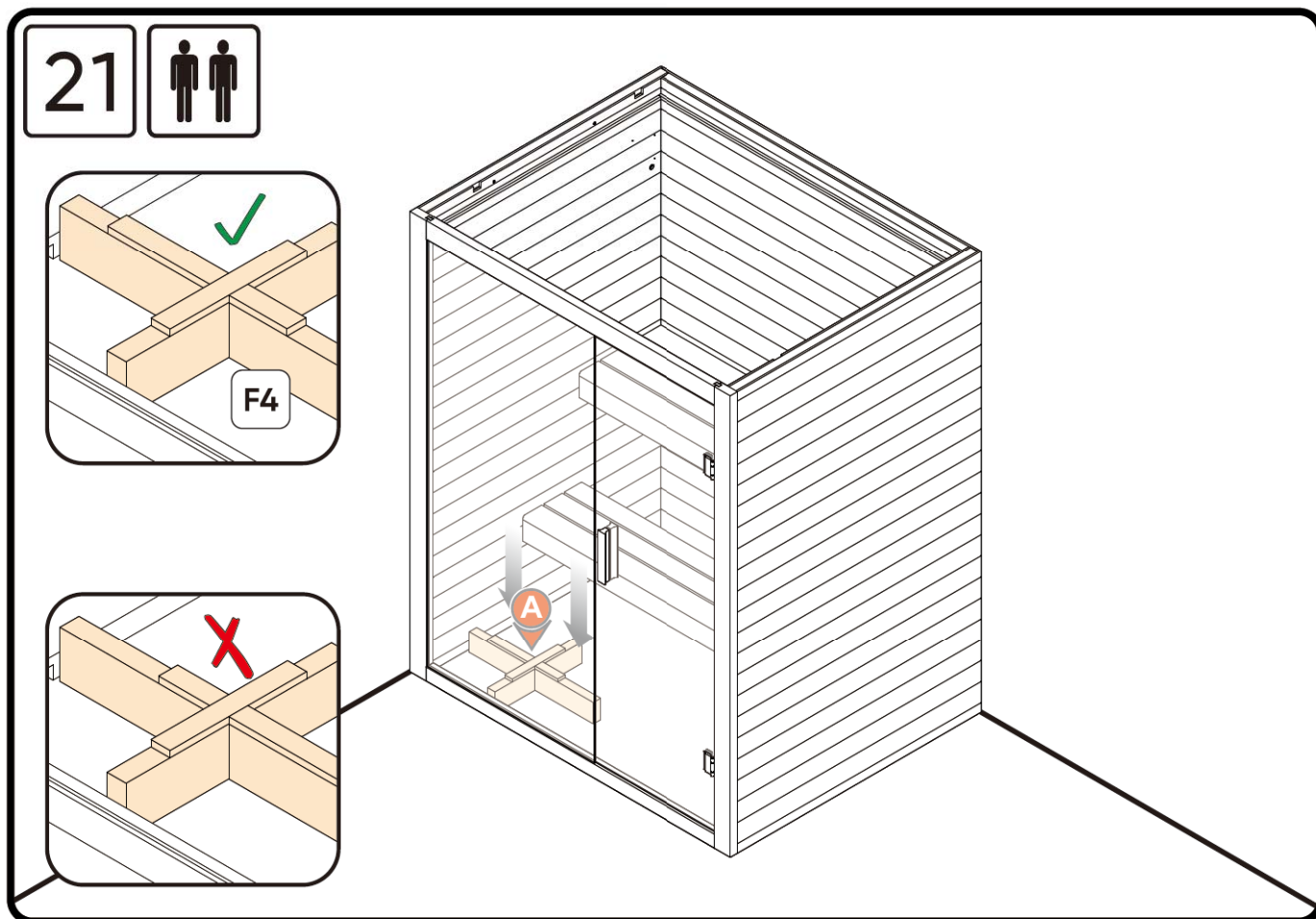
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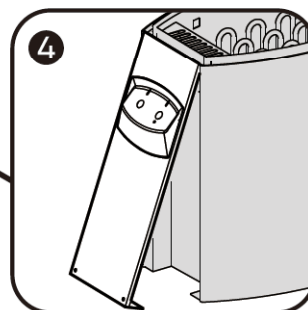
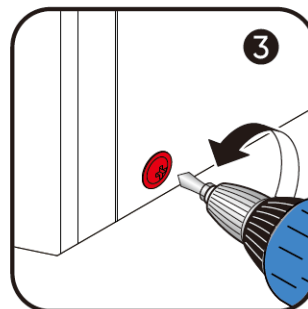
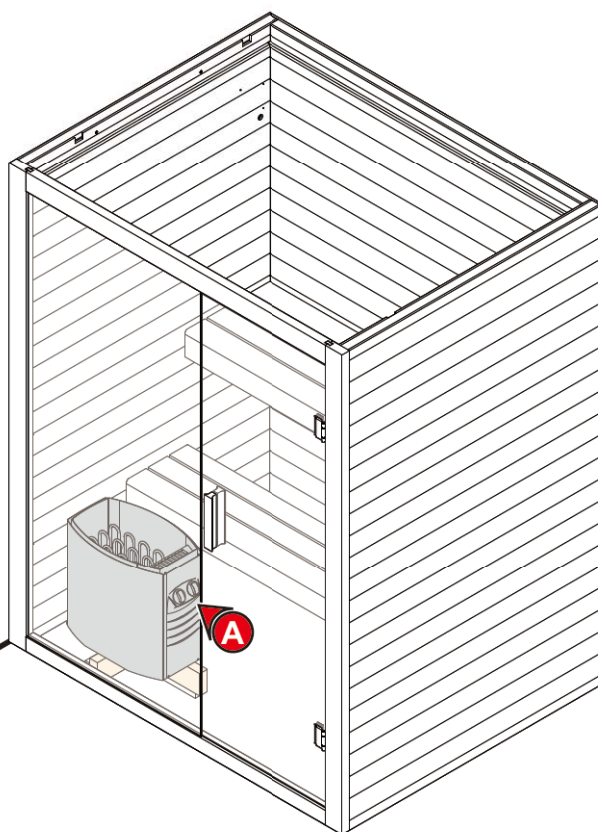
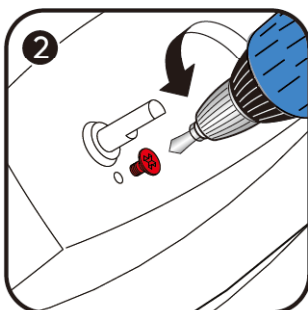
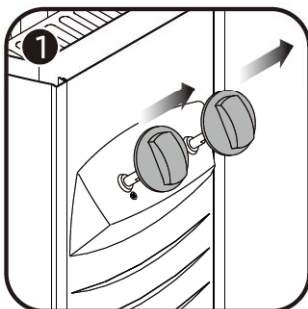




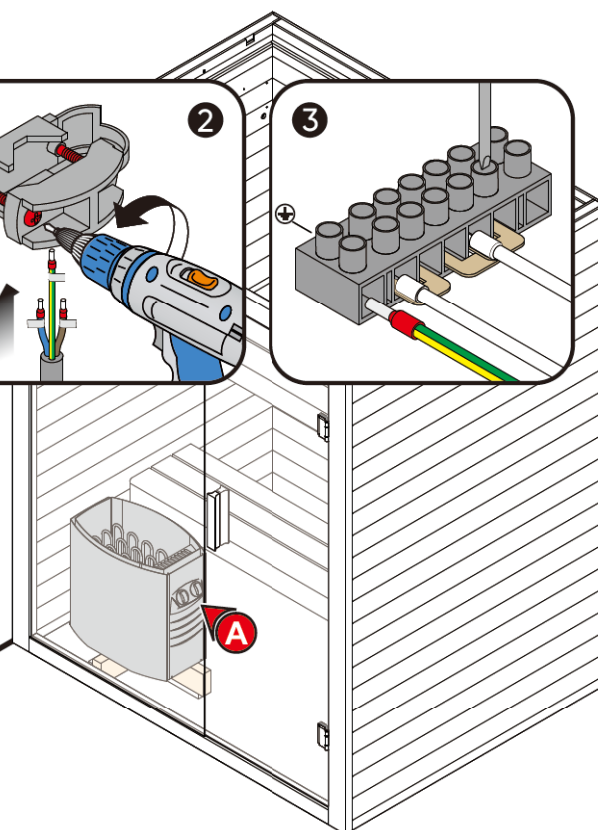
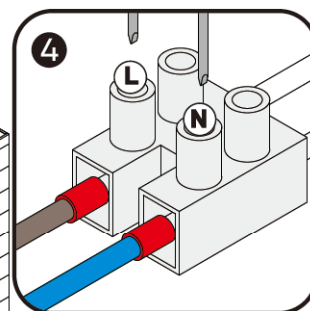
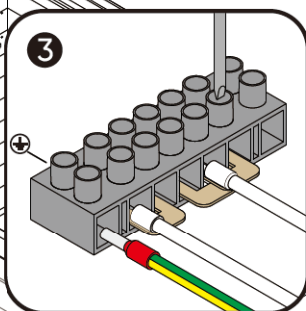
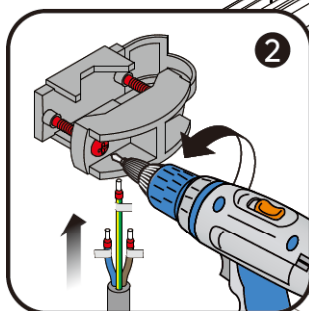
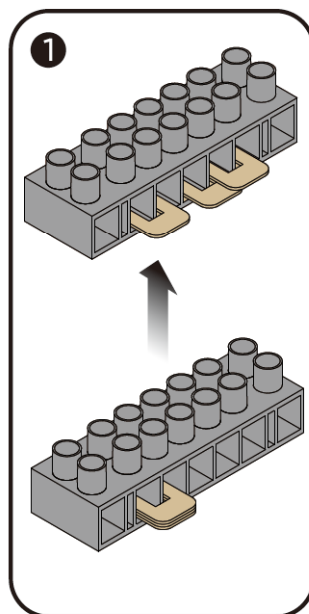


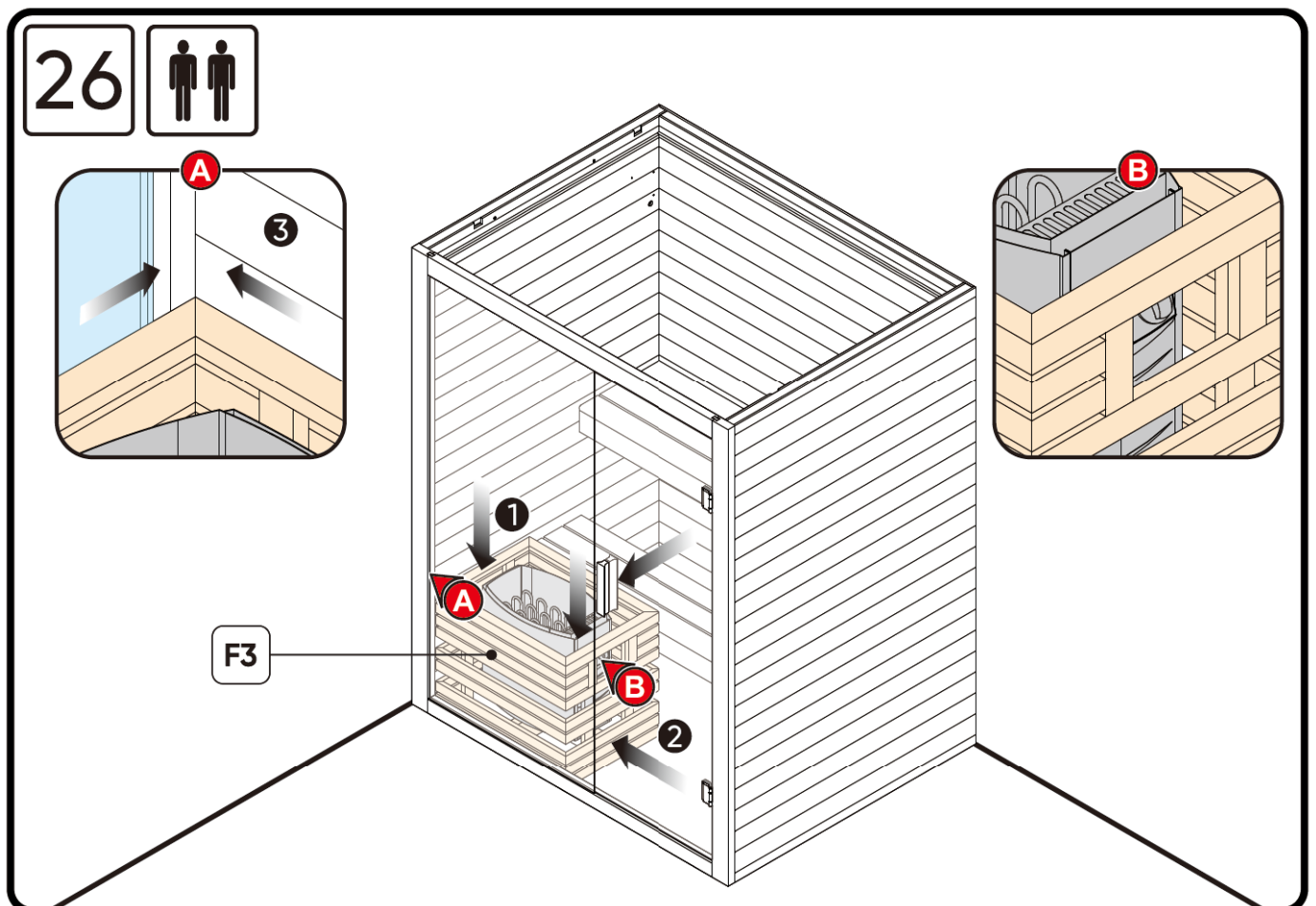
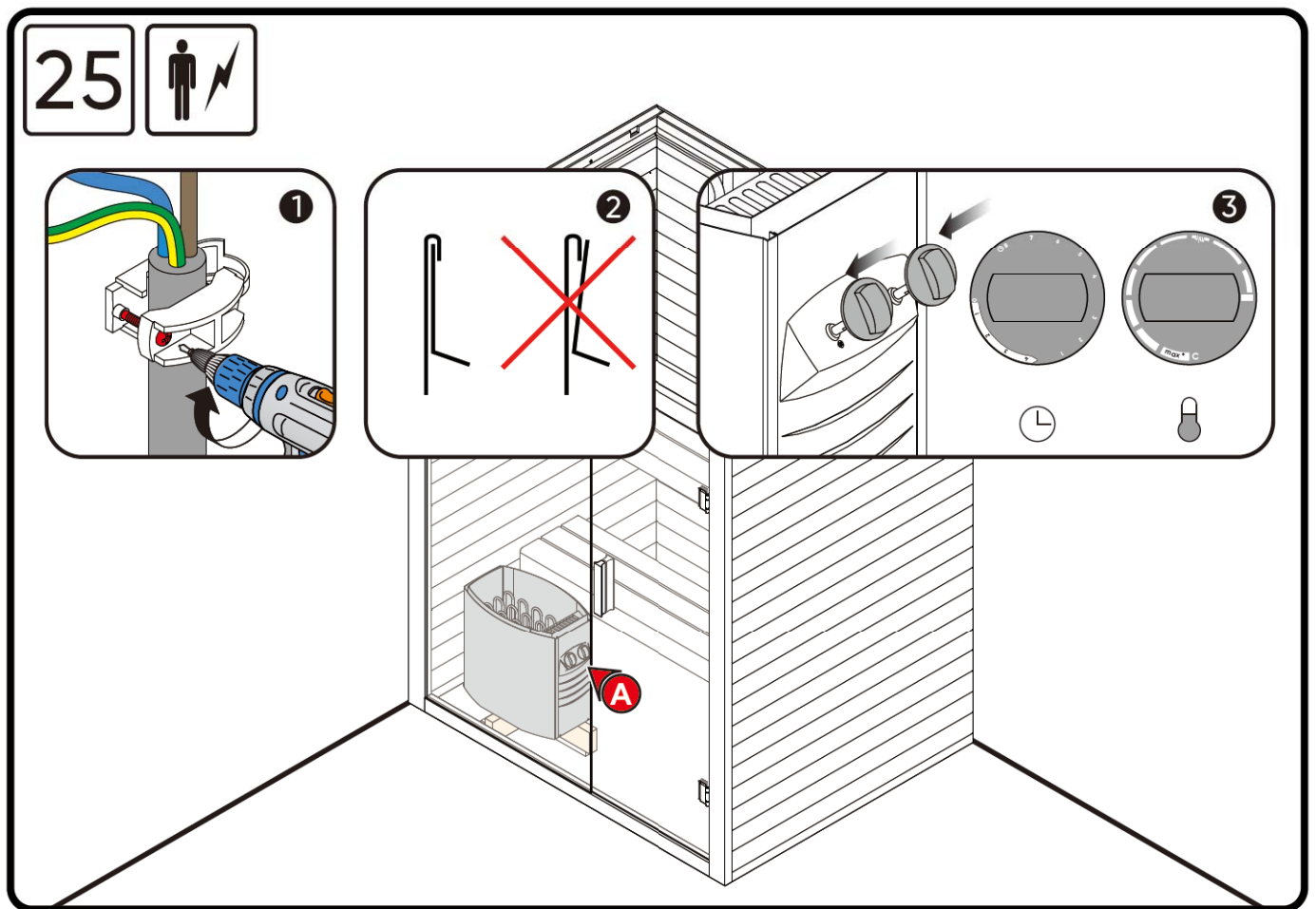


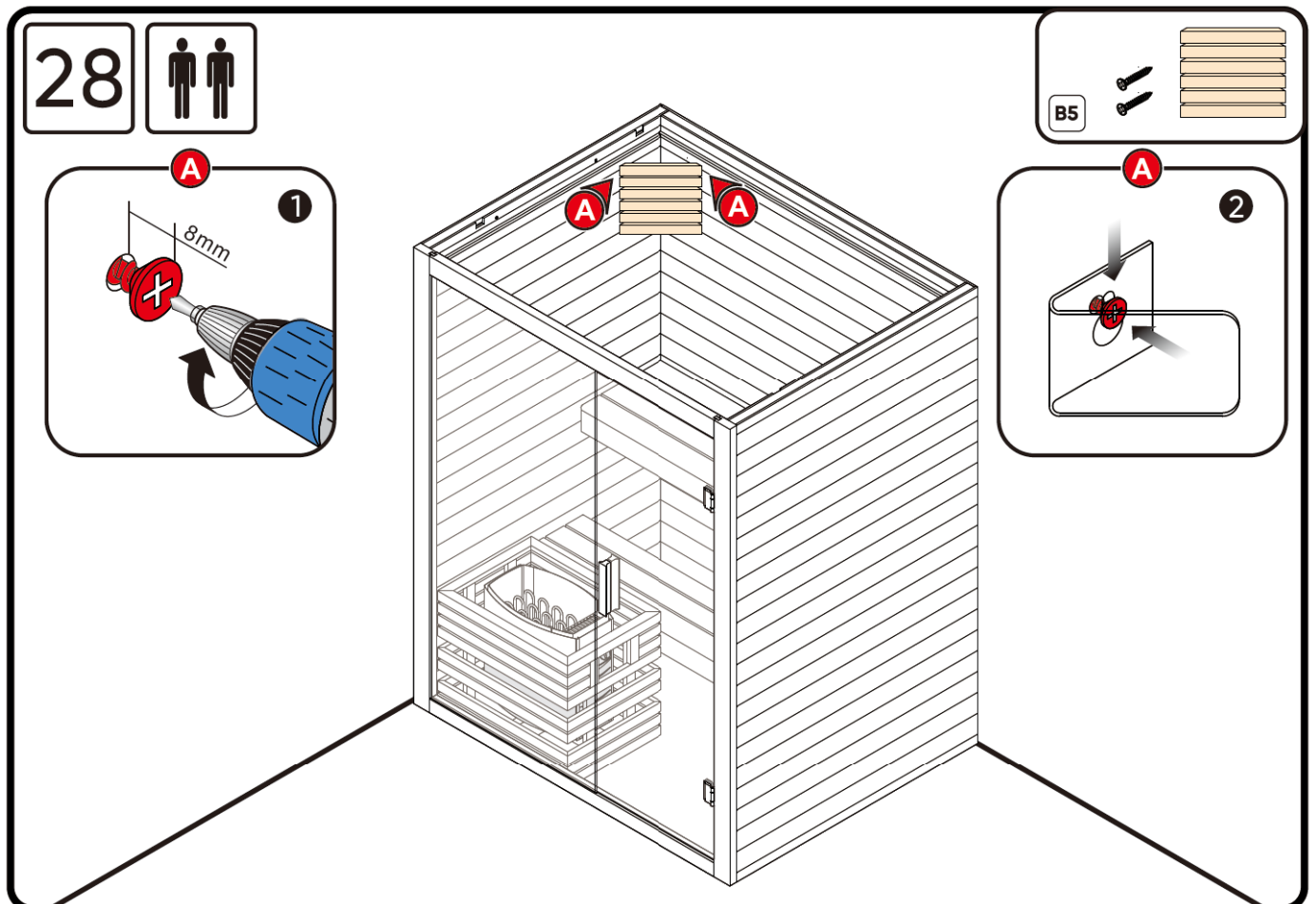
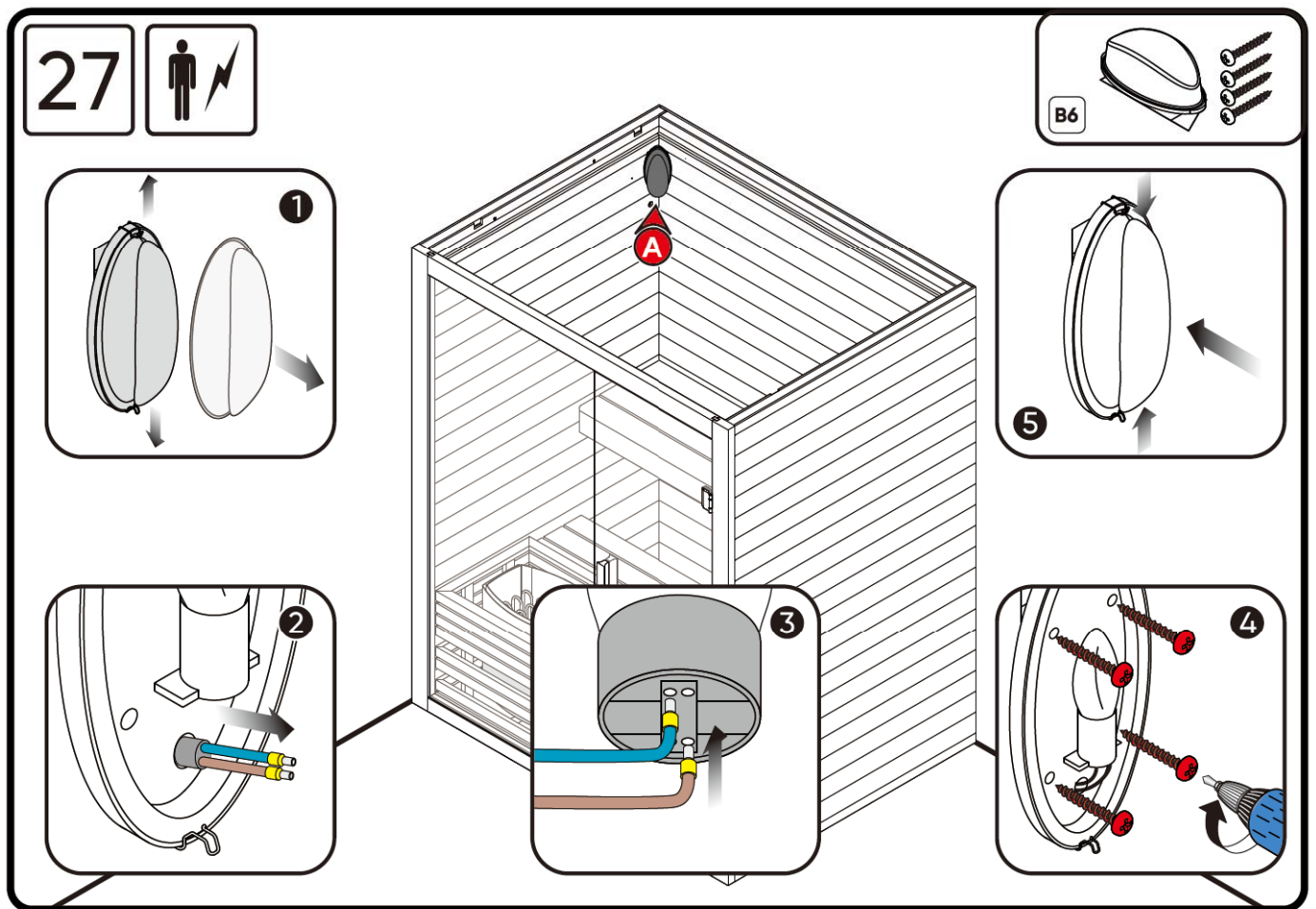
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24





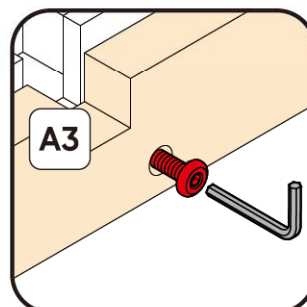
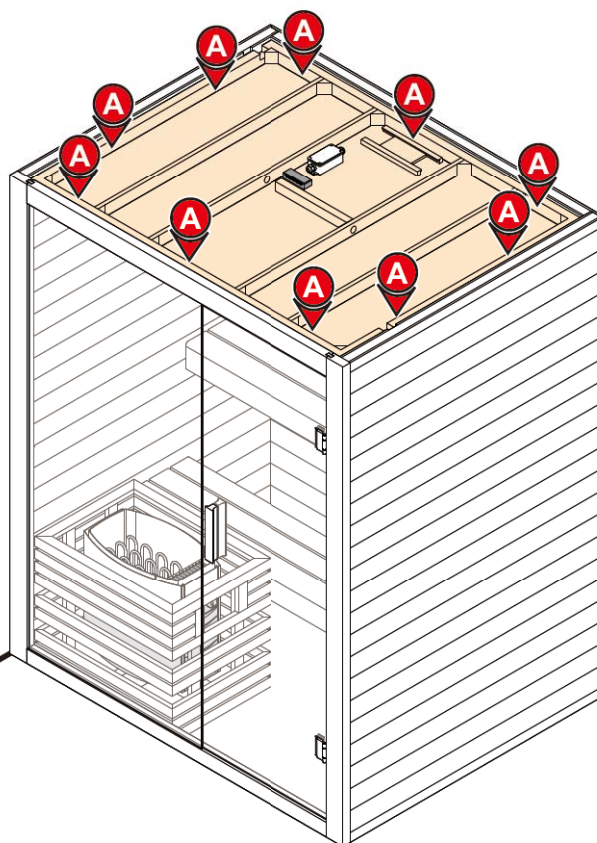




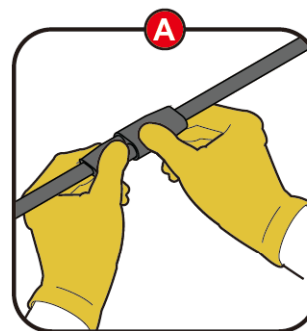
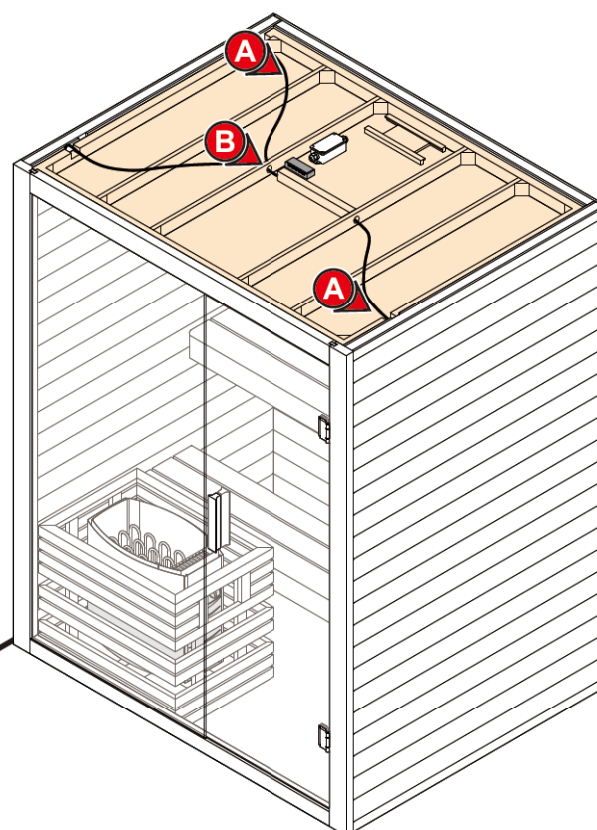
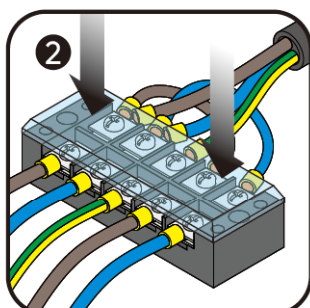
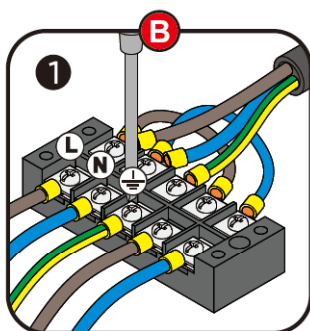
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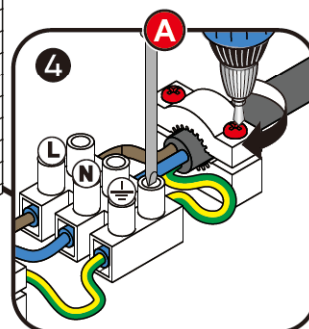
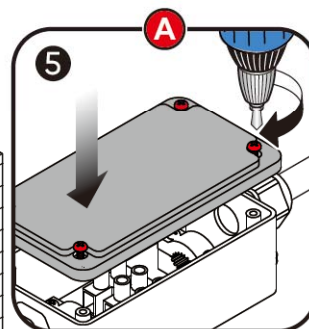
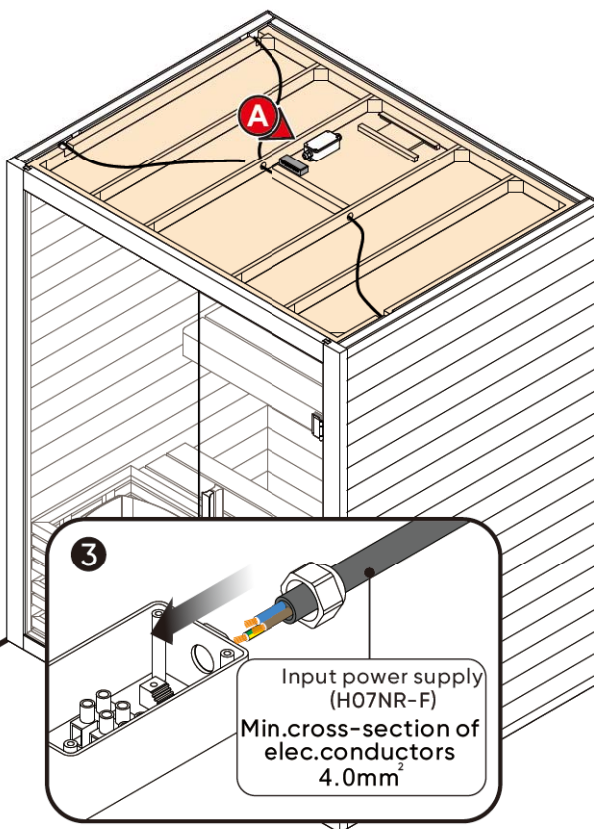
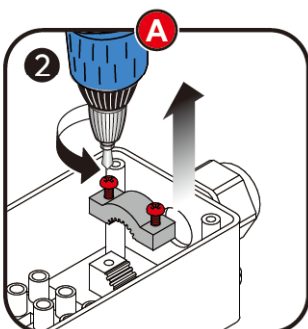
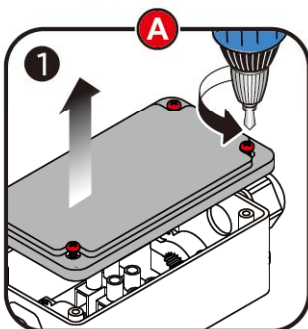
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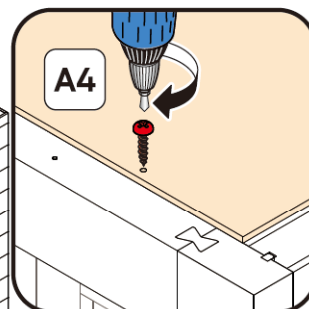
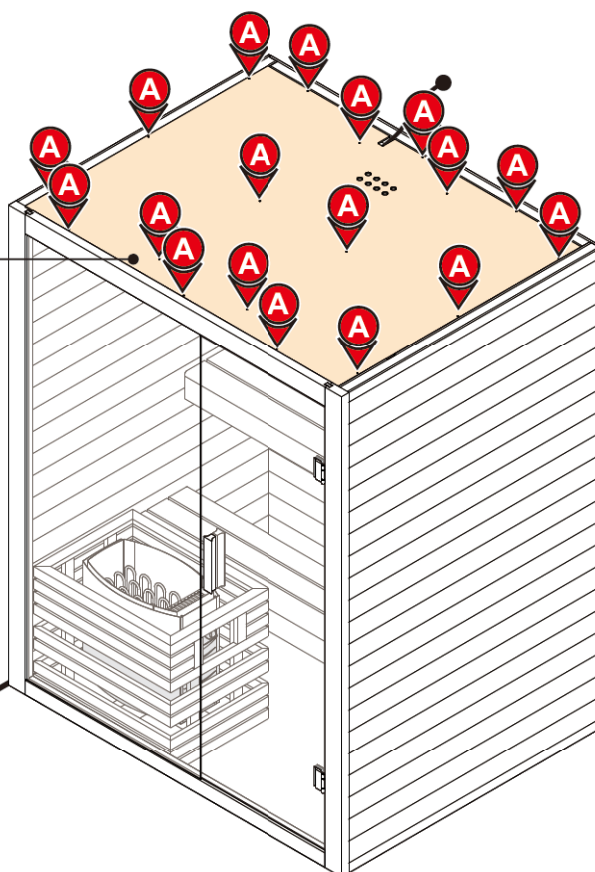
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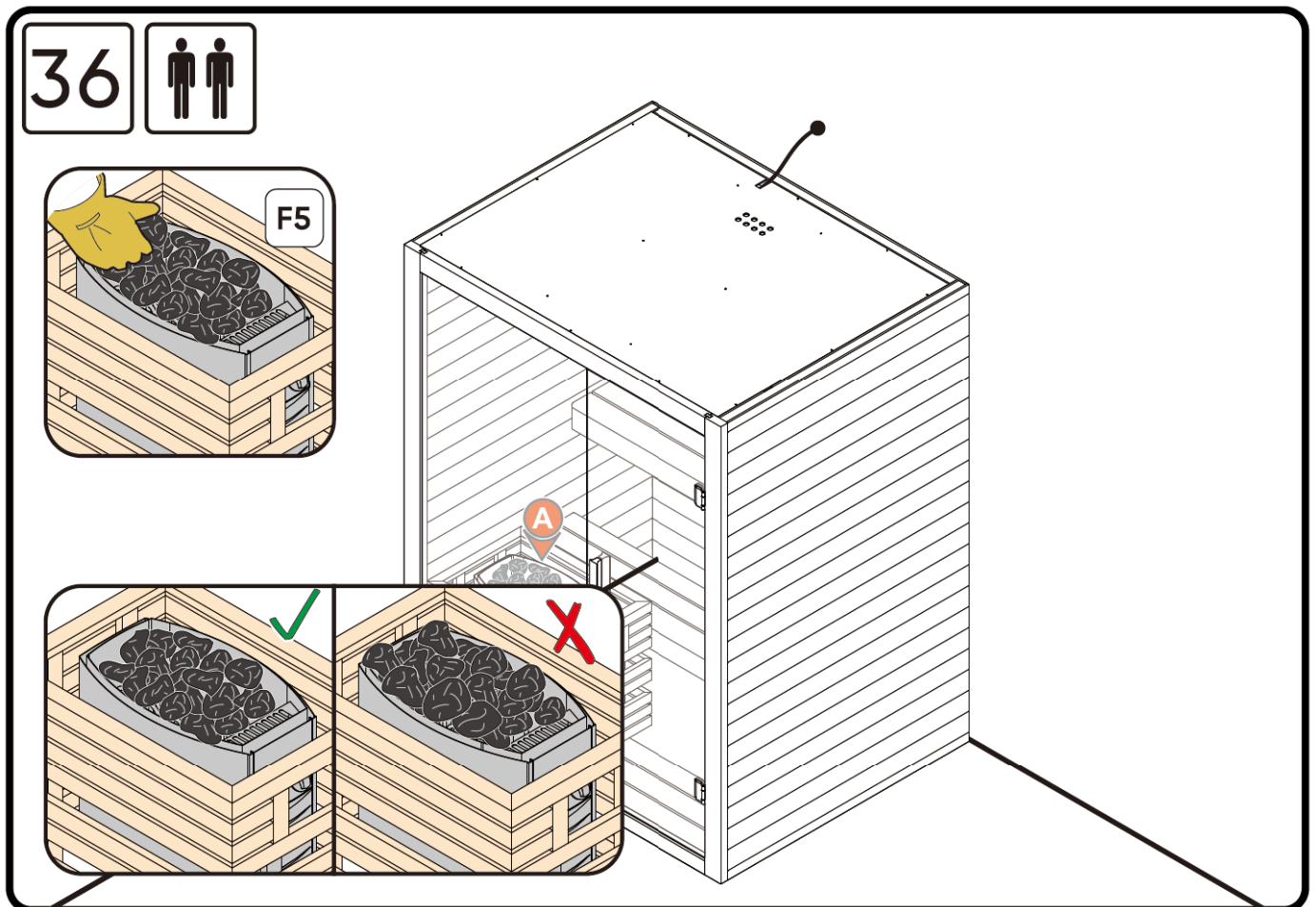
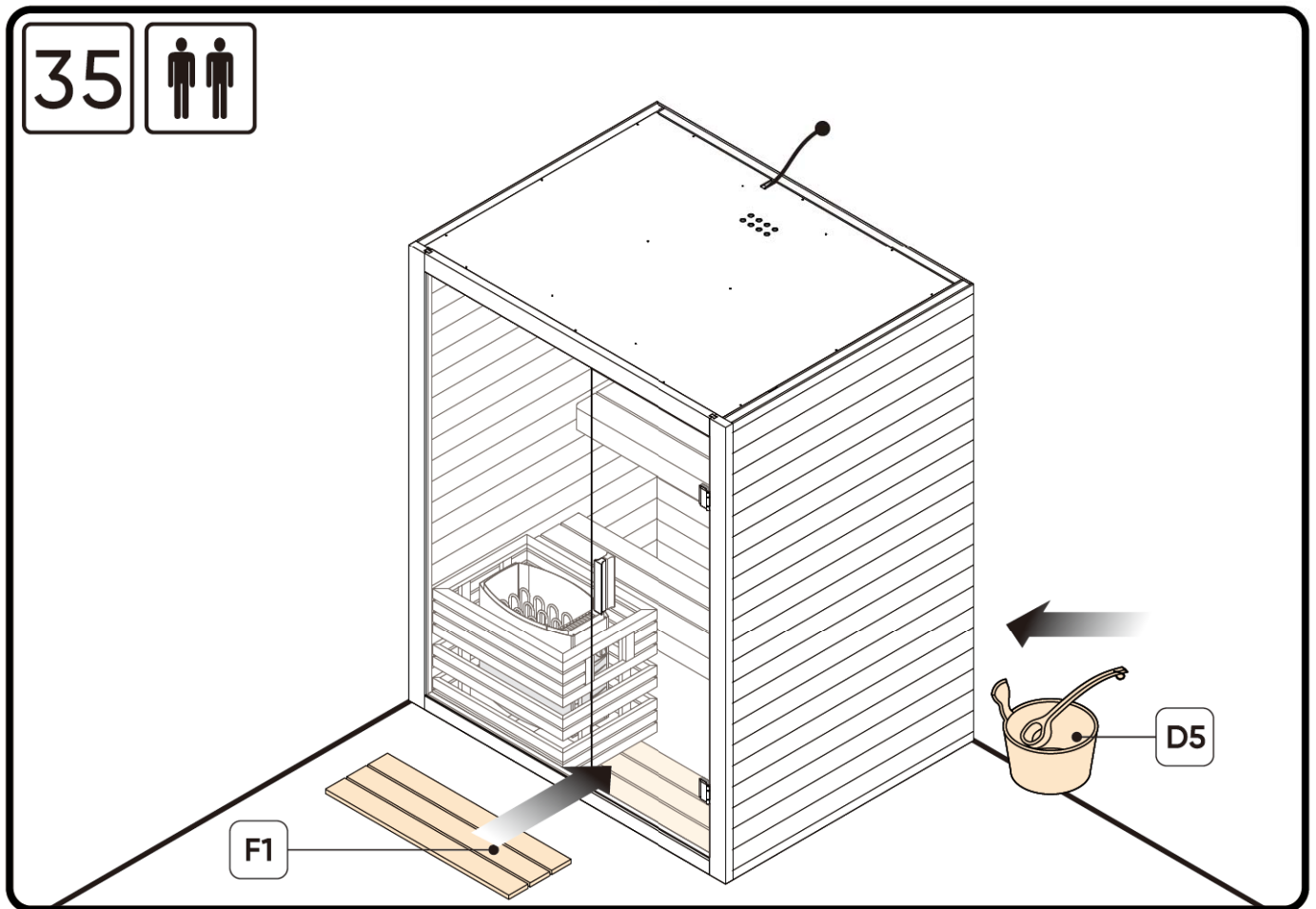


ST 4x15 x18



A1





Fill the heater with the stones provided.

ATTENTION:

The stones are supplied already washed, nevertheless we suggest you wash them again before putting them on the heater. The smaller stones must be put on the lower part, because this will ensure perfect air circulation. They should be positioned one on the other, ensuring that they do not cover the whole surface of the heating elements. We suggest you move and position the stones at least twice a year. When you do this, you have to throw away the smaller stones and the broken ones. In this way, you can have correct air circulation inside the heater and avoid the overheating of the heating elements and, consequently, their breaking. The size of the stones should be 3-5cm.

N.B.: THE WARRANTY DOES NOT COVER ANY DAMAGE CAUSED BY USING STONES THAT ARE TOO SMALL OR UNSUITABLE.

ATTENTION: no air circulation between the stones inside the heater may cause damage to the heating elements.

Connect the ORANS sauna to the mains using a H07NR-F power cable with a suitable cross-connection (see nameplates).

Install a Class "A" ground fault circuit interrupter upstream on the power supply line to the sauna. Refer to the rating plate of the sauna to be installed for the sizing of the power supply components (voltage, current, maximum power consumption, line protection fuse).

IMPORTANT:

If you need to replace the power supply cable, Contact an approved service centre.

IMPORTANT:

If you need to replace the power supply cable, be sure to make the connection (fixed) between the power supply cable itself (type H07NR-F) and the feeding line respecting, the polarities indicated by the respective symbols placed on the terminal board of the heater: L=phase, N=neutral connected to the light blue coloured wire, = the main ground terminal connected to the yellow-green wire. At the end of the new power supply cable installation, you have to seal the upper opening in order to prevent dust and liquid from entering through the passage of the power supply cable.

It is compulsory to fix the connection of the sauna ground wire to an efficient safety ground terminal.

The sauna should be installed in a dry, ventilated room that is not exposed to adverse weather conditions, rain, splashes or jets of water.

Installation and positioning in the bathroom area is permitted, provided that the local regulations in force are complied with, away from splashes or jets of water.

Always observe all the hazard warnings and safety regulations issued by the relevant authorities in each country.

Using the Heater

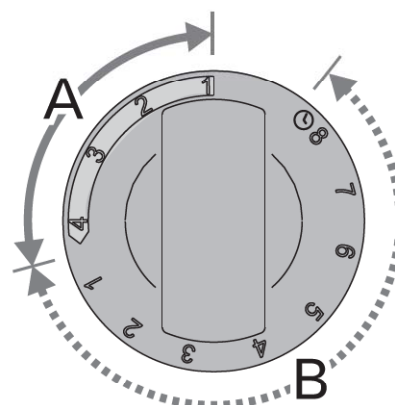
Before switching the heater on always check that there isn't anything on top of the heater or inside the given safety distance.

Heater On

Turn the timer switch to the "on" section (section A, 0–4 hours). The heater starts heating immediately.

Pre-setting Time (timed switch-on)

Turn the timer switch to the "pre-setting" section (section B, 0–8 hours). The heater starts heating when the timer has turned the switch back to the "on" section. After this, the heater will be on for about four hours.



Example: You want to go walking for three hours and have a sauna bath after that. Turn the timer switch to the "pre-setting" section at number 2. The timer starts. After two hours, the heater starts heating. Because it takes about one hour for the sauna to be heated, it will be ready for bathing after about three hours, that is, when you come back from your walk.

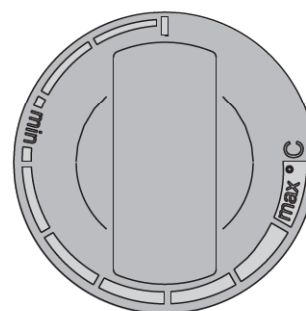
Heater Off

The heater switches off, when the timer turns the switch back to zero. You can switch the heater off at any time by turning the timer switch to zero yourself. Switch the heater off after bathing. Sometimes it may be advisable to leave the heater on for a while to let the wooden parts of the sauna dry properly. **NOTE!** Always check that the heater has switched off and stopped heating after the timer has turned the switch to zero.

Setting the Temperature

The purpose of the thermostat is to keep the temperature in the sauna room on a desired level. By experimenting, you can find the setting that suits you best.

Begin experimenting at the maximum position. If, during bathing, the temperature rises too high, turn the switch counter-clockwise a little. Note that even a small difference within the maximum section will change the temperature of the sauna considerably.



Resetting the Overheat Protector

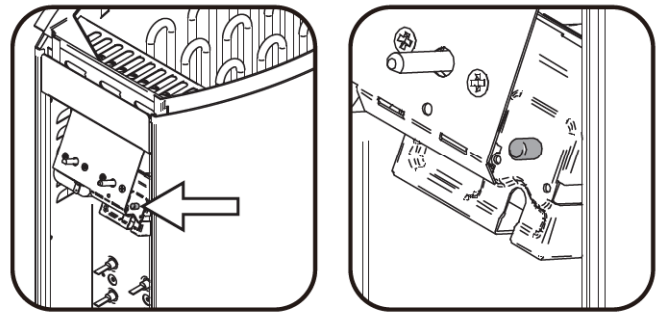
If the temperature of the sauna room becomes dangerously high, the overheat protector will permanently cut off the supply of the heater. The overheat protector can be reset after the heater has cooled down.

The reset button is located in located inside the heater's connection box .

Only persons authorised to carry out electrical installations can reset the overheat protector.

Prior to pressing the button, the cause of the fault must be found.

- Are the stones crumbled and pressed together?
- Has the heater been on for a long time while unused?
- Is the sensor of the thermostat out of place or broken?
- Has the heater been banged or shaken?



Throwing Water on Heated Stones

The air in the sauna room becomes dry when warmed up. Therefore, it is necessary to throw water on the heated stones to reach a suitable level of humidity in the sauna. The effect of heat and steam on people varies – by experimenting, you can find the levels of temperature and humidity that suit you best.

NOTE! The maximum volume of the ladle is 0.2 litres. If an excessive amount of water is poured on the stones, only part of it will evaporate and the rest may splash as boiling hot water on the bathers. Never throw water on the stones when there are people near the heater, because hot steam may burn their skin.

NOTE! The water to be thrown on the heated stones should meet the requirements of clean household water . Only special aromas designed for sauna water may be used.

Water property	Effect	Recommendation
Humus concentration	Colour, taste, precipitates	<12 mg/l
Iron concentration	Colour, odour, taste, precipitates	<12 mg/l
Hardness: most important substances are manganese (Mn) and lime, i.e. calcium (Ca).	Precipitates	Mn: <0,05 mg/l Ca: <100 mg/l
Chlorinated water	Health risk	Forbidden to use
Seawater	Rapid corrosion	Forbidden to use

Troubleshooting

Note! All service operations must be done by professional maintenance personnel. The heater does not heat.

- Check that the fuses to the heater are in good condition.
- Check that the connection cable is connected
- Turn the timer switch to the "on" section
- Turn the thermostat to a higher setting
- Check that the overheat protector has not gone off. The timer works but the heater does not heat.

