

# Installation manual

## Log cabin NORTH DAKOTA

Width 380 x Depth 570 cm

Log thickness 44 mm



The producer shall have the right to make technical changes to the product • Technische Änderungen vorbehalten • Le producteur réserve le droit d'effectuer des modifications techniques au produit • Il produttore mantiene il diritto di apportare modifiche tecniche al prodotto • Reservado el derecho a modificaciones técnicas • Produsent forbeholder seg retten til å endre tekniske egenskaper ved produktet • Alle rechten en technische wijzigingen voorbehouden • Výrobce si vyhrazuje právo na technické změny výrobku • Valmistaja pidättää oikeuden tehdä tuotteeseen teknisiä muutoksia • Tillverkaren har rätt att utföra tekniska förändringar för produkten

## 1 General information



**Dear client,**

We are glad that you have decided in favour of our garden house!

**Please read the assembly manual carefully before proceeding with the house installation!** You will thus avoid problems and will not waste time.

### **Recommendations:**

- Keep the house package until its complete assembly in a dry place, but not in direct contact with the ground, protected from weather conditions (moisture, the sun, etc.). Do not keep the house package in a heated room!
- When selecting the garden house location, make sure that the house will not be subjected to extreme weather conditions (areas of strong snowfall or winds); otherwise you should attach the house (for instance, with anchors) to the subsoil.



### **Warranty**

Your house is made from high quality fir and delivered in the natural (unprocessed) form. If, despite our thorough inspection, you should have complaints, please submit the filled out control sheet and purchase invoice to the product seller.

**ATTENTION: Please be sure to keep the documentation accompanying the house package! The control sheet includes the control number of the house. We can only review complaints if you submit the control number of the house to the seller!**

The warranty does not cover:

- Peculiarities of wood as a natural material
- Wooden details already painted (processed with a wood preservative)
- Wooden details containing whole branches that do not endanger the stability of the house
- Colour tone variations caused by wood structure differences that do not influence wood lifetime
- Wooden details containing (caused by drying) small cracks/gaps that do not pass through and do not influence the structure of the house
- Twisted wooden details if they can nevertheless be installed
- Roof and floor boards that may have on their concealed surfaces some non-planed areas, colour differences and waning
- Complaints resulting from an incompetent manner of the installation of the house or the house subsiding due to an incompetently made foundation
- Complaints caused by introducing self-initiative changes to the house, such as the deformation of wooden details and doors/windows due to an incompetent manner of wood processing; the attachment of storm braces too rigidly, doorframes being screwed onto wall logs, etc.

**The complaints covered by the warranty are satisfied to the extent of replacing the deficient/faulty material. All other demands will be excluded!**



## Garden house painting and maintenance

Wood is a natural material, growing and adapting depending on weather conditions. Large and small cracks, colour tone differences and changes, as well as a changing structure of wood are not errors, but a result of wood growing and a peculiarity of wood as a natural material.

Unprocessed wood (except for foundation joists) becomes greyish after having been left untouched for a while, and can be turn blue and become mouldy. To protect the wooden details of your garden house, you must immediately process them with a wood preservative.

We recommend that you cover the floor boards in advance with a colourless wood impregnation agent, especially the bottom sides of the boards, to which you will no longer have access when the house is assembled. Only this will prevent moisture penetration.

We definitely recommend that you also process the doors and windows with a wood impregnation agent, and do that namely both inside and outside! Otherwise the doors and windows can become twisted.

After the house assembly is completed, we recommend for the conclusive finishing a weather protection paint that will protect wood from moisture and UV radiation.

When painting, use high quality tools and paints, follow the paint application manual and manufacturer's safety and usage instructions. Never paint a surface in strong sunlight or rainy weather. Consult a specialist regarding paints suitable for unprocessed softwood and follow the paint manufacturer's instructions.

Having been properly painted, your garden house's lifetime will increase substantially. We recommend that you inspect the house thoroughly once every six months.

## 2 Preparation for assembly

### Tools and preparation of components

To assemble the garden house, you will need the following tools:



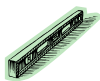
assembly aid



ladder



hammer



water-level



screwdriver



saw



knife



measuring tape



pliers



drill

**ADVICE:** To avoid splinters, we recommend that you wear the corresponding protective gloves during the assembly process.

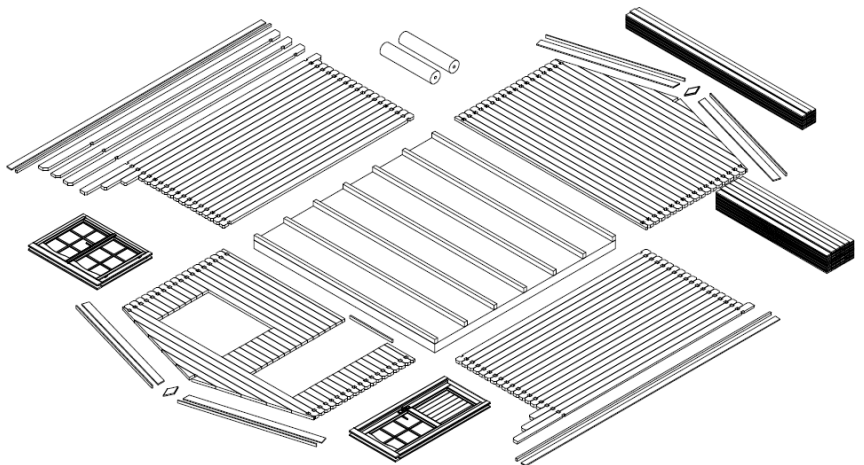
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## Preparation of components:

Sort the components based on the wall plans (see Technical specifications) and place them at the four sides of the house in the installation sequence.

**ATTENTION:** Never place the components directly on grass or a muddy surface because it will be very difficult or even impossible to clean them up later!



## **Foundation**

A good foundation is the most important aspect guaranteeing the duration and safety of your house. Only a completely level, rectangular and bearing foundation will ensure problem-free installation of the house, its stability and especially the matching of the doors. With a good foundation, your house will stand for many years more.

Prepare the foundation so that its upper edge extends from the ground to a height of at least 5 cm. At the same time make sure that there are sufficient air apertures under the house floor for ventilation.

We recommend the following foundation options:

- Strip or spot foundation
- Foundation from concrete or pavement slabs
- Cast concrete bed

Prepare the foundation so that the foundation joists are propped up on every side with intervals not exceeding 50-60 cm.

Consult an expert in this field or have the foundation prepared by specialists.

## **3 Garden house assembly**

### **ATTENTION:**

- You will find included in the house package one spare log (longest wall log).
- You will find included in the house package one spare board (longest roof or floor board).
- The house package also includes 2-3 marked hitting blocks (wall profile approximately 20-30 cm long).

All of the details listed above ARE NOT mentioned in the specification list.

- The drawings have the details marked with three-digit position numbers. The exact positions of those details that have the third digit "x" can be found in the specification list.

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## Base frame (Foundation joists)

The base frame of the house must be completely flat and level to ensure that the installation proceeds without problems.

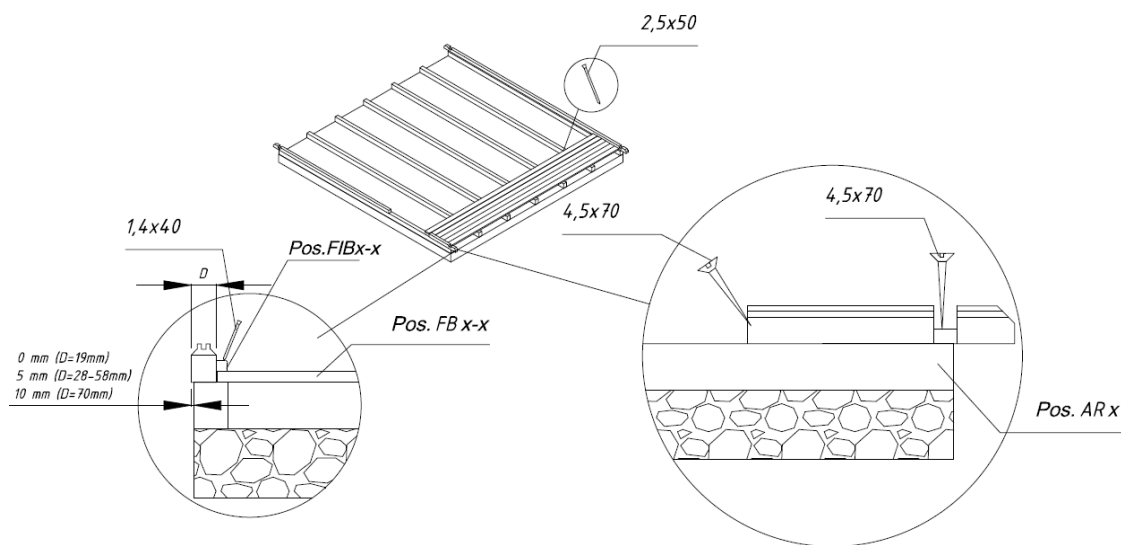
**ATTENTION: different house can have different foundation placements – see the appended base frame drawing (in Technical specifications)!**

Place the impregnated foundation joists on the prepared foundation in accordance with the drawing at equal intervals. Make sure that the joists are level and rectangular prior to screwing them together.

**ADVICE:** It is recommended to place between the foundation joists and foundation a damp-proof course that will protect the house from moisture and decay.

**ADVICE:** To ensure protection from wind and storm, it is recommended to attach the foundation joists to the foundation (for this, you can use for instance metal angles, anchors, etc.). The corresponding materials are not included in the supplied kit!

### Installation of foundation joists:



## Walls

When installing the walls, it is important to remember that:

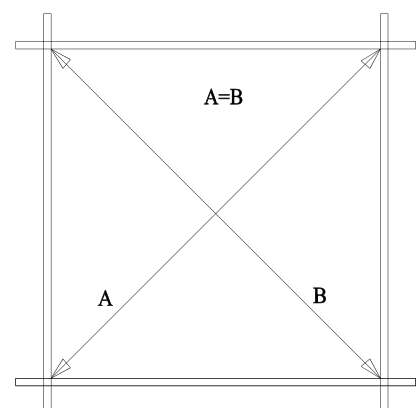
- The logs are always assembled with their tongue upwards!
- If necessary, use the hitting block and hammer! Never directly hit the tongue with the hammer!

Install the walls in accordance with the appended wall plans (see Technical specifications).

First of all place half logs of front and back wall at the correct location and attach them with screws to the foundation joists. Then install the side wall logs. Make sure that the first layer of logs extends a bit over the foundation joists: the logs must extend over the joists by some 3-5 mm. You will thus protect the house from moisture, allowing the free flow of rainwater into the ground.

**ATTENTION:** After the first layer of logs, measure the diagonal lengths and, if necessary, re-install the logs. Only if the diagonal lengths are completely equal is the base frame rectangular and you can mutually attach the logs.

### The first layer of logs:



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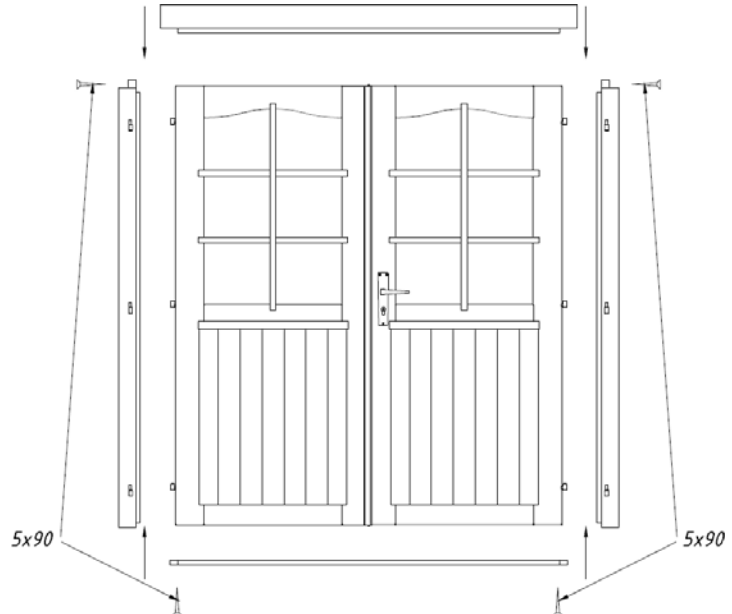
Continue the installation of the walls by strongly forcing the wall logs into one another. If necessary, use the hitting block and hammer. At the same time, do not forget to begin the installation of the door and windows. You should definitely begin the door installation after the 5<sup>th</sup>-6<sup>th</sup> layer of logs.

## Door and window

### Doorframe:

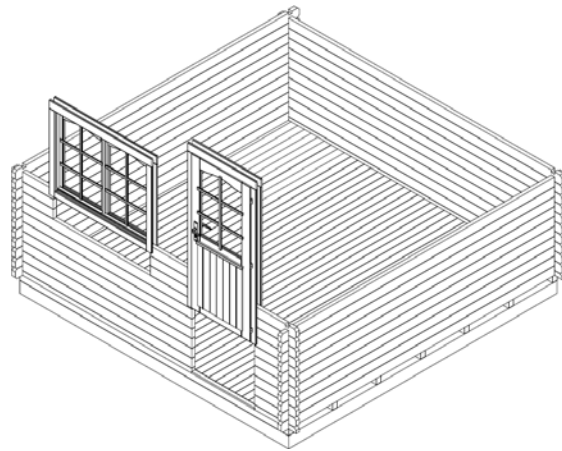
- If it is a double door, the doorframe is supplied in separate parts due to transportation requirements and you will have to begin by assembling it.
- To do this, place together the 4 parts of the frame and screw them onto one another.
- Make sure that the part of the frame with the deeper notch is installed upwards. The lateral jamb parts have hinges and are mirrored.
- It is recommended to install the leaves later.
- If it is a single door, its frame and leaf are supplied already assembled.

### Doorframe installation (Only necessary for a double door!):



### Door installation:

The doorframe is placed at the formed aperture and pushed with force onto the lower log. If it is a double door, place the leaves on the hinges now. To open and close the door, fit the separately packaged lock and handle.



### Window installation:

Continue with the installation of the wall logs until you reach the window height. The wall plans (see Technical specifications) show how many logs go under the window. Install the window similarly with the door. Just like the door, push the window frame with the window into the window aperture onto the lower log, applying force. Make sure that the window is not fitted backwards (topsy-turvy).

**ADVICE:** Definitely make sure that the windows and doors open in the proper direction. The doors always open from the inside **to the outside**. The revolving-tilting windows open **to the inside**. The revolving and the slinging windows open **to the outside** (the window handles are on the inside).

**ATTENTION:** It is not necessary to fix the doors and windows to the wall logs! If you wish to do this, it will be sufficient to fix them with a couple of screws in the lower part of the frame because as they dry, the wall logs will begin subsiding.

You can conduct the final adjustments of the doors and windows only some 2-3 weeks after the house installation, when the house will have become adapted to weather conditions and its logs settled.

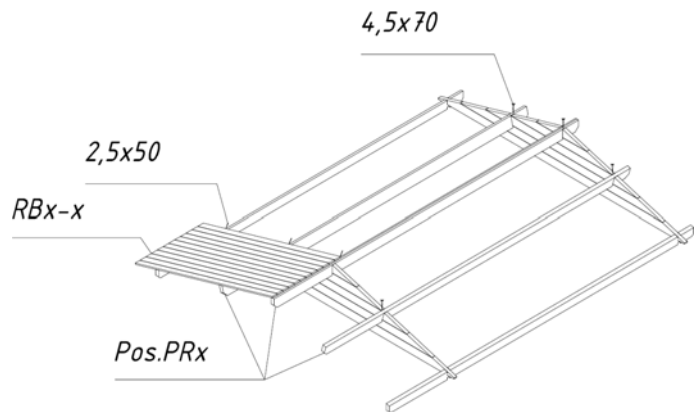
### Apex

In most cases, the apex is supplied in one piece (attention: in some house options, the apex can comprise several parts! In this case, these parts will have to be screwed together prior to other actions). Having installed the last wall logs, place the apex on the front and back walls and attach them with screws.

The apexes have indents for the rafters. The rafters also have the corresponding indents, ensuring that the roof is placed firmly and in the right place.

Now place the rafters in the Installation of rafters: corresponding indents in the apexes.

Make sure that the upper wall log, apexes and rafters are level. Having fitted the rafters, screw them onto the apex from above.



**ATTENTION:** If the wall logs are not properly pressed on top of one another without gaps, the upper wall log may not be on the same level with the apexes. In this case you should tap the wall logs downwards as necessary or plane the apex or sidewall log somewhat lower.

### Roof

Before installing the roof boards, make sure that the house is completely level. Use the water-level to check all walls.

**ATTENTION:** When placing the roof, use a stable ladder. Do not step on the roof as the structure is suitable to sustain only an even load (snow, wind, etc.), and not a point load!

Begin the installation of the roof boards **from the front edge of the roof**. Tap the boards lightly and attach them from above and below with nails to the rafters and upper wall log.

**ATTENTION:** Do not press the roof boards together too densely and you will avoid moisture-causing bulging! Leave an interval of about 1 mm between the boards to allow for swelling.

- During the whole process of installing the roof boards, make sure that their crest rafters coincide and the eave sides of the boards extend at a uniform distance. Verify this with a rope or the lateral eave lath that you may install for verification purposes.
- The roof boards must be even with the rafter ends in front and behind. If necessary, saw both last roof boards so narrow that they are even with the rafter ends.

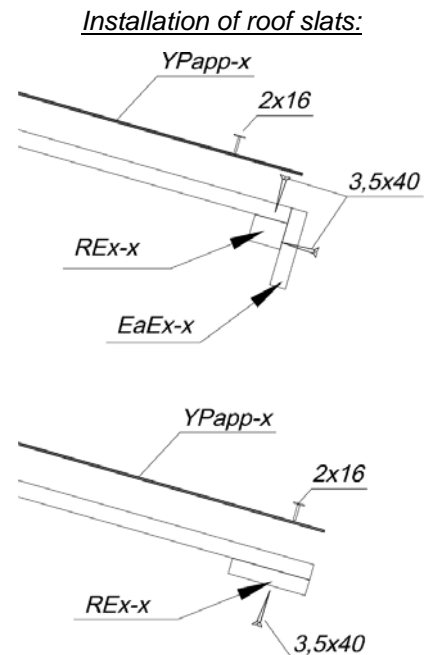
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Having installed the roof boards, the roof felt and roof slats must be attached.

**The table of components shows whether the roof cover material and slats are included with this house option!**

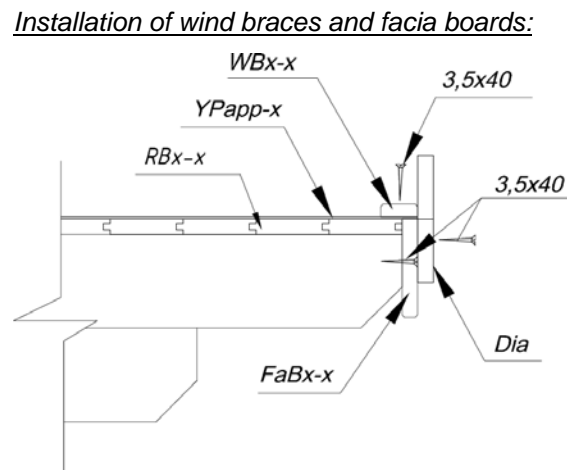
First of all, screw the roof edge reinforcements and eave edgings under the roof board ends. Then install the roof cover material.



Roof cover material (NB! Some house options do not include it in the kit!)

Cut the roof felt in accordance with the roof length into suitable pieces and begin installing them parallel to the lower edge of the roof, moving toward the crest and placing the felt strips in the direction from the back wall to the front wall. The felt should extend from the edge by approximately 2-4 cm. Attach the roof felt to the roof boards with the supplied felt nails at intervals of about 15 cm. Make sure that the felt strips overlap by at least 10 cm.

Having installed the roof cover material, attach the wind braces to the roof and the fascia boards to the rafters and upper wall logs.



## Floor

Only when the house is built completely you can install the floor boards, thus avoiding unnecessary smudging on the floor.

Place the floor boards on the base frame, tap them lightly against one another and then nail them with force to the foundation joists. If necessary, cut the last floor board to the suitable width.

The final operation is the fitting of the floor beadings to cover the spaces between the floor boards and walls. If necessary, cut the floor beadings to the suitable length.

**ATTENTION:** Depending on the climate at the house location, the floor boards can either swell or diminish. If the floor boards are very dry while the climate is damp, they will easily absorb moisture. In



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this case, the floor boards should not be attached very densely to avoid likely bulging. Leave some space (1-2 mm) between the floor boards to allow for swelling. But if your climate is warm and dry, you can install the boards densely because they will become drier and spaces may appear between them.

## Storm braces (NB! Not included in some house option kits!)

Attach the storm braces (if included in the supplied kit) to the inner sides of the front (2 units) and back (2 units) walls with the supplied bolts. It is important for the logs to be drilled through in advance. Please keep the distances indicated in the drawing so that no problems occur due to wood swelling or diminishing.

**ADVICE:** Make sure that the storm braces are attached to the apex log from above and to the middle of the first full-length wall log from below. If necessary, shorten the upper ends of the slats.

Do not turn the screws tightly so wood can further swell or diminish.

With the house having settled, you should adjust the attachments so the wall logs can settle.

### Installation of storm braces:



## General advice:

### **Problem:** *Gaps appear between the wall logs*

**Cause:** Additional details are attached to the house that do not allow wood to swell/diminish.

**Solutions:** If the door/window is attached to the wall logs with screws/nails, remove these screws/nails;  
If the storm brace is screwed on too tightly, loosen its attachment;  
If (rain water) pipes are installed on the wall, loosen their attachments;

### **Problem:** *The doors and windows become stuck.*

**Cause:** The house/foundation has settled.

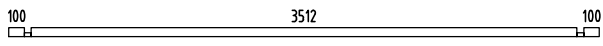
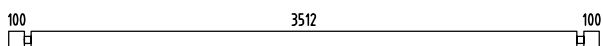
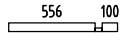
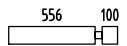
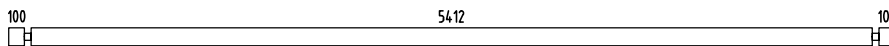
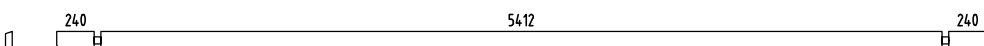
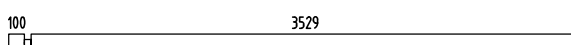
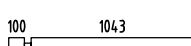
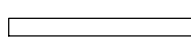
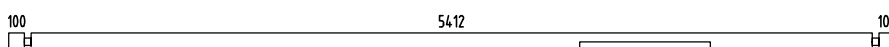
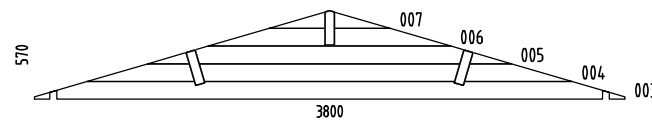
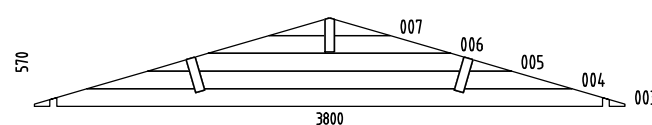

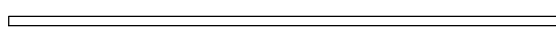
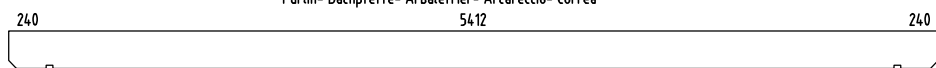
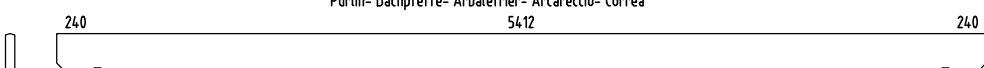







**Solution:** Check whether the house is level. Level the foundation joists and walls.

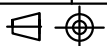
**Cause:** The doors and windows have swelled due to moisture.


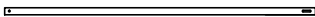

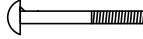
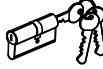

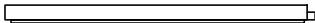







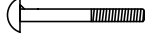








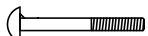
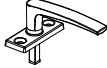
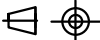
**Solution:** Adjust the door and window hinges; if necessary, plane the door or window narrower.

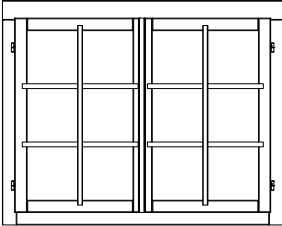

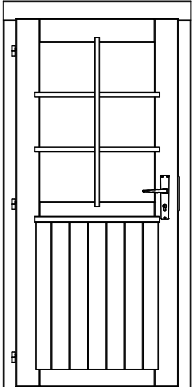




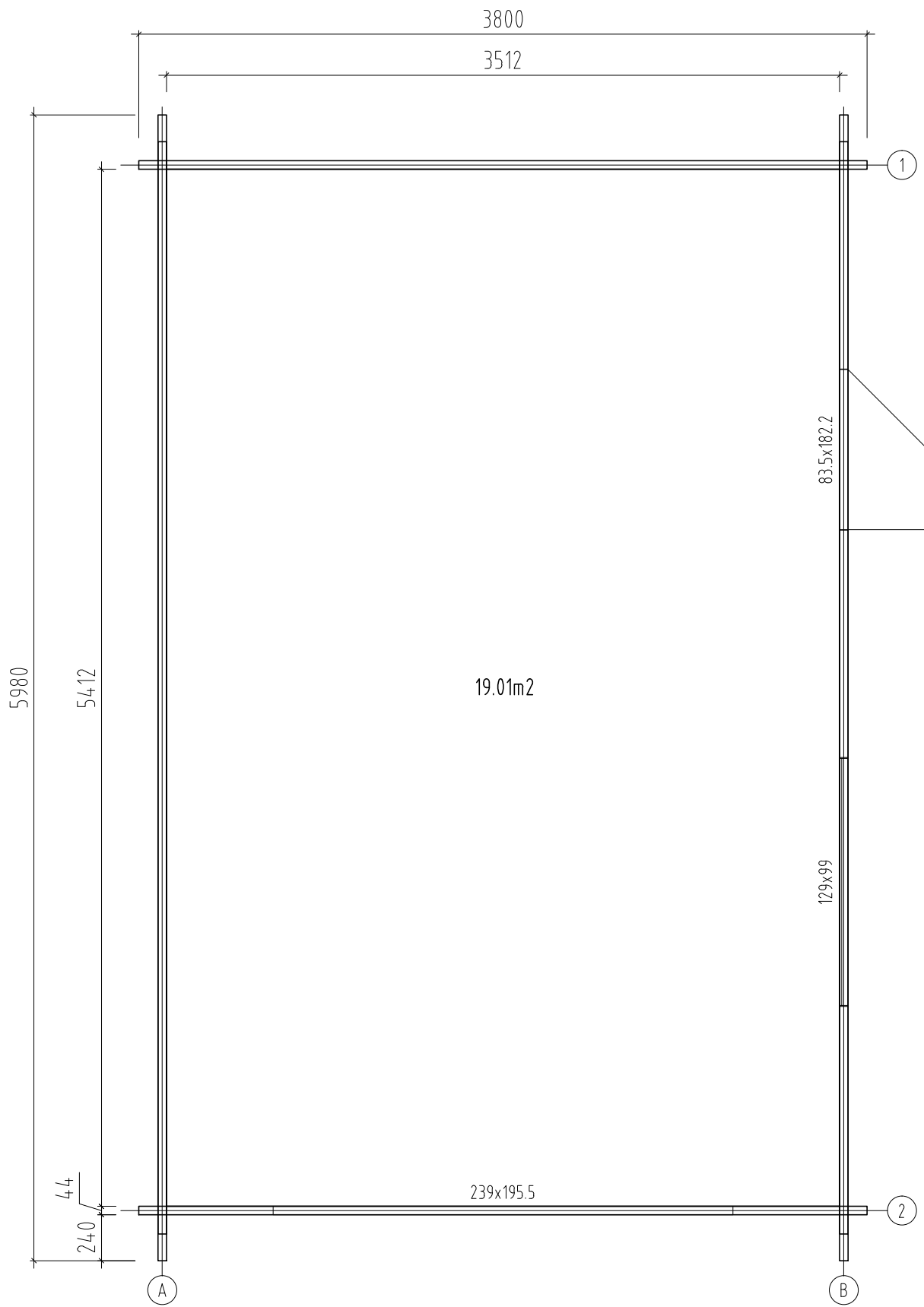
We wish you total success with the garden house installation and much joy with this house for many years to come!

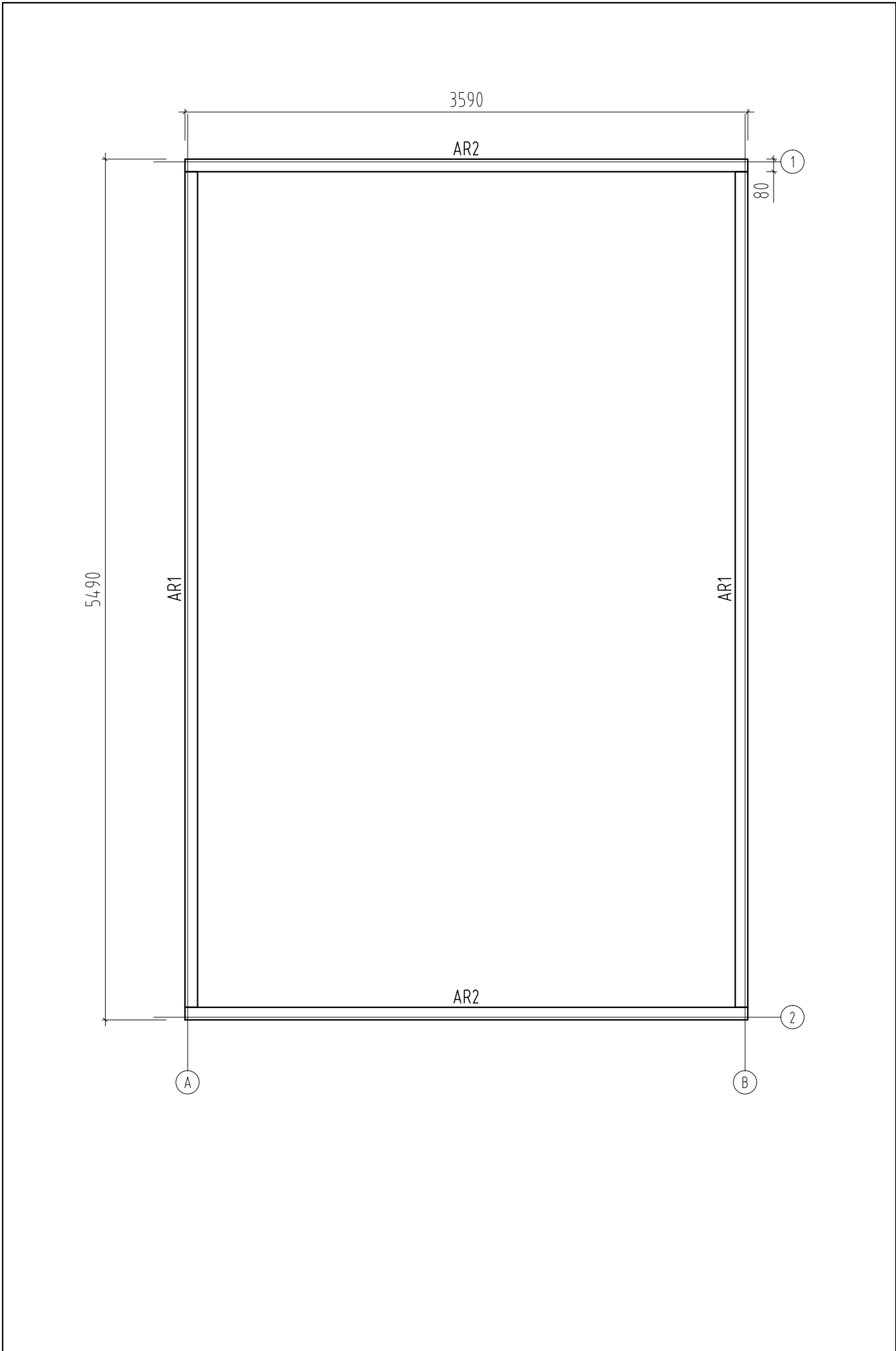
Pos	SPECIFICATION-STÜCKLISTE-NOMENCLATURE-ELEMENTI-ESPECIFICACIÓN "FRE44-3857"	Pcs	Profile (mm)	Length (mm)
001		1	44x57	3800
002		19	44x114	3800
008		2	44x57	700
009		34	44x114	700
010		19	44x114	5700
011		2	44x114	5980
012		7	44x114	3673
013		25	44x114	1187
014		9	44x114	1187
015		1	44x114	5700
W1-1		1		
W2-1		1		
AR1	Foundation- Fundament- Fondation- Fondazione- Vigas de cimentación 	2	80x60	5330
AR2	Foundation- Fundament- Fondation- Fondazione- Vigas de cimentación 	2	80x60	3590
PR1	Purlin- Dachpfette- Arbalétrier- Arcareccio- Correa 	2	60x240	5980
PR2	Purlin- Dachpfette- Arbalétrier- Arcareccio- Correa 	1	60x240	5980
RB2-1	Roof board- Dachbrett- Madrier du toit- Tavola tetto- Tabla de tejado 	136	89x19	2200
Dia-1	Diamond- Deckbrett- Madrier- Tavola di copertura- Rombo 	2	19x140	300
EaE1-1	Eave edging- Dachrandbrett- Madrier en bordure du toit- Tavola bordo tetto- Tabla de valadizo 	4	16x95	2990
FaB3-1	Facia board- Giebelblende- Écran frontal- Schermo frontone- Tabla de facia 	4	16x120	2240
RE2-1	Roof edge reinforcement- Dachrandleiste- Baguette en bordure du toit- Refuerzo bordo tetto- Refuerzo borde tejado 	2	32x40	2480
RE2-2	Roof edge reinforcement- Dachrandleiste- Baguette en bordure du toit- Refuerzo bordo tetto- Refuerzo borde tejado 	2	32x40	3500
QTiHe ndTPE 8mm-1	Seal- Gummidichtung- Joint d'isolation- Guarnizione- Burlete 	2	TA44-21L U44-24L	5000

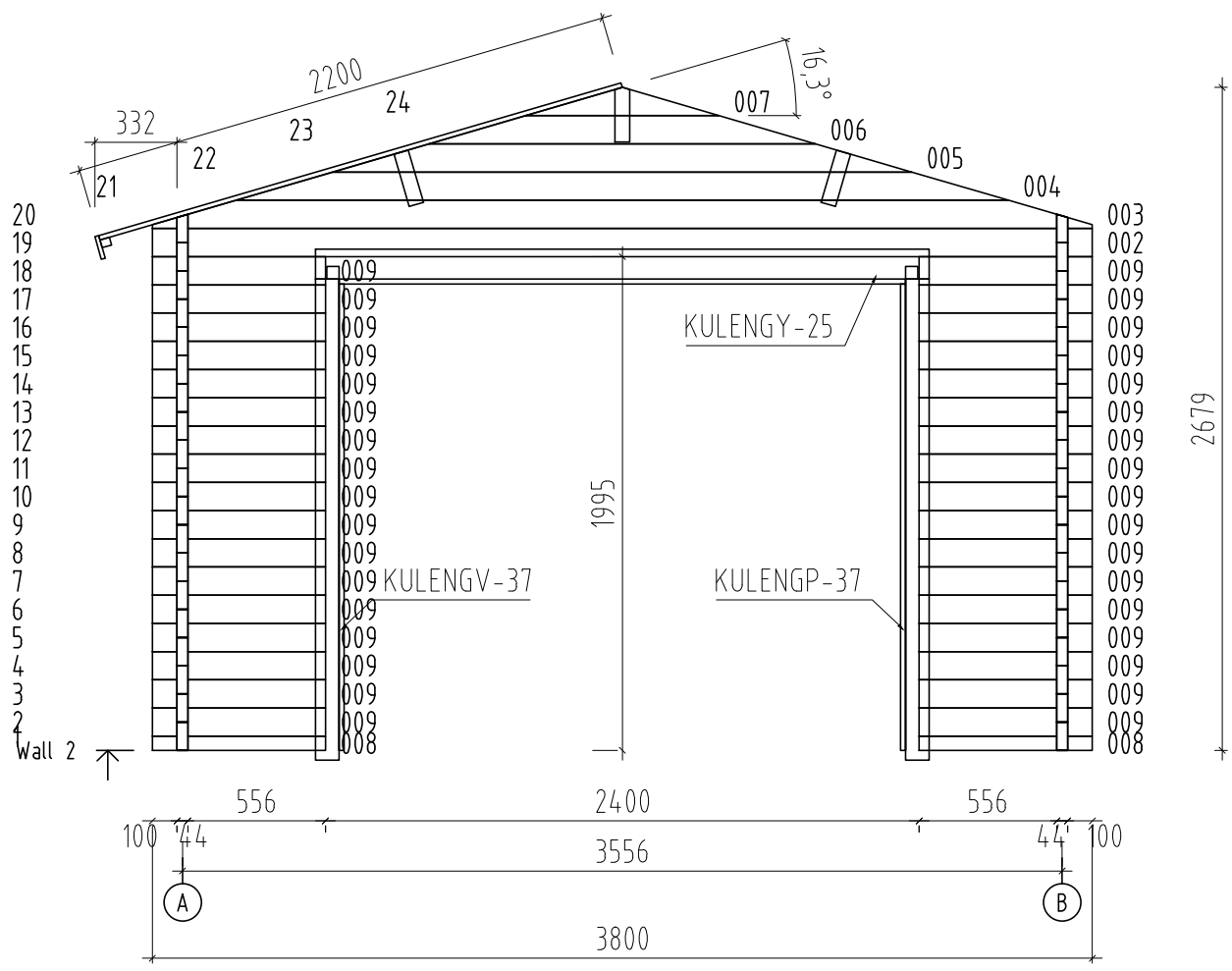


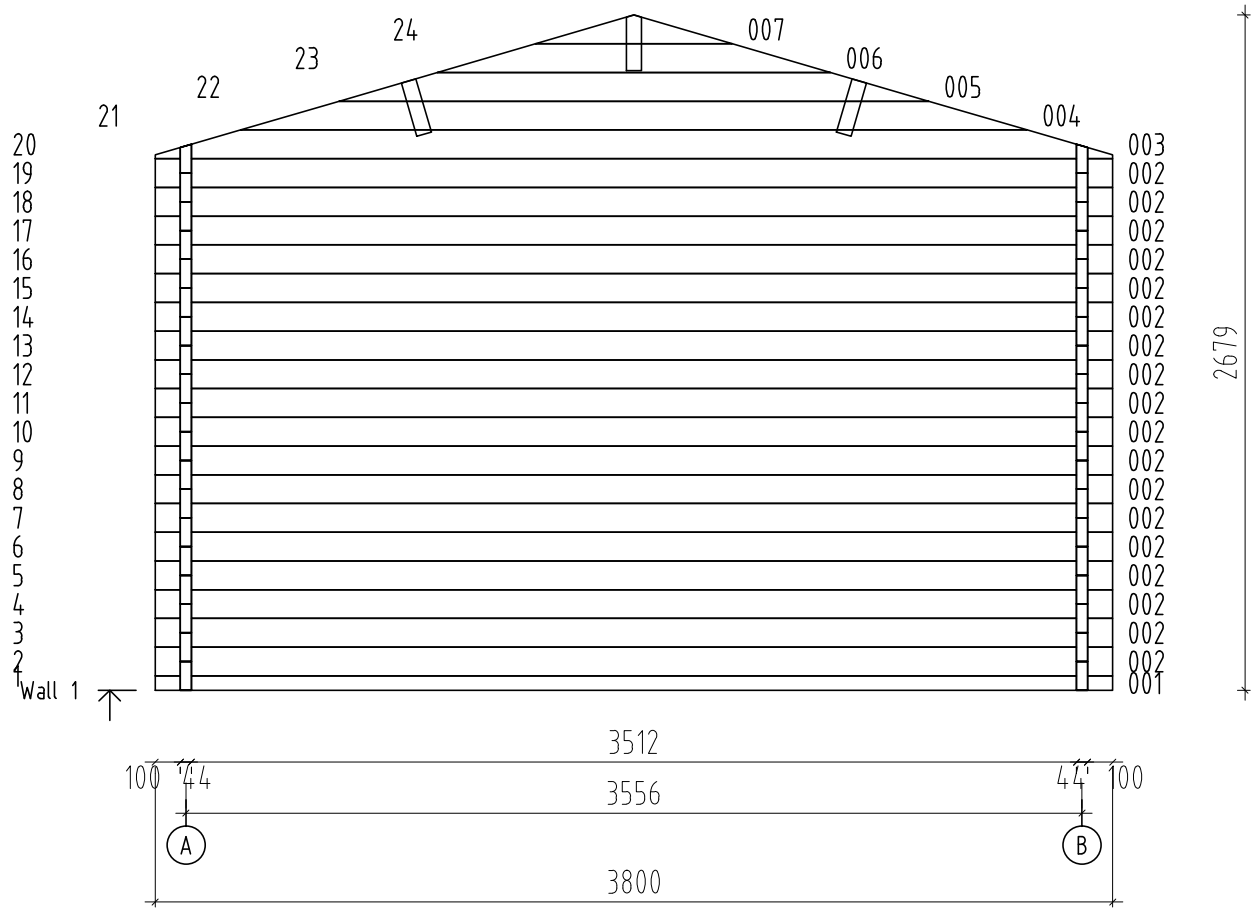
Pos	SPECIFICATION-STÜCKLISTE-NOMENCLATURE-ELEMENTI-ESPECIFICACIÓN "FRE44-3857"	Pcs	Profile (mm)	Length (mm)	
SiS5-1	Side slat - Randleiste - Baguette en bordure - Listello bordo 5		2	28x45	911
StB1-1	Storm brace- Sturmleiste- Protection contre le vent- Antivento- Protector contra tormentas		4	25x45	2100
Fim	-Fixing kit- Befestigungsset- Moyens de fixation- Materiale di fissaggio- Kit de fijación		1	USE	
QPUP 08x80	Bolt -Schloss-schraube -Boulon- Bullone- Perno- M8x80mm PUP0		8	StB1-1	
QULSy damik 30/35	Cylinder- Zylinderschloss- Serrure a mortaiser- Serratura a cilindro- Bombin- 30.35		1	U44-24L	
KULEN GP-37	Detail- Detail- Detail- Dettaglio- Detalle- KULENGP-37		1	W2	
KULEN GV-37	Detail- Detail- Detail- Dettaglio- Detalle- KULENGV-37		1	W2	
KULEN GY-25	Detail- Detail- Detail- Dettaglio- Detalle- KULENGY-25		1	W2	
QULKat eHOBEk	Door fittings- Türbeschlag- Ferrure- Ferramenta porta- Manilla puerta- QULKateHOBEk		1	U44-24L	
QULLi nkHOBE	Door fittings- Türbeschlag- Ferrure- Ferramenta porta- Manilla puerta- QULLinkHOBE		1	U44-24L	
QNU2 02040	L-iron- Winkel- Angle -Angolo- Angulo 20x20x40		2	002 (W2)	
QNU4 04040	L-iron- Winkel- Angle -Angolo- Angulo 40x40x40		12	AR+wall; ...	
QNA2 2x50Zn	Nail- Nagel- Clou- Chiodo- Clavo- 2.5x50mm		450	RB2-1	
QMU8	Nut- Schraubenmutter- Écrou- Dado- Tuerca- M8mm		8		
QKR3 5x40Zn	Screw- Schraube- Vis- Vite- Tornillo- 3.5x40mm		100		
QKR3 x20Zn	Screw- Schraube- Vis- Vite- Tornillo- 3x20mm		18	U44-24L; TA44-21L	
QKR4 5x50Zn	Screw- Schraube- Vis- Vite- Tornillo- 4.5x50mm		80	KULENGx+KULENGY-25 EaE1-1; FaB3-1; RE2; ...	
QKR4 5x70Zn	Screw- Schraube- Vis- Vite- Tornillo- 4.5x70mm		40	001; 008; 011; SiS5-1; ...	
QKR5 x90Zn	Screw- Schraube- Vis- Vite- Tornillo- 5x90mm		4	KULENGY-25	
QKR6x 120Zn	Screw- Schraube- Vis- Vite- Tornillo- 6x120mm		10	ARx; PRx	
QSE8x22	Washer- Dichtscheibe- Joint- Rondella- Arandela- 8x22mm		8		
QALLi nkHOBE	Window fittings- Fenstergriff- Poigne de la fenêtre- Maniglia finestra- Manilla (ventana)		1	TA44-21L	
	Object name "FRE44-3857"			Page 2/3	

Pos	SPECIFICATION-STÜCKLISTE-NOMENCLATURE-ELEMENTI-ESPECIFICACIÓN "FRE44-3857"	Pcs	Profile (mm)	Length (mm)
TA44 -21L	Window - Fenster - Fenetre - Finestra-Ventana 1290x990    1190x890mm	1		
U44-24L	Door - Tür - Porte - Porta-Puerta 835x1822    735x1753mm	1		
	Object name "FRE44-3857"			Page 3/3

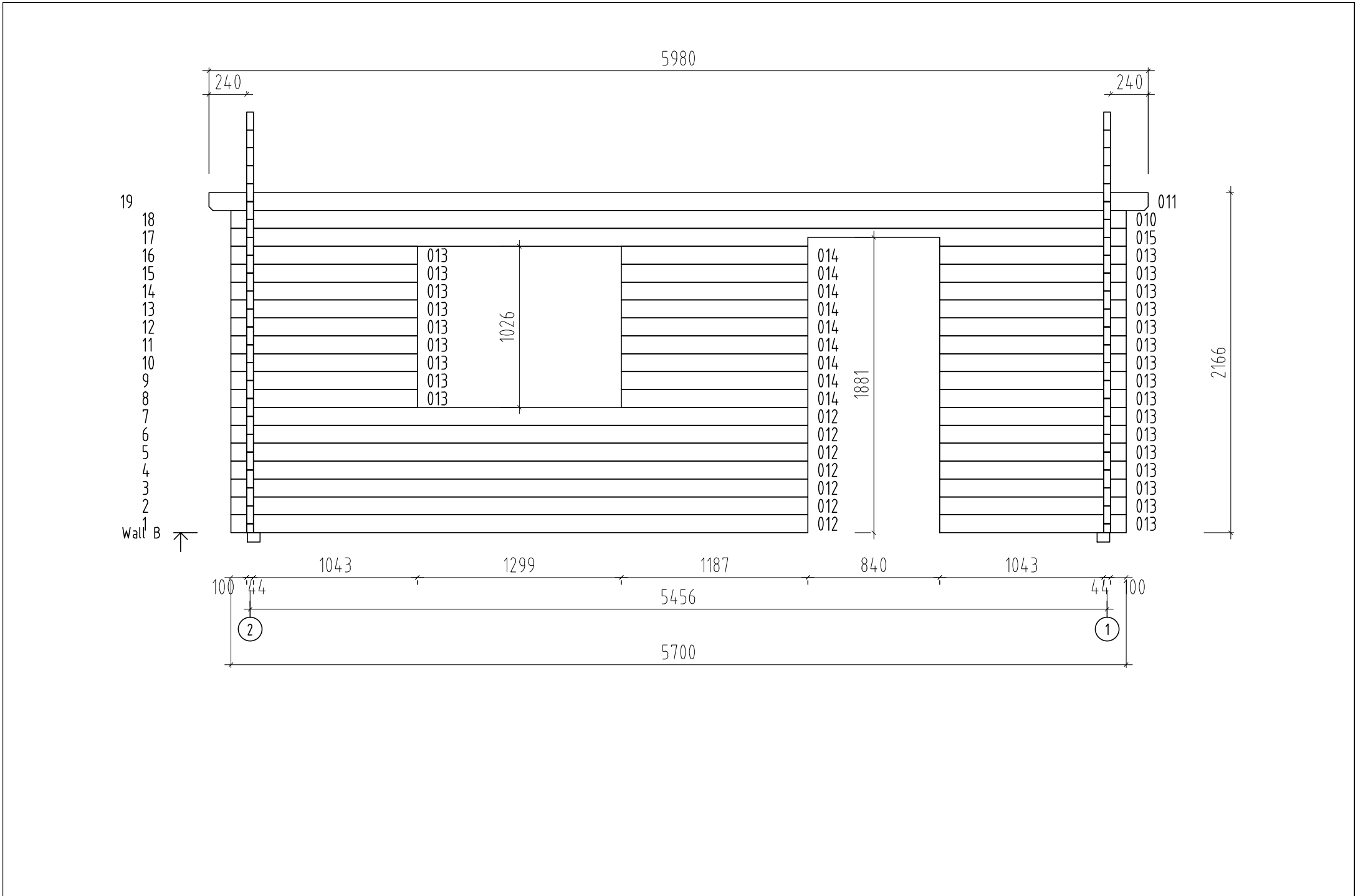


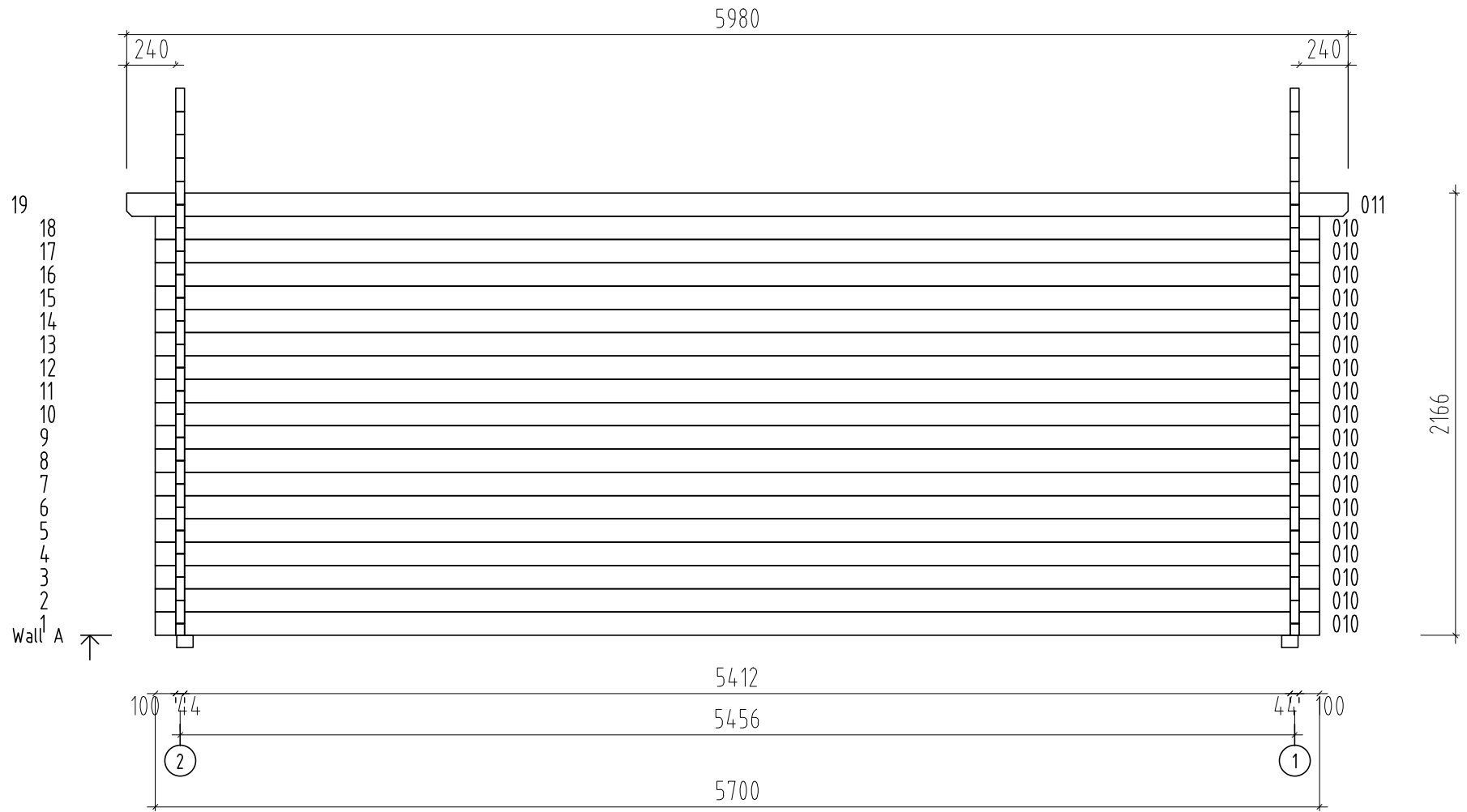


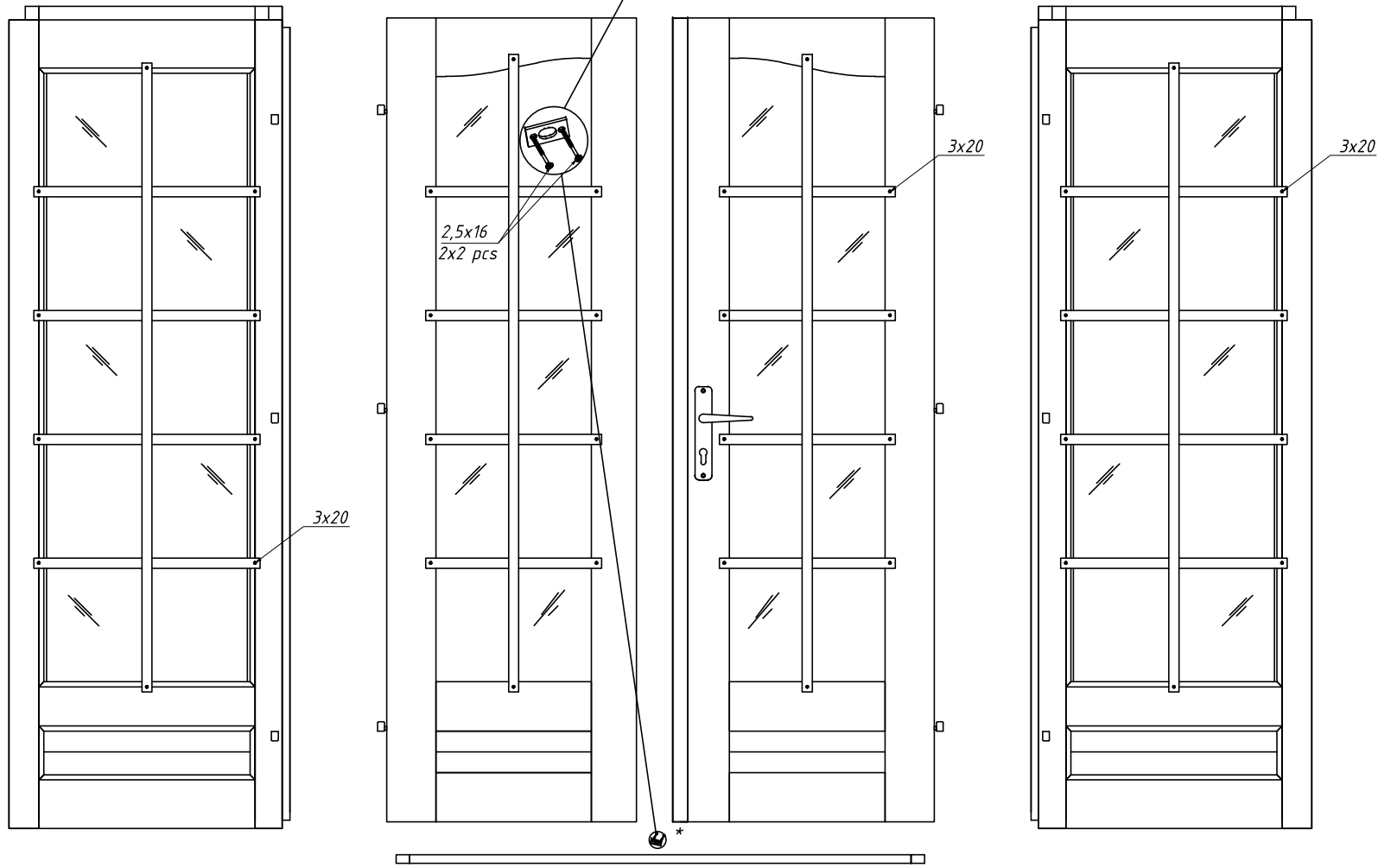
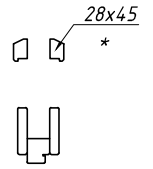
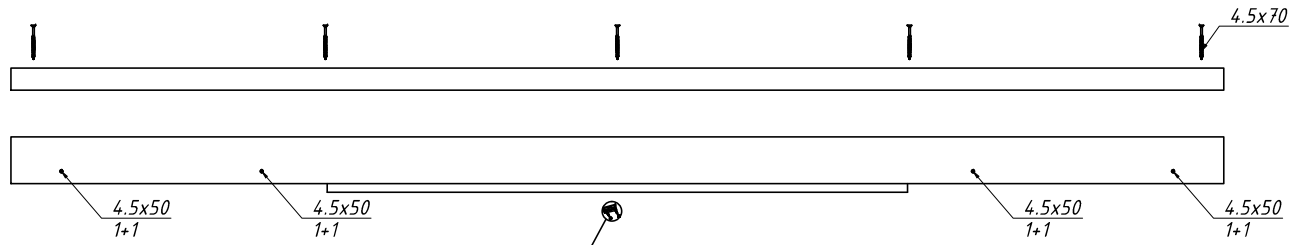
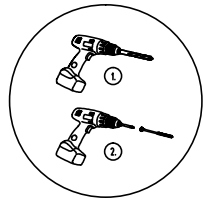












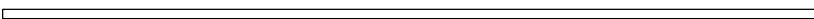









4.5x50

4.5x50

\* The specification may vary depending on the specific model

\* Die Spezifikation können je nach Modell unterschiedlich sein

\* Les spécifications peuvent varier selon le modèle spécifique  
 \* Dependiendo del modelo, la especificación puede cambiar  
 \* Le specifiche possono variare a seconda del modello

Pos	SPECIFICATION-STÜCKLISTE-NOMENCLATURE-ELEMENTI-ESPECIFICACIÓN "LAZFB19-3857-1"	Pcs	Profile (mm)	Length (mm)
AR21	Foundation- Fundament- Fondation- Fondazione- Vigas de cimentación 2 	5	80x60	5250
AR22	Foundation- Fundament- Fondation- Fondazione- Vigas de cimentación 2 	1	80x60	3430
FB2-1	Floor board- Fussbodenbrett- Madrier du plancher - Tavola pavimento- Tabla de suelo 	61	89x19	3505
FIB2-1	Floor beading- Fussbodenleiste- Baguette du plancher- Listello pavimento- Listón de suelo 	7	19x19	2706
Sla10-1	Slat- Leiste- Baguette- Listello- Listón 	1	19x45	840
Sla10-2	Slat- Leiste- Baguette- Listello- Listón 	1	19x45	2400
Fim	-Fixing kit- Befestigungsset- Moyens de fixation- Materiale di fissaggio- Kit de fijación 	1	USE	
QNA1 4x40M	Nail- Nagel- Clou- Chiodo- Clavo- 1.4x40mm 	50	FIB2-1	
QNA2 2x50Zn	Nail- Nagel- Clou- Chiodo- Clavo- 2.5x50mm 	450	FB2-1	
QKR6x 120ZN	Screw- Schraube- Vis- Vite- Tornillo- 6x120mm 	12	ARx	

