






<u>PRODUCT NAME</u>	<u>ALTO</u>
<u>REFERENCE NUMBER</u>	

No.	Size, mm			Detail stock	Details	Annotation Wall
	Length	Width	Thick			
1	5200	65	43	1		Wall A
2	3157	130	43	12		Wall A
3	623	130	43	3		Wall A
4	1624	130	43	3		Wall A
5	1183	130	43	15		Wall A
6	5200	130	43	12		Wall B
7	5200	65	43	2		Wall B E
8	3517	130	43	3		Wall B
9	773	130	43	3		Wall B
10	2025	130	43	3		Wall C
11	3025	130	43	3		Wall C
12	5960	130	43	12		Wall C
13	758	130	43	11		Wall D
14	635	130	43	11		Wall D
15	2784	130	43	4		Wall D
16	2316	130	43	7		Wall D
17	498	130	43	8		Wall D
18	428	130	43	8		Wall D
19	3985	130	43	1		Wall C
20	3985	130	43	1		Wall D
21	2314	130	43	2		Wall C D
22	943	130	43	15		Wall E
23	1123	130	43	52		Wall E G H
24	1414	130	43	15		Wall E
25	2246	130	43	21		Wall F
26	2246	130	43	1		Wall F
27	1123	130	43	1		Wall H
28	1123	130	43	1		Wall H
29	1543	130	43	8		Terrace
30	300	130	43	6		Terrace
31	203	130	43	12		Terrace
32	203	130	43	2		Terrace
33	203	130	43	2		Terrace
34	200	130	43	6		Terrace
35	5200	780	43	1		Roof frame triangle
36	5200	780	43	2		Roof frame triangle
37	3985	130	60	1		Rafters
38	2314	130	60	1		Rafters
39	4257	130	60	1		Rafters
40	4257	130	60	3		Rafters
41	2586	130	60	4		Rafters
42	2850			35,91 m²		Roof boards
43	3660	100	22	40		Floor boards
44	2620	100	22	10		Floor boards
45	1990	100	22	50		Floor boards
46	990	100	22	10		Floor boards
47	1545	105	22	37		Terrace floor boards
48	2950	105	20	4		Wind boards
49	2975	105	20	4		Wind boards
50	2975	60	16	4		Wind board supporters
51	3150	105	20	4		Roof plank
52	3150	35	25	4		Roof plank
53	3150	60	18	8		Roof plank borders
54	4954	35	25	2		Floor trims
55	1000	35	25	5		Floor trims
56	2628	35	25	2		Floor trims
57	2000	35	25	5		Floor trims
58	3671	35	25	2		Floor trims
59	1500	35	25	2		Floor trims
60	950	105	22	4		Terrace connection board
61	1623	105	22	2		Terrace cover board
62	5040	70	50	13		Foundation
63	3757	70	50	4		Foundation
64	1920	850	43	4		Doors
65	1400	1380	43	1		Windows
66	1010	1380	43	1		Windows
67	360	900	43	3		Windows

Screws			Nails		
	3.5x5	For windows and doors		2.5x6	For boards
	3.5x3	For roof decorative parts			

IMPORTANT (Read carefully before starting)!

- The following instructions include both pictures (indicating every part by the digits – see part list above) and illustrations. Please keep in mind that the illustrations are just a general guide to assembling all our products (For example: The illustration on how to assemble a roof applies to all our roofs). However specific models will vary in the quantity of materials needed. By closely consulting the part-list, you will know how many parts you need for each stage of the assembly, while the illustrations will show you how put them together.

- If some extra boards are left over after assembling your product, do not worry. We sometimes include extra boards to ensure that the delivery package is perfectly compact and solid.

1. General instructions

Read carefully before starting. First of all, we want to thank you for buying one of our products. Please read these instructions carefully before unpacking the parts.

2. Storing your product prior to assembly.

Your unpacked product must be stored in a dry, ventilated place, where it is protected from the weather (the package is not waterproof) and direct sunlight. The package and parts should be laid flat on the ground in order to avoid any damage to them. We strongly recommend assembling the product as soon as possible after it is delivered, because any complaints regarding missing or damaged parts can only be made up to 10 days after the date of delivery.

3. Safety.

The wooden parts may cause splinters, so please handle them carefully and wear protective gloves. Make sure there are no protruding nails, screws or staples in the assembled pieces. Always follow the instructions carefully and keep to the order of steps.

4.Assembly.

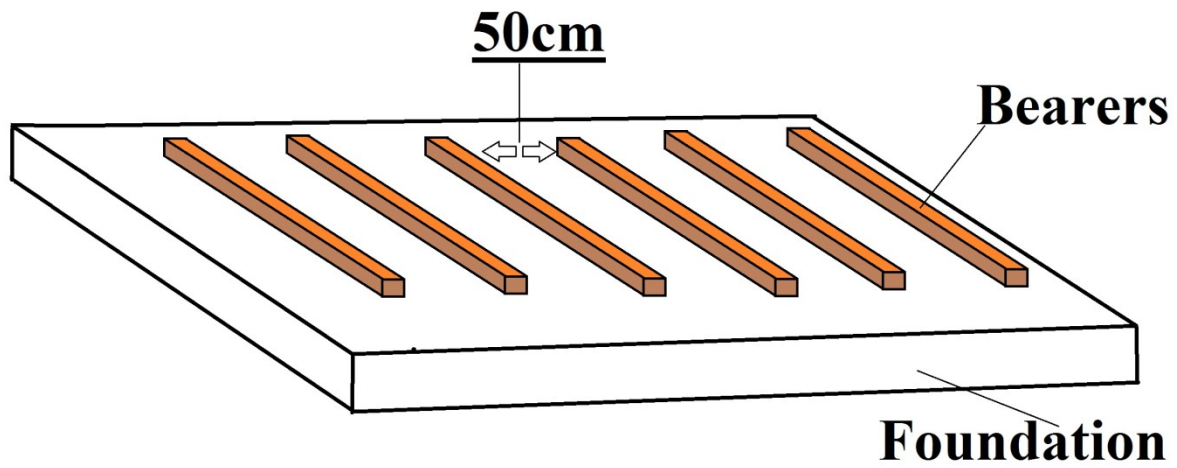
During the installation process constantly check that everything is level and parallel. For all parts that need to be assembled using screws, it is advisable to pre-drill holes to avoid the risk of splitting the wood during screwing.

4.1. Familiarize yourself with the parts. All parts are numbered, so start by checking that all parts are present by matching them off against your instruction manual. We recommend you sort the parts into separate piles. You will need a rubber hammer, electric screw-driver and anchor screws.

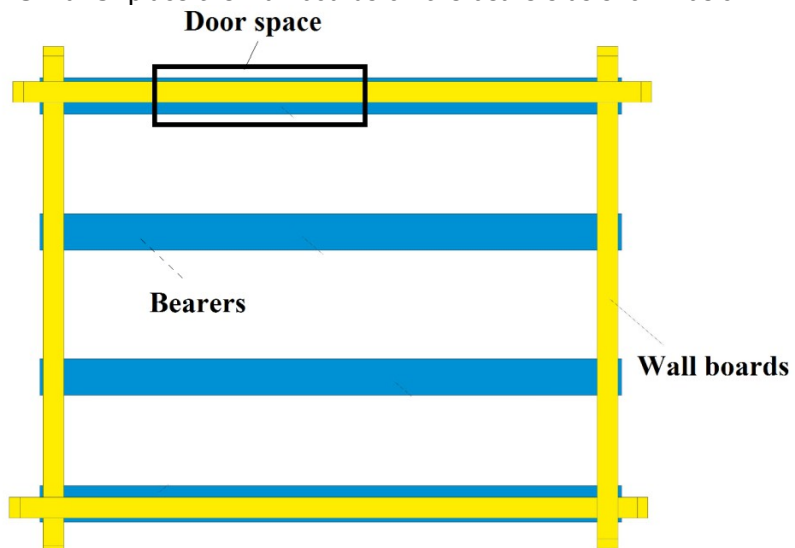
4.2. Foundation. Before starting the installation, make sure that the building surface is perfectly flat and level. Lay the foundation elements (PVC blocks, concrete slabs, etc.) For floorless models, the foundation should be at least the same size or larger (recommended) than the external dimension of the structure.



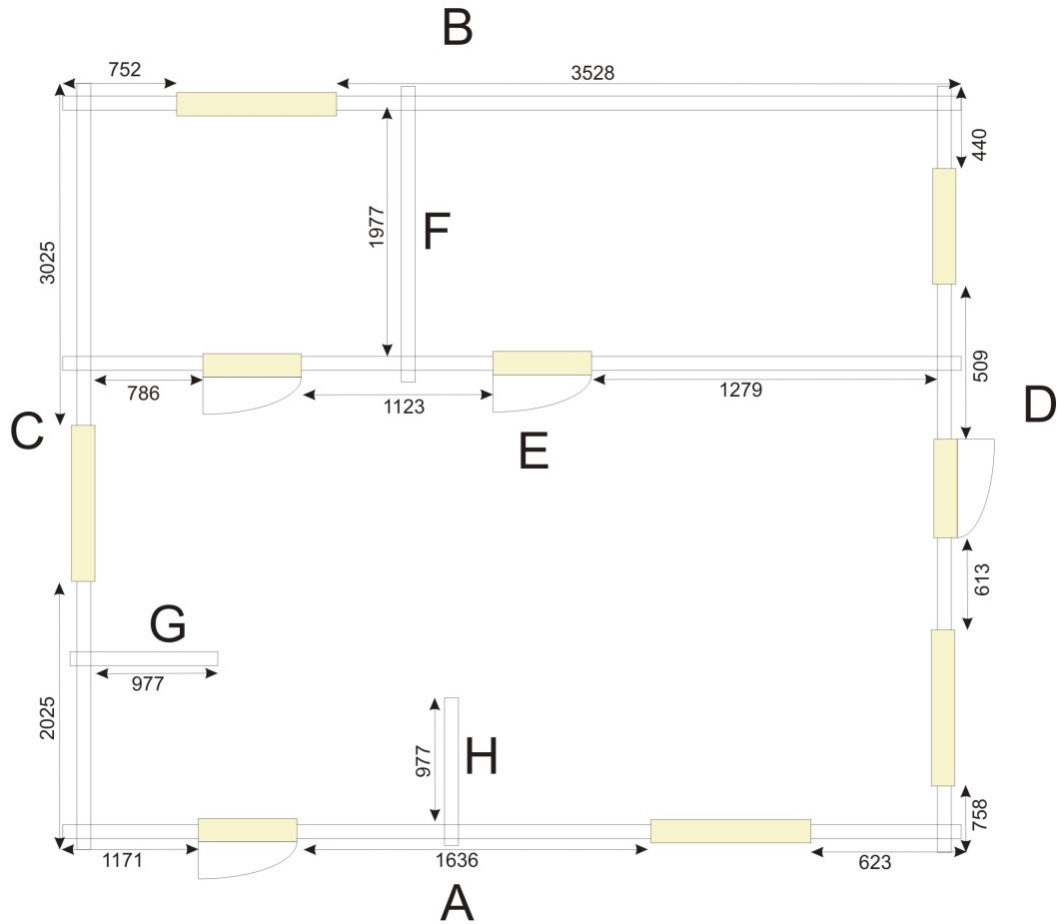
4.3. Bearers. The bearers must be placed according to the picture below (general sample) with gaps of around 50cm between each other. Screw the bearers into the foundation with anchor screws.



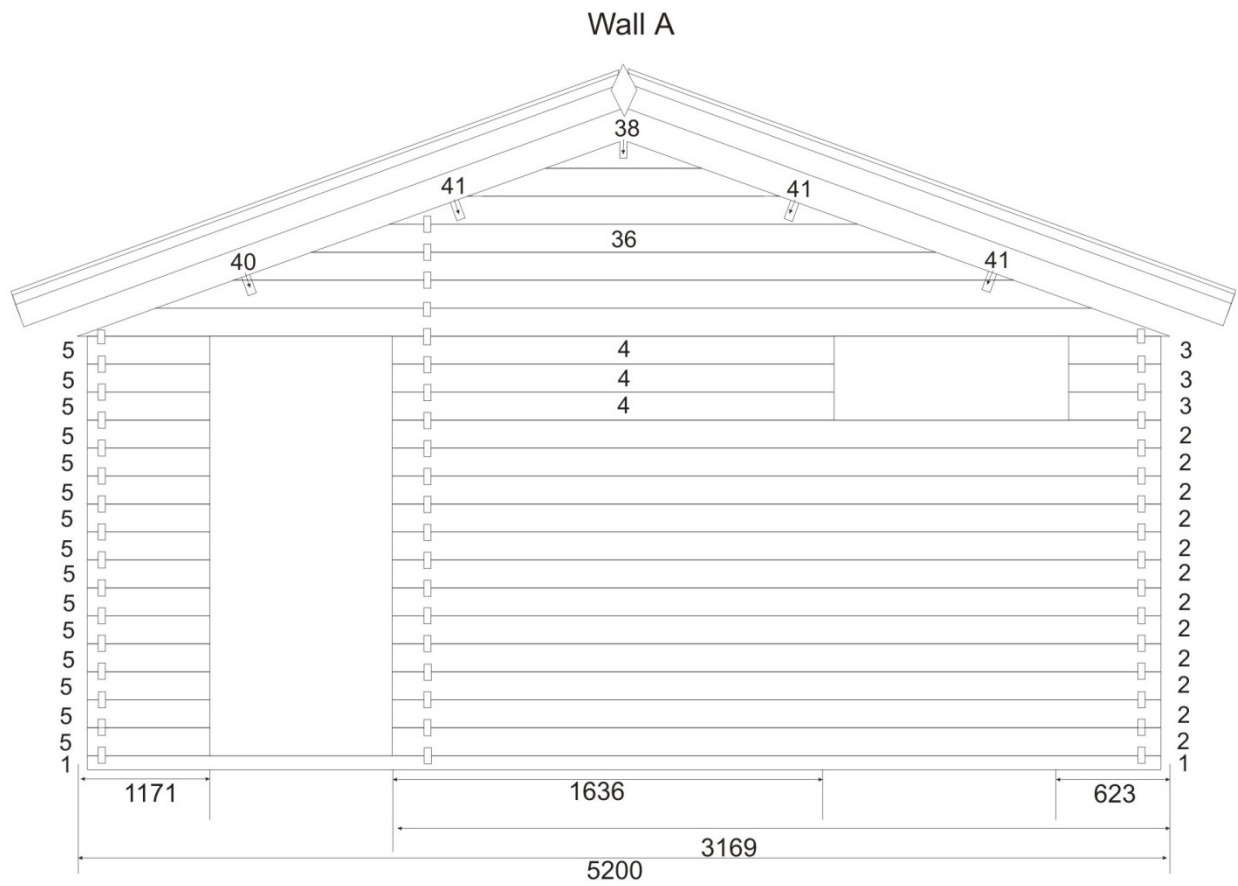
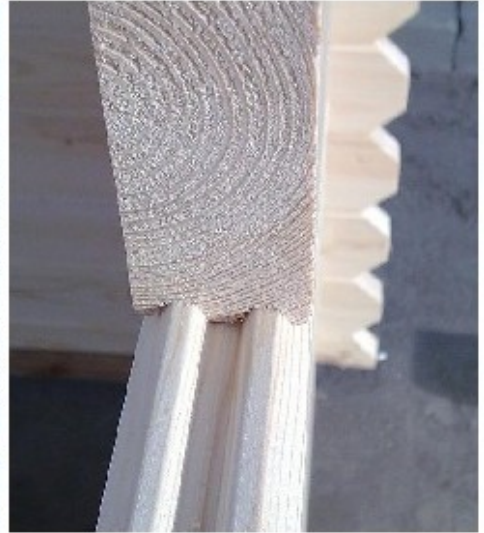
4.4. Assembling the walls: place the wall-boards on the bearers as shown below:

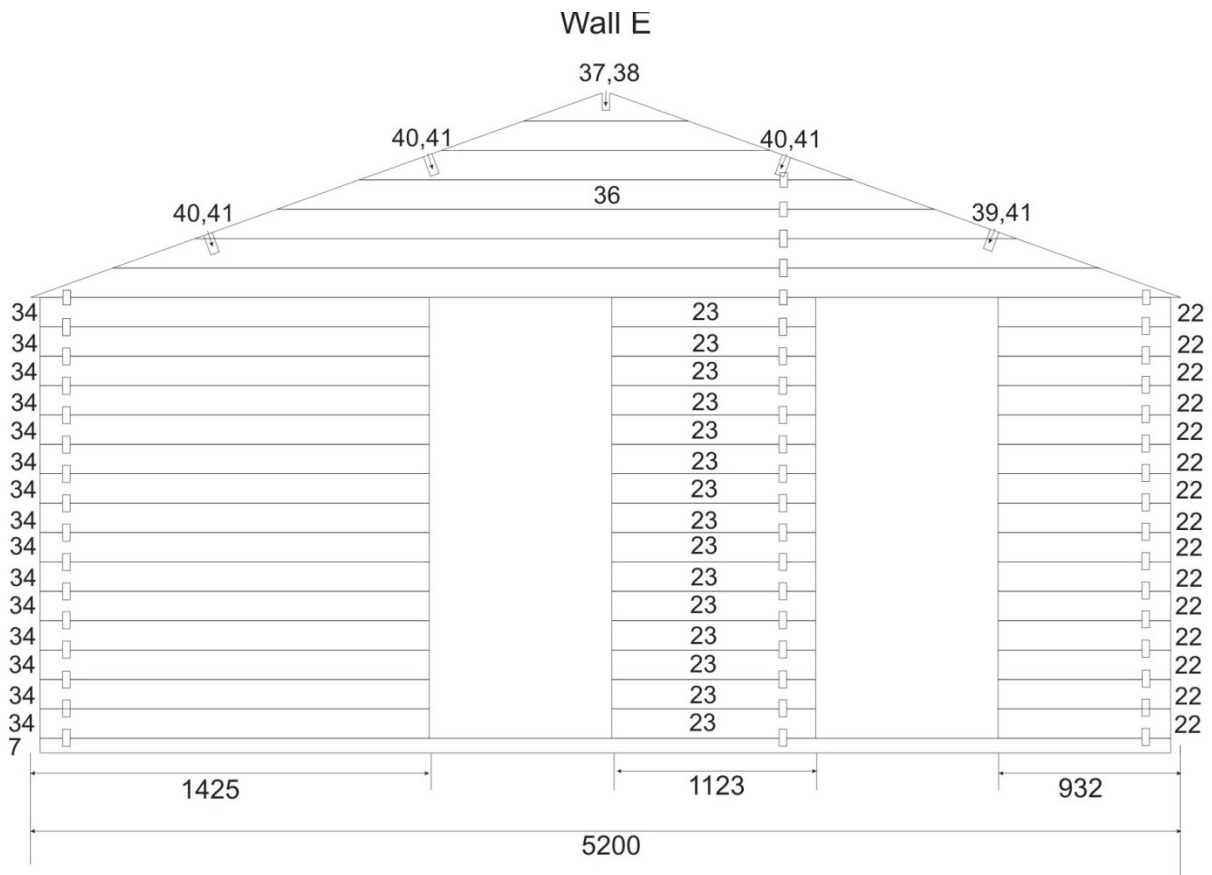
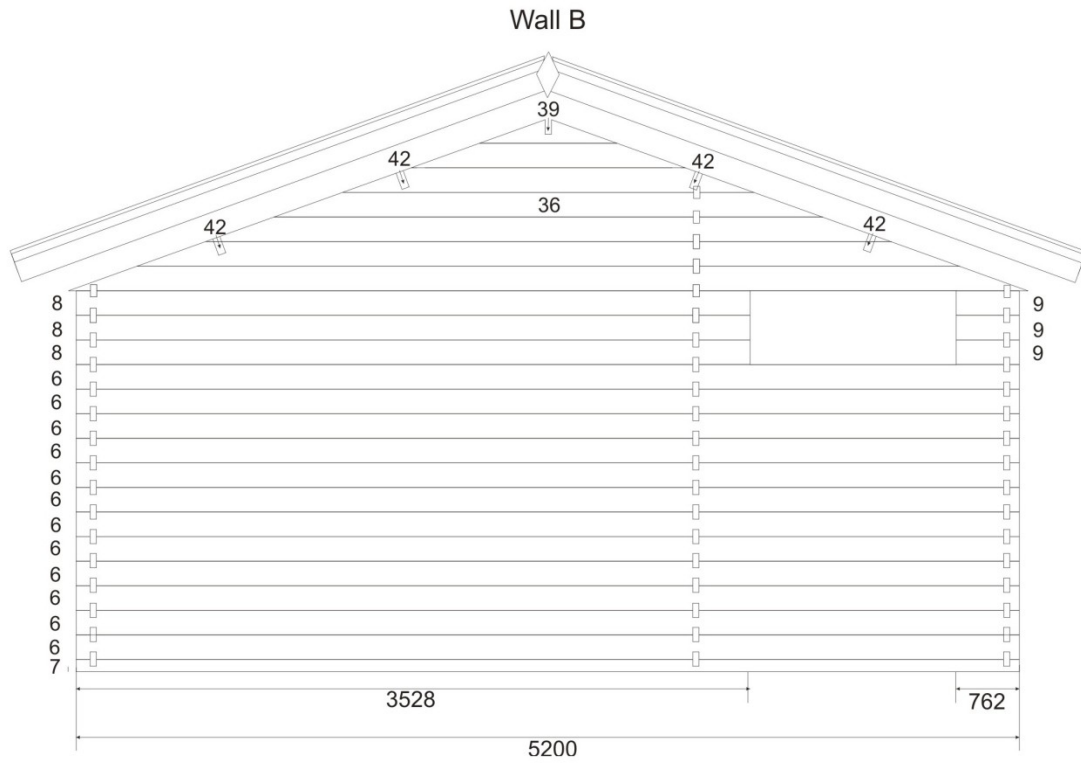


The actual plan of the structure:

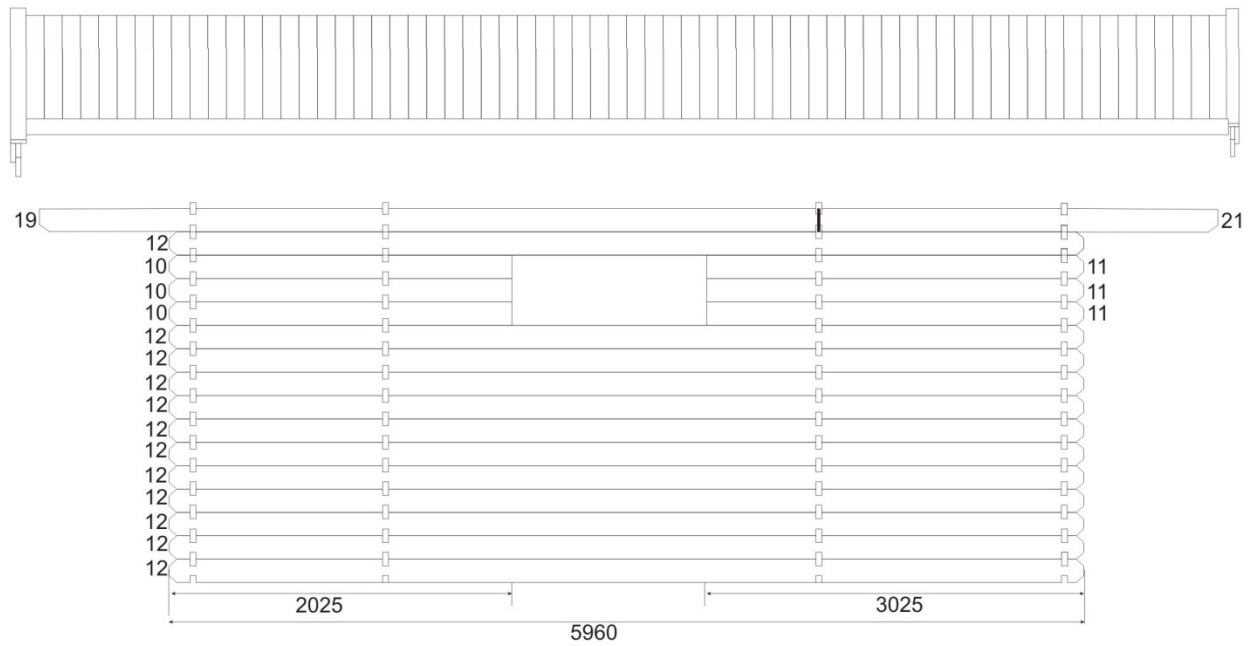


The wall-boards must be placed so that the ends interlock. Now screw the first row of wall-boards into the bearers. All the following rows of placed wall-boards should interlock not only at the ends, but along their length as well. Please screw each new row of wall-boards into the former row to ensure a solid structure.

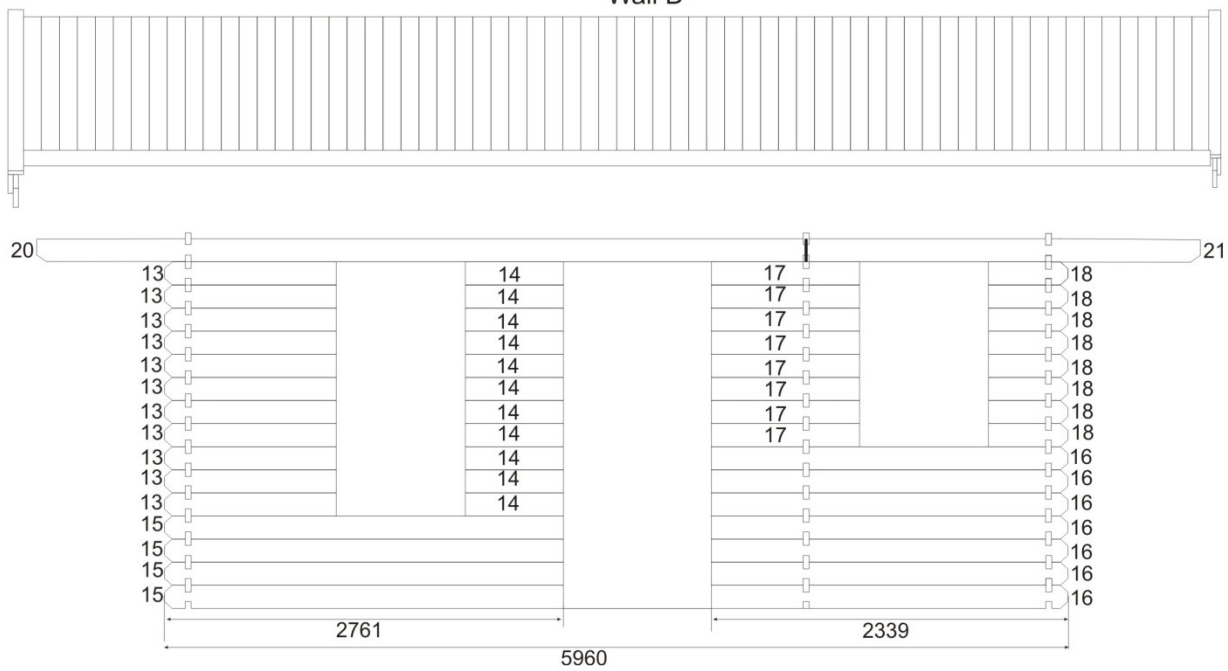


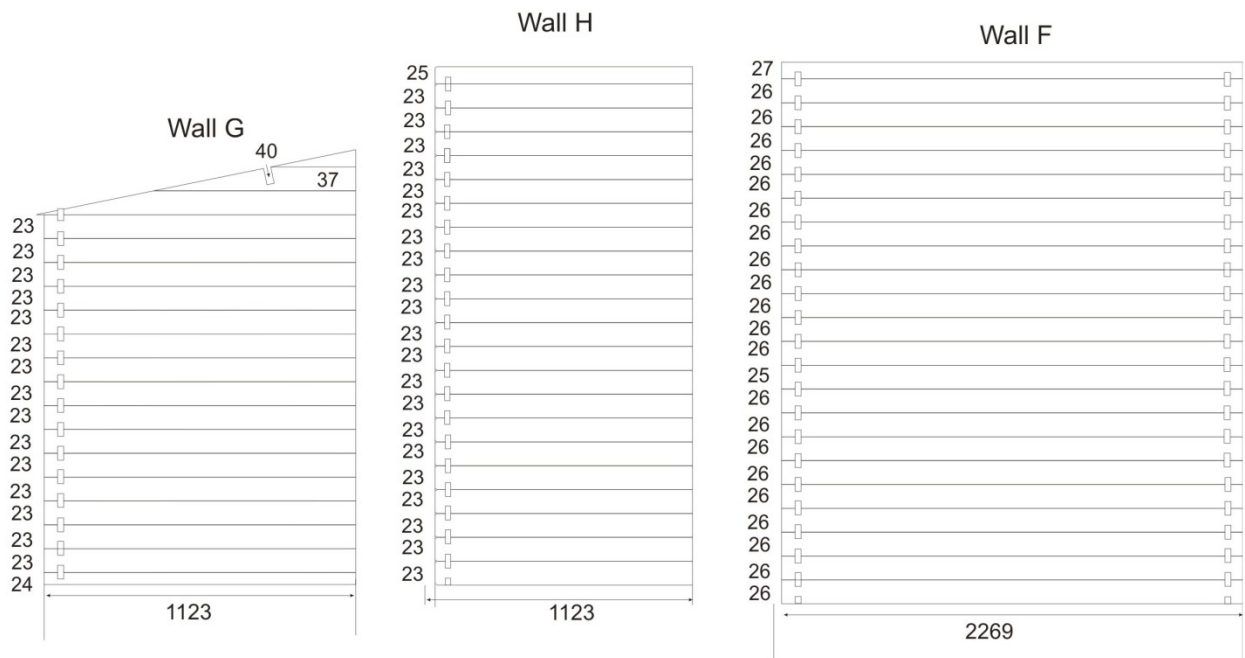


Wall C

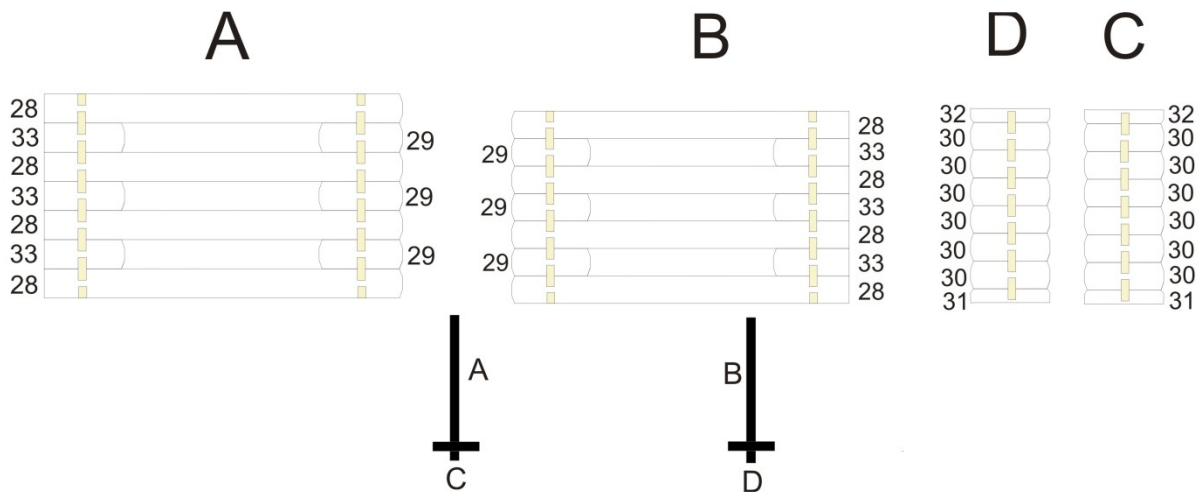


Wall D

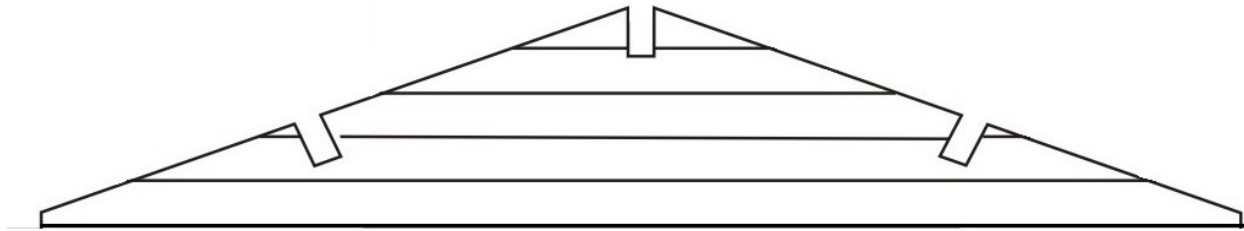




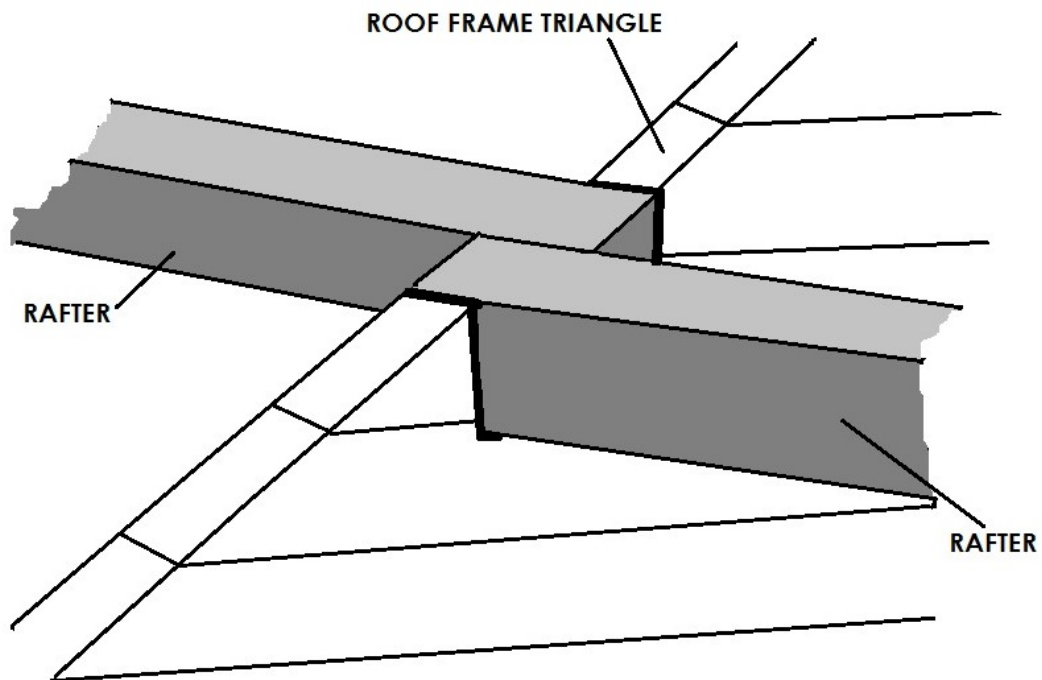
Terrace

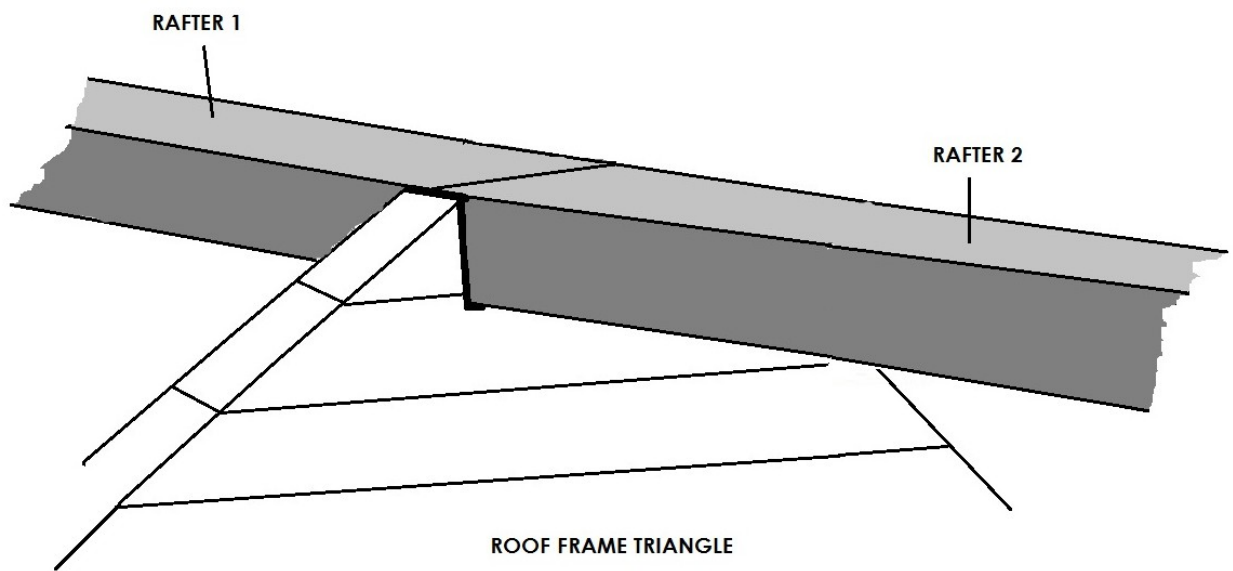


4.5. Roof frame triangles: After the walls are assembled, mount the roof frame triangles. These should be mounted as whole structures.

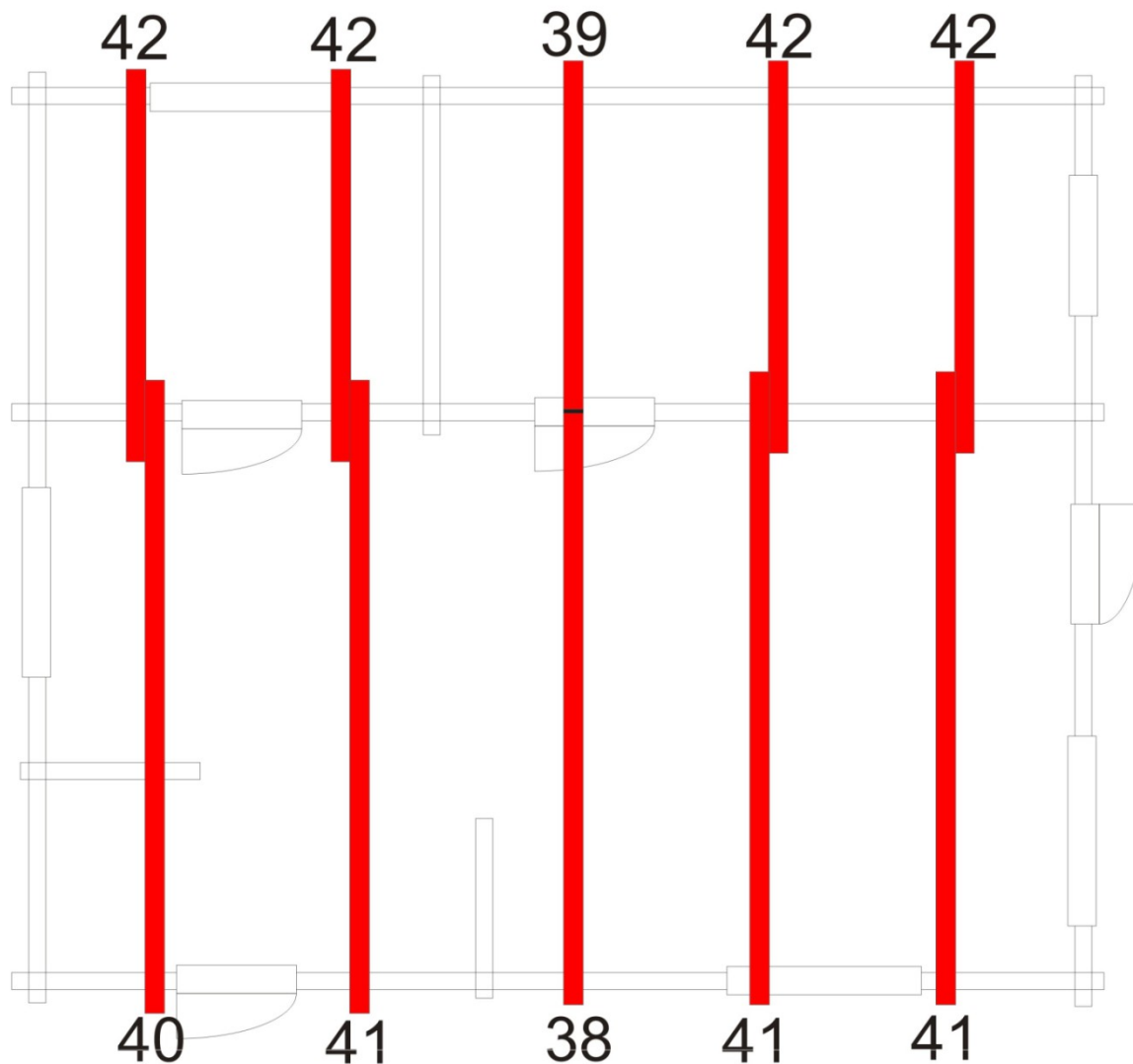


4.6. Rafters: The rafters must be mounted horizontally and inserted in the mounting-spaces found on the roof frame triangles. The rafters share a common mounting-space in the middle one of the three triangles. Here are two types of rafter-mounting shown below:

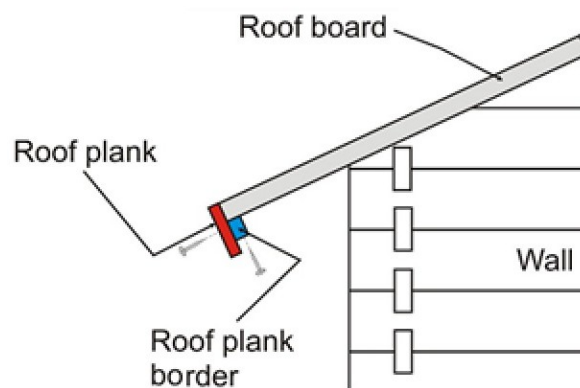




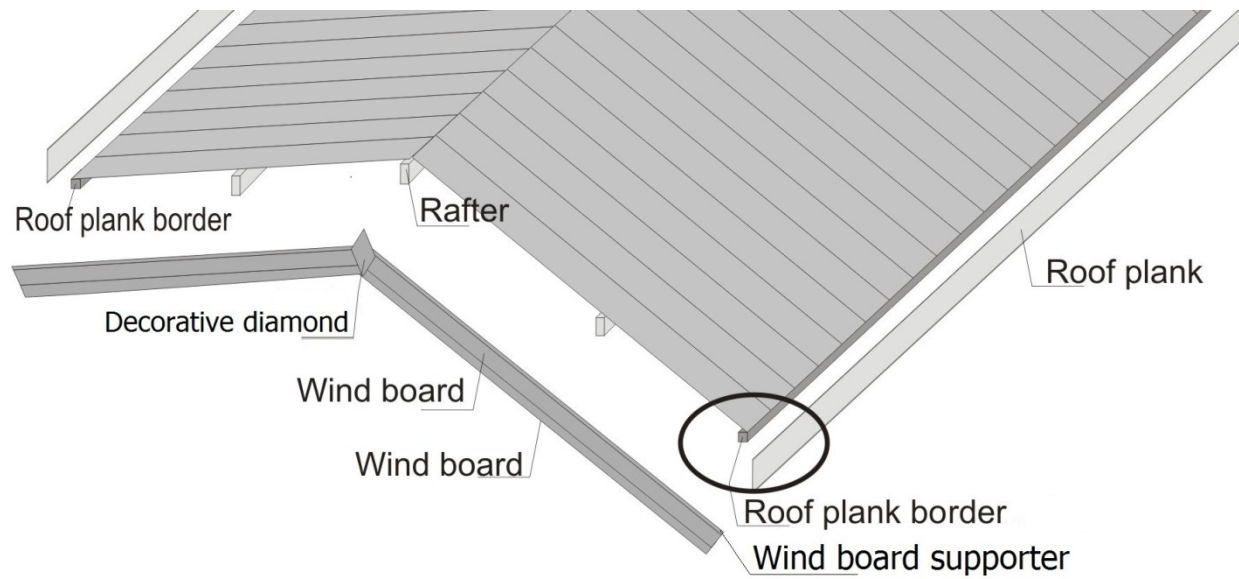
The actual plan of the rafters:

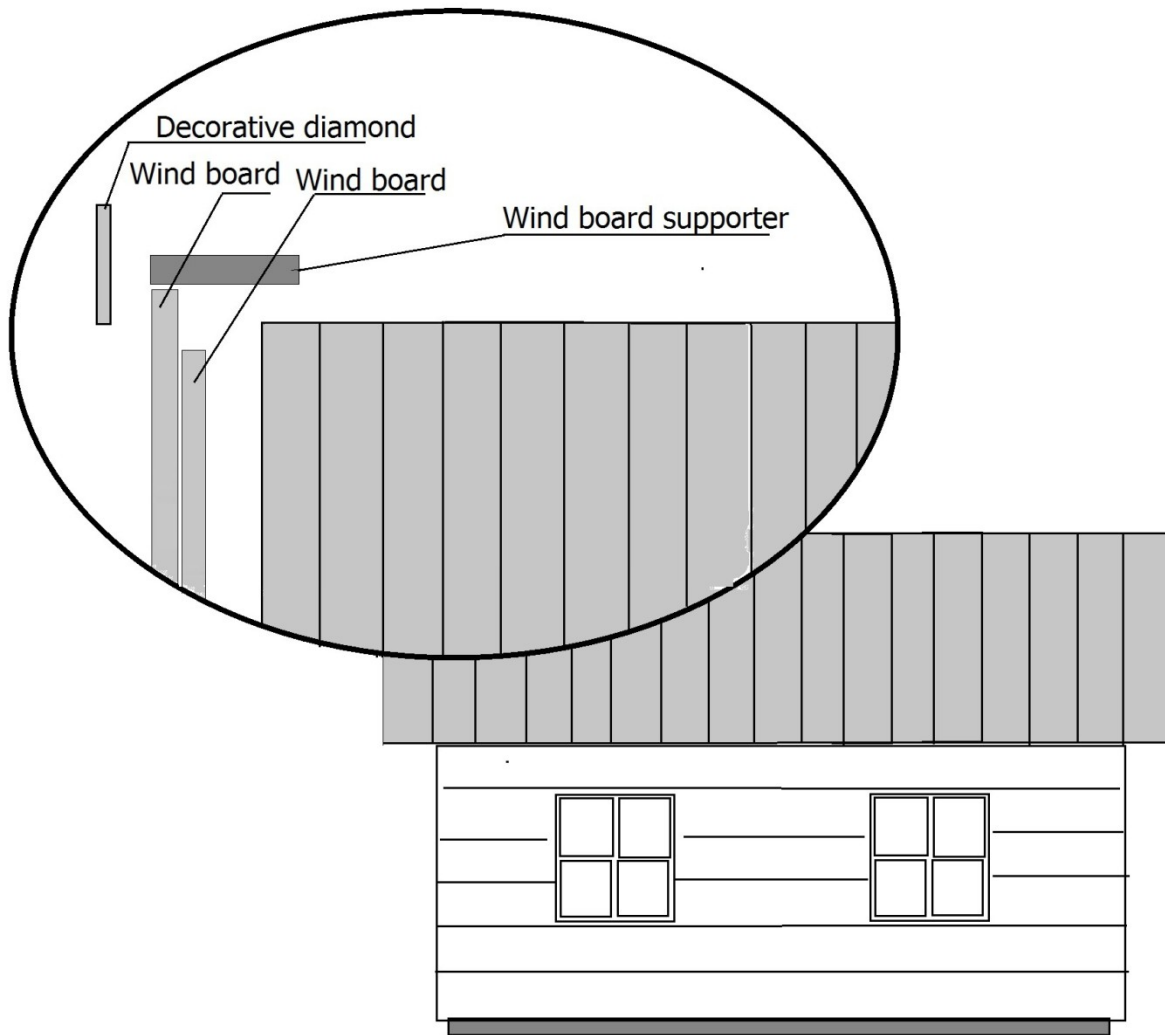


4.7. Roof-boards: The next step is to attach the roof-boards vertically and screw them into the rafters. Make sure the ends of the roof-boards are perfectly parallel to each other. Then fix the roof plank boarder under the roof-boards as show below. The roof-plank must be screwed to the roof plank boarder.

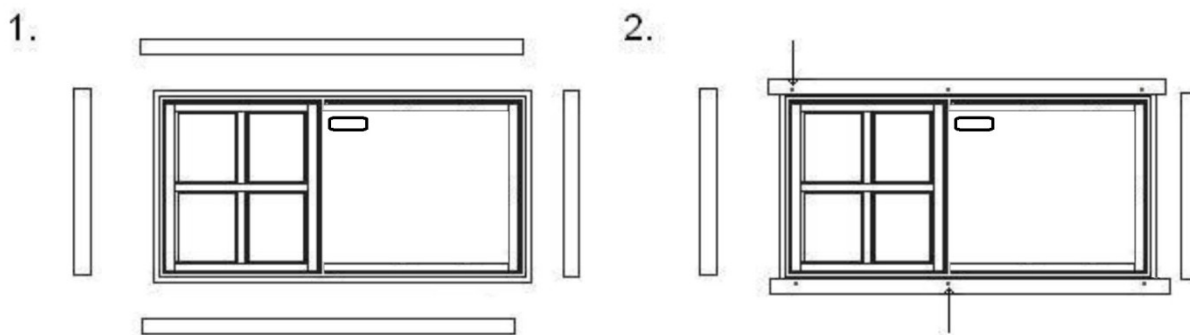


4.8. Wind-boards: Place the wind-boards on top of each other to make a 90 degree angle. Now attach these ones on a roof frame triangle and fix with screws.



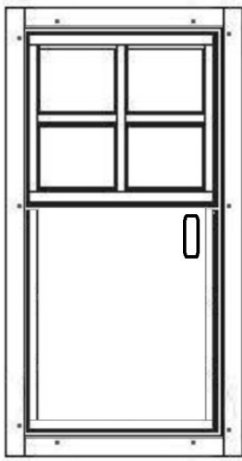


4.9. Door: Screw the support trims in to the door frame:

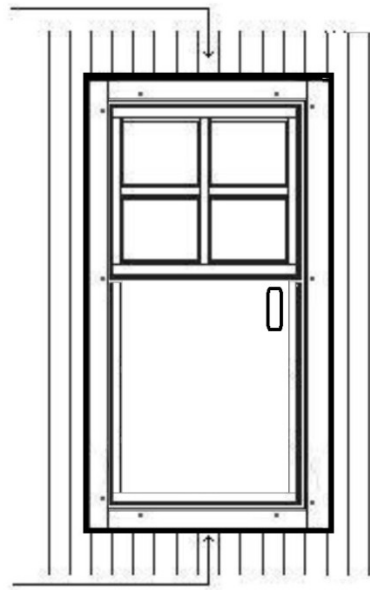


Insert door frame in to its space from the outside of the structure. Then fix the rest of the support trims from inside the building:

3.

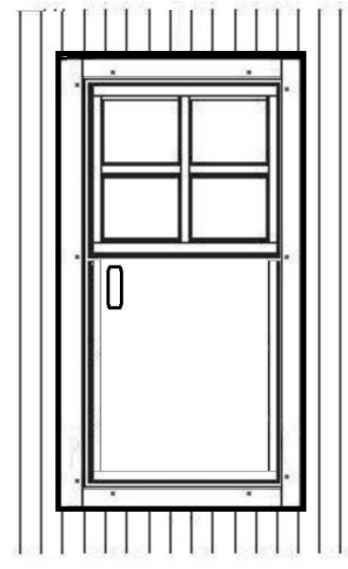


4.



OUTSIDE

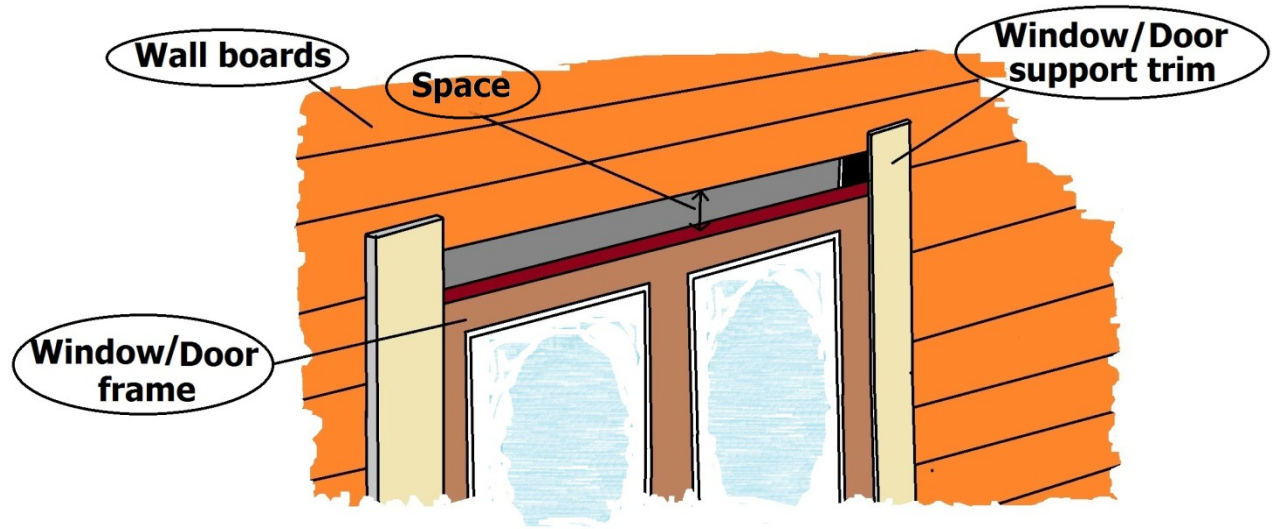
5.



INSIDE

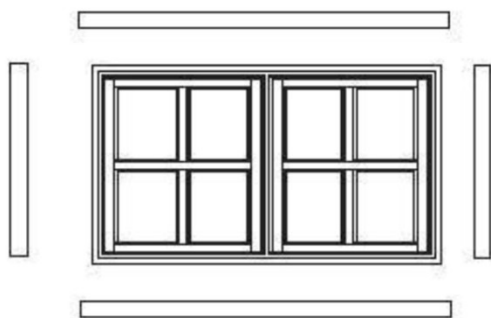
Notice:

- Keep in mind that the support trims must be screwed to the door frames, not to the wall-boards!
- Do not worry about the space between the wall and upper window frame. The wood will naturally contract so that the space should disappear within a month or so. Do not try to fill the space in yourself during the assembly process.



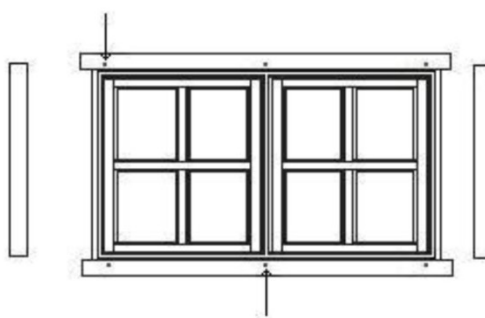
4.10. Windows: The windows must be installed in the same way as the door:

1.



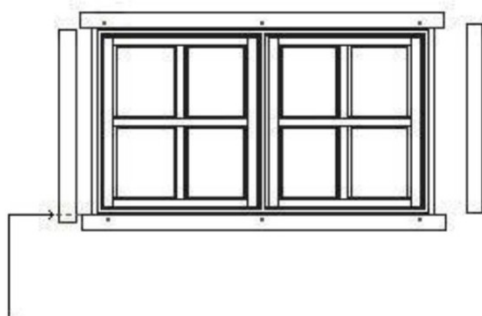
Place the window frame and four support trims on the stable surface.

2.



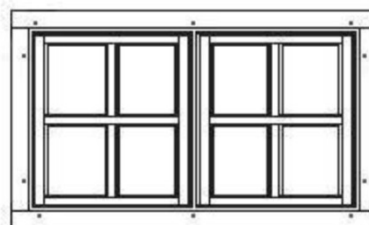
Drill the holes in the support trims and screw them in to the window frame.

3.



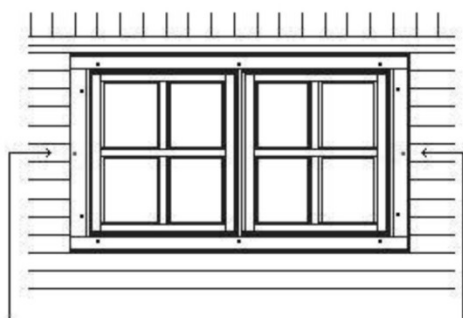
Cut the support trims if necessary

4.



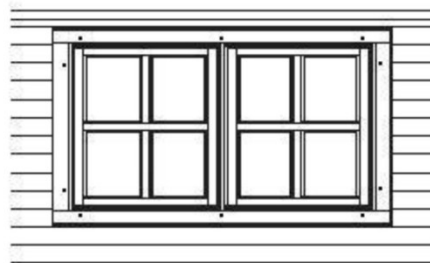
All four support trims are fixed

5.



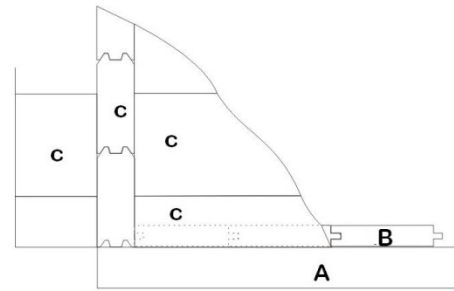
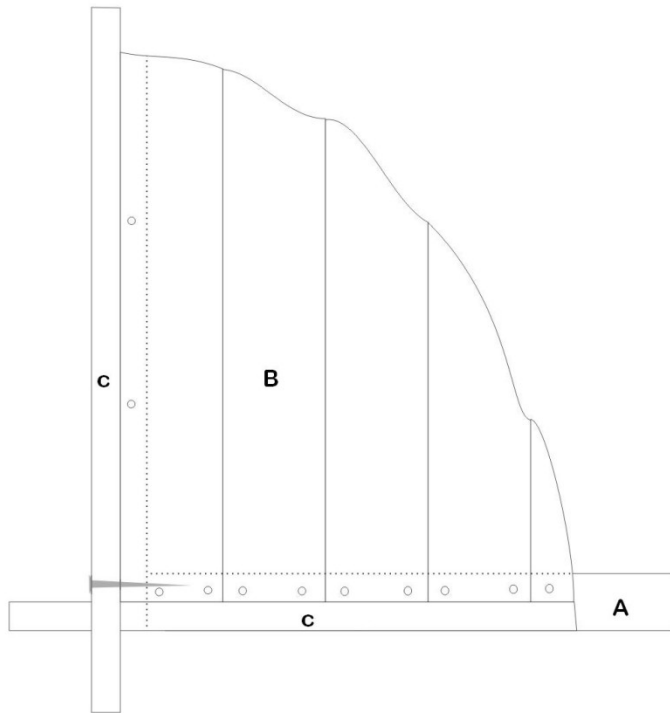
Just insert the window frame in to the space (no screwing)

6.



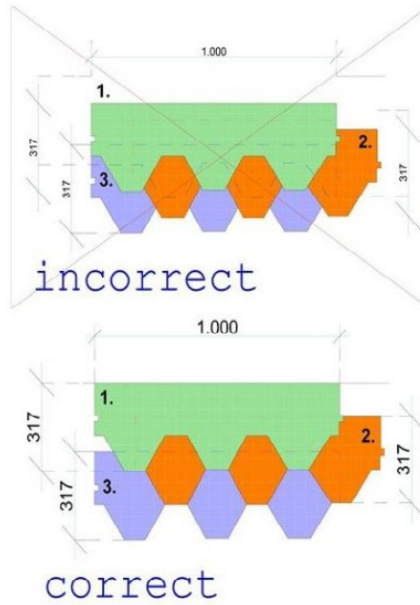
Now screw the rest four support trims in to the window frame from the other side.

4.11. Floor: Place the floor-boards across the bearers and screw them in at an angle. In this way you will have a screw-free clear floor. After the floor-boards are mounted, screw the floor-boards decorative trims in to the floor-boards.



A, - Bearers
B, - Floor-boards
C, - Wall-boards

4.12. Felt roof shingles: When the whole structure is assembled and has been treated, attach the felt roof shingles to the roof-boards as shown in the picture. We recommend that you cover the roof only after the structure has been treated.



Treatment. It is important to treat the product using a quality wood-preservative instantly after the assembly process is finished. Apply at least 2 coats to the outside and 1 to the inside. Repeat annually.

Assembly notice – keep for later reference.

We hope you enjoy your purchase.

Sincerely yours
DHHC ApS team