HIIICREST LOFT SD | MANUAL

Welcome to your new structure! Assembly is relatively simple, take your time to review this manual and enjoy building your new log cabin structure that is certain to bring you a lifetime of cherished memories.

QUICK OVERVIEW

Your Sawmill Structure log cabin kit comes to you very neatly and uniformly packaged on a rectangular pallet. The entire kit is already precision milled to fit together perfectly with minimal fasteners. All of the main pieces are also individually ID numbered so it's easy for you to understand where everything goes when you assemble it.

We include everything essential for you to create your cabin structure. The contents of the kit include our industry leading premium InterStack log wall system, beautiful tongue and groove wood plank flooring, pre-assembled gable ends, sturdy roof beams, tongue and groove roof ceiling planks plus all the windows and doors and trim.

The majority task to assemble your structure is simply stacking up the log wall system.

After you have stacked up the walls you can install the wood plank flooring, add on the pre-assembled gable ends and roof beams, apply the roof ceiling planks and pop in the windows and doors and you are done!

The entire structure can be assembled in as little as one day. Our kit systems are designed so there is no interior wall finishing required, once assembled everything inside and out is finished in beautiful aromatic natural timber. Your new structure is extremely well engineered and durable and with normal care it can last for generations.

All you need to supply for assembly is the people power plus provide your choice of roof covering material such as shingles, steel or our personal favorite ONDURA roof panels.

- · You will also need to provide a level foundation base to assemble your structure on top of.
- Finally add a coat of exterior weather protection such as www.cutekstain.com after assembly is complete (More information provided on foundations and ONDURA roof panels as your read on)

You will notice there are some extra pieces of lumber in your kit, we use extra wood to neatly stack the contents of the kit so don't worry, just assemble the parts you need.

*Helpful Hint: Use the extra packing pieces of the InterStack log wall system as a buffer when using your rubber mallet to tap down the log walls on top of each other.

TOOLS YOU NEED FOR ASSEMBLY

- Hammer
- Rubber Mallet (To set the stacked logs on top of each other)
- Level
- Measuring Tape
- Cordless Screw Driver
- Nail gun (optional)
- Ladder
- Hand saw or circular saw for trim.



HIIICREST LOFT SD | FOUNDATION BASE INFORMATION

FOUNDATION INFO

Before you start you will need to provide a solid & level foundation base to assemble your structure on top of. Many types of foundation bases can be utilized as listed below.

Decide which option works best for your building site & budget.

Typically a simple wooden deck base foundation made from pressure treated lumber resting on grade with deck block footings or sono tube or screw pile footings is very suitable.

TYPES OF FOUNDATIONS TO CHOOSE FROM

- Wood deck base frame on grade with deck block footings or sono tube or screw pile footings
- Level Patio Stones
- Existing deck suitable to support the weight of the structure.
- Asphalt pad
- Concrete slab

FOUNDATION SIZE FOOTPRINT: 110.5" x 110.5"

- EXACT FOUNDATION BASE SIZE REQUIRED FOR HILLCREST LOFT IS 110.5" X 110.5"
- WEIGHT OF THE HILLCREST LOFT IS 2700 lbs (PLUS ROOF MATERIAL)
- The foundation base size indicated above is specific the model you have purchased.

WOODEN DECK BASE PLAN

WE HAVE PROVIDED A WOODEN BASE FOUNDATION PLAN ON THE FOLLOWING TWO PAGES OF THIS MANUAL FOR YOUR CONSIDERATION.

THIS PLAN IS ALSO AVAILABLE FOR DOWNLOAD ON OUR WEBSITE IF YOU WOULD LIKE TO SHARE IT WITH A PROFESSIONAL.

HIIICREST LOFT SD | WOODEN FOUNDATION BASE PLAN • PART ONE

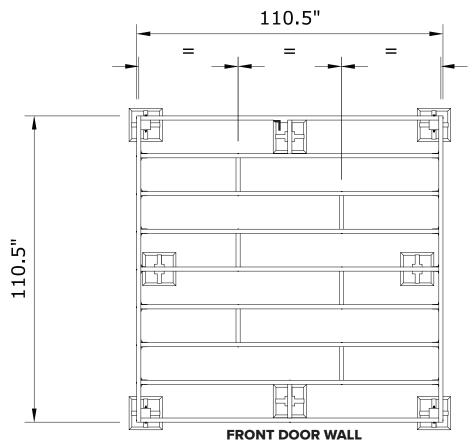
EASY TO BUILD BASE PLAN

The following plan is intended to assist you in building a wooden foundation base frame for the model structure you have purchased. The footings we have indicated on this plan are pre formed cement deck blocks. This base & footing method can work on fairly level building sites with decent drainage and well packed soil. You may need to add limestone screening under the deck blocks or add 4 x 4 corner posts to level your base as needed.

You may also elect to use an alternate footing solution such as screw piles or sono tubes, be sure to explore your options and choose the best type of footings to suit your sites grade and soil conditions.

This wooden base plan is sized 110.5" wide x 110.5" deep to fit the footprint of your structure exactly

- If you wish to incorporate any outdoor deck space such as a front or side porch area to your foundation base you will still need to provide support footings to the structures footprint.
- It may be wise to add your extra porch space after you have finished your structure assembly.
- WOOD BASE OUTSIDE MEASUREMENT: 110.5" WIDE X 110.5" DEEP
- STRUCTURE WEIGHT 1250 kg (2750 pounds)
- JOIST SPACING 13.6" ON CENTER
- JOIST DIRECTION: PARALLEL TO FRONT DOOR WALL
- MINIMUM 8 PERIMETER FOOTINGS
- 2" x 8" or 2" x 6" PRESSURE TREATED LUMBER



HIIICREST LOFT SD | WOODEN FOUNDATION BASE PLAN • PART TWO

MATERIAL LIST

WOOD BASE OUTSIDE MEASUREMENT: 110.5" WIDE X 110.5" DEEP

Suggested lumber to build with is 2" x 6" or 2" x 8" pressure treated.

MATERIALS REQUIRED

- 2 pcs of 110.5" long 2" x 8" pressure treated lumber cut to size
- 13 pcs of 107.5" long 2" x 8" pressure treated lumber cut to size
- 10 pcs of blocking 2" x 8" pressure treated lumber cut to size
- 20 pcs 3" long #8 deck screws to fasten blocking
- 18 joist hangers for 2" x 8" lumber
- 1.25" nails or screws to secure joist hangers.
- * OPTION:

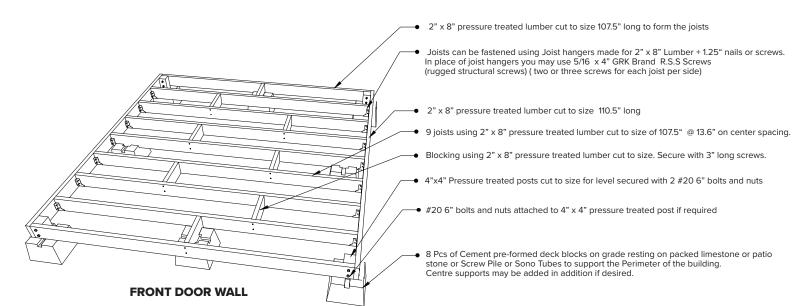
In place of joist hangers you can use the following to secure joists to frame and corners 4" GRK Brand R.S.S Screws (rugged structural screws) two or three screws for each joist side available at most hardware stores

FOOTINGS:

• 8 cement deck blocks on grade with packed lime screening under.

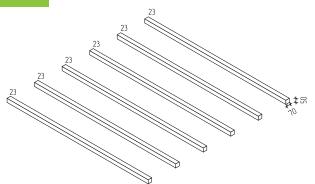
OR choose an alternate footing to suit the needs of your site such as screw piles or sono tubes, bedrock pins etc.

- JOIST SPACING: 13.6" ON CENTER
- JOIST DIRECTION: PARALLEL TO FRONT DOOR DIRECTION.



Now that you have completed your foundation base, its time to assemble your structure. The following pages offer a step by step guide to assembly. Also included in the second half of this manual are elevation drawings and a complete parts list for your reference.

STEP 1



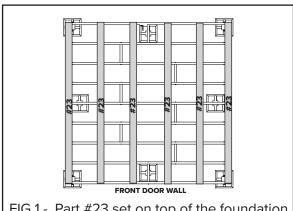


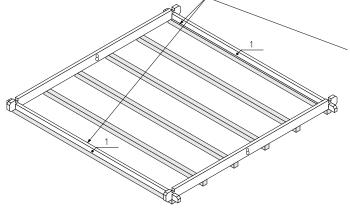
FIG 1 - Part #23 set on top of the foundation base plan shown in this manual.

1) Start by laying down the first layer support strips (part #23) on top of your chosen foundation base. These support strips should run in the OPPOSITE DIRECTION to your foundation base joists and then be secured to the joists with 3" long screws after you have completed step 2 below.

Note: This manual illustrates the direction of the part #23 support strips running parallel to the front door wall, Your flooring boards will eventually be screwed directly to these part #23 in the opposite direction to which you have installed them. The inside of the structure is a perfect square so its a matter of preference the direction you want your floor to lay.

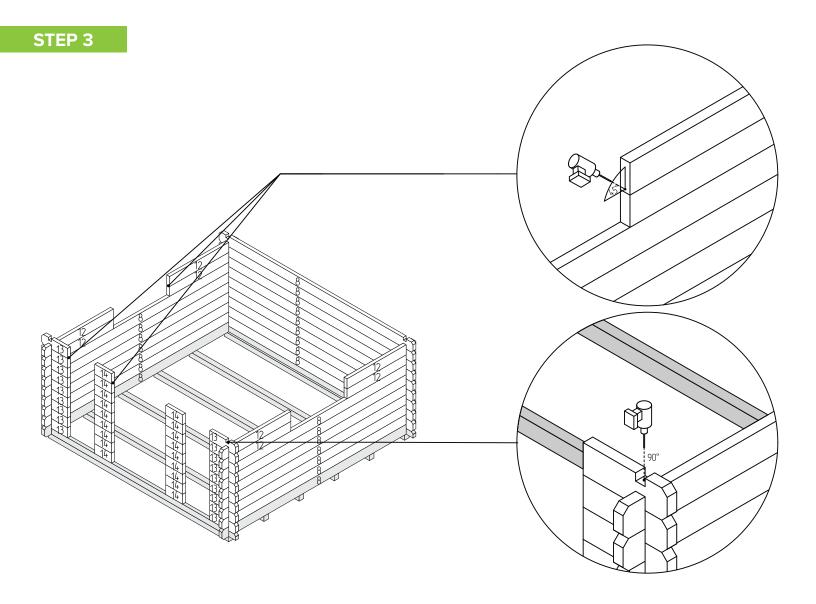
The wooded base plan we have suggested would have your Part #23 orientated the opposite direction to what you see in this assembly manual. See Fig 1 - just note that as you are move along after these steps. Your flooring planks will run parallel to the front door wall if you have used our base plan.

STEP 2



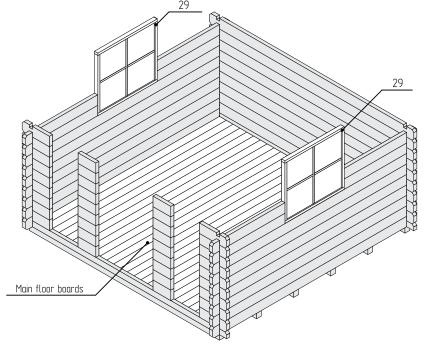
Leave a lip on the edge facing the Inside to support the floorboards.

- 1) Arrange your starter wall logs (part #8 and part #1) on top of the part #23 support strips as shown in STEP 1
- 2) Make sure to orientate the part #1 logs on the wall side you would like your front door and back wall to face.
- 3) Using 3" long screws to fasten parts #23 supprot strips to the foundation base joists and also use 3" screws to fasten the corner of parts #1 and #8 to part #23



- 1) Begin to stack the walls using parts #8 #12 and #13 # 14 as shown.
- 2) Use a rubber mallet and spare piece of log wall to tap down each log firmly in place.
- 3) Fasten each corner down by screwing a 3" long number 8 screw on a 90 degree angle at every corner log notch to secure both pieces together.
- 4) Secure the front wall parts #13 and #14 at every log by screwing a 3" long number 8 screw on a 45 degree angle on the side of each piece.

STEP 4

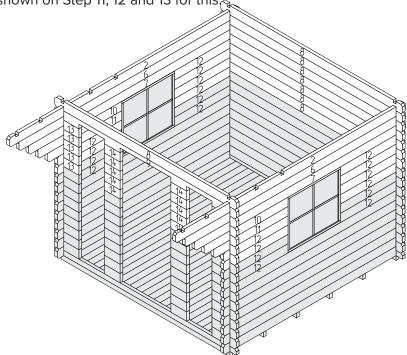


1) Interior floor boards: Screw the main floor boards into the starting strips part#23 using 2" or 2.5" long screws or appropriate nail gun fasteners.

Note: Floor board parts are not ID numbered however should be easily identifiable by size. Note: You may need to rip down the last board. Screw into the face of the boards not the tongue. You may use a nail gun if you choose to tongue nail the floor boards down.

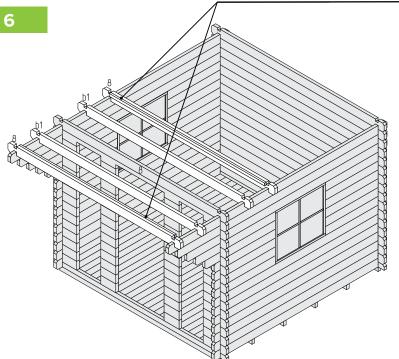
2) Side windows (part #38) will insert into the allocated openings at this stage, However we suggest waiting until the last step to install the windows and doors. Detailed instructions shown on Step 11, 12 and 13 for this

STEP 5



1) Continue stacking and fastening the wall log parts as pictured.

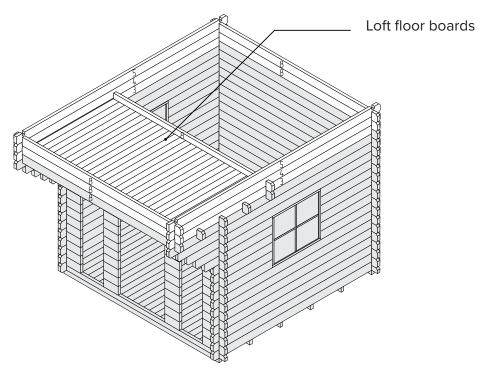
STEP 6



Attach a spare strip of lumber along the face of the two end #8 logs. This will act as lip to support the loft floor boards as they are laid across the two b1 and middle #8 in STEP 7. Note: This part may not be ID numbered in your kit however there is lumber inside the kit to facilitate this piece. Its typically approx 50mm x 70mm x various lengths. You may need to piece a couple of lengths together to make this part.

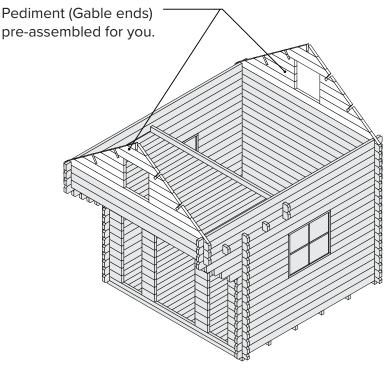
- 1) Insert the loft support logs Part #8 and Part #b1 in the order as illustrated above.
- 2) Attach a flooring lip to the two end #8 pcs as explained above.

STEP 7



- 1) Apply the loft floor boards by screwing into the loft support logs (Part #8 and Part #b1)
- 2) Stack the log walls as shown using parts #3, #4, #5 and #8.

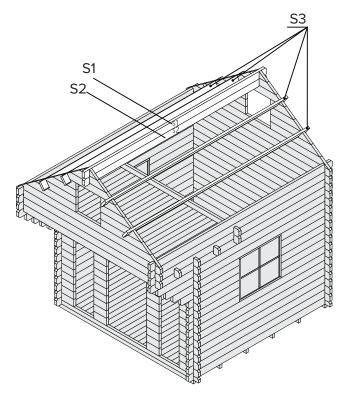
STEP 8



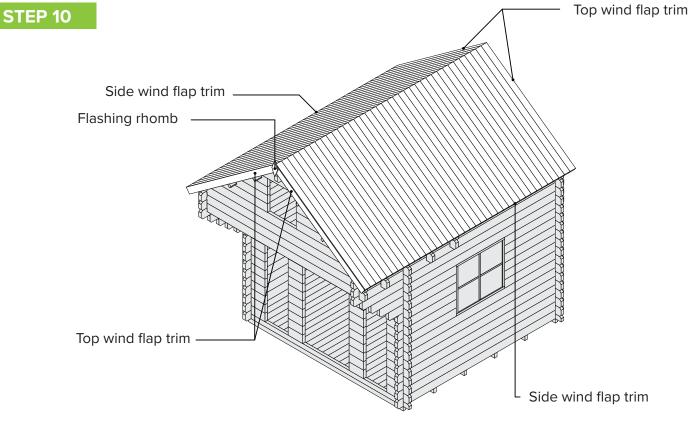
- 1) Insert the pre-assembled Pediments (Gable ends) by resting them on top of the #8 logs you installed in STEP 7.
- 2) Screw a few 3" long screws on a 45 degree angle at the bottom to secure the Pediments (Gable ends) to the #8 logs. When you install the roof rafters this will tie everything together.

Note: The strips that hold the gable end logs pieces together should not be taken off and should be facing the Inside of the structure not the outside.

STEP 9

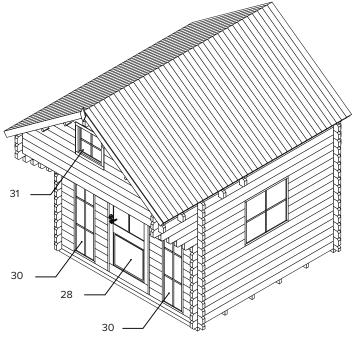


1) Insert the roof rafters parts #S1, #S2 and #S3 as shown.



- 1) Apply roof sheathing boards making sure they are uniformly level with the ridge beam all the way across.
- 2) Fasten the sheathing to roof rafters using a nail gun or screws so no fasteners are visible.
- 3) Attach the windflap trim pieces (not ID numbered) at this stage or you can also wait until after your roof finishing material is installed to do this step.

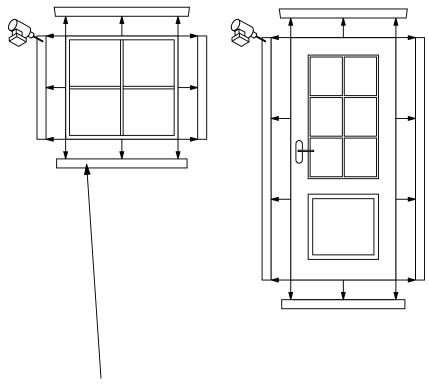
STEP 11



1) Insert remaining windows and doors.

HILICREST LOFT SD | ASSEMBLY INSTRUCTIONS - WINDOWS & DOORS

STEP 12

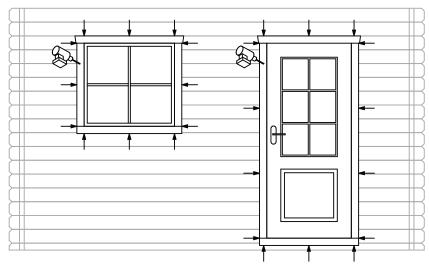


- 1) Remove the trim off one side of each window and door for convenient installation.
- 2) Dry fit each window and door into the appropriate opening.
- 3) You will need to shim the bottom of each window and door with a spare piece of wood to create a gap at the bottom so it fits evenly inside the allowed space.
- 4) Check to make sure the windows and doors are level.

STEP 13

- 1) Screw the window and door trim back into place to hold everything together inside the opening.
- 2) *Should the door require further securing you may choose to fasten a screw at the bottom or top of the door frame into the wall to further secure it to the main structure.

Do not over tighten this screw (if it is needed) as you want to make sure to keep the door as square as possible and avoid warping the frame.



HIIICREST LOFT SD ONDURA ROOF FINISHING MATERIAL

Although we do not include any roof shingling material in our kit packages, we highly recommend that you choose ondura corrugated asphalt roofing sheets for your own DIY assembly.

Ondura products offer a lightweight and attractive solution for roofing projects.

Ondura very economical and relatively quick to install. Ondura is made with a tough organic finer core that is completely infused with asphalt as the weather protection barrier.



ONDURA comes in sheet sizes of 36' x 79" and is available at most local Home Depot locations.

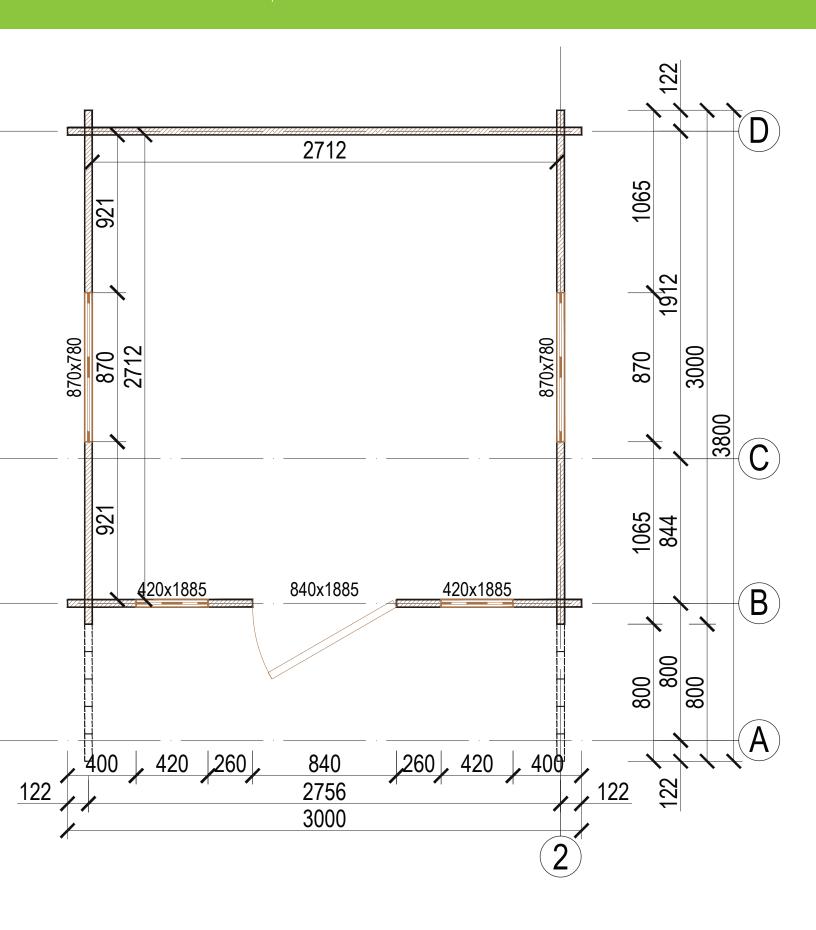
The area of roof to cover on each sloped side of a HillCREST Loft is 149.6" L x 77" H

You will require 10 sheets of ONDURA roof panels in your choice of colour + 2 ridge caps and 1 box of ONDURA specific nails

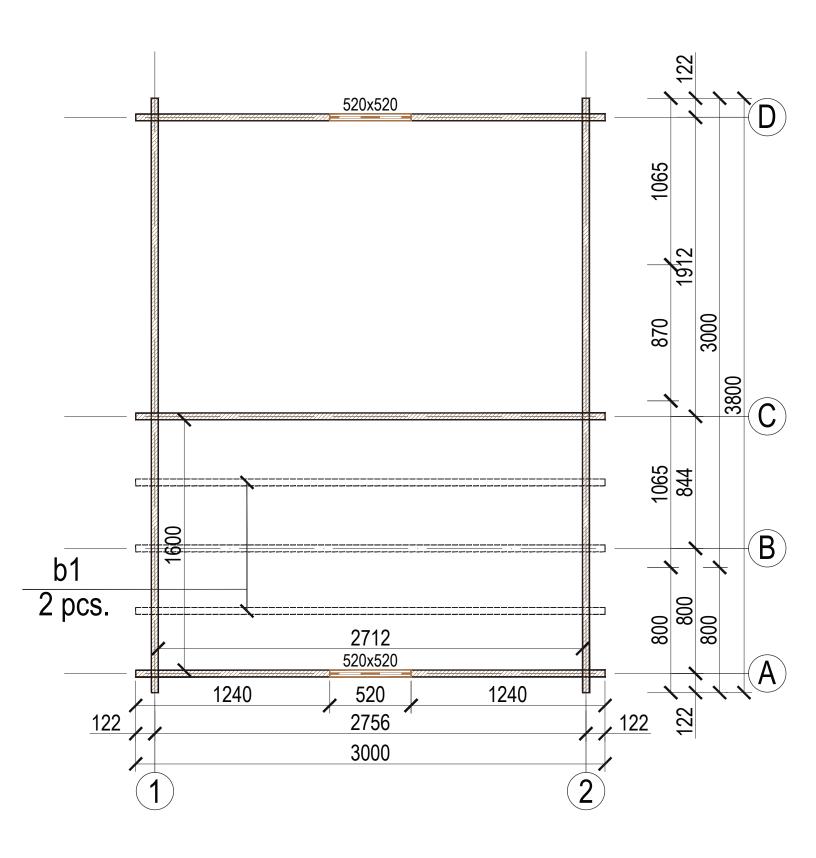
ONDURA SHOULD BE SCREWED DIRECLY INTO THE ROOF BEAMS OF YOUR STRUCTURE.



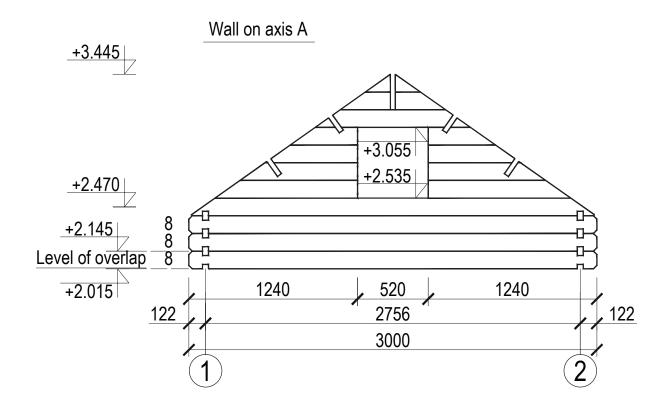
HIIICREST LOFT SD | PLAN OF THE 1st FLOOR IN AXIS - A/D

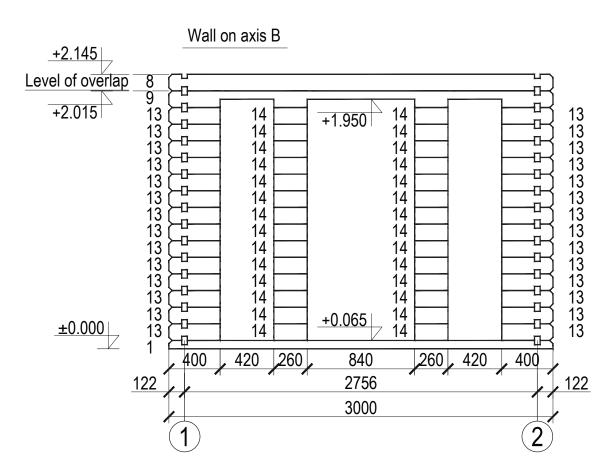


HIIICREST LOFT SD PLAN OF THE 1st FLOOR IN AXIS - A/D

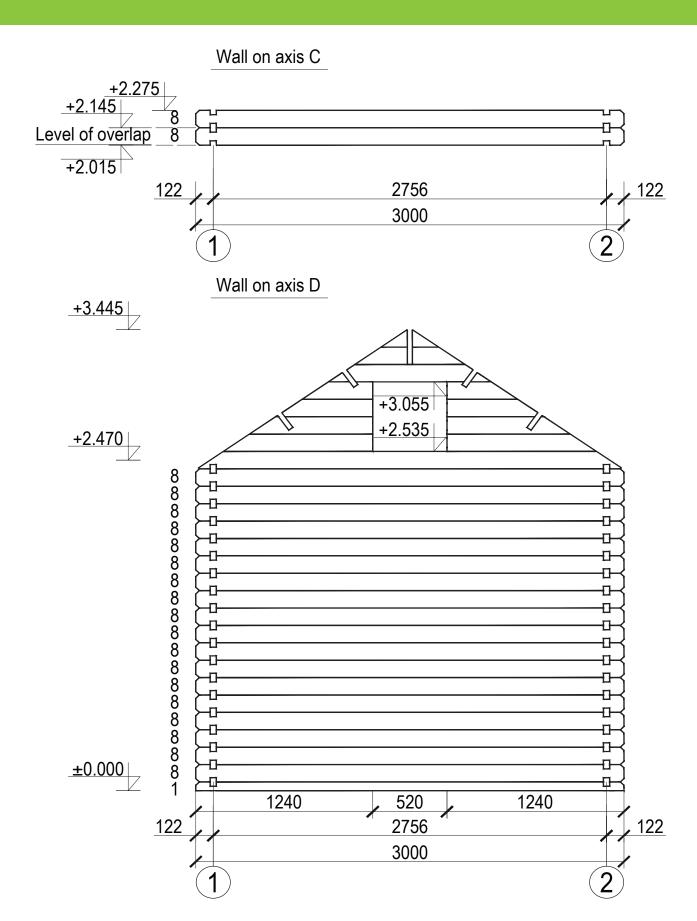


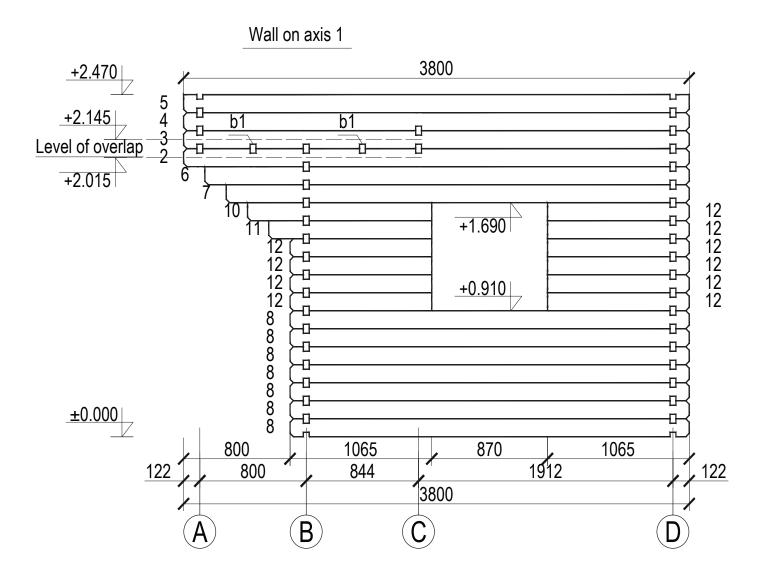
HIIICREST LOFT SD WALL ON AXIS A & B



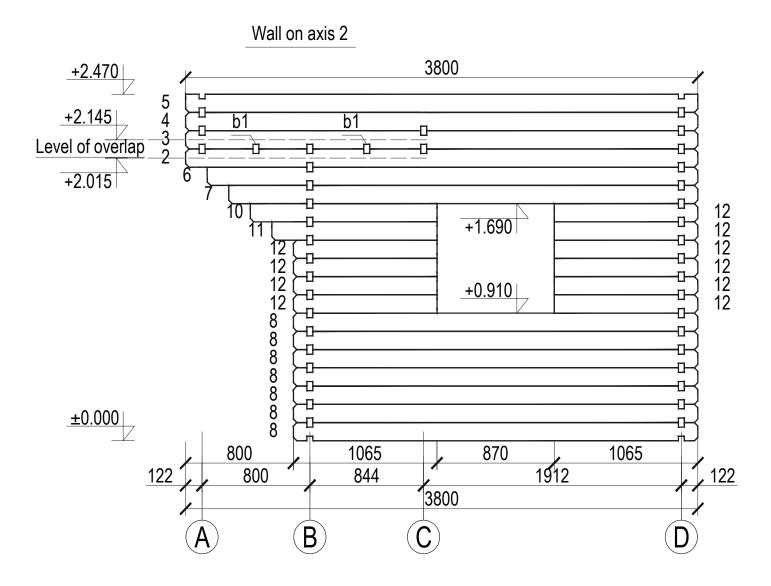


HIIICREST LOFT SD | WALL ON AXIS C & D

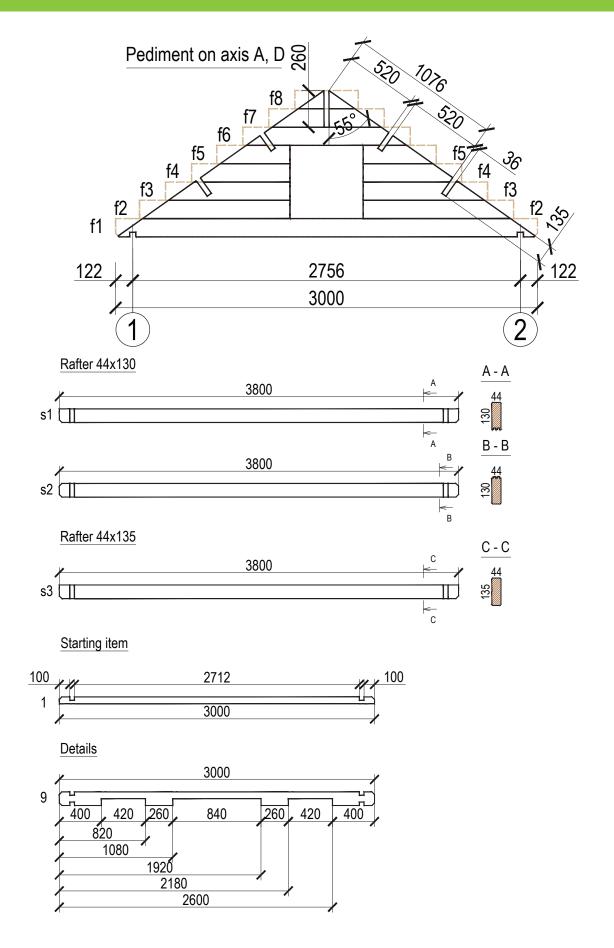




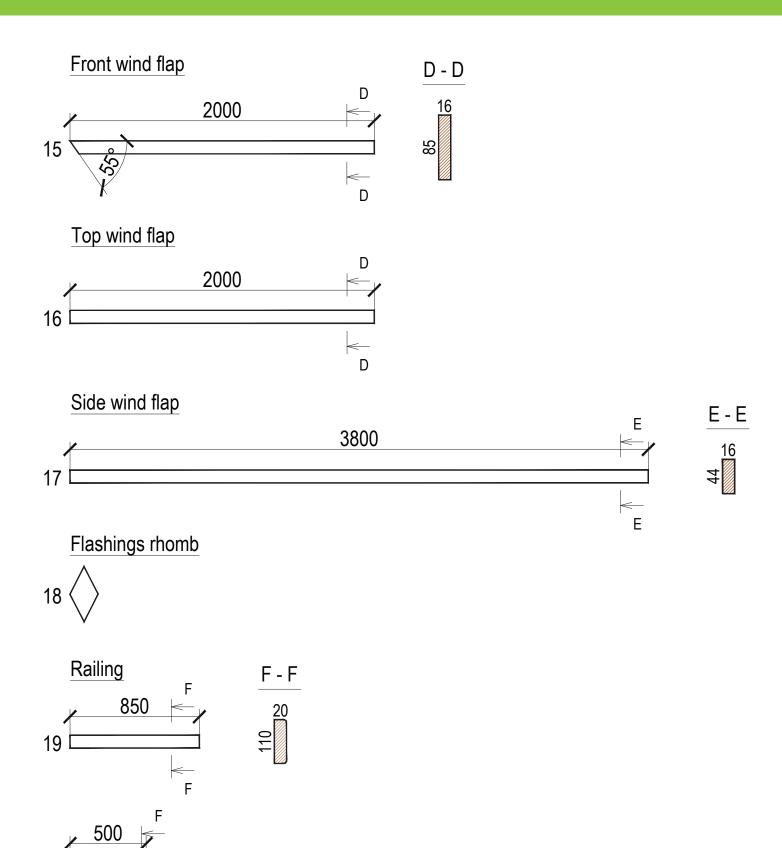
HIIICREST LOFT SD | WALL ON AXIS 2



HIIICREST LOFT SD | PEDIMENT ON AXIS A & D, RAFTER & DETAILS



HIIICREST LOFT SD | WIND FLAPS, RHOMB & RAILING



20

HillCREST LOFT SD

Nº	Details	Lenght	Pcs.								
Starting item											
1	2878 3000 122	3000	2								
Wall	Vali										
2	3678 3278 2878 2456 2034 122	3800	2								
3	3678 3278 2878 2456 2034 122	3800	2								
4	3678 2034 122	3800	2								
5	3800 T 122	3800	2								
6	<u>3518</u> <u>762</u>	3640	2								
7	3480 602	3480	2								
8	2878 122	3000	38								
9	2878	3000	1								
10	943	1385	2								
11	943	1225	2								
12	943	1065	20								
13	<u>278</u>	400	28								
14	260	260	28								
Pedi	ment										
f1	2878 122	3000	2								
f2	1070	1070	4								
f3	885	885	4								
f4	700	700	4								
f5	520	520	4								
f6	1190	1190	2								
f7	820	820	2								
f8	450	450	2								
Rafter 44x130											
s1	3800 II 122	3800	1								
s2	3800 ID 3678 122	3800	1								

HillCREST LOFT SD

Nº	Details						Pcs.		
Rafter 44x135									
s3	3800 I 122						4		
Timber ceiling 44x130									
b1	3000	20				3000	2		
	Name of part Lenght Amount					0000			
Nº 15	Front wind flap 16x85	2000	4	Amo	Duni				
16	Top wind flap 16x85	2000	4						
17	Side wind flap 16x44	3800	2						
	Flashings rhomb	pcs.	2						
	Railing 20x110	850	2						
	Railing 20x110	500	4						
	Lath 30x44	2700	2						
22	Plinth	m.	36						
23	Logs 50x70	2800	6						
24	Floor covering	2700	28x85	28x90	28x113	28x	130		
			32	31	24	2	1		
25	Floor covering	1600	28x85	28x90	28x113	28x	130		
			32	31	24	2	1		
26	Board on the roof	1950	16x85	16x90	16x113	16x	130		
20			45	43	34	3	_		
27	Board on the roof	1950	16x85	16x90	16x113	16x			
		1000	45	43	34	3	0		
28	Door 840x1885	pcs.	1/2 glass	wooden	glass				
00)A" 070 700		1						
	Window 870x780	pcs.	2						
30	Window 420x1885	pcs.	2						
31	Window 520x520	pcs.	2						