
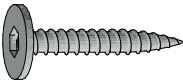
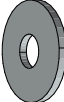
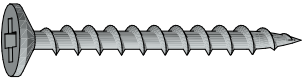
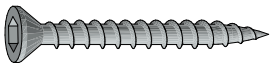



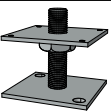


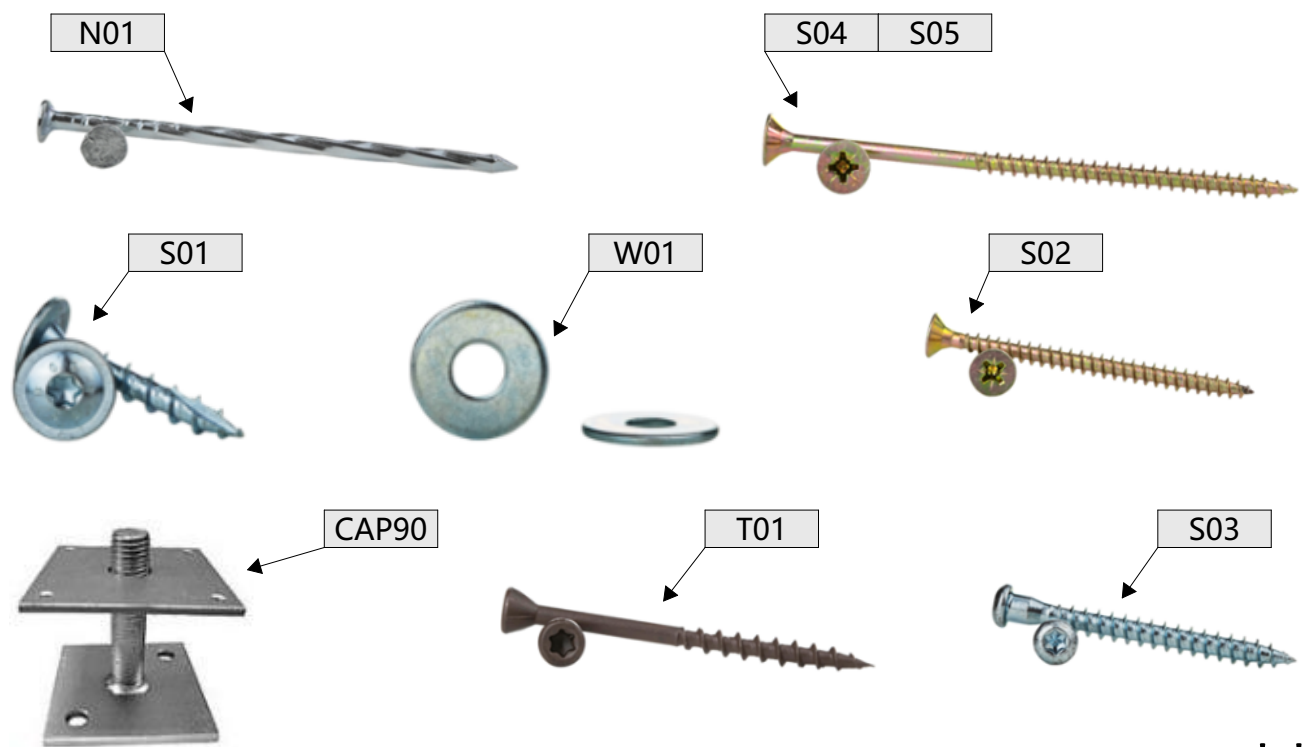
# General assembly instructions

## Content

Page	Name
*	Main page
**	Content
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4	Floor bearers
5	1st row of wall logs
6	Beams for windows and doors grooves
7	Installation of windows and doors
8	Half notched wall logs
9	Purlins
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13	A frame roof structure
14	Roof boards
15	Roof boards
16	Wind boards
17	Wind boards
18	Storm brace beams
19	Floor boards
20	Floor boards and trims
21	Terrace boards
22	Notes

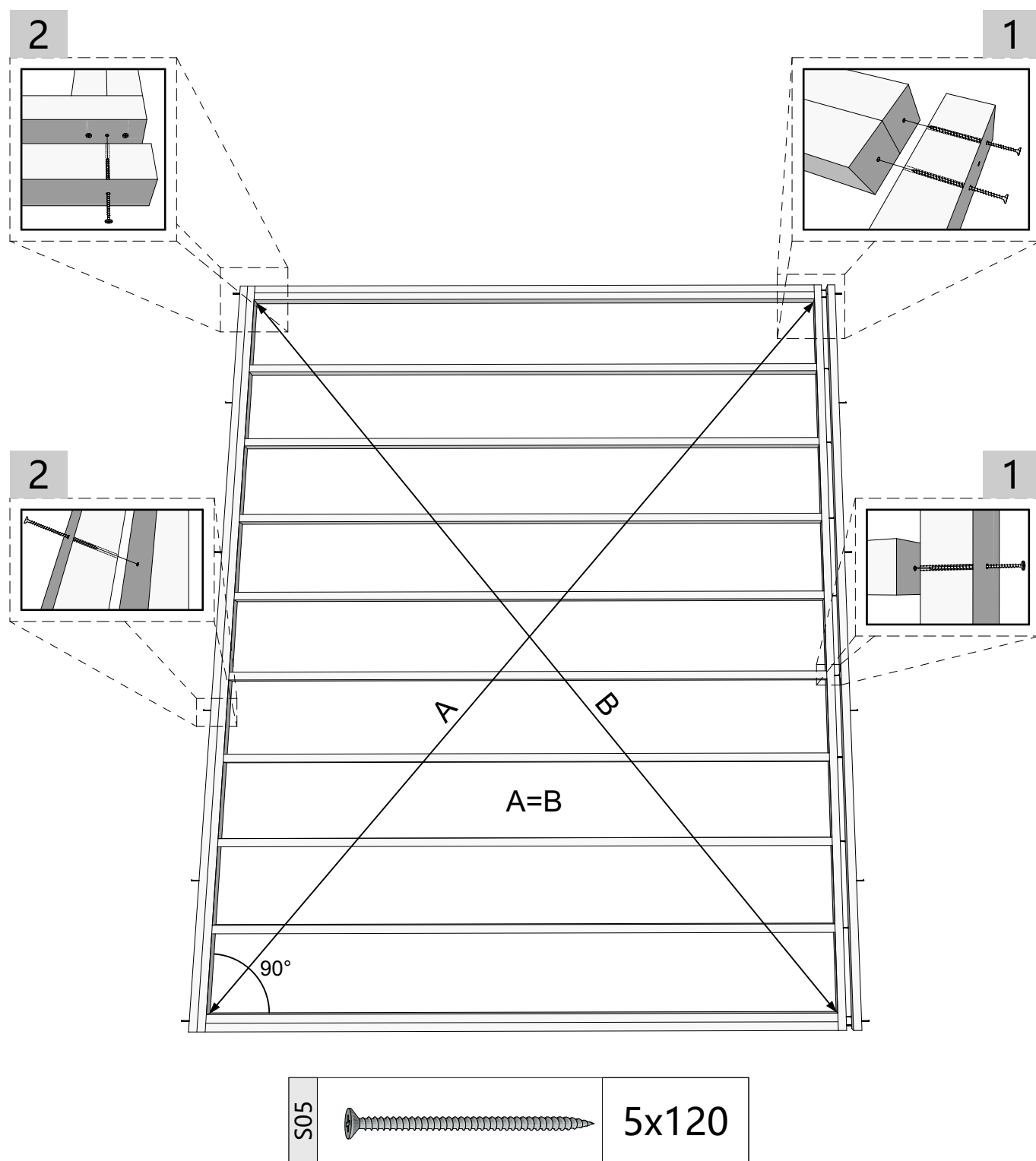
# Specification of fasteners

ID	Preview	Measures	Abilities of usage	Page
N01		2,5x40	Roof and floor boards, trims	14, 15, 19, 20
S01		8x50	Storm brace beams, columns	10, 11, 18
W01		M10	Storm brace beams	18
S02		3x40	Wind boards, roof boards	14, 15, 16, 17
T01		4,2x5,5	Terrace boards	21
S03		5x50	Columns	10, 11
S04		5x100	Wall logs	5, 8
S05		5x120	Floor bearers, purlins, roof structures, supporting beams, columns	9, 12, 13
CAP90		90x90	Columns	10, 11



\*\*\*

# Floor bearers



1. Use 1x screw 5x120 in every connection point;
2. If there are double floor bearers, then use 5x120 screws every 1m between them.

⚠ Note: installation parts fixing floor bearers to the base aren't included.



# 1st row of wall logs

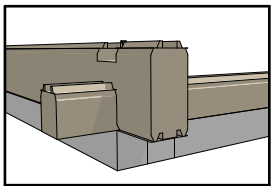
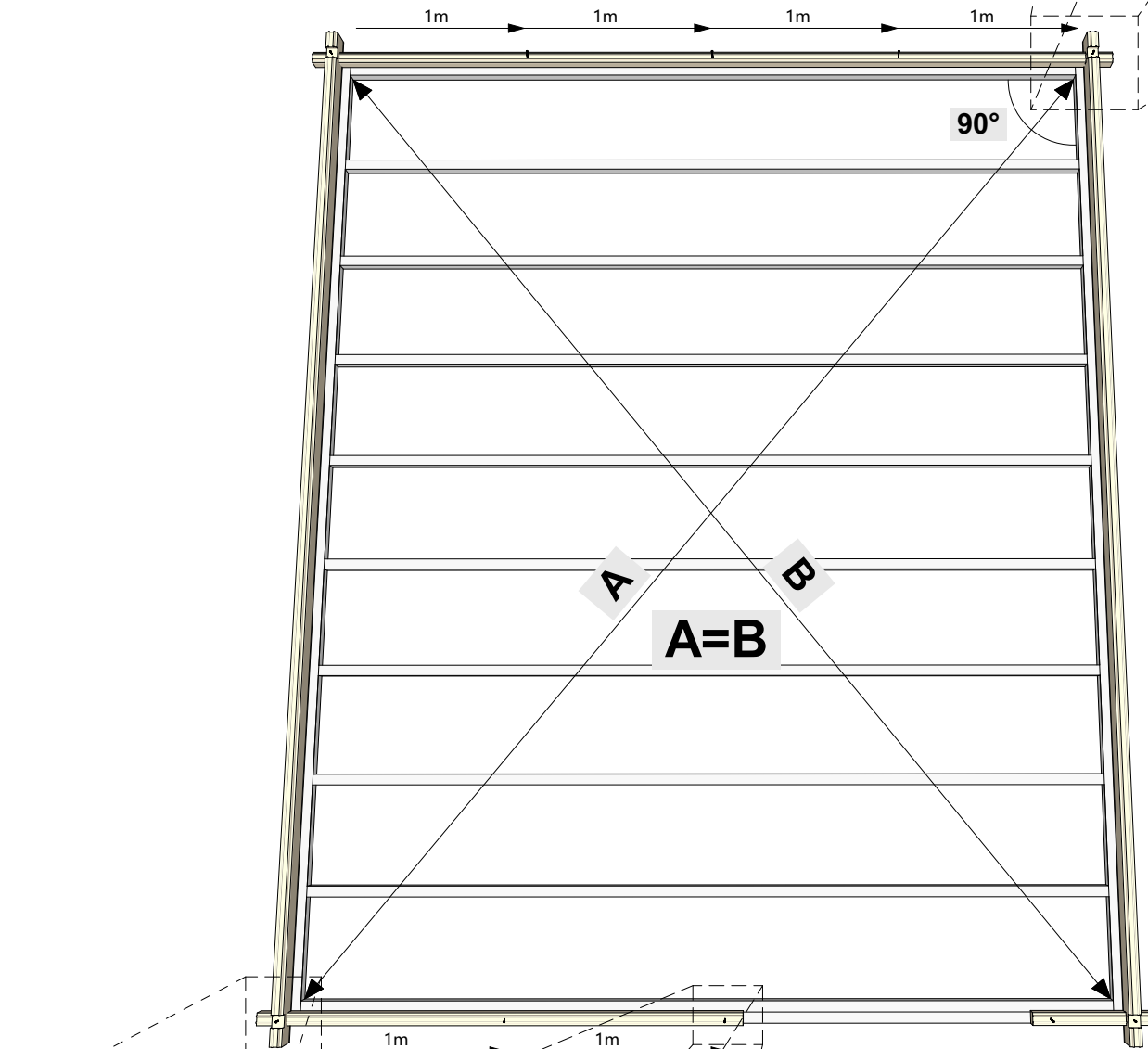
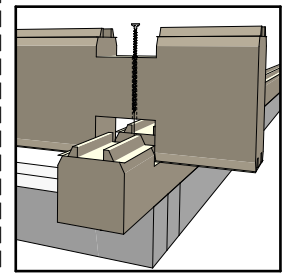
1. Install 1st row of logs, which includes half and full logs (see image 1);
2. Use 5x100 screws in the corners, where the connection of logs (see image 2);
3. Use 5x100 screws every 1m distance to attach half logs to the floor bearers (see image 3). There is no need attach full logs if half logs are attached correctly.

S04

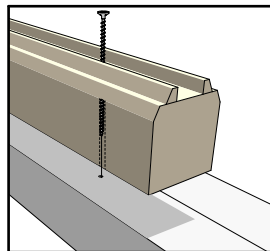


5x100

2



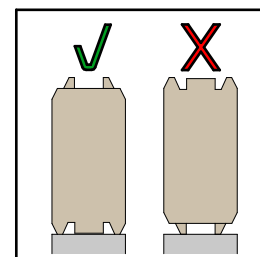
1



3

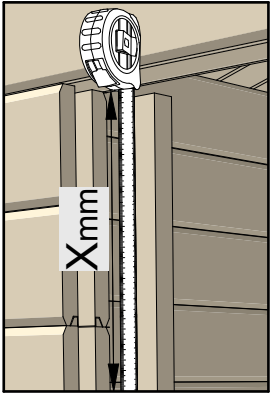


Note: make attention to the position of the logs.  
Tongue always look upwards.



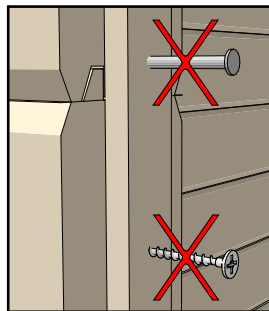
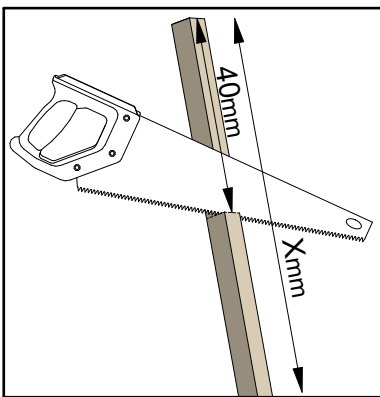
# Beams for windows and doors grooves

1



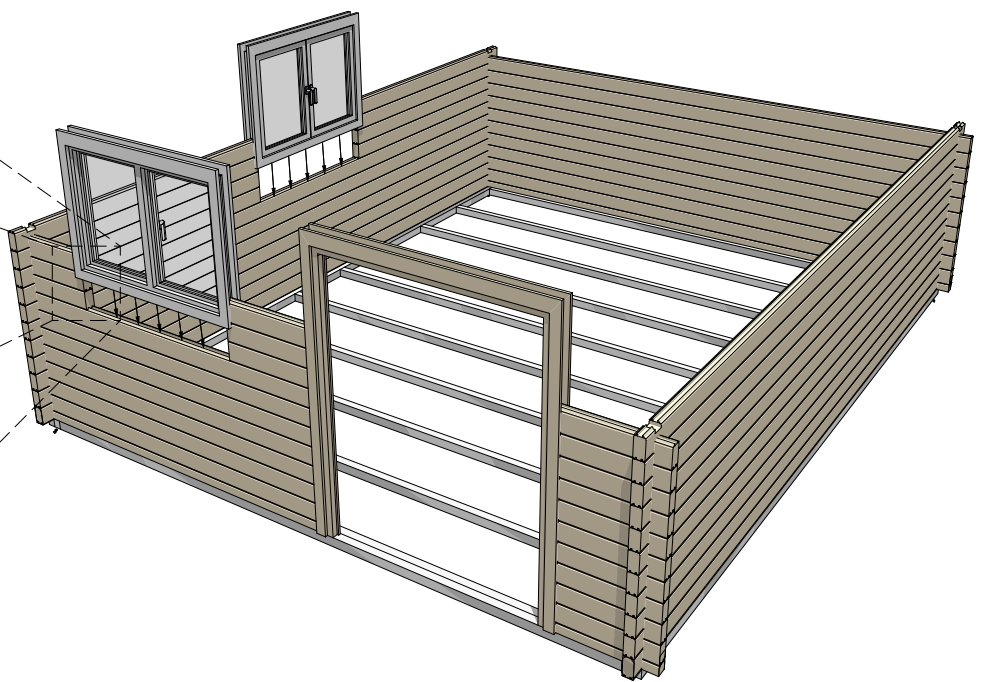
1. Measure the length of the groove;
2. Cut the beam minimum 40mm ( $X(\text{total length}) - \text{min}40\text{mm}$ ). It's important to cut the beam, because wall logs should easily sit down. If uncut beam is placed in the groove, then it could cause an issue in the future.
3. Place the beam in groove without fixing it.

2

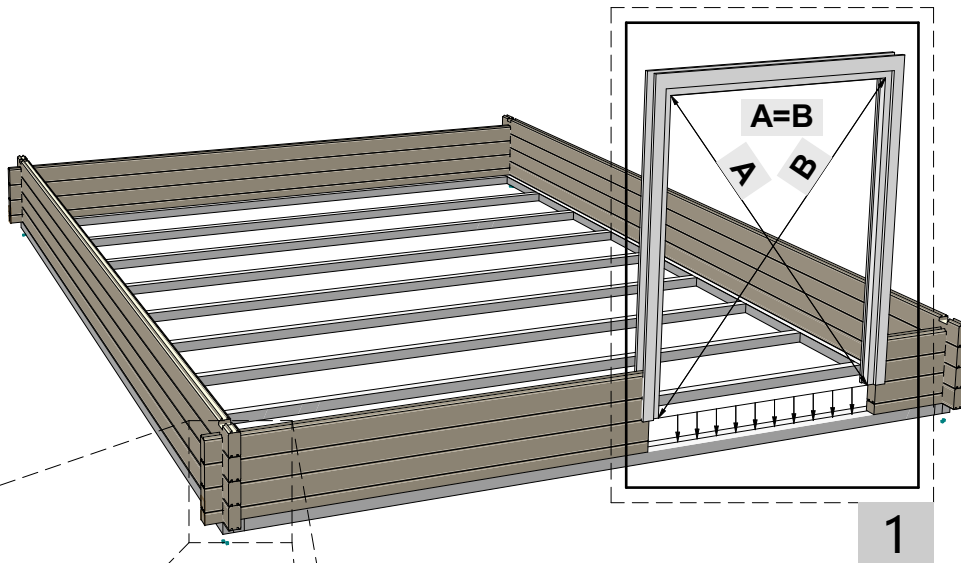


⚠ Attention: don't use any nails or screws.

3

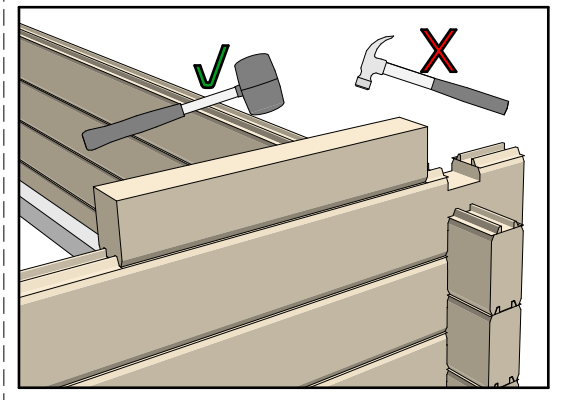


# Installation of windows and doors



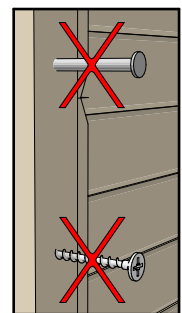
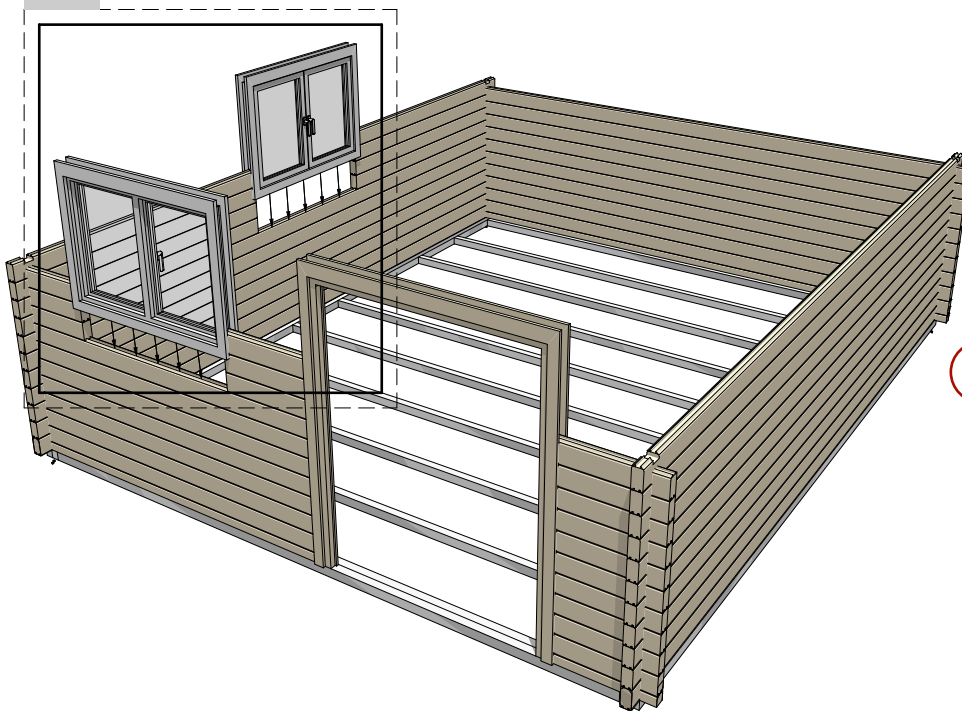
Attention: do not use a metal hammer, because it can damage the wood. Rather use a rubber hammer and spare wooden piece while installing wall logs.

1. Place the door carefully (after the required quantity of wall logs is raised and the beams already are placed in the grooves of the door hole). Double check diagonal of door frame. If everything is ok, then door leafs can be installed;
2. Place windows the same as doors, but there is no need to mount off the leafs of the window.



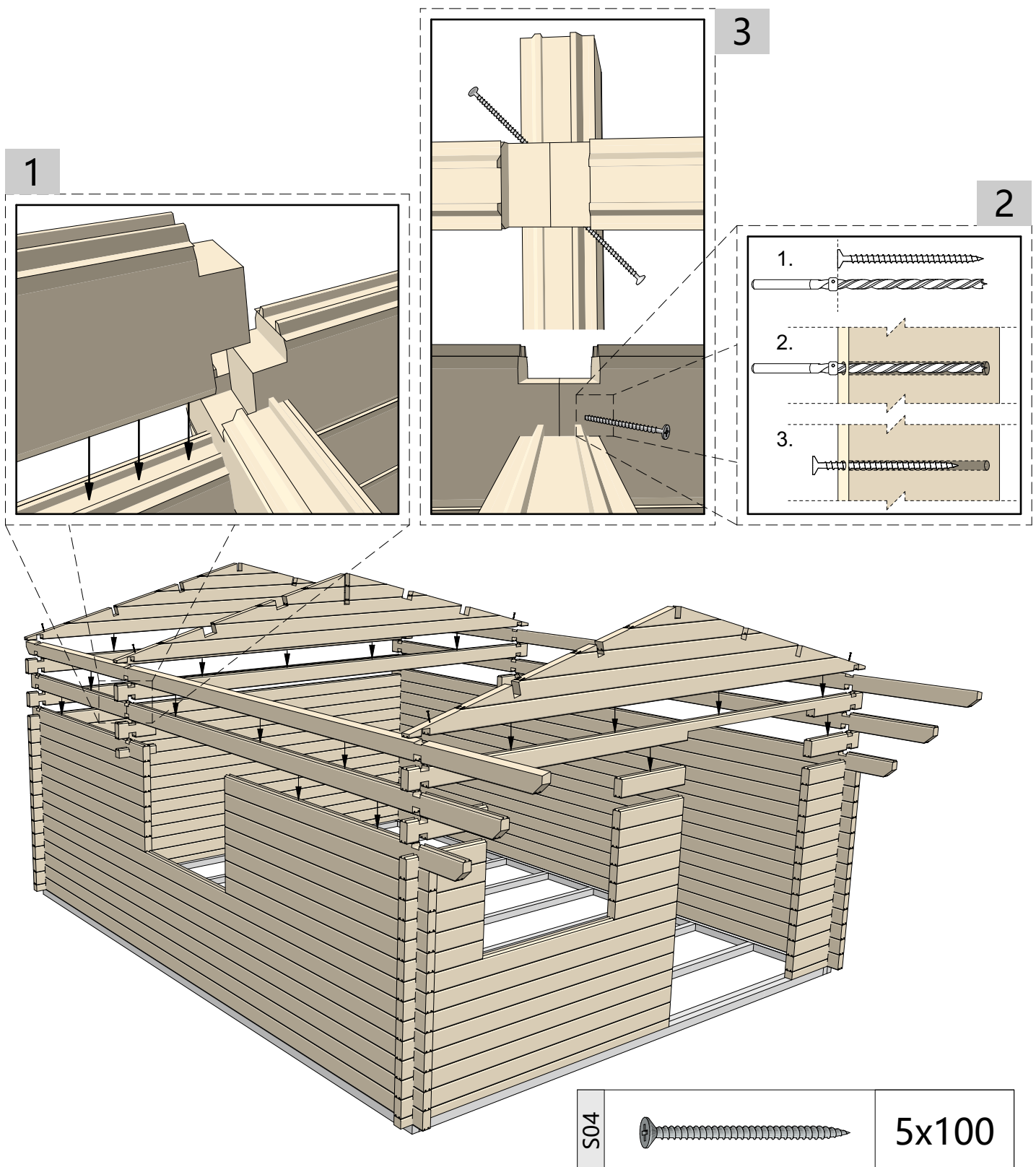
Option 2: there is a 2nd option for installing windows and doors. After the cabin is fully built, just mount off casing beams of windows and doors, place them in the correct opening and then mount on casing beams in previous places.

2

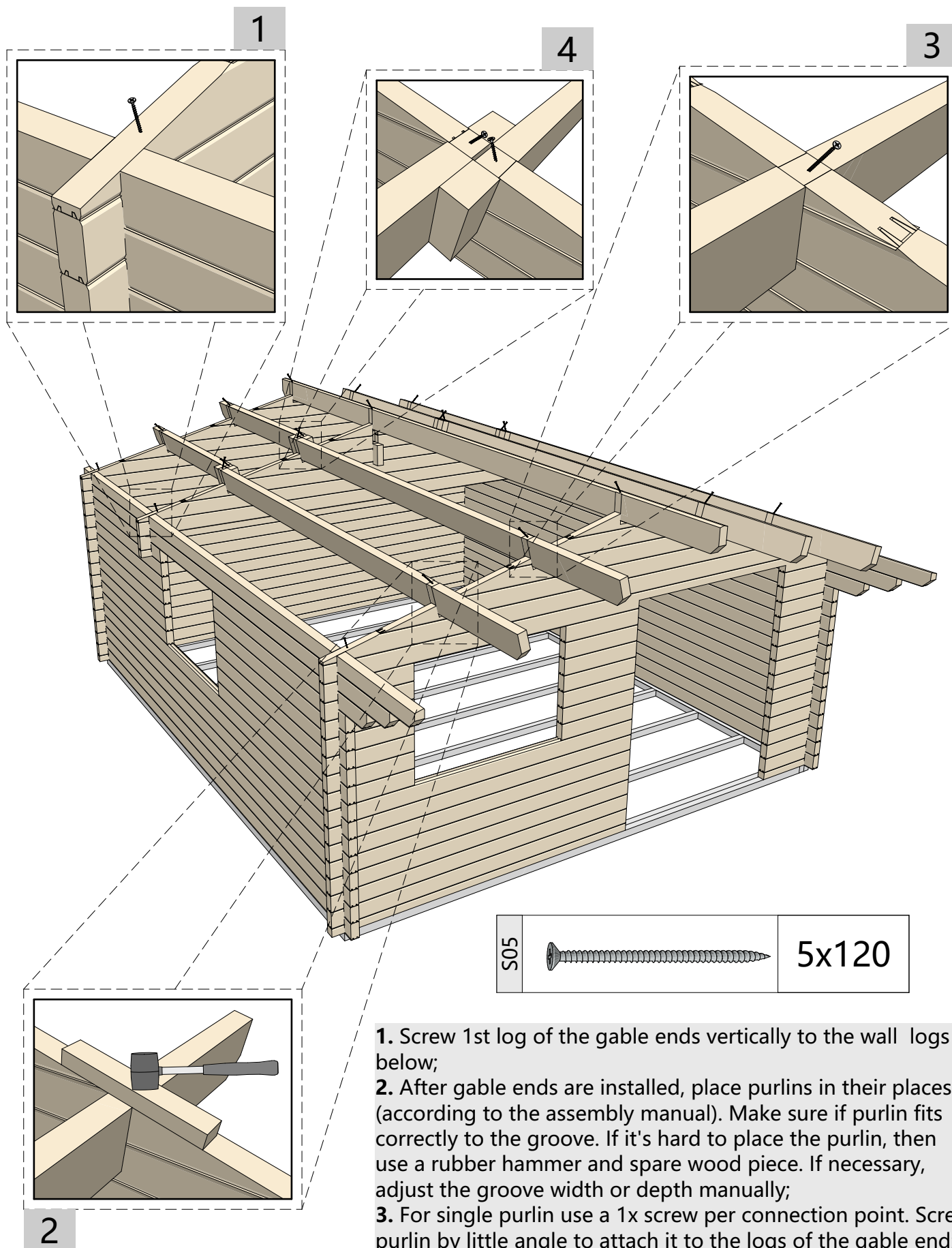


Attention: don't use any nails or screws for fixing windows/doors frame to the wall logs. Fixing is possible to the beam which is in the groove already, but it's necessary.

# Half notched wall logs

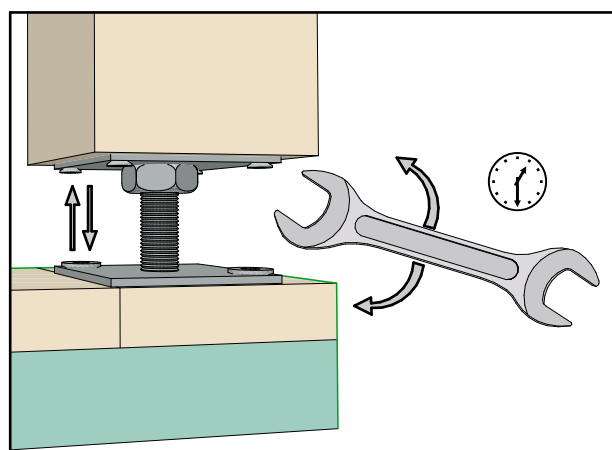
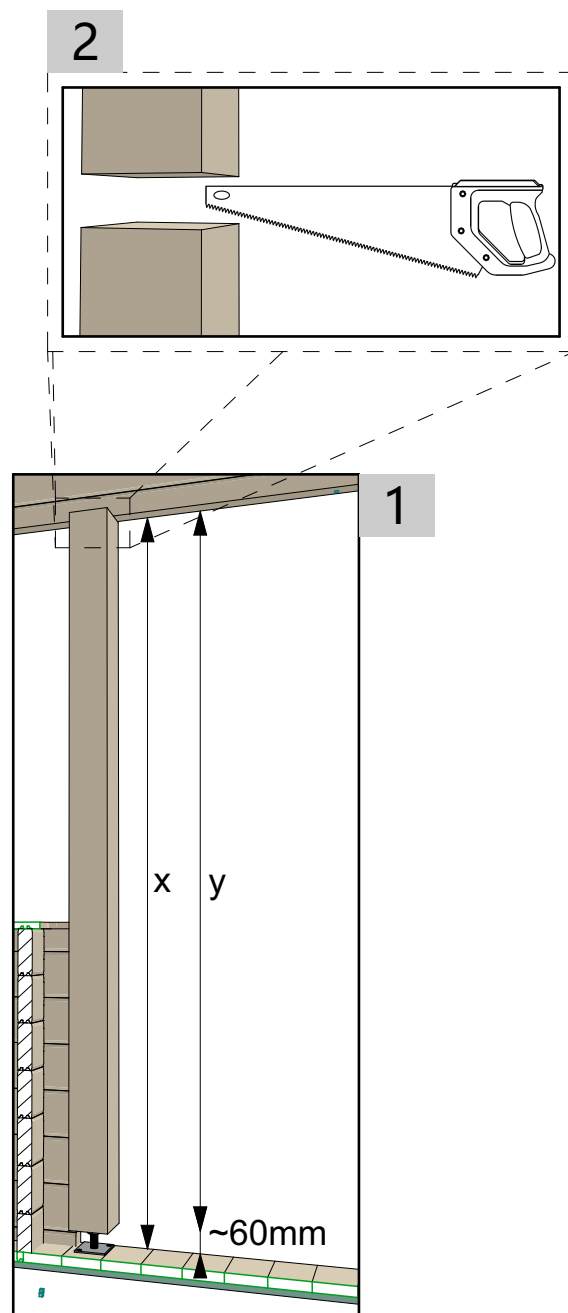
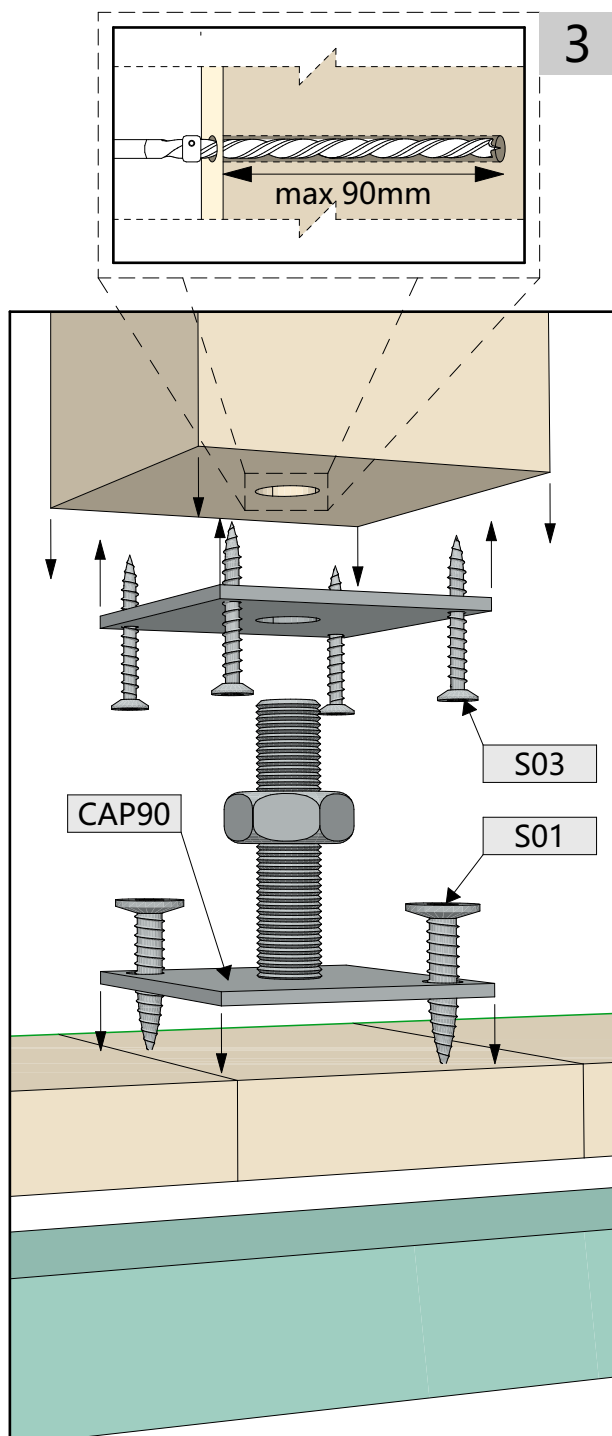


1. Place the wall logs in their correct places;
2. It's recommended firstly drill the place where screw should be installed;
3. Do not screw them vertically. Install screws to connect wall logs (there half notches are made) diagonally from the both sides.



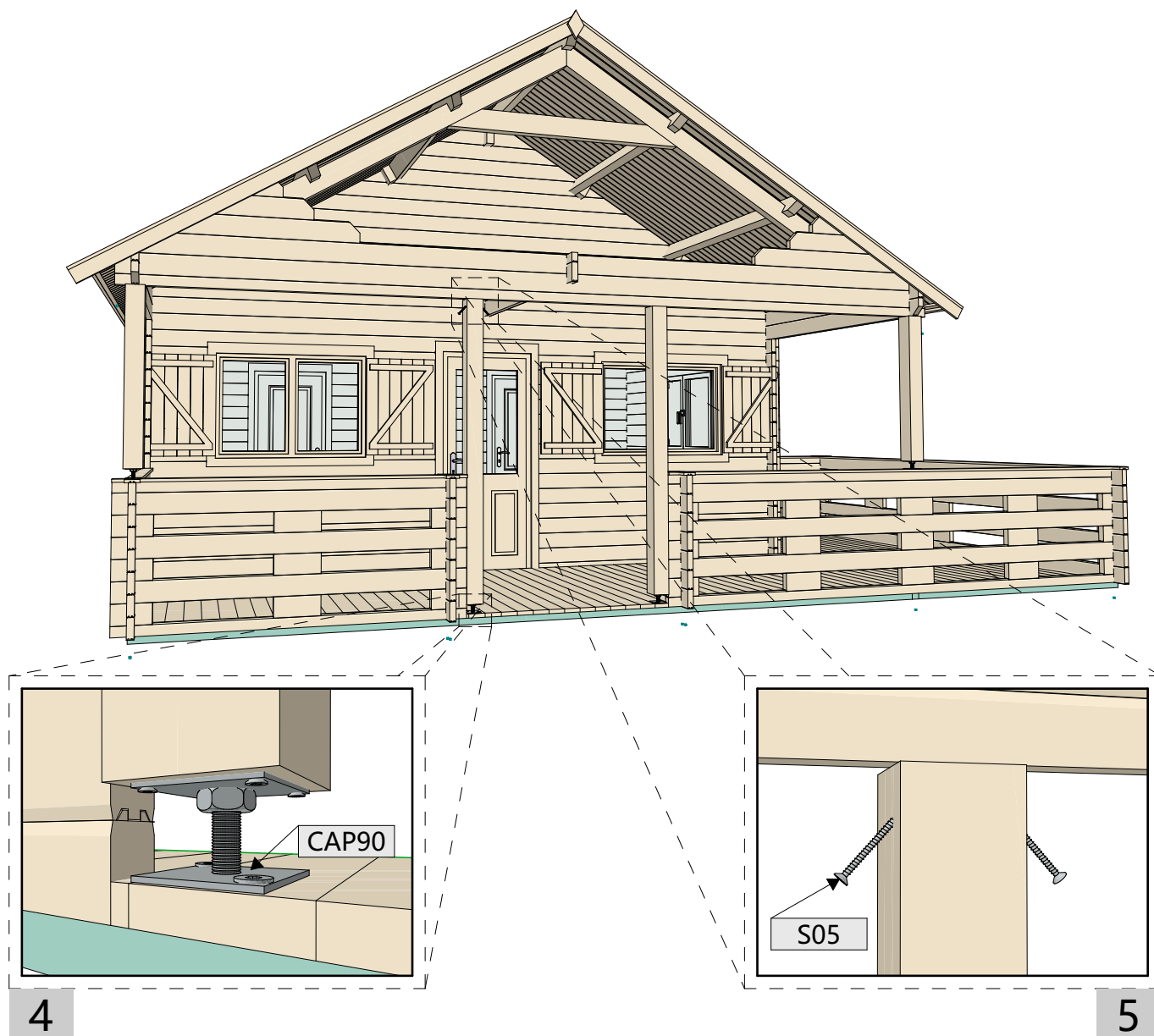
- 1.** Screw 1st log of the gable ends vertically to the wall logs below;
- 2.** After gable ends are installed, place purlins in their places (according to the assembly manual). Make sure if purlin fits correctly to the groove. If it's hard to place the purlin, then use a rubber hammer and spare wood piece. If necessary, adjust the groove width or depth manually;
- 3.** For single purlin use a 1x screw per connection point. Screw purlin by little angle to attach it to the logs of the gable end;
- 4.** For double purlins use a 1x screw for each. Screw purlins by little angle to attach it to the logs of the gable end.

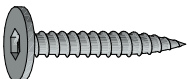
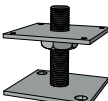






⚠ Attention: column installation method is shown for fixing it to the wooden base only. If fixing is required for concrete base, then don't use 8x50 screws. Fastenings aren't included for concrete base.

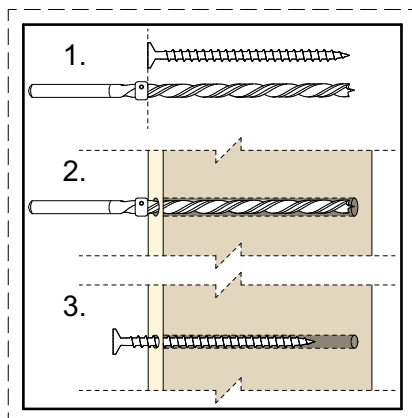
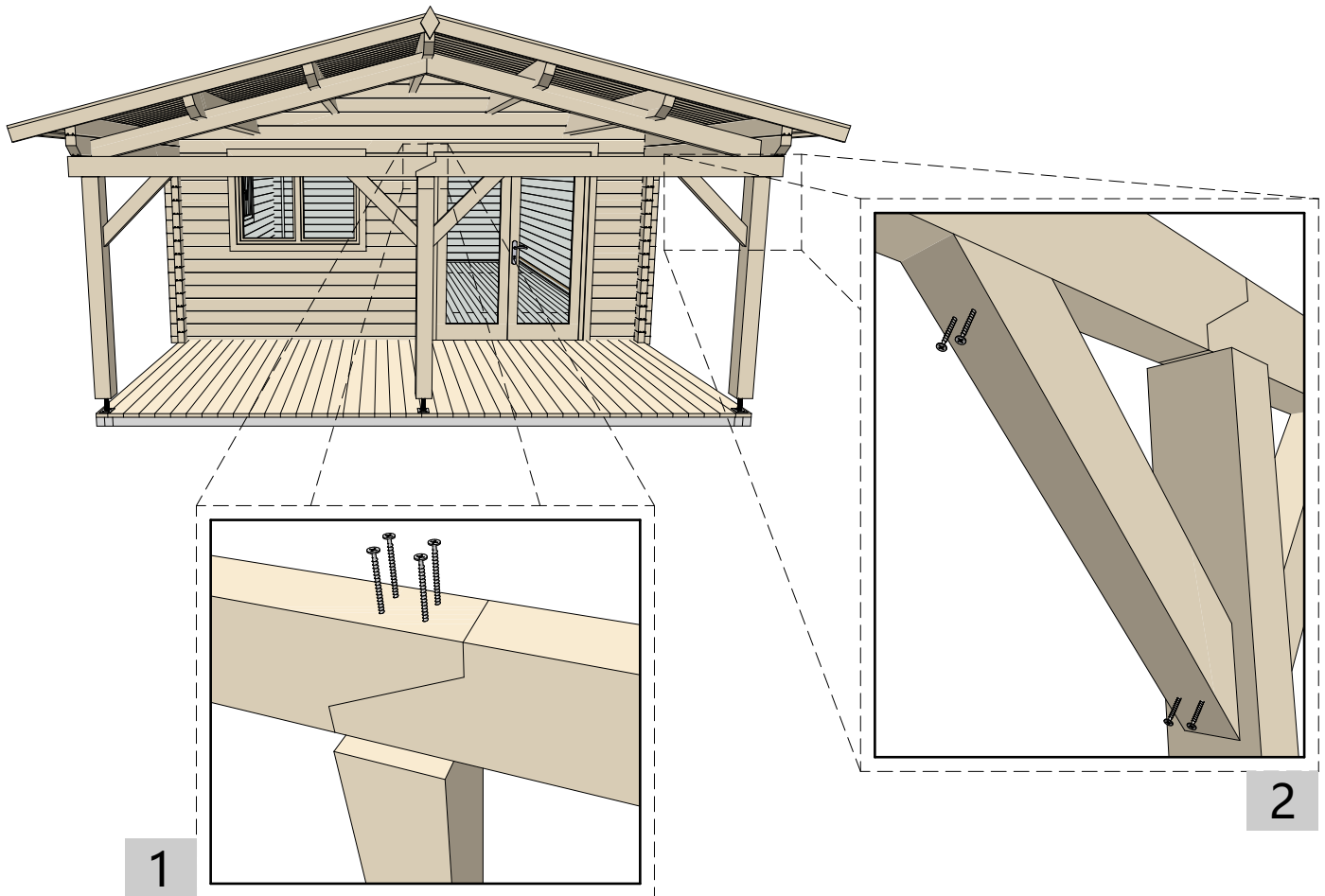
👉 Take care about adjusting the height of the columns time to time. Incorrect adjustment can affect the structure of construction.




S01		8x50	CAP90		90x90
S03		5x50	S05		5x120

1. Measure total distance from the ground to the top point [x]. Usually columns are supplied longer to cut them in required length during assembly;
2. To know the required length [y] use this formula:  $x - 60 = y$  (x-total height from the ground to the top point, 60-is metal column adjusting part height (usually it's 10cm, but part of tie rod should be inserted in the column drilling, y-required column height). After calculation cut the column by the required length;
3. Drill bottom part using 22mm-25mm drilling. The max depth of drilling is 90mm;
4. Screw the top plate of column adjustment parts using 4x screws 4x50. The bottom plate should be fixed to the wooden base using 2x screws of 8x50;
5. Fix the top part of the column using 2x screws 5x120 per connection point. Install screws trough column directly to the holding structure.

# Supporting beams

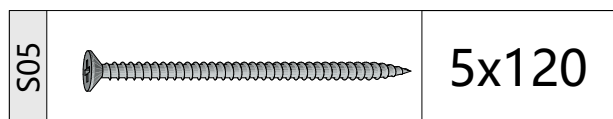
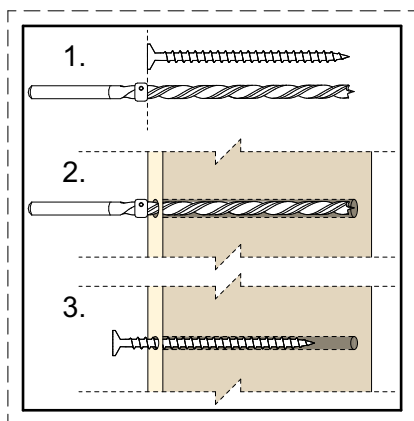
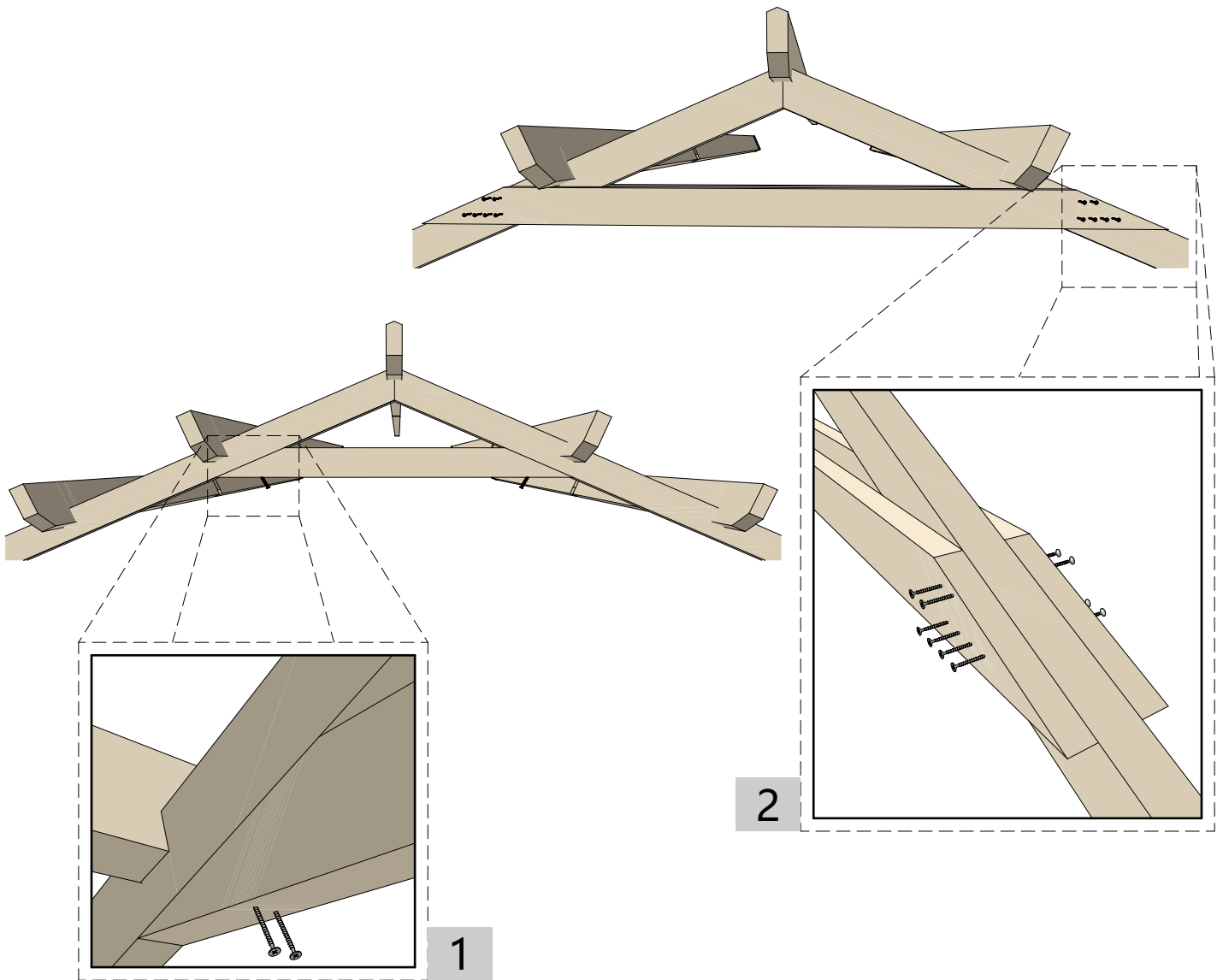


It's recommended drill the places where the screws should be installed.

S05		5x120
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1. Some supporting beams, purlins or holding structures sometimes could be done with scarf connection. Use 4x screws 5x120 per 1 connection point;
2. Supporting beams, usually are placed with the columns. Use 4x screws per 1 supporting beam.

# A frame roof structure



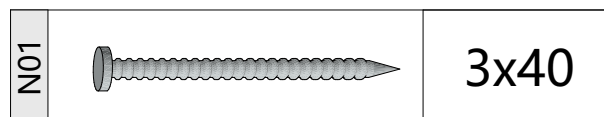
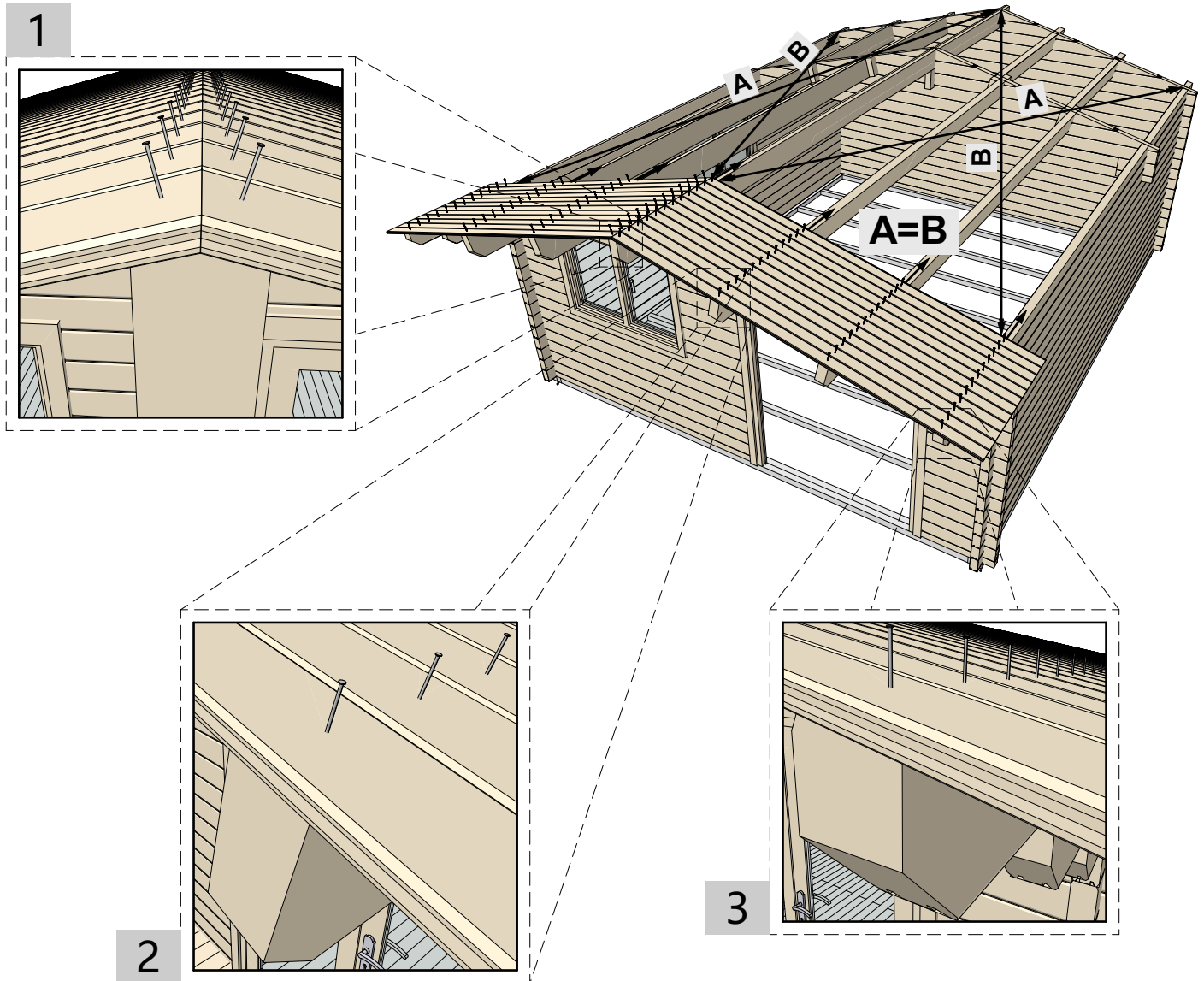
1. One of possible options of a frame structures is the supporting beam goes paralelly to the rafters. Use 2x screws 5x120 per connection point;
2. Another option when supporting beams goes in both sides od the rafter. Use 6x screws 5x120 per connection point.



It's recommended drill the places where the screws should be installed.

# Roof boards

⚠ Attention: while installing roof boards regularly check diagonals ( $A=B$ ).

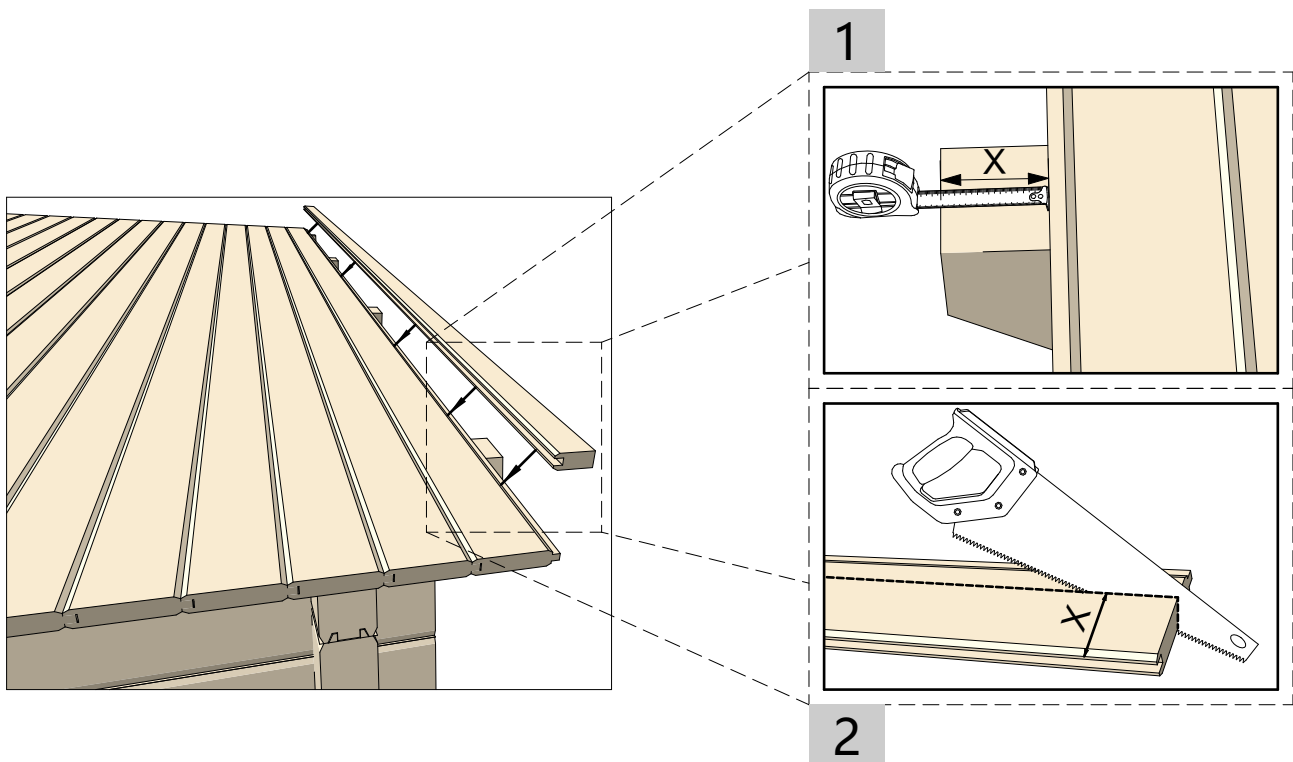


1. Make sure the end of the roof board doesn't go further than the centre of the purlin (keep ridge line);
2. Middle part of the roof, connection point can be wall logs or purlins;
3. Side part of the roof, usually it's side wall.

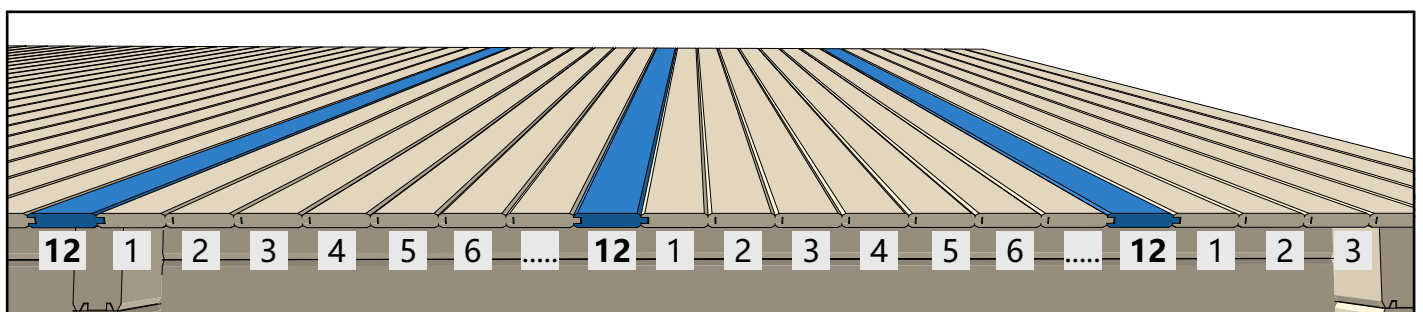
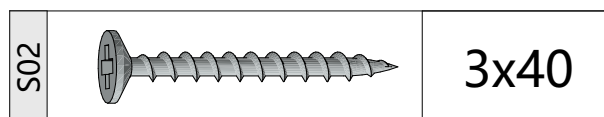


# Roof boards

1. At the end of the roof, please measure the width of the last roof board. It's recommended measures in the 2 places: ridge and the side wall;
2. After measures are made, saw the last roof board in length and nail it as previous roof boards.

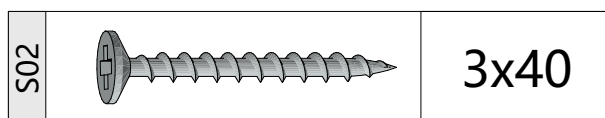
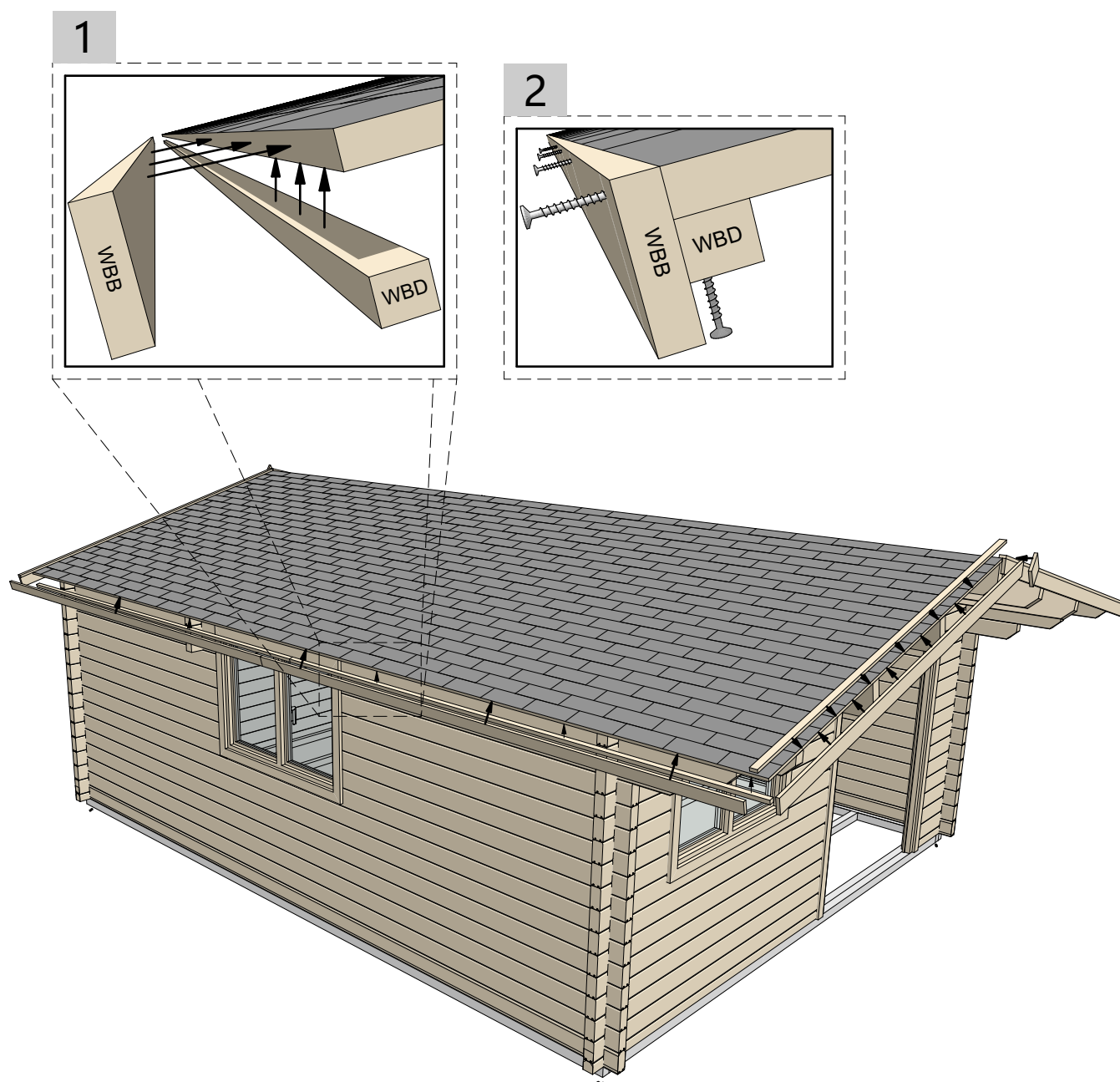


Recommendation: screw every 12th roof board using 3x40 screws.



# Wind boards

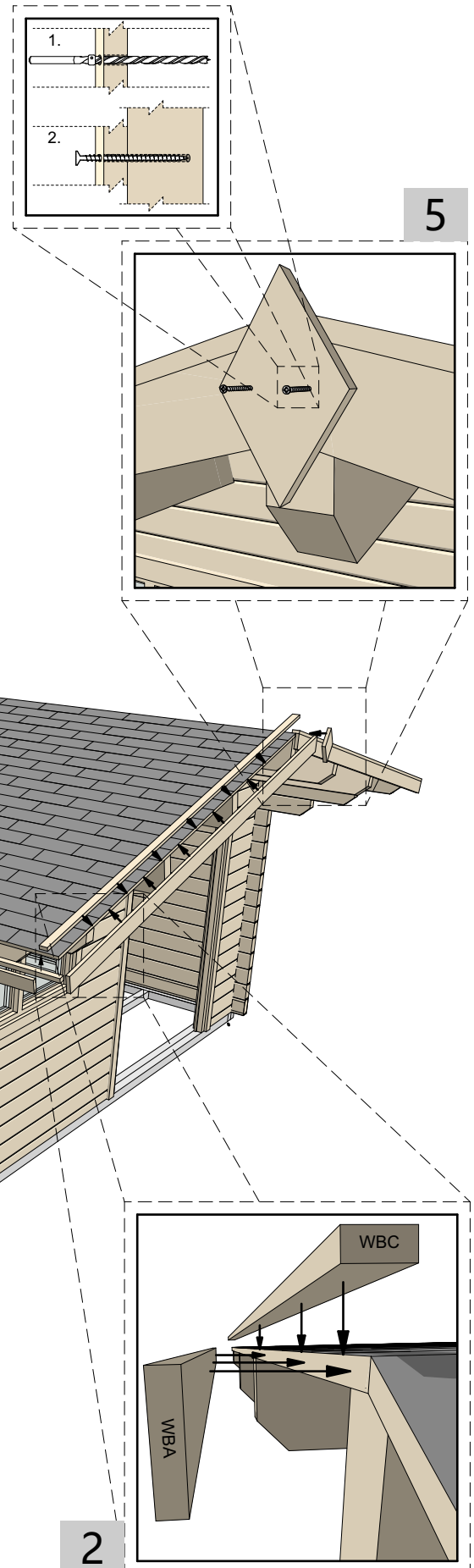
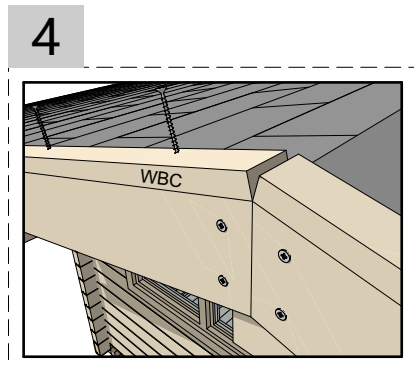
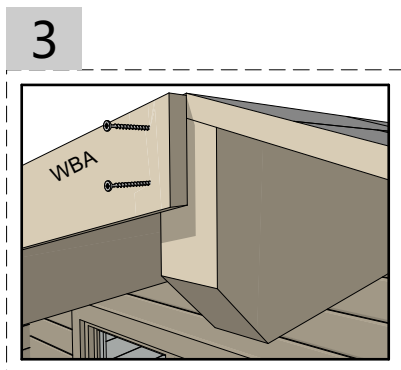
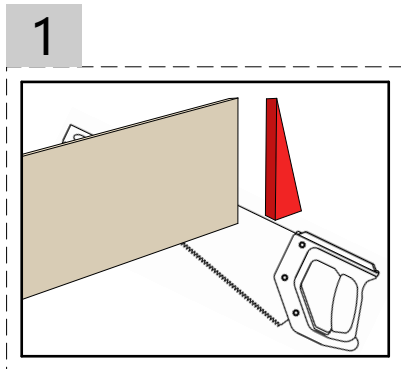
⚠ Note: wind boards are installing only when the roof cover was installed already.



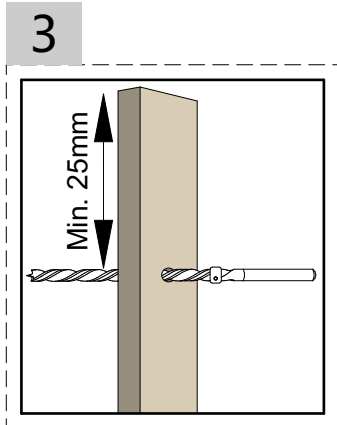
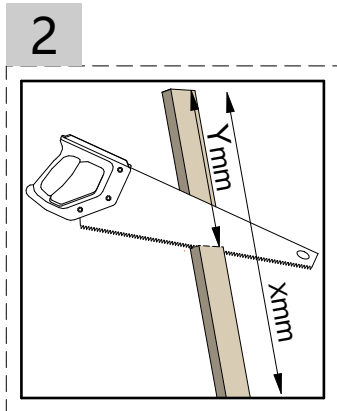
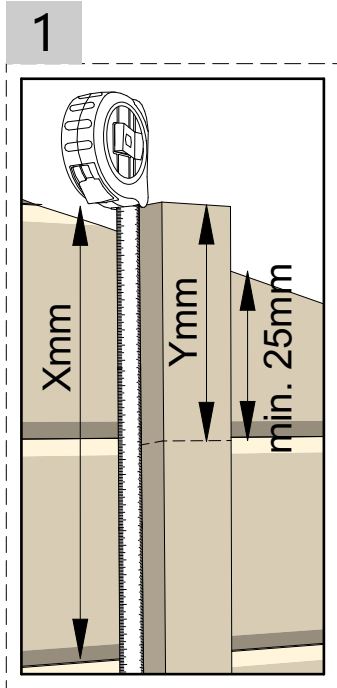
1. Firstly place WBD (at the below of the roof boards), then place WBB at the side part;
2. Screw wind boards WBB and WBD using 1x screw 3x40 every 1 meter distance.

# Wind boards

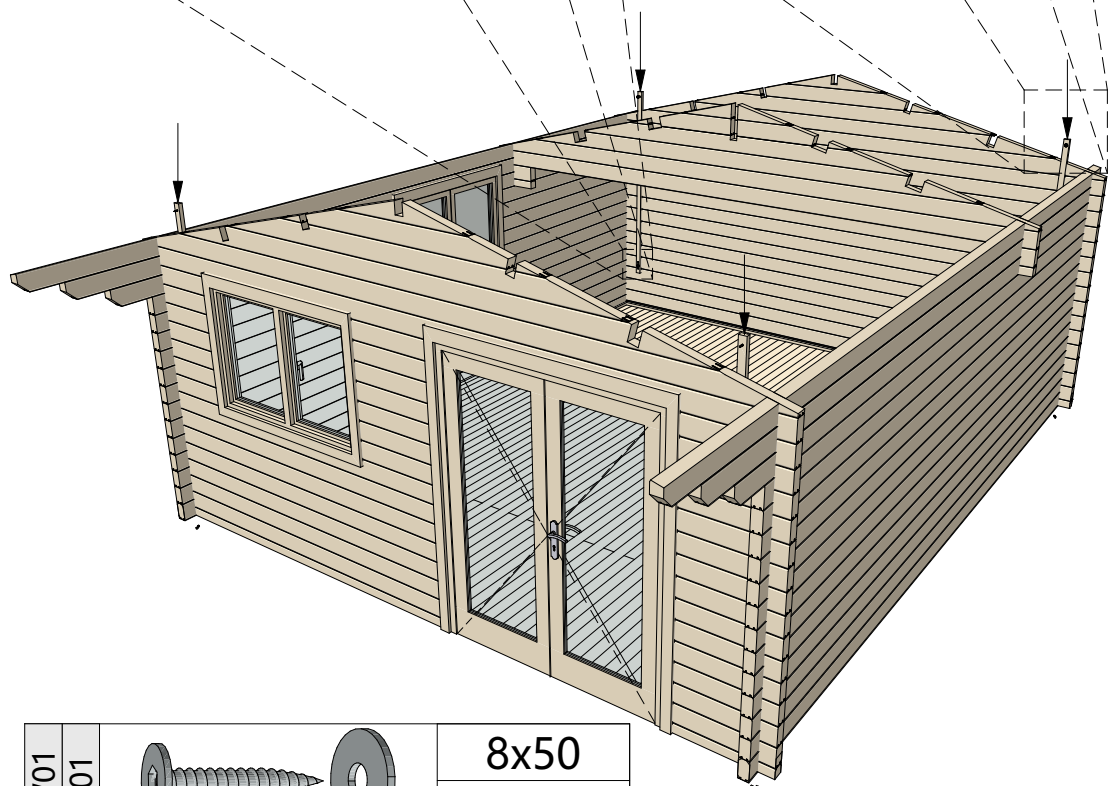
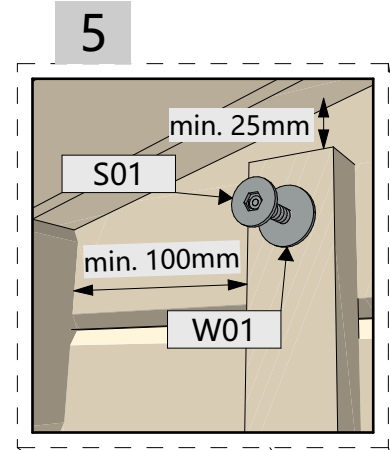
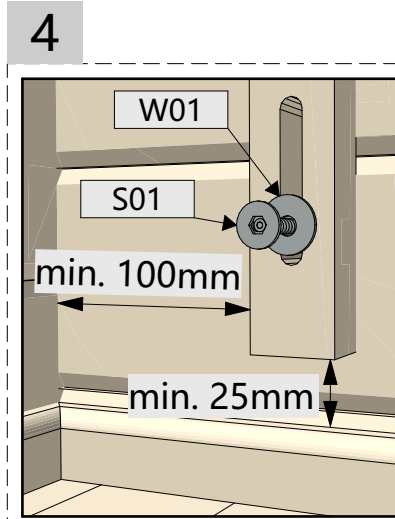
1. Cut the end of the WBA where both WBA wind boards are connected at the ridge;
2. Place WBA (at the side part of roof), then place WBC at the top;
3. Screw wind boards WBA using 1x screw 3x40 in every connection with purlin or wall logs;
4. Screw wind boards WBC using 1x screw 3x40 every 1 meter distance (installing WBC try to screw it directly to WBA avoiding damage the roof cover);
5. Before installing the rhombus, please drill 2 points where the screws should be placed.

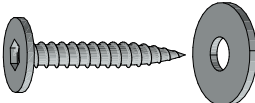


# Storm brace beams



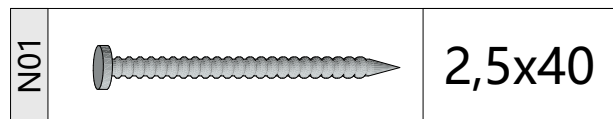
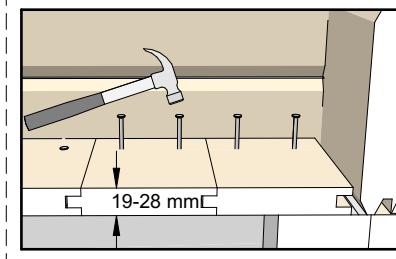
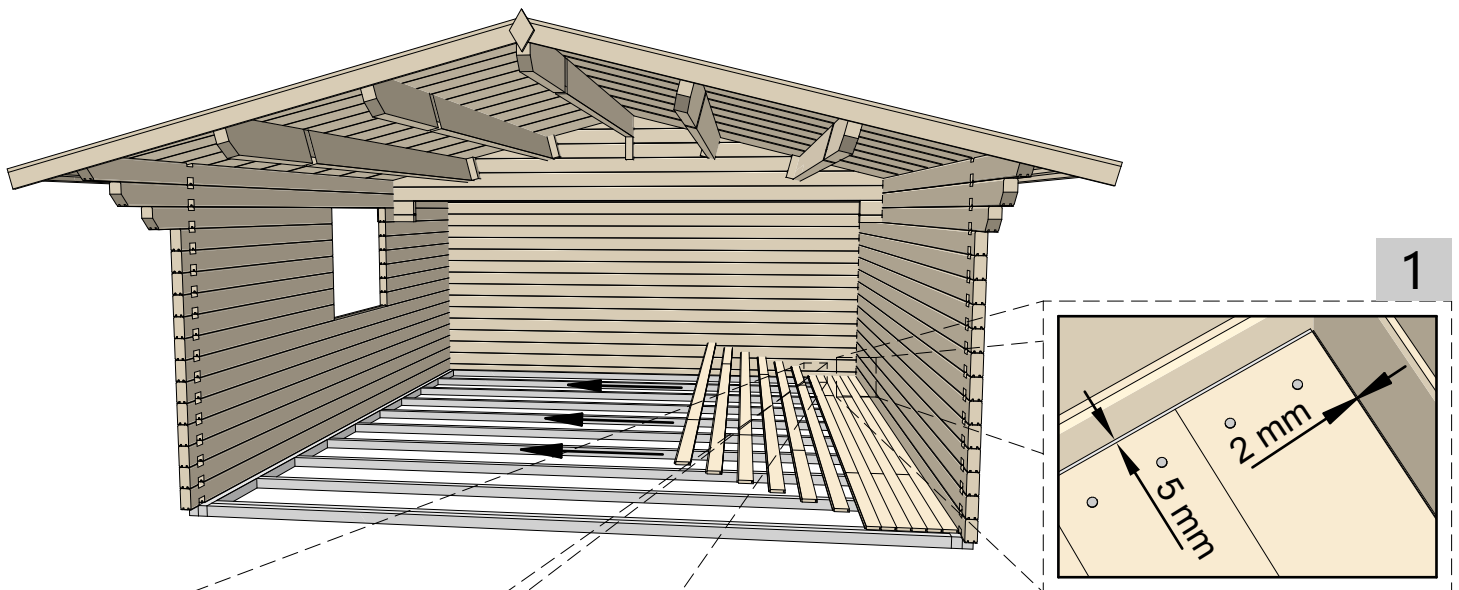
**Attention: do not fasten storm braces strongly, because wall logs should be easily shrink and expand.**



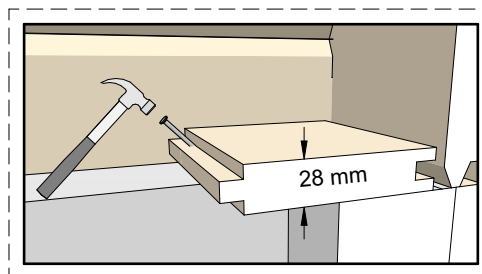
W01	S01		8x50
			M10

1. Firstly measure the total height from bottom (floor) to top (roof). Notice that from the bottom is minimum 50mm distance between trims and storm brace beam, from side wall it should be minimum 100mm distance between wall and storm brace beam and between the roof and the top of storm brace beam distance should be minimum 25mm;
2. After measures are made, cut the storm brace beam to the correct length;
3. At the bottom drill hole for screw, keeping minimum 25mm distance from the end of supporting beam;
4. Install 1x screw 8x50+M10 washer at the bottom of the storm brace beam. Make sure screw fixed in the 1st full wall log beam;
5. Install 1x screw 8x50+M10 washer at the top, it should be fixed on the 1st wall log of the gable.

# Floor boards



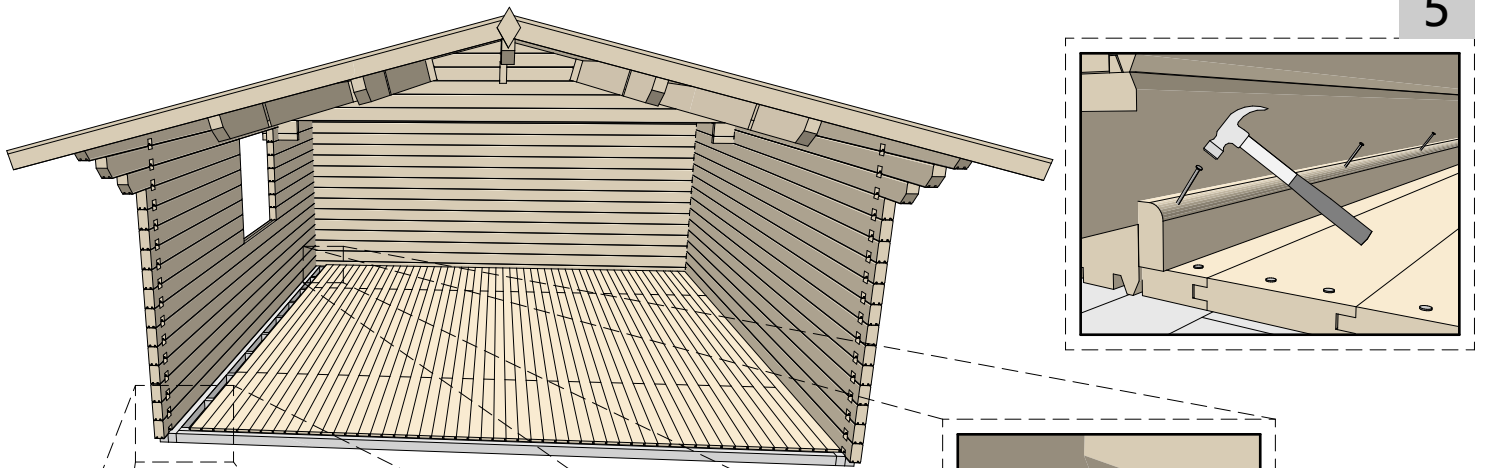
1. Start installing floor boards from left to right or opposite way from right to left. It's important while installing floor boards keep space gaps from side wall minimum 2mm and minimum 5mm in length (usually floor boards are cut 5mm shorten then the length of the room);
2. Use 2x of 2,5x40 nails per 1 connection point (connection point is where floor board and floor bearer crosses). Installation of different thickness floor boards (19mm and 28mm) is the same.



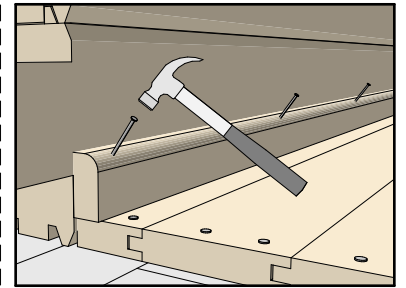
Option 2: there is a 2nd option for installing floor boards. It's possible, install nails in the hidden way (from the tongue side). Nailing should be made by the angle directly to the floor bearer. Notice that this option is recommended for 28mm floor boards only.



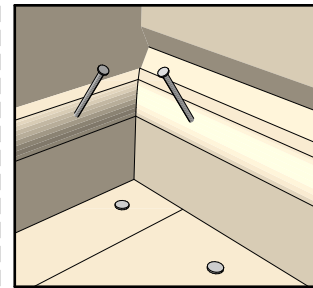
# Floor boards and trims



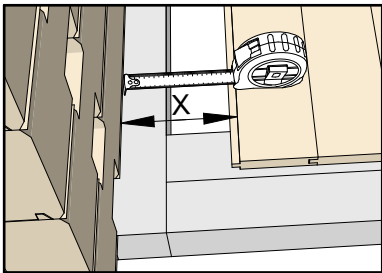
5



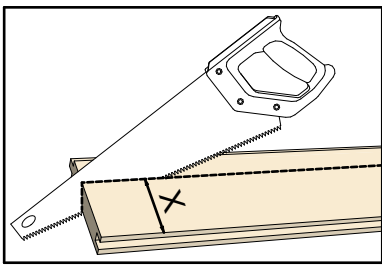
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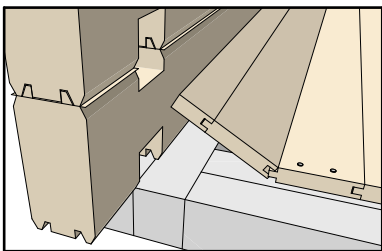
1



2



3



N01



2,5x40

1. When installation of floor boards almost finished, measure the gap between floor board and wall;
2. Saw the last floor board in length according to the measures (make sure between last floor board and wall leave at least 2mm gap);
3. Easily place the last floor board to place, install nails like before;

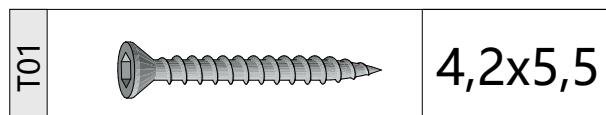
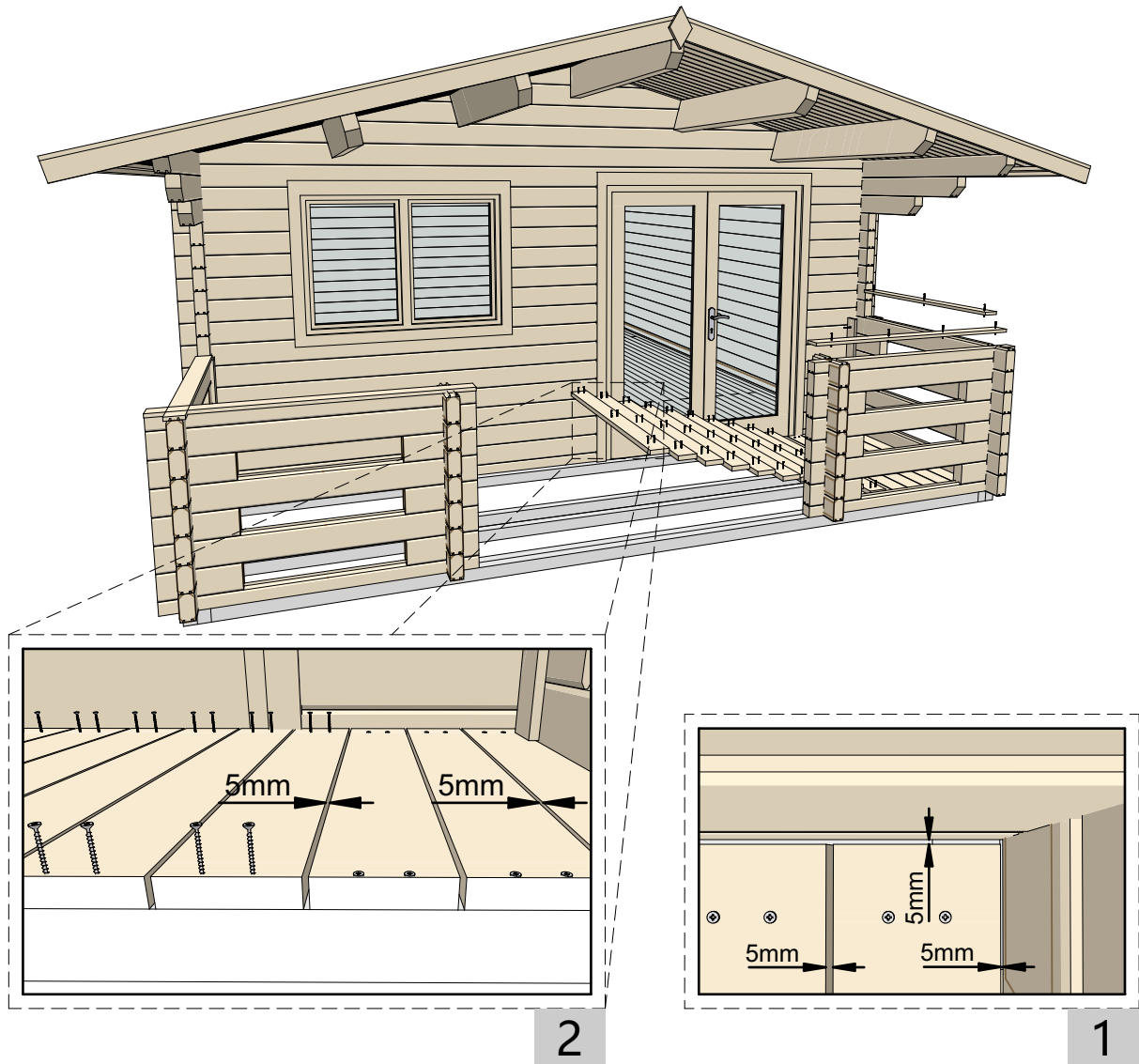
N01



2,5x40

4. The connection of trims could be made in 2 options:
  1. Cut ends by 45° (to have connection as it shown in the image);
  2. Use perpendicular connection with 90° of trims.
5. While fixing the trims use nails 3x40 every 1 meter distance.

# Terrace boards



1. Start install terrace boards from the left or right side. Make sure there is a 5 mm gap in length and at least 5mm from the side;
2. Use 2x of 4x50 screws per connection point. It's very important make minimum 5mm space between terrace boards (it's necessary, because terrace board should easily shrink and expand).

