# TITLE SHEET





## CONTENTS


| | | |
|---|---|---|
| 1. | Title sheet, contents | R-01 |
| 2. | Pile plan | R-07 |
| 3. | Beams on piles | R-08 |
| 4. | Foundation joist plan | R-09 |
| 5. | Plan | R-10 |
| 6. | Section 1–1 | R-11 |
| 7. | Elevations | R-12 |
| 8. | Walls A and C – layouts | R-13 |
| 9. | Wall B, terrace railing, lock 3* | R-14 |
| 10. | Walls 2, 3, 4, 5 with gables | R-15 |
| 11. | Roof plan | R-16 |
| 12. | Window and door plan | R-17 |
| 13. | Windows, doors, trims | R-18 |
| 14. | Specification | R-19 |
| 15. | Additional materials (roof covering, rainwater system, beams) | R-20 |
| 16. | Assembly instructions – general rules | R-02 |
| 17. | Assembly instructions: 16 steps | R-03...R-06 |


**3D model – on timberframedrawings.com**

(click a part to see its number and dimensions)

## Log cabin 6.8 × 4.8 m with terrace – drawings and assembly instructions

Based on the manufacturer's structural drawings (part list, gables, trims) and the pile plan.

Logs 44×135, external wall size 6800 × 4800 (7000 × 5000 including log ends), terrace 1700 × 4800 under the same roof.

Rooms: main room 3834 × 4712, hall 1106 × 2334, rooms 1684 × 2334 and 2834 × 2334 – 31.19 m² in total.

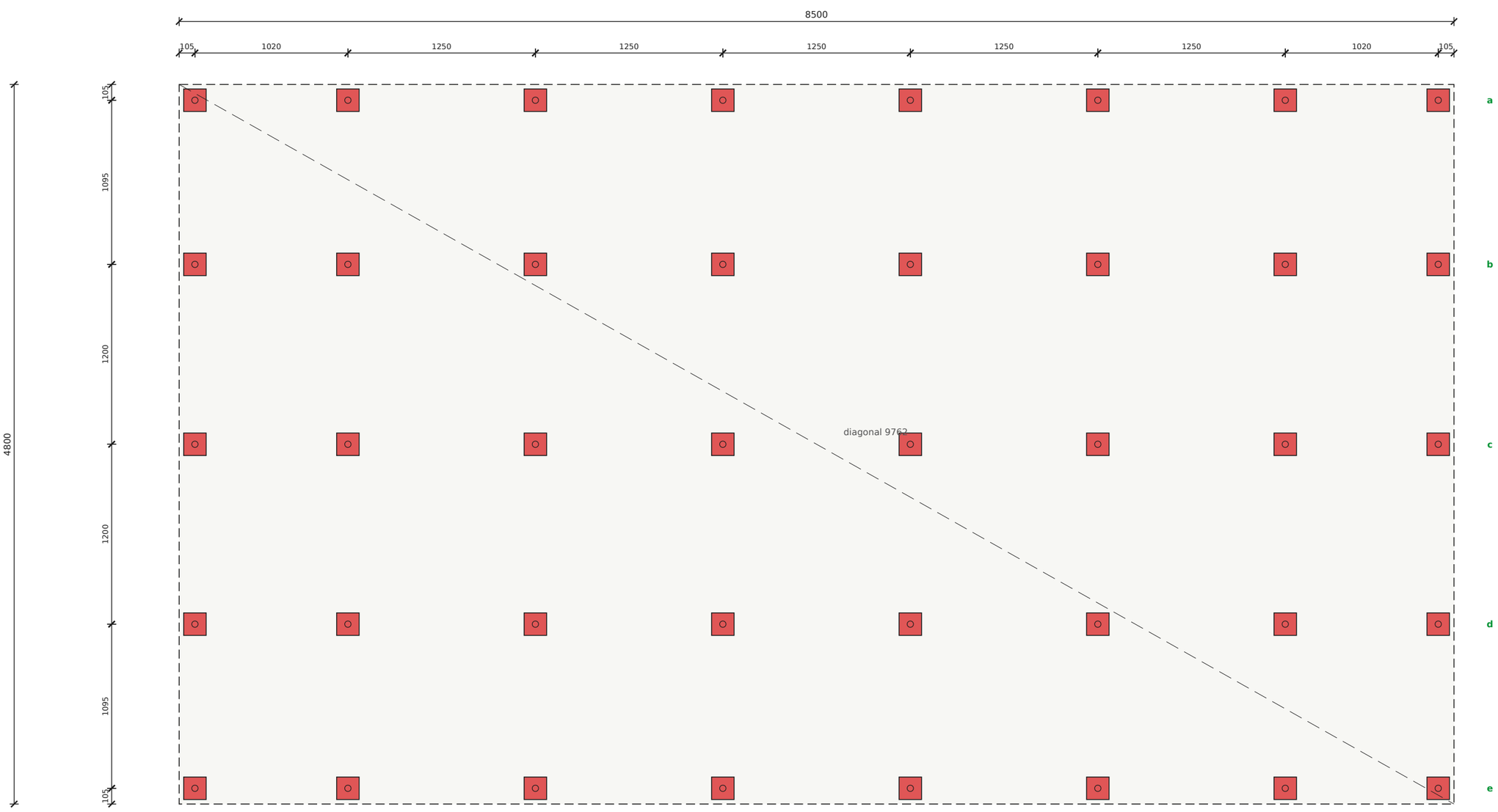
Roof – pitched 12.8°, longitudinal purlins (2 × 44×135) on the gables, roof boards 18 mm; ridge +2763.

Foundations – 40 piles, foundation frame and the manufacturer's 45×50 foundation joists.

# PILE PLAN

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

M 1:30




**40 piles (8 × 5) – per the pile plan.**

Pile axes from the foundation edge: lengthwise 105 / 1020 / 1250 × 5 / 1020 / 105, across 105 / 1095 / 1200 / 1200 / 1095 / 105.

Heads 150×150 – all at one level (±5 mm), check with a level. Foundation edge = outside of walls + terrace (6800 + 1700) × 4800.

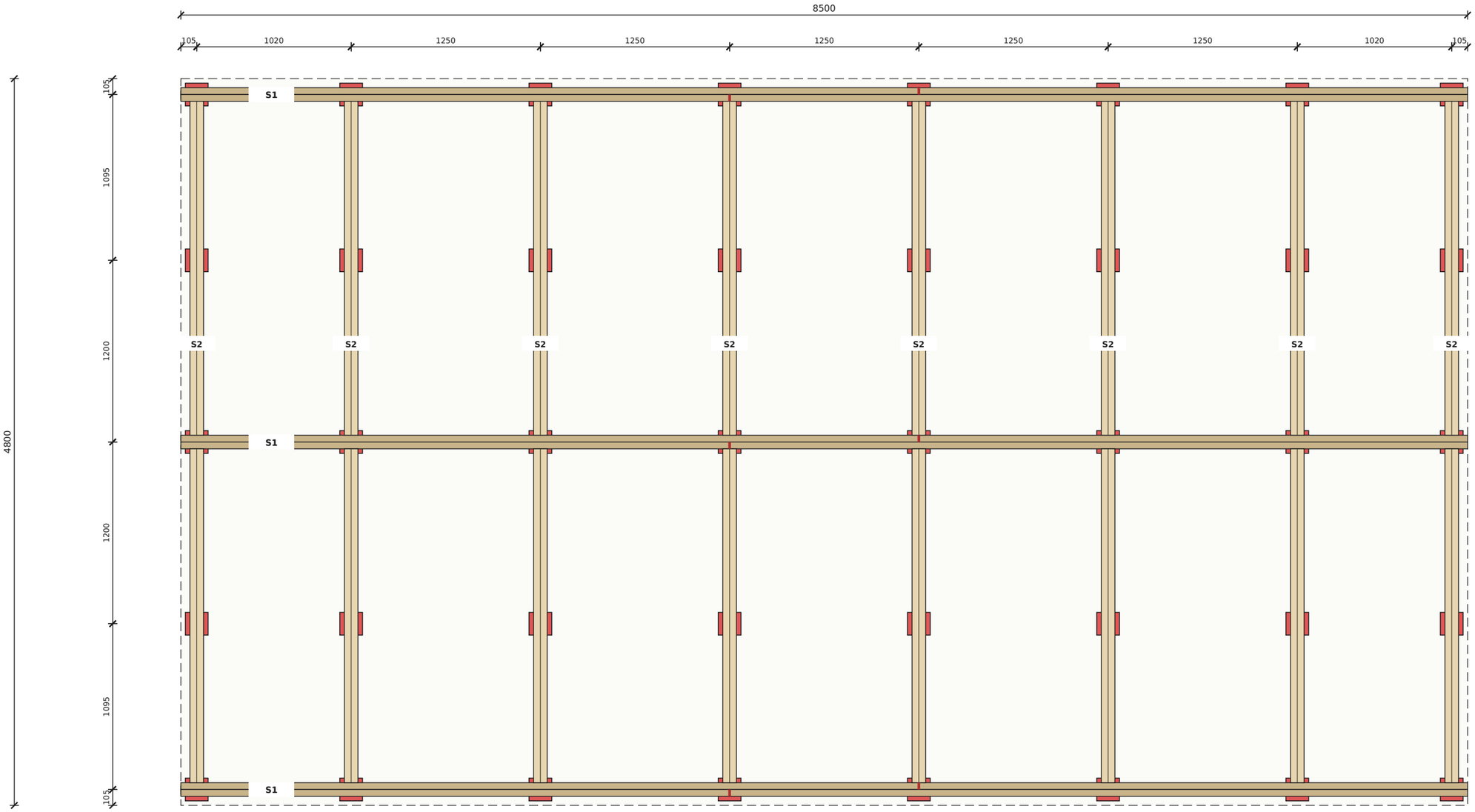
Pile depth, diameter and heads – per the pile manufacturer / contractor (not given in the pile plan).

Pile axes are marked 1–8 and a–e (these are not wall axes 1–5 / A–C).

# BEAMS ON PILES

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

single frame · 1:30




## BEAMS ON PILES – SINGLE FRAME (section – ours, not given in the pile plan)

| Mark | Name | Section | L | Qty | Note |
|---|---|---|---|---|---|
| **S1** | Longitudinal beam (rows a, c, e), 2 boards | 2×45×195 C24 treated | 4875 + 3625 | 3 rows | joints on piles, staggered |
| **S2** | Cross beam (rows 1–8), 2 boards | 2×45×195 C24 treated | 2205 / 2205 | 8 rows | between S1, on piles b and d |

**A single frame at one level (pile plan):**

S1 – lengthwise on pile rows a, c, e, continuous, joints only on a pile and staggered between the boards (red marks);

S2 – across on each pile row 1–8, between S1 (connected with angle brackets / joist hangers), bearing on piles b, d.

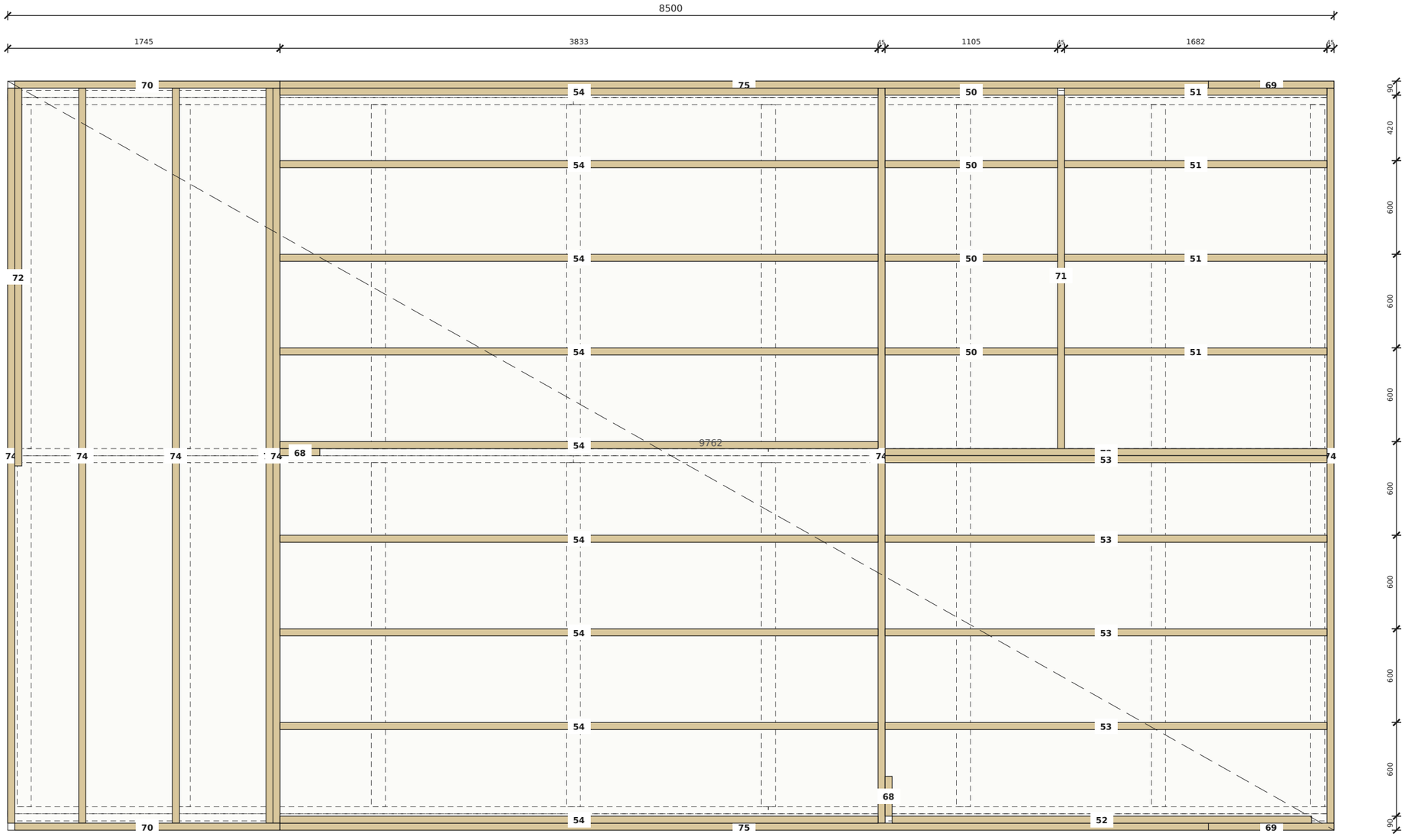
On the frame – only the manufacturer's 45×50 joists (R-09).

Top – one level ±5 mm; fixing to the heads – per the pile manufacturer.

# FOUNDATION JOIST PLAN

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

manufacturer's joists 45×50 · 1:30




**Joists 45×50 – manufacturer's kit, laid directly on frame S1 / S2 (dashed).**

Cross joists 74 (4710) – under walls 2 (two side by side), 3, 5 and on the terrace; under wall 4 – 71 (2310), terrace edge – 72 (2421).

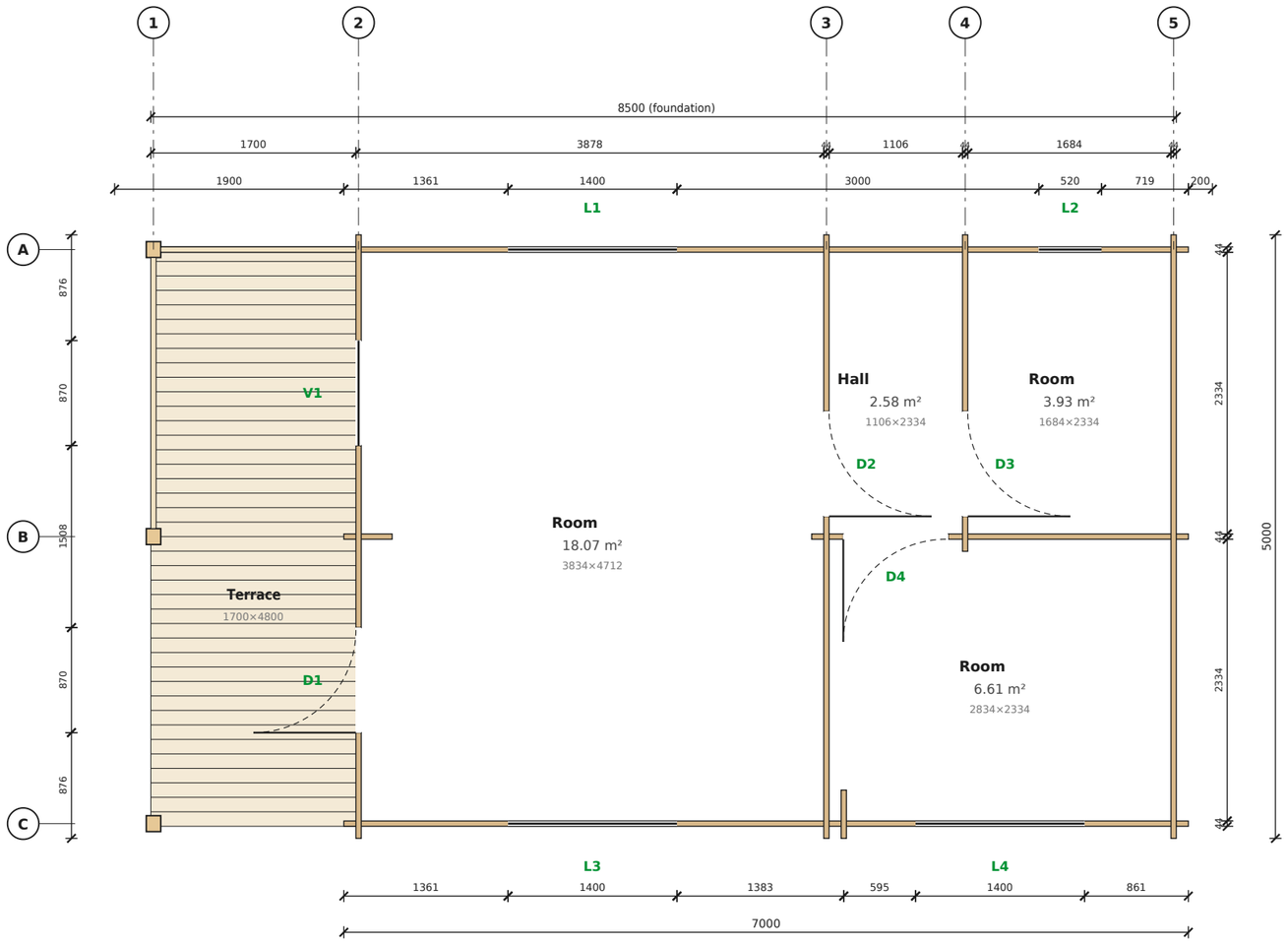
Longitudinal 54 / 50 / 51 / 53 at 600 – for the floor boards; at the edges under walls A and C – 75 (5950) + 69 (850), under wall B – 73 + 53, terrace edges 70 (1700).

Fix the joists to the frame; before the logs – check the top level (±0) and the diagonal 9762.

# PLAN

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

1:50 · section at 300 mm height




**General data**

Manufacturer's design, logs 44×135 (corners – notched with 100 mm projection).

Internal area 31.19 m² (4 rooms), covered terrace 1700×4800.

Opening heights from the bottom of the logs: windows 878–1958 (L2 – 1418–1958), doors and glazed unit 0–1958.

Windows and doors – manufacturer's: L1, L3, L4 – 1380×1050 double casement, L2 – 500×500, D1–D4 – 850×1920, V1 – fixed glazing 850×1920.

Dimensions – from log axes / faces; foundation 8500×4800 – pile plan (sheet R-07).

# SECTION 1–1

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

M 1:25

**Structure**

Logs 44×135 notched at the corners.

Roof – no rafters down the slope: longitudinal purlins (beams) of 2 boards 44×135, bearing on gables 2, 3, 4, 5; at 594.5 mm.

Ridge beam – top of wall B (2 courses).

Eaves beams – top of walls A, C.

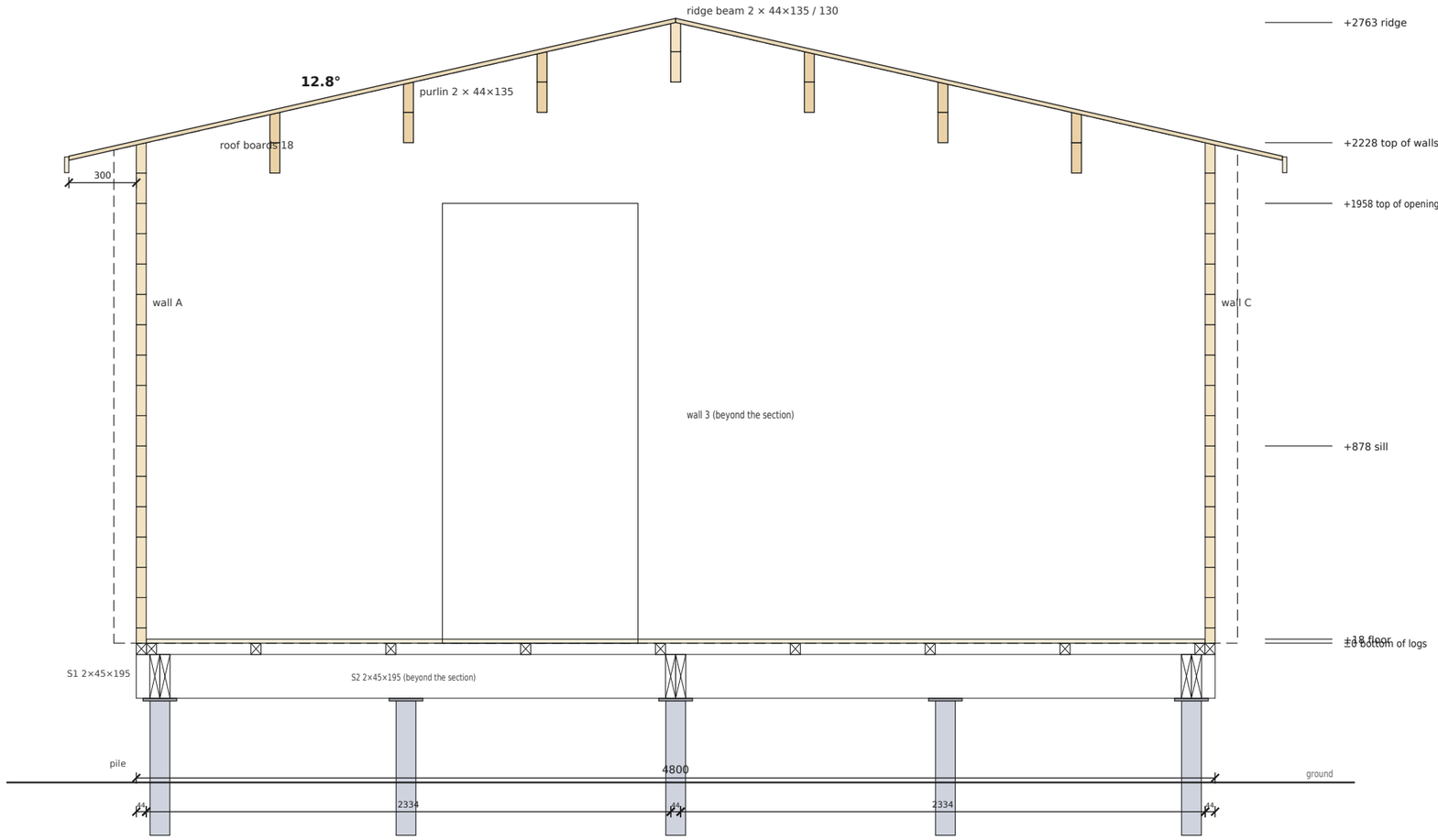
Roof boards 18×113 – from ridge to eaves (610 + 2159), roof pitch 12.8°.

Overhangs: eaves ~300, east end 300, terrace side – to the post line +322.

**Roof covering – not included in the kit**

(on the roof boards – per the chosen covering).

**SECTION 1–1** at x = 2000 (main room), looking towards wall 3, 1:25



# ELEVATIONS



### ELEVATION C (SOUTH)



### ELEVATION A (NORTH)



### ELEVATION 2 – TERRACE SIDE (WEST)



### ELEVATION 5 – END (EAST)



# WALLS A AND C – LAYOUTS

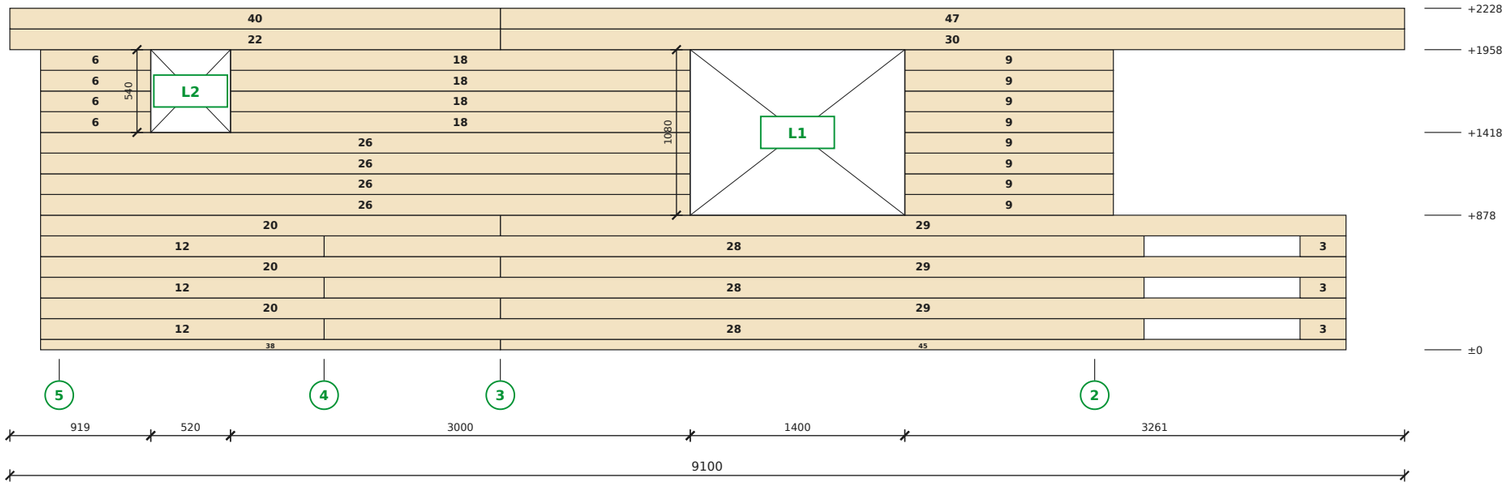


**Log numbers – per the manufacturer's part list (LIST, sheet R-19).**

Logs 44×135; "N" – half starter 44×68
or finishing log.
Bottom course in the long walls – half log,
in the cross walls – full (half-lap joint).
Joints: A – alternating at axes 3 and 4,
C – at axis 3 and lock 3* (logs 4 / 33).
Top 2 courses – eaves beams over the full length
(5900 + 3200, joint at axis 3), bearing on
terrace posts 78.

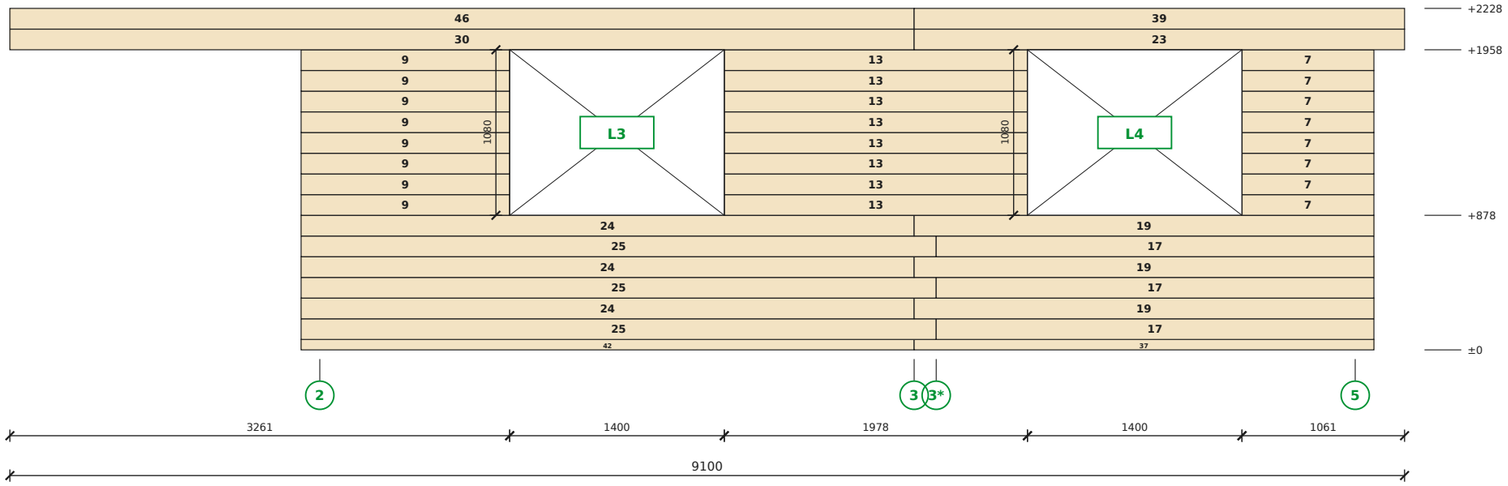
## WALL A

view from outside (from the north)




## WALL C

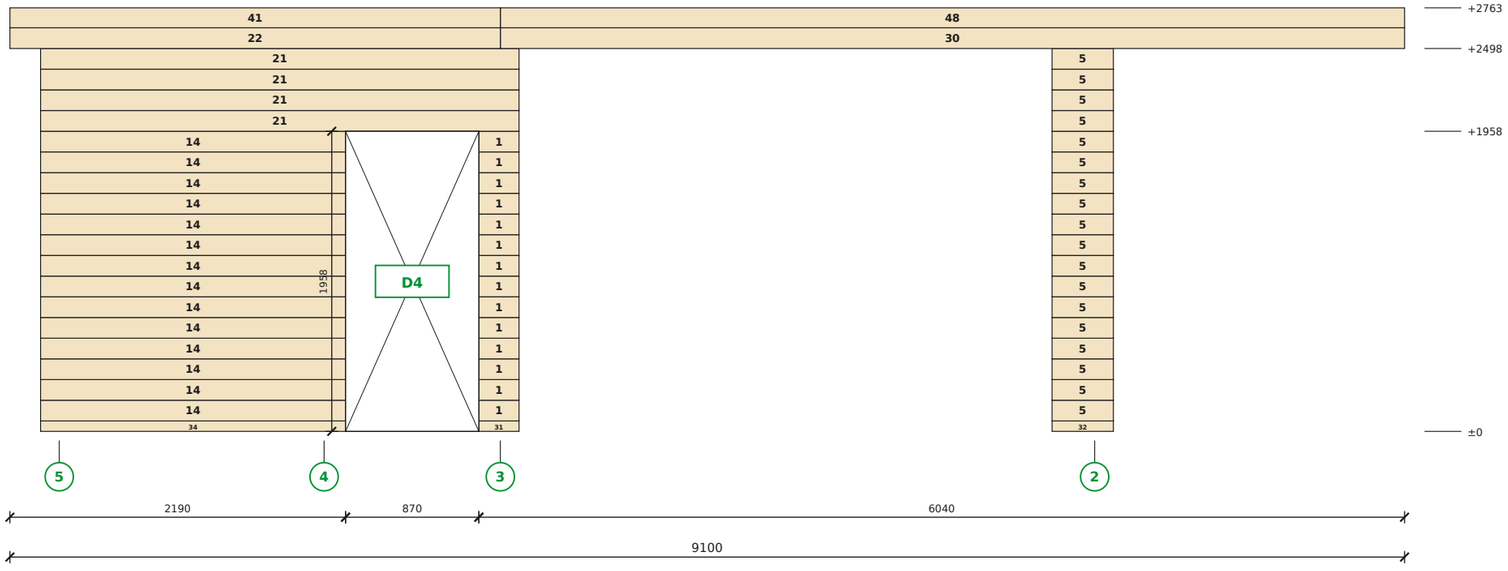
view from outside (from the south)



# WALL B, RAILING, LOCK 3*

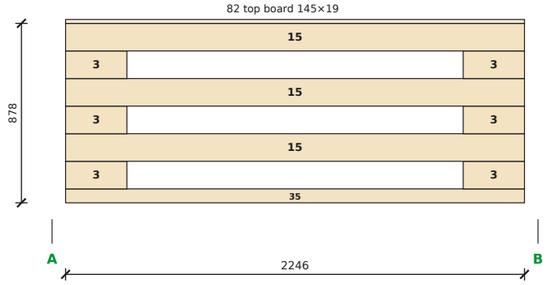
## WALL B (RIDGE WALL)

view from the north (from side A)



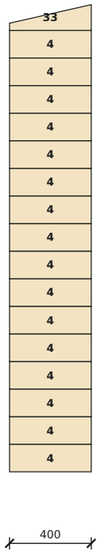

## TERRACE RAILING (AXIS 1)

between posts 78 (A) and 79 (B), view from the west, 1:30




## LOCK 3*

wall C at 3*, 1:30




**Wall B:**

in the east part (between axes 3 and 5) – a full wall with door D4,

in the main room there is no wall – only short locks

(logs 5 at axis 2 and 1 at axis 3, projecting 100 into the room).

At the top – a ridge beam of 2 courses (30+22 and 48+41, 44×130 bevelled),

joint at axis 3; on the terrace it bears on post 79 (2565).

**Railing:**

courses alternate – full log 15 and two 300 mm inserts 3

at the posts; the ends are clamped by strips 80 (28×28×878) on both sides.

**Lock 3*:**

logs 4 (400) 16 courses + 33 on top – lock the joint in wall C,

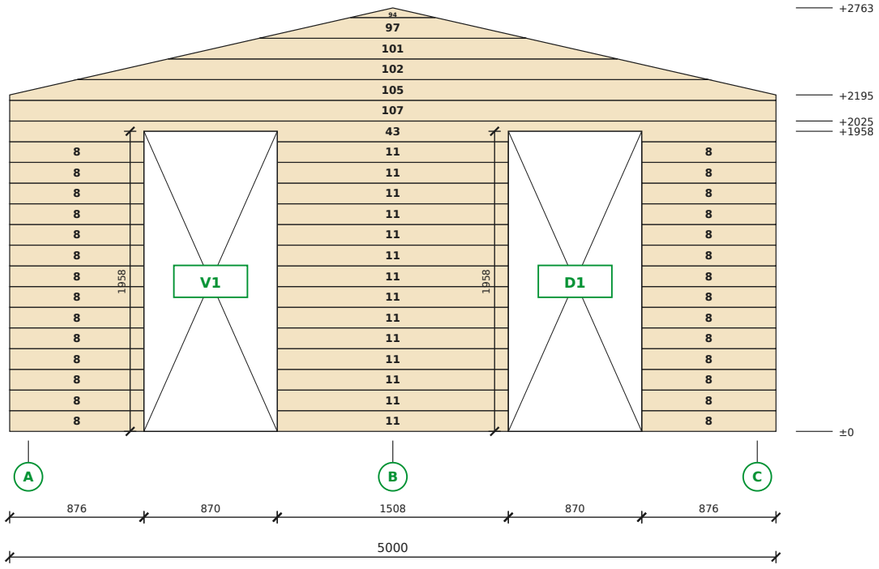
projecting 100 outside and 300 inside.

# WALLS 2, 3, 4, 5 WITH GABLES



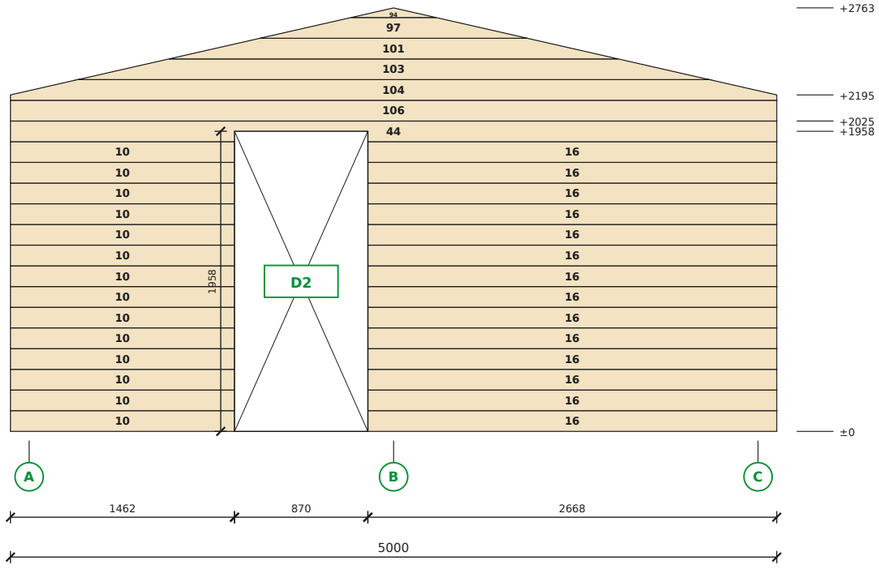
## WALL 2 (TERRACE SIDE)

view from the terrace (from the west)



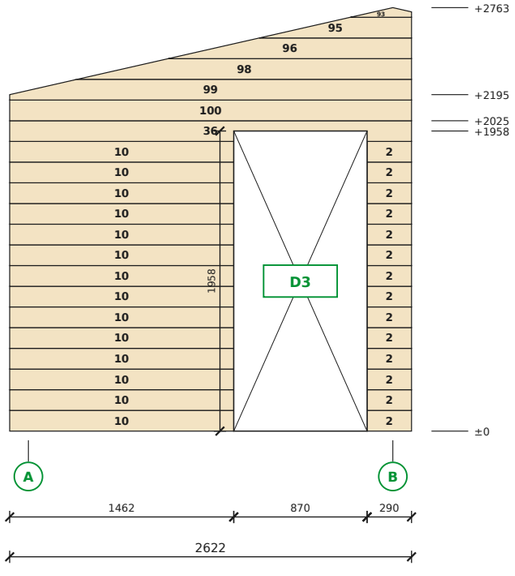

## WALL 3

view from the west



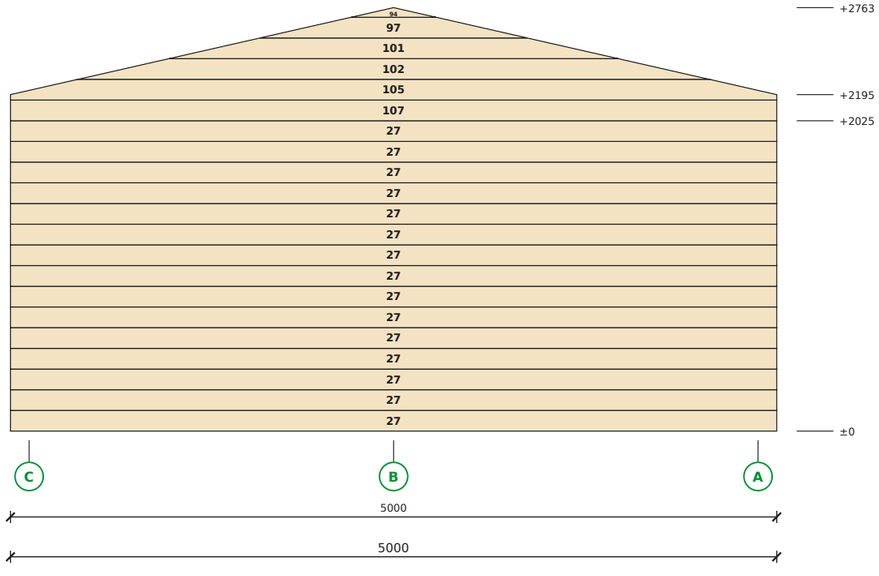

## WALL 4 (HALF GABLE)

view from the west




## WALL 5 (END)

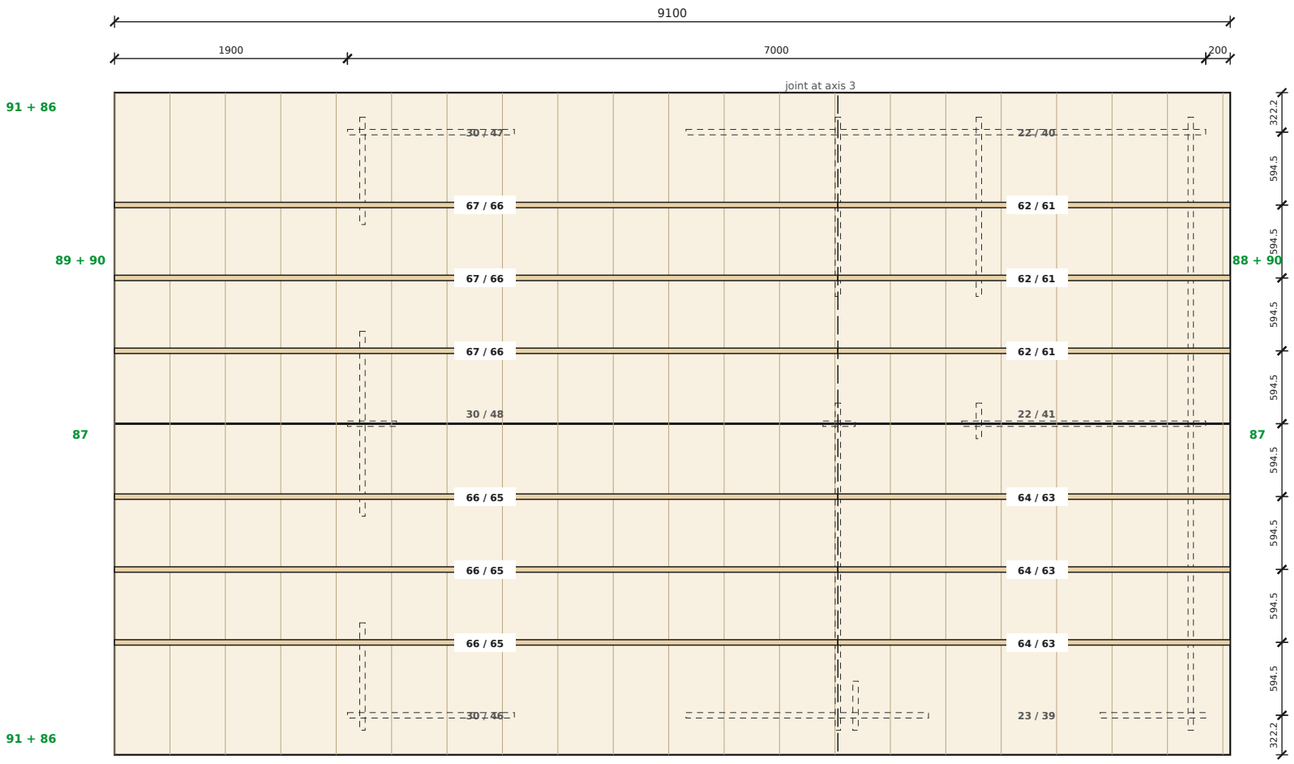
view from outside (from the east)



# ROOF PLAN

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

purlins, roof boards, trim · 1:50




**Purlins (longitudinal beams)**

Each – 2 boards 44×135 on top of each other, the upper one bevelled to the pitch; 5900 (west side) + 3200 (east), joint at axis 3.

Slope A: 67 / 66 + 62 / 61; slope C: 65 / 66 + 63 / 64; blocks 49 (6 pcs) – at the joints per the manufacturer's roof plan.

Roof boards 18×113: at the ridge 83 (610), lower 84 (2159), joint above the 3rd purlin from the ridge.

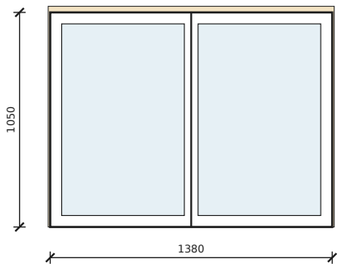
Trim: fascia board 91 (19×70) and edge strip 86 (35×44), at the terrace end – barge board 89 (45×145), at the east end – 88 (19×145), at both – strip 90 (19×70) and diamond 87.

# WINDOW AND DOOR PLAN

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

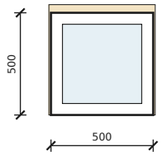
types, sizes, locations · 1:30

### L1 · L3 · L4



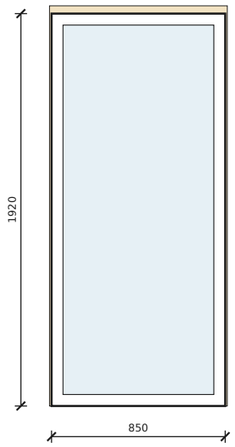

Window 1380×1050, double casement (3 pcs)
opening 1400×1080, sill +878
L1 – wall A, L3, L4 – wall C
trims X3

### L2



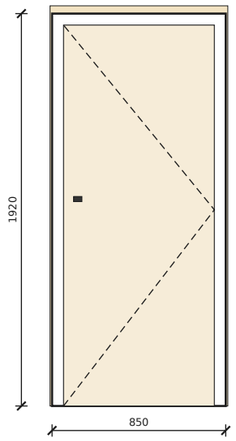

Window 500×500 (1 pc)
opening 520×540, bottom +1418
wall A (east room)
trims X1

### V1



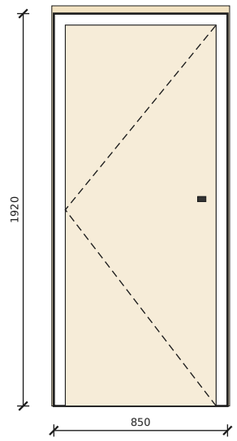

Fixed glazing 850×1920 (1 pc)
opening 870×1958, wall 2 (terrace)
trims X5

### D1



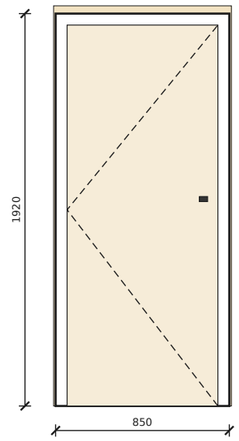

Door 850×1920, wall 2
opens OUTWARDS (to the terrace), view from the terrace – hinges on the right (C side)
opening 870×1958, trims X5

### D2



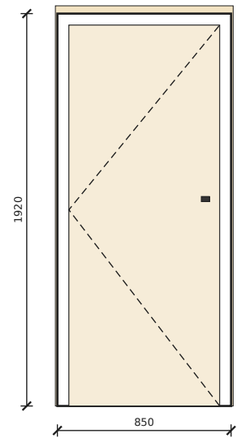

Door 850×1920, wall 3
opens into the hall, view from the hall – hinges on the left (B side)
opening 870×1958, trims X5

### D3



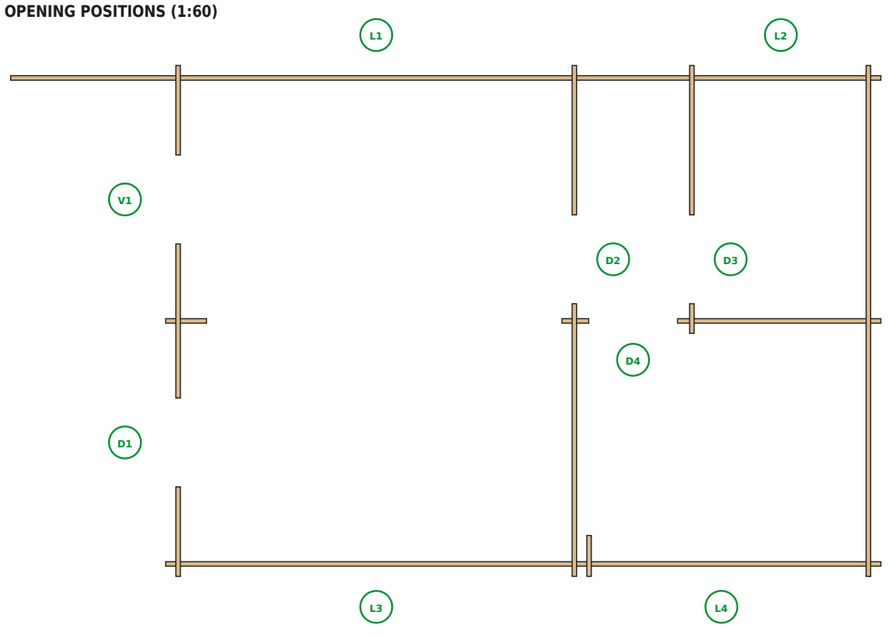

Door 850×1920, wall 4
opens into the east room, view from the room – hinges on the left (B side)
opening 870×1958, trims X5

### D4




Door 850×1920, wall B
opens into the south room, view from the room – hinges on the left (axis 3 side)
opening 870×1958, trims X5

## OPENING POSITIONS (1:60)




**Notes**

Units – manufacturer's (on the manufacturer's plan: "Doppelfenster 1380×1050", "Fenster 500×500", "Tür 850×1920", "Vitrine 850×1920").

Door opening directions and hinge side – per the manufacturer's plan.

Window sash opening – per the manufacturer's unit.

Opening = unit + 20 (width); above the frame – settlement gap: windows 30 mm, doors ~20 mm (floor 18).

Doors are shown from the side they open towards (apex – hinge side).

# WINDOWS, DOORS AND TRIMS

## OPENINGS, WINDOWS AND DOORS

| Mark | Wall | Unit | Opening | Height | Trims |
|---|---|---|---|---|---|
| **L1** | A | Window 1380×1050 (double casement) | 1400×1080 | 878…1958 | X3 |
| **L2** | A | Window 500×500 | 520×540 | 1418…1958 | X1 |
| **L3** | C | Window 1380×1050 (double casement) | 1400×1080 | 878…1958 | X3 |
| **L4** | C | Window 1380×1050 (double casement) | 1400×1080 | 878…1958 | X3 |
| **V1** | 2 | Fixed glazing 850×1920 | 870×1958 | 0…1958 | X5 |
| **D1** | 2 | Door 850×1920 | 870×1958 | 0…1958 | X5 |
| **D2** | 3 | Door 850×1920 | 870×1958 | 0…1958 | X5 |
| **D3** | 4 | Door 850×1920 | 870×1958 | 0…1958 | X5 |
| **D4** | B | Door 850×1920 | 870×1958 | 0…1958 | X5 |

## X3 – window 1380×1050 (3 sets)

| Nr. | Length | Width | Thickness | Pcs |
|---|---|---|---|---|
| **1** | 1530 | 120 | 18 | 2 |
| **2** | 1110 | 70 | 18 | 4 |
| **3** | 1350 | 70 | 18 | 2 |

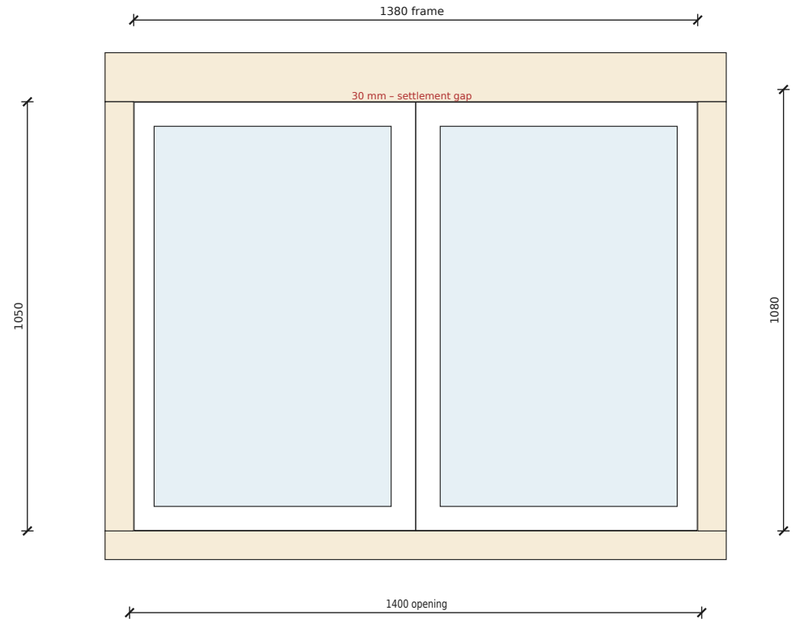
## X5 – door / fixed glazing 850×1920 (5 sets)

| Nr. | Length | Width | Thickness | Pcs |
|---|---|---|---|---|
| **1** | 1010 | 120 | 18 | 2 |
| **2** | 1940 | 70 | 18 | 4 |
| **3** | 820 | 30 | 18 | 2 |

## X1 – window 500×500 (1 set)

| Nr. | Length | Width | Thickness | Pcs |
|---|---|---|---|---|
| **1** | 662 | 120 | 18 | 2 |
| **2** | 560 | 70 | 18 | 4 |
| **3** | 470 | 70 | 18 | 2 |

## WINDOW L1, L3, L4 – OPENING AND TRIMS (1:15)




**Installation**

Frames are fitted into the openings once the walls are built to the top (log ends at openings –
with the manufacturer's profile for the frame). A gap is left above the frame for wall settlement:
windows 30 mm, doors ~20 mm (opening 1958, floor 18, door 1920).
Fill the gap only with soft insulation (wool), not foam and not screws.
Trims (X3, X5, X1) – on both sides, fixed ONLY to the frame,
not to the logs – so the walls can settle. The 120 top trim covers the gap.

# SPECIFICATION

**LOG CABIN 6.8 × 4.8 m WITH TERRACE · LOGS 44×135**

part numbers, dimensions and location

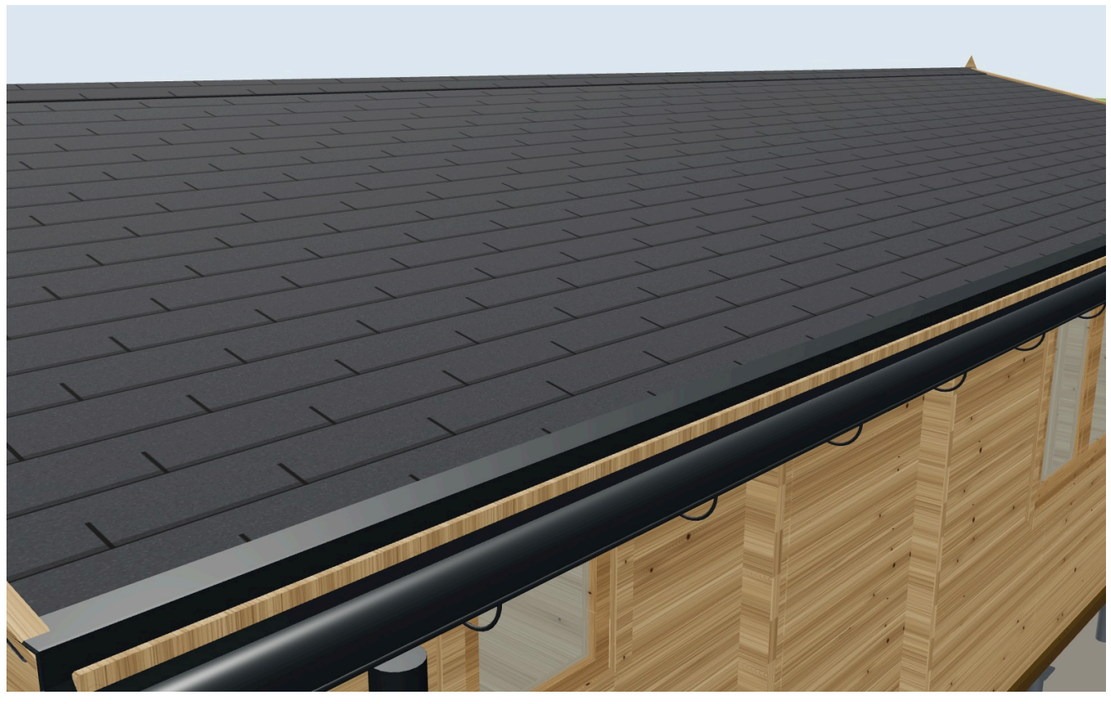
## PART LIST (per the manufacturer's LIST)

| Nr. | Name | b×h | L | Pcs | Location |
|---|---|---|---|---|---|
| **1** | Log | 44×135 | 262 | 14 | wall B |
| **2** | Log | 44×135 | 290 | 14 | wall 4 |
| **3** | Log | 44×135 | 300 | 9 | wall railing 1, A |
| **4** | Log | 44×135 | 400 | 16 | wall 3* |
| **5** | Log | 44×135 | 400 | 18 | wall B |
| **6** | Log | 44×135 | 719 | 4 | wall A |
| **7** | Log | 44×135 | 861 | 8 | wall C |
| **8** | Log | 44×135 | 876 | 28 | wall 2 |
| **9** | Log | 44×135 | 1361 | 16 | wall A, C |
| **10** | Log | 44×135 | 1462 | 28 | wall 3, 4 |
| **11** | Log | 44×135 | 1508 | 14 | wall 2 |
| **12** | Log | 44×135 | 1850 | 3 | wall A |
| **13** | Log | 44×135 | 1978 | 8 | wall C |
| **14** | Log | 44×135 | 1990 | 14 | wall B |
| **15** | Log | 44×135 | 2246 | 3 | wall railing 1 |
| **16** | Log | 44×135 | 2668 | 14 | wall 3 |
| **17** | Log | 44×135 | 2856 | 3 | wall C |
| **18** | Log | 44×135 | 3000 | 4 | wall A |
| **19** | Log | 44×135 | 3000 | 3 | wall C |
| **20** | Log | 44×135 | 3000 | 3 | wall A |
| **21** | Log | 44×135 | 3122 | 4 | wall B |
| **22** | Log | 44×135 | 3200 | 2 | wall A, B |
| **23** | Log | 44×135 | 3200 | 1 | wall C |
| **24** | Log | 44×135 | 4000 | 3 | wall C |
| **25** | Log | 44×135 | 4144 | 3 | wall C |
| **26** | Log | 44×135 | 4239 | 4 | wall A |
| **27** | Log | 44×135 | 5000 | 15 | wall 5 |
| **28** | Log | 44×135 | 5350 | 3 | wall A |
| **29** | Log | 44×135 | 5518 | 3 | wall A |
| **30** | Log | 44×135 | 5900 | 3 | wall A, B, C |
| **31** | Log N | 44×68 | 262 | 1 | wall B |
| **32** | Log N | 44×68 | 400 | 1 | wall B |
| **33** | Log N | 44×126 | 400 | 1 | wall 3* |
| **34** | Log N | 44×68 | 1990 | 1 | wall B |
| **35** | Log N | 44×68 | 2246 | 1 | wall railing 1 |
| **36** | Log N | 44×135 | 2622 | 1 | wall 4 |
| **37** | Log N | 44×68 | 3000 | 1 | wall C |
| **38** | Log N | 44×68 | 3000 | 1 | wall A |
| **39** | Log N | 44×135 | 3200 | 1 | wall C |
| **40** | Log N | 44×135 | 3200 | 1 | wall A |
| **41** | Log N | 44×130 | 3200 | 1 | wall B |
| **42** | Log N | 44×68 | 4000 | 1 | wall C |
| **43** | Log N | 44×135 | 5000 | 1 | wall 2 |
| **44** | Log N | 44×135 | 5000 | 1 | wall 3 |
| **45** | Log N | 44×68 | 5518 | 1 | wall A |
| **46** | Log N | 44×135 | 5900 | 1 | wall C |
| **47** | Log N | 44×135 | 5900 | 1 | wall A |
| **48** | Log N | 44×130 | 5900 | 1 | wall B |
| **49** | Purlin block | 44×68 | 244 | 6 | purlin blocks |
| **50** | Foundation joist | 45×50 | 1105 | 4 | floor / foundation |
| **51** | Foundation joist | 45×50 | 1682 | 4 | floor / foundation |
| **52** | Foundation joist | 45×50 | 2688 | 1 | floor / foundation |
| **53** | Foundation joist | 45×50 | 2832 | 4 | floor / foundation |
| **54** | Foundation joist | 45×50 | 3833 | 9 | floor / foundation |
| **55** | Floor board | 113×18 | 2329 | 55 | floor / foundation |
| **56** | Floor board | 113×18 | 4707 | 32 | floor / foundation |
| **57** | Skirting board | 18×30 | 46 m | 1 | skirting (46 m) |
| **61** | Purlin (longitudinal beam) | 44×135 | 3200 | 3 | purlin |
| **62** | Purlin (longitudinal beam) | 44×135 | 3200 | 3 | purlin |
| **63** | Purlin (longitudinal beam) | 44×135 | 3200 | 3 | purlin |
| **64** | Purlin (longitudinal beam) | 44×135 | 3200 | 3 | purlin |
| **65** | Purlin (longitudinal beam) | 44×135 | 5900 | 3 | purlin |
| **66** | Purlin (longitudinal beam) | 44×135 | 5900 | 6 | purlin |
| **67** | Purlin (longitudinal beam) | 44×135 | 5900 | 3 | purlin |
| **68** | Foundation joist | 45×50 | 255 | 2 | floor / foundation |
| **69** | Foundation joist | 45×50 | 850 | 2 | floor / foundation |
| **70** | Foundation joist | 45×50 | 1700 | 2 | floor / foundation |
| **71** | Foundation joist | 45×50 | 2310 | 1 | floor / foundation |
| **72** | Foundation joist | 45×50 | 2421 | 1 | floor / foundation |
| **73** | Foundation joist | 45×50 | 2832 | 1 | floor / foundation |
| **74** | Foundation joist | 45×50 | 4710 | 7 | floor / foundation |
| **75** | Foundation joist | 45×50 | 5950 | 2 | floor / foundation |
| **76** | Terrace deck board | 120×28 | 1651 | 19 | terrace |
| **77** | Terrace deck board | 120×28 | 1700 | 21 | terrace |
| **78** | Terrace post | 120×132 | 2025 | 2 | posts A, C |
| **79** | Terrace post | 120×132 | 2565 | 1 | post B |
| **80** | Railing fixing strip | 28×28 | 878 | 6 | railing ends |
| **81** | Railing top board | 145×19 | 1518 | 1 | railing A |
| **82** | Railing top board | 145×19 | 2246 | 1 | railing 1 |
| **83** | Roof board | 113×18 | 610 | 162 | roof |
| **84** | Roof board | 113×18 | 2159 | 164 | roof |
| **85** | Log (spare) | 44×135 | 5900 | 2 | spare |
| **86** | Roof edge strip | 35×44 | 4550 | 4 | roof |
| **87** | Decorative diamond | 15×200 | 400 | 2 | roof |
| **88** | Barge board | 19×145 | 3069 | 2 | roof |
| **89** | Barge board | 45×145 | 3069 | 2 | roof |
| **90** | Barge board strip | 19×70 | 3069 | 4 | roof |
| **91** | Fascia board | 19×70 | 4550 | 4 | roof |
| **92** | Storm strap (kit with ø12 bolts) | 28×44 | 1900 | 4 | storm straps (sheet 12) |
| **93** | Gable log | 44×63 | 397 | 1 | wall 4 |
| **94** | Gable log | 44×63 | 550 | 3 | wall 2, 3, 5 |
| **95** | Gable log | 44×135 | 992 | 1 | wall 4 |
| **96** | Gable log | 44×135 | 1586 | 1 | wall 4 |
| **97** | Gable log | 44×135 | 1739 | 3 | wall 2, 3, 5 |
| **98** | Gable log | 44×135 | 2181 | 1 | wall 4 |
| **99** | Gable log | 44×135 | 2622 | 1 | wall 4 |
| **100** | Gable log | 44×135 | 2622 | 1 | wall 4 |
| **101** | Gable log | 44×135 | 2928 | 3 | wall 2, 3, 5 |
| **102** | Gable log | 44×135 | 4117 | 2 | wall 2, 5 |
| **103** | Gable log | 44×135 | 4117 | 1 | wall 3 |
| **104** | Gable log | 44×135 | 5000 | 1 | wall 3 |
| **105** | Gable log | 44×135 | 5000 | 2 | wall 2, 5 |
| **106** | Gable log | 44×135 | 5000 | 1 | wall 3 |
| **107** | Gable log | 44×135 | 5000 | 2 | wall 2, 5 |

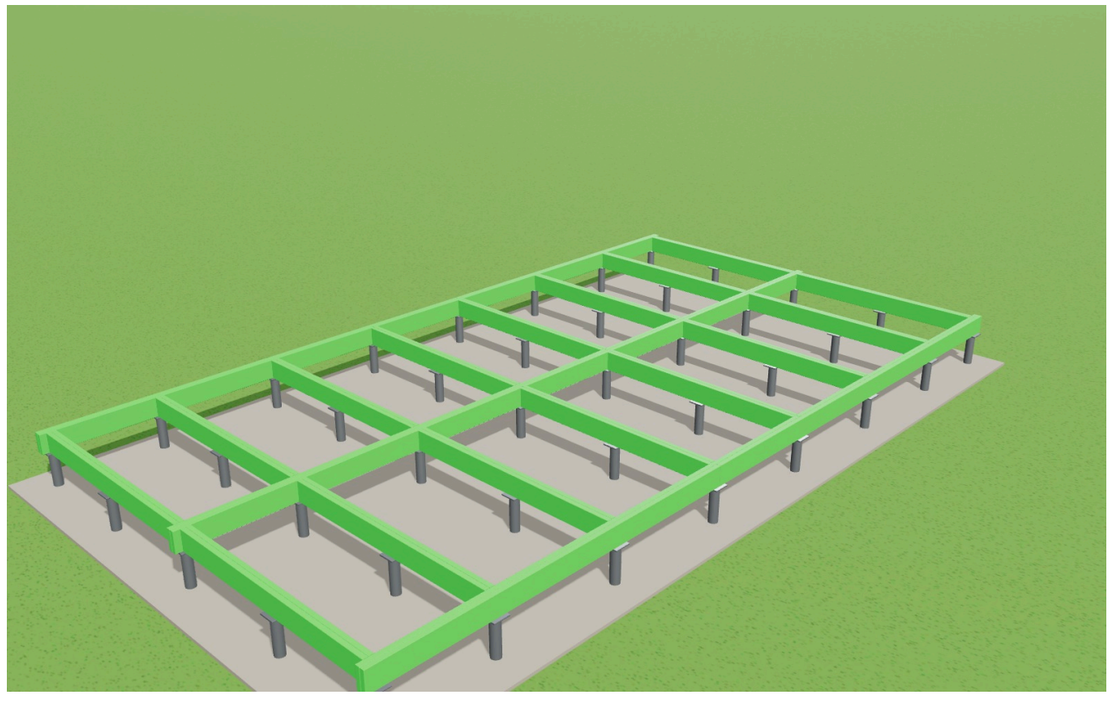
# ADDITIONAL MATERIALS

## ADDITIONAL MATERIALS (not included in the manufacturer's kit)

| Mark | Name | Unit | Qty | Note |
|---|---|---|---|---|
| **S1** | Longitudinal beams on piles 45×195 C24 treated | pcs | 6 × 4875 + 6 × 3625 | R-08 (3 rows × 2 boards) |
| **S2** | Cross beams on piles 45×195 C24 treated | pcs | 32 × 2205 | R-08 (8 rows × 2 boards × 2) |
| **–** | Joist hangers / angle brackets S2–S1 | pcs | 32 | at S2 ends |
| **–** | Piles with 150×150 heads | pcs | 40 | R-07, per the pile contractor |
| **PK** | Underlay under the bitumen shingles | m² | 51.0 | + laps |
| **BC** | Bitumen shingles, dark grey | m² | 51.0 | + waste per the manufacturer |
| **KR** | Ridge / eaves shingles | m | 9.2 | ridge + starter row 2 × 9.2 |
| **LK** | Eaves drip edge (covers strip 86, into the gutter) | m | 18.4 | anthracite |
| **–** | Half-round gutter Ø125 | m | 18.4 | 2 gutters along the full eaves |
| **–** | Gutter brackets (at 600) | pcs | 34 | on fascia board 91 |
| **–** | Gutter ends / outlets | pcs | 4 / 2 | outlets at the east end |
| **–** | Downpipe Ø90 with 2 bends and an outlet bend | set | 2 | 1 for each slope (~25 m²) |
| **–** | Downpipe clips (with slotted holes) | pcs | 4 | allow the walls to settle |
| **–** | Roofing nails, mastic | set | 1 | per the shingle manufacturer |



Eaves: shingles, drip edge into the gutter, brackets at 600, downpipe with bends.



Beams on piles – a single frame, with the manufacturer's 45×50 joists on it.

# ASSEMBLY INSTRUCTIONS

**Before you start**

Sort the parts by number (the number is written on the end / side of every log, list – R-19).

Store the logs under cover, on pallets – damp logs swell and do not close up.

The layouts (R-13…R-15) give the log numbers for each course; green in the 3D model and instructions – the parts for that step.

**Log walls – the key points**

1. First course: in the long walls (A, B, C) – half logs 44×68, in the cross walls – full logs. This forms a half-log lock at the corners.
2. Corner notches – the logs project 100 mm beyond the wall; internal walls (3, 4, B) are notched into the external walls the same way.
3. The longest log is 5900 mm. Longer walls are joined at a cross wall or a lock (3*), with joints alternating each course.
4. Tongue always facing up; tap each log down through a spacer board with a rubber mallet. Do not nail the logs to each other.
5. The walls settle during the first year: gaps above windows and doors (30 / 20 mm), trims and internal finishes – fixed to frames only,

terrace posts 78, 79 and storm straps 92 – allowing the walls to settle (slotted hole at the bottom of the storm straps).

6. Check every course with a level and measure the corner diagonals – correct any error at once, it only grows higher up.

**Roof**

Covering – dark grey bitumen shingles on underlay, drip edges into half-round gutters, 2 downpipes (east end).

Purlins – 2 boards on top of each other set into notches in the gables; all joints at axis 3 (gable 3).

Roof boards – from ridge to eaves, joint on a purlin; lay the covering (not in the kit) straight after the roof boards, so the walls do not get wet in rain.

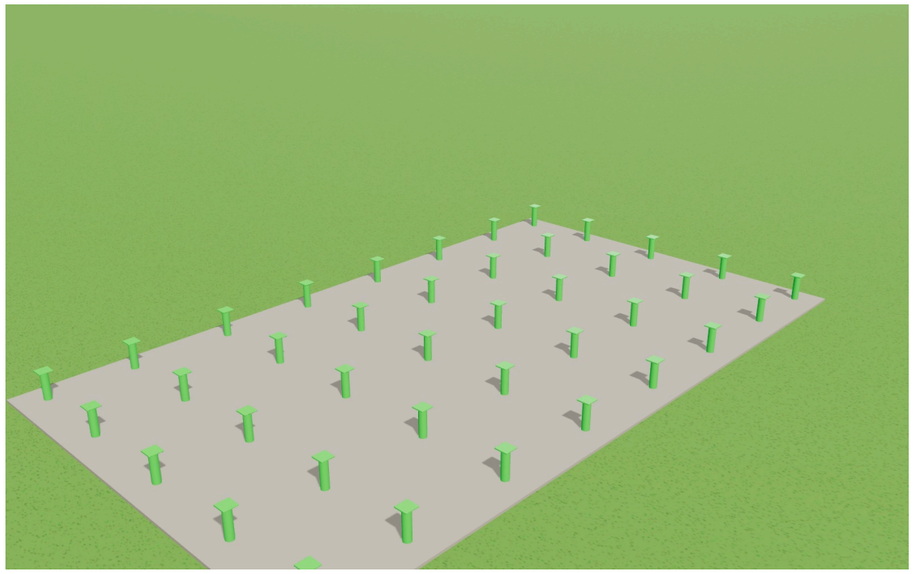
**Steps**

1. Piles
2. Beams on piles
3. Foundation joists 45×50
4. First course
5. Walls up to sill height, terrace posts and railing
6. Walls up to the top of openings
7. Lintels and wall tops (eaves and ridge beams)
8. Gables and purlins
9. Roof boards
10. Roof trim (barge boards, fascia)
11. Underlay and drip edges
12. Bitumen shingles
13. Rainwater system
14. Floor
15. Terrace decking and railing top boards
16. Windows, doors, trims

# ASSEMBLY INSTRUCTIONS

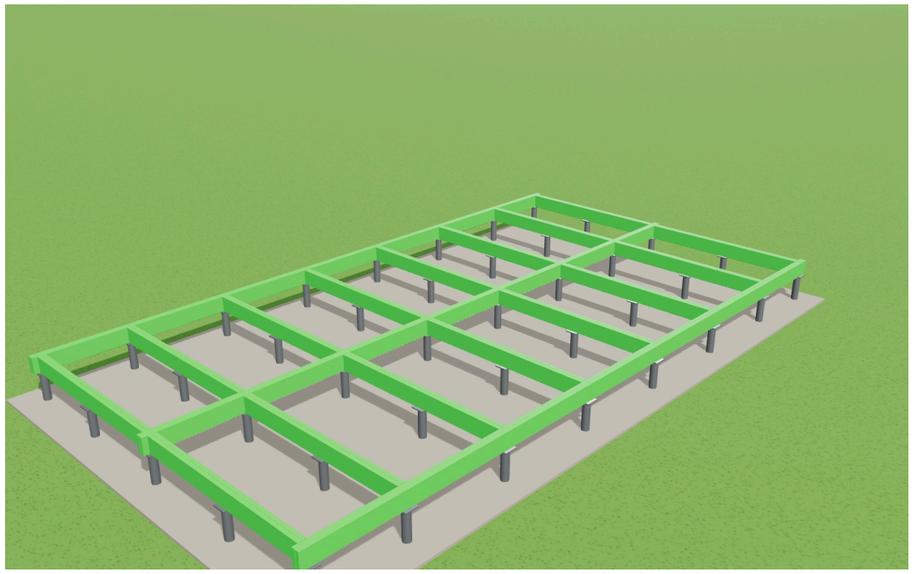


## 1 Piles



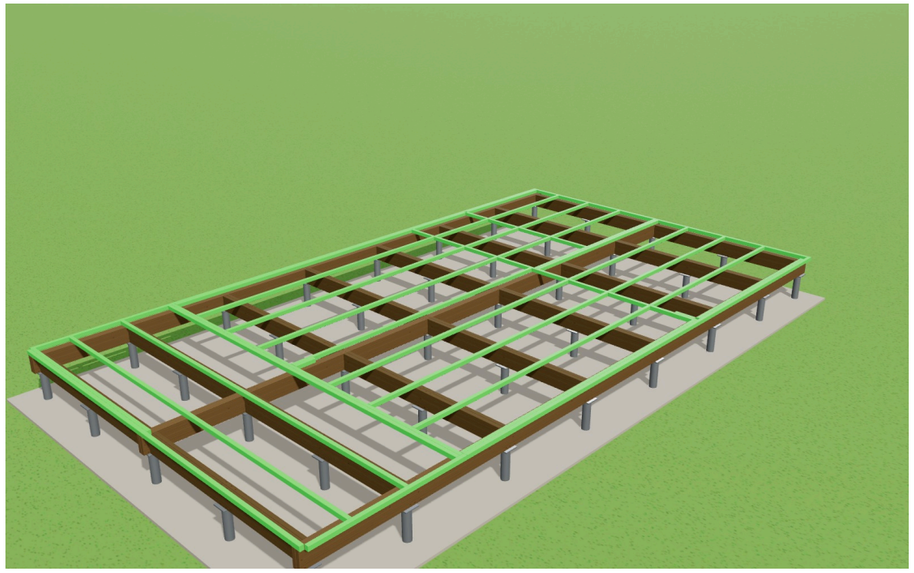
40 piles per the pile plan (R-07): grid 8 × 5, 8500 × 4800, diagonal 9762.
Heads 150×150 – at one level (±5 mm), check with a level.
Pile depth and fixing – per the pile manufacturer / contractor.

## 2 Beams on piles



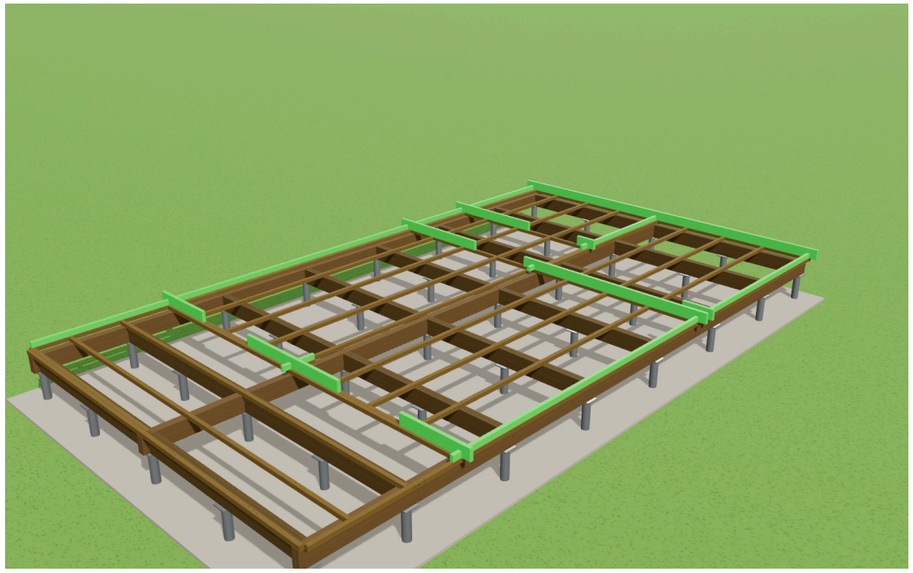
A single frame on the piles (R-08): S1 – 2×45×195 lengthwise on pile rows a, c, e (joints on piles, staggered),
S2 – 2×45×195 across on each pile row 1–8, between S1 (angle brackets / hangers).
Top of frame – one level ±5 mm; diagonal 9762.

## 3 Foundation joists 45×50



Manufacturer's 45×50 joists directly on the frame (R-09): cross joists 74 – under walls 2 (two), 3, 5 and on the terrace,
longitudinal 54 / 50 / 51 / 53 at 600, at the edges 75 + 69, under B – 73 + 53, under 4 – 71.
Top of joists = bottom of logs (±0). Fix the joists to the frame.

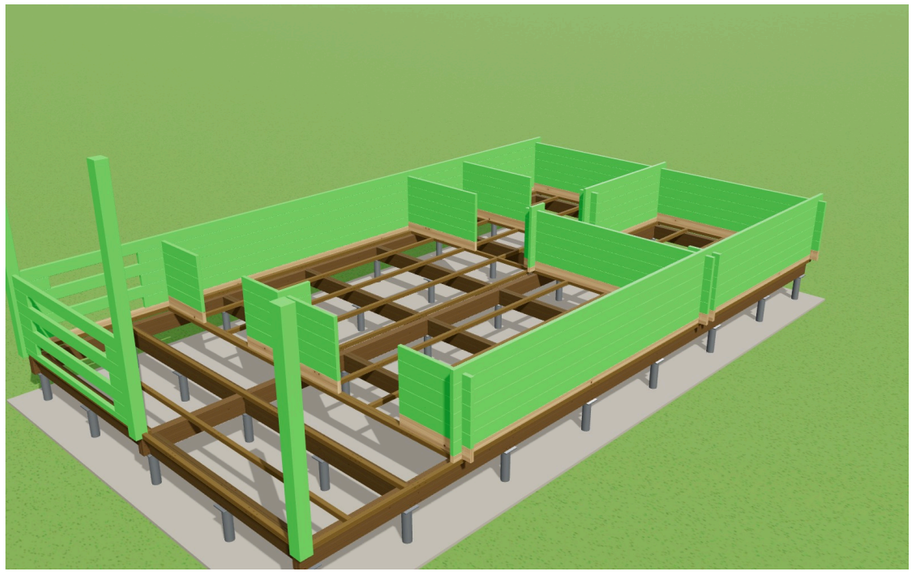
## 4 First course



For the long walls (A, B, C) – half logs 44×68: A – 45 + 38, C – 42 + 37, B – 32, 31, 34.
For the cross walls (2, 3, 4, 5) and lock 3* – full logs (8/11, 10/16, 10/2, 27, 4).
Check the rectangle: diagonals, axes 2–3–4–5 (3878 / 1150 / 1728), A–B–C (2378).

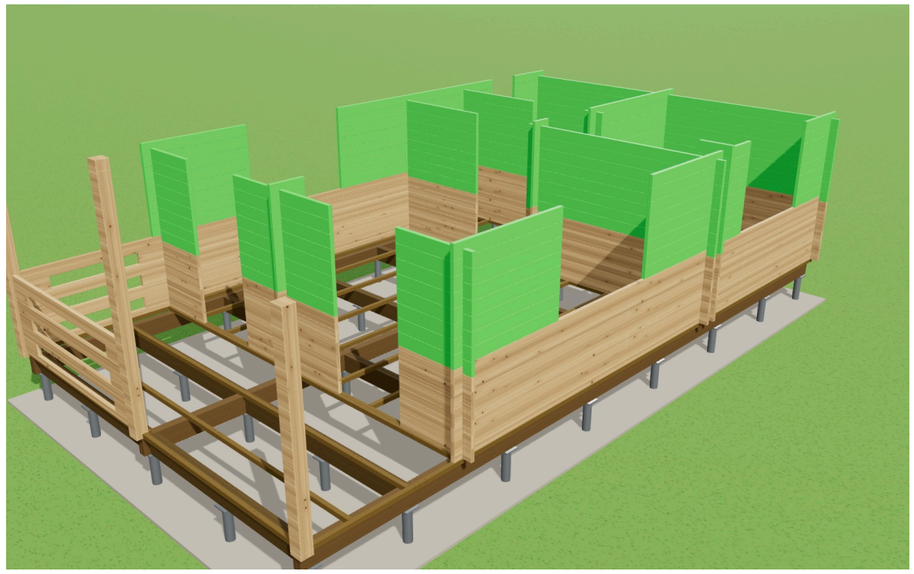
# ASSEMBLY INSTRUCTIONS

## 5 Walls up to sill height, terrace posts and railing



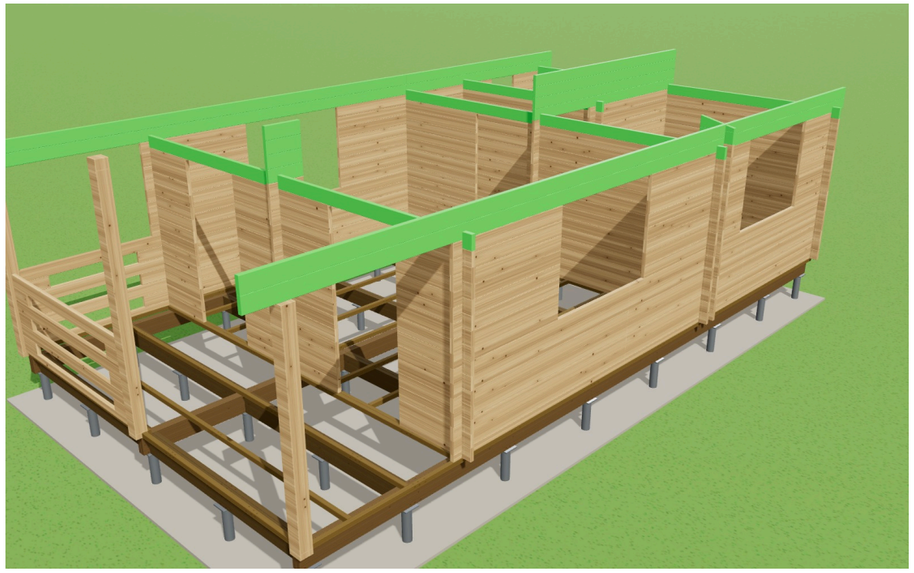
Logs are laid in courses per the layouts (R-13…R-15), joints alternating each course (A – at 3 / 4, C – at 3 / 3*). Up to sill height (+878): A and C 6 courses. Set terrace posts 78 (A, C) and 79 (B) – propped temporarily. The terrace railing courses (29, 3, 15, 35) are laid together with wall A.

## 6 Walls up to the top of openings



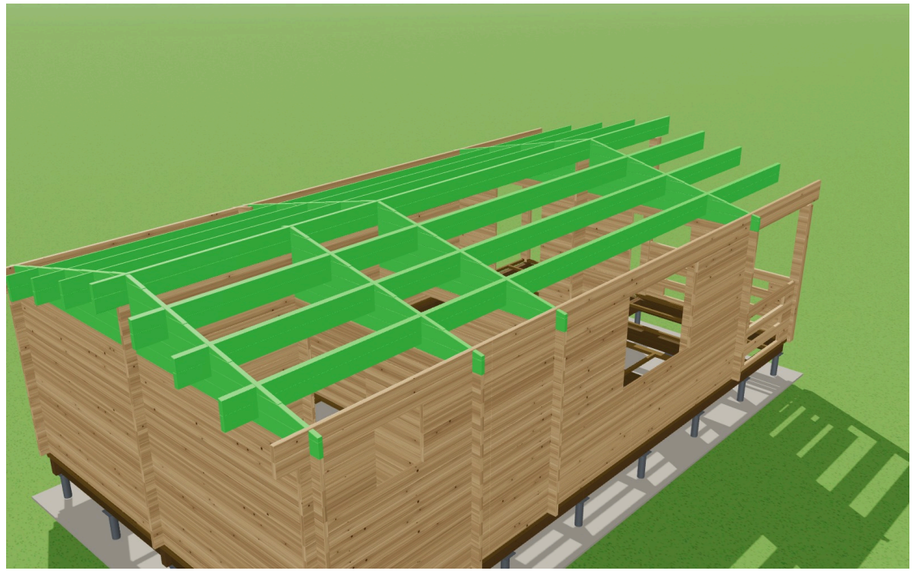
Walls up to the top of openings (+1958): at window and door openings the logs stop (L1, L3, L4 – 1400, L2 – 520, doors and glazed unit – 870). Tap each course down with a mallet through a spacer board so the tongue closes fully. Keep checking plumb and the corner diagonals.

## 7 Lintels and wall tops (eaves and ridge beams)



In the cross walls – lintels 43, 44, 36 (5000 / 2622) above the openings. In the long walls – top of A, C: two courses of eaves beams 30 + 22/23 and 47/46 + 40/39 (5900 + 3200, to the terrace posts).
Wall B: 21 (4 courses), ridge beam 30 + 22, on post 79.

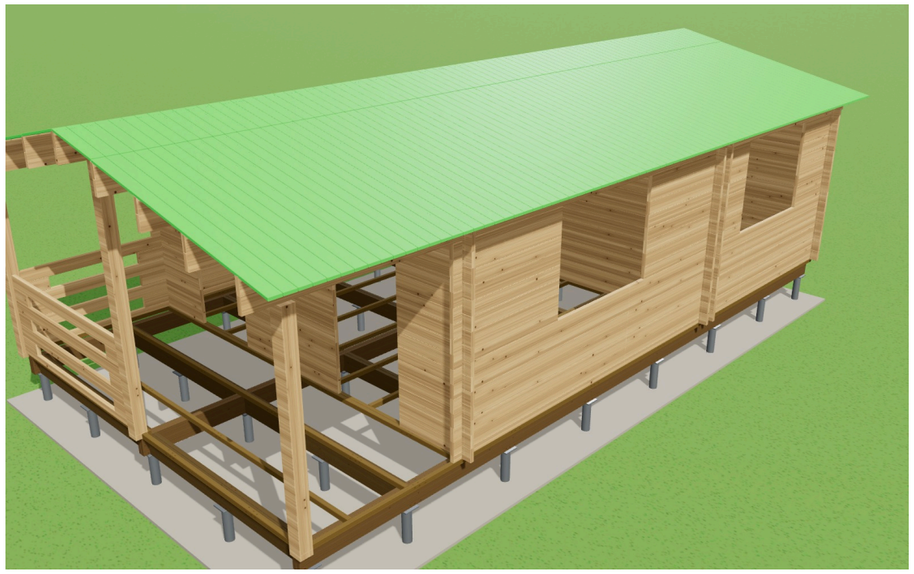
## 8 Gables and purlins



Gables: 2 and 5 – 107, 105, 102, 101, 97, 94; 3 – 106, 104, 103, 101, 97, 94; 4 – 100, 99, 98, 96, 95, 93.
Purlins – 2 boards at each position (6 positions), 5900 + 3200 with a joint at axis 3;
ridge – 48 + 41 (top of B). The gable logs are delivered bolted together from below – unbolt before installing.

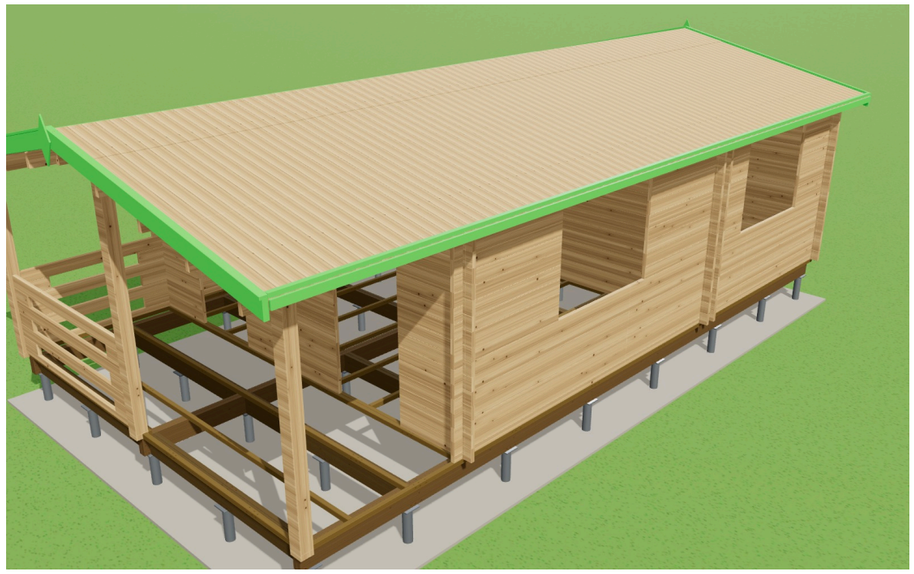
# ASSEMBLY INSTRUCTIONS

## 9 Roof boards



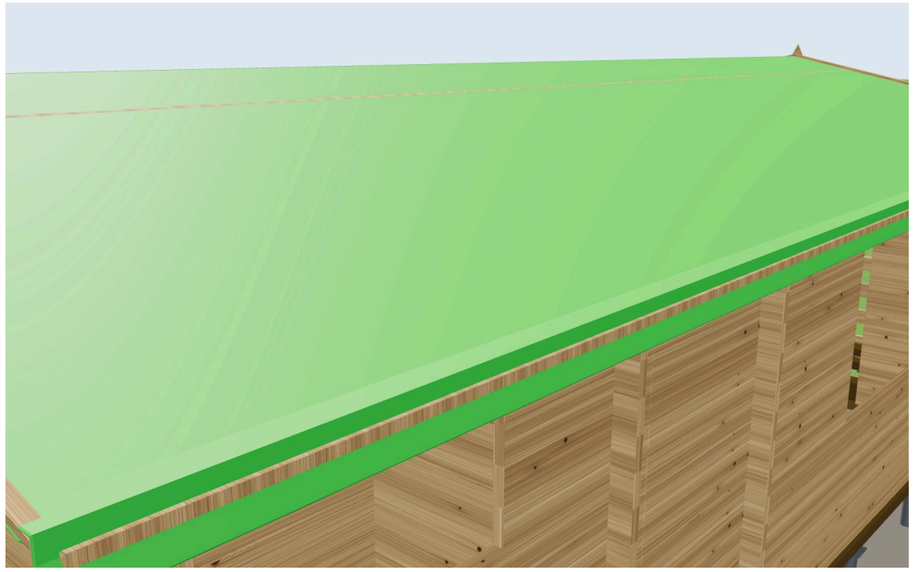
Roof boards 18×113 across the purlins – at the ridge 83 (610), lower 84 (2159).
Align the first row with the terrace end (x = −2022), nail every board to every purlin.
Board tops – flat, with no protruding nails (the shingles go on them).

## 10 Roof trim (barge boards, fascia)



Fascia boards 91 (19×70) and edge strips 86 (35×44) – on both eaves.
At the ends – barge boards 89 (45×145, terrace side) and 88 (19×145, east), strips 90 and diamonds 87.
Screw the gutter brackets to the fascia boards straight away (at 600, fall ~3 mm/m to the east).

## 11 Underlay and drip edges



Underlay (bitumen) over all roof boards, strips along the eaves, laps ≥ 100 mm.
The eaves drip edge covers edge strip 86 and leads into the gutter; nail at ~100 mm, laps 50 mm.
No flashing at the roof ends – the edges are closed by timber barge boards 89 / 88 with strips 90.

## 12 Bitumen shingles

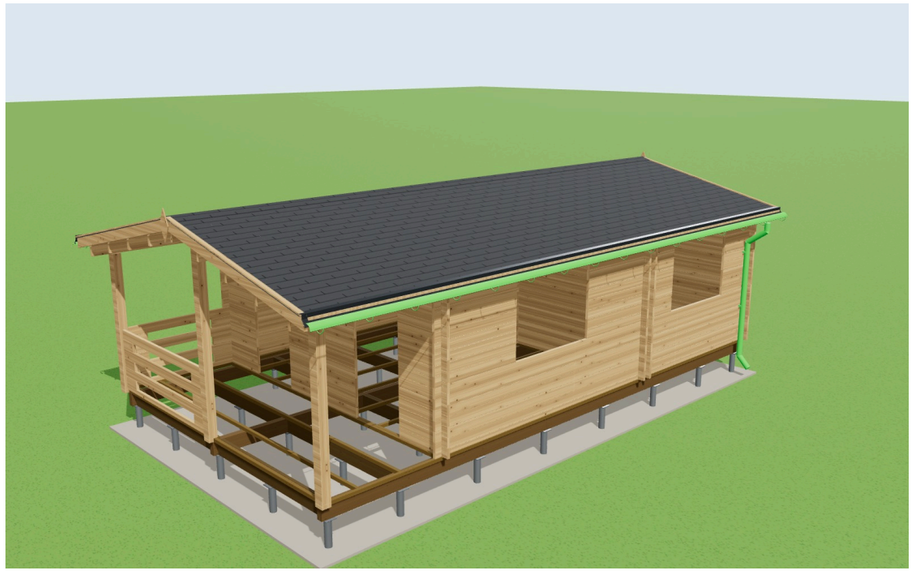


Bitumen shingles, dark grey (~51 m²) – from the eaves upwards, first row – starter strip.
Nail with roofing nails per the manufacturer's pattern (4–5 nails per shingle), rows staggered.
Ridge – ridge / eaves shingles over both slopes (9.2 m). At the ends, bond the shingle edges to barge strip 90 with mastic.

# ASSEMBLY INSTRUCTIONS

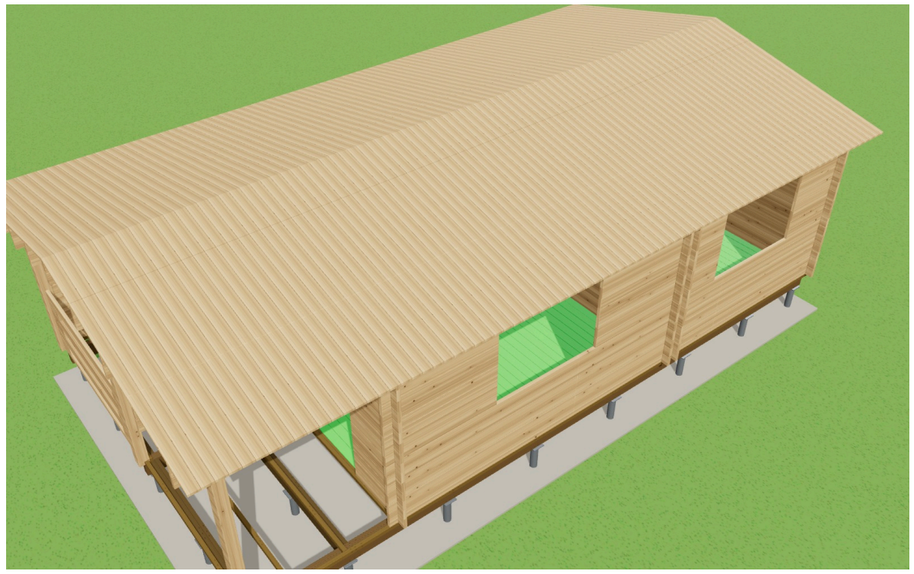


## 13 Rainwater system



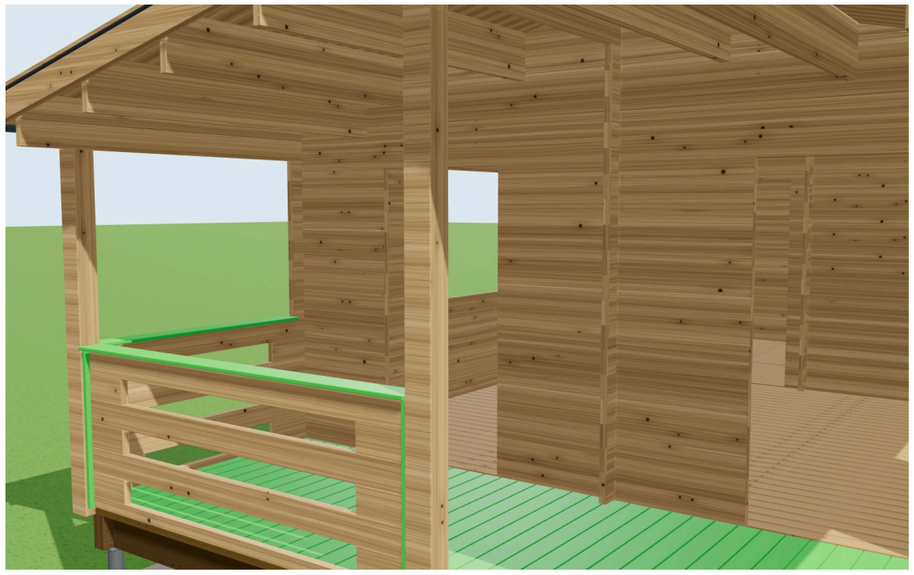
Rainwater system (anthracite): half-round gutters on both eaves along the full length (2 × 9.2 m),
ends with caps, at the east end – outlet and downpipe (1 for each slope, ~25 m²):
bends at the wall, clips to the logs with slotted holes (for settlement), outlet bend at the bottom.

## 14 Floor



Floor boards 18×113 across the longitudinal joists: in the main room 56 (4707), at the edges – 2 boards 55 each;
in the other rooms – 55 (2329). Leave a ~10 mm gap at the walls. Skirting 57 – fixed to the floor only,
not to the logs.

## 15 Terrace decking and railing top boards



Terrace decking 28×120: 76 (1651) – side A, 77 (1700) – side C.
Railing top boards 81 (railing A) and 82 (front), strips 80 – at the railing ends on both sides.
Storm straps 92 (4 pcs) – per the manufacturer's sheet 12: screw at the top into the hole, at the bottom – into the slotted hole.

## 16 Windows, doors, trims



Windows, doors and glazed unit – into the openings (R-17); above the frames – settlement gap (windows 30, doors ~20 mm).
Trims X3, X5, X1 – on both sides, fixed to the frames only (R-18). The cabin is finished.
The walls settle – check doors and windows during the first year, do not fix trims to the logs.