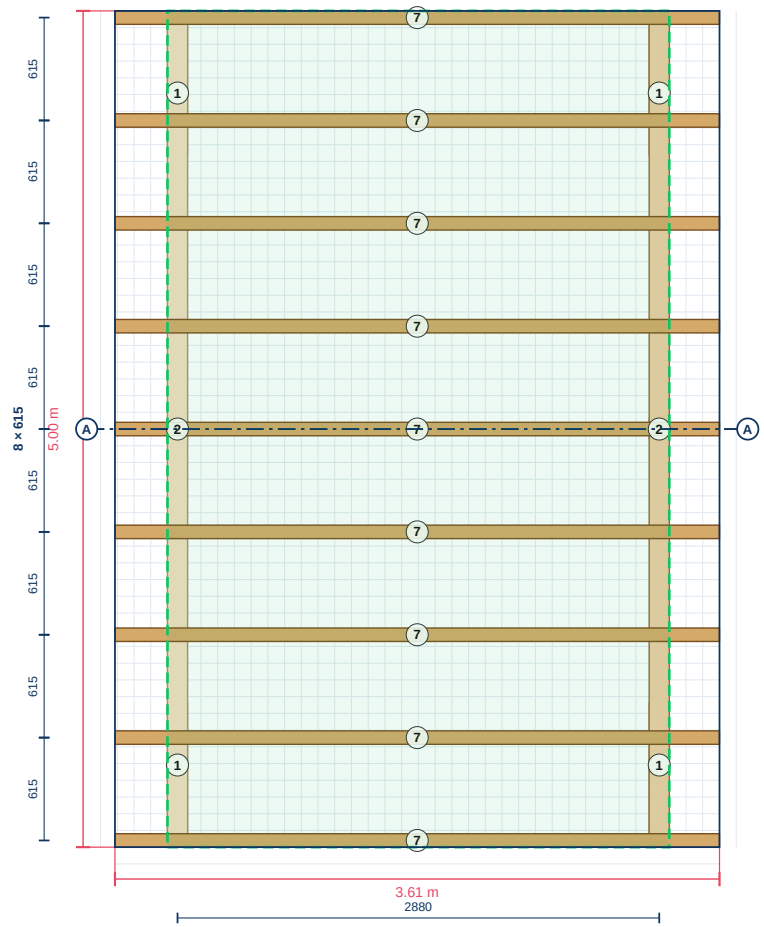
Top view (from above)

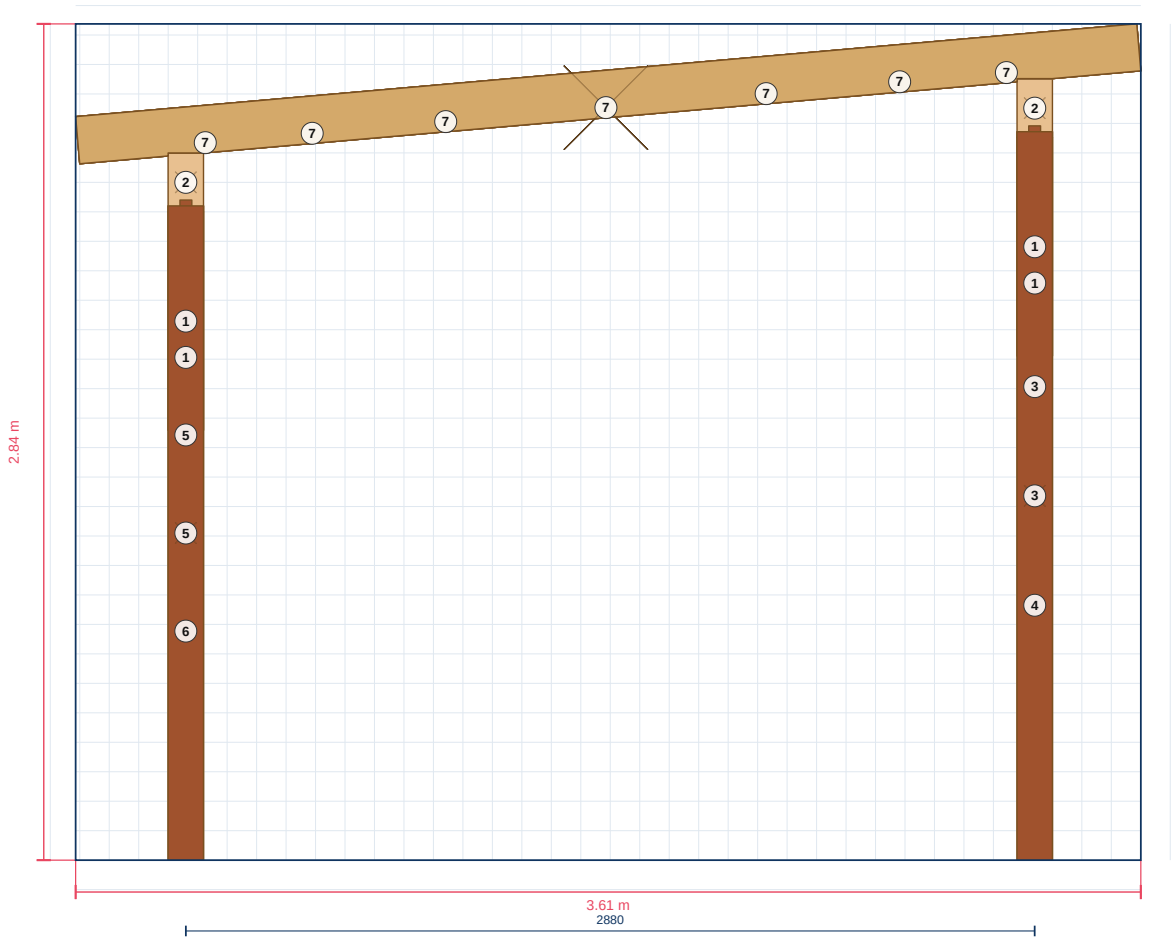


TOP VIEW fitted, approx. 1:45 1 m · 3.61 × 5.00 m

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1 of 12**

View fitted to the sheet, approx. 1:45 when printed at actual size (100 %, A4 landscape); the scale bar is exact. For a DIN scale (1:50, 1:25, 1:20), choose it under “Scale (print)”. Take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

Front view

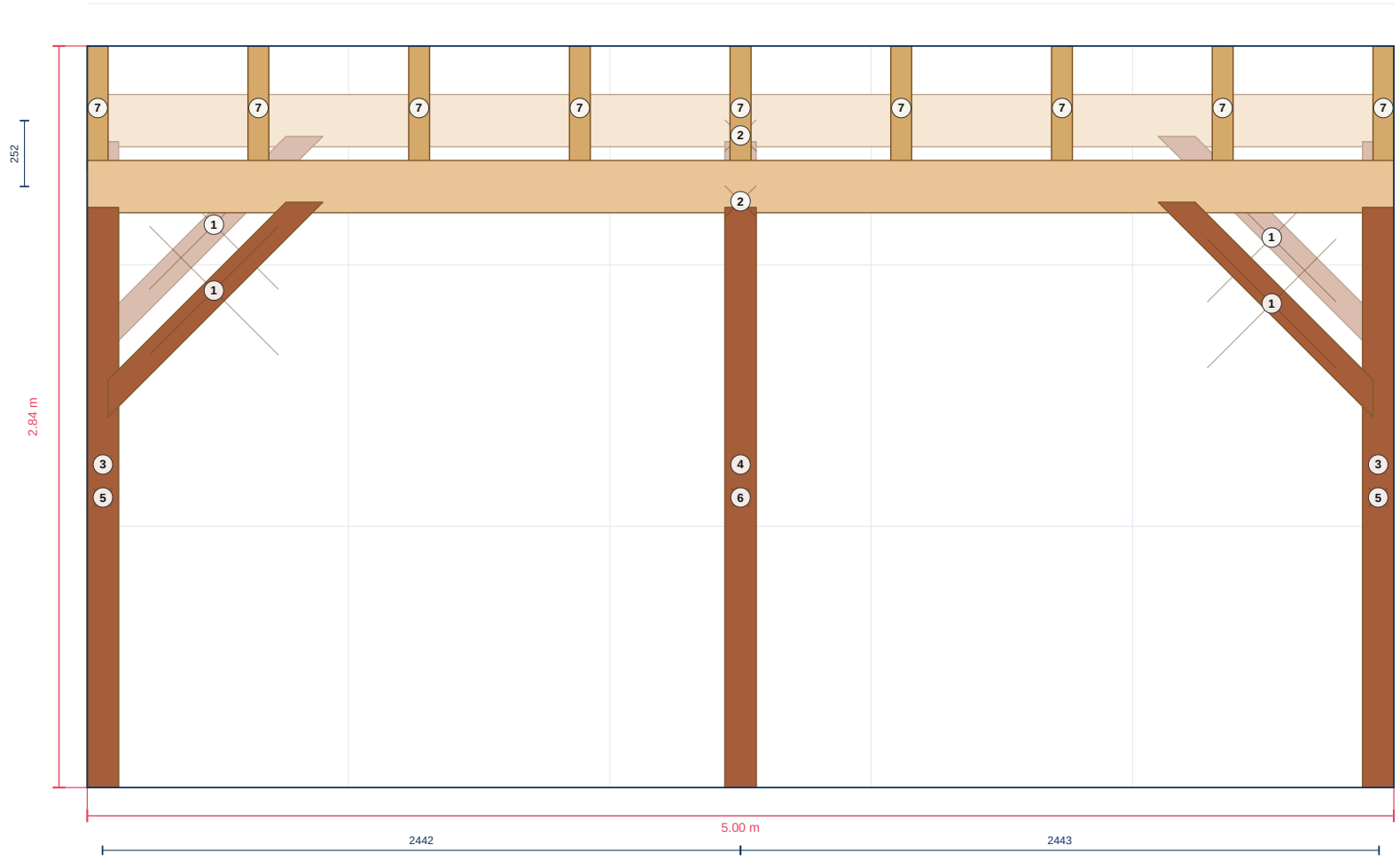


FRONT VIEW fitted, approx. 1:26 1 m · 3.61 × 2.84 m

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1b of 12**

View fitted to the sheet, approx. 1:26 when printed at actual size (100 %, A4 landscape); the scale bar is exact. For a DIN scale (1:50, 1:25, 1:20), choose it under “Scale (print)”. Take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

Side view from the left

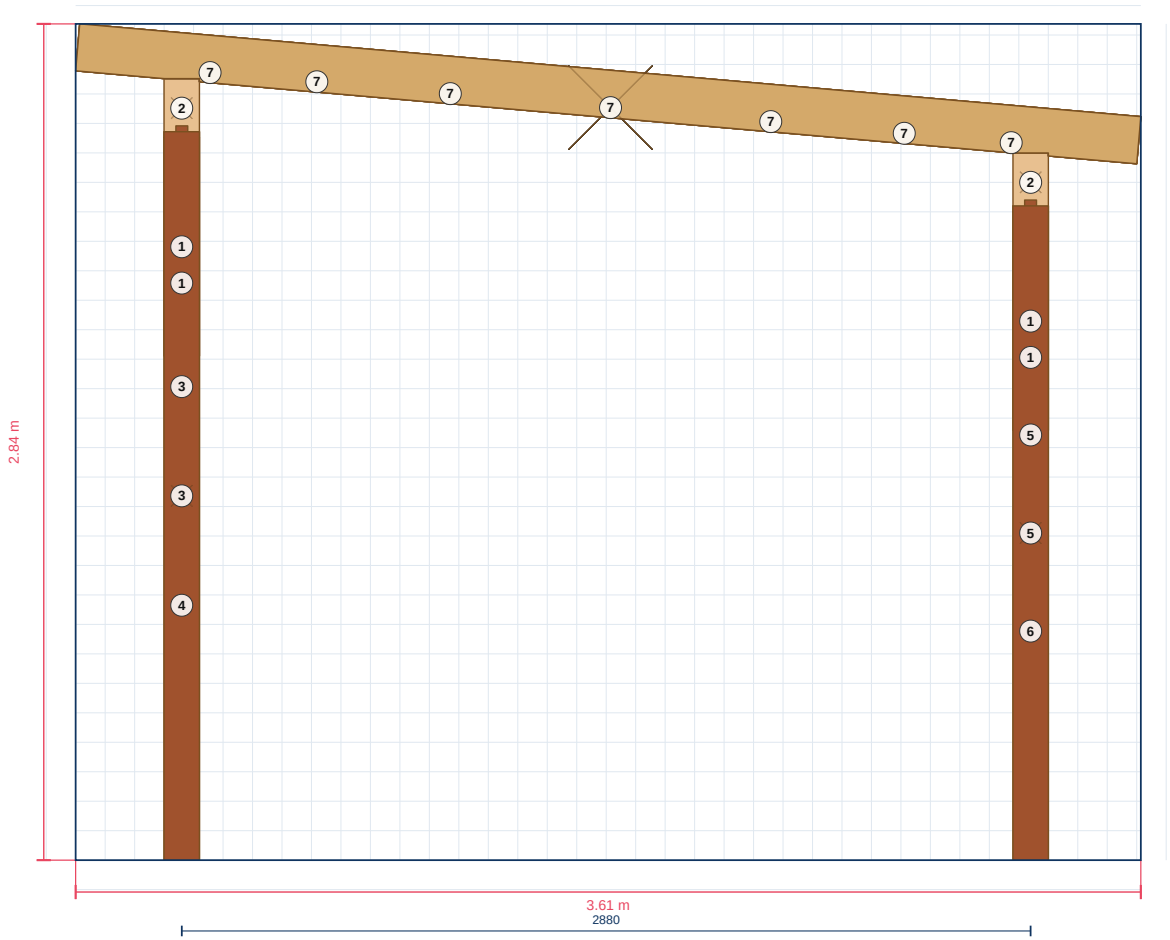


SIDE VIEW FROM THE LEFT fitted, approx. 1:26 1 m · 5.00 × 2.84 m

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1c of 12**

View fitted to the sheet, approx. 1:26 when printed at actual size (100 %, A4 landscape); the scale bar is exact. For a DIN scale (1:50, 1:25, 1:20), choose it under “Scale (print)”. Take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

Rear view

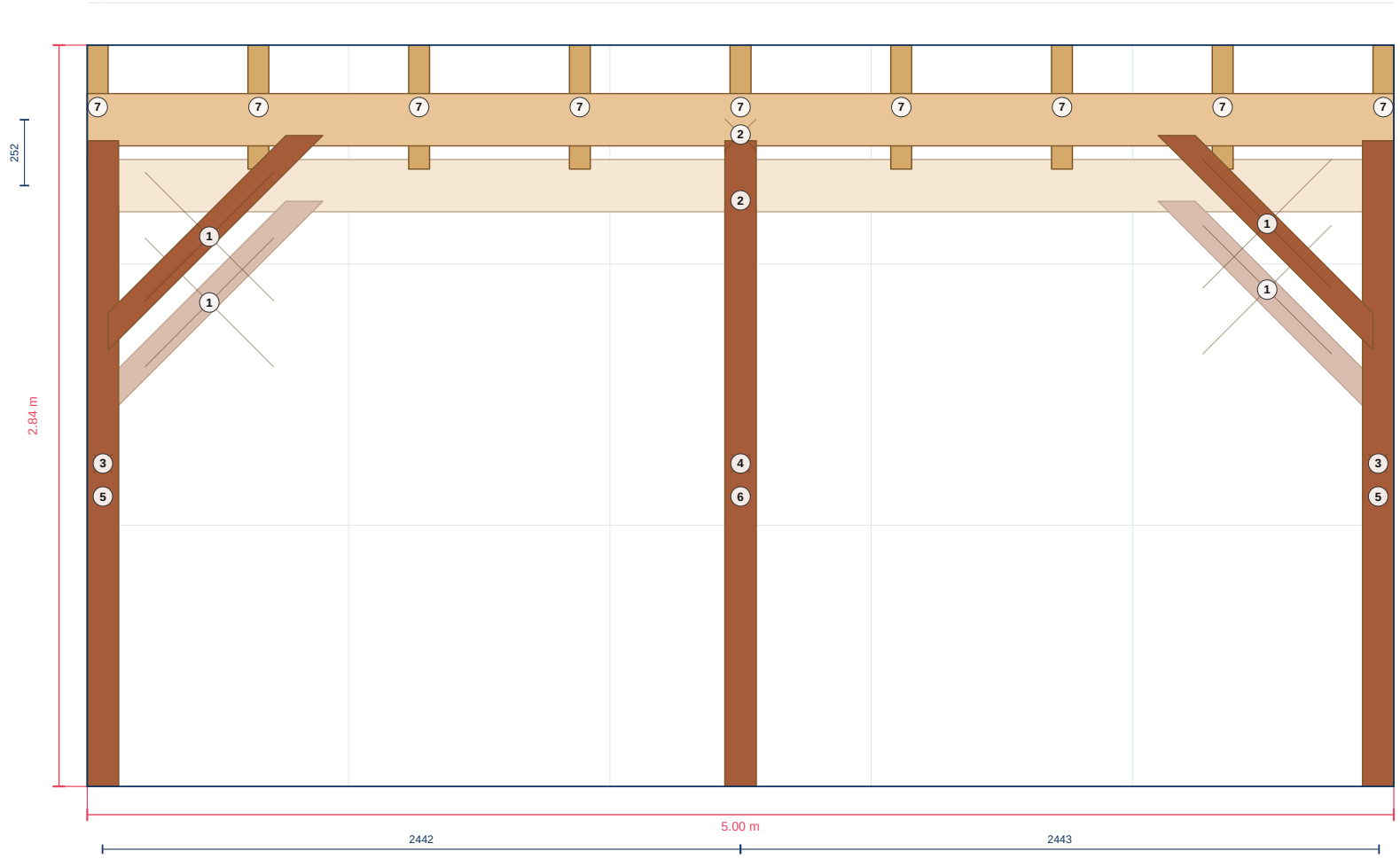


REAR VIEW fitted, approx. 1:26 1 m · 3.61 × 2.84 m

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1d of 12**

View fitted to the sheet, approx. 1:26 when printed at actual size (100 %, A4 landscape); the scale bar is exact. For a DIN scale (1:50, 1:25, 1:20), choose it under “Scale (print)”. Take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

Side view from the right



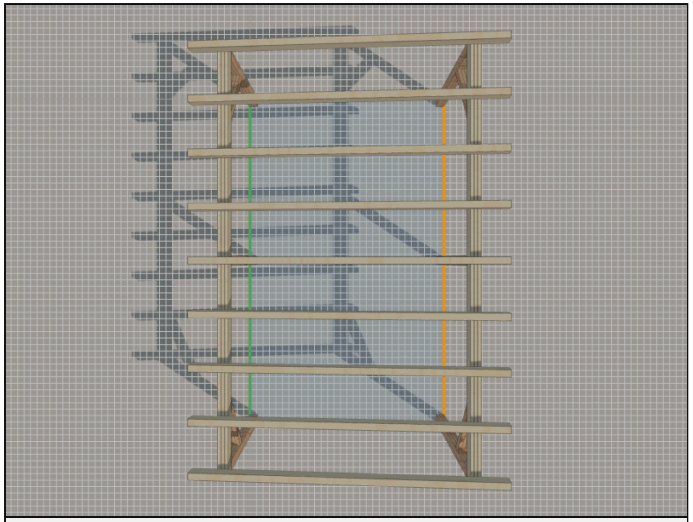
SIDE VIEW FROM THE RIGHT fitted, approx. 1:26 1 m · 5.00 × 2.84 m

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1e of 12**

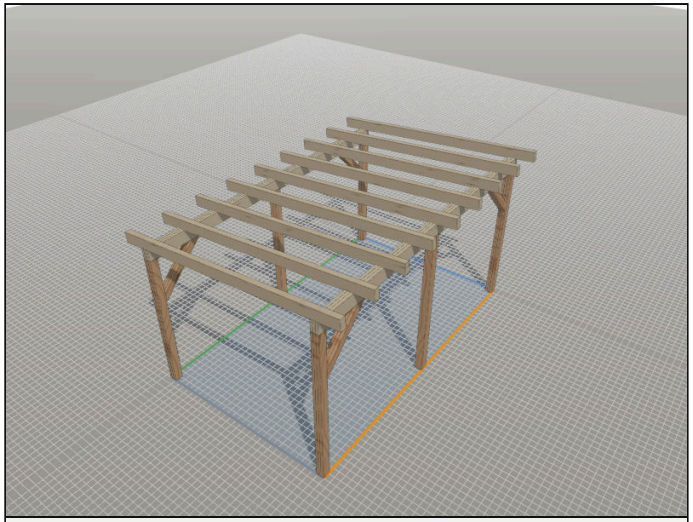
View fitted to the sheet, approx. 1:26 when printed at actual size (100 %, A4 landscape); the scale bar is exact. For a DIN scale (1:50, 1:25, 1:20), choose it under “Scale (print)”. Take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

EXAMPLE: CARPORT 3 × 5 M

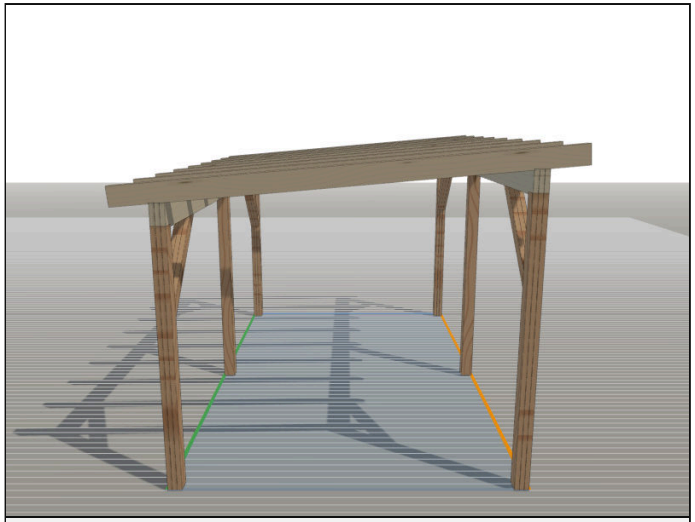
Pictorial views · all sides



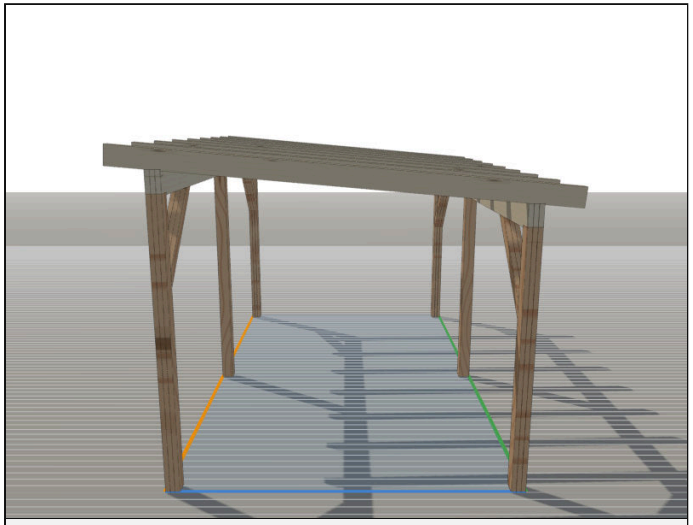
TOP VIEW not to scale



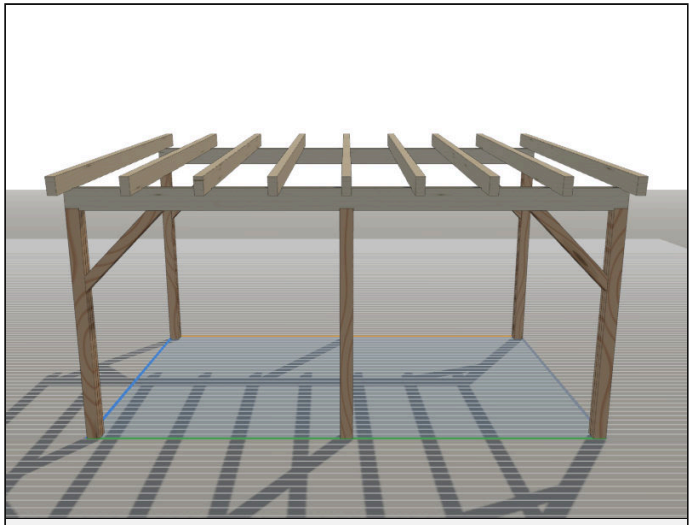
ISOMETRIC VIEW not to scale



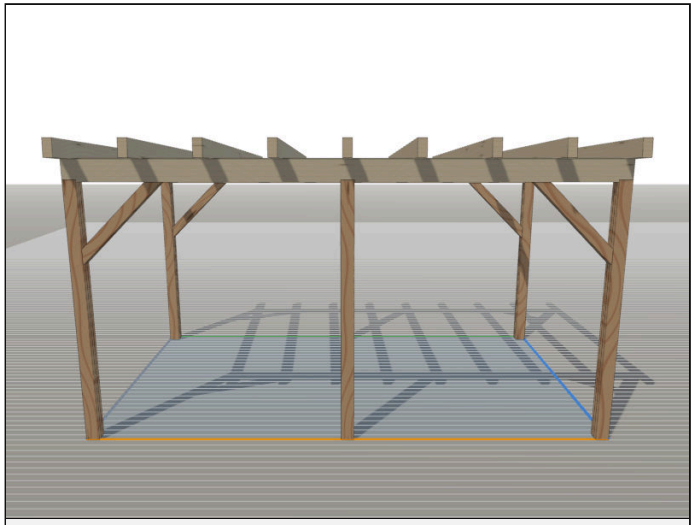
FRONT VIEW not to scale



REAR VIEW not to scale



LEFT VIEW not to scale



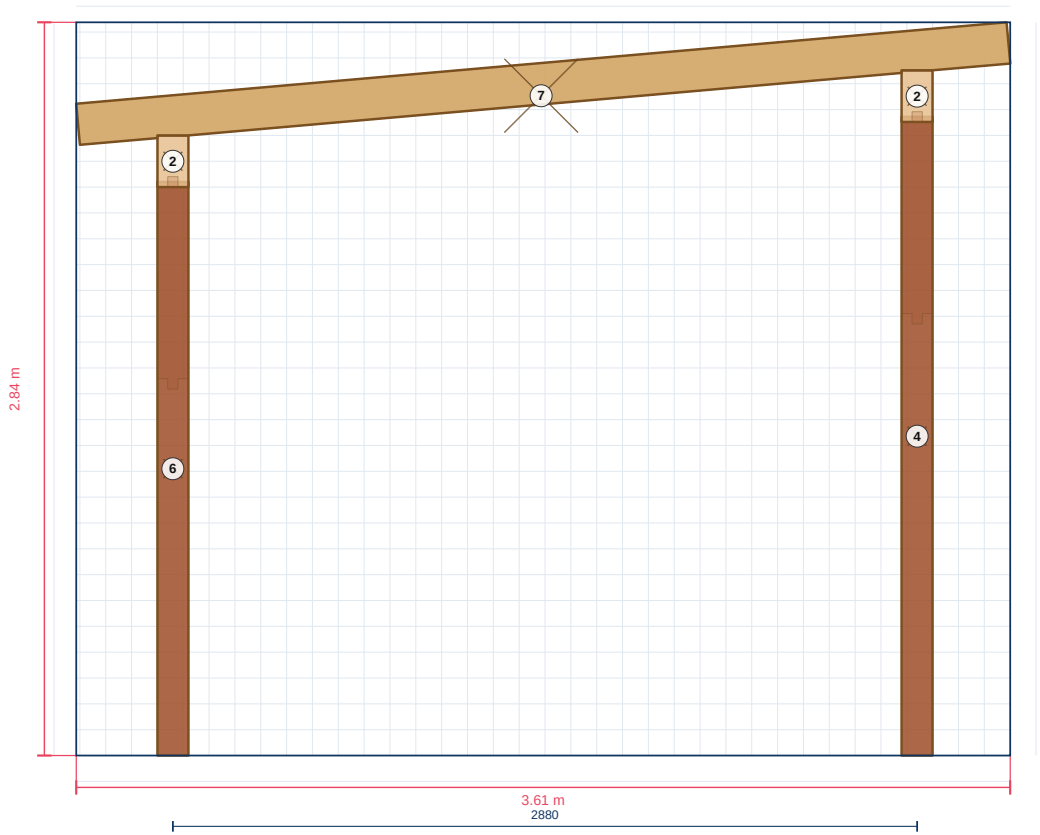
RIGHT VIEW not to scale

Pictorial views for illustration — not to scale and not for taking measurements. Scaled, dimensioned drawings are on the following sheets.

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1a of 12**

Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

Section A–A

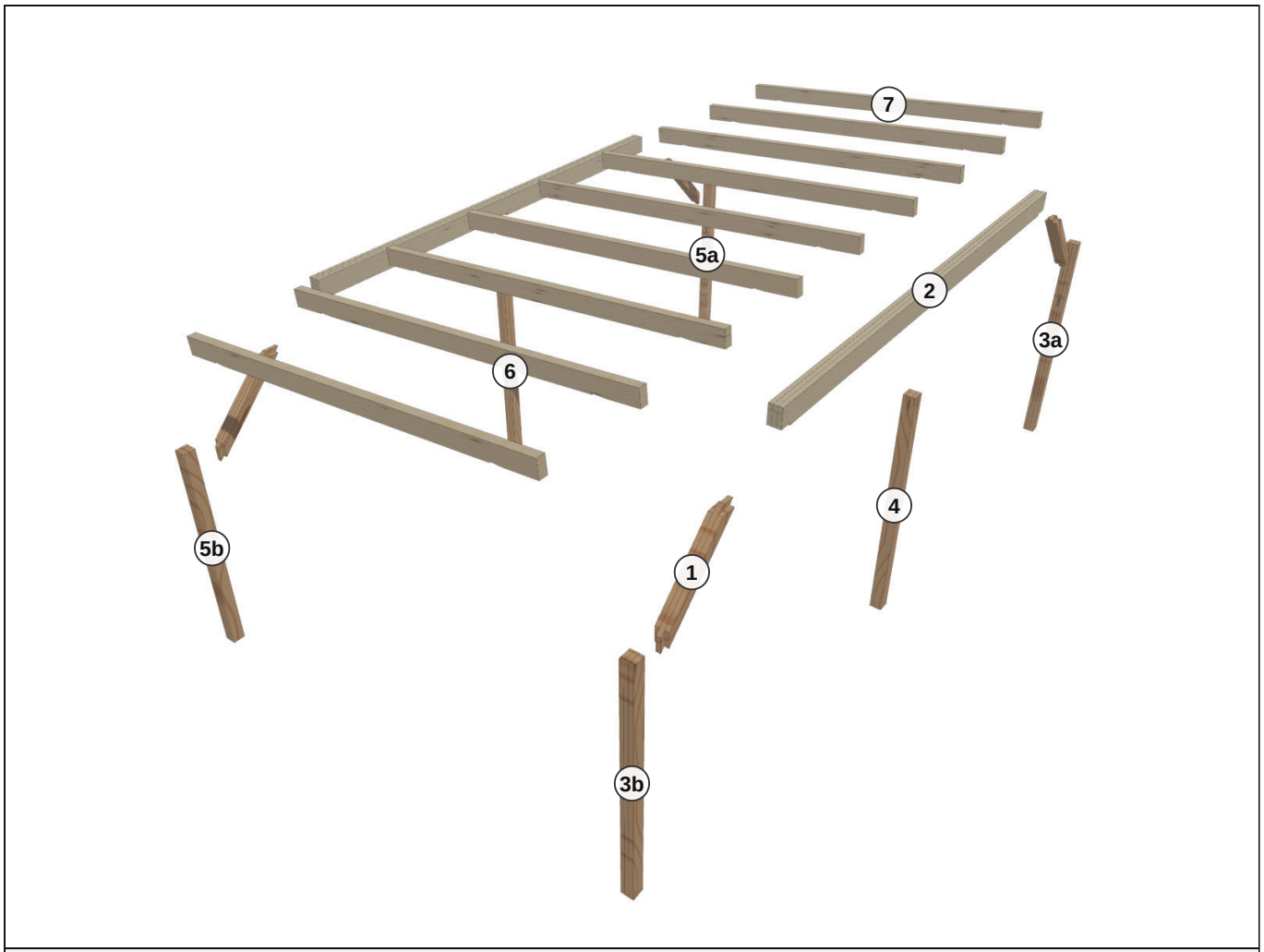


SECTION A–A fitted, approx. 1:29 1 m · Plane perpendicular to the Z axis at z = 2500 mm, viewed from the front

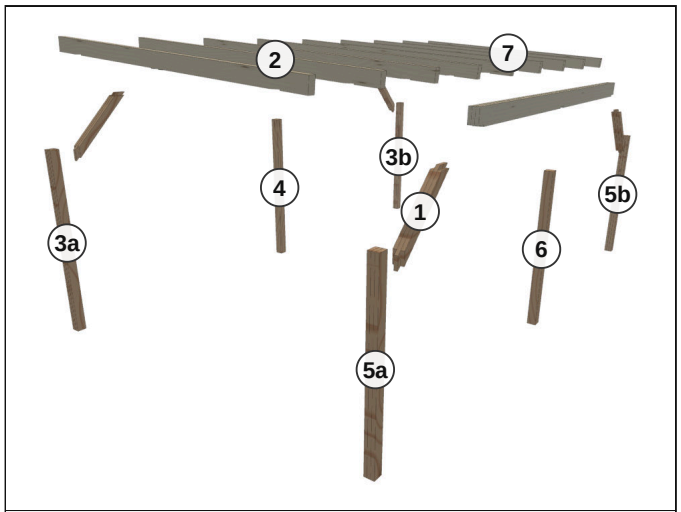
Shown in bold and hatched is the timber cut by the section plane. **Shown faint** behind it is the view — what you see when looking through the section. Parts in front of the plane are omitted. The position of the plane is marked as line A–A in the top view on sheet 1.

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**2 of 12**

Section fitted to the sheet, not to scale — take dimensions from the dimension lines and the parts list. Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.



OBLIQUE FROM THE FRONT AND ABOVE 70% pulled apart · not to scale



OPPOSITE SIDE 70 % · not to scale

The parts are pulled apart so you can see what goes where — not to scale and not for measuring. The numbers in the circles are the items of the parts list (Sheet 3). If an item is machined differently, each workpiece also carries a letter — as in the joinery plan, a separate printout (here Item 3a, Item 3b). For each number, one part is labelled in each image. Screws and fittings: Sheet “Fasteners”.

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**2a of 12**

Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

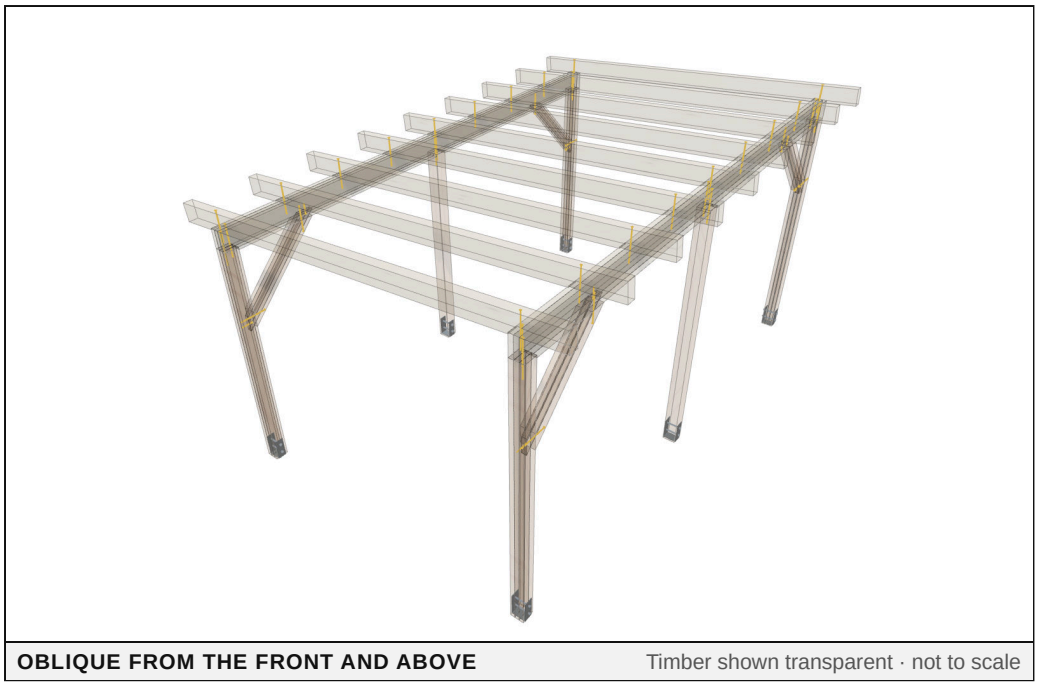
PARTS LIST — THE ITEM NUMBERS ARE SHOWN IN THE VIEWS

Item	Qty	Description	Wood type	L × W × H (mm)	Total length	Volume	Weight**
①	4	Knee brace front, Knee brace rear	Douglas fir	1162×120×100	4.648 m	0.056 m³	31 kg
②	2	Purlin (low), Purlin (high)	Glulam (GL)	5000×120×200	10.000 m	0.240 m³	116 kg
③	2	Post (high)	Douglas fir	2472×120×120	4.944 m	0.071 m³	39 kg
④	1	Post (high)	Douglas fir	2472×120×120	2.472 m	0.036 m³	20 kg
⑤	2	Post (low)	Douglas fir	2220×120×120	4.440 m	0.064 m³	35 kg
⑥	1	Post (low)	Douglas fir	2220×120×120	2.220 m	0.032 m³	18 kg
⑦	9	Rafter	Spruce	3614×80×160	32.526 m	0.416 m³	201 kg
7	**21**	**Total items / parts**				**0.915 m³**	**460 kg**

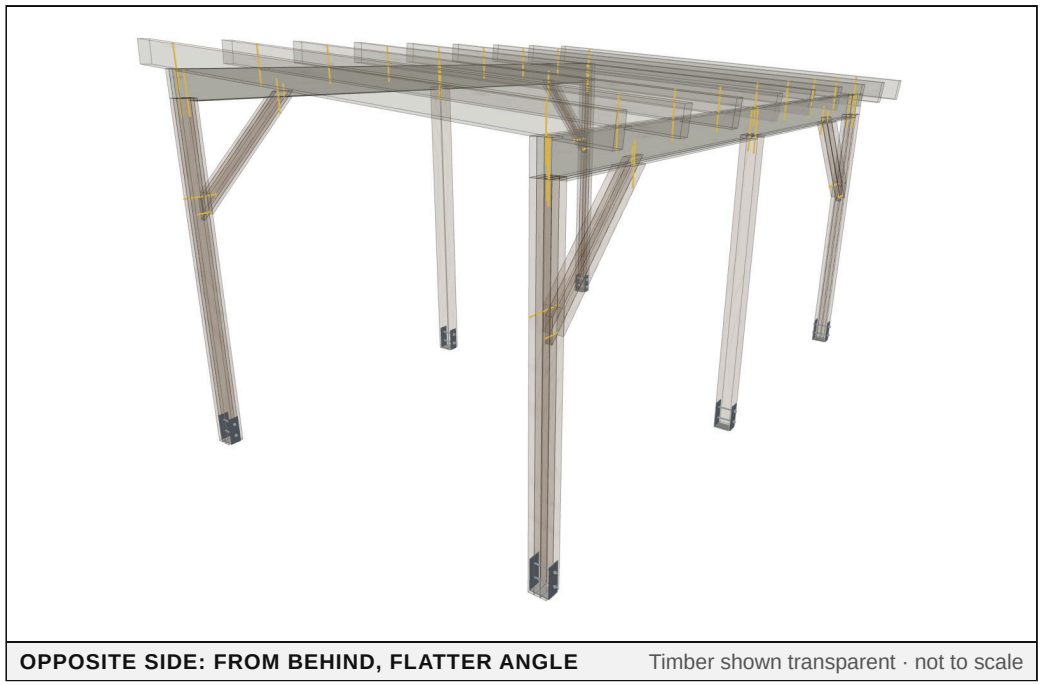
Total timber weight	dry · 15% moisture content	semi-dry · 30% moisture content	wet · 50% moisture content
approx.	**460 kg**	**520 kg**	**600 kg**

** Dry weight (15 % moisture content). Volume × density. Solid timber at its mean density (Spruce, Douglas fir, Glulam (assumed as spruce): at about 12 % moisture content, Informationsdienst Holz, holzbau handbuch R4/T2/F3, Table 8), converted to the moisture content via the water content, swelling and shrinkage neglected. Moisture classes to DIN 4074-1: dry up to 20 %, semi-dry up to 30 %, green above that — 50 % is an example value; green timber can be considerably wetter. Notches and mortises are not deducted; connectors, screws and roof covering are not included.

Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.



OBLIQUE FROM THE FRONT AND ABOVE Timber shown transparent · not to scale

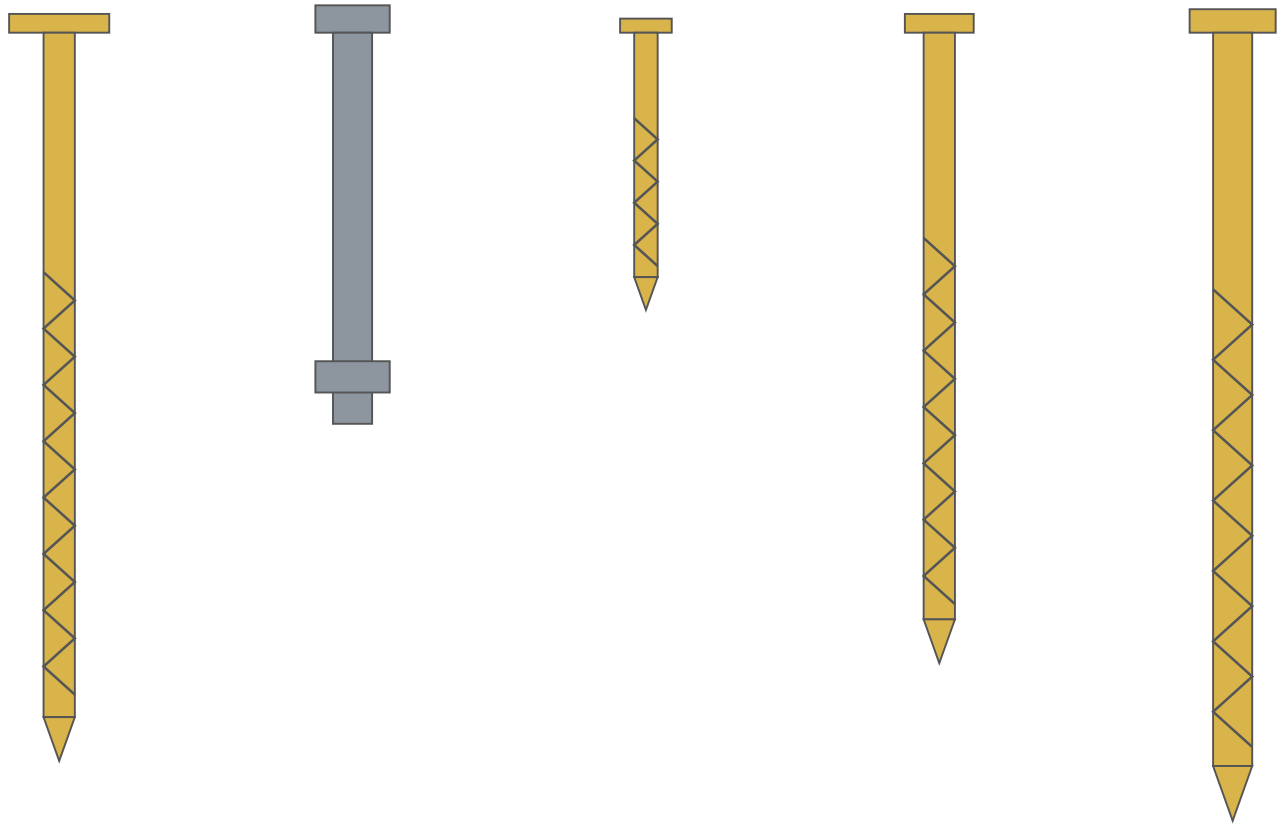


OPPOSITE SIDE: FROM BEHIND, FLATTER ANGLE Timber shown transparent · not to scale

Colour	Connectors	Qty	Sizes and types as per costing (pcs)
	Post bases	**6**	H anchor (to be set in concrete) for post 120 mm: **6** (fork 120 mm, flanges 200 mm high)
	Washer-head screws from above	**18**	Washer-head screw 8×280: **18** (joist depth + approx. 100 mm into the beam)
	Bolt with nut	**12**	Hex bolt M10×160 with nut and 2 washers: **12** (post bases 12)
	Timber construction screws	**28**	Timber construction screw 6×100: **8** (knee braces 8) · Timber construction screw 8×240: **8** (knee braces 8) · Timber construction screw 10×300: **12** (stud/sole plate/top plate 12)

Counted at the connections · Sizes from the costing — the same figures as in the “Connectors in 3D” legend (18× rafter or joist on its supporting beam · 8× knee brace or diagonal · 6× beam on stud head, stud on sole plate · 6× post on the ground). One guide quantity per connection type (post on the ground 1 post base, joist on beam 1 washer-head screw from above or 2 angle brackets, butt joint 1 angle bracket, timber on timber 2 screws, board crosswise 2 per crossing, lengthwise every 500 mm). Screw length by rule of thumb: boards and battens 2.5 times their thickness, sawn timber twice. Guide values, not a structural design: load-bearing connections are set by the structural calculation. All screws and nails at the same scale: Sheet 3b.

Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.



8×280	M10×160	6×100	8×240	10×300
18 pcs	12 pcs	8 pcs	8 pcs	12 pcs

SCREWS, BOLTS AND NAILS all to the same scale · colours and quantities as on sheet 3a

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**3b of 12**

Created with HolzBau 3D. **No structural verification:** the cross-sections come from the preliminary design; whether they are adequate is decided by a structural engineer’s calculation.

PROJECT

Description	**Example: carport 3 × 5 m**
Location (for snow and wind load zone)	**Sample town**
Roof covering / roof build-up	— not specified —
Foundation / connection to the ground	— not specified —
Special loads & remarks	— not specified —

FROM THE MODEL

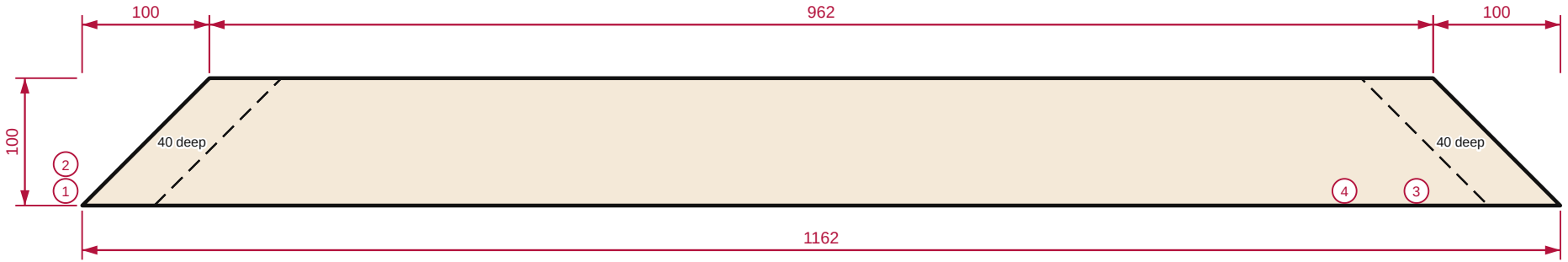
Total parts	**21**
Timber species used	**Glulam (GL), Douglas fir, Spruce**
Overall dimensions (W × D × H)	**3614 × 5000 × 2838 mm**

Dimensions, cross-sections and timber species of the individual parts are given in the parts list on the previous page.

Note: This sheet summarises what is needed for a structural assessment. It contains **no design calculation and no structural verification**. The cross-sections used in the planner are guide values from the preliminary design — which cross-sections are permissible is decided by a structural engineer’s calculation. Created with HolzBau 3D.

Item 1 Knee brace front, Knee brace rear

4 × · Douglas fir · Cross-section 120 × 100 mm · Length 1162 mm · Group Carport 1 · Bracing



Side view — length × height **M 1:5**

No.	Operation	Position from left	Dimension on part	Across the part
1	Bevel cut	0 mm	Offset 100 mm · 45.0° to the square cross-cut	through
2	Tenon	0 mm	40 mm long, square to the shoulder	40 mm thick, centred (cheeks 40 mm each)
3	Bevel cut	1062 mm	Offset 100 mm · 45.0° to the square cross-cut	through
4	Tenon	1005 mm	40 mm long, square to the shoulder	40 mm thick, centred (cheeks 40 mm each)



Position in the structure · not to scale

visible edge · hidden edge / blind hole · Dimension in mm · square cross-cut (reference for the angle) · in the location plan on the right: this item in the structure

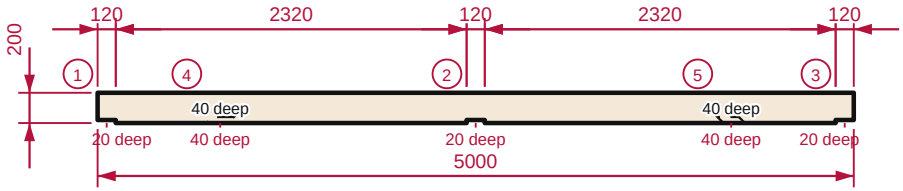
7 items · 19 parts

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**1 of 5**

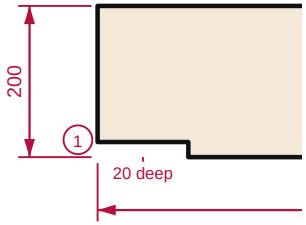
All dimensions in millimetres. Angles are measured with the **square cross-cut** as reference: 0° = straight cut, same convention as the saw tool. Created with HolzBau 3D. **Check measurements on site before cutting** — the drawing shows the model, not the as-built state.

Item 2 Purlin (low), Purlin (high)

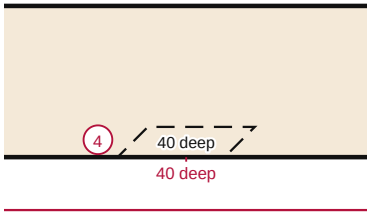
2 × · Glulam (GL) · Cross-section 120 × 200 mm · Length 5000 mm · Group Carport 1 · Purlins



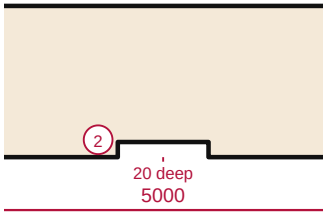
Side view — length × height **M 1:50**



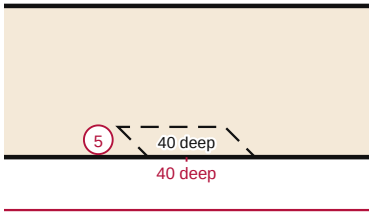
Detail at start · Side view **M 1:10**



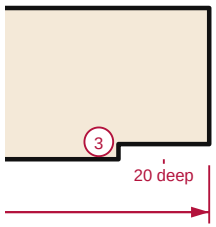
Detail 600–1021 mm from left · Side view **M 1:10**



Detail 2320–2680 mm from left · Side view **M 1:10**

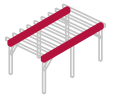


Detail 3979–4400 mm from left · Side view **M 1:10**



Detail at end · Side view **M 1:10**

No.	Operation	Position from left	Dimension on part	Across the part
1	Bearing / Birdsmouth	0 mm	120 long × 20 deep	through
2	Bearing / Birdsmouth	2440 mm	120 long × 20 deep	through
3	Bearing / Birdsmouth	4880 mm	120 long × 20 deep	through
4	Mortise	720 mm	181 long × 40 deep	40 mm deep
5	Mortise	4099 mm	181 long × 40 deep	40 mm deep



Position in the structure · not to scale

visible edge · hidden edge / blind hole · Dimension in mm · square cross-cut (reference for the angle) · in the location plan on the right: this item in the structure

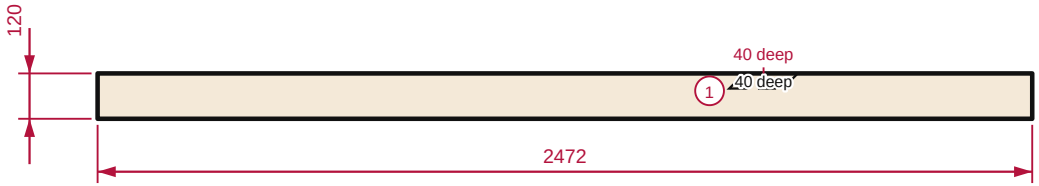
7 items · 19 parts

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**2 of 5**

All dimensions in millimetres. Angles are measured with the **square cross-cut** as reference: 0° = straight cut, same convention as the saw tool. Created with HolzBau 3D. **Check measurements on site before cutting** — the drawing shows the model, not the as-built state.

Item 3a Post (high)

1 × · Douglas fir · Cross-section 120 × 120 mm · Length 2472 mm · Group Carport 1 · Posts



Side view — length × height **M 1:20**

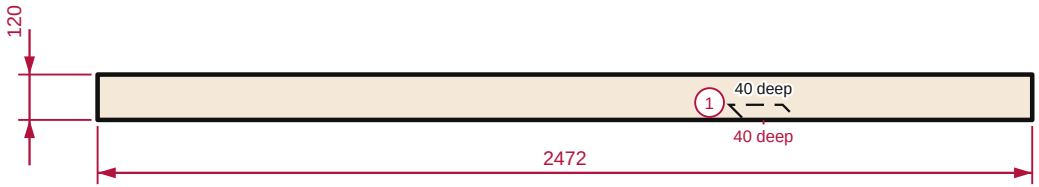
No.	Operation	Position from left	Dimension on part	Across the part
1	Mortise	1671 mm	181 long × 40 deep	40 mm deep



Position in the structure · not to scale

Item 3b Post (high)

1 × · Douglas fir · Cross-section 120 × 120 mm · Length 2472 mm · Group Carport 1 · Posts



Side view — length × height **M 1:20**

No.	Operation	Position from left	Dimension on part	Across the part
1	Mortise	1671 mm	181 long × 40 deep	40 mm deep



Position in the structure · not to scale

visible edge · hidden edge / blind hole · Dimension in mm · square cross-cut (reference for the angle) · in the location plan on the right: this item in the structure

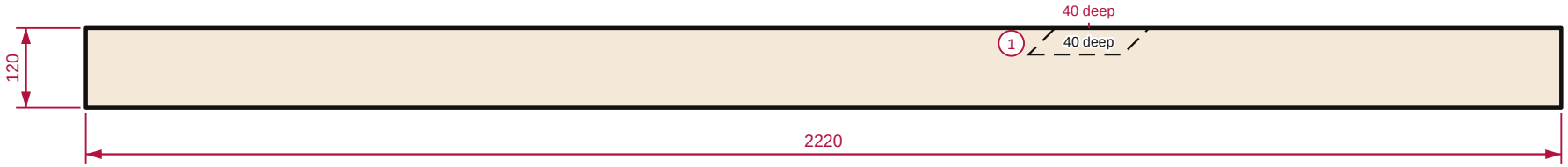
7 items · 19 parts

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**3 of 5**

All dimensions in millimetres. Angles are measured with the **square cross-cut** as reference: 0° = straight cut, same convention as the saw tool. Created with HolzBau 3D. **Check measurements on site before cutting** — the drawing shows the model, not the as-built state.

Item 5a Post (low)

1 × · Douglas fir · Cross-section 120 × 120 mm · Length 2220 mm · Group Carport 1 · Posts



Side view — length × height **M 1:10**

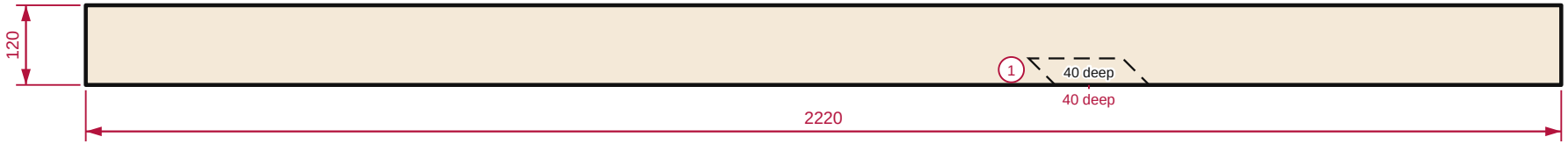
No.	Operation	Position from left	Dimension on part	Across the part
1	Mortise	1419 mm	181 long × 40 deep	40 mm deep



Position in the structure · not to scale

Item 5b Post (low)

1 × · Douglas fir · Cross-section 120 × 120 mm · Length 2220 mm · Group Carport 1 · Posts



Side view — length × height **M 1:10**

No.	Operation	Position from left	Dimension on part	Across the part
1	Mortise	1419 mm	181 long × 40 deep	40 mm deep



Position in the structure · not to scale

visible edge · hidden edge / blind hole · Dimension in mm · square cross-cut (reference for the angle) · in the location plan on the right: this item in the structure

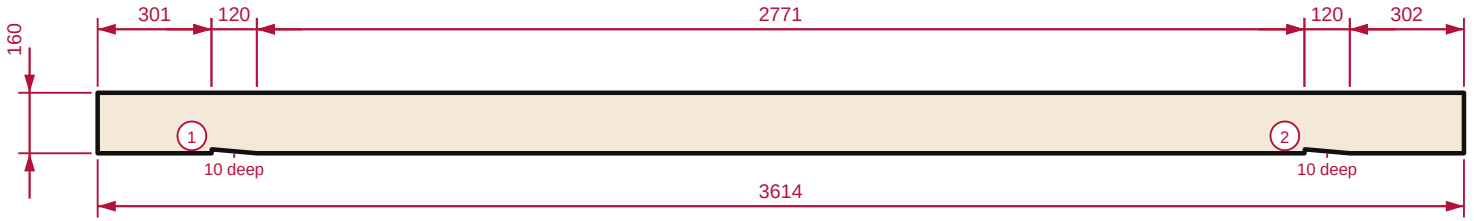
7 items · 19 parts

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**4 of 5**

All dimensions in millimetres. Angles are measured with the **square cross-cut** as reference: 0° = straight cut, same convention as the saw tool. Created with HolzBau 3D. **Check measurements on site before cutting** — the drawing shows the model, not the as-built state.

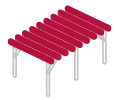
Item 7 Rafter

9 × · Spruce · Cross-section 80 × 160 mm · Length 3614 mm · Group Carport 1 · Rafters



Side view — length × height **M 1:20**

No.	Operation	Position from left	Dimension on part	Across the part
1	Bearing / Birdsmouth	301 mm	120 long × 10 deep	through
2	Bearing / Birdsmouth	3192 mm	120 long × 10 deep	through



Position in the structure · not to scale

visible edge · hidden edge / blind hole · Dimension in mm · square cross-cut (reference for the angle) · in the location plan on the right: this item in the structure

7 items · 19 parts

PROJECT	LOCATION	DATE	SHEET
Example: carport 3 × 5 m	**Sample town**	**8/11/2026**	**5 of 5**

All dimensions in millimetres. Angles are measured with the **square cross-cut** as reference: 0° = straight cut, same convention as the saw tool. Created with HolzBau 3D. **Check measurements on site before cutting** — the drawing shows the model, not the as-built state.