



ASSEMBLY INSTRUCTIONS - 5005

AMBOOO Outdoor System Fence „Rhombus“



1. System Description & Important Notes

The AMBOOO Rhombus system fence consists of several components that, when assembled, form a visually appealing privacy screen that shields against view while still letting light through. The system can be extended as needed and is variable in element height. All directions can be achieved at 90° angles; shortening the profiles as well as angled configurations are also possible. Please read these assembly instructions carefully before starting installation.

1. Posts
2. Post brackets (surface-mounted) or post anchors (set in concrete)
3. Bamboo rhombus profiles
4. Clips „L“ / „R“ (spacers)

2. Foundation Preparation & Post Spacing

Precise measuring is the basis for a straight, stable structure. First, the concrete foundations must be poured or prepared for setting the post shoe in concrete. Observe the required concrete curing time before proceeding to the next assembly step.

- **Post spacing (centre distance):** To determine the exact post spacing, use the bamboo strips supplied as a spacing aid.
- **Expansion gap:** A gap of 3-5 mm must always be allowed on both sides between the board end and the inner face of the post, so that the boards can expand along their length.

- **Custom shortening:** If the bamboo profiles are shortened, the foundation spacing must be adjusted accordingly and the expansion gap recalculated.

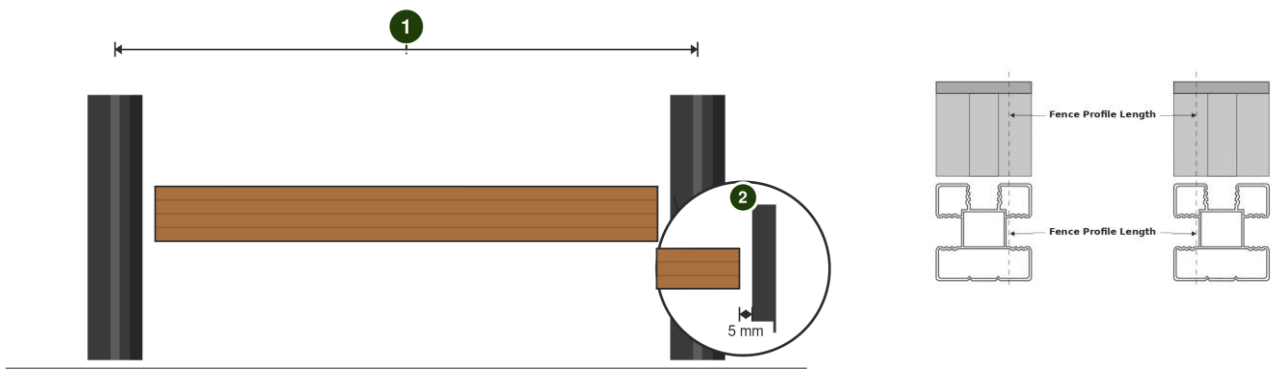
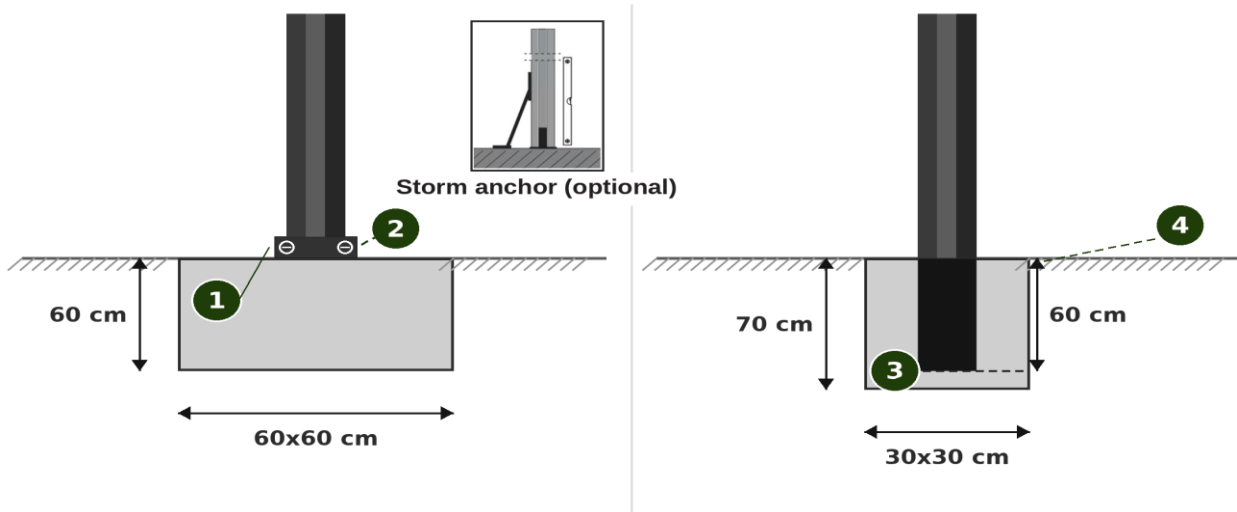


Figure 2: Foundation Preparation & Post Spacing

1. Post spacing (centre distance)
2. Expansion gap: 5 mm clearance between board end and inner post face

3. Post Installation Methods

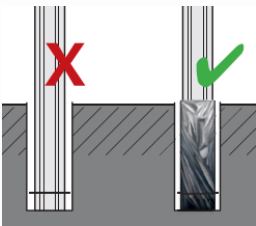
Two professional installation methods with 2 different post lengths are available for anchoring the posts. With all installation methods, the concrete foundation must be embedded in the ground to a frost-free depth of at least 70 cm.



cm.

Figure 3: Comparison of Installation Methods

1. Option A – Existing concrete surface
2. Post shoe: bolted to the post and fixed to the surface
3. Option B – New foundation, 30x30 cm
4. Post is set directly into concrete to a depth of 60 cm

Option A: Surface-mounted	Option B: Set in concrete (direct)
Recommended for existing concrete surfaces.	The aluminium post is set directly into the concrete – without an additional post shoe.
Foundation dimensions: Min. 60 x 60 cm wide Min. 60 cm deep	Foundation dimensions: Min. 30 x 30 cm wide Min. 70 cm deep
Installation: Position the complete unit centrally on the foundation and secure it with approved concrete screws (observe edge distances). Depending on the wind region and local conditions, additionally secure with a storm anchor, as shown in the image.	Installation: The post is set directly into the concrete foundation to a depth of at least 60 cm. Pay close attention to vertical alignment, straightness, and correct spacing to the next post. The embedded part of the post must be protected from direct contact with the concrete using foil to prevent a reaction.
	

STRUCTURAL ALIGNMENT NOTICE

IMPORTANT REGARDING INSTALLATION ORIENTATION (Without post shoe):
Pay meticulous attention to the orientation of the post profile! The closed side of the post must be precisely aligned with the side of the opening in the base/concrete foundation to ensure structural load-bearing capacity.

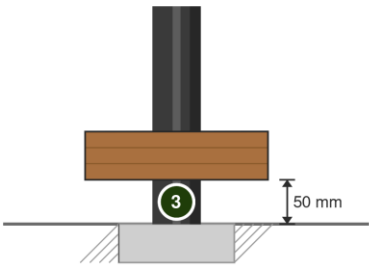
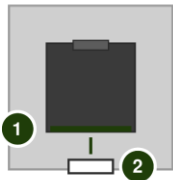


Figure 4: Orientation & Minimum Clearance

- 1. Closed side of the post
- 2. Open side of the foundation / base
- 3. Minimum clearance of 50 mm to the ground

4. Installing the Bamboo Profiles

Depending on the orientation of the bamboo rhombus profiles, the amount of light passing through the privacy screen can be controlled. Once the foundations have cured and the posts are secured, installation of the bamboo profiles can begin.

Step 1: Insert the Receiving Profile

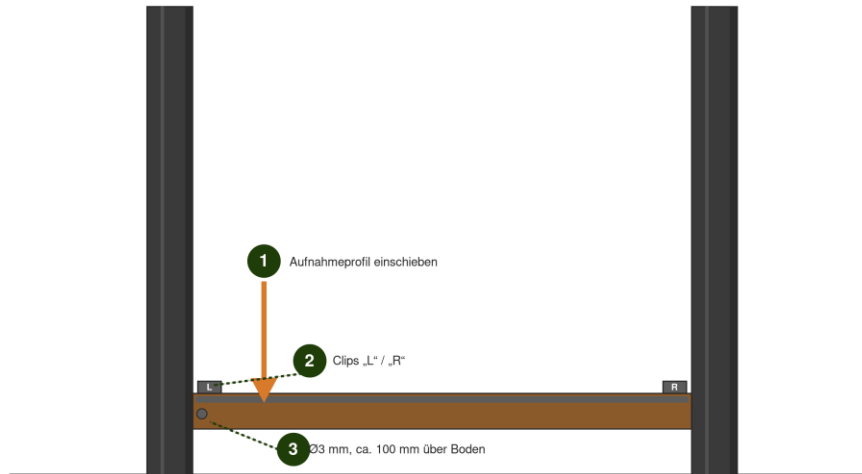


Figure 5: Step 1 – Inserting the Receiving Profile

1. Slide the profile into the post
2. Insert clips „L“ / „R“ according to the visible side
3. Fixing screw Ø 3 mm, approx. 100 mm above the ground

Step 2: Insert the Profiles

Place the first slat onto the spacer. Then slide a polymer spacer (6a) into the groove profile on the inside of both posts. Repeat these steps until you reach the desired overall height. Slide the end clips over the last (pre-drilled) rhombus slat and secure them with the self-tapping screws. Finally, replace the post caps.

Note: The posts can also be used as corner posts. Unused grooves can be covered with the cover profiles supplied.

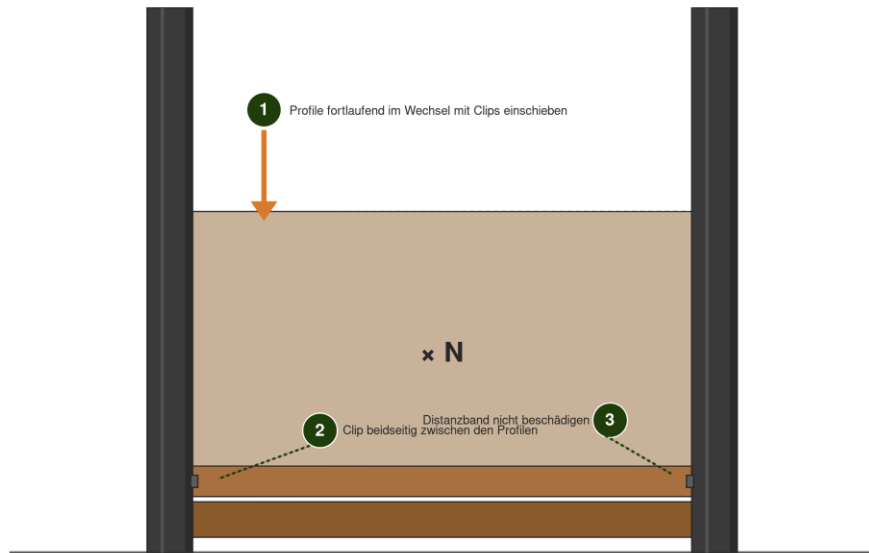


Figure 6: Step 2 – Inserting the Profiles

1. Insert the profiles continuously, alternating with clips
2. Clip on both sides between the profiles

Step 3: Secure the Last Profile

Once the last board has been inserted, fit the end clip on both sides and secure it with a self-drilling screw (pre-drill $\varnothing$ 3 mm) — this secures the bamboo boards. In addition, two bamboo boards must be screwed to the receiving profile: the last profile and one from the middle. Here too, pre-drill $\varnothing$ 3 mm.

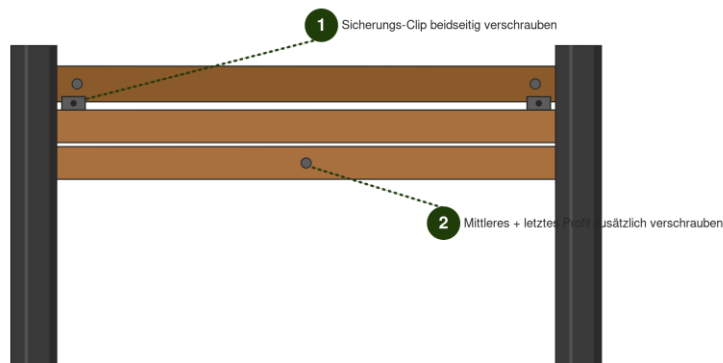


Figure 7: Step 3 – Securing the Last Profile

1. Screw the securing clip on both sides
2. Additionally screw the middle and last profile to the receiving profile

5. Care and Safety Instructions

PRODUCT NOTES & MATERIAL CARE

Material behaviour: Small black mould spots, water stains, lime deposits, mould spores in the air and similar marks are natural reactions to external weather influences and are not grounds for complaint. They can be minimised through regular cleaning and care.

Mandatory pre-treatment: The care instructions for bamboo must be strictly observed! Before installation, all boards must be fully treated with AMBOOO care oil.

Cut-edge protection: When shortening profiles or slats, the fresh cut edges must be immediately treated with AMBOOO care oil and additionally sealed with AMBOOO end-grain wax.

Also observe local building regulations as well as the general rules of technology. The privacy screen system is not designed as fall protection and is not approved for this purpose under building law. Drill bits, masonry drill bits and other concrete fasteners are not included in the scope of delivery.

6. Technical Support & Manufacturer Contact

If you are not fully familiar with the use of this product or its intended purpose, please feel free to contact our technical support team directly before installation. We are happy to assist you.

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