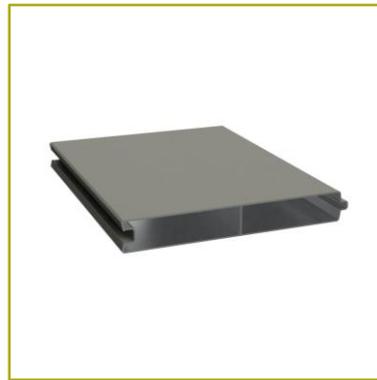


DuoFuse Slim Line



Horizontal installation

Garden fence with aluminum posts

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Before You Start Installation

We recommend carefully reading the installation instructions before beginning. The latest version can always be found on the website (<https://www.duofuse.com>). Questions can be sent to info@duofuse.com. Plastivan disclaims all responsibility if these instructions are not followed.

Storage

Stack Duofuse® products flat and protect them from rain, sunlight, or other external factors.

Placement

Do not install the garden screen at temperatures below 5°C. Allow the profiles to acclimate for at least 24 hours before processing. Remove any packaging if present.

Safety

The composite wood boards do not provide a load-bearing structure. Duofuse garden screens must not be used as railings or as boundaries for terraces more than 200 mm above ground level.

Personal Protective Equipment (PPE)

Ensure you wear appropriate personal protective equipment, such as safety glasses, hearing protection, gloves, safety shoes, and others as needed.

Processing Duofuse Products

Standard tools can be used for all operations on Duofuse® products. Use a drill at low speed with high torque. Collect all residual material, sawdust, and waste carefully and dispose of it properly according to applicable environmental regulations. Avoid spilling or spreading waste during processing. If necessary, use protective barriers to prevent contamination of soil and water.

Appearance of Duofuse® Products

After exposure to rain, drip marks or rings may appear on the composite wood boards. This is a temporary process caused by the release of lignin from the wood. Rinsing with a garden hose will temporarily remove these marks. Over time, this process stops and the marks disappear completely. Colors and brushing may vary between production batches and are not contractually binding. It is recommended not to mix boards from different production batches. The production date can be found on the top of each board.

Damage

In case of any damage, contact should be made with the distributor/installer responsible for supplying/installing the garden fence.

Expansion

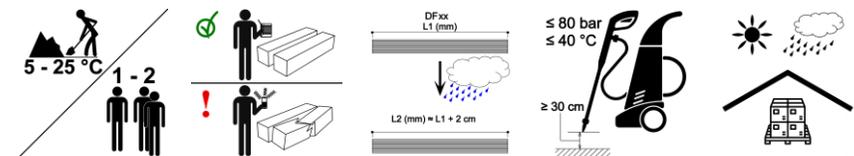
Composite wood is sensitive to expansion when exposed to weather conditions such as temperature and moisture fluctuations. For a board of 2 meters in length, total expansion can reach up to 20 mm. During installation, allow for this natural expansion to prevent stress or warping.

Maintenance

For regular maintenance, a brush or pressure washer (max. 80 bar) can be used, keeping a minimum distance of 30 cm. Grease or oil stains can be removed with a household degreaser. Stubborn dirt, such as organic stains, algae, or moss, should be treated with a diluted bleach solution (25% bleach of 10° with 75% water). Solvents must NOT be used. Any stains should be removed immediately to prevent them from penetrating or drying on the material. For more maintenance information, please visit the Duofuse website:

https://www.duofuse.com/be/Product_informatie/Onderhoud/.

All illustrations use the DF7 board. However, this does not mean that the installation method applies exclusively to this board. Please read the instructions carefully.



Summary of basic rules – Duofuse Slim Line – Horizontal installation

Length of posts

Calculate L1 (Length of the post above the ground):

Minimum expansion provided with 50 mm (DF1 & DF7) or 30 mm (DF5 & DF6).

$L1 = \text{expansion} + 35 \text{ mm (top profile)} + (\text{number of boards} \times \text{height}) + 35 \text{ mm (bottom profile)}$

Determining L2 (Length of the post in the ground):

$L1 > 1500 \text{ mm} \rightarrow L2 = 800 \text{ mm}$

$L1 1200\text{--}1500 \text{ mm} \rightarrow L2 = 700 \text{ mm}$

$L1 \leq 1200 \text{ mm} \rightarrow L2 = 600 \text{ mm}$

Distance between the posts

Distance between the posts (A) = board length – 48 mm

Centre to centre (CTC) = board length + 38 mm

For a board of 1800 mm:

A = 1752 mm

CTC = 1838 mm

For a board of 2000 mm:

A = 1952 mm

CTC = 2038 mm

Digging holes

Dimensions: 400 x 400 mm, depth = L2 + tile.

Place the first and last post, stretch a cord for alignment.

Fill 2/3 with (quick) concrete, max. 100 mm below the edge.

Wait 24 hours.

General rules before installation:

Always read the latest version of the instructions (available at www.duofuse.com).

Storage: Stack products flat and protected from rain, sun, and external factors.

Temperature: Do not install below 5 °C. Acclimatise profiles for 24 hours.

Safety: Boards are non-load-bearing; do not use as a railing or on terraces > 200 mm above ground.

Personal protective equipment: Wear safety glasses, gloves, hearing protection, and safety shoes.

Handling: Use standard tools, a drill with low speed and high torque. Avoid spreading leftover material.

Expansion: Wood-composite tongue-and-groove boards expand (up to 10 mm per metre).

Bottom profile

Mandatory for DF1, DF6, and DF7.

Mount at the correct height, check for levelness.

Installing boards

Cut to size if necessary.

Place one by one, markings in the same direction.

Finishing Top profile

Place in grooves at the top.

Cover Cap

Place on post (use rubber hammer if necessary).

[Optional steps]

Post against wall

Min. 3 screws (Ø5 – 6 mm / L: 120 mm).

Creating a corner

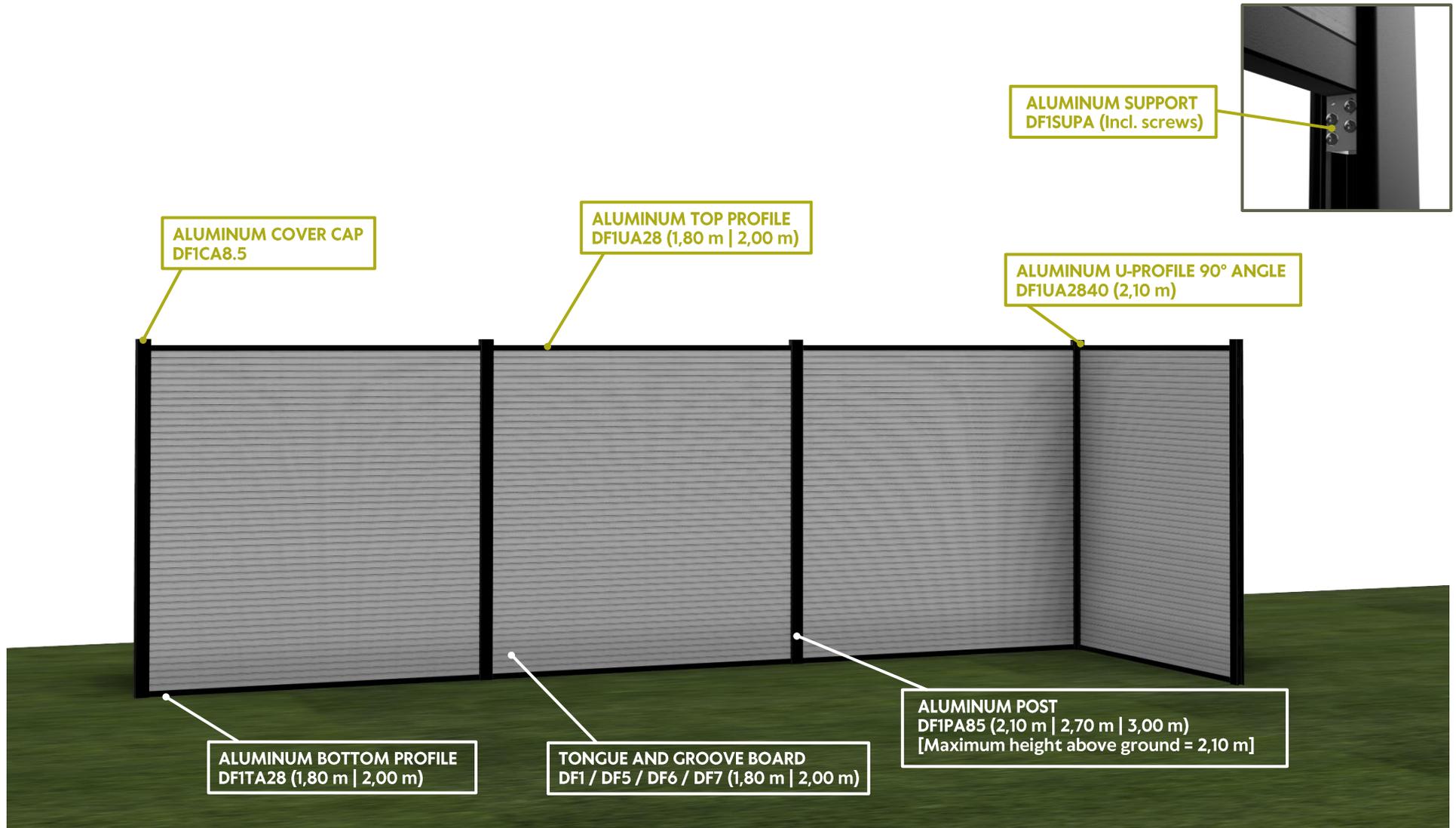
Variable → 2 standard posts + alignment with cord.

90° → U-profile DF1UA2840 + self-drilling screws (Ø4 – 4.5 mm / L: 16 mm)

Finishing end post

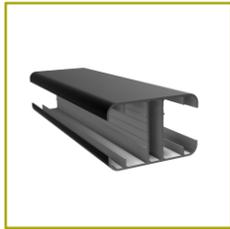
Slide in profile + screw in place (Ø4 – 4.5 mm / L: 40 mm)

Do this before installing boards of the last garden panel.



Required components

Standard installation



DF1PA85
Aluminum post



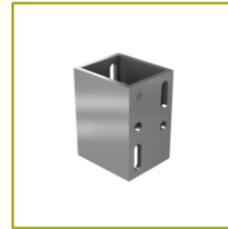
DF1CA8.5
Aluminum cover cap



DF1UA28
Aluminum top profile

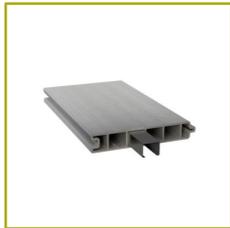


DF1TA28
Aluminum bottom profile

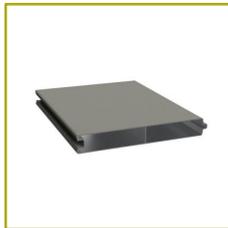


DF1SUPA
Aluminum support

Available boards



DF1B150
Tongue and groove board in WPC



DF5BA200
Tongue and groove board in aluminum



DF6BP250
Tongue and groove board in PVC



DF7B200
Tongue and groove board in WPC

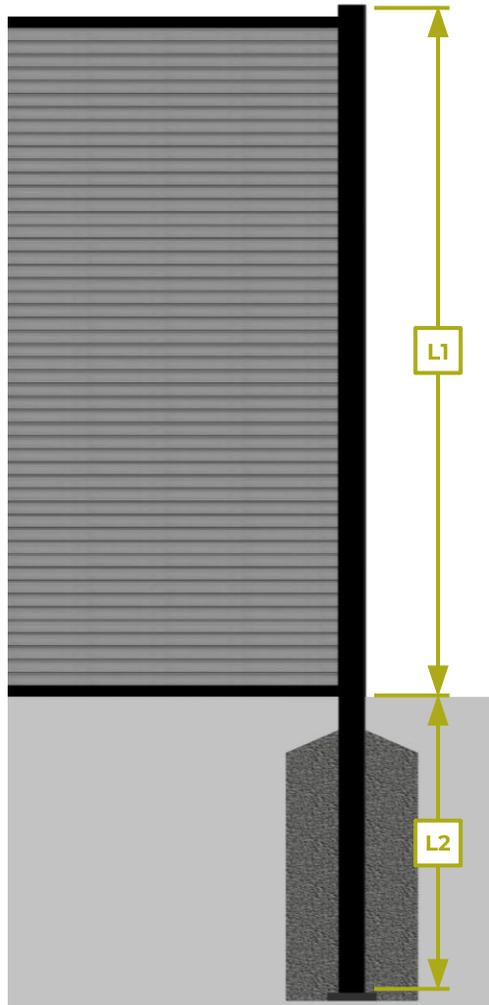
Optional



DFRT10X6
Cellular rubber band



DF1UA2840
Aluminum U-profile 90° angle



Board	Expansion (A)
DFIB150	50 mm
DF5BA200	30 mm
DF6BP250	30 mm
DF7B200	50 mm

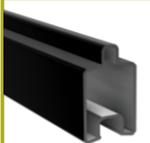
+

	Top profile (1x) DF1UA28 Height: 35 mm
1 x 35 mm	

+

Board	Height	# boards
DFIB150	150 mm	X Height
DF5BA200	200 mm	
DF6BP250	250 mm	
DF7B200	200 mm	

+

	Bottom profile (1x) DF1TA28 Height: 35 mm
1 x 35 mm	

(L1) Length of the post above ground level

$$\begin{aligned}
 &= \\
 &+ \text{Expansion (A)} \\
 &+ 35 \text{ mm} \\
 &+ (\# \text{ boards} \times \text{height}) \\
 &+ 35 \text{ mm}
 \end{aligned}$$

(L2) Length of the post below ground level

L2 is equal to 800 mm if L1 is greater than 1500 mm.

L2 is equal to 700 mm if L1 is greater than 1200 mm and L1 is less than 1500 mm.

L2 is equal to 600 mm if L1 is less than or equal to 1200 mm.

If the boards can rest directly on a concrete slab or a solid foundation, the bottom profile is not required, and the 35 mm of this profile should not be included in the calculation. However, we do recommend using the bottom profile as standard. When using a concrete slab, please ensure that the height of the part that protrudes above the ground surface is included in the calculation for the post length above ground.

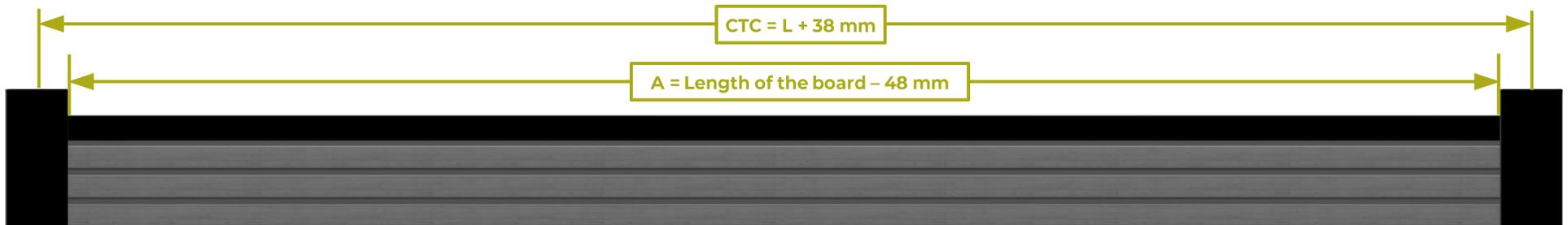
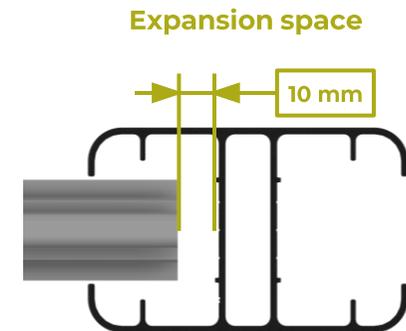
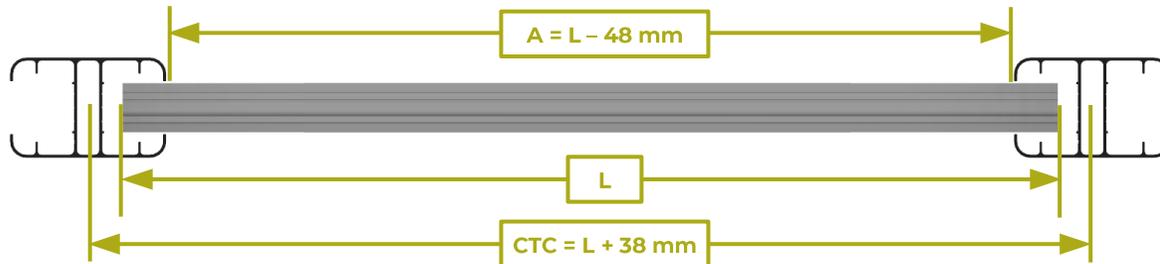
Distance between the posts

When installing the posts, it's important to space them correctly so the boards have sufficient room to expand. Below is an example of a standard installation for a 2000 mm board.

Length of the board (L) = 2000 mm

Distance between posts (A)
= Length of the board (L) - 48 mm
= 2000 mm - 48 mm
= 1952 mm

Post center -to -center distance (CTC)
= Length of the board (L) + 38 mm
= 2000 mm + 38 mm
= 2038 mm



Top and bottom profile

The length of the top and bottom profiles will depend on the length of the board.
These are available in standard lengths of 1800 mm and 2000 mm.



DF1UA28
Aluminum top
profile

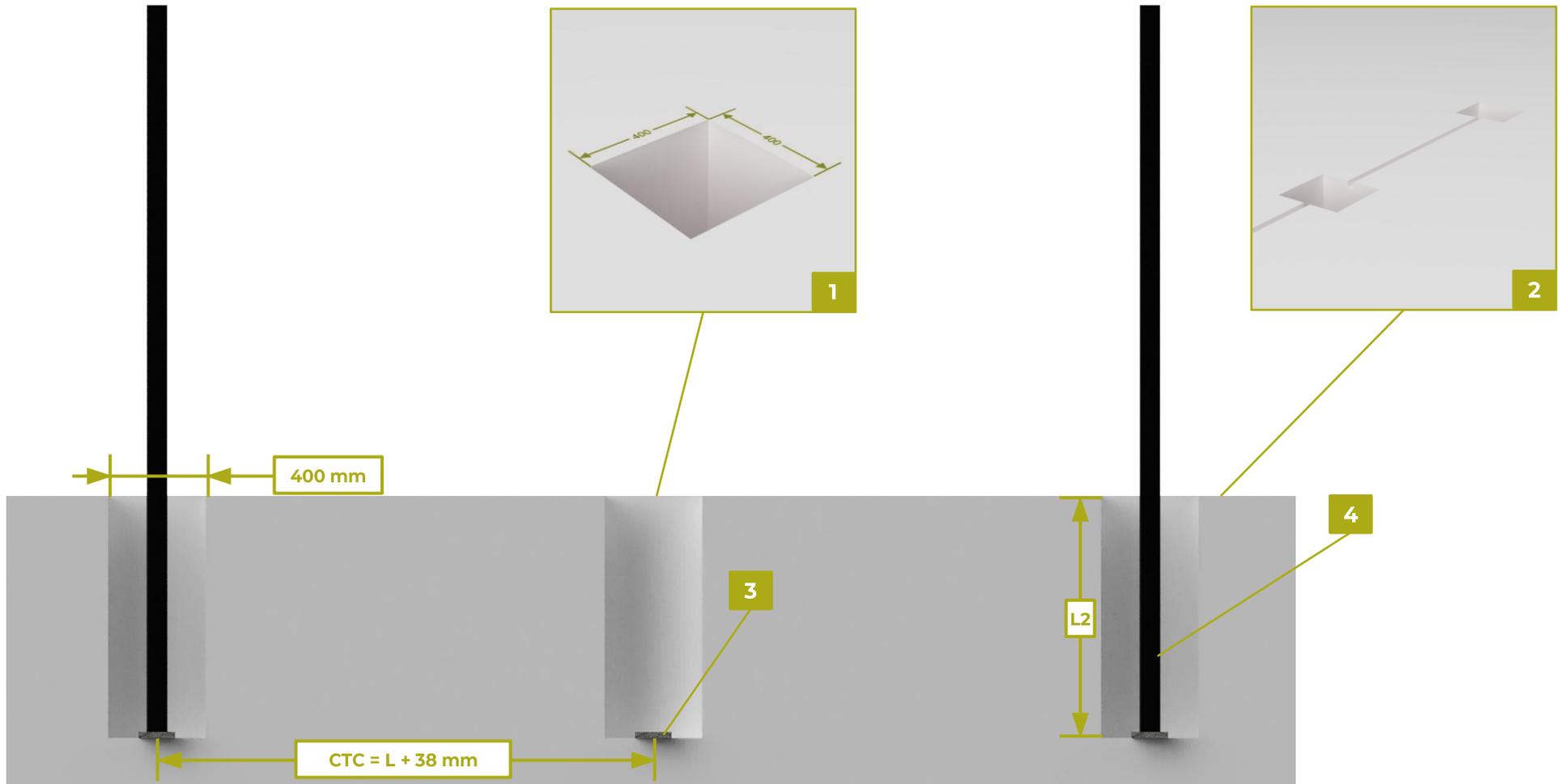


DF1TA28
Aluminum bottom
profile



Installing the posts in the ground

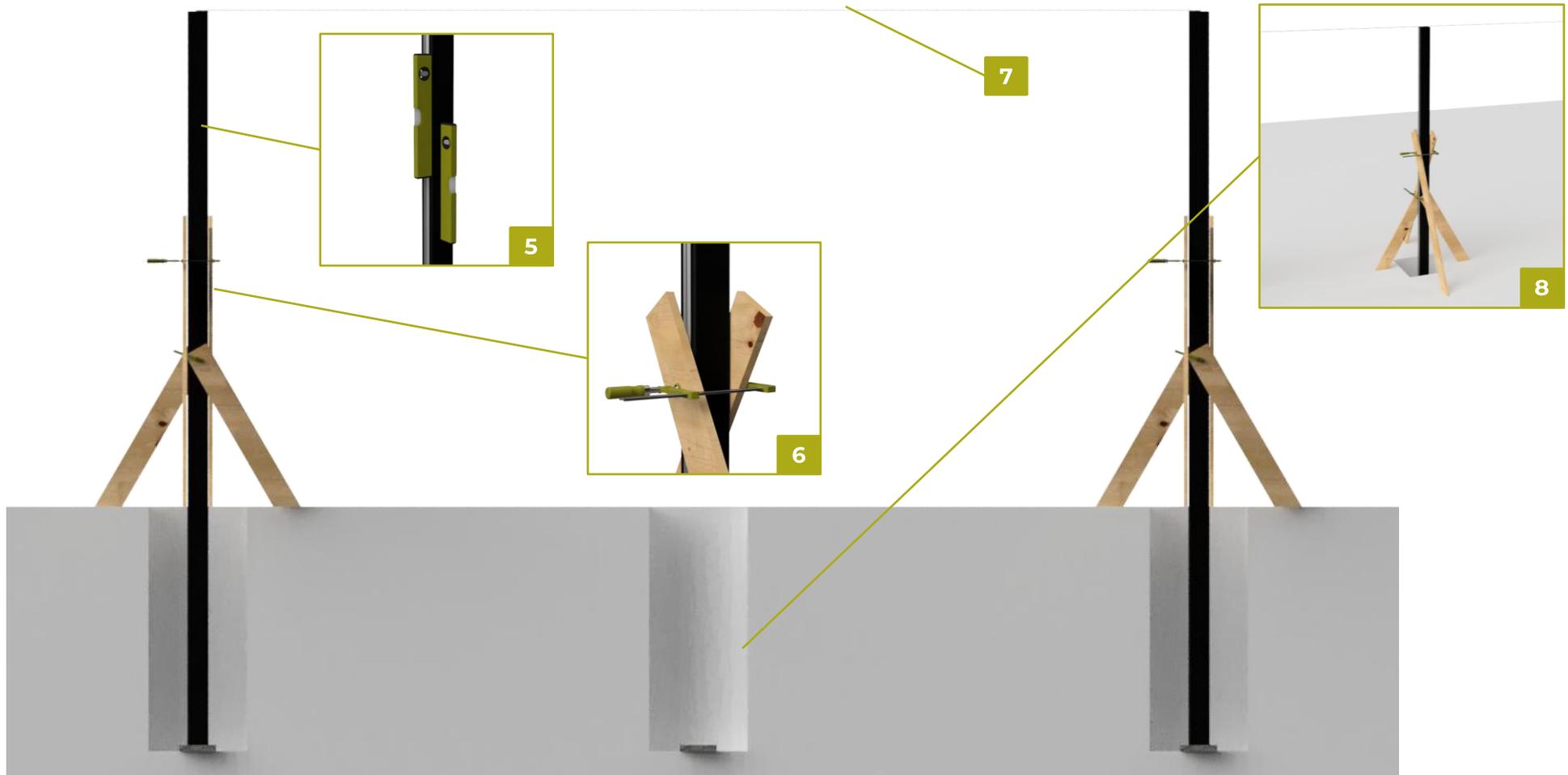
- 1 Dig 400 x 400 mm holes with the correct center-to-center distance (CTC) according to the board length (L).
- 2 Optional: Dig a groove between the holes for a concrete slab or aluminum profile (DFITA28).
- 3 Place a tile or stone at the bottom to prevent the post from sinking.
- 4 Check the depth: it should correspond to the post length (L2) plus the tile (if used).



Installing the posts in the ground

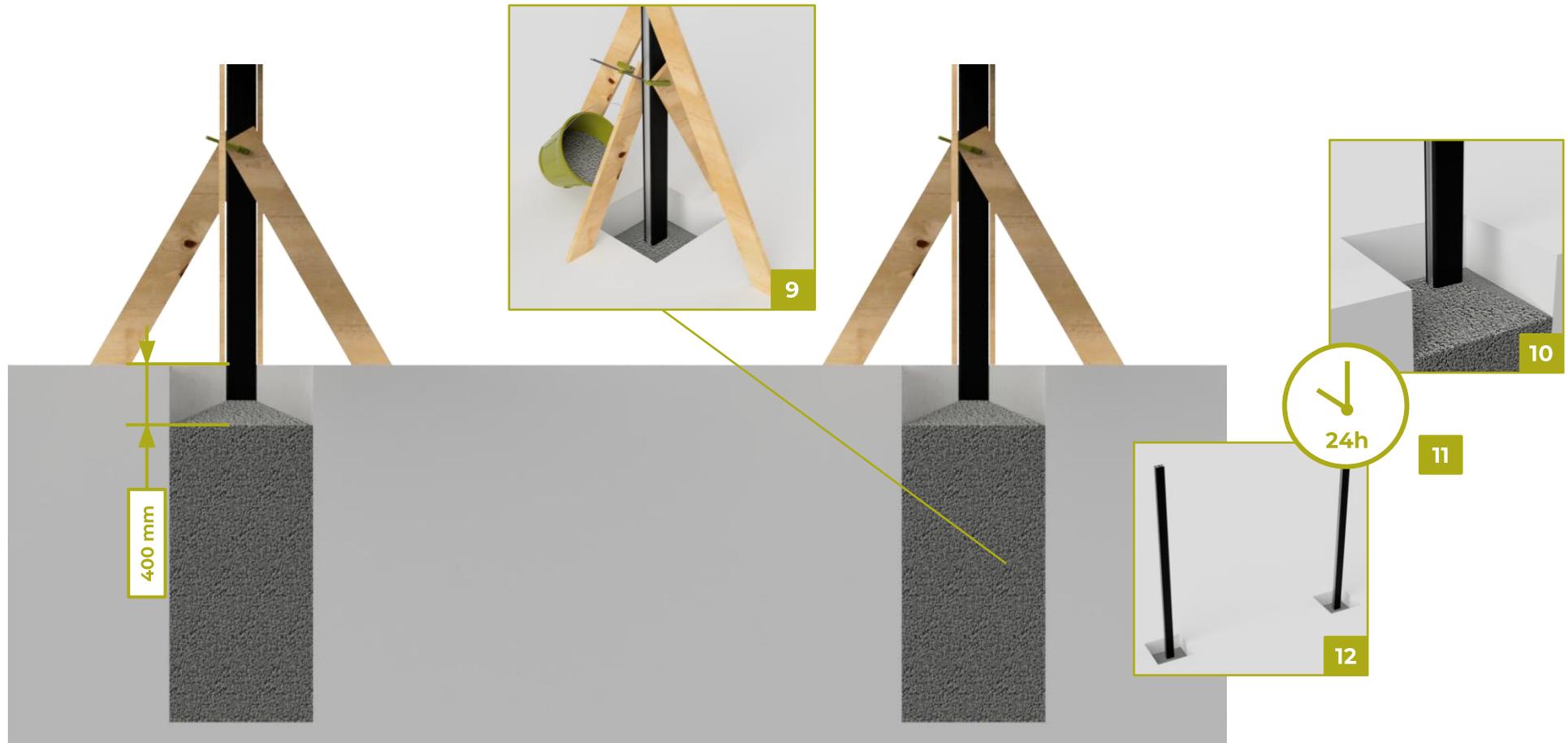
Start by placing the first and last posts in the row.

- 5-6** Check that they are straight and secure them temporarily.
- 7** Stretch a cord between the tops to ensure alignment and height.
- 8** Place the rest of the posts, check that they are straight, and secure them temporarily as well.



Installing the posts in the ground

- 9** Fill the holes at least two-thirds full with (quick-drying) concrete, up to a maximum of 100 mm below the edge.
- 10** Check that the posts are still straight. Bevel the edges to prevent water retention and cracks in the concrete.
- 11** Wait at least 24 hours before installing the boards (consult the packaging for quick-drying concrete).
- 12** The end result is a firmly anchored structure.



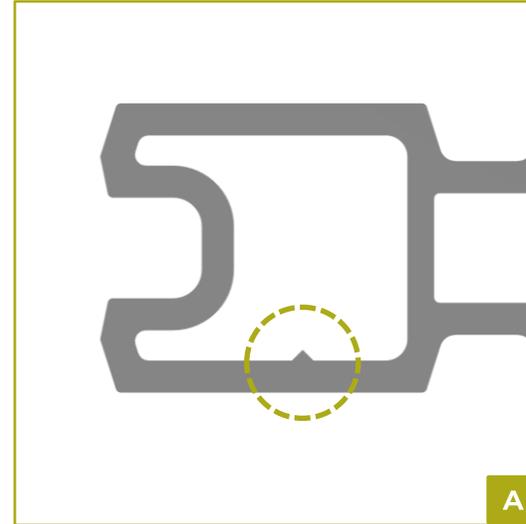
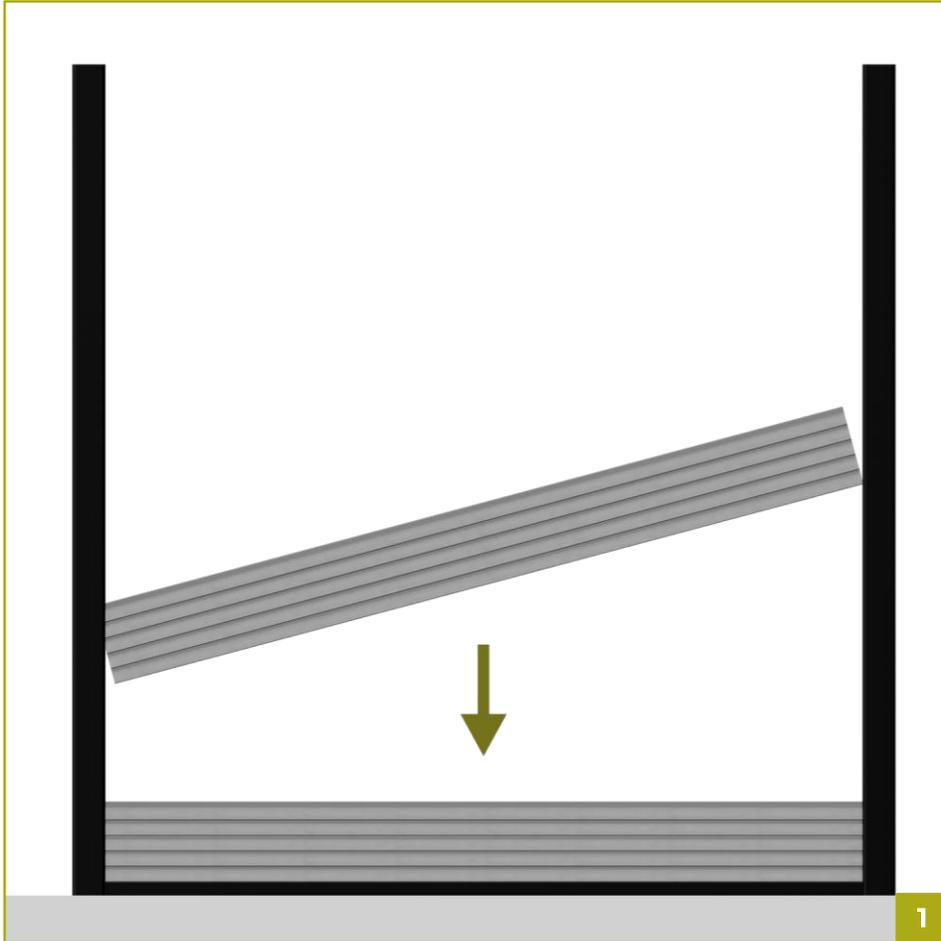
Installing the bottom profile

- 1 Ensure the top left marking is always visible when installing the aluminum support block to prevent the screws from colliding.
- 2 Place the block at the correct height (level with the top of the ground).
- 3-4 Mark and drill the holes for the adjusting screws in the center of the slotted holes, using the block as a template.
- 5 Screw the block into place.
- 6 Example of the position of the screws in the post.
- 7 Insert the bottom profile (required for DF1, DF6, and DF7), check that it is level, and adjust the block if necessary.
- 8 Now secure the block with the remaining self drilling screws (use a light screw setting).
- 9 The bottom profile is now ready for the boards to be installed.



Installing the boards

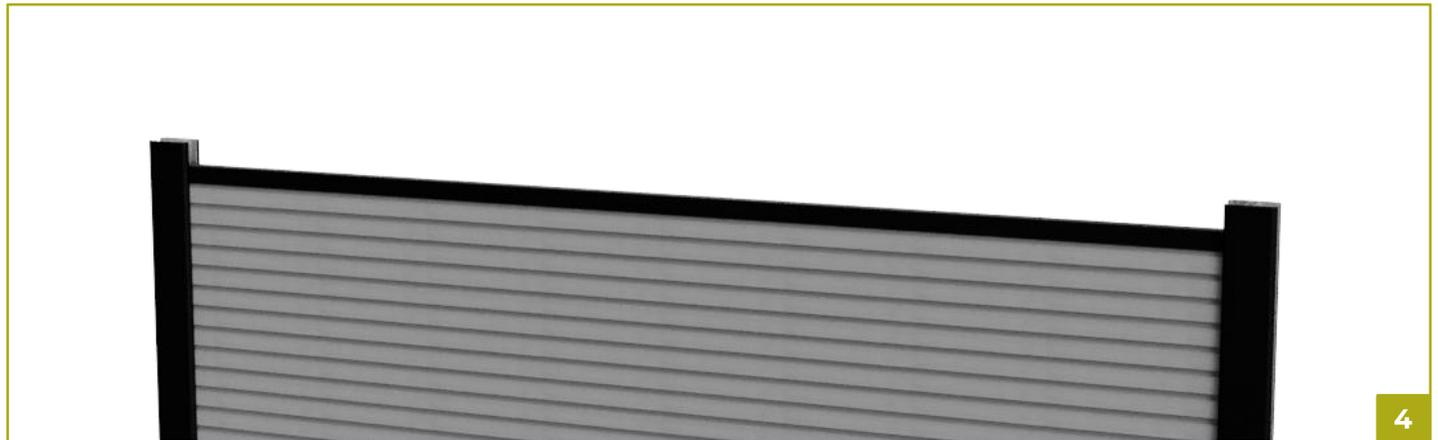
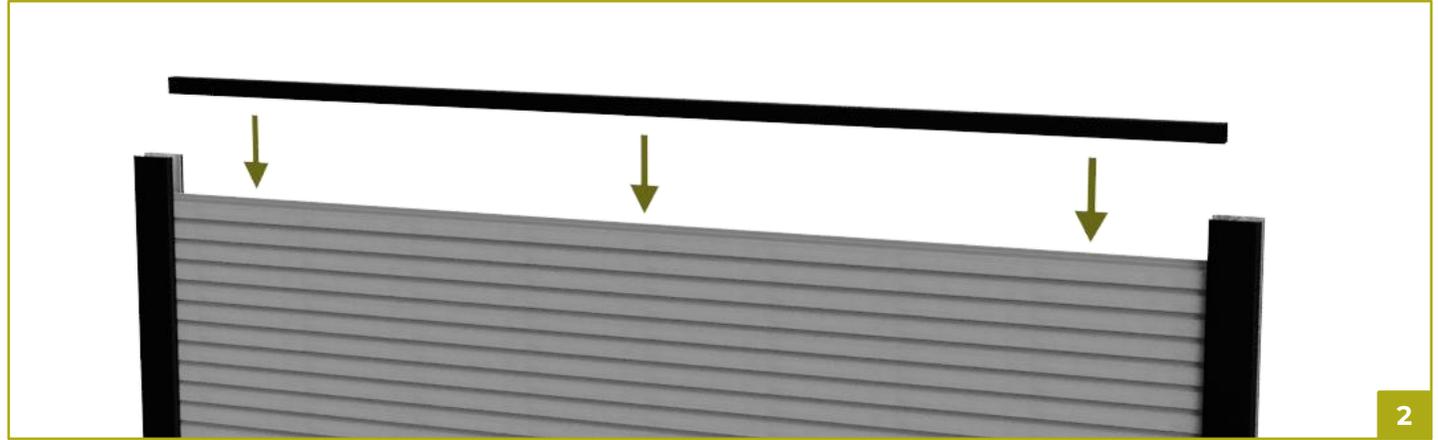
- 1 If necessary, cut the boards to the desired length.
- 1 Place the boards one by one between the posts.
- A Make sure the boards, if marked, are always oriented in the same direction to prevent color variations. The mark (a small triangle) is located on the inside of the board, in one of the openings. You can easily feel or check it with your finger.



Installing the top profile

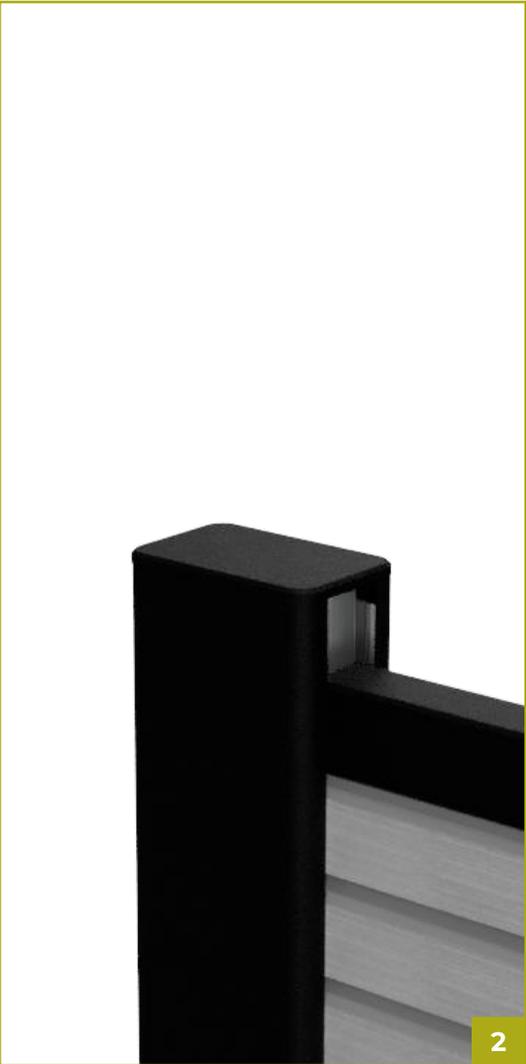
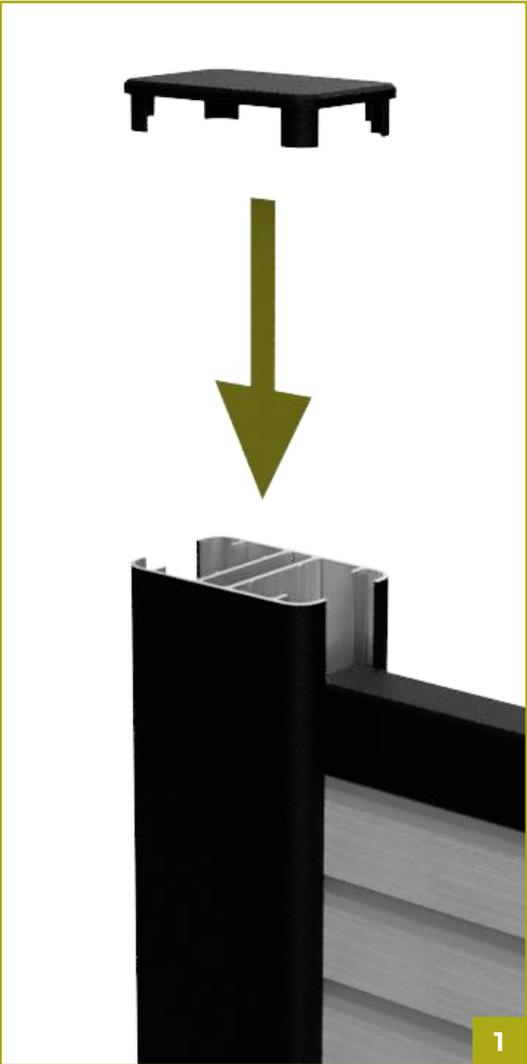
1 To finish the top of the garden screen, use a top profile (DF1UA28).

2-4 Place the top profile on the top board in the provided slots of the post. If desired, the top profile can be secured to the top board with polymer adhesive.



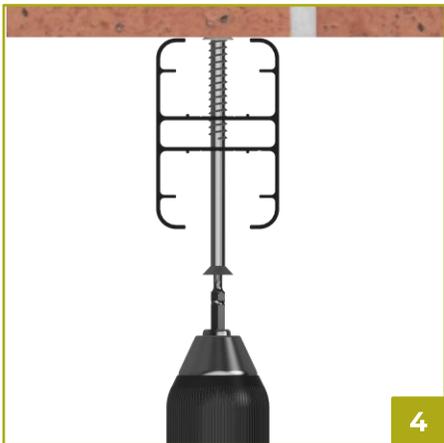
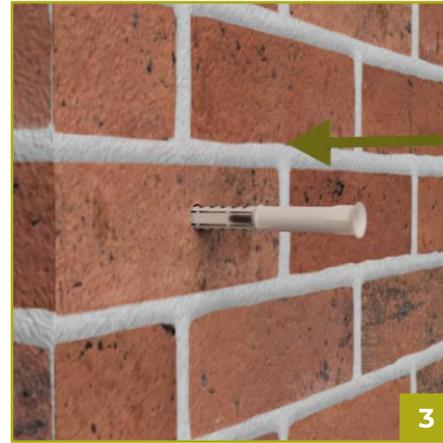
Installing the cover cap

1-2 Place the cap on the top of the post. Use a rubber mallet if necessary.



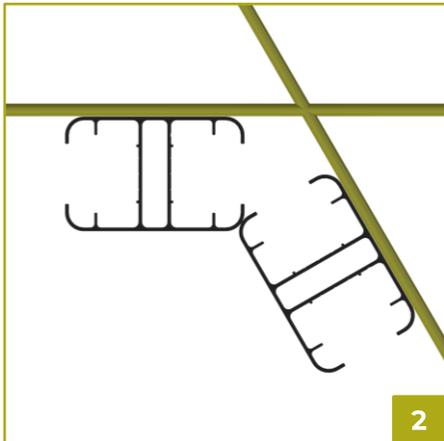
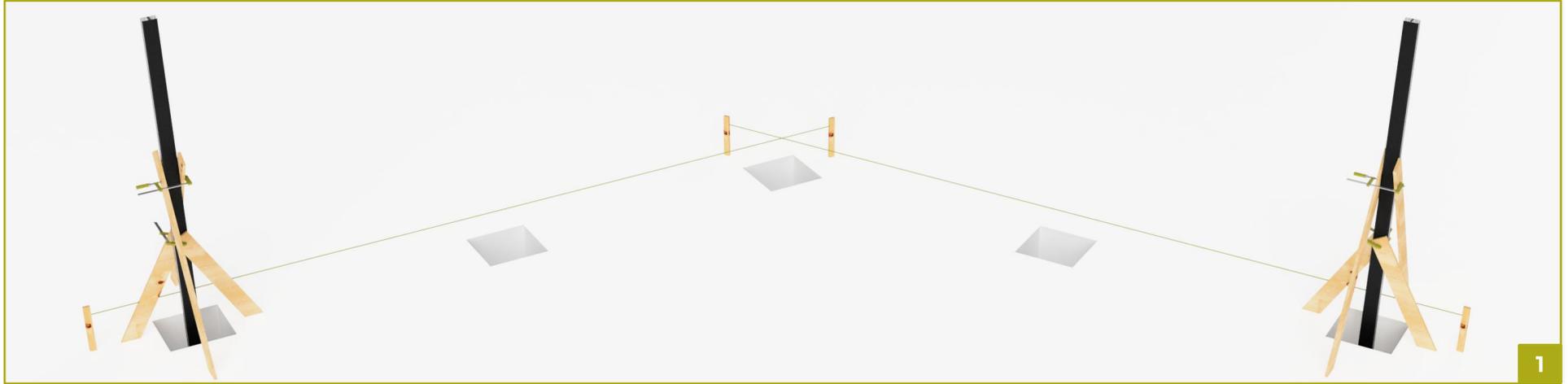
[Optional] Installing a post against a wall

- 1 Drill at least three holes in the post for the screws. Make sure they are evenly spaced along the length of the post.
- 2 Then drill holes in the wall at the same height as the holes in the post.
- 3-5 Attach the post to the wall with screws and wall plugs. Make sure the screws are at least 120 mm long.



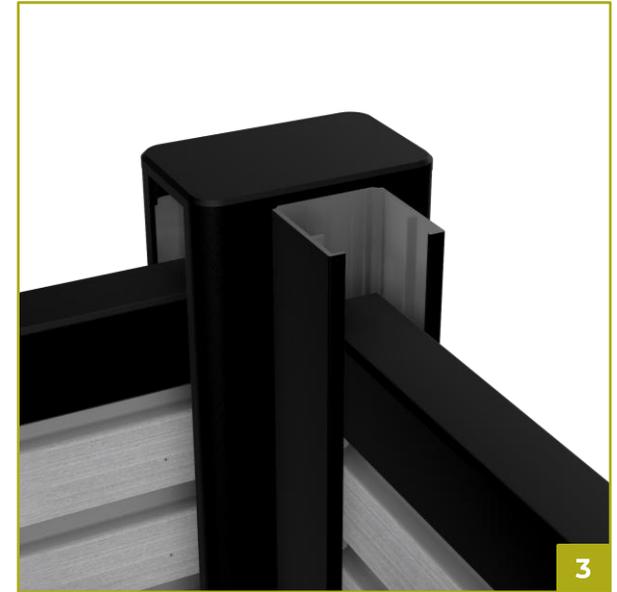
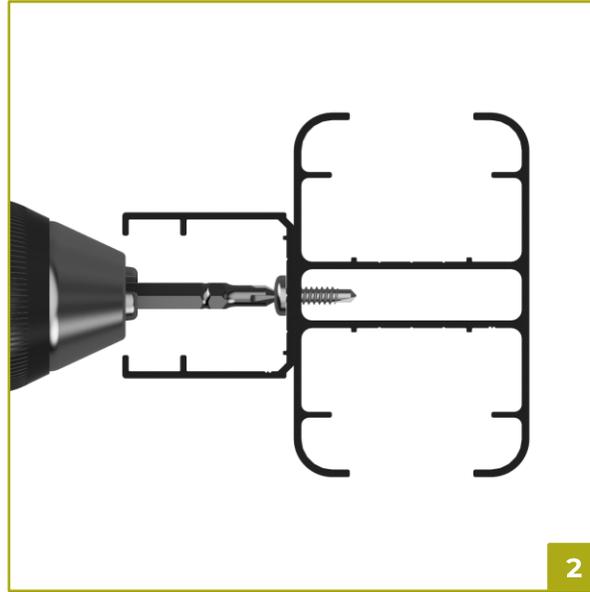
[Optional] Creating a corner in the setup (variable)

- An obtuse or acute angle can be achieved using two standard posts (DF1PA85).
- 1 To begin, dig holes for all the posts. Place the first and last posts in the row and temporarily secure them. Then, at ground level, stretch a wire from each end post to the corner. Make sure these wires reach the posts and are parallel to the screen to be installed.
 - 2 The posts can now be placed at the intersection of the two wires. Check the alignment with the two end posts.



[Optional] Creating a corner in the setup (90°)

- 1** Drill at least three holes in the aluminum U-profile (DF1UA2840) for the screws. Ensure these are evenly spaced along the length of the profile.
- 2** Attach the profile to the post with self-drilling screws (diameter 4-4.5 mm and min. length 16 mm).
- 3** The 90° angle is now complete.



[Optional] Finishing the end post

- 1 Drill at least three holes in the aluminum post for the screws. Ensure these are evenly spaced along the length of the post.
- 2 Slide/place the profile into the post (DF1UA28).
- 3 Screw the profile in place with self-drilling screws (diameter 4-4.5 mm and min. length 40 mm).
- 4-5 Install the planks, the top profile, and the cap as explained in the previous steps. The end post is now finished.

