



DF1



DF5



DF6



DF7

Horizontal installation
Garden fencing with aluminum posts

Contents

2	General Information
3	Required components
4	Length of the posts
5	Distance between the posts
6	Top and bottom profile
7	Installation of the posts In the ground with concrete
10	Support options
11	Support blocks (DFISUPA)
12	Installation of the boards
13	Installation of the top profile
14	Installation of the cover cap
[Optional]	
15	Installation of the posts Against a wall
16	Support options Concrete plate (DFUA42)
17	Installation of the posts On a solid surface
19	Creating a corner in the setup
21	Installation of the cellular rubber strip
22	Finishing the end post

Before you start the installation, we recommend carefully reading the installation instructions. The latest version is always available on the website (<https://www.duofuse.com>). Questions can be submitted via the contact form on the website (www.duofuse.com/be/Contact/#form). Plastivan disclaims any responsibility if these guidelines are not followed

Storage

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

Installation

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

Safety

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

Personal safety equipment

Ensure that you wear the appropriate personal safety equipment, such as safety glasses, hearing protection, gloves, safety shoes, and others as applicable.

Processing of Duofuse products

Traditional tools can be used for all operations on Duofuse® products. Use a drill with low speed and high torque. Ensure that all leftover material, sawdust, and waste are carefully collected and disposed of properly according to applicable environmental standards. Avoid spilling or spreading leftover material during the processing. If necessary, place protective barriers to prevent contamination of soil and water.

Visual appearance of Duofuse® products

After the boards are exposed to some rain, drip marks or rings may appear on the wood composite. This is a temporary process caused by the release of lignin from the wood. Washing with a garden hose will temporarily remove these rings. Over time, this process will stop, and the markings will completely disappear. The colors and brushing may vary from one production batch to another and are not contractually binding. It is advised not to mix boards from different production batches. You can find the production date on the top of each board.

Damage

In case of any damage, contact the distributor/installer responsible for delivering/placing the garden fencing.

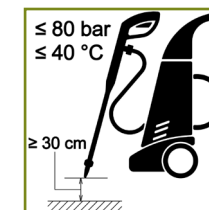
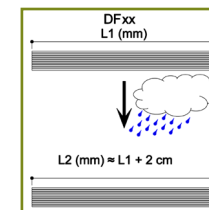
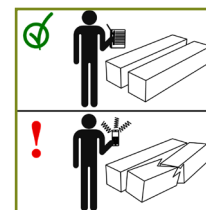
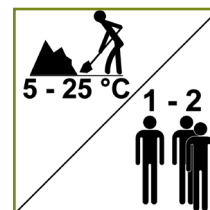
Expansion

Wood composite is sensitive to expansion when exposed to weather conditions such as temperature and moisture fluctuations. For a 2-meter-long board, the total expansion can reach up to 20 mm. When installing, make sure to account for this natural expansion to prevent tension.

Maintenance

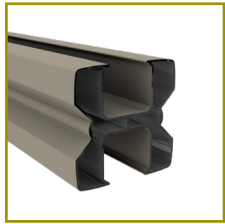
For regular maintenance, a brush or pressure washer (max. 80 bar) can be used. Any grease or oil stains can be removed with a household degreaser. Stubborn dirt, such as stains of organic origin, algae growth, or moss, should be treated with a diluted bleach solution (25% bleach of 10° with 75% water). Solvents should NOT be used. Stains should be removed immediately to prevent them from penetrating or drying into the material. For more information on maintenance, you can visit the Duofuse website at the following link: https://www.duofuse.com/be/Product_informatie/Onderhoud/

All images are illustrated with the DF7. However, this does not mean that the installation method is exclusively for this board. Please read the instructions carefully.



Required Components

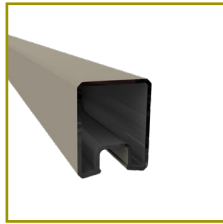
For a standard installation:



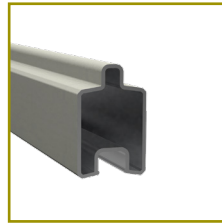
DF1PA82
Aluminum post



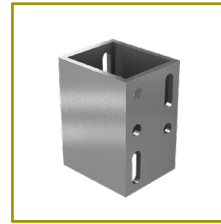
DF1CA8.2
PVC cover cap



DF1UA28
Aluminum
top profile

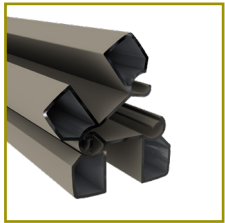


DF1TA28
Aluminum
bottom profile



DF1SUPA
Aluminum
support block

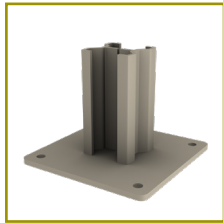
Optional:



DF1PA41
Aluminum
hinge post



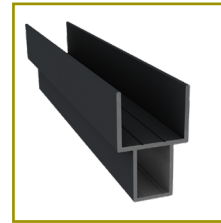
DF1CA4.1
PVC cover cap



DFPHA15
Internal post holder
for DF1PA82 (coated)

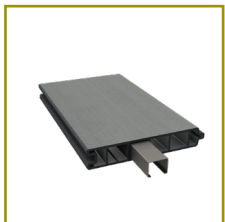


DFRT10X6
Cellular rubber strip

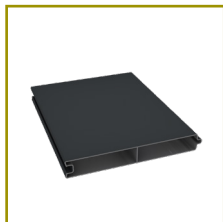


DF1UA42
Expansion profile

Available Boards:



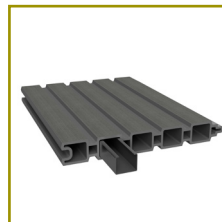
DF1B150
Tongue and groove
board (reinforced with
steel profile)



DF5BA200
Tongue and groove
board



DF6BP250
Tongue and groove
board (reinforced with
steel profile)



DF7B200
Tongue and groove
board (reinforced with
steel profile)

Explanation

DF1PA41 + DF1CA4.1

Only required when creating a corner of 60° to 169°. Cannot be combined with DFPHA15

DFPHA15

Applicable only when installing on a solid surface (concrete plate with a minimum thickness of 8 cm).

DFRT10X6

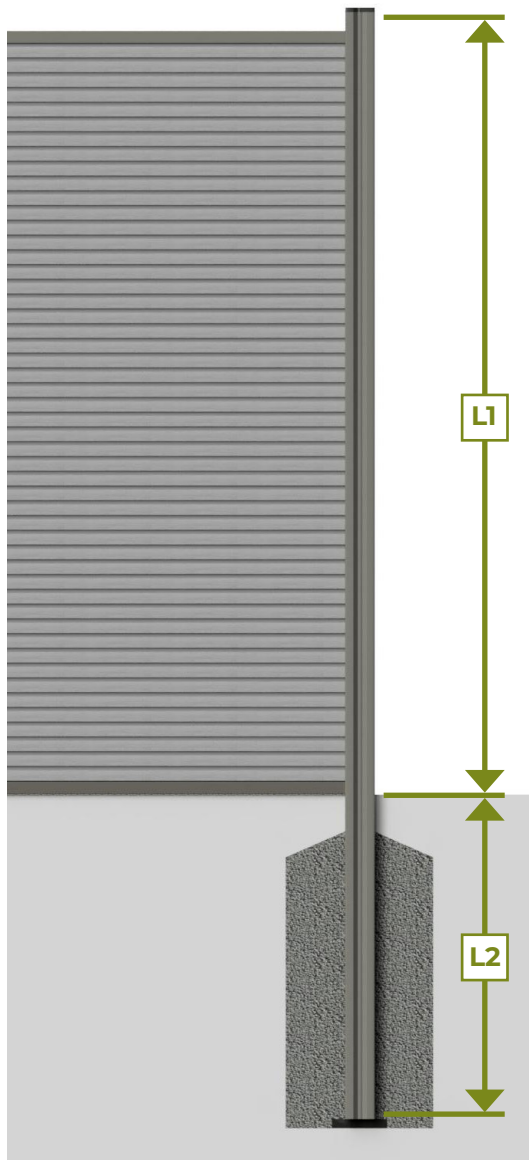
Reduces the noise caused by the movement of the boards in the slot of the post.

DF1UA42

Expansion profile for an installation with a concrete plate as the support method.

! A standard installation is based on the most common method, components, and dimensions.

Length of the posts



	Board	Expansion (A)
	DF1B150	50 mm
	DF5BA200	30 mm
	DF6BP250	30 mm
	DF7B200	50 mm

+

	Top Profile (1x) [DF1UA28] Height 35 mm
	1 x 35 mm

+

Board	Width	Quantity x Width
DF1B150	150 mm	
DF5BA200	200 mm	
DF6BP250	250 mm	
DF7B200	200 mm	

+

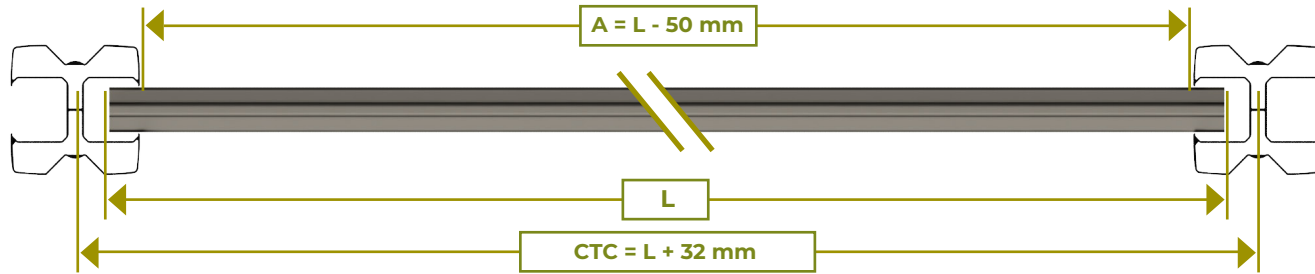
	Bottom profile (1x) [DF1TA28] Height: 35 mm
	1 x 35 mm

= (L1) Length of the post above ground level
= Expansion (A) + 35 mm + (quantity x width) + 35 mm

(L1) Length of the post above ground level	(L2) Length of the post below ground level
1500 mm =< L1	800 mm
1200 mm =< L1 < 1500 mm	700 mm
L1 < 1200 mm	500 mm

! If the boards can directly rest on a concrete plate or a solid surface, the bottom profile is not required, and the 35 mm should not be included in the calculation. However, we generally recommend using the bottom profile. When using a concrete plate, make sure that the height of the part that protrudes above the ground level is taken into account in the calculation for the post length above the ground.

Distance between the posts



Explanation

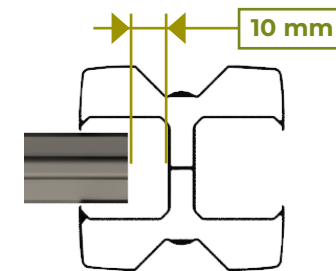
Example of standard board size 2000 mm:

Length of the board (L) = 2000 mm

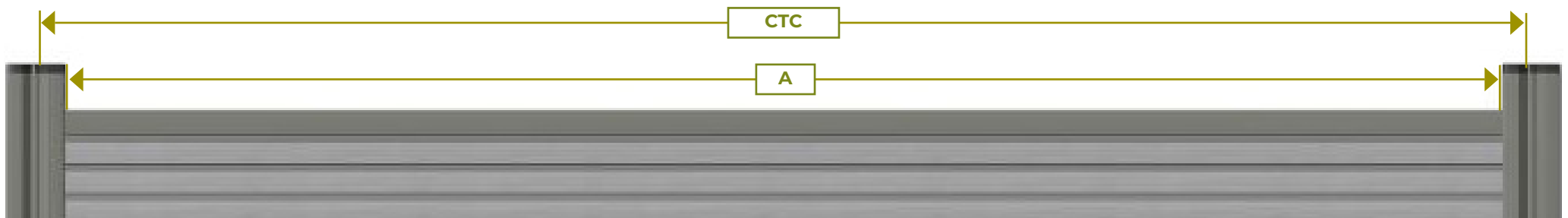
Distance between the posts (A)
= Length of the board (L) - 50 mm
= 2000 mm - 50 mm
= **1950 mm**

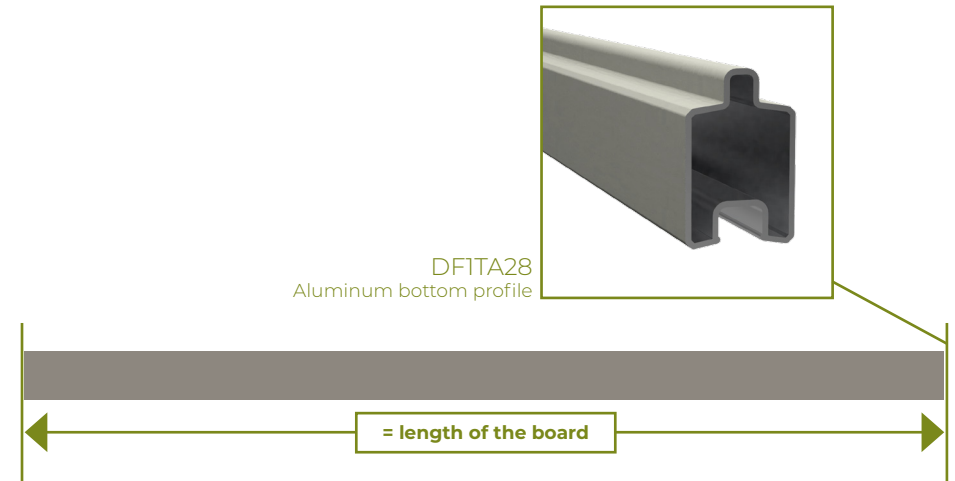
Center-to-center distance between posts (CTC)
= Length of the board (L) + 32 mm
= 2000 mm + 32 mm
= **2032 mm**

Expansion



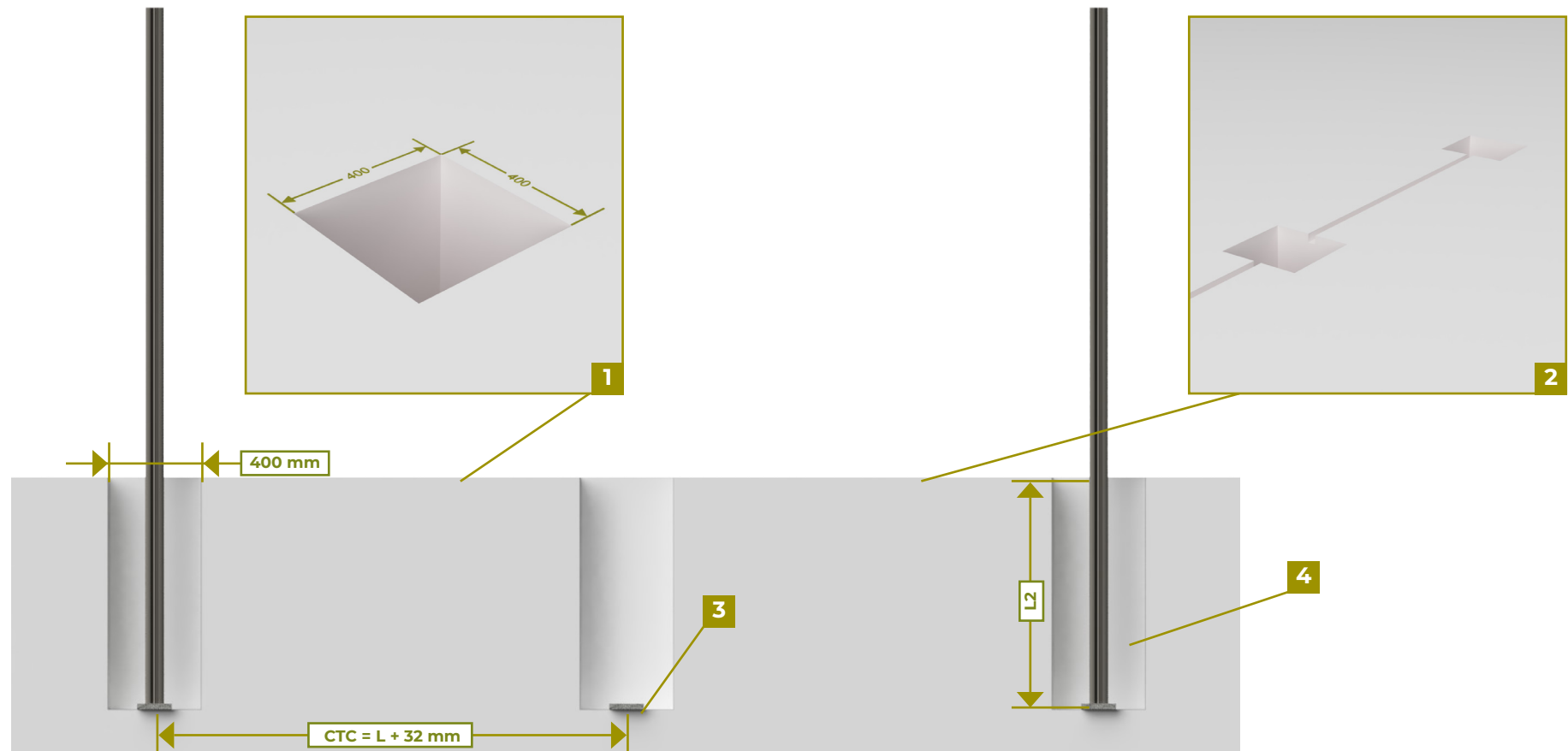
! The 10 mm gap is necessary on both sides of the board to allow the wood composite to expand.





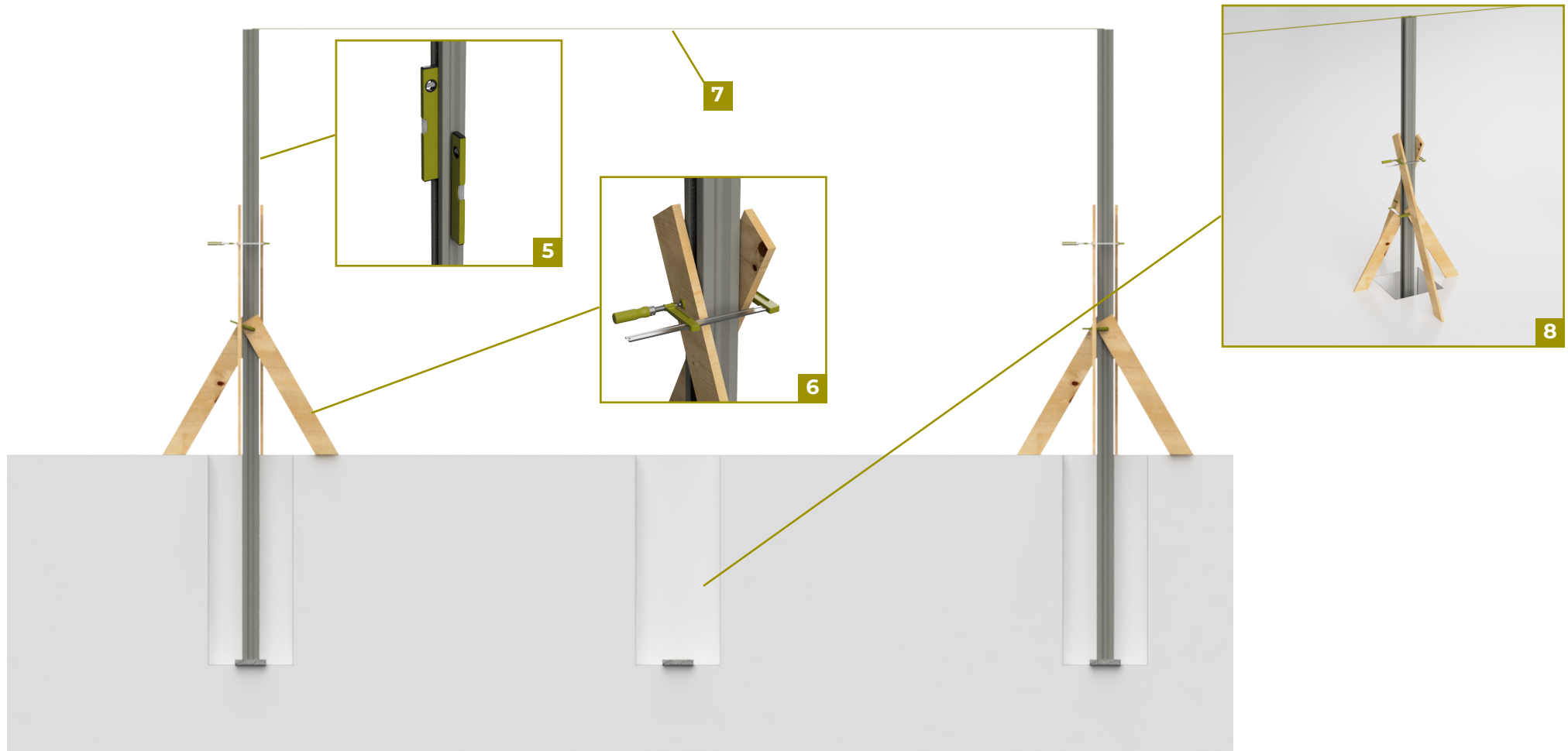
Explanation

The top profile (DF1UA28) and the bottom profile (DF1TA28) must have the same length as the length of the board.



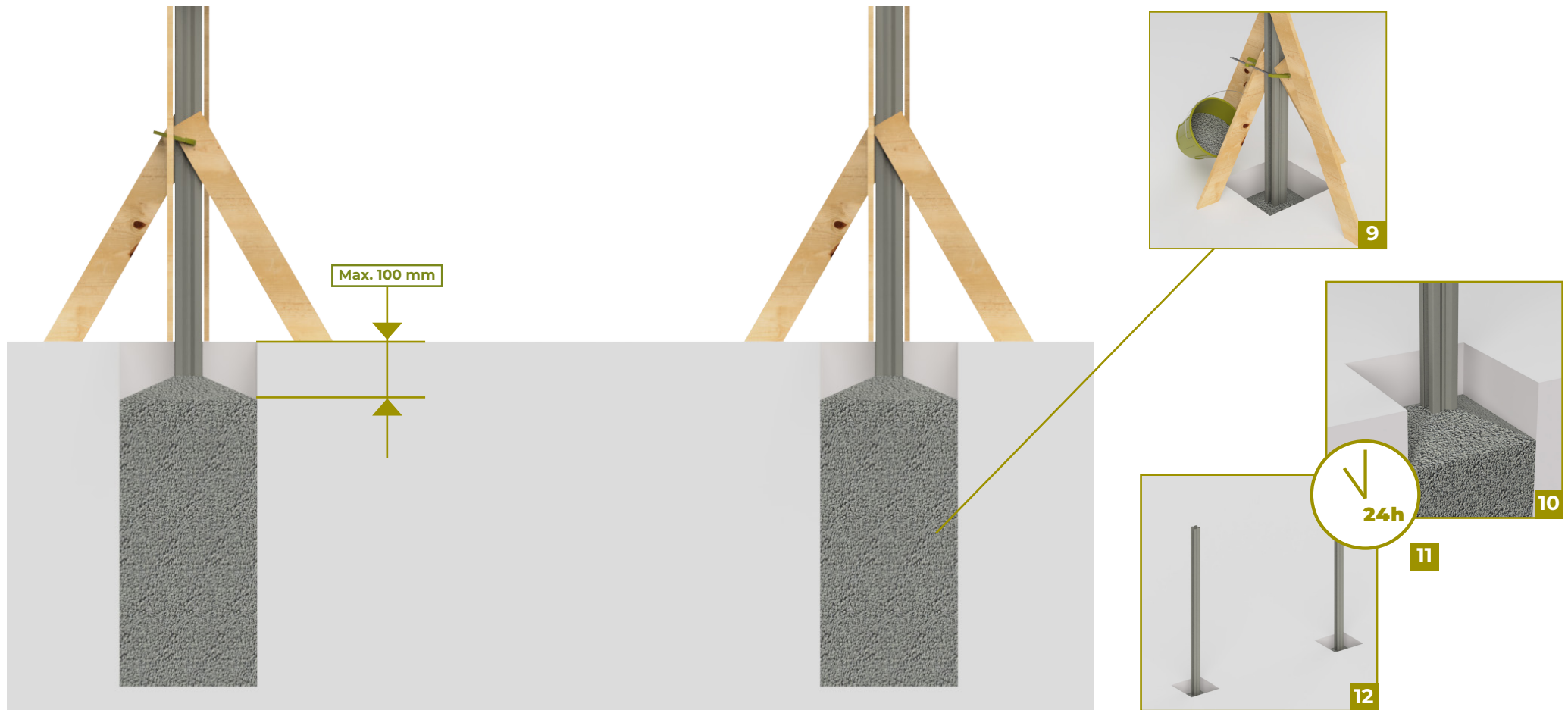
Explanation

1 Dig holes of 400 x 400 mm with the correct center-to-center (CTC) distance according to the plank length (L). **2** Optional: dig a groove between the holes for a concrete plate 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 match the post length (L2) plus the tile (if used).



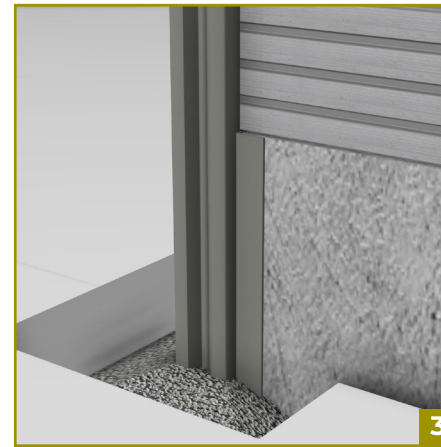
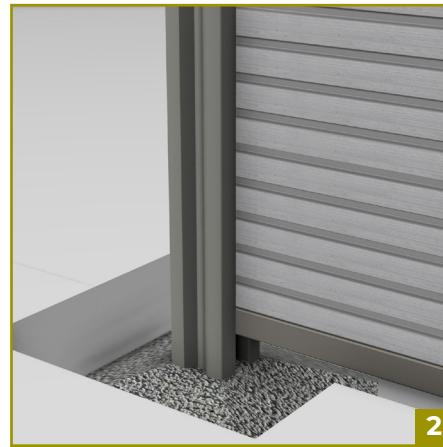
Explanation

Start by placing the first and last post in the row. **5-6** Check if they are straight and temporarily secure them. **7** Stretch a string between the tops to ensure alignment and height. **8** Place the intermediate posts, check if they are straight, and temporarily secure them as well.



Explanation

9 Fill the holes at least 2/3 with (fast-setting) concrete, up to a maximum of 100 mm below the edge. Check if the posts are still straight and ensure there is space for a support block (DFISUPA). **10** Angle the edges to prevent water accumulation and cracks in the concrete. **11** Wait at least 24 hours before placing the plank; refer to the packaging for fast-setting concrete. **12** The end result is a securely anchored structure.

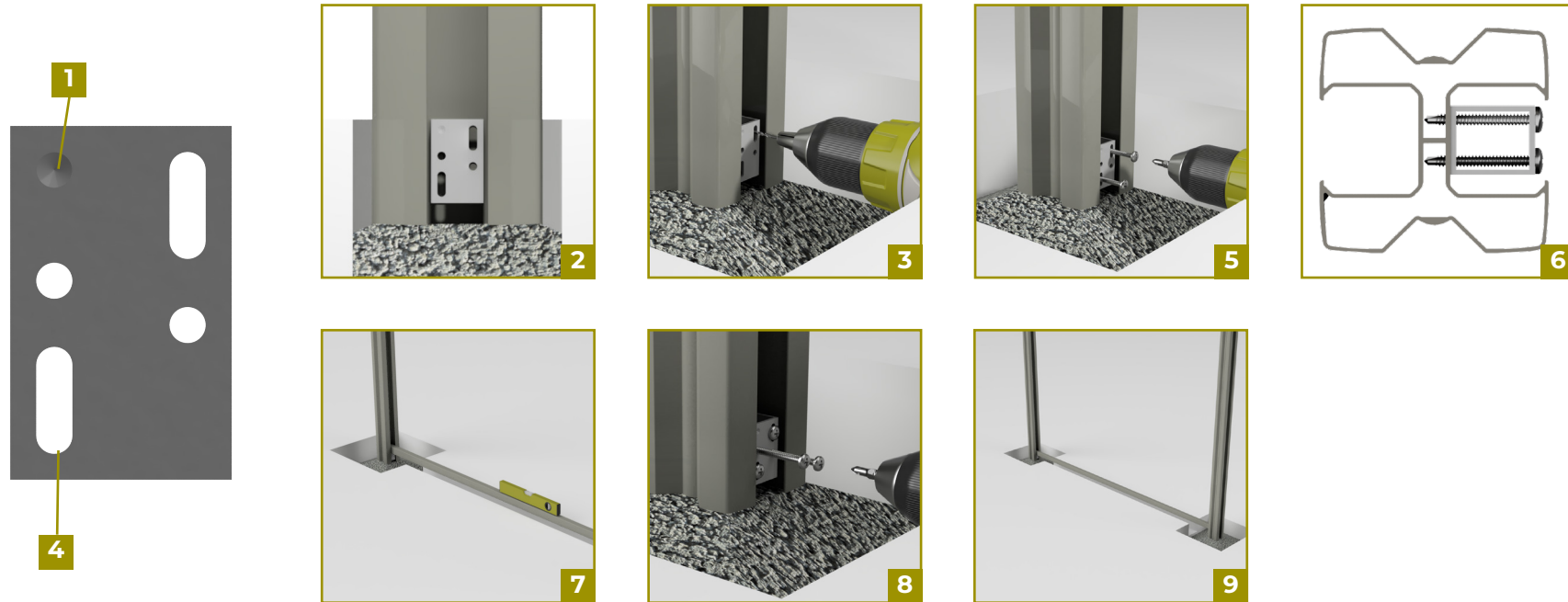


Explanation

There are various ways to support the planks and the sub-profile, depending on the type of installation.

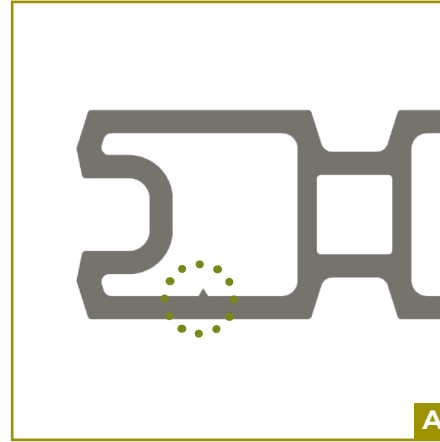
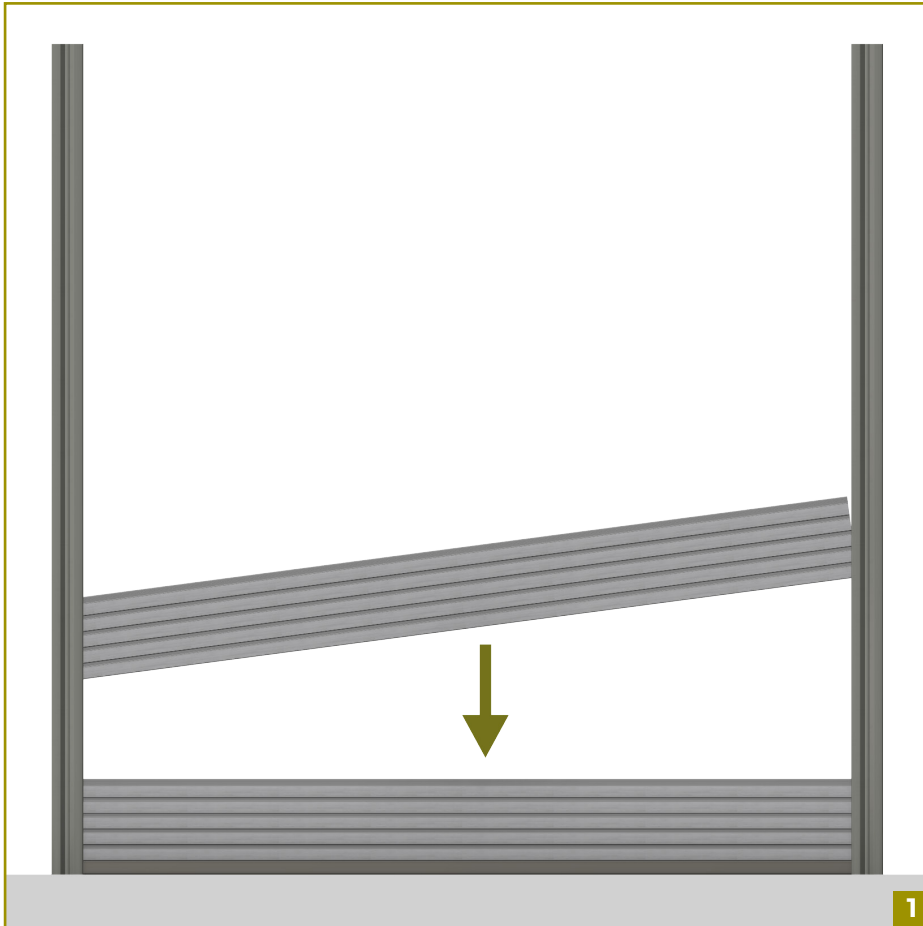
The following methods can be applied:

- 1** In the first method, the planks and sub-profile rest directly on a solid surface (paving stones or concrete) to prevent settling.
- 2** In the second method, the planks and sub-profile are supported by aluminum blocks inside the pole.
- 3** In the third method, they rest on a concrete base plate, level with or above the ground
- 4** In the fourth method, the planks and sub-profile are supported by an aluminum pole holder.



Explanation

1 Each block has a marking in the top-left corner; make sure it is always in the same position to prevent the screws from colliding during assembly. **2** Place the block at the desired height (standard is level with the ground). **3-4** Drill holes for the adjustment screws in the center of the elongated holes for height adjustment. Use the block as a marking tool. **5** Screw the block in place with the included screws. **6** The screws should be positioned in the pole. **7** Place the sub-profile (required when using blocks and wood composite planks) and check if it is level. Adjust the height of the block by loosening the adjustment screws and adjusting the block. Tighten the screws when the profile is level. **8** Secure the block with locking screws (self-tapping, no pre-drilled hole needed). Set your screwdriver to a low torque setting. **9** The sub-profile is now ready for the planks.



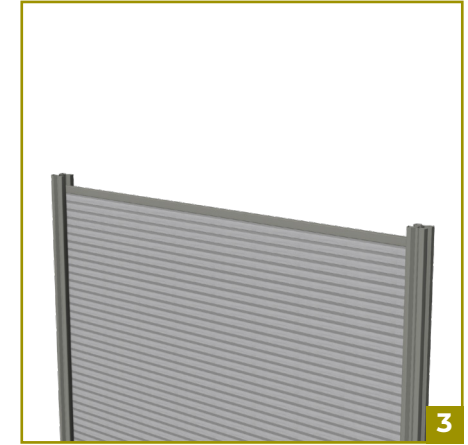
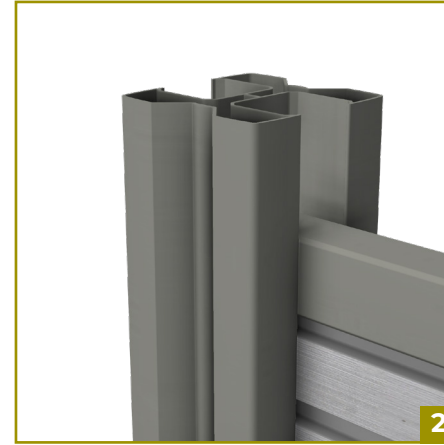
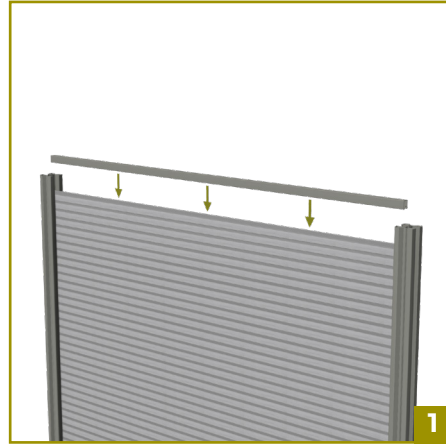
Explanation

If necessary, cut the boards to the desired length. **1** Place the boards one by one between the posts. **A** Ensure that the boards, if marked, are always positioned in the same direction to avoid color differences.

Installation of the top profile



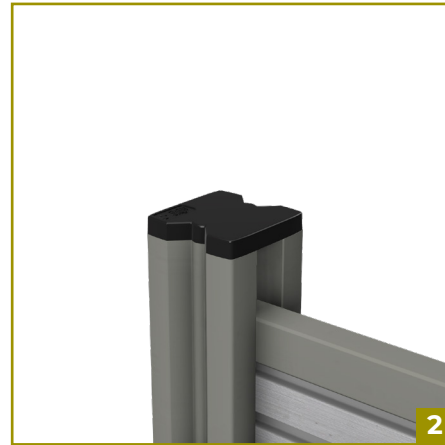
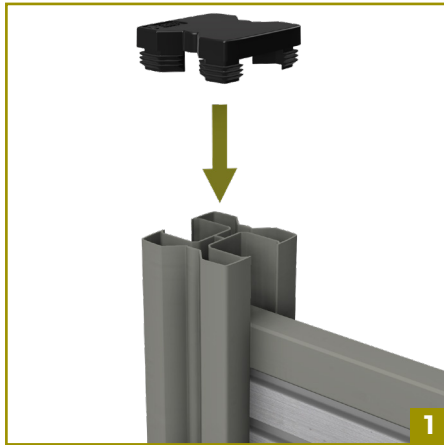
DF1UA28
Aluminum top profile



Explanation

To finish the top of the garden fence, a top profile (DF1UA28) is used. **1-3** Place the top profile on the top board in the designated grooves of the post.

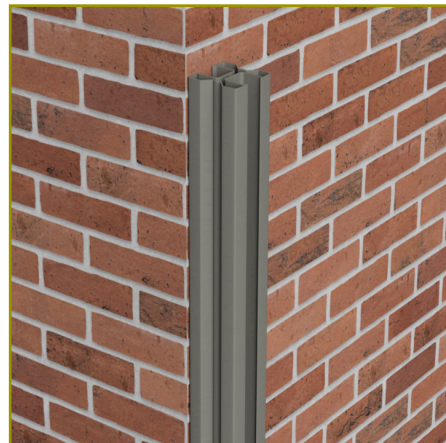
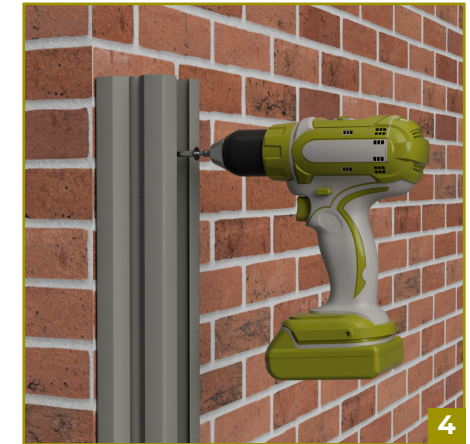
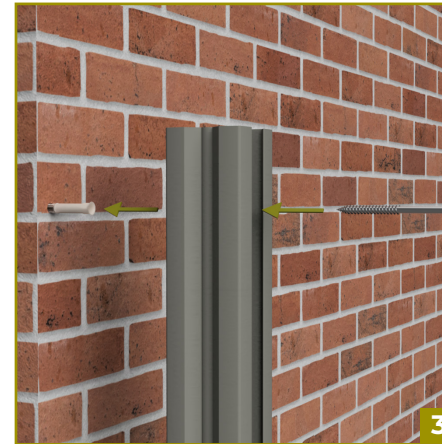
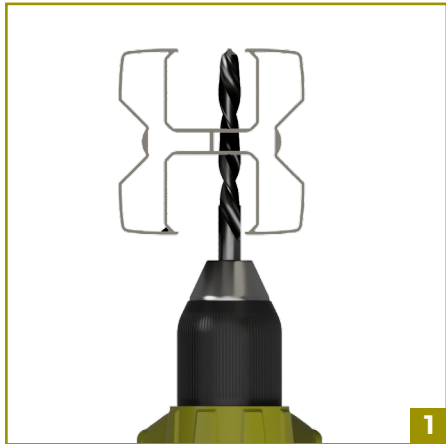
Installation of the cover cap



Explanation

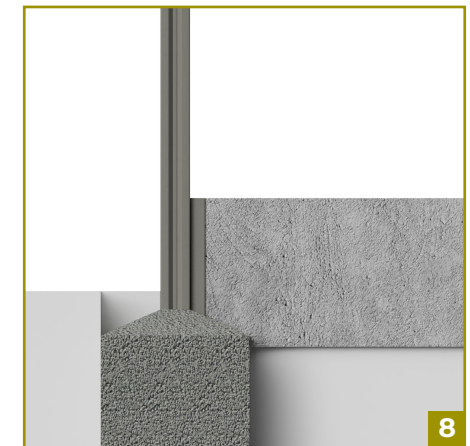
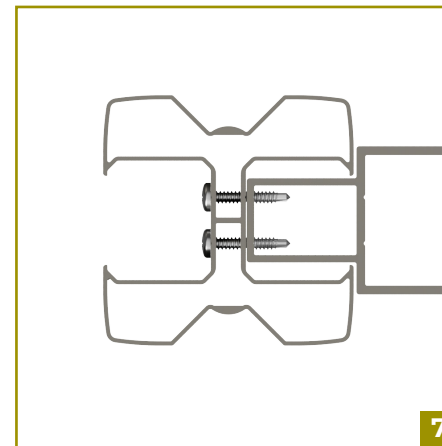
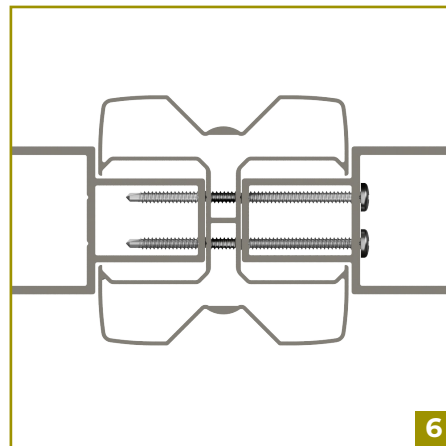
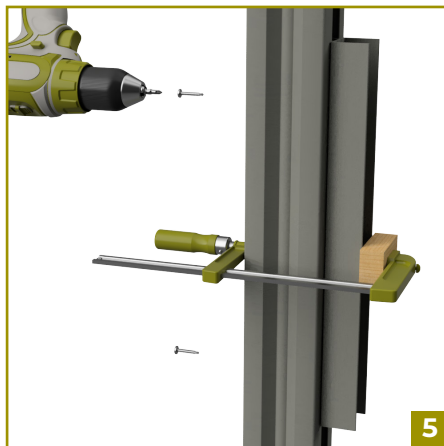
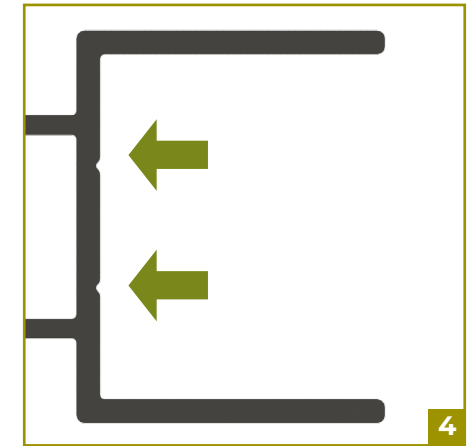
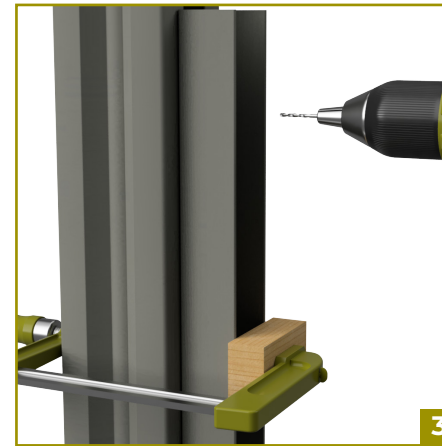
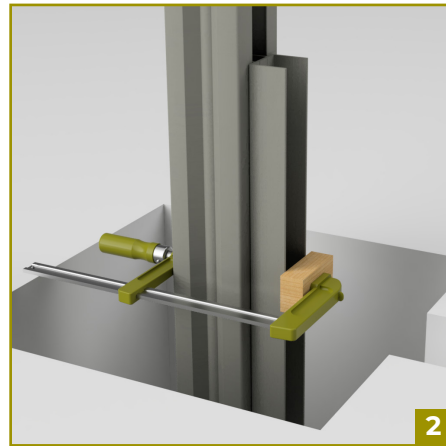
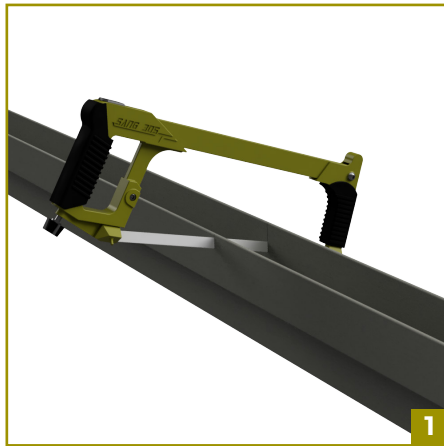
1-2 Place the cap on top of the post. You can use a rubber mallet for this. When using cellular rubber tape, check if there are any excess parts. Remove them if necessary.

[OPTIONAL] Installation of the posts Against a wall



Explanation

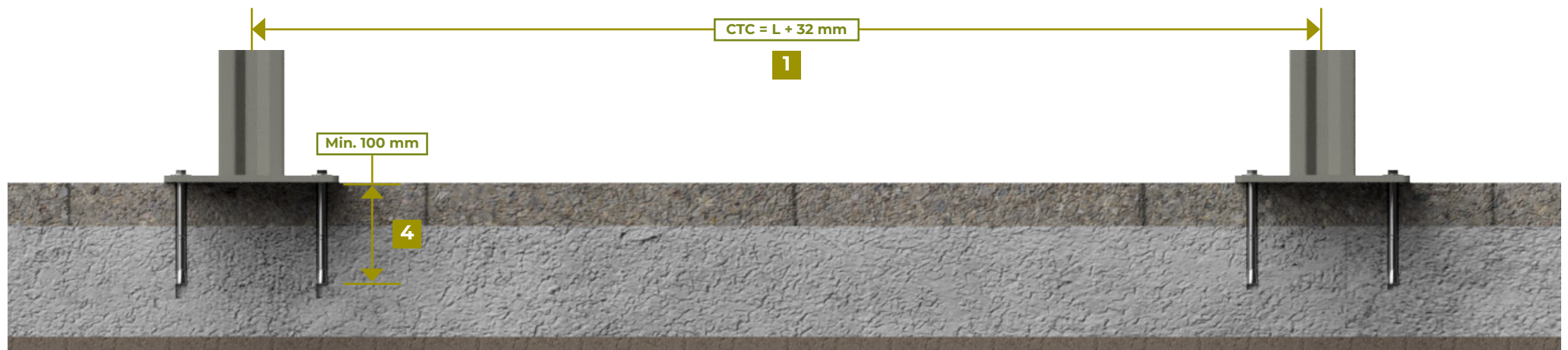
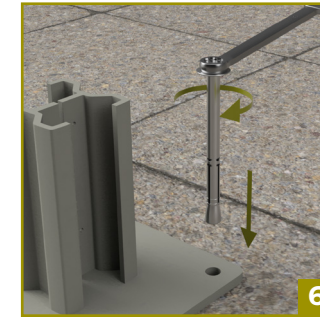
Drill at least three holes in the pole for the screws. Make sure they are evenly spaced along the length of the pole. **1** Do not drill the holes straight through the middle of the pole, but slightly to the left and right in the designated grooves. **2** Then, drill holes in the wall at the corresponding height as the holes in the pole. **3-5** Secure the pole to the wall with screws and plugs. Ensure that the screws are at least 120 mm long."



Explanation

1 Cut the expansion profile (DF1UA42) to the length of the concrete plate. **2** Place the profile at the desired height, depending on how much of the concrete plate should be visible above the ground. Clamp the profile in place with glue clamps and wooden blocks. **3** Drill holes so that the screws are a maximum of 400 mm apart. **4** Do not drill the holes in the center of the profile, but in the designated grooves. **5** Screw the profiles in place with self-drilling or self-tapping screws. **6** Use 70 mm screws when placing a profile on both sides of the post. **7** Use 25 mm screws when placing a single profile. **8** Slide the concrete plate into the expansion profiles and secure the posts and concrete plate with (fast-setting) concrete.

[OPTIONAL] Installation of the posts on a solid surface



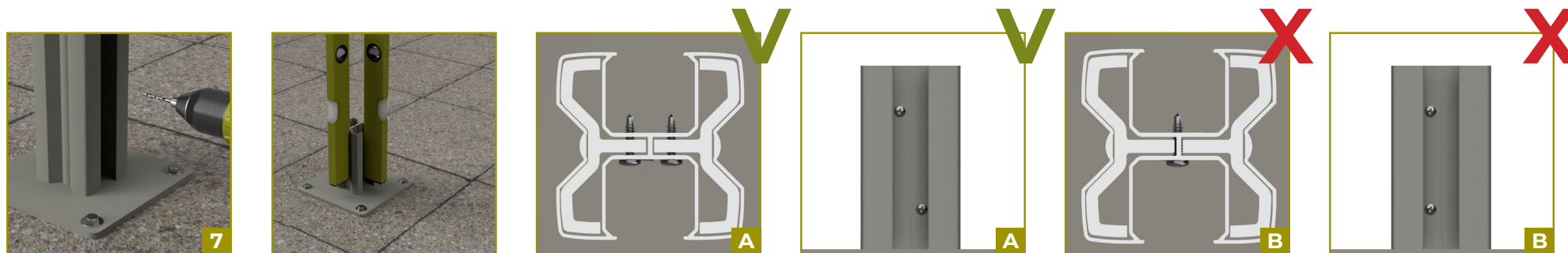
Explanation

1 Place the internal pole holders at the desired location with the correct center-to-center (CTC) distance. **2** Mark the holes using a 13 mm drill bit. **3-4** Remove the post holder and drill the necessary holes through the substrate, deep enough for the chosen fastening materials. **5** Check that the post holder is level in both directions. If not, raise the lowest side with glazing blocks, filler shims, or plastic thickness spacers. **6** Secure the post holder with chemical anchors or wedge bolts (at least 100 mm long, 12 mm thread diameter). Follow the instructions for chemical anchors. Cut the post to the correct length and place it on the post holder.

! In wind-sensitive areas, it is recommended to anchor the posts in the ground.

! For fences longer than 20 meters, it is recommended to anchor one post in the ground for every four posts.

[OPTIONAL] Installation of the posts on a solid surface



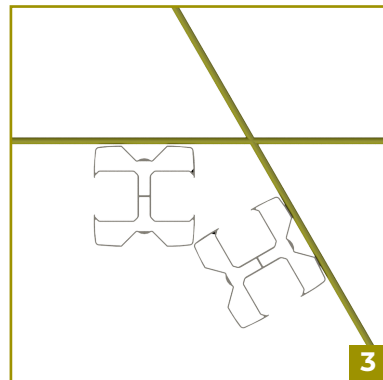
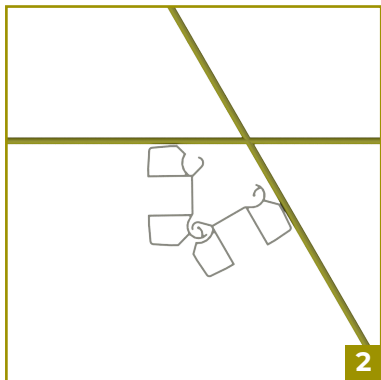
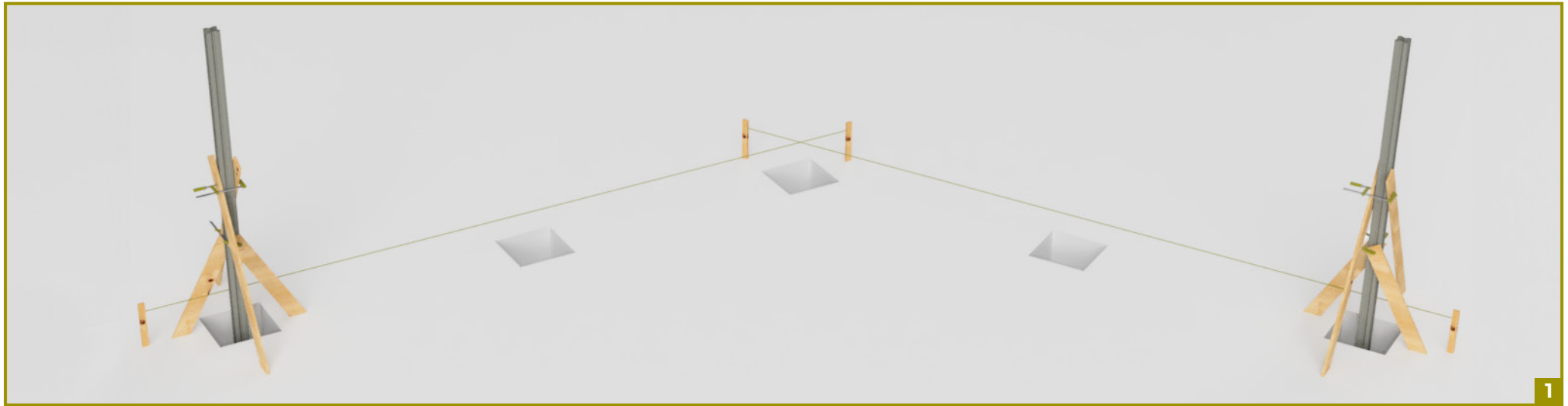
Explanation

7 Drill at the bottom of the post at 50 mm and also at a height of 120 mm. Note that if a support block is used, there will be no screw at the 50 mm height, and the screw will need to be placed above the block. **8** Now secure the post to the post holder with at least two self-tapping screws (minimum diameter 4 mm). **A** Example of correct screw positioning for securing the post and post holder. **B** Examples of incorrect screw positioning for securing the post and post holder.

! In wind-sensitive areas, it is recommended to secure the posts in the ground.

! For fences longer than 20 meters, it is recommended to anchor one post **in the ground** for every four posts placed (1 - 4 - 1 - 4 - 1 - 4 - 1).

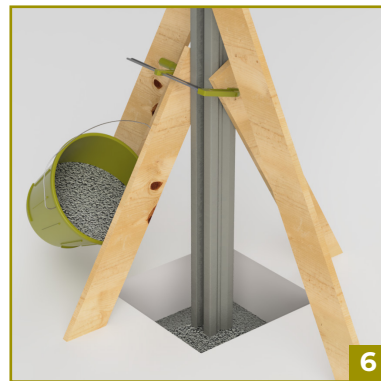
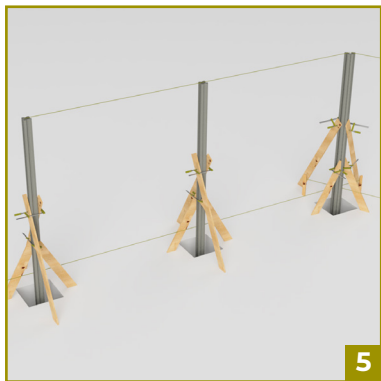
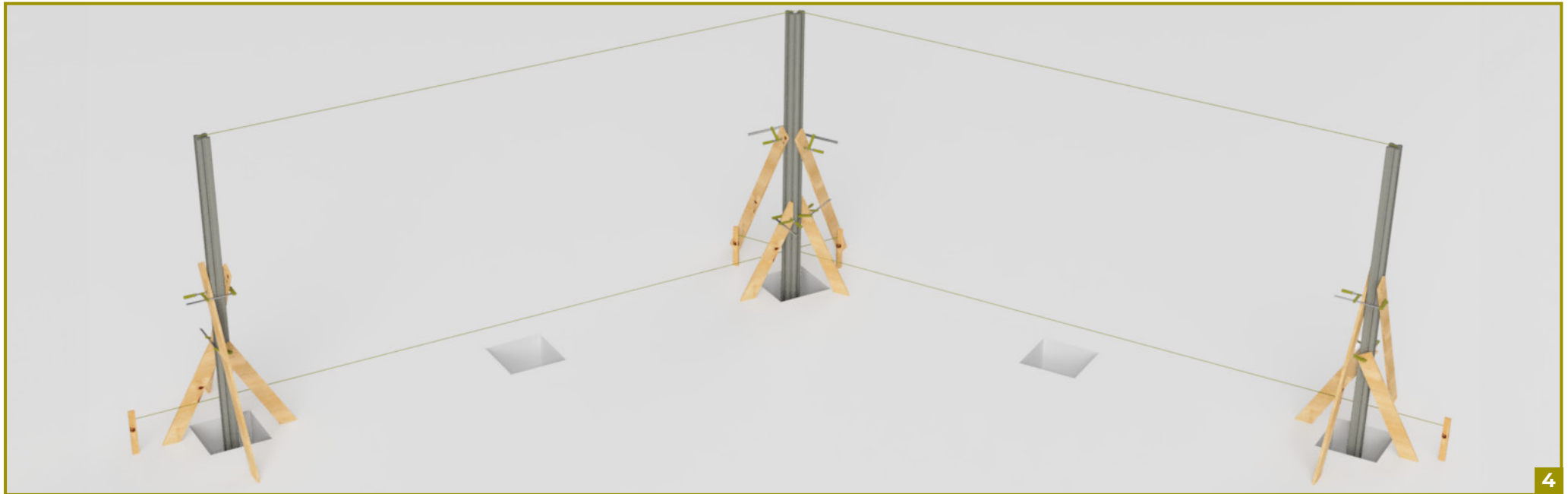
[OPTIONAL] Creating a corner in the setup



Explanation

A blunt corner can be achieved using a hinge post (DF1PA41) or two standard posts (DF1PA82). **1** To start, dig the holes for all the posts. Place the first and last post in the row and temporarily secure them. Next, stretch a string at ground level from each end post to the corner. Make sure these strings reach the posts and are parallel to the fence to be installed. At the intersection of the two strings, you can now place the corner post (hinge post **2** or standard post **3**). Check the alignment with the two end posts.

[OPTIONAL] Creating a corner in the setup



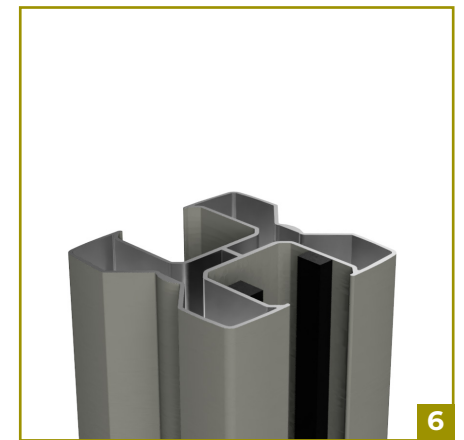
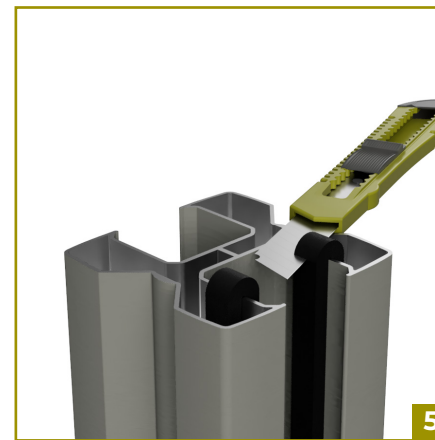
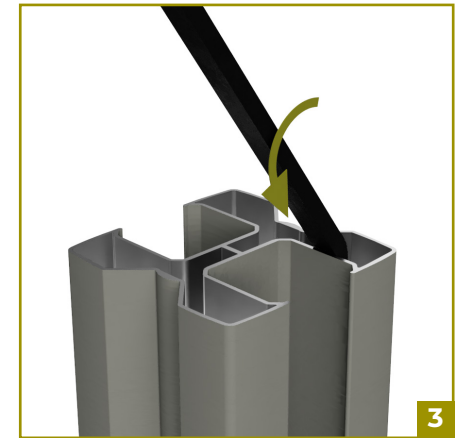
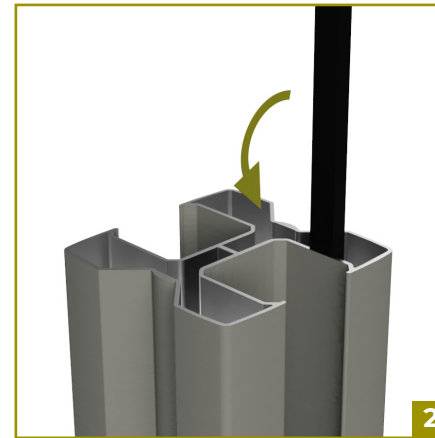
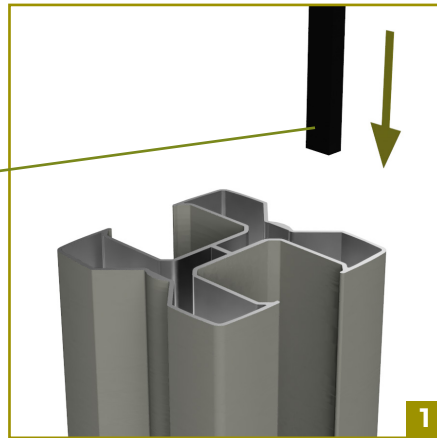
Explanation

4 Temporarily secure the corner post. Stretch a string between the tops of the three posts. This ensures that all the posts are aligned and at the same height. **5** Place the remaining posts and temporarily secure them as well. **6** Now secure all the posts with (fast-setting) concrete. **7** Wait at least 24 hours before placing the boards. Be sure to check the packaging when using fast-setting concrete.

[OPTIONAL] Installation of the cellular rubber strip



DFRT10X6
Cellular rubber strip



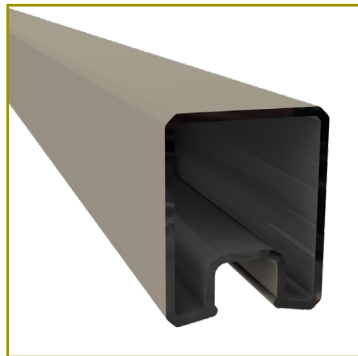
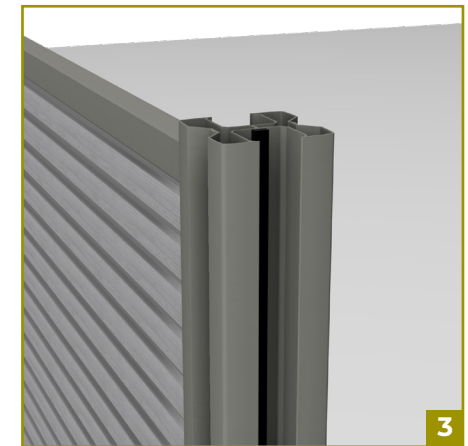
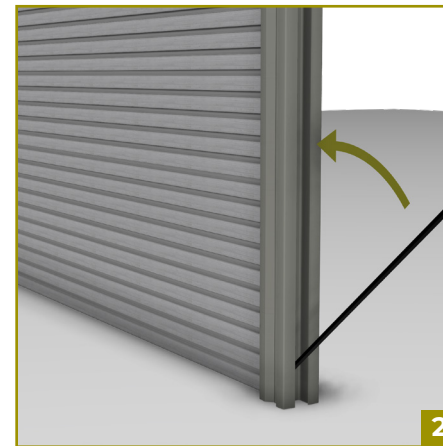
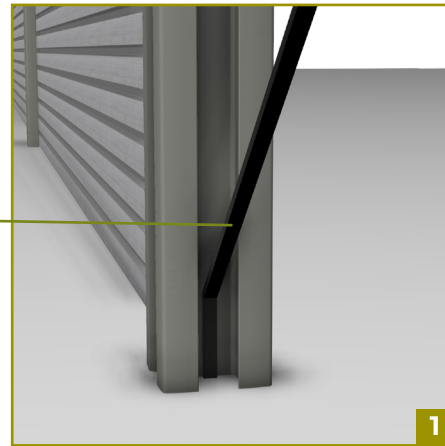
Explanation

Cut the cellular rubber strip to an adequate length. Measure the height of the post above the ground plus about 5 cm. **1** Slide the strip into the side chamber of the post and press it in place. **2-4** Fold the strip over and place it along the length of the groove. Lightly press it down everywhere. **5-6** Cut off the folded part only after the boards have been placed. For the standard post (DF1PA82), always use a strip on both sides of the groove. For other posts (hinge post DF1PA41 and gate post DF1PAG2-82), use only one strip per groove.

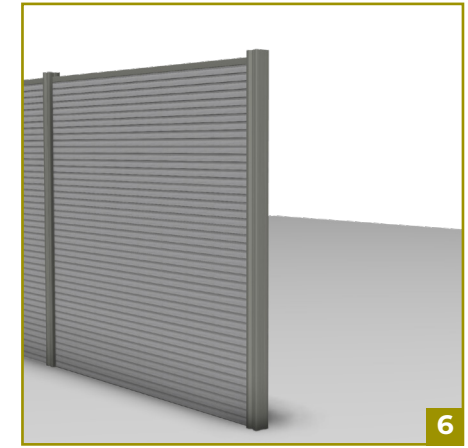
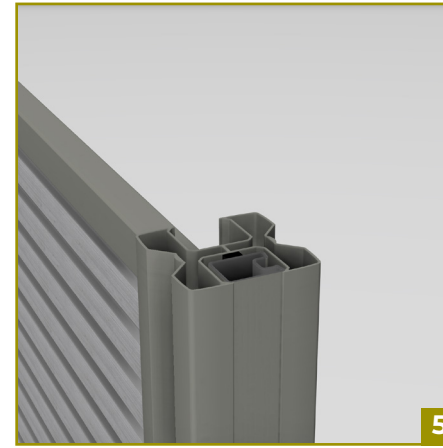
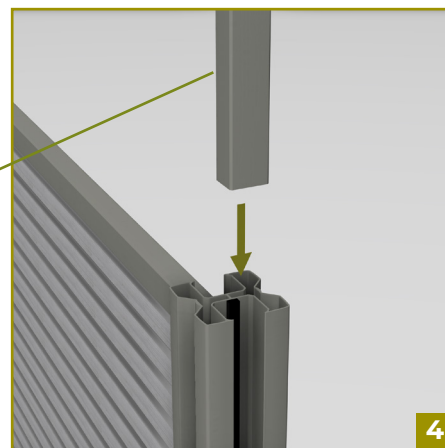
[OPTIONAL] Finishing the end post



DFRT10X6
Cellular rubber strip



DF1UA28
Aluminum top profile



Explanation

1-3 Cut the cellular rubber strip (DFRT10X6) to the correct length and attach it in the center of the groove. If necessary, cut off any excess. Saw the U-profile (DF1UA28) to the desired length
4-5 Then, place the U-profile in the groove and press it down so that the ends align. **6** The end post is now finished. The end post can also be finished by securing the U-profile with screws or with a polymer sealant

