

LIGNODUR
terrafina®
Screen
refugio 2.0

Assembly instructions

LIGNODUR terrafina® Screen refugio 2.0



1. Basic information

Target group for these installation instructions

These assembly instructions are aimed at landscape gardeners, carpenters, joiners and experienced DIY enthusiasts.

Safety obligations when using these installation instructions

Please read the complete assembly instructions carefully before starting the installation. Each person who installs LIGNODUR terrafina® refugio 2.0 needs to have taken note and understood the entire contents of these assembly instructions. Always keep these assembly instructions always close at hand and safe.

Use as directed

LIGNODUR terrafina® refugio 2.0 has been developed for use as a screen. Any other use is considered improper use. All liability is excluded for damage resulting from improper use.

Before use, please check whether LIGNODUR terrafina® refugio 2.0 is suitable for the intended use.

Use as directed also includes compliance with all information in these assembly instructions, especially compliance with the safety instructions and the local building regulation.

Important notes

LIGNODUR terrafina® refugio 2.0 panels can be sawn with conventional woodworking tools.

Due to the high wood composition, LIGNODUR terrafina® is subject to natural expansion.

This is why it is important to allow for expansion in the posts (see point 5.1.). Not observing this point may lead to the material warping. In such cases, warranty claims can no longer be accepted. Möller GmbH & Co. KG does not assume any liability for damage arising from improper use or incorrect assembly.

Check the components that are used for possible faults before mounting. If there are obvious faults or if you establish damage, the components must not be installed. In this case, contact your supplier.

Additional rules and regulations

In addition to the specifications stated in these assembly instructions, the applicable accident prevention regulations related to the workplace and other national and local regulations must be followed. Furthermore, the safety regulations and standards of the respective country where the system is used must be adhered to.

Technical questions?

These assembly instructions refer to standard assemblies. Due to the variety of design options not all details can be displayed here. If you have further questions or require technical advice, please contact our service team using the following e-mail address: terrafina@moeller-profilsysteme.de.

Validity

The assembly instructions have been written on the basis of today's technical knowledge and can be adapted to technical progress at any time without notification. Please check if you have the latest version. An updated version is available at www.terrafina.de.

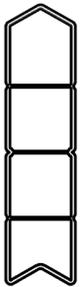
Structural requirements

In order to be able to accommodate the wind loads impacting the system, the foundations must correspond to the load at the installation site and the soil conditions. Because local conditions are different, we are not able to provide general specifications for the specific planned installation. We therefore recommend that you seek advice from an architect or structural engineers when planning the size of the foundation and any necessary reinforcements. The foundations must always be kept free from frost.

The concrete that is used must correspond with the quality class C20/25 in accordance with DIN EN 206-1 / DIN 1045-2. Adhesive anchors should be exclusively used for attaching the supports to the screw on elements.

For example, Fischer Highbond-System FHB II or equivalent. Minimum requirement: strength class A4-70, stainless steel, min. M12, anchor depth min. 120mm. Attention should be paid to the manufacturer's instructions for working with the products.

2. System components



Smooth panel
 45 x 184 mm

coverage: 174 mm
 length: 1730 mm



Inclined panel
 45 x 184 mm

coverage: 174 mm
 length: 1730 mm



Starting post
 120 x 120 mm

length: 1.86 meter



Middle post
 120 x 120 mm

length: 1.86 meter



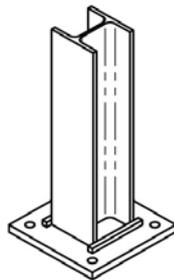
Corner post
 120 x 120 mm

length: 1.86 meter



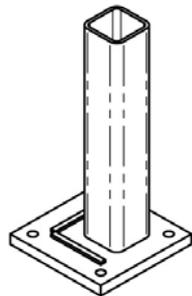
Frame profile
 45 x 40 mm

coverage: 30 mm
 length: 1730 mm



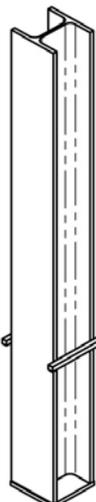
Post supports for screwing on - start / middle post

overall height: 425 mm
 ground plate: 200 x 200 mm
 fastening holes: 4 x Ø 16 mm



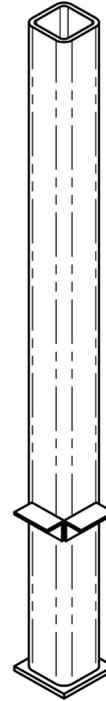
Post supports for screwing on - corner post

overall height: 425 mm
 ground plate: 200 x 200 mm
 fastening holes: 4 x Ø 16 mm



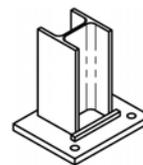
Post supports for concreting - start / middle post

overall height: 758 mm
 height above foundation: 450 mm
 depth of concrete: 308 mm



Post supports for concreting - corner post

overall height: 958 mm
 height above foundation: 650 mm
 depth of concrete: 308 mm

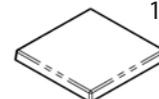


Post supports wall mounting

overall height: 215 mm
 ground plate: 200 x 163 mm
 fastening holes: 2 x Ø 16 mm



Covering joint
 length of profile: 40 cm



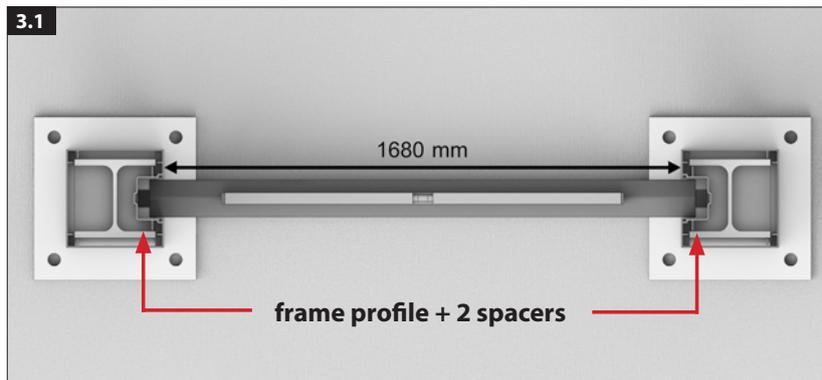
Post cap
 120 x 120 x 10 mm

3. Assembly of the post supports

3.1 Post supports for screwing on

In order to position the post supports, define the distance using a frame profile and the two spacers. For this purpose, the posts must be attached to the post supports. In doing so, ensure a uniform alignment. The spacers should be removed again before mounting the other panels.

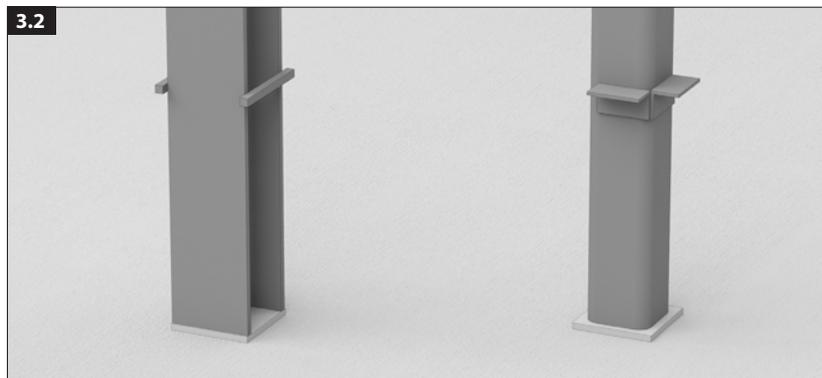
For screwing on



The position of the post supports should be marked on the substrate and fixed in accordance with the instructions of the dowel manufacturer.

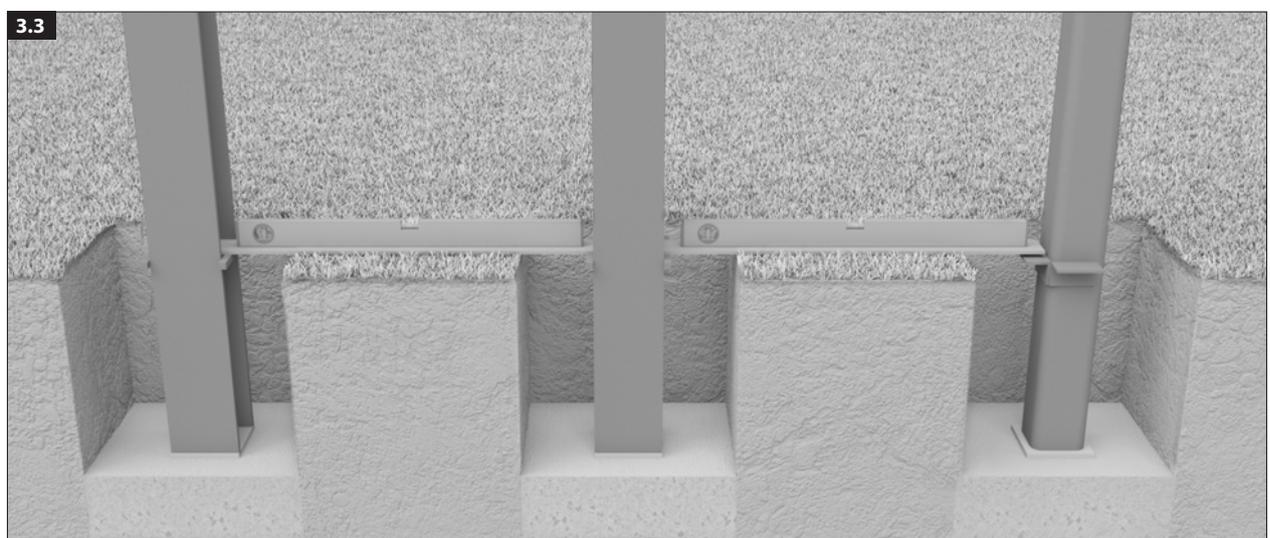
The distance of the outer borehole to the edge of the foundation must be at least 50mm (at reduced load) and 180mm (at maximum load). When tightening the screws, ensure the vertical orientation of the post supports.

3.2 Post supports for concreting

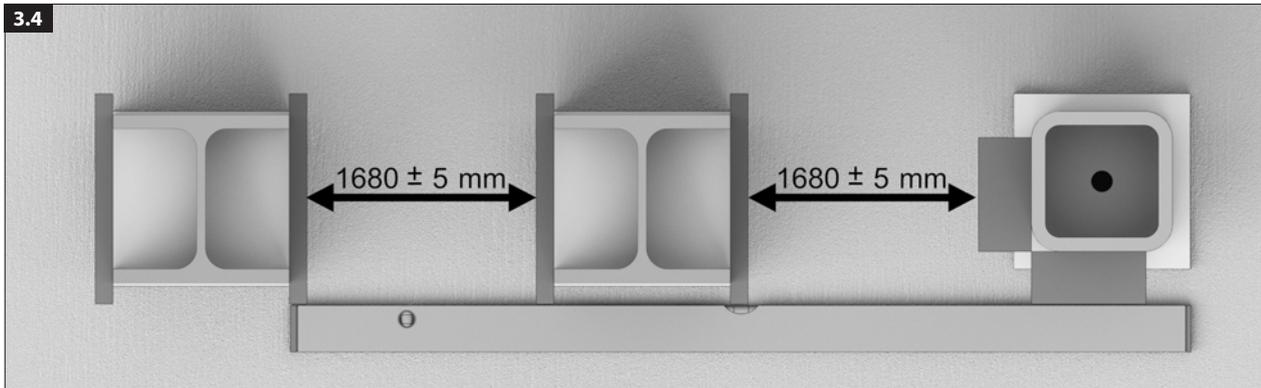


The foundation sizes that are structurally necessary are then dug and if necessary, provided with reinforcements, according to the specifications of the structural engineer. The post supports should be submerged up to the profile layer in the concrete (308 mm). Therefore, the foundation depth must be ≥ 40 cm. The post supports are inserted and aligned with each other (see 3.3 / 3.4).

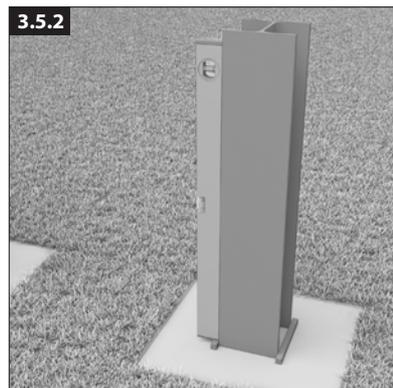
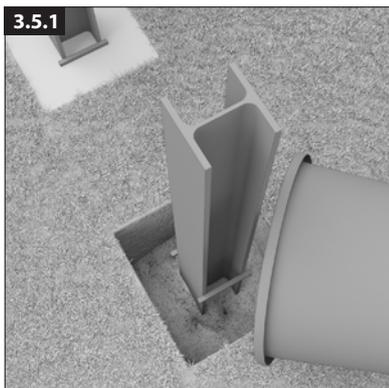
3.3 Alignment of the post supports in terms of height



3.4 Alignment of the post supports, Positioning and distancing



3.5 Filling in the concrete / Vertically oriented assembly



The position of the post supports is fixed with the help of lateral struts (not supplied) and compacted using concrete. In performing this, ensure that the post supports are vertical.

4. Assembly of the posts

4.1 Post length

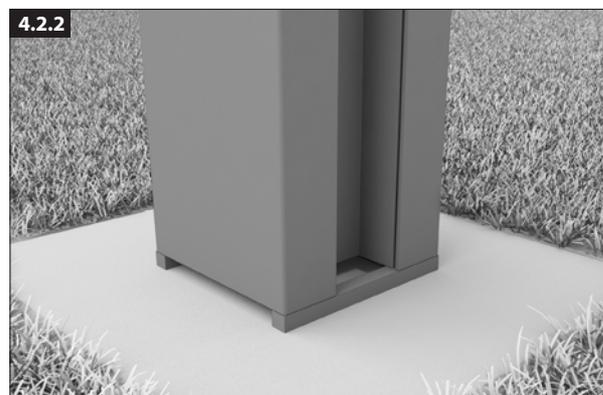
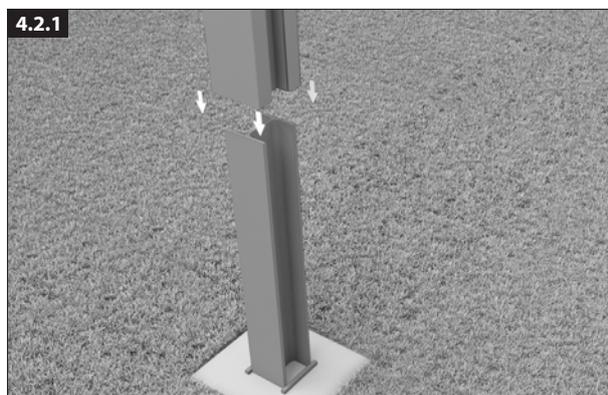
The standard height of the post is 1860 mm. 10 panels and 2 frame profiles can be installed at this height. For other heights, refer to the following table:

| Standard version | | shortened posts | | | | |
|----------------------------|------------|-----------------|-----|-----|-----|----|
| Necessary post height (cm) | 186 | 169 | 151 | 134 | 116 | 99 |
| Filling profile (cm) | 180 | 163 | 145 | 128 | 110 | 93 |
| Number of frame profiles | 2 | 2 | 2 | 2 | 2 | 2 |
| Number of panels | 10 | 9 | 8 | 7 | 6 | 5 |

An additional frame profile can be used for all heights. This increases the length of the filling profiles by around 3cm. The covering joint can be omitted.

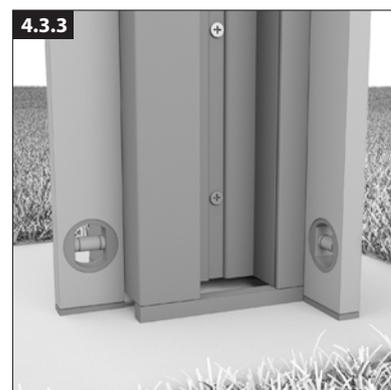
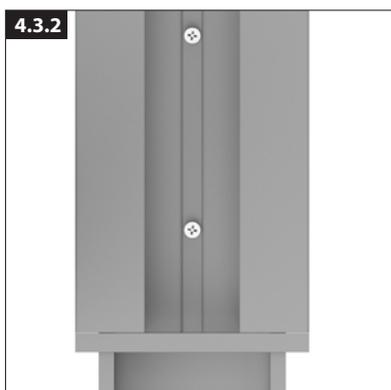
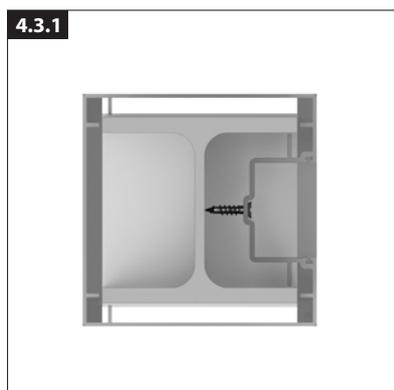
4. Assembly of the posts

4.2 Inserting the posts



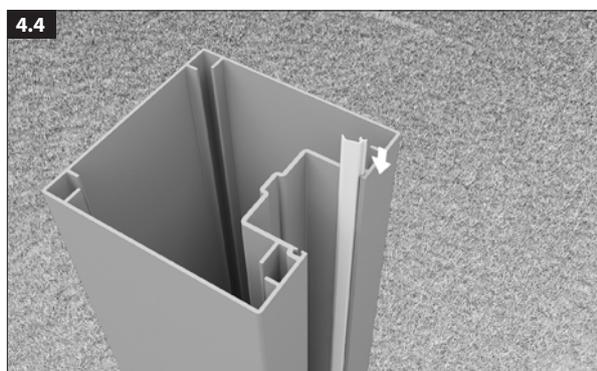
If necessary, the posts are cut to the desired length and pushed onto the post supports.

4.3 Fixing the posts



The post is supported on the post supports with self-tapping screws 4x30 mm. In this case, ensure the vertical position of the post.

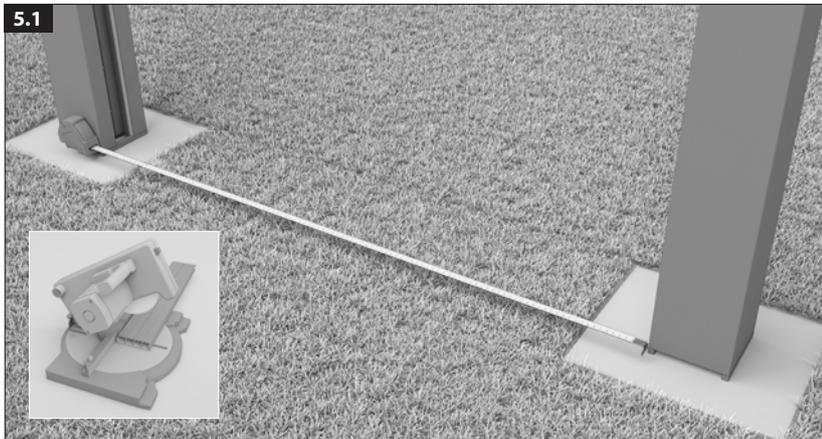
4.4 Inserting into the filling profile



The filling profiles are inserted into the joints. When using a joint covering (see 'Installation of the joint covering'), the filling profile must be shortened to the dimensions indicated in the table.

5. Assembly of frame profiles and panels

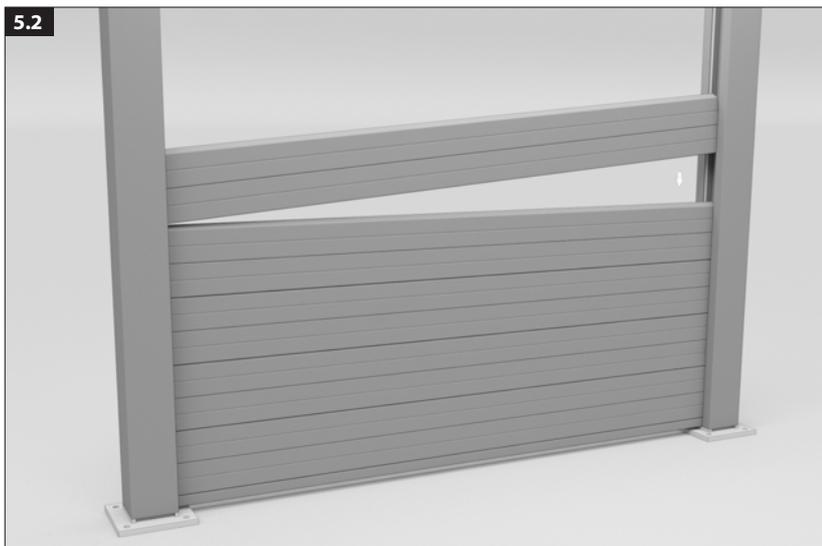
5.1 Checking the clearance



Always start the assembly process with a frame profile. In order that the profiles in the post have sufficient splay to compensate for changes in length, the frame profiles and panels must be 55 mm longer (max.) than the clearance between the posts.

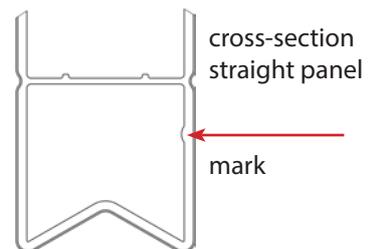
Example:
 Clearance: 1580 mm =>
 Profile length max. 1635 mm.
 If necessary, shorten the profiles accordingly.

5.2 Assembly of the panels

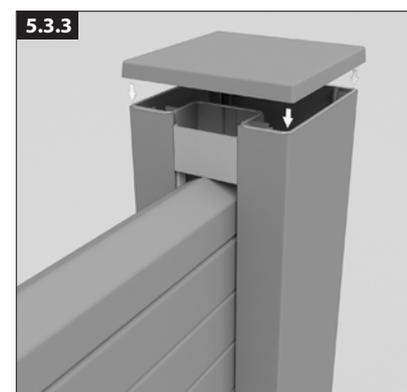
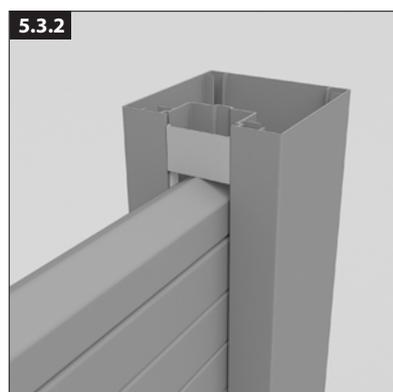
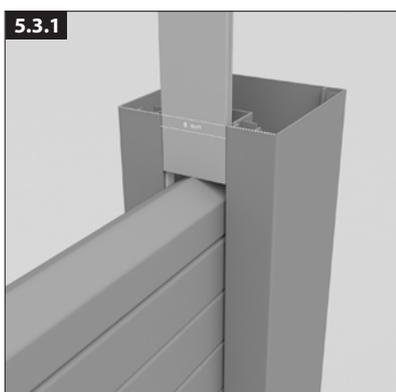


When mounting the other profiles pay attention to equal directions. For this purpose, a mark is made on the straight panels.

In the case of inclined panels, the direction arises as a result of the profile geometry. Complete the assembly with a frame profile.



5.3 Installation of the joint covering and post cap



The joint covering must end 8 mm below the top edge of the posts. Please fix the post cap with a mounting adhesive (not supplied).

6. 6. Wall assembly

6.1 Wall assembly



The post is attached to the post support for wall mounting and screwed through the joint in the wall in the top third section.

In order to ensure the assembly of the post cap, you need a suitable spacer (about 3 mm).

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