

# Assembly instruction

## TerraWood - LUXE

### BPC rhombus plug-in fence



#### General notes:

The width of the self-assembly sets available in the standard dimensions approx. 180x175cm (WxH) can be adjusted by shortening the individual components yourself. If, for example, the width is to be reduced by 90 cm, the Rhombus profiles must be shortened by 45 cm on each side. However, in order to ensure a possible length expansion due to temperature fluctuations, the Rhombus profiles must always have approx. 0.7cm space for expansion within the groove of the aluminum posts. The small expansion of the Rhombus profiles is then compensated by the grooves in the posts.

When installing on soft ground, it is essential to cast the posts in concrete. Concrete = sand-gravel mixture, grain size 0/32 plus cement in a mixing ratio of 3:1. Soil classes 4 - 6 according to DIN 18300 are assumed as foundation soil. Foundation size 40x40x60cm (LxWxD). In case of deviations from the soil class, create the foundations larger. The aluminum posts should be additionally anchored in the concrete. To do this, drill a hole in the post at a depth of about 30 cm and attach a piece of steel wire to it, for example.

**Note:** It is very important to set the posts exactly vertical and at the correct height before you start the installation. This will lay the foundation for an accurate installation and a professional look of your privacy fence. Please also note that the

also note that the distance between the individual posts of 180 cm must be measured within the guide rail (groove) of the posts. The profiles have a length of approx. 179.3 cm in order to be able to compensate for possible vertical dimensional changes of the BPC profiles.

For this system, "long" posts (for casting in concrete) and "short" posts with post holders (for mounting on hard ground) are available. (Post holders are also available separately).

The self-assembly system consists of the following elements:

a) aluminum posts, 68x68mm with 3 grooves (Fig. 2-A) + 2 cover profiles (Fig. 2-B) + plastic cover cap (Fig. 2-C) and pre-mounted spacers of 4cm in the grooves (Fig. 2-D). The length of the posts depends on the desired height of the fence as well as on the chosen method of mounting the posts (with post holders or cast in concrete). The posts can also be used as corner posts. The exposed post grooves can be covered using the supplied cover profiles.

b) Aluminum start & end profile 20x41(34)x1800mm silver or anthracite incl. 2 aluminum tubes each, 40 post spacers, 20 center spacers, 2 mounting clips, 4 screws and 4 washers.

c) BPC rhombus profiles 20x75(68)x1793mm (caramel brown, anthracite, multicolor sand) With the standard size of approx. 180x175cm, the elements, except for the posts and possible post holders, are delivered individually. Since the length of the posts depends on the the ground, the posts are packed separately.

#### INSTALLATION INSTRUCTIONS:

**Step 1:** First place the posts exactly vertically, at the correct height at the correct distance. The standard distance is 180cm and must be measured from the inside of the grooves of both posts. The spacers ( Fig.2-D) must sit on the concrete or the post support. Wait until the concrete has cured before proceeding to step 2. If you are using post supports to install the posts on a hard surface or foundation, you can proceed immediately to Step 2.

**Step 2:** After first temporarily removing the plastic post cap (Please do not lose it!), you can begin assembling the individual components. Slide the aluminum start profile into the post grooves. Then place the two aluminum tubes into the pre-drilled recesses of the aluminum start profile. Now insert the first BPC profile into the post grooves. The two aluminum tubes must be guided through the two holes of the BPC profile. Now place one spacer in each of the grooves of the post grooves and one spacer over the aluminum tubes and slide them down to the BPC profile. Repeat this process until the desired fence height is reached.

**Step 3:** Once the last BPC profile has been installed, the aluminum end profile is inserted into the post grooves. If you want a lower fence height, the aluminum tubes must be shortened so that the remaining piece of the tube can still be inserted into the aluminum end profile. The remaining piece of the tubes can still be inserted into the aluminum end profile. Finally, mount the clips on both sides of the end profiles. To do this, push the clips into the groove of the plug-in fence post so that they lie flat on the end profile. Pre-drill the end profile with a 2.5 mm drill bit and screw the 10mm Phillips screws with a screwdriver through the countersunk holes of the clip into the end profiles. After that you can put the post caps back on again.

