

# ASSEMBLY INSTRUCTIONS

Façade profiles  
50 BONE, 50 MINIBONE



## BEFORE YOU START

- Both 50 **BONE** and 50 **MINIBONE** profiles should be installed **only in vertical direction**. The reason is the lower flexural strength of both profiles (required support distances for horizontal installation  $\ll$  50 cm).
- The TERAFFEST® material is not a structural material and therefore cannot be used for load-bearing constructions. When installing additional accessories on the façade cladding (e.g., lighting, guttering, etc.), they should not be anchored solely to the cladding profiles. Consult a structural engineer for use other than those described in this manual.
- Store on a dry and level surface. Before installation, protect profiles from direct sunlight to prevent uneven colour maturation.
- Do not treat the profile surface with stains, paints, varnishes, oils, or other products unless specifically recommended for composite materials by the manufacturer. Do not use solvents or thinners.
- When working with composite wood, use the same tools as for hardwood, such as a circular saw, drill, cordless screwdriver, measuring tape, level, pencil, rubber mallet, and square ruler. Personal protective equipment must be used when cutting and drilling TERAFFEST® façade profiles. Especially when cutting aluminium profiles, pay attention to eye protection.
- Profiles may have minor dimensional variations. The manufacturing tolerances are as follows: Width:  $\pm 2$  mm, Thickness:  $\pm 1$  mm, Length:  $\pm 10$  mm. Maximum longitudinal deflection: 5 mm per meter of length. Due to temperature fluctuations, TERAFFEST® cladding profiles and trims expand and contract. Ensure that expansion gaps are in according as prescribed.
- This is a natural product, which may exhibit slight colour variations and shading, enhancing its wood-like appearance. These variations do not affect the product's quality or durability. Before installation, the colour of the profiles should be checked, and profiles should be mixed during cladding installation to emphasize their natural character. We recommend ordering all profiles at once to ensure uniformity.
- Installation is possible on U-profiles (**Variant A**) or on rectangular profiles (**Variant B**)

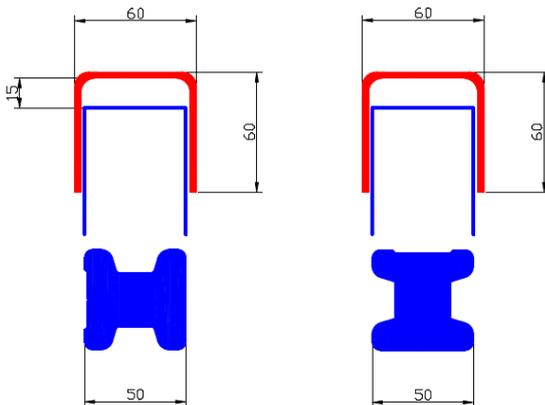


## VARIANT A - INSTALLATION IN U-PROFILES

- The first method of installation is to insert profiles to U-profiles. Such sets can be used as sunshades or as certified balcony infills (only 50 BONE). Installation is only possible in the vertical direction.
- It is necessary to use a U-profile with corrosion protection. Steel profiles with galvanized finish or aluminium profiles are used. For a better visual impression, it is advisable to provide the surface of the profiles with a powder coating in the desired colour.
- It is necessary to use U-profiles with an internal dimension larger than the width of the BONE (MINIBONE) profiles. The recommended U profile for 50 BONE is 60x60x60x3mm. It is possible to insert 50 BONE in both directions.
- The recommended U-profiles for 50 MINIBONE are with dimensions 40x40x40x3mm and 40x60x40x3mm.

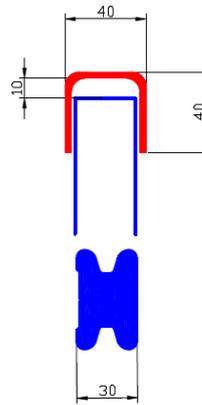
### 50 BONE

U profile 60x60x60x3 mm



### 50 MINIBONE

U profile 40x40x40x3 mm



### 1. Preparation of the lower U-profile

- The bottom of the U-profile must be drilled. This is to prevent water from sticking in it, which could then rise through the wood-plastic surface upwards.
- The drain holes should be maximum 300 mm apart.
- The drilled U-profile is anchored to the wall or to the prepared structure of the balcony posts.

### 2. Preparation of spacers

- Facade profiles must not be inserted into the U-profile tightly to its lower inner surface. The minimum size of the air gap is 10 mm, but it is better to use 15 mm (if it is then possible to safely anchor the sun protection blades).
- Spacers can be prepared from any material.
- After inserting the BONE (MINIBONE) profile into the U-profile and drilling it, these spacers are pulled out and used for the next sun protection blade.

### 3. Preparation of the upper U-profile

- The upper profile should be mounted with a sufficient gap between the edge of the BONE/MINIBONE profile and the inner wall of the U-profile.
- This gap should be 10-15 mm.

### 4. Insertion and screwing of the profiles

- Gradually, the BONE (MINIBONE) profiles are inserted into the lower and upper U-profiles.

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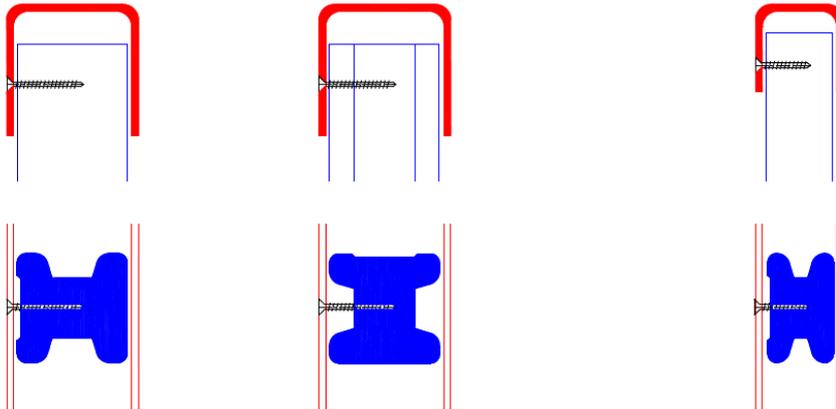
Façade profiles

50 BONE, 50 MINIBONE

- It is highly recommended to use a spacer on the width of the gap, which will ensure the same gap between installed profiles.
- The profiles must be pre-drilled with a 2 mm drill. One screw at the top and one at the bottom is drilled into the prepared holes.

Stainless steel screw A4  
3,5 × 35 mm

Stainless steel screw A4  
3,5 × 25 mm



## UNSUPPORTED DISTANCES OF BONE/MINIBONE PROFILES

	Maximum unsupported profile height	Maximum certified railing height	Maximum certified width of the gap between profiles for the railing infill.
50 BONE	1,2 m	1,1 m	80 mm
50 MINIBONE	0,8 m	-	-

## USE AS BALCONY INFILL

- 50 BONE profiles are certified as railing infill according to ČSN 74 3305. In this application, the gap between the profiles should not exceed 80 mm.
- Requested height of the railing depends on the depth of the free space under the railing.
  - Railing height 900 mm (fall depth max. 3 m)
  - Railing height 1000 mm (fall depth max. 12 m)
  - Railing height 1100 mm (fall depth max. 30 m)

## VARIANT B – INSTALLATION ON RECTANGULAR TUBE PROFILES

In addition to U-profiles, BONE profile as a sun protection blades can be mounted on rectangular tubes 40x40 mm or larger. In this case, it is necessary to drill the entire profile with screws with a length of at least 80 mm.

