

ASSEMBLY INSTRUCTIONS

SUNSHADES

50 BONE, 50 MINIBONE

 **TERAFEST**
by WOODPLASTIC



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BEFORE YOU BEGIN

Installation direction

- The **50 BONE** and **50 MINIBONE** profiles are installed **vertically only**.
- This is due to **lower flexural strength** – when mounted horizontally, **the distance between the supports would have to be less than 50 cm**.

Design constraints

- TERAFFEST® **façade profiles** are not a construction material.
- Consult a structural engineer **for any other use**.

Storage

- Store in a **dry, level, shady place**.
- Before installation, protect the profiles from **direct sunlight** to avoid uneven paint ripening.

Surface and maintenance

- **Do not treat** with stains, varnishes, oils or other products unless they are designed for composites.
- **Do not use solvents or thinners**.

Working with material

- Use common tools like for hardwood: **circular saw, drill, cordless screwdriver, tape measure, spirit level, pencil, rubber mallet and angle**.

Tolerance and appearance

- Manufacturing tolerances: width ± 2 mm, thickness ± 1 mm, length ± 10 mm, max. deflection 5 mm/m.
- Minor **color differences** are natural and **do not affect the quality or durability of the product**.

Mounting variants

- Installation is possible in three variants:
 - A: into U-profiles**
 - B: onto steel profiles**
 - C: onto steel flat profiles**



VARIANT A – INSTALLATION INTO U-PROFILES

Basic principle

- The **50 BONE** and **50 MINIBONE** profiles are only mounted **vertically** in the **U-profiles**.
- This variant is suitable for **sunshades** or as **balcony panels** (certified for **50 BONE** only).
- Use **corrosion-protected U-profiles** – galvanized steel or aluminium.
- For a better look, we recommend a **komaxit coating** in the desired color.

Recommended dimensions of U-profiles

- For **50 BONE** → **60×60×60×3 mm** – allows you to insert a profile in both directions.
- For **50 MINIBONE** → **40×40×40×3 mm** or **40×60×40×3 mm**.
- The internal dimension of the U-profile must always be **larger than the width of the profile** in order to comply with the expansion gaps.

Certified balcony fillings

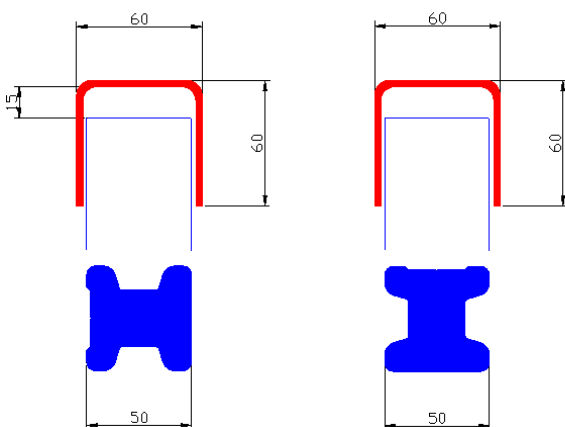
- **50 BONE** profiles are **certified as railing fillers** according to the **ČSN 74 3305** standard.
- **The maximum gap between the profiles** must not exceed **80 mm**.
- The mounting is designed for **vertical installation** of profiles.

Recommended railing heights

- **900 mm** – for a fall depth of up to **3 m**
- **1000 mm** – for a fall depth of up to **12 m**
- **1100 mm** – for a fall depth of up to **30 m**

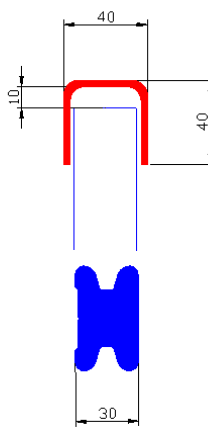
50 Bone

U profil 60x60x60x3 mm



50 Minibone

U profil 40x40x40x3 mm



1. Preparation of the lower U-profile

- Pre-drill to create **drainage holes** to prevent water accumulation – approx. every **30 cm**.
- Anchor the bottom profile to a **wall or supporting structure** (e.g. balcony posts).

2. Spacers

- The profiles must not be inserted tightly – leave an **air gap of 10–15 mm** between the bottom of the U-profile and the profile.
- Spacers can be made of any material and **reused after assembly**.

3. Top U-profile

- Leave a gap of 10–15 mm **between the upper edge of the profile and the inner wall of the U-profile** for dilatation.

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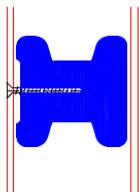
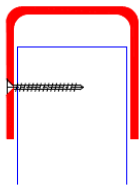
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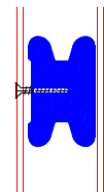
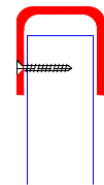
4. Inserting and attaching profiles

- Insert **BONE** or **MINIBONE** profiles into the lower and upper U-profiles one by one.
- For accurate spacing, use a **spacer**.
- Pre-drill the holes **with a Ø 2 mm drill bit** and fasten the profiles **with two screws** – one at the top and one at the bottom.

Stainless steel screw A4
3,5 × 35 mm



Stainless steel screw A4
3,5 × 25 mm

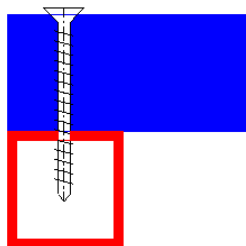
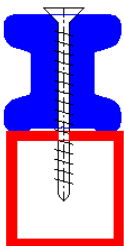


UNSUPPORTED DISTANCES OF BONE/MINIBONE PROFILES

	Maximum unsupported profile height	Maximum certified railing height	Maximum certified width of the gap between profiles for the railing infill.
50 BONES	1.2 m	1.1 m	80 mm
50 MINIBONES	0.8 m	–	–

VARIANT B – MOUNTING ONTO STEEL PROFILES

- Sunshades can also be mounted on **closed steel profiles** with a size of **at least 40×40 mm**.
- In this variant, it is necessary to **drill through the entire sunshade profile** and use **screws with a length of at least 80 mm**.
- This method is suitable for **solid and independent structures** with higher load-bearing capacity.



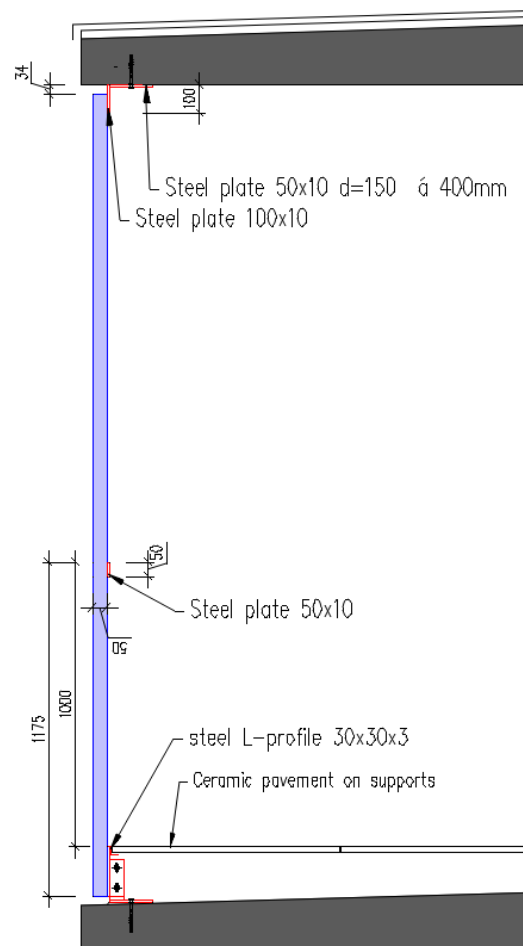
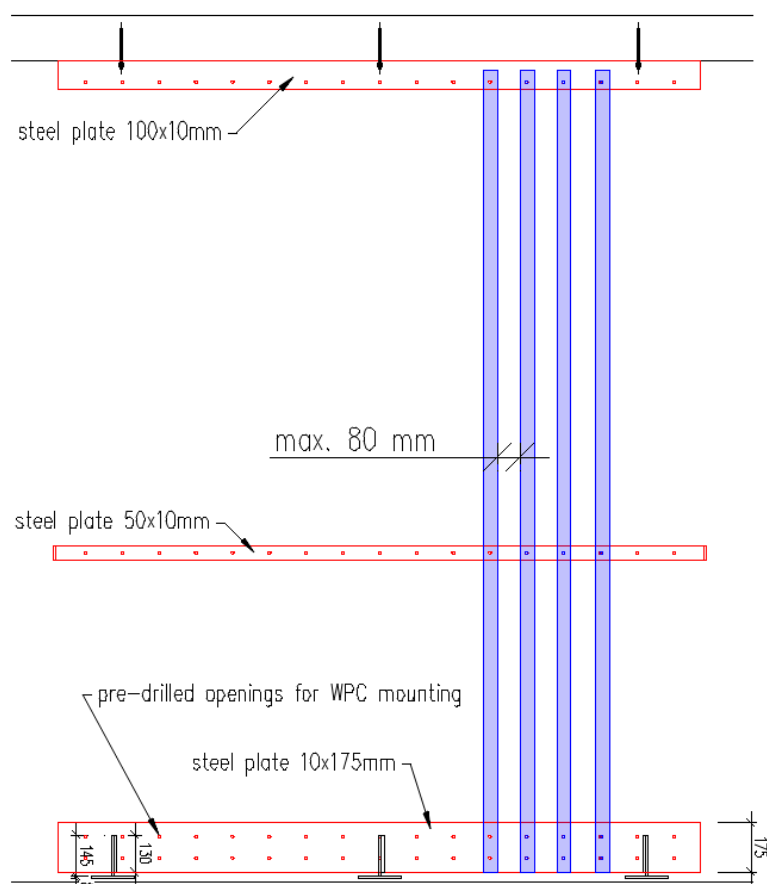
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VARIANT C – MOUNTING ONTO STEEL FLAT PROFILE

- Prepare a steel frame for **50 BONE** profiles.
- Use either:
 - steel box sections **50 × 50 × 4 mm**, or
 - steel flat bars **10 mm** thick.
- At the top and bottom, mount **the L-profiles** to the ceiling and floor, with a height of min. **100 mm**.
- In the middle part, install a strip 50 mm high and 10 mm thick.
- Fasten 50 BONE **profiles to the prepared structure** along the entire height of the balcony field.
- Screw **the 50 BONE** profiles **through with a screw**, the use of safety nuts is **recommended**.
- Keep the space between the max. **80 mm**.



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WPC – WOODPLASTIC a.s., V celnici 1034/6, 110 00 Prague 1, Company ID: 08920354, VAT ID: CZ08920354, phone: 800 720 288, e-mail: wpc@woodplastic.cz, www.terafest.cz; The company is registered in the Commercial Register maintained by the Municipal Court in Prague, file number B 25100.