

ASSEMBLY INSTRUCTIONS

DECKING PROFILES

137 Garden SE



BEFORE YOU START

These instructions

- Before starting the installation, carefully study this installation manual. If you have any questions, contact the manufacturer or your dealer. Further information can be found at www.terafest.cz.
- Failure to follow the instructions in this manual may affect the warranty.

Product Purchase

- Even though the protective layer of the terrace board is made of 100% polymer, minor colour deviations and shades may occur, which create a natural look but do not reduce the quality and lifespan of the product in any way.
- Order boards for the entire terrace at once.
- The appropriate clips must be ordered for the selected joist.
- When laying the boards, it is advisable to check the colour and, if necessary, mix the boards on the terrace to emphasize the natural character of the terrace.

Fire Classification

- 137 GARDEN SE terrace profiles can be safely used on terraces of family houses (ground floor and upper floors).
- They are classified in Reaction to Fire Class Efl. For higher buildings, consultation with a fire specialist and installation in accordance with the Fire Safety Solution is necessary.

Construction Limitations

- TERAFEST® products made of composite wood are not a construction material and therefore cannot be used as a material for load-bearing structures, e.g. for balconies, raised terraces and hatches. For these cases, it is necessary to make a load-bearing structure under the terrace from another material. Railings, pergolas, pool coverings and similar elements cannot be anchored only to terrace boards or composite wood supports.
- Accessories (railings, lighting, downpipes, etc.) must not be anchored only to terrace profiles.

Tolerances and Thermal Expansions

- Production tolerance: width ± 2 mm, thickness ± 1 mm, length ± 10 mm.
- Maximum longitudinal deflection: 5 mm/m.
- Profiles and strips expand and contract with temperature → always observe the specified expansion joints.

Storage and use

- GARDEN SE terrace boards are two-sided, so store them before installation on a dry and level surface so that the selected visible side of the board is protected from sunlight and boards bending.
- TERAFEST® products are mainly intended for outdoor use. Terafest® SE products with a protective layer are also suitable for covered areas, outdoor kitchens and winter gardens. The protective layer is stain-resistant and easy to maintain...



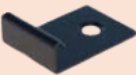



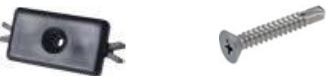
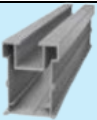





Tools

- Use the same tools as for hardwood: **circular saw, drill, cordless screwdriver, tape measure, spirit level, pencil, rubber mallet, and angle.**
- Wear respiratory protection and safety goggles when sanding and cutting.

Maintenance

- Do not treat the surface of Terafest® SE terrace boards with stains, paints, varnishes, waxes, oils or other similar products, unless recommended by the manufacturer for composite materials. Avoid the use of aggressive solvents and thinners!
- Before using the pressure washer, check on the profile sample that the selected configuration will not damage the surface of the TERAFEST® profiles.
- Damage caused by inappropriate or inadequate maintenance is excluded from the warranty conditions.

APPROXIMATE MATERIAL CONSUMPTION

	Recommended product	Illustrative photo	Quantity per 1 m2 Private spaces Distance between joists 350mm	Quantity per 1 m2 Commercial Spaces Distance Between joists 300mm
Terrace profile	137 GARDEN SE		7 lm/m2	7 lm/m2
Mounting on a WPC joist	WPC joist 50x50 mm		2,5 lm/m2	2,9 lm/m2
Start clip	Clip Start A2 - black		According to the size and shape of the terrace and the orientation of the planks in the terrace	
Fixing of terrace profiles	ABS Clip plastic Inox screw A4 3,5 x 35 mm		19 pcs/m2	21 pcs/m2
Mounting on an AL joist with pre-drilling	AL joist 30		2,5 lm/m2	2,9 lm/m2
Start clip	Clip Start A2 - black		According to the size and shape of the terrace and the orientation of the planks in the terrace	
Fixing of terrace profiles	ABS Plastic clip Inox screw A2 TEX 3,9 x 25 mm		19 pcs/m2	21 pcs/m2
Mounting on Smart AL joist without pre-drilling	AL-S joist 30 (AL-S joist 50) (AL SMART 40 or 75)		2,5 lm/m2	2,9 lm/m2
Start clip	AL-SMART Start clip 7 mm		According to the size and shape of the terrace and the orientation of the planks in the terrace	
Fixing of terrace profiles	AL SMART standard clip		19 pcs/m2	21 pcs/m2
Finishing profile	Fascia 70 SE		Depending on the length of the edged sides of the terrace.	
Finishing profile	Angel Fascia 50 SE			
Fascia installation	Inox screw 4x60 mm			

SUBSOIL PREPARATION

Terrace planning

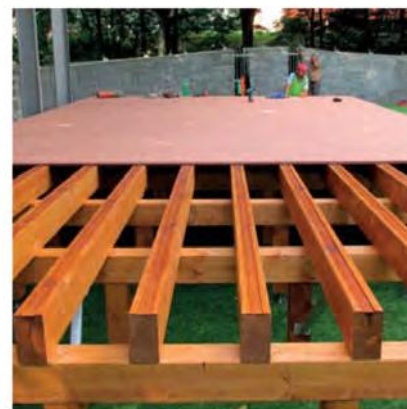
- When planning and preparing the subsoil of the terrace, always remember the necessary height for the supporting structure, which will ensure ventilation of the terrace and, if necessary, the slope of the subsoil, which will ensure sufficient water drainage.
- In the case of impermeable subsoil, it is necessary to create a slope of 1 to 2% from the house and provide drainage.
- We recommend installing terrace boards at a slight slope of 0.5 to 1%, which will ensure natural drainage of rainwater from the terrace board and facilitate maintenance.
- If the terrace is improperly sloped or insufficiently drained, then water can get into the chambers of the board, which can cause the board to swell, warp, or otherwise damage it.

Types of bases

- Recommended types of subsurface surface: sufficiently sloped concrete slab, compacted gravel-sand bed with drainage, preferably supplemented with concrete supports (e.g. curbs), sloped waterproofing (consult with the insulation supplier), metal or wooden load-bearing structures on ground screws
- Joists and terrace boards made of composite wood must not stand permanently in the water and must be oriented and sloped so that they do not obstruct the drainage of water from the space under the terrace.
- The base should be sufficiently stable and protected against erosion by flowing water.
- If there is a risk of vegetation growing from the subsoil, the terrace must be protected with a sufficiently durable geotextile.

Height of the substructure

- The air gap between the bottom surface of the board and the substrate must be at least 30 mm in the entire area for ventilation.
- If sufficient water drainage from the space under the terrace cannot be guaranteed, the required air gap is 90 mm.



Distances between supports under the joists.

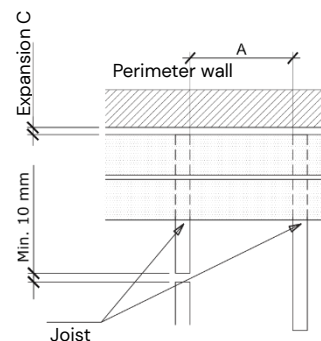
The distance between the supports (concrete curbs, adjustable pedestals, supporting structure) under the joists depends on the type of joist selected

Joist	Dimensions (height x width)	Unsupported part	Maximum overhang
WPC 50x50 mm	50x50 mm	300 mm	50 mm
WPC 50x30 mm	30x50 mm	150 mm	30 mm
AL joist 30	30x35 mm	500 mm	100 mm
AL-S joist 30	30x35 mm	500 mm	100 mm
AL-S joist 50	50x55 mm	750 mm	150 mm
AL SMART 25	25x35 mm	400 mm	50 mm
AL SMART 40	40x40 mm	600 mm	100 mm
AL SMART 70	75x40 mm	1000 mm	200 mm

INSTALLING THE JOIST

Laying of the joist

- **WPC joist TERAFFEST® and AL joist 30** are laid on the subsoil with the groove (recess) up, **smooth side down**.
- The maximum distance (**gap A**) between the joists is **350 mm for home use, 300 mm for commercial use**. **Do not exceed** the stated values, otherwise **any complaint will not be accepted**.
- In places where you expect a **higher load** (e.g. the area at the entrance to the terrace, whirlpool) and in projects with the assumption of a more intensive load (public areas near shopping centres, swimming pools...) it is necessary **to thicken the joist more**.
- If the board with the joist will form an **angle of less than 90°** when viewed from above, **the distance between the joist is reduced** so that the length of the unsupported part does not exceed the above values.
- For a larger or more complex terrace, prepare a laying plan before you start laying, where the composition and lengths of the individual planks and supports are marked. **Each segment** of the terrace board (even short pieces) must be supported **by at least three joists**.
- If the boards are used on a footbridge or sidewalk, they should, if possible, be laid perpendicular to the direction of movement of people, and the joists should therefore be parallel to this direction. This applies especially to commercial areas.
- Leave an expansion gap of at least 10 mm **between the adjacent joists**, an expansion and ventilation gap of at least 10 mm **between the end of the joist and the wall or other fixed obstacle**.
- Use shims or adjustable pedestals to compensate for height differences under the joists.
- We cut the joists to length just before laying the last terrace board.



Fastening the Joists to the Base

- For the 137 GARDEN SE **terrace boards**, we recommend **anchoring the Terafest® WPC joists to the ground**.
- For anchoring to concrete or concrete curbs, use, for example, anchor bolts to concrete, so-called turbo screws or dowel screws. The distance between anchoring is max. 1000 mm.
- ZN Anchor Bolt 7,5 x 72 mm

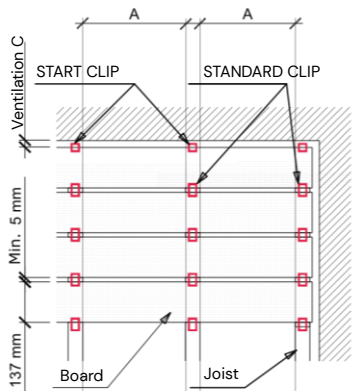
Double Joist Construction

- In cases where it is not possible to anchor the base frame, it is advisable to consider a so-called double frame construction using aluminium joists. This ensures greater rigidity of the terrace's base structure and reduces the consumption of pedestals (up to three times).

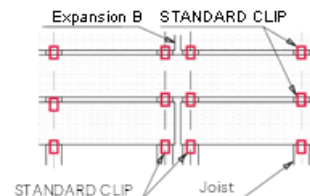


INSTALLATION OF TERRACE PROFILES

Length of planks



- If the shape and location of the terrace allow it, cut the boards to length after installation.
- It is not recommended to overhang the board over the joist (max. unsupported overhang 50 mm).
- The minimum **expansion gap C** between the plank and the solid wall is **at least 10 mm**.
- The minimum **expansion gap B** between the connected boards is **3 mm**.
- **To connect** the terrace boards, use **2 CLIPS with 2 parallel joists**. The distance between parallel joists is 10 to 50 mm.
- Each **segment** of the plank should be **supported by three joists**



First profile

- We start laying from the place where we want the board to be full width, e.g. from the edge of the pool, from the stairs, from the wall of the house, etc.
- Clips allow installation in both directions from the first plank.

Direction of laying planks

- We recommend **checking/following the direction of laying the boards**, which are always sanded in one direction, can be identified by the marking (arrow) on the underside of the boards.
- The reversely oriented plank in the terrace creates the impression **of a different colour scheme** that will unify for a long time.

Anchoring planks

- Each crossing of the board and the joist must be secured by clips.
- Insert the clips into the groove between the two boards and anchor them to the joist with a screw. We **recommend pre-drilling the screw hole**.
- For WPC joists, we will use a drill with a diameter of 1.5 mm smaller and for AL joists 1 mm smaller.
- **AL-S and AL SMART joists** in combination with AL SMART Standard clip allow **drill-free mounting**.
- When tightening clips, use an adequate **torque**, maximum **4 Nm**. Tightening with a hand screwdriver is strong enough.
- **KLIP START** black and **KLIP SMART start** are designed for anchoring the outer boards. It is used to attach the first and last terrace board. If the construction situation does not allow it, for example, the last terrace board at the wall can be attached to the joist with a screw.
- Place the screw at least 20 mm from the edge of the profile and, if possible, outside the cavity. The screw hole should always be pre-drilled.



Profile assembly procedure 137 GARDEN SE

COMPLETION OF ASSEMBLY

- We recommend cutting the overlaps of the planks only after the installation of all planks has been completed due to the expansion of the composite material
- To cover the supporting structure, the edges of the terrace can be lined with finishing strips.
- A ventilation gap of at least 5 mm must be maintained between the finishing strip and the surrounding terrain, in cases where this cannot be guaranteed, for example in the case of a flower bed or grassland, a 5 mm wide ventilation gap must be created between the planks and the finishing strip.
- Do not cover the finishing bar with soil. If the terrace is embedded in the surrounding terrain, it must be separated from the surrounding soil, for example by concrete or other curbs with a ventilation joint between the curb and the 10 mm rail/plank, or in another suitable way.
- Use stainless steel screws to attach the finishing profiles, e.g. 4 x 60 mm.
- Finishing profiles are caught with a screw in the middle of the terrace board approx. 10 mm from the top edge.
- The screw location must be **pre-drilled along the entire length of the screw** (e.g. when using a 4 x 60 mm screw with a **3 mm diameter drill bit**).
- Screw the rail every approx. 400 mm, shorten the distance if the load is heavier or in the case of bent rails.
- If necessary, the finishing profiles can be shaped after heating.

MAINTENANCE

Treatment after installation

- Sweep the terrace and rinse it with a stream of water, then remove excess water with a rubber squeegee. It is important to wash all dust off the surface to reduce the occurrence of so-called water dust stains (see below).

Preventive measures

- With decking boards, it is particularly important to ensure easy water drainage and ventilation of the terrace, so make sure that the joints between the boards remain free of dirt. Remove fine dust, leaves, pine needles, etc. from the terrace by sweeping or rinsing with water.
- Wash the entire terrace with clean water at least twice a year (preferably in spring and autumn). If necessary, the surface of the boards can be brushed with a harder rice brush. Remember to always brush the boards in a longitudinal direction. Finally, rinse the entire terrace with clean water and wipe it down with a rubber squeegee.
- Try to avoid contamination from oils and fats and scratches from furniture. Remove dirt and stains as soon as possible.
- Avoid direct contact between the decking and open flames and protect it from hot coals. If you have a fireplace or barbecue on your decking, we recommend installing a non-flammable mat underneath.

Removing dirt and stains

- Avoid using aggressive solvents and thinners. Never treat the surface of TERAFFEST® decking boards with stains, paints, varnishes, waxes, oils or other similar products unless they are approved by the manufacturer.
- Use of a pressure washer – when maintaining your terrace, you can use a high-pressure cleaner with a pressure of up to 80 bar with caution. Keep the nozzle at a constant distance of approx. 400 mm from the boards and proceed evenly. A surface cleaner that prevents water splashing is a suitable accessory. Never use a rotating nozzle.

Table 1 – Procedures for removing common dirt and wear from TERAFFEST® terraces

	Cause and origin	Method of removal
Dust and dirt	Dust and ash in the air, etc.	Use common household cleaning products – soap (or special products for WPC terraces), brush with a medium-hard brush in the direction of the boards and rinse with water, wipe with a rubber squeegee
Coloured stains	Red wine, concentrated fruit juices, etc.	Rinse the surface of the decking boards with clean water, then brush in the longitudinal direction and rinse again with water, wipe with a rubber squeegee.
Grease stains	Oils, fats, greasy sunscreen, barbecue stains, etc.	Wipe off the grease with a dry cloth, then use a degreaser (detergent, soap or a special product for WPC decking) and a brush to wash the stain, then rinse again with clean water. The rest of the stain will disappear on its own within a few weeks due to the effects of UV radiation and rain.
Stubborn stains	Stains from mould, fungi, moss, leaves and other organic material	You can use cleaning agents containing chlorine, such as SAVO, Cilit Bang, etc. Before use, soak the decking and surrounding area thoroughly, apply the cleaner and leave it to work, then rinse the treated area with plenty of water. Always follow the instructions and safety precautions on the cleaner packaging.
Water dust stains	These stains occur in areas partially covered by a roof or furniture.	If stains form, simply rinse the entire terrace with clean water. Water dust stains cannot be completely prevented. On unprotected areas exposed to sun and rain, this phenomenon is less noticeable and will disappear over time.
Yellowing of the surface of the boards	Caused by the maturing of the wood component	This is a natural process of ageing of the surface of the boards after exposure to sunlight and water. The associated yellowing of the surface will disappear over time. The process can be partially accelerated by frequent rinsing with water.
Surface scratches and burnt areas	Movement of people and furniture on the terrace Charcoal from the barbecue, cigarettes	Brush the surface of the decking boards with a medium-hard brush in a longitudinal direction and rinse with water. If necessary, you can use abrasive fleece on surfaces without a protective layer. Surfaces with a protective layer cannot be sanded.

WARRANTY

Warranty period

- The extended warranty on TERAFFEST® products for up to 25 years, see details below, is valid for all composite wood products against wood-destroying fungi, rot and insects under standard conditions. The extended warranty also applies to TERAFFEST® SE products with a 100% polymer protective layer, which guarantees high colour fastness. For all other cases, the basic warranty below applies.
- We will replace damaged products under warranty. If the product is no longer manufactured, it will be replaced with a similar product. No further financial or other compensation can be claimed under this warranty. Installation and all other work and costs associated with replacing TERAFFEST® profiles are excluded from the warranty.

WARRANTY PERIOD Basic / extended	FOR DOMESTIC USE	FOR COMMERCIAL USE
	TERAFFEST®	5 years / 25 years
TERAFFEST® SE	2 years / 15 years	2 years / 5 years

The warranty does not cover the following:

- Colour fastness – TERAFEST® products have UV protection. However, these are products with a high wood content, and therefore colour variations may occur over time because of uneven exposure to UV radiation and moisture. TERAFEST® products with a 100% polymer protective layer are guaranteed to retain their colour perfectly.
- Maturation of the wood component – in products without a protective layer, the colour matures in the first weeks or months after installation, depending on the intensity of sunlight and rainfall. This is due to the leaching of tannin from the wood component in TERAFEST® material, which consists of wood (60%) and HDPE (40%). Lignin is a natural component of all wood species. Due to its leaching, which is caused by water and UV radiation, a colour change, usually with a yellow tinge, occurs in the first weeks or months. Over time and depending on weather conditions, this colour change will disappear.
- Water dust stains – these stains occur in areas with varying humidity (on partially covered terraces in the transition area between the covered and uncovered areas of the terrace, around garden furniture, under eaves, etc.) and due to the evaporation of water
- from the surface of the boards. As the rainwater on the terrace dries, tiny particles of dust also dry.
- Occurrence of static electricity – under certain conditions, people walking on a terrace made of TERAFEST® material may experience static electricity discharges. This is a common physical phenomenon occurring in most materials containing plastics. The polarity and strength of the electrostatic charge vary depending on the types of materials in contact (footwear, clothing), surface roughness, temperature and other circumstances. This phenomenon is not very predictable. If at all, static electricity on TERAFEST® terraces usually occurs in windy weather and at low relative humidity. The intensity varies depending on the climate and age of the terrace. The occurrence of static electricity on TERAFEST® terraces does not pose any health risks and is not a valid reason for complaining about WPC material.
- Normal surface contamination and wear and tear caused by insufficient or improper maintenance – for example, marks from high-pressure washers, stains from flowerpots, heavy terrace furniture and other accessories, see the other side of the document.
- Problems arising from poor sub-base preparation and inadequate drainage, e.g. sub-base settlement under the decking.
- Failure to follow the installation instructions – TERAFEST® products that have not been installed in accordance with the installation instructions supplied with the material. The warranty also does not apply to products that have been used for purposes other than those specified in the installation instructions.

Release date 26/11/2025

WPC – WOODPLASTIC a.s., V celnici 1034/6, 110 00 Prague 1, Czech Republic, Company ID: 08920354, VAT ID: CZ08920354, phone: +420 800 720 288, 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.