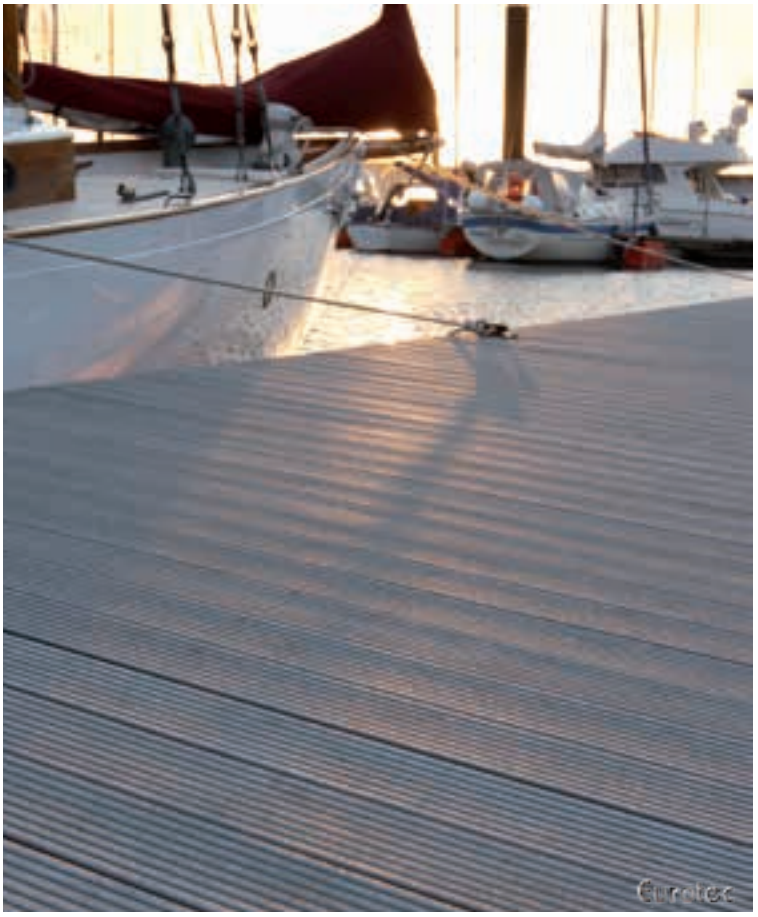
Deck Construction for Gardens

Deck boards

Eurotec®
... living with nature


Model Foto: Colourbox.com



Overview of timber types*

A timber deck matches any ambience. Whether they are left natural and greying or are treated with care products: they lend a certain proximity to nature or even a sense of urban chic, and always a sense of well-being.

As well as a suitable fastening system, above all good planning and professional assembly are essential for long-lived, low-maintenance deck construction. Not all timber is the same: as well as aesthetics and price, it is advisable to weigh up the technological properties against one another. A timber with very high durability and an astoundingly beautiful exterior can, for example, have only moderate dimensional stability and may not be suited for indirect, hidden fastening. This overview of the most common deck timbers might assist you in your considerations.

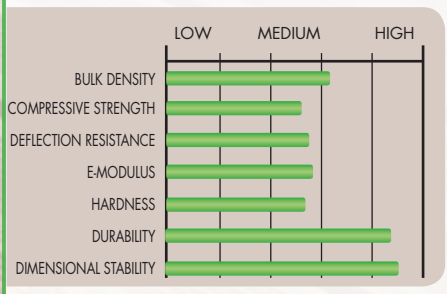
Glossary

- E-modulus (modulus of elasticity) – resistance of a material to elastic deformation. The higher the Young's modulus, the stiffer the component. This overview quotes the Young's modulus as measured parallel to the grain.
- Durability class – indication of the natural durability of the heartwood with respect to fungus, from 1 (very durable) to 5 (not durable).
- Dimensional stability – characteristic of the timber not to warp, twist, etc. due to swelling/shrinkage.

*Solid-timber deck boards do not form part of our product range. This brief overview represents a planning aid. All information without guarantee.
For more timber types, please visit **www.e-u-r-o-tec.de**.

Thermo Ash

Fraxinus spp.



General details:
- **Origin:** Central and Eastern Europe, North America
- **Colour:** Dark brown; also greying as untreated timber
- **Durability class:** 1–2; untreated: 5
- **Properties:** Low swelling and shrinkage, excellent dimensional stability, thermal treatment leads to reduction in strength and elasticity and causes the surface to become brittle.

Application:
Deck construction, parquet, floors, garden furniture, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:
- Centre distance in substructure: max. 50 cm
- Joint width between the boards: 4 to 6 mm
- Spacing between the butt joints: 3 to 4 mm

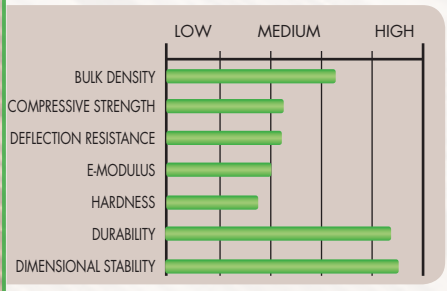
Fastening recommendation:
Use Thermofix screw with drill point for the deck glider (brittle surface!).
For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ No erosion
+ Low swelling and shrinkage
+ Very good dimensional stability
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry

– *Surface made brittle by thermal treatment*
– *Not for structural applications*
– *Moderate hardness*

Thermo-Beech

Fagus sylvatica



General details:
- **Origin:** Central and South-Eastern Europe
- **Colour:** Dark brown; also greying as untreated timber
- **Durability class:** 1–2; untreated: 5
- **Properties:** Low swelling and shrinkage, excellent dimensional stability, thermal treatment causes reduction in strength and elasticity and makes the surface brittle, plain texture.

Application:
Deck construction, parquet, floors, worktops, sometimes as a substitute for tropical timber, not to be used for structural applications.

Installation instructions:
- Centre distance in substructure: max. 40 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

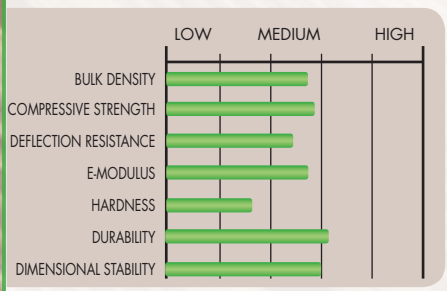
Fastening recommendation:
Use Thermofix screw with drill point for the deck glider (brittle surface!).
For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ No erosion
+ Low swelling and shrinkage
+ Very good dimensional stability
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry

– *Surface made brittle by thermal treatment*
– *Not for structural applications*
– *Moderate hardness*

Siberian Larch

Larix sibirica



General details:
- **Origin:** Western and Southern Siberia, Mongolia
- **Colour:** Yellowish (European Larch: yellowish to reddish-brown)
- **Durability class:** Varies from 1 to 4 depending on where it is grown
- **Properties:** Very narrow rings, giving it a high wood density for softwood, high elasticity, low swelling and shrinkage, good to satisfactory dimensional stability, predominantly knot-free, low resin content, straight-grained texture.

Application:
Deck construction, façades, solid-wood floorboards, window frames, fencing, approved structural timber.

Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

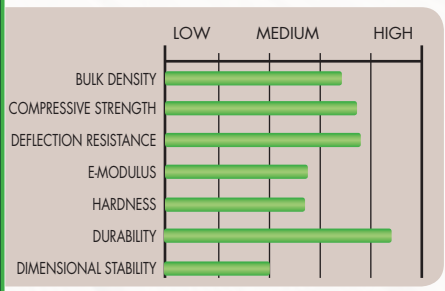
Fastening recommendation:
For direct fastening: Terrassotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles.
Pilot-drilling with drill stop recommended.

+ Low swelling and shrinkage
+ Predominantly knot-free
+ Approved structural timber

– *Resin bleed possible*
– *Often originates from overexploitation, so questionable as a substitute for tropical timber (use only certified timber wherever possible)*
– *Moderate hardness*

Overview of timber types*

Robina, False Acacia
Robinia pseudoacacia



General details:
- **Origin:** North America, also cultivated in Europe since the 17th century (not to be confused with Acacia)
- **Colour:** Yellow-green to olive brown, darkening to golden brown
- **Durability class:** 1–2, most-durable domestic timber
- **Properties:** High swelling and shrinkage, satisfactory to moderate dimensional stability, high strength and hardness, distinctive texture.

Application:
Deck construction, window frames, playground construction, fencing, excellent structural timber for outdoor use, sometimes used as a substitute for tropical timber.

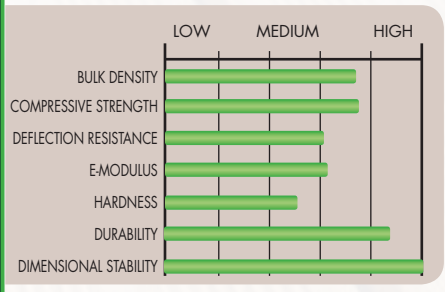
Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ High strength
+ High hardness
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry

– *Moderate dimensional stability*

Merbau
Intsia spp.



General details:
- **Origin:** Southeast Asia, trade name encompasses various species
- **Colour:** Light brown to reddish brown, darkening to brown to dark copper brown
- **Durability class:** 1–2
- **Properties:** Very low swelling and shrinkage, excellent dimensional stability, high strength and hardness

Application:
Deck construction, window frames, parquet, stairs, furniture

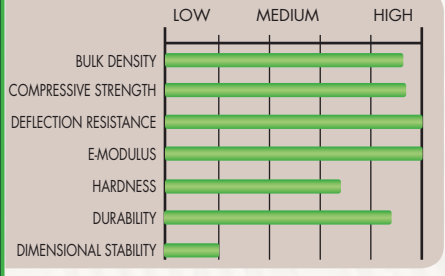
Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 4 to 6 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ High strength
+ High hardness
+ Low swelling and shrinkage
+ Exceptionally good dimensional stability

– *Possible erosion of constituent substances in the timber*
– *Originates almost exclusively from overexploitation (certified timber barely available)*

Massaranduba
Manilkara spp.



General details:
- **Origin:** Northern to central South America, trade name encompasses various species
- **Colour:** Meaty red colour, later darkening to dark brown
- **Durability class:** 1–2
- **Properties:** High swelling and shrinkage, satisfactory to moderate dimensional stability, extremely high strength, high hardness, homogeneous texture.

Application:
Deck construction, floors subject to heavy loads, noise barriers and privacy screens, fencing, structural timber, sometimes used in water engineering.

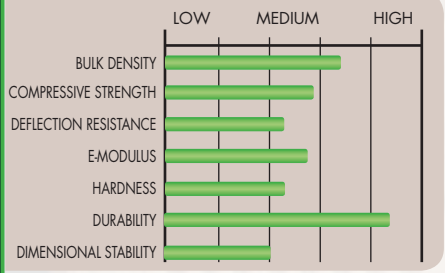
Installation instructions:
The installation is extremely dependent on the timber's moisture level. The wood moisture must always be determined before installation. Ask your timber supplier for more information.

Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ Extremely high strength
+ High hardness

– *Extremely low dimensional stability*
– *Often originates from overexploitation (use only certified timber wherever possible)*
– *We consider permanent, secure fastening to be highly critical*

Kapur
Dryobalanops spp.



General details:
- **Origin:** Southeast Asia, trade name encompasses various species
- **Colour:** Orange to reddish brown, darkening to brown
- **Durability class:** 1–2
- **Properties:** Moderate to high swelling and shrinkage, satisfactory to moderate dimensional stability, homogeneous texture.

Application:
Deck construction, fencing, structural timber

Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

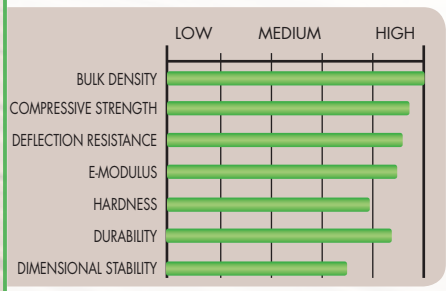
Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability

– *Possible erosion of constituent substances in the timber*
– *Often originates from overexploitation (use only certified timber wherever possible)*
– *Moderate hardness*
– *Moderate dimensional stability*

Overview of timber types*

Ipé, Lapacho
Tabebuia spp.



General details:
- **Origin:** Northern to central South America, trade name encompasses various species
- **Colour:** Light brown to light yellowish brown, later darkening to brown to olive brown
- **Durability class:** 1–2
- **Properties:** Moderate to high swelling and shrinkage, good dimensional stability, extremely high strength, very high hardness, homogeneous texture.

Application:
Deck construction, bridge construction and shipbuilding, floating jetties, fencing, parquet, floors subject to heavy loads, approved structural timber, sometimes used in water engineering.

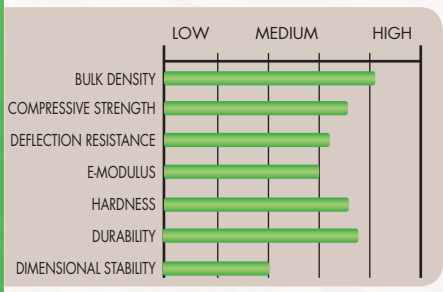
Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrassotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ Good dimensional stability
+ Extremely high strength
+ Very high hardness
+ Approved structural timber

– *Often originates from overexploitation (use only certified timber wherever possible)*

Garapa
Apuleia spp.



General details:
- **Origin:** South America, trade name encompasses various species
- **Colour:** Honey yellow, later darkening to yellowish brown or golden brown
- **Durability class:** Varies between 1 and 3
- **Properties:** Moderate to high swelling and shrinkage, satisfactory to moderate dimensional stability, plain, homogeneous texture.

Application:
Deck construction, furniture, window frames

Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 10 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ High durability (variable)
+ High strength
+ Very high hardness

– *Possible erosion of constituent substances in the timber*
– *Often originates from overexploitation (use only certified timber wherever possible)*
– *Moderate dimensional stability*

Douglas Fir
Pseudotsuga menziesii

General details:
- **Origin:** North America, also cultivated in Europe since the 19th century
- **Colour:** Light yellowish brown to red brown, resembles European Larch.
- **Durability class:** 3–4
- **Properties:** High elasticity, low swelling and shrinkage, good dimensional stability, low resin content, fine texture.

Application:
Deck construction, façades, solid-wood floorboards, window frames, fencing, approved structural timber, sometimes used as a substitute for tropical timber.

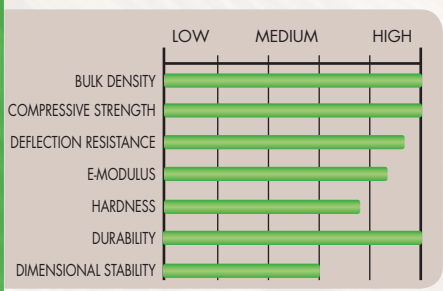
Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For direct fastening: Terrassotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop (risk of splintering).

+ Low swelling and shrinkage
+ Good dimensional stability
+ Approved structural timber
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry

– *Resin bleed possible*
– *Moderate durability but sufficient for deck construction*
– *Moderate hardness*

Cumarú
Dipteryx spp.



General details:
- **Origin:** Northern South America, trade name encompasses various species
- **Colour:** From yellowish to red to violet brown, later darkening to yellowish brown to olive brown
- **Durability class:** 1
- **Properties:** High swelling and shrinkage, good to satisfactory dimensional stability, extremely high strength, very high hardness, homogeneous texture.

Application:
Deck construction, floors subject to heavy loads, structural timber, sometimes used in water engineering.

Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

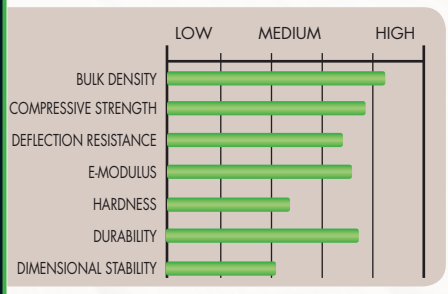
Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrassotec A2 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles.
It is always advisable to drill a pilot hole with a drill stop.

+ Very high durability
+ Extremely high strength
+ Very high hardness

– *Possible erosion of constituent substances in the timber*
– *Often originates from overexploitation (use only certified timber wherever possible)*
– *Moderate dimensional stability*

Overview of timber types*

Bangkirai, Yellow Balau
Shorea spp.



General details:
- **Origin:** South, Southeast and East Asia, trade name encompasses various species
- **Colour:** Yellowish brown, often darkening to olive brown
- **Durability class:** 2
- **Properties:** Medium to high swelling and shrinkage, satisfactory dimensional stability, high strength and hardness, distinctive texture.

Application:
Deck construction, piers, floating jetties, fencing, stables, flooring subject to heavy use, structural timber in water engineering. Many of the Shorea species of the Meranti group are used for window frames.

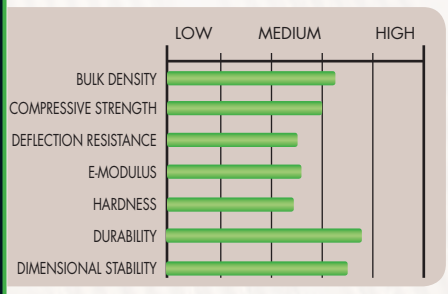
Installation instructions:
Installation is extremely dependent on the timber's moisture level. The wood moisture must always be determined before installation. Ask your timber supplier for more information.

Fastening recommendation:
For timbers with high wood density and/or moderate dimensional stability, direct fastening of the boards is preferable to hidden. This applies above all to board thicknesses > 25 mm. For direct fastening: Terrassotec, hardened stainless steel, 5.0 and 5.5 mm; Hapatec, hardened stainless steel, 5.0 mm; or Profile drilling screw, hardened stainless steel, 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ High strength
+ High hardness

– *Possible erosion of constituent substances in the timber*
– *Often originates from overexploitation (use only certified timber wherever possible)*

Oak
Quercus robur, Quercus petraea



General details:
- **Origin:** Europe
- **Colour:** Yellow brown, darkening to brown to olive brown
- **Durability class:** 2
- **Properties:** Low swelling and shrinkage, good dimensional stability; distinctive, decorative texture.

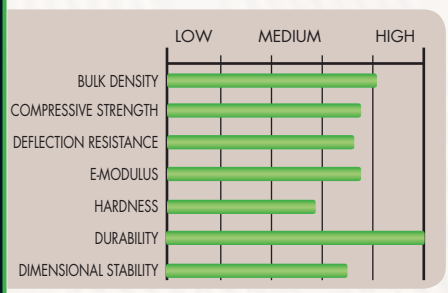
Application:
Deck construction, stairs, parquet, furniture, window frames, fencing, approved structural timber, sometimes used as a substitute for tropical timber.

Installation instructions:
- Centre distance in substructure: max. 60 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.

+ High durability
+ Good dimensional stability
+ High hardness
+ Approved structural timber
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry

Walaba
Eperua spp.



General details:
- **Origin:** As reservoir timber from the Brokopondo Reservoir in Suriname (South America), otherwise from northern South America; trade name encompasses various species.
- **Colour:** Red brown to dark brown
- **Durability class:** 1
- **Properties:** As reservoir timber: low swelling and shrinkage, good dimensional stability, high strength and hardness, very decorative.

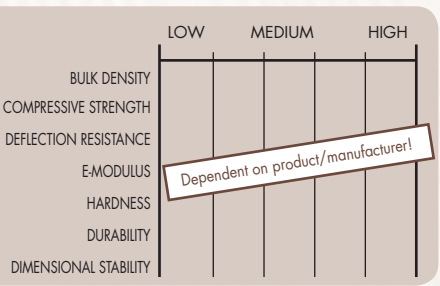
Application:
Deck construction, water engineering, fencing, piles, masts, structural timber.

Installation instructions:
- Centre distance in substructure: max. 40 cm
- Joint width between the boards: 6 to 8 mm
- Spacing between the butt joints: 3 to 4 mm

Fastening recommendation:
For direct fastening, use Terrassotec A4 5.5 mm or Profile drilling screw A4 5.5 mm for Eurotec aluminium profiles. It is always advisable to drill a pilot hole with a drill stop.

+ Very high durability
+ No erosion
+ Low swelling and shrinkage
+ Good dimensional stability
+ High strength and hardness
+ Timber from reservoirs means no destruction of primeval forest

WPC
Wood-Plastic-Composite



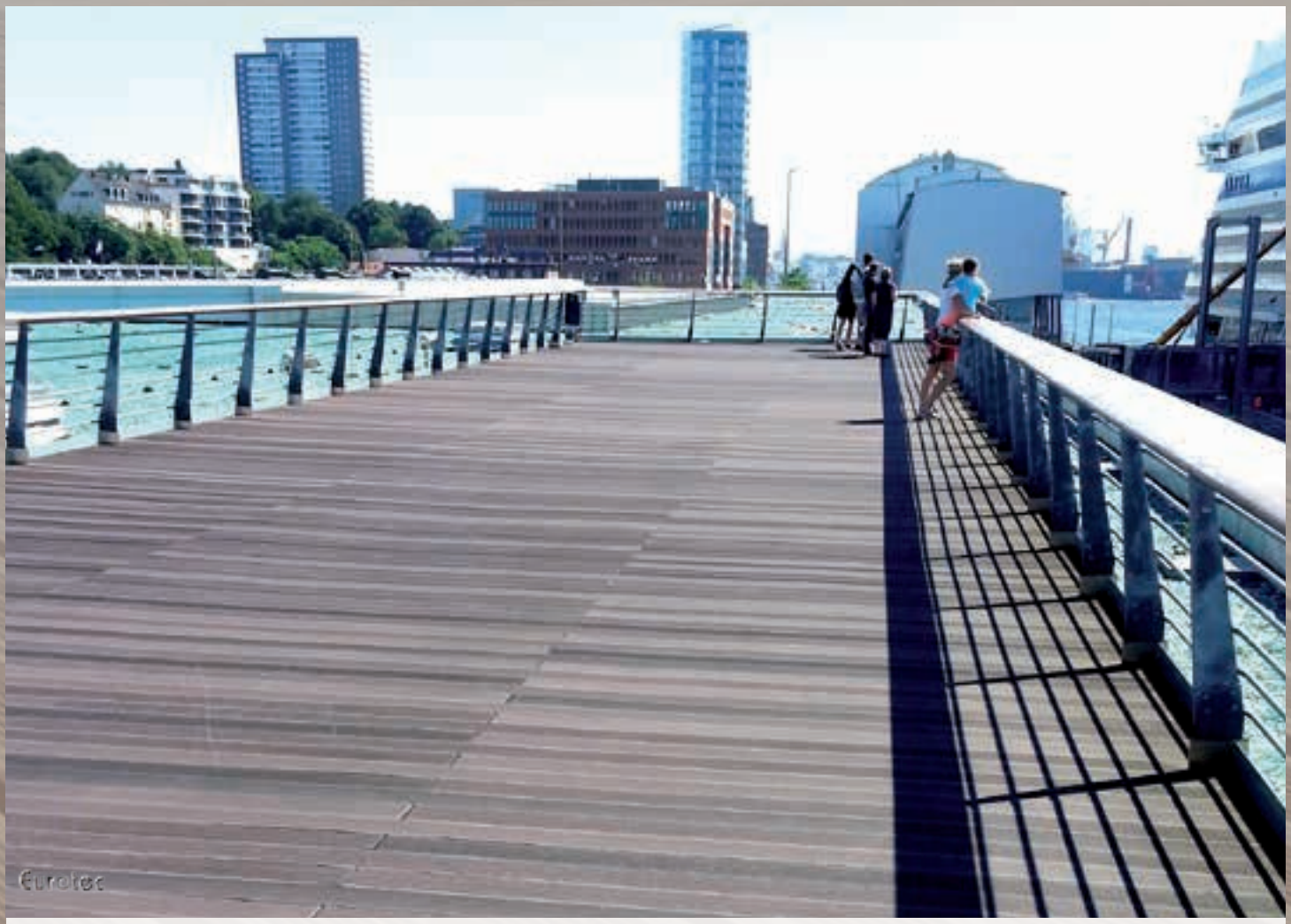
General details:
Depending on the product in question, wood-plastic composite materials consist of different proportions of wood, plastics and additives. The wood content varies from 50% to 70%. The natural fibres incorporated into the material originate predominantly from sustainable forestry. The properties of these polymer-bound products are equivalent to those of high-quality timber-based materials.

Application:
Deck construction, fencing, garden furniture, façades, edge profiles, privacy screen elements, sometimes used as a substitute for tropical timber.

Installation instructions:
Substructure spacing and joint width according to manufacturer's information.

Fastening recommendation:
WPC boards are usually fastened hidden and invisibly with clips, e.g. T-Stick on aluminium substructure.

+ Good dimensional stability
+ Barefoot board
+ No erosion
+ Substitute for tropical timber
+ Largely sourced from sustainable forestry



Eurotec®
...living with nature

Wood decks combine classic beauty with a warm and cosy atmosphere. Wood does not get too hot in summer and remains at a pleasant temperature in winter.

Model Foto: Colourbox.com

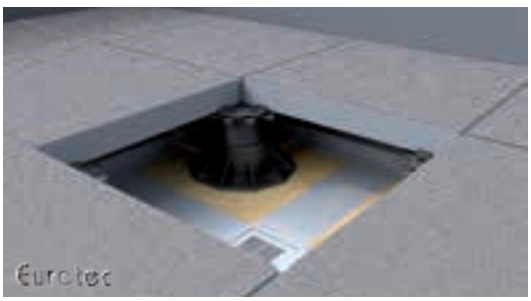
DECK SUBSTRUCTURE

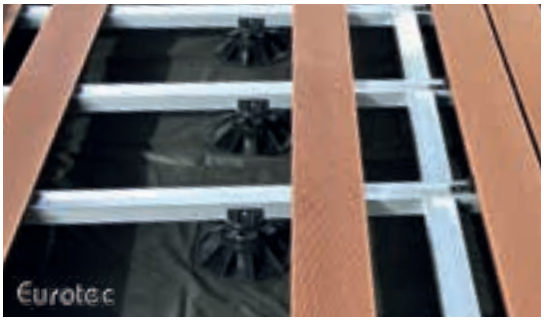
Essential for a perfect deck

High-grade solutions for alltypes of substructure

Without a perfect substructure, your deck will soon become defective. We offer a number of aids that let your deck remain attractive for a long time.

We will show you what's important!





Cork accessories for deck substructures

NEW

Cork, what is it?

Cork is a natural product obtained from the bark of the cork oak. The cork oak is a deciduous tree that is native primarily to the western Mediterranean, e.g. Spain and Portugal. To harvest the cork, the bark is peeled directly off the tree by hand. As cork is a renewable natural product, a tree can be reharvested approx. every 10 years without causing damage to the tree. A cork oak has a life expectancy of up to 300 years and delivers approx. 100 to 200 kilograms of cork over its lifespan.

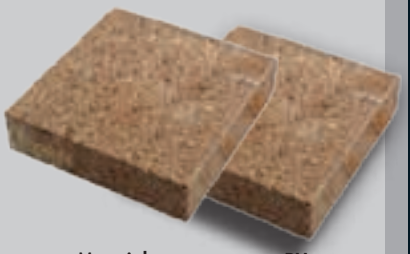
The cork pad spacers are laid between the deck substructure and the foundation/subsurface (self-adhesive on one side) and thus form a gap that aids constructive timber protection. The cork pad spacers are available in three sizes. These are 3 mm, 6 mm and 10 mm thickness/height (see Fig.). In addition to the advantages already mentioned, useful side effects of using the spacer include the option to adjust the height of the substructure and that the loads are distributed evenly.

Cork: properties and advantages

- Water-repellent (hydrophobic) and moisture-resistant
- Chemically neutral – free of PAHs (PAHs are toxic, carcinogenic plasticisers that are found primarily in rubber compounds)
- Does not decompose and is resistant to most acids and alkalis
- Dampens footfall sound, is non-slip and insulates against heat, noise and vibrations
- Resistant to rot, bacteria and germs
- Very pressure-stable and exhibits hardly any expansion
- Flame-resistant (fire class B2)

Cork is a sustainable, environmentally friendly natural product.

»Free of PAHs«
(hazardous plasticisers in rubber).



Cork pad spacer,
self-adhesive

Art. no.	Dimensions	Material	PU
945397	70 x 70 x 3 mm	Cork	25
945398	70 x 70 x 6 mm	Cork	25
945399	70 x 70 x 10 mm	Cork	25

»Free of PAHs«
(hazardous plasticisers in rubber).

Roof-protection cork, the natural underlay for adjustable feet

Using adjustable deck feet on, for example, PVC sheet roofs can lead to problems because of the plasticisers contained in the roofing.
The roof-protection cork provides natural protection against mechanical damage to the roof sheeting, at the same time as preventing contact between the two materials. Free of PAHs *(hazardous plasticisers in rubber)*.

NEW

Art. no.	Dimensions	Material	PU
945395	250 x 250 x 3 mm	Cork	10

Accessories for substructures for decks

Root control fleece underlay

Permeable polypropylene underlay. Very limited permeability to water. Inhibits plant growth under the fleece.

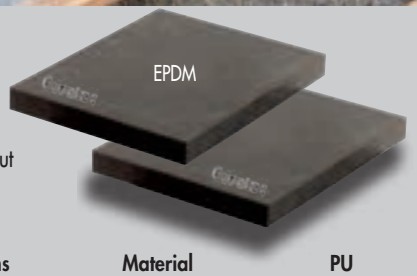
Art. no.	Dimensions	Material	PU
944799	1,6 x 10,0 m	Polypropylene 50g/m²	Piece

Rolfi, spacers

These spacers form a gap between the substructure and the foundation/ support and thus help to protect the wood of the boarding beams.

Useful side effects are

- Height adjustment of the substructure possible
- Even load distribution, minor irregularities are balanced out
- Dampens footfall noise



Art. no.	Dimensions	Material	PU
945966	60 x 60 x 3 mm	EPDM, black	25
945967	60 x 60 x 6 mm	EPDM, black	25
945379	60 x 60 x 10 mm	EPDM, black	25

Protectus, timber-protection tape

NEW

The Protectus timber-protection tape provides lasting protection for your timber substructure from moisture, e.g. rain.

Advantages:

– Constructive timber protection
– Easy fastening thanks to adhesive film
– Optimum fit thanks to very thin material
– Tear-proof and durable
– Screws can be screwed through easily
– Can be individually cut to length

Art. no.	Dimensions	PU
946157	20000 x 75 x 1 mm	Piece

Rolfi, roll

NEW

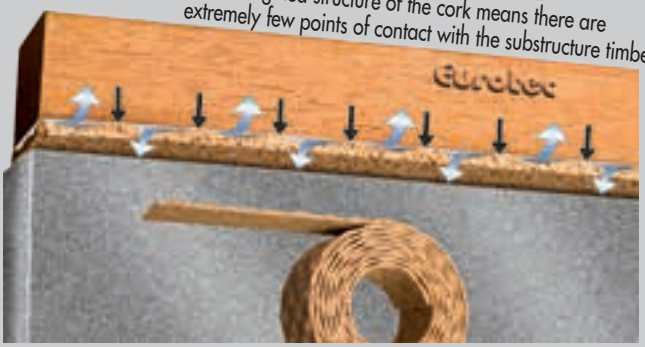
The Rolfi roll forms a gap between the deck substructure and foundation/subsurface.
Available in two materials.

Advantages:

– Constructive timber protection
– Substructure height can be adjusted
– Uniform load distribution
– Small irregularities can be evened out
– Dampens footfall noise
– Can be individually cut to length

»Free of PAHs«
(hazardous plasticisers in rubber).

The corrugated structure of the cork means there are extremely few points of contact with the substructure timber.



Art. no.	Dimensions	Material	PU
954040	4000 x 70 x 6 mm	Cork (corrugated)	10
945561	2015 x 70 x 8 mm	Granulated rubber	10

The Click system from Eurotec

NEW

The next-generation deck substructure

Thanks to new Click devices, EuroTec aluminium profiles can now simply be clicked into place on specially developed adjustable feet. It has never been easier to build the perfect substructure!

The Click device on the adjustable feet

Attaching deck boards with the Euro Deck Flex Clip

Adjustable feet for aluminium substructures with Click system

Let the clicking begin!

Click Foot S

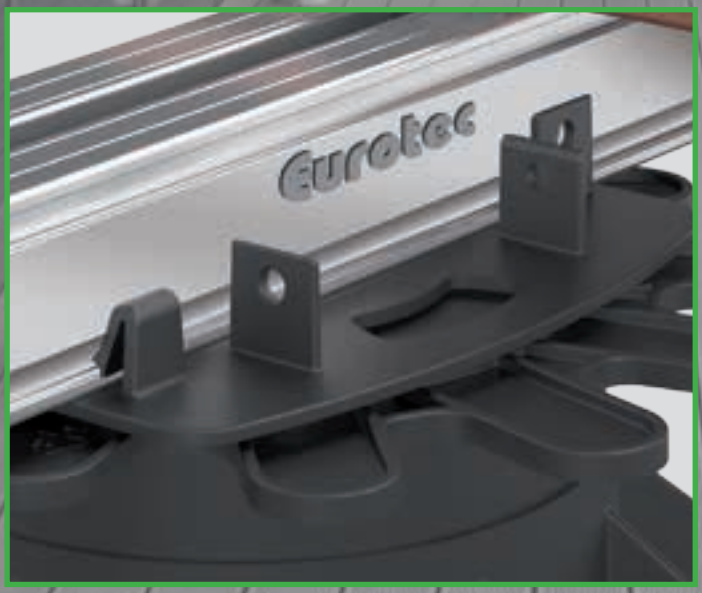
NEW

Adjustable range 3,5 – 6,0 cm

Art. no.	Name	Height	Load bearing capacity*	PU
954065	Click Foot S	3,5 - 6,0 cm	2,2 kN	20

For Click Foot S, L, XL

** The quoted load-bearing capacities represent recommended values. With these loads, the adjustable feet only deform by approx. 2 mm. The load-bearing capacity before actual breakage is several times higher.*

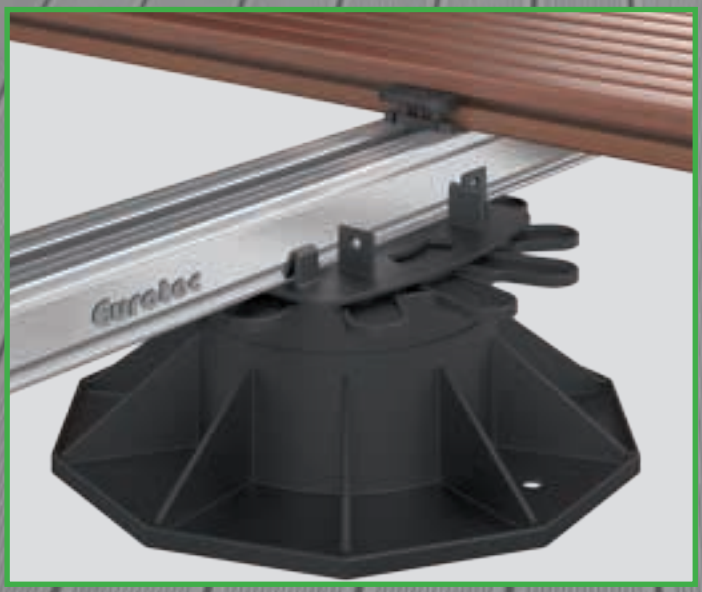


Click Foot L

NEW

Adjustable range 7,0 - 12,0 cm

Art. no.	Name	Height	Load bearing capacity*	PU
954066	Click Foot L	7,0 - 12,0 cm	8,0 kN	6



Click Foot XL

NEW

Adjustable range 15,5 - 20,0 cm

Art. no.	Name	Height	Load bearing capacity*	PU
954067	Click Foot XL	15,5 - 20,0 cm	8,0 kN	4

Adapter

for Big Foot, Big Foot XL, Tower, Stone Foot M, L, XL, Click Foot L, XL

Art. no.	Name	Height	Load bearing capacity*	PU
945991	Adapter Big Foot	10 - 14 cm	8,0 kN	10

Euro Deck aluminium system profile

NEW

Two possible applications

1.) *Euro Deck aluminium system profile*

» from above «

Hidden fastening of deck boards with the Euro Deck Flex Clip from Eurotec!
This is suitable for WPC boards and for dimensionally stable timbers with grooved sides, e.g. thermally modified timbers.

2.) *Euro Deck aluminium system profile*

» from below «

Visible fastening of deck boards with the profile drilling screw from Eurotec.

Euro Deck aluminium system profile

Art. no.	Dimension[a)]	Material	PU
945971	38 x 30 x 4000 mm	Aluminium	1

a) Width x height x profile length

The advantages at a glance:
- The strip simply clicks onto the adjustable feet
- The profile has double-sided functionality
- The profile has a reduced assembly height
- It has a particularly high load-bearing capacity
- It is torsion-proof
- Durable, dimensionally stable and straight
- Can be laid in infinite lengths using the system connector
- A screw channel avoids tedious drilling times for screws

Accessories for the Euro Deck aluminium system profile

NEW

Euro Deck aluminium system connector

"The profile butt joint is only to be positioned directly above a post or support."

Drilling screws are included with this product!

Art. no.	Dimension[a]	Material	PU**
954042	10,5 x 7,5 x 200 mm	Aluminium	10

* a) Width x height x profile length

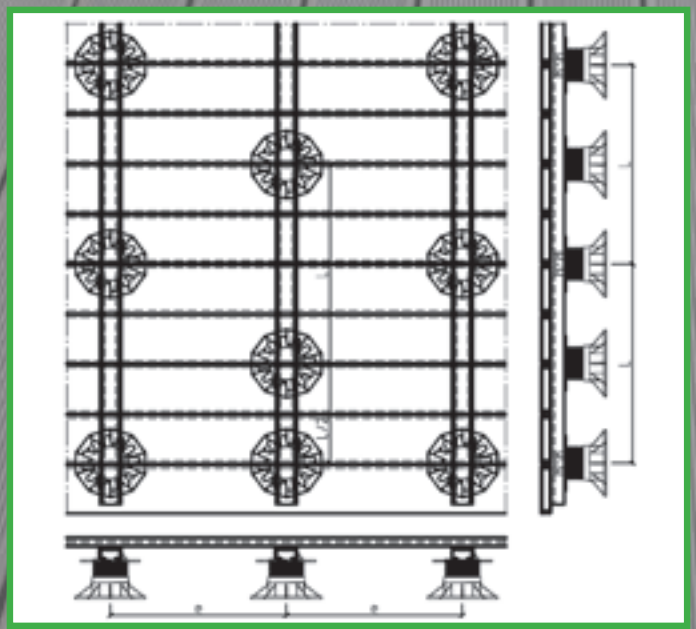
** Pair

Two aluminium system profile connectors are required per joint to connect the Euro Deck aluminium system profiles to one another. A secure joint is formed using drilling screws.

Technical application information

Profile butt joints of the substructure should always be made directly above a point of support. In order to reduce vibration, we recommend offsetting the adjustable feet of every second substructure profile by L/2!

Insert the connector and screw it tight; the Euro Deck aluminium system profile can now be extended.



	Max. support spacing L [mm] Click Foot S (perm. F = 2.2 kN) with Euro Deck aluminium system profile[a]								Max. support spacing L [mm] Click Foot L and XL (perm. F = 8 kN) with Euro Deck aluminium system profile[a]							
Useful load	Centre distance e [mm] between the profiles[b]								Centre distance e [mm] between the profiles[b]							
[kN/m²]	250	300	350	400	450	500	550	600	250	300	350	400	450	500	550	600
2	700	700	650	650	600	600	550	550	700	700	650	650	600	600	550	550
4,0 [c]	600	550	550	500	500	500	450	400	600	550	550	500	500	500	450	450
5,0 [c]	550	550	500	500	450	400	350	350	550	550	500	500	450	450	450	450

a) Max. support spacing (L) for Click Foot adjustable feet at load capacities of 2, 4 and 5 kN/m², at a board thickness of 30 mm and a board density of 9 kN/m³.
b) If WPC boards are used, the centre distance e between the profiles must not exceed 400 mm!
c) Load capacities according to DIN 1055-3:2006; roof terraces = 4 kN/m², decks for public use = 5 kN/m².

NEW

Euro Deck Flex Clip

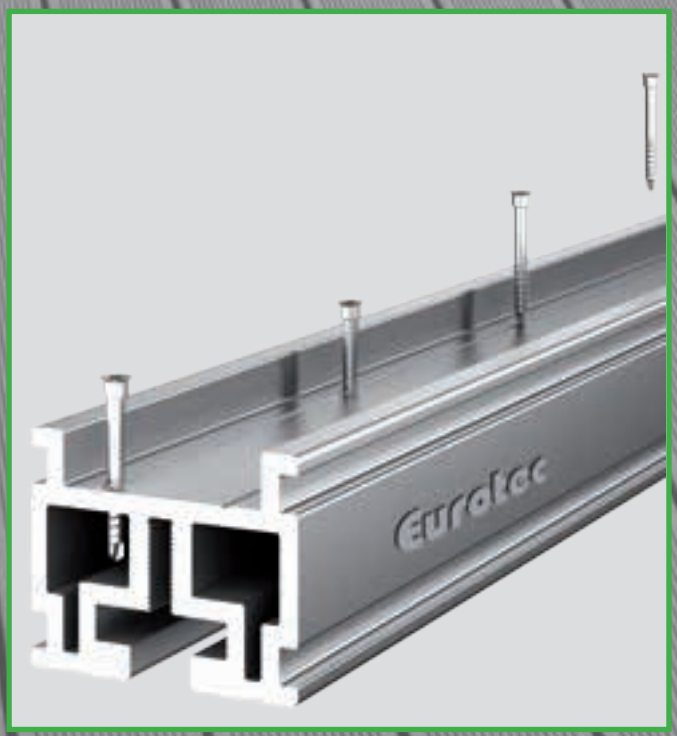
For hidden fastening of WPC boards and dimensionally stable timbers with grooved sides in combination with the top side of the Euro Deck aluminium system profile.

Not suitable for tropical timbers with pronounced swelling or shrinkage.

Art. no.	PU*
954043	100

*Product includes screw

You can use the underside of the Euro Deck aluminium system profile for visible fastening using screws:



This diagram shows how the screws sit in the strip.

Here you can see deck boards that have already been screwed on.

NEW

Aluminium system profile

The aluminium system profile is the alternative to a deck substructure made of timber.

- In contrast to timber substructures, the profile is dimensionally stable and straight. It suffers from no climate-related effects such as warping, cracks, etc. that naturally occur with timber.
- The special shape prevents the screws from shearing off.
- Both hidden and direct screw connections are possible.

Now also with the new Click system!

(Example: Click Foot L)

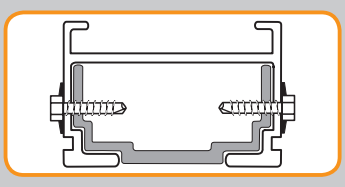
Hidden fixing

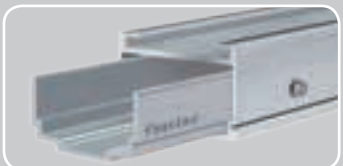
Hidden fastening using deck glider on Black Edition aluminium system profile

Visible fixing

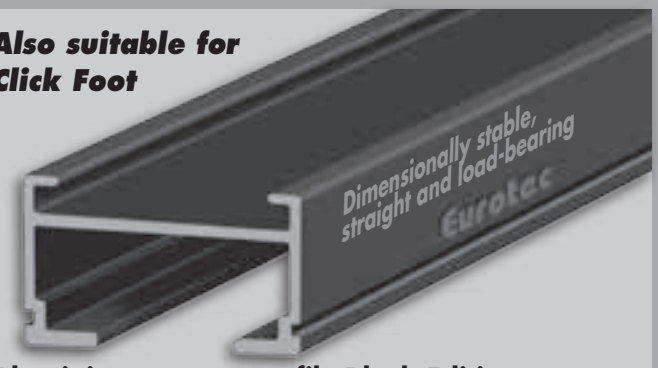
Visible fastening on aluminium system profile

Example of fixing aluminium profile connectors





Also suitable for Click Foot



Aluminium system profile Black Edition

Art. no.	Dimensions[a)]	Material	PU
945616	40 x 60 x 4000 mm	Aluminium, black	1

a) Height x width x profile length

Also suitable for Click Foot

Aluminium system profile

Art. no.	Dimensions[a)]	Material	PU
945545	40 x 60 x 4000 mm	Aluminium	1

a) Height x width x profile length

Cross-section values[b)]	
W_y in mm³	I_y in mm⁴
3566	71694

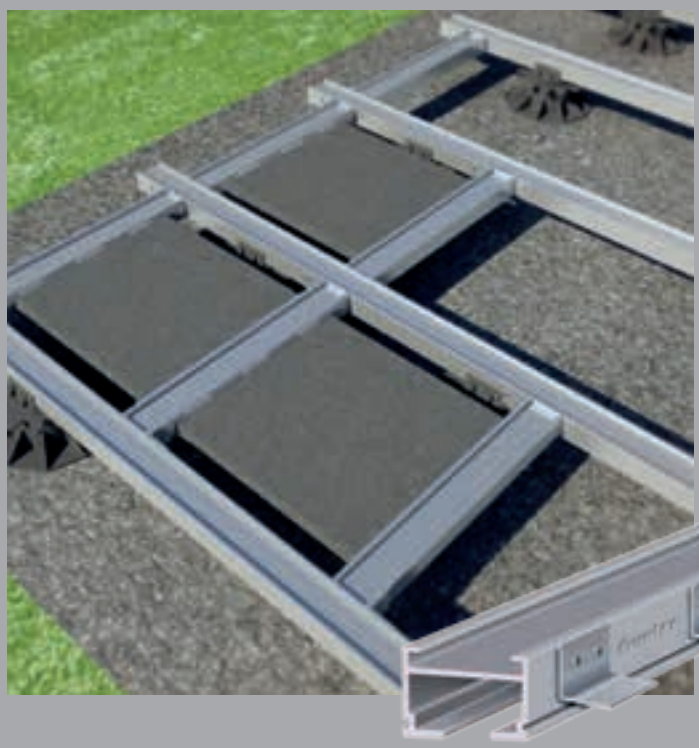
b) W_y = section modulus; I_y = geometrical moment of inertia

Aluminium system profile-connector*

Art. no.	Dimensions[a)]	Material	PU
945878	24 x 55 x 200 mm	Aluminium	10

a) Height x width x profile length
* Incl. 4 drilling screws per connector

"The profile butt joint is only to be positioned directly above a post or support."



Corner connector

Art. no.	Dimensions[a)]	Material	PU
975597-10	40 x 40 x 40 mm	Steel, hot galvanised	10*
975597-200	40 x 40 x 40 mm	Steel, hot galvanised	200**

* Incl. 40 screws
** Incl. 800 screws

Schematic representation

Spans for aluminium system profiles in mm

Max. spans for aluminium system profiles in mm[a)]							
Useful load	**Profile clearance in mm[b)]**						
kN/m²	300	350	400	450	500	550	600
2,0	1000	950	900	850	850	800	800
4,0[c)]	800	750	700	700	650	650	600
5,0[c)]	750	700	650	650	600	600	550

a) Specification of the max. span with which the deflection of the profile does not exceed L/600
b) Example: clearance of profiles to one another = 550 mm, useful load = 2.0 kN/m² → max. span of profile = 800 mm
c) Useful loads in accordance with DIN 1055-3:2006, roof terraces = 4 kN/m², terraces in public = 5 kN/m²

Example: Big Foot XL

The aluminium system profile is suitable for all adjustable feet that have the L adapter (Example: Big Foot XL)

The aluminium system profile is also suitable for all adjustable feet that have the NEW Click system (Example: Click Foot L)

Profile drilling screw,
Hardened stainless steel

Art. no.	Dimensions	Drive	Board thickness	PU
905559	5,5 x 46 mm	TX25 ●	21 - 25 mm	200
905562	5,5 x 51 mm	TX25 ●	26 - 30 mm	200
905560	5,5 x 61 mm	TX25 ●	36 - 40 mm	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Profile drilling screw,
A4

Art. no.	Dimensions	Drive	Board thickness	PU
905563	5,5 x 46 mm	TX25 ●	21 - 25 mm	200
905564	5,5 x 51 mm	TX25 ●	26 - 30 mm	200
905565	5,5 x 61 mm	TX25 ●	36 - 40 mm	200

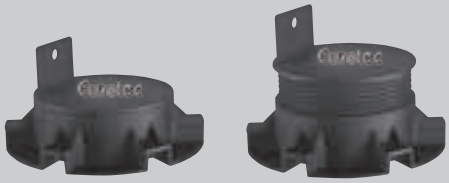
- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

EDELSTAHL Rostfrei

Adjustable feet made of hard plastic

Minifoot

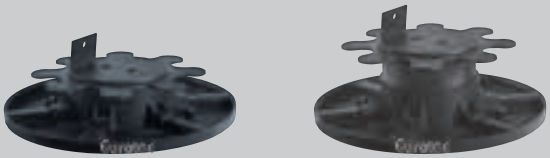
Adjustable range 2,5 – 4,0 cm



Art. no.	Name	Height	Load bearing capacity*	PU**
945591	Minifoot	2,5 - 4,0 cm	2,2 kN	50

Small Foot

Adjustable range 3,5 – 6,0 cm



Art. no.	Name	Height	Load bearing capacity*	PU**
945509	Small Foot a)	3,5 - 6,0 cm	2,2 kN	20

a) Incl. base

Balancing out for a perfect inclination

Small Foot - bottom part

In order to expand the Minifoot's supporting surface, the Minifoot can be combined with the Small Foot's base.

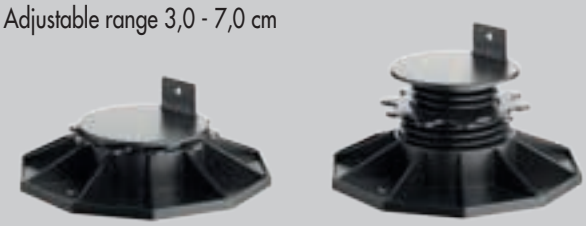
To do this, the Minifoot is simply clicked onto the Small Foot base. The assembly height only increases by 2 mm.

Art. no.	Name	PU**
945448	Small Foot bottom part	50

Unscrew for the exact height

Small Foot XL

Adjustable range 3,0 - 7,0 cm

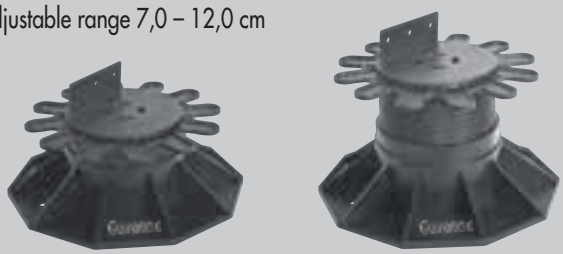


Art. no.	Name	Height	Load bearing capacity*	PU**
946020	Small Foot XL	3,0 - 7,0 cm	2,2 kN	20

A perfect result!

Big Foot

Adjustable range 7,0 – 12,0 cm



Art. no.	Name	Height	Load bearing capacity*	PU**
945377	Big Foot	7,0 - 12,0 cm	8,0 kN	10

Big Foot XL

Adjustable range 7,0 – 17,0 cm

Art. no.	Name	Height	Load bearing capacity*	PU**
945946	Big Foot XL	7,0 - 17,0 cm	8,0 kN	6

Big Foot XXL

Height increase by approx. 10 - 14 cm

Big Foot XL | Adapter | Big Foot XL plus Adapter is Big Foot XXL

Adapter

for Big Foot, Big Foot XL, Tower, Stone Foot M, L, XL, Click Foot L, XL

Art. no.	Name	Height	Load bearing capacity*	PU**
945991	Adapter Big Foot	10 - 14 cm	8,0 kN	10

Tower

Adjustable range 15,5 – 20,0 cm

Art. no.	Name	Height	Load bearing capacity*	PU**
945424	Tower	15,5 - 20,0 cm	8,0 kN	4

* The quoted load-bearing capacities represent recommended values. With these loads, the adjustable feet only deform by approx. 2 mm. The load-bearing capacity before actual breakage is several times higher.

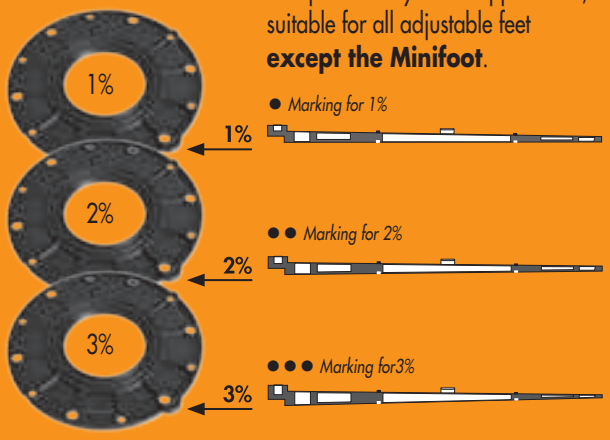
** Incl. one screw per feet.

Adjustable-pedestal feet

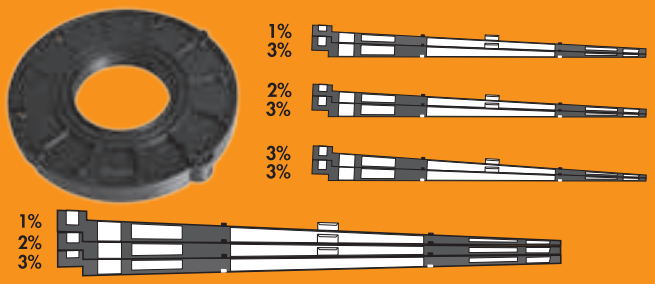
NEW

Nivello

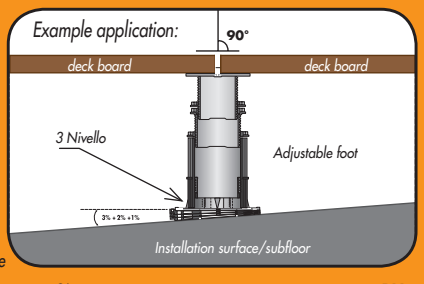
Compensates by 1% to approx. 3%; suitable for all adjustable feet **except the Minifoot**.



The Nivello is attached under the adjustable feet to balance out slight slopes or inclines in an installation surface. Nivello guarantees high stability and ensures optimum load absorption.



The Nivello's construction allows safe, non-slip connection of the individual Nivellos both to one another and to the Eurotec adjustable feet. See example applications.



Example application:
Adjustable foot with Nivello in use

Art. no.	Name	%	PU
945988	Nivello	1%	20
945989	Nivello	2%	20
945990	Nivello	3%	20

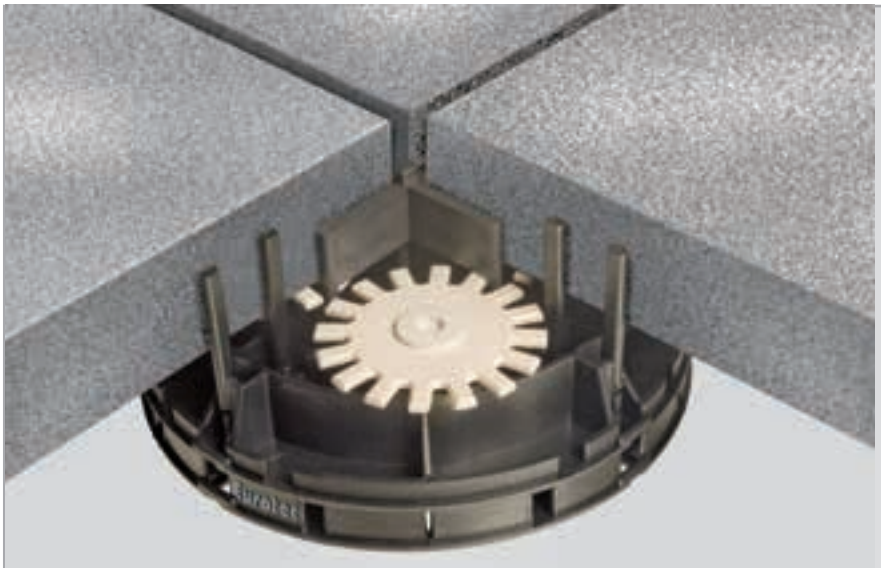
Slab supports and adjustable feet for slabs

The perfect solution for fast and safe installation of large-format floor slabs

Also ideal for your roof terrace

Thanks to modern slab supports and special adjustable feet for slabs, it is now possible to lay floor slabs easily and without mortar. The different support heights of the slab supports and adjustable feet allow you to easily correct height differences in the subfloor and to cover up unsightly outflows and drains. You can therefore achieve an even surface with little effort. Any surface water that arises can run off quickly and easily through the seams.

It is this easy: Example: *Quattro-Lager support*



Quattro-Lager, Adapter, Slab spacer

In order to achieve an even surface with the stone slabs, the height can be adjusted down to the last millimetre using gearwheels in the Quattro-Lager.

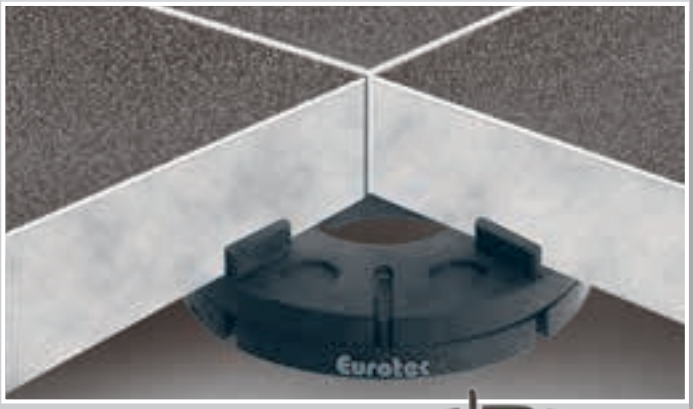
NEW

Slab supports

- Support height: 10 mm
- Joint spacer: 4 mm
- Up to three units can be stacked on top of one another
- Dampens footfall noise

Art. no.	Dimensions[a]	Material	PU
945432	Ø 120 x 18/10 mm	EPDM, black	45

a) Outside diameter x total height/Support height of a plate bearing



Adapter

for Quattro-Lager

- Support height: 15 mm
- Joint spacer: 4 mm
- Can be split and stacked
- Can also be used on its own

NEW

Art. no.	Dimension	Load-bearing capacity per corner*	Total load-bearing capacity*	PU
945342	Ø 180 x 15 mm	50 kN	200 kN	20

Quattro-Lager

- Four different support heights are possible thanks to individually adjustable gearwheels
- Support height: 3 - 5 cm
- Joint spacer: 4 mm
- The height can be extended by placing the Quattro-Lager adapter underneath
- Can be split

Art. no.	Dimension	Load-bearing capacity per corner*	Total load-bearing capacity*	PU
945340	3,5 – 5,0 cm	5 kN	20 kN	15

Slab spacer

for Quattro-Lager

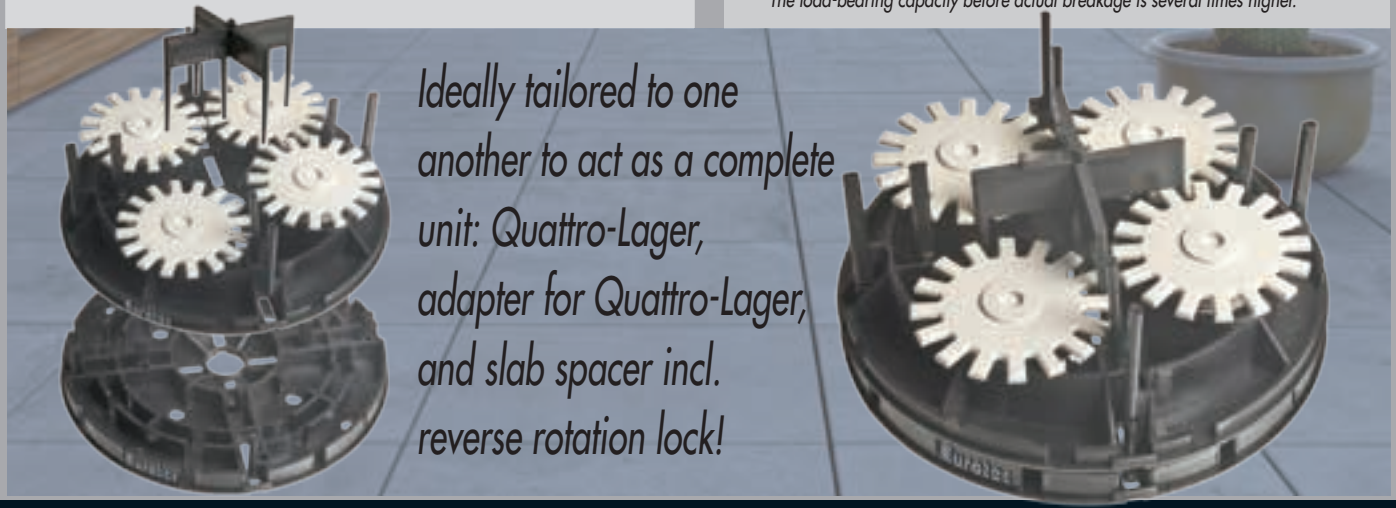
NEW

- Gap width: 4 mm
- With simultaneous reverse rotation locking

Art. no.	Dimensions[a]	Gap width	PU
945341	65 x 74 x 74 mm	4 mm	45

a) Width x height x length

* *The quoted load-bearing capacities represent recommended values. With these loads, the adjustable feet only deform by approx. 2 mm. The load-bearing capacity before actual breakage is several times higher.*



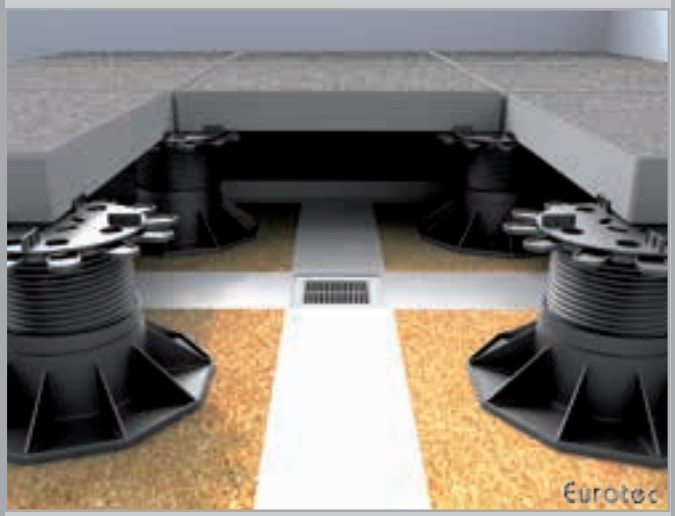
Ideally tailored to one another to act as a complete unit: Quattro-Lager, adapter for Quattro-Lager, and slab spacer incl. reverse rotation lock!

Adjustable feet Stone Foot

NEW

Advantages/properties:

- Mortar-less laying of floor slabs
- Adjustable height thanks to adjustment ranges
- Special support surface thanks to division into quarters
- Each quarter perfectly supports the corner of one floor slab
- Correct slab spacing thanks to joint spacers



Hint

The slab supports also have a practical side effect:

They act as footfall sound insulation. We therefore recommend always placing a slab support on top of the Stone Foot adjustable feet.

Verstellfüße Stone Foot

Art. no.	Name	Height[a)]	Load bearing capacity*	PU
954061	Stone Foot XXS	2,2 - 3,0 cm	4,0 kN	20
954062	Stone Foot XS	2,8 - 3,7 cm	4,0 kN	20
954063	Stone Foot S	3,5 - 5,0 cm	8,0 kN	15
945489	Stone Foot M	5,0 - 7,0 cm	8,0 kN	10
975577	Stone Foot L	7,0 - 12,0 cm	8,0 kN	10
975578	Stone Foot XL	15,5 - 20,0 cm	8,0 kN	4

Stone Foot M

Stone Foot L

Stone Foot XL

Adapter

for Big Foot, Big Foot XL, Tower, Stone Foot M, L, XL, Click Foot L, XL

Art. no.	Name	Height	Load bearing capacity*	PU
945991	Adapter Big Foot	10 - 14 cm	8,0 kN	10

* The values shown for the load bearing capacity are recommended values. With these loads the adjustable feet are deformed by only about 1 mm. The load to fracture is much greater.

Compensation disk

NEW

- For balancing out unevenness in the slabs
- Can simply be placed on top of the Stone Foot
- Can be split into up to four parts

Art. no.	Dimension	PU
954064	Ø 150; h 2,5 mm	10

Stone-slab lifter

NEW

- Simplifies and speeds up the lifting and laying of floor slabs
- Subsequent lifting of already installed slabs is straightforward

Art. no.	Span width	PU
954045	30,0 – 50,0 cm	1

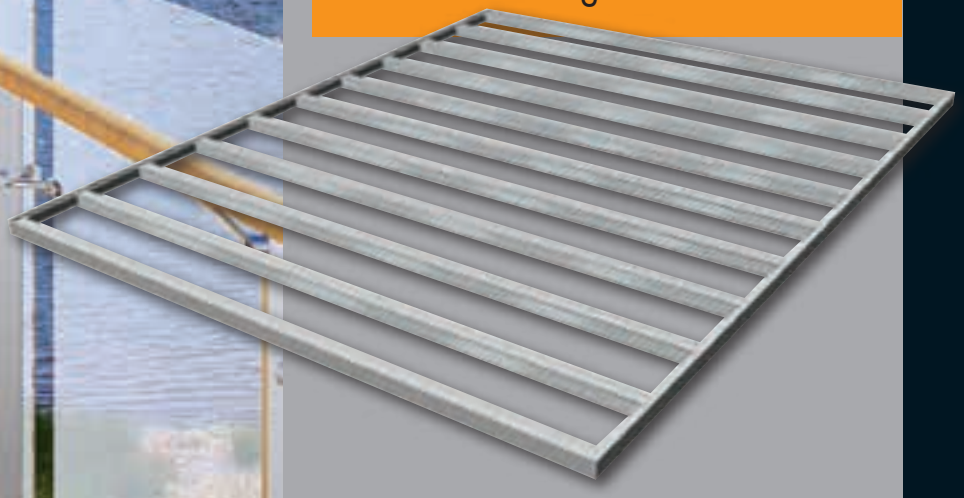
Aluminium Deck Support System

DECK SUPPORT SYSTEM

For bridging wider spans

One system, many advantages:

- High load bearing capability
- Large support widths
- High dimensional stability and evenness
- Low dead load
- High flexibility
- High durability
- Attractive, clean enclosed frame
- Material savings



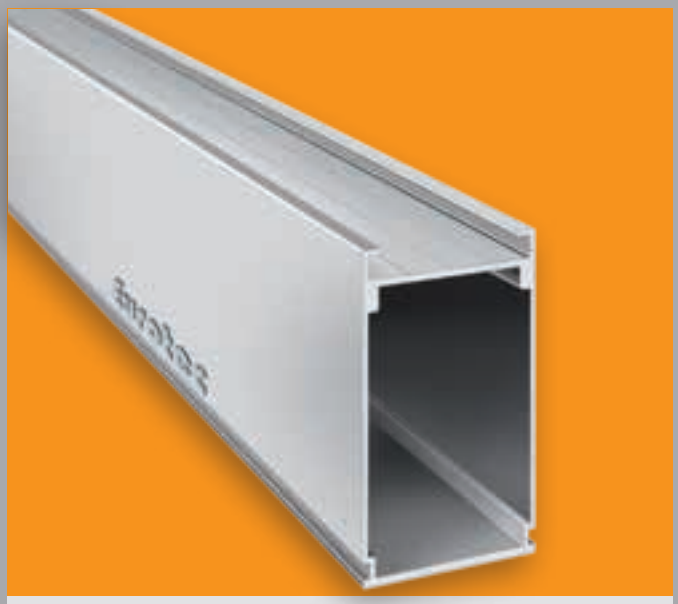
The new deck support system comprises an aluminium substructure that allows spans of up to 3 m, depending on the desired loading capacity.
The support system can therefore be tailored flexibly to meet a wide range of requirements. It is used especially on decks installed near to the ground in which only a few auxiliary supports are laid. Its versatile range of applications also includes elevated decks, load-bearing balconies and overhanging decks near to the ground.

The deck support system consists of two components that are joined together to form a closed, load-bearing system.

Also suitable for the Eurotec Click Foot thanks to the Click system!

Aluminium deck support system HKP

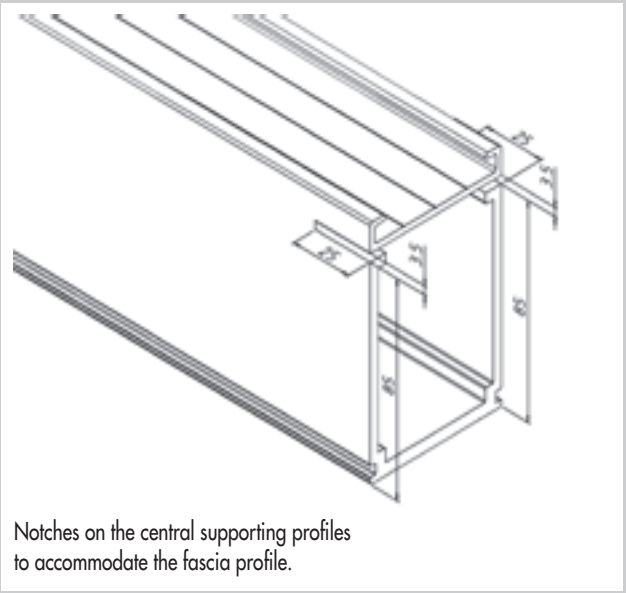
The two parts of the system form a complete deck substructure:



Art. no.	Dimensions[a]	Material	PU
954669	100x60x4000 mm	Aluminium EN-AW 6063-T66	1

a) Height x width x length

1 Support profile HKP NEW

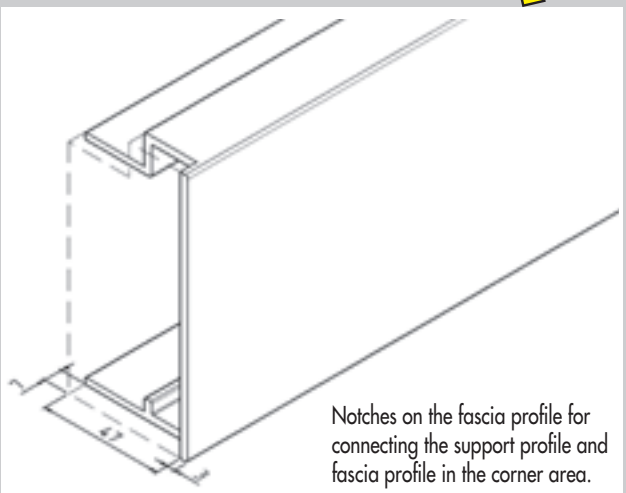


Notches on the central supporting profiles to accommodate the fascia profile.

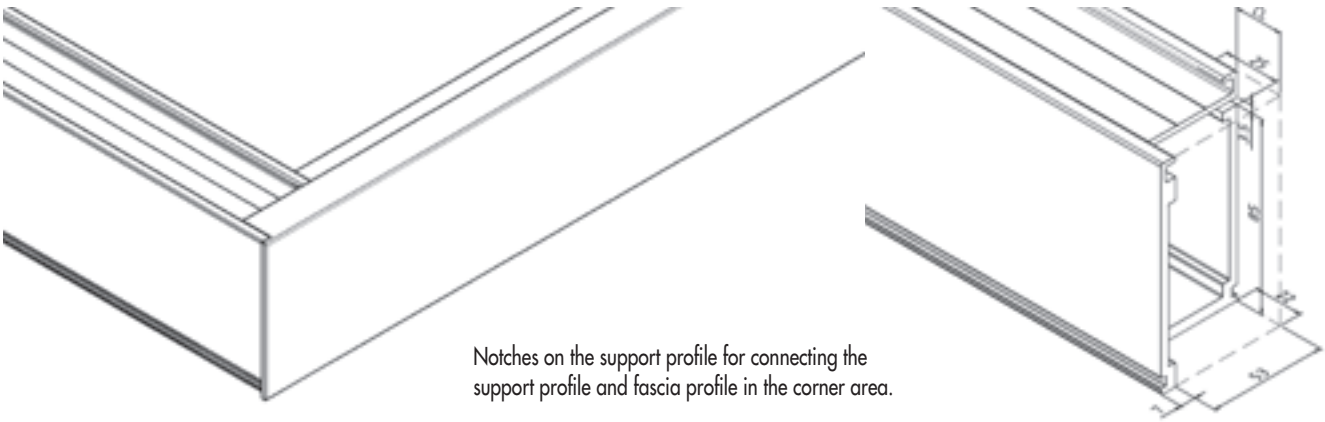
Art. no.	Dimensions[a]	Material	PU
954668	104x50x4000 mm	Aluminium EN-AW 6063-T66	1

a) Height x width x length

2 Fascia profile HKP NEW



Notches on the fascia profile for connecting the support profile and fascia profile in the corner area.



Notches on the support profile for connecting the support profile and fascia profile in the corner area.

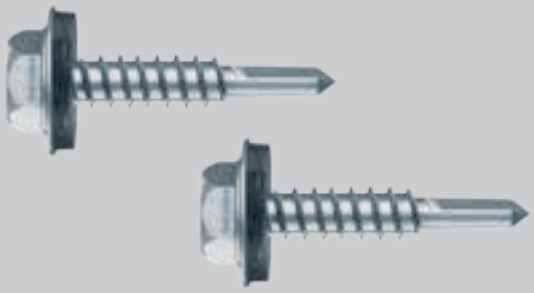
"The profile butt joint is only to be positioned directly above a post or support."

NEW

Aluminium support-profile connector*
for support-profile HKP

Art. no.	Dimensions[a)]	Material	PU
954670	74 x 50 x 250 mm	Aluminium	1

a) Height x width x length
*Incl. 8 drilling screw per connector



BIGHTY drilling screw
Stainless steel, hardened

For fastening wood to steel or steel to steel
Special coating, stainless steel in accordance with DIN 10088
Washer A2 and EPDM
Drilling capacity 5 mm

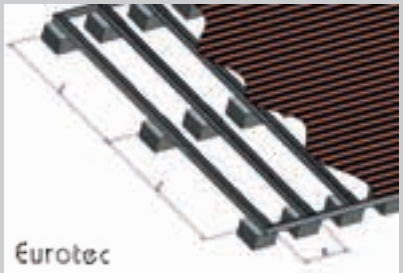
Art. no.	Dimension	Spanner gap	Washer Ø	PU
945666	5,5 x 25 mm	SW 8	Ø 16 mm	500

Overview of load bearing capability – deck support system[a)]

Bearing type	Useful load kN/m²	Axis clearance e [mm] of bearing profiles –T1 to one another [b)]						
		300	350	400	450	500	550	600
Single-span beam L	2,0	3000	2750	2750	2500	2500	2500	2250
	4,0c)	2500	2250	2250	2000	2000	2000	2000
	5,0c)	2250	2000	2000	2000	1750	1750	1750
Twin-span beam L[mm]	2,0	3000	3000	3000	3000	3000	2750	2750
	4,0c)	2750	2500	2500	2500	2250	2250	2250
	5,0c)	2500	2500	2250	2250	2000	2000	2000
Single-span cantilever beam L[mm]/Lk[mm]	2,0	3000/1000	2750/1000	2750/1000	2500/1000	2500/1000	2000/1000	1750/1000
	4,0c)	1750/1000	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750
	5,0c)	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1500/ 750	1250/ 750	1250/ 750

a) Max. bearing clearances (L) for bearings with „direct support" with useful loads of 2, 4 and 5 kN/m², with a mean board thickness of 25 mm and a board weight of 7 kN/m²
b) If WPC boards are used, the axis clearance e between the profiles must not exceed 400 mm!
c) Useful loads in accordance with DIN 1055-3:2006, roof terraces = 4 kN/m², terraces in public = 5 kN/m²

Note: this table provides an overview only of the load bearing capability.
The information on load bearing capability in the technical information must be noted!



Aluminium function strips/Aluminium function strips DiLo

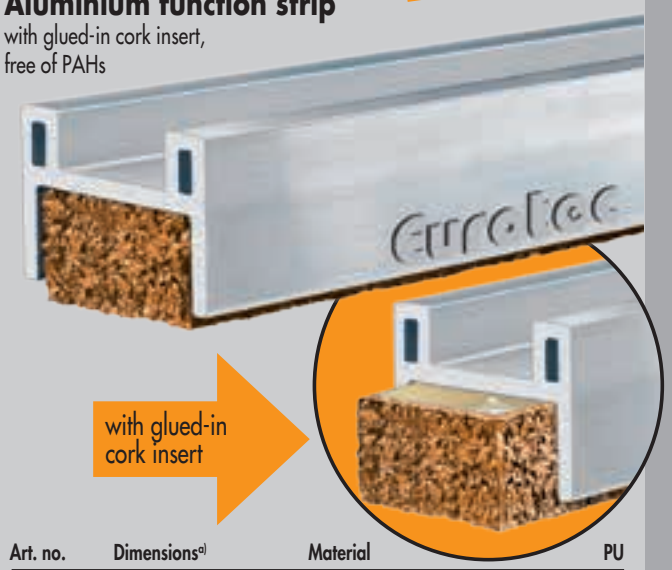
The aluminium function strips from Eurotec offer special solutions for substructures of timber decks with a low assembly height.

»Free of PAHs«
(hazardous plasticisers in rubber).

- The profile impresses with its low assembly height; for example: profile height 29 mm + board 24 mm = 53 mm.
- This low height means the profile is excellently suited to the construction of timber decks that are to be built on existing stone patios, balconies or roof terraces.
- The aluminium is dimensionally stable, does not rust and is extremely weather-resistant. These are key advantages over timber substructures.
- The small supporting surface is ideal for allowing water to run off and prevents the screw from shearing off.
- The self-adhesive cork insert is free of PAHs and ensures good footfall sound insulation on the underside of the profile.
- The aluminium function strip is available in two versions so that – here, too – one can choose between visible and hidden screw connections on a case-by-case basis.

Aluminium function strip

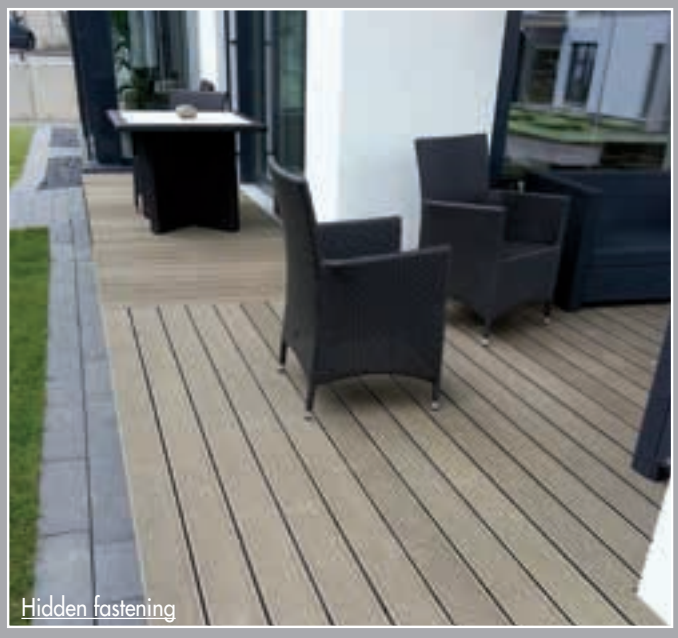
with glued-in cork insert,
free of PAHs



Art. no.	Dimensions[a)]	Material	PU
945510	34 x 29 x 1750 mm	EN AW 6060 T66	10

a) Width x height x profile length
See profile drilling screws (p. 49) for visible fastening of deck boards with a thickness of 21–25 mm.

Visible fastening



Hidden fastening

NEW

DiLo aluminium function strip

Holes: 5.1 mm
Distance from hole to hole: 20 mm
Distance from edge to first hole: 10 mm

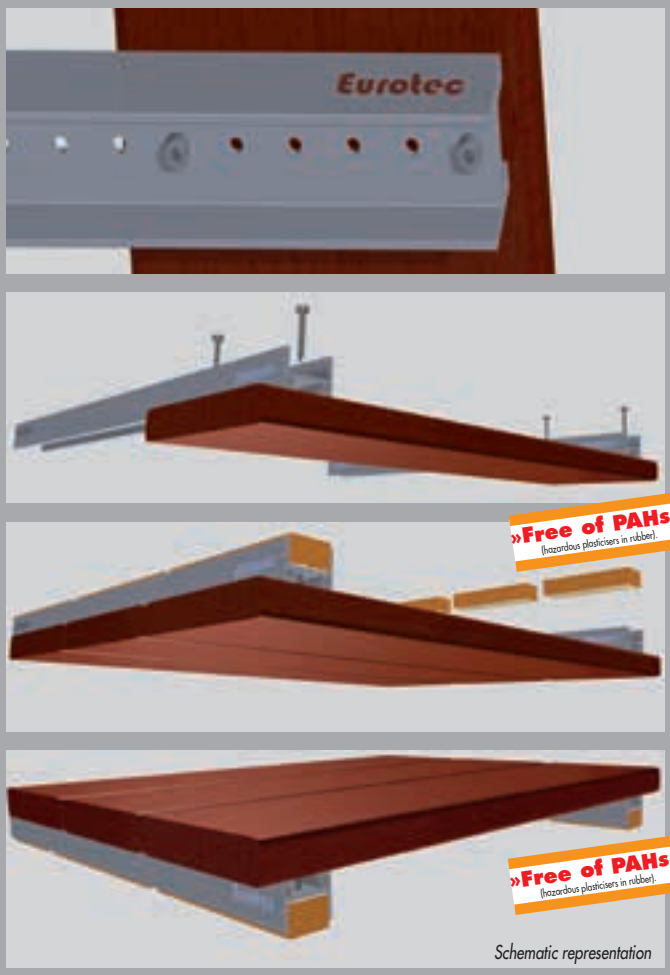
Art no.	Dimensions[a)]	Material	PU*
945535	34 x 29 x 2240 mm	EN AW 6060 T66	10

a) Width x height x profile length
* Cork pads are not included with this product.
See DiLo drilling screws (p. 61) for hidden fastening of deck boards with a thickness of 20–30 mm.

Procedure for hidden fastening of deck boards to DiLo aluminium function strips.

NEW

1. Cut the DiLo aluminium function strips and deck boards to the lengths you require.
2. Lay the cut boards down so that the underside is facing upwards.
3. Align the boards with a uniform joint spacing on a level subsurface. Use the Eurotec spacer for this.
4. Lay the DiLo aluminium function strips backwards onto the boards (at least two DiLo aluminium function strips per element).
5. Fasten each strip in place by screwing two DiLo drilling screws (Ø5x28.5; Ø5x33.5 or Ø5x38.5 mm) into the board for each intersection point (of board and substructure) through the prepared drill holes in the strip.
6. Stick the cork pads into the DiLo aluminium function strip so that almost the entire surface is used for support.
7. Finally, just turn the finished element over and position it. Done.



Schematic representation

NEW

Cork pad with adhesive tape, for DiLo aluminium function strip

Art. no.	Dimensions	PU
945331	90 x 28 x 17 mm	100

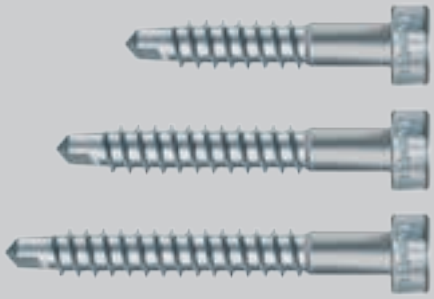
DiLo drilling screw, hardened stainless steel

Art. no.	Dimensions	Drive	Board thickness	PU*
111860	5,0 x 28,5 mm	TX25 ●	min. 20 mm	200
111861	5,0 x 33,5 mm	TX25 ●	min. 25 mm	200
111862	5,0 x 38,5 mm	TX25 ●	min. 30 mm	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

NEW

* Incl. 1 Bit



Wood decks

We have the accessories that you need! Suitable for all types of wood.

DECK BOARDS:

VISIBLE AND HIDDEN FASTENING

Innovative solutions for all types of substructure and deck boards

Deck boards can be fastened in different ways, depending on the type of wood. We provide innovative solutions that enable your individual requirements and wishes for fastening your deck boards.

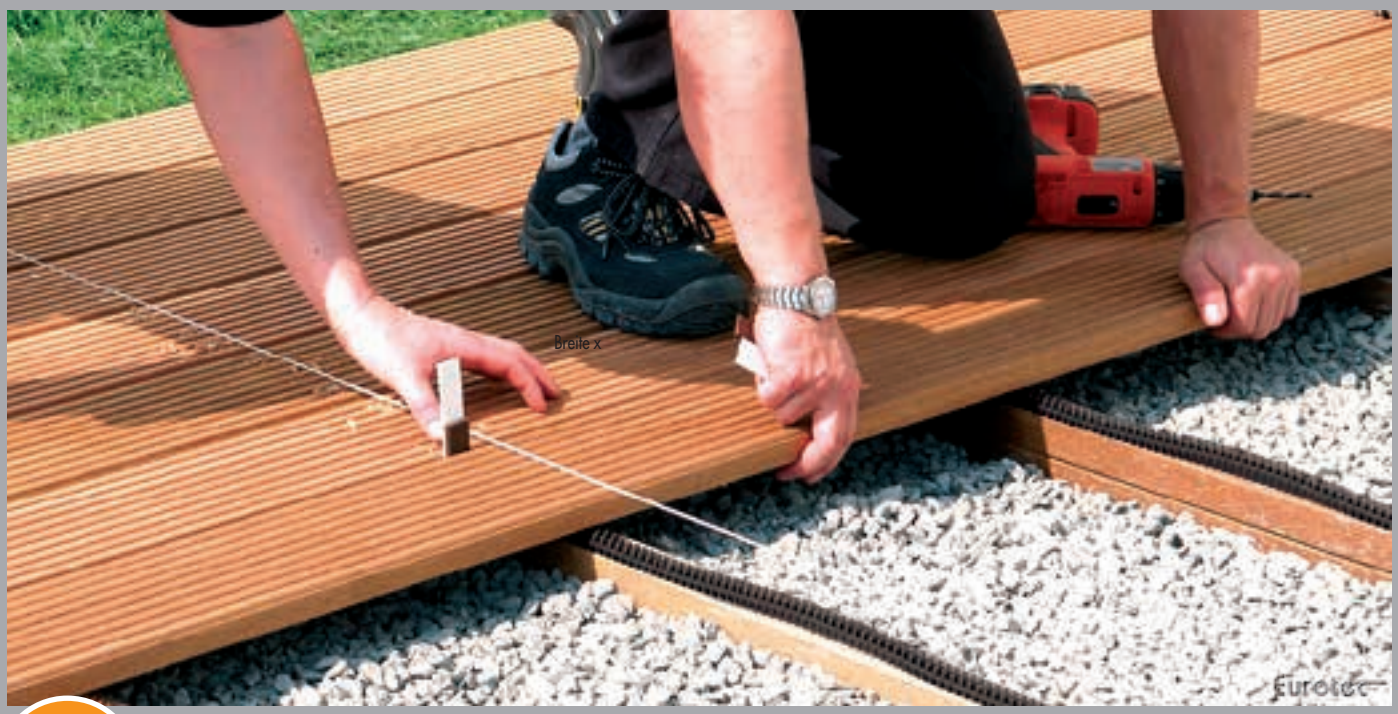
Distance strip

Distance strip – visible fastening of deck boards

Substructure: Timber

This deck substructure made of timber is suitable for both visible and hidden deck-board fastening. The deck boards can be fastened visibly using the distance strip, which acts as a spacer and allows freedom of movement between the board and the substructure. At the same time, it encourages air circulation beneath the deck, inhibiting the formation of rot. Normal wood screws, e.g. Terrassotec screws, are used to screw the strip onto the timber substructure.

Important: Hardwoods/tropical woods should always be pilot-drilled!



The distance strip and the deck gliders make a clearance between the deck board and the substructure. This is of great importance in particular when using tropical woods/hardwoods.

Differences between the uses of the two systems:

- **Distance strip:** The deck board fastenings are visible. These are screwed directly, from the upper side of the boards. The screw heads are therefore visible. The distance strip functions as a spacer.
- **Deck gliders:** Hidden fastening of the deck boards. The deck gliders are fastened first of all to the underside of the boards and then to the substructure. The boards are fastened hidden. The fasteners cannot be seen on the surface of the deck. The deck glider functions as a means of joining and as a spacer.

Distance strip,

Distance strip for visible fastening of deck boards

Art. no.	Dimensions WxHxL	Quantity* Piece/10m²	Material	PU
944801	16 x 13 x 730 mm	23	Hard plastic	50

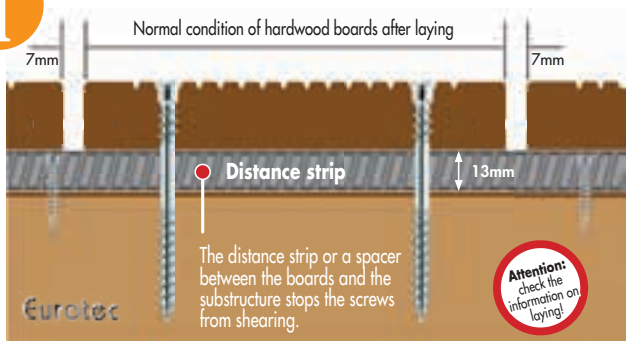
* Bearing beam clearance = 600 mm. Additional distance strips are to be added for the first and last bearing beams and for board joints.

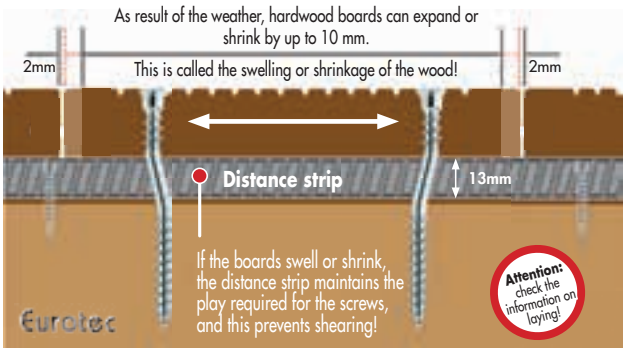
Screws are **not** included. Fastening with Terrassotec screws Ø 4 mm.

Installation instructions for the distance strip

The distance strip is made of hard plastic and is intended to prevent the stainless-steel screws from shearing off. Shearing is caused by swelling and shrinkage of the timber, or so-called warping. This warping is particularly pronounced in the boards' transverse direction. The timber "wants" to take the screw with it, while the lower part of the screw remains securely fixed in the substructure. Since the density of hardwood and tropical wood means the timber is very hard, the screw has no chance of pressing itself into the timber during warping. When the screw breaks off under this strain, this is known as shearing. The distance strip was developed to prevent stainless-steel screws from shearing off. It provides a leeway of 13 mm between the substructure and the deck board, allowing the stainless-steel screws to move with the wood.

The distance strips are fastened to the provided drill holes with Ø 4 mm Terrassotec screws and fixed in place (3 Terrassotec screws are required for each distance strip). Each distance strip is 73.5 cm long and has plug-in connectors at the ends so that it can be easily connected to other strips.





What does ‚shearing' mean?

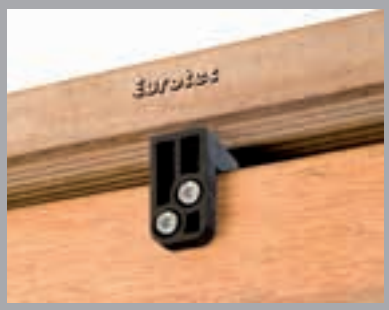
Without a distance strip, the screw does not have any play (Fig. 1), it can break off. This is known as ‚shearing'.
With a distance strip the screw has a play of 13 mm (Fig. 2).
The screws can adjust to the movement of the wood. Shearing is prevented in this way.

The distance strip is screwed along half a side onto the substructure beams. This avoids having to drill through the strip again when laying the deck boards. With wider bearer beams it may be better to fasten the distance strip alternately left and right along half a side so that the deck screw does not pull the bearer beam on one side in the direction of the board when the boards are fastened, and then tilts.

Deck gliders + deck start and end gliders

Hidden screwing of start/end deck boards

If you want to fasten start/end deck boards without the screws showing, use ***deck start and end gliders or the StarterClip.***



Deck start and end gliders

For hidden fastening of deck boards

Deck start and end gliders enable a clean and hidden conclusion when deck boards are laid.

StarterClip

If deck start/end gliders cannot be used, eg because they cannot be screwed in from one side (house wall or brickwork), EuroTec has developed the StarterClip, which is the ideal solution in situations like this.

Presentation video and information on use

Deck gliders - hidden fastening of deck boards

Deck gliders also prevent stainless steel screws from shearing through the clearance between the substructure and deck board (10 mm), above all when hardwood/tropical woods are used (see p. 65).
However, in contrast to distance strips, the boards are fastened indirectly, i.e. screw heads cannot be seen on the surface of the deck.

The gliders satisfy all criteria for fastening both wood and PVC boards.

The system screws are, of course, included with the deck gliders.
You will require at least four screws (4.2 x 24 mm) for each glider. These are available in three different stainless steels.

Deck gliders*,

For hidden fastening of deck boards

Art. no.	Dimensions W x H x L	Quantity* Piece/10 m²	Material	PU
944830	19 x 10 x 190 mm	123	Hard plastic	200

* Clearance of bearing beams = 600 mm, board width = 145 mm, Joint dimension = 5 mm (depending on type of timber).
Please use deck start and end gliders for the first and last bearing beams, and for the board butts.
You will need at least four screws for each deck glider; these are included with the gliders.

Mini deck glider,

NEW

for hidden fastening of deck boards.
The Mini deck glider is used for narrow deck boards with a width of 90 to 110 mm.

Art. no.	Dimensions W x H x L	Quantity* Piece/10 m²	Material	Pu
944767	14 x 10 x 140 mm	200	Hard plastic	200

* Clearance of bearing beams = 500 mm, board width = 90-110 mm, Joint dimension = 5 mm (depending on type of timber) Please use deck start and end gliders for the first and last bearing beams, and for the board butts. You will need at least three screws for each deck glider; these are included with the mini gliders.

Installation instructions for the deck glider

To fasten the boards in place, the gliders are first screwed onto the underside of the boards and then screwed onto the substructure from above. This fastening type avoids direct connections to the substructure. The deck boards therefore have greater freedom of movement (via the deck glider).

Per glider, we recommend using two screws for fastening the glider onto the board and two screws for fastening the glider onto the substructure. For the Mini deck glider, you should use two screws for fastening the Mini deck glider onto the board and one screw for fastening it to the substructure. The deck gliders are suitable for boards with a width of 80 to 160 mm and a thickness of 20 to 30 mm. The Mini deck gliders are suitable for boards with a width of 90 mm to 110 mm and a minimum board thickness of 20 mm.

Deck start and end gliders*

for hidden fastening of deck boards

Art. no.	Material	PU
975584	Hard plastic	10

* 40 system screws are included in the scope of delivery

StarterClip*

for hidden fastening of deck boards

Art. no.	Material	PU
975591	Hard plastic	10

* 40 system screws are included in the scope of delivery

Glider screw, A2

Art. no.	Dimensions	Drive	PU
944926	4,2 x 24 mm	TX20	100

Glider screw, A4

Art. no.	Dimensions	Drive	PU
944927	4,2 x 24 mm	TX20	100

Thermofix screw with drill point, stainless steel, hardened

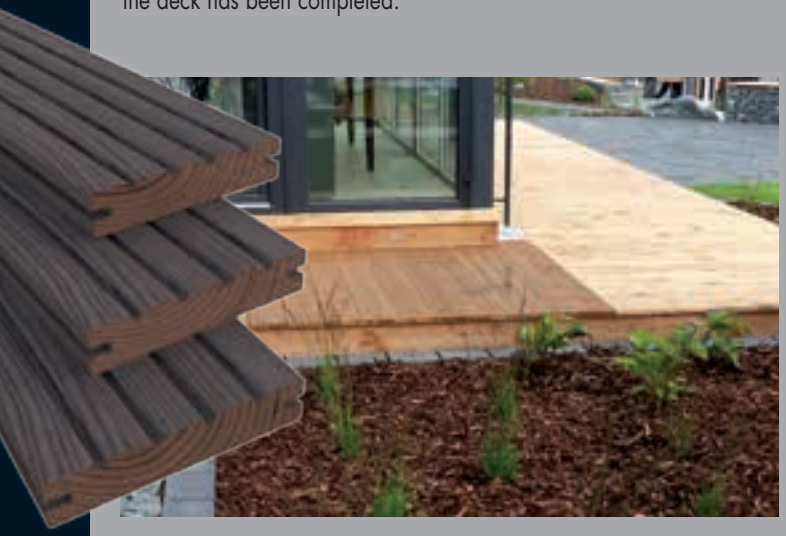
Art. no.	Dimensions	Drive	PU
945969	4,2 x 22 mm	TX20	100

- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

T-Stick

T-Stick – hidden fastening of deck boards

The T-Stick is inserted between two wood boards and fastened in the board groove with a steel plate. The result is an attractive wood surface without visible screw heads. The board clearance is maintained automatically by the T-Stick. The clearance of 9 mm to the substructure enables good ventilation, and this prevents waterlogging. The service life is therefore affected positively.
If Eurotec's laying specifications are complied with, the T-Stick enables the boards to be adjusted easily before they are screwed down firmly. After screwing, the boards are absolutely firm. If a board has to be replaced, the system makes this possible even after the deck has been completed.



Note: *"Only suitable for dimensionally stable timbers and WPC."*

Art. no.	Stainless steel plate	Material	PU
111853	A2	Plastic, black	125
111855	A4	Plastic, black	125

Using the T-Stick

Start with the start glider or StarterClip

Aligning and fixing the boards

Excellent substructure ventilation

Advantages:

Screwed boards can be replaced easily even after the deck has been completed!

Realigning is possible at any time, as well as replacing individual boards. When they are screwed tight, the boards have a safe and firm seat.

Material description: the T-Stick comprises a glass fibre reinforced, weather-resistant plastic cross with a stainless steel plate and a stainless steel screw.

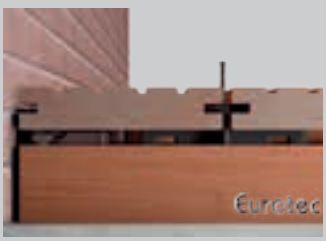
There are two design variants:

1) **Stainless steel plate** for normal external use
2) **Stainless steel plate A4** for chlorous and saline atmospheres (eg swimming pools, seawater) and in woods with increased tanning acid content (eg Robinia, oak)

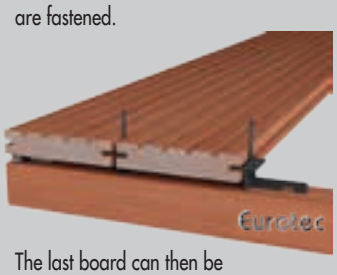
Fast laying

The T-Stick fastening system can be used immediately. If the StarterClip is used, the start board is screwed invisibly as well, pilot-drilling not necessary; the same applies to the end board.
Once the start board has been laid, the next board is put into position, aligned and fixed. Insert the T-Stick with the plate into the wood board groove, screw the screw in slightly to fix. After fixing the board, you can screw it in place.

Make sure that your cordless screwdriver's torque is set correctly so that you never over-tighten the screws.

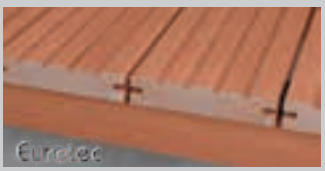


Align and fix the next board, screw down with the **T-Stick** until all boards are fastened.



The last board can then be fastened with the **StarterClip.**

A wood deck without visible screw heads.



This fastening system is suitable exclusively for deck boards with a side groove.

Accessories Aids for laying deck boards

TX bit ¼" x 25 mm

Art. no.	Size	PU	PU2
945852	TX 15	10	10 x 10
945853	TX 20	10	10 x 10
945854	TX 25	10	10 x 10
945855	TX 30	10	10 x 10
945856	TX 40	10	10 x 10

TX bit ¼" x 50 mm

Art. no.	Size	PU
945975	TX 15	20
945976	TX 20	20
945977	TX 25	20
945978	TX 30	20
945979	TX 40	20

Bit box, specially made for wood construction

31 TX bits and 1 quick-change bit holder in a practical box with a belt clip.

32-piece

- 5 x TX10 white
- 5 x TX15 brown
- 5 x TX20 yellow
- 5 x TX25 blue
- 5 x TX30 red
- 6 x TX40 green
- 1 x quick-change bit holder

Art. no.	PU
945857	Piece

Quick-change bit holder

The bit holder from Eurotec is an ideal aid for all craftsmen. Once the bit is inserted into the bit holder, it can no longer fall out of its own accord.

Can be used with all 1/4" x 25 mm bits.

Advantage: A secure hold in every position!

Art. no.	PU*
945850	Piece

* Bit supplied separately

Drill-Stop, countersinking for deck screws

For Terrassotec Ø 5 and 5.5 mm, Hapatec Ø 5 mm and Hapatec Heli Ø 5 mm

a) Drilling diameter x drilling depth

Pilot drilling is strongly recommended for fastening tropical woods/hardwoods. This is advisable even with the relatively easily splittable Douglas fir, and when screwing close to wood cut against the grain.

- Boring and countersinking in a single pass
- Screwing torque for inserting Terrassotec and Hapatec screws is greatly reduced, ie no more shearing of the screws, above all with the combination hardwood/stainless steel V2A or V4A.
- Perfect seat of the screw head

Art. no.	Dimensions	Material	Stopper collar	PU
945986	Ø 4,7 x 25 mm	Hard plastic/steel	orange	Piece

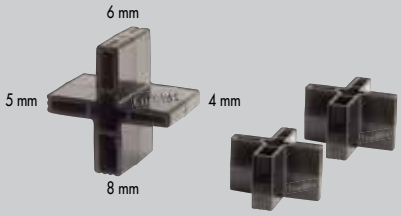
Screw Stop, Screw coupling with depth stopper

The Screw Stop is the ideal solution for driving screws to an even depth into the wood. In this way, your deck will be given an attractive, even surface pattern. You adjust the required screwing depth with the infinitely adjustable depth stopper. When this is reached, the drive uncouples and the screw stops.
You do not have to start again to adjust the seat of the screw head.

Art. no.	Dimensions	Material	PU
500000	Ø 27 x 80 mm	Hard plastic/steel	Piece

Spacer

This spacer can be used to set 4 different joint sizes when laying boards (4, 5, 6 and 8 mm)



Art. no.	Dimensions w x h	Material	PU
945381	40 x 25 mm	Plastic, black	25

Tenax spacer

If deck boards are to be screwed directly, ie visibly, the Tenax serves as a spacer to the underlay to prevent waterlogging in the joint. By placing the boards on top, the joint gap of 6 mm and the clearance to the substructure are set.

- Optimum back ventilation
- Optimum clearance

Art. no.	Dimensions	Material	PU
945968	11 x 30 x 86 mm	Plastic, black	300

Tension clamp, incl. detachable plastic jaws

The tension clamp is an essential aid for laying deck boards. Use at least 4 tension clamps to bring the boards into shape along their whole length.
Along with the spacers, for example, this achieves an even joint pattern with straight deck boards.

Art. no.	Dimensions	Material	PU
945380	270 x 830 x 55 mm	Hard plastic/steel	Piece

Terrassotec

Advantages of Terrassotec

- Reduced splintering through special head
- The screw geometry reduces the danger of splitting, but pilot drilling is recommended in particular for hardwoods and in deck and façade construction!
Check the information from the board manufacturer.

Terrassotec, hardened stainless steel

Art. no.	Dimensions	Drive	PU
905530	5,5 x 50 mm	TX25 ●	200
905529	5,5 x 60 mm	TX25 ●	200
905531	5,5 x 70 mm	TX25 ●	200
905538	5,5 x 80 mm	TX25 ●	200
905545	5,5 x 90 mm	TX25 ●	200
905546	5,5 x 100 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Terrassotec, V4A

Art. no.	Dimensions	Drive	PU
905555	5,5 x 50 mm	TX25 ●	100
905556	5,5 x 60 mm	TX25 ●	100
905557	5,5 x 70 mm	TX25 ●	100
905558	5,5 x 80 mm	TX25 ●	100
905547	5,5 x 90 mm	TX25 ●	100
905548	5,5 x 100 mm	TX25 ●	100

- Rust-resistant and limited resistance to acid
- Suitable for use with woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

Terrassotec, V2A

Art. no.	Dimensions	Drive	PU
905539	5,5 x 50 mm	TX25 ●	200
905540	5,5 x 60 mm	TX25 ●	200
905541	5,5 x 70 mm	TX25 ●	200
905542	5,5 x 80 mm	TX25 ●	200

- Limited resistance to rust, not acid-resistant, relatively soft
- Not suitable for use in chlorous atmospheres

Terrassotec, hardened stainless steel, antique

Art. no.	Dimensions	Drive	PU
B905530	5,5 x 50 mm	TX25 ●	100
B905529	5,5 x 60 mm	TX25 ●	100
B905531	5,5 x 70 mm	TX25 ●	100

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088

Splintering

Pilot-drilling + Terrassotec screw

No splintering, no shearing!

Pilot drilling with the Drill-Stop and the specially developed head geometry of Terrassotec screws prevents splintering to the greatest extent.

The screws can be prevented from shearing thought the use of the distance strips.

Terrassotec, V4A antique

Art. no.	Dimensions	Drive	PU
B905555	5,5 x 50 mm	TX25 ●	100
B905556	5,5 x 60 mm	TX25 ●	100
B905557	5,5 x 70 mm	TX25 ●	100
B905558	5,5 x 90 mm	TX25 ●	100
B905559	5,5 x 100 mm	TX25 ●	100

- Rust-resistant and limited resistance to acid
- Suitable for use with woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

Drill-Stop for:

Terrassotec	Ø 5 and 5,5 mm
Hapatec	Ø 5 mm
Hapatec Heli	Ø 5 mm

Wood deck = pilot-drilling

When building a wood deck using premium woods pilot-drilling and pre-counterboring is recommended in all circumstances. This applies to soft coniferous wood as well as to hardwood.

PRACTICAL:

Here's everything you need.

Terrassotec screws, Ø 5,5 mm
Sales unit in bucket with 500 pieces

incl. Drill-Stop

incl. TX 25 Bit

Edelstahl Rostfrei

500 pieces


Eurotec

Hapatec

bauaufsichtlich Zulassungs-Nr. Z-9.1-661 zugelassen

ETA CE Europ. Techn. Zulassung European Technical Approval ETA-11/0024

Hapatec

Panel fastener hardwood, stainless steel, hardened

Art. no.	Dimensions	Drive	PU	Box contents n x PU
111803	4,0 x 30 mm	TX15	500	18 x 500
111810	4,0 x 40 mm	TX15	500	18 x 500
111821	4,0 x 45 mm	TX15	500	18 x 500
111811	4,0 x 50 mm	TX15	500	18 x 500
111812	4,0 x 60 mm	TX15	500	18 x 500
904569	4,5 x 45 mm	TX20	200	19 x 200
111813	4,5 x 50 mm	TX20	200	19 x 200
111814	4,5 x 60 mm	TX20	200	19 x 200
111815	4,5 x 70 mm	TX20	200	19 x 200
111816	4,5 x 80 mm	TX20	200	19 x 200
100048	5,0 x 40 mm	TX25	200	24 x 200
100049	5,0 x 45 mm	TX25	200	24 x 200
111817	5,0 x 50 mm	TX25	200	24 x 200
111818	5,0 x 60 mm	TX25	200	19 x 200
111819	5,0 x 70 mm	TX25	200	18 x 200
111820	5,0 x 80 mm	TX25	200	18 x 200
111888	5,0 x 90 mm	TX25	200	18 x 200
111889	5,0 x 100 mm	TX25	200	18 x 200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised

Hapatec »antik«

Panel fastener hardwood, stainless steel, hardened

Art. no.	Dimensions	Drive	PU	Box contents n x PU
B111817	5,0 x 50 mm	TX25	200	24 x 200
B111818	5,0 x 60 mm	TX25	200	19 x 200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised

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Hapatec Heli V4A

EDELSTAHL Rost frei

Art. no.	Dimensions	Drive	PU	Box contents n x PU
100059	4,5 x 50 mm	TX20	200	19 x 200
100055	4,5 x 60 mm	TX20	200	19 x 200
100056	4,5 x 70 mm	TX20	200	19 x 200
100057	4,5 x 80 mm	TX20	200	19 x 200
100051	5,0 x 50 mm	TX25	200	19 x 200
100052	5,0 x 60 mm	TX25	200	19 x 200
100053	5,0 x 70 mm	TX25	200	18 x 200
100054	5,0 x 80 mm	TX25	200	18 x 200
100058	5,0 x 100 mm	TX25	200	18 x 200

- Resistant to rust, limited resistance to acid
- Suitable for woods containing tanning agents and saline atmospheres
- Not suitable for use in indoor swimming pools

The special screw geometry reduces the screwing torque.
This reduces the danger of the shearing of the relatively soft V4A stainless steel screw.

Terrassotec

Can be combined with EPDM façade tape
see p. 76

bauaufsichtlich Zulassungs-Nr. Z - 9.1 - 661 zugelassen

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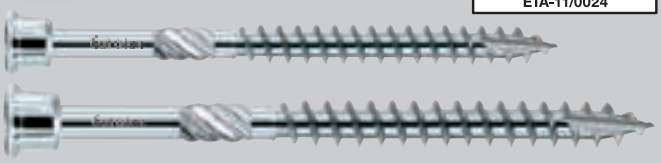
Advantages of Terrassotec:

- Reduced splintering through special head
- With self-milling rib for sinking easily in all wood types
- The screw geometry reduces the danger of splitting, but pilot drilling is recommended in particular for hardwoods and in deck and façade construction!

Check the information from the board manufacturer.

Which screw steel for which timber?

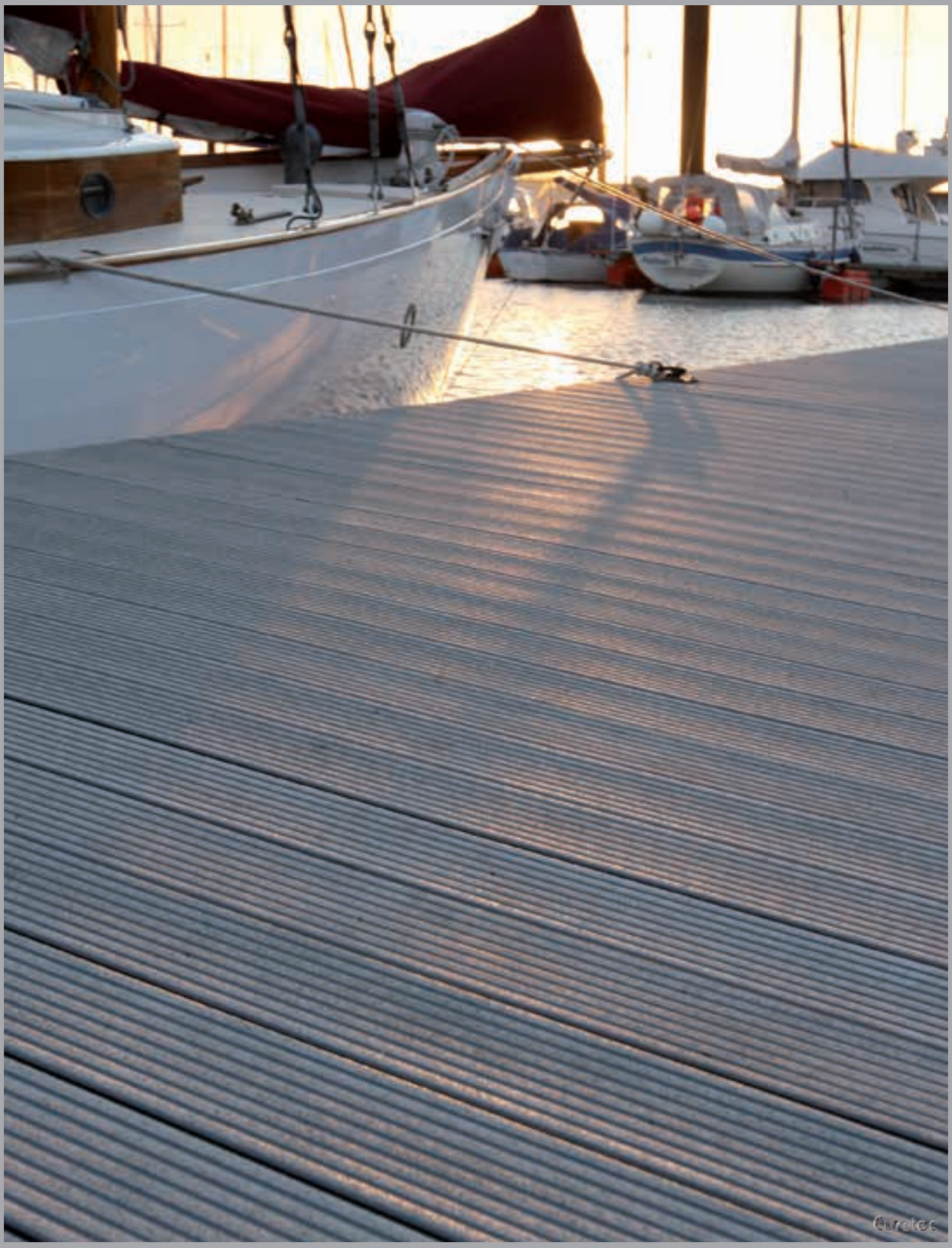
Please refer to p. 81.



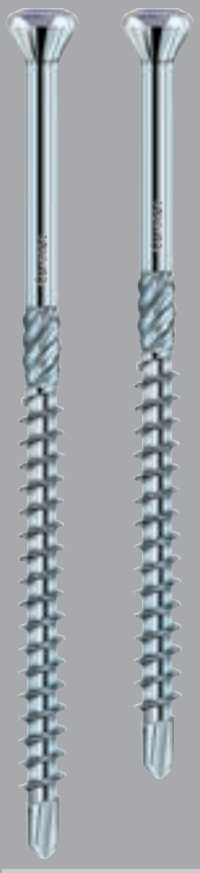
Terrassotec, stainless steel, hardened

Art. no.	Dimension	Drive	PU 1	Box contents n x PU 1
905535	4,0 x 40 mm	TX15	500	18 x 500
905536	4,0 x 50 mm	TX15	500	18 x 500
905537	4,0 x 60 mm	TX15	500	12 x 500
905528	4,5 x 45 mm	TX20	200	19 x 200
905520	4,5 x 50 mm	TX20	200	19 x 200
905521	4,5 x 60 mm	TX20	200	19 x 200
905522	4,5 x 70 mm	TX20	200	19 x 200
905527	5,0 x 45 mm	TX25	200	24 x 200
905523	5,0 x 50 mm	TX25	200	19 x 200
905524	5,0 x 60 mm	TX25	200	19 x 200
905525	5,0 x 70 mm	TX25	200	18 x 200
905526	5,0 x 80 mm	TX25	200	18 x 200
905544	5,0 x 90 mm	TX25	200	18 x 200
905543	5,0 x 100 mm	TX25	200	18 x 200

- Limited resistance to rust, not acid-resistant
- 10 years experience without corrosion problems with suitable woods
- Not suitable for woods containing high amounts of tanning agents, such as, eg, cumaru, oak, merbau, robinia, etc.
- Not suitable for use in chlorous atmospheres
- Stainless steel in accordance with DIN 10088
- 60% greater breaking torque than A2 and A4
- Hardened stainless steel can be magnetised



Hobotec ornamental head, hardened stainless steel



The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

Particularly suitable for brittle woods

Not suitable for tannin-rich woods such as cumarú, oak, merbau, robinia, etc.

Can be combined with EPDM façade tape see p. 76

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Application:

- Façades
- Fences
- Decks

Hobotec ornamental head, hardened stainless steel

Art. no.	Dimension	Drive	PU
945040	4,0 x 40	TX 15	500
945653	4,0 x 45	TX 15	500
945041	4,0 x 50	TX 15	500
945042	4,0 x 60	TX 15	500
945043	4,0 x 70	TX 15	500
945044	4,0 x 80	TX 15	500
945045	4,5 x 40	TX 20	200
945046	4,5 x 45	TX 20	200
945047	4,5 x 50	TX 20	200
945048	4,5 x 60	TX 20	200
945049	4,5 x 70	TX 20	200
945050	4,5 x 80	TX 20	200
945051	5,0 x 50/30	TX 25	200
945052	5,0 x 60/36	TX 25	200
945053	5,0 x 70/42	TX 25	200
945054	5,0 x 80/48	TX 25	200
945055	5,0 x 90/54	TX 25	200
945056	5,0 x 100/60	TX 25	200

EPDM façade tape

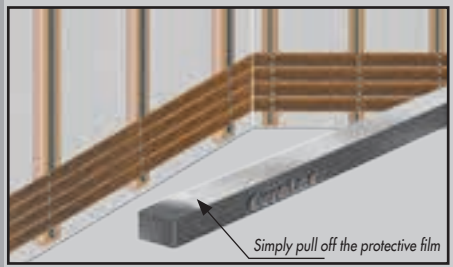
Art. no.	Dimension H x W x L	PU
954041	8,0 x 10,0 x 9.750 mm	10

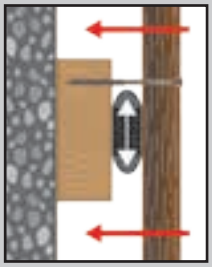
The EPDM façade tape protects the timbers of your façade substructure against moisture and thus aids constructive timber protection. It is tear-proof, durable and easy to fasten thanks to an adhesive film. The façade tape is supplied as a roll and can be cut to length individually.

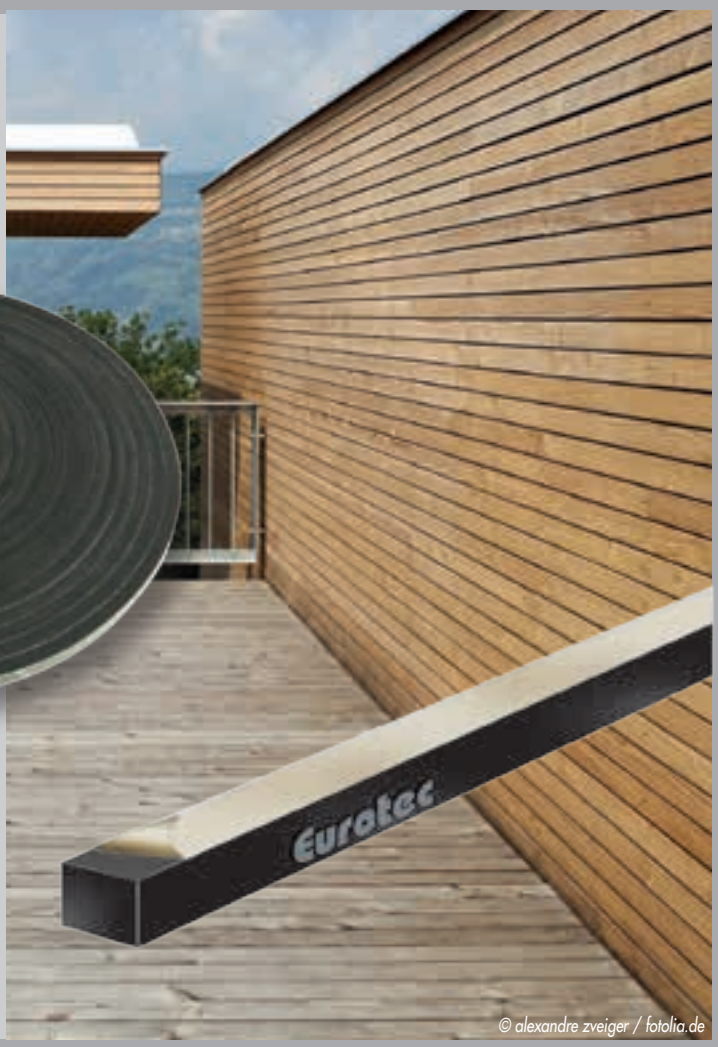
Especially suited to:
Hapatec Heli, A4 stainless steel,
Terrassotec, hardened stainless steel,
Hobotec, ornamental head,
Hobotec screw,
Paneltwistec, A4 stainless steel

Can be combined with EPDM façade tape see p. 76

Also suitable for the deck substructure.







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Hobotec screws

Hobotec screws

Hobotec screws enable simple, fast and clean connections of wood to wood. These screws are used in particular in applications where there is an increased danger of cracking and splitting. The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

Specially suitable for:
applications in model construction, stairs construction, façade construction for carpentry work, joinery and roofing.

Advantages:
- No pilot drilling required
- No cracking or splitting in narrow edge areas
- No hammering of the screws through Tec drive

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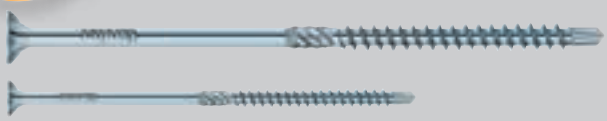

Hobotec screw,
Stainless steel, hardened

Art. no	Dimension	Drive	PU	Box contents n x PU
903323	4,0 x 30 mm	TX15	500	19 x500
110299	4,0 x 40 mm	TX15	500	18 x500
110300	4,0 x 45 mm	TX15	500	18 x500
110301	4,0 x 50 mm	TX15	500	18 x500
110302	4,0 x 60 mm	TX15	500	18 x500
110319	4,5 x 40 mm	TX20	200	19 x200
944839	4,5 x 45 mm	TX20	200	19 x200
110303	4,5 x 50 mm	TX20	200	19 x200
110304	4,5 x 60 mm	TX20	200	19 x200
110305	4,5 x 70 mm	TX20	200	19 x200
110306	4,5 x 80 mm	TX20	200	19 x200
110307	5,0 x 50 mm	TX25	200	24 x200
110308	5,0 x 60 mm	TX25	200	19 x200
110309	5,0 x 70 mm	TX25	200	18 x200
110310	5,0 x 80 mm	TX25	200	18 x200
110311	5,0 x 90 mm	TX25	200	18 x200
110312	5,0 x 100 mm	TX25	200	18 x200
110313	6,0 x 80 mm	TX25	100	24 x100
110314	6,0 x 90 mm	TX25	100	24 x100
110315	6,0 x 100 mm	TX25	100	19 x100
110316	6,0 x 120 mm	TX25	100	18 x100
110317	6,0 x 140 mm	TX25	100	18 x100
110318	6,0 x 160 mm	TX25	100	18 x100

Application range for screws made of hardened stainless steel:
- This steel combines the best properties of carbon and stainless steels. Conditionally rust-resistant like an A2 with the high mechanical values of a galvanised steel. Hardened stainless steel is not acid-resistant, which is why it is also not suitable for fastening wood containing tanning agents (eg oak).
- Hardened stainless steel can be magnetised.
- Stainless steel in accordance with DIN 10088.

For further information on possibilities for using hardened stainless steel see p. 81.

Hobotec ornamental head, hardened stainless steel, blue/yellow galvanised, brass-plated


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These screws are used in particular in applications where there is a high risk of splitting. The new type of thread and the innovative drill point enable a clean fit and high extraction resistance values.

e.g. when laying wood floors, wood mouldings, etc.

Hobotec ornamental head, steel, blue zinc-plated

Art. no.	Dimensions	Drive	PU
110287	3,2 x 20 mm	TX 10 ○	500
110288	3,2 x 25 mm	TX 10 ○	500
110289	3,2 x 30 mm	TX 10 ○	500
110290	3,2 x 35 mm	TX 10 ○	500
110291	3,2 x 40 mm	TX 10 ○	500
110292	3,2 x 50 mm	TX 10 ○	500
110293	3,2 x 60 mm	TX 10 ○	500

Also available with head painted white:

Art. no.	Dimensions	Drive	PU
w110288	3,2 x 25 mm	TX 10 ○	500
w110289	3,2 x 30 mm	TX 10 ○	500
w110290	3,2 x 35 mm	TX 10 ○	500
w110291	3,2 x 40 mm	TX 10 ○	500
w110292	3,2 x 50 mm	TX 10 ○	500
w110293	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, hardened stainless steel

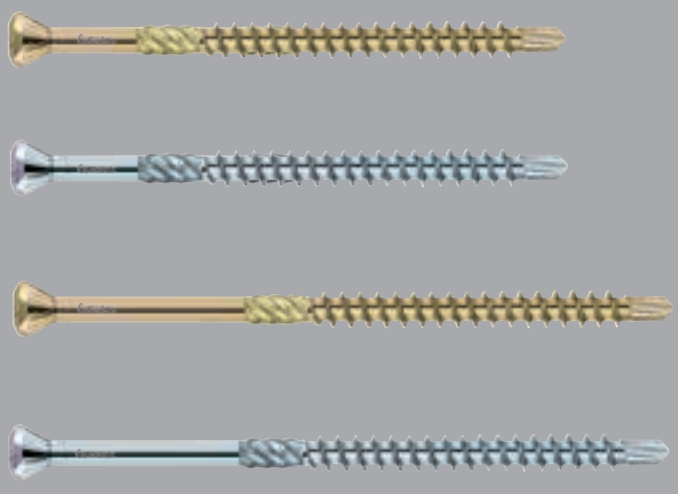
Art. no.	Dimensions	Drive	PU
900782	3,2 x 25 mm	TX 10 ○	500
110294	3,2 x 30 mm	TX 10 ○	500
110295	3,2 x 35 mm	TX 10 ○	500
110296	3,2 x 40 mm	TX 10 ○	500
110297	3,2 x 50 mm	TX 10 ○	500
110298	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, brass-plated

Art. no.	Dimensions	Drive	PU
903436	3,2 x 25 mm	TX 10 ○	500
903437	3,2 x 30 mm	TX 10 ○	500
903438	3,2 x 35 mm	TX 10 ○	500
903439	3,2 x 40 mm	TX 10 ○	500
903440	3,2 x 50 mm	TX 10 ○	500
903441	3,2 x 60 mm	TX 10 ○	500

Hobotec ornamental head, steel, yellow zinc-plated

Art. no.	Dimensions	Drive	PU
110280	3,2 x 20 mm	TX 10 ○	500
110281	3,2 x 25 mm	TX 10 ○	500
110282	3,2 x 30 mm	TX 10 ○	500
110283	3,2 x 35 mm	TX 10 ○	500
110284	3,2 x 40 mm	TX 10 ○	500
110285	3,2 x 50 mm	TX 10 ○	500
110286	3,2 x 60 mm	TX 10 ○	500
944778	4,2 x 70 mm	TX 15 ●	200
944779	4,2 x 80 mm	TX 15 ●	200

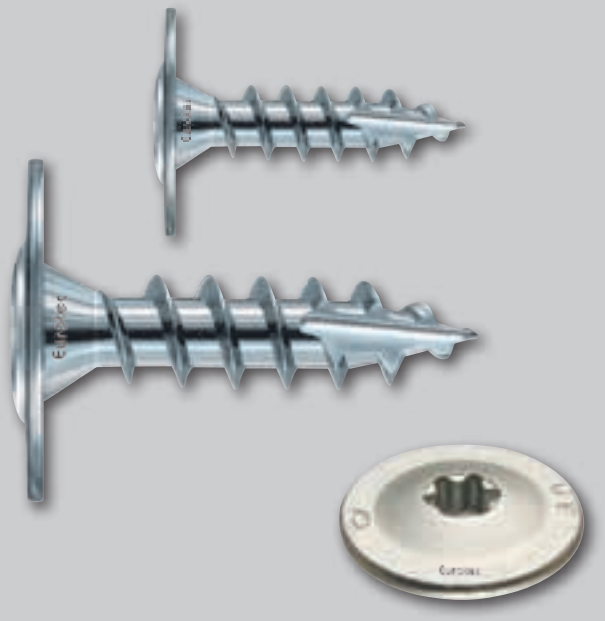


Fence post connection screw and interwoven fence fittings

Fence post connection screw

- Flange buttonhead screws, Ø 8 mm, head diameter 22 mm
- Special tip geometry reduces the splitting effect, no pilot drilling required
- Special protection against corrosion
- For use, eg, in fence and pergola construction

Not suitable for woods containing tanning agents.

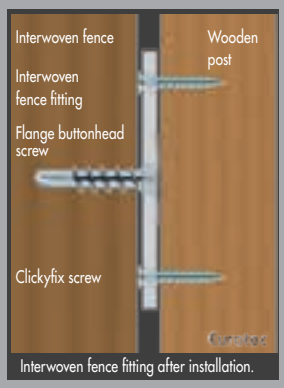


Art. no.	Dimension	Drive	PU
r903056	8 x 40 mm	TX 40 ●	100
r903057	8 x 50 mm	TX 40 ●	100
975594	10 x 40 mm	TX 40 ●	50
975595	10 x 50 mm	TX 40 ●	50

Interwoven fence fitting set

	Art. no.	Dimension	Material	Set
Set 1*	900335	40 x 65 mm	V2A	1
Set 2*	900336	40 x 65 mm	blue galvanized	1

* A set consists of 4 fittings (V2A/blue galvanized) + 16 ClickyFix + 4 interwoven fence screws



Interwoven fence fitting after installation.

Screw the interwoven fence fitting with an interwoven fence screw at the head to the fence element. We recommend at least two fittings per side, ie 4 fittings for each fence element.

Now fasten the fence panel with the fitting to the wooden post.
We recommend using 4 Clickyfix screws per fitting.

HINTS FROM THE EXPERTS:

WHAT YOU SHOULD TAKE INTO ACCOUNT WHEN BUILDING A WOOD DECK

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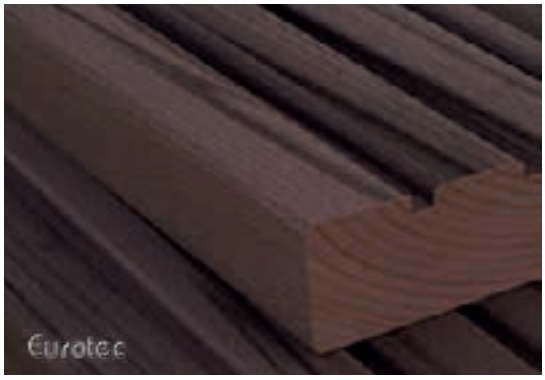
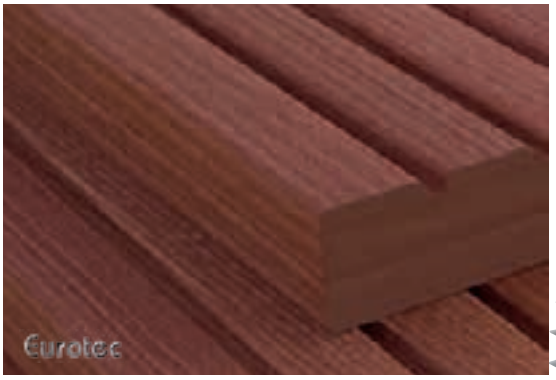
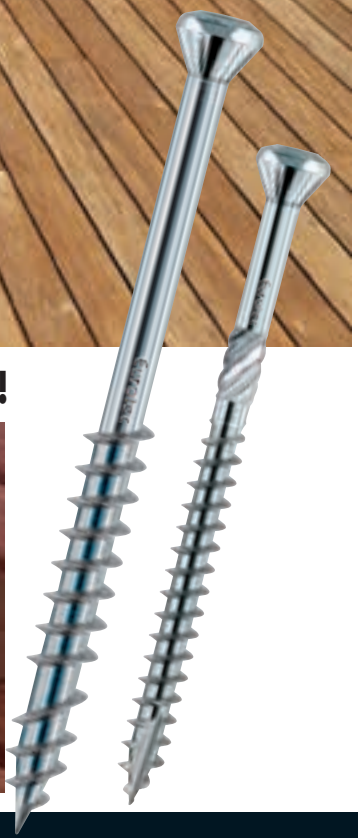
Which screw steel for which wood? We will be pleased to help you!







Selecting screw steels for their corrosion resistance

Step by step:
Select the right screw material for your project by observing the following principles. Go through the three points one after the other. The right material is marked for points 1 and 2 with (X) at least, or even better with X. In the event of additional chemical stress, point 3 must conform as well.

1. What's the component's situation? Is it exposed to the weather (fence) or is it protected (ceiling beam)?
2. Which wood is being fastened? Is it simple construction wood, or tannin-rich tropical wood?
3. Are there any additional stresses in situ that encourage corrosion? Location near the sea? Heavy industry, etc.?

Example: fastening a façade made of Douglas fir
1. Use class = 3, because exposed to weather. Façade = optical requirements. → at least C1
2. Douglas fir → min. C1, but an A2 or A4 is to be preferred.
3. This point is not required, because there are no further external stresses.
Selection: C1 is possible, but A2 or A4 is to be preferred.

Steel group	Carbon steel		Stainless steel, martensite	Stainless steel, austenite		
	Electroplated	Special coating	C1	A2	A4	A5
Product examples	**Paneltwistec** blue/yellow **Hobotec** blue/yellow	**Paneltwistec 1000 Topduo**	**Terrassotec** stainless steel, hardened **Hapatec**	**Terrassotec V2A**	**Terrassotec V4A Hapatec Heli**	**Uniq-Co**
1. Position of the component?						
NKL 1 [a]	X	X	X	X	X	X
NKL 2 [a]	X	X	X	X	X	X
NKL 3 [a]	-	(X) [b]	X	X	X	X
2. Which wood? [c]						
Structural timber, wood materialsd [d]	X	X	X	X	X	X
Beech (red beech)	X	X	X	X	X	X
Douglas fir	-	-	(X) [e]	X	X	X
Spruce	X	X	X	X	X	X
Pine	X	X	X	X	X	X
Larch	-	-	(X) [e]	X	X	X
Coniferous wood, pressure-impregnated	(X) [b]	(X) [b]	(X) [b]	(X) [b]	X	X
Red cedar	-	-	-	(X) [f]	X	X
Fir	X	X	X	X	X	X
Thermotreated wood from coniferous wood	-	-	-	(X) [f]	X	X
Abachi	-	-	-	(X) [f]	X	X
Afzelia, doussié	-	-	-	(X) [f]	X	X
Azobé, bongossi	-	-	-	-	X	X
Bangkirai, balau	-	-	(X) [e]	X	X	X
Bilinga	-	-	-	(X) [f]	X	X
Courbaril, jatobá	-	-	-	-	X	X
Cumarú	-	-	-	(X) [f]	X	X
Sweet chestnut	-	-	-	-	X	X
Oak	-	-	-	-	X	X
Eukalyptus	-	-	-	-	X	X
Garapa	-	-	-	-	X	X
Ipé	-	-	(X) [e]	X	X	X
Iroko	-	-	(X) [e]	X	X	X
Itaúba	-	-	-	-	X	X
Kosipo	-	-	-	-	X	X
Massaranduba	-	-	-	-	X	X
Merbau	-	-	-	-	X	X
Robinie	-	-	-	-	X	X
Thermotreated ash	-	-	-	(X) [f]	X	X
3. Additional chemical load?						
Constant condensationg [g]	-	-	-	(X) [b]	X	X
Salt load [h]	-	-	-	(X) [b]	X	X
Aggressive atmospheres [k]	-	-	-	-	(X) [m]	X
Chlorous atmospheres [l]	-	-	-	-	-	X

a) Use classes in accordance with DIN 1052:2008 and EN 1995:2008. NKL 1 - components in structures enclosed on all sides, partly heated. NKL 2 - components in roofed, open structures without direct weather exposure. NKL 3 - freely weathered constructions.
b) Recommended only for less significant fastening points, or for temporary objects, or if there are no visual requirements.
c) Pilot-drilling and, where applicable, pre-countersinking, is recommended in general for hardwoods. This also applies for coniferous woods in deck and façade construction.
d) Untreated: spruce, fir, pine, composite timber, KVH®, veneering laminated wood, solid wood, etc., plywood, OSB, fibreboards, cement-bound and gypsum fibreboards, etc.
e) Using this wood with C1 has not led to any problems with corrosion or wood discolouring after 10 years' experience. However, this cannot be ruled out completely, depending on the origin of the wood. Please contact your wood dealer as well.
f) Use of A4 is recommended. Please contact your wood dealer as well.
g) Uninterrupted condensation in a water vapour atmosphere with only slight impurities.
h) Building components close to roads heavily affected by salting in winter, coastal areas, in offshore and other industrial installations.
k) For example: building components in road tunnels, pig stalls or in other aggressive atmospheres, possibly with additional higher air humidity.
l) Building components in indoor swimming pools or other chlorous atmospheres.
m) Use to be checked in the individual case.

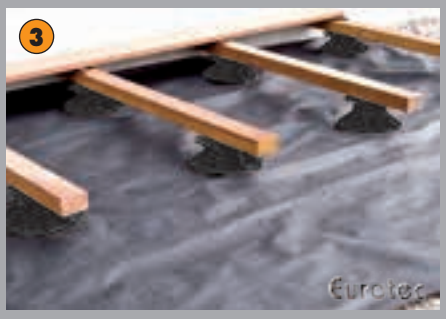
This overview cannot take account of all applications. Materials can be assigned to more unfavourable conditions as well in an individual case.

Information on building a deck

Substructure

For a stable and durable hardwood deck it is very important to build the substructure correctly. On the one hand this has the job of supporting the actual deck, so that an even surface is retained even under load. On the other hand, it serves for constructive wood protection, in that it forms a clearance between the ground and the deck flooring/bearing beams. In this way, the wood is not exposed to either waterlogging or increased wood moisture in the earth-air zone. These conditions, coupled with the use of unsuitable wood types, would be the nutrient medium for organisms that destroy wood. In the following sections we want to show you some approaches for constructing a deck substructure.

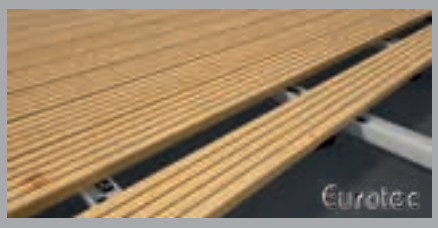
A supporting base is always required. This can be compressed earth, gravel, or similar. The foundations are then placed on this. The bearer beams are placed on them. The foundations form the above-mentioned required clearance between the earth and the wood and bear the ensuing loads.



Here are three examples of how substructures are implemented:
1. A strip footing is cast in concrete: this is very expensive and requires very accurate work. (See Fig. 1)
2. Concrete elements are laid on a gravel bed: these are quite heavy to transport and position. (See Fig. 2)

A problem becomes clear in types 1 and 2: you have to work very accurately to install the upper edges of the foundations at exactly the same height. Since this is not usually possible, the joists will require spacers at a later stage. **Rolfi spacers** (p. 41+ 42) are particularly well-suited to this.

3. **Adjustable feet from Eurotec:** the adjustable feet can be placed directly onto compacted subsoil or concrete. This removes the need to create expensive foundations and install spacers to even out the height of the substructure timbers. The height can be adjusted steplessly, together with that of the supported joist, which is connected directly to the adjustable foot with a bracket.



Information on working with wood decks

Wood decks

Because of constantly occurring problems with the use of hardwood/tropical woods we want to point out some fundamental working guidelines that must be observed. However, we refer in general to the recommendations of your wood dealer, because there can be extreme fluctuations in the wood properties with the same wood type, above all with tropical woods. Bangkirai wood, for example, which is often used, can have very different properties, because the properties depend heavily on the source in each case. If the variety of wood properties within a range is ignored, this can lead to various problems with regard to screws breaking off.

Pilot-drilling is always better with problematic woods. These are above all hardwood/tropical woods, but also some coniferous woods that tend to crack easily, such as eg Douglas fir.

Pilot drilling prevents the wood splitting. With regard to the edge distances make sure that there is at least 6 cm clearance to the end of the board.

(Please note: because of the high internal stress the boards can also crack open later at the ends and in the middle. This also applies to thermally treated woods).

At a width of 140 mm, Bangkirai woods or other hardwood/tropical woods can swell or shrink by up to 7 mm, depending on the wood moisture. With direct screwing through the boards into the substructure we recommend using a pair of screws. If the board is fastened directly on the substructure and the board works from the centre by about 3.5 mm, this leads in some cases to the screws being sheared off. The hardwood/tropical wood does not allow the screw to absorb any movement because it can barely be compressed because of its own high density.

Although deck/wood construction screws today have a suitable deflection angle, hardwoods that are placed directly on top of each other function as shearing modules that shear the screws off if the wood swells or shrinks. (Per board half = 3.5 mm displacement, this conforms to about the inside diameter of a screw with a 5 mm thread, which is the minimum that should be used with tropical woods).

In certain circumstances, screwing in the centre of the board might be deducted from this. Unfortunately, tropical woods have an extremely high internal stress, which leads to the boards twisting (dishing), which in most cases requires pairs of screws.

However, using a spacer (eg distance strip or deck glider) between the substructure and deck board is very helpful here. This provides the screws with a possibility of bending in the direction of the working wood. The danger of shearing is greatly reduced. In addition, this clearance protects the wood from waterlogging at the support points. The ageing process is slowed down clearly.

A mistake that is frequently made is to have centre distances in the substructure that are too large. The most durable results are achieved if this clearance, and therefore the screw clearance in the lengthwise direction of the boards, is max. 60 cm.

» Another free service from Eurotec «

We always keep you up-to-date with new video clips in the Service section of our website!

Pay us a visit at
www.e-u-r-o-tec.de.

For display

PERFECTLY PRESENTED, SIMPLY AND

The Minishop and the Midishop are cost-effective and space-saving alternatives for selling Eurotec deck products.

Minishop

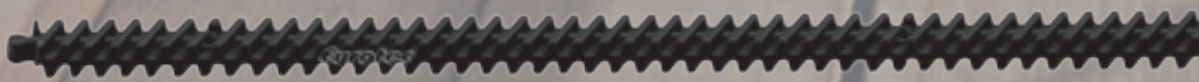
- Supplied as a mini sales unit on a europallet
- Incl. model deck as an example application
- Individually stocked with Terrassotec or Hapatec screws, incl. in bucket

Sales sample

Use the sales sample to present the advantages of the distance strip and deck glider systems quickly and understandably.

We supply everything you need to explain and present Eurotec deck products!

Offer your customers both variety and competence!

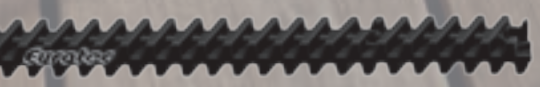


O UNDERSTANDABLY EXPLAINED!

NEW

Midishop

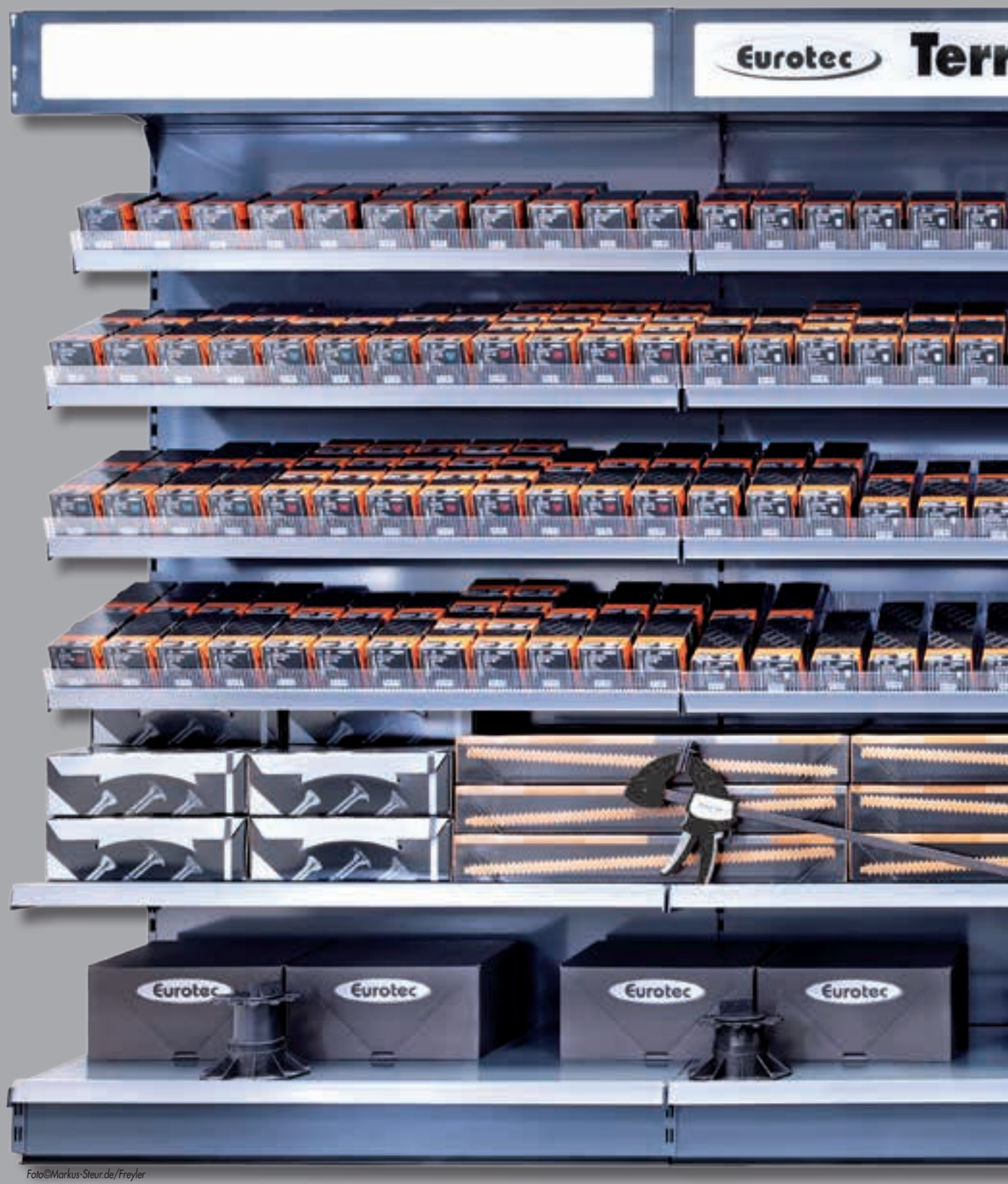
- Supplied as a midi sales unit on a europallet
- Incl. model deck as an example application
- Individually stocked with deck accessories such as Terrassotec, Rolfi, adjustable feet, deck gliders, bit sets, etc.



It's always good to have something in reserve!!

1000 pieces

The EuroTec display system



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The EuroTec display system - everything at a glance

The practical and individually combinable display system for an attractive presentation of our products in your sales area.

Display example with 3 modules, 375 cm wide, 224 cm high, 65 cm deep; individual module depth 125 cm

Product presentation in a premium display system.

- Wood construction or deck shop
- Single, double … multiple unit
- We install and set up individually for you