Eurotec®

The specialist for fastening technology

OVERVIEW
WOODEN DECKS

www.eurotec.team/en

INDEX

TERRACE CONSTRUCTION MADE EASY!

Do you have questions relating to Eurotec wooden decking?
Contact **our specialists** now!

WE WILL GLADLY ADVISE YOU!

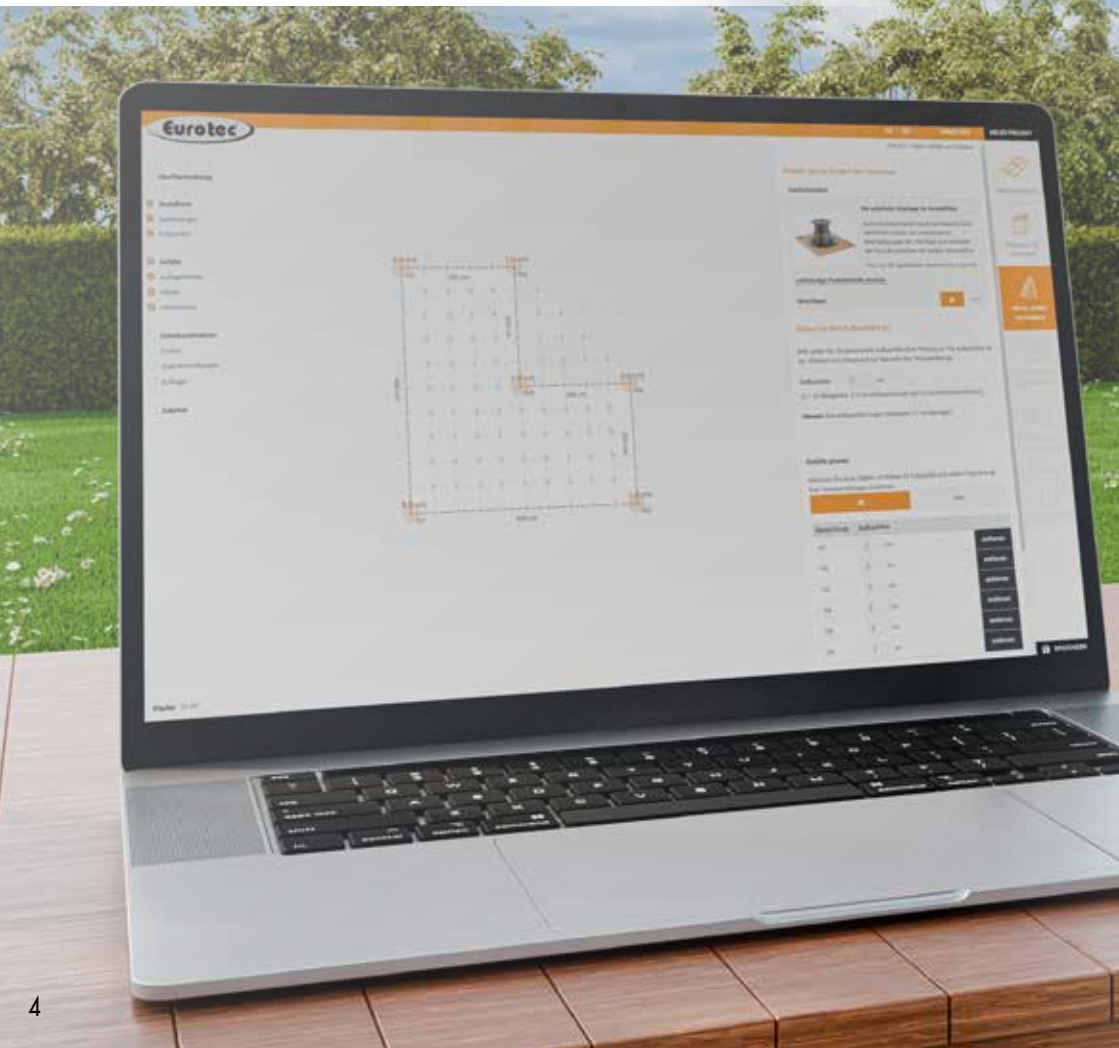
TECHNOLOGY TEAM
Tel. +49 2331 62 45-444
technik@eurotec.team

DISCOVER NOW:
OUR DECK SOFTWARE

START NOW WITHOUT REGISTERING:

Without registering, you can access all planner features and plan up to 15 m² for free. For further planning options, simply register or contact us at **terrasseplanen@eurotec.team**.

CLICK HERE FOR OUR DECK SOFTWARE:



INNOVATIVE, USER FRIENDLY AND FULL OF NEW FUNCTIONS

The terrace software to facilitate material requirements planning for terrace construction now, in addition to a general design update, features not only a super user-friendly interface, but also a host of new features. These include, in addition to the industry-standard basics, gradient and discharge planning, sketches as well as detailed product dependencies, so that you always have the best results for your material requirements planning.*

Individual designs with free planning
When selecting your basic shape, you can not only pick from the terrace geometries that are already available. You also have the option to map more complex geometries with the help of free planning.

Heights, gradients and drains
The deck software makes it easy to plan the elevation level of your building project. The elevation data is displayed systematically for each adjustable foot. Even gradients do not pose a problem for terrace planning, thanks to the customisable height points.

Planning result*
Get the best planning result for material requirements planning for your project specifications, including a downloadable PDF and the option to send your project directly as an email.

Save the code and continue later!
During the planning process, you can save your project as a link with the save function and continue working on it at a later stage.

* For the calculation, assumptions were made on the basis of the information you provided. Check the assumptions made. The specified values, type and number of fasteners are planning aids as offered. Volumes may deviate during implementation planning.

OUR EXPERTISE

2

THE RIGHT BASE
FOR ADJUSTABLE PEDESTALS

If you want to build/create a viable and permanently reliable terrace, the condition of the subsurface significantly contributes to the success of the project and should therefore be prepared carefully in advance.

If no foundations are available, we recommend to use adjustable pedestals. For a properly designed terrace construction, a load-bearing substrate made of soil, gravel, split or floor slabs is required. These can absorb arising loads in the soil. Before the substructure made of aluminium profiles or support beams are laid.

- A supporting structure is required.
- Appropriate preparations must be made for loose subsurface.
- Stake out the planned area and remove any natural soil, such as turf, rocks and weeds.
- Remove the top layer of soil that contains humus and soil-dwelling organisms in addition to inorganic substances.
- If the topsoil is removed, dig out a 20–30 cm deep bed. Fill with crushed gravel or chippings and compact each layer separately to ensure a stable substrate.
- Here, too, a gradient of 1–2% to the garden should be considered.
- Pure sands and gravels are not recommended as they are not based on the displacement of the individual grains.
- Lay concrete slabs of approx. 30 × 30 cm at the same distance as the foundation.
- A root control fleece underlay may need to be laid in order to inhibit the unwanted growth of roots and plants. The adjustment pedestals and system profiles can be laid as soon as a basis has been created.
- If there is a risk of vibrations acting on the terrace, the patio feet should be fixed in position. Furthermore, use a screw to secure any patio feet that are exposed to high frequencies.

YOU CAN FIND MORE INFORMATION ON THE SUBJECT OF SUBSTRATES IN THE **TERRACE CATALOGUE**

TECHNICAL INFORMATION

THE RIGHT SUPPORT SPACING FOR YOUR TERRACE

The load capacity is determined by the selected substructure, the distances between the adjustable pedestals/supports along the profile and the height and type of the decking.

In the following example, the information is prepared in tabular form depending on the substructure profile used and can be selected from the table corresponding to a payload of 2, 3, 4 or 5 kN/m². A recommended centre distance e is specified with the height and type of the surface covering. For example, a 25 mm larch can be installed with a 500 mm centre distance. When selecting the load capacity/payload of 2.0 kN/m² (200 kg/m²) the support spacing L must be set accordingly every 900 mm along the aluminium substructure profile with a Profi-Line adjustable pedestal with a tested compressive load of 8.0 kN.

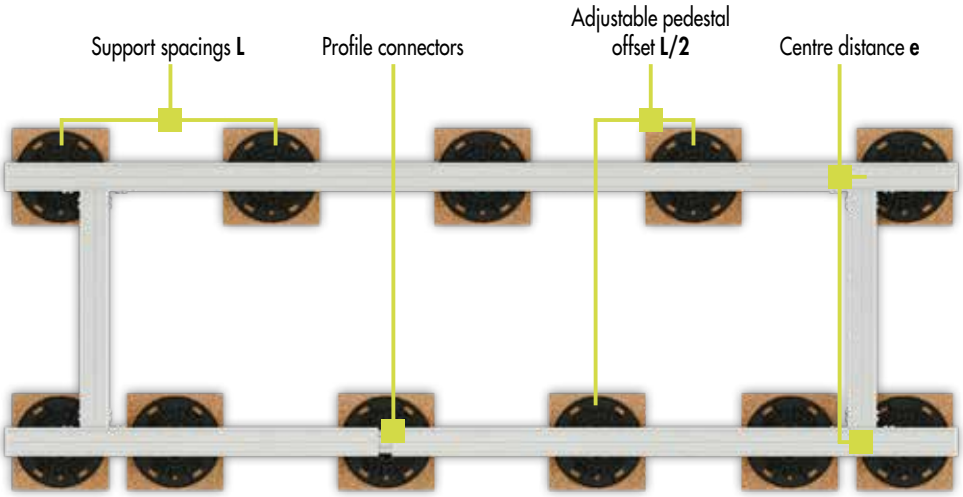
Example:

Payload [kN/m²]	Profi-Line adjustable pedestals, perm. F = 8,0 kN Centre distance e [mm] between the profiles[b)]							
	300	350	400	450	500	550	600	800
2,0	1000	1000	1000	950	900	850	850	750
3,0 [d)]	1000	950	900	850	850	800	800	700
4,0 [c)]	900	850	850	800	750	750	700	650
5,0 [c)]	850	800	800	750	700	700	650	600

Note

Payloads in accordance with DIN EN 1991-1 Roof terraces = 4 kN/m² Terraces in public spaces = 5 kN/m²

Payload in accordance with SIA 261 for balconies and roof terraces for private use = 3 kN/m²



THE CORRECT CENTRE DISTANCE
FOR YOUR TERRACE

Max. support spacing L [mm] for **EVO aluminium system profile** with adjustable pedestals[a)]

Payload [kN/m²]	Profi-Line adjustable pedestals, perm. F = 8,0 kN							
	Centre distance e [mm] between the profiles							
	300	350	400	450	500	550	600	800
2,0	1000	1000	1000	950	900	850	850	750
3,0[d)]	1000	950	900	850	850	800	800	700
4,0[c)]	900	850	850	800	750	750	700	650
5,0[c)]	850	800	800	750	700	700	650	600

Max. support spacing L [mm] for **EVO Slim aluminium system profile** with adjustable pedestals[a)]

Payload [kN/m²]	Profi-Line adjustable pedestals, perm. F = 8,0 kN							
	Centre distance e [mm] between the profiles[b)]							
	250	300	350	400	450	500	550	600
2,0	650	600	600	550	550	500	500	500
3,0[d)]	550	550	500	500	500	450	450	400
4,0[c)]	500	500	450	450	400	400	400	400
5,0[c)]	500	450	450	400	400	400	350	350

Max. support spacing L [mm] for **EVO Light aluminium system profile** with adjustable pedestals[a)]

Payload [kN/m²]	Profi-Line adjustable pedestals, perm. F = 8,0 kN							
	Centre distance e [mm] between the profiles							
	250	300	350	400	450	500	550	600
2,0	950	900	850	850	800	750	750	700
3,0[d)]	850	800	750	750	700	650	650	600
4,0[c)]	800	750	700	650	600	600	600	550
5,0[c)]	700	700	650	600	550	550	550	500

FOR MORE TABLES PLEASE CONSULT
THE TERRACE CATALOGUE

Max. support spacing L [mm] for **Eveco aluminium system profile** with adjustable pedestals[a)]

Payload [kN/m²]	Profi-Line adjustable pedestals, perm. F = 8,0 kN Centre distance e [mm] between the profiles							
	250	300	350	400	450	500	550	600
2,0	800	750	700	650	650	600	600	600
3,0[d)]	700	650	600	600	550	550	550	500
4,0[c)]	650	600	550	550	500	500	500	450
5,0[c)]	600	550	500	500	500	450	450	450

[a)] Indication of max. span at which the profile's deflection does not exceed L/300. Average board thickness of 25 mm with a specific weight of 7 kN/m³ (larch, pine, Douglas fir).
[b)] e.g.: spacing between profiles = 550 mm; payload = 2,0 kN/m² → max. span of the profile = 600 mm.
[c)] Payloads according to DIN EN 1991-1; roof terraces = 4 kN/m², patios for public use = 5 kN/m².
[d)] Load capacity according to SIA 261 for balconies and roof terraces private use = 3 kN/m²

Max. support spacing L [mm] for Aluminium Deck Support System HKP with adjustable pedestals[a)]

Bearing type	Payload kN/m²	Maximum support distances L [mm] with the adjustable pedestals of the PRO-Line series with a HKP support profile[b)]						
		300	350	400	450	500	550	600
Single-span beam L	2,0	3000	2750	2750	2500	2500	2500	2500
	3,0[e)]	2750	2500	2500	2250	2250	2250	2000
	4,0[c)]	2500	2250	2250	2000	2000	2000	2000
	5,0[c)]	2250	2000	2000	2000	1750	1750	1750
Twin-span beam L [mm]	2,0	3000	3000	3000	3000	3000	2750	2500
	3,0[e)]	3000	2750	2500	2250	2000	1750	1750
	4,0[c)]	2500	2250	2000	1750	1500	1250	1250
	5,0[c)]	2000	1750	1500	1250	1250	1000	1000
Single-span cantilever beam L [mm] / Lk [mm] [d)]	2,0	3000 / 1000	2750 / 1000	2750 / 1000	2500 / 1000	2500 / 1000	2000 / 1000	1750 / 1000
	3,0[e)]	2500 / 1000	2500 / 1000	2500 / 750	2500 / 750	2500 / 750	2000 / 750	1750 / 750
	4,0[c)]	1750 / 1000	1500 / 750	1500 / 750	1500 / 750	1500 / 750	1500 / 750	1500 / 750
	5,0[c)]	1500 / 750	1500 / 750	1500 / 750	1500 / 750	1250 / 750	1250 / 500	1250 / 500

[a)] Max. bearing clearances (L) for bearings with adjustable pedestals of the Profi-Line series with payloads of 2, 3,4 and 5 kN/m², with a mean board thickness of 25 mm and a board weight of 7 kN/m² (larch, pine, Douglas fir).
[b)] If WPC boards are used, the axis clearance e between the profiles must not exceed 400 mm!
[c)] Load capacities according to DIN EN 1991-1; roof terraces = 4 kN/m², decks for public use = 5 kN/m².
[d)] Lifting forces of up to 1 kN can be sustained on support A.
[e)] Load capacity according to SIA 261 for balconies and roof terraces private use = 3 kN/m².

Note

This table only provides an overview of load capacity. The notes on load capacity in the technical information must be observed!

HAZARDS
IN THE CONSTRUCTION OF TIMBER DECKS

In view of recurring problems with the use of hardwoods/tropical woods, we would like to take this opportunity to draw your attention to some basic processing guidelines that must be observed. In general, however, we refer you to the recommendations of your timber distributor, as **extreme variations in timber characteristics may occur within a range of timber.**

- Bangkirai woods or other hardwoods/tropical woods can swell or shrink by up to 7 mm. A pair of screws is recommended when screwing directly through the decking boards into the substructure. The hardwood/tropical wood does not allow the screw to incorporate the movement as the wood can hardly be compressed due to its high density.
- Although decking/wood construction screws dis play a corresponding bend angle, hardwoods that are laying directly on top of one another act like shearing modules that shear off the screws when the wood swells or shrinks.
- This could possibly result in a screw connection in the centre of the planks. Unfortunately, tropical woods have very high inherent tension that causes the planks to warp, which in most cases requires them to be screwed in pairs.
- It is very helpful to add a spacer (e.g. distance strips 2.0 or a deck glider) between the substructure and the decking plank. This substantially reduces the risk of shearing off. This distance also protects the wood from waterlogging at the contact points.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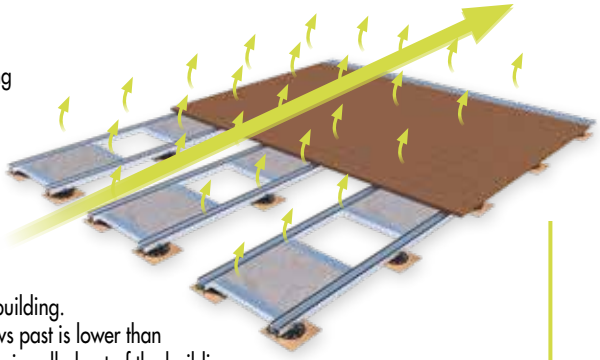
Note

Please note that the processing notes given are only recommendations and not binding assembly instructions. Each assembly has different performance requirements, e.g., locally applicable construction regulations, for which the installer is responsible.

TAKE WIND SUCTION INTO ACCOUNT

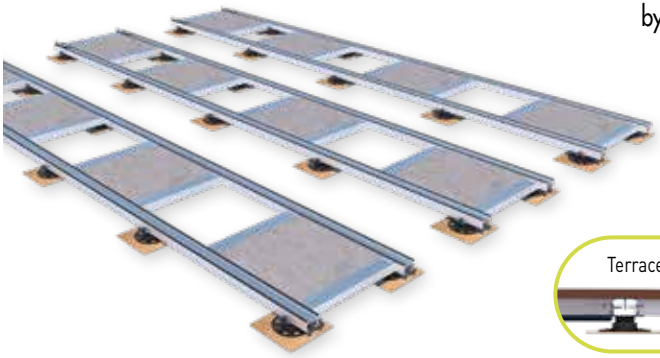
To build a roof terrace, it is vital to take wind forces into account when planning the terrace design. Wind forces have a varying impact on the terrace, depending on the building height, shape and location, and they determine the amount of wind suction that occurs. Accordingly, the terrace needs to be secured against wind suction to prevent it from lifting off or sliding.

Wind suction



Wind suction is a wind load arising from the flow of wind. It acts on surfaces, which means that all external parts of a building need to be taken into account. Wind suction occurs as the result of pressure differences between the air blowing past and the air inside or underneath parts of the building. As the pressure of the air that blows past is lower than the air of the building elements, air is pulled out of the building parts. The air flowing out of the building parts exerts pressure on these parts, so failing to take wind suction into account from the outset can result in damage being caused.

To give a terrace structure optimum protection from environment influences such as strong wind, the structure should be sufficiently weighed down. To achieve this, concrete slabs are installed in the substructure with our load brackets. The number of slabs needed varies depending on the location of the terrace. Terraces protected from the wind by buildings require fewer slabs than a roof terrace on a multi-storey building, for example. Along the edges in particular, sufficient additional slabs should be installed to ensure that undesired warpage of the structure caused by external influences is minimised.



Terrace warpage (extreme example)

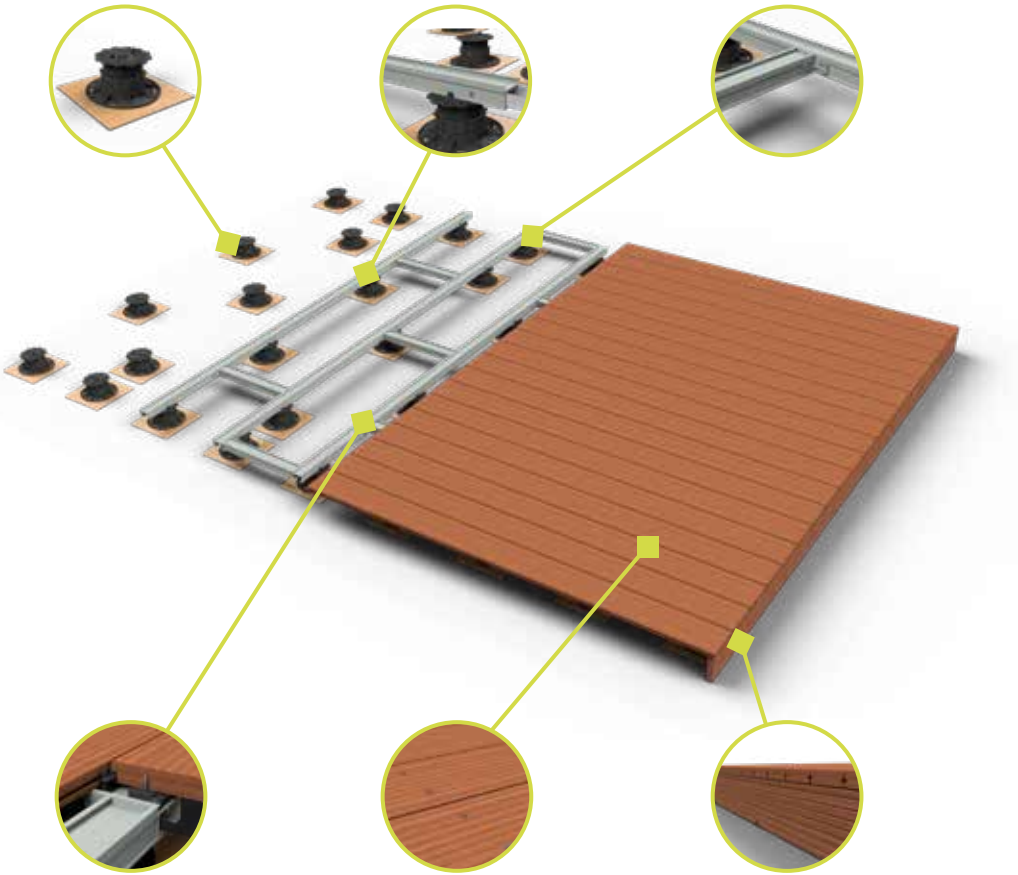
TERRACE CONSTRUCTION MADE EASY

TERRACES WITH ALUMINIUM SUBSTRUCTURES

1 Lay the cork separating layer and distribute the adjustable pedestals.

2 Place the aluminium profiles and connectors and screw them together.

3 Cross bracing with aluminium profile and corner connectors



4 **For hidden attachment:** Attach the clips to the aluminium profile and screw them in place.

4 **For visible attachment:** Attach the decking planks individually from above using screws into the aluminium profiles.

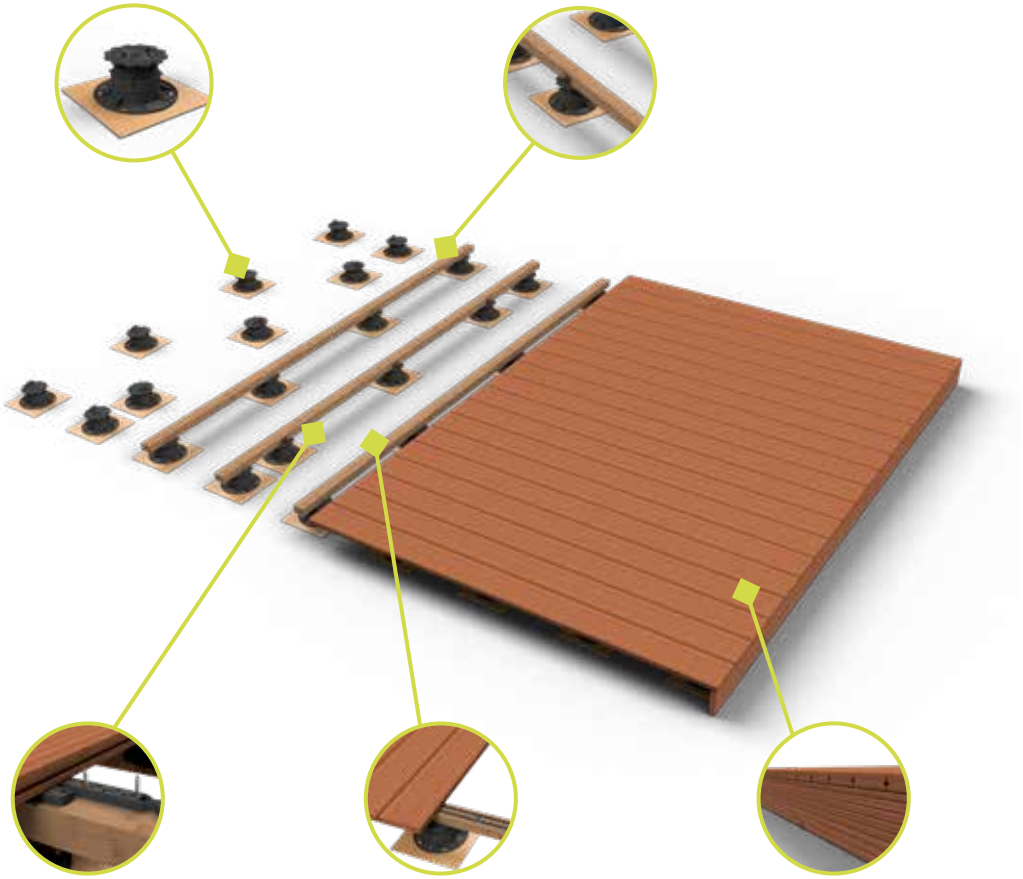
5 **Edge finish:** Decking can be attached for the edge finish using the deck fascia board mount.

TERRACE CONSTRUCTION MADE EASY

TERRACES WITH WOODEN SUBSTRUCTURE

1 Lay the cork separating layer and distribute the adjustable pedestals.

2 Lay the wood profiles and screw them in place using the L adapter on the adjustable pedestals.

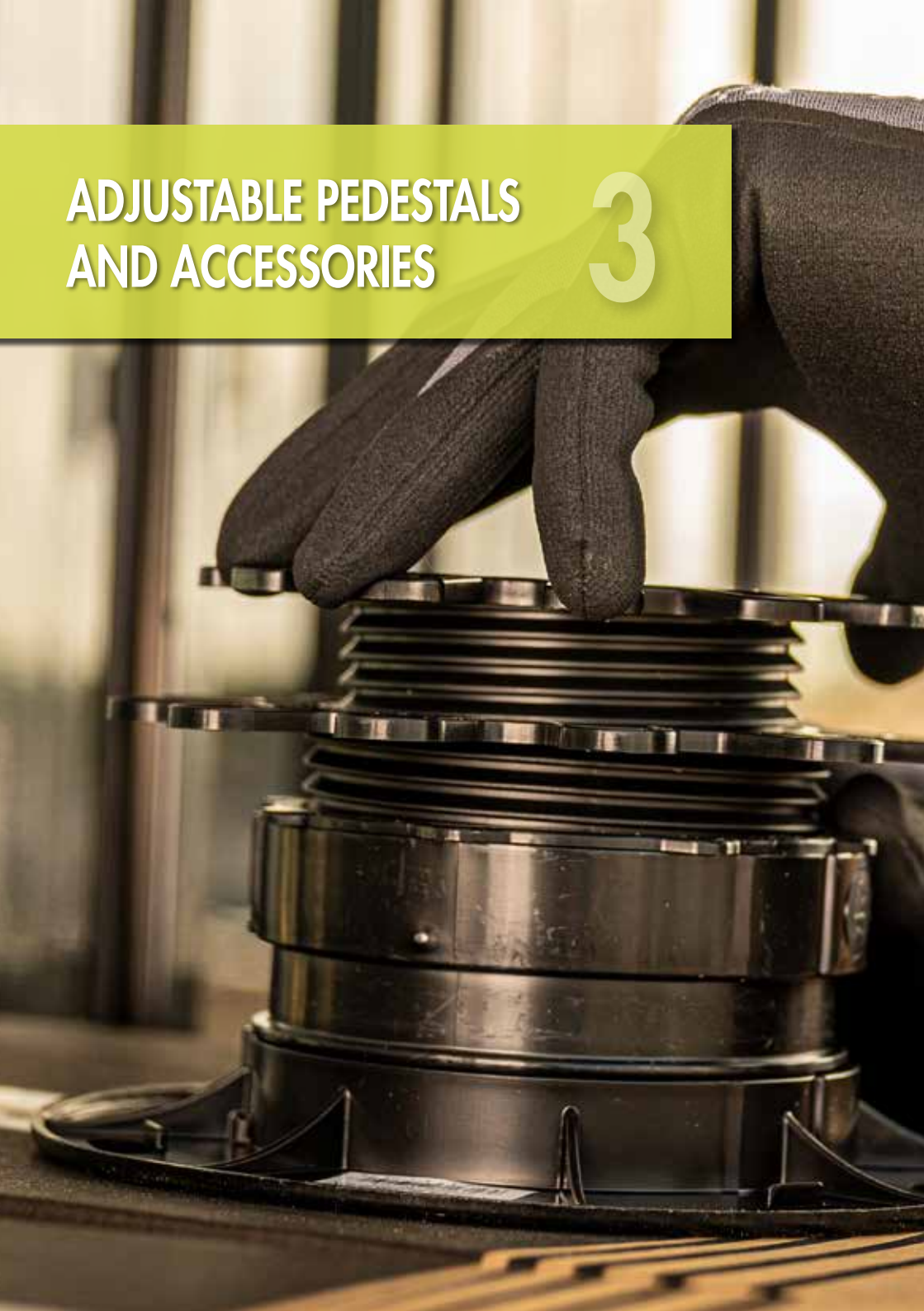


3 **For hidden attachment:** e.g., attach the decking with the deck glider.

3 **For visible attachment:** e.g., attach the distance strips 2.0 to the wood substructure. Then attach the decking from above using screws.

4 **Edge finish:** Decking can be attached for the edge finish using the deck fascia board mount.

ADJUSTABLE PEDESTALS AND ACCESSORIES 3



EUROTEC ADJUSTABLE PEDESTALS
ESSENTIAL FOR A PERFECT TERRACE

HIGH QUALITY SOLUTIONS FOR ALL TYPES OF SUBSTRATES

Your terrace will quickly develop defects without a perfect substructure. We offer a series of tools for durable and beautiful terraces.

WE SHOW YOU WHAT IS REALLY IMPORTANT!

WHY CHOOSE A EUROTEC SUBSTRUCTURE?

Eurotec offers the perfect solution for your terrace thanks to its modular system. With our high quality adjustment pedestals and the aluminium profiles that are compatible with them, we offer you a high quality and durable alternative to traditional substructures. Whether you have large-format stone slabs, wood or WPC decking, visible or hidden mounting - we have a fitting solution for every application.

WHY CHOOSE EUROTEC ADJUSTABLE PEDESTALS?

Eurotec adjustable pedestals are highly compatible - they are available in different sizes, are infinitely height-adjustable and even expandable with the use of expansion rings.

Our modular system means that our adjustable pedestals are variable for stone, wood or WPC decking and for visible and hidden mountings. **Whether Profi-Line or BASE-Line - our adjustable pedestals deliver on their promises!**

OVERVIEW OF EUROTEC ADJUSTABLE PEDESTALS





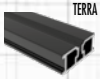
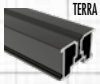

	BASE	SL BASE	PRO	SL PRO	GIANT	PRO CERA
Assembly height	25–210 mm	32–217 mm	10–168 mm	55–102 mm	40–220 mm	42–202 mm
Load-bearing capacity	2,2 kN	2,2 kN	8 kN	8 kN	22 kN	8 kN
For timber decks/WPC	✓	✓	✓	✓	–	–
For stone deck	–	–	✓	–	✓	✓
Self-levelling	–	✓	–	✓	–	✓
Can be expanded with expansion ring	–	–	✓	✓	✓	✓

FOR STONE DECKS ONLY

KEY

- Assembly height
- Load-bearing capacity
- Self-levelling
- For timber decks/WPC
- For stone deck
- Can be expanded with expansion ring

COMBINATION OPTIONS

	 BASE	 SL BASE	 PRO	 SL PRO	 GIANT	 PRO CERA
 EVO	✓	✓	✓	✓	–	–
 EVO Slim	✓	✓	✓	✓	–	–
 EVO Light	✓	✓	✓	✓	–	–
 Eveco	✓	✓	✓	✓	–	–
 HKP	✓	✓	✓	✓	–	–
 Nivello 2.0	–	–	✓	–	✓	–
 TERRA H15	✓	✓	✓	✓	–	–
 TERRA H24	✓	✓	✓	✓	–	–
 TERRA H50	✓	✓	✓	✓	–	–
 TERRA H85	✓	✓	✓	✓	–	–

Please note that not all profiles are available in black – this colour is available on request.

FOR STONE DECKS ONLY

DISCOVER OUR **STONE-SYSTEM CATALOGUE** FOR FURTHER INFORMATION AND PRODUCTS FOR THE CONSTRUCTION OF **STONE TERRACES**.

ADJUSTABLE PEDESTALS BASE-LINE

IT HAS NEVER BEEN AS EASY TO CONSTRUCT A TERRACE

ADVANTAGES

- Assembly heights of 25–210 mm
- Load-bearing capacity of 2,2 kN/pedestal
- Can be combined with the BASE adapters L, 32, 40 and 60
- The BASE adjustable pedestal is supplied with the BASE adapter L as standard.

BASE S

BASE M

BASE L

BASE XL

SUITABLE FOR SUBSTRUCTURES OF ALUMINIUM AND TIMBER

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS BASE-LINE

L ADAPTER AND CLICK ADAPTER

- **L adapter:**
  For classic timber substructures or modern aluminium substructures
- **BASE adapter 32:**
  For EVO Light aluminium system profile
- **BASE adapter 40:**
  For Eveco aluminium system profile
- **BASE adapter 60:**
  For aluminium system profiles EVO/EVO Slim and aluminium deck support-profile HKP

L-Adapter

BASE-Adapter 32

BASE-Adapter 40

BASE-Adapter 60

ADJUSTABLE PEDESTALS SL BASE

FOR STRAIGHTFORWARD TERRACE CONSTRUCTION ON SLOPES

ADVANTAGES

- Offsets slopes of up to 7 %
- Available in four different sizes
- Assembly height of 32–217 mm
- Load-bearing capacity of up to 2,2 kN/pedestal

SL Base S

SL Base M

SL BASE L

SL BASE XL

SUITABLE FOR SUBSTRUCTURES OF ALUMINIUM AND TIMBER

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS SL-BASE

L ADAPTER AND CLICKADAPTER

- **SL BASE L adapter:**
  For classic timber substructures or modern aluminium substructures
- **SL BASE adapter 40:**
  For Eveco aluminium system profile
- **SL BASE adapter 60:**
  For aluminium system profiles EVO/EVO Slim and aluminium deck support-profile HKP

SL BASE L adapter

SL BASE adapter 40

SL BASE adapter 60

ADJUSTABLE PEDESTALS PROFI-LINE

GET YOUR DREAM TERRACE WITH OUR MODULAR SYSTEM

ADVANTAGES

- Basic assembly heights of 10–168 mm
- High load-bearing capacity of up to 8,0 kN/pedestal

PRO XXS

PRO XS

PRO S

ALSO SUITABLE FOR
STONE DECKS

PRO M

PRO L

PRO XL

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS PROFI-LINE

Nivello 2.0

L ADAPTER AND CLICK ADAPTER

- **Nivello 2.0:** Not compatible with adjustable pedestals PRO XS, PRO XXS
- **L adapter:** For classic timber substructures or modern aluminium substructures
- **Click adapter 40 and 60:** For clicking Eurotec aluminium profiles into place in a time-saving manner
- **Stone adapter:** For laying stone slabs

L adapter

Stone adapter

Click adapter 40

Click adapter 60

EXTENSION RINGS

- To extend the height of the adjustable pedestals PRO and SL PRO
- Available in heights of 40 mm and 100 mm

EXTENSION PLATE

- The extension plate XXS has an installation height of 5 mm

Extension rings +2 /+4 /+10

XXS
extension plate

ADJUSTABLE PEDESTALS SL PRO
WITH CONTINUOUSLY SELF-LEVELLING HEAD

ADVANTAGES
- Self-levelling for slopes of up to 8 %
- For heavy surface coverings in wood and WPC/BPC
- Stepless height adjustment from 55–102 mm
- Acoustic damping properties

SL PRO M

SL PRO L

Note

Not suitable for single support.

SUITABLE FOR **HEAVY SURFACE COVERINGS** OF **TIMBER** AND **WPC/BPC**

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS SL PRO

L ADAPTER
- For classic timber substructures or modern aluminium substructures

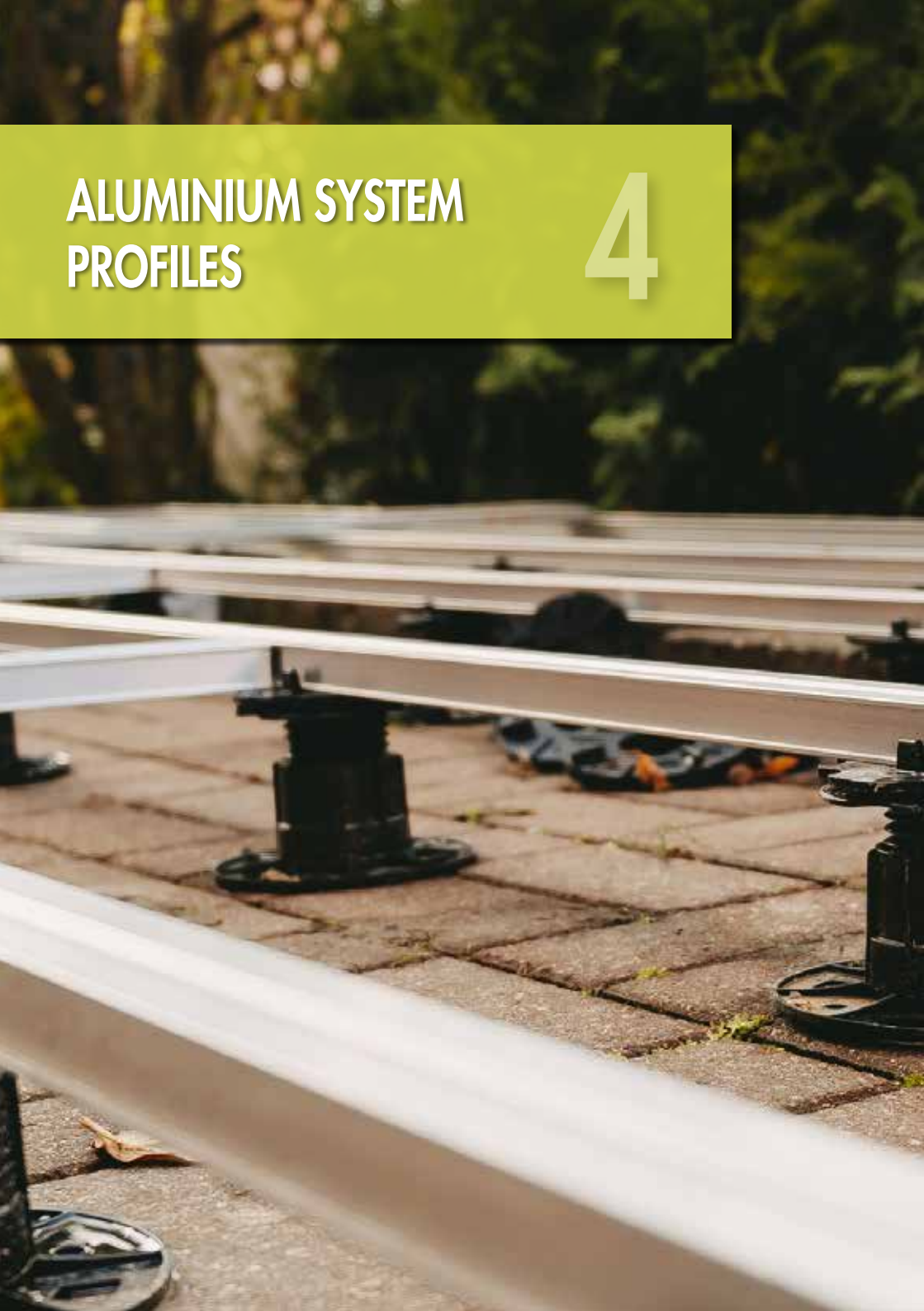
L adapter

EXTENSION RINGS
- To extend the height of the adjustable pedestals PRO and SL PRO
- The extension rings are available in heights of 40 and 100 mm

Extension rings +2 /+4 /+10

ALUMINIUM SYSTEM PROFILES

4



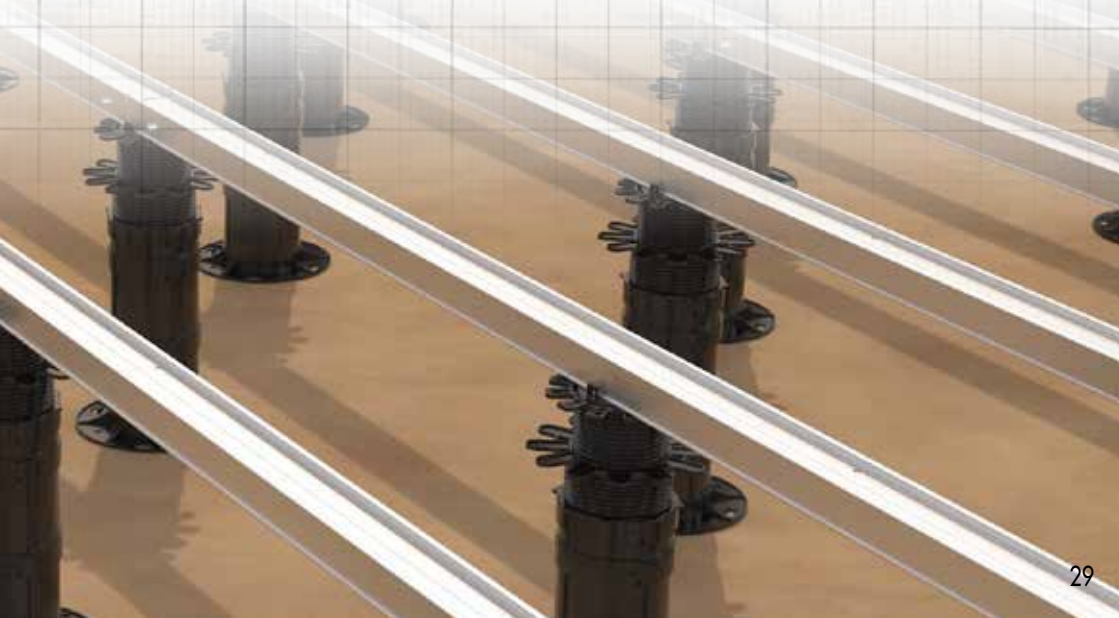
OVERVIEW OF EUROTEC ALUMINIUM SYSTEM PROFILES





	EVO	EVO SLIM	HKP	EVECO	EVO LIGHT
Application area	All-rounder, highly flexible, for any covering	Particularly suitable for low structural heights	To bridge high span widths	For grooved decking boards	Inexpensive alternative
Dimensions	40 × 60 × 2400 mm 40 × 60 × 4000 mm	20 × 60 × 2400 mm 20 × 60 × 4000 mm	100 × 60 × 4000 mm	24 × 39 × 2400 mm 24 × 39 × 4000 mm	32 × 34 × 4000 mm
Material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Hidden fastening	✓	✓	✓	✓	✓
Visible fastening	✓	✓	✓	–	✓

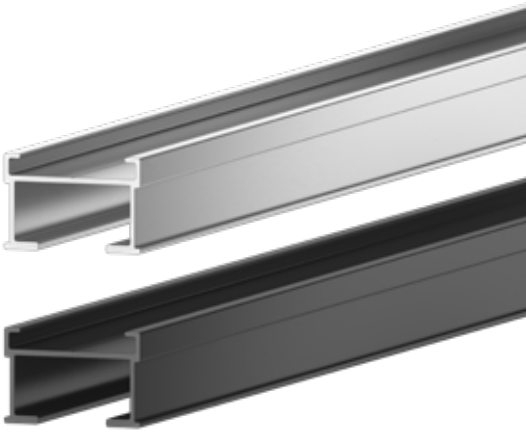
			
TERRA H15	TERRA H24	TERRA H50	TERRA H85
Modular decking profile system	Modular decking profile system	Modular decking profile system	Modular decking profile system
15 × 40 × 4000 mm	24 × 40 × 2000 mm 24 × 40 × 4000 mm	50 × 40 × 4000 mm	85 × 40 × 4000 mm
Aluminium	Aluminium	Aluminium	Aluminium
✓	✓	✓	✓
✓	✓	✓	✓



EVO ALUMINIUM SYSTEM PROFILE

THE ALL-ROUNDER IN OUR PROFILE RANGE – SUTIABLE FOR STONE AND TIMBER DECKS

The EVO aluminium system profile is the **all-rounder** in our aluminium profile range. With this profile, using a **variety of wood types and stone coverings** is easy. The ideal cross section of the aluminium profile enables a variety of fastening options and allows **high span widths** to be achieved.



ADVANTAGES/PROPERTIES

- With drainaige hole to avoid odours and moss growth
- In contrast to timber substructures, the profile is dimensionally stable and straight.
- It doesn´t suffer from climate-related effects such as warping, cracks, etc. that naturally occur with timber.
- The special shape prevents the screws from shearing off.
- Allows both hidden and visible fastening
- Compatible with the Eurotec Stone System

COMBINATION OPTIONS

EVO aluminium system profile connector

EVO corner connector

Twin system clip

WITH DRAINAIGE HOLES
to avoid odours and moss growth.

EVO SLIM ALUMINIUM SYSTEM PROFILE

IDEAL FOR LOW INSTALLATION HEIGHTS

The EVO Slim aluminium system profile is an aluminium substructure for terraces with very low structural heights. Compared with conventional terrace substructures made from wood, this substructure has certain significant advantages:

ADVANTAGES

- A sturdy base surface for direct support
- Universally suitable for direct/visible fastening systems and for indirect/concealed fastening systems.
- The special profile shape reduces the risk of fastening screws being shorn off as the result of swelling and shrinkage movements in the terrace decking boards.
- The special shape prevents the screws from being shorn off.
- Simple, time-saving assembly
- Dimensionally stable, straight, torsion-free
- Resistant to weather, UV exposure, insects and rot
- Supports constructive timber protection
- Low dead load

COMBINATION OPTIONS

EVO Slim aluminium system profile connector

Eveco corner connector

Twin system clip

EVO LIGHT ALUMINIUM SYSTEM PROFILE

THE COST-EFFECTIVE ALTERNATIVE

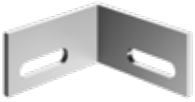
The aluminium system profile EVO Light was developed especially for grooved WPC/BPC coverings. Thanks to the walls and the perfectly utilised geometry of the EVO Light aluminium system profile, it has very high sturdiness.

ADVANTAGES

- Hidden fastening with the EVO Light system bracket
- Visible fastening possible with profile and wing-tipped profile drilling screws
- Can also be used with PRO adjustable pedestals and L adapter
- Can be lengthened with EVO Light system connector
- Position retention due to screw of L adapter
- Load-bearing, torsion-free, form-stable and straight
- Special shape prevents screws from shearing off

COMBINATION OPTIONS

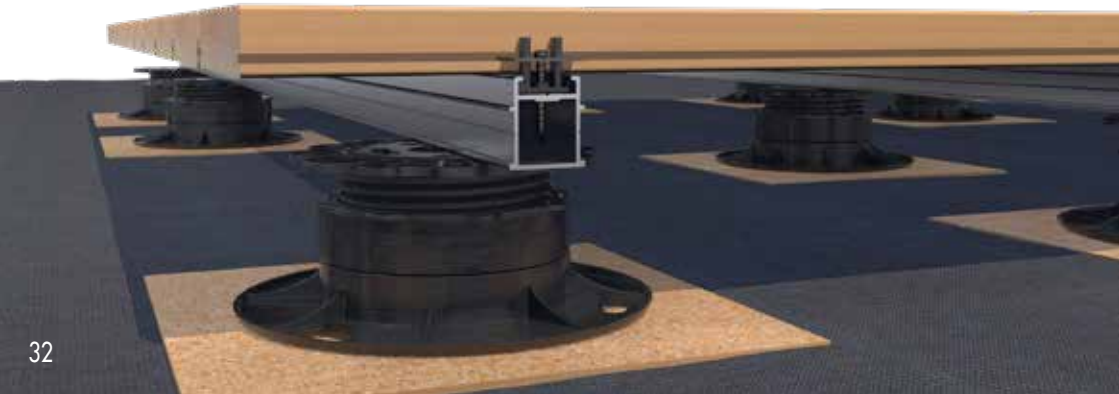
EVO Light system connector



Eveco corner connnector

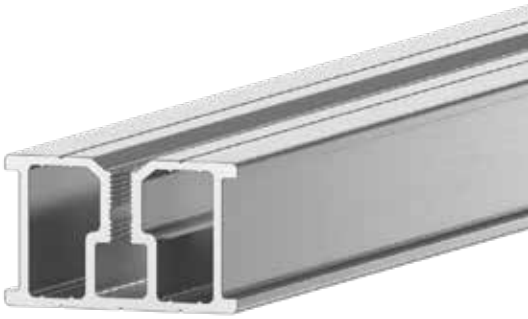
EVO Light system clip straight

EVO Light system clip bent



EVECO ALUMINIUM SYSTEM PROFILE
FOR GROOVED DECKING BOARDS

The Aluminum Profile System Eveco is an aluminum substructure for terraces which were developed specifically for the use of fastening clips. This profile is suitable for terrace coverings with grooved sides.



ADVANTAGES

- Universal: can also be used with many other fastening clips (screw diameter: 4,2 mm)
- In case of low structure height, the profile can be used without pedestals
- Position retention thanks to Click system without screws
- Load-bearing, torsion-free, form-stable and straight
- Screw channels avoid lengthy drilling times

COMBINATION OPTIONS

ECO system connector

Eveco corner connector

M-Clip

ALUMINIUM DECK SUPPORT-PROFILE HKP

FOR BRIDGING HIGH SPANS

The 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.

ADVANTAGES

- Compatible with our adjustable pedestal PRO with click adapter 40
- Only two parts of the system for a whole deck substructure
- 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

COMBINATION OPTIONS

Aluminium support-profile connector HKP

Fascia profile HKP

Twin system clip

EVODRY WATER DRAINAGE SYSTEM

FOR CREATING A SEALED SURFACE WITHOUT MUCH EFFORT

The EVOdry water drainage system by Eurotec is a water-draining laying system for balconies and terraces. For terraces in particular, moisture quickly gets to the unprotected substructure and usually destroys it more quickly than the decking. An unstoppable process of decay begins. The EVOdry water drainage system helps you prevent this from the start. The installation system seals completely at the base, which furthermore protects the substructure from dirt and plant growth. This increases the lifespan of the terrace many times over.

ADVANTAGES

- Targeted drainage of water
- Protection of the substructure against moisture, dirt and vegetation growth
- Longer service life of the substructure

COMBINATION OPTIONS

EVOdry holder

EVOdry closure

CAN BE COMBINED WITH OUR ALUMINIUM SYSTEM PROFILES: **EVO, EVO SLIM AND HKP**

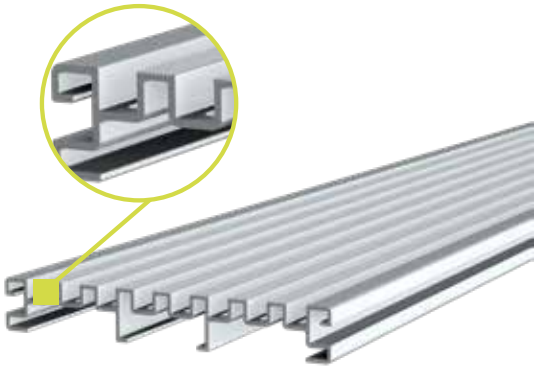
PRODUCTS FOR DRAINAGE
AND TO FINISH THE EDGE OF THE TERRACE

The DrainTec aluminium drainage grate is used for controlled water drainage. The DrainTec drainage grate focuses mainly on the connection detail of building openings. This refers to door connection areas, or transitions from vertical façade surfaces to horizontal terrace surfaces, for example. The wood preservation standard DIN 68800-2:2012 and the flat roof directive were taken into account in its development.

Thanks to its special geometry, it is able to "catch" precipitation. This causes the water to be channelled directly to the seal or the gutter, without exposing the door element or the façade cladding to reflected water (backspray). Heavy rain is drained in a controlled manner. Thanks to the flat geometry (21 × 140 mm), combination with standard terrace decking boards or porcelain stoneware slabs is possible. Furthermore, the assembly height prescribed by the standard can be reduced to a height of 0.05 m.

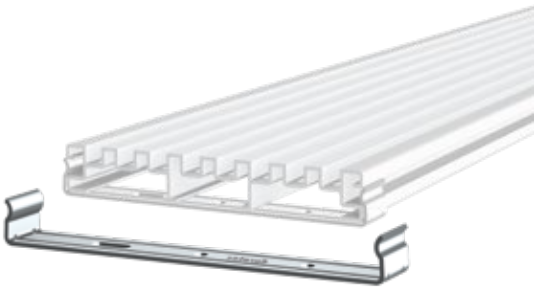
DRAINTEC – DRAINAGE GRATE

ADVANTAGES
- Can be combined with the Eurotec product range to create elevated deck areas
- As an inspection and cleaning fitting
- Even for low door-joint heights
- For creating barrier-free, wheelchair-friendly transitions
- Also suitable for direct mounting on load-bearing foundations



DRAINTEC CLIP

ADVANTAGES
- Used to attach drainage grate by simply clicking into place and allows subsequent removal of drainage grate.

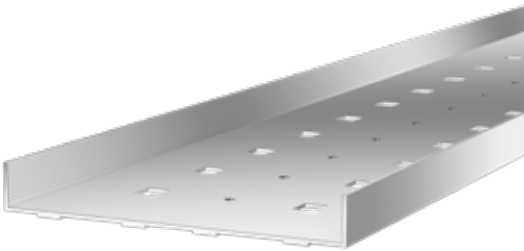


Without DrainTec *the reflected rainwater splashes onto the door element or façade cladding.*

With DrainTec *the rain is drained off in a controlled manner and the rainwater flows directly into the foundation.*

DRAINTEC BASE

Thanks to the DrainTec Base, our DrainTec Drainage Grate can now also be used at ground level on gravel, sand and other substrates. Through the angular perforations in the middle of the base, the base can be combined with our adjustable pedestals from the PRO-Line series. The Click Adapter 60 is required for this. By using an additional screw, the base can be fixed onto the adjustable pedestal. The base can be used as part of standalone support and with aluminium substructures.



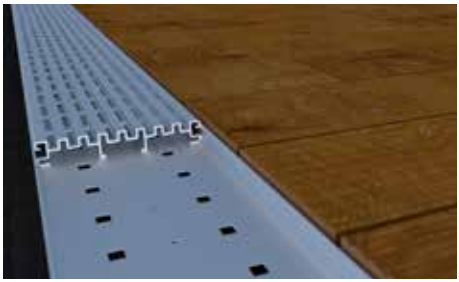
ADVANTAGES

- Easy to clean base
- Does not require any additional su structure when laying on bulk material
- Compatible with classic substructures made of wood as well as with our modern aluminium system profile and the deck support system HKP
- Easy to lay
- Weather-resistant
- Compatible with adjustable pedestals PRO S–XL

Instructions for use

When using on an aluminium substructurewe strongly recommend the use of ourMaTre band (art. no. 945319). This servesto prevent noise when treading on the structure.

DrainTec Base in combination with the DrainTec drainage grate and PRO adjustable feet with click adapter.



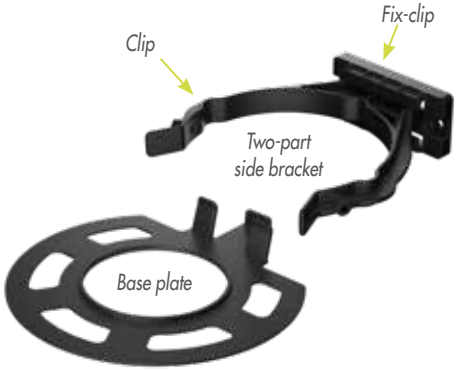
DrainTec Base in combination with the DrainTec drainage grate without substructure.

DECK FASCIA BOARD MOUNT

The Eurotec deck fascia board mount can be used with the PRO M and L adjustable pedestals. It was developed to allow users to create a visually attractive border on decking. The deck fascia board mount consists of a base plate and a side bracket. For assembly purposes, the side bracket can be separated into two individual parts: the Clip and the Fix-Clip.

ADVANTAGES

- For visually appealing edging
- Can be used with PRO M and L adjustable pedestals



Application example for fastening a panel holder to a timber terrace with PRO L adjustable foot

Fastening a timber panel with the timber holder.

Visually appealing edging thanks to panel holder.

HIDDEN FASTENING 5

ACCESSORIES FOR HIDDEN FASTENING OF TERRACE DECKING BOARDS

ACCESSORIES FOR HIDDEN FASTENING FIXING THE DECK WITHOUT VISIBLE SCREW HEADS

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.

ADVANTAGES

- Indirect/hidden fastening solution
- Compatible with different Eurotec aluminium system profiles
- Uniform joint spacing is guaranteed
- Supports constructive timber protection
- Weather-resistant

© Natur in Form

TWIN SYSTEM CLIP

The Twin aluminium system clip is inserted between two wooden boards before being secured within the board groove using a stainless steel clamping plate. The clamping plate is attached to the aluminium substructure using a drilling screw between the joints. The spacer domes ensure uniform joint spacing from board to board.

Use low torque

ADVANTAGES

- Indirect/hidden fastening solution
- Individual boards can be adjusted and replaced at any time
- Compatible with Eurotec's EVO/EVO Slim aluminium system profiles and the HKP deck-support system
- Uniform joint spacing of approx. 6 mm
- Supports constructive timber protection
- Weather-resistant

Note

Add groove cheek thickness.

EVO LIGHT SYSTEM CLIP

ADVANTAGES

- For invisible attachment of grooved boards on: EVO Light aluminium system profile
- For questions regarding groove geometry, always contact your local specialist timber dealer
- Time-saving and easy installation
- Automatically predefined joint spacing of 6 mm
- Individual boards can be adjusted or replaced at any time
- Supports constructive timber protection
- Weather-resistant

EVO Light system clip straight

EVO Light system clip bent

Hidden fastening using EVO Light system clip

T-STICK

ADVANTAGES

- The T-Stick is inserted between two wooden boards and fastened in the board groove with a steel plate.
- Uniform board clearance of 6 mm
- The T-Stick also acts as a spacer and allows free movement between the surface covering and the substructure.
- It simultaneously promotes air circulation.
- The contact surfaces prevent the screws from shearing off.
- Only suitable for low movement woods and WPC!
- Clamping plate available in stainless steel A2

The T-Stick ensures uniform board clearance.

The T-Stick is suitable for boards with the following groove geometry:		
Groove depth D:	Groove width W:	Groove wall thickness T:
≥ 7,5 mm	≥ 2,5 mm	≥ 5,5–12,5 mm

If necessary, the suitability of the wood type must be determined by the manufacturer / wood supplier.

DECKING MULTI ANGLE

ADVANTAGES

- For the hidden attachment of start/end decking planks
- Supports constructive wood protection with approx. 10 mm space between the decking and the substructure
- Weather-resistant

YOU CAN FIND MORE PRODUCTS FROM THE **50X SERIES** IN OUR **TERRACE CATALOGUE**!

DECK GLIDER/MINI DECK GLIDER

ADVANTAGES

- Indirect/non-visible fastening solution
- The 10 mm space that is created between the substructure and the decking prevents the stainless steel screws from shearing off
- The joint spacing is freely selectable and suitable for many types of wood.

The deck glider is available in two versions:

- **Deck glider**
  → Plank width: 80–155 mm
  → Plank thickness: 20–30 mm
- **Mini deck glider**
  → Plank width: 90–100 mm
  → Plank thickness: ≥ 20 mm

Please consult the product data sheet for further information.

DRILL TOOL 50X

ADVANTAGES

- The Drill Tool 50X is a d**rilling template for the invisible fastening of decking boards**
- Ensures even joint spacing of 6 mm.
- Attachment points are pre-defined
- Suitable for covering thicknesses ≥ 21–25 mm and covering widths of 110 mm–150 mm

The 50X drill tool on a wooden substructure with screw connections.

Important

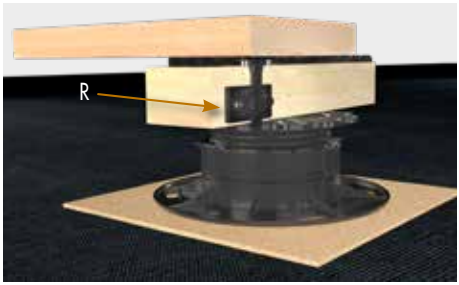
Please enquire with the manufacturer or supplier whether the decking is suitable for this type of fastening.

SNAP-IN FASTENER

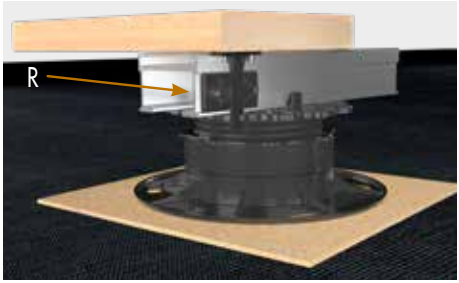
The Eurotec snap-in fastener is **used for the installation of start or end floorboards** on a terrace with concealed screw connections. **The fastener consists of two parts: the plug and the socket**. The socket can be attached to the side of the substructure using the screws supplied. The **plug is fixed underneath the floorboard** and can then be snapped into the socket. The product enables **quick and unproblematic installation of start or end floorboards** on the terrace. The snap-in function of the fastener covers a wide range of substructure assembly heights. **All concealed Eurotec fastening solutions can be used to install the remaining floorboards.**

ADVANTAGES

- Quick and easy installation of the start and end floorboards
- Adjustment range from 19.5–45.5 mm*
- Can be used in combination with both a wooden and an aluminium substructure
- Both laterally grooved and non-grooved floor boards can be fastened without any problems



Fastening a wooden floorboard to a wooden substructure using the snap-in fastener (R).



Fastening a wooden floorboard to the EVO aluminium system profile using the snap-in fastener (R).

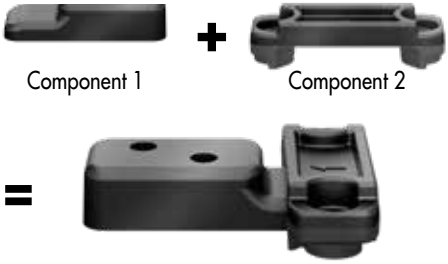
*The adjustment range is calculated from the distance between the upper web of the plug and the attachment point of the clip to the substructure.

STARTERCLIP

ADVANTAGES

- Indirect/concealed fastening solution for edging
- Supports design-based wood preservation thanks to approx. 10 mm board distance from substructure.
- Weather-resistant

Use low torque



Side decking view of an installed StarterClip

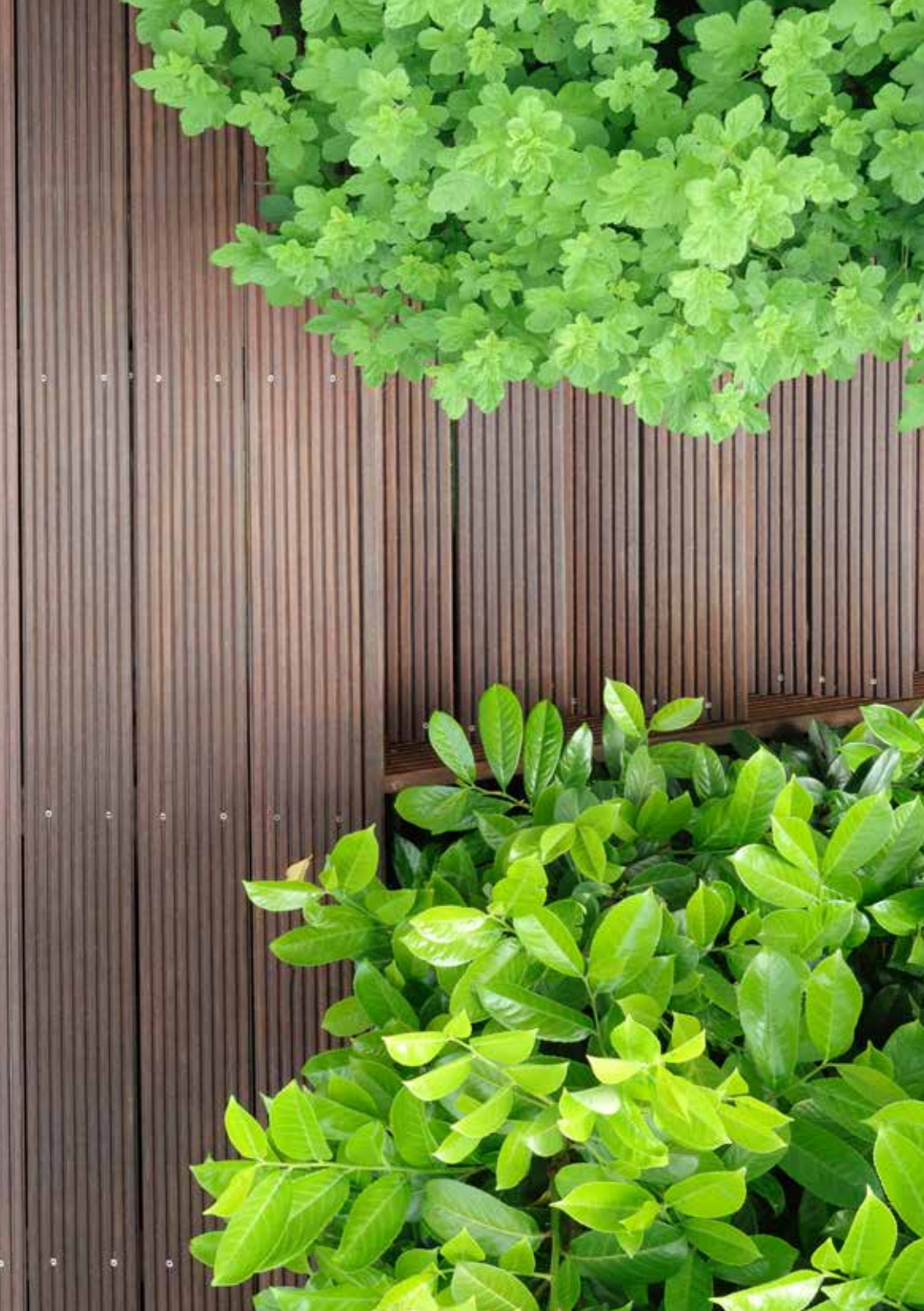
PROTECTUS, TIMBER-PROTECTION TAPE

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

VISIBLE FASTENING 6



ACCESSORIES FOR VISIBLE FASTENING OF TERRACE DECKING BOARDS

FIXING THE DECKING WITH VISIBLE SCREW HEADS

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.

ADVANTAGES

- Direct/visible fastening solution
- Easy, fast laying of the decking
- Compatible with different Eurotec aluminium system profilesn
- Easy replacement of individual decking boards
- Supports constructive timber protection
- Weather-resistant

DISTANCE STRIP 2.0

ADVANTAGES

- Reduces shearing of fastening screws
- It acts as a spacer and allows free movement between the panel and the substructure.
- It simultaneously promotes air circulation.

DISTANCE STRIP 2.0 REDUCES THE RISK OF SHEARED OFF SCREWS

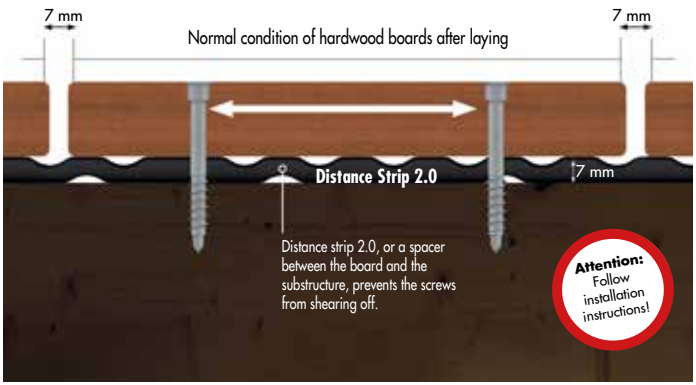
Distance strip 2.0 is made of hard plastic and is intended to prevent the stainless steel screws from shearing off. The shearing is caused by the swelling and shrinking of the wood, the so-called working of the wood. This working of the wood is especially pronounced in the transverse direction of the boards. The wood „wants" to take the screw with it, while the lower part of the screw is still firmly seated in the substructure. Since hard and tropical wood is very hard due to its very high density, the screw does not have a chance of pressing into the wood if the wood is working. If the screw breaks off due to this stress, this is called shearing off. Distance strip 2.0 was developed in order to prevent stainless steel screws from shearing off. It creates a freedom of movement of 7 mm between substructure and decking boards, which gives the stainless steel screws the opportunity to move together with the wood.

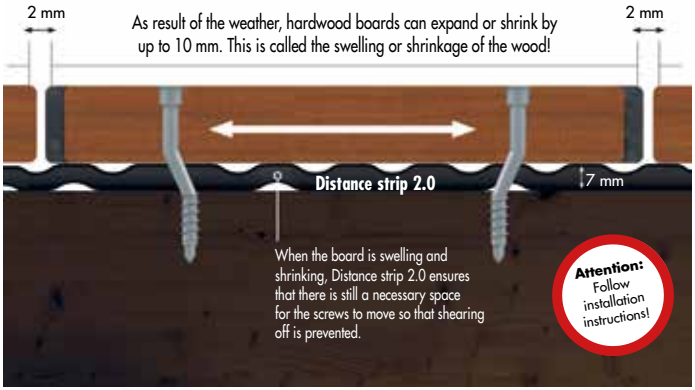
Distance strip 2.0 on a timber structure

WHAT DOES „SHEARING OFF" MEAN?

A screw can shear off (tear off) when it does not have enough freedom of movement while the wood is swelling and shrinking. With the help of Distance strip 2.0, a distance of 7 mm is achieved between the board and substructure, which allows the screws to adjust to the movements of the wood. In this way, shearing off isprevented.

6 VISIBLE FASTENING





TERRASSOTEC TRILOBULAR

ADVANTAGES

- Reduction of chip build-up due to special head
- The special screw geometry reduces the risk of splitting the wood
  → Pre-drilling is absolutely recommended, especially for hardwoods or in deck and façade construction
- Underhead thread provides additional support for the decking boards
- Screws do not hit one another when screwed in using the TX drive

Europäische Norm
EN 14592:2008+A1:2012

On request, screw heads can be painted in RAL colours.

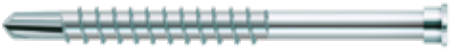
TERRASSOTEC

ADVANTAGES

- Usable for service classes 1 to 3 according to EN 1995 -Eurocode 5
- 60 % higher breaking torque than A2 and A4 prevents screw breakage during assembly
- The tapered head draws the shavings of the wood surface downwards when sinking

Europ. Techn. Bewertung
European Technical Assessment
ETA-11/0024

PROFILE DRILLING SCREW



ADVANTAGES

- The screw drills or automatically forms a core hole and a counter thread in the aluminium profile
- The special screw geometry reduces the risk of the wood splitting
  → Pilot drilling of the terrace decking board is highly recommended, especially for hard woods or in terrace and façade construction!
- Reduction of chip formation due to the special head
- Screws can be screwed in smoothly thanks to the TX drive

HAPATEC

The Hapatec screw is made of hardened stainless steel and is a panel fastener, designed especially for hardwood. The screw has a scraping groove at the screw tip, milling ribs above the thread and a countersunk head.

ADVANTAGES

- Milling ribs simplify countersinking in all wood types
- The special screw geometry reduces the risk of wood splintering
  → But pre-drilling is strongly recommended especially for hardwoods used in terrace and façade construction!
- Corrosion-resistant up to and including service class 3 – 'freely exposed structures' according to DIN EN 1995 (Eurocode 5)
- National and international certification
- No screw-hammering when screwed in with TX drive

HAPATEC HELI

The Hapatec Heli of **A2/A4 stainless steel** is a **panel fastener**. The screw has an ornamental head with **TX drive**.

ADVANTAGES

- The special screw geometry reduces the torque needed to drive it in
- This means that the risk of the screw tearing off from the relatively soft A2/A4 stainless steel is thus reduced
- Screws can be screwed in smoothly thanks to the TX drive

HOBOTEC

Hobotec screws allow **easy, fast and tidy fastening of timber–timber joints**. These screws are especially suitable for applications with a higher risk of cracking and splitting. The new type of thread and innovative drill point ensure a clean fit and high extraction-resistance values.

ADVANTAGES

- No pilot-drilling necessary
- No crack or fissure formation in narrow edge areas
- Screws can be screwed in smoothly thanks to the TX drive

On request, screw heads can be painted in RAL colours.

ESPECIALLY SUITABLE FOR:

Applications in the fields of model-making, staircase construction and façade construction and for carpentry, joinery and roofing work.

MAMMUTEC

The Mammutec screw is ideal for attaching wooden flooring with a thickness of up to 60 mm. Thanks to its excellent corrosion resistance, the Mammutec screw is especially suited to the construction of jetties and piers.

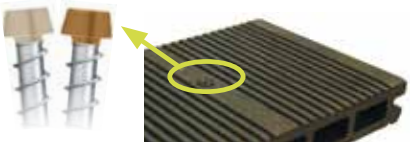
ADVANTAGES

- Corrosion resistance
- Attachment of wooden flooring with a thickness of up to 60 mm

TRI-DECK-TEC

ADVANTAGES

- Reduction of the splitting effect
- Drive thread ensures quick screwing
- Under-head thread provides additional hold for deck board
- Reduced splintering through special head
- Reduction of screw torque due to trilobular basic geometry
- Reduction of the risk of tearing off the screw when screwing through trilobular basic geometry



Available on request with coloured screw heads for WPC decking.

On request, screw heads can be painted in RAL colours.


Eurotec®
The specialist for fastening technology
25 OVER YEARS
You Tube
DISCOVER OUR
PRODUCT RANGE