Eurotec®

The specialist for fastening technology

OVERVIEW
STONE SYSTEM
DECK CONSTRUCTION AND LANDSCAPING

www.eurotec.team/en

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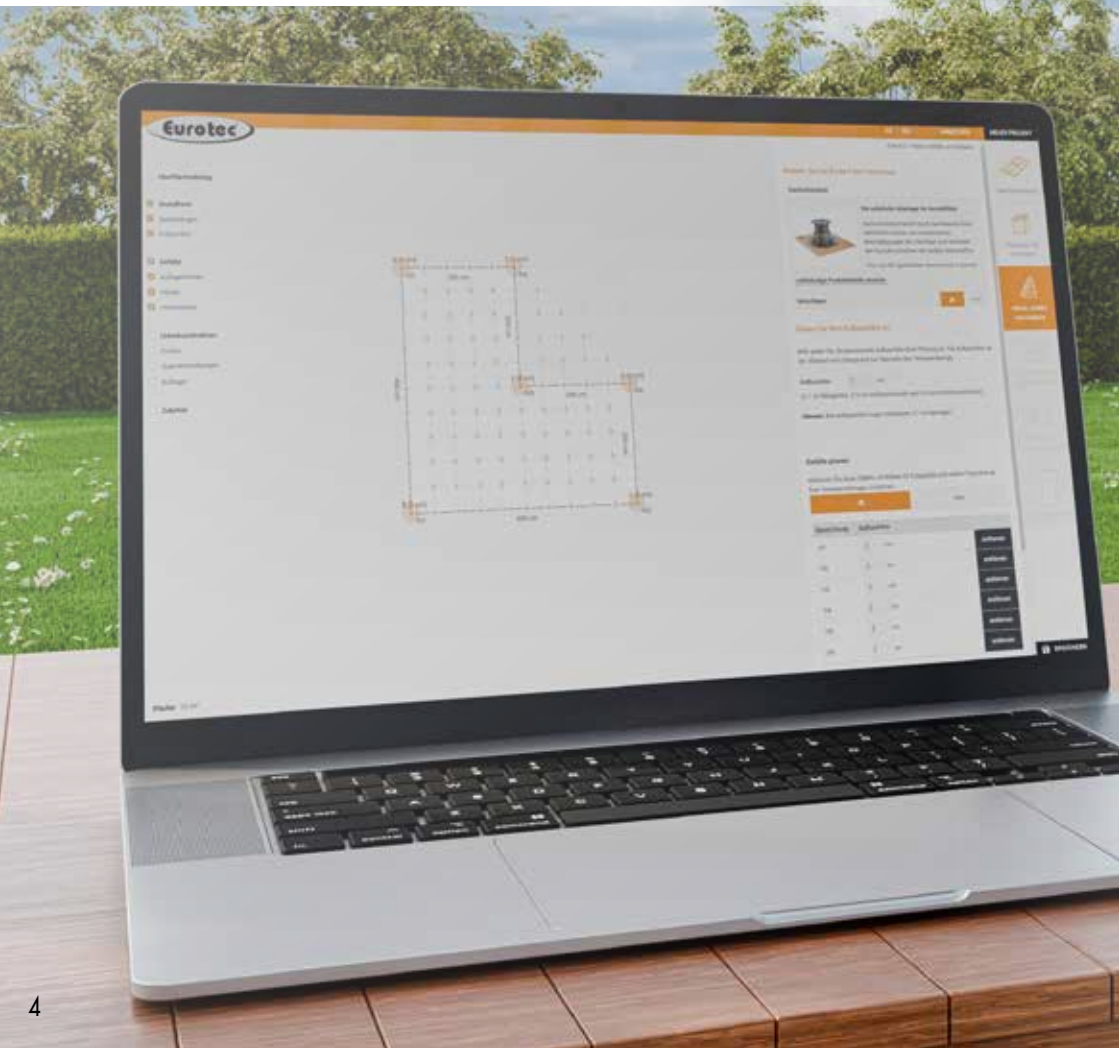
DISCOVER NOW:
OUR DECK SOFTWARE

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.

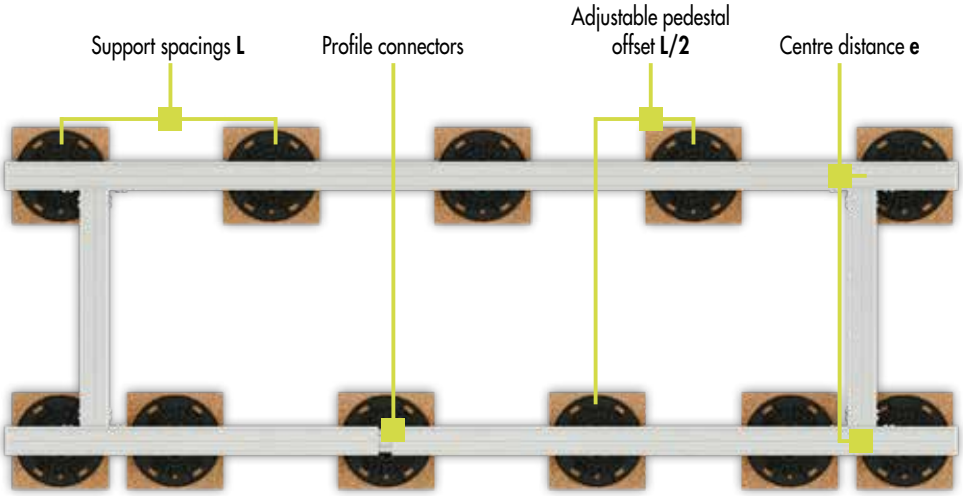
Example:

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

[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

FOR MORE TABLES PLEASE CONSULT
THE TERRACE CATALOGUE

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[e)]						
		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 STONE DECKS

GENERAL RISKS

- Stone slabs can develop moss, green deposits can form, atmospheric dirt can be deposited
- Stone slabs are not always dimensionally accurate when they come from the factory, which creates tripping hazards.
- Four-point or pure edge supports are recommended for roof terrace structures with insulating materials.

RISKS WITH A SINGLE SUPPORT

- Tripping hazard if the substrate changes/moves
- Tipping risk with high installation height
- The edge areas are at risk of diverging, as it is not a coherent system
- The joint pattern can shift in the door area as the door element is generally higher and particularly high pressure is placed on the slab at the exit

The use of an aluminium substructure can rule out practically all the named risks. We recommend installing cross bracing in every case, as this guarantees a coherent system. From a static point of view, a disc is placed on a grid of adjustable pedestal that are independent of one another, so that the aluminium can expand and contract at full utilisation and under thermal weather influences.

The joint pattern is retained permanently and the terrace can thus provide pleasure for a long time.

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.

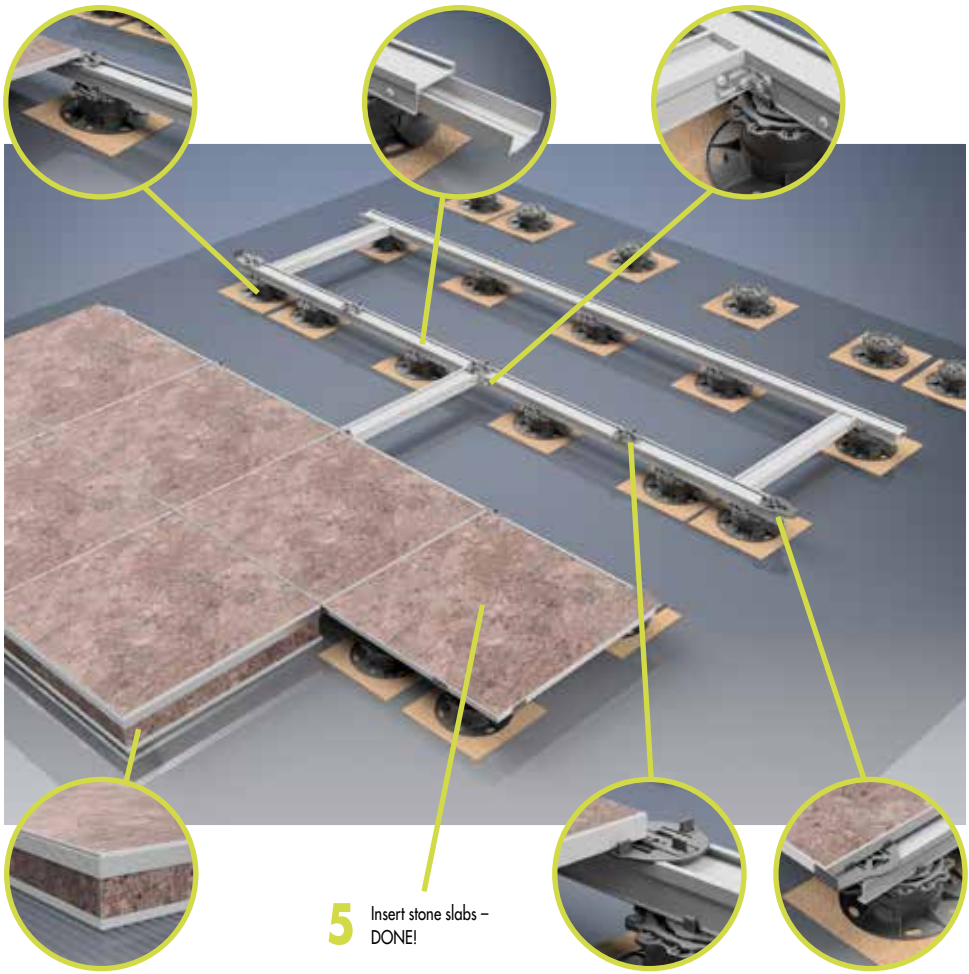
DECKS WITH SUPPORT

BUILDING PATIOS HAS NEVER BEEN SO EASY!

1 Build a separation layer out of cork and place the pedestals

2 Installation and assembly of the aluminium profiles and connectors

3 Using corner connectors, attach cross braces to provide transverse stiffening in substructure



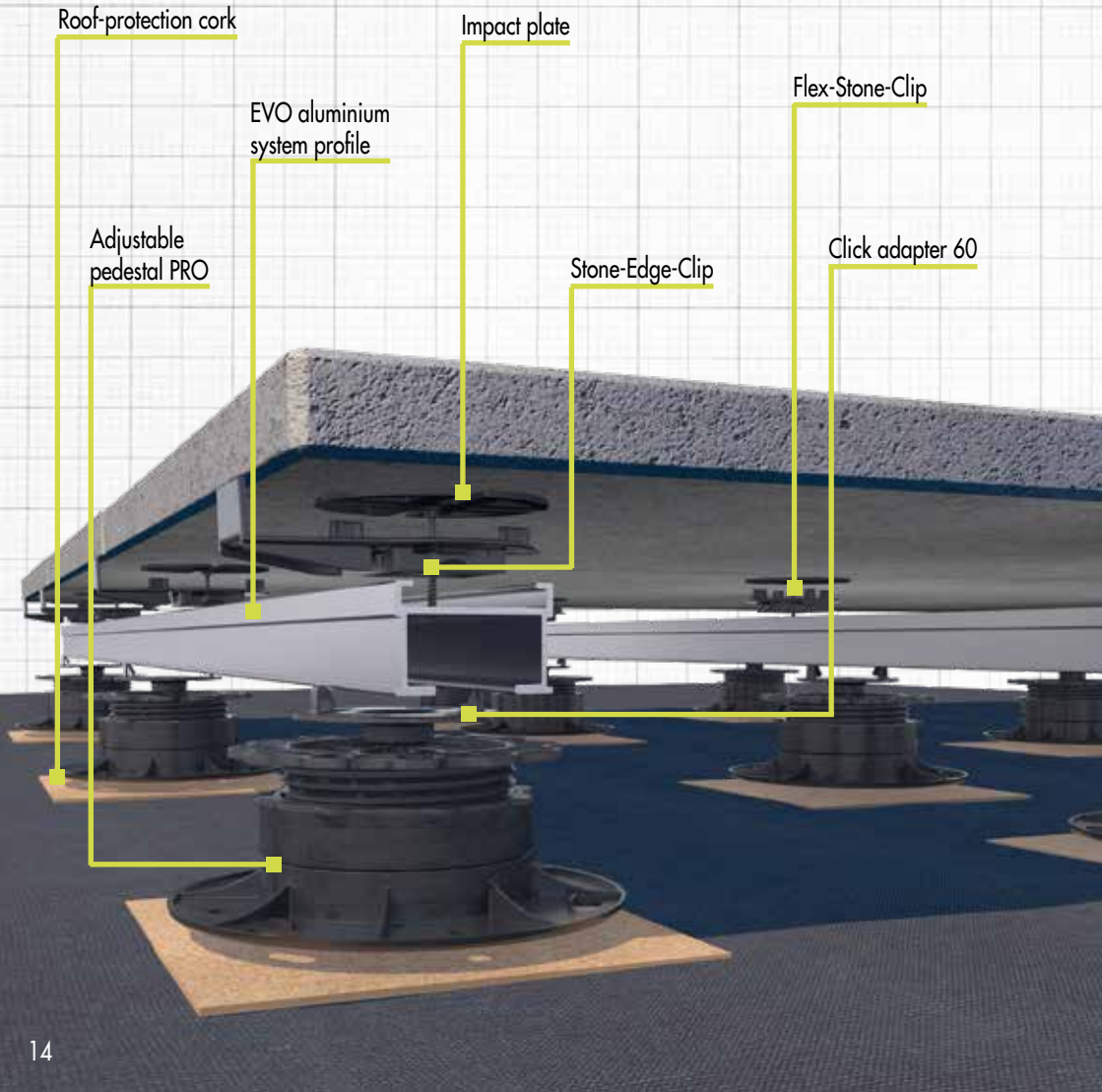
4 Click the stone edge clips and the stone clips onto the system profile

5 Insert stone slabs – DONE!

ACCESSORIES
If required, more accessories are available.

More information can be obtained from this brochure, our decking and landscaping catalogue as well as from **www.eurotec.team**.

EVO ALUMINIUM SYSTEM PROFILE MODULAR SYSTEM
FOR STONE PATIO



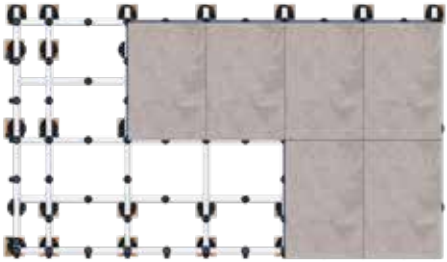
SUBSTRUCTURE
FOR LARGE-SIZE STONE SLABS

Terraces with large stone slabs require additional support. This is provided by additional cross bracing or longitudinal bracing for the substructure and Flex Stone Clips, to stop the slab from breaking under load.

VARIANT 1

CROSS BRACING

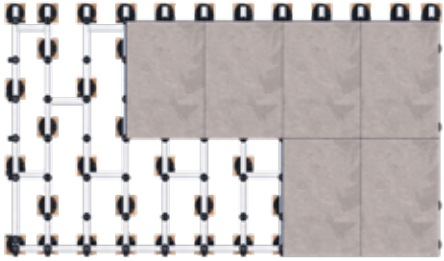
Cross struts **every 30 cm** with **one to two Flex Stone Clips** (depending on slab width) serving as support points.



VARIANT 2

LONGITUDINAL BRACING

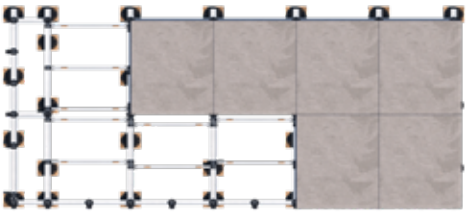
Place additional longitudinal struts under the centre of the stone slabs. Support points provided by **Flex Stone Clips every 60 cm**. The cross bracing is applied **every 75 cm** alternately.



VARIANT 3

CROSS BRACING WITH SUPPORT CLIP AND EVO LIGHT

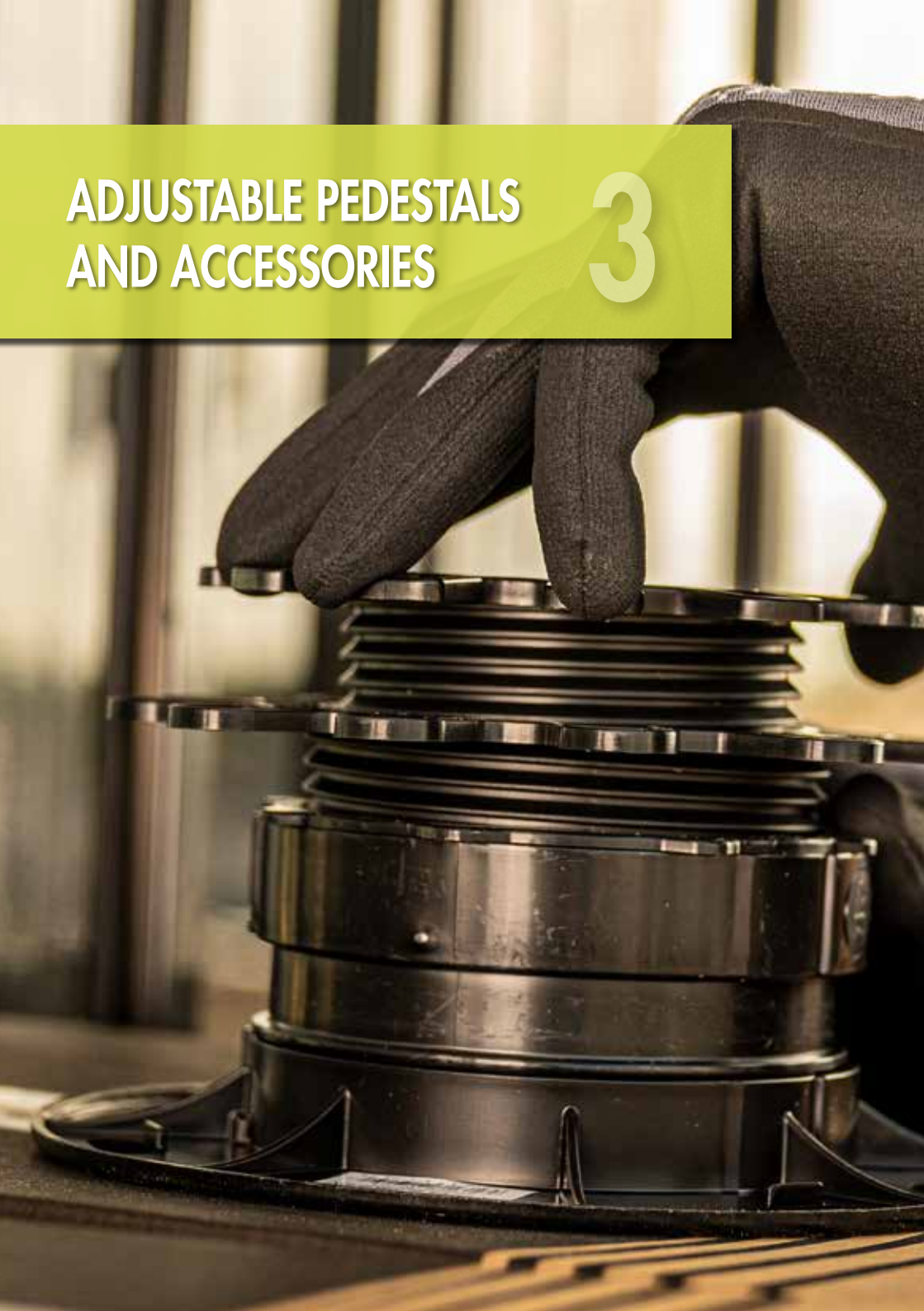
Cross struts **every 60 cm** with **EVO Light and the Support Clip set** as well as one to **two Flex Stone Clips** (depending on slab width) serving as support points.



Important

Observe the manufacturer's instructions for supporting the stone slabs! Using our system does not release planners / processors from their duty to find out about the manufacturer's specifications for other products (installed together with our system).

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.

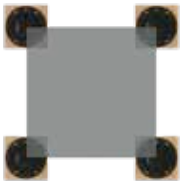
Our modular system means that our adjustable pedestals are variable for stone, wood or WPC decking and for visible and hidden mountings. **Whether Profi-Line or BASE-Line - our adjustable pedestals deliver on their promises!**

Eurotec®

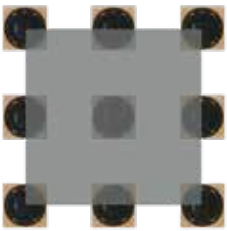
RECOMMENDED SUPPORT FOR STONE COVERINGS

STANDALONE SUPPORT WITH ADJUSTABLE FEET

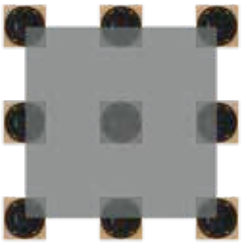
When you are building a **stone terrace with no substructure**, it is especially important to use appropriate adjustable feet. They **support the stone slabs and stop them from breaking**, resulting in a stable and sturdy terrace. The number of **adjustable feet** required and the best way to **position** them is determined by the size of slabs used. The following example serves as a guide. It can be used to identify the required support of the terrace slabs in connection with a **standalone support**.



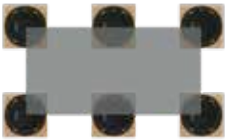
60 x 60 cm



80 x 80 cm



90 x 90 cm



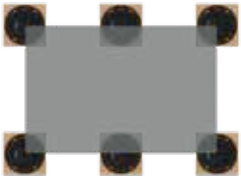
80 x 40 cm

120 x 40 cm

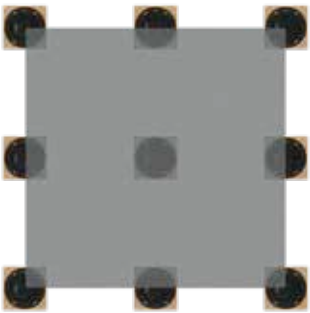
120 x 60 cm

Important

Observe the manufacturer's instructions for supporting the stone slabs! Using our system does not release planners / processors from their duty to find out about the manufacturer's specifications for other products (installed together with our system).



90 x 60 cm



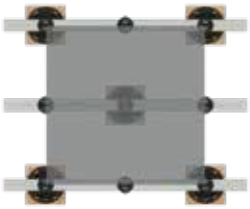
120 x 120 cm

RECOMMENDED SUPPORT FOR STONE COVERINGS

SUPPORT ON ALUMINIUM SYSTEM PROFILE

If a stone terrace is set up with insufficient support points, the slabs may break when exposed to load. For this reason, the size of the stone slabs used determines the combination of longitudinal and cross bracing in the form of aluminium system profiles and the application of Flex Stone Clips and Stone Edge Clips. The following images depict various example sizes with the corresponding required support and can be used as a guide for designing the aluminium substructure correctly.

60 x 60 cm



80 x 80 cm

90 x 90 cm

80 x 40 cm

120 x 40 cm

120 x 60 cm

Important

Observe the manufacturer's instructions for supporting the stone slabs! Using our system does not release planners / processors from their duty to find out about the manufacturer's specifications for other products (installed together with our system).

90 x 60 cm

120 x 120 cm

SINGLE SUPPORT

THE MODULAR SYSTEM OF OUR PROFI-LINE

All PRO-Line pedestals can be combined with

- L adapter
- Stone adapter
- Click adapter 40
- Click adapter 60
- Extension ring +4
- Extension ring +10

*except PRO XXS / PRO XS

OVERVIEW OF EUROTEC ADJUSTABLE PEDESTALS





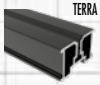

	GIANT	PRO CERA	PRO	SL PRO	BASE	SL BASE
Assembly height	40–220 mm	42–202 mm	10–168 mm	55–102 mm	25–210 mm	32–217 mm
Load-bearing capacity	22 kN	8 kN	8 kN	8 kN	2,2 kN	2,2 kN
For timber decks/WPC	–	–	✓	✓	✓	✓
For stone deck	✓	✓	✓	–	–	–
Self-levelling	–	✓	–	✓	–	✓
Can be expanded with expansion ring	✓	✓	✓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

FOR TIMBER 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

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

FOR TIMBER DECKS ONLY

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

DISCOVER OUR **DECK AND GARDEN CATALOGUE** FOR FURTHER INFORMATION AND PRODUCTS FOR THE CONSTRUCTION OF **WOOD DECKS**.

ADJUSTABLE PEDESTALS GIANT

THE ADJUSTABLE PEDESTAL FOR LARGE STONE LABS

ADVANTAGES

- Infinitely adjustable heights from 40 to 220 mm
- High load capacity of up to 22 kN/pedestal*
- Pre-installed impact noise disc absorbs impact noise
- For the individual support of heavy, large-format stone slabs/ceramic tiles
- Stufenlos einstellbare Höhen von 40–220 mm
- The GIANT extension ring raises the height by another 170 mm
- Can be extended with max. one extension ring
- Resistant to weather, UV exposure, insects and rot

GIANT S

GIANT M

GIANT L

GIANT XL

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS GIANT

EXTENSION RING

- Raises the height by another 100–170 mm

Extension ring GIANT

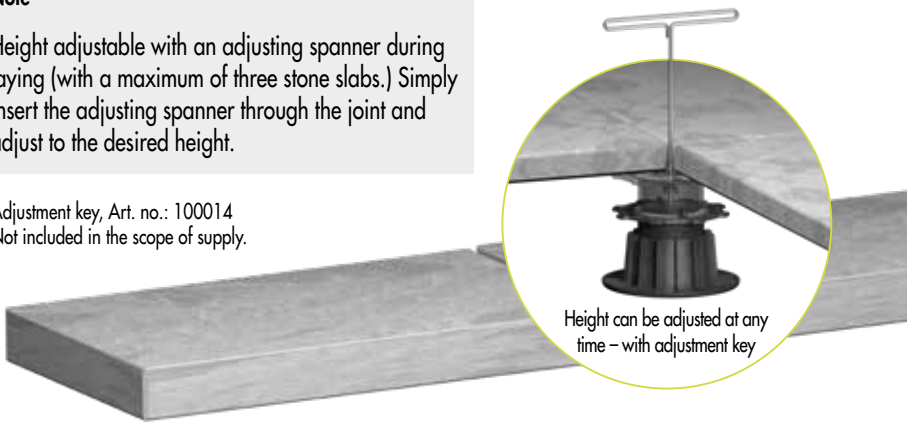
**Maximum load capacity when retracted. Load capacity of 19 kN/pedestal when combined with the GIANT extension ring.*

Stone patio with adjustable pedestal GIANT

Note

Height adjustable with an adjusting spanner during laying (with a maximum of three stone slabs.) Simply insert the adjusting spanner through the joint and adjust to the desired height.

Adjustment key, Art. no.: 100014
Not included in the scope of supply.



Impate plate

Made of Elasto, absorbs impact noise.

Stone adapter

For the individual support of stone slabs
The four clips stop stone slabs from slipping and ensure even joint spacing.

Thread

For infinitely variable adjustment of the installation height from 40–220 mm.

Base

Withstands very high loads of up to 22 kN/pedestal*

*Maximum load capacity when retracted. Load capacity of 19 kN/pedestal when combined with the GIANT extension ring.

ADJUSTABLE PEDESTALS PRO CERA

PERFECT STABILITY AND FLEXIBILITY FOR YOUR STONE TERRACE

ADVANTAGES

- High load capacity of 8.0 kN/pedestal
- Continuously adjustable to gradients of up to 7 %
- Basic overall installation heights between 42,8–170,8 mm
- Greater heights are possible with expansion rings
- Quick and easy installation
- Infinitely variable height adjustments
- Resistant to weather, UV exposure, insects and rot

PRO CERA XS

PRO CERA S

PRO CERA M

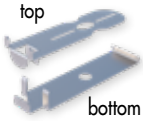
PRO CERA L

PRO CERA XL

PRO CERA XXL

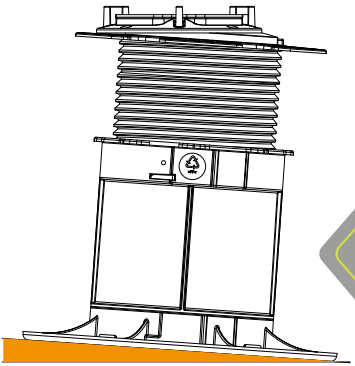
ACCESSORIES FOR THE ADJUSTABLE PEDESTALS PRO CERA

Roof protection cork



TERRA edge finish single support

Extension rings
22,5 mm, 40 mm, 100 mm



3 ADJUSTABLE PEDESTALS AND ACCESSORIES

LOOKING FOR LOW INSTALLATION HEIGHTS?

PROFI-LINE XXS, XS AND S

- Suitable for timber and stone terraces
- Extended heights are possible with extension rings
- Installation heights: 10–53 mm
- Load capacity: 8.0 kN/pedestal

Stone adapter

XXS

XS/S

XXS extension plate

EXTENSION RINGS AND SLAB SUPPORT

- **Extension rings:**

→ Assembly height: 22,5 mm, 40 mm and 100 mm

- **Slab support:**

→ Assembly height: 10 mm, 20 mm
→ Up to three units can be stacked on top of one another
→ Surface water can quickly and easily run off through the grooves

Slab support PP

Slab support

IMPATE PLATE

SELF-LEVELLING SUPPORT PLATE

THREADS

EXTENSION RING WITH THREADED RING

BOTTOM SECTION

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 **WOOD DECKS**

PRO M

PRO L

PRO XL

ACCESSORIES FOR THE ADJUSTABLE PEDESTALS PROFI-LINE

Nivello 2.0

ADAPTERS

- **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 and 100 mm

EXTENSION PLATE

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

Extension rings +2 /+4 /+10

XXS extension plate

AIDS FOR INSTALLING STONE SLABS

LEVEL SURFACE WITH LITTLE EFFORT

ALSO IDEAL FOR YOUR ROOF TERRACE

Thanks to modern slab support and special adjustable pedestals for slabs, it is now possible to lay floor slabs easily and without mortar. The different support heights of the slab supports and adjustable pedestals 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. 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.

SLAB SUPPORT EPDM

ADVANTAGES

- Secure, non-slip storage
- Up to three units can be stacked on top of one another
- Dampens footfall noise
- Suitable for low installation heights
- Surface water can quickly and easily run off through the grooves

Note

We recommend not laying more than three supports on top of one another.

SLAB SUPPORT PP

ADVANTAGES

- Good UV stability
- Very good chemical resistance
- Surface water can quickly and easily run off through the grooves
- Up to three units can be stacked on top of one another

Example of application: Slab suppor EPDM

Example of application: Slab support PP

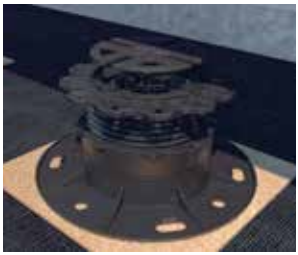
IMPATE PLATE

The Eurotec impact plate Ø 90 mm is used to **compensate for differences in the slabs** and to **dampen impact** sound when stone or ceramic slabs are laid on top. The impact plate Ø 90 mm can **be split up into four parts**.

ADVANTAGES

- Flexible use
- Cuttable
- Resistant to ageing
- UV-stable
- Resistant to ozone
- Permanently elastic & dimensionally stable

COMBINATION OPTIONS



Adjustable pedestal PRO with impact plate

Flex-Stone-Clip with impact plate

Stone-Edge-Clip with impact plate

STONE SLAB LIFTER

ADVANTAGES

- Simplifies and speeds up the lifting and laying of floor slabs.
- Also suitable for subsequent lifting of already laid slabs.

QUATTRO-LAGER

ADVANTAGES

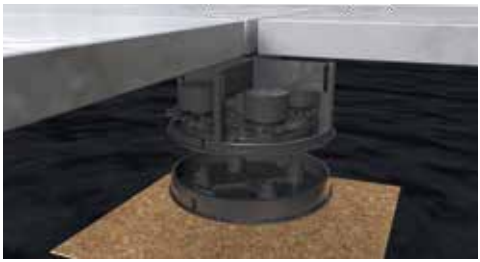
- Four different support heights are possible thanks to individually adjustable gearwheels.
- Support height: 35–55 mm
- Joint spacer: 6 mm
- The height can be extended by placing the Quattro Lager adapter underneath
- Can be split

Example of application: Quattro-Lager

ADAPTER
FOR QUATTRO-LAGER

ADVANTAGES

- Support height: 20 mm
- Can be split and stacked



Example of application: Quattro-Lager with adapter

STONE SLAB SPACER

ADVANTAGES

- Uniform joint pattern
- Optimum drainage
- They prevent the floor slabs from rubbing against one another and therefore prevent damage to the slab edges.
- They have predetermined breaking points and are therefore suitable for T-joints and cross joints.
- Durable
- Resistant to temperature and weathering
- Resistant to acids, alkalis and other chemicals

15 x 53 x 3 mm

30 x 53 x 5 mm

STONE SLAB SPACER
WITH BASEPLATE

ADVANTAGES

- Large baseplate preventsslab spacers from being pressed into gravel bed
- Uniform joint pattern
- Optimum drainage
- They prevent the floor slabs from rubbing against one another and therefore prevent damage to the slab edges.
- They have predetermined breaking points and are therefore suitable for T-joints and cross joints.
- Durable
- Resistant to temperature and weathering
- Resistant to acids, alkalis and other chemicals

Example of application: Stone slab spacer with baseplate

ADDITIONAL SUPPORT REINFORCEMENT

FLEXI GROUND ANCHOR

The Flexi ground anchor by Eurotec **acts as a foundation for low terraces**. It allows a terrace to be extended even without a stable foundation (depending on soil composition) and can be used without time-consuming excavation and setting in concrete. The shape allows the centre of the ground anchor **to be driven into the loose soil (e. g. a lawn) using a hammer**. It should be noted that the ground anchor does not have an impact s**urface and it could deform if driven into firm ground!**

Finally, an adjustable foot is affixed to the FLEXI ground anchor and the substructure and deck structure are applied. In this way, the danger of the adjustable feet sinking into the ground is reduced. **To be used with Eurotec adjustable pedestals except GIANT.**

ADVANTAGES

- No excavation or setting in concrete necessary
- Can be driven into the ground quickly and easily
- Reduces sinking of the adjustable feet

NO EXCAVATION AND CONCRETING NECESSARY!

Important

Please observe the application instructions in the corresponding product data sheet, which you can download from our website.

FLEXI ground anchor as a stable foundation for the terrace substructure.

Expand the terrace foundation with the FLEXI ground anchor.

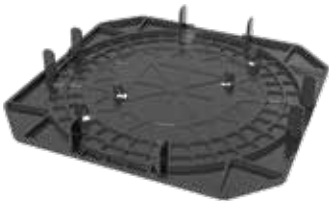
LOAD DISTRIBUTING PLATE

Installing a terrace on an **insulated flat roof** often gives rise to difficulties with regard to load and **load distribution**. Insulating materials can press through the terrace base at certain points, thereby damaging the insulation and the flat roof. With the **Eurotec load distributing plate**, by contrast, the load on the terrace base is spread over a greater surface and **distributed more evenly** across the terrace. In contrast to o**ther load distribution options** (such as stone slabs and wooden panels), load distributing plates are much more durable and easier to transport; they also weigh far less.

Load distributing plates can be combined with our PRO, SL PRO, BASE and SL BASE adjustable pedestals, our EVO and EVO Slim aluminium system profiles and the aluminium support-profile HKP.

ADVANTAGES

- Fast and easy assembly thanks to the click system
- Controlled load distribution
- Low weight helps to protect the subsurface
- Ease of transport, in contrast to alternative designs
- Durable and resistant to UV radiation and rot
- Low installation height compared to conventional load distribution solutions

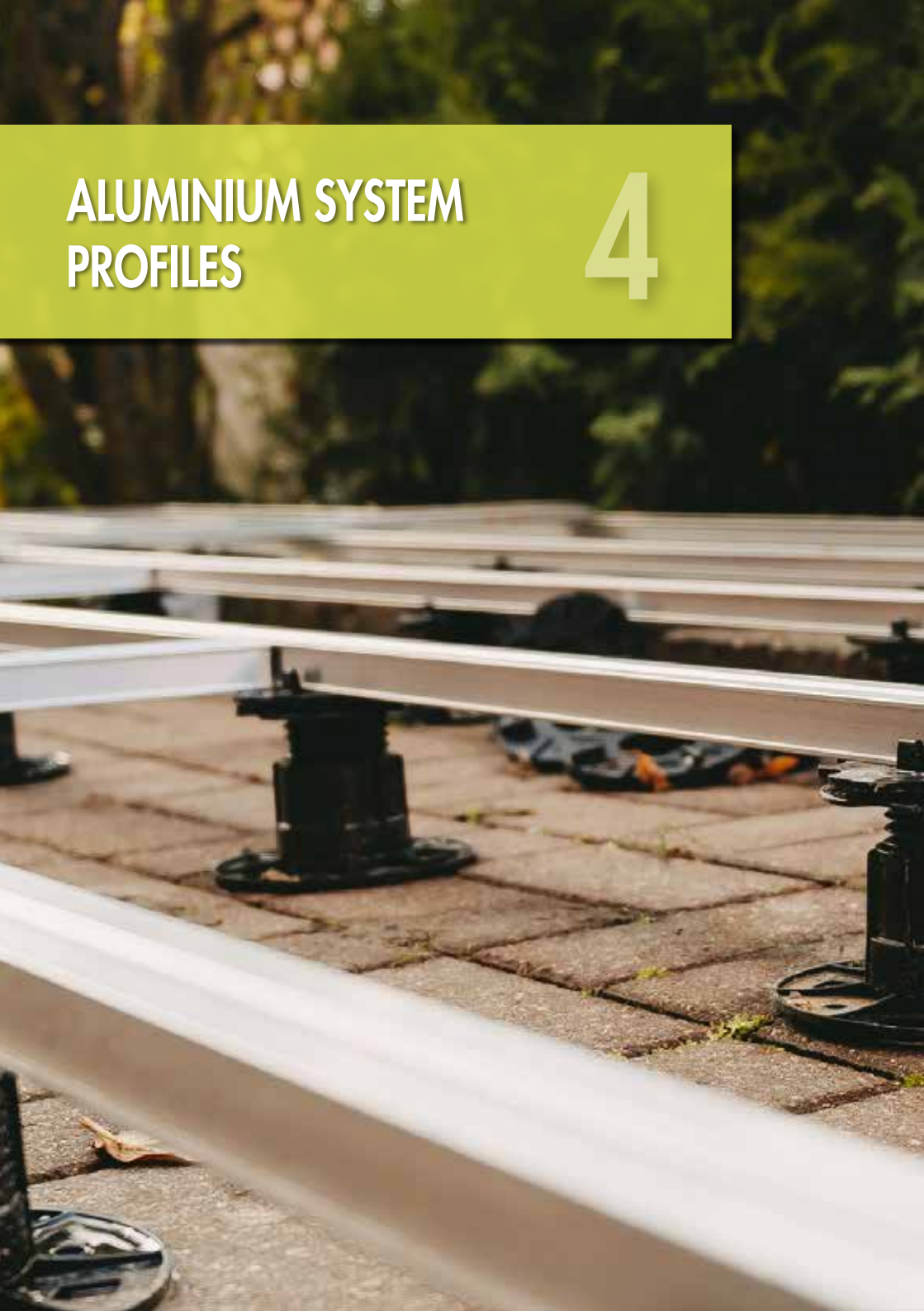


Load distribution plate + PRO M

Load distribution plate + BASE

ALUMINIUM SYSTEM PROFILES

4



OVERVIEW OF EUROTEC ALUMINIUM SYSTEM PROFILES



	EVO	EVO SLIM	HKP
Application area	All-rounder, highly flexible, for any covering	Particularly suitable for low structural heights	To bridge high span widths
Dimensions	40 × 60 × 2400 mm 40 × 60 × 4000 mm	20 × 60 × 2400 mm 20 × 60 × 4000 mm	100 × 60 × 4000 mm
Material	Aluminium	Aluminium	Aluminium
Hidden fastening	✓	✓	✓
Visible fastening	✓	✓	✓

COMBINATION OPTIONS

	EVO	EVO SLIM	HKP
EVO aluminium system profile connector 	✓	–	✓
EVO corner connector 	✓	–	✓
EVO slim aluminium system profile connector 	–	✓	–
Eveco corner connector 	–	✓	–

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

- 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

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

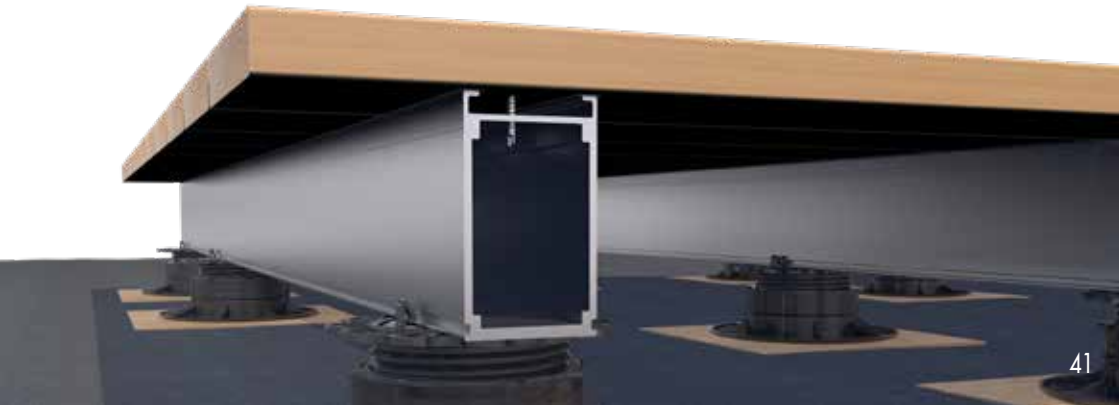
- Compatible with our adjustable pedestal PRO with L adapter or click adapter 40
- Only two parts of the system for a whole deck substructure
- High load bearing capability
- Large support widths
- High dimensional stability and evenness
- Low dead load
- High flexibility, high durability
- Attractive, clean enclosed frame
- Material savings

COMBINATION OPTIONS

Aluminium support-profile connector HKP

Fascia profile HKP

Twin system clip



ACCESSORIES FOR THE MULTI-FUNCTIONAL STONE SYSTEM

The Eurotec Flex-Stone-Clip and Stone-Edge-Clip are **specially designed for the Eurotec EVO and EVO Slim** aluminium system profile, and for the **HKP support-profile**. It can also be used in combination with Eurotec adjustable feet. When combined with the Eurotec adjustable feet, it is possible to create a so far **unique, professional elevation of the substructure** for all types of concrete and **natural stone slabs**.

FLEX-STONE-CLIP

ADVANTAGES

- For clipping onto the aluminium system profiles in the installation location
- The new Flex Stone Clip is flexible enough to com pensate for production-related tolerances of up to 2 mm in stone slabs.
- The joint width is 4 mm

Notes

The flexibility of the Flex-Stone-Clips means that production-related tolerances on stone slabs of up to 2 mm can be compensated.

Example: Flex-Stone-Clip

STONE-EDGE-CLIP

ADVANTAGES

- For clipping onto the edge of the aluminium system profiles
- To prevent the stone slabs from slipping in the area around the edges, it is necessary to fix the clips with a profile drilling screw of 4.2 x 35 mm
- The joint width is 4 mm

Example: Stone-Edge-Clip

SUPPORT CLIP SET

Eurotec's support clip set comprises two individual clips and two cork pads to support the decking. The set offers a flexible alternative to conventional support measures and prevents stone slab breakages. During installation, large-format stone slabs can easily break due to a lack of support below the covering.

The support clip can be combined with the EVO Light aluminium system profile and clicked in at the relevant point on the substructure or mounted using fixing screws. The cork pads are then inserted into the top part of the EVO Light aluminium system profile, helping to absorb footfall noise.

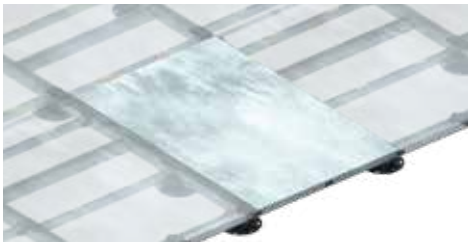
ADVANTAGES

- Prevents stone slabs from breaking quickly
- Foot fall noise insulation by using cork pads
- Possible to adjust to the standard centre-to-centre spacing of the substructure
- Adjusting feet as well as EVO aluminium system profiles can both be done away with thanks to the support clip
- Possible to mount the clips using a click system or fastening screws

SET CONSISTS OF

- 2x Support clips
- 2x Cork Pads
- 2x BiGHTY drilling screw 4,8 x 25 mm
- 2x Aluminium profile drilling screw 4,2 x 35 mm

Increased risk of breaking individual slabs due to a lack of support profile.



Increased risk of breaking after mounting the support clip set.

EDGE JOINTS

5

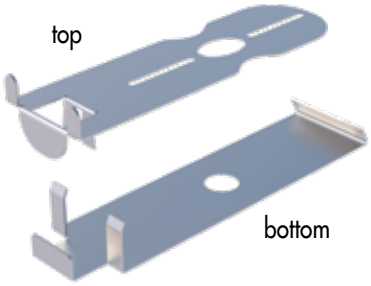
TERRA EDGE FINISH SINGLE SUPPORT

OPTIMAL FÜR STEINTERRASSEN

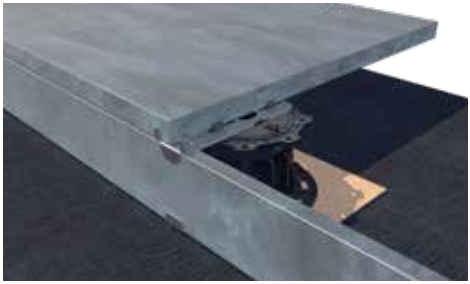
The Eurotec **TERRA edge finish single support** is a simple, top quality way of forming edge finishes **for stone decks with individual support**. The set is made up of **two stainless steel profiles**, one of which is placed on top of the adjustable foot and one underneath it, so that the **cut slabs are bordered at the top and bottom**. For this to work, the stones must be **cut to the desired height** and then inserted **between the frames**. The edge finish single support can be combined with the Eurotec **adjustable feet professional line S–XL, along with GIANT S–XL.**

ADVANTAGES

- Simple assembly – no screws or drilling required
- Top quality stainless steel edge support – no danger of corrosion
- Frames help prevent subsequent slipping of the stone slabs.



Both individual parts are placed under and on top of the adjustable pedestal GIANT.



Both individual parts are placed under and on top of the adjustable pedestal PRO.

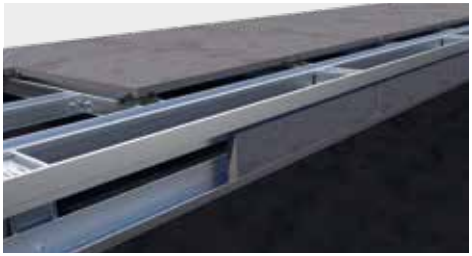
DECK END PROFILE FOR ALUMINIUM SUBSTRUCTURES

FOR TERRACES WITH FLAGSTONE FLOORING

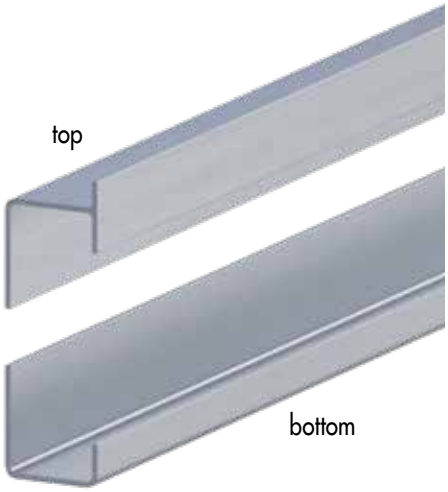
The Eurotec deck end profiles for aluminium substructures deliver a **visually attractive border** on decks with stone slab flooring in combination with the Profi-Line adjustable pedestals and the EVO aluminium system profile. The system **consists of two end profiles**, which enclose the deck's upper and lower edges respectively.

ADVANTAGES

- Visually attractive border
- Versatile applications



Example of application: End profiles for aluminium substructure



Note

The product only includes the particular aluminium end profiles. All other components must be ordered separately. Per fastening, these include: EVO aluminium system profiles, 90° EVO joint, EVO corner connector and 6x BiGHTY 4,8 x 25 mm drilling screws (art. no. 954090-50, PU: 50). (4x for the 90° EVO joint and 1x each for the connections to the top and bottom deck edging end profiles). For slab thicknesses of less than 40 mm, the resulting free space must be filled with compression seal tape.

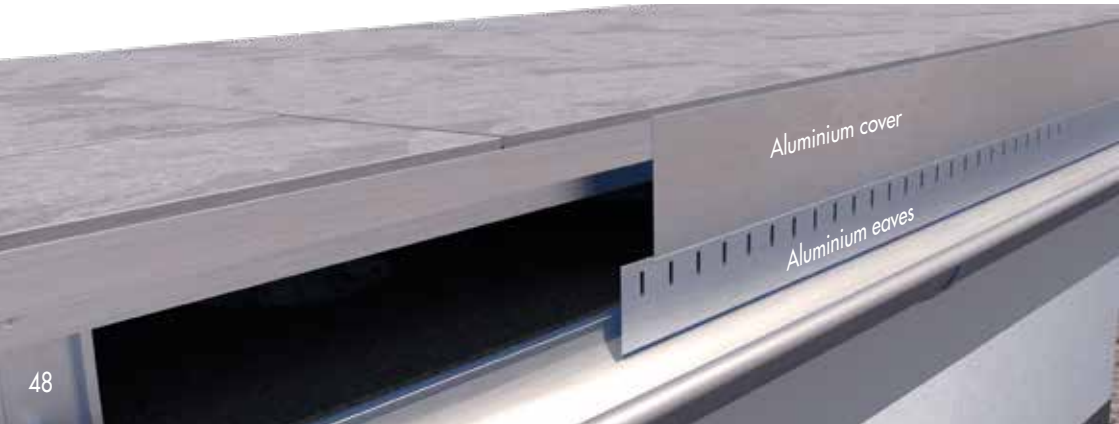
ALUMINIUM COVER
FOR VISUALLY APPEALING EDGING

The aluminium cover can be combined with the tops of the terrace edge profiles for an aluminium substructure and single bearing or with the stone-edge clip to a high-quality terrace edge.

ADVANTAGES

- Easy assembly
- Flexible border design
- It is possible to match the complete edge structures together
- Can be combined with all standard gutter systems/eaves fascia

Example of application: Aluminium cover



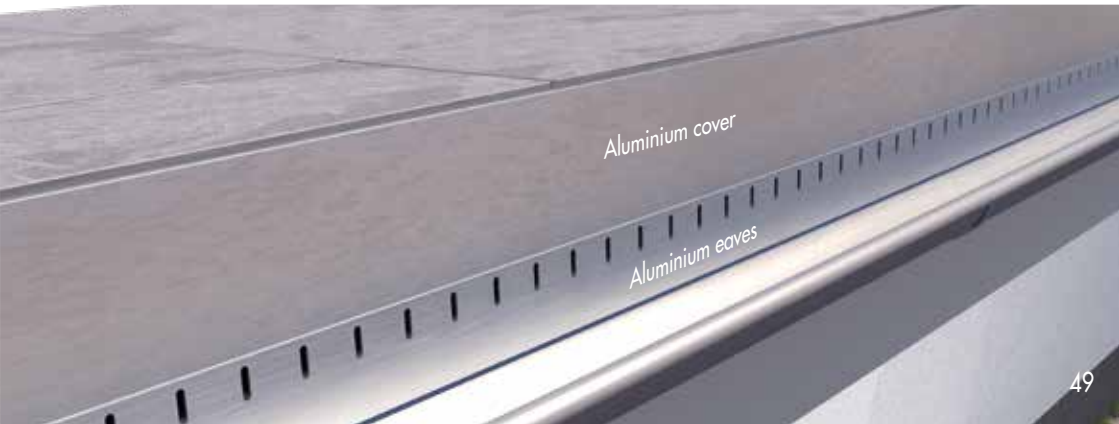
ALUMINIUM EAVES
FOR VISUALLY APPEALING EDGING

The aluminium eaves offers an additional opportunity to form the terrace edge. It is available in 3 cm and 5 cm in height. The aluminium eaves forms the lower part or the entire panel for smaller heights. Combined with the aluminium cover, the side openings can be closed.

ADVANTAGES

- Easy assembly
- Elegant view
- Flexible border design
- It is possible to coordinate the complete edge structure
- Freely combinable with all standard gutter systems
- The lower sheets are enclosed within the sealing
- Integrated water drainage

Example of application: Aluminium eaves



PRODUCTS FOR DRAINAGE
AND TO FINISH THE EDGE OF THE TERRACE

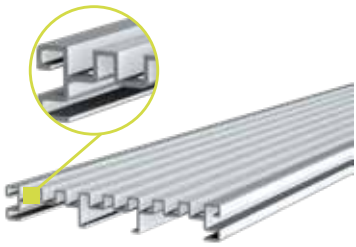
The DrainTec aluminium drainage grate is used for controlled water drainage. The DrainTec drainage grate focuses mainly on the connection detail of building openings. This refers to door connection areas, or transitions from vertical façade surfaces to horizontal terrace surfaces, for example. The wood 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

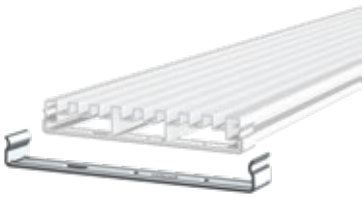
- Can be combined with the Eurotec product range to create elevated deck areas
- As an inspection and cleaning fitting
- Even for low door-joint heights
- For creating barrier-free, wheelchair-friendly transitions
- Also suitable for direct mounting on load-bearing foundations



DRAINTEC CLIP

PROPERTIES

- 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.*

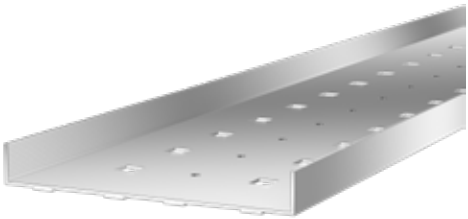
With DrainTec *the rain is drained off in a controlled manner and the rainwater flows directly into the foundation.*

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.

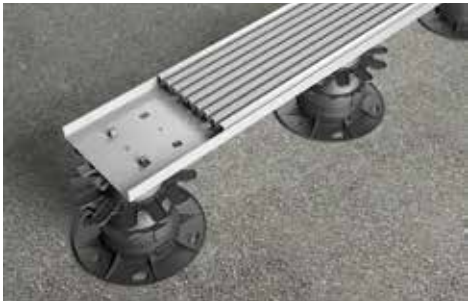
ADVANTAGES

- 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 support-profile HKP
- Easy to lay
- Weather-resistant
- Compatible with adjustable pedestals PRO S–XL



Instructions for use

When using on an aluminium substructure we strongly recommend the use of our MaTre band (art. no. 945319). This serves to 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.

DRAINTEC ADAPTER

The DrainTec Adapter is a special accessory for the DrainTec Base. This permits another stone slab to be laid on the base instead of our DrainTec drainage grid. The adapter is inserted on top of the DrainTec Base and then sits firmly on the profile. The adapter can receive one stone slab or alternatively two stone slabs butted together, with the centre spacers of the adapter providing an even pattern of joints. The width of the stone slab needs to be 114 ± 0.5 mm in order to create a joint on the sides through which water can run off and be drained away in a controlled manner using the DrainTec Base.

ADVANTAGES

- Two attachment points enable the adapter to be fixed to the DrainTec Base.
- If DrainTec Base is attached to one of our PRO S–XL adjustable pedestals, the inserted stone slab can be adjusted to the level of the stone slabs of the terrace

Side view of the DrainTec adapter under a stone terrace.

The Draintec adapter allows rainwater to drain away in a controlled manner, with additional back ventilation arising at many detailed points.


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