



SOLUTIONS FOR HORTICULTURE

Ground fastening and Pot Holders

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Together for tomorrow.

Thank you for your interest in HÜBNER-LEE solutions. You are making the right choice. Economical. Environmental. Emotional.





This is us.

The company founders Ernst Hübner and Gyung-Hyun Hübner-Lee. Three siblings following in their parents' footsteps. A great team that invests its time and heart and soul in a green future. This is HÜBNER-LEE.

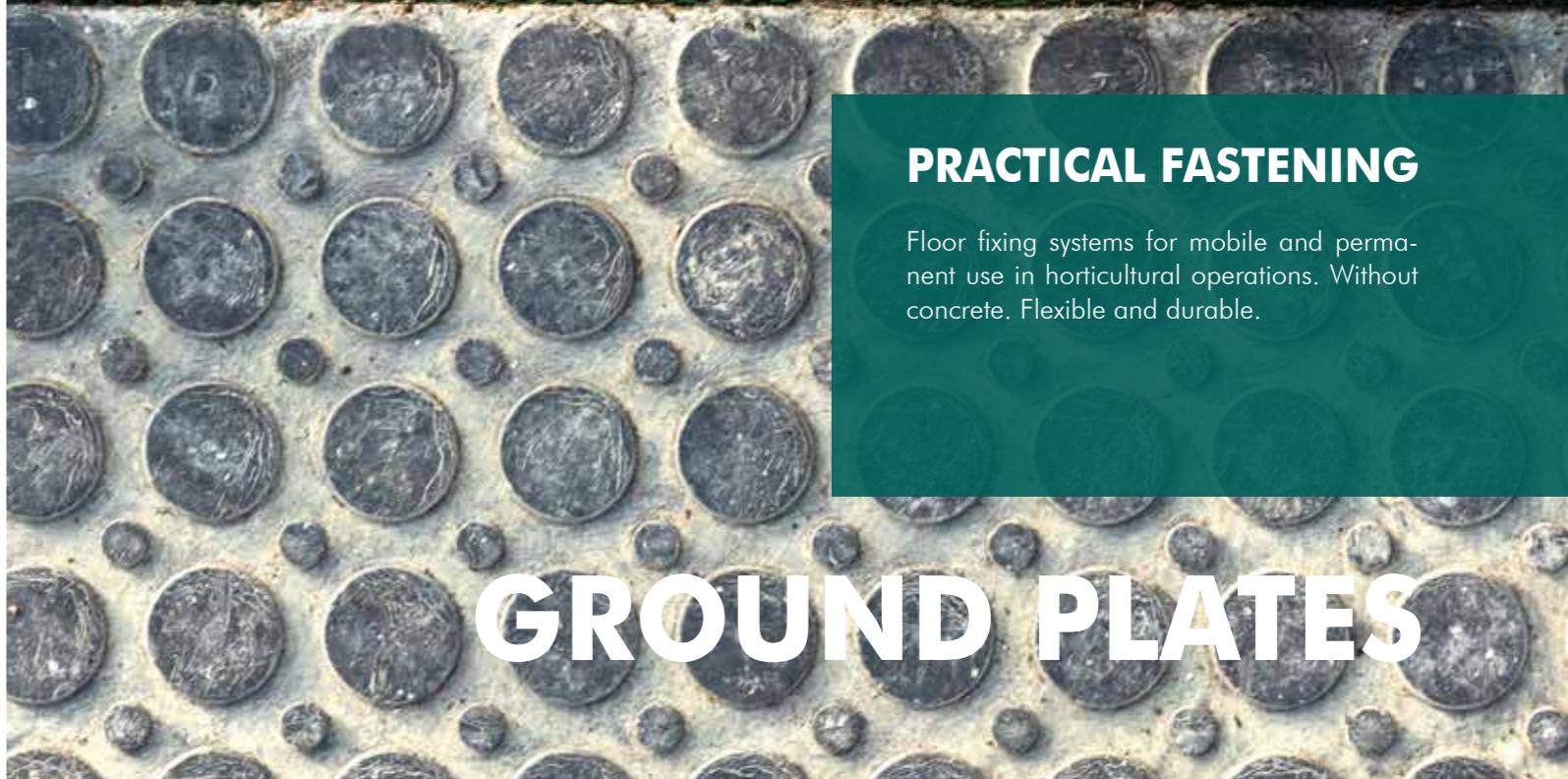
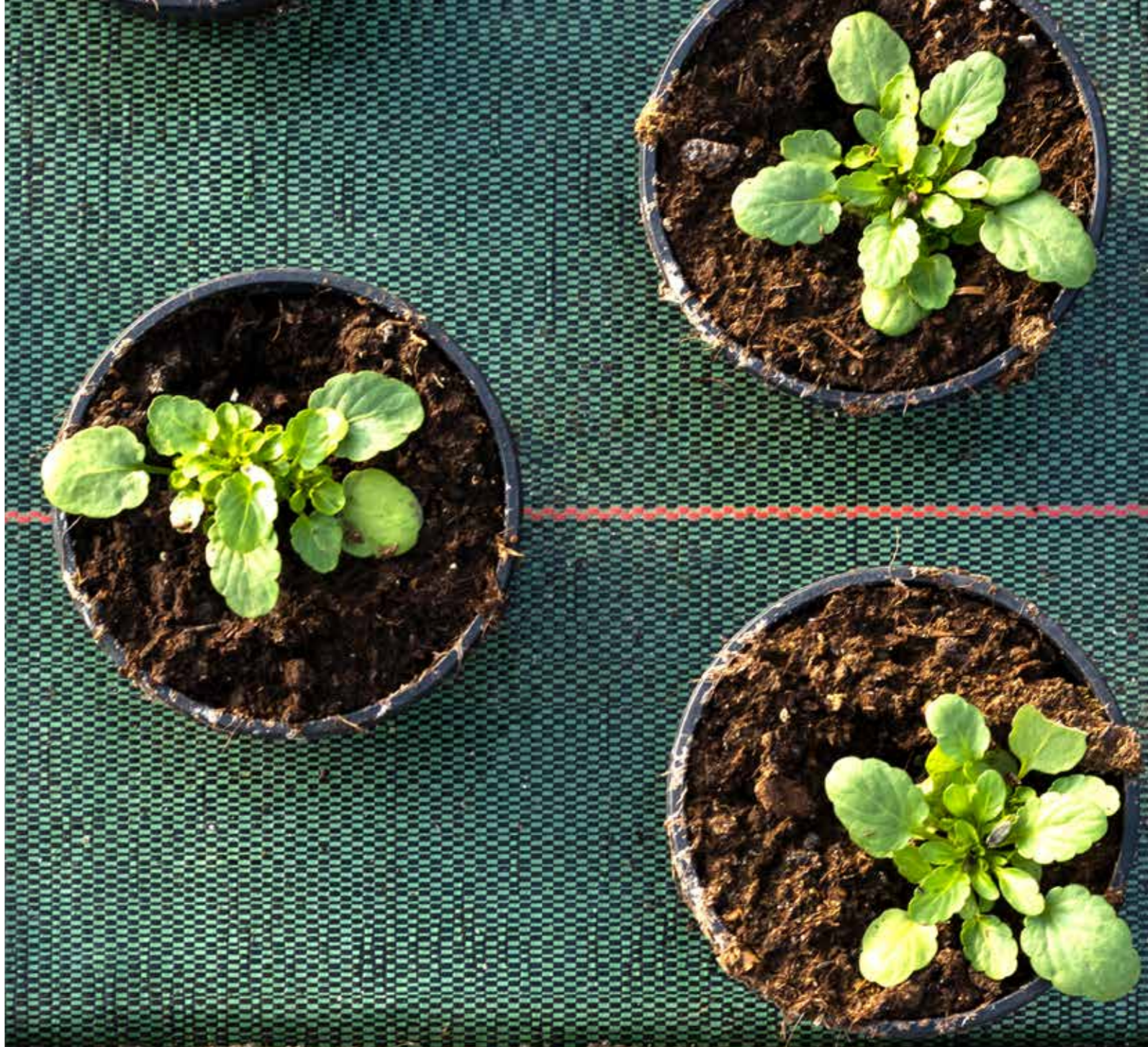
As a down-to-earth family business, we are your reliable partner in horticulture with dedication and expertise. Whether green parking area, paving for logistics areas or storm protection for your pot cultures: make your project a success with us.

Yours, Dirk Hübner
Director



HÜBNER-LEE - Your specialist in horticulture since 1991





PRACTICAL FASTENING

Floor fixing systems for mobile and permanent use in horticultural operations. Without concrete. Flexible and durable.

GROUND PLATES

CC TROLLEY TRACKS

THE ALTERNATIVE TO CONCRETE SLABS

A practical road plate made of smooth-running plastic – that is the idea behind the CC Trolley Track. It serves as a pavement slab for staff and customers or as a wheel guiding system for CC trolleys and transport carts and can be laid extremely easily.

CC Trolley Tracks make low demands on the substrate and are a high-quality alternative to conventional concrete road plates. The recycled plastic used is characterised by durability, elasticity, noise insulation and weather resistance. The low weight of only 18 kg allows you to lay the CC Trolley Tracks by hand or to dismantle them for changes to the logistics paths.

The benefits

- quiet working environment
- interlocking and wheel guide
- cost-effective
- easy to handle at up to 18 kg
- quick realisation
- slip-resistant
- > 20 years of service life
- combinable with Multikett plates (p. 12)



CC Trolley Track

CC Trolley Tracks and accessories

Description Art. No.	Dimensions Usable size	Weight	Material
CC Trolley Tracks			
1342.5024	122 x 54.5 x 5 cm 120 x 51 cm	18 kg	100% recycled plastics from cable sheathing
Ramps			
top-linked 1342.5028	54.5 x 11 x 2.5 cm	1.3 kg	100% recycled plastics from cable sheathing
bottom-linked 1342.5029	54.5 x 11 x 2.5 cm	1.3 kg	100% recycled plastics from cable sheathing
Special design: long ramp, bottom-linked 1342.5031	54.5 x 21 x 2.5 cm	1.5 kg	100% recycled plastics (PE)

Ramps for CC Trolley Tracks



ALWAYS ON TRACK

An especially smart feature is the wheel guidance of the CC Trolley Tracks. It facilitates effective work and you stay on the path.



LAYING & NOTES

CC Trolley Tracks can be installed in a mobile or stationary manner, depending on whether you want to attach the surface temporarily or permanently.

The plates can be easily cut with a circular saw (hard metal blade).

Please do always observe integrated expansion joint of 5 mm. Lay with ~ 5 mm spacing in cold conditions and with ~ 2 mm spacing in warm conditions.

Stationary CC Trolley Tracks are laid on a paved surface. The minimum requirement is a 3 - 5 cm thick layer of fine chippings (see image on the right). Mobile installation is even easier: Simply lay the CC Trolley Track on a level surface. Done.



Scan and experience CC Trolley Tracks in action on YouTube.



CC TROLLEY TRACKS GALLERY



CC- VS. CONCRETE SLABS

- Recycled plastic products emit approx. 5 times less CO₂ during production than comparable concrete products.
- CC Trolley Tracks weigh less than 1/3 of comparable concrete products.
- 1/3 weight means: 3 times more running meters per truck and thus lower transport costs.

MULTIKETT AND MULTI-PURPOSE PLATES

FOR CUSTOMERS AND TRANSPORT CARTS

Multikett and Multi-purpose plates from HÜBNER-LEE are smooth, handy and extremely quick to install. Multikett plates are interlinked and form permanently stable surfaces. Multi-purpose plates, on the other hand, are not interlinked, lighter and correspondingly less expensive.

As an economic alternative to concrete paths, both solutions have been used in horticulture for more than 25 years.

The benefits

- record-breaking fast installation time due to low weight and uncomplicated linking
- significantly reduced rolling noise compared to concrete paths
- safety for customers and employees through non-slip, textured surface
- > 20 years of service life



Multikett plate
The practical alternative to unwieldy concrete slabs.

Multikett plates and CC Trolley Tracks can be used in combination.

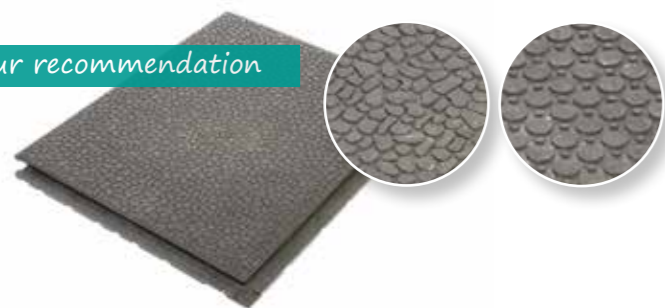
MULTIKETT PLATES GALLERY



Multikett plates - the models with linkage

Description Art. No.	Dimensions Usable size	Weight	Profile	Material
Multikett plate S				
1342.2024	60 x 80 x 2 cm 58 x 76 cm \triangleq 0.44 m ²	11.5 kg	anti-slip stone profile	100% recycled plastics from cable sheathing
1342.2022	60 x 80 x 2 cm 58 x 76 cm \triangleq 0.44 m ²	11.5 kg	anti-slip coin profile	100% recycled plastics from cable sheathing
Multikett plate L				
1342.2020	120 x 80 x 2 cm 116 x 76 cm \triangleq 0.88 m ²	20 kg	anti-slip coin profile	100% recycled plastics from cable sheathing
Ramps				
top-linked 1342.2028	40 x 10 x 2 cm	0.6 kg		100% recycled plastics from cable sheathing
bottom-linked 1342.2029	40 x 10 x 2 cm	0.6 kg		100% recycled plastics from cable sheathing

Our recommendation



Multikett plate S, stone and coin profile

Our recommendation thanks to its handy size and optimized expansion joint.



Multikett plate L, coin profile

The Multikett plate L with \varnothing 22 mm perforation is available on request.



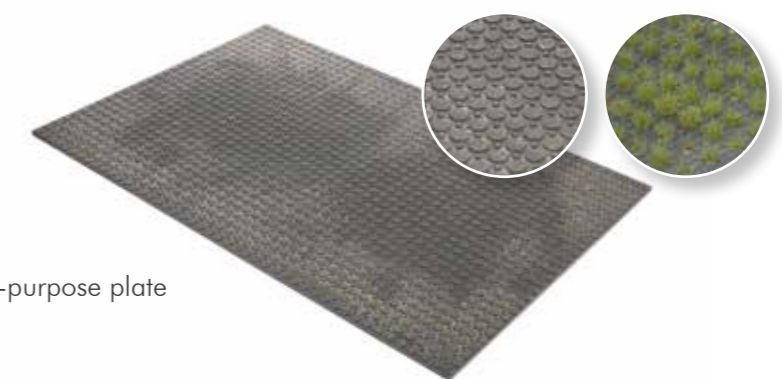
Ramp for Multikett plates

Multi-purpose plates - the models without linkage

Description Art. No.	Dimensions	Weight	Profile	Material
Multi-purpose plates				
1342.5022	120 x 80 x 1 cm \triangleq 0.96 m ²	16 kg	anti-slip coin profile	100% recycled plastics from cable sheathing
Multi-purpose plates, perforated				
1342.5021	120 x 80 x 1 cm \triangleq 0.96 m ²	14.5 kg	anti-slip coin profile, perforated \varnothing 40 mm	100% recycled plastics from cable sheathing

The perforated Multikett and Multi-purpose plates are ideally suited for the temporary paving of lawns, e.g. for

- events
- car parking lots
- mobile sales booths



Multi-purpose plate



Worldwide, only 14% of discarded plastic is recycled. The majority ends up in the environment, in landfills or is incinerated.

We are doing something to counteract this. That's why we produce our ground plates and grids from 100% recycled plastic.

Source: PLASTIKATLAS, Appenzeller, Hecher, Sack CC-BY-4.0

LAYING & NOTES

Multikett and Multi-purpose plates can be installed in a mobile or stationary manner, depending on whether you want to attach the surface temporarily or permanently.

Stationary installation for carts and wagons

- unfastened surface: min. 3 to 5 cm fine gravel (2 – 5 mm) as levelling and stabilisation layer
- lay woven ground cover fabric if necessary
- observe integrated expansion joint of 5 mm (in cold conditions: ~ 5 mm, in warm conditions: ~ 2 mm)

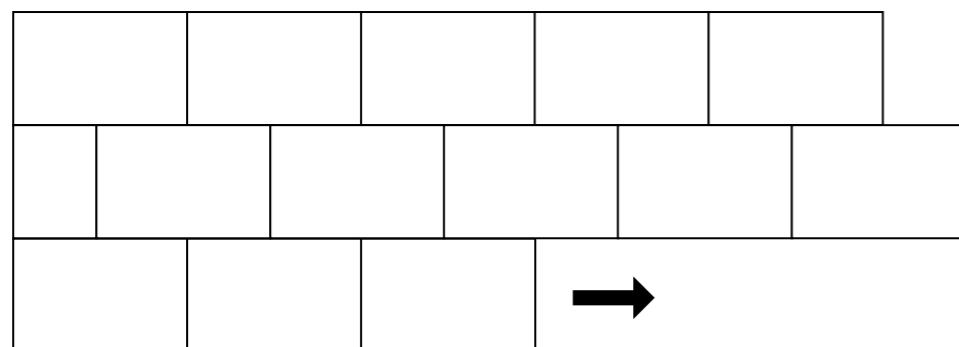
Stationary installation for loads up to 3 t

- unfastened surface (Ev2 value: min. 10 MN/m²)
- approx. 20 cm gravel base layer
- 3 to 5 cm fine gravel (2 – 5 mm)
- lay woven ground cover fabric if necessary
- observe integrated expansion joint of 5 mm (in cold conditions: ~ 5 mm, in warm conditions: ~ 2 mm)



Notes:

- lay with offset → T-joint
- easy to cut to size by using a circular saw (carbide blade)
- pay attention to expansion joints (see above)
- for large areas we recommend Multikett plate S with an optimized expansion joint



HEAVY-DUTY PLATES

FOR TEMPORARY USE

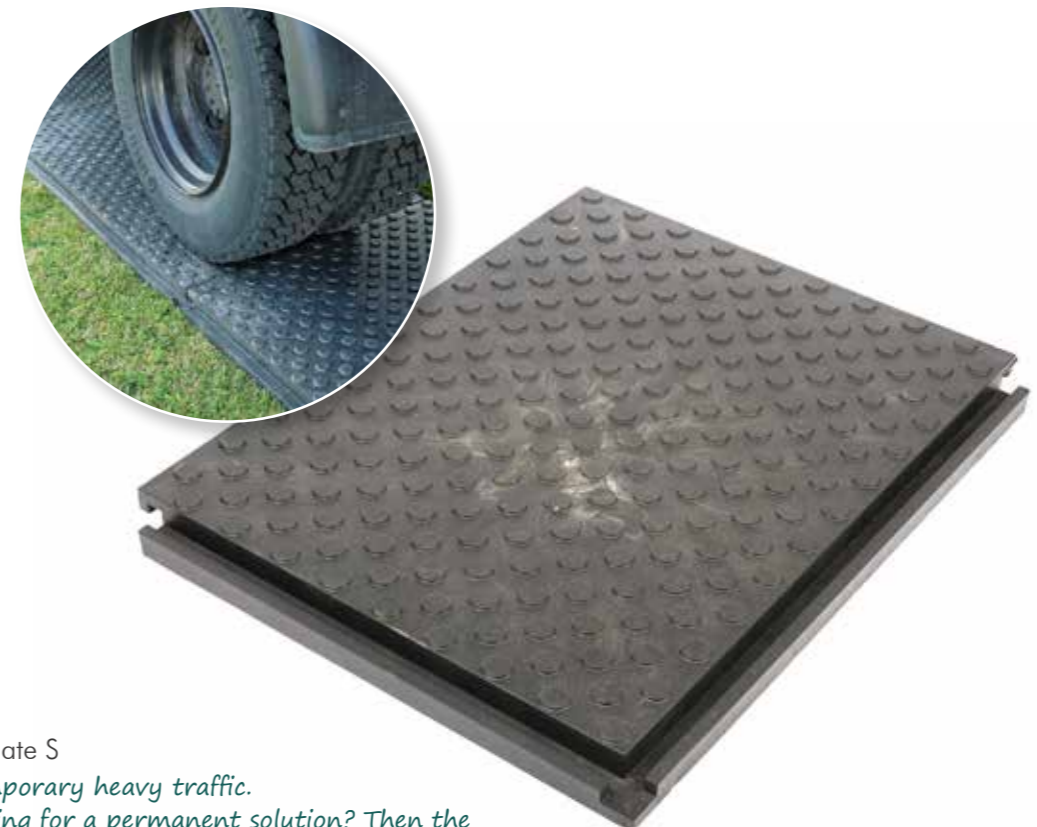
When driving on floors with high loads, the subsoil quickly reaches its limits. Just a few days of rain are enough to get stuck in the mud.

With HÜBNER-LEE's heavy-duty plate, you can pave paths and surfaces fast and with no effort. As a result of interlinking on the other side, the roadway plates can be used flexibly and require no additional connecting elements.

Heavy-duty plates can be used for access to construction sites or wherever temporary, heavy-duty soil protection is necessary. Sensitive substrates, such as lawns, are thus protected from damage.

The benefits

- flexible assembly and disassembly: perfect for temporary use
- load-bearing with up to 7.5 t vehicle load on unpaved surfaces, on a paved surface up to 40 t
- record breaking installation times



Heavy-duty plate S
*Ideal for temporary heavy traffic.
 Are you looking for a permanent solution? Then the TTE® system (p. 27 et seq.) is the right choice for you.*

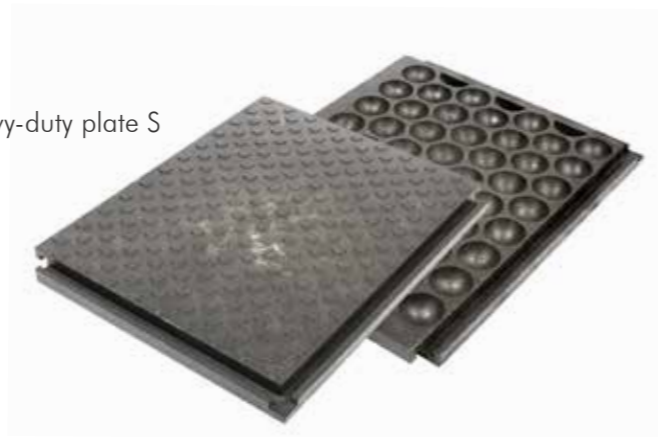
The Heavy-duty plates

Description Art. No.	Dimensions Usable size	Weight	Profile	Material
Heavy-duty plate L				
1342.2060	120 x 80 x 4 cm 116 x 76 cm \cong 0.88 m ²	34 kg	Chequerplate profile	100% recycled plastics from cable sheathing
Heavy-duty plate S				
1342.2056	60 x 80 x 4 cm 58 x 76 cm \cong 0.44 m ²	18 kg	Nubbed profile	100% recycled plastics from cable sheathing
Ramps				
top-linked 1342.2048	40 x 10 x 4 cm	1.2 kg		100% recycled plastics from cable sheathing
bottom-linked 1342.2049	40 x 10 x 4 cm	1.2 kg		100% recycled plastics from cable sheathing

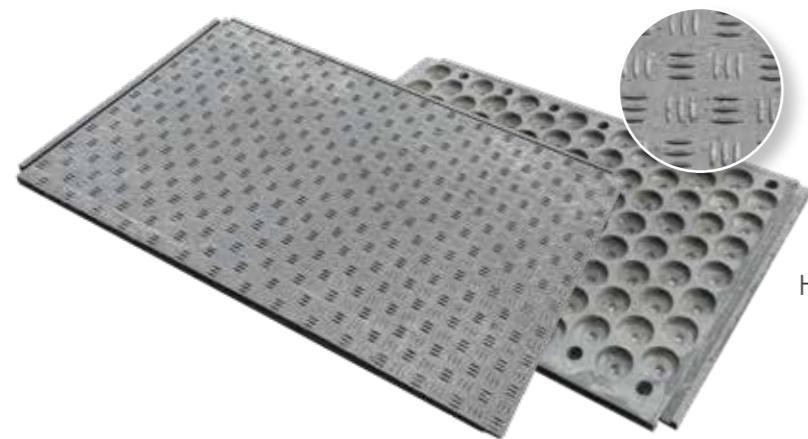
Ramps for Heavy-duty plates



Heavy-duty plate S



Heavy-duty plate L



WIND THROW PROTECTION+

A system that saves working time, pays itself back within a few years and can be used over and over again. For years.

POT HOLDERS

THE FLEXI TRAY

For almost 30 years, the classic potholder system (p. 23 - 25) has been protecting container plants from wind damage. It saves working time and ensures homogeneous plant growth. We developed the Flexi Tray in close cooperation with our customers. The construction allows maximum flexibility in terms of plant spacing and full functionality.

The benefits

- wind throw protection
- 100% recycled plastic
- linkable
- flexible plant spacing
- less water evaporation
- can be used for many years (~ 15 years)

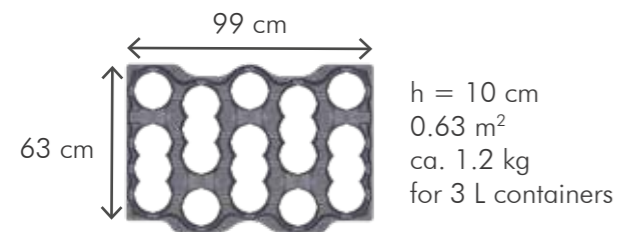
Amortisation in a short time

- reduced workload
- no more plant damage
- homogeneous growth

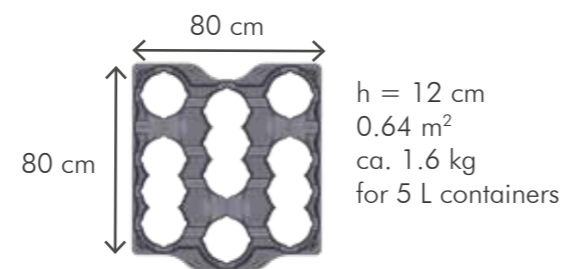


THE MODELLS

flexi tray i19



flexi tray i23



All Flexi Tray models at a glance

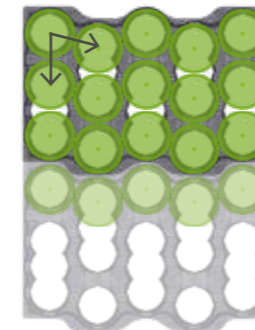
Model	Art. No.	Litre	Confection	max. Ø bottom	plants per tray	plants per m²
i19	1921.1915	3	19 cm	150 mm	15	23.7
i23	1921.2309	5	23 cm	180 mm	9	14.9

FLEXI TRAY i19 - FOR FLEXIBLE PLANT SPACING

Plant spacing 20 cm

- 15 plants/tray
- 1.58 trays/m²
- 23.7 plants/m²

20 cm



Plant spacing 28 cm

- 10 plants/tray
- 1.58 trays/m²
- 15.8 plants/m²

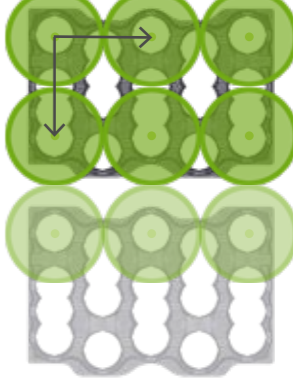
28 cm



Plant spacing 40 cm

- 6 plants/tray
- 1.04 trays/m²
- 6.25 plants/m²

40 cm

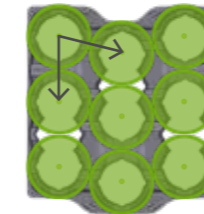


FLEXI TRAY i23 - FOR FLEXIBLE PLANT SPACING

Plant spacing 27 cm

- 9 plants/tray
- 1.66 trays/m²
- 14.94 plants/m²

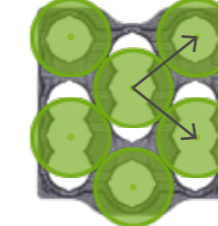
27 cm



Plant spacing 38 cm

- 6 plants/tray
- 1.66 trays/m²
- 9.96 plants/m²

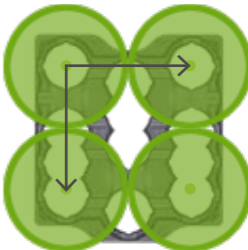
38 cm



Plant spacing 49 cm

- 4 plants/tray
- 1.04 trays/m²
- 4.16 plants/m²

49 cm



POT HOLDER GALLERY



OUR CLASSICS

HÜBNER-LEE's classic Pot Holders are the optimal solution when it comes to maximum wind protection for potted plants and container cultures. The Pot Holders are available in seven variants. As a plate version with an open bottom for 2.5 to 10 litre containers. Or as a single version with a closed bottom for 12 to 40 litre containers. Completely according to your needs.

The benefits

- no more wind throw damage
- no groundwork necessary, no milling
- frost protection by hollow chambers
- particularly suitable for tall plants
- usable for many years (~ 15 years)



 **MADE IN GERMANY**

Eco-friendly

- made of 100% recycled plastics
- when laid as plates, eliminates the need for herbicides and follow-up weed treatments

Cost-saving

- reduced workload
- amortisation within a few years
- clean pots
- easy storage due to space-saving stacking



TH 180 for 5 L containers
plate version, open bottom
Ideal for production and presentation.

7 MODELS FOR EVERY NEED

Plate versions

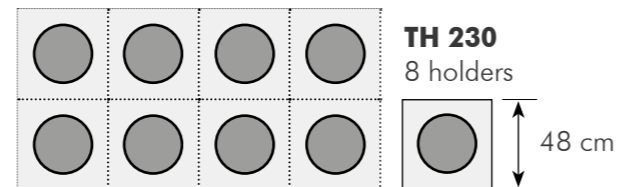
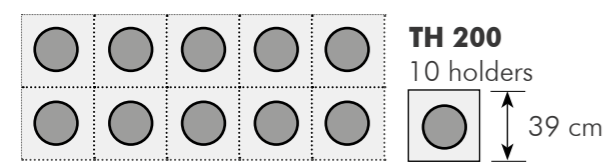
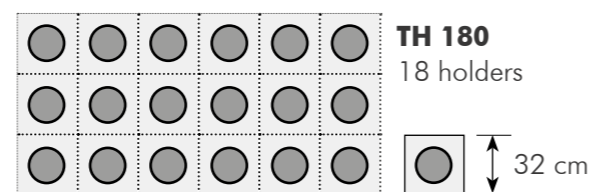
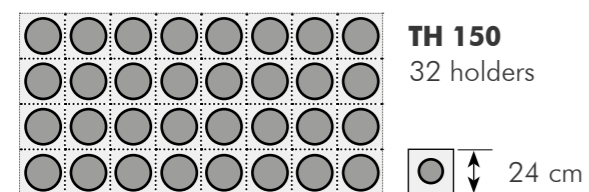
2.5 to 10 litre-containers, open bottom

- offer the best stability
- ideal for production and sales areas
- easy to cut using an angle grinder (1 mm saw blade)
- ideal for mat irrigation and/or closed irrigation systems
- particularly suitable for production setups and nurseries



Plate versions on a glance

Model	Art. No.	Litre	Confection	max. Ø bottom	L x W x H in cm	Bottom	Holders / Plate
TH 150	1921.9151.32	2.5 - 3			186 x 93 x 10	open	32
TH 180	1921.9181.18	4 - 5			186 x 93 x 12	open	18
TH 200	1921.9201.10	7.5			192 x 77 x 14	open	10
TH 230	1921.9231.08	10			186 x 93 x 15	open	8



*All plate versions of our Pot Holders can also be ordered as single versions on request.

Model designation



TH 150

for pots with max. pot bottom-Ø up to 150 mm



Single versions

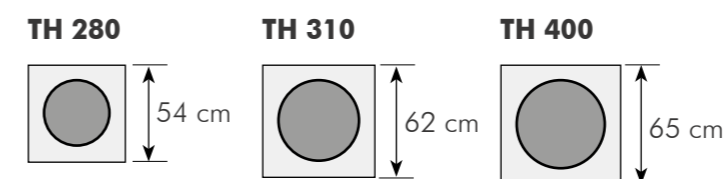
12 bis 40 litre-containers, closed bottom

- flexible arrangement
- particularly suitable for sales and presentation areas thanks to adjustable water storage.
- required water reservoir height is set by cutting the predefined spigots or piercing them with a soldering iron.



Single versions on a glance

Model	Art. No.	Litre	Confection	max. Ø bottom	L x W x H in cm	Bottom
TH 280	1921.9282.01	12 - 15			54 x 54 x 18	closed
TH 310	1921.9312.01	20 - 25			62 x 62 x 21	closed
TH 400	1921.9402.01	35 - 40			65 x 65 x 24	closed



You can find more information about the Pot Holders at huebner-lee.de/en/potholders

**„WHAT WE
DO *today*
DETERMINES HOW
THE WORLD
WILL LOOK LIKE
tomorrow.“**



ECOLOGICAL SURFACE CONSTRUCTION

Regardless of whether it is a parking lot, a customer route or a logistics area: use unsealed areas to show that you care about the environment.

TTE® SYSTEM

SURFACE PAVING WITH TTE® - SUSTAINABLE, SIMPLE AND DURABLE

With the TTE® system, you can create unsealed areas from parking areas, through to logistics routes and areas, that allow direct, complete infiltration.

TTE® can be filled with paving stones or mineral fillers or planted with vegetation - there are no limits to your creativity when it comes to design.

In addition to the design options, TTE® is particularly impressive due to its high load-bearing capacity, sustainable functions and uncomplicated installation.



100% infiltration



Quick & easy to install - thanks to innovative connection system. For many applications without any substructure.



High load bearing capacity up to 40 t



CO₂ compensated and produced from 100% recycled post-consumer plastics



Material harmless to water, soil, and human

MILLION
SQUARE METRES
TTE® SINCE 1995



TTE® MULTIDRAIN^{PLUS}

80 x 40 x 6.2 cm | 8.7 kg/pc. \triangleq ca. 27 kg/m²
1 m² \triangleq 3.125 pcs.
Web thickness: inner grid approx. 1.5 cm; outer grid approx. 2 cm

Three solutions for maximum flexibility:
TTE® GREEN, TTE® PAVE and TTE® GRAVEL

TTE® GREEN

Thanks to its unique construction and high stability, TTE® GREEN - unlike classic lawn grids - impresses with its lush vegetation and high load-bearing capacity.

TTE® PAVE

An infiltration-capable paving that completely infiltrates even heavy precipitation and contributes to groundwater recharge.

TTE® GRAVEL

For gravel surfaces that are resilient, permanently level and water-permeable. Say goodbye to high maintenance and potholes.



IDEAL FOR DO-IT-YOURSELF CONSTRUCTION

TTE® is the perfect solution for do-it-yourself construction and is quick and easy to lay, even for non-professionals. By building without a substructure, you save a lot of time, money and labour compared to conventional paving surfaces.

It's that simple:



1

Prepare surface & level bedding



2

Lay empty or pre-filled TTE® directPAVE/ TTE® directGREEN grids



3

Fill empty grids with pavers or substrate and sow lawn if necessary.

DONE!



TTE® APPLICATIONS

TTE® is a real all-rounder and can be installed in countless areas of application thanks to its high resilience and uncomplicated design.

These include, among others:

- parking spaces
- logistic and storage areas
- sales and exhibition areas
- road paving
- cultivated areas
- fire department access roads
- floating root bridge to protect existing trees

The three filling variants TTE® GREEN, TTE® PAVE and TTE® MINERAL result in a wide range of design options that are adapted to the respective requirements and load of your surface.



THE RIGHT CONSTRUCTION METHOD FOR EACH REQUIREMENT

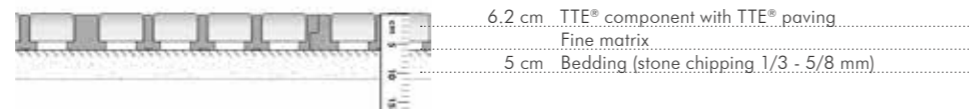
CONSTRUCTION METHOD 1

For pedestrians and occasional traffic up to 3.5 t total weight

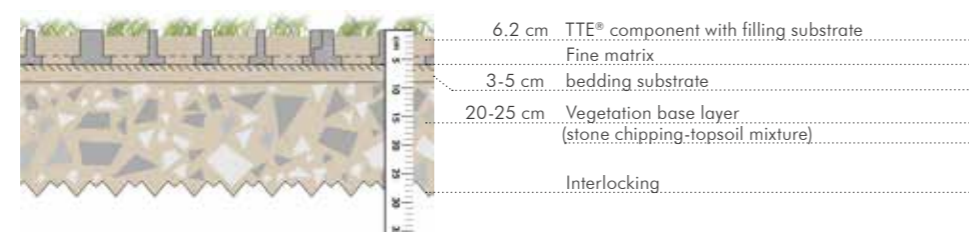
TTE® GREEN 1



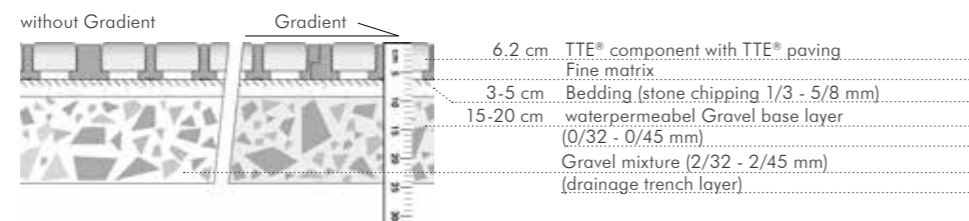
TTE® PAVE 1



TTE® GREEN 2



TTE® PAVE 2

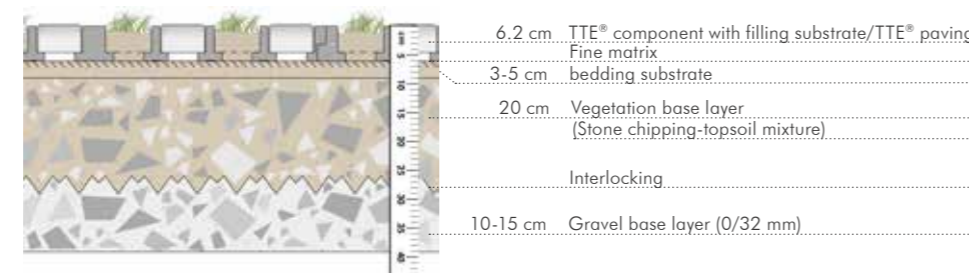


CONSTRUCTION METHOD 2

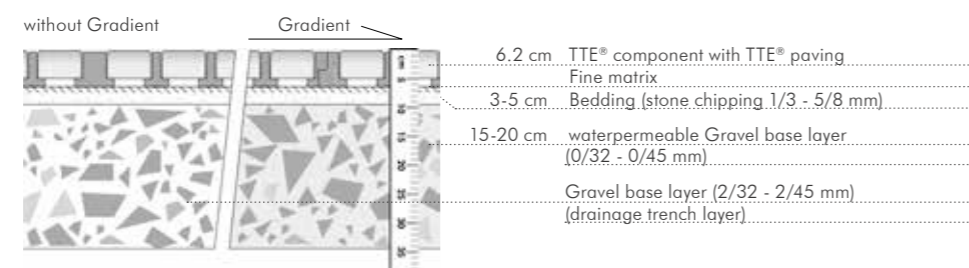
For traffic up to 3.5 t total weight and occasional heavy traffic

Corresponds to Bk 0.3 according to RStO

TTE® GREEN 3



TTE® PAVE 3



CONSTRUCTION METHOD 3

For heavy traffic up to 40 t

Corresponds to Bk 1.8 according to RStO



	Construction method 1	Construction method 2	Construction method 3
Mobile paving up to 3.5 tonnes vehicle weight	•		
Areas with occasional heavy traffic		•	
Areas with heavy traffic			•
Road surfacing for traffic up to 1.5 tonnes total weight	•		
Road surfacing for occasional traffic up to 3.5 tonnes total weight	•		
Road surfacing for traffic up to 3.5 tonnes total weight		•	
Customer parking area		•	
Fire brigade acces road		•	
Cultivation area up to 1 tonne vehicle weight	•		
Cultivation area up to 3.5 tonnes vehicle weight		•	
Sales areas with vehicle loads up to 1.5 tonnes total weight	•		
Sales areas with occasional vehicle loads up to 3.5 tonnes total weight	•		
Sales areas with occasional heavy traffic		•	
Event areas with occasional heavy traffic up to 3.5 tonnes total weight	•		
Leased areas up to 3.5 tonnes vehicle weight without substructure	•		

Please understand the table as recommendations. We will be happy to advise you individually on the realisation of your project and find the right construction method for your requirements.



The TTE® system

Art. No.	Description	Dimensions	Weight	Material
TTE® Grid				
1351.4080	TTE® Multidrain ^{PLUS}	80 x 40 x 6.2 cm 1 Stk. = 0.32 m ²	8.7 kg	100% recycled post-consumer plastics
TTE® directGREEN - comes with the turf				
1353.4800	TTE® Multidrain ^{PLUS} pre-greened	80 x 40 x 6.2 cm 1 Stk. = 0.32 m ²	20 - 24 kg	100% recycled post-consumer plastics
TTE® directPAVE - pre-filled with paving stones				
1355.4822	TTE® Multidrain ^{PLUS} prefilled with TTE® Paver stone grey	80 x 40 x 6.2 cm 1 Stk. = 0.32 m ²	28 kg	100% recycled post-consumer plastics



TTE® Pavers

TTE® paving stones are available in six different colours. Our tip: the anthracite-mix colour mix gives you a particularly lively look. And: It is also particularly resistant to lime efflorescence.

DRAINAGE WITH TTE®

With TTE®, special drainage facilities as a part of your exhibition grounds belong to the past.

The water seeps into the ground and thus contributes to the formation of new groundwater.

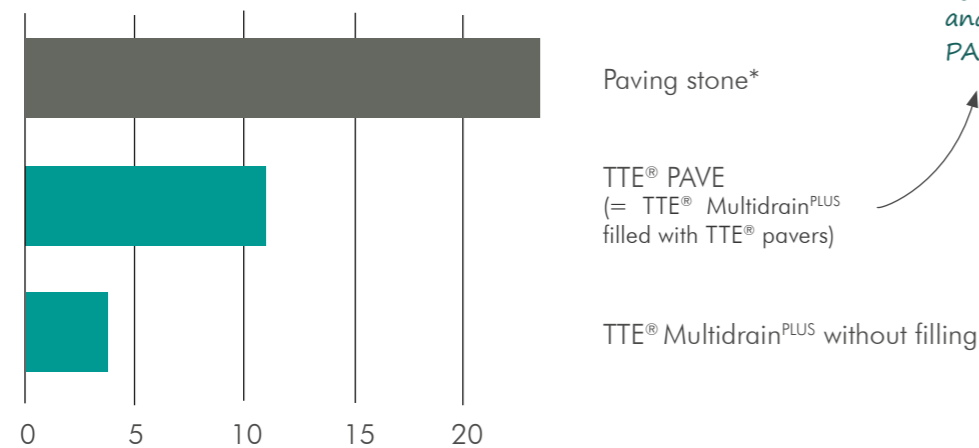


SUSTAINABILITY WITH TTE®

Focus on tomorrow

- TTE® is made from 100% recycled post-consumer plastics.
- Since September 2021, TTE® has been produced in a CO₂ compensated manner thanks to the support of certified climate protection projects.
- In the sense of a closed material cycle, TTE® can be recycled after its service life; new plates are made from old ones.
- Due to its reduced substructure, soil life and its important functions are protected and preserved. Particulates, CO₂ and pollutants caused by traffic are reduced.
- The seepage of rainwater contributes to the formation of new groundwater and thus secures our most important basis of life.

Minimal emissions with TTE®



For comparison: the production of a classic paving stone produces around 24 kg of CO₂e emissions per m² and only 11 kg for TTE® PAVE. This is less than half.

* Arithmetic mean calculated from the average EPDs of several 8 cm high paving stones

What 1000 m² of TTE® mean to our climate:

TTE® consists of 100% recycled post-consumer plastics from household waste.

The contents of 13,590 rubbish bags are recycled for a 1000 m² TTE® project.

This avoids 64,010 kg of CO₂ equivalents compared to waste incineration.

The avoided amount of CO₂ corresponds to a car ride of 281,982 km. That's almost 7 times around the earth.



There's much more on the subject of sustainability at huebner-lee.de/en/horticulture-sustainability

A SMALL SELECTION OF OUR CUSTOMERS



KÜHNE Grün erleben

> 3300 m² TTE® GREEN and TTE® directPAVE for parking spaces and exhibition areas



Baumschulen Haid

Flexi Tray, Pot Holders
Multikett plates
> 700 m² TTE® as cultivation area



Garten-Land Wohlhüter

> 2800 m² TTE® GREEN and TTE® PAVE for parking spaces



Grandiflora

Flexi Tray, Pot Holders
Multikett plates
> 4500 running metre CC Trolley Tracks



Escaro

> 1380 running metre CC- Trolley Tracks for logistics paths



You can find further references under huebner-lee.de/en/horticultural-referenceprojects

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Dirk Hübner

Director

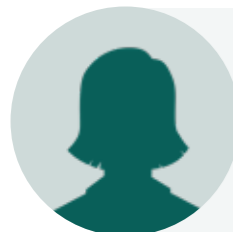
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Thank you.



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