



# hanit Products

## Garden design, reimagined

[www.hanit.eco](http://www.hanit.eco)



More  
durable  
than wood,  
lighter than  
concrete

## Benefits at a glance

### A smart solution for people and the environment

#### Weatherproof and maintenance-free

In contrast to conventional materials, hanit remains break-proof and splinter-free, even after many years of outdoor use, as moisture, UV rays and frost cannot harm this tough material. And even moisture rising up out of the earth has no long-term impact on the stability of hanit recycled products, so, regular maintenance and servicing is finally a thing of the past.

#### Environment-friendly & non-toxic

hanit is free of toxins and harmful substances in accordance with DIN EN 71-3 (European Standard for Toy Safety). Laboratory tests also confirm the 100% food conformity of hanit. hanit is produced without impregnation, relieves pressure on landfills and sustainably protects the environment due to its 100% recycled plastic content.

#### Easy to work with: drilling, sawing, screwing, nailing

hanit is easy to work with and use. So on-site adjustments are no problem. Its low weight means it is lighter than stone or concrete and can therefore be better transported, lifted and positioned in the shoring. hanit can be sawn, milled, drilled or planed with conventional tools if required and is reminiscent of working with wood.

Our raw material – hanit pellets, made from perishable packaging materials



We leave trees in the forest!



hanit is used to make a wide range of around 2,000 products. We are happy to send you additional themed brochures with even more interesting products.

# hanit Garden products

## A good investment with long-term benefits

Products made of hanit reach their full potential in the garden, where they demonstrate that it is possible for a material to be good for the environment while also being robust and durable. Because hanit strikes this balance – it is a stable, weatherproof, recycled material and it is increasing in popularity with gardening enthusiasts thanks to these special properties. An environmentally friendly choice for outdoor green areas that will maintain its value over time, hanit has a wide range of practical uses, offers maximum utility and consistently high quality combined with an appealing look and design.

We source most of the raw materials used to produce hanit from disposable packaging, which is recycled and reprocessed instead of landing in a tip, being incinerated or otherwise polluting the environment.

In addition to certified ecofriendliness – several hanit products have been awarded the Blue Angel label – hanit is focused on high stability. Our products are diverse, can be used in so many different ways and are easy to work with: hanit can be processed similarly to wood with standard tools.

Professional and amateur gardeners alike appreciate hanit for its low maintenance costs and simple, practical installation. Even transport and delivery costs are lower than comparable alternative materials due to hanit's low weight.

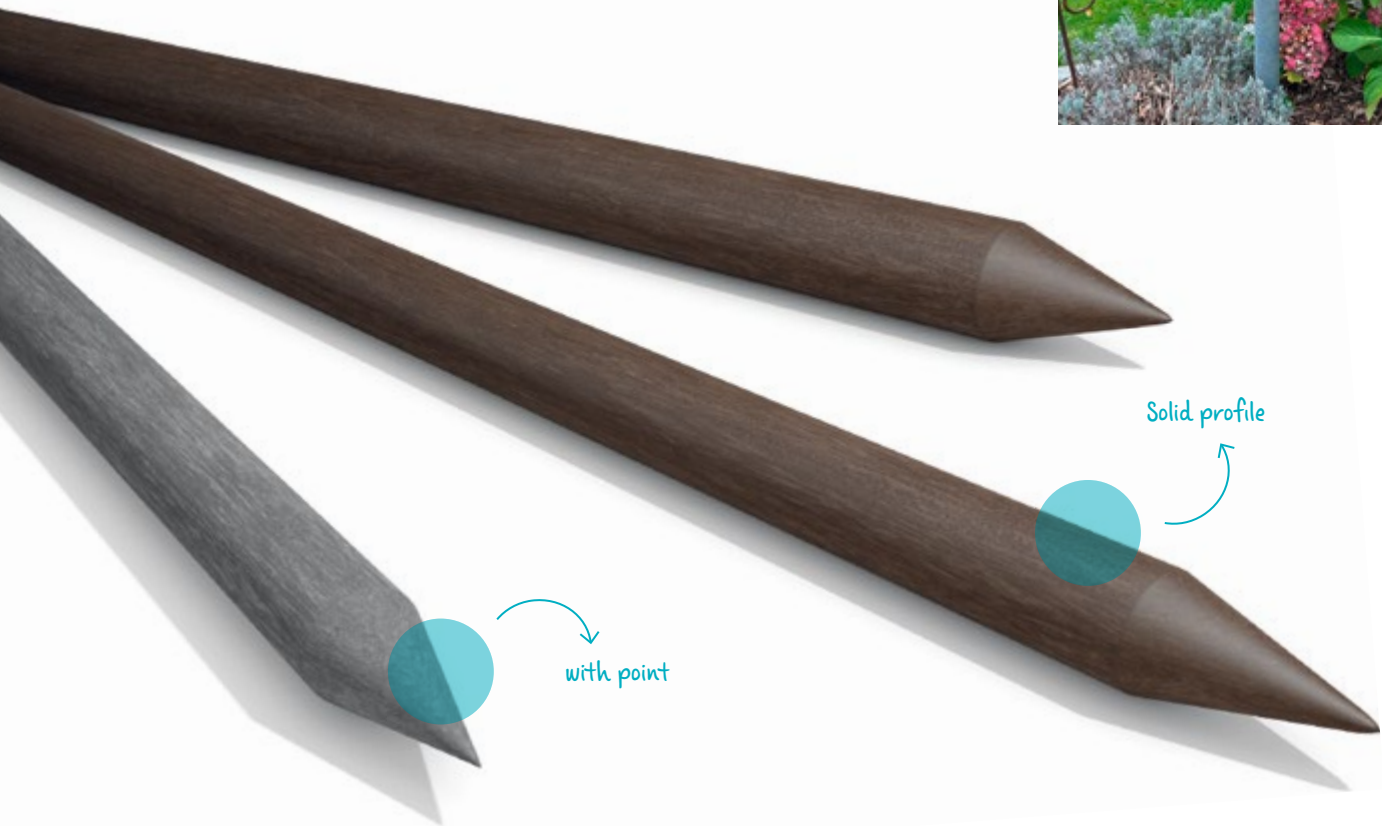
To summarise: hanit Garden products provide sustainable solutions that also meet a wide range of requirements for outdoor use. Offering great value for money, our products are ideal for beautiful landscaping at an affordable price.



# Post with point

Reliable for many years

Whether round or square posts, hanit is the right choice when it comes to ensuring stability by design and for the future. Whether as a garden post, as a support for planting or when erecting a fence, our round posts with point are as easy to work with as wood, they are easy to install, unbreakable, weather-resistant, extremely durable and do not rot even, in direct contact with moist soil. They come without risk of injury from splinters or harmful waterproofing agents.



## Round post with point

- Diameter from 4.5 to 10 cm
- Lengths: 85 to 280 cm depending on the model
- With a point to make it easier to install in the ground
- No waterproofing required, so they are completely free of pollutants
- Does not rot or splinter
- Optionally available with additional steel reinforcement for Ø 8 cm

Available in the following colours:



grey

brown

## Square post with point



- Dimensions from 7 × 7 cm to 9 × 9 cm
- Lengths: 100 to 290 cm depending on the model
- Perfect post for securing boards
- Having a point means it can be set easily and without concrete
- Stable and no sharp edges



Available in the following colours:



grey



brown

## Cross profile with point



- Profile size: 7 × 7 cm
- Lengths: from 150 to 200 cm
- Can be processed like wood



Available in the following colour:



grey



## Building and construction

More durable than wood, lighter than concrete

There's always something to do in the garden. New ideas need to be realised, old construction sites need to be cleared. hanit products are fortunately versatile and flexible.

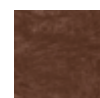
There are no limits to your creativity and your requirements. We offer a wide range of profiles that can be replaced quickly and will last for decades. Our palisades are ideal for edging areas such as flower beds, paths, sandpits or ponds. They withstand all weathers, do not rot and do not splinter. They do not require any harmful impregnation, are water-neutral and maintenance-free. They are easy to work with and do not require heavy equipment.



### Ogee palisades

- Lengths: 60 to 200 cm, depending on the model
- Diameter: from 11 to 20 cm
- Full or hollow profile depending on length
- No rotting
- No splinters

Available in the following colours:



grey

brown

## Round palisades



- Lengths: 60 to 280 cm, depending on the model
- Diameter: from 10 to 20 cm
- Full or hollow profile depending on length
- Stable and secure

Available in the following colours depending on the model:



grey



brown

## Rectangular palisades



Design elements in different shapes and colours



- Lengths: 60 to 150 cm, depending on the model
- Profile dimensions: 12 × 16 cm, 16 × 24 cm
- Many advantages compared to wood and concrete
- Water-neutral and rot-proof
- Easy to process

Available in the following colours depending on the model:



grey



brown



black



Especially durable

# Why our products are sustainable with and without ecolabels

## Information about the Blue Angel ecolabel

hanit combines the production and development of practical and beautiful products with 100% recycling of used plastics. This means that everyone who uses our products is making a positive contribution to managing limited resources and is also helping the environment. As a visible sign of our positive approach to the environment and conserving resources, a lot of our products have the Blue Angel ecolabel, though not all of them. Read on to find out why they are still sustainable without it.

The Blue Angel has been the ecolabel of the German Federal Government since 1978. The ecolabel is awarded to products and services that are “more environmentally friendly than comparable conventional products and services”.

What specifically does it mean to be environmentally friendly?  
If you want to put the Blue Angel ecolabel on a product, it has to:

- „save resources in production“
- „be made from sustainably produced raw materials“
- „be exceptionally long-lasting“
- „be easily recycled“

Products made from hanit are stand-out examples that meet all these criteria. Even the basic material made by HAHN Kunststoffe and developed in-house is a sustainably produced raw material that sets

ecological standards. Instead of depleting fossil resources, hanit is based on the recycling principle. So it is no surprise that lots of our products have been authorised to use the Blue Angel ecolabel since 2005.

But some of our products do not have the ecolabel, and there is a simple explanation for that. Some of our products have particularly high requirements in terms of stability and load capacity, so they need e.g. reinforcement. As steel parts for reinforcement are produced conventionally, then we buy them, such additional components are not Blue Angel-compliant and therefore the product as a whole is not either.



### Awarded since 2005

The Blue Angel ecolabel has been awarded to products that are exceptionally environmentally friendly since 1978.

[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)



For you as a customer, this means that even hanit products that do not carry the Blue Angel label due to individual components do not have to hide when it comes to environmental friendliness. The high proportion of recycled pellets from hanit guarantees that resources and the environment are conserved. You always receive a product that prioritises sustainability – because responsibility starts with us!

Low weight compared to concrete



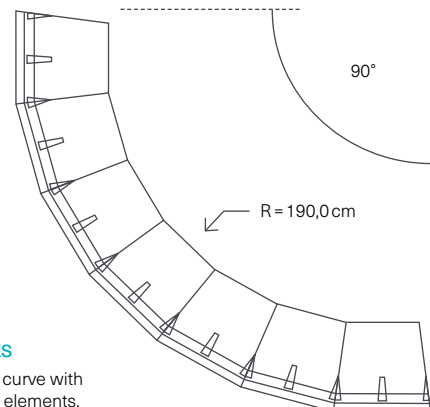
## L-stones and L-stone corners

Versatile and easy to install



L-stones made of hanit are real all-rounders and a practical alternative when it comes to supporting or securing a feature in your garden. The stones with angle are suitable for supporting and stabilising embankments, flower beds, property boundaries, driveways, steps and terraces. Thanks to their low weight, the L-stones made of hanit come with a lot of advantages when it comes to transport and installation, compared to stones made of concrete.

The L-stone corners made of hanit are the perfect complement to our straight L-stones. They can be used easily for clean finishes, as well as to create corners when stabilising slopes or building walls and driveways.



### Tips & tricks

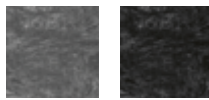
You can build a curve with seven standard elements.

## L-stone



- Dimensions, (W × L): 49 × 49 cm, height from 55 to 105 cm
- You can build a curve with seven standard elements
- Low weight; easy to transport and install

Available in the following colours:



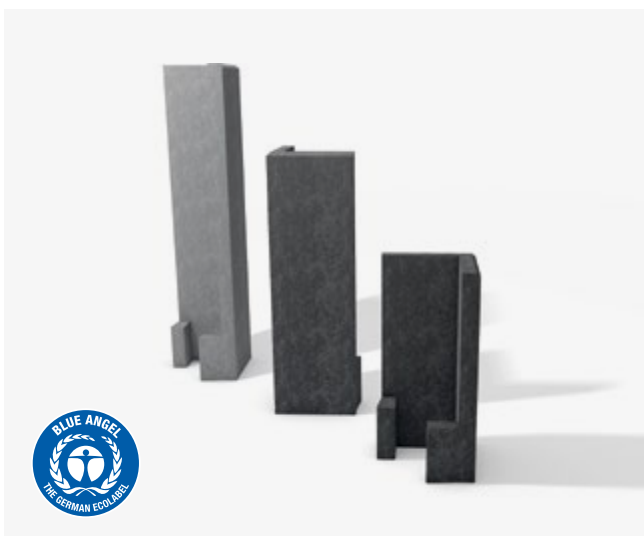
grey black



So versatile!

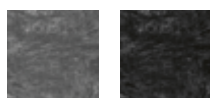


## L-stone corner



- Dimensions, (W × L): 25 × 25 cm, height from 55 to 105 cm
- Easy to assemble
- Clean edges and transitions
- Can be used as a quick way to change direction

Available in following colours:



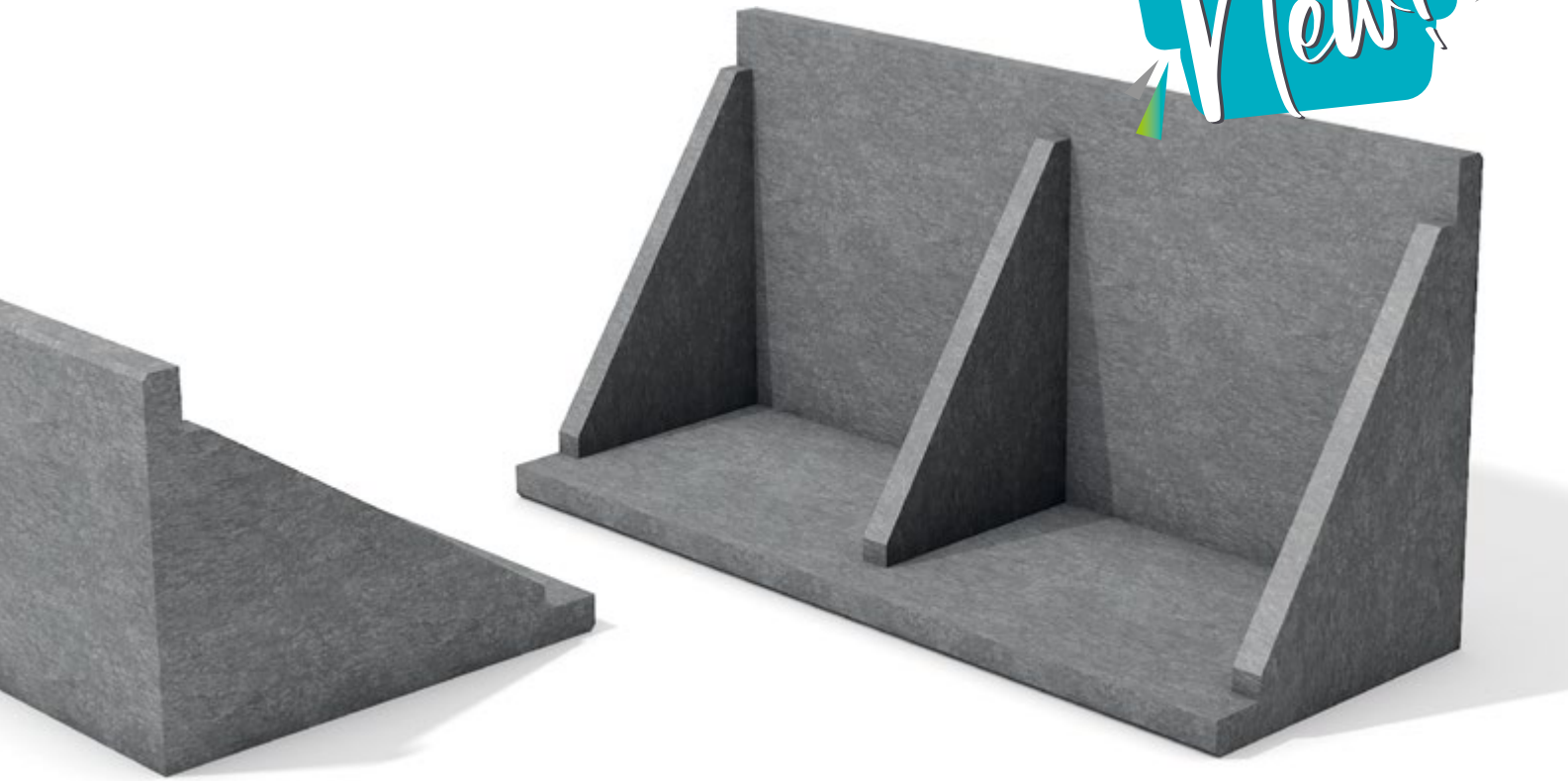
grey black

### Product info

To install flush, we recommend screwing multiple L-stones together with recycled boards (3 cm × 10 cm) and stainless steel threaded wood screws (6 mm × 60 mm) on the inside.



hanit idea!



## L-Stone green roof

- Dimensions: width: 80 cm
- Modular installation at a height of 30 or 40 cm
- Beveled edge
- Ideal for use on roof surfaces due to low weight
- Can be worked in a similar way to wood

Available in the following colour:



grey



Bed edgings made of hanit integrate harmoniously into any garden design. And they withstand wind and weather without rotting. A long-lasting, environmentally friendly choice for your garden.

## Garden edging



- Dimensions: 0.7 × 14 cm, length: 1,800 cm
- Subtle way to structure surfaces
- Concrete-free installation using optional square posts
- Separate areas of vegetation quickly and cost-effectively

Available in the following colours:



black



grey

### Product info

To install our hanit garden edging, we recommend our 4 × 4 × 45 cm or 60 cm square posts. Approx. 24 posts (about every 75 cm) are required per roll.

Strong to use,  
gentle on nature

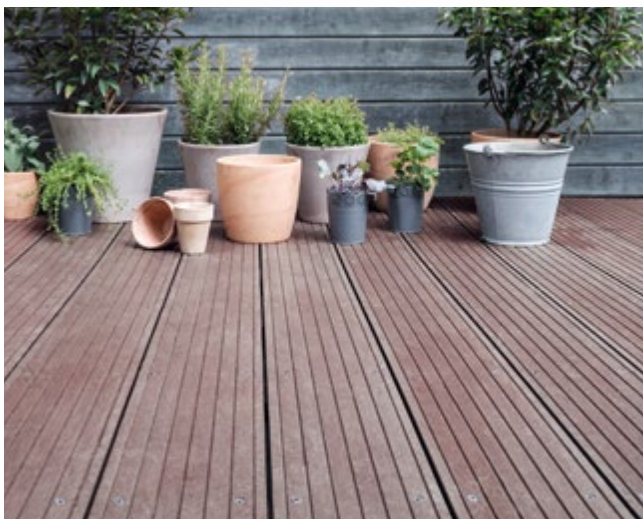


# Designing and securing flooring

All-rounder in many different areas

From slip-resistant and barefoot-friendly decking to heavy-duty ground grids that seal the ground no more than necessary, our flooring made of hanit is tried and tested for a firm footing and high load-bearing capacity.

Barefoot-friendly & robust



## Decking

- Dimensions: 19.5 × 200 or 300 cm, thickness: 2.8 cm
- Maintenance-free, weather-resistant, splinter-free
- High stability thanks to solid profile
- Resistant to algae, fungi and mould
- High speed of installation thanks to large profile width

Available in the following colours:



brown

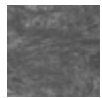
black

## Board profile



- Dimensions from 2 × 6 cm to 6 × 12 cm
- Available in lengths up to 300 cm, depending on the version
- No rotting – not even when in direct contact with the ground
- No capillary effect

Available in the following colours:



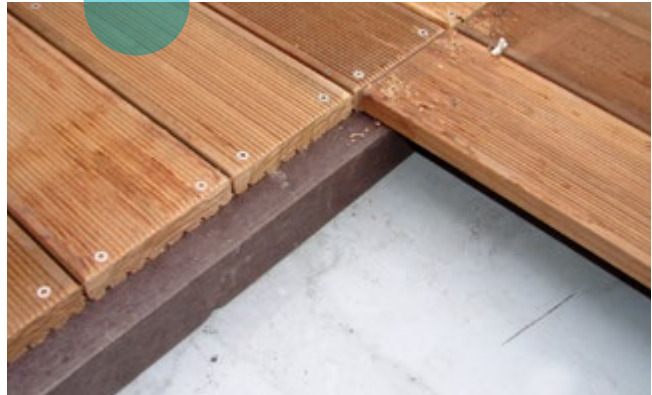
grey



brown



hanit – perfect advantages of the product can also be combined with wood, e.g. as a rot-proof substructure for wooden decking



## Square profiles



- Dimensions from 4 × 4 cm to 9 × 9 cm
- Lengths of 200 cm and 300 cm
- Water-resistant and splinter-free
- Ideal material as substructure for a greenhouse or garden shed
- Can be worked in the same way as wood



Available in the following colours:



grey



brown

## Paddock slab



- Dimensions: 50 × 40 cm, thickness: 4 cm
- Quick installation due to light weight
- Suitable for load class SLW 60 in accordance with DIN 1072
- Requirement per m<sup>2</sup>: approx. 5 slabs
- Sealed surface: approx. 58%
- Filling volume: approx. 0.03 m<sup>3</sup> per m<sup>2</sup>



Available in the following colour:



black



**Before After!**

Please follow our recommended method of installation when laying. You can find it at [www.hanit.de](http://www.hanit.de) for the product.



Available in the following colour:



grey

## INB Paddock slab



- Dimensions: 50 × 50 cm, thickness: 5.3 cm
- Ø Hole diameter: 5 cm
- Ground fastening without a substructure
- Suitable for load class SLW 60 according to DIN 1072
- Requirement per m<sup>2</sup>: approx. four tiles
- Sealed area approx. 70%
- Filling volume: approx. 0.03 m<sup>3</sup> per m<sup>2</sup>



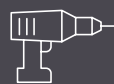
## Tool selection

### hanit is easy to work with



#### Sawing & Cutting

Using fast-running band and circular saws with slightly side-set teeth, preferably made of hard metal, an optimum cutting pattern is achieved. To avoid smearing the plastic, speedy chip removal is recommended. Length reductions can also be made using a chainsaw. A loss of accuracy must also be taken into account.



#### Drilling

Twist drills with an angle of twist of 20° to 30° and a point angle of 110° to 120° can almost always be used. Relaxation strokes should occasionally be used, especially with larger drilling depths, to avoid high frictional heat.



#### Planing

Electric planers are also suitable for use on plastics. The surface depends to a large extent on the rate of feed, cutting speed, clearance and rake angle and the condition of the blades.



#### Milling

Here, the chip cross-section should be as large as possible to keep the heat from machining relatively low. The cutting depth and rate of feed should be large whereas the cutting speed should be low. To increase the tool life, we recommend using milling cutters with hard metal indexable inserts.



#### Deburring

Angle grinders are not suitable for cutting work because of the high rotational speed. An angle grinder can, however, be used on plastic parts that have burrs or edges after machining.

## Processing tips

### Here's the best way to do it

hanit products can be processed using conventional wood and metalworking tools and machines if required. Due to the properties of the material, however, some special features need to be observed.



#### Nailing

hanit products can be nailed conventionally as well as with nailing tools. However, due to the compact surface, penetrating the profiles is more difficult than with wood. Please bear this in mind when fixing.



#### Support spacing

In contrast to wood or metal products, plastic is less rigid and more flexible. For support spacing in jetty, fence and terrace construction, these special material properties must be observed accordingly.



#### Hammering

If the profiles are smashed, we recommend using a pile driver or edge protector to avoid damage to the product.



#### Length changes

Boards, sleepers and square profiles must not be press-fitted. The profiles may vary in length by +/- 1.5% due to temperature. An expansion gap must therefore be maintained during installation.



#### Documents

Static verifications, installation recommendations and assembly instructions are available for many products and applications. You can find more information at [www.hanit.de](http://www.hanit.de) in the download section or directly from the relevant product.



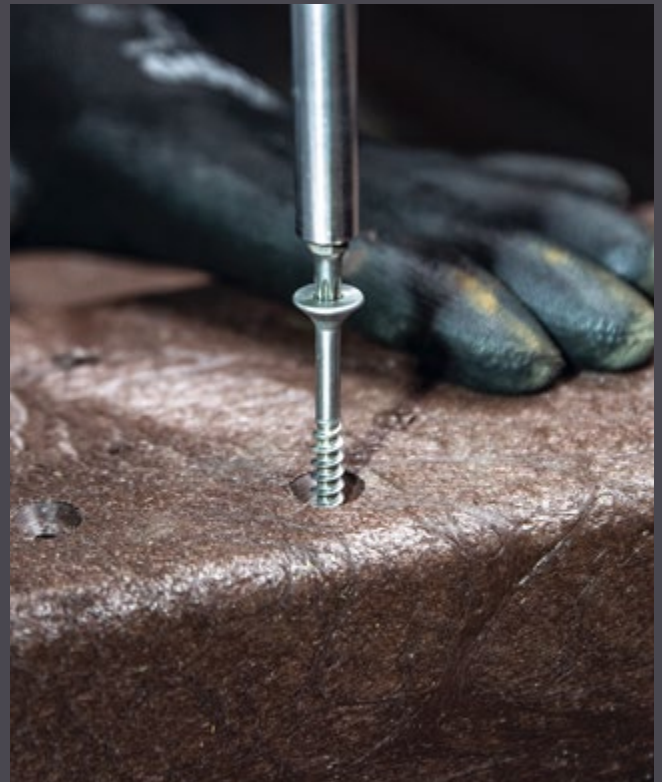
#### Screwing

If recycled profiles are to be screwed, the profile to be fastened must be pre-drilled (e.g. boards, footpath planks, square profiles). The drill hole must be bigger than the screw, elongated holes are recommended in order to take the temperature-related expansion behaviour of the material into consideration.



#### Alignment

Solar radiation affects profile alignment and may, for instance, cause fence posts to lean.



Sealed surface  
47%



## Heavy duty ground grid



- Dimensions: 60 × 40 cm, thickness: 8 cm
- Simple installation due to connecting system
- Each slab only weighs 9 kg
- Requirement per m<sup>2</sup>: approx. 4.17 slabs
- Sealed surface: approx. 47%

Available in the following colour:

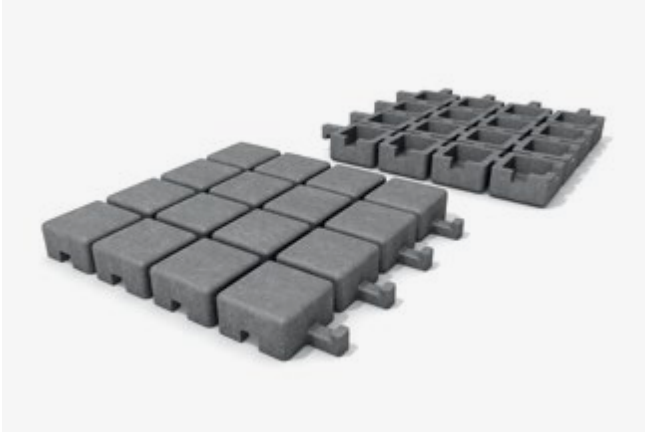


grey



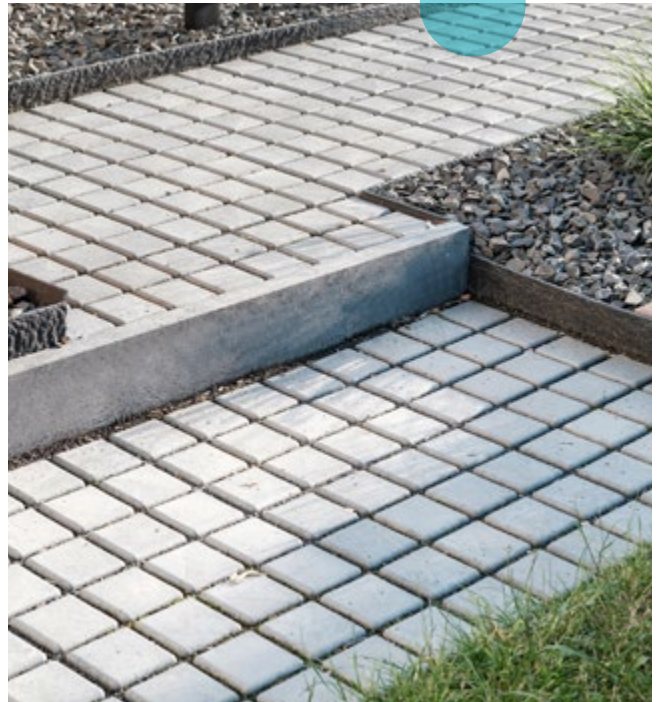
Quick to install, permanently load-bearing. You can use hanit ground reinforcements to create paths and parking spaces in no time. Our thoughtful solutions stand out for ease of handling – without any significant strain on people or machinery.

## Paving stone

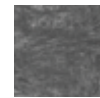


- Dimensions: 50 × 50 × 6 cm
- High laying capacity and low weight
- Approx. 4 elements required per m<sup>2</sup>, sealed surface approx. 85%
- Suitable for traffic loads of up to SLW 60 according to DIN 1072
- Strong connection with hook and eye system
- Hollow cavity for optimum material use and high stability

Easy to customise



Available in the following colour:



grey

## Hanpave



Available in the following colour:



black

Highly resilient  
with low sealed area



- Dimensions: 33.3 × 33.3 × 4 cm
- Our all-purpose element for combating moisture
- Lightweight and easy to lay
- High load-bearing capacity: 250 tons per m<sup>2</sup>; product weighs only 0.5 kg
- Sealed area less than 30%
- Flexible marking elements for, for example, marking parking spaces are available as an optional extra

## Terra raised bed



- Dimensions (W × L × H): 90 × 190 × 63/83 cm
- Does not decompose, unlike wood
- Splinter-free, rot-proof and without waterproofing agents
- Reinforcing ribs on the inside
- Consists of just seven parts (construction kit without base)



Available in the following colours:



grey



brown



## Modular composter



- Dimensions (W × L × H): 100 × 100 × 90 cm
- Capacity: approx. 650 litres
- Rot-proof despite decomposition processes
- Weather-resistant, maintenance-free
- Supplied as a construction kit



Simple assembly thanks to the plug-in system



Available in the following colour:



brown

# Outdoor furniture made from hanit

Personal, open and inviting

Who says that beautiful and practical garden furniture cannot also be made from recycled plastic? Our tables, benches and chairs made of hanit are extremely comfortable and invite you to linger for a while. They are extremely durable, weatherproof and maintenance-free and make a lovely friendly image of how to do something for the environment.



Our outdoor  
furniture chic,  
practical &  
comfortable

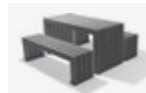
## Calero series



- Dimensions of table (W × H × D): 150 × 75 × 68 cm, dimensions of bench (W × H × D): 150 × 45 × 38 cm
- Long-lasting and rot-proof
- Optional extras: Ground anchor



Available in the following colours:



grey



brown



black



black / grey



black / brown

## Calero bar



- Dimensions of standing table (W × H × D): 150 × 110 × 67 cm, dimensions of bar stool (W × H × D): 50 × 80 × 38 cm
- Modern cubic shape
- Weight of the furniture is high, which prevents theft
- Optional extras: Ground anchor



Available in the following colour:



grey

# Be part of the solution

## Actively combating the issue of plastic

Plastics have become indispensable in many areas. They are used in smartphones and electric cars, medical products, toys and clothing. They keep food fresh, help to protect lives and provide hygienic solutions. According to Friends of the Earth Germany (BUND), 400 million tonnes of plastic are produced worldwide each year, and the largest proportion of the plastic produce is for single-use products and packaging.

Only a fraction of the plastic ever produced has been recycled – just 9%. Currently, the recycling rate for plastic packaging worldwide is just 14%, with 40% ending up in landfill and 14% in incinerators. The remaining 32% simply stays in the environment (Source: BUND). Europe and North America also export a large proportion of their plastic waste (which was long considered to be “recycled” as a result), particularly to Asia. This means that the negative conse-

quences are shifted to countries that have no or only inadequate waste systems. It is now becoming increasingly clear that, in addition to avoiding unnecessary products, we have to prevent plastics ending up in nature or not being recycled. That is because almost half of all plastic products become waste in less than a month. And so it is not surprising that initiatives for a zero waste policy are growing everywhere around the world in cities and communities, which show how plastic waste can be avoided, reduced or recycled.

We see ourselves as part of the solution to the problem, because we process thrown-away mixed plastics, collected in Germany by Dual Systems, into hanit using a special method. hanit, which is perfect for use outdoors, is therefore a 100% recycled product.



The sorted packaging arrives in bales. To produce hanit, our method also uses mixed plastics that are not recycled by conventional recycling methods.



### Selecting materials for your garden with an eye to the future

Every element in your garden should also be selected with an eye to the future – both in terms of design and in terms of quality and environmental compatibility. Alongside natural materials such as wood and stone, alternative materials from sustainable sources are now increasingly playing an important role, including our hanit, made from 100% recycled plastic.

We strongly believe that, besides avoiding plastic, it is important to support the idea of consistent recycling and to manage our resources responsibly. After all, hanit not only effectively recycles old plastic, but also avoids using new materials. Which helps to protect the climate. It means that plastics are not thoughtlessly brought into the environment, but are sensibly recycled.

Sustainability for us at hanit is not a fashionable buzzword, but an economic principle we live and breath. Since 1993. We treat materials with respect and care, because they represent real value for us and our customers. From that perspective, sustainability for us not only means recycling, but products with long lives as well. hanit products provide reliable services for many years and withstand conditions where other materials would fail long ago. hanit products are maintenance-free, do not need to be

replaced, and can be fully recycled at the end of their life cycle – for a closed and sensible material cycle.

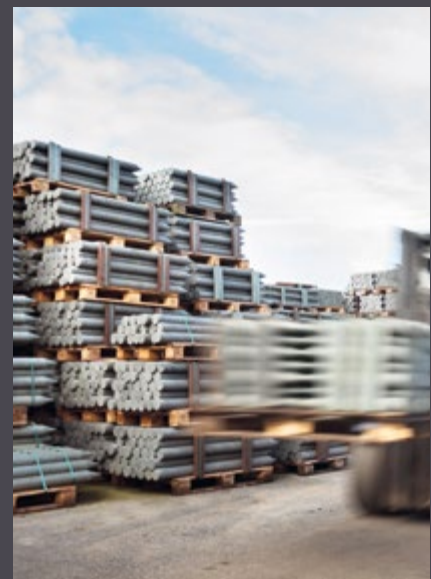
Choosing products made from hanit not only means you benefit from outstanding performance, but is also strong signal for environmental awareness. With every use, you are contributing to solving the global problem with plastic and supporting a higher rate of recycling, designing your garden with long-lasting solutions that will still retain value tomorrow.



The recyclable material is cleaned, shredded and, depending on the product and application, adjusted to a specific mix ratio. At this point, the exact composition is crucial for the material properties later on.



By heating, our recycled product is created under high pressure as grey pellets, which are then processed into specific products on special machinery.



At the end of the process, useful items with unique performance characteristics have been created from the collected single-use packaging, and those items can be recycled back into new hanit after they have been used.

Sit and lay comfortably on this sun lounger. It's even comfortable to share, because there's room for one more – or even the whole family. The special wave shape of the lounger offers the very highest level of comfort. It's made of our hanit recycled plastic, is weatherproof, doesn't splinter, is non-toxic and never needs to be weatherproofed or painted.



Available in the following colours:



grey / brown



grey / green



grey / blue



Ergonomic lounge shape for perfect relaxation

Quick and easy to assembly anywhere as a construction kit

## Aveto sun lounger

- Dimensions (W × H × D): 150 × 119 × 165 cm
- 21 bench planks: 150 × 8 × 4.7 cm, Premium
- No need to dismantle and store the furniture in winter
- Durable, rot-proof and stable
- Optional extras: Ground anchor

## Tivoli bench



- Dimensions (W × H × D): 200 × 78 × 66 cm
- Seat height: 45 cm, Seat depth: 35 cm
- 8 bench planks: 200 × 10 × 4.7 cm, Premium
- 5 table planks: 200 × 12 × 4.7 cm, Premium
- Optional extras: Ground anchor and armrests on request



Available in the following colours:



brown



grey / brown



grey / black



grey / green



grey / blue



grey / red

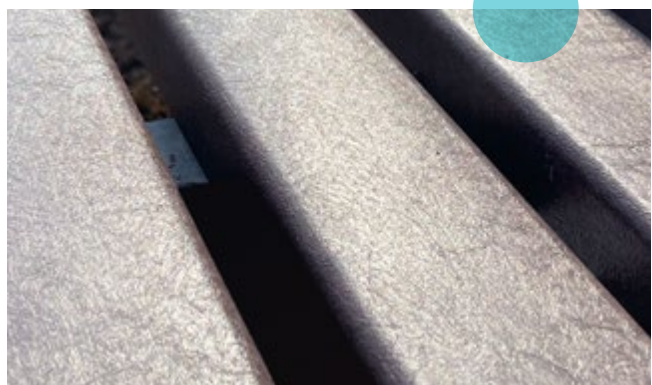
High-quality surface that does not require maintenance



## Piccadilly bench



- Dimensions (W × H × D): 150 / 200 × 82 × 65 cm
- Seat height: 45 cm, Seat depth: 41 cm
- 5 bench planks: 150 / 200 × 12 × 4.7 cm, Premium
- Inner reinforcement
- Optional extras: ground anchor and armrests



Available in the following colours depending on the model:



brown



grey / brown



black / brown



grey / black



grey / green



grey / blue

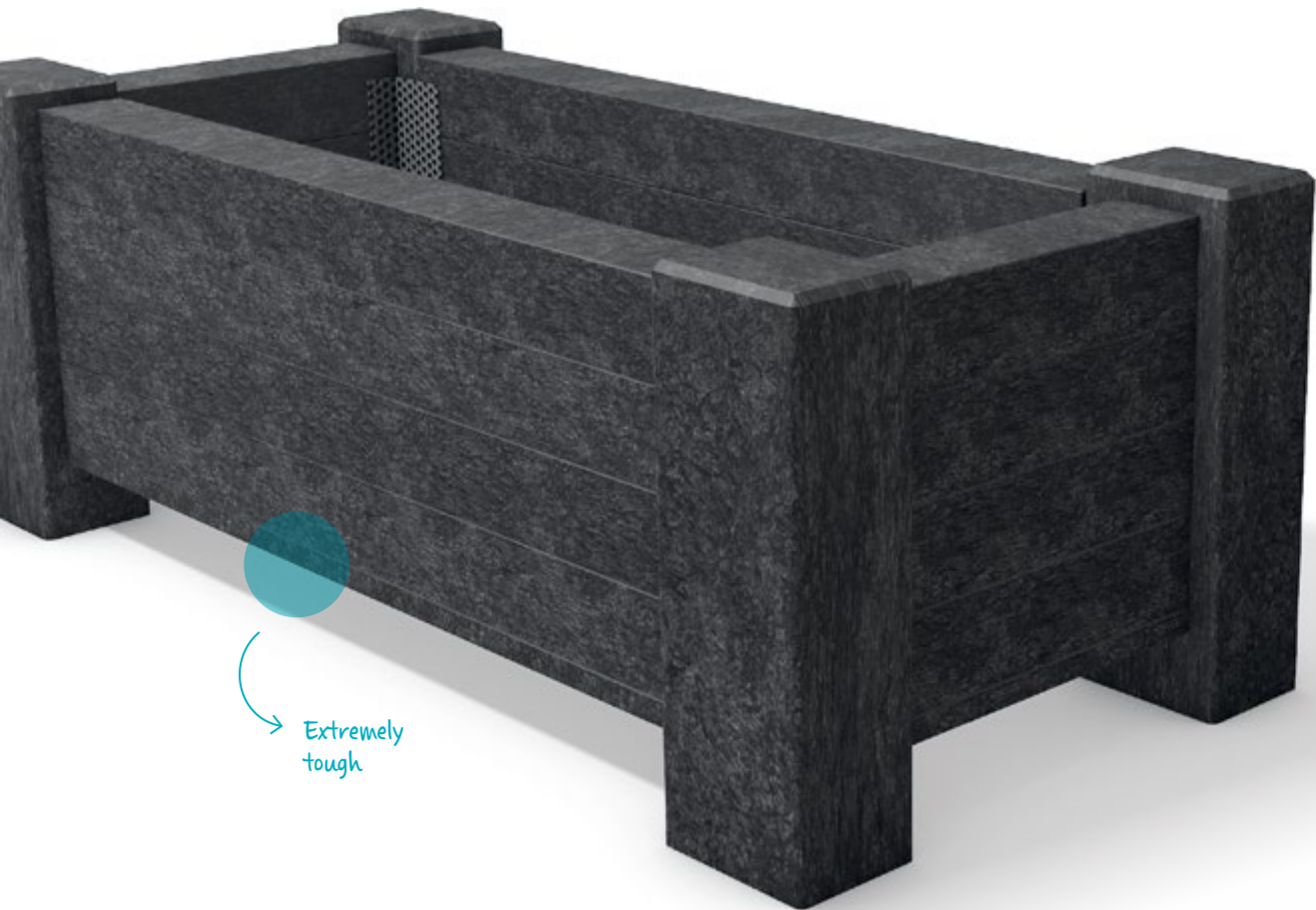


grey / red

# Garden design with hanit

## Sustainable and creative

hanit not only makes your garden greener, but more environmentally friendly too. Our recycled plastic is exceptionally long-lasting and low-maintenance, with the Blue Angel ecolabel. Our raised beds and plant boxes made of hanit provide a range of stylish ways to showcase flowers, herbs and vegetables – whether as a bee meadow, for nature-friendly garden projects or just to bring colour and life to your garden with creative planting.



### Muscari planter

- Dimensions (W × L × H): 60 × 130 × 49 cm
- Comes fully assembled
- Outdoor furniture in modern colours
- Weather-resistant and rot-proof

Available in the following colours:



grey



brown



black





## Gobi sand box



- Sizes: 120 or 240 cm square each, height: 31 cm
- Seat surface: 14 cm wide
- Easy to assemble
- Compact size makes it ideal for small spaces

Available in the following colour:

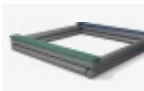


brown

No need to worry about splinters or harmful weatherproofing substances

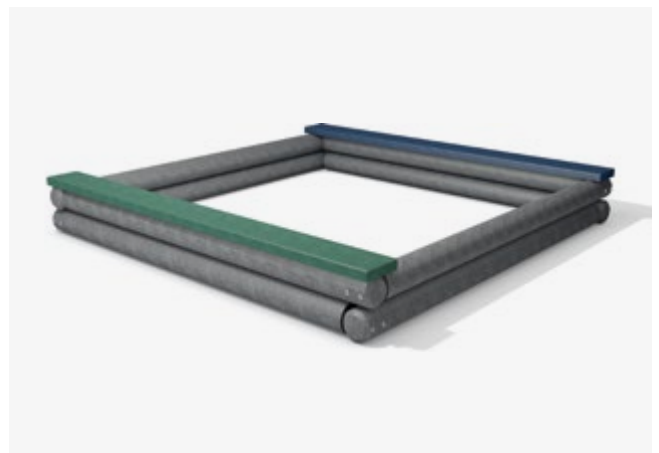


Available in the following colour:



grey / blue / green

## Dahna sand box



- Dimensions: 200 cm square each, height: 28 cm
- Seat surface: 17 cm wide
- Easy assembly (pre-installed)
- Permanently stable, even in direct contact with wet sand

## A strong performance

### The environmentally friendly material

Our environmentally friendly hanit material consists of 100% recycled plastic and is characterised by its wide range of potential applications. Products made from hanit can be used everywhere in the local community and can be installed easily without prior knowledge, are easy to transport and protect our climate by reducing the amount of new material required.

hanit does not require any chemical additives or impregnating. The material is free of harmful substances, food-safe and has been awarded the Blue Angel by the German Environment Ministry. It is used perfectly in products such as palisades, park benches, boards and bollards and excels wherever other materials are at risk of rotting or other damage due to moisture, cold, ice and snow.

hanit fulfils the highest requirements for durability and is virtually maintenance-free.

In addition to being environmentally friendly and durable, it is particularly the outstanding product performance which makes the material unique: hanit combines the positive characteristics of wood, stone, plastic and concrete, and, in addition to its high utility value outdoors, it also has an outstanding value for money ratio which quickly pays for itself.



You can obtain more information  
at [www.hanit.eco](http://www.hanit.eco)

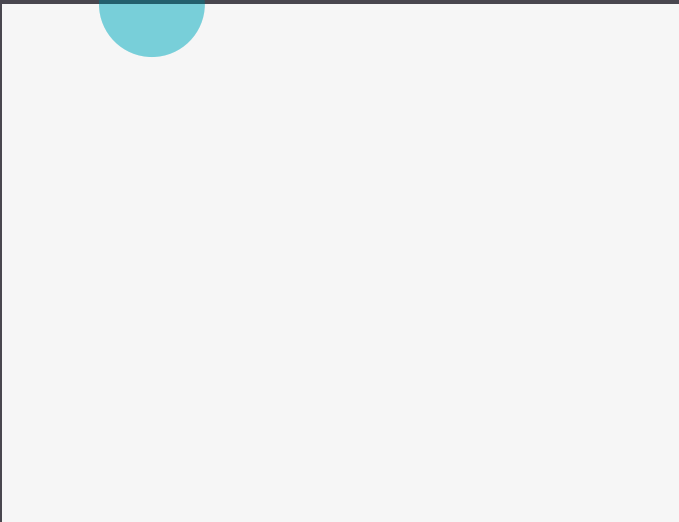


#### Also there for you on site at all times ...

We are also available for you on site at any time. Through our comprehensive network of field staff we are happy to help you put your ideas into action and answer your questions. From planning and correct installation to simple and fast project management.



A selection of our hanit products is available here!



[www.blauer-engel.de/uz30a](http://www.blauer-engel.de/uz30a)

As a certified company, HAHN Kunststoffe GmbH has been entitled to use the "Blue Angel" ecolabel since 2005.