

STABLE BOARDS • GROUND PROTECTION
MUD CONTROL • FENCING • GATES

HAHN
PLASTICS



hanit®

EQUESTRIAN RANGE

RECYCLED PLASTIC PRODUCTS MADE IN UK, GERMANY & CANADA



HAHN Equestrian Range is specifically designed for the equine industry. Our 100% recycled plastic products are rot-free, made from specially formulated hanit® and come with a 20-year warranty.

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Let's talk RUBBISH

WELCOME TO THE WORLD OF USED PLASTIC

Our raw material is used plastic. Although that sounds simple, the market for used plastic is extensive, growing and surprisingly complicated.

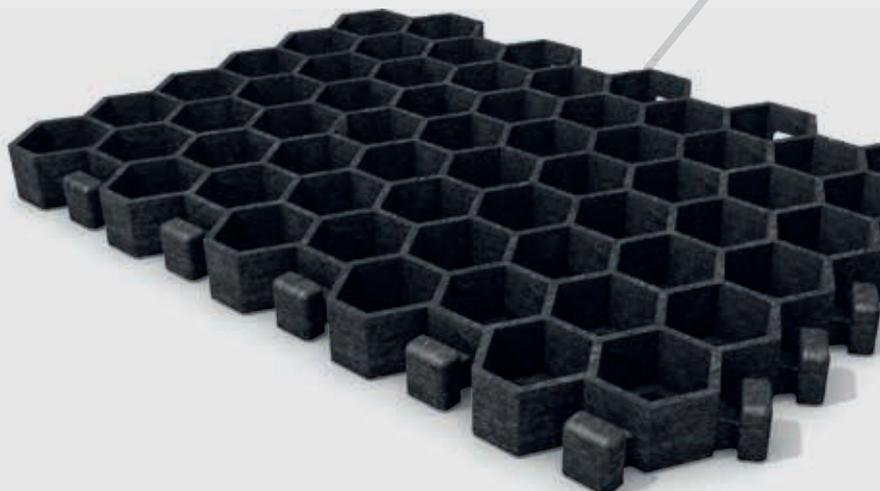
There is a huge variety of used plastic on the market and we need to choose our ingredients very carefully. **hanit®** is about quality and consistency – our reputation depends on it. To maintain these high standards we only buy from suppliers we can trust. We never compromise on quality.

To make things even more complicated, not all of our products are the same. They all have their own requirements and properties; so ingredients differ too. Our buyers have in-depth knowledge of which used plastic is needed for each of our products.

No matter what material we use or which product we're making, whether recycling or manufacturing, we keep emissions low. Our commitment to the environment will never change.

That's one of the reasons why we're the first company ever to be awarded the 'Green Angel' recycling award.

Products made of **hanit®** are very environmentally friendly. Our products do not damage or contaminate the environment



HAHN processes **56,000 tonnes** of recycled plastic every year

Compared to making products out of new plastic, HAHN saves:

- » 336,000 tonnes of CO₂
- » 1.29 million m³ of plastic in landfill
- » 174.4 million litres of oil
- » 1,164 million megajoules of electricity



13m
tonnes

13 million tonnes of plastic is dumped in the world's oceans each year.



3,114
litres

A single tonne of recycled plastic saves approximately 3,114 litres of oil.



6
tonnes

It takes approximately 6 tonnes of CO₂ to produce 1 tonne of new plastic.



Recycling creates six times more jobs than landfill.

X6

Only 12% of the energy required to convert petroleum into plastic is needed to recycle it.



THE CLEVER ALTERNATIVE TO WOOD, STEEL & CONCRETE

100% RECYCLED PLASTIC

NON-TOXIC

ROT-FREE

RESISTANT TO CHEWING

NO NEED TO STAIN, SEAL OR PAINT

SPLINTER-FREE

HAHN PLASTICS 20 YEAR WARRANTY

Introducing **hanit**[®]

HAHN has been recycling plastic since 1993. We've put all our expertise into developing **hanit**[®], our 100% recycled plastic material that out-performs wood, steel, concrete and even new plastic. It's lighter yet more robust and durable and offers an excellent price/performance ratio.

We can also formulate the recycled polyolefins that make **hanit**[®] to suit specific industries or meet certain criteria. HAHN Equestrian Range is made from especially horse-friendly **hanit**[®] that's not only rot-free, it supports and cushions the hoof and its unappealing taste discourages windsucking and crib biting.

And for the toughest jobs in the most demanding environments, there's **hanit**[®] **Ultra**. Extremely strong, durable and often mistaken for wood, **hanit**[®] **Ultra** is available in all the most commonly-used sizes and very well suited to structures like stables.

hanit[®] is made exclusively by HAHN in Germany, the UK and Canada. All raw materials, mixtures and products are processed or made on-site in more than 200,000 m² of HAHN manufacturing space.



DURABILITY

- » Weather resistant
- » Rot resistant
- » Splinter-free and low risk of injury
- » Moisture repellent
- » Doesn't absorb water or faecal matter
- » Frost and UV-resistant
- » Year round use



LIGHT-WEIGHT

- » Easy to install without heavy equipment
- » Excellent load capacity
- » Lower transport & shipping costs
- » Quick and efficient installation
- » Reduced workload



ECONOMICAL

- » Long service life (20-year warranty)
- » Resistant to oils, acids, alkalis and salt water
- » Low maintenance and service costs
- » Specially formulated from high quality recycled plastics (polyolefins)
- » Excellent price/quality performance
- » An excellent construction material, ideal for profiles and finished products



ECO-FRIENDLY

- » 100% recycled and recyclable
- » Produced without preservatives
- » Reduces the strain on landfill, is sustainable and environmentally friendly
- » Awarded the European "Blue Angel" eco-label
- » Non-polluting
- » Non-toxic (DIN 71)



SIMPLE PROCESSING

- » Easy to work with
- » Can drill, saw, screw & nail just like wood
- » Simple modifications can be made on site
- » No staining or sealing required
- » No maintenance required

FAQs

» IS RECYCLED PLASTIC MORE EXPENSIVE THAN WOOD?

Wood is cheaper to buy but needs maintenance and its lifespan is shorter than recycled plastic. Recycled plastic is virtually maintenance-free and comes with a 20 year warranty but will last well beyond that.

» DOES RECYCLED PLASTIC WARP IN THE SUN?

It can, but only if badly installed. HAHN offers lots of design and installation tips.

» DOES RECYCLED PLASTIC GET TOO HOT TO TOUCH?

Recycled plastic gets slightly warmer than wood but not as hot as concrete, sand or steel.

» IS RECYCLED PLASTIC FIREPROOF?

No. Recycled plastic has a similar ignition point to wood.

» WHAT COLOURS ARE AVAILABLE?

Brown is popular as it looks like wood. Black, grey and other colours are also available.

» DO RECYCLED PLASTIC FENCE POSTS NEED TO BE CLOSER TOGETHER?

No, **hanit**[®] boards can be reinforced to cope with spacing of up to 2.5 m if required.

» IF A HORSE CHEWS THE POST, IS IT TOXIC?

Horses don't usually chew **hanit**[®] because they don't like the taste. But even if they do, it's non-toxic.

» DOES RECYCLED PLASTIC GET SLIPPERY?

hanit[®] is often used for decking and is tested and classed as non-slip.

» IS MOULD OR ALGAE A PROBLEM FOR RECYCLED PLASTIC?

hanit[®] is non-absorbent and resistant to mould or algae.

» CAN FAECAL MATTER DAMAGE RECYCLED PLASTIC?

No. **hanit**[®] is non-absorbent so waste just washes off.



EQUESTRIAN RANGE

PRODUCTS

STABLES & LOOSE BOXES • ARENA KICK WALLS • HORSE WALKERS
 LUNGING RINGS • ROUND PENS • GROOMING AREAS
 WASH BOXES • FRONT WALLS • DIVIDING WALLS • DOOR LININGS

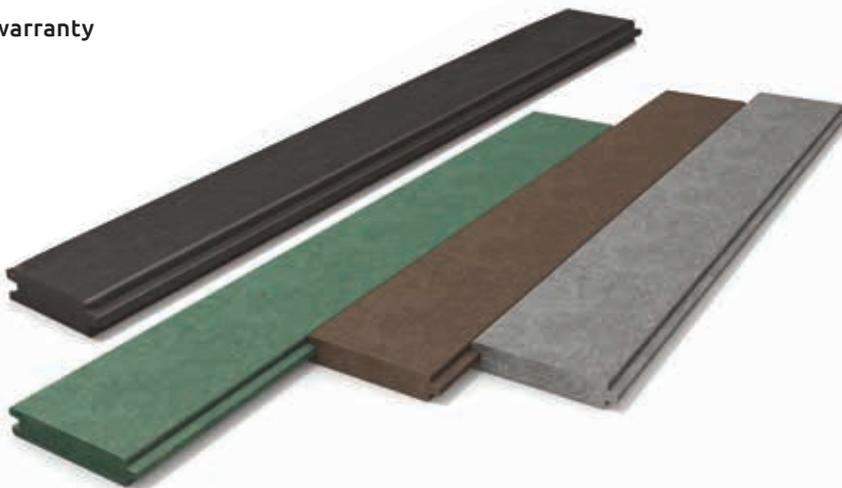
STABLE BOARDS

with tongue and groove

HAHN stable board with tongue and groove come in pre-cut lengths and are available in both **hanit®** and **hanit® Ultra**. They are splinter-free, resistant to chewing, easy to clean, non-toxic and made without any hazardous preservatives.

- » Designed for the equine industry
- » Needs no staining, sealing or painting
- » Splinter-free
- » Resistant to chewing (non-toxic)
- » Easy to clean
- » Water-resistant
- » Available to order as 96, 122 & 124.5cm
- » 20-year warranty

-  Grey
-  Brown
-  Black
-  Green



Code	Description	Section (cm)	Length (cm)	Colour	Weight (kg)	Qty/Pal
INT 035 MBR	hanit® Ultra board profile	3.4 x 14.7	260		11.0	90
INT 938 MBR	hanit® Ultra board profile	3.4 x 14.7	305		12.8	90
INT 035 BLK	hanit® Ultra board profile	3.4 x 14.7	260		11.0	90
INT 938 BLK	hanit® Ultra board profile	3.4 x 14.7	305		12.8	90
NG 28 130	Board profile	2.8 x 13	280		9.5	120
NB 28 130	Board profile	2.8 x 13	280		9.5	120
NM 28 130	Board profile	2.8 x 13	280		9.5	120
NG 38 130	Board profile	2.8 x 13	280		13.0	120
NB 38 130	Board profile	2.8 x 13	280		13.0	120
NM 38 130	Board profile	2.8 x 13	280		13.0	120

 Steel reinforced boards are also available.

100 m of board saves
7.7 tonnes
 of CO₂





**LOW
MAINTENANCE,
PRACTICAL &
FUNCTIONAL**



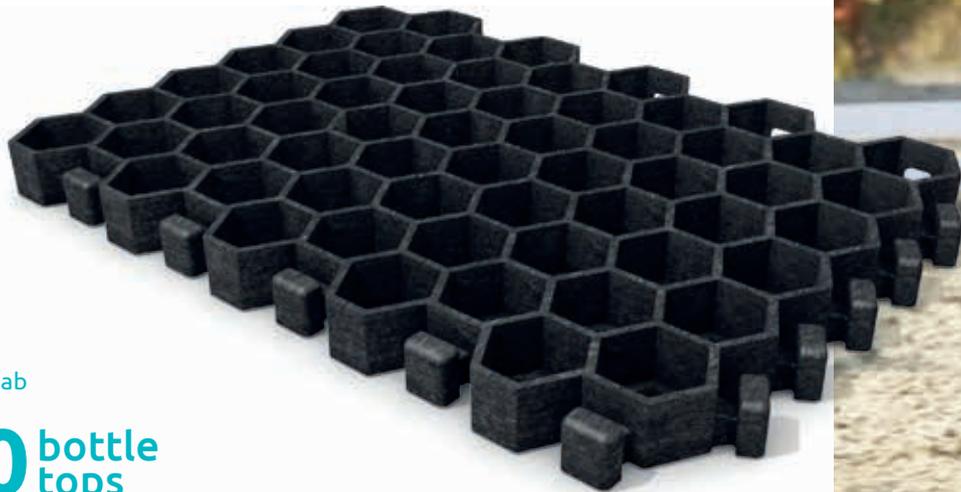
RIDING ARENAS & SCHOOLS • PADDOCKS & PASTURES • LUNGING RINGS
 FEED AREAS & WATERING PLACES • GENERAL STABLE AREAS
 MUD CONTROL • PARKING & ACCESS FOR HORSE BOXES • GATEWAYS

Paddock Slab

Paddock Slab is specifically designed and tested for horses. The cell wall is thick enough to support large breeds yet the cell aperture is small enough for foal and pony hooves. **Paddock Slab** is made of **hanit®** which is 100% recycled plastic and specially formulated to emulate a good equine surface. It cushions and supports the hoof while being strong enough for HGVs.

Paddock Slab can be used: as a stabilising layer with a sand tread surface in arenas, pens and walkers; in general access areas and horse box parking with a gravel fill; or in paddocks for mud prevention with a grass fill. Like all stabilised areas, adequate drainage is the key to successful installation.

- » Made of specially formulated hanit®
- » Non-slip and ammonia-resistant
- » Supports up to 1,000 tonnes/m²
- » Free-draining to prevent mud
- » Frost and UV-resistant
- » Quick and easy to install
- » Low maintenance
- » Strong interlocking system and generous expansion capability
- » 20-year warranty



1 m² of Paddock Slab is equivalent to

6,000 bottle tops

Code	Description	Size (cm)	Depth (cm)	Colour	Weight (kg)	Qty/Pal
PPS 05004 004	Paddock Slab	40 x 50	4	■	2.1	100

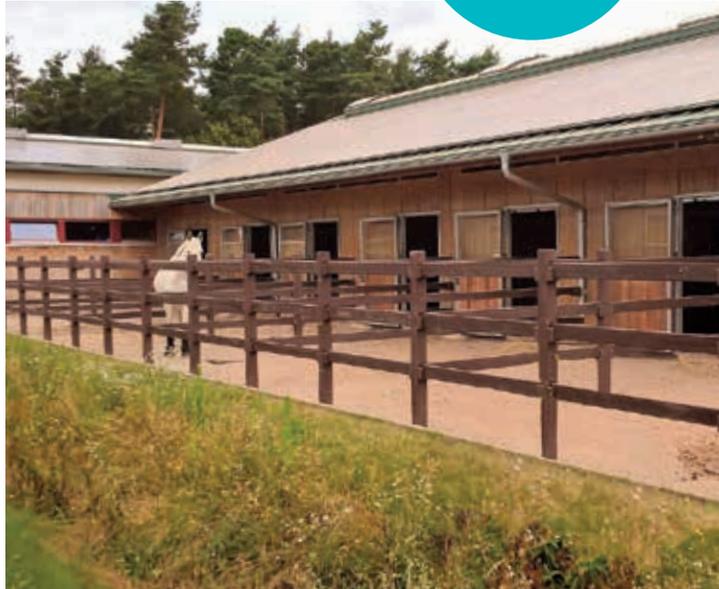
i Paddock Slab can be used with grass, gravel or sand fill or with a tread layer. When used as grass or gravel reinforcement, Paddock Slab complies with Part M (Building Regs) and the Equality Act (DDA).



**SOLID
GROUND,
YEAR AFTER
YEAR**



A technical guide is available on request.



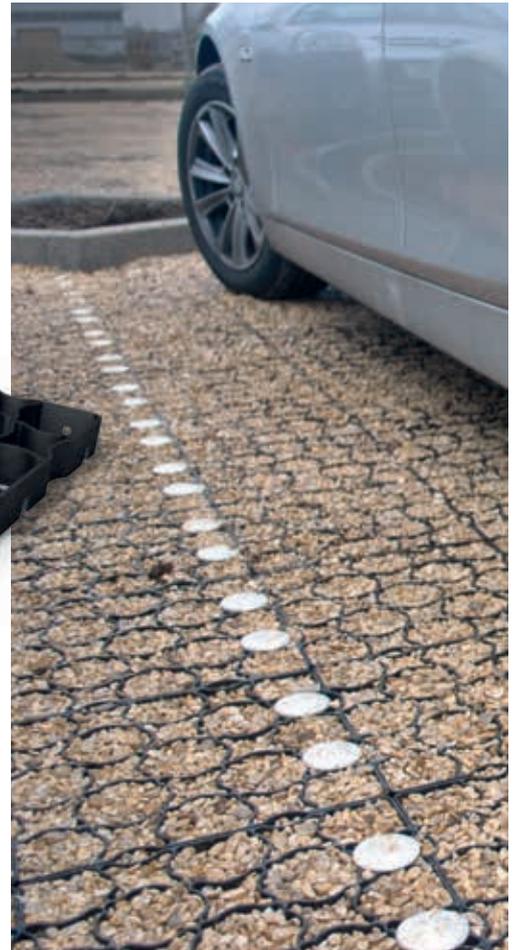
No more mud means year round use.

**CAR PARKING • AMENITY AREAS • CARAVAN AREAS
GENERAL GRASS & GRAVEL REINFORCEMENT**

HANPAVE®

Hanpave® is a grass or gravel reinforcement grid for use around stable developments and exhibition areas. It is strong enough for vehicles and heavy pedestrian use but unlike Paddock Slab, is not specifically designed for horses. Like all stabilised areas, adequate drainage is the key to successful installation.

- » Takes loads up to 600 t/m²
- » Free-draining and SuDS compliant
- » Frost and UV-resistant
- » Quick and easy to install
- » Low maintenance
- » Strong interlocking system and built in expansion capability



Code	Description	Section (cm)	Depth (cm)	Colour	Weight (kg)	Qty/Pal
INT 0 100	Hanpave®	33.3 x 33.3	4	■	0.5	504
INT 0 200	Hanpave®	33.3 x 33.3	4	■	0.5	504
INT 0 110	White parking marker			■	0.1	

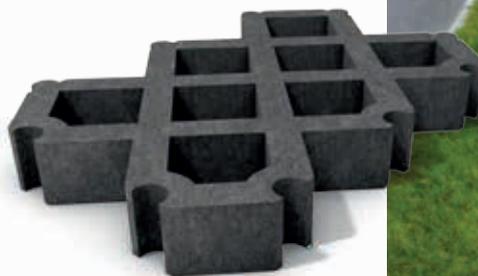
i Hanpave® complies with Part M (Building Regs) and the Equality Act (DDA).

HGV/HORSE BOX PARKING • MAIN ACCESS ROUTES

HDGG

HAHN HDGG (Heavy Duty Ground Grid) is a high-quality paving system designed for extreme loads like manoeuvring HGVs and loading areas. HDGG is extensively tested and complies with SLW60 (DIN 1072). It also allows water to drain through, eliminating the need for additional drainage.

- » Made of specially developed hanit®
- » Takes loads up to 1,896 t/m²
- » Free-draining and SuDS compliant
- » Frost and UV-resistant
- » Quick and easy to install
- » Low maintenance
- » Interlocking grids with built-in expansion capability
- » 20-year warranty



Hanpave® & HDGG technical & installation guides are available on request.

Code	Description	Size (cm)	Depth (cm)	Colour	Weight (kg)	Qty/Pal
GH 084 0600	HDGG	60 x 40	8	■	9.0	80

ARENA SURFACE EDGING • PENS & LUNGING RINGS

U-PROFILE & BEAM/SLEEPER

HAHN edging is strong enough to withstand kicks and perfect for edging loose or sand-based surfaces. The U-profile has a 13 x 12 cm hollow that can be used to hide joints between profiles and give a solid, substantial look.

- » Made of specially developed hanit®
- » Hidden jointing (U-profiles)
- » Needs no staining, sealing or painting
- » Non-toxic, no hazardous preservatives
- » Splinter-free
- » Easy to clean
- » Water resistant
- » 20-year warranty



Code	Description	Section (cm)	Length (cm)	Colour	Weight (kg)	Qty/Pal
EGH 1624 300	U-profile	16 x 24	300	■	69.2	18
EBH 1624 300	U-profile	16 x 24	300	■	69.2	18
RG 1624 280	Beam/Sleeper	16 x 24	280	■	100	20
RB 1624 280	Beam/Sleeper	16 x 24	280	■	100	20

i U-profile also available in 150 cm lengths and as a half round (Ogee).
Beam/Sleeper also in 8 x 16 cm; 8 x 23 cm; 15.5 x 21 cm and various lengths.

AREA PROTECTION • PROTECTIVE BARRIERS • SEPARATION PENS

STANDARD SHEET

HAHN Standard Sheet is the multi-functional blank slate of the equestrian range. Whether used as panelling to protect against kicks and chewing, protective barriers or other equine applications, hanit® standard sheet has almost unlimited uses.

- » Made of specially developed hanit®
- » Splinter-free
- » Easy to clean
- » Water resistant
- » Non-toxic, no hazardous preservatives
- » 20-year warranty



Code	Description	Size (cm)	Thickness (cm)	Colour	Weight (kg)	Qty/Pal
POG 100100 025	Standard sheet	100 x 100	2.5	■ ■	23.2	20
POG 105205 025	Standard sheet	105 x 205	2.5	■ ■	51	10
POG 04015 005	Standard sheet	40 x 150	5	■	27.9	40

i 5 cm thick grey sheets are also available in 40 x 175 cm & 40 x 200 cm.



PADDOCKS & PASTURES • ELECTRIC & TAPE FENCING
MESH FENCING • PENS & TURNOUT FENCING

POSTS & STAKES

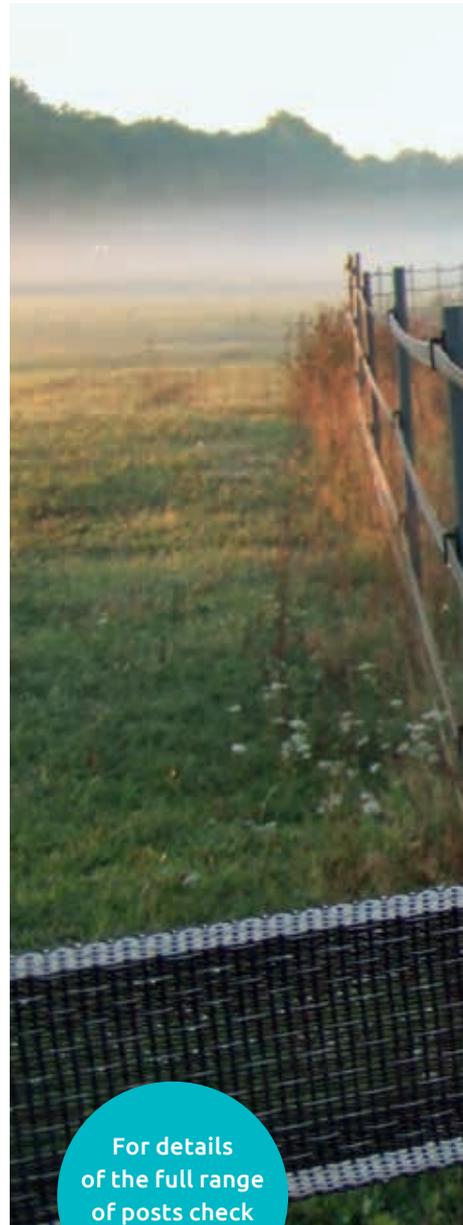
Round, square & cross profile

Whether you're building a paddock/pasture fence, equine enclosure or just need to surround a walker, HAHN round, square or cross profile fencing posts are the perfect solution. Our posts come with a point as standard and, when driven into ground which compresses the surrounding earth, don't need concreting. The golden rule of 1/3 buried and 2/3 exposed still applies. All our posts can take brackets and/or insulators for electric, tape or mesh fencing. If a stronger barrier is needed, see our pasture fencing range.

- » Made of specially developed hanit®
- » Needs no staining, sealing or painting
- » Strong, durable and weather resistant
- » Resistant to chewing
- » Non-toxic, no hazardous preservatives
- » 20-year warranty



1 km of Post & Wire fence saves
7.9
tonnes of CO₂



For details of the full range of posts check our website

Round

Diameter (cm)	Length (cm)	Colour	Weight (kg)
4.5	85–175	■ ■	1.3–2.6
6.0	150–250	■ ■	3.9–6.6
7.0	150–250	■ ■	5.4–9
8.0	100–280	■ ■	2.3–13.1
10	50–290	■ ■	3.7–21.5
12	100–280	■ ■	10.5–29.4
15	100–280	■ ■	16.4–46
Reinforced			
8.0	200–290	■ ■	10.6–15.3
8.0 + Bevel	200–290	■ ■	10.6–15.3

Square

Diameter (cm)	Length (cm)	Colour	Weight (kg)
5 x 5	125–150	■ ■	2.8–3.4
7 x 7	100–280	■ ■	4.5–12.7
9 x 9	100–280	■ ■	7.5–21.2
hanit® Ultra			
10 x 10	150 or 175	■ ■	15.5–18.1
Reinforced			
9 x 9	200–290	■ ■	15.8–23.9
Cross profile			
7 x 7	150–240	■ ■	2.8–4.5

i Posts are suitable for driving into ground and can be cut to length. Alternative lengths are available in standard hanit® material.



**ALL
WEATHER
WORRY-FREE
FENCING**



OUTDOOR ARENAS • PADDOCKS & PASTURES
 ROUND PENS • WALKERS • SEPARATION AREAS

PASTURE & PADDOCK FENCING

A good-looking, well built fence can enhance any pasture, paddock or stable development. HAHN fencing is attractive, incredibly strong, durable and easy to build. Simply install the posts, screw the crossbars into the built-in recesses and it's done! Even corners are easy with our right-angle connector. Not only are the posts and boards made of the hard-wearing hanit®, they're also reinforced with zinc-coated steel and never need painting, staining or sealing. This is one tough fencing system!

- » Made of specially developed hanit®
- » Needs no staining, sealing or painting
- » Strong, durable and weather resistant
- » Resistant to chewing
- » Non-toxic, no hazardous preservatives
- » 20-year warranty



100 m of 3 bar paddock fence is equivalent to over
1.5 million
 bottle tops

Code	Description	Size (cm)	Length (cm)	Colour	Weight (kg)
KPBA 10112 303-LA	Post (for 3 bar)	11 x 10	230	■	24.6
KPBA 10112 305	Post (for 5 bar)	11 x 10	230	■	26.3
BBE 4212 250	Crossbar	4.2 x 12	250	■	14.2
KEB 101 111	Right-angle connector	10 x 11	13	■	0.8

i Both 3 and 5 bar fencing are designed for a top rail height of 153 cm. Posts should be centred 260 cm apart for the 250 cm crossbar. Posts are suitable for driving into ground with a small pilot hole.



ACCESS TO PADDOCKS & PASTURES PENS & TURNOUT ACCESS

GATES

To complement our pasture and paddock fencing system, we have a range of extremely hard-wearing gates. Made from an especially strong formulation of **hanit**[®], our gates are also reinforced with zinc-coated steel. They even come with our tried and tested locking mechanism to make sure that none of your horses escape.

- » Made of specially developed hanit[®]
- » Needs no staining, sealing or painting
- » Strong, durable and weather resistant
- » Resistant to chewing
- » Non-toxic, no hazardous preservatives
- » 20-year warranty

A 3 bar double gate
saves just over

1 tonnes
of CO₂



Code	Description	W x D x H (cm)	Clear opening width (cm)	Top rail height (cm)	Colour	Weight (kg)
KTB 002	Double field gate - 3 bar	384 x 12 x 129	360	150	■	187
KTB 001	Double field gate - 5 bar	384 x 12 x 129	360	150	■	214
KTB 004	Single access gate - 3 bar	190 x 12 x 129	178	150	■	88
KTB 006	Single access gate - 3 bar	115 x 12 x 129	103	150	■	78
KTB 003	Single access gate - 5 bar	190 x 12 x 129	178	150	■	100
KTB 005	Single access gate - 5 bar	115 x 12 x 129	103	150	■	86
KTB 101111	Connector Gatepost	10 x 11			■	0.8

i Gates come complete with dedicated 250 cm long steel reinforced posts. The top bar of the gate 150 cm should be adjacent to the top bar of the fence 153 cm.







EQUESTRIAN RANGE

APPLICATIONS



ARENAS & SCHOOLS

including riding schools and jumping areas

Whether outside or indoors, your arena is a major investment. Perhaps the most important element for any arena is what the horses will be working on. If outdoors, good drainage is vital to prevent mud and puddles. If indoors, good hydration is needed for a moist but not wet surface.

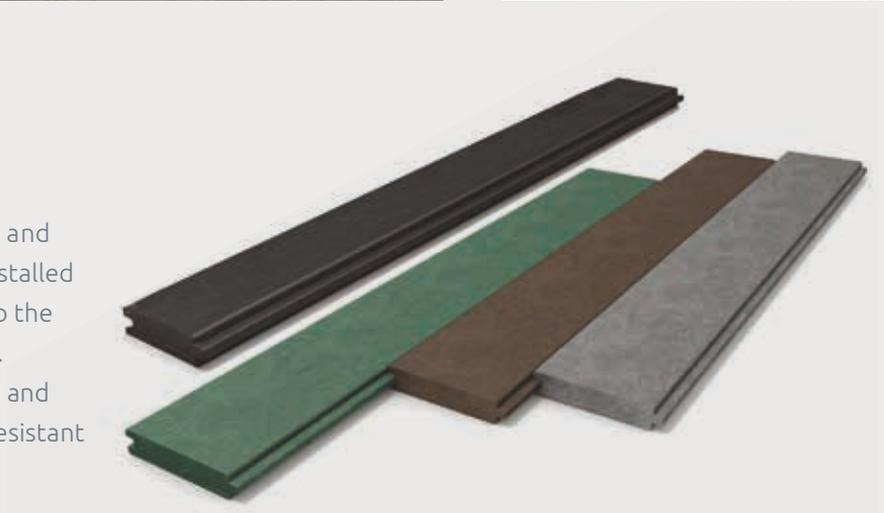
HAHN **Paddock Slab** is designed to be installed below the upper tread layer of sand or artificial surfacing. The interlocking slabs provide an ideal supporting layer that is strong enough for a variety of uses but flexible enough to reduce pressure on joints and tendons.



Stable Boards

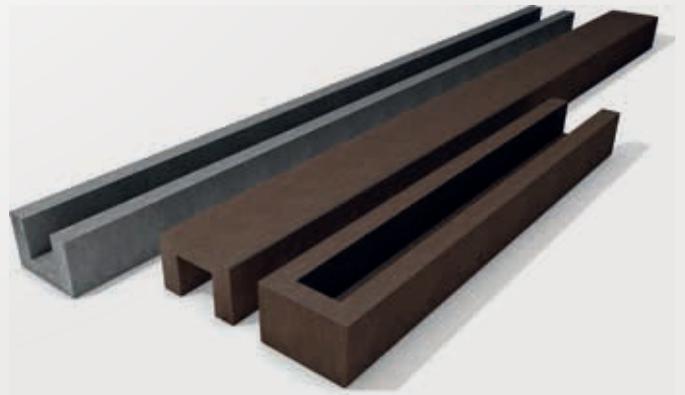
with tongue and groove

Kickboards around indoor arenas retain surfacing and improve safety for both rider and horse. When installed at an angle, they allow hooves to tread right up to the edge but leave enough space for the rider's knee. HAHN kick-absorbing **Stable Boards** with tongue and groove won't crack or splinter, are frost and UV-resistant and need no treatment or maintenance.





LOVE THE
GROUND THEY
WALK ON

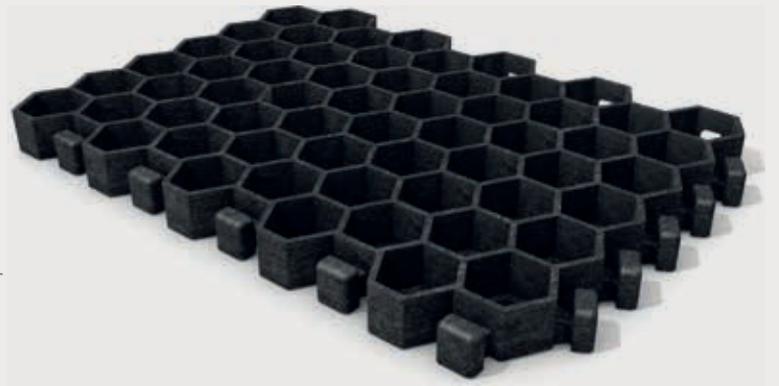


U-profile & beam/sleeper

HAHN U-profiles and sleepers are a perfect edging solution for any riding area. In squared or half round profiles, they retain sand and surfacing and create a finished, defined look. Unlike concrete, they cushion the impact of kicking hooves and minimise injuries. Unlike wood, they'll never splinter, need treatment or maintenance.

Paddock Slab

Extreme loading strength (1,000 tonnes per m²), cushioning, flexibility, small cell aperture and an interlocking system make **Paddock Slab** the ideal support for areas with a tread layer of sand or artificial surfacing. Paddock Slab is also designed for grassed riding areas as it prevents compaction of grass roots but still hydrates the ground below.



STABLES

including wash down areas, horse walkers
& round pens

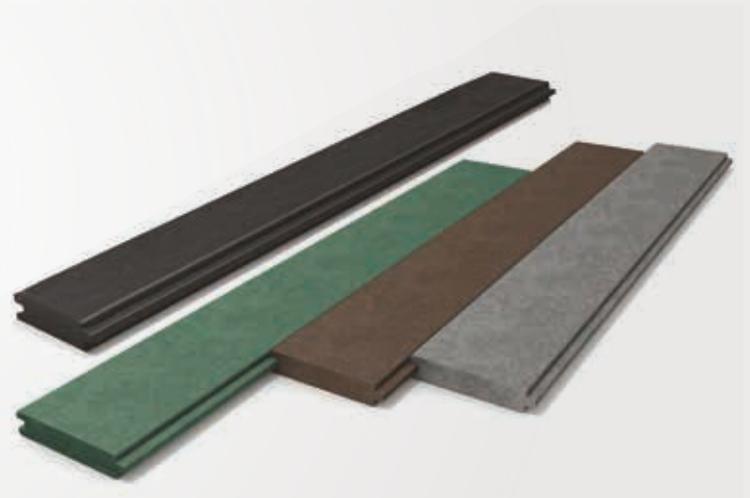
Whether flooring, partitions, windows or walls: creating good stables involves a lot of decisions.

HAHN **Equestrian Range** offers stable products and solutions that need no staining or maintenance, are strong and durable, splinter-free, frost and UV-resistant and come with a 20-year warranty. The range is made of HAHN's unique and specially formulated material **hanit**®. That means it's made from 100% recycled plastic, is environmentally friendly and creates significantly less CO₂ than products made from new plastic.





**BUILT
TO
LAST**



Stable Boards

with tongue and groove

HAHN **Stable Boards** with tongue and groove are an attractive, low-maintenance solution for stable enclosures and walkers. They fit together securely, are strong and durable and can be supplied cut to length. They are also non-absorbent, easy to clean and great for wash down areas and grooming stalls.

Paddock Slab

HAHN **Paddock Slab** is ideal for tread areas in horse walkers and round pens. The extreme loading strength, small cell aperture and interlocking system gives solid but flexible ground reinforcement. **Paddock Slab** is free-draining and can be filled with sharp sand or gravel, or overlaid with a tread layer. We do not recommend using **Paddock Slab** with a grass finish in walkers or round pens as the concentrated use wears the grass away.

Fencing, gates & arenas

For pens and paddocks, HAHN **fencing and gates** need no treatment or painting, require little maintenance, look good whatever the weather and outlast wood by a country mile. They're easy to install, splinter-free and horses tend not to chew or nibble them. Fences are available in two or three bar versions with matching single or double gates. And like all our products, they're made from 100% recycled plastic and carry a 20-year warranty.

MUD MANAGEMENT

in paddocks, turnout areas & gate entrances

Mud, mud, mud! Wheelbarrows get stuck, boots get sucked off your feet and paddock entrances and feeding areas become instant quagmires. Apart from making horse care a daily struggle, mud is also a health risk. It's a breeding ground for bacteria and can lead to injuries and infections.

HAHN **Paddock Slab** together with good drainage can eliminate mud for good. It can even eliminate the need for sacrifice areas.



Paddock Slab

for outside stables

Used with a free-draining base layer, HAHN **Paddock Slab** can make muddy paddocks a thing of the past. **Paddock Slab** lets rainwater drain through to provide a secure surface – even in the wettest weather it prevents muddy and water-logged areas so they can be used all year round.

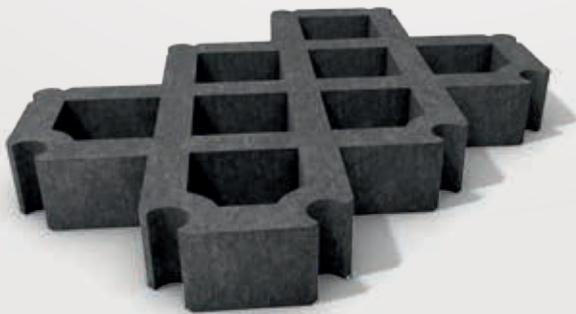
HORSE BOX AREAS

for loading and unloading

Equestrian venues have to cope with a variety of vehicles. Large horse boxes for example, are a challenge even for surfaces that can bear up to 26 tonne HGVs. As most events take place annually over several days, asphalt parking with underground drainage is an unsightly overkill.

HAWN offer two solutions. **HDGG** (Heavy Duty Ground Grid), installed on a porous base and filled with grass or gravel, is strong enough for constant HGV use.

Paddock Slab is ideal for occasional HGV use and gives a greater area of grass that blends into the surroundings when not in use.



Heavy Duty Ground Grid

for regular HGV use

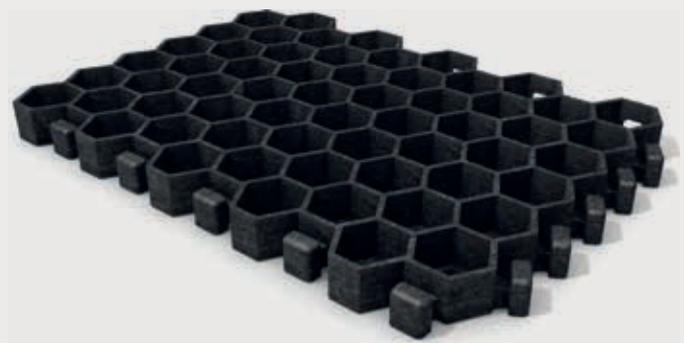
Horse boxes and transporters are getting bigger and bigger and this puts greater demands on temporary parking areas. HAWN **Heavy Duty Ground Grid (HDGG)** is the answer. When installed on a porous base, **HDGG** lets water drain through without expensive underground drainage. What's more, HDGG is tried, tested and tough enough to bear almost 1,900 tonnes per m².



Paddock Slab

for regular but occasional HGV use

Stables also have to cope with large horse transporters but not on a regular basis like event venues. HAWN **Paddock Slab** can bear 1,000 tonnes per m² but also gives a greater grass/gravel surface area for a more discreet appearance when not in use.



CAR PARKING

for visitor overflow areas

Venues and stables often need parking space or even overflow parking for popular events. If fields or other grassed areas are used, they can quickly become muddy and problematic for visitors. Even a gravel layer won't help as it just squashes down into the soft soil. HAHN **Hanpave**[®] solves this problem. Used with a grass or gravel finish, the area remains useable even in the wettest weather.

Hanpave[®]

Hanpave[®] is a cost effective solution for car parking areas, overflow parking, helipads and anything else that needs discreet yet stable ground reinforcement. It's easy to install, can be finished with a grass or gravel fill and needs no additional drainage when installed on a free-draining base.



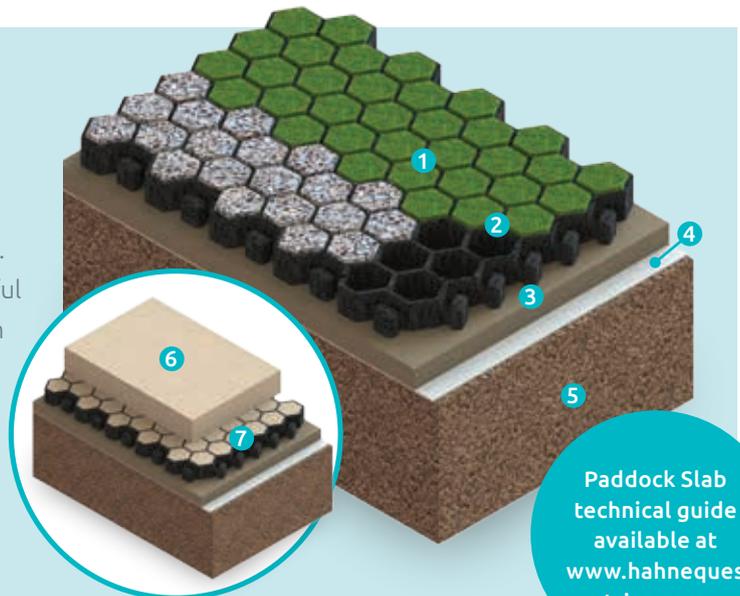
INSTALLATION OVERVIEW

Paddock Slab

HAHN **Paddock Slab** is an effective mud-control system that stabilises riding area sub-structures and protects soil from being churned up by hooves. Specially designed for horses, **Paddock Slab** is useful in so many equine environments, we gave it its own technical guide! See www.hahnequestrian.com.

Used with or without a structured base, **Paddock Slab** prevents mud build-up and maintains a solid riding surface all year round. This makes it perfect for busy areas like entrances, gates, paddocks or feeding areas.

Paddock Slab is also strong enough to handle vehicle traffic – even loading and unloading HGV horse boxes. When not in use, areas paved with **Paddock Slab** look neat and tidy thanks to the way the slab cells retain the gravel infill.



Paddock Slab technical guide available at www.hahnequestrian.com

- 1 Gravel or grass (seeded) finish
- 2 40 mm Paddock Slab with 4:1 topsoil/sand fill
- 3 30 mm compacted sharp sand/soil
- 4 Non-woven 100 g needle-punched geotextile
- 5 100–300 mm free-draining sub-base
- 6 75–100 mm tread layer (sand, rubber, fleece etc.)
- 7 40 mm Paddock Slab filled with sharp sand

Hanpave®

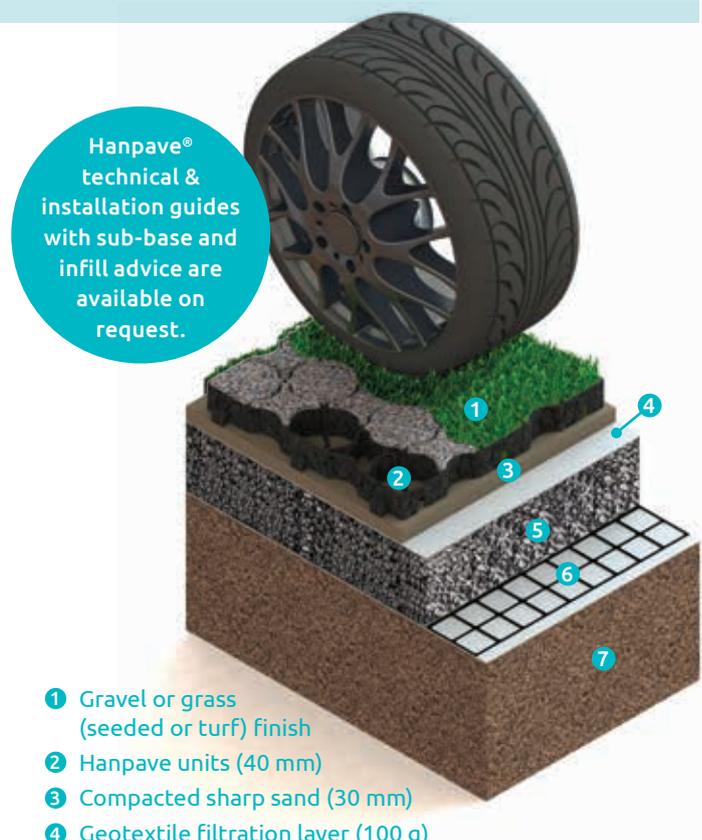
Hanpave® ground reinforcement grids are easy to install and specially designed for car parking and overflow areas.

Prepare the subgrade and install a free-draining sub-base such as a DoT type 3 to suit the anticipated load (typically 100–150 mm). Overlay with a 100 g non-woven needle-punched geotextile (to prevent migration to the base).

Install a 30 mm layer of compacted sharp sand and screed. The surface is now ready for **Hanpave®**.

Hanpave® comes pre-assembled in 1 m² sections so large areas can be covered quickly. For best results, lay the first row of grids down on a straight edge and click them together. Be careful not to push together too tightly – the interlocking system is designed to give a little movement between grids so that there is no need for expansion joints.

Fill the grid cells with 5–15 mm angular gravel or topsoil (for seeding) and the job is done! **Hanpave®** is virtually maintenance free and provides a reliable free-draining surface that's compliant with Part M (Building Regs) and Equality Act (DDA).



Hanpave® technical & installation guides with sub-base and infill advice are available on request.

- 1 Gravel or grass (seeded or turf) finish
- 2 Hanpave units (40 mm)
- 3 Compacted sharp sand (30 mm)
- 4 Geotextile filtration layer (100 g)
- 5 Free-draining sub-base (DoT type 3)
- 6 Geotextile separation layer (100 g)
- 7 Sub soil

Heavy Duty Ground Grid

If you need ground reinforcement that's free-draining and able to handle HGVs, you need HAHN **Heavy Duty Ground Grid (HDGG)**. It's tough, durable and strong enough to handle HGV traffic all day long.

Prepare the subgrade, install a free-draining sub-base and overlay with a 100 g non-woven needle-punched geotextile (to prevent migration of the bedding layer). Lay 20 mm of compacted sharp grit and screed. The surface is now ready for **HDGG**.

For best results, lay the first grids along a straight edge or kerb, leaving a 25 mm expansion gap to be filled later with stone. Work across the site in rows, fitting the tongue and groove system together but not too tightly.

Fill the grid cells with 5–15 mm angular gravel or topsoil (for seeding) and the job is done! **HDGG** is virtually maintenance free and provides a reliable free-draining surface that's compliant with Part M (Building Regs) and Equality Act (DDA).

Stable boards

Stable use

Stable boards with tongue and groove come in a variety of colours and sizes. Brown **hanit® Ultra board** with an enhanced wood grain finish is used extensively by specialist fabricators for panelling in stables and American barns. Whether you need off-the-shelf sizes or pre-cut boards to fit your specific designs, contact our technical team for a specialist in your area.

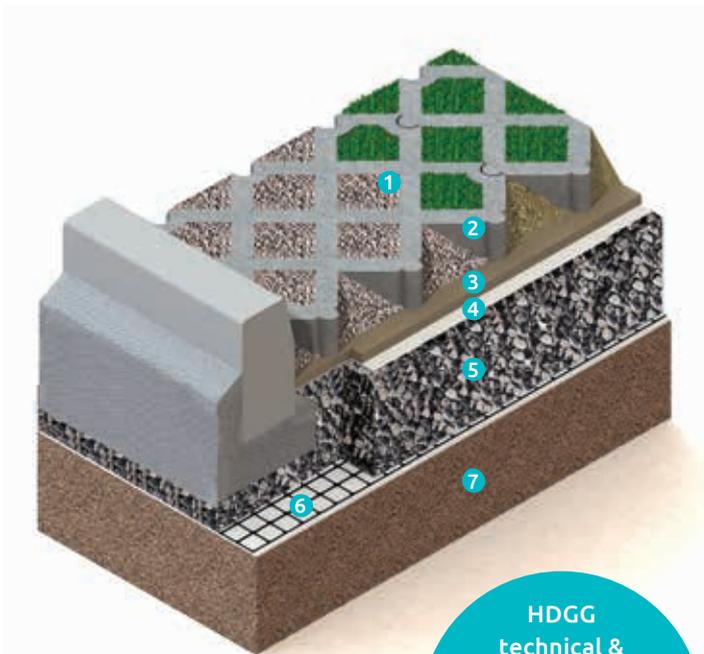


Kickboards for arenas

Whether indoors or out, arena kickboards need to be strong, durable and above all, safe for horse and rider. HAHN boards with tongue and groove work perfectly—either with purpose-built steel frames or as hard-wearing weatherproof protection for wooden structures. Kickboards are usually around 1.5 m tall and tilted backwards by approx. 15 degrees to give knee room for riders. Kickboards made from **hanit®** are waterproof, impervious to contaminants, need no treatment and keep surfacing where it should be.



Boards can be used vertically or horizontally in steel/ aluminium frames or mounted on supports.



- 1 Grass seeded or gravel finish
- 2 HDGG units (80 mm)
- 3 Grit bedding (20 mm)
- 4 Geotextile layer (100 g)
- 5 Free-draining sub-base (DoT Type 3)
- 6 Geotextile separation layer (100 g)
- 7 Sub soil

HDGG technical & installation guides with sub-base and infill advice are available on request.

U-Profile & beam/sleeper

Edging for arenas or riding areas should keep all that expensive surfacing in the right place. They should also be strong enough to withstand kicking horses and be good-looking. HAHN **Ogee** is an attractive half-round palisade that's solid, secure, splinter-free and totally weatherproof.

HAHN **U-profiles** provide a more discreet look thanks to the hidden fixing system. The flush, unbroken appearance is achieved by fixing mounts to a solid base, the **U-profiles** are then laid on top and secured from the sides. We also make expansion and corner elements to keep tricky sections tidy.



Posts

With so many different ways to build a fence and so many HAHN fencing products on offer, we can't cover every configuration here. Instead, here are some guidelines and typical recommendations.

Post spacing:

- » Post & rail fence: 1.8 m centres
- » Post & wire fence: 3–3.6 m centres
- » Electric wire fence: 6–15 m centres (check with electric fence supplier)

Post height:

- » Ponies up to 14 hands – 1 m top wire height (1.5 m post)
- » Horses up to 17 hands – 1.4 m top wire height (2.25 m post)



General guidance:

- » Posts should be 1/3 in the ground (min. 50 cm).
- » For post layouts for Horserail® wire reinforced rails, contact HAHN for advice.
- » Posts installed by mechanical post drivers are more secure than posts installed by hand.
- » If concreting in, there's no need for a gravel bed to prevent rot. HAHN posts are 100% rot-free!
- » Contact HAHN for friendly advice on stapling or screwing into posts.

INSTALLATION OVERVIEW

Pasture/paddock fences

HAHN pasture and paddock fences come as 3 or 5 bar versions. The installation method is the same for both:

Step 1: Install the steel-reinforced posts at 2.5 m centres, either driven into the ground (with a small pilot hole) or concreted in to leave 1.6 m to the top of the post.

Step 2: Install the steel-reinforced crossbars into the post recesses. For the 5-bar fence, longer crossbars are provided for the first and third recesses from the ground.

Step 3: Drill the crossbars and posts with a 13 mm bit to receive the provided carriage bolts and finish with washers and closed nuts. The closed nuts should be mounted on the outer side so that the bolt heads are on the inside of the enclosure.

Step 4: To create a 90 degree angle, screw a standard connector using the pre-drilled holes onto the paddock post and secure with two 6 x 70 mm screws. Cut the crossbar to length if required and secure as in step 3.

The method above makes it easy to create runs and meadows or to sub divide paddocks.



Pasture/paddock gates

HAHN pasture and paddock gates complement the pasture and paddock fence. The installation method is the same for most of these:

Step 1: Install steel-reinforced posts (with the hinge recess facing inward) by driving into the ground (with a small pilot hole) or concreted in to leave 1.6 m to the top of the post. Distances between post centres are dependent on the choice of gate and the clear opening required:

- » Single gate (KTB 005/006) 103 cm clear opening
- » Single gate (KTB 003/004) 178 cm clear opening
- » Double gate (KTB 001/002) 360 cm clear opening

Step 2: Secure the gate leaf (either single or double) using the pre-mounted hinges on the gate post and align with a spirit level.

Step 3: For double gates, install the bottom sliding bolt with the supplied 6 x 35 mm pan head screws to make sure it engages safely into the ground. A small concrete plinth will make sure the sliding bolt locates securely.



Contact HAHN to get a copy of the full installation instructions or go to www.hahnequestrian.com

Working with hanit®

Working with our products is very similar to working wood or metal. They can be cut, sawn, drilled, routed and planed with standard tools and machinery. But for best results, here are a few tips.

- » Use carbide-tipped tools
- » Always pre-drill screw or bolt holes
- » Nail guns can be used but bear in mind that hanit® is more dense than wood
- » Use a mallet when hammering and be careful not to damage corners
- » Store posts and profiles away from direct sunlight

 <h3>SAWING & CUTTING</h3> <p>Use high-speed band saws and circular saws with slightly crossed teeth, preferably carbide-tipped. Quickly remove shavings and chips to avoid clogging.</p>	 <h3>ROUTING</h3> <p>Use a large span cross-section to keep machining heat relatively low. Use a high depth of cut and feed rate but a low cutting speed. Use carbide inserts for longer tool life.</p>	 <h3>PAINTING</h3> <p>Unlike painted wood or metal, the colour will never flake or peel. However, our products can be painted using all-weather plastic paints on a roughened and primed surface. We can't guarantee permanent paint adhesion.</p>
 <h3>DRILLING</h3> <p>Standard spiral bits can be used. Remove waste material and pause occasionally to allow the bit and plastic to cool.</p>	 <h3>PLANING</h3> <p>Standard planes can be used. The finish depends on the condition of the blade, feed rate, cutting speed, clearance and cutting angle.</p>	 <h3>DEBURRING</h3> <p>Angle grinders can be used for deburring. However, angle grinders are not suitable for cutting recycled plastic.</p>
 <h3>EXPANSION</h3> <p>Hahn products expand and contract by around +/- 1.5% with temperature variations. Use elongated slots for bolts or fastenings and follow individual product advice and expansion gap recommendations.</p>	 <h3>FLEXIBILITY</h3> <p>Recycled plastic is more flexible than wood or metal. This influences some planning and design decisions (e.g. maximum distance between fence posts), but all our products come with easy to follow recommendations.</p>	 <h3>PRODUCT STRUCTURE</h3> <p>Hahn products have a closed, non-porous surface and a honeycomb core. If one of our products is machined or cut in half, for example, the honeycomb core may become visible.</p>

We're always happy to help and have lots of guidance for installation and assembly of our products.

For more information visit www.hahnplastics.com

HAHN

PLASTICS

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HAHN Kunststoffe GmbH has been certified and authorised to use the "Blue Angel" eco-label since 2005.

www.blauer-engel.de/uz30a



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