



X-Grid[®]

Case Studies

SUCCESS STORIES

Applications:

Domestic Driveways
Commercial Car Parks
Camping & Leisure
Equestrian



X-GRID CASE STUDIES

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CASE STUDY ONE

Domestic Driveway



X-Grid is our best-selling product for a number of reasons, it's permeable, porous, is SuDs compliant and abides by all water management laws and regulations including SuDS. Not only that, it's exceptionally strong and will therefore protect and reinforce the ground while also encouraging natural drainage.

Getting the exterior of your home looking picture-perfect in time for summer, a house move, or anything else for that matter, is no easy feat, but with X-Grid, your hard work could be much more long

lasting. If you're fed up of the appearance of your outside space but you don't know how to change it, then you'll be pleased to know it's actually much easier than you first think.

The owners of this beautiful home were fed up of spending their hard earned cash on gravel for their driveway as within as little as a week, the majority would migrate.

Transforming Outdoor Spaces



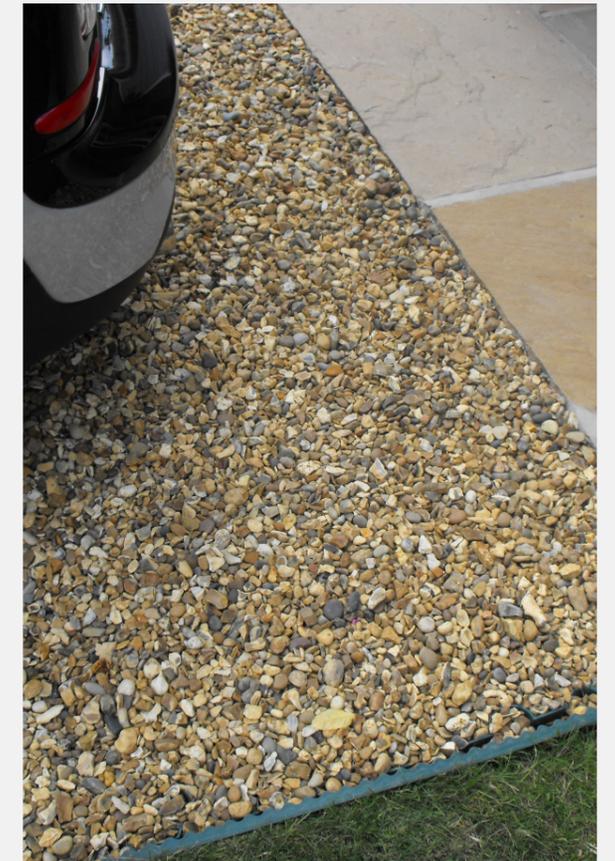
As one of the most cost effective, environmentally solutions available, X-Grid is extremely popular with people looking to lay a long-lasting gravel driveway.

These homeowners chose 40sqm of green X-Grid and used a beautiful, decorative gravel pack it tightly.

It's the cellular composition of the X-Grid which makes them the perfect product for preventing the displacement gravel while still allowing effective drainage.

As you can see from the images, this quaint little cottage is now looking picture perfect with all gravel in its rightful place.

If you're interested in seeing what X-Grid could do for your garden, get in touch or take a look at the range on our website at x-grid.co.uk



There's a huge range of decorative gravels available on the market and you're sure to find one which is perfect for your home.

Although often forgotten, a domestic drive is both the first and last thing any guests, visitors or potential buyers see. This means it can form both a first impression and can affect the overall desirability of a property. This kerb-appeal is incredibly important when considering selling any home.

Using X-Grid® your gravel will be retained, keeping your front looking neat and tidy all year round.

CASE STUDY TWO

Car Parks

With the introduction of the new sports areas and sixth form college, the school had very limited parking available and the increasing need for extra spaces became apparent when staff, visitors and students found themselves needing to park on grassed areas.

This in turn left a number of muddy patches around the school grounds, affecting the aesthetics of the area as well as becoming increasingly inaccessible. The amount of mud brought inside the school as a result of this increased, causing more work for caretaking and cleaning staff.

The Project

Pugh-Lewis Limited of Chesterfield, Derbyshire were awarded the contract to create a gravelled car parking area at the school to replace the currently used grass areas.

To help alleviate drainage issues and as a more ecologically friendly alternative to concrete or tarmac, the school decided to use X-Grid® as a permeable alternative to traditional car parking surfacing.

After excavating a number of areas around the school which were identified as being most suitable locations for the car parks, a compacted hardcore base of MoT type stone was used to provide the X-Grid® with a strong and stable sub-base.

By laying a geotextile membrane over the hardcore, they reduced the risk of weeds and added separation between the build-up layers.



The X-Grid was laid on top of a well screeded sand blinding layer and filled with a robust decorative gravel.

This created a permeable, yet substantial parking area for both students and visitors. Low-maintenance is one of the most important aspects for a school as the need to rake and maintain the surface costs time and money.



The Outcome

By replacing the existing grassed areas with gravel filled X-Grid®, Belper School alleviated their overcrowded car parks without the need to add any drainage infrastructure due to the X-Grid® being highly permeable and helping to disperse surface water back to the water table in a controlled manner.

The amount of mud around the school grounds was dramatically reduced to practically zero and parking areas were available for use all year round. This allowed staff, visitors and students more areas in which to park without damaging the aesthetics of their surroundings.

By using X-Grid® the gravel used in the car park was retained and does not migrate, meaning that the maintenance of the surface is massively reduced and keeps the areas looking as attractive as possible.

Did you know that X-Grid is manufactured entirely from recycled plastic products and is fully recyclable at the end of its life?

Proven to withstand up to 420 tonnes per square metre, X-Grid® is possibly the strongest product on the UK market relative to its weight, weighing just 5 kilograms per m².

CASE STUDY THREE

Camping & Leisure



Park Avenue had struggled with their grassed access roads with rutting and bald spots all year round and totally impassable routes in winter and times of poor weather

Park Avenue Holiday Village has many visitors during the open season, most of which arrive by car and need to drive around the park to unload their luggage at the holiday home.

The ground was becoming increasingly muddy from high-volumes of vehicle traffic moving around on the site, as well as constant foot traffic adding to the issue. This meant the grass had no respite to regrow and establish a tight-knit surface.

The issue intensified during wetter months and became sludgy during autumn and winter, causing access issues. There were various areas around the park which needed improving in order to allow visitors to travel by car on the site.

The contractors firstly excavated the ground, removing the top turf surface and down to a suitable depth. A ground stabilisation mesh was installed within the sub-base in order to help add more strength and stability to the soil base.

This was then topped with a depth of MoT hardcore which is compacted to form a solid base layer and covered with a geotextile membrane to keep the individual layers separate.



Functional, Attractive & Durable

After levelling with a blinding layer of sharp sand, the X-Grid® was laid and filled with a mix of soil and grass seed. After a period of growth, the grass area then formed the grass access routes which can be used all year round.

After allowing the grass seed to grow, Park Avenue Holiday Village had a much more complete access route network, allowing their visitors and holiday makers to arrive at their holiday homes and unload their vehicles at the side of their home.

In a stark contrast to previous years, these grassed roads now do not rut or become muddy and once the grass has matured, the X-Grid® is almost invisible while still providing a solid and stable surface for many years to come. The grass can be mowed over without any hinderance, allowing access for ride-on lawnmowers to maintain the access routes much more quickly and effectively.

- UK Manufactured from 100% Recycled Plastic
- 420 tonnes/m² Load Capacity
- UV & Weather Resistant
- Eco-Friendly Alternative to Tarmac
- Helps to Maintain Natural Drainage Routes

CASE STUDY FOUR

Equestrian



When you imagine a stables, you imagine luscious green grass, perfectly pruned hedges and raw wooden fences. Well, these stables were far from it, as you can see from the picture on the page opposite.

Once upon a time, this stable area had been exactly as you'd have imagined, but over time the constant use by equestrian and pedestrian traffic, along with adverse weather conditions meant the beautifully

laid grassed area had quickly become exceptionally muddy and even boggy in places.

X-Grid is renowned for transforming dilapidated grassed areas and giving them a new lease of life almost instantly. Thanks to their unique cellular design, these panels maintain natural drainage routes into the ground and encourage the drainage of surface water which helps prevent future build-up and flooding.

A Versatile Equestrian Product

Stable Blocks, Menages, Paddocks, Lunging Rings, Foal Walks. X-Grid® is suitable for all equestrian settings and can be filled with grass, rubber mulch, bark and many other fills.

With a strength and durability unseen in other, similar products on the market, X-Grid really is unique, able to cope with weights of up to 420 tonnes per square metre (remarkable considering they're so lightweight) and therefore the perfect product to help transform equestrian arenas, stables, access routes, commercial car parks and driveways.



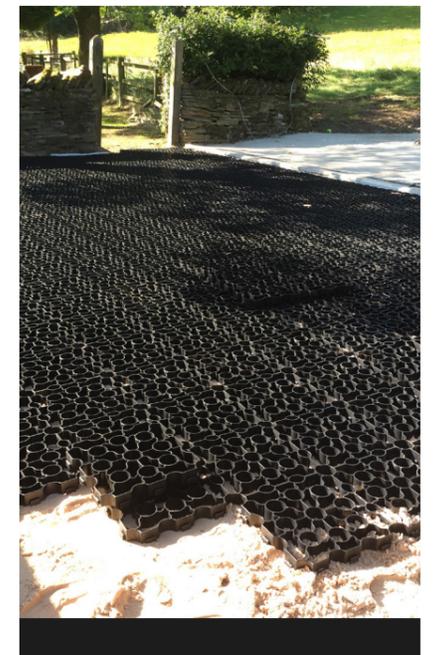
Excavation

Opting for black X-Grid panels, the stable owners first removed the previous grass layer and levelled the ground, ensuring that the area was free from any undulation or potential drainage issues such as clay.



Preparation

After the excavation the contractor installed a geotextile membrane which is in turn covered in a blinding layer of sand to allow the grid to bed into a soft medium. The sand also helps to completely flatten the surface and smooth out any lumps.



Installation

Next came the much awaited X-Grid panels, connected one by one using their interlocking system and filled with soil and grass seed.

This allows the grass blade respite from erosion and encourages drainage.