

## Ground Reinforcement Grid

X-Grid is the ultimate ground reinforcement and gravel retention grid. Designed and manufactured in the UK from **recycled plastic** waste, X-Grid is the ideal product for use when wanting to create strong, durable and **low-maintenance** surfaces. Weighing just over 5kg per square metre and with a load capacity of up to **428 tonnes per square metre** when unfilled, our grid can be used for a variety of applications such as commercial car parks, domestic driveways, access routes, livestock areas, gateways and so much more. Thanks to the open cell structure of the grid, your area can be filled with any number of different materials to ensure your project will have a suitable final finish.

- RUBBER GRASS MATS
- RUBBER PLAY TILES
- SHED BASES
- STEEL FIXING PINS
- PLASTIC FIXING PEGS
- LAWN & BORDER EDGING
- HOT TUB BASES
- SOAKAWAY CRATES
- GARDEN BUILDINGS
- RUBBER GYM MATTING
- GRASS PROTECTION MESHES
- GRASS REINFORCEMENT MESHES
- GROUND REINFORCEMENT & GRAVEL RETENTION GRID
- GARDEN FURNITURE
- HOT TUBS & SWIM SPAS
- DRIVEWAY DRAINAGE
- LANDSCAPING & WEED CONTROL MEMBRANES



Scan QR code for more info

The Garden Range are dedicated to providing our customers the most accurate details in order for them to make an informed decision on our range. However, there may occasionally be errors or omissions and we reserve the right to amend or remove specifications without notice.

This document was produced in **October 2020** and the reliability and accuracy of this data should be checked by the reader prior to design or purchase.



[thegardenrange.co.uk](http://thegardenrange.co.uk)



[sales@thegardenrange.co.uk](mailto:sales@thegardenrange.co.uk)



+44 (0)1246 589021

### 100% RECYCLED

X-Grid is an eco-friendly product which is manufactured from recycled plastic waste and is also recyclable

### STRENGTH

X-Grid is incredibly strong and capable of withstanding over 420 tonnes of compression per square meter when unfilled

### WEATHER RESISTANT

Designed to not become brittle due to the effects of UV or frosting, X-Grid is resistant to weathering

### LIGHTWEIGHT

X-Grid is an easy to handle and install product due to weight just over 5kg per square metre

### DDA COMPLIANT

X-Grid is a DDA compliant product, providing access for wheelchair users over both grass and gravel finishes

### UK MANUFACTURED

X-Grid is truly British product. Designed and manufactured in the UK from domestic plastic waste

### INTEGRAL FIXINGS

With a moulded, integral slot and peg connection, panels of X-Grid can be easily connected together

## KEY FACTS

- » **Panel Size:** 330x330x40mm
- » **Panel Weight:** 574g
- » **Panels/m<sup>2</sup>:** 9
- » **Material:** Recycled Polypropylene
- » **Colour:** Black/Green/Natural
- » **Load Capacity:** 428 Tonnes/m<sup>2</sup>
- » **Connection:** Integral Slot & Peg
- » **Rate of Installation:** 100m<sup>2</sup>/person/hour
- » **Wall Thickness:** 3mm
- » **Void Ratio:** 93%
- » **Operating Temp:** -50 to +90oc
- » **Max Gradient:** 12%
- » **Lifespan:** Up to 25 years

## APPLICATIONS



### DRIVEWAYS

Create strong gravel or grassed driveways with X-Grid's unique design



### GARDEN BUILDINGS

Provide efficient foundations for sheds, log cabins, greenhouses & more



### HOT TUBS

Strong enough to support the weight of any hot tub or swim spa



### LANDSCAPING

Create paths, walkways, embankments and grass roads



### GOLF & LEISURE

Produce bunkers, buggy paths, jetties, marinas, fishing swims and racetracks



### EQUESTRIAN & FARM

Create paddocks, farm gateways, exercise areas, tracks and feed areas

## Installation Instructions

1. Mark out the area to be excavated and dig down to an appropriate depth according to the intended use. Typical dig depth is around 200mm to allow for MoT hardcore layer, levelling sand and grid depth.
2. Install perimeter edging which is substantial enough to retain the grid installation, such as 150mm pin kerb edging, timber edging, stone setts or bricks. This will help to eliminate lateral movement of the surface.
3. Backfill by compacting MoT type 1 or 3 in layers of 50mm to achieve a final depth of 150mm.
4. Lay and secure a sheet of geotextile membrane across the MoT sub-base area. You must ensure that the membrane is flat to the surface by securing it into the ground using fixing pegs or pins as required.
5. With the membrane in place, lay a 5-10mm thick layer of sharp sand to the entire area to level it out and create a granular bedding for the grid to sit on.
6. On to the fully formed, well consolidated sub-base, begin laying your X-Grid ground reinforcement grids. Start in one corner, lay one panel at a time and simply connect any neighbouring X-Grid panels using the slot and peg connection. Repeat the process of lay and connect until the area is covered.
7. If needed, X-Grid can be cut using a hand or power saw to fit into your specified area or to navigate around obstructions and curves. We recommend avoiding the use of cut pieces of X-Grid which are less than half of the original size of the panel. Your X-Grid panels can then be firmed in place using a light vibrating whacker plate if you require. Edges which require a panel less than ~150mm can simply be backfilled against the edging without grid.
8. Once installed, fill your X-Grid with a gravel or aggregate. Preferably a 10-20mm diameter, well graded, clean and angular material. Fully rounded 'pea shingle' is not recommended due to probable migration of the gravel.
9. You can compact the surface of your X-Grid using a light vibratory whacker if required.
10. If you find you have any low areas, refill these spots with your gravel and compact again until you are happy with the finish.
11. Your X-Grid gravel surface is complete and can used immediately.



PRODUCT CODE	COLOUR	DESCRIPTION	DEPTH (mm)	DIMENSIONS (mm)	PACK SIZE	UNIT WEIGHT (kg)
XG40B-001	Black	X-Grid Black Single Panel	40	330x330	1	0.574
XG40G-001	Green	X-Grid Green Single Panel	40	330x330	1	0.574
XG40N-001	Natural	X-Grid Natural Single Panel	40	330x330	1	0.574
XG40B-009GR	Black	X-Grid Black Square Metre	40	990x990	1	5.17
XG40G-009GR	Green	X-Grid Green Square Metre	40	990x990	1	5.17
XG40N-009GR	Natural	X-Grid Natural Square Metre	40	990x990	1	5.17