



gridforce

THE **ULTIMATE** IN GROUND REINFORCEMENT

Gridforce Product Data Sheet

Overview of the Gridforce Range

Gridforce is a unique and revolutionary paver system which provides permeable ground reinforcement solutions across an extremely wide range of applications. The Gridforce range provides an unequalled combination of highly engineered design, choice of 5 paver options and manufacture in low density polyethylene. LDPE not only produces high compressive strength but also gives the pavers a flexibility and resilience which enables the the system to satisfy all client requirements, from footpaths to car parks, emergency fire access routes and HGV overrun.

Gridforce is normally laid on a free draining stone base, eliminating the need for drainage pipework and returning stormwater to the water table, thereby relieving pressure on sewers. Depending on ground conditions, a reduced or no dig solution may be an option.



Base Design

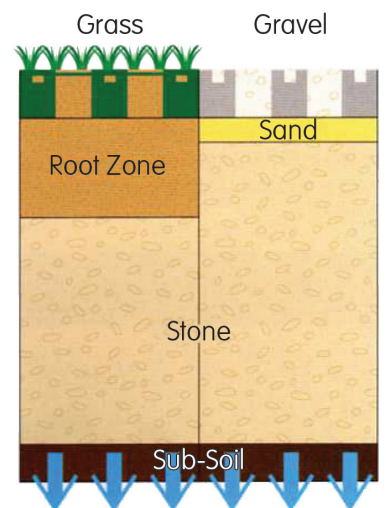
1. Grass Finish

The base should consist of a free draining crushed stone (not MOT Type 1 which is not free draining). DfT Type 3 (formerly MOT Type 1x) is ideal and the depth is determined by prevailing ground conditions and loads to be carried. Typically, a 150mm layer of well compacted stone is overlaid by 60mm of 60:40 rootzone. The Gridforce pavers are then laid, consolidated with a vibrating plate and cells filled with rootzone, clean friable topsoil or, for best results, blended loam. Slight settlement of cell infill will occur and cells should not be topped up.

2. Stone Finish

Base stone as for grass finish. Typically, 200mm deep but again determined by ground conditions and loads to be carried. Overlaid by 30mm deep layer of screeded sharp sand, on which the Gridforce pavers are laid. Pavers are then vibrated until c. 10mm of the sand is worked up into the bottom of each paver cell. Cells are filled with free draining angular stone (max. particle size 14mm). We are able to give guidance on base design and can also offer the option of an **installation service**.

Base Cross Section



For full details see full "Installation Guide"

(A) Gridforce Product Usage Guide

	Park30	Park40	GF30	GF40	GF50
Footpaths - Grass Fill		✓		✓	✓
- Stone Fill	✓	✓	✓	✓	✓
Lawn Reinforcement (for car parking)		✓		✓	✓
Domestic Drive - Grass Fill		✓		✓	✓
- Stone Fill	✓	✓	✓	✓	✓
Grass Verge Reinforcement (Unless guaranteed car overrun only)				✓	✓
Overflow Car Parks - Grass or Stone Fill		✓	*	✓	✓
Regularly Used Car Parks - Grass or Stone Fill		*	*	✓	✓
Emergency Fire Lanes - Grass or Stone Fill				✓	✓
Coach, Lorry, Dust Cart & Fork Truck Trafficking - Grass or Stone Fill				✓	✓

* On selected applications - Please contact us

(B) Gridforce Product Data

Composition: 100% Recycled Low Density Polyethylene (LDPE) UV Stable

Product	Park30	Park40	GF30	GF40	GF50
Depth mm	30	40	30	40	50
Length mm	580	580	500	500	500
Width mm	390	390	500	500	500
Cell Diameter mm	70	70	70	70	70
Cells per Paver	54	54	49	49	49
Open Area at Surface	90%	90%	96%	96%	96%
Cell Wall Thickness mm	2.5	2.5	3	3	3
Weight Per Paver kgs	0.75	1	1.1	1.4	1.6
Area per lift of 4no. preconnected pavers (m ²)	0.90	0.90	1	1	1
M ² per shrink wrapped disposable pallet	72	54	80	60	48
Compressive Strength Tonnes/ M ²	200	200	350	350	350
Colours (Other colours available subject to quantity)	Green	✓		✓	
	Black		✓	✓	✓
Pallet Dimensions mm	780x 1160x2550		1050x1050x2550		

Metal "J" Pins (for cut pavers and extreme gradients)

300mm x 7mm

Parking Markers (to delineate bays and create disabled logo)

White or High Visibility Yellow

