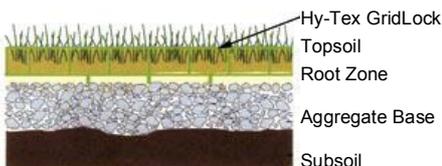


Hy-Tex **GridLock** Ground Reinforcement Pavers



Please note that the depth of stone required is subject to local conditions, and may also be reduced by the inclusion of a geotextile membrane (Such as Terralys LF 16/16 or Covertex).

In areas that require the high load bearing capacity of asphalt, Hy-Tex **GridLock** offers a soft landscaping solution to hard landscaping problems, which is both economically viable and aesthetically pleasing.

GridLock is manufactured from tough HDPE into convenient sized paver tiles that have an attractive geometric pattern and which can be in-filled with grass or decorative gravel to provide a durable free-draining surface.

Key features include raised dimples for improved vehicle traction, perforated based plates for efficient drainage, soil aeration and intercellular root growth, and underside cleats to reduce surface shear. They are also resistant to oil, chemicals and extremes of temperature and have the strength to withstand loads in excess of 170 tonnes per square metre.

Unlike traditional methods of constructing hard-standing areas, there is less site preparation required with **GridLock** which enhances the sub-base by distributing loads whilst minimising soil and root compaction - this therefore reduces the need for excavation and expensive granular backfill and provides a favourable growing environment for vegetation and nearby trees.

Installation is quickly carried out by placing the pavers on a bedding layer of sand and soil. Interconnecting and self-positioning supports provide stability and link multiple units when covering large areas.

The cells of the pavers can then be in-filled with soil and seeded, or turf can be laid directly onto the product and lightly rolled in. Alternatively they can be in-filled with decorative gravel for drives and paths and optionally linked with sustainable urban drainage systems (SUDS) to control stormwater run-off.

If demarcation lines are required, white hexagon-shaped caps can be inserted into the cells or they can be filled with coloured stones.

Emergency access roads, road verge reinforcement, light aircraft taxiways, helicopter landing pads and lorry parks are but a few of the many applications to which this versatile product can be used.

Specification	Hy-Tex GridLock
Material	Green, Interlocking HDPE Paver Tile
Size	0.60 x 0.45m
Height	45mm
Weight per Tile	1.5kg
Cells per Tile	88
Open Area	94%
Coverage Area	Approx 3.70 tiles/m ²

Installation Guidelines The installation design depends on two factors: the maximum load that the installation will have to carry and the strength of the base on which it will be laid. A pathway for pedestrian use only, built on free draining soil, may only require the surface to be levelled and the pavers laid directly onto the soil. A roadway for an emergency access road on a very weak soil, will require a stone sub-base to be laid with a layer of rootzone before the pavers are laid.

It is therefore very important that the strength of the base is checked prior to specification, and with due reference to its subsequent use.

GridLock pavers being only 45mm deep are easily laid and filled, with a laying rate of 40m² per hour achievable. The pavers can easily be cut to follow the shape of an obstruction or kerb, and can simply be removed if the need arises to access underground services.

The illustration shows a typical construction for a car park. The area is excavated to the required depth and drains laid if necessary. A textile membrane may be laid to separate the stone layer, and this will reduce the depth of stone required. A layer of crushed stone is laid and well consolidated. The rootzone layer is applied above the stone. It is recommended that a 60% sand: 40% soil mix is used, with a minimum consolidated depth of 100mm.

The rootzone **MUST** be moist when consolidated in order to avoid differential settlement. Soft spots must be avoided. The pavers are then laid, filled with rootzone and seeded. A top dressing should then be applied to cover the seed. Adequate clearance should exist between the rootzone and the top of the paver, to allow the grass plants to flourish unhindered by the traffic above.

If the GridLock pavers are to be filled with stone then the rootzone layer can be omitted, and a layer of coarse grit should be introduced as a bedding layer to a depth of 25mm.