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Accessories



GrassMesh™

The GrassMesh™ range of robust, extruded, polyethylene meshes provide a discreet method to improve wear resistance and reinforce grass areas used by vehicles and/or pedestrians, whilst maintaining their appearance. This offers outdoor event organisers a practical method to preserve grassed parking areas and improve access and mobility.

They are ideal for car parks, recreation areas, caravan parks, access routes, light aircraft taxiways, livestock areas and urban parkland verges.

All grids are UV stabilised, tough, and rot proof to provide a long service life.

The GrassMesh™ range consists of the following grades -

GrassMesh™ Light

GrassMesh™ Medium

GrassMesh™ Flex 1000

GrassMesh™ Flex 1400

GrassMesh™ Flex 1800

Features/Benefits:

- Robust, extruded polythene mesh
- Can support HGV's (Flex 1800)
- Preserves grass parking areas
- UV stabilised and rot proof
- Improved slip resistance (33% better than other grass protection meshes on the market)
- Ideal for emergency access routes
- Numerous grades allow for individual budgets to be catered for

Guidance

- We suggest 50 pins per 20m² roll
- We suggest 100 pins per 40m² roll
- Fixings also available: 150mm long 'U' shaped, or 300mm long 'J' shaped, squared topped, 6mm ribbed rebar fixing staples for all grades applied at average 100 pins/roll. Also optional yellow plastic marker pegs for outlining parking bays and border.

GrassMesh™ Flex
33% better slip resistance!

Application Categories: Grass Reinforcement and Porous Paving

Hy-Tex (UK) Limited
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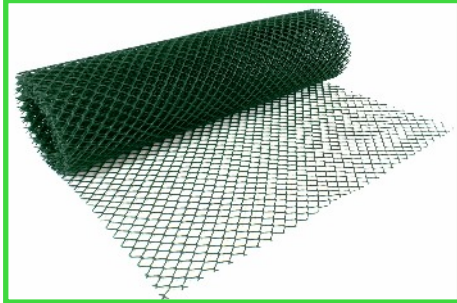
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GrassMesh™ Installation Guidelines

For permanent applications it is strongly recommended that installation be carried out during the growing season of early Spring to early Autumn to allow a strong interlock between the mesh and the grass roots, as the intertwining of the roots with the mesh gives the turf the strength to resist trafficking. Therefore vehicles and pedestrians should be kept off the area until the grass has grown at least 25mm and been mown twice with blades high. It is also strongly recommended to address any drainage issues before installing the meshes as they are not intended to compensate for poorly drained ground.



1. Cut grass short and ensure the surface is free of debris and stones and is as even as possible. Fill any depressions with a 70:30 mixture of sharp sand and topsoil, level and firm.
2. Unroll the mesh and ideally leave for a minimum of an hour so mesh regain its natural flatness. Fix one end using our pegs/pins. Pull taut and pin opposite end. Alternatively, trench roll ends into the surface, firm down and peg as normal.
3. Overlap adjacent Medium rolls by at least 150mm. Butt together roll edges of all other grades.
4. Secure overlaps and all external edges at maximum 1 metre intervals for Medium and 300 to 500mm for all other grades to ensure there are no raised edges. For additional security fix along centre of each roll at 1 to 2m centres.
5. Add further pins, where necessary, to ensure the mesh fits tightly to the ground (average usage 100 pins per roll).
6. When satisfied that the mesh is flat and secure, brush a dressing of good quality sandy topsoil over the mesh. Ensure that the mesh filaments are covered and the apertures are filled. This will help promote root growth around the mesh.
7. Any areas that have been levelled with sandy topsoil should be seeded at a rate of approximately 30g/m².
8. For best results pedestrians and traffic should be kept off the treated areas until the grass has become fully established over the mesh. This usually takes 3 to 4 weeks during the growing season. Warning: Although we supply the most slip resistant meshes we can not account for variances in climatic and ground conditions so they may be slippery in wet weather, or under icy conditions, and care should be taken if pedestrians are allowed to walk on the mesh before the grass is established.
9. Set mowers to cut fairly high for the first 2 to 3 cuts, so that contact with the mesh is not made. When the grass is established and the roots are entwined with the mesh, the grass can be cut normally.
10. If any raised areas appear after the initial installation, these can be addressed by using additional U-pins.

Feature	Hy-Tex GrassMesh™				
	Light	Medium	Flex 1000	Flex 1400	Flex 1800
Material	HDPE		Polyethylene & EVA (Foam)		
Colour	Green		Green/Brown		
Mesh Size	22 x 22mm	27 x 27mm	15 x 15mm		
Tensile Strength	3.4kN/m	4.5kN/m	6.5kN/m	9.5kN/m	11.5kN/m
Overall Thickness	4mm	5mm	9mm	11mm	13mm
Weight	450g/m ²	640g/m ²	1000g/m ²	1400g/m ²	1800g/m ²
Roll Size	2 x 30m	2 x 30m	2 x 20m		
Roll Diameter	40cm	43cm	51cm	52cm	59cm
Fixings	150mm long 'U' shaped, or 300mm long 'J' shaped, squared topped, 6mm ribbed rebar fixing staples for all grades applied at average 100 pins/roll. Also optional yellow plastic marker pegs for outlining parking bays and border.				

Please note that all information is given as a guide only. Hy-Tex cannot be held liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.

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Product Selector Ground Reinforcement


Selecting the right product for your project will be determined by several factors, the type of loading expected, the frequency of use and the strength of the in situ soils. When assessing the loading frequency, note that the entrances, exits and any access roads undergo significantly increased loading frequency compared to the parking bays. If in doubt please speak to HY-TEX personnel.






TYPE OF LOADING

Pedestrian/wheelchair use 

Light commercial vans, caravans, boats 

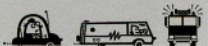
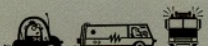
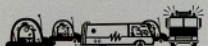
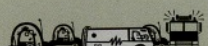
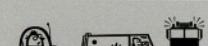
Standard cars including 4x4 

HGV/fire truck access 

LOADING FREQUENCY PEDESTRIAN	CRITERIA	PRODUCT
Emergency access  Single usage	Single day use, no more than once a year	CBR 4 + GP-FLEX® 1000
Low footfall occasional use  20 days max	Low footfall traffic single day used no more than 20 days per year*	CBR 6 + GP-FLEX® 1000
High footfall occasional use  20 days max	High footfall traffic single day use no more than 20 days per year*	CBR 6 + GP-FLEX® 1400
Intensive occasional use  Consecutive usage	High footfall traffic used for up to 7 consecutive days once a year or for use up to two consecutive days on a weekly basis	CBR 6 + GP-FLEX® 1400
Permanent use  Permanent usage	Medium footfall traffic used on a daily basis	CBR 6 + GP-FLEX® 1800

* At least 5 days should be provided between loading cycles

CBR (Californian Bearing Ratio)

LOADING FREQUENCY VEHICULAR	CRITERIA	PRODUCT
Emergency access  Single use	Single day use, no more than once per year	CBR 4 + GP-FLEX® 1400 CBR - 4 POROUS PAVER
Low number occasional use  20 days max	Single day use 100 vehicle movements per day no more than 20 days per year*	CBR 6 + GP-FLEX® 1400 CBR - 6 POROUS PAVER
High number occasional use  20 days max	Single use 1000 vehicle movements per day no more than 20 days per year*	CBR 8 + GP-FLEX® 1800 CBR - 8 POROUS PAVER
Intensively trafficked occasional use  Consecutive days	500 vehicle movements per day for up to 7 consecutive days twice per year** or up to 2 consecutive days on a weekly basis	CBR 8 + GP-FLEX® 1800 CBR - 8 POROUS PAVER
Permanent use  Permanent use	100 vehicle movements per day	CBR 1 + POROUS PAVER

* At least 8 days should be provided between loading cycles between April - October

** At Least 30 Days should be provided between loading cycles between April - October

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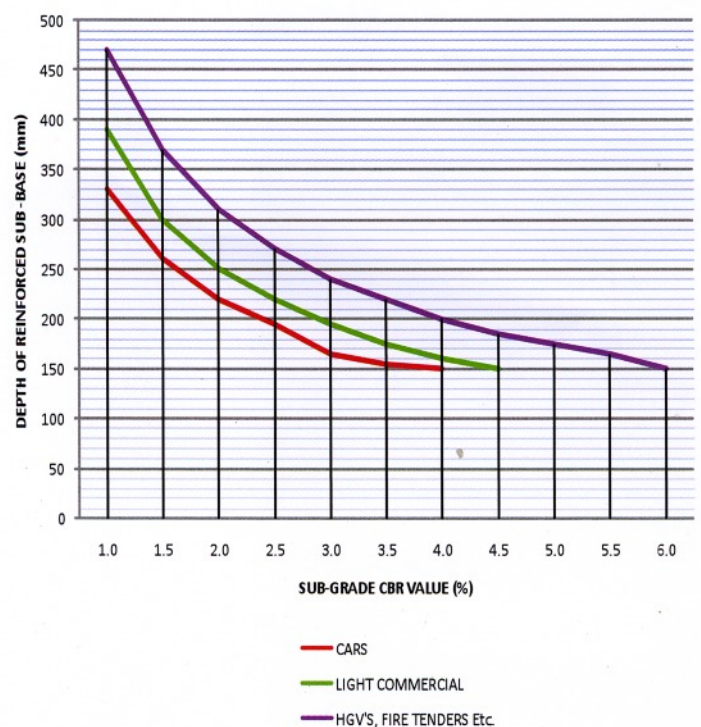
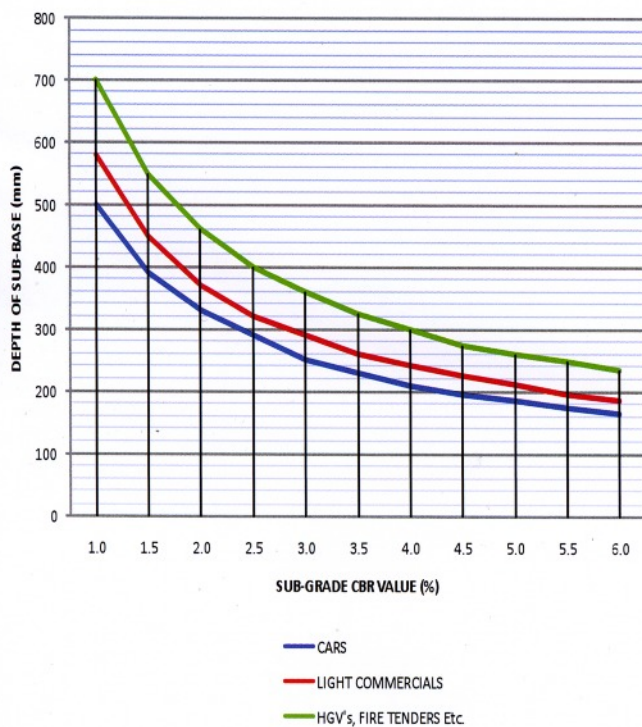
Product Selector Ground Reinforcement

CBR is the Californian Bearing Ratio test usually performed by an engineer to determine the strength of the ground. To assist in this determination, the table below shows field observation details, given in BS 5930, to help determine the expected strengths of the in situ soils. Please note that the figures given refer to the underlying soil below the root zone and not the top soil.

SOIL STRENGTH DESCRIPTION	IN SITU MANUAL TEST	ESTIMATED SHEAR STRENGTH (kN/m ²)	EQUIVALENT CBR (%)
Very soft	Finger easily pushed in up to 25mm.	0-20	< 1
Soft	Finger pushed in up to 10mm.	20-40	1 - 1.5
Firm	Thumb makes impression easily.	40-75	1.5 - 6
Stiff	Can be indented slightly by thumb	75-150	3 - 6
Very stiff	Can only be scratched by thumbnail	150-300	12 - 6

As an added complication, the drainage characteristic of the existing soils can exert as great an influence as the underlying soils. **HYTEX** recommend that the drainage of the soils be considered from the outset.

Where porous pavers are to be used, a sub base will need to be installed before the placement of the pavers in order to reinforce the ground and help with the drainage. The graphs below give an indication of the depth of sub base required relating to the strength (CBR) of the existing ground.



The above information is given in good faith and as a guide only. In all cases, **HYTEX** advise that the services of a qualified geotechnical engineer, with the relevant experience, be sought before work commences.

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