

Hy-Tex GrassMesh™ Reinforcement & Protection Meshes

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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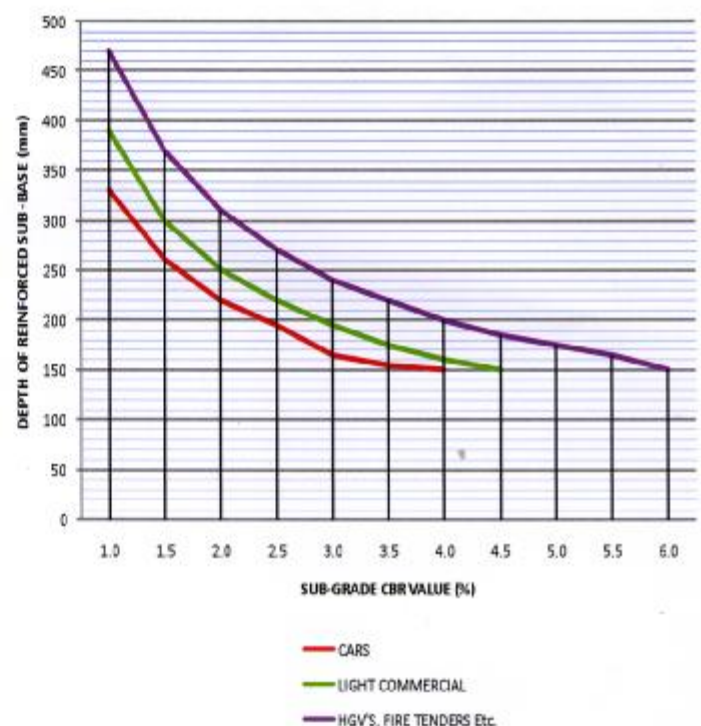
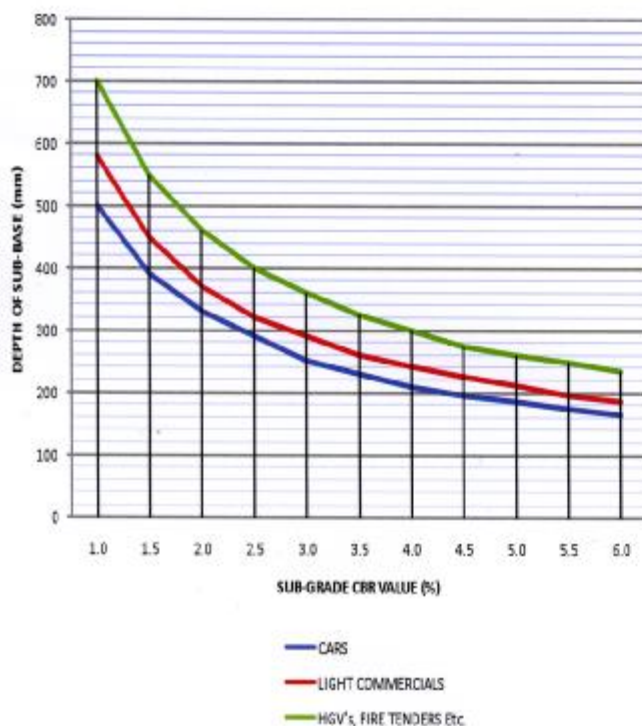
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CBR is the Californian Bearing Ratio test usually performed by an engineer to determine the strength of the ground. To assist in this determination, the table below shows field observation details, given in BS 5930, to help determine the expected strengths 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.