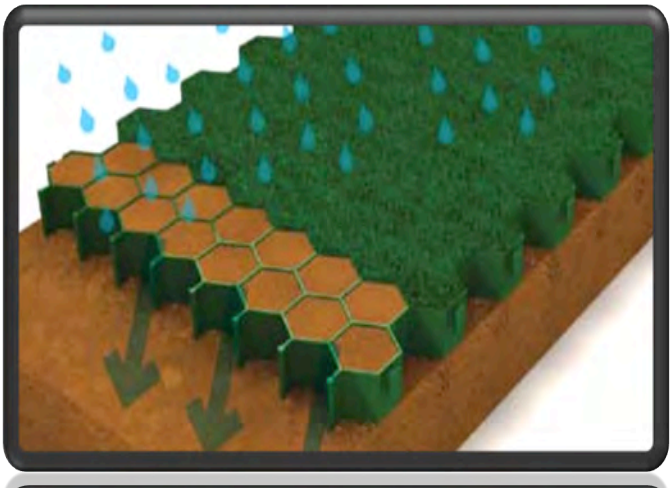
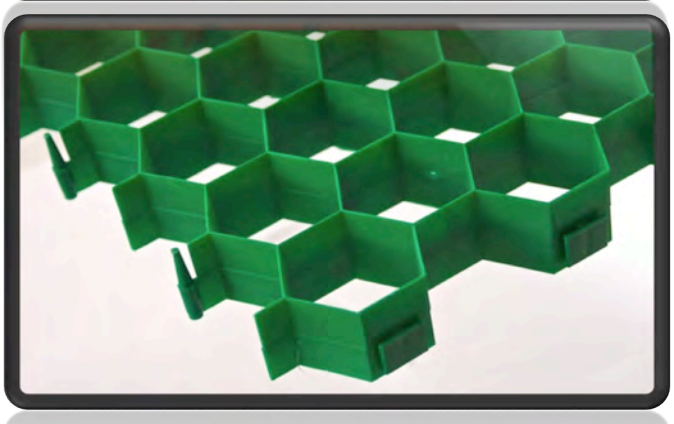
COREgrass® 50-35mm / 60-40mm

Product Code: COREgrass 50-35mm ; COREgrass 60-40mm

The sheets should be laid on a suitable sub-base (see CBR sub-base guide table below) Alternatively they can be laid over existing; tarmac, concrete or gravel driveways as follows.





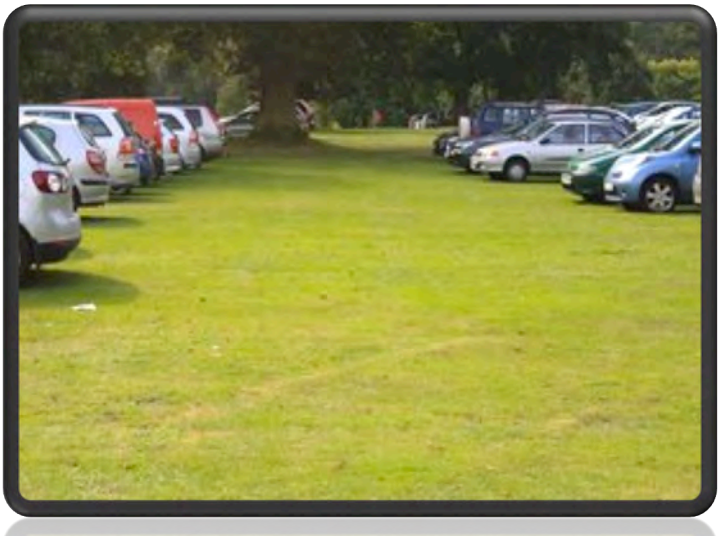
Environmentally Friendly: Completely porous and SUDS compliant (Sustainable Urban Drainage System).
Perfect For: Driveways, car parks, access roads, emergency access routes, hard-standings, bridleways and pathways.
Suitable For: Bicycles, Cars, 4x4s, Light Commercial Vehicles and fully DDA Compliant (Disability Discrimination Act).
Sustainability: Available in green 100% recycled Polypropylene.

Load Bearing:
COREgrass 50-35 = 150 tons p/m^2 empty and 250 tons p/m^2 full (approximately 20 tons of axle weight).
COREgrass 60-40 = 200 tons p/m^2 empty and 300 tons p/m^2 full (approximately 25 tons of axel weight)

Summary

- Easy to self-install.
- Easy to manage sheet size or large sheets for quicker install time on larger projects.
- Easy to cut using small angle grinder or disc cutter.
- The sheets are highly flexible, allowing them to bend slightly and follow the contour of the ground.

Brief Install Guide
Existing suitable surfaces: blind over existing surface with sharp sand to form a continuous smooth base level, lay grid and clip together to form one continuous matrix. Fill with structural soil (as per Core Systems recipe) then damp down with water to allow soil to settle into cells, this forms a soil/ loam mix. Surface dress the cells and cover by approximately 10-15mm, seed the area and water thoroughly. **Laying COREgrass with required excavation work**: excavate to required subi base depth, lay 100i 350mm of suitable subi base material (crushed type 1 or washed aggregate) and follow steps from install guide above.
Coverage:
COREgrass 50-35 = 0.86m2 per 1200x720mm sheet.
COREgrass 60-40 = 1.15m^2 per 1150x1000mm sheet.



COREgrass® Technical Data

CBR Sub-base Guide

Application Load	CBR (%) Strength of Subgrade soil (see chart below)	DoT Sub-base Thickness (mm)
Fire Engine and occasional HGV access	≥6 =4 <6 =2 <4 =1 <2	100 120 190 380
Light vehicle access and overspill parking	≥6 =4 <6 =2 <4 =1 <2	100 100 135 260

The above table showing sub-base thicknesses is intended as a general guide in accordance with BS7533. For further details on permeable paving design refer to BS7533 Part 13; for installation refer to BS7533 Part 3.
The design for pavements should satisfy two parts – to support the traffic load and to manage surface water
To determine CBR (California Bearing Ratio) of site ground please refer to the table below.

Subgrade Field Assessment

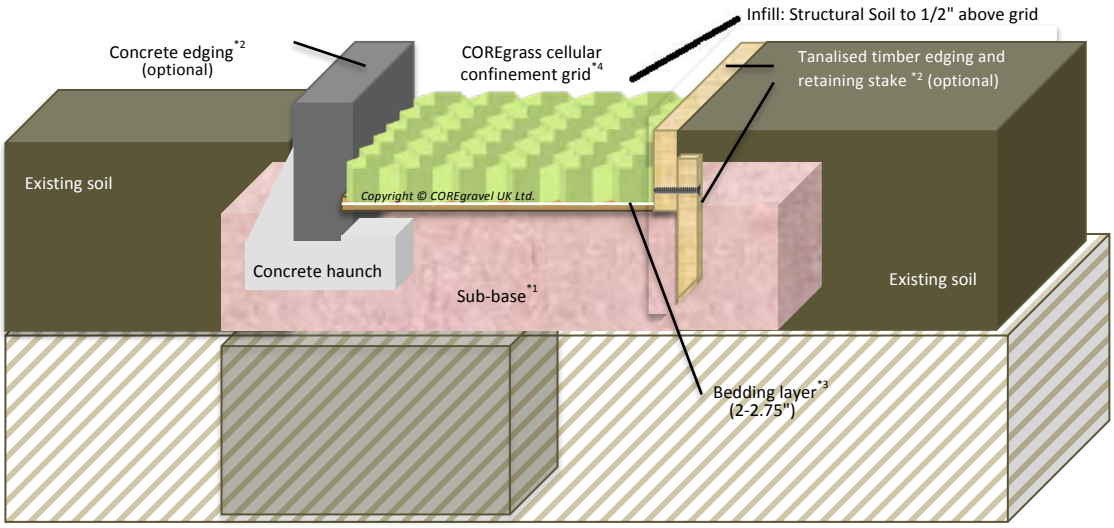
Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test) SPT	CBR %	CU kN/m^2
Very Soft	Hand sample squeezes through fingers	Man standing will sink >75mm	<2	<1	<25
Soft	Easily moulded by finger pressure	Man walking sinks 50-70mm	2-4	Around 1	Around 25
Medium	Moulded by moderate finger pressure	Man walking sinks 25mm	4-8	1-2	25-40
Firm	Moulded by strong finger pressure	Utility truck ruts 10-25mm	8-15	2-4	40-75
Stiff	Cannot be moulded but can be indented by thumb	Loaded construction vehicle ruts by 25mm	15-30	4-6	75-150

Product Data

Description	Data		Description	Data	
Product	50-35	60-40	UV Resistance	High	
Cell Diameter/Depth	50mm/35mm	60mm/40mm	General Use	Car/4x4/Transit Van/Fire Engine/HGV	
Chemical Resistance	Excellent		Small Sheet Size/Area	N/A	1150x1000mm/1.15m^2
Cell Wall Thickness	2.3mm	2.5mm	Large Sheet Size/Area	N/A	N/A
Max Weight (Filled)	250 tons	300 tons	Max Weight (Empty)	150 tons	200 tons
Material	100% recycled green Polypropylene		Interlock Mechanism	Overlapping Slot/Pin and Socket Connection	

COREgrass® Install Guide

Technical install Diagram



Sub-base *1 = Once the CBR has been established lay the sub-base at the required depth for the intended traffic load. **Standard sube base** could be DoT type 1; scalpings; crushed limestone; firm existing surface i.e. old gravel driveway, asphalt or concrete. Sharp sand or road crush should be laid (10-20mm) to form a bedding layer and iron out any minor deformities in the subi base.
SUDS compliant sub-base should contain no fines (nothing smaller than 2mm). This prevents the base from binding together; allowing water to penetrate freely i.e. clean angular gravel or clean crushed aggregate. The smaller aggregate should be laid to form a bedding layer on top of the larger aggregate, when compacted this will form a suitable surface on which the grid system can be laid.

Edging *2 =The choice of edge restraint is partly dependant on the intended application and the intended traffic load. Concrete, timber, metal and recycled plastic are all suitable.

Bedding Layer *3 = Sharp sand (not recommended for extreme cold weather environments) or road crush should be used for non SUDS compliant installs. 3-6mm clean crushed aggregate should be used for a truly SUDS compliant install.

Specific advice on the use of COREdrive on steep slopes, drainage sustainability and Sustainable Urban Drainage Systems (SUDS) applications can be obtained from CORE systems.

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