

COREpath® 38/18

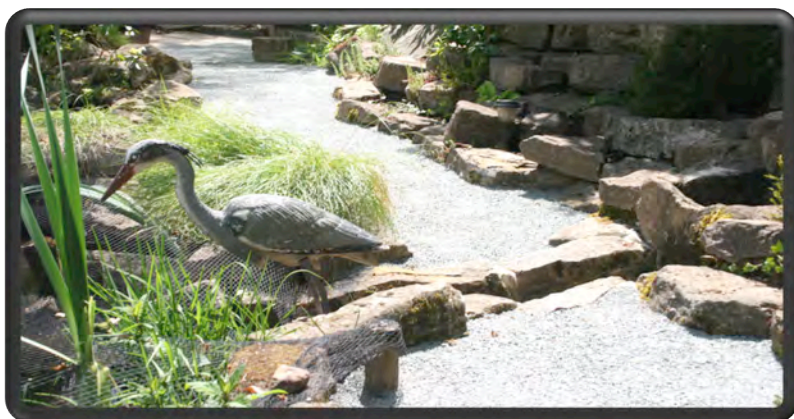
Product : 38mm cell diameter/18mm cell depth

Aggregate Size:

We recommend up to 12 mm (1/2") angular gravel. [Please note the smaller the aggregate, the flatter it lays, the easier it is to walk on]

The sheets have a weed membrane heat welded to the underside and should be laid on a suitable sub-base (see CBR sub-base guide table below)

Alternatively they can be laid over existing; asphalt, concrete or gravel pathways as follows.



Brief Install Guide

Can be laid over firm ground on a 10-15 mm (3/8"-5/8") sharp sand blinding, if ground is soft, firm with thin layer of sub-base depending on CBR (California Bearing Ratio) of existing ground. Each pack requires 40kg/88lbs or 2 bags of gravel, ensuring there is a thin layer of gravel to cover the grid. Can also be laid directly over existing concrete, tarmac, gravel or paving slabs. Simply level the existing surface, with a blinding of sharp sand. Ensure adjoining surfaces finish level to avoid trip hazards. Clip the sheets together and back fill with your chosen gravel.

Coverage:

1.38m² (14.9 sq.ft) per pack.

Each pack contains 6 sheets - 575x400 mm (23"x16")

1 pack will surface a pathway 1.7m long x 0.8m wide, or 1.2m long x 1.15m wide without the need to cut any sheets.

1 ton of 6-8 mm (1/4"-5/16") gravel laid at 25 mm (1") depth (18 mm (3/4") in the grid and 7 mm (1/4") over the grid) will cover approximately 35m²(377 sq.ft).

Environmentally Friendly: Completely porous and SUDS compliant (Sustainable Urban Drainage System).

Perfect For: Pathways, patios, green house floors etc.

Load Bearing: 40 tons/m² (empty) and 150 tons/m² (filled) (or ~ 15 tons/ft²)

Suitable For: Pedestrian, bicycle, wheelchair and disabled traffic, fully ADA Compliant (Americans with Disability Act).

Sustainability: Available in 100% white virgin polypropylene.

Summary

- Huge savings on aggregates, Requires 50% less gravel than a typical gravel surface.
- Easy Do It Yourself installation
- Easy to manage sheet size.
- Easy to cut using pruning shears or heavy-duty scissors.
- The sheets are highly flexible, allowing them to bend slightly and follow the contour of the ground.
- No need for a separate weed membrane 50g/m² non-woven geotextile firmly heat welded to the underside of the grid.
- All COREgravel stabilizers have been designed for a specific task, so now you don't have to purchase a heavy duty grid capable of taking HGV traffic to create a simple pathway.



COREpath[®] Technical Data

CBR Sub-base Guide

Application Load	CBR (%) Strength of Subgrade soil (see chart below)	DoT Sub-base Thickness (mm)
Light vehicle access and pedestrian	≥6	100
	=4 <6	100
	=2 <4	135
	=1 <2	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

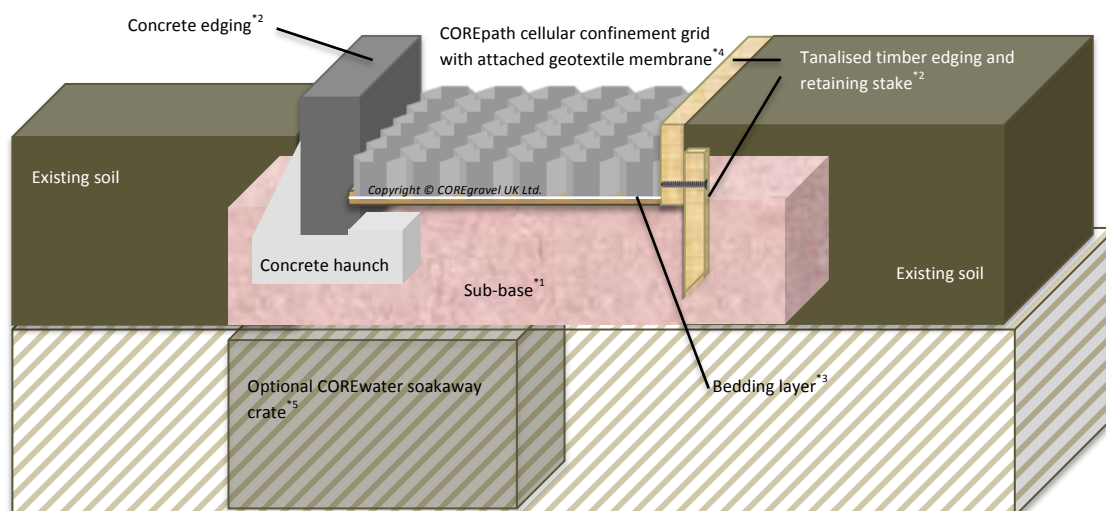
Consistency	Indicator			Strength	
	Tactile (feel)	Visual (observation)	Mechanical (test) SPT	CBR %	CU kN/m ²
Very Soft	Hand sample squeezes through fingers	Man standing will sink >75mm	<2	<1	<25
Soft	Easily moulded by finger pressure	Man walking sinks 50-70mm	2-4	Around 1	Around 25
Medium	Moulded by 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	38-18R	Geotextile Membrane	Weight = 50 g/m ² Overlap = 75mm to Female Edge
Cell Diameter/Depth	38mm/18mm (1.5"-0.7")	General Use	Pedestrian, bicycle, wheelchair
UV/Chemical Resistance	Excellent	Small Sheet Size/Area	575x400mm(23"x16")/0.23m ² (2.5 sq.ft)
Cell Wall Thickness	0.8mm (1/32")	Pack Size	6 sheets = 1.38m ² (14.9 sq.ft)
Max Weight (Filled)	Over 150 tons/m ²	Max Weight (Empty)	40 tons/m ²
Material	100% white virgin polypropylene	Interlock Mechanism	Overlapping Slot and Socket Connection

COREpath® 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 sub-base** could be DoT type 1; scalplings; crushed limestone; firm existing surface i.e. old gravel driveway, Asphalt or concrete. Sharp sand should be laid 10-20 mm (0.4"-0.8") to form a bedding layer and iron out any minor deformities in the sub-base.

SUDS compliant sub-base should contain no fines (nothing smaller than 2 mm (0.08")). 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 should be used for non SUDS compliant installs. 3-6 mm (1/8"-1/4") clean crushed aggregate should be used for a truly SUDS compliant install.

COREdrive^{*4} = The cellular confinement grid has a 50 mg porous geotextile membrane heat welded to the underside this ensures that the gravel laid in the system will not migrate into the sub-base or under the cell walls. The attached membrane assists with the overall integrity of the system; the weight of the aggregate resting on the membrane means the polypropylene grid is firmly held down and has no movement. Each individual sheet has fixings on all four sides creating a single matrix when all sheets are clipped together.

COREwater^{*5} = The soakaway crates should be wrapped in a geotextile membrane creating a void underground where the water will quickly collect then slowly infiltrate back into surrounding soil. Alternatively the crates can be wrapped in an impermeable membrane, storing the water for later use. For further information on how to install the crates please refer to the COREwater Specification sheet.

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

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CORE Landscape Products :: P.O. Box 1545 Comox, BC Canada V9M 8A2

Toll-Free :: +1.855.777.2673 (CORE) Email :: info@coregravel.com Website :: www.coregravel.ca