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Products

CORE DRIVE - Specification & Installation



CORE DRIVE 40-40

Specification & Installation

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THE PRODUCT

Our CORE DRIVE gravel stabilisation grid provides hassle-free gravel paving for all types of vehicle or pedestrian traffic with no compromise in strength and durability.

Use as part of a natural porous paving system, just add gravel to the panels of hexagon cells and you have an eco-friendly surface that costs less than asphalt, concrete, or block pavers.



USES

- ✓ Driveways, Gravel Tracks, Patios, Shed Bases, Hot Tub Bases



BENEFITS

- ✓ Keep your gravel in place and reduce gravel consumption by up to 50%
- ✓ Create a hard standing surface with the beauty of gravel
- ✓ Minimal maintenance compared to loose gravel
- ✓ No more ruts, dips or puddles
- ✓ Membrane provides effective drainage and stops weeds

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Product Data

Material	High Density Polyethylene (HDPE)
Sheet Size	1600 x 1200mm
Cell Wall Thickness	2mm
Average Coverage	13m2 per tonne
Depth of Cells	40mm (40mm width)
Aggregate Size	Up to 20mm (Max Size)
HDPE Density	0.95g/cm ³
Weight Bearing Capacity (unfilled)	90tn per m ²
Weight Bearing Capacity (filled)	450tn per m ²

Membrane

Material	Non Woven Polyester
Colour	White
Geotextile Weight	50g/m ²
Geotextile Bonding	Heat welded
Geotextile Overlap	Two sides of the grid
Tensile Strength	65 N/5cm (EN 29073/3)
Resistance to tearing	70 N (DIN 53363)

Mechanical Properties

Flexibility	High
Chemical Stability	Very High
UV Stable	Yes
Cold Temperatures	Retains flexibility

BUILT FOR THE TRADE, BY THE TRADE.

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White

Made of Virgin High Density Polyethylene and is the best choice for lighter coloured aggregates.

Grey



Made of Recycled High Density Polyethylene and is ideal for darker aggregates.

Black



Made of recycled High Density Polyethylene and is a great choice for the darkest aggregate colours.

High Quality Membrane



CORE DRIVE 40-40

Specification & Installation - New Driveway Construction

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Excavate the area for your subbase to be installed. Refer to our subbase calculation guide for depth required. Ensure to allow for 10mm sand bedding layer, depth of grid and a 10-15mm dressing of aggregate when calculating depth from surrounding surfaces. Once finished, compact and smooth out the area.



Install membrane and geogrid if required and then install a suitable edging around all open sides. This could be tanalised wood edging, block paviours, granite setts or our very own edging variations (CORE PRO EDGE shown here). Ensure to set your edging height 15-20mm higher than the grid level to prevent the dressing layer spilling out onto surrounding areas.



Cover the entire area with a 5-10mm bedding layer of sharp sand and compact. This layer will help to eliminate any minor undulations you may have in the subbase, it also helps to protect the underside of the grid from the subbase material.



Install your CORE DRIVE sheets starting from one corner and working your way out with the membrane facing down. Cut to shape using a petrol disc cutter or grinder. Please ensure to wear the necessary PPE for the equipment being used.



Fill the grid with your chosen aggregate using either a wheel barrow or direct from a truck. Ensure the truck does not drive onto the unfilled grid. CORE DRIVE is designed to be covered by a 10-15mm dressing layer of aggregate - making the grid virtually invisible.



Compact the gravel into the cells using a vibrating road plate. This makes sure that all the gravel is tightly packed into the cells provide ultimate structural integrity to the system.



Tools Required:

- Rake / Lute
- Vibrating Road Plate (compact subbase)
- Disc Cutter (to cut to shape)
- Wheelbarrow
- Shovel



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Specification & Installation - Over Existing Hard Surface



Excavate the area for your subbase to be installed. Ensure to allow for 10mm sand bedding layer, depth of grid and a 10-15mm dressing of aggregate when calculating depth from surrounding surfaces.



Repair the surface if there are any dips or pot holes with a suitable subbase material and recompact the entire area with a roller or vibrating road plate. If installing over tarmac or concrete, you may want to drill drainage holes in the surface to allow water infiltration.



This could be tanalised wood edging, block paviours, granite setts or our very own edging variations (CORE PRO EDGE shown here). Ensure to set your edging height 15-20mm higher than the grid level to prevent the dressing layer spilling out onto surrounding areas.



Cover the entire area with a 5-10mm bedding layer of sharp sand and compact. This layer will help to eliminate any minor undulations you may have in the subbase, it also helps to protect the underside of the grid from the subbase material.



Install the grid starting from one corner and working your way out with the membrane facing down. Cut to shape using a petrol disc cutter or grinder. Please ensure to wear necessary PPE for the equipment being used. Fill the grid with your chosen aggregate either using a wheelbarrow or direct from a truck.



You can compact the gravel into the cells using a vibrating road plate. This makes sure that all the gravel is tightly packed into the cells provide ultimate structural integrity to the system. If you don't have one - simply use your lute to get an even coverage and the cells will compact tightly over time.



Tools Required:

- Rake / Lute
- Disc Cutter (cut to shape)
- Wheelbarrow
- Shovel



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Applications

CORE DRIVE 40-40 is a gravel stabilisation system that has been designed to provide the ultimate gravel surfacing experiencing. Using this system when creating a new gravel driveway will allow you all of the aesthetic beauty that gravel provides - but minimises the issues that come with it. No more puddles, no more ruts, no more weeds and the gravel stays locked into the cells to create a hard standing finish. Also a great option for shed bases, hot tub bases and gravel patios due to its weight bearing capabilities.

Installation

We always recommend ensuring that the surface you lay your grid on is as smooth and level as possible so that the system sits well across the whole area. Compacting your subbase well and laying a 10-15mm layer of sharp sand under the grid system are essential to creating the perfect gravel area when using CORE DRIVE.

Storage & Handling

CORE DRIVE 40-40 sheets are securely held onto their pallet using banding and then shrink-wrapped for added protection during transport and handling. Upon delivery, use a forklift or pump truck to carefully unload the pallets from the delivery vehicle, ensuring they are on a flat and level surface. Use appropriate tools to undo the shrink wrap and break the banding - you can remove the CORE DRIVE sheets off of the pallet and carry them to the install area as they are very light.

PPE

We recommend the use of personal protective equipment (PPE) when installing CORE DRIVE, including good strong safety boots/shoes to protect the feet, protective eyewear such as safety glasses, strong gloves to protect the hands, and ear plugs or defenders if using loud cutting equipment.

Health & Safety

To comply with Health and Safety Regulations 1981, all construction sites should have a first aid box with enough equipment to cope with the number of workers on site, an Appointed Person to take charge of first-aid arrangements, and a First-Aider who has undertaken training and holds an HSE approved qualification to administer first aid. The number of first-aiders will depend on the site, and information should be clearly displayed on site telling workers the name of the Appointed Person(s) or First Aider(s) and where to find them.

Fire Protection & Stability

High-density polyethylene (HDPE) is known for its excellent fire safety characteristics. It has a high resistance to ignition and does not easily catch fire. When exposed to flames, HDPE has a self-extinguishing property, meaning it will stop burning once the ignition source is removed.

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