CORE Landscape® Products

CORE DRIVE 50-35 HD - Specification & Installation

CORE DRIVE 50-35 HD

Specification & Installation

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THE PRODUCT

CORE DRIVE 50-35 HD is commonly specified for shared driveways, or gravel areas that are going to experience higher traffic loads than a standard domestic driveway.

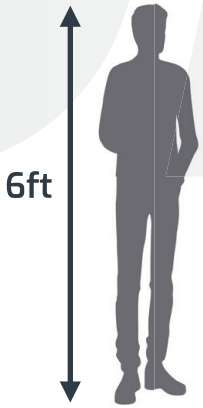
Each sheet has a clipping mechanism on all 4 sides to allow the grid to be installed on slopes up to a 12.5% gradient (1 in 8). The grid can be pinned to tolerate this level of slope.

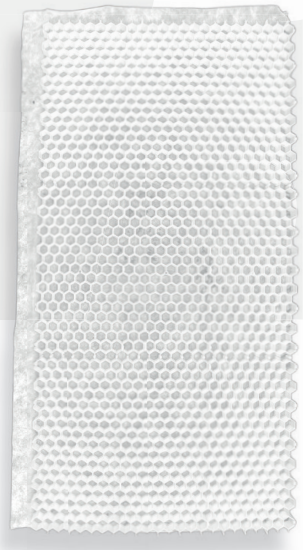
USES

✓ Driveways • Shared Driveways • Sloped Driveways • Gravel Tracks • Patios • Shed Bases • Hot Tub Bases

TECHNICAL DATA

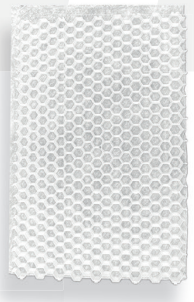
	Large Sheet	Small Sheet	Handy Pack
Sheet Size	2400 x 1150mm	1150 x 800mm	770 x 800mm (x5)
Cell Wall Thickness	2mm	2mm	2mm
Average Coverage	15-16m2 per tonne	15-16m2 per tonne	15-16m2 per tonne
Depth of Cells	35mm (50mm width)	35mm (50mm width)	35mm (50mm width)
Membrane	50gsm non-woven	50gsm non-woven	50gsm non-woven
Aggregate Size	Up to 24mm angular	Up to 24mm angular	Up to 24mm angular
Clipping Mechanism	Socket & Pin (all 4 sides)	Socket & Pin (all 4 sides)	Socket & Pin (all 4 sides)





Large Sheet

Cover larger areas above 100m2 with rapid installation. Each sheet covers 2.76m2.



Small Sheet

Perfect for areas from 20-100m2 with each sheet covering 0.92m2.

Handy Pack

Great for areas under 20m2. 3.08m2 per pack covered by 5 smaller sheets.

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GRAVEL ON SLOPES

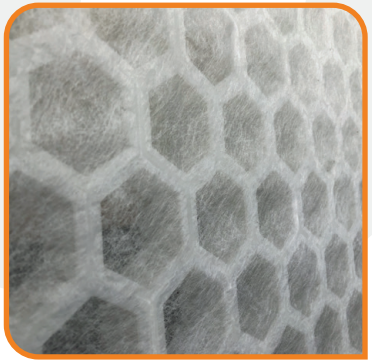
A key feature of CORE DRIVE 50-35HD is the capability to stabilize gravel on slopes up to a 12.5% gradient (1 in 8). The grid has pin holes within its design to allow for either a 150mm or 300mm pin depending on your subbase.

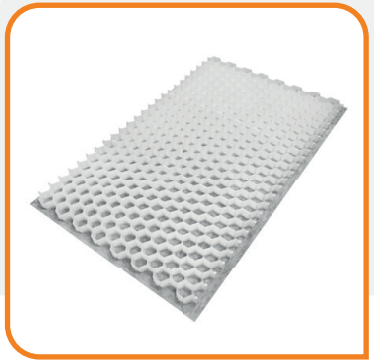
LESS GRAVEL REQUIRED

The honeycomb grid construction optimises the use of gravel. As a result it maximises cost efficiency by saving money on gravel and reducing time and labour fees.

QUALITY WEED MEMBRANE

One of the challenges of gravel surfaces is maintaining a pristine appearance over time. Weeds are often a problem and can be difficult to prevent or manage. CORE DRIVE is different because it features a high quality geo-textile membrane that's heat welded to the underside of the structure. This creates a tray for the gravel to sit in, which not only prevents weed growth but also stops it from migrating under the cell wall, which can compromise its integrity and expose the frame over time.





VARIETY OF SHEET SIZE

CORE DRIVE 50-35 HD is available in 3 sizes. The 3 options are designed to allow for the easiest possible install dependent on the size of your area. The large sheet is especially unique due to how rapidly you can cover an area - coming in as one of the largest gravel grid sheets available in the UK.

CORE DRIVE 50-35 HD

Specification & Installation - New Driveway Construction

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Excavate the area for your subbase to be installed. Ensure to allow for 10m sand bedding layer, depth of grid and the 10-15mm dressing of aggregate when calculating depth from surrounding surfaces. Once done, 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). Set edging 15-20mm below grid level to prevent gravel spilling out to 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.

Tools Required:

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

Install your CORE DRIVE sheets starting from one corner and working your way out with the membrane facing down. This particular grid has a clipping mechanism to join each sheet. 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.

Scan to Watch the Install Video

CORE DRIVE 50-35 HD

Specification & Installation - Over Existing Hard Surface

Excavate the area for your subbase to be installed. Ensure to allow for 10m sand bedding layer, depth of grid and the 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.

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.

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

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.

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Applications
CORE DRIVE 50-35 HD's enhanced load-bearing capacity allows it to tolerate heavier vehicles, making it perfect for shared car parks and driveways with higher levels of traffic compared to standard domestic use. Its exceptional durability ensures it can withstand constant use and challenging weather conditions, providing a reliable and long-lasting solution for various high-traffic areas. Whether for commercial or residential use, CORE DRIVE 50-35 HD delivers unmatched performance and stability, making it the ideal choice for achieving a robust and aesthetically pleasing surface.

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
The 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 50-35 HD, 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.

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Environmental Credentials

Virgin Polypropylene is an eco-friendly choice with several sustainable benefits. It is recyclable, reducing waste and conserving resources. Its production requires less energy, leading to lower carbon emissions. With its durability and resistance to weathering, it has a long lifespan, minimizing the need for frequent replacements and reducing environmental impact. Non-toxic and lightweight, it is safe for the environment and contributes to lower transportation costs.

Further Information

Please do not hesitate to contact us to discuss your next project. For more information on the entire CORE product line please refer to the Knowledge Centre on our website. You can find all of your downloads, install videos and case studies at www.corelp.co.uk.

CORE Landscape Products®

build **beautiful** spaces

#BuildWithCORE

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