

TOUGHEN YOUR TERRAIN



**LANDSCAPING
INFORMATION &
INSTALLATION GUIDE**



DIAMONDGRID™

FOR A SOLID SURFACE ANYWHERE

ABOUT DIAMOND GRID

LANDSCAPING

Reduce infrastructure costs and eliminate on-going maintenance expenses.

Diamond Grid surface stabilisation systems are successfully used by leading landscaping companies throughout the world to cut costs on surfacing roads, shed floors and any other areas where a solid surface is required for all types of vehicles and pedestrians.

Diamond Grids also eliminate the need for on-going maintenance on unsurfaced areas that traditionally require machinery for repairs and maintenance on a regular basis.



1000


T/M2 FILLED
CRUSH RESISTANCE

300

T/M2 EMPTY
CRUSH RESISTANCE

100

PERCENT RECYCLED
POLYPROPYLENE



"OVER THE YEARS OUR YARD IN WINTER TURNS INTO A MUD PIT. THE POOLING OF WATER COMBINED WITH MACHINERY CONSTANTLY CHURNING UP THE GROUND CREATES EXCESSIVE MUD, INHIBITING OUR OPERATIONS. WE SPEND HOURS NOT ONLY CLEANING MUD ETC. OFF ALL EQUIPMENT BUT ALSO FOUND WE WERE WASTING TIME ON CLEANING OUR BOOTS, VEHICLES AND OFFICES. WE RECENTLY INSTALLED DIAMOND GRID AND HAVE FOUND THAT EVEN WITH MACHINERY EXCEEDING 50 TONNE, TRACKING AND TURNING HAS NOT AFFECTED THE DURABILITY OR RELIABILITY OF THIS PRODUCT. MORE IMPORTANTLY – NO MUD PIT. LOADEX HIRE WOULD HAPPILY RECOMMEND DIAMOND GRID AND ENDORSES THIS PRODUCT."

LOADEX HIRE

MANAGEMENT TEAM,
LOADEX HIRE,
WEST AUSTRALIA

"ON A GOLF COURSE, WE ARE ALWAYS LOOKING FOR QUALITY PRODUCTS TO SAVE US TIME AND MONEY. BY INSTALLING DIAMOND GRID ON A STEEP GRAVEL PATHWAY WE HAVE ACHIEVED EVERYTHING AND MORE. IT NOT ONLY IS VERY FUNCTIONAL, IT ALSO LOOKS GREAT! WE HAVE HAD SEVERAL RAIN EVENTS SINCE INSTALLING DIAMOND GRID AND HAVEN'T HAD TO FIX ANY WASHOUTS AT ALL, SAVING US A HUGE AMOUNT OF TIME THAT WAS PREVIOUSLY WASTED. WITH THE GRID ABSORBING ALL THE RAIN AND IRRIGATION YOU DON'T END UP WITH WET AREAS AT THE END OF YOUR PATHWAYS, ALLOWING US TO IRRIGATE PROPERLY AND HANDLE ANY TYPE OF RAIN EVENT. THIS PRODUCT HAS PROVEN TO BE A HUGE ASSET TO OUR GOLF COURSE AND LOOK FORWARD TO INSTALLING MORE IN THE NEAR FUTURE"



PAT WILSON,
COURSE SUPERINTENDENT,
PAMBULA-MERIMBULA
GOLF CLUB

APPLICATIONS

PATHWAYS ▶

Popular with both developers and homeowners, Diamond Grid can be filled with natural earth, road base or used in conjunction with other landscape products and materials to give a practical and purpose built appearance, whilst keeping traffic to formalised walkways.

◀ SHED FLOORS

Much cheaper than concrete, Diamond Grid is a perfect solution for shed flooring. Holding up to 400 tonne per square metre, the grids are ideal for storage of equipment and vehicles. Diamond Grid's easy locking system is simple to install and can be moved if you decide to re-locate your shed.

DRIVEWAYS ▶

Diamond Grid can be used as a top surface on driveways to prevent pot holes, corrugation and erosion on road edges. The grids reduce downtime, and help reduce labour and machinery costs compared to using concrete.



◀ MOUNTAIN BIKE PATHS

Diamond Grid is a cost effective way to deal with soft spots and drainage issues on walking or mountain bike tracks, where continual heavy wear requires ongoing maintenance. On steep slopes that are prone to erosion or have experienced excavation, Diamond Grid can be adopted to retain soil and can integrate with turfing and other erosion control products.



GOLF COURSES ▶

Diamond Grid provides a water permeable paving solution for stabilising grass and preventing erosion from any trafficked area. The grid systems can be seeded with grass, or filled with gravel to provide a free draining system, saving time and money on ongoing green keeping and maintenance costs.



◀ CAR PARKS

Diamond Grid allows you to build car parks that are attractive, environmentally friendly, economical and durable. They are easily laid without framework and do not crack like concrete or paving over time.



DRAINS ►

Deep drains and trenches are protected by the grids, which support the structure of the drain and allow the water to flow through without washing away the sides of the drain. Diamond Grid also supports plant root structures while still allowing water to flow through.



◀ BOAT RAMPS

Providing the necessary traction and support, Diamond Grid is the perfect solution for any type of boat ramps. Re-usable and re-locatable you will always have an ideal entry point for your boat trailers and vehicles without the worry of getting bogged or slipping.

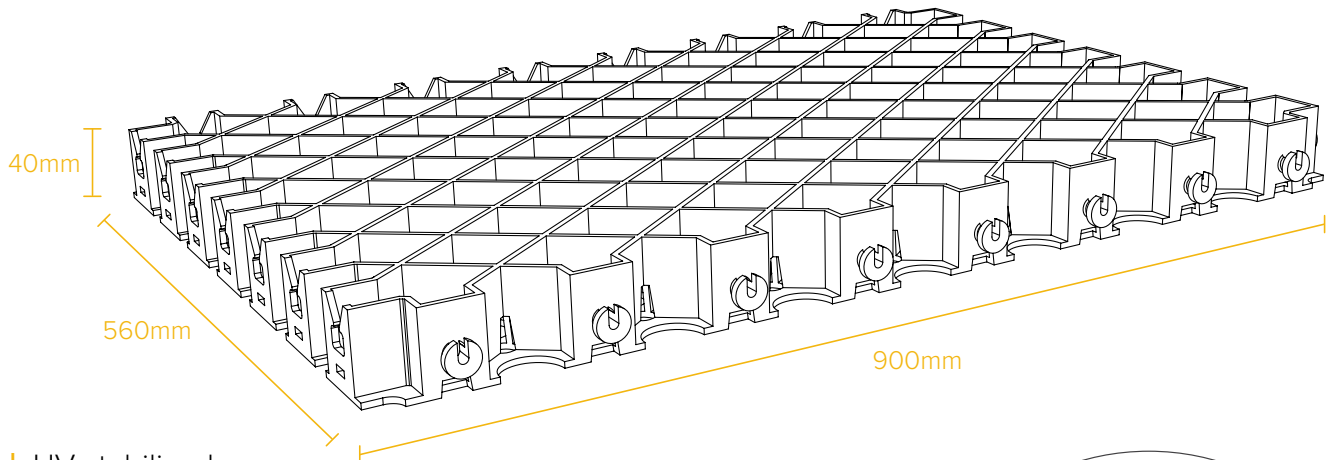


CONCRETE CAR PORTS ►

Concrete costs can be reduced by up to 60% when using Diamond Grid as the reinforcement structure for resurfacing your carport or driveway. A concrete depth of only 40mm is required to achieve a certified compression strength test of 25 MPa, providing considerable savings on concrete materials and labour.

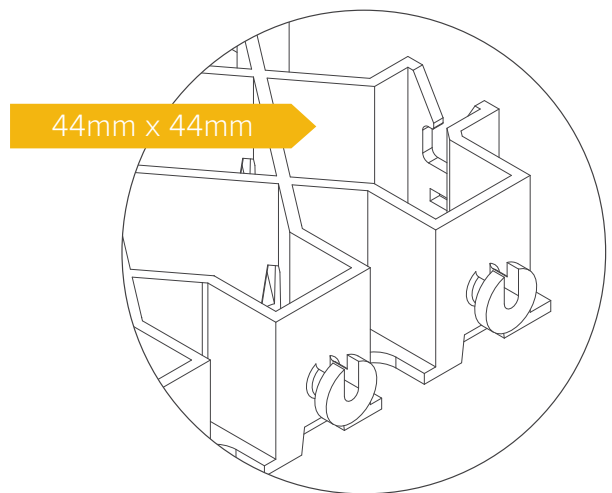
SPECIFICATIONS

900mm x 560mm x 40mm



- | UV stabilised
- | Relocatable
- | Do-It-Yourself
- | Interlocking system

Measurements	900mm W x 560mm L x 40mm H
Crush resistance (filled with gravel/ road base)	1000+ tonne m2*
Crush resistance (empty grid)	300 tonne m2*
Weight per grid	3.2kg
Fill ratio per grid	1 cubic metre of fill per 25sqm
Permeability	Up to 96%
Fill	Road base, gravel, pebbles, grass, soil, concrete, bitumen
Installation	Visit www.diamondgrid.com or see page 11.



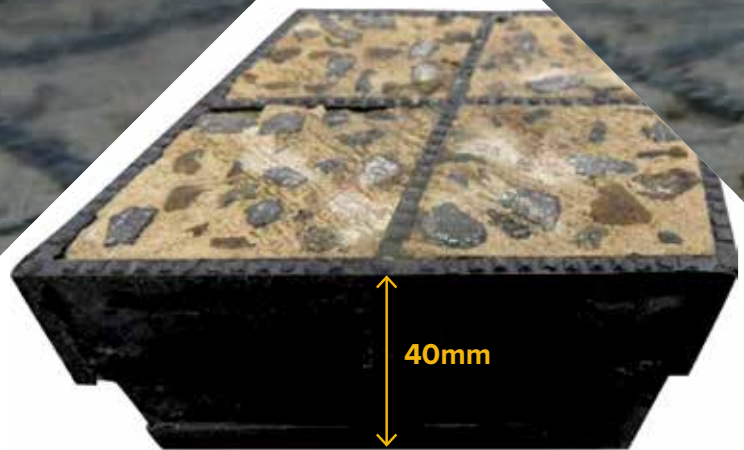
The Diamond Grid interlocking system is robust and easy to install.

Our classic grid size is suitable for most rural and domestic applications. Great for smaller surface areas that require stabilisation and reinforcement. Highly recommended for feed & water troughs, stable floors, muddy areas, day yards, pathways, drains, driveways, golf cart tracks, boat ramps and anywhere needing toughening up on your property or workplace.



Made from 100% recycled, UV treated polypropylene, Diamond Grid is ecologically friendly and highly durable. The product has been load tested by the Facility of Engineering and Surveying Centre of Excellence in Engineered Fibre Composites, University of Southern Queensland and found to withstand loads in excess of 280 tonnes per square meter when empty or over 1000+ tonnes crush resistance per m/2 when grids are filled.

CONCRETE REINFORCEMENT.....



COMPRESSIVE STRENGTH TESTING*

AVERAGE COMPRESSIVE
STRENGTH OF ONLY
4 GRID CELLS
– 25 MPa

SAVE UP TO

60%

ON THE COST
OF CONCRETE
SLABS



* Testing carried
out by Australian
Laboratory
Services



Concrete costs can be reduced by up to **60 percent** when using Diamond Grid as the reinforcement structure, as concrete depth required is only 40mm, considerable savings can be made on concrete requirements and labour.



FILL OPTIONS

◀ ROAD BASE

10mm ROCK ▶

◀ BITUMEN

CONCRETE ▶

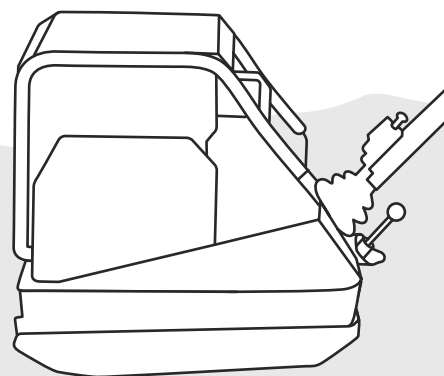
◀ 14mm ROCK

SAND ▶

BASIC INSTALL GUIDE

APPLICATIONS:

AIR STRIPS
ARENAS
BIKE TRACK
BOAT RAMPS
CAR PARKS
CATTLE YARDS
CONCRETE CAR PORT
CREEK CROSSINGS
DAIRY FARM LANEWAYS
DAY YARDS
DRAINS
DRIVEWAYS
FEED AND WATER TROUGHS
FIRE TRAILS
GOLF CART TRACKS
HARDSTANDS
HAUL ROADS
HOT HOUSE FLOORS
HELIPADS
MINE ACCESS ROADS
MINE CAMP PATHWAYS
MINE PLANT PATHS
MUDDY ROADS
PATHWAYS
Paddock SHELTERS
SHED FLOORS
STABLE FLOORS
WORKSHOP FLOORS



MINIMAL BASE PREP

- 1 USING A GRADER OR A BOBCAT AND SPREADER BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- 2 LAY GEO FABRIC OVER THE LEVELLED AREA.
- 3 IF THE SITE IS STILL UNEVEN, 10MM OF CRUSHED 5MM MINUS ROCK AND FINES CAN BE SPREAD AS A BEDDING.
- 4 LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH THE MALE LUGS FACING OUTWARDS ON BOTH MALE SIDES.
- 5 FILL THE DIAMOND GRID WITH A BOBCAT AND SPREADER BAR OR SOMETHING SIMILAR AND YOUR CHOICE OF MATERIAL*.

MEDIUM BASE PREP

- 1 LAY GEO FABRIC OVER THE AREA WHERE THE GRIDS ARE GOING TO BE LAID.
- 2 COVER THE GEO FABRIC WITH ROAD BASE AND COMPACT TO A LEVEL 40MM BELOW FINISH HEIGHT.
- 3 COMPACT ROAD BASE WITH ROLLER OR VIBRATING PLATE.
- 4 USING A GRADER OR A BOBCAT AND SPREADER BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- 5 IF THE SITE IS STILL UNEVEN, 10MM OF CRUSHED 5MM MINUS ROCK AND FINES CAN BE SPREAD AS A BEDDING.
- 6 LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH THE MALE LUGS FACING OUTWARDS ON BOTH MALE SIDES.
- 7 FILL THE DIAMOND GRID WITH A BOBCAT AND SPREADER BAR OR SOMETHING SIMILAR AND YOUR CHOICE OF MATERIAL*.

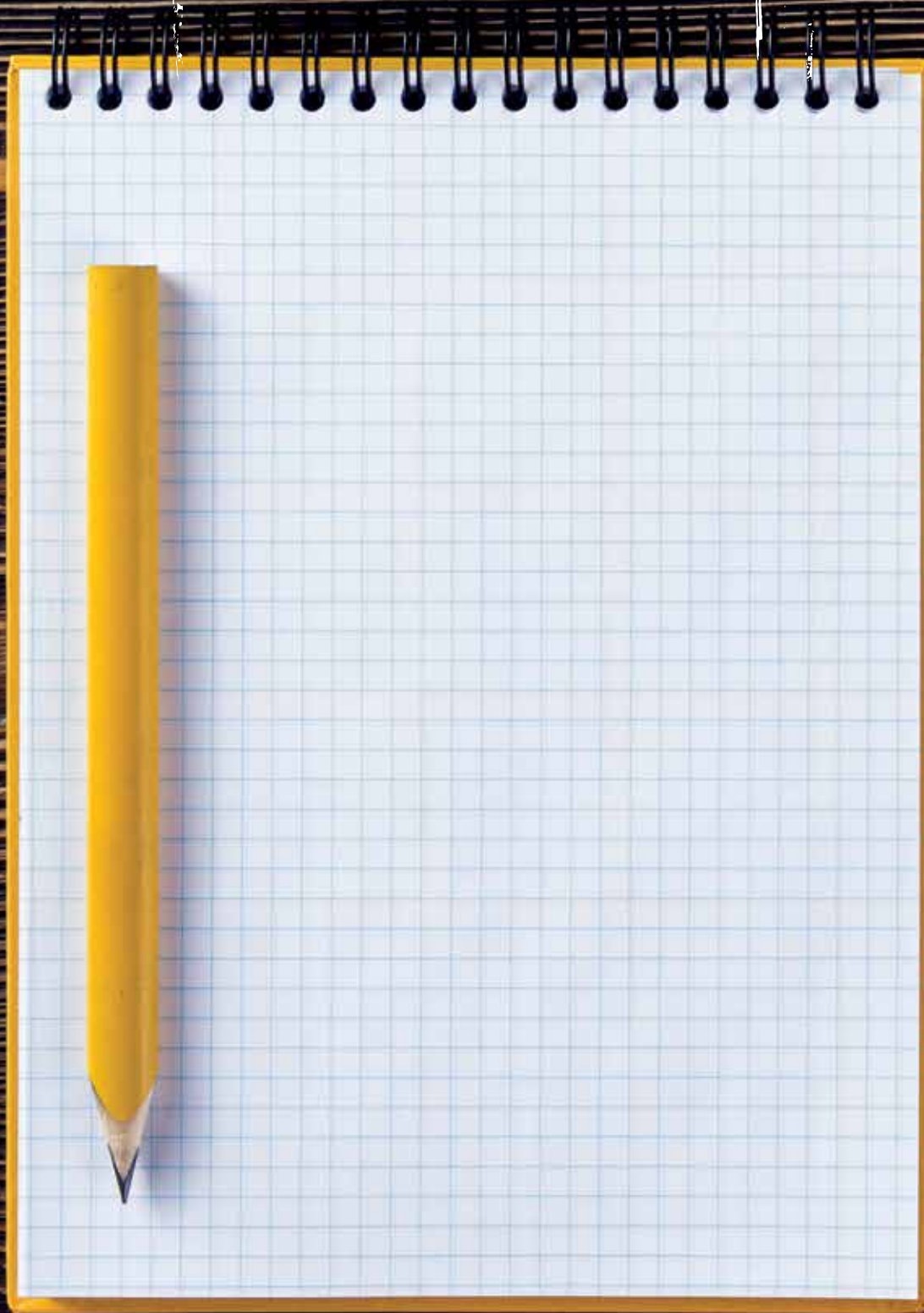
EXCAVATION AND MAJOR BASE PREP

- 1 EXCAVATE SITE TO A DEPTH OF 200-350MM DEPENDING ON THE CONSISTENCY OF THE SUB GRADE.
- 2 LAY GEO FABRIC OVER THE AREA WHERE THE GRIDS ARE GOING TO BE LAID.
- 3 COVER THE GEO FABRIC WITH ROAD BASE AND COMPACT TO A LEVEL 40MM BELOW FINISH HEIGHT.
- 4 COMPACT ROAD BASE WITH ROLLER OR VIBRATING PLATE.
- 5 USING A GRADER OR A BOBCAT AND SPREADER BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
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Galahad Geosystems makes no representations or warranties in respect of the suitability of the Diamond Grid product to any customers individual applications. The information in this guide is general only and customers should seek advice prior to commencing installation to ensure that the conditions of their project are catered to.

Galahad Geosystems accepts no liability where damage is caused to the Diamond Grid due to a failure to seek appropriate installation advice prior to commencing the project.



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www.diamondgrid.com



DIAMONDGRID™

Manufactured in ISO 9001:2008 Certified Manufacturing Plants. *Patent pending.