TOUGHEN YOUR TERRAIN



CIVIL & MINING INFORMATION & INSTALLATION GUIDE



FOR A SOLID SURFACE ANYWHERE

ABOUT DIAMOND GRID

MINING AND CIVIL

Reduce infrastructure costs and eliminate on-going maintenance expenses

Diamond Grid surface stabilization systems are successfully used by leading Mining 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.

Diamond Grid also eliminates the need for on-going maintenance on unsurfaced roads that traditionally require machinery for road repairs on a regular basis.

100+

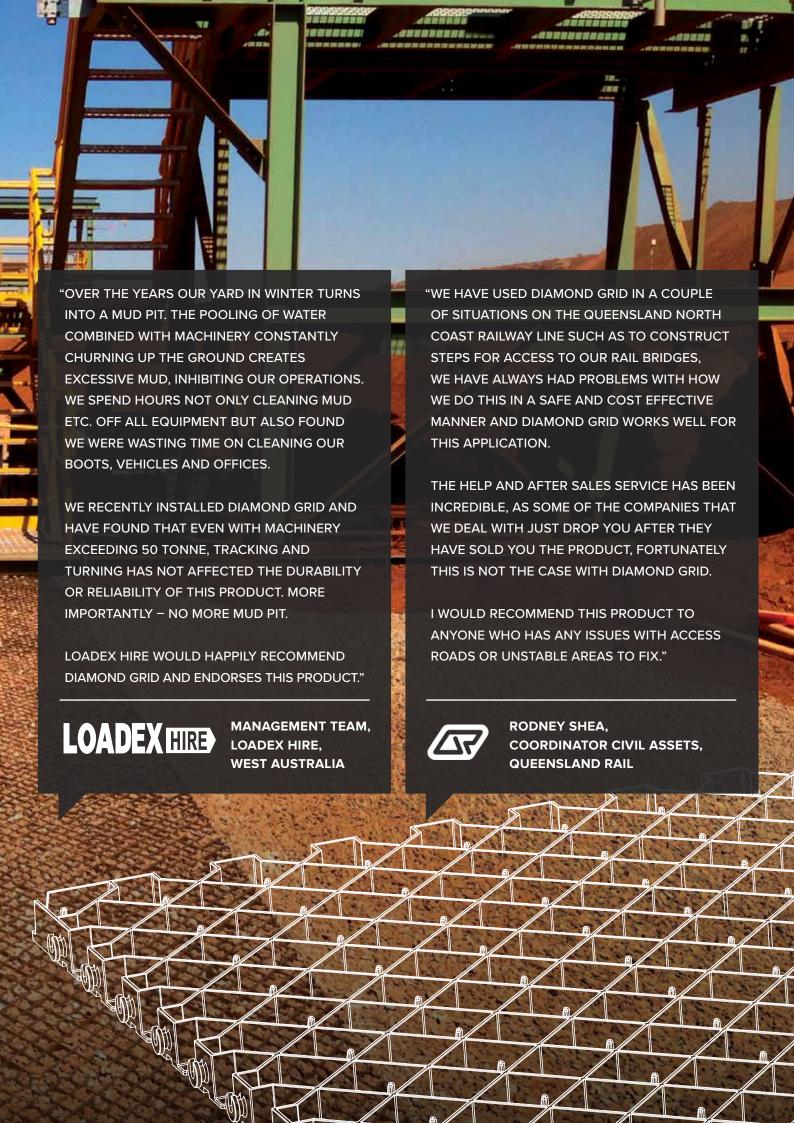
TONS/SQFT FILLED CRUSH RESISTANCE

30

TONS/SQFT EMPTY
CRUSH RESISTANCE

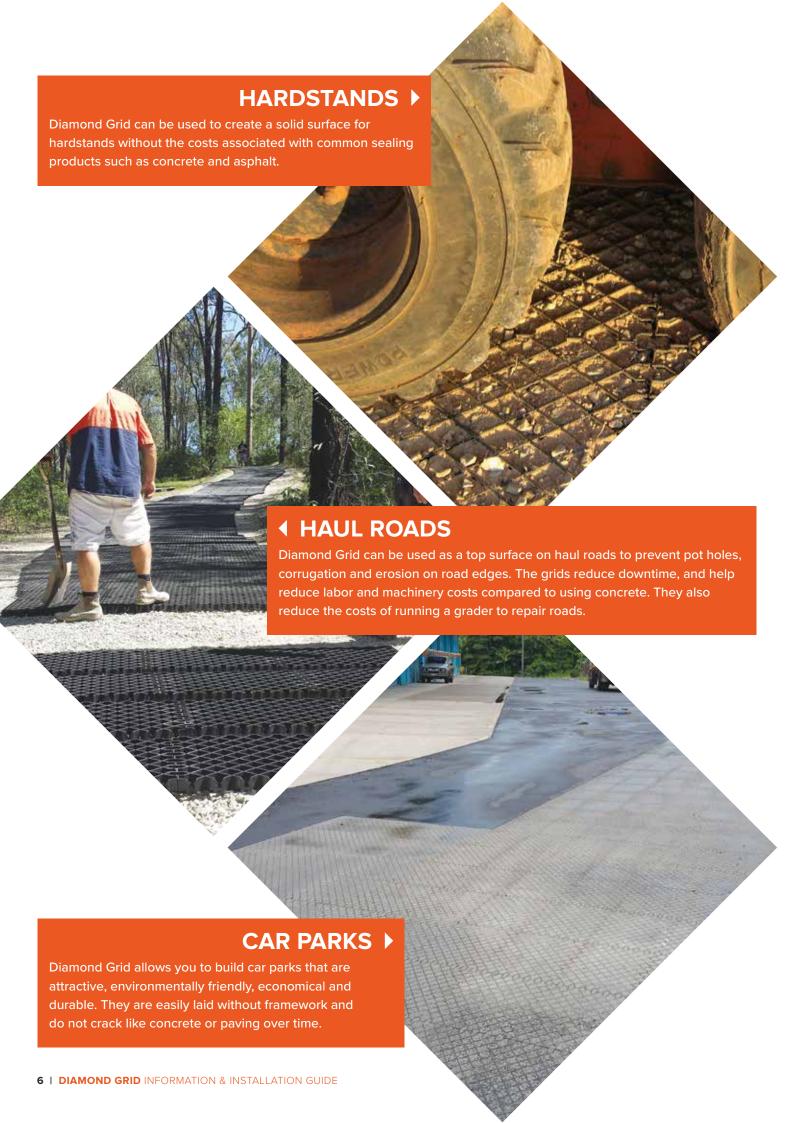
100%

RECYCLED POLYPROPYLENE



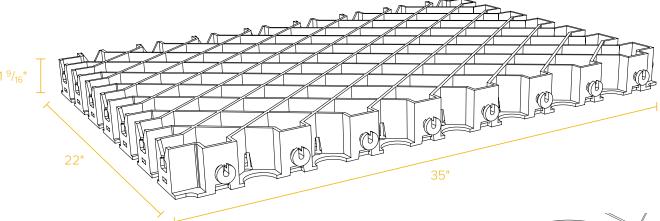






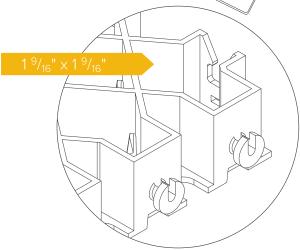
SPECIFICATIONS

35" x 22" x 1 ⁹/₁₆"



- **I** UV stabilized
- Relocatable
- Do-lt-Yourself
- Interlocking system

Measurements	35" W x 22" L x 1 ⁹ / ₁₆ " H
Crush resistance (filled with gravel/ road base)	100+ tons sqft filled*
Crush resistance (empty grid)	30 tons sqft empty*
Weight per grid	7.05lbs
Fill ratio per grid	1 cubic yard of fill per 207.9 sqft
Permeability	Up to 96%
Fill	Road base, gravel, pebbles, grass, soil, concrete, asphalt
Installation	Visit www.diamondgrid.com



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

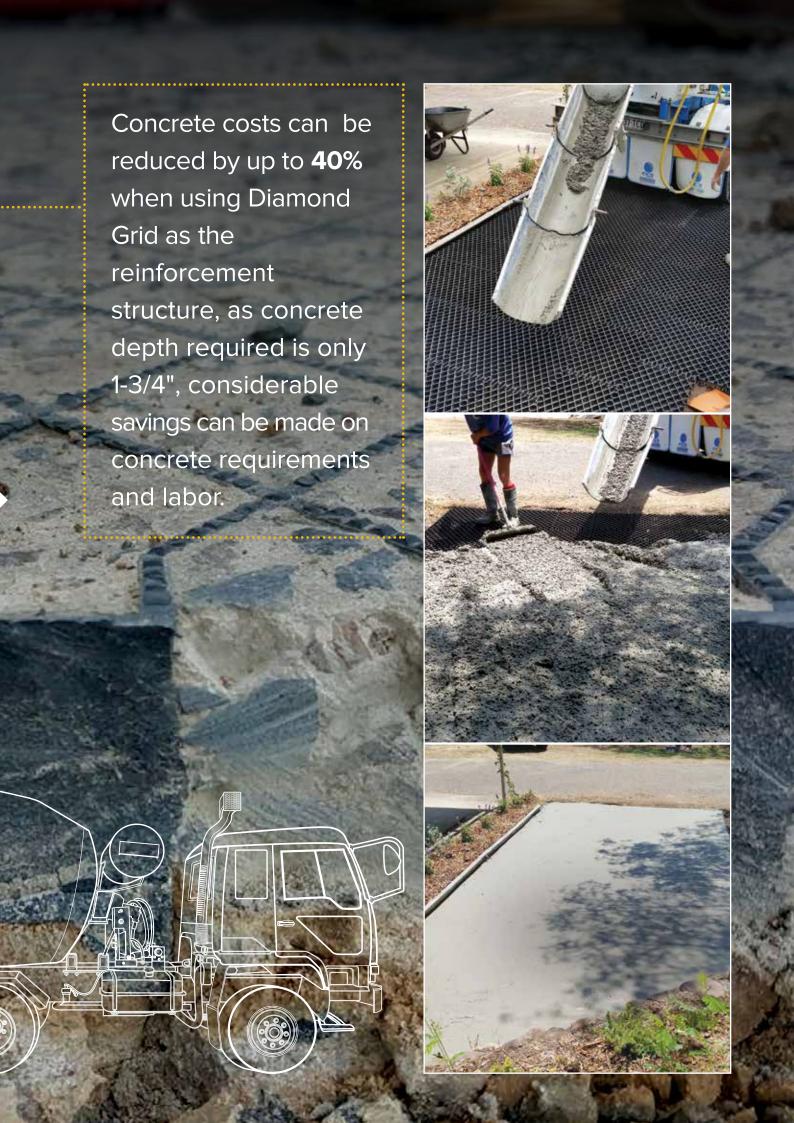
Our classic grid size is suitable for most rural and domestic applications. Great for smaller surface areas that require stabilization and reinforcement. Highly recommended for feed & water troughs, stable floors, muddy areas, day yards. pathways, drains, driveways, golf cart tracks, boat ramps and anywhere 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 30 tons per square foot when empty or over 100+ tons crush resistance per square foot when grids are filled.





CASE STUDIES

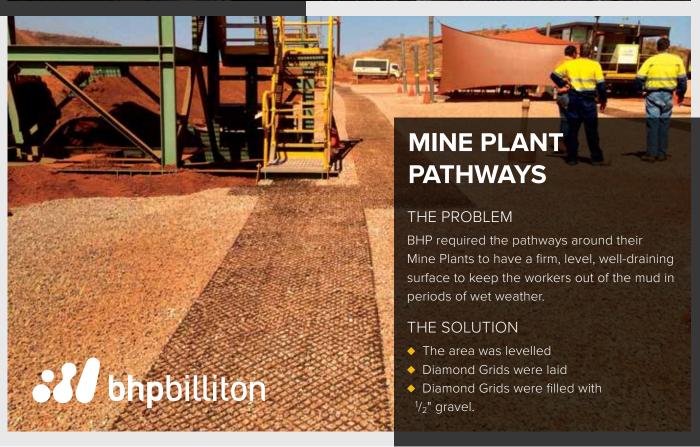
THE PROBLEM

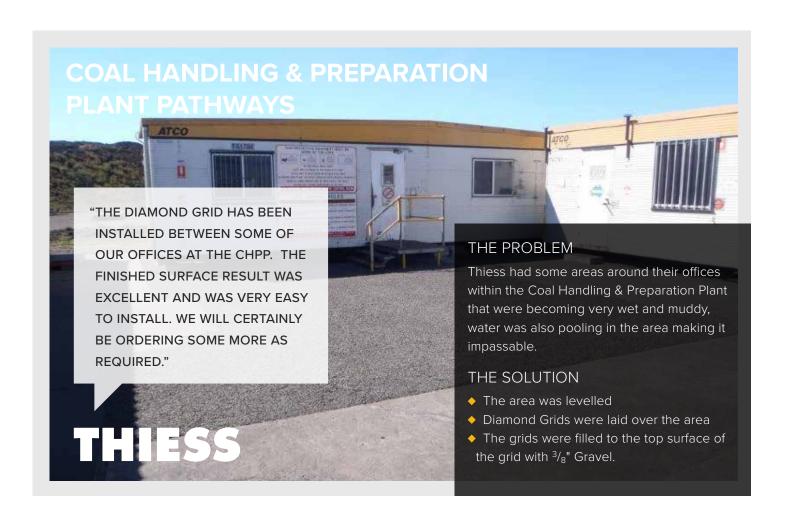
BHP had issues with access roads becoming unpassable during wet weather and in the period after the wet weather due to the road base surface always washing away. This was creating direct costs of on-going maintenance and costs associated with not being able to access their exploration sites until the roads are repaired again.

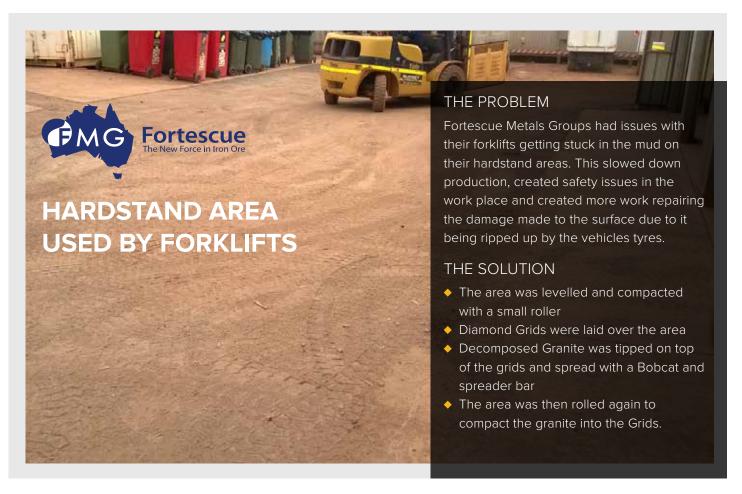
THE SOLUTION

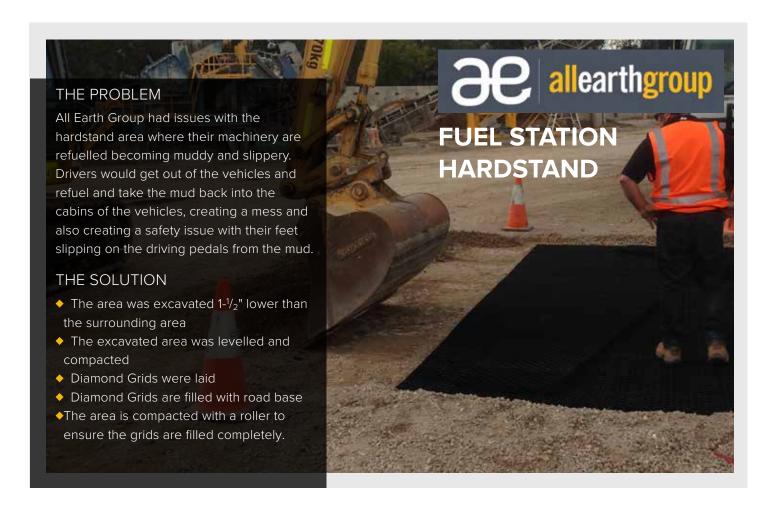
- The existing base was levelled
- Geofabric was laid over the base area where the grids were going to be laid, creating a barrier between the base and the top layer
- Diamond Grid was laid on the Geofabric
- Crushed Sandstone was spread
- The crushed sandstone was then spread into the grids and compacted with a roller.

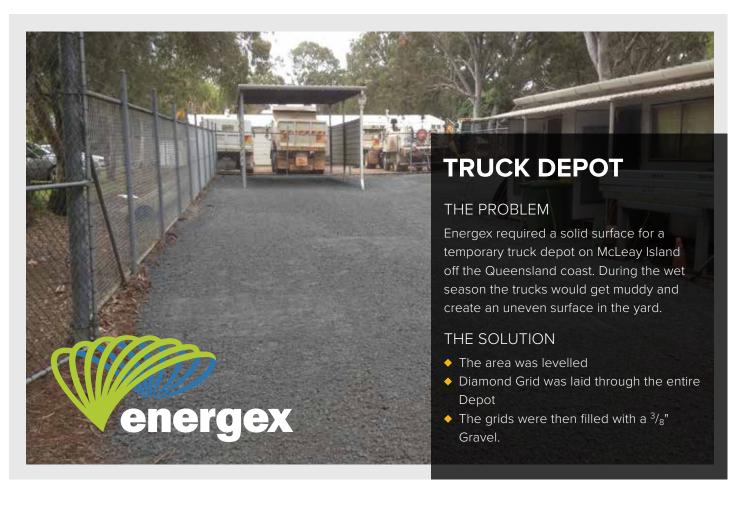


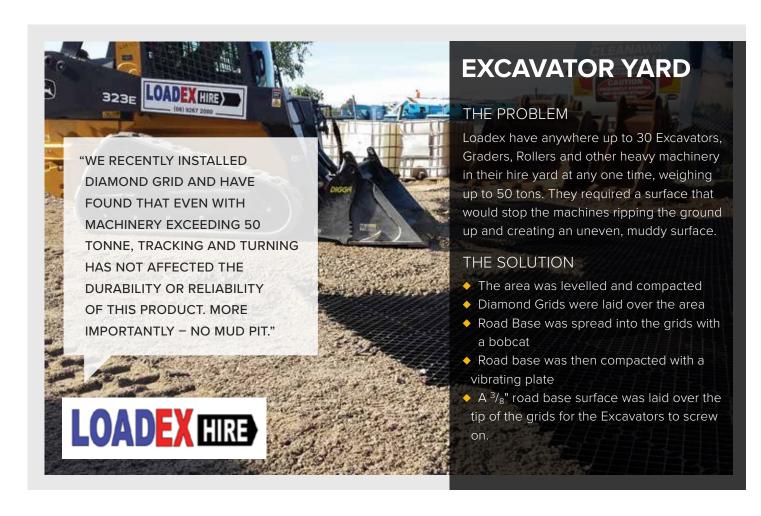


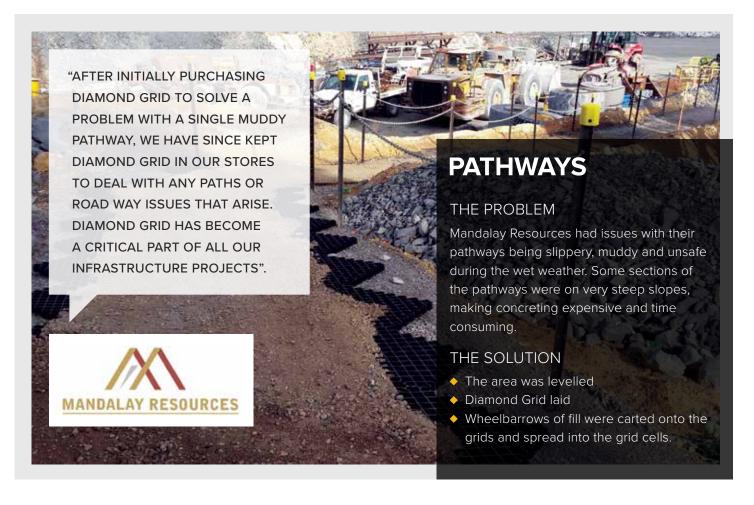














BASIC INSTALL GUIDE

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

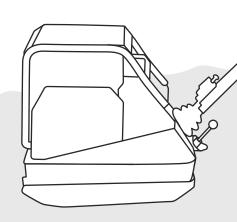
PATHWAYS

PADDOCK SHELTERS

SHED FLOORS

STABLE FLOORS

WORKSHOP FLOORS



MINIMAL **BASE PREP**

- USING A GRADER OR A **BOBCAT AND SPREADER** BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- LAY GEO FABRIC OVER THE LEVELLED AREA.
- IF THE SITE IS STILL UNEVEN, 1/2 INCH OF CRUSHED 1/4 INCH 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.
- FILL THE DIAMOND GRID WITH A BOBCAT AND SPREADER BAR OR SOMETHING SIMILAR AND YOUR CHOICE OF MATERIAL*.



MEDIUM BASE PREP

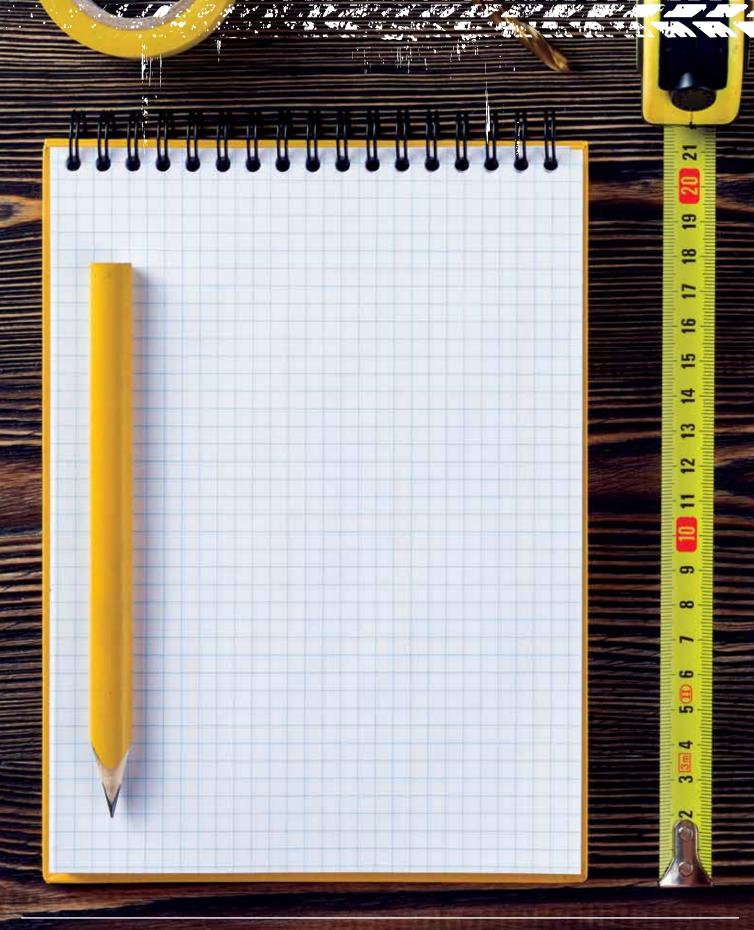
- USING A GRADER OR A **BOBCAT AND SPREADER** BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- LAY GEO FABRIC OVER THE AREA WHERE THE GRIDS ARE GOING TO BE LAID. COVER THE GEO FABROC WITH ROAD BASE WITH **ROLLER OR VIBRATING** PLATE.
- COMPACT ROAD BASE WITH **ROLLER OR VIBRATING** PLATE.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

EXCAVATION AND MAJOR BASE PREP

- EXCAVATE SITE TO A DEPTH OF 8-14 INCHES DEPENDING ON THE CONSISTENCY OF THE SUB GRADE.
- LAY GEO FABRIC OVER THE AREA WHERE THE GRIDS ARE GOING TO BE LAID.
- COVER THE GEO FABRIC WITH ROAD BASE AND COMPACT TO A LEVEL 40MM BELOW FINISH HEIGHT.
- COMPACT ROAD BASE WITH ROLLER OR VIBRATING PLATE.
- USING A GRADER OR A **BOBCAT AND SPREADER** BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- IF THE SITE IS STILL UNEVEN, 1/2 INCH OF CRUSHED 1/4 INCH MINUS ROCK AND FINES CAN BE SPREAD AS A BEDDING.
- LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH THE MALE LUGS FACING OUTWARDS ON BOTH MALE SIDES.
- FILL THE DIAMOND **GRID WITH A BOBCAT** AND SPREADER BAR OR SOMETHING SIMILAR AND YOUR CHOICE OF MATERIAL*.

Diamond Grid Pty Ltd 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.







USA HOUSTON, TX 833-422-2002 kym@orrocktrading.com

www.orrocktrading.com

