

TOUGHEN YOUR TERRAIN



RURAL
INFORMATION &
INSTALLATION GUIDE



DIAMONDGRID™

FOR A SOLID SURFACE ANYWHERE

ABOUT DIAMOND GRID



RURAL

Diamond Grid literally toughens your rural terrain by eliminating muddy areas on your property. Suitable for driveways, feed & water troughs, stable floors, muddy areas, arenas, shed floors and day yards. Diamond Grid reduces infrastructure costs and eliminates ongoing maintenance expenses.

- ◆ Save up to 40% on the cost of concrete and asphalt surfaces
- ◆ Resolve problems with muddy areas on farms that slow down production and create extra costs
- ◆ Cost saving alternative to traditional surfaces such as concrete, asphalt, paving, etc.
- ◆ DIY installation allows quick install without having to rely on contractors
- ◆ Used throughout Australia, USA, Latin America, Mexico and Canada by leading thoroughbred studs, cattle stations/ranches, National Parks, commercial racecourses, export cattle yards, hobby farmers, commercial and private equestrian centers and more.

100+

TONS/SQFT FILLED
CRUSH RESISTANCE

30

TONS/SQFT EMPTY
CRUSH RESISTANCE

100%

RECYCLED
POLYPROPYLENE



“DIAMOND GRID IS AN EASY SOLUTION AND THEY SAVED US OVER \$300 PER TROUGH COMPARED TO CEMENTING THE PADS. AND IF WE EVER NEED TO MOVE A TROUGH, WE CAN PULL THE GRIDS UP AND MOVE THEM TO THE NEXT SITE.”



CSIRO ANIMAL, FOOD AND
HEALTH SCIENCES, QLD

“WE’VE FOUND DIAMOND GRID TO BE GREAT UNDERFOOT FOR THE BULLS IN THE FEED PADS. WE FOUND THE BULLS DIDN’T GET SORE FEET AND IT IS BETTER UNDERFOOT THAN CONCRETE, EASY TO INSTALL AND VERY COST EFFICIENT.”



ANVIL ANGUS FROM
ACHERON, VIC

APPLICATIONS

HORSE WALKER ▶

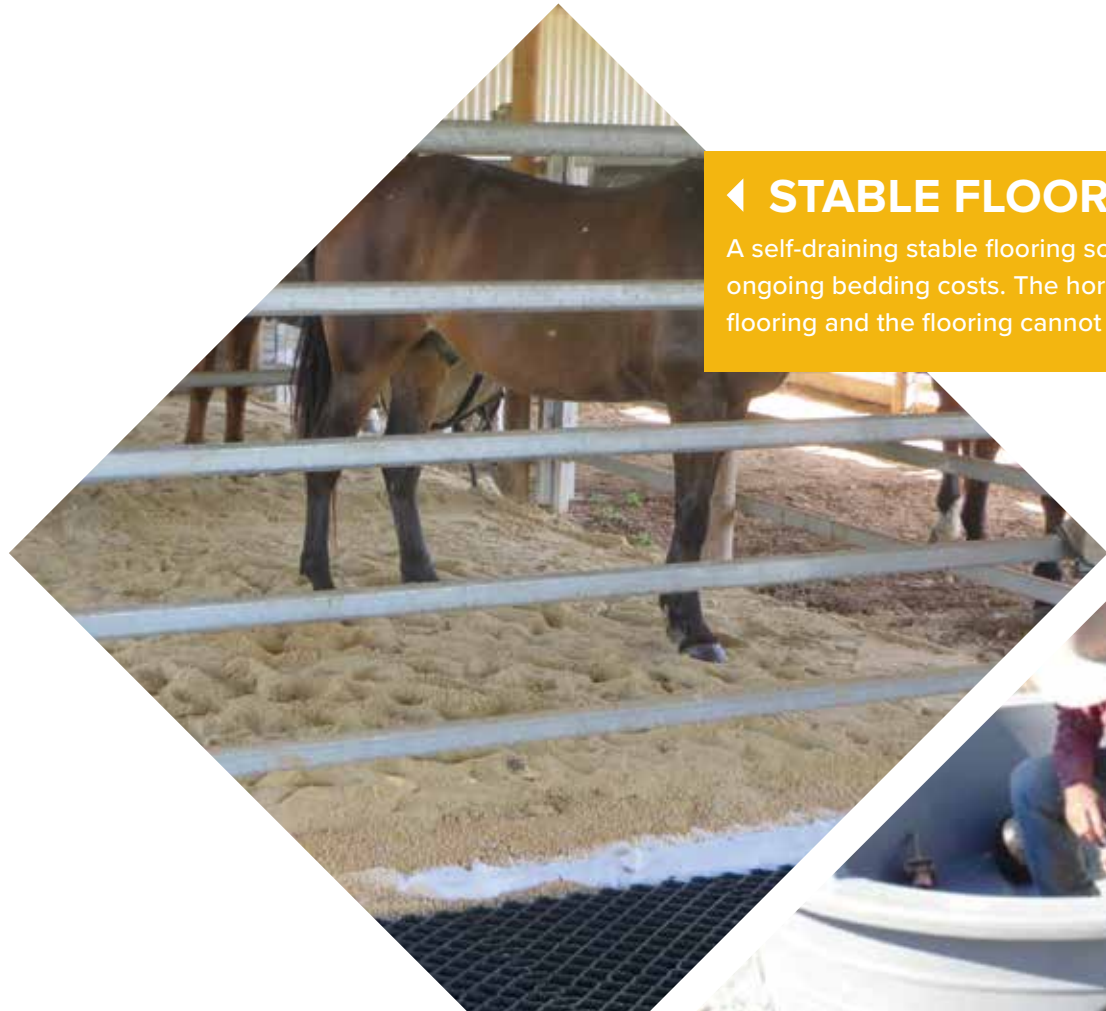
End mud and rutting problems by increasing soil stability and improving drainage. Diamond Grid stabilizes the ground to give better traction while offering superior impact resistance. Fill with wide range of materials (e.g. sand, gravel, soil and grass).

◀ SHED FLOORS

Much cheaper than concrete, Diamond Grid is a perfect solution for shed flooring. 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.

CATTLE YARDS ▶

Diamond Grid can be used to resurface a whole cattle yard, or just the muddy corners and gateways. The most common process with cattle yards is to fill the grids with 1/4" drainage gravel and then cover with sand or saw dust.



◀ STABLE FLOORS

A self-draining stable flooring solution that reduces your ongoing bedding costs. The horses cannot dig holes in the flooring and the flooring cannot turn to mud.



FEED & WATER TROUGHS ▶

The areas around water and feed troughs are always wet and muddy and Diamond Grid solves the problem by creating a well-drained solid surface for both horse and human.



◀ CREEK CROSSINGS

Installing Diamond Grid over creek crossings stops the roadbase and gravel from eroding away, creating a permanent solution to crossing for trucks and other vehicles.

DAY YARDS ▶

Diamond Grid can be used to resurface a whole paddock or yard, or just the muddy corners and gateways. The most common process with day yards is to fill the grids with 1/4" drainage gravel and then cover with saw dust or sand.

◀ DRIVEWAYS

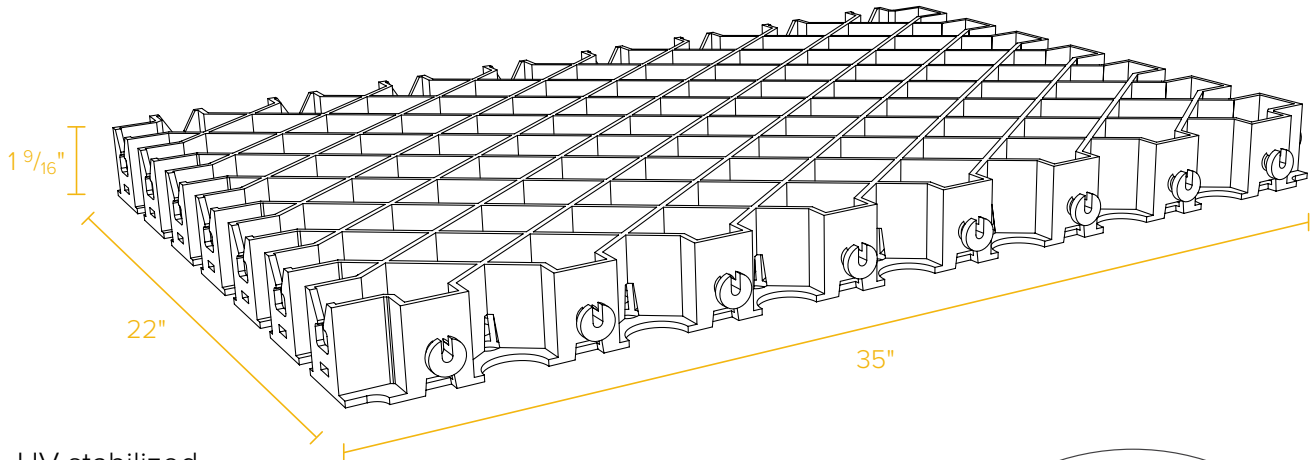
The unique design of Diamond Grid allows you to build attractive driveways with decorative pebbles by stabilizing the fill so that it does not migrate, even in areas subject to constant traffic or repeat wheel tracking and turning. The product is also effective in ensuring that different fills do not mix together, erode or wash away.

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. The grids are also suitable for shallow drains and trenches which are covered with grasses and small plants. The grids support the root structures while still effectively allowing the water to flow through..

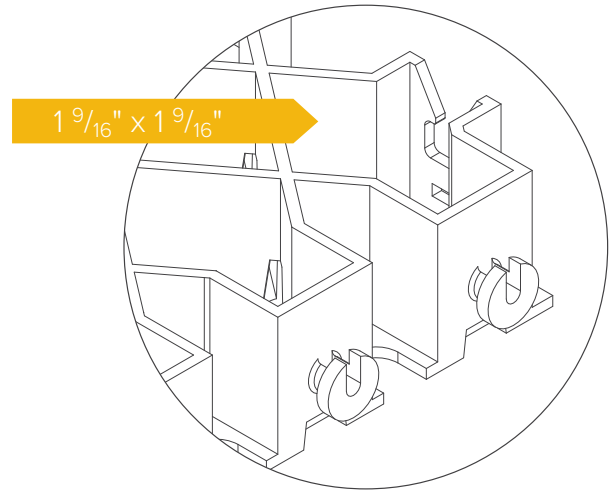
SPECIFICATIONS

35" x 22" x 1 9/16"



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

Measurements	35" W x 22" L x 1 9/16" H
Crush resistance (filled with gravel/road base)	100+ tons/sq ft filled m2*
Crush resistance (empty grid)	30 tons/sq ft empty*
Weight per grid	7.05lbs
Fill ratio per grid	1 cubic yard of fill per 207.9 sq ft
Permeability	Up to 96%
Fill	Road base, gravel, pebbles, grass, soil, concrete, asphalt
Installation	Visit www.diamondgrid.com



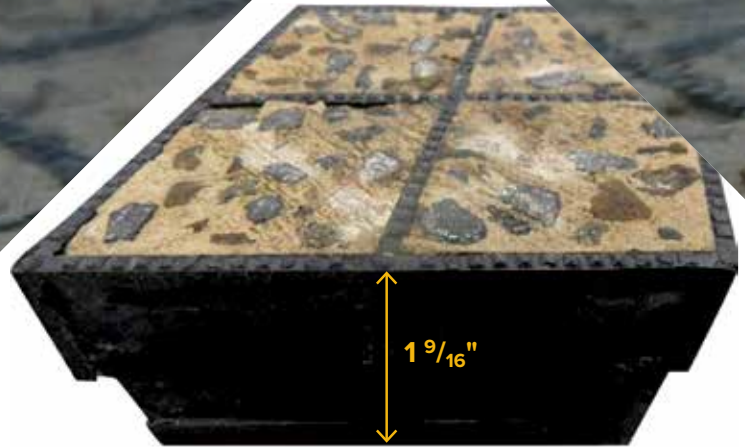
The Diamond Grid interlocking system is robust and easy to install.

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.

CONCRETE REINFORCEMENT.....



COMPRESSIVE STRENGTH TESTING*

AVERAGE COMPRESSIVE
STRENGTH OF ONLY
4 GRID CELLS
3,625 PSI

SAVE UP TO

40%

ON THE COST
OF CONCRETE
SLABS



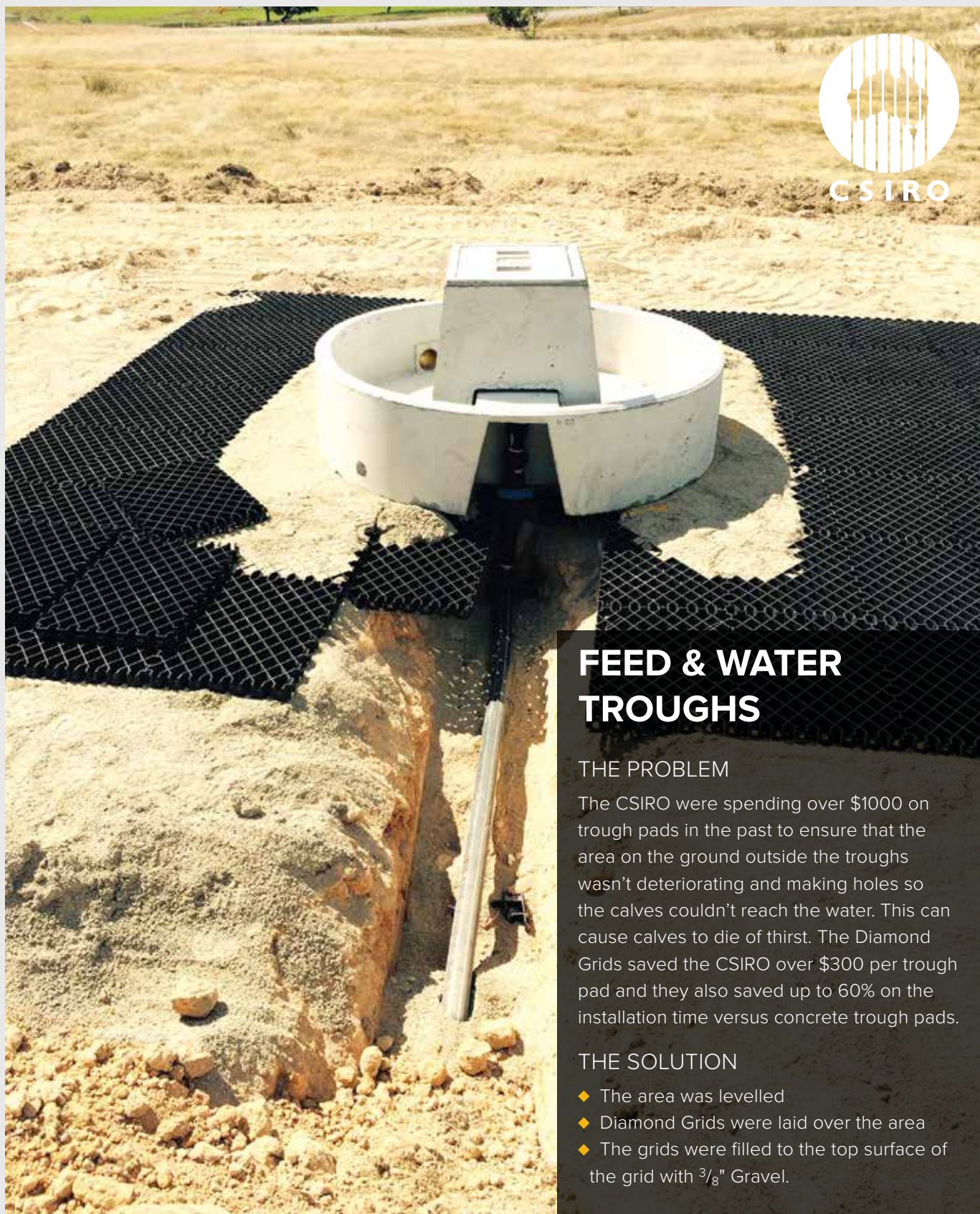
* Testing carried
out by Australian
Laboratory
Services



Concrete costs can be reduced by up to 40% when using Diamond Grid as the reinforcement structure, as concrete depth required is only 1-³/₄" , considerable savings can be made on concrete requirements and labor.



CASE STUDIES



FEED & WATER TROUGHS

THE PROBLEM

The CSIRO were spending over \$1000 on trough pads in the past to ensure that the area on the ground outside the troughs wasn't deteriorating and making holes so the calves couldn't reach the water. This can cause calves to die of thirst. The Diamond Grids saved the CSIRO over \$300 per trough pad and they also saved up to 60% on the installation time versus concrete trough pads.

THE SOLUTION

- ◆ The area was levelled
- ◆ Diamond Grids were laid over the area
- ◆ The grids were filled to the top surface of the grid with $\frac{3}{8}$ " Gravel.

HORSE STABLES

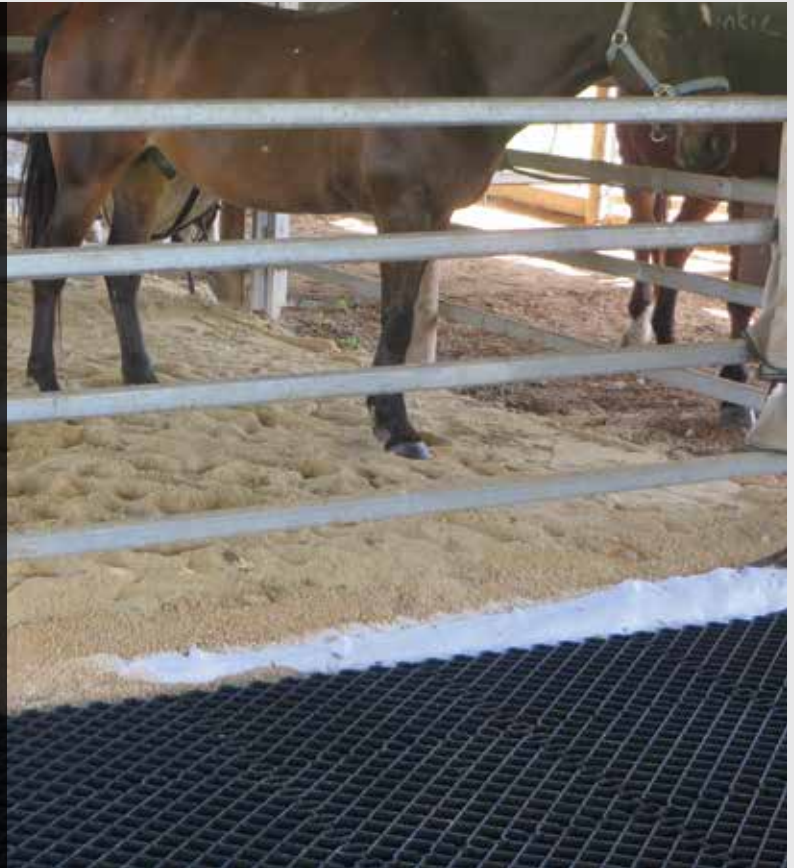
THE PROBLEM

The Murwillumbah RDA had some issues with their horse stables becoming very swampy from some underground springs, creating very muddy horse stables.

With the RDA being a charity, they were looking for a cost effective solution to stable flooring.

THE SOLUTION

- ◆ Geo Fabric was laid over the muddy surface
- ◆ 4" of sand was then spread over the fabric and levelled.
- ◆ Diamond Grids laid.
- ◆ Sand filled into grids and also an extra 3" over the top of the grids for the horses to stand and lay on.



FEED TROUGH PADS

THE PROBLEM

In the past Anvil Angus have installed Feed Troughs without any pads and have spent a lot of time and money carting in soil and gravel every few months so that the calves can reach the troughs. Each time they have had to go through this process cost them 50% of the price that installing Diamond Grids as a permanent solution costs, meaning that they pay for themselves within 6 months.

THE SOLUTION

- ◆ The area was levelled
- ◆ Diamond Grids were laid over the area
- ◆ The grids were filled to the top surface of the grid with $\frac{3}{8}$ " Gravel.





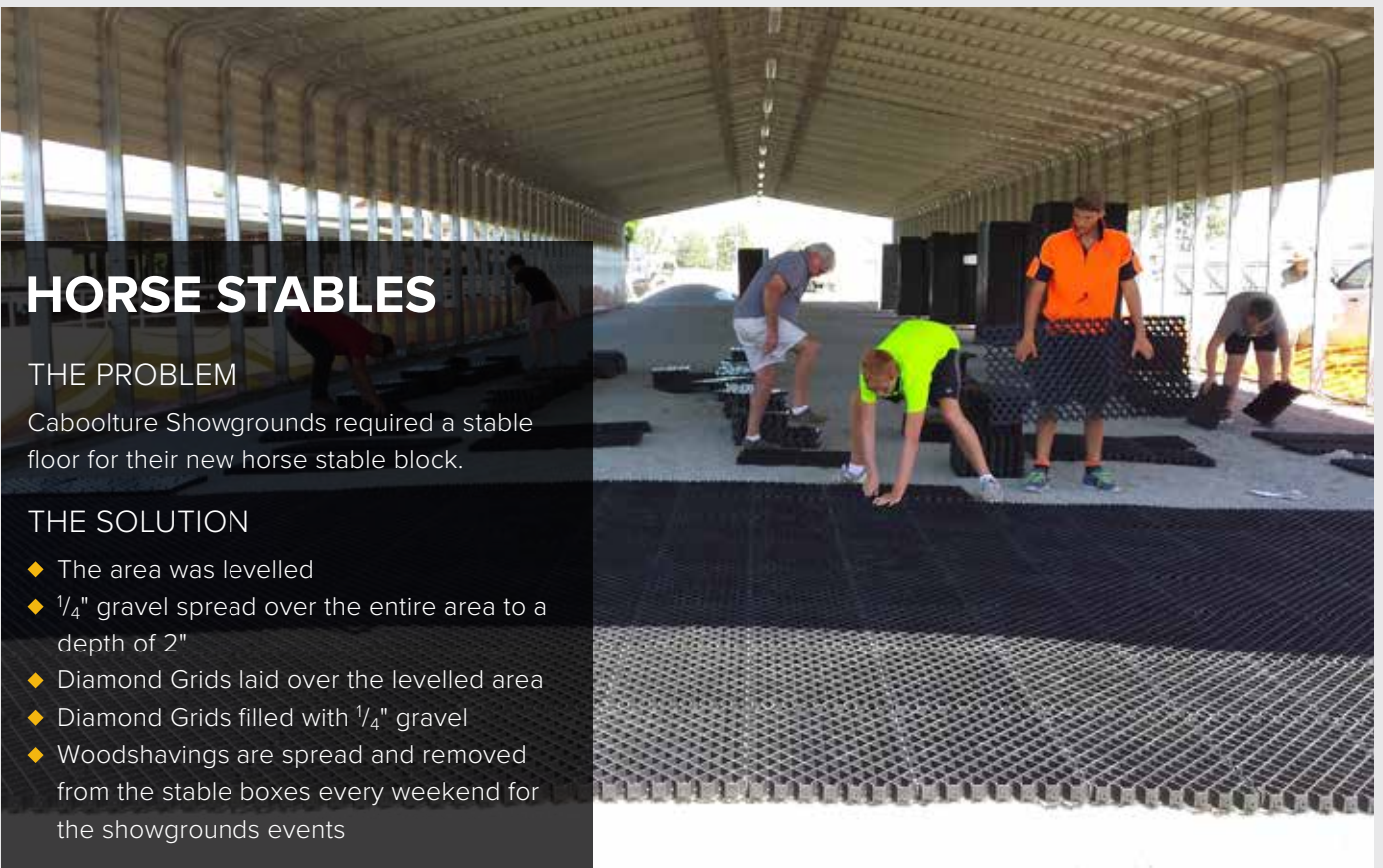
AIRSTRIP

THE PROBLEM

This airstrip had a very high water table and during the wet season it was not possible for aircraft to land on the airstrip due to the softness of the surface.

THE SOLUTION

Diamond Grid was installed on the airstrip and filled with local material, grass was then allowed to grow through the grids to reinforce the surface further and create an all weather airstrip.



HORSE STABLES

THE PROBLEM

Caboolture Showgrounds required a stable floor for their new horse stable block.

THE SOLUTION

- ◆ The area was levelled
- ◆ $\frac{1}{4}$ " gravel spread over the entire area to a depth of 2"
- ◆ Diamond Grids laid over the levelled area
- ◆ Diamond Grids filled with $\frac{1}{4}$ " gravel
- ◆ Woodshavings are spread and removed from the stable boxes every weekend for the showgrounds events



SHED FLOORING

THE PROBLEM

Zocar Hay Farm was having issues with their hay and other horse feed getting wet from water rising up through the ground.

THE SOLUTION

- ◆ Floor levelled and compacted
- ◆ Diamond Grid laid
- ◆ Filled with $\frac{3}{8}$ " drainage gravel
- ◆ Sprayed with bitumen emulsion to provide a solid, draining surface.



CRANBOURNE RACECOURSE STABLE FLOORING

THE PROBLEM

Cranbourne Racecourse were looking for a cost effective solution to install flooring in their horse stables at the new multi million dollar expansion of the Cranbourne Racecourse training facilities.

THE SOLUTION

Diamond Grid has saved the racecourse over 45% on the cost of all other alternatives. It also provides long term savings for the racehorse trainers using the stables as they will reduce their stable bedding usage by 50% or more as the urine drains through the bedding to the base under the grids, leaving the bedding dry and clean and not requiring it to be thrown out and replaced on a daily basis.



FILL OPTIONS



◀ ROAD BASE



3/8" ROCK ▶



◀ ASPHALT



CONCRETE ▶



◀ 9/16" ROCK

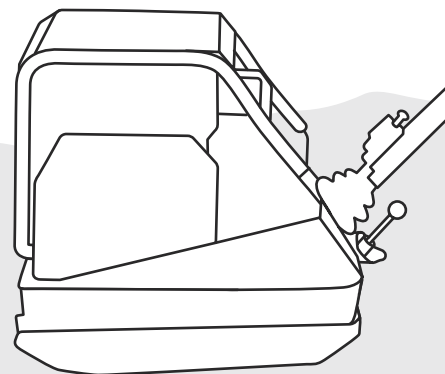


SAND ▶

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

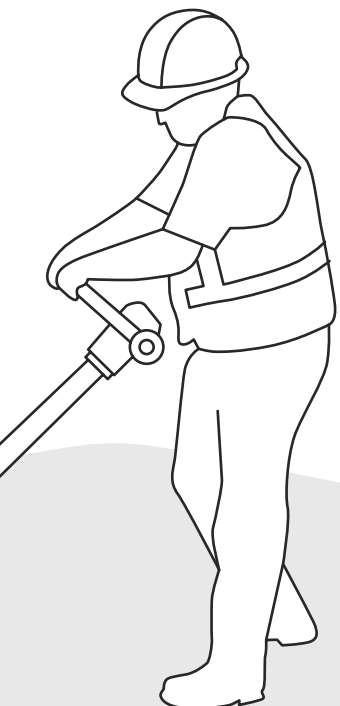
- 1 USING A GRADER OR A BOBCAT AND SPREADER BAR, LEVEL THE SITE IN READINESS TO LAY YOUR DIAMOND GRID.
- 2 LAY GEO FABRIC OVER THE LEVELLED AREA.
- 3 IF THE SITE IS STILL UNEVEN, 3/8" OF CRUSHED 3/16" MINUS ROCK AND FINES CAN BE SPREAD AS A BEDDING.
- 4 LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH 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 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 AREA WHERE THE GRIDS ARE GOING TO BE LAID. COVER THE GEO FABRIC WITH ROAD BASE WITH ROLLER OR VIBRATING PLATE.
- 3 COMPACT ROAD BASE WITH ROLLER OR VIBRATING PLATE.
- 4 IF THE SITE IS STILL UNEVEN, 1/2 INCH OF CRUSHED 1/4 INCH MINUS ROCK AND FINES CAN BE SPREAD AS A BASE.
- 5 LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH THE MALE LUGS FACING OUTWARDS ON BOTH SIDES.
- 6 FILL THE DIAMOND GRID WITH A BOBCAT AND SPREADER BAR OR SOMETHING SIMILAR WITH YOUR CHOICE OF MATERIAL*.

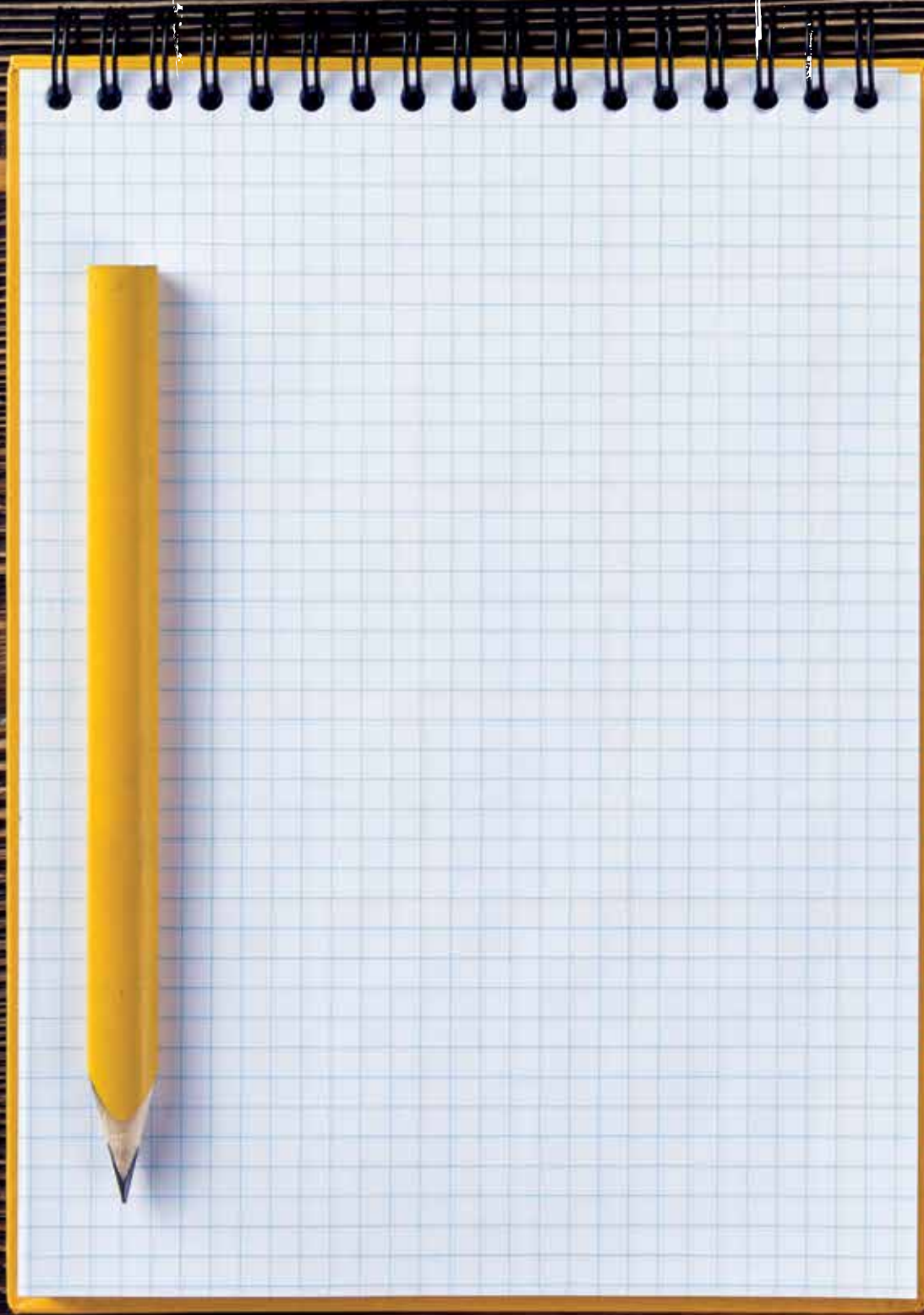
EXCAVATION AND MAJOR BASE PREP

- 1 EXCAVATE SITE TO A DEPTH OF 8-14" 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 1-1/2" 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.
- 6 IF THE SITE IS STILL UNEVEN, 1/2 INCH OF CRUSHED 1/4 INCH MINUS ROCK AND FINES CAN BE SPREAD AS A BEDDING.
- 7 LAY THE DIAMOND GRIDS STARTING IN ONE CORNER WITH THE MALE LUGS FACING OUTWARDS ON BOTH MALE SIDES.
- 8 FILL THE DIAMOND GRID WITH A BOBCAT AND SPREADER BAR OR SOMETHING SIMILAR AND YOUR CHOICE OF MATERIAL*.



Diamond Grid International 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.

Diamond Grid International Pty Ltd 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.



Quality
ISO 9001

SAI GLOBAL



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DIAMONDGRID™

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