



Blue Pacific
MINERALS

Agriculture



**STOCK
ROCK®**

**THE ULTIMATE SURFACE
FOR YOUR FARM RACES**

INFORMATION

› P. 0800 88 55 55

› www.stockrock.co.nz



PROBLEMS:

- Spending time and money on treating lame cows and missing days in milk
- Cows taking their time to get to the dairy - getting down to single file in some places
- Cows arriving dirty to the dairy with increased health issues such as mastitis
- Cows carrying stones on to the concrete creating stone bruises

SOLUTION: **BPMNZ STOCKROCK®** FOR YOUR DAIRY RACES



WHAT IS STOCKROCK®?

STOCKROCK® is NZ zeolite, quarried at Ngakuru, south of Rotorua. Zeolite is a soft sedimentary rock formed by ash deposits in the bottom of lakes. Following seismic events, the ash is compressed and then, activated by geothermal water to produce an 'altered clay'. Our Zeolite is a lighter rock, meaning there is more volume per tonne than traditional race rock.

*STOCKROCK® is quarried at
Ngakuru, south of Rotorua.*



John Anderson

Milks herd of 500,
North of Mangakino

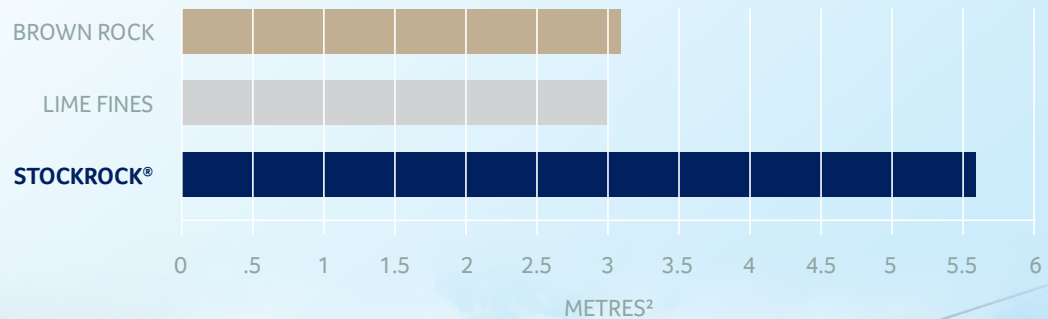
*"Some of our **STOCKROCK®** has been down 10 years now. We do a little more each year.*

*Some parts were really muddy with a spring underneath and **STOCKROCK®** sorted the problem over night.*

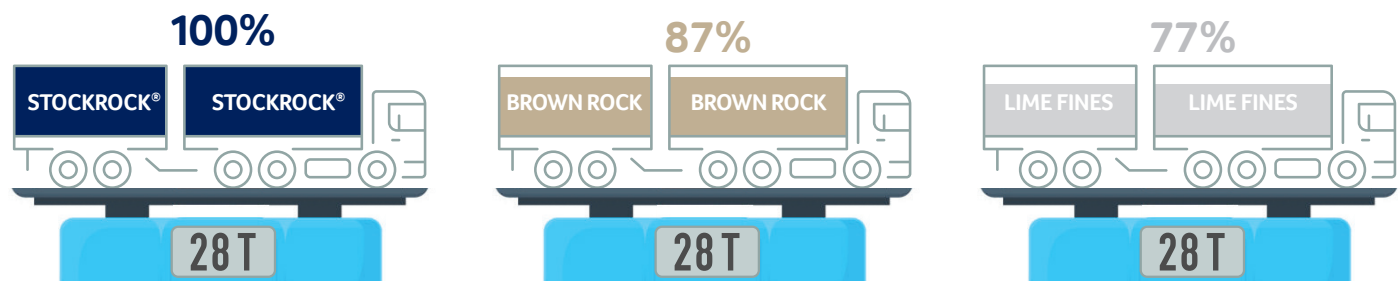
We were having 1 to 2 lame cows a day, now that is more like 1 to 2 a week, not sure of that percentage, but it is a great improvement."

ECONOMICALLY **STOCKROCK®** STACKS UP!

The below graph shows the distance covered by 1 tonne of race rock options - assuming 200mm depth:



Due to the lighter density of the rock, we get more volume into a truck, saving on freight costs. Less loads required to get the same coverage.



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STOCKROCK® 100 (SR100)

Nominal 100mm top size crushed and screened.

- Used for a capping layer in high pressure areas or for all general race needs around the farm
- Recommended laying thickness is - 180mm when loose
- A 30 tonne load, compacted to 120mm finished depth, covers 170 square metres

STEPS TO A SUCCESSFUL INSTALLATION

When laid correctly, a STOCKROCK® farm race will provide a farmer with a high quality, soft, long-lasting, working surface. The investment made in a STOCKROCK® surface will be rewarded if the installation procedure specified below is followed.

1. Order the appropriate quantity of STOCKROCK®. An online calculator is available on www.stockrock.co.nz
2. Mark out and measure the area for installation.
3. Scrape the marked area clean, removing all soft material, mud and potholes.
4. Rip and re-shape the existing race to ensure the surface is evenly contoured, fence to fence.
5. Lay STOCKROCK® on full width of the race, fence to fence.
6. Track roll, then compact STOCKROCK® with a 4-tonne roller to finish.

HOW MUCH STOCKROCK® DO I NEED TO ORDER?

Measure the high pressure area to be covered in STOCKROCK®

EXAMPLE:

100m x 5m of farm race = 500m²

Multiply the area 500m² x 0.18

TOTAL = 90 TONNES

PLEASE NOTE: The 0.18 factor gives the loose, uncompacted volume required for spreading SR100 at 180mm. This volume will compact to 120mm when rolled and sealed.

Most road haulage contractors cart 29 - 30 tonnes, so for efficiency, order your STOCKROCK® to the nearest full unit load.

FOR OUR ONLINE CALCULATOR VISIT WWW.STOCKROCK.CO.NZ



COMPLETED
STOCKROCK®
FARM RACE

HOW TO LAY STOCKROCK® (SR100) ON EXISTING FARM RACES



1. MEASURE

Mark out the area to be covered with SR100. Measure fenceline to fenceline.

A minimum uncompacted thickness of 180mm must be maintained over the full width of the race.



2. CLEAN & CLEAR

The area must be scraped clean, removing all soft material, mud and potholes, before SR100 can be successfully installed.

Edges against concrete must be rebated by 300mm to allow for a good wearing strip.



3. RESHAPE

Using a grader or excavator, rip and re-shape the race surface so that the camber on the race is approximately 3-6% from the centreline.



4. LAY

Once the existing race has been cleaned off and each end has been rebated for the wearing strip, spread SR100 at 180mm depth, fenceline to fenceline, full width of the race.



5. TRACK ROLL

It is recommended to track roll the surface once shaped, prior to compacting with heavy machinery. We do not recommend using a tractor and blade as it will not compact the zeolite as it is too lightweight.



6. COMPACT

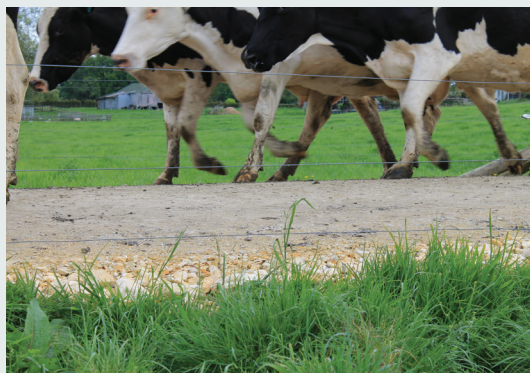
Compact using a 4-5 tonne vibrating roller, minimum 4 passes over each section of the race.

The finished compacted depth of 120mm must be maintained over the full width of the race.

Newly laid STOCKROCK®



STOCKROCK® race in use



Cross-section



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HOW TO REPAIR EXISTING STOCKROCK® FARM RACES

Some areas may wear more quickly than others. In this instance, repairs can be made simply and quickly using an excavator and roller, without ripping up the entire race.

Simply cut out the area similar to how you would replace a piece of concrete, and replace with new rock.

The key here is to make sure you excavate back far enough into the base layer so the repair is 'keyed' into the existing layer, and so you have minimum of 120mm compacted thickness.





Before



After



Before - farm race in wet conditions before STOCKROCK® is laid.



After - completed STOCKROCK® farm race.



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