



CASE STUDY

Downer Bitumen Plant Upgrade

ABOUT THE COMPANY



Downer New Zealand is a company with a proud history that can be traced back to 1870. Since that time, they have built a significant proportion of the country's roads, rail lines, telecommunications and hydroelectric schemes that enabled New Zealand to grow into the country it is today. More recently Downer have become actively involved in water and renewable energy schemes and with more than 5000 employees located in over 60 towns and cities across New Zealand, they play an integral role in keeping New Zealand's essential infrastructure running. Downer designs, builds and sustains assets, infrastructure and facilities and are the leading provider of integrated services in Australia and New Zealand.

THE CHALLENGE

Up at Port Whangarei Downer recently took delivery of a SuperVault SVR-4999 and also a DC100 Diesel tank – both supplied via Z Energy for Downers bitumen plant upgrade. The site challenge was there was an old 20,000 litre twin compartment cylindrical tank in place that had been deemed non-compliant by the local Tank Certifier, and there was only a limited window of time to organise a suitable replacement and ensure it was up and running ahead of the upcoming Tarsealing season.



In a short space of time a compliant Fuelchief SuperVault 4999 and a DC100 diesel tank are commissioned to replace an old non-compliant cylindrical tank



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THE SOLUTION

Fuelchief has a long standing relationship as a tank Supplier to Z Energy which along with our SuperVault tank being certified for the Class 3.1C product needing to be stored on site made Fuelchief the obvious tank supplier for this situation. We worked with the site representatives and also the ECL Group site installers to finalise a design that closely matched the current fittings layout on the existing tank to minimise the onsite pipework needed during the tank changeover process.



As there was also a requirement to house a Transfer pump assembly for the SuperVault tank refilling we designed a pump bay by extending the roof and walls of the outer tank, and installed a locking door mechanism for security.

THE RESULTS

Feedback received indicated the installation and commissioning went smoothly and Downers are now starting into the Tarsealing season and are very pleased with the new installation. Attached are interesting 'before & after' pics showing how Downers have future proofed their bitumen facility for many years to come.



SUPERVAULT RECTANGULAR SERIES

- Capacity: 499L - 7,500L
- Multi Hazard Tested
- Stores Various Liquids
- Can Be IL4 Certified
- Can Be Customised
- Meets SwRI 95-03 Certification
- Easily Transportable
- 30 Year Warranty
- Environmentally Safe