

CASE STUDY

5 MILE RETAIL DEVELOPMENT

QUEENSTOWN

TRITON STORMWATER SYSTEM



CONTRACTOR	Wilson Contractors
ENGINEER	Clark Fortune McDonald & Associates
LOCATION	Queenstown
PRODUCTS USED	Triton Stormwater System and DuraForce® AS410 Geotextile

**ADVANCED
GEOSYNTHETIC
SOLUTIONS**

The Five Mile retail development site is part of the rapidly expanding Frankton Flats development in the Queenstown. Constructing such a large commercial development on silty soils meant it was essential that a proven Stormwater management system was utilised.

DESIGN

Following extensive market research for a solution that met stringent design requirements, Queenstown based engineers Clark Fortune McDonald & Associates specified Triton Stormwater arches into the project. During the design phase Cirtex worked with Clark Fortune McDonald to ensure the Triton system was going to perform in any storm event considered in the design parameters.

CERTIFICATION

The Queenstown District Council was very favourable towards the Triton system due to the following outstanding features:

- Unique self-flushing main header row for exceptional long term performance
- Advanced Resin polymer provides unparalleled strength for both dynamic loads and very high long term dead loads
- Larger chambers provide more efficient use of space as well as faster installation
- Eco friendly and carbon neutral product

INSTALLATION

For Isaac Harrison, Site Engineer for Wilson Contractors, the features of Triton have been an 'eye-opener'.

Wilson Contractors from Queenstown were the awarded contractor for the installation and completed this task to fantastic standards, with the support of the 'Cirtex Site Support' commitment.

A big part of a job like this is ensuring adequate preparation, and Isaac believes the speed of the project was in part due to the information available to the team.

Some comments from Isaac from Wilsons during the installation;

"We thought it'd take several weeks. A couple of days in and it's nearly all underground."

"We had a very good installation guide, with pretty comprehensive instructions from Cirtex," he says. "That helped us a lot, particularly with pre-installation planning. So there were no surprises when we started in."

Cirtex Technical Sales Representative Mackenzie Watt provided on-site support. *"Mackenzie has been a really good help to us, right from the start," says Isaac. "He's always been there to answer any questions – anything we weren't sure of he was ready with the information."*

Overall the Triton System has been an excellent benchmark for further systems going into the Frankton Flats development, and has been a great example of how Cirtex can collaborate with the engineers throughout the design phase and right through to site support during installation.



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