

CASE STUDY

POROWINI AVENUE WHANGAREI

ALLAN BLOCK CLASSIC & AB ASHLAR BLEND



CONTRACTOR	A-Line Limited
ENGINEER	Base Group Consulting
LOCATION	Porowini Avenue, Morningside, Whangarei
PRODUCTS USED	Allan Block Classic®, AB Ashlar Blend™, Sleeve-It®, StrataGrid® SG200 & DuraForce™ AS280

**ADVANCED
GEOSYNTHETIC
SOLUTIONS**

PROJECT

This project is based in Morningside, a suburb south of Whangarei, at a site that was being done up for development. This site required a 190 metre, long lasting retaining wall, that was aesthetically pleasing, and designed to withstand vehicle surcharge loadings, along with a fence/barrier to protect people from falling.

DESIGN

Cirtex working relationship with Base Group Consulting started when the project engineers contacted the Cirtex Internal Sales Team inquiring about an Allan Block segmental retaining wall system to run along two of the development boundaries. Ground conditions at the site were poor and the site was subject to long term ongoing settlement, so the engineers were looking for a retaining wall system that was capable of accommodating some differential settlement without compromising the structural integrity.

INSTALLATION

The installation was carried out by A-Line Construction, a full-service construction company based in Kamo, which happened to be an Allan Block Certified Contractor. A-Line Construction were familiar with the AB Ashlar Blend and always deliver excellence. The onsite team managed to improve ground stabilisation by means of compaction and Cirtex geotextiles.

The highlight of the project was the use of the Sleeve-It system for first time in New Zealand, which A-Line Construction used to deliver maximum value to the client, while minimising the risk of a poorly installed barrier on top of the retaining wall. A-Line Construction found the Sleeve-It convenient, durable and easy to use. The use of Sleeve-It has gained the attention of other contractors and engineers who have stopped to ask questions and take photos.

The products used provided the following benefits to the project:

- The flexible nature of the Allan Block system allowed for some differential settlement
- The Sleeve-It simplicity saved commercial space and time
- The Sleeve-It anchoring system enhanced the fence/barrier stability
- Significant ground stabilisation and settlement control due to the use of DuraForce AS280



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