

CASE STUDY

HAYWARDS INTERCHANGE

WELLINGTON

DURAMESH® MSE SOIL WALL SYSTEM



CONTRACTOR	Downer New Zealand
SUB-CONTRACTOR	Mills Albert
ENGINEER	Tonkin + Taylor
CLIENT	NZTA
LOCATION	Intersection SH2 & SH 58, Wellington
PRODUCTS USED	Rock faced DuraMesh, StrataGrid Geogrid, ECP2 Turf Reinforcement Matting and DuraForce Geotextile

**ADVANCED
GEOSYNTHETIC
SOLUTIONS**

PROJECT

Mechanically Stabilised Earth Structures (MSE) were required to support SH58 above McDougalls Grove and the off-ramp to Manor Park as part of the interchange improvements. DuraMesh and DuraSlope were used to fulfil these requirements successfully.

DESIGN

Cirtex® worked closely with Tonkin + Taylor and Downer Construction to find a solution for the 70° MSE wall that could meet both the structural parameters as well as the requests of the landscape architects. Keeping with the surrounding river environment proved challenging; however, the solution was Rock Faced DuraMesh wall using natural river stone as the facing material.

INSTALLATION

The contractor was able to pre-assemble the Duramesh panels and the required grid run length before placing the complete units into position and backfilling. Along with the benefit of being efficient, this meant safety was optimised by allowing the employees to work in the safety of a level yard and minimising the need to work at height. The DuraMesh system allowed for safety railing system to be installed which could be easily erected and deconstructed at every lift as the wall was built.

The Rock Faced DuraMesh System provided the following benefits to the project:

- Cost effective - DuraMesh Provide overall cost savings to the MSE wall portion of the project.
- Efficient to install – DuraMesh is quick and easy to install saving time on site.
- Safe – DuraMesh units can be pre-assembled allowing installation crew to work in a safe environment.



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