

## MORGAN & POLLARD FRONTAGE QUEENSTOWN

### GRASS VERGE FRONTAGE

**Product:** ECO Rain® - Root Zone Irrigation Mat

#### Problem

Queenstown weather features four very distinct seasons with a dry climate and many sunshine hours. Like many other New Zealand towns, Queenstown's water infrastructure struggles to meet growth in permanent resident and visitor population demands. Therefore an innovative and water saving irrigation technology is welcomed by Councils.

#### Solution

ECO Rain® is a revolutionary irrigation system that is buried in the ground. The polyethylene tubes integrated pressure drippers are wrapped with a special textile fleece and then sewed into two further layers of nonwoven geotextile. Although the only function of the dripping tubes is the filling of the textile irrigation mat with water, the real irrigation is done by the water saturation effect of the fabric and the resulting capillary action, which provides the root system evenly with water.

Morgan & Pollard Landscapes, an innovative contracting company in Queenstown, liked the product so much they agreed to install it outside their offices. ECO Rain® was easy to install with seed germination taking only 9-10 days with overhead sprinklers on the first day, after which the ECO Rain® took over the irrigation. Ian Gould, of Morgan Pollard commented that this proved to be much quicker than the usual process.

#### Outcome

Installation of the ECO Rain® went smoothly and the results would have shown the clear advantages of using ECO Rain® if Queenstown's 2008/09 summer hadn't been so unseasonably wet. A walk over the road frontage showed the area was firm and compact even after constant rain. Using ECO Rain® has the advantage of no water loss through evaporation and the irrigation is possible at any time - especially useful in public parks/reserves. There is also the reduced risk of vandalism. Approximate water usage for 53m<sup>2</sup> is 110 litres per day, with station run time of 7 minutes, during normal watering cycles.

Client / Contractors name:

MORGAN & POLLARD LANDSCAPES

Products used:

ECO RAIN®

Construction date:

COMPLETED MARCH 2008



Placement of ECO Rain® and topsoil



Ready for connection to irrigation system



Completed grass frontage area

#### Maccaferri NZ Ltd.

14 Goodman Place, P.O. BOX 12536, Penrose, Auckland, New Zealand  
Tel. (+64) 9 6346495 - Fax (+64) 9 6346492, FREEPHONE 0800 60 60 20  
E-mail: sales@maccaferri.co.nz - Web site: www.maccaferri.co.nz  
Quality System AS/NZS ISO 9001:2000

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