

## Polyrock Protection

**Flexible Polypropylene (Permaliner®), Nonwoven Geotextile (Syntex®)  
Retaining wall construction, Auckland, New Zealand**

**Client: North Shore City Council**

**Date: May 2003**

**T**he Axis subdivision in Albany included construction of retaining walls with the placing of the Polyrock, an expanded polystyrene block product specially designed for geotechnical applications in the construction industry.

Permathene supplied and installed the protection membrane and a Syntex GNP C2 (280 gsm) nonwoven geotextile fabric to cover the Polyrock in order to protect the blocks from any chemical spillage. This method was chosen over conventional fill materials because it offers great benefits, i.e. easy to install, impressive load bearing capacity, very light weight (only 1% to 2 % density that of soil). This reduces load to a great extent.

The combination of the Polyrock and protection membrane has been successfully used in civil applications worldwide for many years.

Permathene provided lining and installation. This protection membrane is resistant to most chemicals and has the advantage of providing flexibility during settlement. Permaliner FPP has excellent tear and puncture resistance.



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