

BluGeo Powerthread K60



M2 MOTORWAY UPGRADE

The \$550 million Hills M2 Upgrade plays a key role in Sydney's Orbital network linking the north west region to the lower north shore and Sydney's CBD. It is a key road freight and commuter route and connects the major employment hubs of Macquarie Park and Norwest Business Park. On a typical workday, more than 100,000 vehicles and over 27,000 bus commuters use the Hills M2.

PROJECT START: 2010

PROJECT COMPLETION: 2013

CLIENT/END USER: LEIGHTONS/TRANSURBAN

CONTRACTOR: HYATT GROUND ENGINEERING

ENGINEER/DESIGNER: COFFEY

APPLICATION

WHERE WE USED BLUGEO POWERTHREAD K60 SOIL NAILS

A steep embankment between Pennant Hills Rd and Windsor Rd's required soil nailing for stabilisation.

WHY WE USED BLUGEO POWERTHREAD K60 SOIL NAILS

BluGeo Powerthread K60 soil nails were designed to meet the structural and design life requirements of the project. Engineers decided to use BluGeo Powerthread K60 – GRP soil nails not only for the standard cost benefit versus steel DCP nails, but also because of the light weight nature of the product being 25% weight of steel nails. This saved considerable costs on the project by eliminating the need for craneage to install the nails.

FEATURES

- High tensile and shear strength
- 100 year design life
- Light weight
- Economical

BENEFITS

Allowed the easy installation of the 5.5m soil nails by one man instead of using a crane which would have been required if traditional steel DCP nails, were utilised.

SUMMARY

The properties of the BluGeo Powerthread K60 soil nails meet all the structural and design life requirements of the project and also allowed a quick, safe and economical installation.

