



Case Study - Block Wall Reinforced with StrataGrid™ Flexible Uniaxial/Biaxial Geogrids



Coated biaxial multifilament polyester geogrid ranging in strength 35kN/m to 130kN/m are used in subgrade reinforcement and Block wall tie back.

A Keystone™ concrete block wall with StrataGrid™ polyester geogrids was constructed to a height of 10 metres. The wall face area was approximately 3000sqm in total. StrataGrid™ high strength, high tenacity, polyester uniaxial geogrids SG600, SG550 & SG500 grades were used on this project. The site was raised using Keystone™ retaining wall system reinforced with StrataGrid™ to accommodate an industrial complex and to provide perimeter storm water easements. Keystone™ block walls are flexible segmental concrete block walls and are ideal for use as a facing element for geogrid reinforced soil wall structures.



High segmental block walls require the use of geogrids to provide structural stability of the retaining wall.

Global, external and internal stability checks need to be carried out on the Reinforced Segmental Wall (RSW). As a rule of thumb, RSWs are very economical for walls higher than 3m typically. Lower height walls may also be suitable for certain situations.

For more information on these retaining wall systems, please contact Polyfabrics Australasia



Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

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