



EASTSIDE CATCHMENTS GIBRALTAR, GIBRALTAR

Protección contra caídas de rocas

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Proyecto	Eastside Catchments Gibraltar
Lugar	Gibraltar
País	Reino Unido
Año de instalación	2017
Cliente	Government Of Gibraltar
Ingeniería	Golder Associates
Contratista	CAN Geotechnical Ltd.
Situación inicial	Following rockfall in 2015 Golder Associates undertook a design for rockfall mitigation measures to protect the road and residential properties below. The detailed rockfall analysis showed a requirement for protection from a 5000 kJ impact with a system height of 7 m.
Descripción	<p>In December 2016 CAN Geotechnical were awarded the project to complete phase 1 of the works, a 40 m long and 7 m high 5000 kJ rockfall barrier. We supplied a RXE-5000 barrier. To enable future works to be completed more easily and without deconstructing the existing fence, we provided a solution for the end post to allow for this.</p> <p>Over several years and many projects Geobruigg has worked with both Golder Associates and CAN Geotechnical and a good relationship has developed. This enabled all of the involved parties to work together to find a cost effective and buildable solution.</p> <p>The ground conditions on the eastside catchments are well known and extremely difficult to work within. To enable the works to be completed CAN Geotechnical had to carry out lots of temporary works and to use enlarged concrete bases for the fence posts. Additionally CAN Geotechnical opted to terminate all ground anchors into reinforced concrete bases with wire rope eyes protruding for connection to Geobruigg U-brakes.</p> <p>In January 2018 CAN returned to site to install the remaining 48m of barrier. The customised solution installed on the previous section worked perfectly enabling a smooth installation and transition between the two barriers.</p> <p>For this phase of works CAN built upon their knowledge of the ground conditions encountered last time and in conjunction with the designer were able to use a more conventional anchoring solution avoiding the need for the large concrete foundations beams and the temporary soil nailing required in the previous phase. This was no easy task however as it required drilling with a 115mm bit to install R51 Hollow bar, with the requirement to install permanent casing in the upper part to provide extra stability.</p>
Objeto protegido	Carretera, Infraestructura turística, Area residencial, Infraestructura
Protección contra la corrosión	Galvanizado, GEOBRUGG SUPERCOATING
Capacidad de absorción de energía	5000 kJ
Altura del sistema	7.0 m
Longitud del sistema	88 m

Si tiene preguntas por favor póngase en contacto con nuestro especialista Geobruigg en su área

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