



EASTSIDE CATCHMENTS GIBRALTAR, GIBRALTAR

Steinschlagschutz

Eastside Catchments Gibraltar

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Projekt	Eastside Catchments Gibraltar
Ort	Gibraltar
Land	Vereinigtes Königreich (UK)
Installationsjahr	2017
Kunde	Government Of Gibraltar
Planer	Golder Associates
Ausführende Firma	CAN Geotechnical Ltd.

Ausgangslage

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.

Massnahme

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.

Over several years and many projects Geobruigg has worked with both Golders 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.

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.

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.

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.

Geschützte Objekte	Strasse, Touristische Infrastruktur, Wohngebiet, Infrastruktur
Korrosionsschutz	Verzinkt, GEOBRUGG SUPERCOATING
Energieaufnahmevermögen	5000 kJ
Systemhöhe	7.0 m
Systemlänge	88 m

Für Fragen steht Ihnen unser Geobrugg Spezialist gerne zur Seite

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