



# AUSSERFERNBAHN EHRENBERG NEAR REUTTE, AUSTRIAN RAILWAY ÖBB, AUSTRIA

29/

Protección contra caídas de rocas

# Ausserfernbahn Ehrenberg near Reutte, Austrian Railway ÖBB

## Protección contra caídas de rocas

<b>Proyecto</b>	Ausserfernbahn Ehrenberg near Reutte, Austrian Railway & ÖBB
<b>Lugar</b>	Tirol/Ausserfern/Reutte
<b>País</b>	Austria
<b>Año de instalación</b>	2015
<b>Cliente</b>	Austrian Railway Infrastructure - & ÖBB-Infrastruktur AG
<b>Ingeniería</b>	& ÖBB-Infrastruktur AG
<b>Contratista</b>	Hilti & Jehle GmbH
<b>Situación inicial</b>	<p>Within the concept of "The Rehabilitation of the Karwendel and Ausserfernbahn – A Railway for Mobility", the line was further protected from natural disasters in 2015.</p> <p>Since its commissioning in 1912/13 as the first completely electrical railway in the former Monarchy of Austria–Hungary, the line has now developed into a popular railway. Today, the route is considered a premier historical landmark, with early Alpine railways, numerous railway buildings, bridge structures, and a natural stone tunnel having protected status.</p> <p>Due to damage from storms and harsh winters, the section between the tunnel portal, above the site of the <i>Burgenwelt Ehrenberg</i> castle and mountain road B179, was likely to be struck by rockfall.</p> <p>As far as tourism and infrastructure are concerned, a secure railway connection between Ausserfern-Reutte and Innsbruck is of huge importance.</p>
<b>Descripción</b>	<p>Four RXE-500 rockfall barriers were installed to protect the railway line, the B179 road running directly below, part of the area of the <i>Burgenwelt Ehrenberg</i> tourist site, and the highline179 pedestrian bridge against falling rocks, blocks, and trees.</p> <p>A double-walled enclosure of just 13 meters connected to the rock secures the tunnel portal. Three rows of RXE-500 run parallel to the track, with a total length of 207 meters. All barriers were designed with an overall height of 3.5 meters. A series of cables, with a length of 100 meters, has a carrier separation with intermediate suspension after 50 meters. This adheres to the requirements set out by the ONR (Austrian Standards).</p> <p>Due to its exposed position, the task of carrying all construction site equipment and the installation of the RXE barrier had to be undertaken by helicopter.</p>
<b>Objeto protegido</b>	Carretera, Ferrocarril, Edificio, Infraestructura turística, Infraestructura
<b>Protección contra la corrosión</b>	Galvanizado, GEOBRUGG SUPERCOATING
<b>Capacidad de absorción de energía</b>	500 kJ
<b>Altura del sistema</b>	3.5 m
<b>Longitud del sistema</b>	13 m - 100 m

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

---

**Roger Moor**

Country Manager Ost- und Zentralschweiz, Liechtenstein

Teléfono +41 71 466 81 52

Móvil +41 78 783 46 81

Roger.Moor@geobrugg.com



**Geobrugg**

info@geobrugg.com | www.geobrugg.com

---