



ANCHOR REINFORCEMENT MOTORWAY TUNNEL, SWITZERLAND

Impact Protection

Anchor reinforcement motorway tunnel

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Project	Anchor reinforcement motorway tunnel
Location	St. Gallen
Country	Switzerland
Year of installation	2008
Customer	Federal Road Office Astra
Engineering	Geobrugg AG
Initial situation	-
Description	<p>Some of the tie bars in the vicinity of a gravity wall have corrosion problems. These corrosion problems can result in tie bars suddenly fracturing – brittle fracture – and flying into the clearance gage profile of the adjacent freeway lane. The aim of an elaboration was to brake the tie bars at a relatively short distance, preventing them from penetrating the lane space. Geobrugg's answer comprises a high-tensile steel wire mesh stretched in front of the 64 tie bar heads and provided with four braking rods, two at the top and two at the bottom. The ingenious interaction of this mesh and the specially designed braking system permitted a reduction in kinetic energy of up to 30 kJ for a deflection of only 40 cm. Use is made here of the specific material properties of the utilized steel (very high dynamic- plastic deformation capability).</p>
Protected object	Other
System height	N/A

For questions please contact our Geobrugg specialist at your side

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