



Slope Stabilization

Reference Details:

Owner EP - Estradas de Portugal E.P.E., Portugal +++ **Main**

Contractor Construtora do Tâmega S.A., Portugal +++ **Design** INTECSA, Engenheiros Associados, Portugal Ing. Boller, Italy

DSI Unit DSI Portugal, Lisbon, Portugal

DSI Services Supply of 9,932 m permanent DYWIDAG Strand Anchors; Rental of equipment.



Permanent DYWIDAG Strand Anchors Stabilize Slope for Road Construction Project

New exit for IC2 expressway near Vialonga, Portugal

In Portugal as in many other countries, companies with large space requirements, continue to move out of cities. As a result, various industrial areas have been developed around Lisbon in the past few years. This process has significantly reduced the number of heavy vehicles travelling into the city of Lisbon, however, the traffic infrastructure in the suburbs can no longer cope with the increasing industrial growth.

A new industrial zone has recently developed at the edge of the village of Vialonga, about 10 km outside of Lisbon. Until now the IC2 expressway has passed the village's MARL hypermarket without any direct road connection thereto. Therefore, it was decided to build a new exit off IC2 to direct delivery vehicles directly to the hypermarket.

Since the new road connection passes through hilly territory, extensive earth movement measures had to be undertaken to prepare the site for the future road. To stabilize the slope, a retaining wall with a maximum height of 15 m had to be built. To tie back the retaining wall permanent DYWIDAG Strand Anchors were used. For this project DSI Portugal supplied about 10,000 m permanent DYWIDAG Strand Anchors and technical equipment for installing and prestressing of the anchors.