



■ Excavation



Reference Details:

Owner Consorcio Zona Franca de Vigo, Spain +++ **General Contractor** DRAGADOS, Spain +++ **Architect** Javier Saenz de Oiza, Spain +++ **Technical Consultant** Gescenter Consultant, S.L. y Asociados, Spain +++ **Subcontractor** SONDEOS DEL NORTE, Spain

DSI Unit DYWIDAG Sistemas Constructivos, S.A., Madrid, Spain

DSI Scope Supply of 87 GEWI[®] Plus Piles, Ø63.5 mm, grade 670/800 with double corrosion protection, 115 GEWI[®] Piles, Ø32-63.5 mm, grade 500/550 with double corrosion protection



Anchoring the bottom slab of a structure using GEWI[®] Plus Piles

A-LAXE Shopping Center in the harbor of Vigo, Galicia, Spain

The West Spanish seaport of Vigo located on the Atlantic coast not only accommodates one of Europe's most important fishing harbors, but also a major commercial harbor. An increasing number of cruise ships call at this port as a result of the booming cruise tourism. The administrative authority of the freeport decided to build a large shopping center in the harbor area to increase the port's appeal to the large number of tourists visiting Vigo every year.

The particular nature of the foundation soil located in a land reclamation area in the harbor posed a major technical challenge for this project. The land was reclaimed using a mixture of sand and thixotropic materials. In addition, the tides significantly impair the soil's strength.

Therefore, the large bottom slab of the shopping center had to meet the extreme prevailing loads. Double corrosion protected GEWI[®] Plus Piles were used to anchor the bottom slab and to counter hydraulic uplift. The well proven GEWI[®] System is predestined for use under difficult framework conditions such as the compression and tension loads on this project. DSC Spain supplied a total of 202 GEWI[®] Piles in varying lengths from 4 m to 12 m.