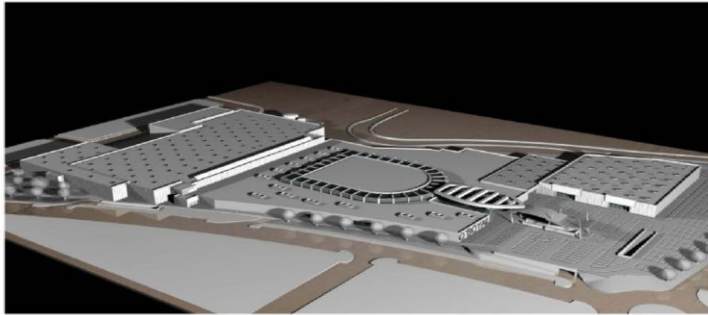


Structural engineering for "O'Boyal" Shopping Center



JOB	0733
P.O.	El Ferrol, La Coruña, Spain
LOCATION	
CLIENT	ARQUINTEC
AREA / LENGTH	98,080 m ²
GLOBAL BUDGET (OF THE TASKS UNDERTAKEN)	83,368,000 € 9,755,163 €
TASKS UNDERTAKEN	Foundation and structural engineering project
DATE	2007
DESCRIPTION	

The O'Boyal Shopping Center is located in El Ferrol on a plot of 45.768 m². The building has the following characteristics:

Basement of 40062.66 m² for car park use.

Commercial ground floor partitioned in the following zones:

Large area of supermarket with surface area of 8400 m²

Medium area 1, with a surface area of 4077.6 m²

Medium area 2, with a surface area of 2468.1 m²

Medium area 3, with a surface area of 688.0 m²

Mall zone for commercial uses, of 13280 m²

Office block and technical rooms for the supermarket, with 786.7 m²

The structure of the car park and mall is designed with concrete columns and concrete slabs with 8mx8m spans using a grid concrete slab. Perimetral walls are designed with concrete walls cast in place.

Medium areas 1 and 2 and the supermarket are designed with spans of 16mx16m and 16mx8m, using wooden beams and roof decking.

Medium area 3 and some areas of the supermarket are designed with steel structure and roof decking

PROJECT DATA

Foundations:

Cast in place concrete footings
Retaining walls with passive ground anchors

Structure:

19 structure modules
Concrete columns
Concrete grid slabs
Steel and timber roof structures

