



Water Sports Center

Madrid, Spain / 2014

Structural type
Owner
Client
Scope
Architect

slabs, walls and concrete piers, posttensioned beams, steel roof
Madrid Infraestructuras Deportivas 2012
Dragados - Ortiz
detailed design and construction support
Juan José Medina Gonzalez



The Aquatic Sports Centre building in Madrid is composed of three intimately related structures in form of glass boxes: Olympic-sized swimming pools and diving pools, waterpolo and warm-up pools and a central service building. Due to celebrations of open-air competitions, the roof over the central structure (110 x 80m), containing the Olympic pool, is mobile. 10 meters above the borders of the pools, there are seven boxes: one, which is 110.0m in length and six smaller ones which contain stands which may be dismantled so permitting multiple usage.

The foundation was laid with pre-cast concrete piles and reinforced concrete pile-caps. The structure is composed of 0.3m deep concrete slabs which are supported upon reinforced concrete diaphragm walls and columns with spans of 10 x 10m. The steel roofs are composed of different truss configurations and large span beams.



C/ Barquillo 23, 2º | 28004 Madrid | España
T. (+34) 917 014 460 | F. (+34) 915 327 864
www.fhecor.com | fhecor@fhecor.es