

Cover of the Jose Alvalade XXI stadium

Lisbon (PT)



Study mission for the execution of the metal structure in consultancy for GRID engineering office

Owner
Sporting Club of Lisbon

Architect
Tomás Taveira

Cost of the works
€ 92,2 M excl. vat

Execution
2000 - 2003

ST



New stadium built for Euro 2004 to comply with UEFA requirements: construction of stands to accommodate 52,000 spectators, and a 25,400 m² roof.

The structure and the steps are in reinforced concrete.

The roof is supported on the exterior facades of the stadium and, inside, suspended from 4 metal masts with a height of 60 m.

The metal structure consists of lattice beams arranged on the one hand radially and on the other hand circumferentially. At the inner end of the roof, a walkway goes around to give access to sound and lighting equipment. It is also used to compensate for wind-induced lifting effects.