



European Union Intellectual Property Office. EUIPO

Alicante, Spain / 1998

Structural type
Owner
Client
Constructor
Scope
Architect

pre-fabricated or prestressed grid slab with unbonded single strand tendons
OAMI
Dragados - ECISA
Dragados Obras y Proyectos - Ecisa
detailed design and construction support
Escario Arquitectos



The OHIM building has 16,000m² below ground level specifically destined towards car parking, and 15,500m² above ground level destined towards office space and auxiliary buildings.

The underground structure consists of a reinforced waffle slab 0.35m in depth, placed on a grid of columns 7.50m x 7.20m.

The structure above ground level is trapezoidal in shape, with floor dimensions 155.00m x 16.00 m, on plan. These floors rest on headwalls (which resist the forces produced by earthquakes and imposed deformations) on the vertical circulation cores and on a grid of columns 15.00 x 7.20m². The floor slab is a 0.45m deep waffle slab whose reinforcement is directed towards the columns, placed at every 7.20m and pre-stressed with unbonded single strand bundles directed towards the 15m span.

The building was designed and built without expansion joints, despite its large dimensions.

The auxiliary buildings which are 12.00m x 12.00m and have no inner columns, have been built with post-tensioned reinforced beams, employing high strength tendons, as well as a reinforced concrete slab 0.25m in depth.



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