Adolfo Suarez Airport Terminal 4 Car Park

Madrid, Spain / 2006

Structural type	0.38 m deep reinforced concrete waffle slab, supported on an 8.0m x 8.0m grid of columns
Owner	AENA
Client	Dragados
Constructor	dragados obras y proyectos
Scope	detailed design and construction support
Architect	Richard Rogers & Estudio Lamela

The car park building of the new terminal of Barajas Airport, of 656,40 x 80,00 m on plan and six levels, is divided into six modules of 112,00 x 80,00 m, without joints. Structurally, it is a 0,38 m deep reinforced concrete waffle slab, supported by a grid of columns of 8,00 x 8,00 m.

The high flexibility of these circular cross section columns of 0,50 m diameter improves the behaviour of this large structure. In order to avoid the duplication of columns between modules, the expansion joint is arranged in cantilever, providing vertical compatibility by means of dowels.

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