

Project Profile- Structural – Convention Centre Dublin



Project Details

Developed by Treasury Holdings the Convention Centre, Dublin is situated at Spencer Dock on the banks of the River Liffey. At a cost of €380 million, Ireland's newest purpose-built international conference and event venue is to accommodate conferences from 8 to 8,000 participants in 22 purpose-built meeting rooms. It includes a 2,000 seat auditorium, 4,500 square metres of exhibition space and banqueting facilities for up to 3,000 guests

The Convention Centre, Dublin (CCD), announced it is the first carbon neutral international convention centre. The impact of the building's construction on the environment is zero.

In the main foyer a 500mm Concrete slab was cast insitu over underground parking and storage facilities. Cast onto the slab was a 150mm Lytag® lightweight aggregate no fines basecoat. A 155mm Lytag® lightweight aggregate concrete slab, using Lytag® course and fine LWA, was cast onto the LWA screed. Lytag® LWA was used to reduce the loadings on the main floor slab, and the no fines basecoat was able to be cast in one pour of around 70m³. The no fines basecoat would have reduced the dead load by 50% & the lightweight concrete dead load was reduced by 30 to 35%.

Info

Project: The Convention Centre Dublin

Date: 2007 - 2010

Client: Spencer Dock Consortium

Architect: Kevin Roche John Dinkeloo and Associates

Structural Engineer: Kevin Roche John Dinkeloo and Associates

Main Contractor: John Sisk & Sons, Dublin

Readymix supplier: Kilsaran Concrete

