

Premier Inn – Seventy bed hotel



MMC Engineer Ltd
Structural and Civil Engineers



Project Overview

Client:	Premier Inn
Developer:	J Ross Developments
Contractor:	Elements Europe
Designer:	Mtech Consult
Status:	Complete



Premier Inn – 70 bed light gauge steel hotel

A first for the hotel chain, bedroom modules were manufactured in Element Europe's Oswestry factory premises and transported the few miles down the road fully kitted out in a weatherproof shell.

The structure is primarily 70mm light gauge steel sections with minimal hot rolled columns and beams employed in the stair core modules only. Corridors span from bedroom pod to bedroom pod.

The project was delivered on time and on budget with minimal site works required.

Supplier of structural design services (Olympic Park) to the London 2012 Games

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A first for the hotel chain, bedroom modules were manufactured in Element Europe's Oswestry factory premises and transported the few miles down the road fully kitted out in a weatherproof shell. The scheme, in association with Pub Chain Brewers Fair (part of the Whitbread Group) created an additional sixty permanent jobs in the area so provided a welcome boost to the local economy.

The structure is constructed using Elements Europe's 70 x 40 x 1.2 mm light gauge steel sections with hot rolled columns and beams employed in elements of the stair core modules only. Corridors span from bedroom pod to bedroom pod allowing the bedrooms to be fully completed off site, and brought to site complete with furniture in place!

Bedrooms were manufactured and 'faced' with sheet's of fermacell as opposed to traditional plasterboard to make for a speedier finish – a skim of plaster is not required as fermacell can be painted on direct.

Stair pods, along with the rest of the hotel are three stories high, but the stair cores needed floor level lateral restraints building in due to the open nature of the stair well. Half landings were also supported / created to minimise the floor area taken up.

The bedrooms included, as is typical of the sector, en suite bathrooms / wet rooms which were also fully fitted out in the factory, prior to delivery to site. The bathrooms formed part of the structure of the bedroom 'pod', and were adjacent to the corridor to facilitate better services routing. All services were carried in the floor / ceiling of the corridor structure and simply 'teed' off into the bedrooms and bathrooms as they passed.

Due to the nature of the construction all the services were routed through pre punched and 'gromitted' holes in the load bearing walls. The bedroom lights, TV and wall sockets are all attached to the walls to keep services / wiring to a minimum and were fitted in the factory so that site works were all related to connecting modules together outside the bedrooms.

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