



The Wave Hotel and Apartments



Project name:
The Wave Hotel and Apartments

Location:
Butlins, Bognor Regis

Value:
£25m new build project

Services:
Structural & Civil Engineering

The Brief

Wave opened in Summer 2012 at Butlins Bognor Regis and is a £25m new build volumetric modular project consisting of 215 bedrooms and 29 apartments spread over eight stories.





One's collaborative and proactive approach to problem solving meant their specialist engineers and technicians were an integral part of the design team working with the clients' lead designer to develop solutions with completely new types of modules. Their team's technical know-how and ability to meet tight deadlines was critical to the success of the project.



Nick Williams at Unite Modular Construction, specialist modular contractor for Butlins The Wave Hotel and Apartments in Bognor Regis

Project Overview

As superstructure engineers for the project working on behalf of Unite Modular Solutions Ltd, One worked closely with the client to develop this complex hotel on behalf of main contractor, McAlpine, and the project owner Butlins.

Wave incorporates multi-sided modules, luxury fit-outs and structural interfaces within the facades to deliver external balconies, which mirror the shape of a cruise ship, fitting in with the seaside landscape. This method of off-site construction ensures all the services are incorporated from the outset, including plumbing and electrics, enabling simple connection on-site ready for occupation.

One's team of engineers was able to proactively use their experience to advise of potential issues early, offering practical cost effective solutions throughout.



The Benefits

- **Integrated design** - By working closely with the client's team and subcontractors and acting as the technical interface between them and the architect, One was able to respond quickly to potential design issues. This included liaising directly with the subcontractor for lifts and staircases and managing the design of the steel frame, directly saving the client cost and time.
- **Innovative solutions in modular design** – With the team's vast modular experience, they were able to develop a new way of combining modules. This reduced the number of lifts needed on site and consequently lowered construction costs.
- **Improved energy efficiency** – Controlled factory production enabled each modular unit to be manufactured to tight tolerances, resulting in improved air tightness and reduced energy consumption for the end building.



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