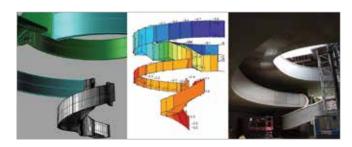




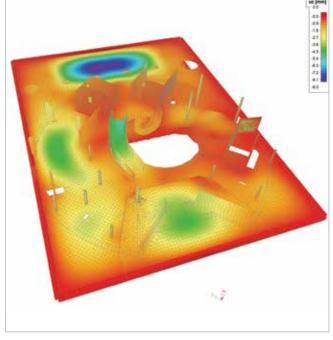
Owner Oxford University
Architect Herzog & de Meuron
General Contractor Laing O'Rourke
Engineering Office Pell Frischmann
Construction Period 2013 - 2015

Commissioned by Oxford University, the new building will host a facility that aims to train future world leaders. Such an ambitious idea demands an ambitious project. A cohesive design team formed by Herzog & de Meuron architects and Pell Frischmann worked together to shape this iconic building.

The structure has an intricate geometry that consists of a series of stacked toroids which are offset, on plan from floor to floor resulting in set-backs and cantilevers to the external elevation and to the inside face of the forum. Due to the complex interaction of structural members the building had to be analyzed as a whole. SCIA Engineer was used to create a full FE model and generate the analysis output used in the design. Code dependent deflections assessment was carried out to establish long-term displacements. Although post tensioned slabs were designed using a specialized software, SCIA Engineer proved to be very flexible with data input. Data was imported through table input to effectively simulate tendon forces within the slabs. The Construction Stages module was used to assess temporary supports as well allowing for more accurate deflection prediction for the permanent case.







Pell Frischmann

Contact Eddie Jump Pell Frischmann Address 5 Manchester Square

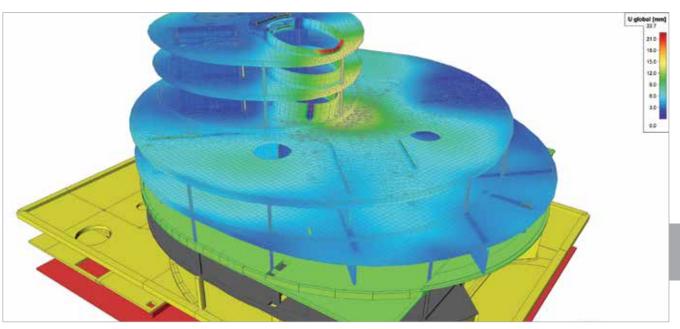
W1U 3PD London, United Kingdom

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Pell Frischmann is a diverse engineering, development and management consultancy delivering innovative solutions for public and private clients world-wide. Annually, we are responsible for more than £1 Billion of construction projects.

Our structural engineer capabilities cross the sectors and we work both in the UK and internationally.

In recently years our approach to resolving highly technical projects has been widely recognised and celebrated in the industry through such awards as the ACE's Building Structures Firm of the Year 2014 and by being awarded the Queens Award for Enterprise and International Trade in 2015.



Category 1: Buildings

1