



OVERVIEW

Blast Panels for nuclear test

Oxford

Anderton Concrete

As part of the ongoing research in small scale nuclear production, testing of a new form of fusion was required.

To enable this Anderton Concrete were commissioned to cast 48 number concrete panels in varying sizes up to 4.3M long and between 200mm and 350mm thick.

The testing required that the mesh reinforcement for the concrete panels was non-metallic and non-magnetic. For this reason, Orlitech BFRP (Basalt Fibre Reinforced Polymer) was chosen. Orlitech have a unique connection nodule which allows production and supply of preformed mesh from bars of up to 16mm diameter.

Given the parameters for the design Orlimex provided calculations in accordance with ACI 440 and preformed mesh with BFRP C-shaped spacers were manufactured and delivered to Anderton Concrete for production of the blast panels.

Orlitech can produce mesh in standard sizes from 3.1M x 2.1M and 4.8M x 2.4M or if required we can produce meshes to suit specific site requirements.



DURABLE-RESISTANT TO CORROSION, ALKALI & ACIDS-DIELECTRIC-LOW EMBODIED CARBON