



Guy's and St. Thomas' Hospitals

Project overview

While the history of Guy's and St. Thomas' stretches back almost a millennium, the hospitals have a well deserved reputation for looking to the future. Their decision to commission the building of a TomoTherapy® treatment centre underlines a desire to offer the latest medical advances to its patients. Calder Industrial Materials, the European leaders in lead radiation shielding, provided a bespoke solution capable of satisfying the exacting requirements of this unique project.

Duration:

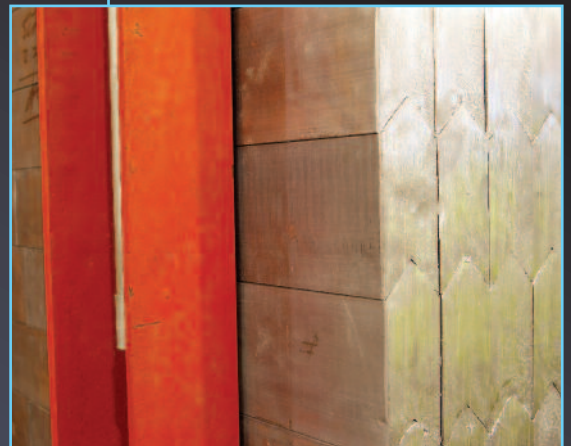
In order to minimise disruption to existing hospital services, only 6 weeks were available for the construction of the radiation shielding system in the new TomoTherapy® room.

Constraints:

These busy hospitals in the centre of London treat over 900,000 patients each year. Ensuring their clinical performance was not impacted by the build was paramount.

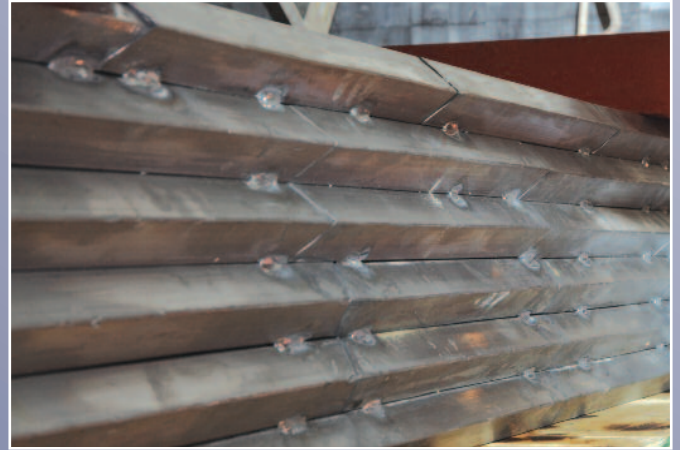
Project controllers:

Overall responsibility lay with Guy's and St. Thomas' NHS Foundation trust. QMP Consultants managed the overall design and build of the new unit.



Safety is paramount

Building a new high radiation unit inside the existing hospital structure presented several challenges for The Trust's design team. Satisfying their desire to create the most pleasant treatment facility possible within the physical constraints of the site led them to Calder. Calder were asked to supply lead shielding that guaranteed operator safety and maximised available floor space.



TomoTherapy® unit



St. Thomas' Hospital

Bespoke lead shielding

The modular design of Calder's Chevron Rail System was perfectly suited to the limited space available at Guy's and St. Thomas'. Working closely with the TomoTherapy® machine suppliers and QMP Consultants they developed a bespoke shielding scheme which varied overall wall thicknesses without compromising safety.

Fast installation

Only 6 weeks were available in the programme for the installation of lead shielding. Calder manufactured the shielding to an exacting specification and delivered it to site on time. An important criteria for the bunker was also to provide the right specification of a heavy shielded door. Calder supplied a 20mm sliding design door weighing 1 tonne - this type of lead door has been used all over Europe for similar Tomotherapy suites. The installation team then installed 82 tons of chevron rail shielding in just 5 weeks. The new TomoTherapy® suite will further enhance the hospital's status as a centre of excellence.

“ I have been really impressed with the commitment and dedication to doing a good job shown by the Calder team. They were really helpful with problem solving and have been very responsive to our challenging shielding requirements for this build. ”

David Gallacher, Deputy Radiation Protection Adviser,
Guy's and St Thomas' NHS Foundation Trust



Call today for more details.

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