



Screed – Royal Liverpool Hospital – CT Scanner Room



Project details:

As part of the redevelopment of the C T Scanning room at the Royal Liverpool Hospital, the surrounding walls had to be cast using Magnetite heavyweight concrete to provide radiation shielding. As this type of concrete is typically over 3000kg/m³ the increased weight needed to be compensated for in the structure. This is where a Lytag® lightweight aggregate (LWA) screed provided a solution, reducing the weight of the screeded area by over 50%.

As this was a working hospital the redevelopment needed to be completed within a short time window and with as little disruption as possible. As a fast drying flooring method was required. Atherden Fuller Leng specified a Lytag® LWA screed based coat. ALD Plastering of Nottingham decided to use Lytag® Dry Packed 4/8mm LWA. As there was limited access via an external temporary lift, this gave them flexibility of storage, manual handling advantages, site batching quality control and using the dry Lytag® LWA and Ardex A35 rapid setting and drying cement allowed them to lay the Lytag® LWA basecoat and put the thin topping screed on after 5 hours. Usually this would be done 24 hours later.

The depth of the Lytag® LWA screed was between 30mm & 60mm. The mix was site batched where ALD used a forced action mixer using around 3m³ of packed Lytag® LWA.

Project:

The Royal Liverpool Hospital
CT scanner redevelopment

Date:

April 2010

Client:

NHS

Architect:

Atherden Fuller Leng

Structural Engineer:

Atherden Fuller Leng

Main Contractor:

ALD Plastering, Nottingham

