

## Hay's Dock Lerwick (Shetland Islands) - Scotland



The Marriott Hotel was once the old control tower and terminal building for Liverpool Airport. With increased demand two new wings have been added in the same Art Deco style.

However in order for pedestrians to access the new development the two existing circular staircases needed to be extended through approx 140° and also rise by approx 750 mm (30 inches). The Architect did not wish for the cantilevered 'I' beams to be bolted to the brick wall with conventional end plates as they would remain visible and so the contracted engineers and Cintec produced a design of casting them in.

A 200 mm (8 inch) diameter, 450mm (18 inch) deep hole was hand cored by diamond drilling into the brickwork. All the 100 x 100 (4x4) 'I' beams were fixed to supporting scaffold after insertion and leveled by surveyors. The work was carried out in 2000 by the Liverpool branch of Terminix. Formerly Peter Cox.



Insertion of Cintec anchor section of 'I' beam into brickwork.



'I' beam following anchor grout injection.



All installed 'I' beams leveled and supported as grout Hardens.