

BRODICK HOUSE TOWER HAMLETS, BOW, LONDON

Cintec International Ltd were specified by structural consulting engineers Engineering Design Associates to supply their anchors on this 21 floor tower block refurbishment project in Bow, East London



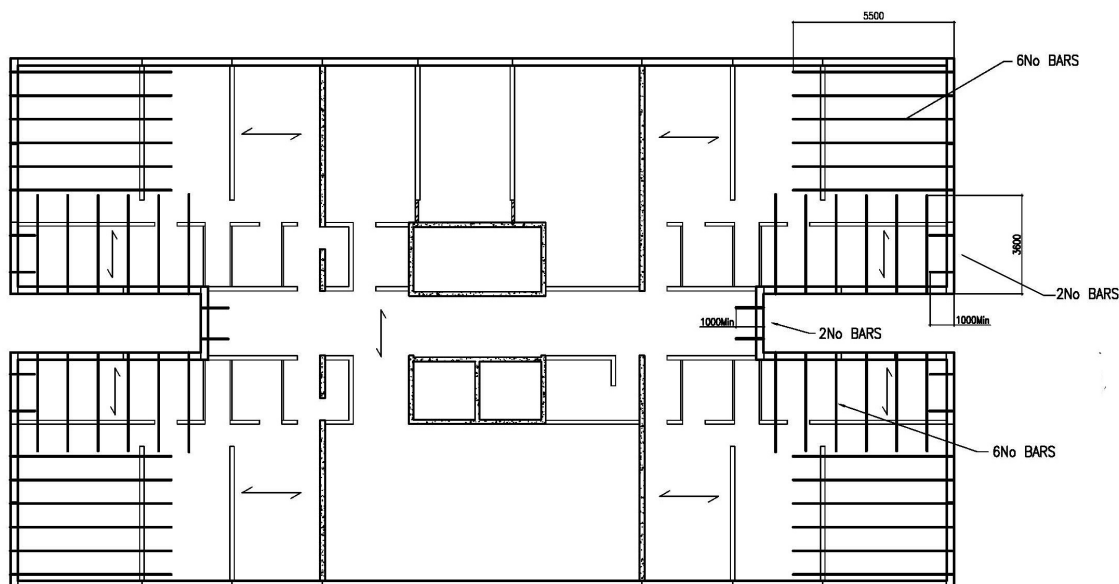
The London Borough of Tower Hamlets required the top six floors to be strengthened in against progressive collapse in the event of an explosion.

Main contractors Axis Europe Ltd appointed Structural engineers Engineering Design Associates to undertake a survey and report of the condition of the LPS (Large Panel System) block.

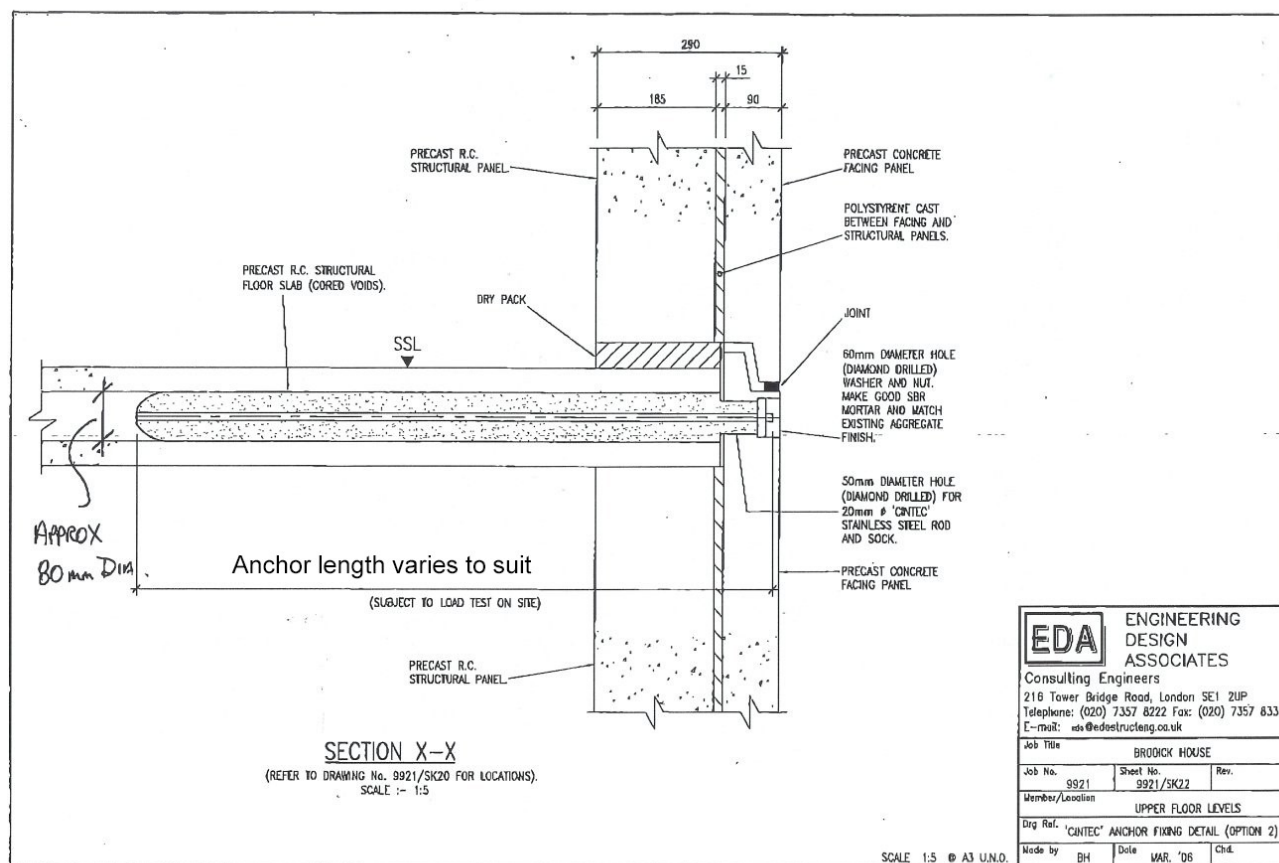
Anchors were required to a horizontal tie force equivalent to 60 kN/m run in the ultimate limit state.

There were installed a combination of 385 no 20mm diameter Cintec grouted anchors in an 80mm hole, of varying lengths, into the floor structure.

Anchors were arranged at intervals along both gable ends and into the recessed area adjacent to the central corridor.

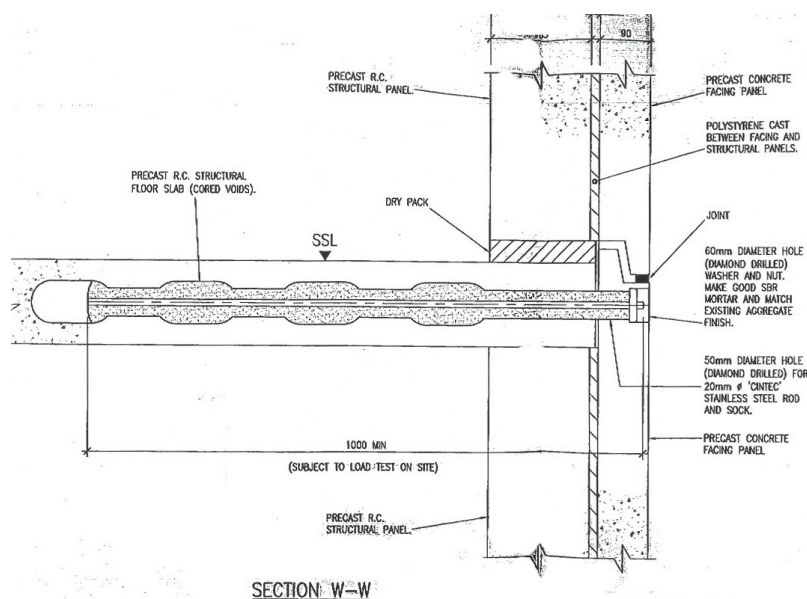


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There were installed a combination of 385 no 20mm diameter Cintec grouted anchors in an 80mm hole, of varying lengths, into the floor structure of the top six floors in order to re-strain the structure against progressive collapse in the event of an explosion before the whole block was covered in an external insulated cladding system by others.

Due to the nature of construction, wet diamond core drilling must be kept to a minimum to prevent disturbance to the residents of the block. The contract was completed successfully and on time and budget in 2016 by Cintec installation contractor Falcon Structural Repairs Ltd.



The Cintec patented anchor system is ideal for projects of this nature as it allows the structural engineer full flexibility of design thereby affording a solution for each and every occasion not matter what the form of construction is encountered or the variety of forces to be catered for.

The cementitious grout contains no resin and therefore satisfies all fire safety regulations. Additionally as the grout is injected into the expanding sock the embedment of the anchor into the substrate is assured and with no grout loss into adjoining voids or cavities.