

Project
250 City Road, London EC1

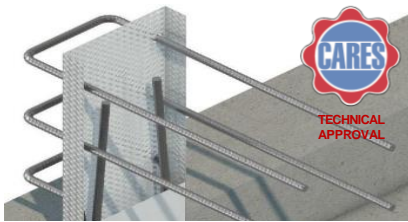
Client/Main Contractor
Berkeley Group

RC Frame
Expanded Structures

Architect
Foster and Partners

Engineer
Ramboll

Product(s) supplied
FERBOX® Reinforcement
Continuity System



About Invisible Connections

Invisible Connections is the registered trademark of Invisible Connections AS, Norwegian developer of telescopic connection systems used worldwide. The ETA approved connectors solve two key construction applications; 'invisible' connections for precast staircase construction and 'invisible' connections for precast beam construction.

To enhance its offering to the UK market, Invisible Connections Ltd also supplies the CARES approved FERBOX reinforcement continuity system, which is bespoke manufactured for in situ concrete connections.

Our products appeal to precast concrete manufacturers and in situ concrete frame contractors who appreciate the fuss free ease with which precast or In situ elements can be connected.

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Project description

250 City Road creates a new landmark for London at the heart of one of the most vibrant areas of the capital. At 42 storeys high, this impressive tower provides breathtaking views and a host of world-class services for its residents.

Our role

Laing O'Rourke's Expanded division was awarded the £40m concrete package for substructure and superstructure on Phase 1, comprising construction of the basement, podium slab, 5 low rise blocks and the 42 storey main tower. Invisible Connections provided a bespoke solution for a challenging continuity strip design. The application called for a twin 'L'-Bar arrangement with 16mm bars at 100mm centres, set apart vertically by just 125mm, with the added consideration of extra long anchorage legs.

Outcome

Utilising Invisible Connections' bespoke manufacturing capabilities, an offset case detail was designed to house the bars, and a staggered hole pattern was used to allow the bars to lay perpendicular during site installation. As the structure developed, there was a need to evolve the design, due to the presence of a precast plank beneath the in situ slab. To resolve the issue, the orientation of the casing was inverted during manufacture.

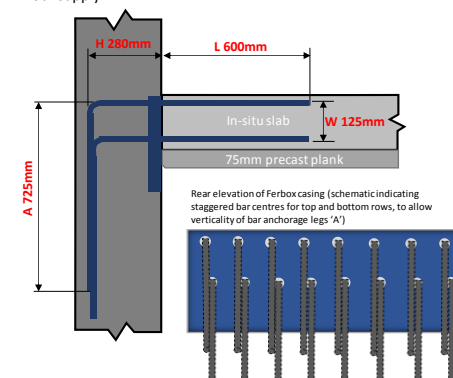
Product



FERBOX units stacked for palletisation

Application

Initial supply



Evolved supply

