



Project

London 2012 Olympic Athletes' Village

Main Contractor

Lendlease

Precaster

Trent Concrete / Techrete

Architect

Various (12)

Engineer

AKT II

Product(s) supplied

DTS 150



About Invisible Connections

Invisible Connections is the registered trademark of SB Produksjon AS, Norwegian developer and manufacturer of the telescopic connectors range for nearly 30 years. In this time, hundreds of thousands of connectors have been used in construction projects around the world.

From a buildability perspective, our ETA approved products appeal typically 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. Our products also provide design freedom for architects, who appreciate the aesthetic benefits of 'clean lines' wherever concrete elements are joined.

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Project description

The Athletes' Village for the London 2012 Olympic and Paralympic Games comprised a series of 8 and 9 storey accommodation blocks. Connecting these were a series of deck units, forming enclosed/glazed bridges. These deck units had to be installed after the blocks were constructed, and had to allow maximum installation tolerance as well as the ability to allow expansion movement between the blocks.

Our role

We were called in by the Precaster to produce an alternative to the specified support of large stainless steel angles. The problems with these were cost, practicality, appearance, and the need to work outside the building line. In addition, the connection needed to span a considerable distance between the bridge and structure, to accept a thick layer of vertical insulation. The alternative we proposed was a special version of the TSS stair connector, with a higher capacity.

Outcome

The TSS telescopic connectors allowed precasting to continue offsite whilst the blocks were being constructed. Recesses left in the slab edges accepted the sliding connectors. The precast decks were offered up between the adjacent accommodation blocks and fitted perfectly every time. The modified TSS connectors are now a standard part of the Invisible Connections range, and branded as 'DTS'.

Application



Footnote

At the time of this project, Invisible Connections' products were supplied via J&P Building Systems Ltd. In 2014, Invisible Connections Ltd was formed to create specific focus on the telescopic connectors range.