



Case Study

**Project**  
Skanska Bentley Works,  
Doncaster

**Main Contractor**  
Skanska

**Precaster**  
Buchan Concrete Solutions

**Architect**  
IBI Taylor Young

**Engineer**  
Elluc Projects

**Product(s) supplied**  
BSF beam to column  
connectors



**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**

The Skanska Bentley Works is a redevelopment of 5,000 sqm of workshops and offices, designed and built to the highest environmental standards. The buildings are defined by Skanska as 'Deep Green', meaning they have a near zero impact on the environment and are future proof. Offsite construction methods enabled the building shell to be assembled in just 4 weeks.

**Our role**

To help Skanska meet their ambitious timescale for construction, we were engaged to provide engineering advice regarding precast concrete connections. BSF telescopic connectors were used instead of corbels to join the precast columns and beams, forming the concrete frame of the building.

**Outcome**

Using the unique BSF telescopic connectors range, the precast columns and beams were constructed quickly and accurately. Offsite construction ensured high levels of safety and reduced wastage. Skanska was so impressed with the BSF connection system and the pace of construction that a team of Skanska engineers and designers from Sweden visited the site to take learnings for future projects.

**Product application**

