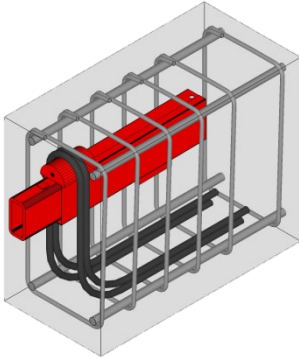


Product range

DTS Telescopic Connectors



Application



DTS in floor units



Floor units spanning considerable distance between structures



DTF in Double Tee floor elements

Precast Concrete Frame Connections

DTS Mid Load Telescopic Connectors

The DTS is a versatile and structurally efficient connector for loads up to 150kN. Originally designed for Double Tee floors, but also a perfect solution for small beam connections. Can accommodate round columns or skewed angle connections.

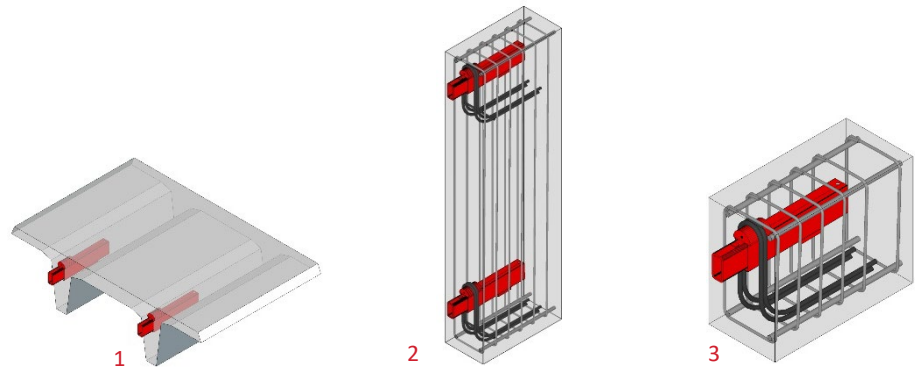
DTS connectors are a problem solver for miscellaneous applications which fall between the performance parameters of TSS/RVK stair landing connectors and BSF beam and column connectors.

Application

DTS connectors are used for a diverse range of applications, including:

- Connecting beams to beams and beams to columns
- Linking wall units to columns
- Fixing beams at unusual angles
- Joining beams to round columns

Different configurations according to precast element shape and loadings are possible. **Technical enquiry forms** are available to download:



- 1 Double Tee floor unit
- 2 Walls with rectangular cross section
- 3 Beam with rectangular cross section

For other applications, please contact us for free technical and practical advice on product selection and installation.

Product features

- Cord operated to deploy sliding inner tube
- Telescopic connector for joining lightweight beam connections or Double Tee floor elements.
- Ideally suited for installing into continual, vertical elements where the sliding inner can be extended outwards into recesses cast into columns or walls
- Grade S355 (minimum) steel is used for its high stress capacity
- Available in 2 variants

Fire resistance

Grouting around the connector (in the airgap between the concrete elements) provides equivalent cover as concrete, therefore 40mm grout cover will give 2 hours fire resistance.

Use in combination with
**REDiBOX® Concrete Wall
 Permanent Recess Former**

REDiBOX PRF-STD (standard version)

Provides generous tolerance to receive DTS inner tube. Eliminates traditional digging-out of polystyrene or timber.



Use with

- DTS 120
- DTS 150

For DTS applications only, the REDiBOX is oriented as shown.

About Invisible Connections

We are the specialists in hidden structural connections for precast and in situ construction. Our range of telescopic connectors are purpose-designed to overcome the challenges of traditional construction and have multiple applications. We are also the manufacturers of FERBOX® bespoke reinforcement continuity strip.

All our products meet industry demands for improved safety, construction efficiency and cost competitiveness.

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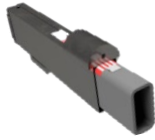
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Precast Concrete Frame Connections

DTS Telescopic Connectors

DTS product range



DTS 120 and DTS 150 (Cord Operated, Multi-Application)

There are two connectors in the range to accommodate different vertical shear capacities:

- DTS 120 up to 120kN
- DTS 150 up to 150kN

Use with REDiBOX PRF-STD (standard version) orientated vertically, together with a steel plate to distribute the forces in the pocket to prevent concrete crushing.

Capacity

Capacity is up to 150kN, making the DTS ideal for smaller beams or heavy slabs. To ensure lean and cost-efficient design, DTS connectors are available in standard capacities of 120kN and 150kN. Connectors may be used in pairs for even higher load requirements although, in this instance, the BSF range may be a more compact solution. Integral bearing blocks for correct seating of local reinforcement and to avoid localised crushing or cracking are incorporated.

REDiBOX Permanent Recess Formers

DTS telescopic connectors are designed to work in conjunction with a REDiBOX permanent recess former - a 'left in' component used to create recesses in precast or in situ walls to flexibly accommodate the DTS sliding inner section.

Resources

Up to date product information is available in the **Resources** section of invisibleconnections.co.uk, including **case studies**, **videos**, **published articles**, **technical literature** and **drawings**. You can also download our **brochure** or **cost comparison study**.

Standards

Design is in accordance with the following standards:

Eurocode 2: Design of concrete structures Part 1-1 General rules and rules for buildings

Eurocode 3: Design of steel structures Part 1-1 General rules and rules for buildings

Eurocode 3: Design of steel structures Part 1-8 Design of joints.

For technical and practical advice call

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