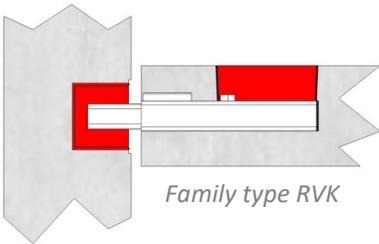
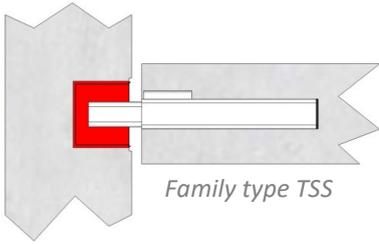


Product range
Telescopic Stair
Landing Connectors

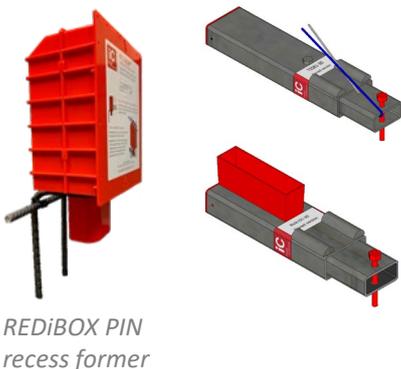
Product options



Product family for 3-sided layout



**Product family for 2-sided layout
(pinned connector types)**



Telescopic Connectors for Stair Landings

The ABC of Who Does What

What you need to know

Installing precast concrete stairs with Telescopic Connectors offers safety, cost and aesthetic advantages over traditional installation methods (usually rolled steel angle supports). The advantages of telescopic connectors can be realised best of all when a simple process of actions and communications between parties is understood and followed. The following information has been prepared as an idealised simple summary of who does what, and when.



RIBA
Plan of Work
2020

Our specifying process aligns with stages 2 to 4 of the RIBA Plan of Work, with emphasis at stages 3 and 4

2



Concept
Design

3



Spatial
Coordination

4



Technical
Design

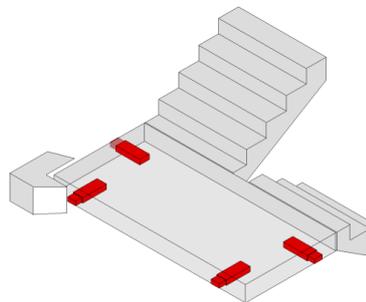
A Architect or Structural Engineer specifies precast concrete stairs and landings, incorporating 'Telescopic Connectors by Invisible Connections'

It's optional at this stage whether to specify the telescopic connector type (there are two families of telescopic connector for stair landings; the RVK range offers the advantage of bolt-method ejection and is often preferred where a screed is to be applied; the TSS range is wire-string ejected and offers the advantage of no marking on top of the landing - preferred where the precast is to be used as factory-finished (fair-faced/no site applied topping).

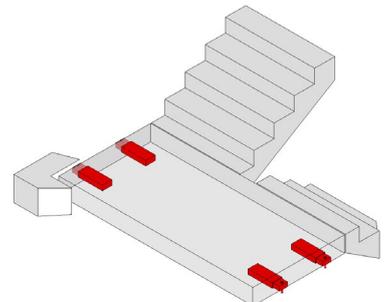
If the landings are surrounded by walls on three sides, it is suggested that a '3-sided' layout arrangement be adopted (best aesthetics and lowest cost). If the landings can only be supported on two sides (ends), it is suggested that 'pinned' versions of the telescopic connectors are specified. Both layouts ordinarily satisfy building code requirements for robustness.

A nominal layout of telescopic connectors can be indicated on drawings in a similar manner as shown here (other layouts are also possible):

Landing with connectors on three sides



Landing with connectors on two sides



Note: A detailed design is unlikely to be possible at this early stage, as the precast manufacturer's input will be required (see step C).

For technical and practical advice call **+44 (0)1844 266000**

About Invisible Connections

We supply the concrete construction industry with 'unseen' telescopic connection systems for stairs, landings, beams and columns. We are also specialist manufacturers of the FERBOX® reinforcement continuity system, to application requirements.

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

Our telescopic connection systems are endorsed by European Technical Approvals (ETAs). They comply with relevant Eurocode standards and are individually CE marked.

Technical support

Our technical team at Invisible Connections is on hand at any stage to provide guidance for suitable product selection.

Telescopic Connectors for Stair Landings

The ABC of Who Does What



B Main contractor is appointed

Given that core walls are normally the first part of the superstructure to be constructed, the main contractor needs to be aware of the need for early appointment and engagement of the precast manufacturer, so that detailed stair design can be developed (see step C) and connector/wall recess locations can be determined.

Note: The precaster will sometimes be appointed by the main contractor, but is increasingly appointed by the concrete frame contractor.

C Concrete frame contractor and/or precaster are appointed

The concrete frame subcontractor needs to be aware of the inclusion of telescopic connectors as it will be necessary to install REDiBOX® recess formers in the core walls. The REDiBOX locations can only be determined as a result of telescopic connector positions in the precast landings.



Therefore, unless the precaster is already appointed by the main contractor, the frame contractor needs to appoint the precast subcontractor early, so that the precaster can commence design of the precast stair elements.

Invisible Connections then liaises with the precaster to obtain the preferred break-down of precast elements, the geometry of the elements and the load data. From this information, Invisible Connections advises on suitable product selection and provides design calculations (for the connections only) to the precaster, for the precaster's onward submission and approval.

The precaster prepares drawings for the precast stair elements, incorporating telescopic connectors, along with details of the wall-to-landing interface which enables setting-out (vertically and horizontally) of REDiBOX recess formers in the core walls.