



Product Info

**Product**

**REDiBOX®**

Permanent Recess Former

**Version**

**REDiBOX® PRF-PIN**

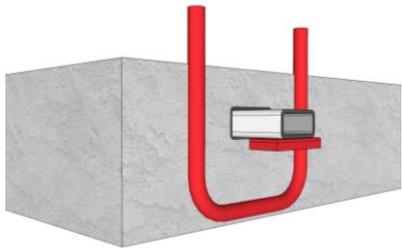
**Used in combination with**

**RVK 101-30 & TSS 81-30  
Stair Connectors**



**Associated accessories from iC**

Levelling shims and foam rod



**About Invisible Connections**

Invisible Connections is the registered trademark of Invisible Connections AS, the 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.

**Invisible Connections Ltd**

Unit 6, Thame Forty  
Jane Morbey Road  
Thame, Oxfordshire OX9 3RR  
+44 (0)1844 266000  
sales@invisibleconnections.co.uk  
invisibleconnections.co.uk

ICU/RED/PRF/PIN/0219

**REDiBOX® PRF-PIN (Pinned Version)**

A purpose-designed 'left-in' component for easy forming of recesses in concrete core walls (precast or in situ) enabling efficient precast landing connections, especially suitable when the landing can only be fixed on two ends.

Sized and configured to receive sliding inner sections of RVK 101-30 or TSS 81-30 Telescopic Stair Connectors; either product combination accommodates shear load requirements but additionally provides an axial 'tie' connection (up to 30kN) between the precast landing and wall, satisfying UK design requirements for robustness.

The REDiBOX PRF-PIN is manufactured from durable and environmentally recyclable HDPE. Its design provides +30/-10mm vertical tolerance (relevant to top of landing) and +/-40mm (min) horizontally.

**Product features**

The embedded box element is heavily ribbed on all sides, comprehensively anchoring it into the concrete wall and maintaining the shape of the recess former under pour pressure. The unit is completely sealed, which ensures the recess will be clean once the face-plate is removed.

The REDiBOX is supplied exactly as shown (top right image) including the 3D restraint U-bar with wire-tied crossbar. The white rebar tie-pin is conveniently housed inside the back of the recess former, easily accessed to position it through the holes in the telescopic connector and into the lower pocket of the recess former (thus enabling the axial tie).

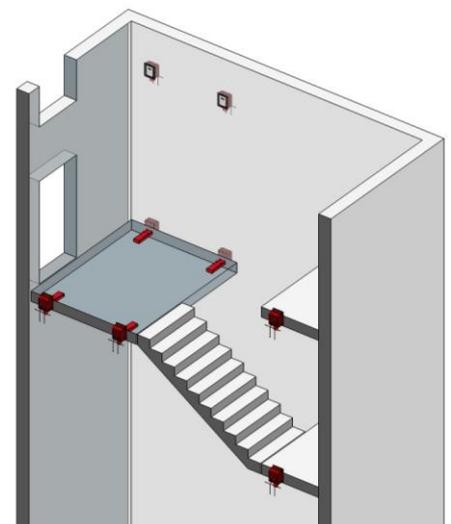
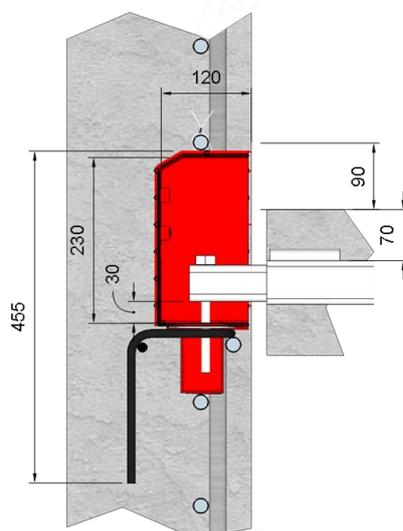
The face-plate can be nailed to timber moulds or shutters. The integral lugs (two on three sides) provide fixing points to tie-wire the unit to the main wall reinforcement (ideal for slip-forms). Alternatively, the entire unit can be secured into position using loose 'trapping bars' (not supplied) wired back to the main wall reinforcement. The recyclable face-plate incorporates a central 'soft-eye' into which a hammer-claw can be inserted to pull and detach, revealing the clear recess.

**Dimensions and setting-out guidance**

The resultant recess measures (internally) 180mm wide x 230mm high x 120mm deep. Setting-out in the wall should be from the top edge of the face-plate, which should be 90mm above the top of the precast landing (without finishes).

**Making the pinned connection**

The supplied white tie-pin should be removed from its housing just prior to installation of the landing. The landing should be propped or shimmed to level before the inner tube of the telescopic connector is deployed. With the holes in the inner tube now aligned over the lower pocket of the recess former, the white tie-pin should be dropped through the connector and into the pocket (see image below). The recess former should then be filled with a non-shrink grout.



Also available: **REDiBOX PRF-STD** (to suit non-pinned applications)  
EU design registrations 004073187-0001/0002 & 004670107-0001/0002/0003