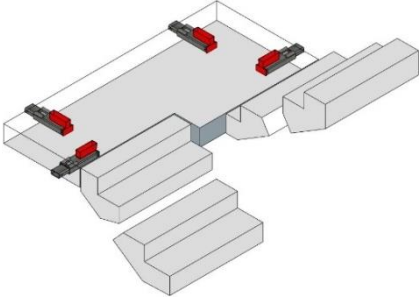
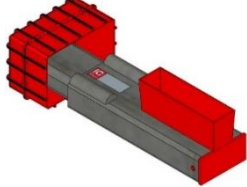
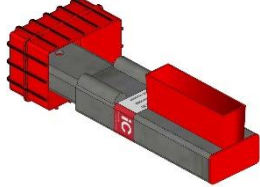
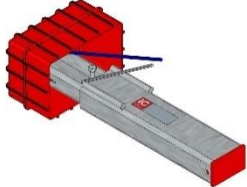
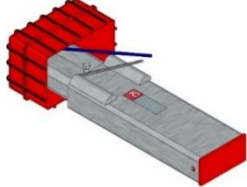
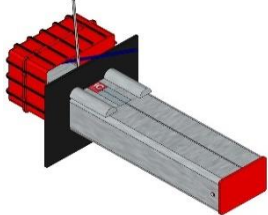
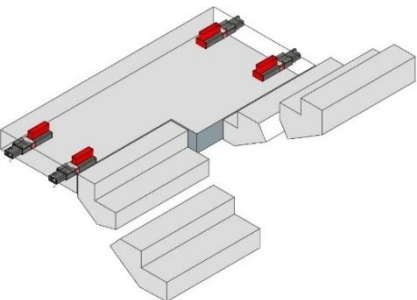
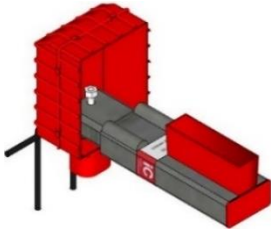
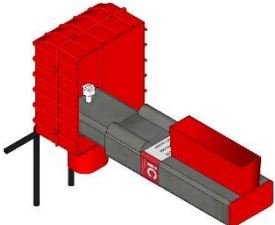
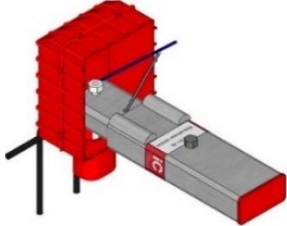


Telescopic Connector Layouts for Landings

Options for Achieving Robustness Design

Background

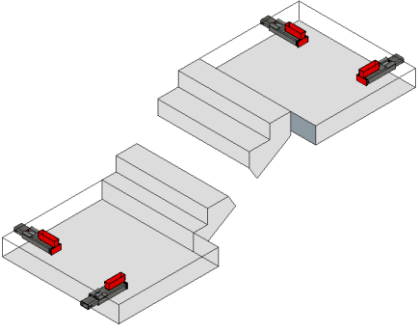
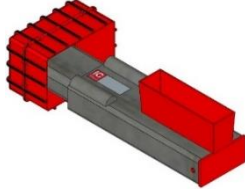
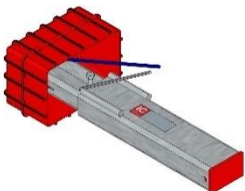
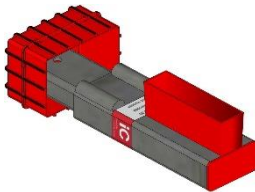
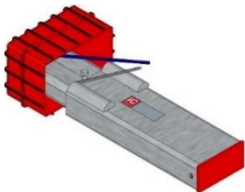
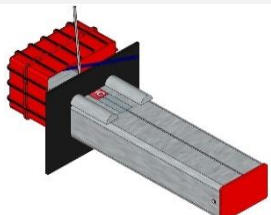
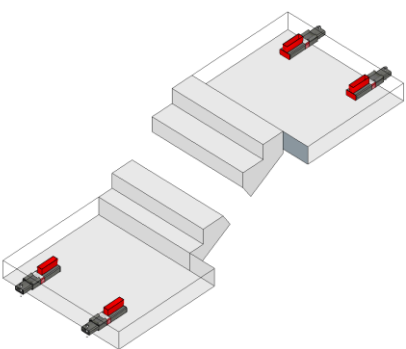
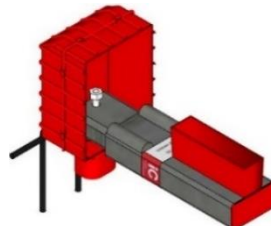
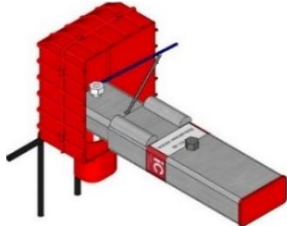
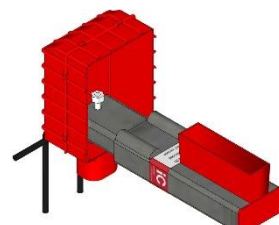
It is a UK requirement for stairs to be adequately tied back to the supporting structure, with a resistance larger than the unfactored dead load of the stair element and whatever it may be supporting. To address this requirement, we offer two connector layout options. For either layout option, different types of connector and recess former can be used, as shown below.

Landings precast independently of stair flights	Telescopic connector system options	
	RVK variant	TSS variant
<p>All three sides layout Layout of connectors creates an X/Y axes interlock and is resisted by the lateral shear capacity of the connectors (see note in next column)</p> 	 <ul data-bbox="555 797 783 853" style="list-style-type: none"> • RVK 101 • REDiBOX PRF (STD)  <ul data-bbox="555 1104 783 1160" style="list-style-type: none"> • RVK 101-30 E20 • REDiBOX PRF (STD) <p data-bbox="571 1216 991 1373"><i>Justification for the 'all three sides layout' is covered in a technical article, published in The Structural Engineer (January 2014), which is available to download from our website</i></p>	 <ul data-bbox="1059 797 1287 853" style="list-style-type: none"> • TSS 41 • REDiBOX PRF (STD)  <ul data-bbox="1059 1104 1287 1160" style="list-style-type: none"> • TSS 101 • REDiBOX PRF (STD)  <ul data-bbox="1059 1406 1287 1462" style="list-style-type: none"> • TSS 102 • REDiBOX PRF (STD)
<p>Two ends only layout Connectors tied into the wall</p> 	 <ul data-bbox="555 1742 791 1798" style="list-style-type: none"> • RVK 101-30 • REDiBOX PRF (PIN)*  <ul data-bbox="555 2085 810 2141" style="list-style-type: none"> • RVK 101-30 E20 • REDiBOX PRF (PIN)* 	 <ul data-bbox="1059 1742 1295 1798" style="list-style-type: none"> • TSS 81-30 • REDiBOX PRF (PIN)* <p data-bbox="1059 1861 1485 2018"><i>Notes – TSS 41, TSS 101 and RVK 101 can also be used in the 'Two Ends Only layout', but an alternative method of tying the landing to the walls needs to be used.</i></p> <p data-bbox="1059 2051 1506 2107"><i>* REDiBOX PRF (PIN) Includes local rebar and anchor pin (as shown).</i></p>

Telescopic Connector Layouts for Landings

Options for Achieving Robustness Design

For free technical and practical advice, call us on **01844 266000**, email technical@invisibleconnections.co.uk or go to invisibleconnections.co.uk

Landings precast integrally with stair flights	Telescopic connector system options	
	RVK variant	TSS variant
<p>All three sides layout Layout of connectors creates an X/Y axes interlock and is resisted by the lateral shear capacity of the connectors (see note in next column)</p> 	 <ul style="list-style-type: none"> • RVK 101 • REDiBOX PRF (STD) 	 <ul style="list-style-type: none"> • TSS 41 • REDiBOX PRF (STD)
	 <ul style="list-style-type: none"> • RVK 101-30 E20 • REDiBOX PRF (STD) 	 <ul style="list-style-type: none"> • TSS 101 • REDiBOX PRF (STD)
	<p><i>Justification for the 'all three sides layout' is covered in a technical article, published in The Structural Engineer (January 2014), which is available to download from our website</i></p>	
		 <ul style="list-style-type: none"> • TSS 102 • REDiBOX PRF (STD)
<p>Two ends only layout Connectors tied into the wall</p> 	 <ul style="list-style-type: none"> • RVK 101-30 • REDiBOX PRF (PIN)* 	 <ul style="list-style-type: none"> • TSS 81-30 • REDiBOX PRF (PIN)*
	 <ul style="list-style-type: none"> • RVK 101-30 E20 • REDiBOX PRF (PIN)* 	<p><i>Notes – TSS 41, TSS 101 and RVK 101 can also be used in the 'Two Ends Only layout', but an alternative method of tying the landing to the walls needs to be used.</i></p> <p><i>* REDiBOX PRF (PIN) Includes local rebar and anchor pin (as shown).</i></p>