

Rationale

It's increasingly common to combine precast concrete stairs and landings with core walls which are poured in-situ. When connection methods are left as an afterthought, using rolled steel angles is often the only practical, yet inefficient, fixing solution.

With a little up-front planning, there's much to gain by incorporating telescopic connectors, which come with a host of advantages; such as improved health and safety, robustness compliance, and significantly improved cost effectiveness.

Featured product

RVK & TSS Telescopic Stair Connection System



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.

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30 REASONS why Telescopic Connectors are more efficient than rolled steel angles for installing precast stairs

FIFTEEN REQUIREMENTS: Rolled Steel Angles	Telescopic Connectors
<ol style="list-style-type: none"> 1 Working platform for drilling/fixing/making-good 2 Feed power supply to work area 3 Skilled tradesmen 4 Tools, including rotary percussion drill 5 HAVS assessment 6 Noise assessment for stair core 'echo chamber' 7 Dust generation assessment (in confined space) 8 Manhandling of heavy steel angle components 9 High accuracy for setting-out angles and fixings 10 Torque-setting of fixings and pull-out tests 11 To work under live landing to shim to level 12 Fire protection of exposed steel angles 13 High demand on crane time 14 Secondary tie solution for robustness 15 Outsourced design engineering advice 	

FIVE RISKS: Rolled Steel Angles	Telescopic Connectors
<ol style="list-style-type: none"> 16 Potential for damaged wall reinforcement 17 Potential for badly installed post-fixed anchors 18 Large air gap created between landing and wall 19 Visible architectural intrusion to soffit 20 Exposure to avoidable health and safety issues 	



TEN ADDITIONAL BENEFITS: Telescopic Connectors

- 21 ETA tested and approved solution
- 22 Robustness solution inherent in product
- 23 Tolerance provision inherent in product
- 24 Rapid installation for maximum productivity
- 25 Curved walls and landings easily connected
- 26 Quiet installation (no 'neighbour annoyance')
- 27 Acoustic connector option
- 28 Off-site DfMA and MMC appeal
- 29 Free design advice service
- 30 Assured cost efficiency

