



Isedio LinearJoint

Technical Data Sheet



Isedio LinearJoint is a durable edge protection system designed for construction joints in post tension slabs or any other application where a large joint opening is expected.

Isedio LinearJoint is a prefabricated joint and cover plate system designed to bridge wide joint openings, particularly in high-traffic areas where a smooth transition is essential. Available in two standard joint widths 60 mm and 90 mm it is ideal for high loads, automated warehouses, and especially in post-tensioned slab-on-ground applications.

Unlike welded or bolted alternatives, the wing anchors on the Isedio LinearJoint are riveted to the top plates, ensuring a robust connection that withstands high cyclic loading and minimizes the risk of failure. The system can be supplied either as a complete prefabricated joint including a divider plate and load transfer dowels or as top plates only, which can be fixed to timber shuttering via pre-designed holes in the wings.

Isedio LinearJoint is fully compatible with Connolly FDB Flanged Dowel Boxes, ensuring efficient and reliable load transfer across the joint.

Material Specification

Top plate	Mild Steel/HDG : Grade 250 HR Stainless Steel: GR 304
Anchor Wings	Mild Steel/HDG : Grade 250 HR Stainless Steel: GR 304
Dowel bar	HDG: Grade 300
Sleeve	Galvanised sheet metal



Easy Installation



Load Transfer Through Plate Dowels



Minimise Joint Maintenance Costs



Engineering Support



Safe Installation



Based on TR34.4



Arris Protection

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Isedio LinearJoint – Full Joint

Slab arris protection is provided by way of the top plates which are continuously anchored to the concrete by perforated angled wings. The joint is designed so that once cast in-situ, as the two slab panels either side of the joint begin to cure and shrink, the joint separates. One slab panel contains the sleeve and one half of the top plate assembly, and the other slab panel has the other half of the top plate assembly, a divider plate and the dowel bars. The square dowel bridges across the joint and is embedded in both slab panels. Using square dowel is essential to resist the dowel bending affect in wider joint opening. The normal plate dowel set up is not adequate for this application. The vertical divider plate creates the formwork and also supports the top plate edge protection and load transfer dowel bars. The FDB Flange Dowel Boxes provide 20mm lateral movement to accommodate large lateral movement within post tensioned slabs. Wider lateral movement FDB is available on request.



Linear Joint Size *	Max Joint Opening (mm)	Dowel Size (mm)	Dowel Spacing (mm)	Joint Length (mm)	Recommended slab height range (mm)
LJ 60	60	25 x 25	328	2300	190-260
LJ 90	90	32 x 32	328	2300	240-310

* Leviat welcomes custom sizes including any joint opening, dowel size and slab height.

For optimal results, it is recommended to consult with Levia Design Engineers who can advise the best size and spacing for dowels.

For load transfer capacities, refer to [Connolly Flange Dowel Box brochure](#) 

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Isedio LinearJoint – Cover Plate

Utilising the cover plate assembly only, the system provides a flexible solution to be nailed on timber formwork to bridge wide joint openings. Slab arris protection is provided by way of the top plates which are continuously anchored to the concrete by perforated angled wings. The joint is designed so that once cast in-situ, as the two slab panels either side of the joint begin to cure and shrink, the joint separates.



Linear Joint Size *	Max Joint Opening (mm)	Joint Length (mm)	Compatible Dowel System
LJT 60	60	2300	Connolly FDB
LJT 90	90	2300	Connolly FDB

* Leviat welcomes custom sizes including any joint opening.

Leviat recommends using FDB Flange Dowel Box (link) as load transfer solution to get the best results.

For load transfer capacities, refer to [Connolly Flange Dowel Box brochure](#) 