

ISEDIO GUARDJOINT LITE ADJUSTABLE

Technical Datasheet

Iседio GuardJoint Lite Adjustable is a zero impact arris protection, leave-in-place formwork and load transfer joint system, suitable for heavy duty industrial concrete floors.

Iседio GuardJoint Lite eliminates impact across the joint from Mechanical Handling Equipment (MHE) such as forklift trucks. The shape of the wave is engineered such that even the smallest wheeled pallet trucks do not cause an impact.

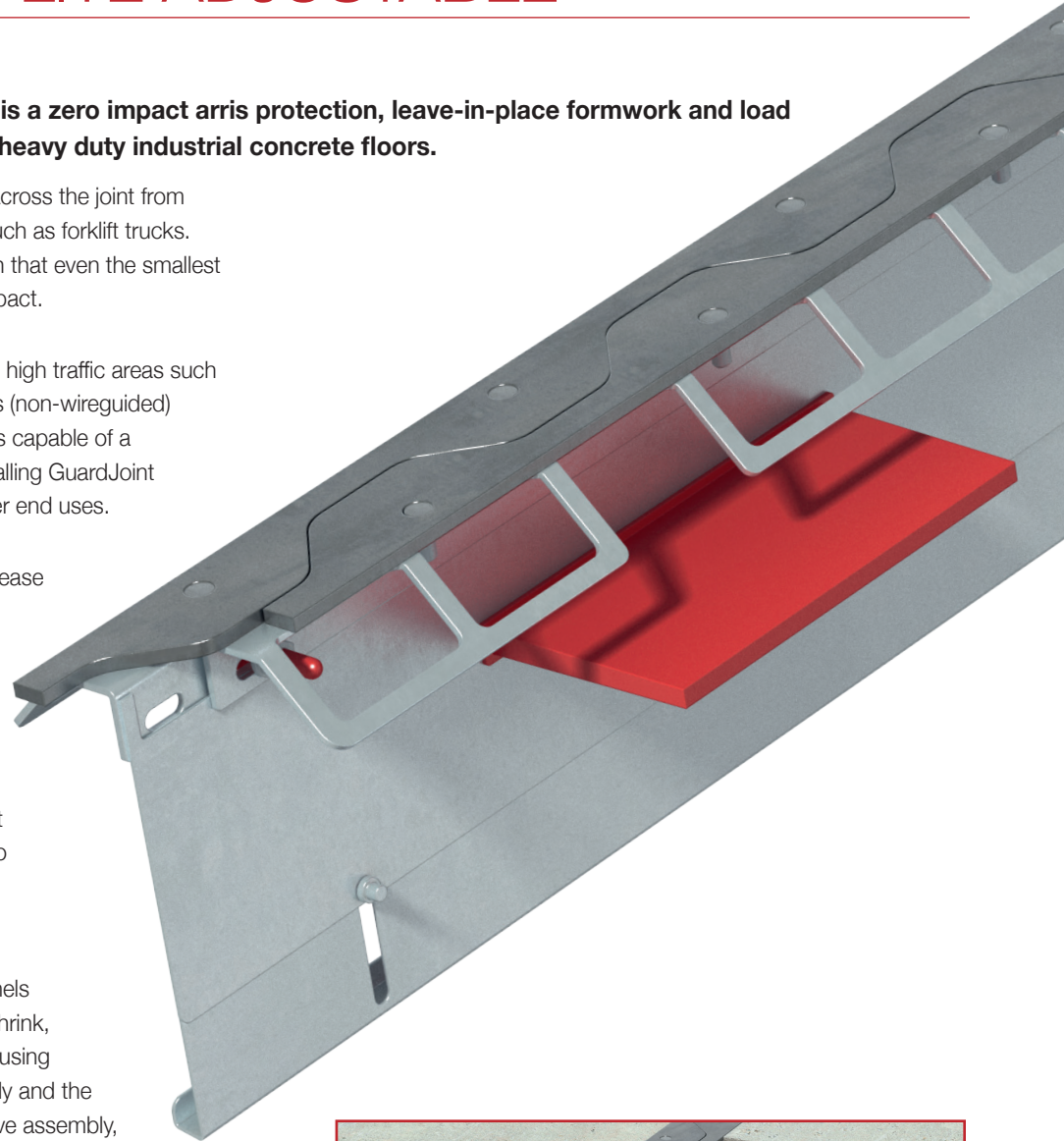
GuardJoint Lite is an excellent solution for high traffic areas such as loading docks, doorways or VNA aisles (non-wireguided) where a transitionless floor is required. It is capable of a maximum joint opening of 15mm. By installing GuardJoint Lite, a floor can be future-proofed for other end uses.

If a sealant free/sealed floor is required, please refer to Iседio ShieldJoint system.

The joint system comprises two horizontal top wave plates with a wave geometry to eliminate impact when driven over. With a top plate width of 61.5mm the wave is engineered such that even the smallest wheeled pallet trucks do not cause an impact. Beneath the wave top plates are load transfer plate dowels and sleeves. The joint is designed such that once cast in-situ, as the two slab panels either side of the joint begin to cure and shrink, the joint separates with one slab panel housing the sleeve and one half top wave assembly and the other panel housing the other half top wave assembly, divider plate and dowel. The dowel bridges across the joint and is embedded in both slab panels.

Formwork for casting a concrete slab is achieved by the vertical divider plate which supports the wave plates and load transfer plate dowels.

Slab arris protection is provided by way of the top wave plates which create a seamless floor thus eliminating impact loads when traversed. The top wave plates are anchored to the concrete by perforated angled wings.



LOAD TRANSFER MECHANISM

Load transfer across the joint is achieved by asymmetric plate dowels and sleeves. The plate dowels are attached to the vertical divider plate and the sleeves are held in place under friction and are detachable as the joint opens up. Using Isedio GuardJoint Lite Adjustable ensures that shear loads are safely transferred across the joint through the plate dowels.

MATERIAL SPECIFICATION

Component	Material
Top Plate	Hot Rolled (can be supplied in stainless steel or hot dip galvanised)
Frangible Fastener	Nylon
Divider Plate	Steel DC01 to BS EN 10130:2006
Load Transfer Dowel Plate	6mm - S275 steel, 8mm & 12mm - S355 steel to BS EN 10025-2:2004
Sleeve	6mm, 8mm & 12mm - PP

TECHNICAL INFORMATION

Description	Dimension & Tolerance
Joint Length	2,800mm +/- 2.0mm
Max. Joint Opening	15mm
Straightness	+/- 0.5mm in 600mm
General Dimensional Tolerance	Dimensions < 12mm +/- 0.5mm Dimensions > 12mm +/- 2.0mm

The Isedio load transfer system complies with TR34, 4th edition, and information on the design capacities are available in the Isedio Load Transfer Information sheet.

5 x 6mm Dowels (560mm Centres)

Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight including packaging (kg)	Max. no. of bundles, weight and metres per truck
100 - 130mm	45 off – 126m	1,862kg	13 Bundles – 24,208kg – 1,638m
130 - 150mm	45 off – 126m	1,906kg	12 Bundles – 22,878kg – 1,512m
150 - 200mm	45 off – 126m	1,972kg	12 Bundles – 23,667kg – 1,512m
200 - 250mm	36 off – 101m	1,655kg	14 Bundles – 23,170kg – 1,411m
250 - 300mm	27 off – 76m	1,308kg	16 Bundles – 20,933kg – 1,210m

5 x 8mm Dowels (560mm Centres)

Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight including packaging (kg)	Max. no. of bundles, weight and metres per truck
100 - 130mm	45 off – 126m	1,930kg	12 Bundles – 23,156kg – 1,512m
130 - 150mm	45 off – 126m	1,974kg	12 Bundles – 23,688kg – 1,512m
150 - 200mm	45 off – 126m	2,040kg	11 Bundles – 22,437kg – 1,386m
200 - 250mm	36 off – 101m	1,709kg	14 Bundles – 23,926kg – 1,411m
250 - 300mm	27 off – 76m	1,349kg	16 Bundles – 21,581kg – 1,210m
300 - 350mm	18 off – 50m	958kg	16 Bundles – 15,329kg – 806m

5 x 12mm Dowels (560mm Centres)

Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight including packaging (kg)	Max. no. of bundles, weight and metres per truck
100 - 130mm	45 off – 126m	2,087kg	11 Bundles – 22,959kg – 1,386m
130 - 150mm	45 off – 126m	2,131kg	11 Bundles – 23,446kg – 1,386m
150 - 200mm	45 off – 126m	2,197kg	10 Bundles – 21,970kg – 1,260m
200 - 250mm	36 off – 101m	1,835kg	13 Bundles – 23,855kg – 1,310m
250 - 300mm	27 off – 76m	1,443kg	16 Bundles – 23,093kg – 1,210m
300 - 350mm	18 off – 50m	1,022kg	16 Bundles – 16,355kg – 806m

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