

# ISEDIO SHIELDJOINT ADJUSTABLE

Technical Datasheet

**Isedio SHIELDJOINT ADJUSTABLE is a leave-in-place formwork, load transfer and edge protection joint system suitable for heavy duty industrial concrete floors.**

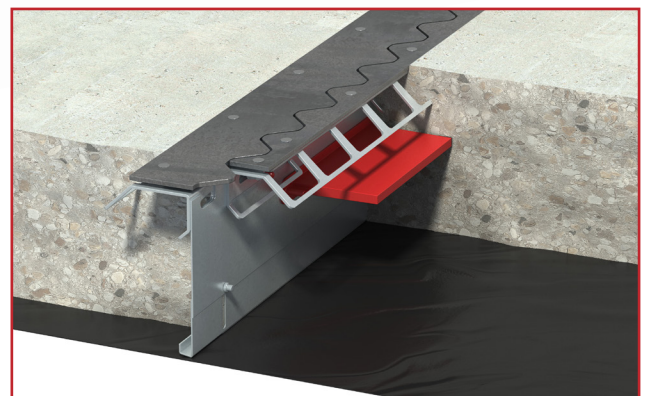
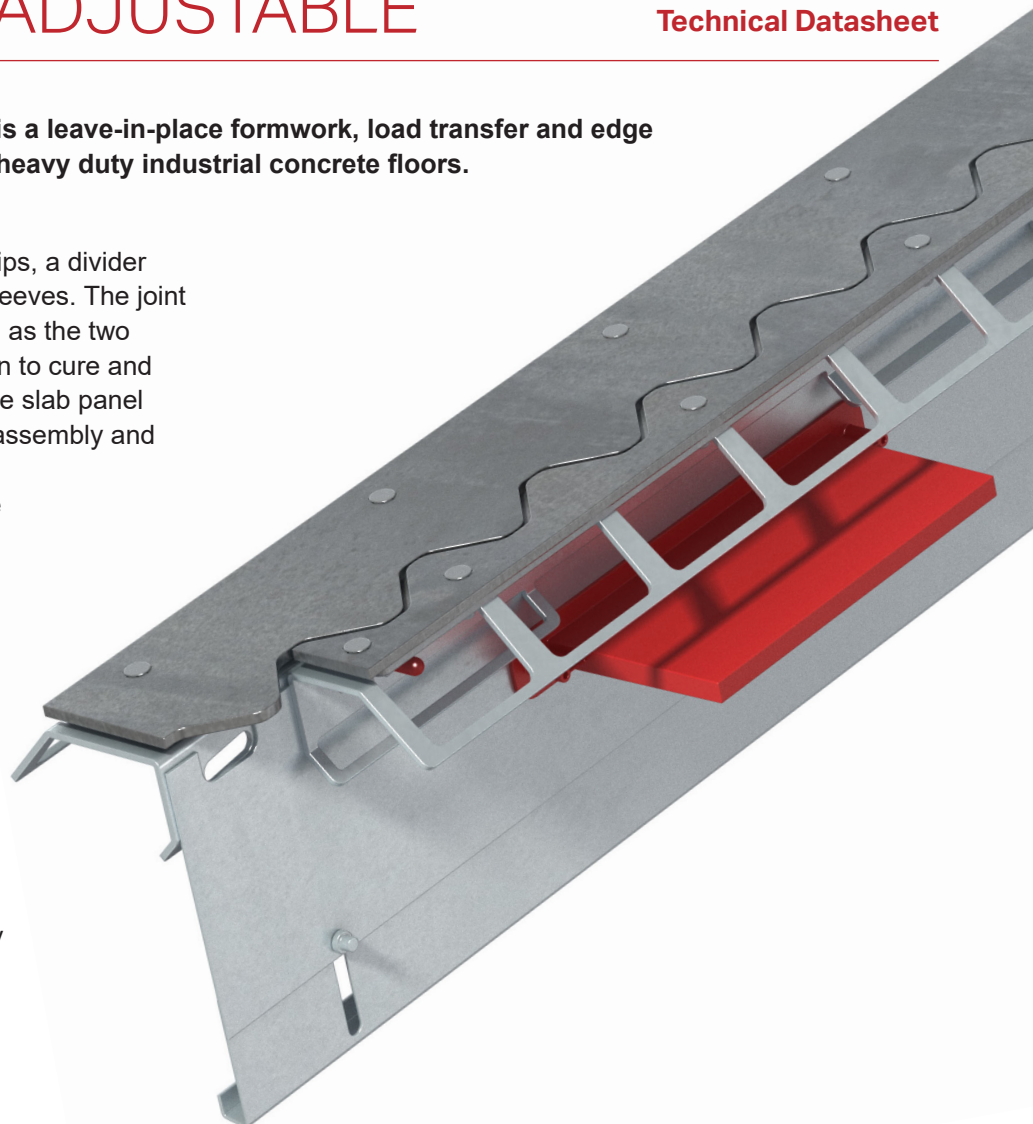
The joint system comprises two top strips, a divider plate, load transfer plate dowels and sleeves. The joint is designed such that once cast-in-situ, as the two slab panels either side of the joint begin to cure and shrink, the joint separates such that one slab panel has the sleeve and one half top wave assembly and the other has 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 top strip edge protection 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 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.

Intersections of joints are accommodated by a common intersection post that creates a corner, tee and 4 way.



## ZERO IMPACT AND NO JOINT SEALING

Isedio SHIELDJOINT is unique since it eliminates impact across the joint from Mechanical Handling Equipment (MHE) such as forklift trucks, but it also does not require any joint sealing. Its clever design ensures that no debris can enter in to the vertical gap between the two slabs. This design feature is useful in foodstuff warehouses or food preparation areas where pest control is paramount (available in stainless steel).

SHIELDJOINT is an excellent solution for high traffic areas such as loading docks, doorways or VNA aisles where a seamless floor is required. A floor can be future-proofed for any possible end use by installing SHIELDJOINT.

The shape of the wave is engineered such that even the smallest pallet wheeled trucks do not cause an impact.

## MATERIAL SPECIFICATION

Component	Material
Top Plate	Hot Rolled and Cold Rolled Steel (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	8mm & 12mm -S355 Steel to BS EN 10025-2:2004
Sleeve	8mm & 12mm - PP

## TECHNICAL INFORMATION

Description	Dimension & Tolerance
Joint Length	1,950mm +/- 2.0mm
Straightness	+/- 0.5mm in 600mm
General Dimensional Tolerance	Dimensions < 12mm +/- 0.5mm Dimensions > 12mm +/- 2.0mm

Information on load transfer capacities can be found on the Load Transfer Capacity Datasheet.

**PACKAGING INFORMATION**

3 x 8mm Dowels (650mm Centres)			
Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight including packaging (kg)	Max. no. of bundles and metres per truck
100 - 130mm	45 off – 87.75m	1,469 kg	16 Bundles – 1,404.0m
130 - 150mm	45 off – 87.75m	1,500 kg	16 Bundles – 1,404.0m
150 - 200mm	45 off – 87.75m	1,521 kg	15 Bundles – 1,316.25m
200 - 250mm	36 off – 70.20m	1,275 kg	18 Bundles – 1,263.60m
250 - 300mm	27 off – 52.65m	1,062 kg	22 Bundles – 1,421.55m
300 - 350mm	18 off – 35.10m	763 kg	24 Bundles – 842.40m

3 x 12mm Dowels (650mm Centres)			
Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight including packaging (kg)	Max. no. of bundles and metres per truck
100 - 130mm	45 off – 87.75m	1,563 kg	14 Bundles – 1,228.50m
130 - 150mm	45 off – 87.75m	1,594 kg	14 Bundles – 1,228.50m
150 - 200mm	45 off – 87.75m	1,615 kg	14 Bundles – 1,228.50m
200 - 250mm	36 off – 70.20m	1,350 kg	17 Bundles – 1,193.40m
250 - 300mm	27 off – 52.65m	1,118 kg	21 Bundles – 1,105.65m
300 - 350mm	18 off – 35.10m	801 kg	24 Bundles – 842.40m

Copyright © 2020 Ancon Ltd trading as Leviat. Errors and omissions excepted. We reserve the right to revise this documentation and to make changes in content from time to time without obligation on the part of Ancon Ltd trading as Leviat to provide notification of such revision or change. Information contained within this document is approximate.