

ISEDIO

ARMOURJOINT FIXED

Technical Datasheet

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

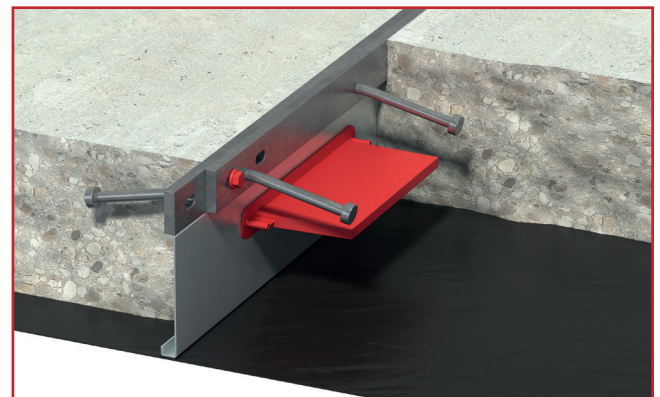
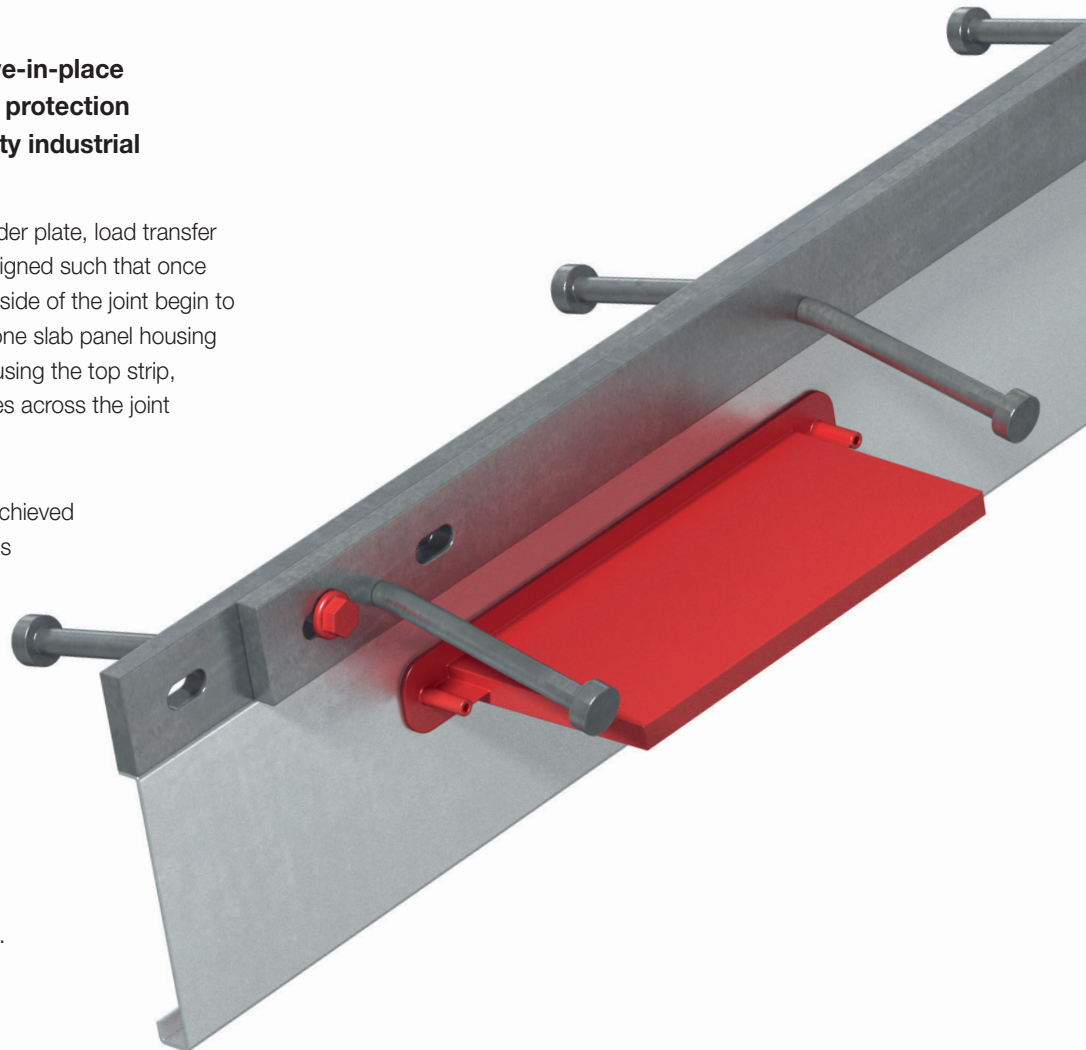
The joint system comprises of a fixed divider plate, load transfer plate dowels and sleeves. The joint is designed such that once cast in-situ, as the two slab panels either side of the joint begin to cure and shrink, the joint separates with one slab panel housing the sleeve and top strip and the other housing the top strip, 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 cold drawn steel top strips with shear studs that anchor the top strips in the concrete.

The special Isedio stud welding machine tests the quality of each stud weld to ensure the relevant specifications are met.

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 for corners, tees and 4 ways are available.



MATERIAL SPECIFICATION

Component	Material
Top Strips	Cold drawn steel to BS EN 10277-2:2008 (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, 8mm & 12mm - S275 & S355 Steel to BS EN 10025-2:2004
Sleeve	6mm, 8mm & 12mm - PP

TECHNICAL DATA

Description	Dimensions & Tolerances
Joint Length	3.000mm +/- 2.0mm
Straightness	+/- 0.5mm in 600mm
General Dimensional Tolerances	Dimensions < 12mm +/- 0.5mm Dimensions > 12mm +/- 2.0mm

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

PACKAGING INFORMATION

5 x 6mm Dowels (600mm centres)			
Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
130mm	49 off - 147m	1,618kg	14 bundles - 22,650kg - 2,058m
140mm	49 off - 147m	1,635kg	14 bundles - 22,891kg - 2,058m
150mm	49 off - 147m	1,652kg	14 bundles - 23,134kg - 2,058m
160mm	42 off - 126m	1,452kg	16 bundles - 23,229kg - 2,016m
170mm	42 off - 126m	1,487kg	16 bundles - 23,466kg - 2,016m
180mm	42 off - 126m	1,481kg	16 bundles - 23,703kg - 2,016m
190mm	42 off - 126m	1,496kg	16 bundles - 23,940kg - 2,016m

5 x 8mm Dowels (600mm centres)			
Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
130mm	49 off - 147m	1,703kg	14 bundles - 23,845kg - 2,058m
140mm	49 off - 147m	1,720kg	13 bundles - 22,367kg - 1,911m
150mm	49 off - 147m	1,738kg	13 bundles - 22,592kg - 1,911m
160mm	42 off - 126m	1,525kg	15 bundles - 22,874kg - 1,890m
170mm	42 off - 126m	1,540kg	15 bundles - 23,097kg - 1,890m
180mm	42 off - 126m	1,554kg	15 bundles - 23,320kg - 1,890m
190mm	42 off - 126m	1,569kg	15 bundles - 23,542kg - 1,890m

5 x 12mm Dowels (600mm centres)			
Joint (mm)	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
130mm	42 off - 126m	1,612kg	14 bundles - 22,566kg - 1,764m
140mm	42 off - 126m	1,627kg	14 bundles - 22,774kg - 1,764m
150mm	42 off - 126m	1,641kg	14 bundles - 22,982kg - 1,764m
160mm	42 off - 126m	1,671kg	14 bundles - 23,399kg - 1,764m
170mm	42 off - 126m	1,686kg	14 bundles - 23,319kg - 1,764m
180mm	42 off - 126m	1,701kg	14 bundles - 23,815kg - 1,764m
190mm	42 off - 126m	1,716kg	13 bundles - 22,307kg - 1,638m

Isedio ArmourJoint Fixed is available in sizes less than 130mm and greater than 190mm, details available upon request.

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