

ISEDIO

ARMOURJOINT ADJUSTABLE

Technical Datasheet

Isedio ArmourJoint Adjustable is an arris protection, load transfer and leave-in-place formwork joint system suitable for heavy duty industrial concrete floors.

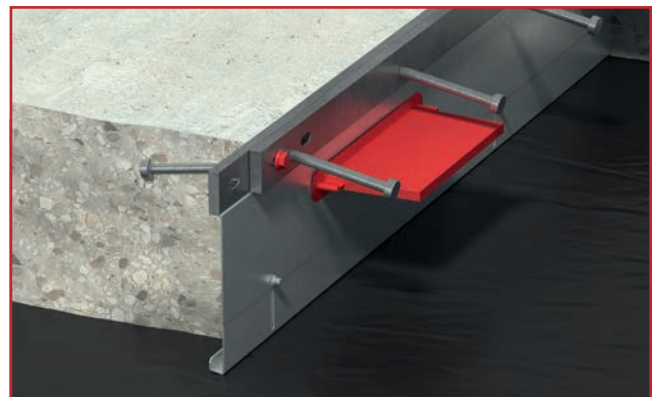
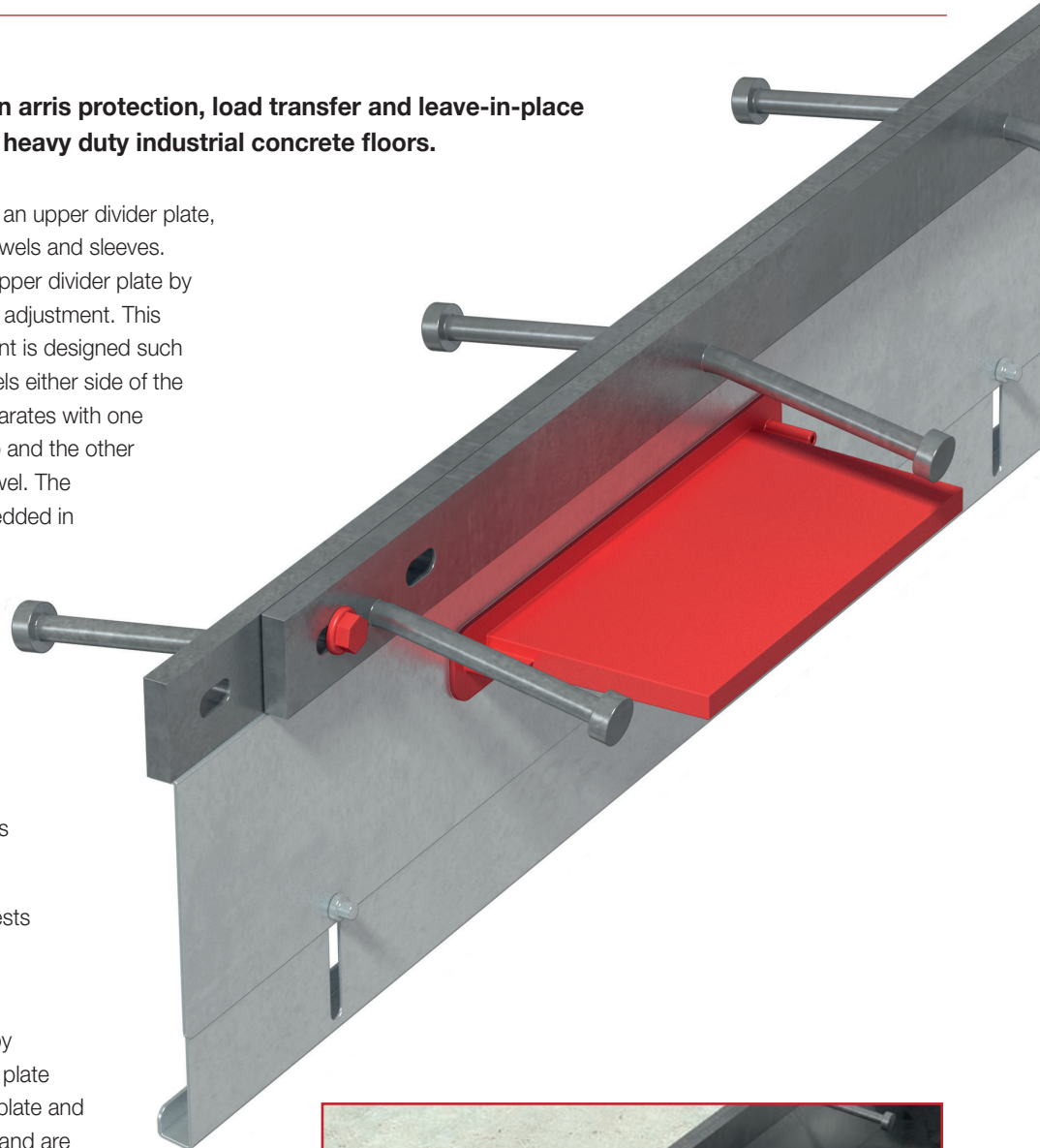
The joint system comprises two top strips, an upper divider plate, a lower divider plate, load transfer plate dowels and sleeves. The lower divider plate is attached to the upper divider plate by a special fastener that requires no tools for adjustment. This innovation is protected by a patent. The joint 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 plates which support 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
Load Transfer Dowel Plate	6mm, 8mm & 12mm - S275 & S355 Steel to BS EN 10025-2:2004
Sleeve (colour, material)	6mm (black, PP), 8mm & 12mm (red, PP)
Lateral Movement Allowance	20mm in each direction

DIMENSIONS

Description	Dimensions & Tolerances
Joint Length	3,000mm +/- 2.0mm
Straightness	+/- 1mm in 1,000mm
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 approx., weight and metres per truck
100 - 130mm	50 off - 150m	1,673kg	14 Bundles - 23,417kg - 2,100m
130 - 150mm	49 off - 147m	1,723kg	13 Bundles - 22,404kg - 1,911m
150 - 200mm	49 off - 147m	1,758kg	13 Bundles - 22,854kg - 1,911m
200 - 250mm	35 off - 105m	1,359kg	16 Bundles - 21,739kg - 1,680m
250 - 300mm	28 off - 84m	1,243kg	15 Bundles - 18,650kg - 1,260m
300 - 350mm	21 off - 63m	1,018kg	16 Bundles - 16,287kg - 1,008m

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 approx., weight and metres per truck
100 - 130mm	50 off - 150m	1,760kg	13 Bundles - 22,877kg - 1,950m
130 - 150mm	49 off - 147m	1,809kg	13 Bundles - 23,515kg - 1,911m
150 - 200mm	49 off - 147m	1,843kg	13 Bundles - 23,965kg - 1,911m
200 - 250mm	35 off - 105m	1,420kg	16 Bundles - 22,715kg - 1,680m
250 - 300mm	28 off - 84m	1,292kg	15 Bundles - 19,382kg - 1,260m
300 - 350mm	21 off - 63m	1,055kg	16 Bundles - 16,873kg - 1,008m

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 approx., weight and metres per truck
100 - 130mm	40 off - 120m	1,555kg	15 Bundles - 23,326kg - 1,800m
130 - 150mm	42 off - 126m	1,702kg	14 Bundles - 23,833kg - 1,764m
150 - 200mm	42 off - 126m	1,747kg	13 Bundles - 22,712kg - 1,638m
200 - 250mm	35 off - 105m	1,542kg	15 Bundles - 23,125kg - 1,575m
250 - 300mm	28 off - 84m	1,390kg	14 Bundles - 19,456kg - 1,176m
300 - 350mm	21 off - 63m	1,128kg	16 Bundles - 18,044kg - 1,008m

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