



## ProGuardJoint

Isedio ProGuardJoint is an arris protection, load transfer and leave-in-place formwork joint system suitable for heavy duty industrial concrete floors. Specially designed for an impact-free and smooth transition across the joint for high traffic areas. The superior quality of the product makes it a suitable choice to achieve the highest flatness standards.

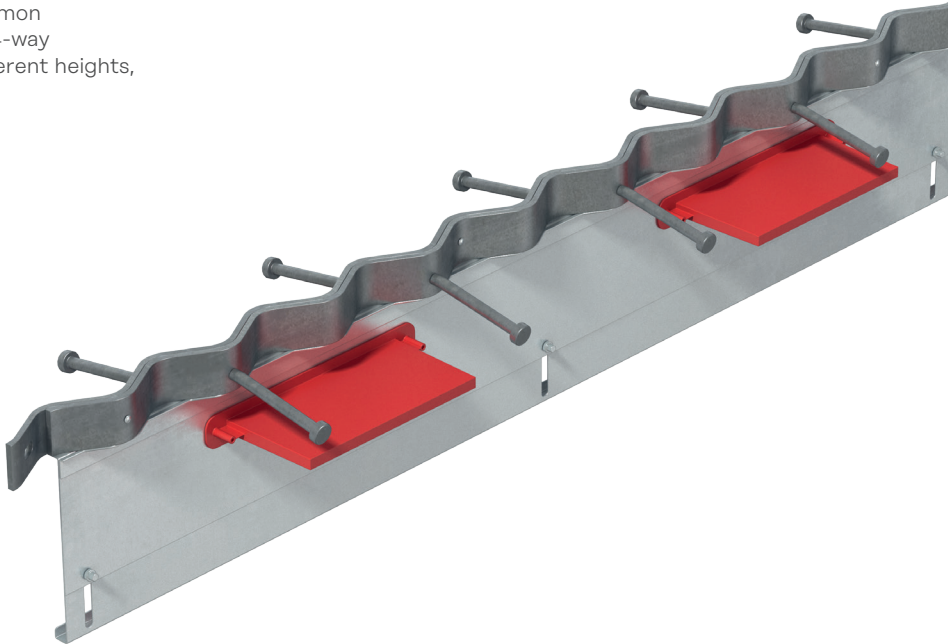
The joint system comprises two wavy shaped top strips, an upper divider plate, a lower divider plate, load transfer plate dowels and sleeves. The lower divider plate is attached to the upper divider plate by a special fastener that requires no tools for adjustment. This innovation is protected by a patent. The joint is designed such that once cast in situ, as the two slab panels on 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 hot rolled steel top strips with shear studs that anchor the top strips in the concrete. The wave pattern allows for 25mm joint opening while providing an impact-free wheel transition.

Our 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.

Intersections of joints are accommodated by a common intersection post that creates a corner, 3-way and 4-way connection. The intersection post is available in different heights, with 50mm adjustability, to suit various slab depths.



### Material Specification

Component	Material
Top Strips	6mm×40mm (nominal) bars S235 to BS 10025:2019
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
Lateral Movement Allowance	20mm in each direction

### Technical Information

Description	Dimension & Tolerance
Joint Length	2185mm +/- 2.0mm
Straightness	+/- 1.0mm in 1000mm
General Dimensional Tolerance	Dimensions < 12mm +/- 0.5mm Dimensions > 12mm +/- 2.0mm

The Iседio ProGuardJoint load transfer system complies with TR34, 4th Edition, and information on the design capacities are available in the Iседio Load Transfer Information Sheet. Find this at [Iседio.com/resources](https://www.isedio.com/resources)

### Packaging

4 x 6mm Dowels (546mm centres)			
Joint	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
100-130mm	50 - 109.3	966.7	20 Bundles - 19,333 - 2,185
130-150mm	49 - 107.1	974.5	20 Bundles - 19,489 - 2,141
150-200mm	49 - 107.1	1,037.7	20 Bundles - 20,754 - 2,141
200-250mm	35 - 76.5	816.8	20 Bundles - 16,336 - 1,530
250-300mm	28 - 61.2	710.9	20 Bundles - 14,214 - 1,224
300-350mm	21 - 45.9	586.9	20 Bundles - 11,738 - 918

4 x 8mm Dowels (546mm centres)			
Joint	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
100-130mm	50 - 109.3	1,065.7	20 Bundles - 21,313 - 2,185
130-150mm	49 - 107.1	1,071.5	20 Bundles - 21,429 - 2,141
150-200mm	49 - 107.1	1,134.7	20 Bundles - 22,694 - 2,141
200-250mm	35 - 76.5	886.1	20 Bundles - 17,722 - 1,530
250-300mm	28 - 61.2	766.3	20 Bundles - 15,326 - 1,224
300-350mm	21 - 45.9	628.5	20 Bundles - 12,570 - 918

4 x 12mm Dowels (546mm centres)			
Joint	Quantity and metres of joint per bundle	Approx. bundle weight inc. packaging (kg)	Max. no. of bundles, weight and metres per truck
100-130mm	50 - 109.3	1,205.7	19 Bundles - 22,907 - 2,076
130-150mm	49 - 107.1	1,208.7	19 Bundles - 22,965 - 2,034
150-200mm	49 - 107.1	1,271.9	19 Bundles - 22,894 - 1,927
200-250mm	35 - 76.5	984.1	20 Bundles - 19,682 - 1,530
250-300mm	28 - 61.2	844.7	20 Bundles - 16,894 - 1,224
300-350mm	21 - 45.9	687.3	20 Bundles - 13,746 - 918