



Isedio

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.

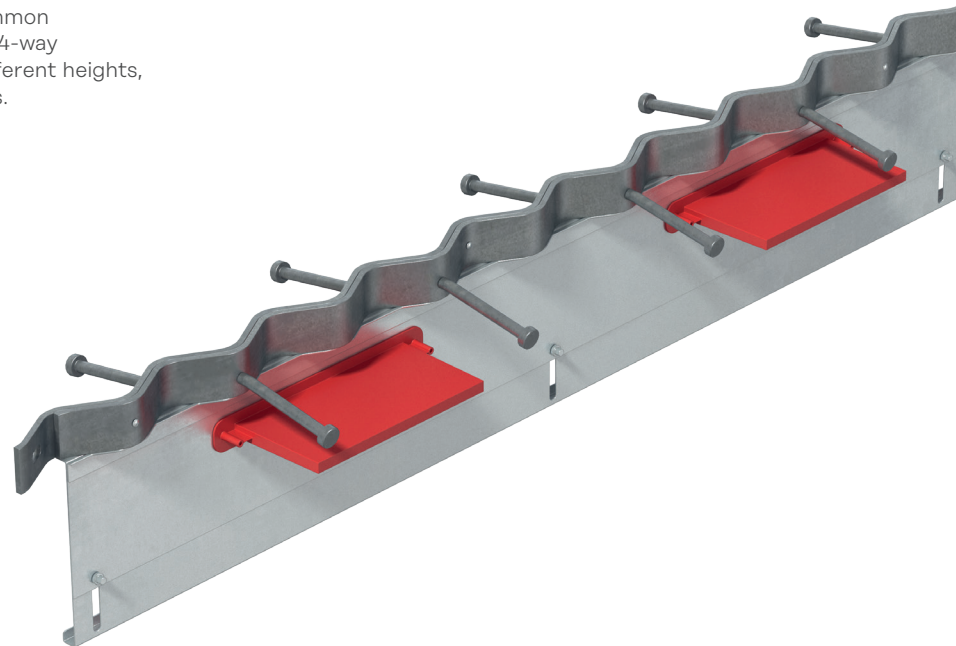
The joint system comprises two wavy shaped top strips, an upper divider plate, a lower divider plate, load transfer plate dowels and sleeves. The lower divider plate is attached to the upper divider plate by a special fastener that requires no tools for adjustment. This innovation is protected by a patent. 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 Isedio ProGuardJoint load transfer system complies with TR34, 4th Edition, and information on the design capacities are available in the Isedio Load Transfer Information Sheet. Find this at [Isedio.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 |