

# ISEDIO ARMOURJOINT ADJUSTABLE

Technical Datasheet

**Istedio 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 such that one slab panel has the sleeve and top strip and the other has 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 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 Istedio 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<br>+/- 2.0mm                                     |
| Straightness                   | +/- 0.5mm in 600mm                                       |
| General Dimensional Tolerances | Dimensions < 12mm +/-0.5mm<br>Dimensions > 12mm +/-2.0mm |

Information on load transfer capacities can be found on 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 |
|-------------|---|---|--|
| 100 - 130mm | 50 off - 150m                           | 1,673kg                                   | 15 Bundles - 23,417kg - 2,250m                   |
| 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, 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 - 19,238kg - 1,260m                   |
| 300 - 350mm | 21 off - 63m                            | 1,055kg                                   | 16 Bundles - 16,873kg - 1,344m                   |

### 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 |
|-------------|---|---|--|
| 100 - 130mm | 50 off - 150m                           | 1,548kg                                   | 15 Bundles - 23,326kg - 1,800m                   |
| 130 - 150mm | 49 off - 147m                           | 1,681kg                                   | 14 Bundles - 23,833kg - 1,764m                   |
| 150 - 200mm | 49 off - 147m                           | 1,719kg                                   | 13 Bundles - 22,712kg - 1,638m                   |
| 200 - 250mm | 35 off - 105m                           | 1,793kg                                   | 15 Bundles - 23,125kg - 1,575m                   |
| 250 - 300mm | 28 off - 84m                            | 1,673kg                                   | 14 Bundles - 19,456kg - 1,176m                   |
| 300 - 350mm | 21 off - 63m                            | 1,128kg                                   | 16 Bundles - 18,044kg - 1,008m                   |

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