



ISEDIO ARMOURDOWELS & UNIDOWELS

Technical Datasheet

Isedio UNIDOWELS & UNISLEEVES are load transfer mechanisms specifically designed to provide load transfer at slab panel edges, where the slab panels have been cast against timber shuttering.

The UNISLEEVE is simply nailed to the timber formwork at the specified spacings and depth. Concrete is cast, encasing the UNISLEEVE. Once the concrete has sufficiently cured, the timber formwork is carefully removed and either 6mm x 115mm x 115mm or 6mm x 150mm x 150mm UNIDOWELS are fitted as specified.

Isedio ARMOURDOWELS and ARMOURSLEEVES provide the same function as UNIDOWELS & UNISLEEVES and are used when greater load transfers are required.

They are available in 8mm or 12mm thickness. Typically, slab depths will be greater as will the drying shrinkage forces applied to the sleeve. In order to resist these crushing forces, ARMOURSLEEVES are installed over an ARMOURSLEEVE Insert. Firstly, the ARMOURSLEEVE Insert is firmly screwed to the timber formwork at the correct spacings and depths. The inserts remain on the formwork for repeated use. ARMOURSLEEVES are then pushed on to the inserts. If necessary they can be nailed to the formwork. Concrete is cast, encasing the ARMOURSLEEVES. Once the concrete has cured sufficiently, the timber formwork is carefully removed and the inserts remain attached to the formwork. The ARMOURDOWELS are then pushed in to the sleeve.

Dowels are available in plain steel, hot dip galvanised steel and stainless steel.







BENEFITS

- · Greater load transfer capacities than round or square dowel bars
- Sleeve design facilitates much greater freedom of movement of dowel (min. 20mm lateral movement)
- Dowel and sleeve design can provide up to 30mm of joint movement
- Virtually zero vertical displacement between adjacent slab panels
- Eliminates snagging of removing timber formwork over round or square dowel bars
- Wider spacings compared with round or square dowel bars means fewer dowels required, less work and quicker completion
- No drilling of timber required
- Certainty that dowel will remain horizontal during casting unlike round or square dowel bars
- No more spalled faces or edges when trying to pull timber over long dowels
- Improved site safety as no long dowel bars protruding along slab edge

MATERIAL SPECIFICATION

TECHNICAL DATA

| Component | Material | Description | Dimension & Tolerance |
|------------------------|--|--|---|
| UNIDOWEL | 6mm - S275 (275 N/mm2) Steel to BS EN 10025-2:2004 or as specified | UNIDOWEL | 6mm x 115mm x 115mm 6mm x 150mm x 150mm |
| ARMOURDOWEL | 8mm & 12mm - S355 (355 N/mm2) Steel to BS EN 10025-2:2004 or as specified | ARMOURDOWEL | 8mm x 150mm x 150mm 12mm x 150mm x 150mm |
| UNISLEEVE | ABS | General Dimensional Tolerance | Dimensions < 12mm +/-0.5mm Dimensions > 12mm +/-1.0mm |
| ARMOURSLEEVE | 8mm & 12mm - PP | Information on load the Load Transfer C | transfer capacities can be found on apacity Datasheet. |
| ARMOURSLEEVE Insert | 8mm & 12mm - PP | | |







PACKAGING INFORMATION

| Dowels | | | |
|-----------------------------------|--|--|--|
| Dowel | Quantity and approx. weight per pallet | | |
| UNIDOWEL - 6mm x 115mm x 115mm | 1,000 off – 650 kg | | |
| UNIDOWEL - 6mm x 115mm x 115mm | 1,000 off – 1,090 kg | | |
| ARMOURDOWEL - 8mm x 150mm x 150mm | 900 off – 1,300 kg | | |
| ARMOURDOWEL - 8mm x 150mm x 150mm | 600 off – 1,300 kg | | |

| Sleeves and Inserts | | |
|-------------------------|--|--|
| Sleeves and Insert | Quantity and approx. weight per box (580mm x 320mm x 385mm) | |
| 6mm UNISLEEVE | 120 off – 14.5 kg | |
| 8mm ARMOURSLEEVE | 240 off – 16.5 kg | |
| 8mm ARMOURSLEEVE INSERT | 300 off – 10 kg | |
| 12mm ARMOURSLEEVE | 240 off – 18 kg | |
| 12mm ARMOURSLEEVE | 150 off – 10.5 kg | |

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