

Metadowel and Sleeve Load Transfer System

The Metadowel is a new concept in the field of load transfer mechanisms. Its unique corrugated feature greatly enhances its bending capability, especially over the wider gaps commonly associated with modern slab construction.

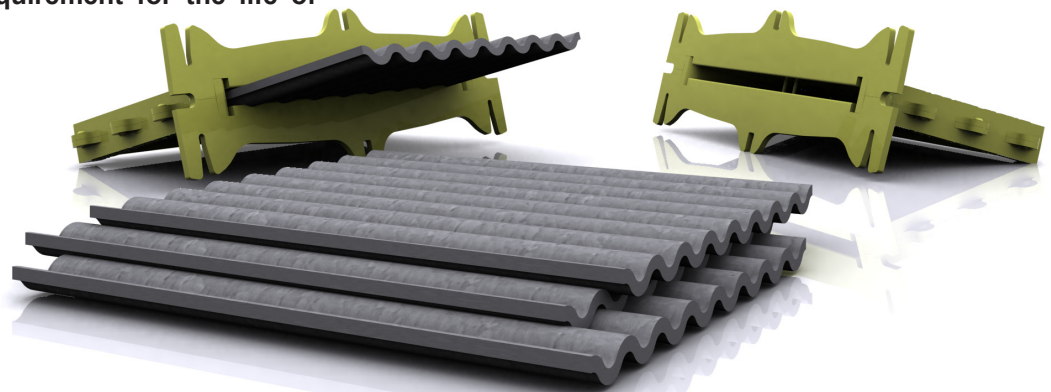
The Metadowel's bending, bearing and shearing capacity are higher than any other comparable dowel system, whilst its unique patent and design protected shape permits placing at up to 600mm

- Suitable for all types of slab.
- High strength steel strip bridges the joint gap.
- Fill area relocated to concrete slab and is supported on all sides.
- Fill area can be added to as shrinkage occurs instead of complete replacement.
- Designed to accommodate 30mm joint movement.
- Recommended for use in post tension slabs.
- Minimal maintenance requirement for the life of the floor.

centres for most floors, thereby increasing efficiency and ease of installation.

Whilst Metadowel was designed for use in the Metaform screed rail, it can easily be used with timber forms. The impact resistant plastic sleeve can be fixed securely to the timber using nails or staples and when the timber is stripped away, the sleeve is left cast in the slab into which the steel dowel is then inserted.

- High strength steel strip assists in load transfer.
- Steel strip has sharp edge and large flat area to trowel up to.
- Has full specified depth of concrete at the joint face.
- 135mm, 160mm, 185mm sizes available immediately from stock, these will suit up to 225mm deep slabs, other sizes by special order.



Dowel Comparison Performance Table.

| Dowel Size | Dowel Length in mm | Shear kN P_{shear} | Bear kN P_{bear} | P_{bend} at Joint Gap Openings | | |
|------------------|--------------------|--------------------------------|------------------------------|---|--------------|--------------|
| | | | | x = 5mm | x = 10mm | x = 15mm |
| 20mm Round | 500 | 36.9 | 42.7 | 121.0 | 60.5 | 40.3 |
| 20mm Square | 500 | 47.0 | 42.7 | 173.9 | 87.0 | 58.0 |
| Metadowel | 175 | 110.3 | 458.0 | 367.6 | 183.8 | 122.6 |

** as can be seen from the above figures Metadowel is more than twice as strong as a 20mm dowel **

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