

# FIBER GLASS DOWELS



Fiber Dowels: Dowels are the most common form of load transfer in concrete pavements. They come in various sizes, shapes, and materials, but to perform optimally over the course of the pavement life, they need to be oriented appropriately and within tolerable location limits in the slab.

# Usage

The location and alignment of dowel bars is important to achieve intended performance. This is true regardless of whether dowels are placed using a mechanical dowel bar inserter (DBI) or placed before paving with baskets.

## Scope

Specifications require that dowels be located within middepth of the slab. Dowels that are significantly misaligned or mislocated may not function as intended and, if well out of tolerance, can cause detrimental pavement damage.

#### **Benefits**

- > Less weight than Steel
- CO₂ friendly, fiber glass can be re-used directly after breaking up concrete.
- Higher tensile strength
- > Corrosion isn't possbile, so longer life span of the concrete.

#### **Product description**

O Handelsweg 21, 5531 AE Bladel, The Netherlands

Fiber glass dowels are on demand availabe in all sizes. The standard sizes are diameter 12, 25, 30, 32 and 38 with the lengths 500 mm or 600 mm.

## 🌣 Technical details

Shear strength 154 MPa 985 MPa Tensile strength E-Modulus 50 - 55 Gpa Metal free 100% Diameter tolerance 0.1mm +/-Density 1900 - 2000 kg/m3 Fiber volume 70% fiberglass

Thermal extension coefficient

- Longitudina 9x10-6/C - Transverse 52x10-6/C

Components 70% fiberglass with 30% resin

Corrosion resistant

Higher tensile strength 600 - 1600 N/mm2

Chloride and phosphate resistant Yes Conducts radiowaves Thermal conductivity 0.25% Diamagnetic Yes Color Mint

### Storage

Can easily stored outside cause the dowels arent sensitive for corrosion.

### Test results

Dowels are completely tested and researched. Results can be sent on demand.

## Safety

This dowels are safe in use when used properly and placed 100% horizontally.