

Fiber Dowels

Fiber Glass dowels

Technical description



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 also require that dowels be located within mid-depth 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 possible so longer life span of the concrete

Product description

Fiber glass dowels are on demand available in all sizes. The standard sizes are diameter 22, 25, 30, 32 and 38 with the lengths 500 mm or 600 mm.

Technical details

Shear strength	201.1 MPa
Tensile strength	685 MPa
E-Modulus	50 – 55 GPa
Metaal vrij	100 %
Diameter tolerantie	0,1 mm +/-
Dichtheid	1900 - 2000 kg/m ³
Vezelvolumen inhoud	70% vezel
Thermal extension coefficient Longitudina Transverse	9x10 ⁻⁶ /C 52x10 ⁻⁶ /C
Components	70% ECR glasvezel met 30% hars
Corrosion resistant	Ja
Higher tensile strength	600-1600 N/mm ²
Chloride and phosphate resistant	ja
Conducts radio waves	nee
Thermal Conductivity	0,25%
Diagmagnetic	ja
Color	mint

Storage

Can easily stored out side 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.

