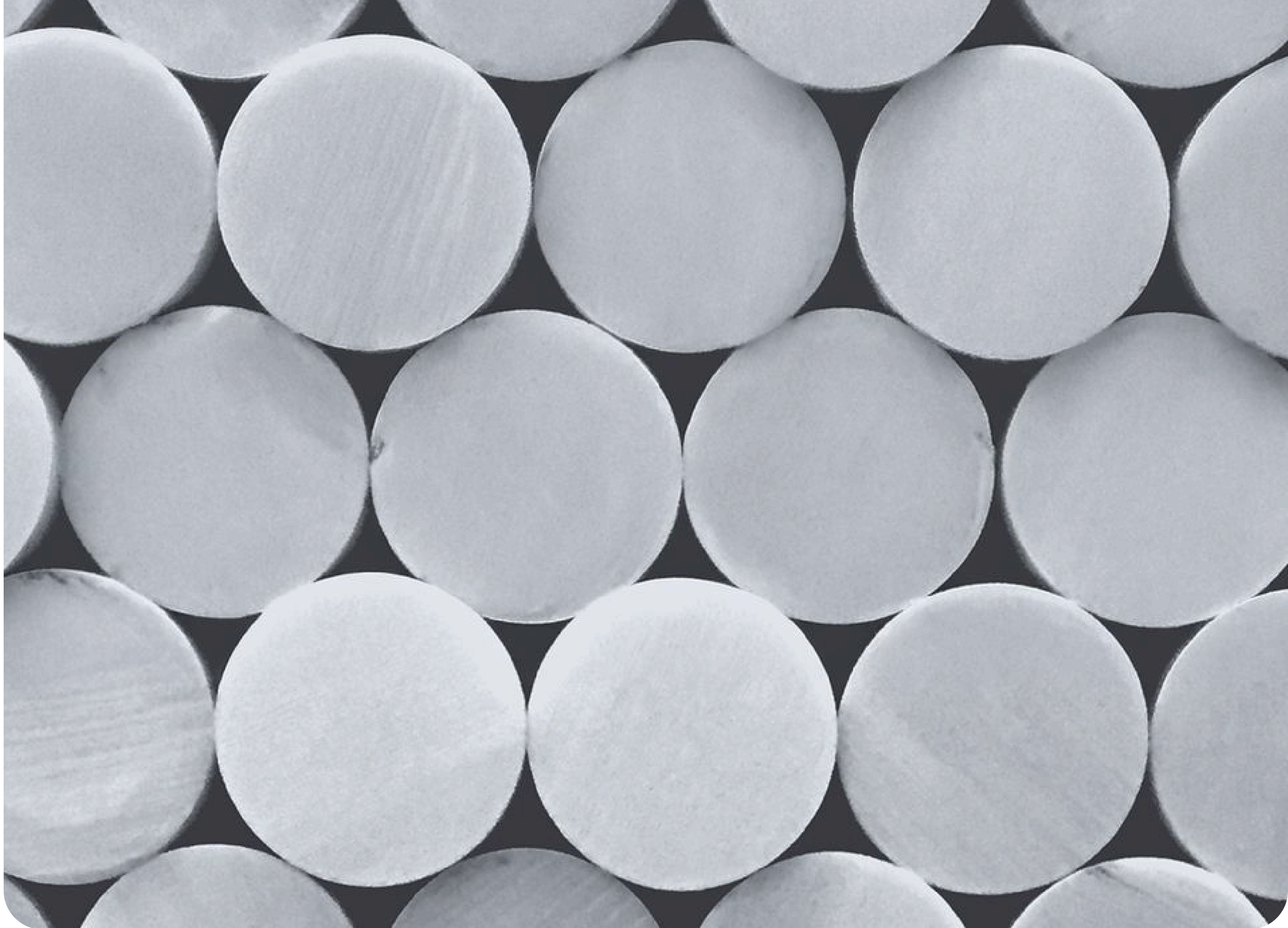


MATEENDOWEL™ DOWEL BARS

For load transfer between concrete slabs



MATEENDOWEL fiberglass reinforced polymer (GFRP) dowel bars.

Physical and Mechanical Properties

DOWEL BAR DIAMETER (mm)	NOMINAL CROSS SECTIONAL AREA (mm²)	UNIT WEIGHT/ LENGTH (g/m)	LONGITUDINAL SHEAR STRENGTH PER ASTM D4475 SHORT BEAM SHEAR (MPa)	TRANSVERSE SHEAR STRENGTH PER ASTM D7617 DOUBLE SHEAR (MPa)	TRANSVERSE SHEAR LOAD (kN)
16	201	425	50	160	32
19	284	595	50	160	46
25	491	1046	50	160	79
31.4	774	1610	50	160	124
37.6	1110	2335	50	160	178

Values in the above table are Mean Ultimate Values. Transverse shear test is per ASTM D7617. We reserve the right to make improvements in the product and/or process which may result in benefits or changes to some physical-mechanical characteristics.

Material Properties

THERMAL CONDUCTIVITY (W/m °C)	ELECTRICAL RESISTIVITY (Ωm)	DENSITY (kg/m³)	FIBRE MASS CONTENT (%)	MOISTURE ABSORPTION (at 50 °C)	GLASS TRASITION TEMPERATURE (DSc)
<1	> 200 x 10 ¹⁰	2,100	≥ 70%	≤ 0.1%	≥ 100 °C

Handling and Placement

Field cutting of Fiberglas™ Dowel Bars is generally not necessary. However, if required use a fine blade saw, grinder, carborundum or diamond blade. We use a diamond blade in wet bath for cutting the dowels. Sealing of Fiberglas™ Dowel Bars ends is NOT necessary. Greasing of Fiberglas™ Dowel Bars is NOT necessary (the bond strength to concrete is sufficiently low.)

MAKE
MORE
POSSIBLE™

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