



**Pultrux Bar**

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**FIBERGLASS DOWEL BARS**

## GLASS FIBER REINFORCED POLYMER (GFRP) DOWEL BARS FOR LOAD TRANSFER BETWEEN CONCRETE SLABS

### APPLICATIONS

- High speed tollways
- Jointed concrete paving
- Canals
- Water Ways and Desalination Input
- Channels
- Industrial flooring



### ADVANTAGES



#### NON-CORROSIVE

Will never corrode. Resistant to alkaliferous substances, chloride salts and acids



#### LIGHTER THAN STEEL

Dowels bars are less than 1/3 steel weight



#### ELECTROMAGNETICALLY TRANSPARENT

Perfect for high speed tolling areas with electromagnetic sensitivities and for automatic & wire guided vehicle areas



#### EASY TO INSTALL

Individual units are compatible with insertion type paving machines.

### PHYSICAL AND MECHANICAL PROPERTIES

DOWEL BAR DIAMETER		NOMINAL CROSS SECTIONAL AREA		UNIT WEIGHT/ LENGTH		LONGITUDINAL SHEAR STRENGTH PER ASTM D4475 SHORT BEAM SHEAR		TRANSVERSE SHEAR STRENGTH PER ASTM D7617 DOUBLE SHEAR		TRANSVERSE SHEAR LOAD	
mm	in	in <sup>2</sup>	mm <sup>2</sup>	lbs/ft	Kg/m	psi	MPa	psi	MPa	lbs	kN
25	1	0.785	491	0.91	1.36	6,800	47	20,000	138	15,708	70
32	1 1/4	1.227	804	1.14	1.70	6,800	47	20,000	138	24,544	109
38	1 1/2	1.767	1134	1.37	2.04	6,800	47	20,000	138	33,343	157

GLASS FIBER CONTENT

>70% by weight per ASTM D2584

MOISTURE ABSORPTION

24 hour absorption at 122°F (50°C) ≤ 0.25%, per ASTM D570

SEALING OF ENDS

Not necessary

GREASING OF GFRP DOWELS

Not necessary (adhesion to concrete is sufficiently low)

GLASS TRANSITION TEMPERATURE

230°F (110°C) per DSC method



EXPERTOS EN LAMINADOS PLÁSTICOS