

# Mateenbar™ 60

## Straight Bars

Nominal Diameter*	Nominal Cross Sectional Area*	Unit Weight/Length	Guaranteed Ultimate Tensile Strength (F*fu)	Ultimate Tensile Strength	Ultimate Tensile Strain	Modulus Elasticity (Ef)
mm	mm <sup>2</sup>	g/m	MPa	MPa	%	GPa
8	49	100	850	>900	1.6	52
10	76	160	850	>900	1.6	52
12	106	224	850	>900	1.6	52
13	123	256	850	>900	1.6	52
14	149	315	850	>900	1.6	52
16	194	415	850	>900	1.6	52
19	273	590	800	>850	1.5	54
22	358	770	800	>850	1.5	54
25	479	1030	800	>850	1.5	54
32	752	1620	800	>850	1.5	54
38	1068	2270	800	>850	1.5	54

F\*fu = tensile strength minus 3 standard deviations (ACI440.1R-2015)  
 M = metric sizes, measured dimensions apply, derived from table 3 of ASTM D7957

## Material Properties

Bond Strength	Thermal Conductivity	Electrical Resistivity	Density	Fibre Mass Content*	Moisture Absorption in 24hr at 50°C	Glass Transition Temperature (DSC)*	Shear Strength*
MPa	W/m °C	Ωm	kg/m <sup>3</sup>	%	%	°C	MPa
>10	<1	>200x10 <sup>10</sup>	2100	≥80	≤0.1	≥110	≥180

**Primary materials:** E-CR glass and vinyl ester resin.

## Bent Bars

Please contact our team for information on the material properties, shape availability and dimensional limitations of bent bars.