

# TUF-BAR

## Fiberglass Rebar 50 GPa Bent Bars

### 100+ Years Concrete Reinforcement

Ultimate Corrosion Solution

#### APPLICATIONS

- Bridge Decks and Barrier Walls
- Roads, Parking Garages and Concrete Slabs
- Power Generation and MRI
- Tunneling and Temporary Reinforcement
- Dams, Sea Walls and Marine Applications

TUF-BAR uses the highest quality corrosion resistant vinyl ester resin and E-CR fiberglass materials.

- ▶ **Contributes 7 LEED Credits**
- ▶ **Bends in all sizes**
- ▶ **Custom lengths**

#### 100+ Years Sustainability

- ▶ 300% Total Project Savings
- ▶ Zero Maintenance
- ▶ ¼ The Weight of Steel
- ▶ 2X Tensile Strength of Steel
- ▶ Non-Magnetic
- ▶ Non-Conductive
- ▶ Thermal Insulation

ISO 9001 • ISO 14001 • OHSAS 18001



# TUF-BAR 50 GPa Bent Bars

## Product Data Sheet: TUF-BAR 50 GPa Bent Bars

April 2021

	Units	#3-50	#4-50	#5-50	#6-50	#7-50	#8-50
Nominal Diameter (CSA S807)	mm	10	13	15	20	22	25
	inch	3/8	1/2	5/8	3/4	7/8	1
Fiber Type		E-CR glass					
Resin Type		Vinyl ester					
Fiber Content (by weight)	%	> 80%					
Guaranteed Ultimate Tensile Strength (Straight Portion ASTM D7205 / CSA S806)	MPa	1000	1000	1000	1000	1000	1000
	ksi	145	145	145	145	145	145
Minimum Tensile Modulus of Elasticity (Straight Portion ASTM D7205 / CSA S806)	GPa	50					
	ksi	7252					
Minimum Tensile Strength (Bent Portion ASTM D7914)	MPa	450	450	450	450	450	450
	ksi	65	65	65	65	65	65
Weight	g/m	195	339	526	742	990	1309
	lb/ft	0.13	0.23	0.35	0.50	0.67	0.88
Effective Cross-Sectional Area (Including Coating) (CSA S807)	mm <sup>2</sup>	91	152	235	335	435	574
	inch <sup>2</sup>	0.141	0.236	0.364	0.519	0.674	0.890
Nominal Cross-Sectional Area (CSA S807)	mm <sup>2</sup>	71	129	199	284	387	510
	inch <sup>2</sup>	0.110	0.200	0.308	0.440	0.600	0.791

## TUF-BAR 50 GPa Bent Bars Comply with:

- CSA S807, Grade III Bends (IIIB)
- MTO, Grade III Bends
- ASTM D7957



**TUF-BAR**  
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