

TUF-BAR

Fiberglass Rebar 45 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 45 GPa Bent Bars

Product Data Sheet: TUF-BAR 45 GPa Bent Bars

April 2021

	Units	#3-45	#4-45	#5-45	#6-45	#7-45	#8-45
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	850	925	900	900	850
	ksi	145	123	123	130	130	123
Minimum Tensile Modulus of Elasticity (Straight Portion ASTM D7205 / CSA S806)	GPa				46		
	ksi				6671		
Minimum Tensile Strength (Bent Portion ASTM D7914)	MPa	450	383	416	405	405	383
	ksi	65	56	60	59	59	56
Weight	g/m	150	259	433	611	816	1105
	lb/ft	0.10	0.17	0.29	0.41	0.55	0.74
Effective Cross-Sectional Area (Including Coating) (CSA S807)	mm ²	71	123	203	290	399	530
	inch ²	0.111	0.190	0.308	0.440	0.600	0.821
Nominal Cross-Sectional Area (CSA S807)	mm ²	71	129	199	284	387	510
	inch ²	0.110	0.200	0.308	0.440	0.600	0.791

TUF-BAR 45 GPa Bent Bars Comply with:

- CSA S807, Grade II Bends (IIB)
- MTO, Grade I Bends
- ASTM D7957



TUF-BAR
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