

- ✓ Bulletin FIB40
- ✓ CNR-DT 202/2005, Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Existing Metallic Structures
- ✓ Groupe de travail AFGC : Utilisation d'armatures composites (à fibres longues et à matrice organique) pour le béton armé
- ✓ Recommendation For Design And Construction Of Concrete Structures Using Continuous Fiber Reinforcing Materials, Research Committee on Continuous Fiber Reinforcing Materials, Tokyo, 1997
- ✓ EAD 260023-00-0301 "CARBON, GLASS, BASALT and ARAMID REINFORCED POLYMER BARS AS REINFORCEMENT OF STRUCTURAL ELEMENTS"
- ✓ CANCSA S806
- ✓ Canadian Highway, Bridge Design Code design provisions for fibre-reinforced structures
- ✓ ISIS Canada design manual
- ✓ ACI 440.1R
- ✓ AASHTO Design Specifications for GFRP-RC Bridges



**Organismo nazionale
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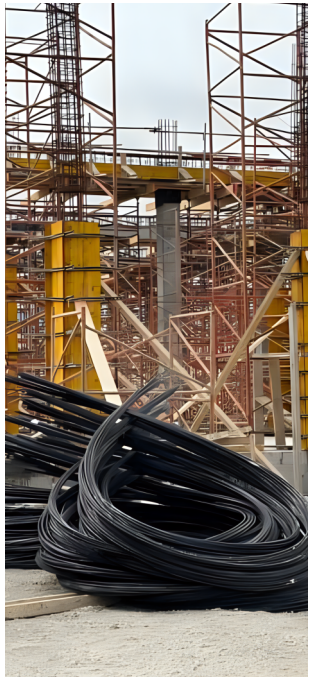


PROBAR



A great solution for many
constructions in
contemporary building
approaches





PROBAR is the best solution for residential and commercial applications, including parking lots, sidewalks, patios, pool decks, driveways and more. Also can be used for structural applications, including parking lots, driveways, pool decks, bridge decks, barriers, seawalls, balconies, and more. One of the largest contributors to our failing infrastructure is corrosion of reinforcement in concrete. This results in shortened lifespans for concrete, higher repair costs, and can present safety issues.

PROBAR is a reinforcing material intended to be used in concrete to replace traditional steel type reinforcement. Made from fiberglass roving to give the material its strength, Fiberglas™ Rebar has been used for over 30 years with excellent results.

PRODUCT ADVANTAGES COMPARED TO STEEL

STRONGER

- 2x stronger in tensile strength compared to the same size diameter

RUSTPROOF

- More durable structures

LIGHTER

- 2x stronger in tensile concrete flatwork applications
- 4x lighter compared to the same size diameter

CHEMICAL RESISTANCE

- Corrosion free

ENHANCED PRO EXPERIENCE

- Scratch-free, heat-free handling
- High-visibility color
- Non-conductive

Fiberglas™ Rebar is a completely non-metallic material that removes rust from the equation. With nothing to corrode, Fiberglas™ Rebar offers a longer lasting solution that is price competitive with steel. It is also electro and magnetically inert, making it ideal for sensitive areas.

ESSENTIAL CHARACTERISTICS	PERFORMANCE	HARMONISED TECHNICAL SPECIFICATION
Average value of the tensile strength (f_{ft0}) [MPa]	> 1000	EAD 260023-00-0301 «CARBON, GLASS, BASALT and ARAMID FIBRE REINFORCED POLYMER BARS AS REINFORCEMENT OF STRUCTURAL ELEMENTS»
Characteristic value of tensile strength (f_{ftk0}) [MPa]	> 900	
Average value of the modulus of elasticity (E_f) [GPa]	> 45	
Average value of the ultimate strain (ϵ_{ft0}) [%]	> 2	
Characteristic value of the ultimate strain (ϵ_{ft0}) [%]	> 1.2	
Average value of the compressive strength (f_{co}) [MPa]	> 460	
Characteristic value of the compressive strength (f_{cko}) [MPa]	> 380	
Average value of the compressive modulus of elasticity (E_c) [GPa]	> 46	

