



CONCRETE REINFORCEMENT

A BETTER WAY FORWARD

Owens Corning Fiberglass Rebar for Flatwork represents a compelling alternative to steel reinforcements.

Advantages include: corrosion-resistance, light weight, enhanced ease-of-installation, and greater tensile strength than steel.

FOR FLATWORK APPLICATIONS

FIBERGLASS REBAR FOR FLATWORK

Physical & Mechanical Properties

NOMINAL DIAMETER			NOMINAL AREA		F* _{FU} GUARANTEED TENSILE STRENGTH		ULTIMATE TENSILE LOAD		E _F TENSILE MODULUS OF ELASTICITY		ULTIMATE STRAIN
Size	mm	in	mm ²	in ²	MPa	ksi	kN	kips	GPa	psi 10 ⁶	%
2	6	¼	31.67	0.049	896	130	28.34	6.37	46	6.7	1.94%
3	10	⅜	71.26	0.110	827	120	58.72	13.20	46	6.7	1.79%
4	13	½	126.7	0.196	758	110	95.90	21.56	46	6.7	1.64%
5	16	⅝	197.9	0.307	724	105	143.41	32.24	46	6.7	1.57%
6	19	¾	285.0	0.442	690	100	196.60	44.20	46	6.7	1.49%

We reserve the right to make improvements in the product and/or process which may result in benefits or changes to some physical-mechanical characteristics. The data contained herein is considered representative of current production and is believed to be reliable and to represent the best available characterization of the product as of July 2011. Tensile tests per ASTM D7205.

Applications

Owens Corning Fiberglass Rebar for Flatwork is intended for slab on ground applications such as: parking slabs, drive-ways, sidewalks, agricultural flats, and Continuous Reinforcement Concrete Paving (CRCP) for streets.

Owens Corning Fiberglass Rebar for Flatwork is not intended for use as reinforcement for high load-bearing applications: bridges, parking garages, foundation and basement walls, balconies, or CRCP for heavy state highways – in these instances, please use Owens Corning Rebar.

Handling & Placement

In general, field handling and placement is the same as for epoxy or galvanized steel bars. Do NOT shear FRP bars. When field cutting of FRP bars is necessary, use a fine blade saw, grinder, carborundum or diamond blade. Sealing the ends of FRP bars is not necessary. Support chairs are required at two-thirds the spacing of steel rebar. Plastic coated tie wire is the preferred option for most projects.

Packaging

Owens Corning Fiberglass Rebar for Flatwork is bundled together into standard bundle sizes containing 20ft lengths. Protective paper wrapping is also available upon request.

Labeling

Material certifications are available for any production lot of Owens Corning Fiberglass Rebar, traceable by bar marks imprinted on the bar in intervals showing the bar diameter, stock order and production date.

Storage

Fiberglass Rebar for Flatwork should remain covered and protected from UV exposure until ready for use and placement.

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