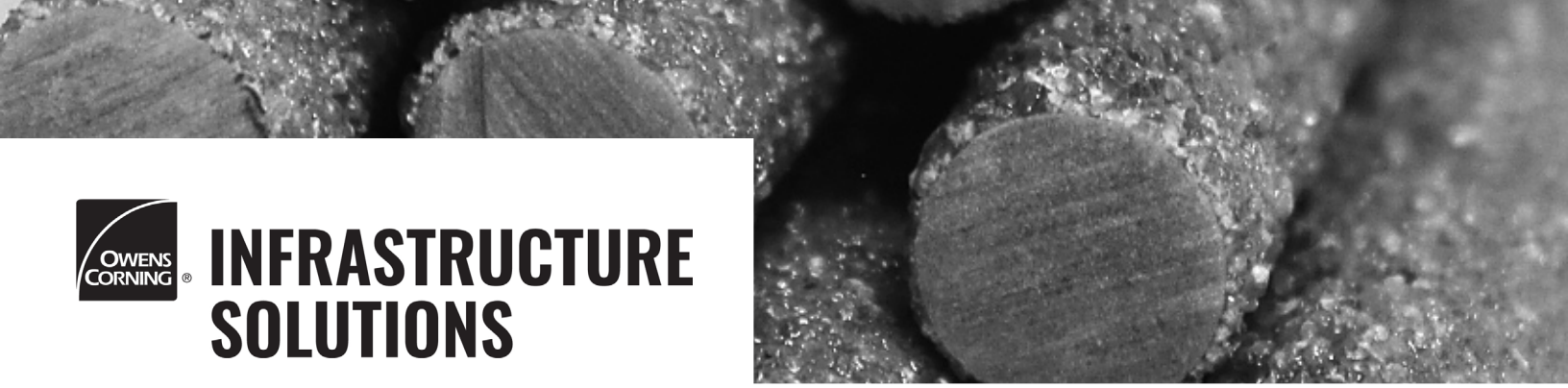

OWENS CORNING®

INFRASTRUCTURE SOLUTIONS

PINKBAR® FIBERGLAS™ REBAR

LESS WEIGHT. MORE STRENGTH™.

PINKBAR® Fiberglas™ Rebar by Owens Corning Infrastructure Solutions (OCIS) is designed as a cost-effective, lightweight, rust-free reinforcement solution for concrete over traditional steel rebar.

- Designed for use in flatwork/slabs-on-grade, residential footings, and foundation walls.
- Meets physical and mechanical requirements of ASTM D7957 material standard for Solid Round Glass Fiber Reinforces Polymer (GFRP) Bars for Concrete Reinforcement.
- Made with boron-free Advantex® E-CR glass fibers and epoxy resin.
- Proprietary sand coating enables superior bonding with concrete.

Product Advantages Compared to Steel

Less Weight. Less Install Time. Fewer Truckloads.
Up to 7x LIGHTER than steel**
- Cut install time in half*
- Save on transportation

Less Overall Cost
From purchase to install, users can save an average of 33% on total cost compared to steel.*

More Strength
PINKBAR® Fiberglas™ Rebar by OCIS is 2x stronger in tensile strength compared to the same size diameter of grade 60 steel.

More Durability
PINKBAR® Fiberglas™ Rebar by OCIS will never rust, making concrete structures more durable, especially in corrosive environments.

*Based on average estimates of a conventional 6-inch-thick rectangle slab, $60 per hour labor rate. Pricing and labor rates can vary by region and fluctuations in the market.
**Comparing #3 PINKBAR® with #4 steel rebar. #3 PINKBAR® replaces #4 steel rebar in flatwork applications requiring reinforcement for shrinkage crack mitigation.

Proven Performance

ASTM D7957
- PINKBAR® Fiberglas™ Rebar by OCIS meets physical and mechanical requirements of ASTM D7957 material standard.
- Production lot certificates are provided upon request and purchase.

ACI 332 & ACI 440
- PINKBAR® Fiberglas™ Rebar by OCIS can be used in residential concrete, including footings and foundation walls, as prescribed in ACI 332 using ACI 440 design methodology.

ICC-ES AC454
- Meets or exceeds ICC-ES AC 454 acceptance criteria, including bond strength, tensile strength, and tensile modulus of elasticity.

*Per PINKBAR® submittal package, pending ICC-ES AC 454 evaluation.

TMS 402/602
- PINKBAR® Fiberglas™ Rebar by OCIS can be used with TMS 402/602-22 Appendix D as reinforcing for masonry walls.

Proven Crack Mitigation in Flatwork
Independent testing has proven that #3 PINKBAR® mitigates shrinkage cracks as effectively as #4 steel in poured slabs and can increase the long-term service life of flatwork due to the non-corrosive properties of fiberglass rebar.*

*Restrained Shrinkage Testing at University of Brescia, Italy, 2020.

Applications

PINKBAR® Fiberglas™ Rebar by OCIS is intended for use in:

RESIDENTIAL		COMMERCIAL/INDUSTRIAL	
• Driveways	• Basement Walls	• Parking Slabs	• Architectural Precast
• Sidewalks	• Footings	• Warehouse Floors	• Truck Aprons
• Pool Decks	• Concrete Masonry	• Agricultural Slabs	• Pour Back Slabs
• Basement Floors	• ICF Construction	• Loading Docks	

Physical & Mechanical Properties

NOMINAL DIAMETER			NOMINAL CROSS SECTIONAL AREA		UNIT WEIGHT/ LENGTH		GUARANTEED ULTIMATE TENSILE FORCE		GUARANTEED ULTIMATE TENSILE STRENGTH		ULTIMATE TENSILE STRAIN	MEAN TENSILE MODULUS OF ELASTICITY	
Bar Size	in	mm	in^2	mm^2	lb/ft	kg/m	kip	kN	ksi	MPa	%	Msi	GPa
#2	0.25	6	0.05	32	0.05	0.07	6.76	30.08	138.0	951	2.03%	6.80	46.88
#3	0.375	10	0.11	71	0.11	0.16	15.07	67.03	137.0	945	2.01%	6.80	46.88
#4	0.500	13	0.20	129	0.18	0.27	26.90	119.66	134.5	927	1.98%	6.80	46.88
#5	0.625	16	0.31	199	0.32	0.47	40.30	179.26	130.0	896	1.91%	6.80	46.88

MEAN TRANSVERSE SHEAR STRENGTH		BOND STRENGTH		FIBER MASS CONTENT	MOISTURE ABSORPTION IN 24 H AT 50°C (122°F)	MOISTURE ABSORPTION TO SATURATION AT 50°C (122°F)	MEAN GLASS TRANSITION TEMPERATURE (DSC)	
ksi	MPa	psi	MPa	%	%	%	°F	°C
≥19	≥131	≥1100	≥7.6	≥70	≤0.25	<1.0	≥212	≥100

Handling & Placement

Handling and installation of PINKBAR® Fiberglas™ Rebar by OCIS is the same as for steel bars, with a few notes and exceptions:

- Cutting: Do not shear fiberglass bars. Field-cut fiberglass bars using a fine-blade saw, grinder, and carborundum or diamond blade. Sealing the ends of fiberglass bars is not necessary.
- Chairing: Place chairs at a spacing that ensures adequate concrete cover.
- Tying: Use same tying methods as for steel rebar. Tie wire material based on contractor preference.

As with any reinforcement placement, be sure to follow best practices in all phases of your concrete project, from planning to construction, including pouring, curing, joint cutting, and maintenance for optimal performance.

Packaging

PINKBAR® Fiberglas™ Rebar by OCIS ships from multiple locations in the U.S. Master bundles and sub-bundles are available in standard sizes.

BAR SIZE	WEIGHT PER 20-FOOT BAR (lb)	NO. OF BARS PER SUB-BUNDLE	WEIGHT PER SUB-BUNDLE (lb)	NO. OF BARS PER MASTER BUNDLE	WEIGHT PER MASTER BUNDLE (lb)	NO. OF BARS IN A FULL TRUCK LOAD (FTL)	WEIGHT PER FTL (lb/ton)
#2	0.94	50	45	500	450	46,000	42,000/21
#3	2.15	20	42	500	1,050	20,000	40,000/20
#4	3.63	10	36	500	1,800	12,000	44,000/22
#5	6.26	10	62	250	1,550	7,500	44,000/22

Stock bent bars are available on request.

Labeling & Certificates

Production lot certificates are available upon request – traceable by bar marks imprinted on the bar in intervals showing the bar diameter, stock order and production date.

Storage

PINKBAR® Fiberglas™ Rebar by OCIS is durable in the outdoor environment. Discoloration, fading, or chalking of the surface can occur due to oxidation or UV exposure. However, this is cosmetic only and will not affect the performance of the bar. For prolonged exposure under direct sunlight, a protective cover is recommended to minimize these effects.

HOW WE BUILD NOW™

OWENS CORNING INFRASTRUCTURE SOLUTIONS

Owens Corning Infrastructure Solutions, LLC
One Owens Corning Parkway
Toledo, OH 43659 USA
Ph: 1-855-OC-Rebar
www.owenscorning.com/pinkbar

CALCULATE SAVINGS IN FLATWORK

Pub. No. 10023236-K. July 2022.