



# INFRASTRUCTURE SOLUTIONS

## PINKBAR® FIBERGLAS™ REBAR RESIDENTIAL BUILDING CODE GUIDE

Engineered to meet the codes and standards you trust — PINKBAR® Fiberglas™ Rebar is a proven stronger, lighter, and more durable alternative to traditional concrete reinforcement materials:

- PINKBAR® can be installed prescriptively in residential concrete walls, lintels, and footings with ICC-EER 4593
- #3 PINKBAR® replaces #4 steel rebar in flatwork applications requiring reinforcement for shrinkage crack mitigation.
- Designed for use in residential concrete applications, including flatwork, footings, and foundation walls, as prescribed in ACI 332 cited in the International Residential Code (IRC).

### Important definitions

- **ICC-ESR:** Evaluation Service Report - Provides approval for alternative materials within engineered designs
- **ICC-EER:** Equivalency Evaluation Report - Provides approval for builders to prescriptively use an alternative material without an engineer

### PINKBAR® Intended Residential Applications

- Non-structural driveway slabs, patios, sidewalks, basement slabs<sup>1</sup>
- #3 PINKBAR® as horizontal reinforcing in cast-in-place below grade walls, above grade walls, lintels, monolithic slabs, and footings, replacing #4 steel rebar<sup>1</sup>
- Vertical reinforcing in cast-in-place below grade walls, above grade walls, and stem walls<sup>1</sup>

<sup>1</sup> ICC-EER 4593 provides tables and details for installation of PINKBAR® in prescriptive residential concrete. For more information: <https://icc-es.org/report-listing/eer-4593/>



### Engineered uses in the following applications:

- Walls taller than 10' (below and above grade)
- Structural foundation slab and/or structural masonry
- All vertical reinforcing in walls in seismic design categories D, E, and F

## Checklist — Building with PINKBAR® Fiberglass™ Rebar

Use the checklist below to assess your next job. If all fields remain unchecked, you're ready to start. If you check one or more fields, you might need an engineer's approval or to discuss with your local building official before moving forward:

- ☐ My next job includes vertical reinforcing in cast-in-place walls taller than 10 ft
- ☐ My next job includes structural foundation slab and/or structural masonry
- ☐ My next job includes vertical reinforcing in walls in seismic design categories D, E and F

PINKBAR® Fiberglass™ Rebar can also be used in commercial applications; however, these applications might also require the engineer and building official's approval prior to construction.

## Code Reference Comparison — PINKBAR® vs. Steel

CODE AUTHORITY	PINKBAR® FIBERGLAS™ REBAR	STEEL REBAR
ASTM Specification	D7957	A615
ACI — General Concrete Design	440.1R-15 440.11-22	318-19
ACI — Residential Concrete Design	Approved for prescriptive use through ICC-EER 4593	332 Prescriptive Design Tables
International Building Code (2018 and 2021)	Approved for use through ICC-ESR 4593 <sup>4</sup>	Included
International Residential Code (2018 and 2021)	Approved for use through ICC-ESR 4593 <sup>4</sup> and ICC-EER 4593	Included
TMS 402/602-22 (Masonry Design)	Included in Appendix D	Included

<sup>4</sup> Owens Corning® PINKBAR®+ Fiberglass™ Rebar currently holds ICC-ES approval as an ASTM D7957-compliant material. PINKBAR® Fiberglass™ Rebar meets the same requirements as PINKBAR®+ as an ASTM D7957-compliant material with similar properties as verified by the University of Miami.

## Other approvals & Jurisdictions



### Meets or exceeds standards for use in the United States

PINKBAR® Fiberglass™ Rebar complies with all required standards for use in sidewalks, driveways, parking slabs and other residential and commercial applications in the United States



### Wisconsin Building Product Evaluation

PINKBAR® Fiberglass™ Rebar is approved for use in residential and commercial applications by the Wisconsin Building Product Evaluation

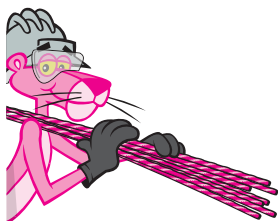
### MDOT - Curb & gutter special provision

PINKBAR® Fiberglass™ Rebar is approved for use in curb and gutter by the Michigan Department of Transportation

### City of Austin (TX) & TXDOT

The city of Austin, TX has approved PINKBAR® Fiberglass™ Rebar for use in riprap, driveways, sidewalks, and other residential and commercial applications

Contractors across the US are **building faster and safer with PINKBAR®**



**HOW WE BUILD NOW™**



## INFRASTRUCTURE SOLUTIONS

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