



Durable Fiberglass Rebar



Greenbar2X™ fiberglass rebar by Mateenbar offers a superior alternative to traditional steel for residential and light commercial projects. Engineered with high tensile strength, durability, and corrosion resistance, Greenbar2X™ redefines concrete reinforcement. Its lightweight, rustproof, and UV-resistant design simplifies transport, handling, and installation, reducing labor costs and boosting productivity. Ideal for foundations, driveways, pool decks, patios, and more, Greenbar2X™ withstands all weather conditions for long-lasting, maintenance-free performance. Choose Greenbar2X™ for projects that demand strength, ease, and durability.

Build Stronger. Faster. Better.

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Trusted Performance & Built for Pros

Greenbar2X™ provides pros with a rustproof, high-strength alternative to traditional steel rebar, ensuring reliable performance in any weather without the risk of corrosion. Lightweight yet robust, it enables faster, safer installations, reducing both labor time and effort. Built to meet the demands of rigorous job sites, Greenbar2X™ offers a durable solution that lasts, delivering peace of mind where steel falls short.



Meets or Exceeds Standards

Greenbar2X™ is engineered to meet or exceed key industry standards, codes, and specifications, giving contractors and professionals confidence in its performance, safety, and compliance. Designed for optimal results across construction projects, Greenbar2X™ supports a streamlined approval process to simplify permitting and reduce delays related to compliance checks.

MATERIAL STANDARDS: ASTM D7957 & CSA-S807 Grade I

RESIDENTIAL & COMMERCIAL CONCRETE: ICC-EER 5548, ICC-ESR 5548, ACI 332 & ACI 440

MASONRY: TMS 402/602-22

Typical Concrete Applications

| RESIDENTIAL | COMMERCIAL/ LIGHT INDUSTRIAL | MASONRY |
|--|---|---|
| <ul style="list-style-type: none"> • Driveways • Sidewalks • Patio • Pool Decks and Walls • Slabs/Foundations • Footings • ICF Construction | <ul style="list-style-type: none"> • Warehouse Floors • Agricultural Slabs • Loading Docks • Architectural Precast • Truck Aprons • Pour Back Slabs | <ul style="list-style-type: none"> • Stairwells • Basement Walls • Elevator Shafts • Step Crack Repair • Retrofit for Existing Masonry • Exterior Walls |



Straight Bars Technical Data

| NOMINAL DIAMETER | | | GUARANTEED TENSILE FORCE | | ELASTIC MODULUS | | GUARANTEED TRANSVERSE SHEAR CAPACITY | | WEIGHT | | NOMINAL CROSS-SECTIONAL AREA | | OUTER DIAMETER (INCLUDING RIBS) | |
|------------------|------|-------|--------------------------|------|-----------------|------|--------------------------------------|------|--------|-------|------------------------------|-----------------|---------------------------------|-------|
| Bar Size | mm | in | kN | kip | GPa | ksi | MPa | ksi | g/m | lb/ft | mm ² | in ² | mm | in |
| #3 | 9.5 | 0.375 | 59.2 | 13.3 | 46.8 | 6670 | 150 | 21.8 | 166 | 0.112 | 71 | 0.11 | 10.3 | 0.406 |
| #4 | 12.7 | 0.5 | 97 | 21.8 | 46.8 | 6670 | 150 | 21.8 | 268 | 0.180 | 129 | 0.20 | 13.0 | 0.512 |
| #5 | 15.9 | 0.625 | 130 | 29.1 | 46.8 | 6670 | 150 | 21.8 | 415 | 0.279 | 199 | 0.31 | 16.1 | 0.630 |

| 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) | | MEAN APPARENT HORIZONTAL SHEAR | | MEAN TRANSVERSE SHEAR STRENGTH | | BOND STRENGTH | |
|--------------------|---|---|---|------|--------------------------------|-----|--------------------------------|------|---------------|------|
| % | % | % | °F | °C | psi | MPa | ksi | MPa | psi | MPa |
| ≥80 | ≤0.2 | <0.75 | ≥212 | ≥100 | ≥6525 | ≥45 | ≥22 | ≥152 | ≥1102 | ≥7.6 |

Primary materials: vinylester and corrosion resistant E-CR glass.

Bond strength exceeds ASTM D7957.

The data herein applies to straight bars only. For details on Mateenbar60™ structural product and bends, refer to those specific data sheets.

Packaging

Manufactured and shipped in the USA. Master bundles are available in standard sizes. Stock bent bars are available on request.

| BAR SIZE | WEIGHT PER 20-FT BAR (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) |
|----------|---------------------------|-------------------------------|-------------------------------|--|-------------------------|
| #3 | 2.24 | 500 | 1120 | 20,000 | 44800/22 |
| #4 | 3.60 | 250 | 900 | 12,000 | 43200/22 |
| #5 | 5.58 | 250 | 1395 | 7500 | 41850/21 |

Storage & Handling

Greenbar2X™ is outdoor-durable, though oxidation and UV exposure may cause surface discoloration, fading, or chalking. These effects are purely cosmetic and do not impact performance. For extended sunlight exposure, using a protective cover is recommended.

When handling and installing, use a fine-blade saw, grinder, or diamond blade for cutting; sealing ends is unnecessary. Space chairs properly for adequate concrete cover and use standard tying methods. Ensure concrete cover exceeds two bar diameters to prevent thermal cracking, and follow guidelines for bending and general reinforcement practices.



Upgrade Your Project with
Greenbar2X™

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