Owens Corning® Fiberglas™ Rebar Bent Bar is designed as a corrosion resistant lightweight electromagnetically neutral internal reinforcement solution for concrete.

- Makes concrete structures durable in aggressive environments.
- Provides longer service life compared with structures reinforced with steel.
- Complies with ASTM D7957 and CSA S807 Grade III material standards.

### Product Benefits

**Extended Service Life of Structures**
- Fiberglas™ Rebar is a proven corrosion resistant reinforcement designed to provide structures with longer service life.

**Increased Productivity**
- Four times lighter than steel, Owens Corning® Fiberglas™ Rebar can be installed faster with less labor.*

**Exceptional Strength**
- Twice the tensile strength of steel rebar.*

* Based on sample testing of #5 rebar.

### Applications

Owens Corning® Fiberglas™ Rebar is designed to reinforce concrete in:

#### Transportation Structures
- Bridge decks
- Traffic barriers
- Civil roadways
- Soft-eye for tunnels

#### Marine
- Seawalls
- Piles

#### Buildings
- Balconies
- Wall panels
- Foundations

#### High Voltage & Electromagnetic Fields
- Light & heavy rail
- MRI rooms

### Availability

Owens Corning® Fiberglas™ Rebar bent bars are available in North America and Europe in the following diameters: #3 (M10), #4 (M13), #5 (M16), #6 (M19), #7 (M22), and #8 (M25). Bent shapes can be fabricated for orders with detailed bar lists.
Straight Portion of Bent Bars, Technical Characteristics (ASTM D7957, CSA S807 Grade III)

<table>
<thead>
<tr>
<th>NOMINAL DIAMETER**</th>
<th>NOMINAL CROSS SECTIONAL AREA*</th>
<th>UNIT WEIGHT/LIGHT</th>
<th>GUARANTEED ULTIMATE TENSILE FORCE*</th>
<th>GUARANTEED ULTIMATE TENSILE STRENGTH*</th>
<th>ULTIMATE TENSILE STRAIN*</th>
<th>MEAN TENSILE MODULUS OF ELASTICITY*</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAR SIZE</td>
<td>in</td>
<td>mm</td>
<td>in²</td>
<td>mm²</td>
<td>lbs/ft</td>
<td>g/m</td>
</tr>
<tr>
<td>3</td>
<td>0.375</td>
<td>10</td>
<td>0.11</td>
<td>71</td>
<td>0.11</td>
<td>159</td>
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<tr>
<td>4</td>
<td>0.500</td>
<td>13</td>
<td>0.20</td>
<td>129</td>
<td>0.19</td>
<td>281</td>
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<tr>
<td>5</td>
<td>0.625</td>
<td>16</td>
<td>0.31</td>
<td>199</td>
<td>0.29</td>
<td>427</td>
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<tr>
<td>6</td>
<td>0.750</td>
<td>19</td>
<td>0.44</td>
<td>284</td>
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<tr>
<td>7</td>
<td>0.875</td>
<td>22</td>
<td>0.60</td>
<td>387</td>
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<td>810</td>
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<tr>
<td>8</td>
<td>1</td>
<td>25</td>
<td>0.79</td>
<td>510</td>
<td>0.73</td>
<td>1046</td>
</tr>
</tbody>
</table>

Primary materials: E-CR glass and vinyl ester resin.

* Provided in production lot QC certifications
** Product characterization tests; not included in production lot QC certifications
Minimum tensile strength for the bent portion of bent bars ≥60% of the values in the table above.

Packaging, Shipping, and Labeling

Bent bars will be palletized and shipped to the site. Lead time is subject to plant production schedules at the time of order processing. Customer-specific packaging requirements may be available upon request. Material traceability tags per ASTM D7957 or CSA S807 will be attached to bent bar bundles.

Storage and Handling

Product should be covered or stored away from direct sunlight. Follow guidelines in ACI440.5-08, “Specification for Construction with FRP Bars.” In general, field handling and placement is the same as epoxy coated or galvanized steel bars. However, 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. Place support chairs at two-thirds the spacing of support chairs for steel rebar. Plastic-coated tie wires are the preferred option for most projects. Use nylon zip ties when required for nonferrous reinforcing. In precast applications, secure fiberglass bars to the formwork to avoid float during compaction.

Safety

When using and handling Owens Corning® Fiberglas™ Rebar, proper personal protective equipment (PPE) is required. The surface of Owens Corning® Fiberglas™ Rebar has indented grooves and exposed fibers that may be abrasive to skin without proper PPE. Proper PPE includes canvas gloves and shirts with sleeves, long work pants, and study work shoes or boots. Refer to the “Construction & Renovation Site Safety Requirements” for more information.

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