There are over 50,000 structurally deficient bridges in the US, today. As our infrastructure ages, Engineers and DOTs across the nation are looking for smarter materials to rebuild our crumbling bridges and roadways.

Needed innovation will come from materials that will not corrode, enabling our infrastructure to last longer, with reduced maintenance and increased safety. Owens Corning® Aslan™ 100 Fiberglas™ Rebar is a stronger, more durable reinforcement solution compared to traditional steel rebar.

**BRIDGE DECKS THAT LAST LONGER**

**ASLAN™ 100 FIBERGLAS™ REBAR**

**Benefits**

- **STRONGER**
  
> 2X the tensile strength compared to steel

- **MORE DURABLE**
  
> Impervious to corrosion, longer service life

- **LIGHTWEIGHT**
  
> 75% lighter than steel: safer to install, labor and freight savings

- **COST COMPETITIVE**
  
> Competitive and consistent pricing

**Projects**

Over 100 bridge decks installed with fiberglass rebar

- Penobscot Bridge, Maine DOT
- Floodway Bridge, Manitoba
- Boone County Bridge, Missouri DOT
- Sierrita De La Cruz, TxDOT
- Brandon Bridge, Manitoba
- Emma Park Bridge, Utah DOT
Among the oldest bridges built to date with fiberglass rebar show zero signs of corrosion
Less than 0.1% of fiberglass rebar fibers were negatively affected by concrete environment after 15 years in service.

Extracted Cores SEM Images

Material Limits & Design Properties

Material Properties Compared to #5 Steel Rebar

<table>
<thead>
<tr>
<th>MATERIAL PROPERTY</th>
<th>FIBERGLASS REBAR</th>
<th>STEEL REBAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (Psi) ASTM 7205</td>
<td>105,000</td>
<td>60,000</td>
</tr>
<tr>
<td>Modulus Of Elasticity (Ksi) ASTM 7205</td>
<td>6700</td>
<td>29,000</td>
</tr>
<tr>
<td>Weight (Lb/Lf)</td>
<td>0.287</td>
<td>1.043</td>
</tr>
</tbody>
</table>

Data contained above is considered to be representative of current Aslan™ Fiberglas™ Rebar production and is believed to be reliable and represent the best available characterization of the product as of July 2011. Tensile test per ASTM D7205

Tested for Durability

Among the oldest bridges built to date with fiberglass rebar show zero signs of corrosion
Less than 0.1% of fiberglass rebar fibers were negatively affected by concrete environment after 15 years in service.

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