



ASLAN™

BRIDGE DECKS THAT LAST LONGER

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 Fiberglass™ Rebar is a stronger, more durable reinforcement solution compared to traditional steel rebar.

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



Sierra De La Cruz, TxDOT



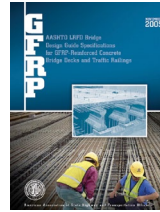
Brandon Bridge, Manitoba



Emma Park Bridge, Utah DOT

**Meets ASTM D7957
Material Limits &
Design Properties**

ASTM D7957 –
Standards specifications for solid
round glass fiber reinforced polymer
bars for concrete reinforcing.



AASHTO



ACI 440.1R

**Material Properties
Compared to #5
Steel Rebar**

MATERIAL PROPERTY	FIBERGLASS REBAR	STEEL REBAR
Tensile Strength (Psi) ASTM 7205	105,000	60,000
Modulus Of Elasticity (Ksi) ASTM 7205	6700	29,000
Weight (Lb/Lf)	0.287	1.043

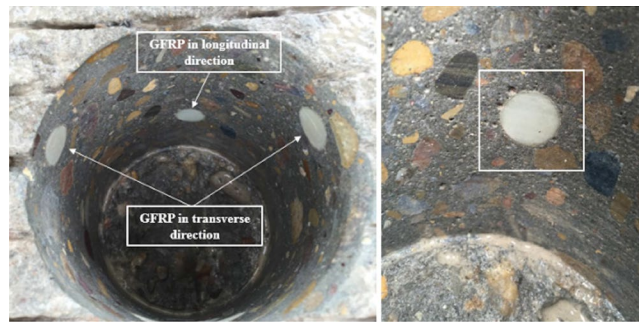
Data contained above is considered to be representative of current Aslan™ 100 Fiberglass™ Rebar production and is believed to be reliable and represent the best available characterization of the product as of July 2011. Tensile test per ASTM D7205

Tested for Durability

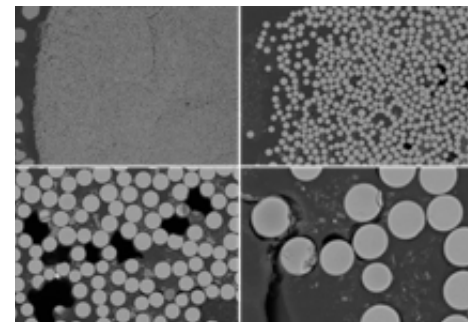
Among the oldest bridges built to date with fiberglass rebar show zero signs of corrosion

Less than 0.1% of fiberglass rebar fibers were negatively affected by concrete environment after 15 years in service.

University of Miami, ACI, et al
2017 Study



Extracted Cores



SEM Images



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Pub. 10023237 - Bridge Application Product Data Sheet_ww_06-2018_Rev0_EN. July 2020.

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