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 Fiberglas™ 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

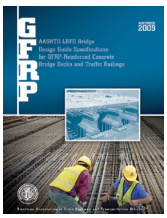

Sierrita De La Cruz, TxDOT


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

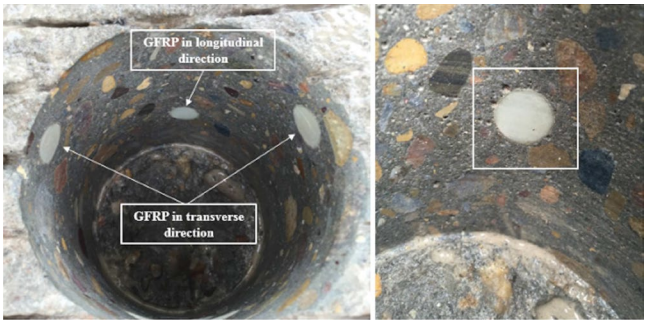
MATERIAL PROPERTY	FIBERGLASS REBAR	STEEL REBAR
Tensile Strength (Psi) **ASTM 7205**	**105,000**	60,000
Modulus Of Elasticity (Ksi) **ASTM 7205**	**6700**	29,000
Weight (Lb/Lf)	**0.287**	1.043

Data contained above is considered to be representative of current Aslan™ 100 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

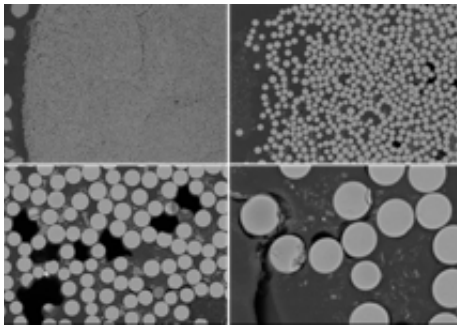
Tested for Durability

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.

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.