



INFRASTRUCTURE SOLUTIONS

OCIS 60GPA FIBERGLAS™ REBAR EIGHT SPANS. SEVEN PIERS. BUILT TO LAST.

ODOT BRIDGE, HENRY COUNTY, OHIO

Project Overview

Owens Corning Infrastructure Solutions (OCIS) 60GPa Fiberglas™ Rebar sizes #4, #5, and #6 were used to construct a nearly 1,000-foot, eight-span concrete bridge deck supported by seven piers on drilled shaft foundations.

Approximately 472,000 linear feet of OCIS 60GPa was recently used in the construction of a new bridge over the Maumee River in Napoleon, Ohio. Owned by the Ohio Department of Transportation (ODOT), the eight-span structure is just under 1,000 feet in length with a concrete deck supported by seven piers on drilled shaft foundations. The bridge connects Napoleon's two industrial areas and will allow traffic a direct route to US 24 from the south portion, which includes the Campbell Soup Company and more than 600,000 square feet of warehouse facilities.

Project Results

Engineers, architects, and specifiers are building smarter with next-level materials. OCIS 60GPa Fiberglas™ Rebar was selected to construct a lighter, more durable, corrosion-resistant bridge.

The bridge was built in two phases due to waterway restrictions within the Maumee River. The ready-mix supplier, Palmer Brothers, provided more than 1,000 cubic yards of ODOT QC2 4500 psi concrete, which is a standard mix for ODOT. The total quantity of structural concrete for the structure was approximately 2,600 cubic yards and finished ahead of schedule due to the favorable weather conditions. The next phase involves the completion of the roundabouts on each side.



**2X
STRONGER***

Exceptional strength



**4X
LIGHTER***

Faster install and increased productivity



**MORE
DURABLE**

Extended service life of structures

*Based on sample testing of #5 rebar, fiberglass rebar exhibits linear-elastic behavior to increase ultimate tensile strength.



Structure designed by Mannik & Smith Group Inc. for ODOT District 2. Vernon Nagel, Inc. (general contractor), Flatrock Bridge Group (rebar subcontractor).



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HOW WE BUILD NOW™

*Based on current pricing from date of publication comparing #3 PINKBAR™ with #4 grade 60 black steel. Price of steel varies by market and fluctuates over time.

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