

APPLICATION PROFILE



OHIO TURNPIKE LOOKS AHEAD WITH POLYMER CONCRETE JUNCTION BOXES

Precast polymer concrete enclosures manufactured by Quazite were used by the Ohio Turnpike Commission in the highway center median barrier walls. QUAZITE® 8" x 18" x 8" junction boxes house the signal, lighting and fiber optic raceways for the highway. Embedded in the center median barrier walls, QUAZITE® boxes offer superior weathering and protective qualities due to the water-tight design. The exceptional flexural strength of the fiberglass reinforced polymer concrete enclosures is another benefit — especially during the rigorous demands of slip forming the barrier wall.

The five-year project, coordinated by the Ohio Turnpike Commission, involved widening both the east and west bound lanes of Northern Ohio I-80 from two to three lanes to handle the ever increasing traffic volume. The lane widening project was in the center median strip, necessitating the addition of a center median barrier wall between the new lanes. The turnpike commission designed a raceway system to be incorporated into the barrier wall for signal and lighting cables. A fiber optic raceway was also included for future enhancements such as traffic surveillance and smart highway capabilities. In addition, a second multiple conduit system was installed for future lease revenues.

The original design called for steel junction boxes. However, after reviewing the system design with local Quazite representatives, Hasselbach & Associates, the consulting engineer and turnpike authority recognized the clear cut advantages of QUAZITE® for both the fiber optic and electrical lighting systems. The exceptional resistance of polymer concrete to salt and other

road clearing chemicals was a major advantage.

More than 2,000 boxes were used in the project. The QUAZITE® enclosures blend beautifully with the finished wall and will provide maintenance-free service for years.

TECHNICAL DATA

Product:	Barrier Wall Enclosures
Process:	Closed mold casting utilizing matched surface tooling
Materials:	QUAZITE® precast polymer concrete, gasketed covers
Sizes:	PC0818 — 8" x 18", gasketed enclosure



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NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.

APPLICATION PROFILE QZ-1510 MEDIAN BARRIER JUNCTION BOXES