



# Project Profile

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## Erie Art Museum – Pervious Concrete

Erie, PA  
July 2010



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|-----------------------|---|
| Application:          | Fiber-Reinforced Pervious Concrete                        |
| Owner:                | Erie Art Museum, 411 State Street, Erie, PA 16501         |
| Architect:            | Edge Studio, Pittsburgh, PA                               |
| Civil Engineer:       | Civil and Environmental Consultants, Pittsburgh, PA       |
| LEED Consultant:      | Evolve, Pittsburgh, PA                                    |
| Construction Manager: | Spaulding Banks Project Management, Erie, PA              |
| Concrete Contractor:  | Maya Brothers Inc., Erie, PA                              |
| Ready-Mix Supplier:   | Baycrete Ready-Mix, Erie, PA                              |
| Fiber Reinforcement:  | FORTA® Green-Net® ¾" recycled fiber @ 1.5 lbs./cubic yard |

### Description:



Green-friendly construction practices played a large role in the \$9 million expansion project at the Erie Art Museum in Erie, PA. The project embodied a wide range of green practices and sustainable design methods, and will achieve LEED certification at the silver or gold level, making it the first certified building in the city of Erie. One of the eco-friendly practices was the construction of an exterior pervious concrete parking and delivery pavement slab, designed to facilitate storm-water runoff. Due to the pervious, high-porosity cross-section that allows for rapid percolation of storm water, conventional steel mesh is not an appropriate reinforcement. As a result, pervious contractor Maya Brothers Inc. utilized an eco-friendly, three-dimensional fiber reinforcement to control cracking and add toughness to the pavement. FORTA® Green-Net® fiber, made from 100% recycled polypropylene, was used at a dosage of 1.5 lbs. per cubic yard of concrete to add early stability and future toughness. The pervious pavement involved 46 cubic yards of concrete, placed at 6" thick over the 17' x 75' driving area. The Green-Net® fiber mixed quickly and uniformly, was not significantly noticeable on the surface finish, and did not negatively affect the porosity of the resulting pervious pavement.

[Also see FORTA® Project Profile: Erie Art Museum-Ground and Polished Floor]