

Swimming Pool Geofoam Project -not too deep to revitalize



The Project:

The Ashwaubenon Community and School District faced a dilemma - what do you do with an indoor pool that is over 48 years old and has outlived its expected life? Think “*outside of the pool*” and fill it in with Plymouth Foam’s Durafill GeoFoam and give new life to the building!

Restoring this aged pool was not a viable option as there were too few of lanes and replacement parts were no longer available. The community decided to build a new pool, but what do you do with the old one?

The building that housed the pool was still in good condition. Filling it in with Engineered EPS Foam and pouring 5” of concrete on top “gives this building a new purpose.” This new area will be used as a commons area with tables and chairs for students to eat lunch.

Like all schools districts, needs change. Filling the pool in with foam has a number of possibilities for the district. Foam can be removed and the area can be repurposed for maybe stadium seating or a performance stage. The possibilities are endless.

Product:

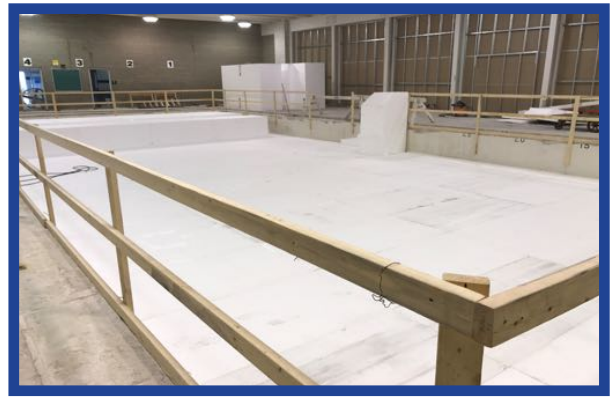
DuraFill Geofoam, which is Engineered Expanded Polystyrene, was used on this project as it has a predictable engineered value, has uniform performance and eliminates differential settlement. DuraFill was the perfect solution.



DuraFill Geofoam can be up to 100 times lighter than soil and 50 times lighter than traditional fills with similar compressive strength. Geofoam has the ability to reduce mass and connected gravitation physical forces. This super lightweight fill material can help reduce soft soil loads. Its weight-to-strength load bearing characteristics are uniquely effective in reducing the weight burden on underlying soil or structure without sacrificing compressive strength.



Boldt Workers Installing The Durafill Blocks

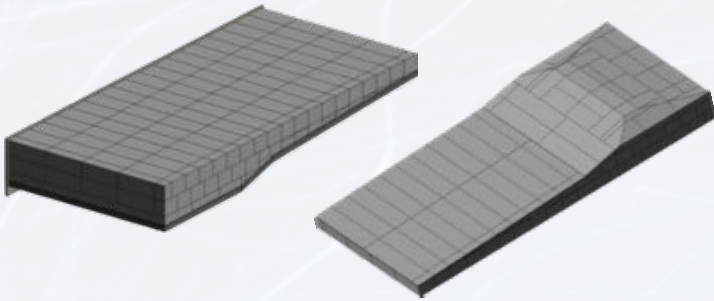


Last Row Going In Before Concrete Topping

The Project Challenge:

Filling in a pool sound easy, but reducing in-fill weights and loading pressures of traditional fills such as gravel or stone can be impractical or unachievable. Geofoam to the rescue, however filling in a pool with different depths and various slopes is not an easy task.

Boldt Construction's design team working together with Plymouth Foam Geofoam Consultant, John Calkins, and was able to offer DuraFill Geofoam blocks that were manufactured in various sizes to fit to the contour of the pool. The pieces were labeled and shop drawings were used to install the pieces.



Boldt Construction was the general contractor and they "did an excellent job of making the pieces work and come together."

Using a local contractor and a local manufacturer has many benefits for the local economy. Tax money collected for the school district is being spent locally and benefits from the "local multiplier effect." This multiplier means the money is recirculated 3-5 times in the local economy and is a key tool for creating more local jobs. The school district saved money on transportation cost since the manufacturing facility is less than 75 miles away - now that is "thinking outside the pool."

Project Participants

School District: Ashwaubenon, WI
Ashwaubenon High School

General Contractor: Jerome Portnoy
Boldt Construction

Engineer: Fred Parish
Brander Engineering

Geofoam Consultant: John Calkins
JC Edison & Assoc. - Plymouth Foam

Common Applications for DuraFill Geofoam Engineered Insulation:

DuraFill Geofoam Engineered EPS Insulation has superior strength-to-weight ratio, great R-value performance characteristics, low moisture absorption and does not leach into surrounding soils. This product is used for a wide range of below grade applications including:

- Slope Stabilization
- Stadium Seating
- Perimeter foundations
- Insulated footers
- Utility protection insulation
- In-fill and void replacements



DuraSpec Building Products

www.goplymouthfoam.com