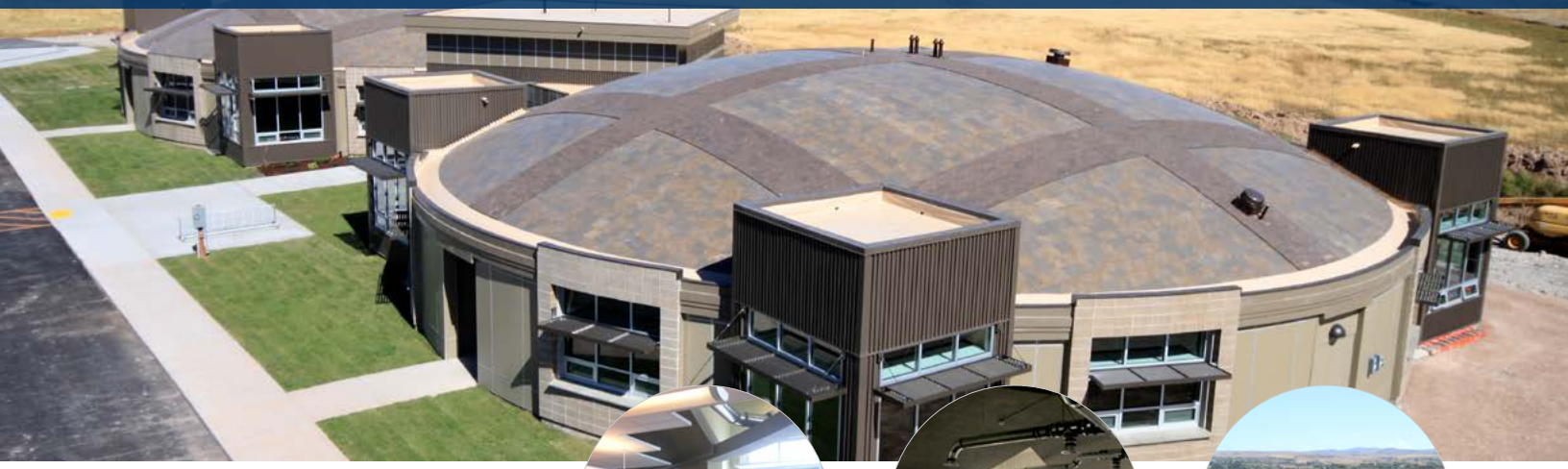
DOME TECHNOLOGY®

School

Monticello Montessori School | Ammon, Idaho, USA



Since the domes require no interior structural walls, administrators can reconfigure the space without major structural changes.

This school carries lower utility cost, since case studies suggest domes are 30 to 40 percent more energy efficent than traditional construction.

Geometry renders domes resistant to harsh weather, such as wind, snow, and seismic activity.

Scope of Work:

- Value Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Civil Engineering
- Foundation Construction
- Stem Wall Construction
- Dome Construction
- Additional Steel & Concrete Construction

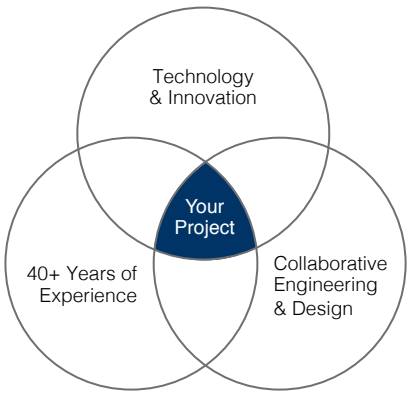
○ None ◒ Some ● All

Dimensions & Features:

- 2 Domes: 49.3m (162ft) Wide x 7.3m (24ft) Tall on a 6m (20ft) stem wall
- Low-Profile Dome Design
- Post-Tension Elevated Ring Beam
- Integrated Parapet Gutter

Qualifications:

- All Weather Construction
- Energy Efficiency
- LEED Tested/Certified
- ACI Certified Nozzlemen
- Qualified Polyurethane Applicators
- Meets or exceeds IBC seismic, wind, or snow provisions.



Overview:

Educator David Meyer had a dream of creating Idaho's first Montessori charter school and turned to Dome Technology to deliver on that dream. The catch was that the school had to be built in 144 days—ready just in time for the first day of school. One hundred and ninety-two students were counting on it.

Innovation was key when planning the school, and since domes require no interior structural walls, administrators can reconfigure the space without major structural changes. Electrical upgrades are also easy. The school carries lower utility costs, since case studies suggest domes are 30 to 40 percent more energy efficient than traditional construction and require less equipment and utility costs for heating and cooling, project manager Daren Wheeler said.

Because the domes are built atop 10-foot insulated concrete-form walls, there was plenty of room to install a host of windows—one of the school's best features, said school business manager Nari Mendenhall. "Everyone complements us about the windows and how each room just feels more open than it actually is because of all the windows. It's nice because you don't feel boxed in," she said.

Also, Monticello's modular design allows for the school to grow. "At some point if the board chooses to, it's very easy to add onto and build more domes and create additional space," Meyer said.

"With Dome Technology we were able to design a custom building, a learning space filled with light, with extra square footage so the kids didn't feel crowded. The construction is a good use of public funds because it's solid, and it's going to last," Meyer said.

"Some people consider Dome Technology a construction company however we like to consider ourselves a protection company. Whether our structures are protecting grain, fertilizer, sugar, or our most valuable asset… our kids, Dome Technology engineers and builds to safeguard and protect your most valuable assets," Bradley Bateman, CEO, Dome Technology.

Read more about this project at: link.dometechnology.com/2694