CANADIAN DOME INDUSTRIES LTD.

SIMPLE • EFFICIENT • THE MONOLITHIC DOME

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Commercial Applications

What is a Monolithic Dome?

A monolithic dome describes a disaster-proof building that is 50%-70% more energy efficient than a conventional building. Four materials: concrete, rebar, polyurethane foam, and a woven-vinyl airform are combined to construct a seamless, insulated, clear-span, reinforced concrete structure.

What can a monolithic dome be used for?

Perhaps the most diverse category, commercial applications of a monolithic dome can vary vastly and include:

- Schools
- Churches
- Multi-purpose facilities
- Rinks
- Gymnasiums
- Fitness facilities
- Aircraft hangars
- Office spaces
- Shopping centers
- Rental properties
- And much more...

Why build a Monolithic Dome?

Regardless of the location or intended use, a monolithic dome provides numerous advantages:

Energy Efficient - the monolithic dome requires an approximate two Watts per square foot of floor area for heating an occupied structure. This is roughly 50%-70% more energy efficient than a conventional building.

Low Operational Costs - the only maintenance item of the monolithic structure is the exterior airform, roughly a 20 year schedule, if left bare. Combined with lower energy requirements and reduced insurance rates, the monolithic dome is drastically cheaper to operate.

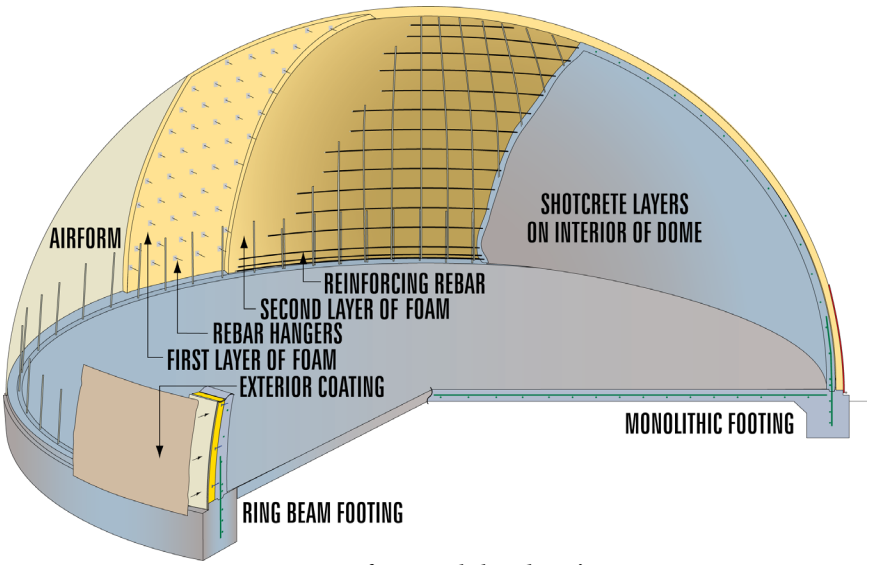

Figure 1 - Cutaway of a monolithic dome's construction

Figure 2 - Performing arts center in Gainsville, Texas

Figure 3 - Convention center in Taichung, Taiwan

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Rapid Construction - a monolithic dome structure can be built start to finish in weeks. Once the airform is inflated, the rest of the construction is completed inside - weather delays do not exist when building a monolithic dome.

Architecturally Masterful - the only limitations on aesthetics of a monolithic dome building are your imagination and finances. A monolithic dome can be a unique masterpiece that will instantly become a recognizable landmark within the community.

Safety - whether the monolithic dome is serving clients, staff, or both, it will provide peace of mind no matter what is happening outside. Monolithic domes have been hit by: tornadoes, hurricanes, wild fires, and lightning strikes. Not only were the structures safe in all these cases, the contents were safe too.

Clear Span - generally overlooked, the fact that a monolithic dome is free of any supporting columns leads to two unique advantages: in a spectator setting, every seat is the best seat and when considering renovations, the interior layout is no longer restricted by awkwardly placed beams.

LEED Ready - a monolithic dome is a perfect fit for owners desiring LEED certification. Energy efficiency, locally sourced materials, and minimal construction waste are hallmarks of the monolithic dome construction.

Who is Canadian Dome Industries Ltd.?

Canadian Dome Industries Ltd. is a wholly Canadian owned company and part of the CSBP Group of companies, which have been providing safe and quality service to multiple industries since 1968.

Figure 4 - Gymnasium in Avalon, Texas

Figure 5 - Church in Birmingham, Alabama

Figure 6 - Rental property in Italy, Texas

Figure 7 - Office in Italy, Texas

Figure 8 - Church in Lacombe, Alberta