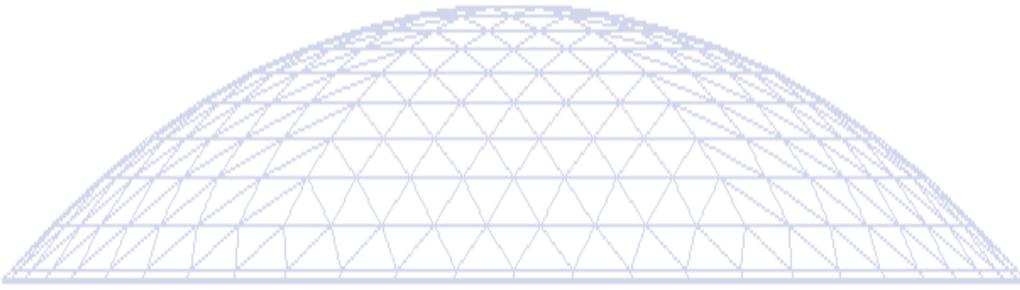


Ultraflote LLC



Domes, Geotruss™ & Flat Panels



Ultraflote: Quality, Service, and Resources to Perform

Established in 1972, *Ultraflote* LLC is an international leader in the design, manufacture, and installation of geodesic domes, flat covers, and Geotruss roofs.

Ultraflote has the financial strength, research and development expertise, and internal corporate resources to design and execute the largest, most sophisticated projects in the most demanding field environments in the world.

Products and Services

Ultraflote's Corporate Commitment is to Design Integrity, Quality Materials, and Superior Service for:

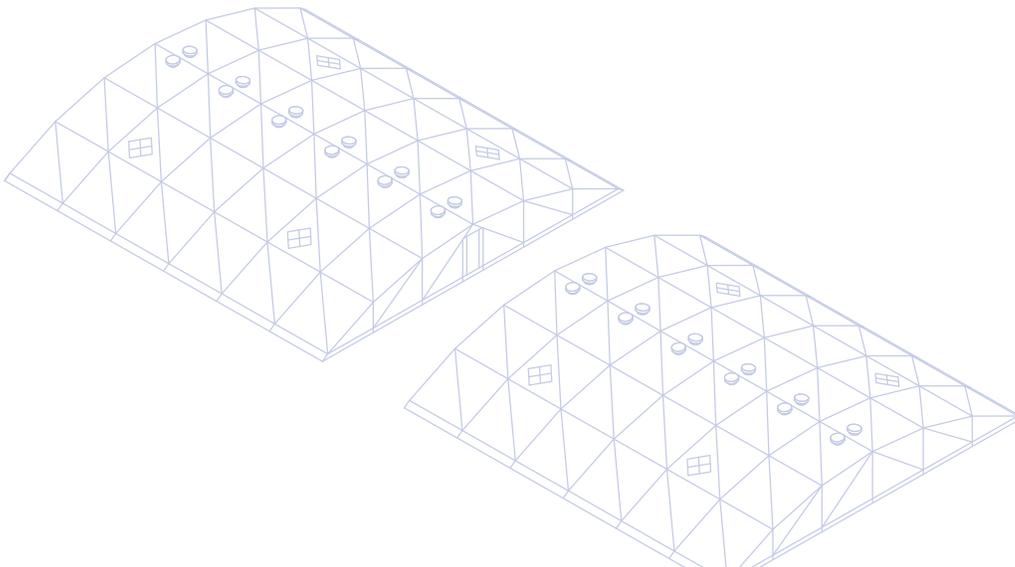
- *Ultradome™* all Aluminum **Geodesic Dome** structure.
- The *Ultraflote Geotruss™* structure for rectangular and square tanks.
- The *Ultraflote Finned Seal™* Flat Panel Cover for both circular and rectangular tanks. Ideal for odor control applications.
- Full line of Accessories including: dormers, access hatches, doors, venting systems, skylights, duct penetrations, handrails, platforms, walkways, stairs, ladders, and gutters.
- Other custom designed accessories fabricated to your specifications.

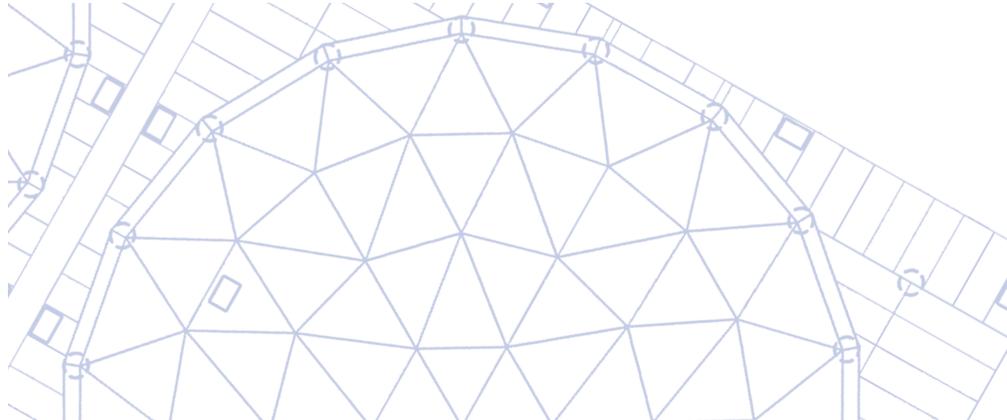


Total Project Responsibility

Ultraflote® provides complete turnkey dome and cover project services:

- Initial budget preparation.
- Computer aided customized engineering.
- Precision shop fabrication.
- Shipping by dedicated trucks.
- Complete turn-key installation or supervisory personnel for your crews.





The Ultradome™: Lightweight, Maintenance Free Structures with Clear Span Versatility



The Ultradome™ spaceframe structure is the ideal solution for many industrial, commercial, and public works applications. The inherent design benefits of a geodesic style dome, especially the clearspan feature, ideally satisfies architectural and engineering requirements for the following applications:

- Water and wastewater treatment plants - both for new construction and retrofits.
- Odor control applications.
- Bulk solids storage as well as other architectural and industrial applications.



The Ultradome™ roof is a fully triangulated, spherical, spaceframe structure designed to be self-supporting from its periphery with primary horizontal thrust contained by an integral tension ring. The framework is covered with attractive, non-corrugated aluminum panels.

Maintenance Free

Ultradome™ structures are virtually maintenance free. The aluminum alloys utilized have a proven history of being weather resistant and, therefore, do not require coating. While other roofing material may rust, corrode, or suffer from solar degradation, the Ultradome™ roof will remain virtually maintenance free for the life of the unit.

Design Versatility

The Ultradome™ roof is custom engineered for your structure and for your specific design requirements. The self-supporting design allows for maximum overhead space utilization and provides interference free operation for equipment such as rotating clarifier mechanisms and trickling filters.

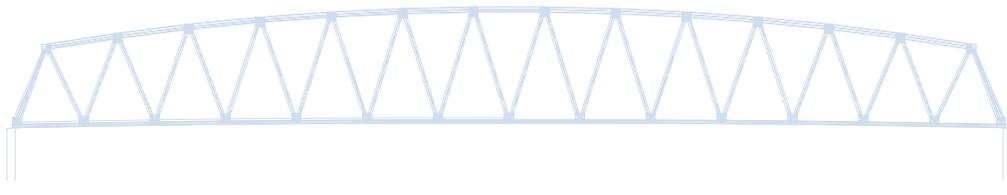
Lower profile designs are also available to reduce the air volume under the dome for odor control or for improved appearance.

There are many optional accessories available such as skylights, vents, dormers, and hatches. Our engineering department will custom design these and other accessories to suit your particular needs.

Project Planning

Our sales force will be pleased to assist you in preparing preliminary budgets, setting initial specifications, and providing typical drawings for use during development phases of a project.





**The Ultradome™ "Batten" and "Lapped" Designs
Dual Designs to Meet Your Needs**

The **Ultradome™ Lapped Design** is more appropriate for rainwater and leak-sensitive, non-pressurized applications, such as potable water tanks, because it eliminates the need for rubber sealing strips and caulking compounds. Instead, the panels are downhill lapped and fastened with 300 series stainless steel screws equipped with weatherguard washers. The downhill laps rely on gravity to keep out water just like traditional roofing systems, thereby providing a longer service life.



To complement the physical testing and evaluation of various structural details, several in-house computer programs which thoroughly analyze all stress conditions were developed. This produced two designs which incorporate a number of unique features that improve reliability, reduce maintenance, and extend the life of these domes: the *Ultraflote Batten* design and the *Ultraflote Lapped* design.

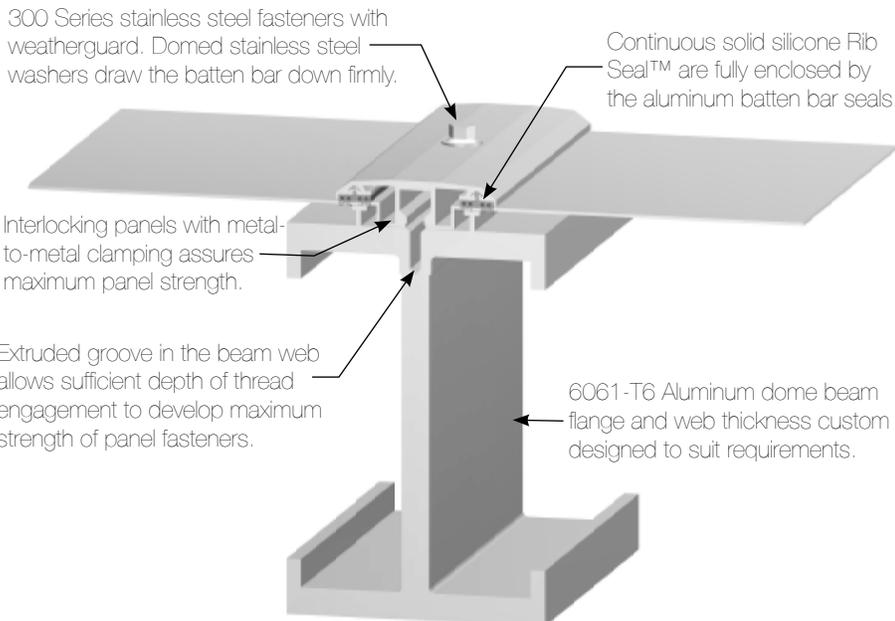


The **Ultradome™ Batten Design** is most appropriate for wastewater treatment tanks or sludge tanks where odor control or other air handling is involved. This design uses a batten bar to hold the panels and elastomer strips and silicone sealant to make a weather seal.



The design of the Rib Seal™ enclosed batten seam incorporates two (2) continuous solid silicone multi-ribbed seal strips, which are fully enclosed by the batten bar and are under uniform compression to ensure maximum sealing efficiency. The use of highest quality silicone material and sealants in the Rib Seal™ helps produce the lowest profile batten bar in the industry.

Both versions of the **Ultradome™** roof are fully triangulated, spherical, spaceframe structures that are self supporting from its periphery with primary horizontal thrust contained by an integral tension ring. Each Ultradome™ structure is individually designed and engineered for a specific application. All components are prefabricated to exacting tolerances, and quality programs assure compliance with specifications.



"RIB SEAL™" ENCLOSED BATTEN SEAM





By minimizing the volume of vapor space under the cover, the **Ultraflote Fined Seal™ Flat Cover** is ideal for your odor control application.

Each *Fined Seal Flat Cover* consists of individual, interlocking panels made up of reinforced extruded aluminum planks that are assembled using a tongue and groove design welded at the perimeter to specialized extrusions. The *Fined Seal Flat Cover* becomes a strong yet lightweight, corrosion-resistant structure. The extrusions are designed to form a unique interlocking seam between the panels and their supports. Each panel can be designed to cover a span of up to 38 feet without supports. Truss supports are available for larger spans.

Our novel "A" Frame aluminum support trusses are intrinsically stable and can be designed for virtually any span/loading combination without subjecting the existing equipment to unplanned loadings.

The Fined-Seal™ design provides an air tight seal for odor control. This design allows for addition of optional hidden latches that lock the panels tightly together yet are quickly and easily released for access under the panels. Lifting handles are also built in along the ends of every panel.

The Ultraflote® GeotruSS™ Cover and Fined-Seal™ Flat Cover

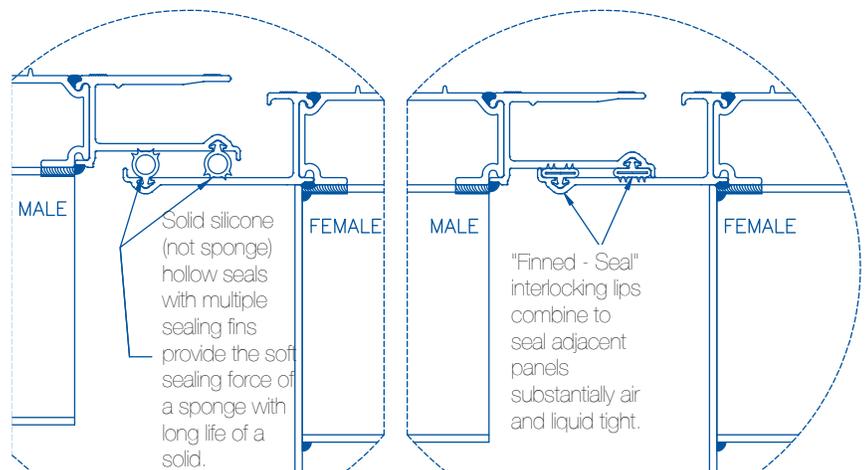
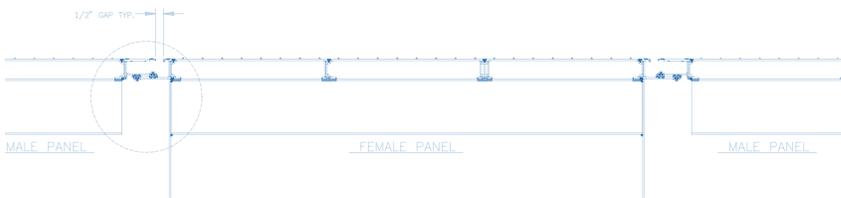


The **Ultraflote GeotruSS™** cover is designed specifically for rectangular or square basin applications or can be retrofitted to existing aeration basins, clarifiers, or sludge storage lagoons.

The **GeotruSS™** cover is also a fully triangulated aluminum space frame structure which utilizes the Rib-Seal™ Batten seam to firmly clamp the closure panels in place.

A wide range of accessories including dormers, skylights, and vents are available with the **GeotruSS™** cover.

The Ultraflote GeotruSS incorporates the many advantages of the Ultradome into a structure designed for rectangular tanks.

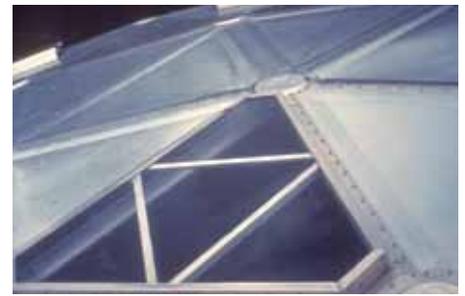


FINNED-SEAL™ EXTRUDED FLAT PANELS



Dormers

Dormers provide entry through the *Ultradome™* or *Geotruss™* cover with a standard size vertical doorway, located conveniently at the periphery. Available in many sizes and shapes to suit application.



Skylights

Triangular clear acrylic panels replace all or part of aluminum panels to provide natural lighting inside the structure. Available in many sizes and shapes to suit application.

Ultraflote: Accessory Items Available



Ductwork/ Penetrations

Duct penetrations permit the passage of air through the cover, by attachment of a waterproof flange directly to the *Ultradome™* panels. Custom-designed round or square ducts can also be supplied and installed inside or outside the dome to suit your airflow demands.



Walkways

Walkways can be custom-designed to fit any specific requirement. All aluminum construction includes handrails and stairways.



Walls

Ultradome™ or *Geotruss™* cover can be built on sidewalls of various heights and designs to provide full headroom or to allow clearance for internal equipment, etc.

Also available:

Venting Systems, access hatches, gutters, and other custom designed accessories fabricated to your specifications.





Fabrication

All components are prefabricated to exacting tolerances using computer generated material bills and cutting schedules. Our inspection and quality assurance program facilitates rapid field assembly without schedule upsets. All critical parts are pre-drilled and, where appropriate, pre-assembled to eliminate field errors, speed erection, and reduce cost.

Installation

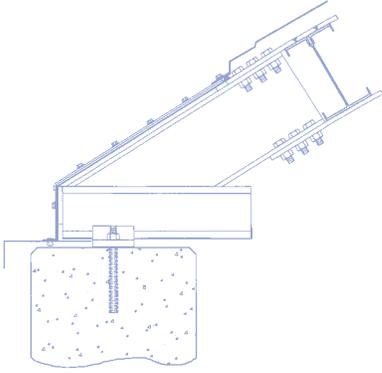
Our experienced supervisors and crews are ready to construct your *Ultradome* roof throughout the continental United States. Ultraflote supervisors are also available to oversee the Ultradome's construction throughout the world. Our supervisors are responsible for compliance with all specifications, adherence to schedules, and cooperation with the customer's representative in the field. Since many projects involve some last minute changes, use of our own supervisors and crews allows greater flexibility to react quickly.

Design

Each *Ultradome* is individually designed according to customer specifications and/or prevailing local building codes. Utilizing an *Ultraflote* developed interactive matrix analysis program, a minimum of 16 different loading combinations are thoroughly analyzed to ensure safety and integrity under all loading conditions.

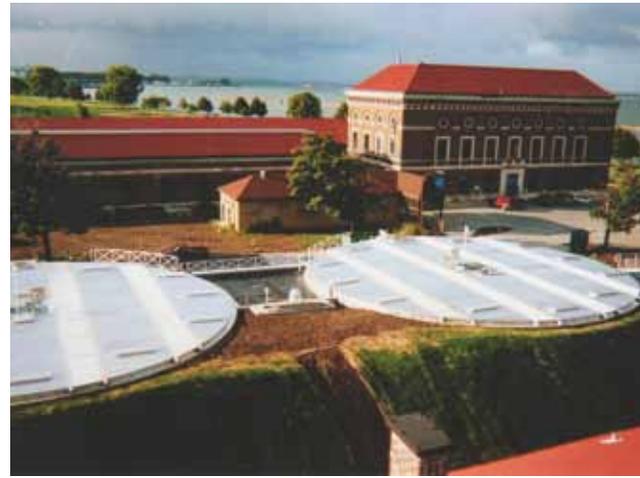


Backed by the Ultraflote Team



We are the leader in the industry because our satisfied customers have brought us repeat business and recommend us to their associates. We at *Ultraflote* realize that our continued success is dependent upon providing the highest quality products and the best service:

- **Engineering**
The best technical people assure that your installation is state-of-the-art. Our computer knowledge, years of field experience, and involvement on committees keeps us years ahead of the competition.
- **Purchasing**
Long-term relationships with major aluminum mills give us an edge on deliveries and quality control.
- **Manufacturing and Shipping**
Highly automated equipment, rigorous quality assurance programs, large inventories, and dedicated trucks ensure on time delivery.
- **Construction Management**
Training, experience, and company pride make the *Ultraflote* supervisors and crews the best in the industry.
- **Sales Support**
Our sales staff know your system and how to solve your storage problems. They will work closely with you from project conception through custom engineering, proposal preparation, field construction, and project completion.



Covering The Globe

Our numerous installations have been completed in the U.S. from Hawaii to Maine and in many countries around the world.

Ultraflote is truly a global corporation with a network of both domestic and international representatives around the world.

Mission Statement

"ULTRAFLOTE LLC is dedicated to meeting the needs of our customers"

ISO 9001 : 2008
Certified



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