



APEX DOMES

BY TANK CONNECTION

ALUMINUM DOMES
THAT OUTPERFORM!





COVERING THE DETAILS FROM START TO FINISH



Unmatched aluminum dome quality
Unmatched aluminum dome design • Best warranty on materials & installation

DETAILED
DESIGNS • SPECIAL COATINGS • INSULATED

SUPERIOR SOLUTIONS

Premier aluminum dome design • Best warranty on materials & installation
Competitive pricing

WE OFFER ALUMINUM DOMES FOR ALL TANK DESIGNS

NEW CONSTRUCTION • RETROFITS • CUSTOM DESIGNS • SPECIAL COATINGS • INSULATED

APEX DOME APPLICATIONS

WATER/WASTEWATER • DRY BULK • PETROLEUM • ARCHITECTURAL

WHAT MAKES THE BEST ALUMINUM DOME DESIGN?

Proprietary design software, automated drawings & download files for manufacturing
Proprietary extrusions, struts, batten bars & node cover designs • State-of-the-art dome fabrication equipment
All aluminum construction • Corrosion resistant • Low maintenance • Unmatched product quality
Superior field performance • Superior aesthetics • Reduced vapor loss • Available for expedited global shipments

PRECISION PERFECTED!

Apex Domes represents the pinnacle of precision designed aluminum covers. These advanced design innovations have evolved from the most experienced engineering department in the industry. Apex Domes ISO 9001 Certified facilities utilize cutting-edge 3D computer modeling technology and state-of-the-art fabrication equipment. Not only is an Apex Dome backed by the best minds, dynamic solutions, and modernized tech, it is an American-made product created by employee owners. We start each day with a philosophy of excellence to **MEET AND EXCEED OUR CLIENT'S EXPECTATIONS.**

Apex Domes are fully compliant with API 650 and AWWA specifications. Project pricing is competitive with any supplier. Constructed entirely of aluminum, utilizing our proprietary component fabrication, Apex Domes are corrosion resistant, virtually maintenance free and designed for extended service life.

Direct factory crews are available for installation support. Apex Domes offers complete turnkey design, supply, and field installation. Dedicated services, innovative solutions and a wealth of industry experience combine to provide the total package for your aluminum cover requirements.

THE APEX DOMES ADVANTAGE

 **STRONGEST SPACE FRAME DESIGN**

 **OPTIMUM COST EFFICIENCY**

 **CLEAR SPAN DESIGN**

 **FACTORY DIRECT INSTALLATION**

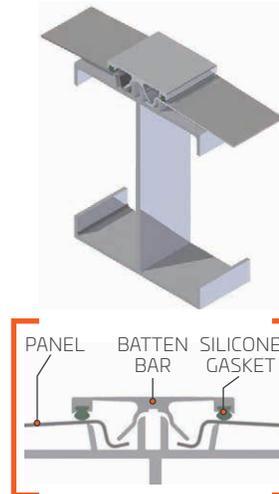
 **QUICK FIELD INSTALLATION**

 **SUPERIOR AESTHETICS**



APEX DOMES BATTEN BAR DESIGN

An Apex Domes beam design uses flange stiffeners for maximum beam strength. The batten bar attachment slot does not attempt to pre-form threads for screws that attach the batten bar to the beam, since a 1/4" bolt thread pattern requires tolerances in excess of what can be extruded in aluminum. Instead, this slot is sized for a thread rolling fastener that can be removed and installed multiple times in the same slot. The batten bar is designed as a leaf spring to compress the low memory set silicone gasket between the panel and the batten bar. The panel edge bend is designed such that when the batten is tightened, the panel is pushed into the gasket. This is the only batten system with three redundant features to ensure a leak free design. The batten legs are also designed to prevent twisting when personnel access the dome roof.



COMPETITOR BATTEN BAR DESIGN

The attempt to form threads in the beam at the extrusion mill is not practical due to tolerances of the normal extrusion process. A screw will strip out the threads in the slot after one or two installations and will not develop maximum strength. No flange stiffeners are allowed due to manufacturing limitations. The gasket compression is the sole device for sealing the joint.





APEX DOMES NODE DESIGNS

An Apex Dome engineered node detail utilizes a proprietary extrusion design.



The spun aluminum gusset cover provides precision seal.



COMPETITOR NODE DESIGNS

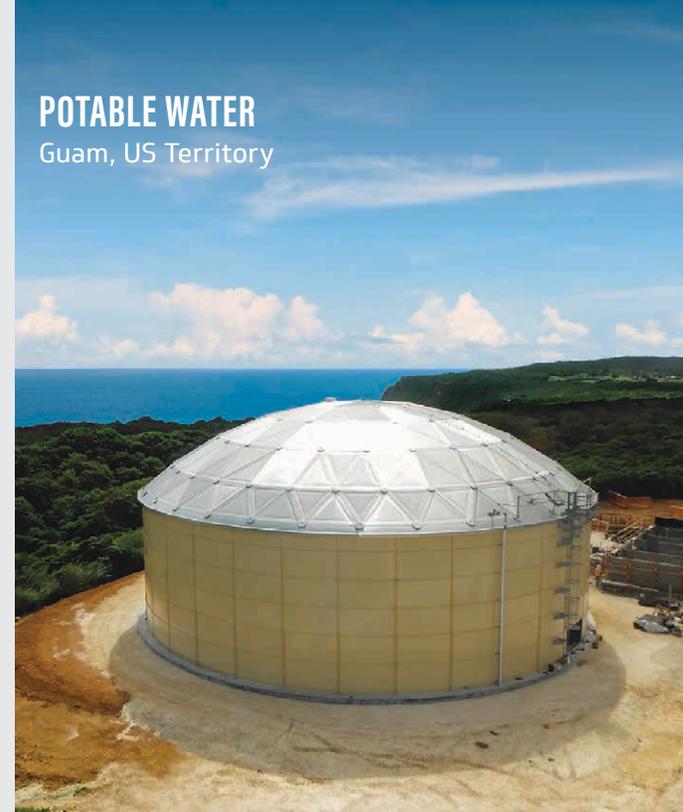
The competitor node design utilizes a pressed cover. This provides an inconsistent seal.

NEW CONSTRUCTION

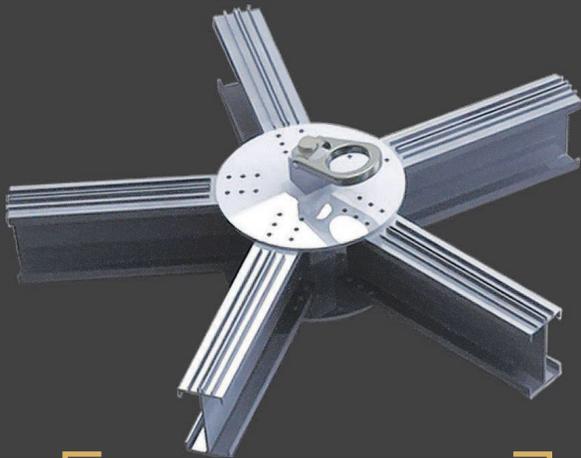
Superior design is something you can see! The engineers at Apex Domes have developed an aluminum dome technology that enhances field performance, reduces vapor loss and alleviates many field installation issues. A robust batten bar system provides enhanced structural support and a leak free design.

Apex Domes' sizes range from 12 to 1,000 feet (3.5 to 304.8 meters) and can be installed by certified field installation crews. Materials and installation come with a standard two-year warranty. You can be confident that you have chosen the best engineered aluminum cover available in the market today.

POTABLE WATER Guam, US Territory



APEX DOMES CENTER SAFETY LINE SUPPORT



The center safety line support uses a hoist ring designed for **5,000 lbs. lateral load.**

POTABLE WATER São Paulo, Brazil



REVERSE OSMOSIS FLUSH/FEED WATER Republic of Singapore



MUNICIPAL WATER Dunedin, New Zealand



POTABLE WATER Qatar



RETROFIT APPLICATIONS

Apex Domes designs and installs stand-alone domes for any type of bolted or welded steel tanks as well as concrete tanks. In many instances, an aluminum dome may be requested to replace an existing roof that is failing or the customer may wish to add a dome to an open top tank. Apex Domes can provide the right solutions, the most economical design, and the highest quality aluminum dome for your application.

MUNICIPAL WATER
Elrama, Pennsylvania

APEX DOMES RETROFIT APPLICATIONS

CONCRETE TANKS ❖ WELDED TANKS
BOLTED STEEL TANKS

MUNICIPAL WATER
Greeley, Colorado

MUNICIPAL WATER
Napa, California

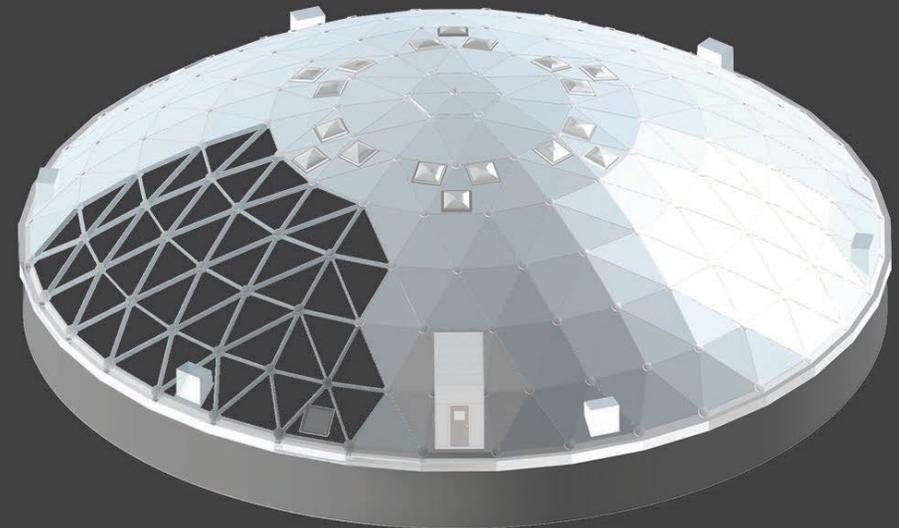
CUSTOMIZED DESIGNS

By listening to the client's needs, we provide storage tank solutions that remedy the problems faced in the past. Does your storage project require specialized customization? Apex Dome skilled engineers and PMs will provide you with the perfect solution tailored to your needs.

FERTILIZER
Wever, Iowa

TAILORED TO **YOUR** REQUIREMENTS

INTERNAL WALKWAYS • WALL EXTENSIONS • VENTILATION
SKYLIGHTS • DORMERS • HATCHES • DOORS



SPECIAL COATINGS

Apex Domes offers many product enhancements customized to our client's needs. Among these are specialized dome coatings. Kynar-500 coating provides added durability for the elements and a diverse color swatch to meet your overall tank color specifications.



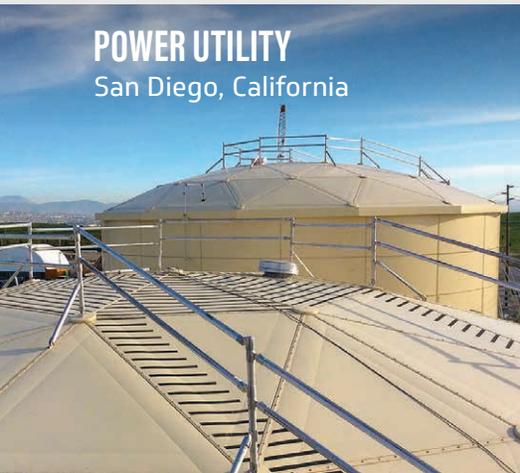
MUNICIPAL WATER
Lowell, Oregon

KYNAR-500 SPECIFICATIONS

- ❖ Meets AAMA, API, AWWA
- ❖ Factory applied in controlled environment
- ❖ Numerous color options - Including matching existing coatings
- ❖ Resistant to direct sunlight & ultraviolet radiation
- ❖ Premium application for most chemicals & solvents

POWER UTILITY

San Diego, California



KYNAR-500 CHARACTERISTICS

- ❖ Color retention
- ❖ Flexibility
- ❖ Gloss retention
- ❖ Stain resistance
- ❖ Chalk resistance
- ❖ Up to a 20 year warranty
- ❖ Corrosion resistance

EMISSIONS & ROOF OPTIONS



PETROLEUM
Panama

Apex Domes has addressed the issues in other covers in the market and developed a dome design that has superior vapor loss protection on internal and external floaters. Durable roof construction and precise design, fabrication and installation methods produce a better barrier against emissions. Apex Domes offers various emissions and roof types.

APEX DOMES EMISSIONS & ROOF OPTIONS

- ❖ Traditional external floating roof tank
- ❖ Suspended internal floating roof
- ❖ Domed external roof tank
- ❖ Internal floating roof with dome
- ❖ Traditional internal floating roof tank
- ❖ Suspended internal floating roof & dome

INTERNAL FLOATING ROOF & DOME ADVANTAGES

- ❖ Lowers emissions
- ❖ Capacity gain at top (no internal rafters)
- ❖ No columns to maintain
- ❖ Decreased installation time
- ❖ No paint to apply or maintain
- ❖ Option of suspending IFR to dome

EXTERNAL FLOATING ROOF & DOME ADVANTAGES

- ❖ Lowers emissions
- ❖ UV protection: Eliminates wear & discoloration of EFR
- ❖ Increases lifetime of EFR
- ❖ None to minimal time required to decommission tank for dome install
- ❖ No paint to apply or maintain
- ❖ Eliminates weatherization from EFR
 - snow, ice & rainwater

INTERIOR INSULATION

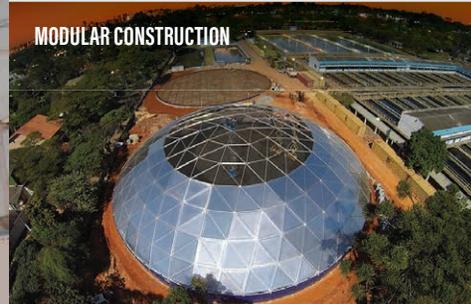


Apex Domes provides interior insulation at up to three inches in thickness. The insulation panels can be applied either on the ground during assembly or after the dome is completed.

ALUMINUM DOME CONSTRUCTION

Apex Domes strives to provide the best customer experience available. We are committed to providing the highest quality aluminum covers and services available worldwide. Our passion for safety, employee development, innovation, management excellence and continuous improvement sets us above other suppliers.

MODULAR CONSTRUCTION



CRANE-LIFTED DOME



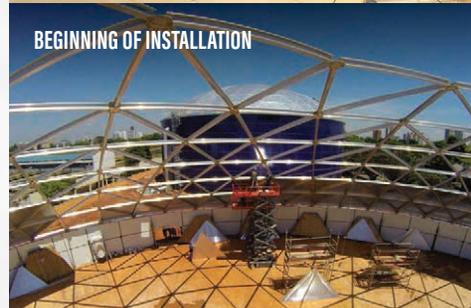
INTERIOR INSTALLATION



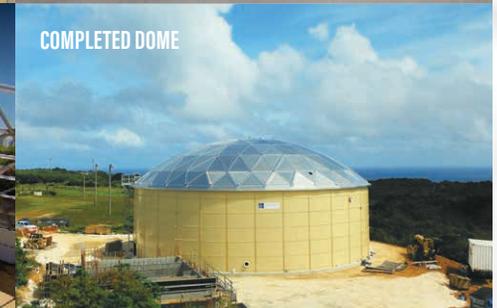
EXTERIOR INSTALLATION



BEGINNING OF INSTALLATION



COMPLETED DOME



CERTIFICATIONS

- ❖ ISO 9001
- ❖ IKRAM (Indonesian Potable Water)
- ❖ ISPM 15 (International Lumber Requirement)

📍 **APEX DOMES:** 3609 North 16th Street, Parsons, KS 67357

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ALUMINUMDOMES.COM

STAY **CURRENT**
STAY **CONNECTED**



CONNECT WITH APEX.
ALUMINUM DOMES
THAT OUTPERFORM!