

TEMCOR Clear-Span Aluminum Domes for Bulk Material Storage Applications



BULK MATERIAL STORAGE SOLUTIONS

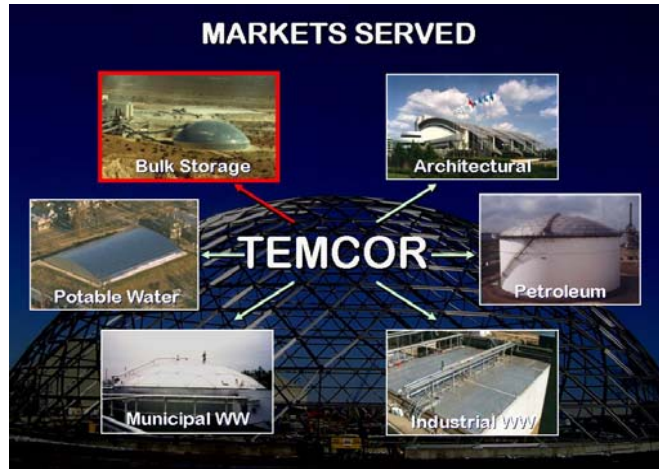


Quality • Customer Support • Design Innovation



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Temcor Rollwell Domes Pvt. Ltd.
 Mumbai, India



TEMCOR, founded in 1964, designs, manufactures and erects proprietary aluminum clear-span structures for a wide variety of applications and markets.

Temcor head office is located in Los Angeles, California, with a state-of-the-art manufacturing plant on the eastern seaboard close to the deep-sea port of Savannah, Georgia, enabling effortless shipping to all corners of the globe.

As the worldwide leader in aluminum clear-span structures, Temcor supplies domes and a variety of other structures for bulk material storage, petroleum, water and wastewater, and architectural markets.

Temcor, with Rollwell Conveyor Components Pvt. Ltd., has now formed a joint venture company, Temcor Rollwell Domes Pvt. Ltd., in order to directly serve the needs of the Indian market.

TEMCOR ALUMINUM DOMES & STRUCTURES designed for all conditions & applications

- Cost effective cover solutions utilizing technical expertise in aluminum structures for over 30 years.
- Over 7000 domes installed in 70 countries.
- All structures are manufactured with corrosion resistant aluminum alloys.
- Extreme climatic conditions handled with ease: heat of the Middle Eastern desert typhoon winds of 300 km/hr on a Pacific Island snow loads of 1500 kg/m² in the Antarctica



50 m (164') diameter designed for 1465 kg/m² (300 psf) snow load

TEMCOR IS COMMITTED TO THE DEVELOPMENT OF ADVANCED TECHNOLOGY AND INVESTING IN ITS FUTURE.

Technology Leader ... always at the leading edge of dome design technology.

Engineering Excellence ... technical staff with vision and focus.

Commitment to Quality ... ISO 9001 certified and desire to exceed clients' expectations.

GLOBAL REACH

Innovation borne from the demands of the global market and the ingenuity of the personnel at TEMCOR will ensure our continued leadership role in the design of clear-span aluminum structures for all market sectors.

Global Enterprises, including Holcim, CRH, Italcementi, Disney, Universal Studios, Heidelberger, IBM, Formosa Heavy Industries, Shell, BP, Exxon, Chevron, Texaco, ...

Governments and Their Agencies including the Shanghai Institute of Architectural Design, U.S. Army Corp of Eng., Kuwait Ministry of Public Works, Marshall Islands Ministry of Public Works ...

International Contractors including CH2M, Fluor, Bechtel, Degremont, Morse Knudsen, Foster Wheeler, Oderbrecht, Metcalf & Eddy Int'l, Parsons Eng. ...

... have all made TEMCOR a valued member of their design/build teams.

Why Aluminum?

Corrosion Resistance

- Surface oxidizes quickly to create a hard protective layer.
- No additional surface protection required.
- Superior in sea coast (salt air), industrial (chemicals) and wastewater (chlorine/sulfur) environments.

High Reflectivity / Low Emissivity

- Does not allow external conditions to influence the process or product inside (high reflectivity: reflects heat away/low emissivity: does not emit heat into the process), unlike steel.
- Maintains more stable & moderate interior temperatures.

Smelted (uniform) Metal

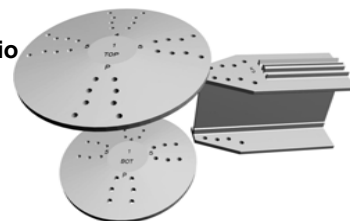
- Aluminum's structural properties are not altered in the manufacturing or installation process, unlike concrete.

Light Weight

- 1/3 of steel

High Strength to Weight Ratio

Ease of Installation



WHY TEMCOR? Consider the following ...

Temcor Stands Behind its Products

- Our confidence in our design and the manufactured product is absolute.

Safety During Erection

- Simple tools required
- Light weight materials
- No large cranes for construction of dome
- No welding, therefore no fire hazard

Capital Cost

- Lighter foundations/less civil work (foundations up to 20% lighter than for similar steel structures)
- Faster erection/lower labor costs
- Single source responsibility

Erection

- Reduced labor requirements (up to 33% lower than for steel domes)
- Precision manufacturing eliminates field errors
- All parts are match marked for nearly "fool proof" installation
- Lower-skilled labor force for erection can be utilized
- Reduced construction time: erected in 1/2 the time of steel domes and 33% faster than competing aluminum domes

Cost of Ownership

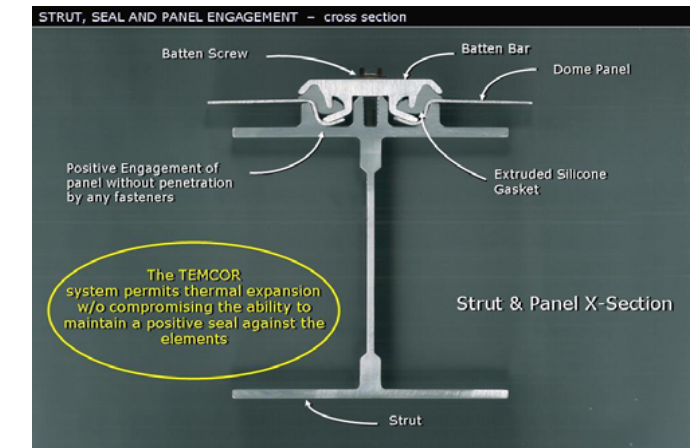
- 50 - 100 year life
- Corrosion resistant
- No maintenance
- Leak proof
- No painting or re-coating

Design / High Tolerance Manufacturing

- Efficient & secure connections
- Reduced field errors
- Reduced field erection time



TEMCOR DOME KEY DESIGN ELEMENTS



Temcor strut and panel system mechanically locks the panels in place securely, incorporating a seal with a fully engaged gasket. This design is the key to being able to provide effective water and gas tight domes.

The robust upper and lower flanges resist transverse deflection. Long-term performance in the intended service is important – structures are designed to keep the customers satisfied for life without any maintenance.

Temcor uses solid silicone for its batten seals. Silicone is an inert material not affected by UV. Proof of performance lies in the fact Temcor has never replaced a silicone gasket because of failure or diminished performance due to UV exposure. Silicone manufacturers such as Pecora offer a 25-year warranty. We have over 30 years of proven use.

The closure system requires high degree of accuracy in the manufacturing process. This system not only ensures a good seal, but also provides a much higher ultimate dome panel load bearing capacity.

The panels in Temcor domes are easily removed and replaced as deemed necessary, typically without the need to replace the batten seals. This unique feature is made possible only through the utilization of the Temcor panel engagement and sealing system. The ability to remove panels facilitates entry in areas of the dome where no access hatches had been provided, without affecting the dome's future performance.

The use of lockbolts and precise part fit is enabled by high tolerance manufacturing, which in turn facilitate **quick and trouble-free dome installations.**

For more information please contact TemcorRollwell:

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