



CLEAR SPAN ARCHITECTURAL ALUMINIUM DOMES

Efficient in design, distinctive in appearance, unsurpassed in quality and value - Temcor® aluminium domes are as beautiful as they are efficient and enduring. The aluminium dome is a unique and patented triangulated space truss skinned with aluminium panels secured by a patented batten closure system. With an ability to cover clear spans from 10 to more than 300 meter, aluminium domes are specified for churches, arenas, exhibition halls, planetariums, observatories and many other applications wherever clear span roof systems are needed. Aluminium integrated structural frames are permanent and lightweight. Optional panel systems offer eye-dazzling options.

Dome Features:

- able to withstand high loads by providing greater stiffness and strength to weight ratio than any other dome geometry system (like snow loads of up to 165 pounds per square foot and wind loads of up to 150mph or 240km/hr)
- the panel design is specifically engineered to support loads of up to 500 pounds on any one square foot
- high energy efficiency of an aluminium dome translates to reduced operating expenses. Since they're made of aluminium, they have the inherent advantage of high heat reflectivity and low emissivity. This means lower heating and cooling costs
- maintenance free, as the permanent aluminium exterior never rusts, rots, degenerates, nor solar degrades
- because aluminium domes use less material and labor than conventional constructions, overall costs are lower and construction time is shorter
- the built-in advantages and beauty of an aluminium dome will be appreciated for many years to come
- light weight and clear span structure manufactured from aluminium and stainless steel
- can be fitted on tanks in service with a minimum of modifications required
- expected service life in excess of 50 years
- can be designed for each specific project
- easy installation, full installation manuals and project support available

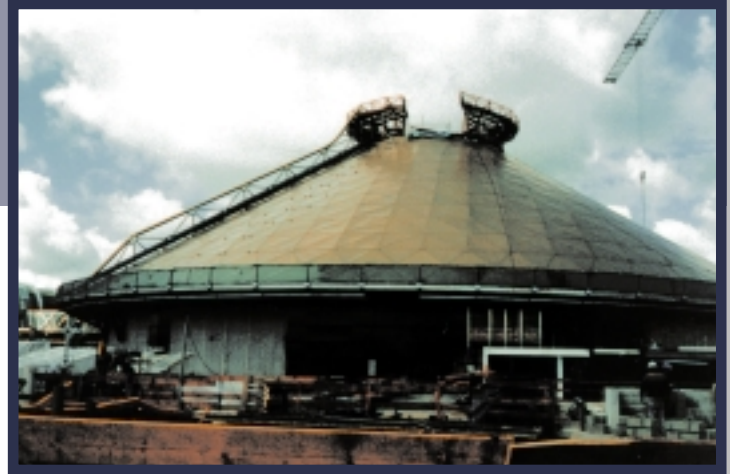


Self supporting structure:

Geodesic domes are entirely self-supporting. Depending on the design and the supporting structure, reaction forces at the base supports of the dome are minimal. For this reason many of our domes are installed on PTFE-covered sliding supports. The dome itself is strong enough to deal with its own internal forces. In other cases however support walls are used to distribute loads from fixed bearing points of the dome. Any dome will be designed to deal with local circumstances, local engineering codes and building regulations.

Aluminium dome design:

As a result of the light weight and maintenance free characteristics of an aluminium structure, an aluminium dome is an option for any project where an esthetical structure is required, covering large areas. The design of the dome structure will be tailor made to fit any specific project and its requirements. Our extensive experience and track record in this particular field, backed up by an experienced engineering and design department is the best available in the market. A wide variety of structures, panel materials, different finishing and detailing will exceed your expectations on realising an eye-catching and functional building.



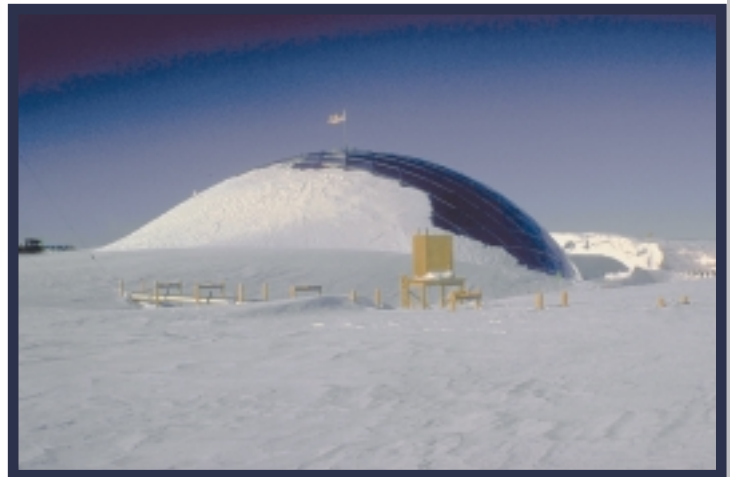
Space Mountain, Disneyland Paris, France.



Shanghai International Gymnastics Center, Shanghai, China.



*Des Moines Botanical Gardens,
Des Moines, Iowa, USA - 150' (46 meters).*



*U.S. Navy South Pole 164' (50 meters),
300psf snow load (1465kg/m²).*



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