

*Bulk storage dome for CBR
 Cement, Mojave, USA
 (102m in diameter)*

ALUMINIUM DOMES FOR BULK STORAGE

Our unique space truss design and highly engineered components combine to make aluminium domes the ideal solution for challenging environmental enclosure problems. Whether it is keeping the elements out or getting the largest amount of bulk in the smallest amount of space, an aluminium dome has proven itself time and again. Consider the advantages in bulk storage and material handling. Domes offer the ideal span-to-rise ratio in standard and custom designed configurations for any clearance requirement. In applications requiring vertical headroom near the dome's edge, aluminium domes can be erected on vertical steel wall frames, providing maximum unhampered space for material handling.

Light and Strong

Yet another advantage of a Temcor® dome is its light weight. This means reduced foundation costs. But its weight belies in its strength. When applications require, aluminium domes can even be designed to support heavy processing equipment. From the blazing Mojave Desert to the humidity of Singapore and the gale force winds and snow of the Antarctic, aluminium domes have repeatedly proven their strength, durability and flexibility.

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)
- maintenance free, as the permanent aluminum exterior never rusts, rots, degenerates, nor solar degrades
- economic construction as domes use less material and labor than conventional structures. Therefore overall costs are lower and construction time is shorter
- the built-in advantages and beauty of an aluminum dome will be appreciated for years to come
- light weight and free-span structure manufactured from aluminium and stainless steel
- full installation manuals and project support available



Large, clear spans:

The possibility to cover large diameters of up to 900ft (270m) offers unique solutions for material handling and environmental problems. There are no columns, no trusses, no internal supports or other obstacles hampering equipment configurations or transfer of stored materials. Apart from that the dome structures used are strong enough to support the suspensions of concentrated equipment loads and strong enough to withstand the harshest climates.

Light weight:

The light weight of an aluminium dome reduces foundation costs. The dome itself will keep the elements out, prevent the stored materials from spreading under strong winds and shield it from direct sun light exposure. Spraying of stored materials is significantly reduced or will not be required at all anymore after covering the material storage area.

Supporting sidewalls:

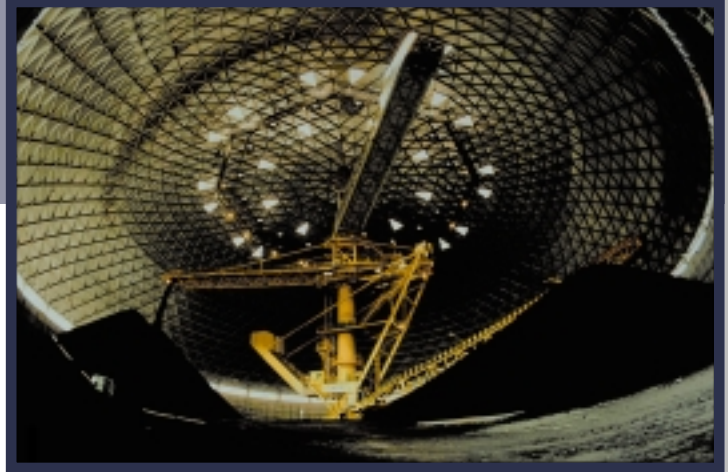
The dome can be installed on vertical steel, stainless steel or aluminium frames in situations requiring vertical headroom near the dome's edge. This will provide maximum unhampered space for material handling.

Unique batten bar design:

The unique and patented batten bar design of an aluminium dome is a tremendous asset. The used materials will not deteriorate under ultra-violet light or elevated temperatures. The unique batten bar construction is not only the basis for a leak-free dome structure, but it also adds structural strength to the dome roof.

Installation:

Domes can be installed in many different ways, depending on the site conditions, the size and the available time for installation. There are very few structures however that can match the engineering and production time required for supplying a dome. Besides this a dome is a very economical and esthetical cover for large areas.



Interior view bulk storage dome for FPC Taiwan, coal storage 393' (120m in diameter).



Bulk storage dome 393' (120m) under construction at FPC in Taiwan.



Completed 393' (120m) bulk storage domes after completion at FPC in Taiwan.



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