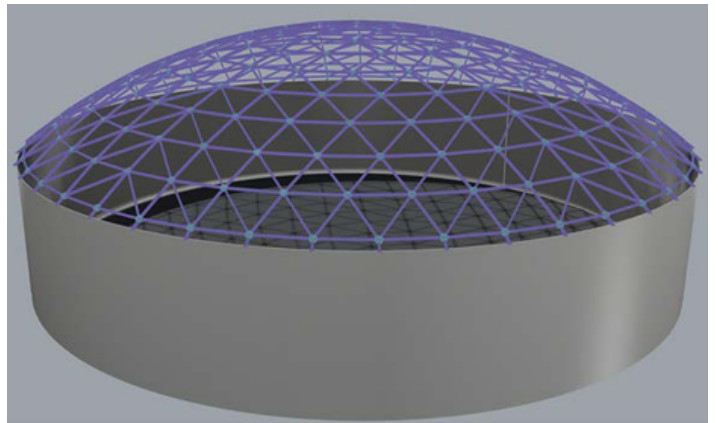
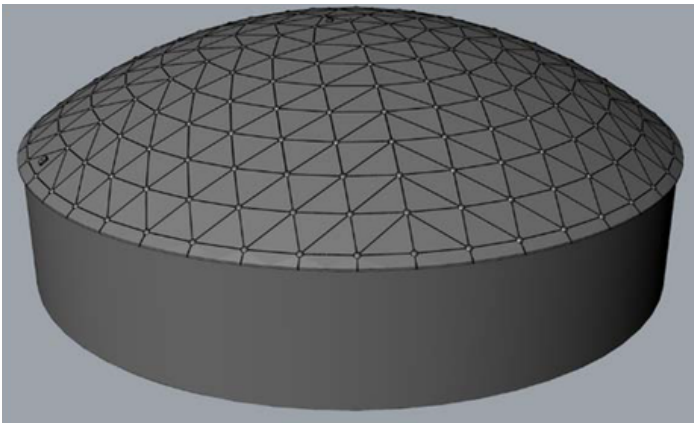


# Geodesic Tank Dome

A Geodesic Tank Dome is a clear-span aluminium cover and integrated roof system designed to minimise hazardous vapour emissions while, at the same time, preventing water from entering storage tanks.

Ideal for both new construction and retrofit projects, dome covers are corrosion-resistant, lightweight, durable and virtually maintenance-free, which translates to longer life and lower costs. They can be shipped anywhere in the world and erected quickly on site, usually with no interruption to tank operations.



## Design and Construction:

The assembled structure complies with the design requirements of API 650 Appendix G. Calculation and design are carried out in accordance with Eurocode 1 and 9, using matrix methods of structural analysis.

The dome is a fully triangulated structure designed to be self-supporting from its periphery; integral tension distribution eliminates the need for roof columns and extensive reinforcement of tank walls. "I"-type beams are joined to aluminium node plates with bolts and nuts. This assembled structure has a truncated semi-spherical shape with a radius of 0.7–1.2 times the tank's diameter.

The dome covers are fabricated from high-strength aluminium alloys that resist corrosion, as well as chemical, ultraviolet and ozone degradation.

