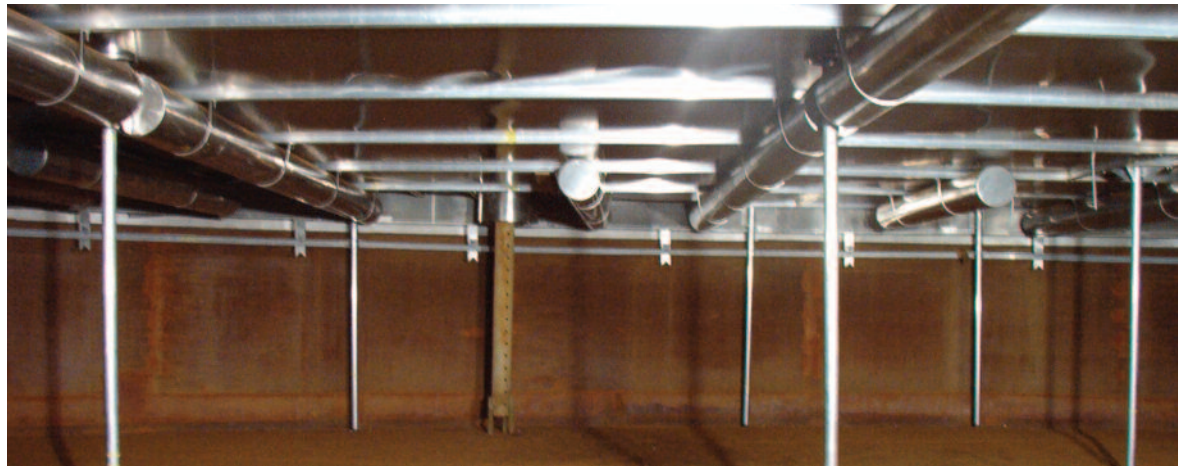




UNIDECK® Aluminum Internal Floating Roof



The UNIDECK Aluminum Internal Floating Roof has been successfully protecting storage tanks and stored liquid products for over 30 years. This success is attributed to the advanced design and high quality of the UNIDECK roof combined with experienced installation personnel.

The UNIDECK structural design parameters meet or exceed the requirements of API Standard 650, Appendix H. The main interconnecting grid structure has a high strength-to-weight ratio, using contamination free and corrosion resistant aluminum alloy tubular pontoons and extruded channel beams. These flotation pontoons and structural members provide maximum flotation and strength capable of withstanding loads generated by product turbulence and inspection personnel.

UNIDECK roofs are known for their rugged construction, durability and efficiency. They are light-weight, corrosion resistant and virtually maintenance free.

The UNIDECK peripheral rim and deck penetrations isolate and trap product vapors, preventing their escape into the atmosphere. Several types of primary and secondary seals including stainless steel mechanical shoe primary seals are available, all of which are designed to accommodate wide variations in the tank shell and the rim space.

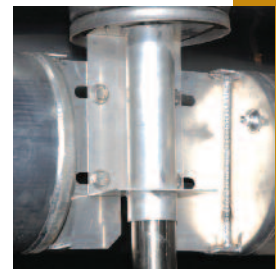
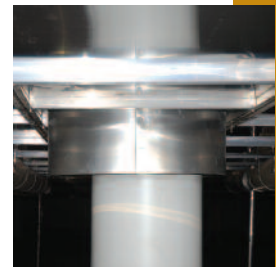
All UNIDECK component parts are designed to pass through an existing shell manway, thereby eliminating additional expense and downtime required for door sheets and other access openings. Since the roof parts are pre-fabricated and pre-assembled, installation time is reduced to a minimum, resulting in less tank downtime.

Let HMT put our three decades of experience in the design, manufacture, supply and installation of aluminum structures to work for you today.

Contact your local HMT representative to discuss the full suite of products and services that will satisfy all your AST needs.

The UNIDECK® Roof's Unique Design Features Include the Following:

- The UNIDECK roof is completely constructed without welding and can fit through a 24 inch manway, allowing for much faster installation and quicker tank turnaround.
- The UNIDECK roof can be altered to a hybrid stainless steel/aluminum design when the stored product is not completely compatible with the aluminum alloy.
- The UNIDECK roof can be cable suspended from either cone roof tanks or geodesic dome roofs. The option allows roof height adjustments to be completed from the outside of the tank. With no leg structure under the roof; cleaning, inspection and repairs to the tank bottom are simplified.
- PTE (Teflon®) UNIPAD insulators are used to insulate the aluminum leg from the carbon steel tank. This prevents the common issues associated with dissimilar metals.
- The UNIDECK design reduces the common failure modes of skin and pontoon roofs by reinforcing the pontoon gussets and end caps through a unique and proprietary method.
- Support pads are utilized between the deck sheeting and the leg support housing to prevent potential damage to the decks sheeting during normal operation.
- The girder structure is designed with a maximum spacing of 5 feet, pontoon spacing is a maximum of 10 feet and maximum pontoon length is 28 feet.
- The UNIDECK roof is easily fitted with a mechanical shoe seal utilizing a laminated Teflon vapor barrier fabric. This provides a compatible seal system to the many products and additives stored in floating roof tanks.
- High capacity vents, floating suctions, inlet diffusers, and special anti-rotation devices are just a few of the many options that can be designed into all UNIDECK roofs by the dedicated engineers at HMT.



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