



DECKMASTER ADVANCED COMPOSITE FLOATING ROOF



The DeckMaster advanced composite floating roof is a seamless, non-metallic full-contact floating roof. It's gas-tight polypropylene honeycomb core is "sandwiched" between multiple layers of fiberglass utilizing modern high-grade Vinyl Ester resins designed to be resistant to most hydrocarbons in the petrochemical industry. The result is a smooth, seamless and virtually indestructible full-contact floating roof that also is corrosion free, thus necessitating little or no maintenance.

The DeckMaster remains in full contact with the stored product, preventing evaporative losses. The low-profile cross section of the roof maximizes the storage capacity of the tank. Designed to accommodate both a mechanical shoe primary seal and a secondary seal, the DeckMaster is fully gas-tight, leak proof and unsinkable. The robust design also enables it to withstand operational stresses such as pigging and butter washing.

Key user benefits:

- **Maintenance-free** — corrosion resistant, requires no painting, coating or spare parts
- **Minimal construction time & disruption** — all materials fit through one 24" manway
- **Unsinkable** — due to its multi-cell, gas-tight, leak-proof honeycomb core and the cured-in-place multi-layered fiberglass construction
- **Fully engineered and field-proven** — 27+ years, hundreds of installations, internal and external with dozens of major oil & gas end-users
- **Maximizes tank capacity** — low-profile cross-section increases working capacity
- **Virtually indestructible** — aerospace composite sandwich construction
- **Zero deck seam emissions** — qualifies as welded construction per EPA air rules
- **Qualifies for perimeter-only fire protection** — per NFPA 11, 2015 edition
- **Complies with API 650 Annex H**

Key design features:

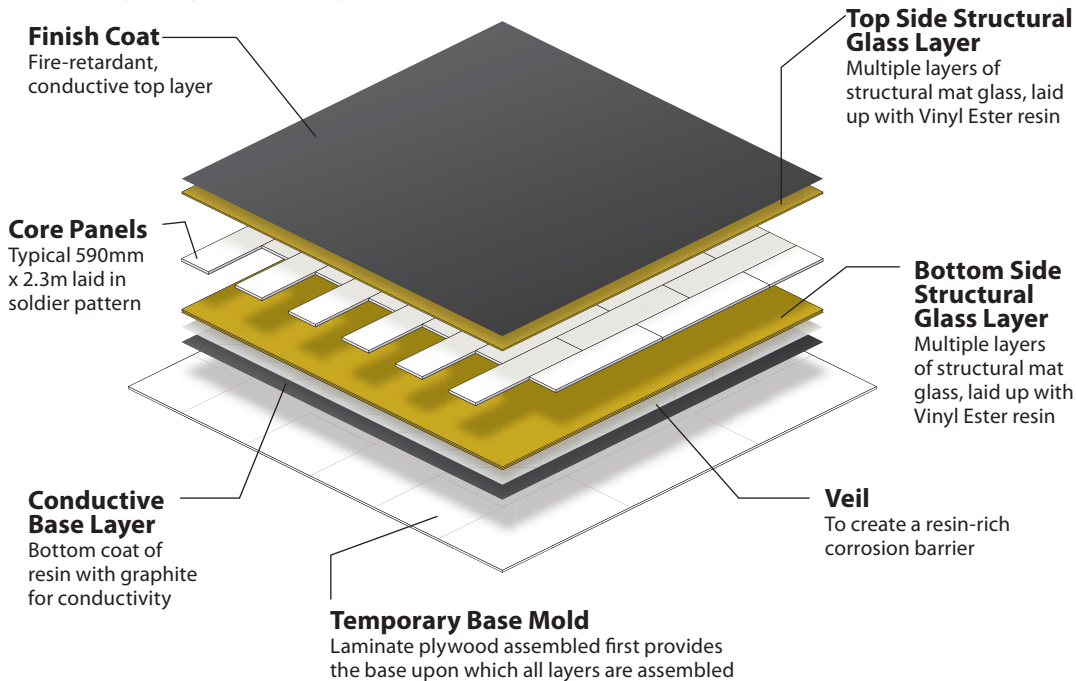
- **Full-contact design** — to eliminate vapors below the internal floating roof
- **Gas-tight design** — to accommodate both a mechanical shoe primary & secondary seals
- **High strength** — to withstand pigging, light-end slugs and turbulence from high fill rates
- **Seamless** — single-piece construction qualifies for zero-deck-seam emissions per EPA air rules
- **Chemically resistant** — to all products typically stored in floating roof tanks
- **Fire retardant** — tested by certified third-party specialist (Last Fire Group) and approved for perimeter-only fire protection per NFPA 11, 2015 edition.
- **Bolted Option** — available in pre-fabricated bolt-up panels for specific applications.
- **Smooth surface excellent for cleaning**

Protecting your world, one tank at a time™

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ONE-PIECE AEROSPACE COMPOSITE CONSTRUCTION

The DeckMaster advanced composite floating roof is constructed from multiple layers of high-strength, corrosion-resistant composite materials. Fully engineered and evolved over twenty-five years of history in demanding environments, the DeckMaster is a complete system which performs exceptionally well in every area that most users require, including corrosion resistance, emissions reduction, seal support, strength and durability, low maintenance, working capacity, safety, fire retardancy, ease of construction and long life span.



TECHNICAL SPECIFICATIONS

- The DeckMaster advanced composite internal floating roof's design, material supply, installation, supervision and field testing are under the guidelines of EN14015 and EEMUA 159
- All fiberglass lamination conforms to ASTM C 581-83/DIN 53393/DIN 18820
- Fire resistance tested to EN 13501-1, ASTM Test Method E-84 & NFPA 11 testing protocol
- Both the top and bottom protective anti-static coating of the DeckMaster conforms to API 650 and EN14015, for dissipation of static electricity

SealMaster™ Internal Primary Seal

The SealMaster™ liquid mounted primary seal features exceptional vapor sealing qualities, approaching "zero" gap sealing ability. The SealMaster™ has been designed for compatibility with any product normally stored in floating roof tanks.

If you are looking for a seal which combines the features of unsurpassed sealing capability, effective operation, advanced materials of construction, long service life and product compatibility that is competitively priced, choose the SealMaster™ internal primary seal for your DeckMaster Advanced Composite floating roof.



ABOUT HMT

HMT is the global leader in aboveground storage tank solutions. HMT's global team of engineers, project managers and field personnel can assist with common challenges including ways to reduce emissions, optimize tank capacity, reduce stranded inventory and engineer a tank system that exceeds safety standards and extends maintenance intervals.

HMT's full suite of tank products includes: External Seal Systems - Internal Seal Systems - Drain and Floating Suction Systems - Geodesic Domes - Skin and Pontoon IFRs - Full Contact IFRs - Emissions Reduction Devices

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