



Protecting your world, one tank at a time®

ALUMINATOR® HFC HONEYCOMB FULL CONTACT INTERNAL FLOATING ROOF

The Aluminator® HFC is the premier honeycomb full-contact AIFR on the market today.

Designed with the same care and precision engineering as the rest of the Aluminator® family of AIFRs, the Aluminator® HFC is ideal for full-contact applications in stored products compatible with aluminum.

The Aluminator® HFC has several advantages over other honeycomb AIFRs, including a superior structural system (which also aids in rapid, consistent installation) and minimal welds in the stored product, improving the long-term durability and integrity of the roof.



Key benefits:

The HMT Aluminator® HFC Internal Floating Roof utilizes an improved structural system and panel design concept to achieve several owner-operator benefits.

Improved panel integrity and durability — the unique panel forming method eliminates more than 98% of the welds in contact with the stored product, when compared with non-formed panels.

Improved strength and load distribution — the unique structural design of the Aluminator® HFC employs a system of continuous girders to secure the buoyant panels in place. These girders provide a heavy duty, continuous structural system that distributes reactions from dynamic loads across multiple panels, reducing stresses on panel welds and increasing life span.

Heavy-duty rim to handle perimeter loads — extruded structural aluminum rim and dual rim-to-girder connections create a robust rim connection that resists torque from seal drag.

Key design features:

Full-contact, complies with NFPA requirements for rim seal fire protection.

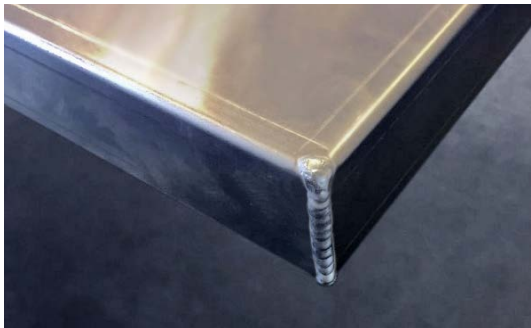
- Heavy-duty girder system provides continuous, bi-directional structural system for superior strength and load distribution.
- Heavy-duty extruded rim for exceptional strength at the IFR perimeter, where the greatest dynamic loads can occur.
- Each panel equipped with fully-threaded test port and perforated honeycomb internal core to allow for panel testing.
- Can be suspended or leg-supported
- Support connections anchor directly to the structure, not panel members, allowing load reactions to flow through the structure without imparting stress on panel welds
- Structural system fits together with little to no field-fabrication, resulting in rapid installation.
- Ease of installation without any support structure during installation

THE HMT ALUMINATOR® HFC DESIGN

HMT's Aluminator® HFC Honeycomb Full-contact Internal Floating Roof system is the strongest and best-in-class honeycomb AIFR. Here's why:

1. Panel design eliminates 98% of welds in contact with stored product

The Aluminator® HFC honeycomb panels are formed with no welds along the bottom edges, eliminating more than 98% of welds in contact with the stored product. By eliminating these welds through thoughtful design, the HFC panels are designed for excellent long-term integrity.



Improving integrity also allows panels to retain their structural strength, provided in part by their sandwich structure.

2. Continuous, bi-directional structural system

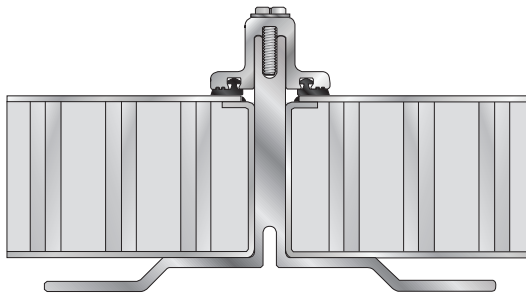
The Aluminator® HFC girder system allows for complete framing support of the roof independent of the panels. This system is superior in that it provides a continuous network of structural members completely across the tank. This system ensures excellent strength and efficient distribution of loads and reactions throughout the roof.

3. Rim channel design

The Aluminator® rim is extruded, not formed, providing superior strength at the perimeter of the roof, where it experiences the highest dynamic loads. The rim is designed with the strength to support both a primary mechanical shoe and secondary seal and can be used with any conventional type of seal system.

4. Panel clamping and system

The Aluminator® HFC structural system is designed with top and bottom flanges that clamp together, securely holding the honeycomb panels in place. This bolted, gasketed connection is designed with a predetermined, calibrated clamping depth to optimize panel retention without risk of overtightening.



5. Suspension capabilities

The Aluminator® HFC can be suspended from fixed roofs, including cone roofs and geodesic dome roofs. This option allows AIFR height adjustments to be completed from the outside of the tank.

6. Panels easy to replace during out-of-service maintenance

The Aluminator® HFC panels are relatively inexpensive and easy to replace if damaged or if layout alternations are needed. The structural system encapsulating the panels unbolts easily and panels can be swapped very quickly. Replacement panels come in half-widths to allow tank entry through a standard 24" manway.

ABOUT HMT

HMT is the global leader in aboveground storage tank solutions, providing solutions 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: Internal/External Seal Systems - Internal/External Floating Roofs - Drain and Floating Suction Systems - Aluminum Domes - Emissions Reduction Devices.

HMT's quality services include: Tank Repair & Maintenance - Floating Roof & Seal Repair/Replacement - Installation Services - Fabrication Services - Project Management/Turnkey - Inspection, Calibration, Verticality & Roundness Studies - New Tank Construction - Painting, Coating & Lining - Engineering Services.

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