

Matrix Applied Technologies Heavy Duty Aluminium Internal Floating Roof

IFR features:

- High section modulus main I-beam and sheeting clamp channel.
- Large diameter, high strength support legs at the rim and center deck.
- All center deck legs are connected to the IFR frame, not to pontoon ends. This eliminates the possibility of pontoon end cracking due to IFR flexing in service.
- All stainless steel fasteners.
- Unique, easy to assemble aluminium alloy interlocking system.
- Hybrid IFRs with all-stainless-steel wetted parts or full stainless steel IFRs available.
- Matrix Applied Technologies IFRs are designed to meet or exceed the requirements of API 650 Appendix H.
- Heavy Duty 1,000lb/ft² load capability.
- Roof suspended IFRs available for clear floor area and increased tank working volume.

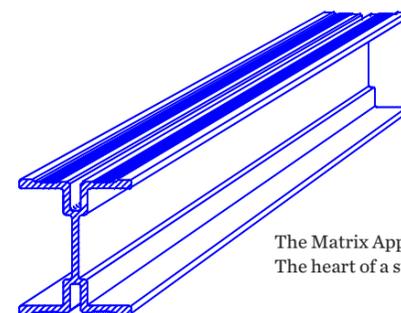
Rim seals:

Matrix Applied Technologies can provide a variety of rim seals to fit our IFR. These are:

Matrix Applied Technologies IFR Shoe Seal
Matrix Applied Technologies PE (polyethylene) Wiper Seal

Waffle type urethane single wiper seal and/or secondary wiper seals are available.

Shoe seals can seal a full range of tank products including gasoline, benzene, MTBE, ethanol, toluene, xylene, paraxylene, MEK, sulfolane, reduced crude etc.



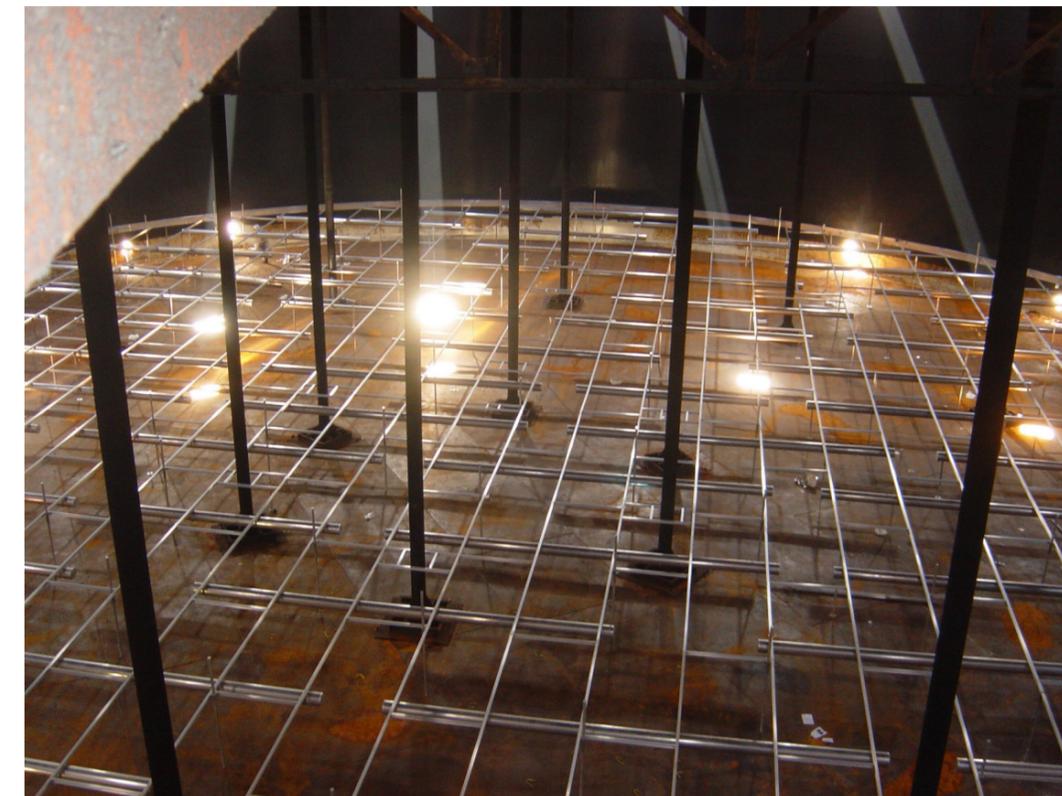
The Matrix Applied Technologies I-beam.
The heart of a superior design IFR.

Matrix Applied Technologies Heavy Duty Aluminium Internal Floating Roof

The Matrix Applied Technologies heavy duty aluminium internal floating roof is the result of over 20 years practical tank experience by in-house engineers in the installation, maintenance and design of IFRs.

Our aim is to provide an IFR to the oil industry that is extremely durable and overcomes the many design problems that exist in other well-known brand IFRs.

These days when the concern is “Whole of Life Cost,” we believe the quality engineered Matrix Applied Technologies heavy duty IFR offers tank owners the best possible value for money.



All IFR components are designed to pass through a 24” dia. manway and are pre-cut for easy, on-site assembly. IFRs are usually shipped in either 20 ft. or 40 ft. containers.

Move to a higher standardSM

Matrix Applied Technologies manufactures the following quality products for the aboveground storage tank industry:

- Aluminium Geodesic FlowDome™ Roofs
- Aluminium Pontoon Internal Floating Roofs
- Stainless Steel Pontoon Floating Roofs
- Aluminium Full Contact IFRs
- Floating Roof Seal Systems
- Specialized Floating Suction Lines
- SwingMaster Swing Joints
- Floating Roof Drain Systems

Matrix Applied Technologies CAN HELP SOLVE YOUR TANK DESIGN and MAINTENANCE PROBLEMS

Both the Matrix Applied Technologies Heavy Duty Pontoon Aluminium Internal Floating Roof (IFR) and Full Contact fully welded Honeycomb panel IFR have been designed for long, maintenance free service.

Pontoon IFRs are available as all aluminium, all stainless steel and as a combination (hybrid) of both these two options.

IFRs can be cable or chain suspended from steel fixed roofs or from Matrix Applied Technologies geodesic dome roofs.



Move to a higher standardSM

The Matrix Applied Technologies heavy duty IFR has many durable features designed to provide indefinite maintenance free operation of the main structural elements.

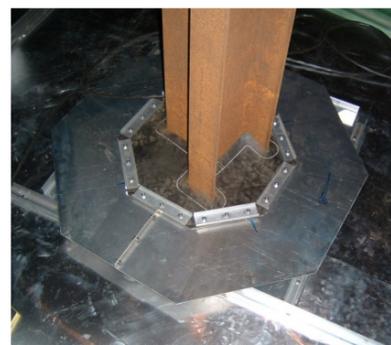
The Matrix Applied Technologies heavy duty IFR is ideally suited to service in earthquake prone regions or in those tanks subject to sloshing and/or turbulence due to high fill rates or mixers.



I-beam to rim bolted connection is strong and provides a continuous, flat surface for sheet clamping.



Matrix Applied Technologies rim vents are available for tanks subject to frequent nitrogen pigging. Pop-pigging vents are also available to relieve excess gas beneath the IFR main deck when pigging line venting occurs. Special pigging diffusers are available. Landing legs are not connected to pontoons. Pontoons are connected to the main frame and are not affected by IFR flexing.



Column seal assembly (above) and standard 600mm deck manway (below). View from underside.



Optional self-draining multi-axis stainless steel swivel leg pads for cone-down and painted floors are available. PTFE inserts are provided as standard.



310mm deep extruded channel rim is strong enough for the Matrix Applied Technologies IFR shoe seal to be connected to it without additional bracing.



Heavy duty IFR fully assembled and installed.



Over thirty years of excellence.

Safety. Integrity. Positive relationships. Stewardship. Community involvement. Delivering the best. These core values have forged our reputation for excellence.

Founded in 1984, Matrix Applied Technologies is a subsidiary of Matrix Service Company (Nasdaq: MTRX), a top-tier engineering, construction and maintenance company that, through our family of brands, designs, builds and maintains infrastructure critical to North America's energy, power and industrial markets.

Matrix Applied Technologies designs, develops and markets precision engineered, premier products and technologies for the energy and industrial markets. The team combines innovative engineering and design with cutting-edge manufacturing processes to bring reliable, innovative and cost-effective products to customers worldwide.



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Heavy Duty Aluminium IFR