GERIJ DURABLE

GERIJ
FOUNDED IN 2003

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APR PROJECTS
STRUCTURAL SPECIALISTS

MAX PROJECTS
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MAX PROJECTS
STORAGE TANK SPECIALISTS


MAXWELL
CONTINENTAL TANKSERV

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The story of Max Steineke his Well no.7 …

Max Steineke was a prominent American petroleum geologist.

- His efforts, and persistence through repeated setbacks, led to the first discovery of oil in commercial quantities in Saudi Arabia…
- In December 1936, a "deep test", No. 7, was begun at the urging of Steineke, who wished to test the deeper porous limestone "Arab Zone" underlying impervious anhydrite…
- In early 1938, Steineke was called back to San Francisco to "pull the plug" on Saudi Arabian exploration…
- Steineke convinced his managers to at least wait for the results from Dammam #7, which was still drilling at a slow pace…
- During the first week of March 1938, at a depth of 1440 meters, Dammam No. 7 started producing at commercial quantities
- What Steineke had discovered was the huge Abqaiq field, and King Abdulaziz named Well No. 7 the Prosperity Well.

Max Steineke

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Company

Founded in 2003

Continues growing global presence

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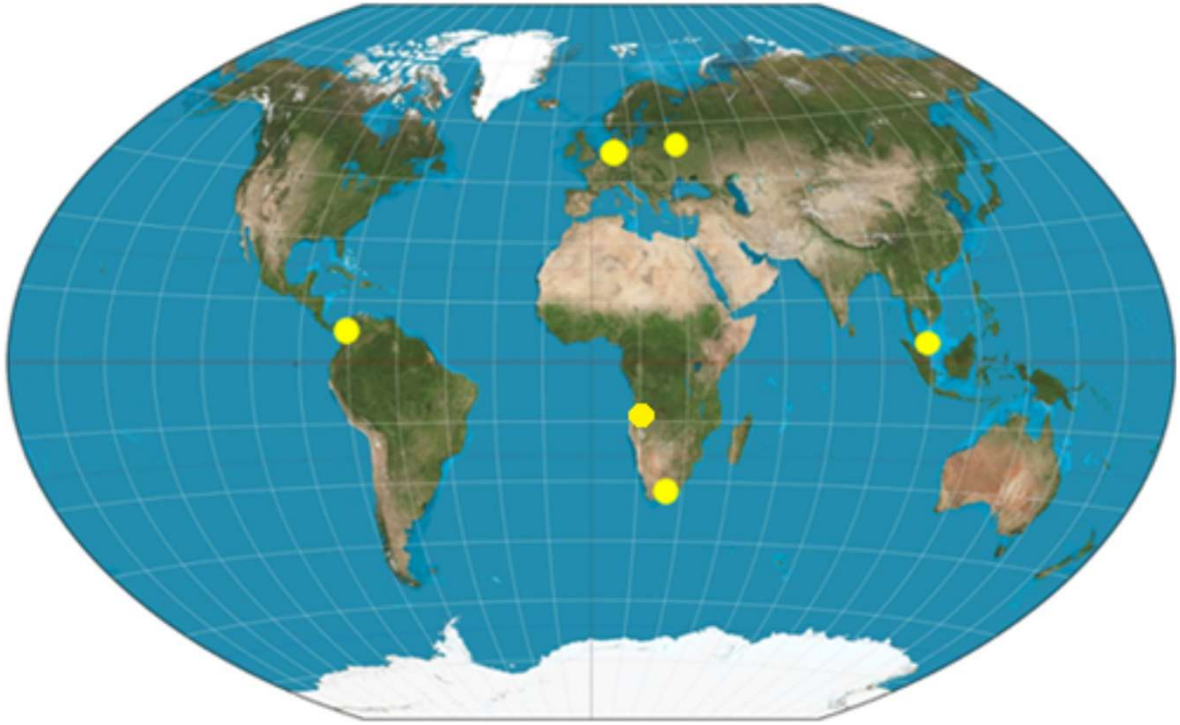
Offices

Head Office
The Netherlands

Representative Offices
Colombia
Singapore
Kazkshtan
Gabon
South Africa



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Factory

The Netherlands
Turkey (free zone)

(Opening end of 2022)
Singapore
India

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Maxwell Continental Tank Serv Engineering

”The Services Provider” you are looking for…

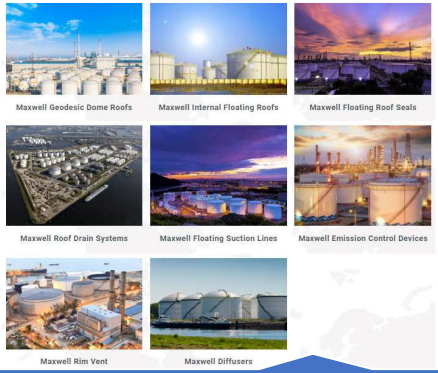
- Services
- Products

Engineering Service

Inspection Service

Technical Advising

Installation Service



Services

Products

VCA** certified

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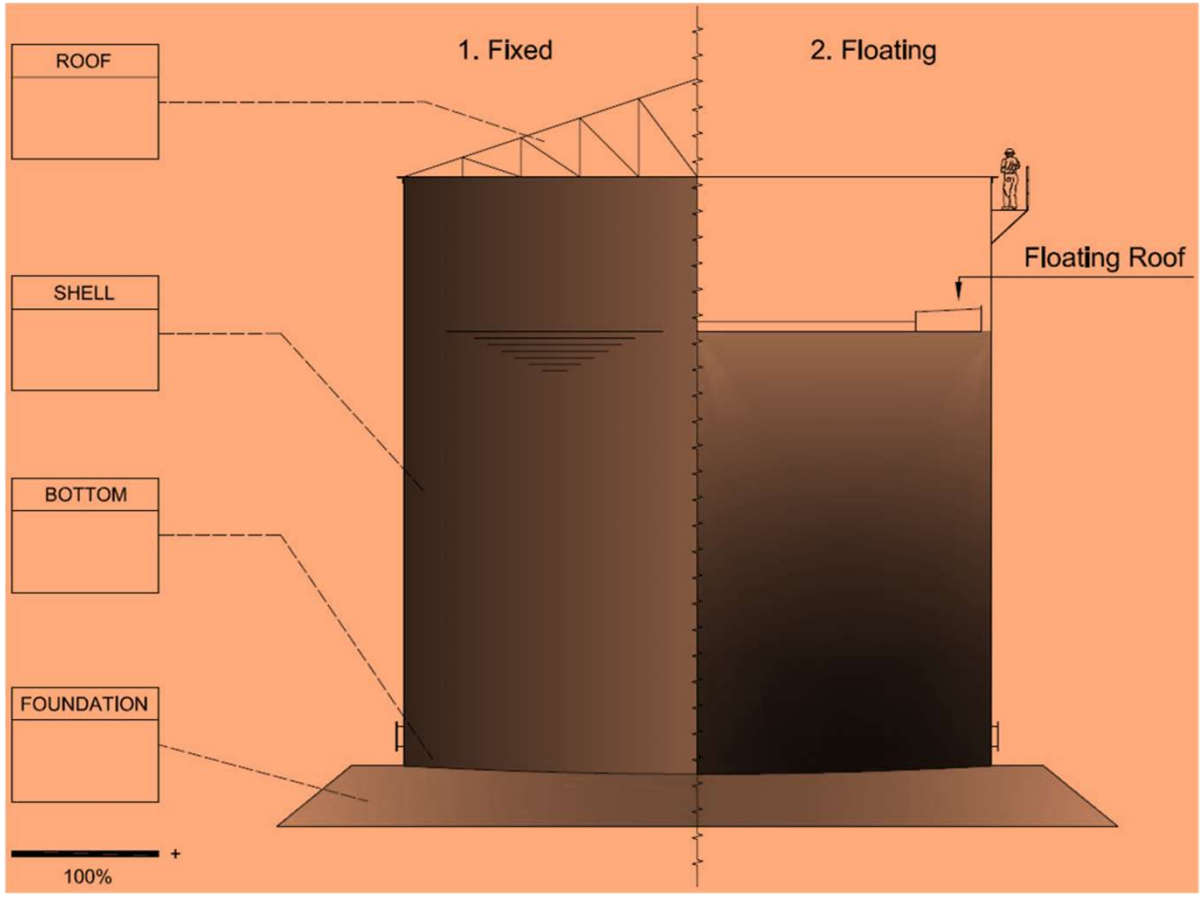
Services

- Based on knowledge



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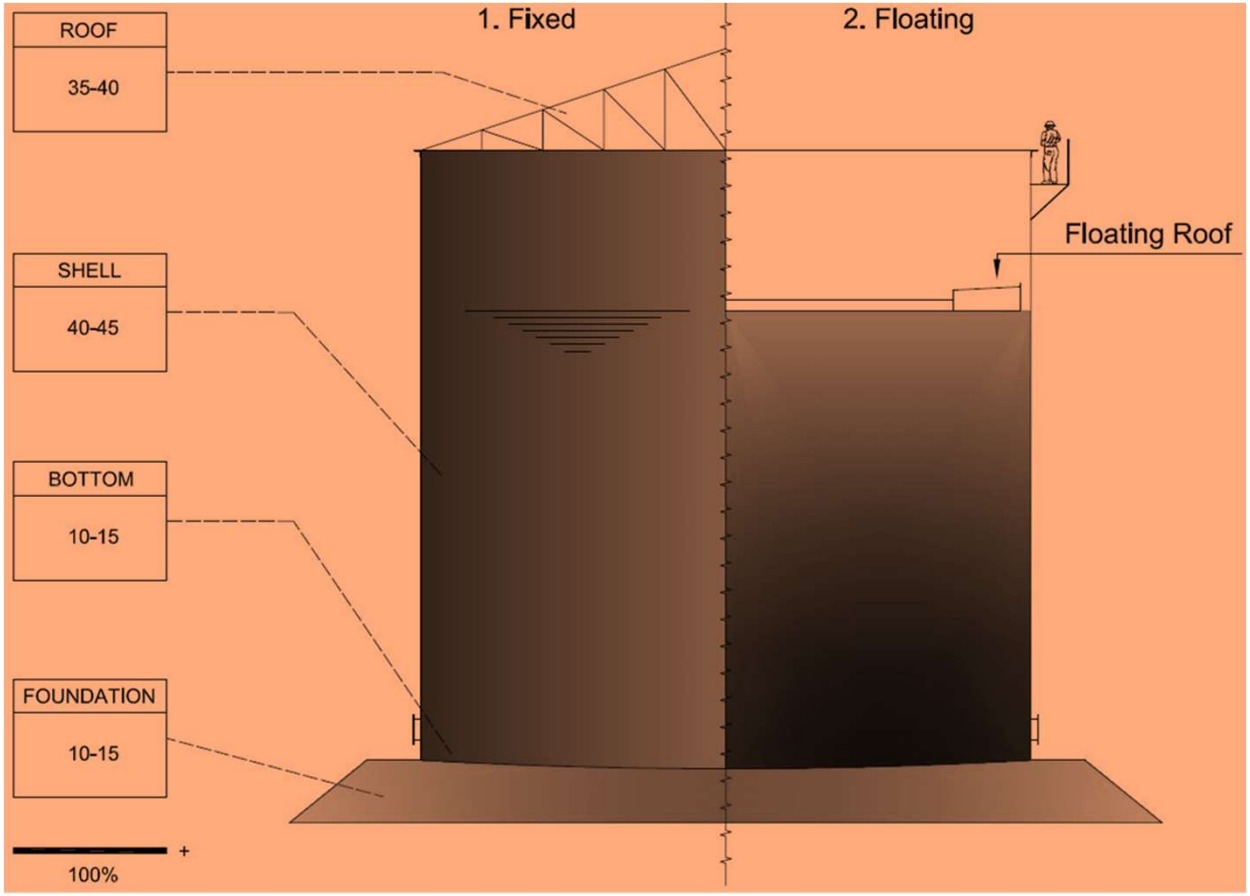
Services

- Based on knowledge



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Services

- Based on knowledge

Tank			ID = 24,384m / 80'	
Roof	35%	40%	€ 217.000,00	€ 250.000,00
Shell	40%	45%	€ 250.000,00	€ 282.000,00
Bottom	10%	15%	€ 62.000,00	€ 93.000,00
Foundation	10%	15%	€ 62.000,00	€ 93.000,00

Tank			ID = 43.891m / 144'	
Roof	35%	40%	€ 706.000,00	€ 807.000,00
Shell	40%	45%	€ 807.000,00	€ 908.000,00
Bottom	10%	15%	€ 201.000,00	€ 301.500,00
Foundation	10%	15%	€ 201.000,00	€ 301.500,00

Tank			ID = 76.200m / 250'	
Roof	35%	40%	€ 2.128.000,00	€ 2.433.000,00
Shell	40%	45%	€ 2.433.000,00	€ 2.738.000,00
Bottom	10%	15%	€ 608.000,00	€ 912.000,00
Foundation	10%	15%	€ 608.000,00	€ 912.000,00

Tank			ID = 30,485m / 100'	
Roof	35%	40%	€ 340.000,00	€ 390.000,00
Shell	40%	45%	€ 390.000,00	€ 439.000,00
Bottom	10%	15%	€ 97.000,00	€ 145.500,00
Foundation	10%	15%	€ 97.000,00	€ 145.500,00

Tank			ID = 48.768m / 160'	
Roof	35%	40%	€ 871.000,00	€ 997.000,00
Shell	40%	45%	€ 997.000,00	€ 1.122.000,00
Bottom	10%	15%	€ 249.000,00	€ 373.500,00
Foundation	10%	15%	€ 249.000,00	€ 373.500,00

Tank			ID = 83.820m / 275'	
Roof	35%	40%	€ 2.575.000,00	€ 2.943.000,00
Shell	40%	45%	€ 2.943.000,00	€ 3.311.000,00
Bottom	10%	15%	€ 735.000,00	€ 1.102.500,00
Foundation	10%	15%	€ 735.000,00	€ 1.102.500,00

Tank			ID = 32.004m / 105'	
Roof	35%	40%	€ 375.000,00	€ 430.000,00
Shell	40%	45%	€ 430.000,00	€ 484.000,00
Bottom	10%	15%	€ 107.000,00	€ 160.500,00
Foundation	10%	15%	€ 107.000,00	€ 160.500,00

Tank			ID = 54.864m / 180'	
Roof	35%	40%	€ 1.103.000,00	€ 1.261.000,00
Shell	40%	45%	€ 1.261.000,00	€ 1.419.000,00
Bottom	10%	15%	€ 315.000,00	€ 472.500,00
Foundation	10%	15%	€ 315.000,00	€ 472.500,00

Tank			ID = 88.392m / 290'	
Roof	35%	40%	€ 2.863.000,00	€ 3.273.000,00
Shell	40%	45%	€ 3.273.000,00	€ 3.683.000,00
Bottom	10%	15%	€ 818.000,00	€ 1.227.000,00
Foundation	10%	15%	€ 818.000,00	€ 1.227.000,00

Tank			ID = 35.966m / 118'	
Roof	35%	40%	€ 474.000,00	€ 542.000,00
Shell	40%	45%	€ 542.000,00	€ 610.000,00
Bottom	10%	15%	€ 135.000,00	€ 202.500,00
Foundation	10%	15%	€ 135.000,00	€ 202.500,00

Tank			ID = 60.960m / 200'	
Roof	35%	40%	€ 1.362.000,00	€ 1.557.000,00
Shell	40%	45%	€ 1.557.000,00	€ 1.752.000,00
Bottom	10%	15%	€ 389.000,00	€ 583.500,00
Foundation	10%	15%	€ 389.000,00	€ 583.500,00

LME Price reference 2020

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Design

Policies (law)
- EC-CODES
- PGS 29

EUROCODES
BUILDING THE FUTURE

Int./Reg. Standard (quality)
- ISO (International)
- CEN – EN 14015 (Europe)

ISO

EN

Nat. Standard
- ANSI (USA)
- BS 2654 (England)
- DIN 4119 Part 1,2 (Germany)
- Codap / Codres (French)

ANSI
American National Standards Institute

BSi

DIN 4119

CODAP

NEN

Guide Lines (Non-Mandatory)
- API 620 and API 650 (USA)
- NFPA-11 (USA)

energy API

NFPA

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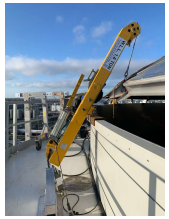
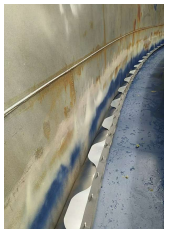
Products

Aluminium Geodesic Dome Roofs
Internal Floating Roofs
External Floating Roofs
Floating Roof Rim Seals
Rim seal Accessories
Drain Systems
Floating Suction & Oil Skimmers
Gauge Pole Pipe & Leg Seals
Rim Vents
Tank Inlet Diffusers





"ADVANCED ENGINEERED TANK TECHNOLOGIES"

MAXWELL products

001-DFRT V2203

DOMED FLOATING ROOF TANK
Alu Geodesic Dome Roofs
Alu Flat Cover
- *Wastewater Treatment Plant*
- *Oil Separating Basin*

INTERNAL FLOATING ROOFS (IFR)

Full Contact	Non-Contact
• MFC BOX	• MSP-Aluminium
• *MFC HEX*	• *MSP-Hybrid*
• *MFC GRP*	• *MSP-Stainless Steel*
• *MFC Open Deck*	

FLOATING ROOF RIM SEALS

EFR

Mechanical Shoe Seal
- MRS-1 Primary Scissor Shoe Seal
- MRS-1 Primary Heavy-Duty Mechanical Shoe Seal
- MRS-1 Shell Int. Petr. Mechanical Shoe Seal
- MRS-1 Horton Hanger Weight Shoe Seal
- MRS-1 Wiggins - Safety Shoe Seal
- MRS-12 Secondary Shoe-Mounted Seal
- MRS-3 Primary Spring Plate Shoe Seal

Liquid-Mounted Seal
- MRS-6 Primary Liquid Filled Tube Seal
- MRS-7 Primary Foam Filled Seal

Vapor-Mounted Seal
- MRS-20P Primary Compression Plate Seal
- MRS-20S Secondary Compression Plate Seal
- MRS-25 Weather Shield

IFR

Mechanical-Shoe Seal
- MRS-1 Primary Mechanical Shoe Seal
- MRS-3 Primary Spring Plate Shoe Seal

Liquid-Mounted Seal
- MRS-7 Primary Foam Filled Seal

Vapor-Mounted Seal
- MRS-60 Primary Wiper Seal
- MRS-70 Secondary Wiper Seal

RIM SEAL ACCESSORIES
Floating Roof centring Positioner Bumpers
Integral Foam Dam
Wax Scrapers
- Independent-Mounted
- Integral-Mounted
- Shoe-Mounted

INLET DIFFUSERS
Liquid Inlet Diffusers
Gas Inlet Diffusers

FLOATING ROOF DRAIN SYSTEMS
Articulated Pipe Drain Systems
- Pro-Drain Flexible Pivot Hose Joints (Roof Drain Systems)
- Swivel Joints (Pipe Drain Systems)
- Swing Joints (Pipe Drain Systems)

Roof Sump Drain Valves
- Non-Return Roof Sump Valve

Flexible Drain Hose Systems
- Composite Drain Hose
- Rubber Drain Hose
- Drain Hose Add-On Parts - Drain Hose Leg Protector Seat
- Drain Hose Add-On Parts - Drain Hose Suspender

Spill Stopper

FLOATING SUCTIONS AND OIL SKIMMER
Floating Suction Systems
- Pro-Drain Pivot Hose Joints
- Swivel Joints
- Swing Joints

Oil Skimmer Systems
- Pro-Drain Pivot Hose Joints
- Swivel Joints
- Swing Joints

FLOATING SUCTION AND OIL SKIMMER ACCESSORIES
Floating Sampling Lines
- Pro-Drain Pivot Hose Joints (Floating Sampling Lines)
- Swivel Joints (Floating Sampling Lines)
- Swing Joints (Floating Sampling Lines)

COMMON EMISSIONS CONTROL DEVICES
Gauge Pole Pipe Seal
- Gauge Pole Well Seal
- Gauge Pole Pipe Cover

Roof Leg Support Seals
- Leg Tube Transition Seal
- Leg Pin Hole Seal
- Leg Sock Seal

COMMON EMISSIONS CONTROL DEVICES ACCESSORIES
Roof Rim Vents Systems
- PRV Rim Vent
- PVRV Rim Vent

PONTOON FLOATATION RECOVERY DEVICES
Pontoon
- Inflatable Pontoon Balloon

COMMON ACCESSORIES
Retractable Earthing Reel System
Separation batching pig

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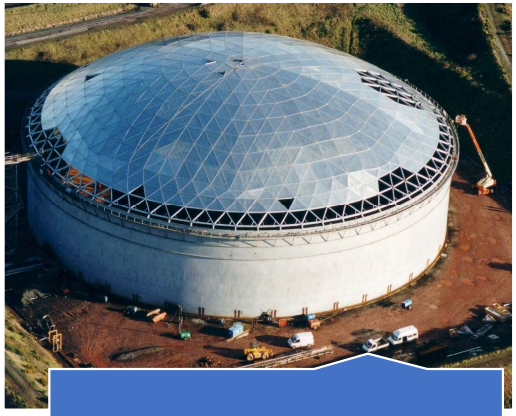
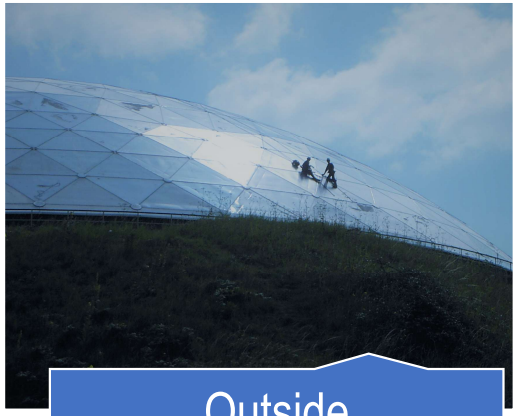
Domed Floating Roof Tank

- Alu Geodesic Dome Roofs

Inside



Outside



Outside
Completion

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Alu Geodesic Dome Roofs # Features

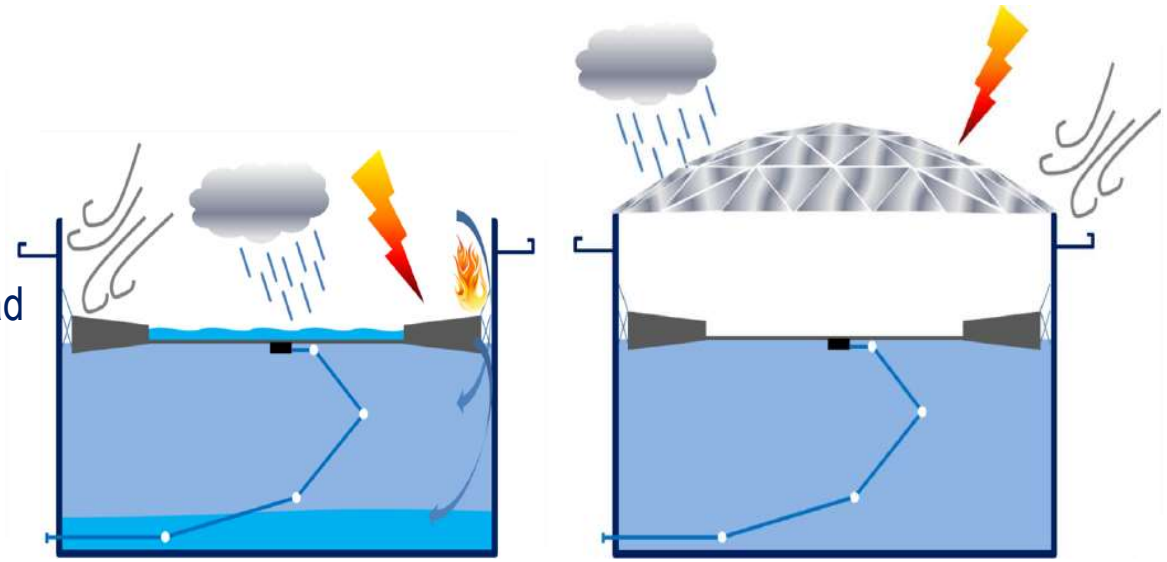
Fire Risks
- reduction lightening impact

VOC emission control
- reduction wind turbulence

Prevents buoyance issues
- reduction snow / (rain)water load

OPEX cost reduction
- corrosion prevention

Prevents product contamination
- water ingress



(AST) Above ground Storage Tank

(DFRT) Domed Floating Roof Tank

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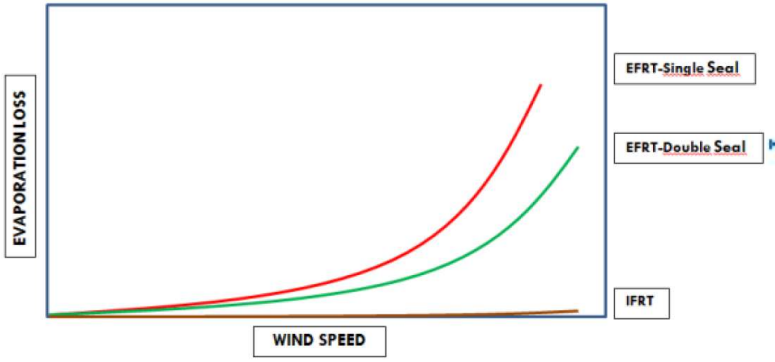
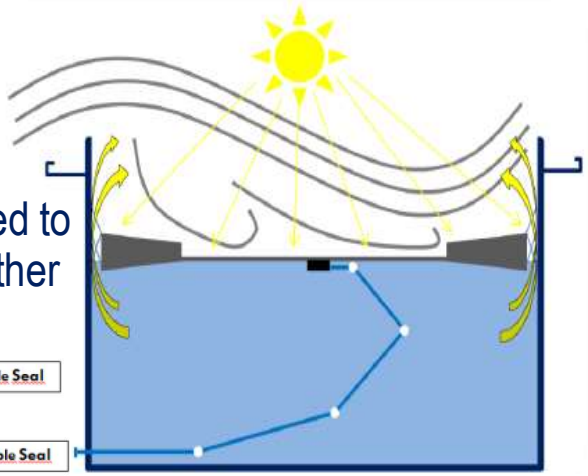
Alu Geodesic Dome Roofs # Features

Sun (heat) radiation
- radiation elimination

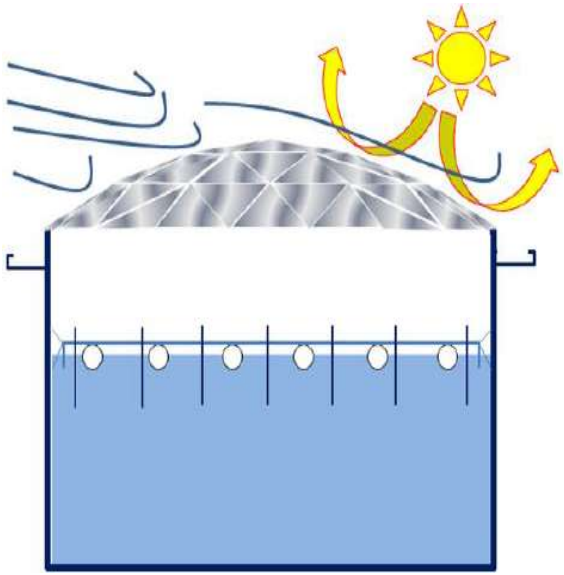
Negative wind / under pressure
- eliminates emission losses

Loss of tank working capacity
- secondary rim seal not needed to prevent rim from wind and weather





(AST) Above ground Storage Tank



(DFRT) Domed Floating Roof Tank

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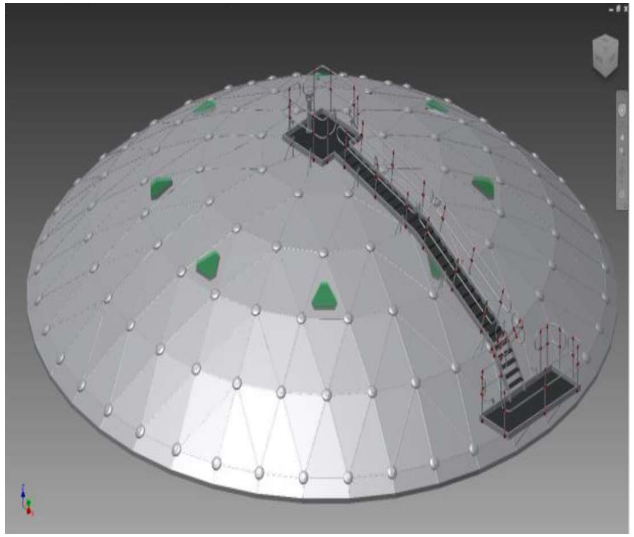
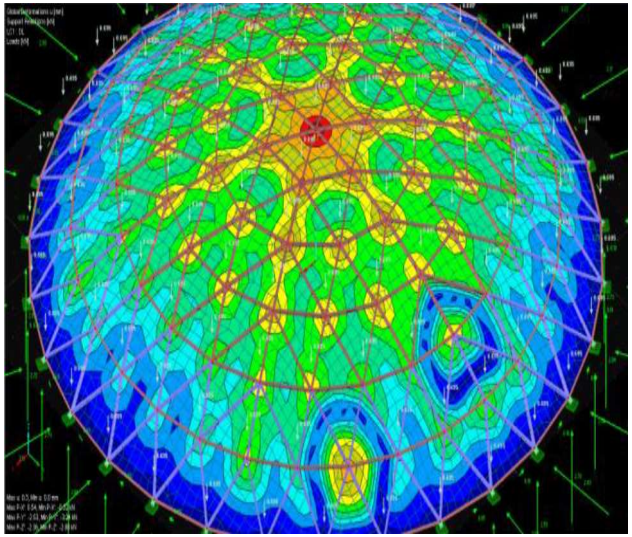
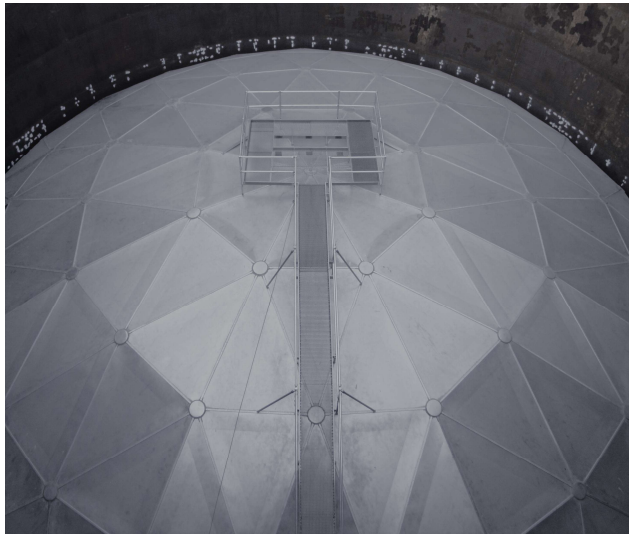
Alu Geodesic Dome Roofs # ADR Design







Alu Geodesic Dome Roofs

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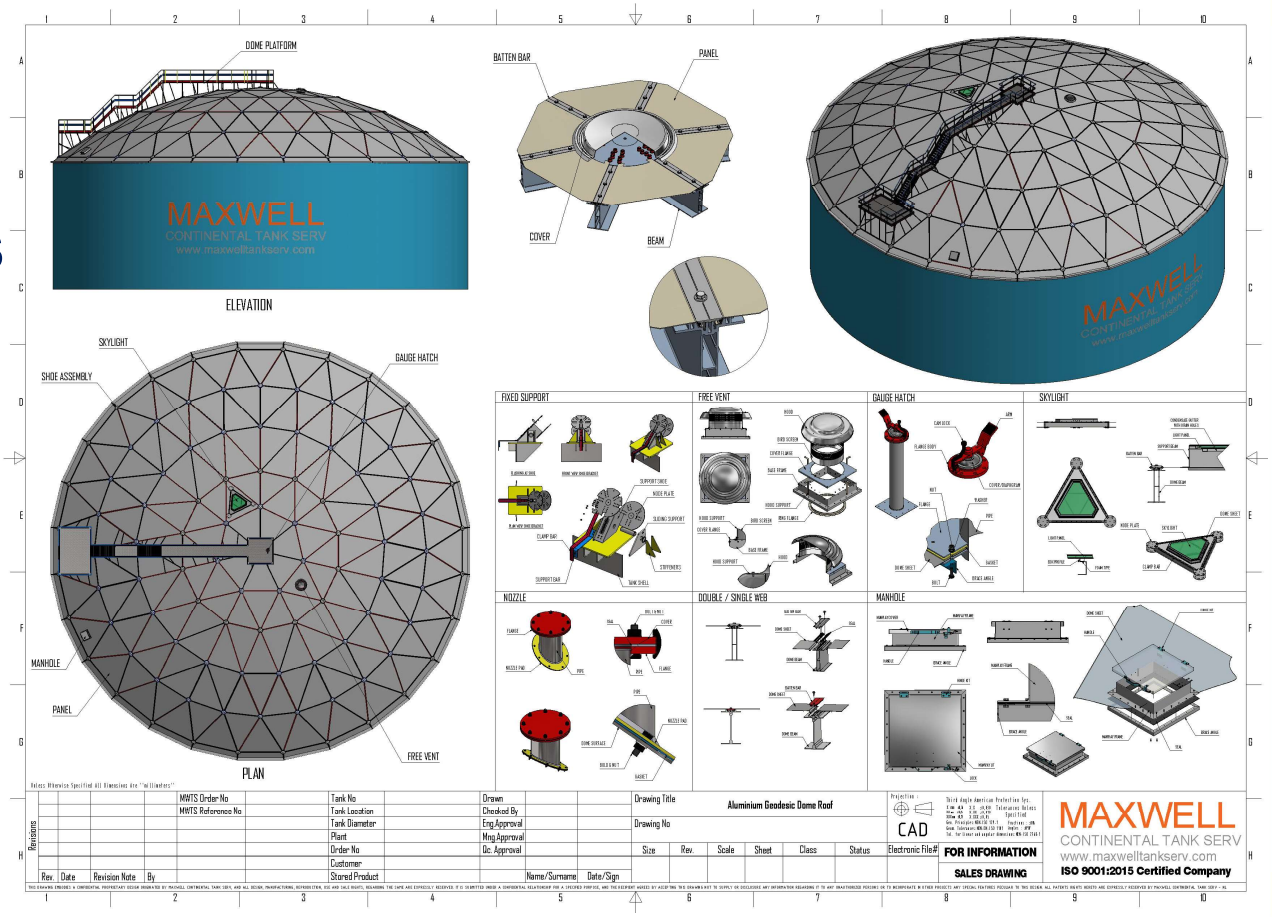
ADR Design

Own design
Low maintenance costs
Service life 50 years



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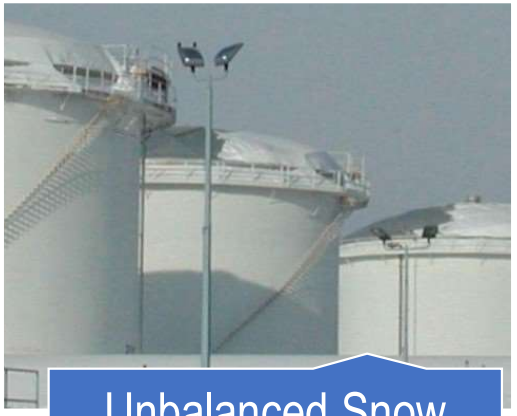
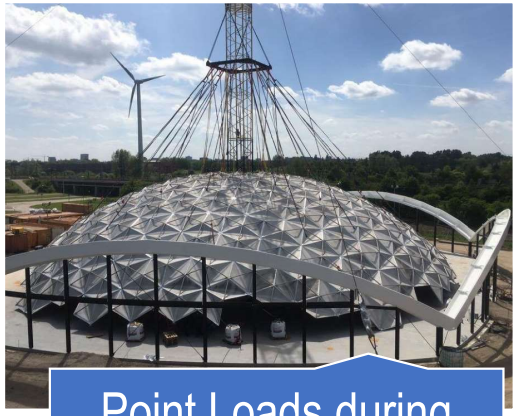
Alu Geo Dome Roofs # Design Loads

- Dead Loads (DL)
- Min. Live Loads (LL): 0.96 kPa (20 psf) @ ASCE 7: 0.72 kPa (15 psf)
- Wind load (WL) : 120 mph (53.6 m/s) 3 second gust (Basic Wind 27 m/s)
- Snow Load (SL)
- Seismic Load (EQ)
- Friction @ coefficient 0.1
- Load for Accessories



Unbalanced Snow Load



Point Loads during Lifting

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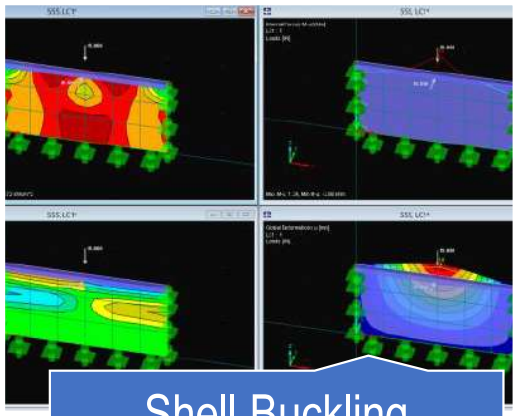
Alu Geo Dome Roofs # Design Criteria

- Sliding supports (Integral Tension Ring) or fixed supports
- Temperatures: Min. / Max. design + operating
- Level alarms adapted to (new) tank configuration
- Penetrations
- Flow rates: Inlet + Outlet
- Load forces on tank
- Tank shape (rejection)
- Shell Buckling Calculation

Level Alarms and Penetrations



Shell Buckling Calculation

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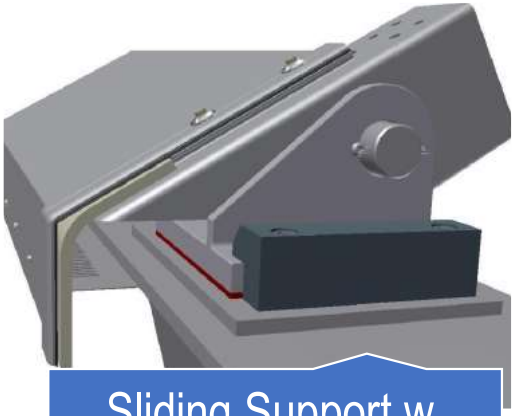
Alu Geo Dome Roofs # Support Anchors

- Sliding supports (Integral Tension Ring)

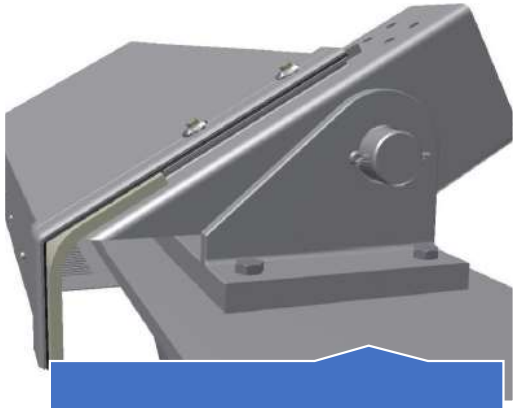
or

- Fixed supports

Sliding



Sliding Support w. Integral Tension Ring



Fixed Support

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Alu Geo Dome Roofs # Standards

- 2015 Aluminum Design Manual
- AISC Design Guide 27 Structural SS 2013
- ASTM B209-10 Alu and Alu-Alloy Sheet and Plate
- ASTM B221-13 Alu and Alu-Alloy Extrusions
- ASTM F593-13 SS Bolting hardware
- ASTM F594-98 SS Nuts
- ASCE 7-10 Min. Design Loads Buildings
- CE Marking and Execution class:

"Not Applicable, since structure is manufactured separately on a custom made design in a non-series process where it is assembled at site"

Dome Finite Analysis Programmed

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Alu Geodesic Dome Roofs # Installation

Alu Geodesic Dome Roofs

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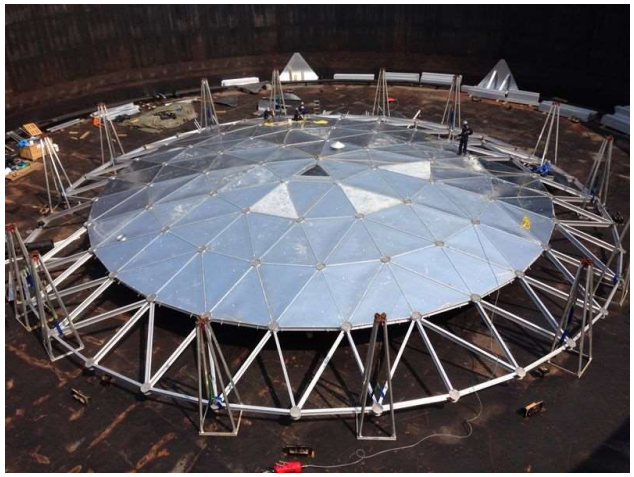
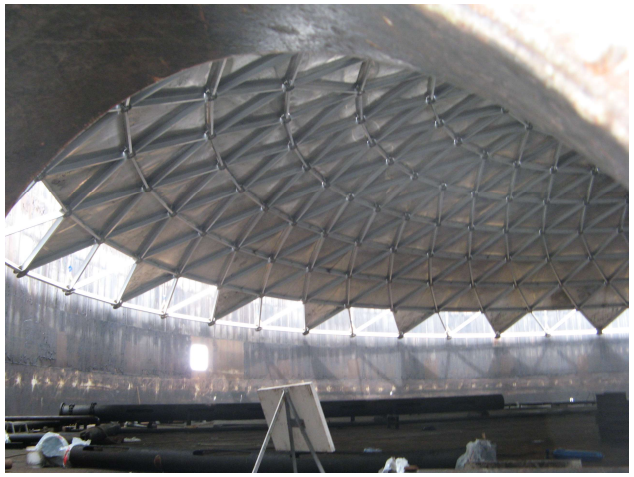
Alu Geodesic Dome Roofs # Installation





Alu Geodesic Dome Roofs

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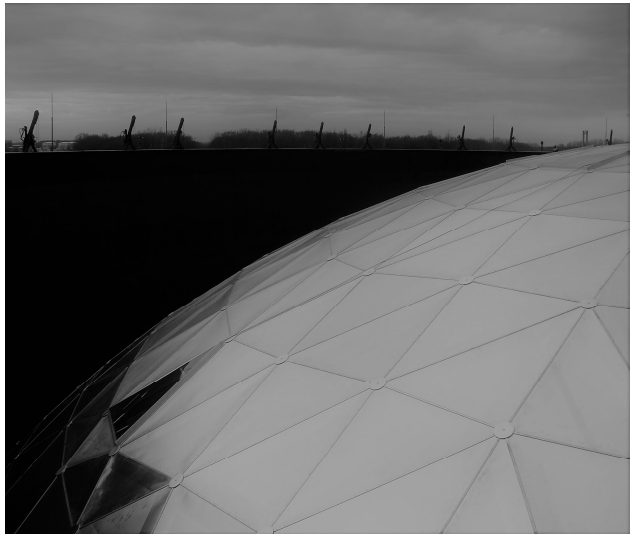
Alu Geodesic Dome Roofs # Installation



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Alu Geodesic Dome Roofs # Installation

Alu Geodesic Dome Roofs

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Internal Floating Roofs

- Full Contact IFR
- Non-Contact Pontoon IFR

Top View IFR

Full Contact IFR

Non-Contact IFR

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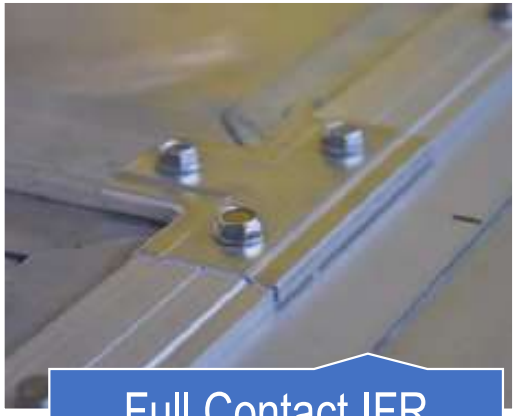
Full Contact - Internal Floating Roofs

- No vapour space, means no room for saturation
- Results in 97-99,9% emission reduction over roof surface
- Seam covers to reduce seam emission

Full Contact IFR
Top View



Full Contact IFR
Seam Covers

Full Contact IFR
Installation

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Non Contact - Internal Floating Roofs

- Cost effective Initial Investment
- Modular pontoon design
- Prevents product contamination

Pontoon IFR
Top view

Pontoon IFR
Bottom view

Modular Assembly

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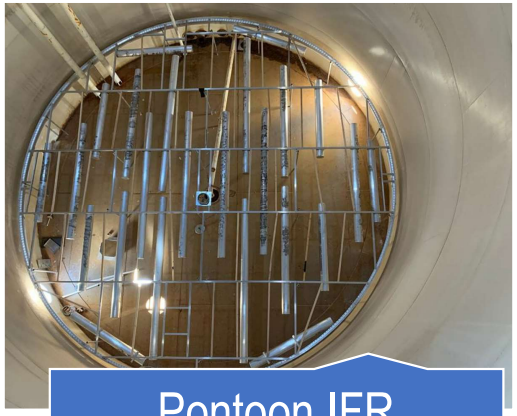
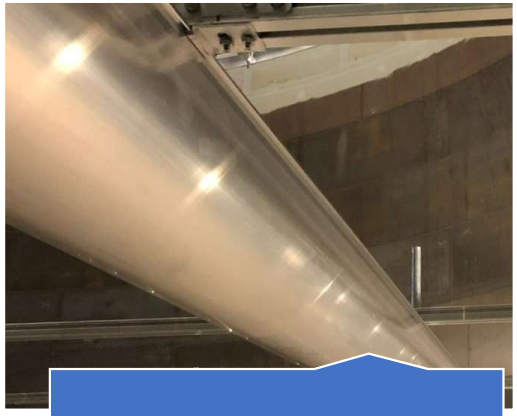
Skin & Pontoon Internal Floating Roof

- For Light-duty (A-500) and Heavy-duty (A-1000) applications
- Hybrid
- SS



Pontoon IFR
Top view

Pontoon IFR
Deck Sheeting



Modular Assembly

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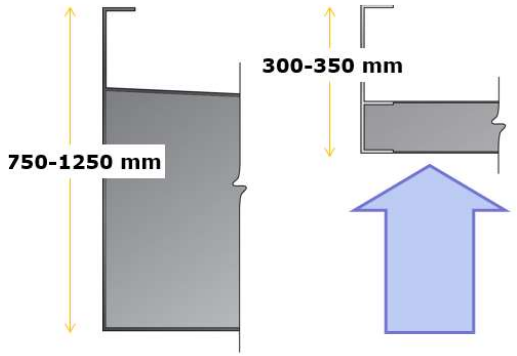
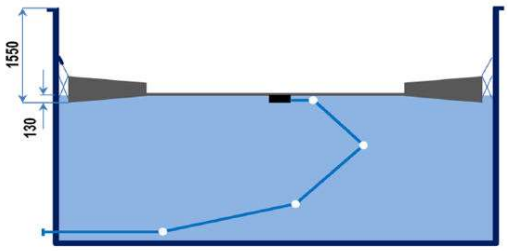
Internal Floating Roofs # Features

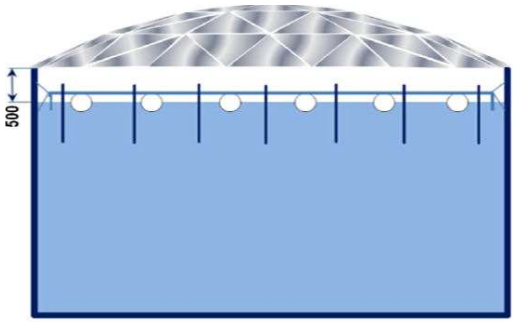
- Low Profile
- Recapture of increased working capacity



Capacity Capture Internal Floating Roof



External Floating Roof



Dome Covered Floating Roof

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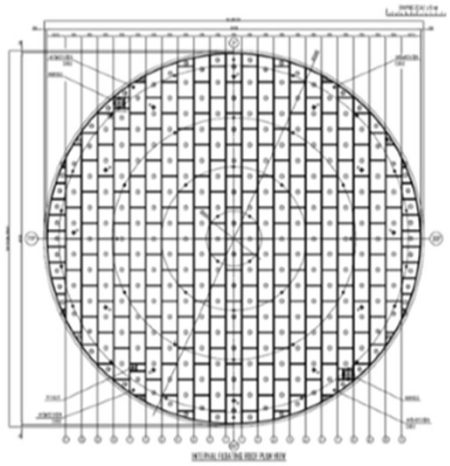
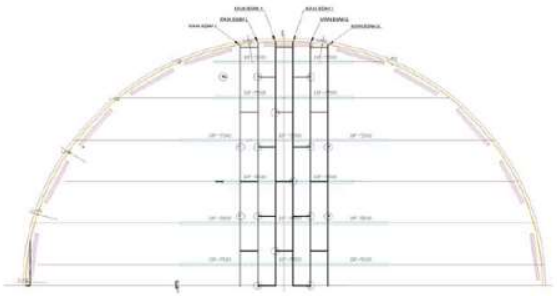
Internal Floating Roofs # Design



APPURTENANCES FIELD FIT

- DECK DRAIN
- MANWAY
- COLUMN WELL
- PRESSURE / VACUUM VENT
- GAUGE FUNNEL



Internal Floating Roofs

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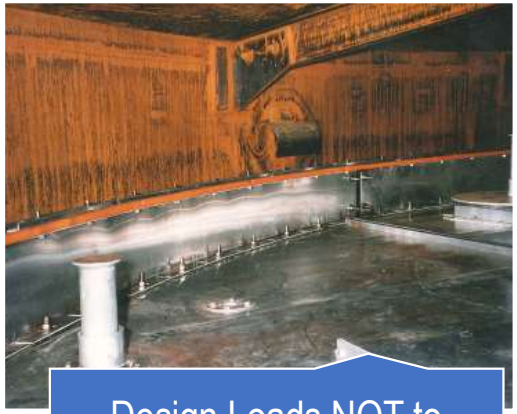
Internal Floating Roofs # Design Loads

- Minimum buoyancy 200% in liquid w. specific gravity of 0.7
- Dead Load (DL) ≥ 5 psf (or 500 lb. concentrated load)
- Friction force exerted by perimeter seals
- Load for Accessories

Average Life Load of FC is 2.5x average



Design Loads NOT to handle internal obstructions

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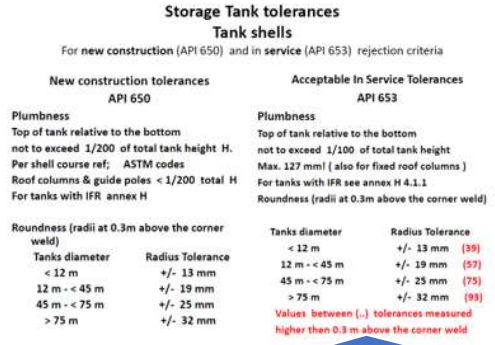
Internal Floating Roofs # Design Criteria

- Materials used to be suitable for prolonged immersion (> 15 years)
- Center breather vent to close 150mm above the fixed support height
- Level alarms adapted to (new) tank configuration
- Flow rates: Inlet + Outlet
- Max. filling velocity 1 m/s
- Inlet pipe/diffuser
- Temperatures: Min. / Max.
- Penetrations
- Tank shape (rejection)

Materials used to be suitable for prolonged immersion



Storage Tank tolerances
Tank shells
For **new construction** (API 650) and in **service** (API 653) rejection criteria

New construction tolerances API 650

Plumbness
Top of tank relative to the bottom not to exceed 1/200 of total tank height H.
Per shell course ref; ASTM codes
Roof columns & guide poles < 1/200 total H
For tanks with IFR annex H

Roundness (radii at 0.3m above the corner weld)

Tanks diameter	Radius Tolerance
< 12 m	+/- 13 mm
12 m - < 45 m	+/- 19 mm
45 m - < 75 m	+/- 25 mm
> 75 m	+/- 32 mm

Acceptable In Service Tolerances API 653

Plumbness
Top of tank relative to the bottom not to exceed 1/100 of total tank height
Max. 127 mm! (also for fixed roof columns)
For tanks with IFR see annex H 4.1.1
Roundness (radii at 0.3m above the corner weld)

Tanks diameter	Radius Tolerance	
< 12 m	+/- 13 mm	(39)
12 m - < 45 m	+/- 19 mm	(57)
45 m - < 75 m	+/- 25 mm	(75)
> 75 m	+/- 32 mm	(93)

Values between (..) tolerances measured higher then 0.3 m above the corner weld

Tank Shell Shape (rejection criteria)

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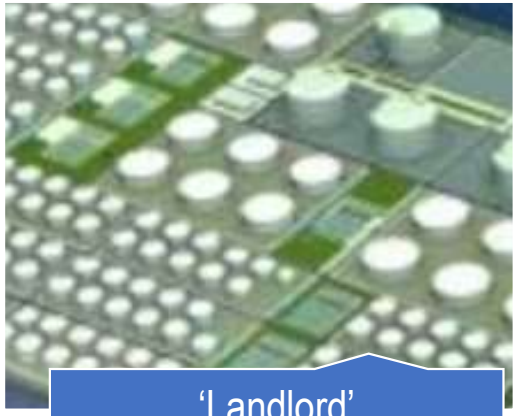
Internal Floating Roofs # Standards

- Fire Resistance per NFPA® 11
- Rim seal fabrics flame retardant in accordance to DIN 22100
- Hardware min. stainless steel

Design from law to guide lines

'Owner'
Needs the best



'Landlord'
Needs a permit

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Internal Floating Roofs # Installation

Internal Floating Roofs

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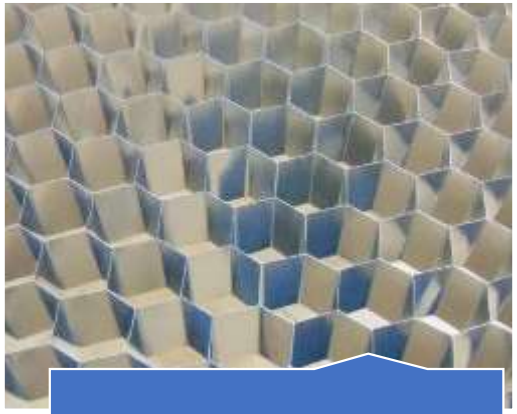
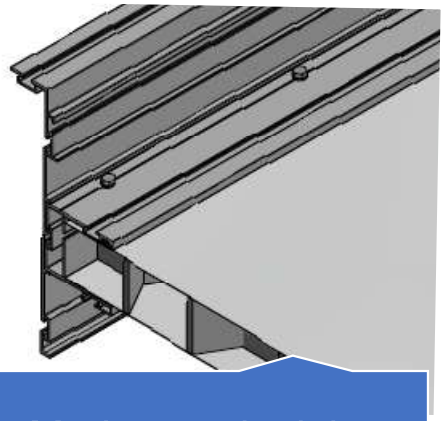
FC Internal Floating Roofs # MFC-HEX

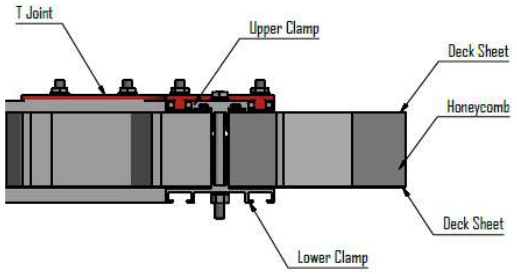
- Strong sandwich panels with honeycombed core
- Seal welded and pressure-tested at fabrication facility
- Module joints are double side clamped design



Inside Core



Module to rim joint



Double side clamp design

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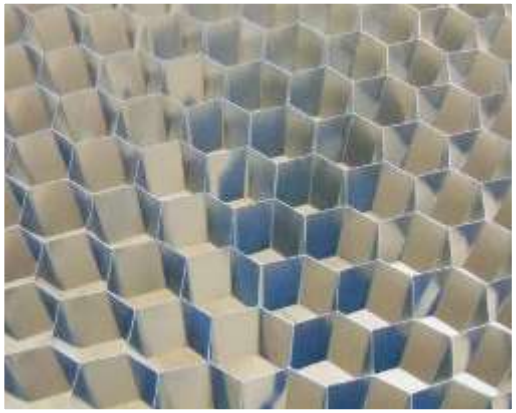
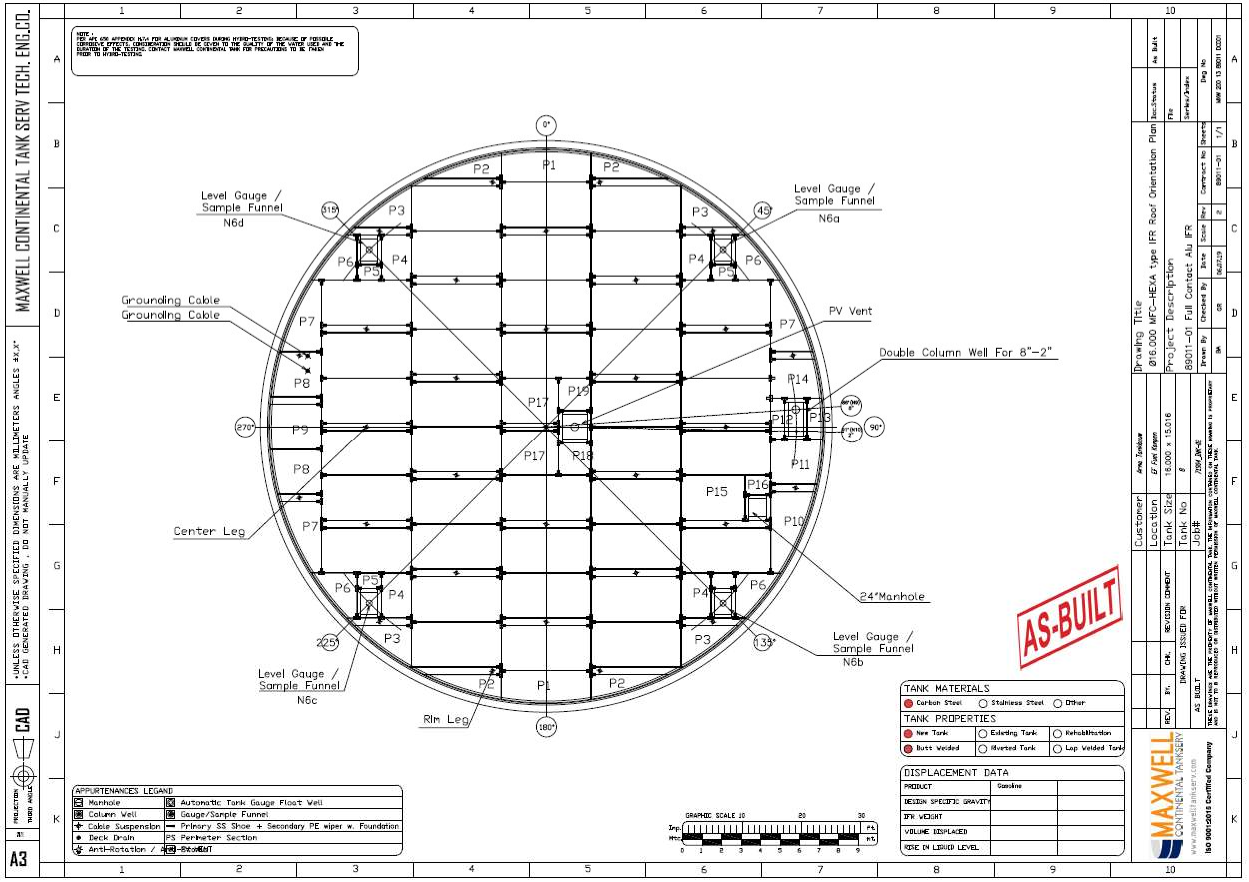
MFC-HEX

- Layout





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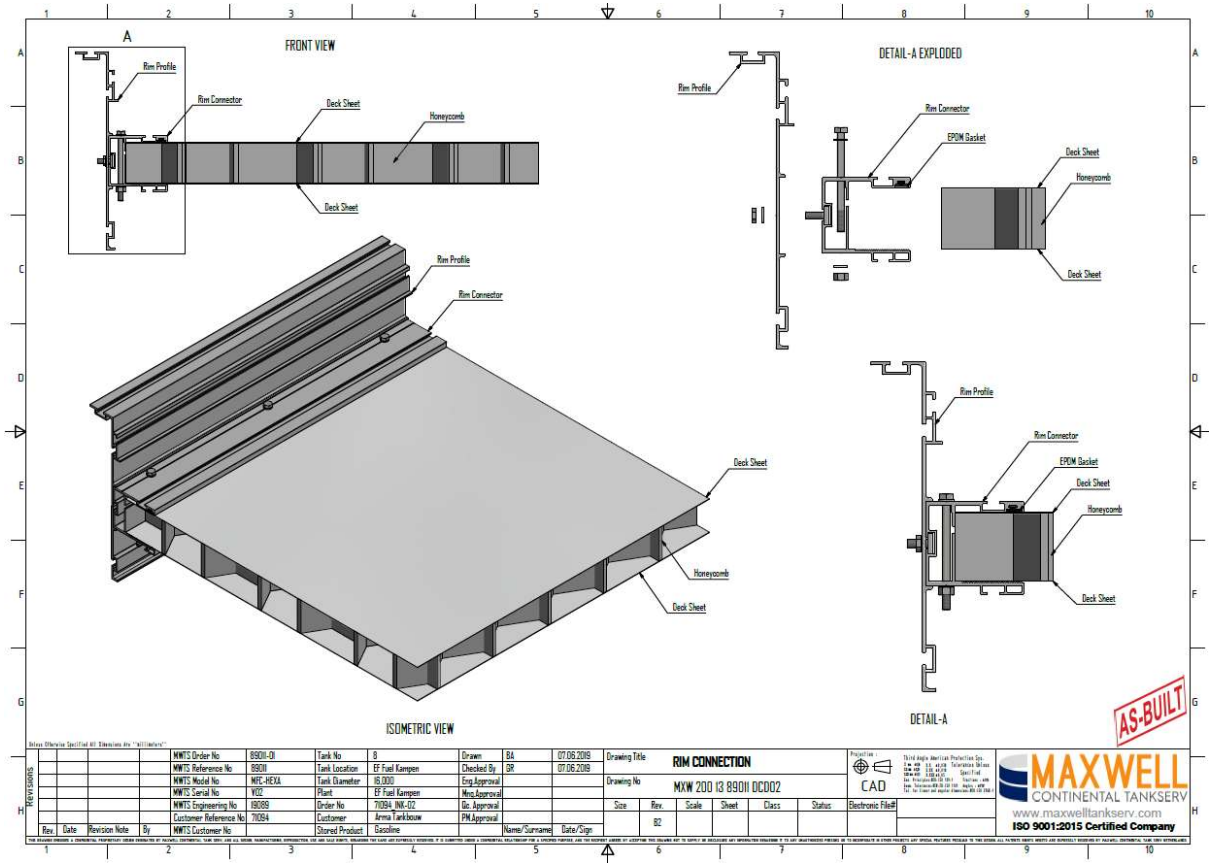
MFC-HEX

- Rim Joint



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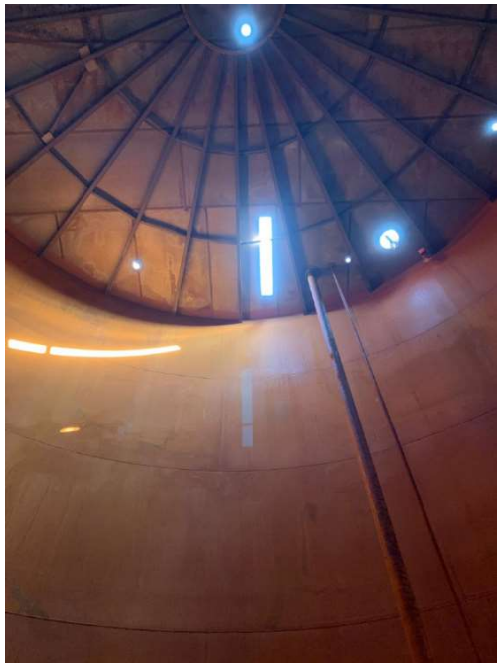
MFC-HEX

- Panel through envelope…



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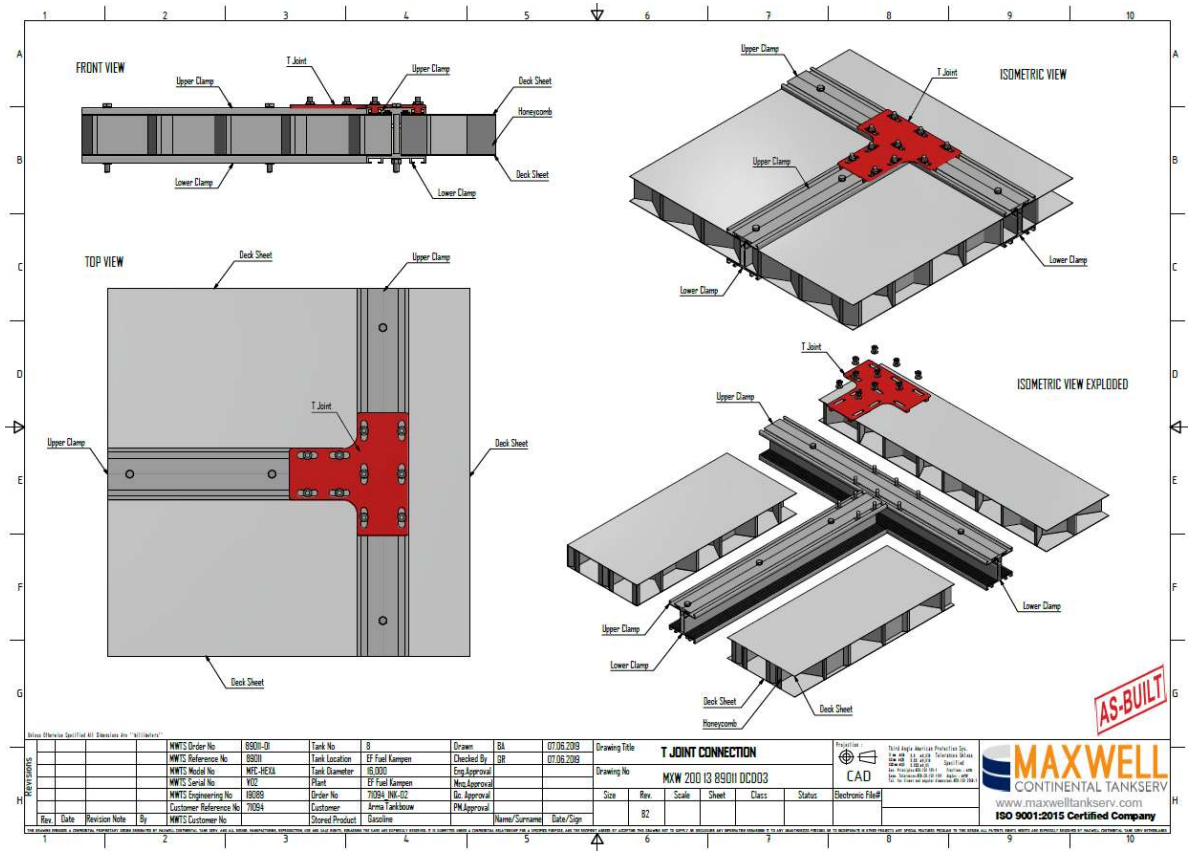
MFC-HEX

- Panel Joint



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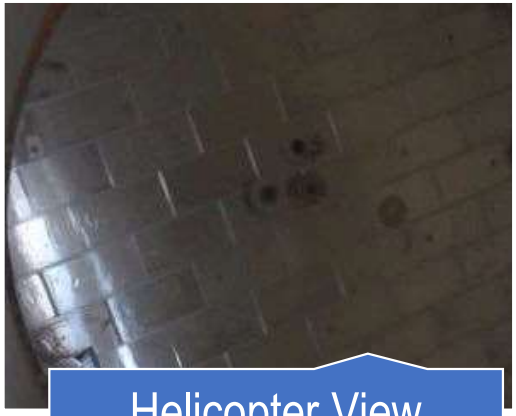
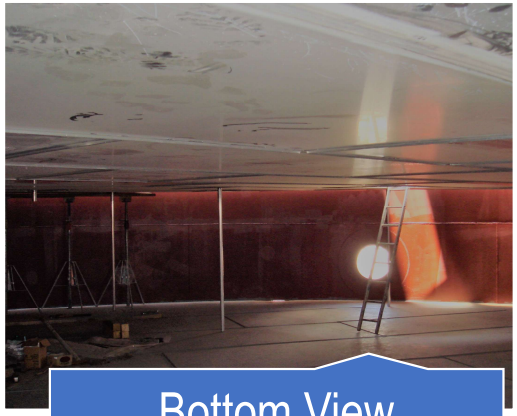
FC Internal Floating Roofs # MFC-BOX

- Hollow gas-tight modules
- Seal welded and pressure-tested at fabrication facility
- Unwanted load cases can not travel via core from top to bottom deck

Top View
FC Box type IFR



Helicopter View
FC Box type IFR



Bottom View
FC Box type IFR

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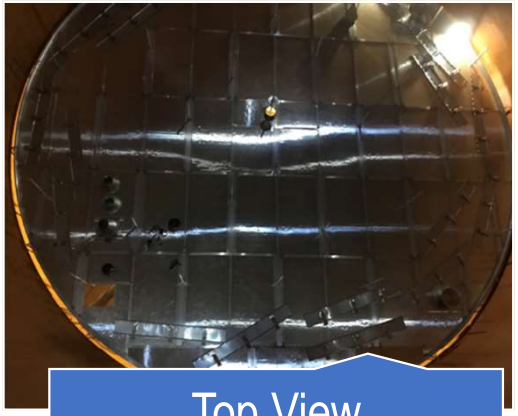
FC Internal Floating Roofs # MFC-PAN

- Pan type modules
- Not recommended option

Top
Pan type IFR



Top View
Pan type IFR

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Non-Contact IFR # MSP - Pontoon

- Aluminium, hybrid or stainless-steel design available
- Extrusions design meeting or exceeding EPA, API, ASME and Aluminum Association guidelines

Packing

Top View
Pontoon IFR

Bottom View
Pontoon IFR

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CS Above Ground Storage Tank # w. EFR

External Floating Roofs

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CS External Floating Roofs # Prefab

External Floating Roofs

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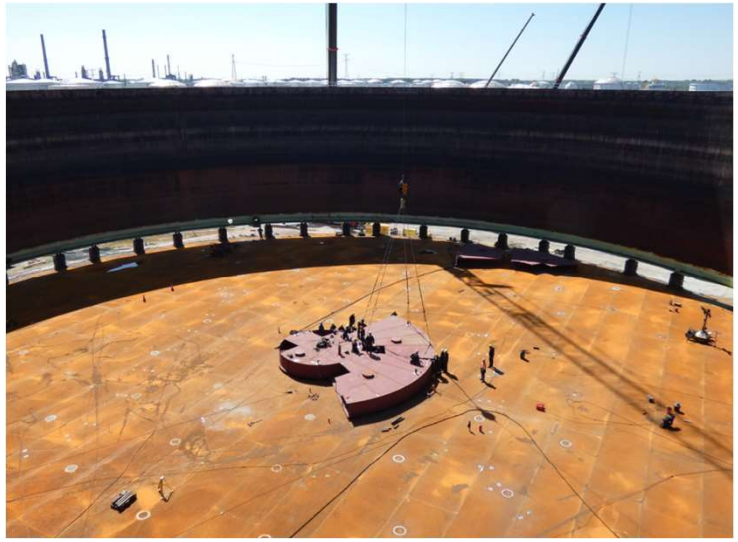
CS External Floating Roofs # Installation



External Floating Roofs

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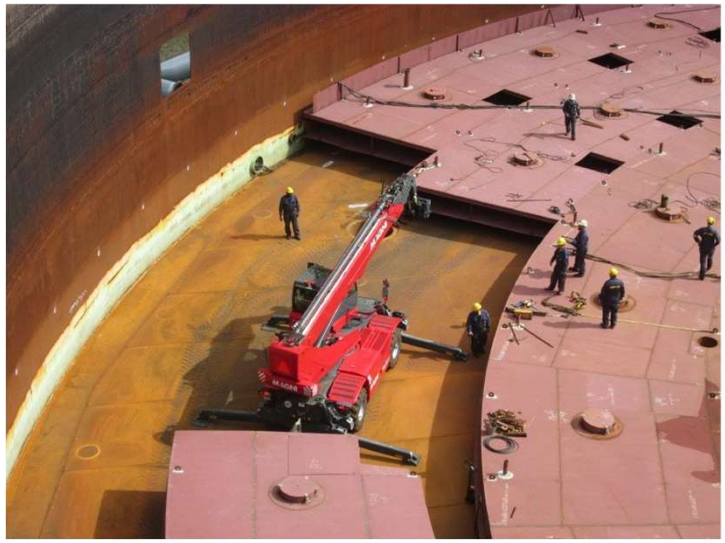
CS External Floating Roofs # Installation



External Floating Roofs

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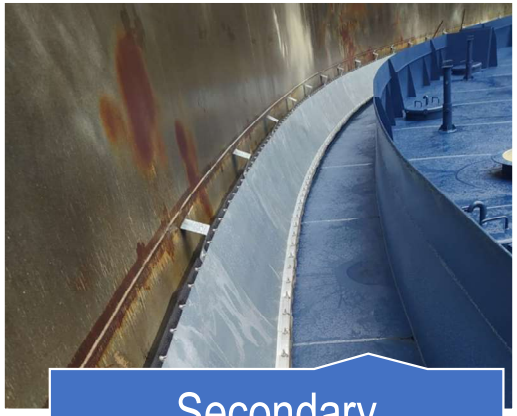
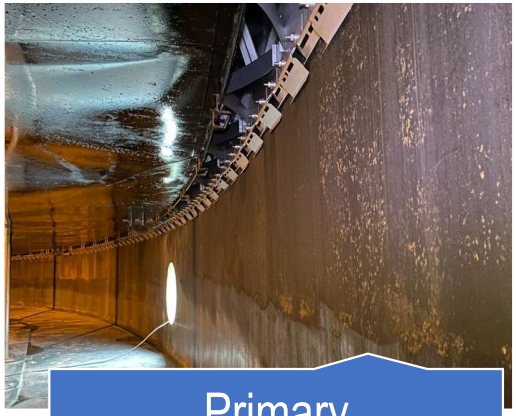
Floating Roof Rim Seals

- Primary for IFRs and EFRs
- Secondary for IFRs and EFRs



Secondary Rim Seals



Primary Rim Seals

Rim Seal Accessories

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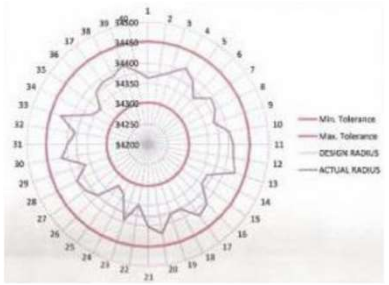
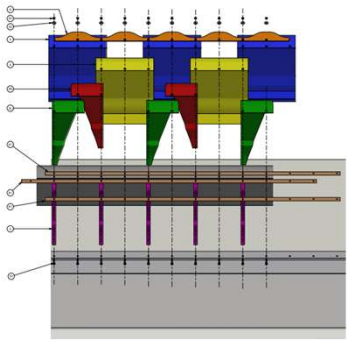
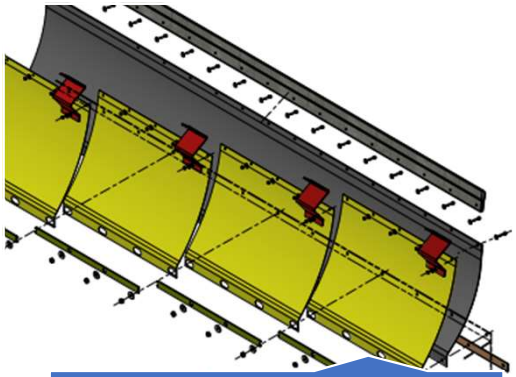
Floating Roof Rim Seals

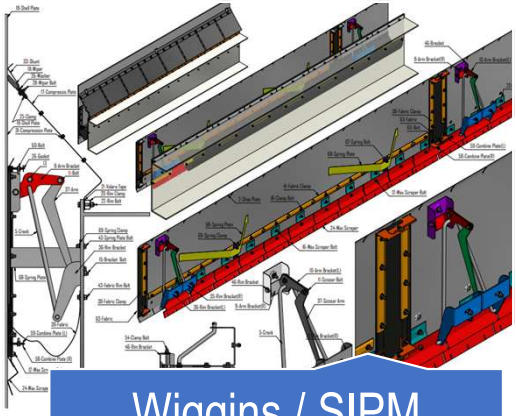
- Design and Manufacturing



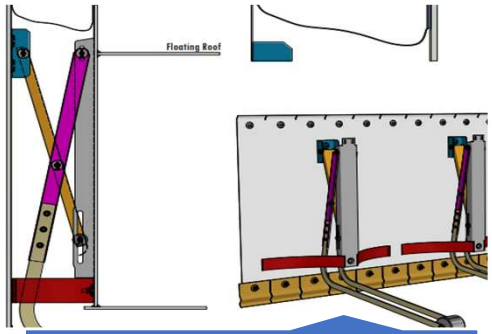




Compression Plate
-



Wiggins / SIPM
-



Pantograph
-

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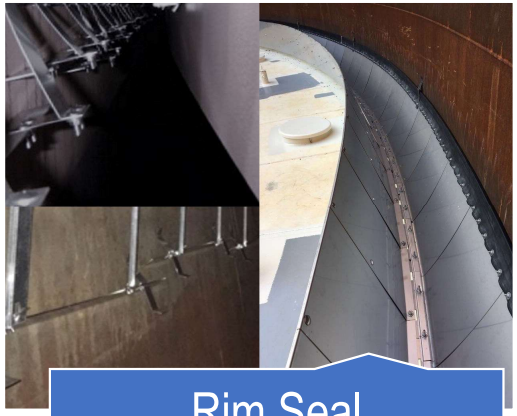
Floating Roof Rim Seals # Types

- EFR Rim Seals
- IFR Rim Seals
- Seal Accessories

EFR
Rim Seals

IFR
Rim Seals



Rim Seal
Accessories

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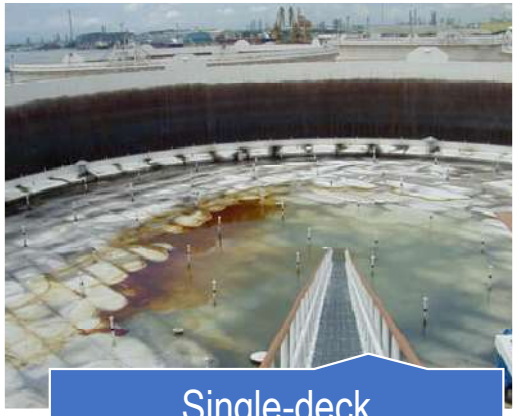
Floating Roof Rim Seals # EFR Typicals

- Single-deck w. pontoon
- Double-deck
- Pan type; Single-deck w. radial beam stiffeners



Single-deck w. pontoon

Double-deck

Single-deck w. radial beam stiffeners (SIPM)

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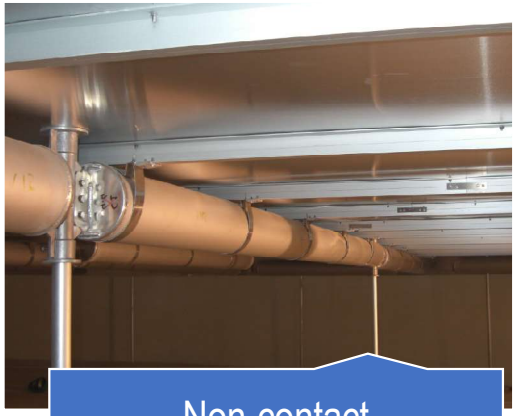
Floating Roof Rim Seals # IFR Typicals

- Contact Internal Floating Roofs
- Non-contact Skin & Pontoon

Full Contact



Non-contact
Skin & Pontoon

Mini-pontoons complement
existing buoyancy

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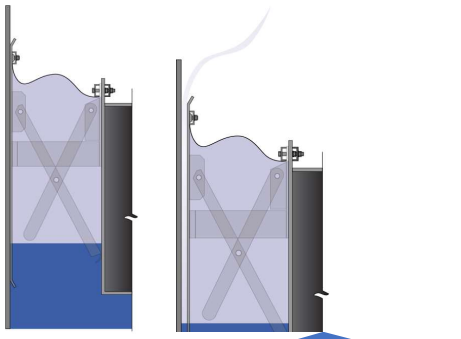
Floating Roof Rim Seals # Basic Designs

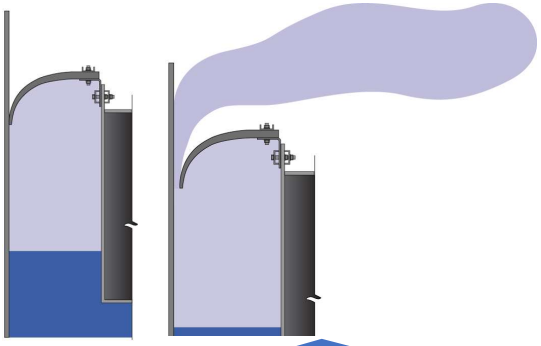
- Mechanical-Shoe Seal
- Liquid-Mounted Seal
- Vapor-Mounted Seal



Mechanical-Shoe Seal

Ideal emission control
- hard to get
- difficult to maintain

Liquid-Mounted Seal



Vapor-Mounted Seal

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Floating Roof Rim Seals # Design Criteria

- A rim seal should…
  - Materials in contact with product to be Product resistant
  - Materials subject to the atmosphere to be UV resistant
  - Sliding parts in contact with tank shell to be Wear resistant
  - Should center the floating roof
  - Damp the horizontal roof movements
  - Have an adequate working range for efficient annular rim gap
  - Prevent vapor losses
  - Prevention ingress of rainwater
  - Cause minimal reduction in tank capacity
  - Avoid evaporation of the stored product
  - Have minimal (capex) investment and installation costs
  - Be designed as longevity and with no maintenance
  - Materials must be antistatic and product-resistant
  - Service in bolted tank configuration
  - Be available as Internal Floating Roof seal
  - Have a low weight for fitting in IFR situation
  - Be available as External Floating Roof seal
  - Be available in wax scraping design
  - Secondary seal to be fire retardant
  - Have low height/rice of secondary seal to allow more filling capacity
  - Have a high Expected Lifetime
  - Be in compliance with API-650/653
  - Be in compliance with EEMUA-159
  - Be in compliance with pressure test per TÜV/TH-Luft Mb 908/A

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Floating Roof Rim Seals # should be…

- Summarised as…

1. Product Chemical resistant
2. UV resistant
3. Wear resistant
4. Centre floating roof
5. Damp roof movement
6. Having adequate working range
7. Prevent vapor loss
8. Prevention rainwater ingress

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Rim Seals – 1 – Product Chemical Resistant

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Rim Seals – 1 – Chemical Compatibility

Chemical Compatibility Chart

Notes -- Insufficient data available

* Reduced service life can be expected when this elastomer is exposed to certain types, grades, or concentrations of this chemical. Actual service life will depend on the proximity of the elastomer to the product, concentration of the chemical and temperature of the service environment. Materials in direct contact with the stored product or exposed to concentrated vapors may have a shorter life than materials exposed to air containing varying amounts of the product vapors.

** Do not use galvanized steel for aviation fuels.

Note 1) Sour tanks with levels of H2S in excess of 300 ppm should be evaluated separately.

Note 2) The above guidelines were compiled from data believed to be accurate. However, due to unique environmental conditions and contaminations, these recommendations are guidelines only.

Chemical	Urethane	Neoprene	Buna-N	Viton	PTFE (Teflon)	Aluminum	304/316 SS	Galvanized Steel
Acetone	N	N	N	N	Y	Y	Y / Y	Y
Acetyl Bromide	N	N	N	--	Y	--	--	--
Acetyl Chloride	N	N	N	Y	Y	N	Y / Y	--
ASTM Fuel A	Y	Y	Y	Y	Y	Y	Y / Y	Y
ASTM Fuel B	Y	N	Y *	Y	Y	Y	Y / Y	Y
ASTM Fuel C	Y *	N	Y *	Y	Y	Y	Y / Y	Y
ASTM Oil #1	Y	Y	Y	Y	Y	Y	Y / Y	Y
ASTM Oil #2	Y	Y	Y	Y	Y	Y	Y / Y	Y
ASTM Oil #3	Y	Y	Y	Y	Y	Y	Y / Y	Y
Alcohol - Ethyl	N	Y	Y	Y	Y	N	Y / Y	N
Alcohol - Methyl	N	Y	Y	N	Y	N	Y / Y	N
Aviation Gasoline	Y	N	Y	Y	Y	Y	Y / Y	N **
Benzene	N	N	N	Y	Y	Y	Y / Y	N
Butyl Acetate	N	N	N	N	Y	Y	Y / Y	Y
Crude Oil (Sour)	Y	Y *	Y	Y	Y	Y	Y [1] / Y	Y [1]
Crude Oil (Sweet)	Y	Y *	Y	Y	Y	Y	Y / Y	Y
Cyclohexane	Y	N	Y	Y	Y	Y	Y / Y	Y
Diesel Oil	Y *	Y *	Y	Y	Y	Y	Y / Y	Y
Ethylene Glycol	Y	Y	Y	Y	Y	N	Y / Y	N
Gasoline	Y	Y *	Y	Y	Y	Y	Y / Y	Y
Heptane	Y	N	Y	Y	Y	Y	Y / Y	Y
Hexane	Y	Y	Y	Y	Y	Y	Y / Y	Y
Isooctane	Y	Y	Y	Y	Y	Y	Y / Y	Y
Jet Fuels	Y	N	Y	Y	Y	Y	Y / Y	N **
Kerosene	Y	Y	Y	Y	Y	Y	Y / Y	Y
MTBE	Y *	N	Y *	N	Y	Y	Y / Y	Y
Methyl Ethyl Ketone	N	N	N	N	Y	Y	Y / Y	Y
Naptha	Y *	N	Y	Y	Y	Y	Y / Y	Y
Pentane	N	Y	Y	Y	Y	Y	Y / Y	Y
Propylene Glycol	Y	Y	Y	Y	Y	Y	Y / Y	Y
Toluene	Y *	N	N	Y	Y	Y	Y / Y	Y
Vinyl Acetate	N	N	N	N	Y	Y	Y / Y	Y
Xylene	N	N	N	Y	Y	Y	Y / Y	Y

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Rim Seals – 2 – UV Resistant

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Rim Seals – 3 – Wear Resistant

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Rim Seals – 4 – Centre Floating Roof

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Rim Seals – 5 – Damp Roof Movement

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Rim Seals – 6 – Adequate Working Range

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Rim Seals – 6 – Adequate Working Range

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Rim Seals – 7 – Prevent Vapour Loss

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Rim Seals – 8 – Prevent Rainwater Ingress

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Storage Tank (Shell) Tolerances # Standards

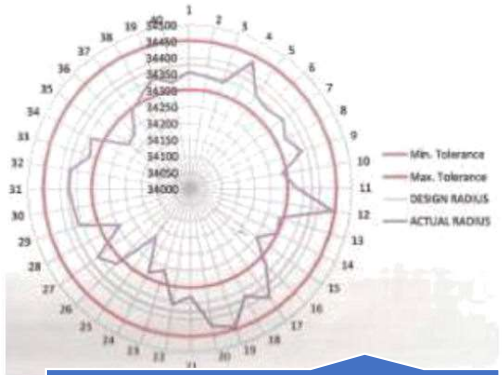
- New construction tolerances # API 650 (H=1/200)
- Acceptable In Service Tolerances # API 653 (H=1/100 # max. 127 mm)
- EEMUA 159 (-X/+3X)

Tanks diameter	Radius Tolerance
< 12 m	+/- 13 mm
12 m - < 45 m	+/- 19 mm
45 m - < 75 m	+/- 25 mm
> 75 m	+/- 32 mm

Tolerances per API

Tanks diameter	Radius Tolerance
< 12 m	(39)
12 m - < 45 m	(57)
45 m - < 75 m	(75)
> 75 m	(93)

Translated into EEMUA-159



Out of Roundness is NOT Out of verticality

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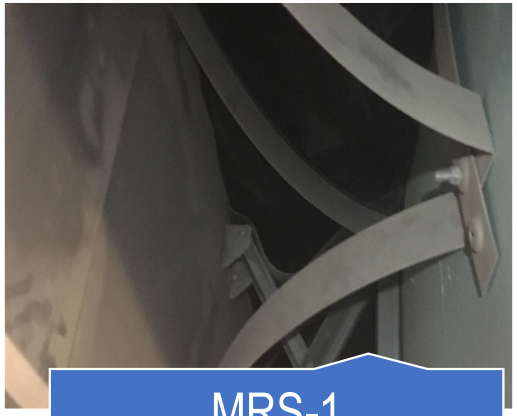
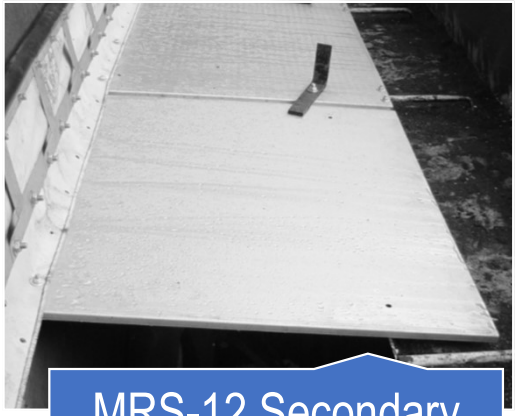
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Mechanical-Shoe Seal (HD/Scissor/SIPM/Wiggins/Pantograph)
- MRS-12 Secondary Shoe-Mounted Seal
- MRS-3 Primary Spring Plate Shoe Seal



MRS-1
Mechanical-Shoe Seal



MRS-12 Secondary
Shoe-Mounted Seal

MRS-3 Primary Spring
Plate Shoe Seal

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EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty + MRS-12 Shoe-Mounted Secondary

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EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty + MRS-12 Shoe-Mounted Secondary

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EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty + MRS-12 Shoe-Mounted Secondary

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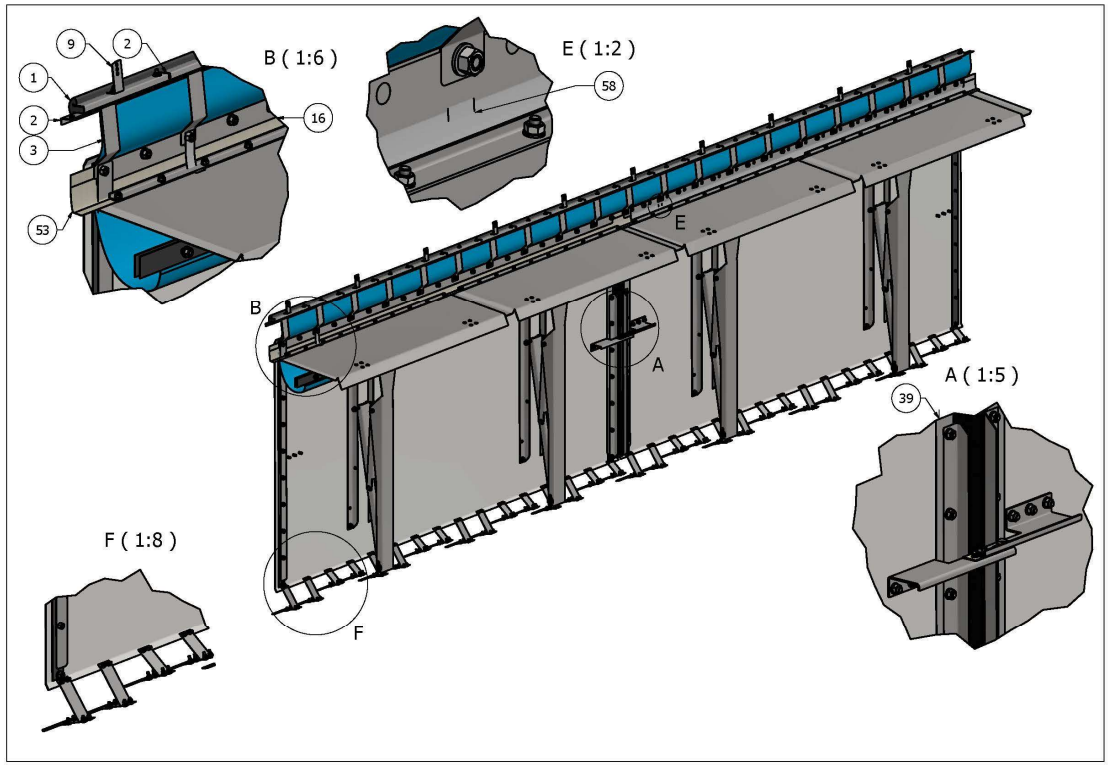
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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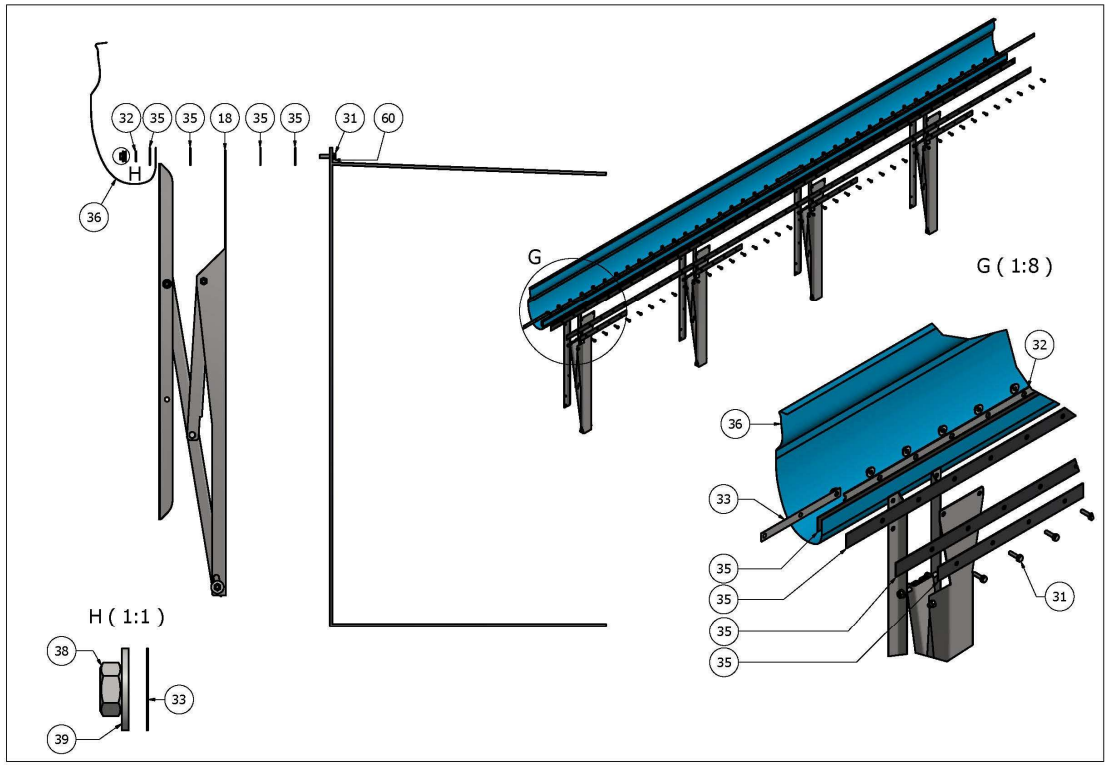
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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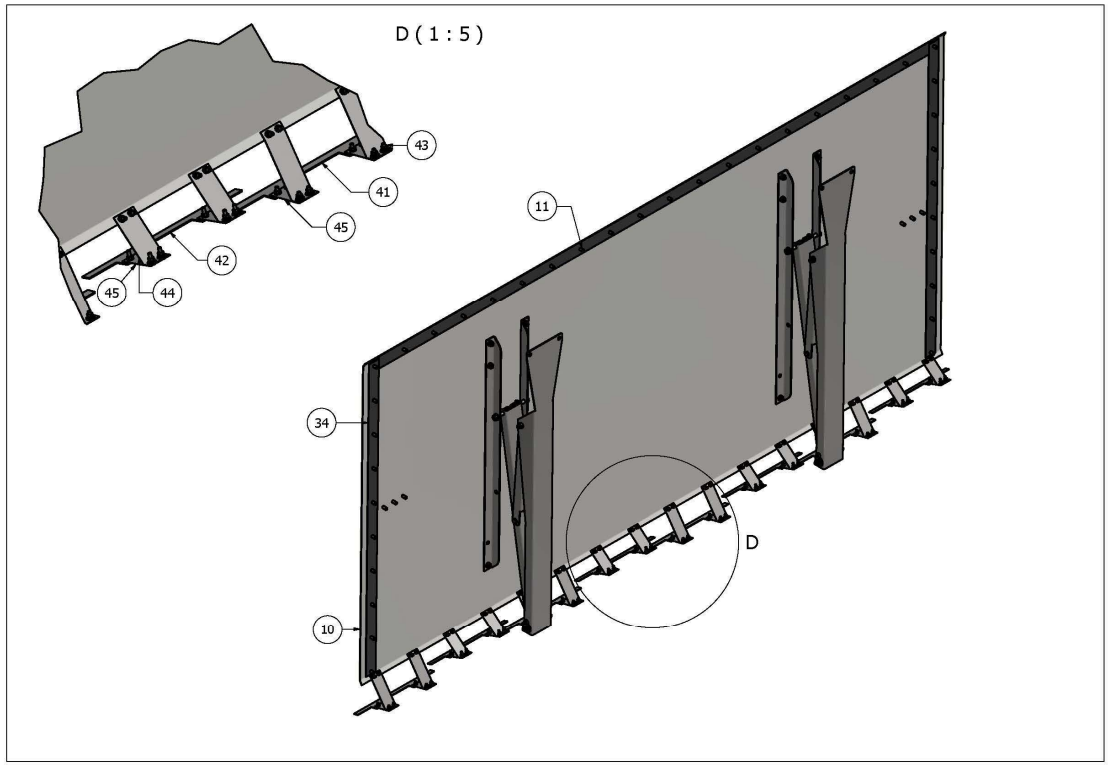
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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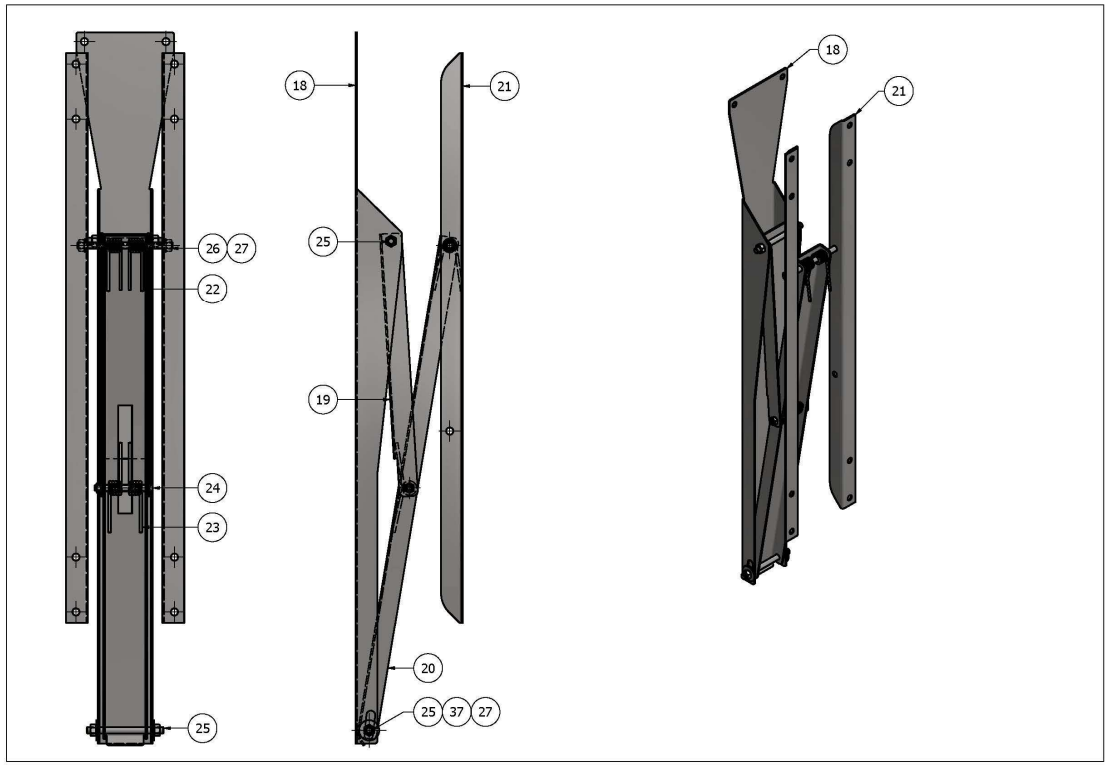
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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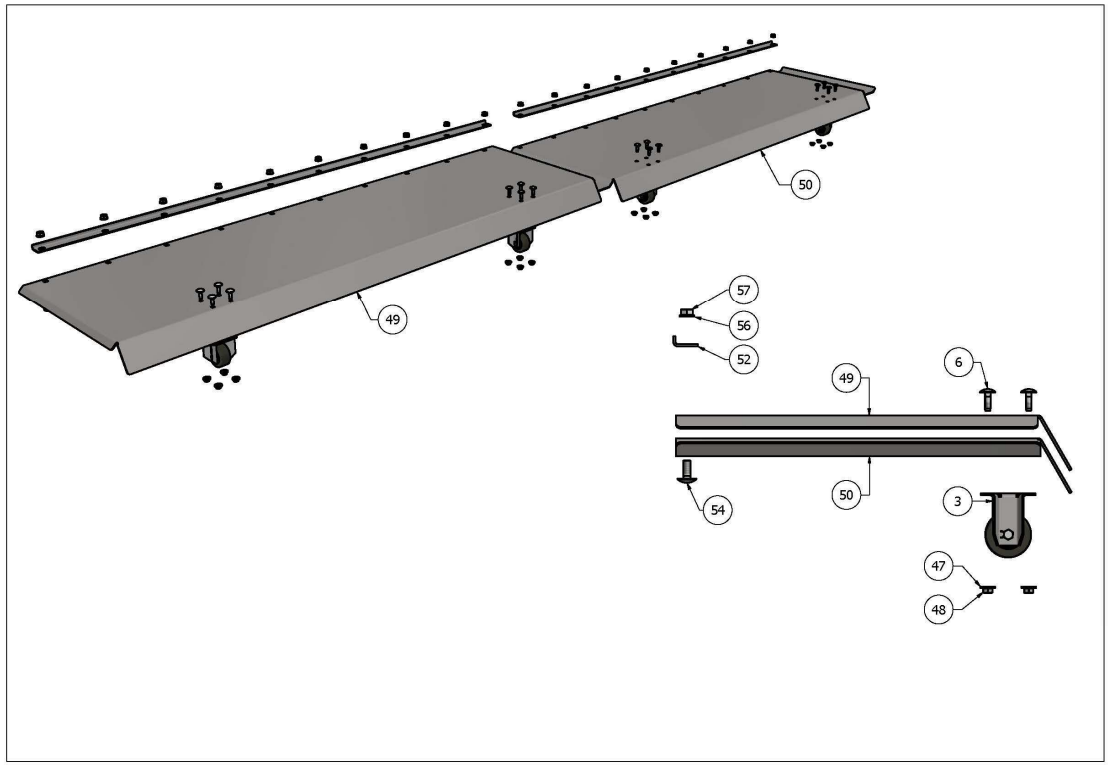
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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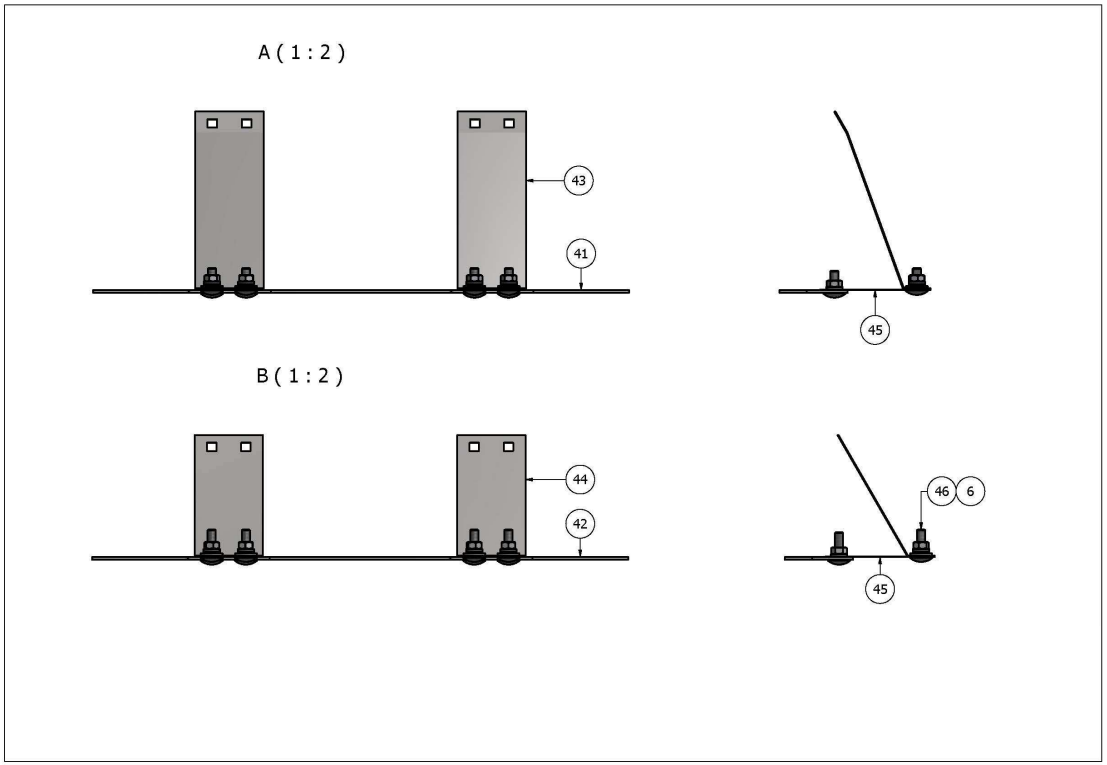
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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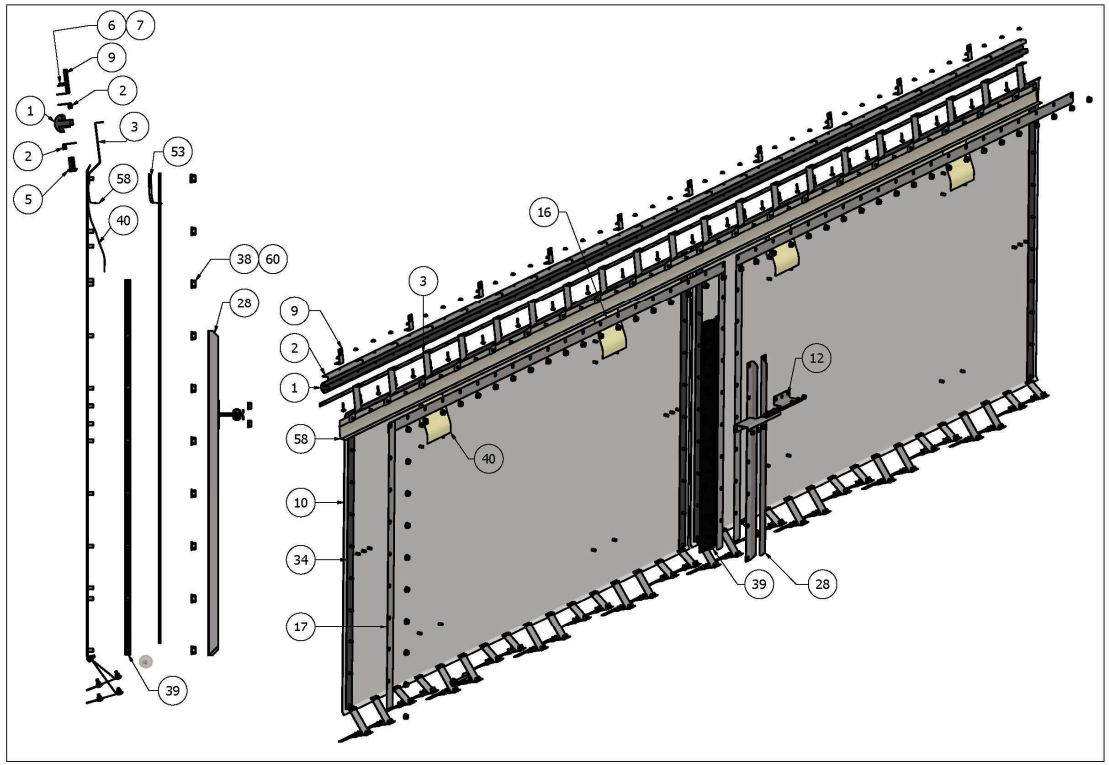
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Heavy Duty
- MRS-12 Secondary



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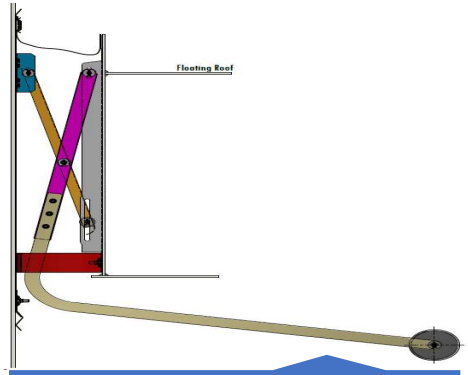
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Pantograph
  - The initial idea… named as SR-1

MRS-1
Pantograph

MRS-1
Initial



MRS-1
Revitalized

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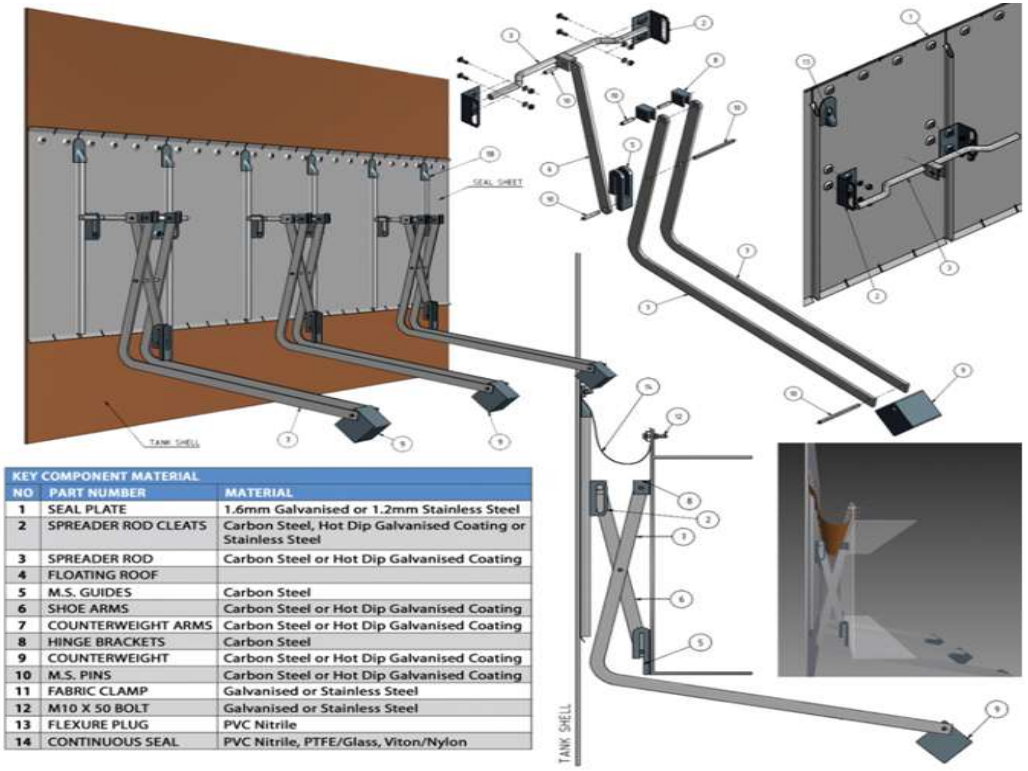
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Pantograph



KEY COMPONENT MATERIAL		
NO	PART NUMBER	MATERIAL
1	SEAL PLATE	1.6mm Galvanised or 1.2mm Stainless Steel
2	SPREADER ROD CLEATS	Carbon Steel, Hot Dip Galvanised Coating or Stainless Steel
3	SPREADER ROD	Carbon Steel or Hot Dip Galvanised Coating
4	FLOATING ROOF	
5	M.S. GUIDES	Carbon Steel
6	SHOE ARMS	Carbon Steel or Hot Dip Galvanised Coating
7	COUNTERWEIGHT ARMS	Carbon Steel or Hot Dip Galvanised Coating
8	HINGE BRACKETS	Carbon Steel
9	COUNTERWEIGHT	Carbon Steel or Hot Dip Galvanised Coating
10	M.S. PINS	Carbon Steel or Hot Dip Galvanised Coating
11	FABRIC CLAMP	Galvanised or Stainless Steel
12	M10 X 50 BOLT	Galvanised or Stainless Steel
13	FLEXURE PLUG	PVC Nitrile
14	CONTINUOUS SEAL	PVC Nitrile, PTFE/Glass, Viton/Nylon

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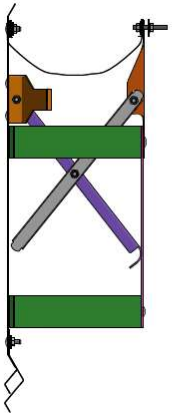
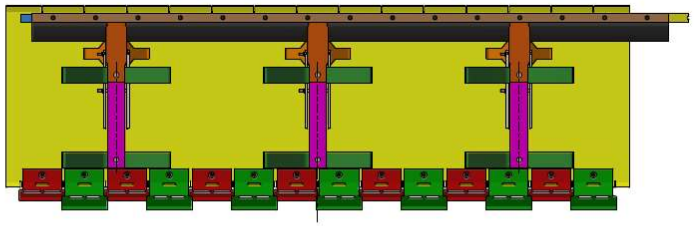
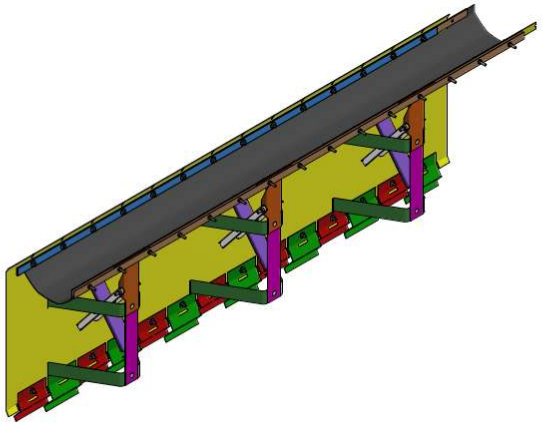
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Scissor







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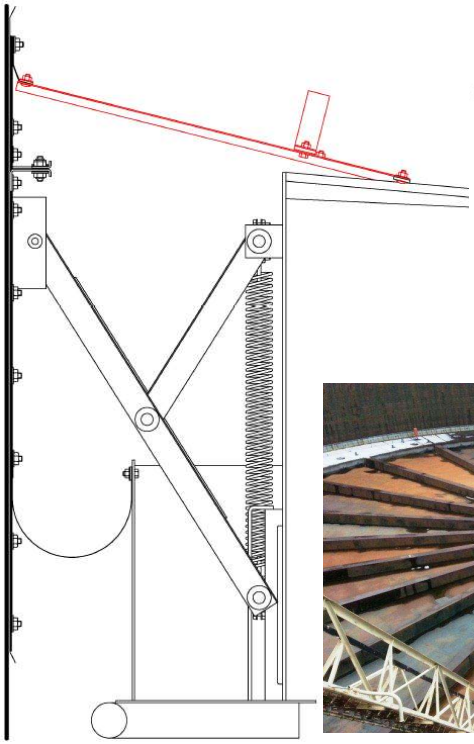
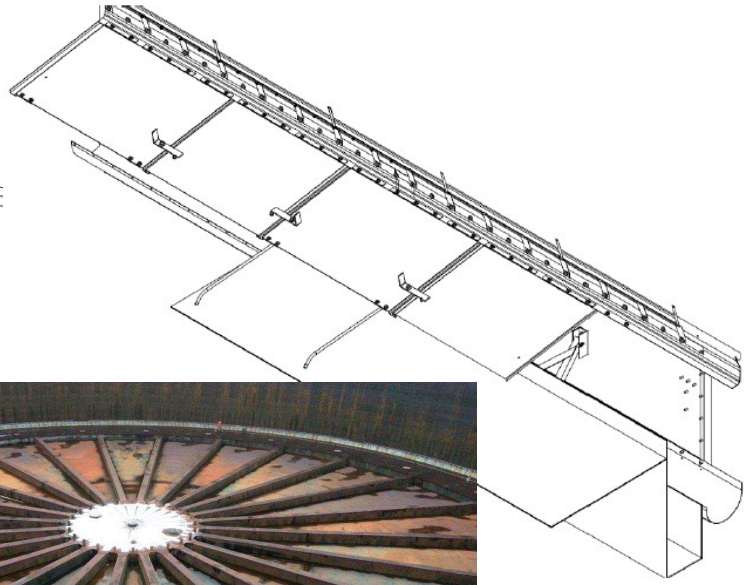
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 SIPM





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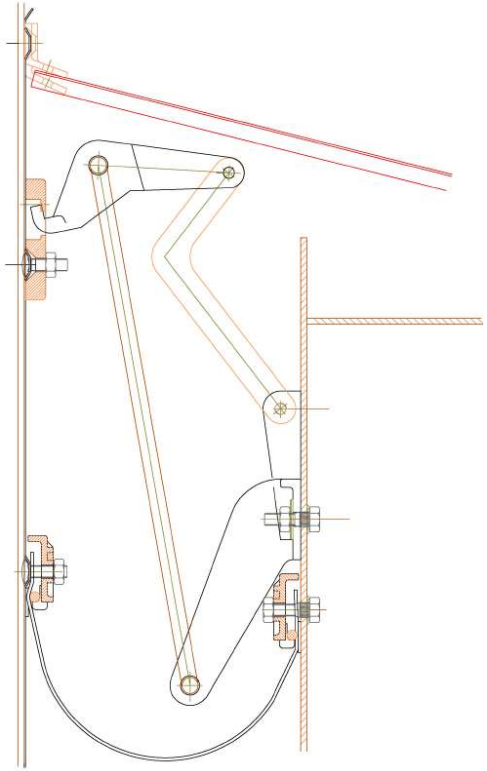
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Wiggins



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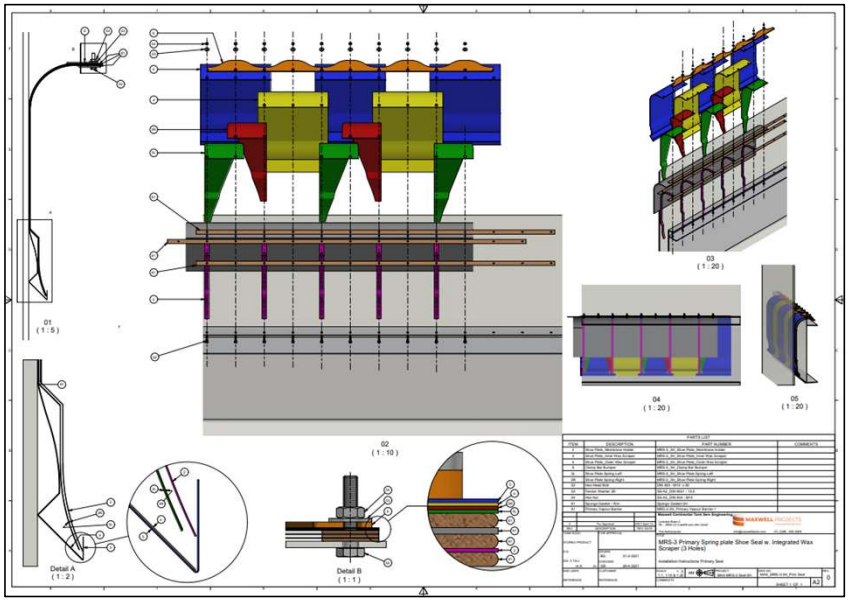
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-3 Primary Spring Plate Shoe Seal
- Gas-tight shoe seal with equal emission saving as liquid mounted seals



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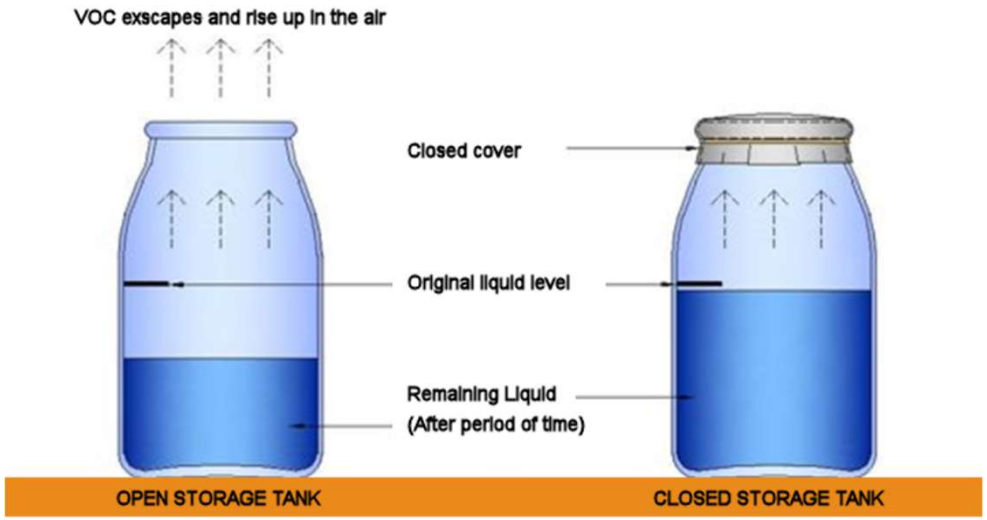
EFR Rim Seals # Mechanical-Shoe Seal

- MRS-3 Primary Spring Plate Shoe Seal
- **Gas-tight Conceptually speaking…**



Rim Seal Pressure Test per German TÜV

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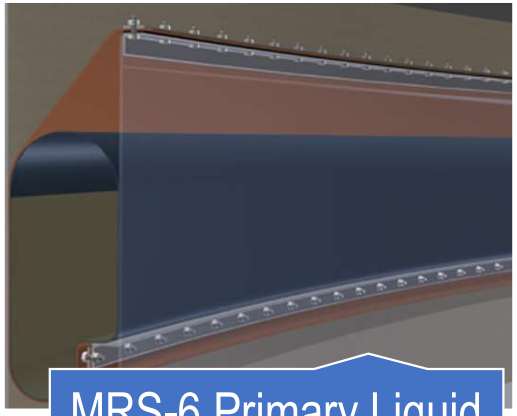
EFR Rim Seals # Liquid-Mounted Seal

- MRS-6 Primary Liquid Filled Tube Seal
- MRS-7 Primary Foam Filled Seal



MRS-6 Primary Liquid Filled Tube Seal

MRS-7 Primary Foam Filled Seal

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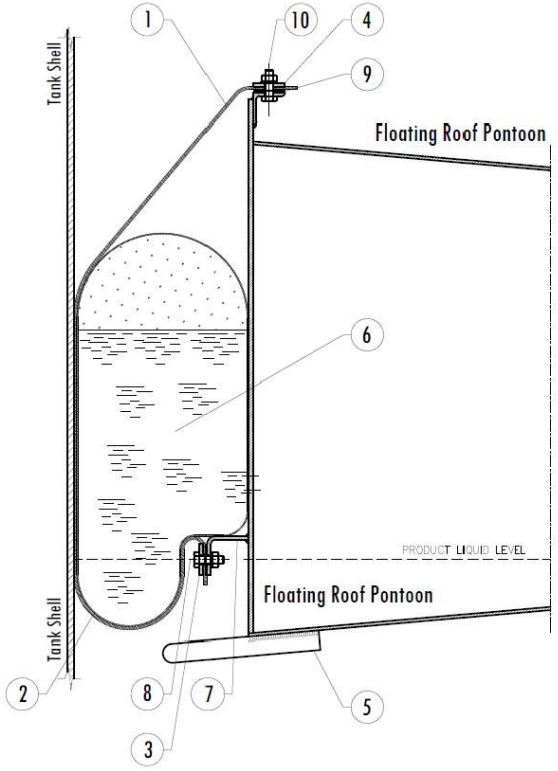
EFR Rim Seals # Liquid-Mounted Seal

- MRS-6 Primary Liquid Filled Tube Seal



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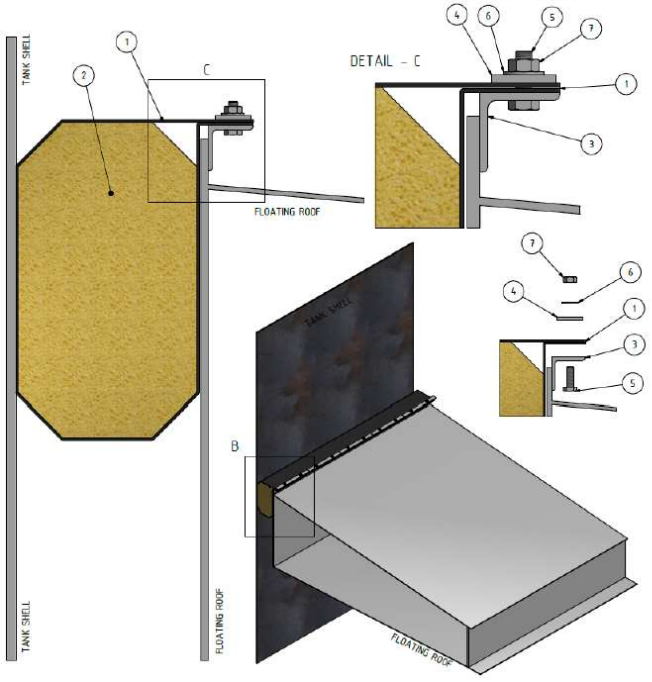
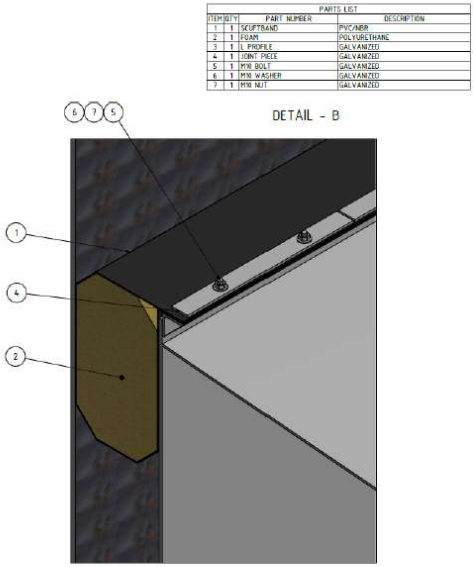
EFR Rim Seals # Liquid-Mounted Seal

- MRS-7 Primary Foam Filled Seal





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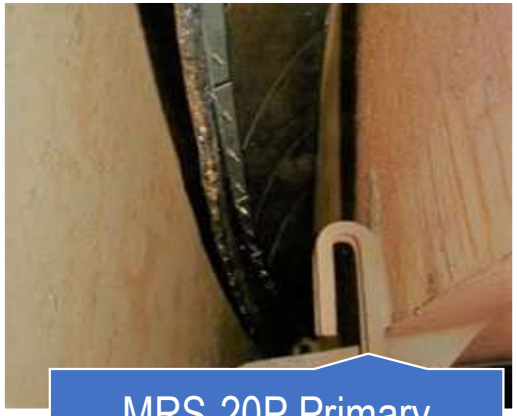
EFR Rim Seals # Vapor-Mounted Seal

- MRS-20P Primary Compression Plate Seal
- MRS-20S Secondary Compression Plate Seal
- MRS-25 Weather Shield



MRS-20P Primary Compression Plate Seal

MRS-20S Secondary Compression Plate Seal

MRS-25 Weather Shield

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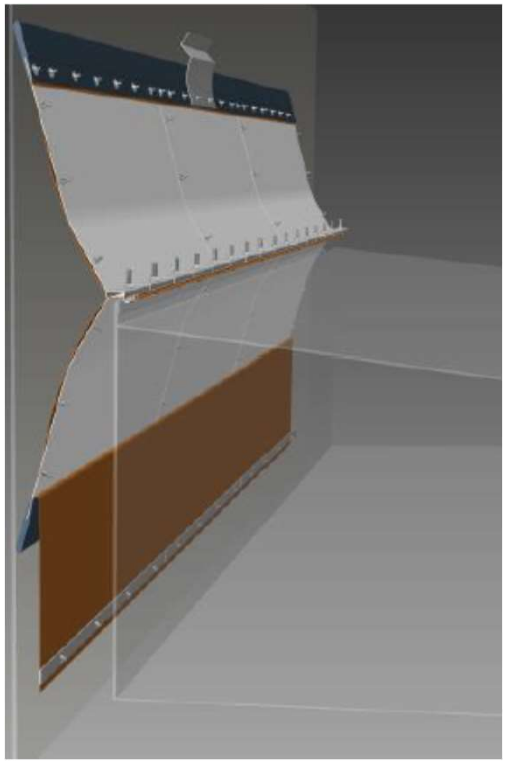
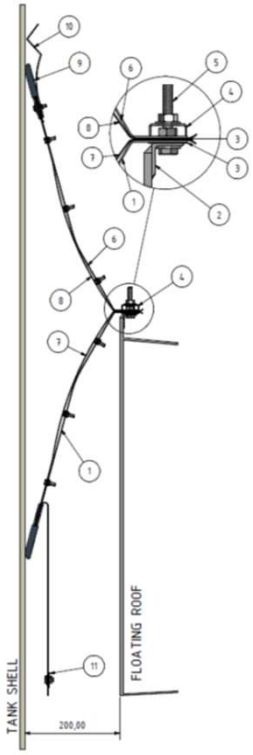
EFR Rim Seals # Vapor-Mounted Seal

- MRS-20 Compression Plate Seal





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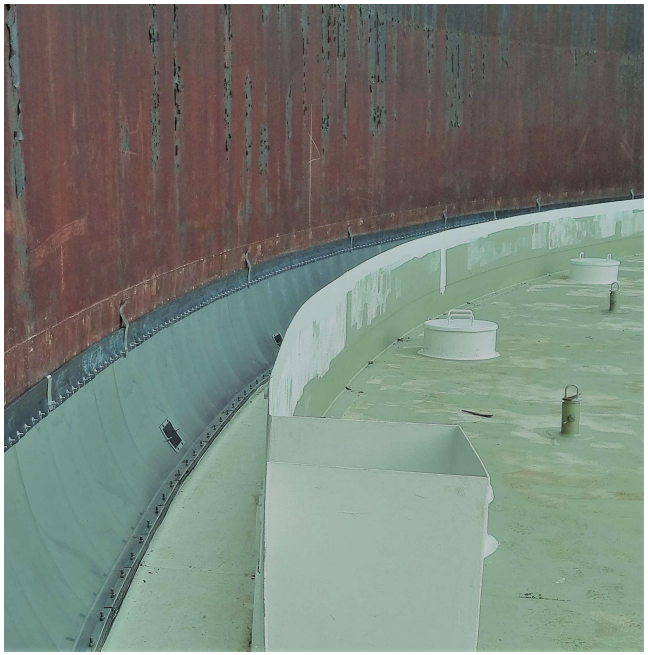
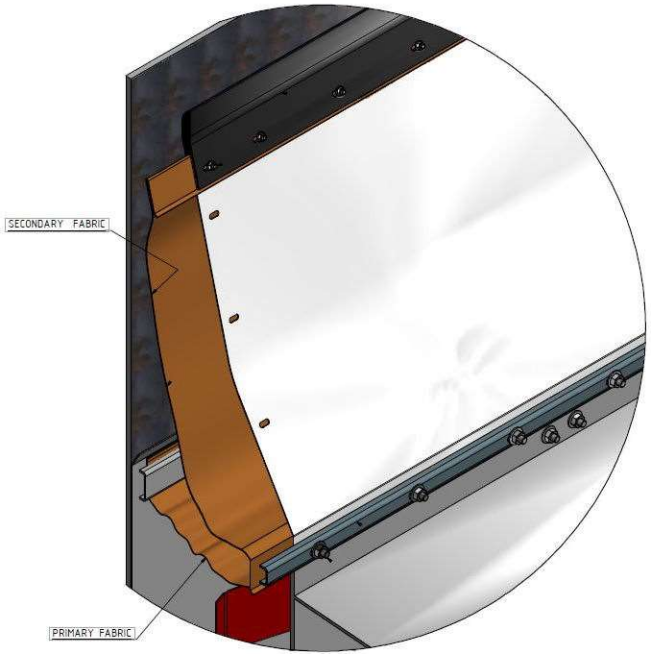
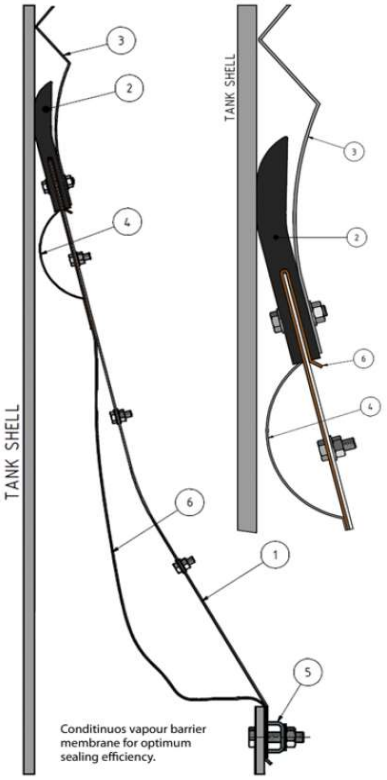
EFR Rim Seals # Vapor-Mounted Seal

- MRS-20 Compression Plate Seal







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IFR Rim Seals # Mechanical-Shoe Seal

- MRS-1 Mechanical-Shoe Seal
- MRS-3 Primary Spring Plate Shoe Seal

MRS-1
Mechanical-Shoe Seal

MRS-3 Primary Spring
Plate Shoe Seal

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IFR Rim Seals # Liquid-Mounted Seal

- MRS-6 Primary Liquid Filled Seal

MRS-6 Primary Liquid Filled Seal

Static Shunt

Vulcanised Enveloppe Weld

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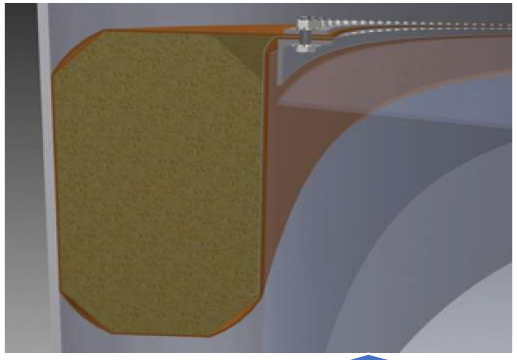
IFR Rim Seals # Liquid-Mounted Seal

- MRS-7 Primary Foam Filled Seal



MRS-7 Primary Foam Filled Seal

Static Shunt

Vulcanised Enveloppe Weld

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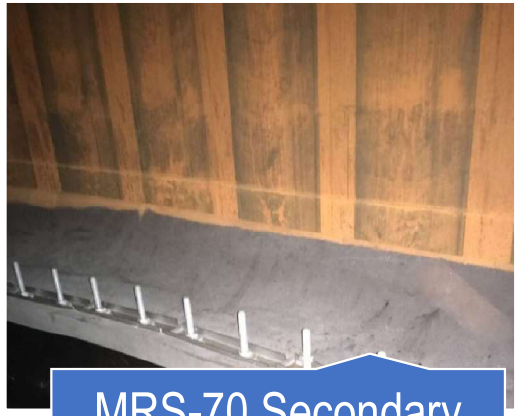
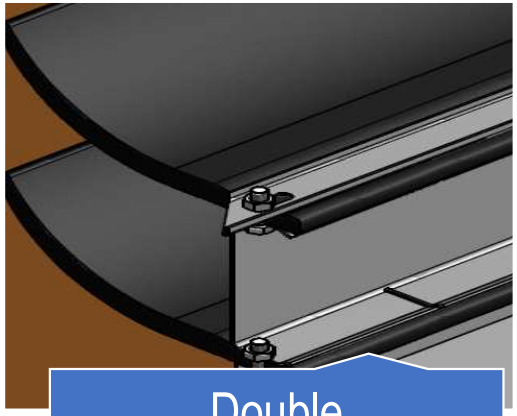
IFR Rim Seals # Vapor-Mounted Seal

- MRS-60 Primary Wiper Seal
- MRS-70 Secondary Wiper Seal
- Double Wiper Seal

MRS-60 Primary Wiper Seal



MRS-70 Secondary Wiper Seal



Double Wiper Seal

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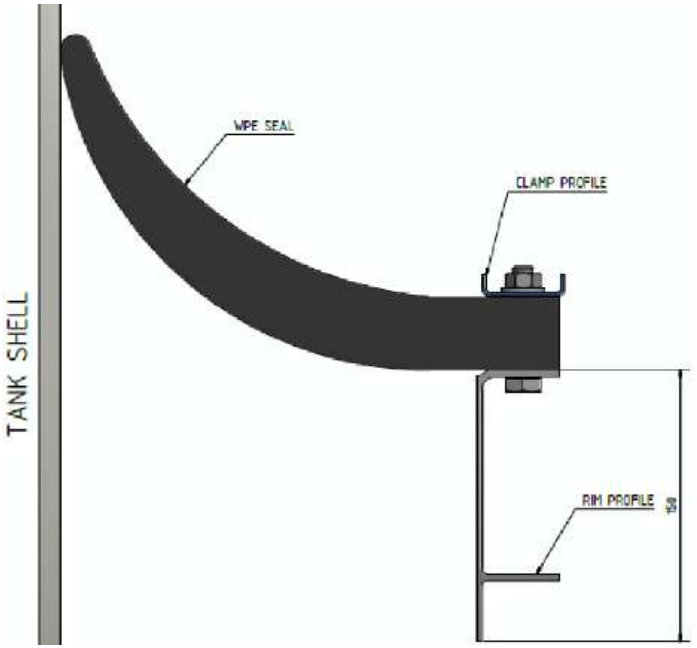
IFR Rim Seals # Vapor-Mounted Seal

- MRS-60 Primary Wiper Seal



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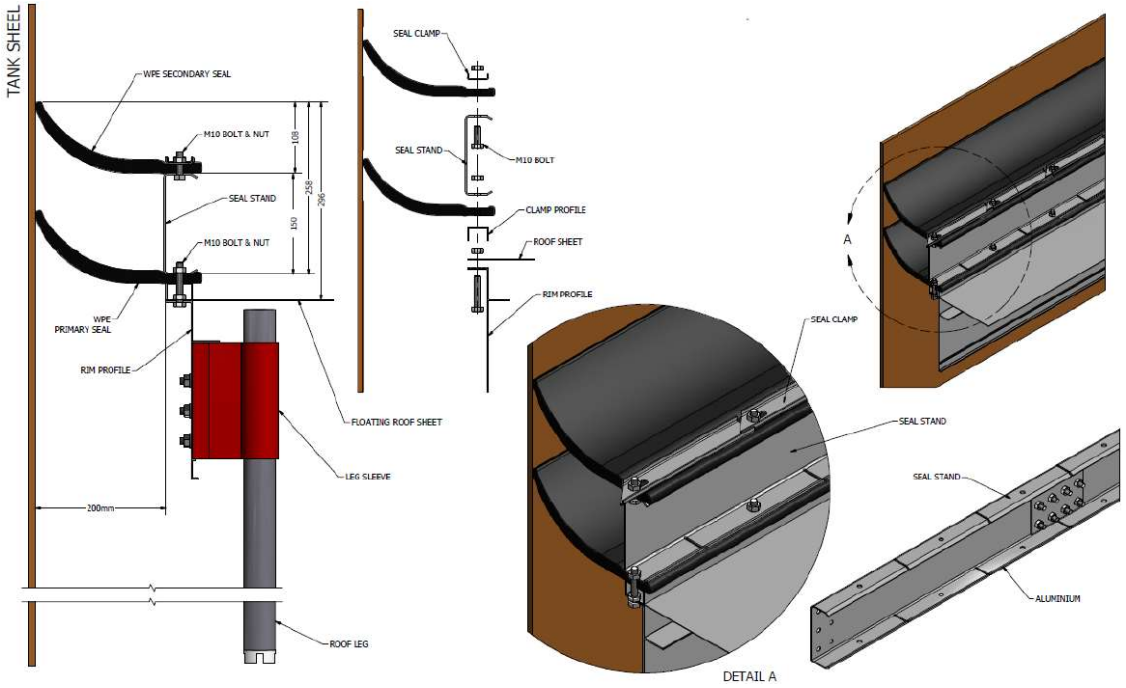
IFR Rim Seals # Vapor-Mounted Seal

- MRS-60_70 Double Wiper Seal



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Rim Seals Accessories # Wax Scraper

- Independent
- Shoe Mounted
- Integral

Floating Roof crude collection

Rim Seal contaminated with Crude

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Wax Scraper # Independent

- Excellent / Best

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Wax Scraper # Shoe Mounted

- Good / Average

Wax Scraper - Integral

- Poor

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Rim Seals Accessories # Foam Dam

- Rim Fire Scenario

To prevent…
Fire Fighting

Field Test…

…to prevent

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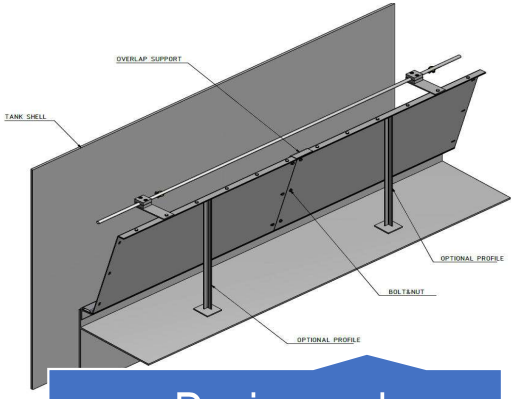
Rim Seals Accessories # Foam Dam

- Integral
- Box

Integral Foam Dam



Design and Engineering criteria

Foam Dam Box around Gauge Pole

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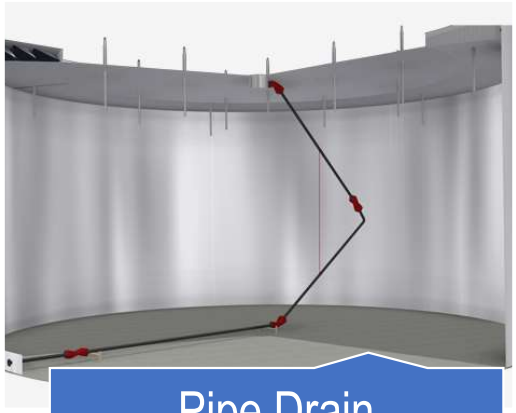
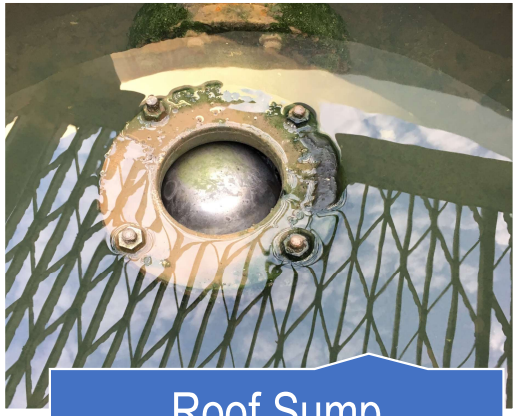
Roof Drain Systems

- Pipe Drain Systems
- Hose Drain Systems
- Roof Sump Drain Valves



Pipe Drain Systems

Hose Drain Systems



Roof Sump Drain Valves

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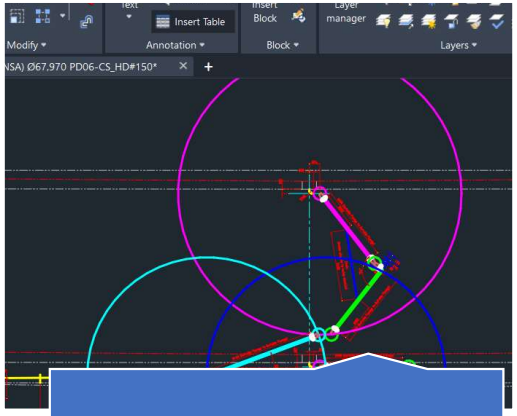
Pipe Drain # Pro-Drain (pivot joints)

- Maintenance Free



Engineering

Installation

Handover

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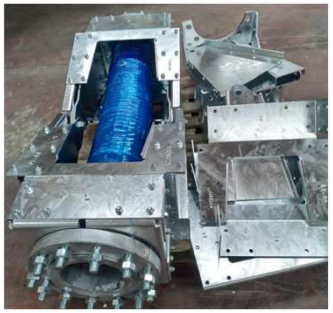
Pipe Drain # Pro-Drain (pivot joints)

- Standard pivot joint design
  3” to 8”
  DN80 to DN200



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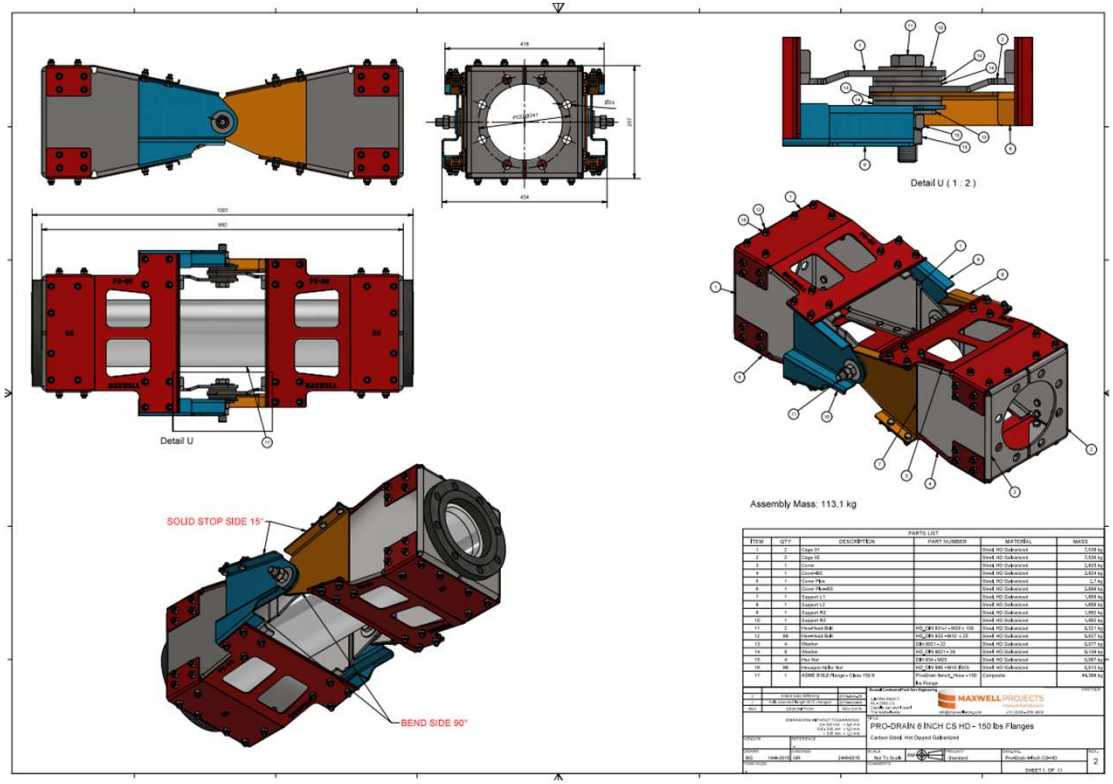

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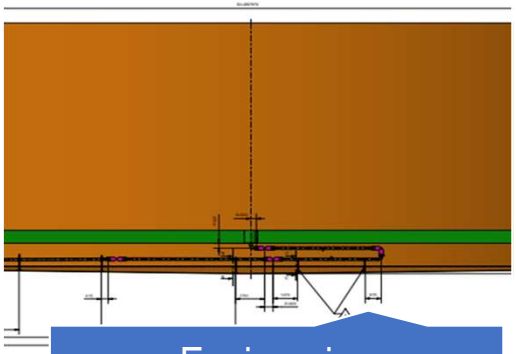
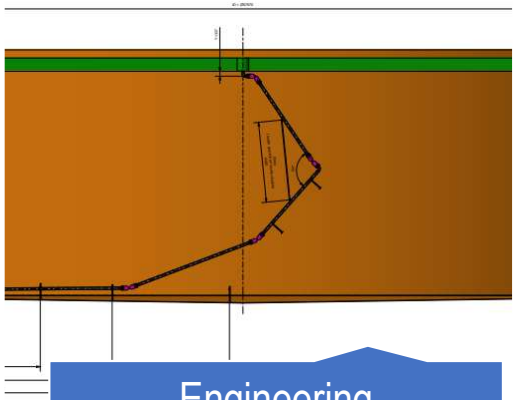
Pipe Drain # Pro-Drain (pivot joints)

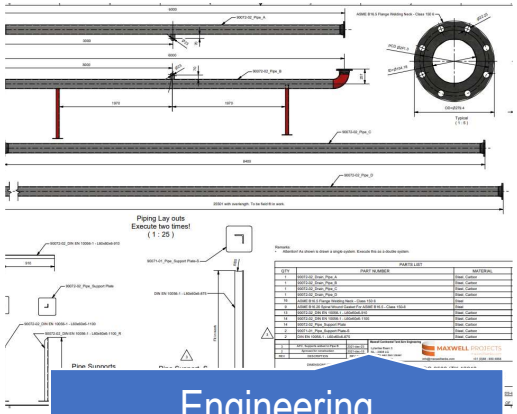
- Engineering



Engineering
Low Drain Height



Engineering
High Drain Height



Engineering
Articulated Piping Parts

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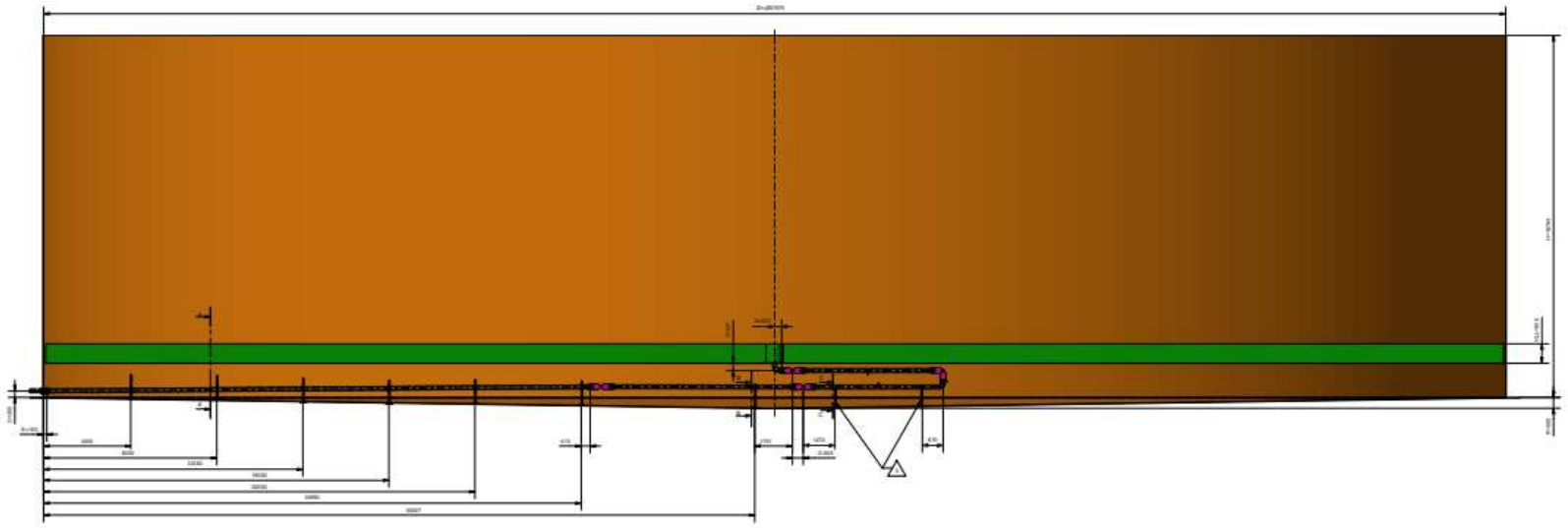
Pipe Drain # Pro-Drain (pivot joints)

- Low Drain Height



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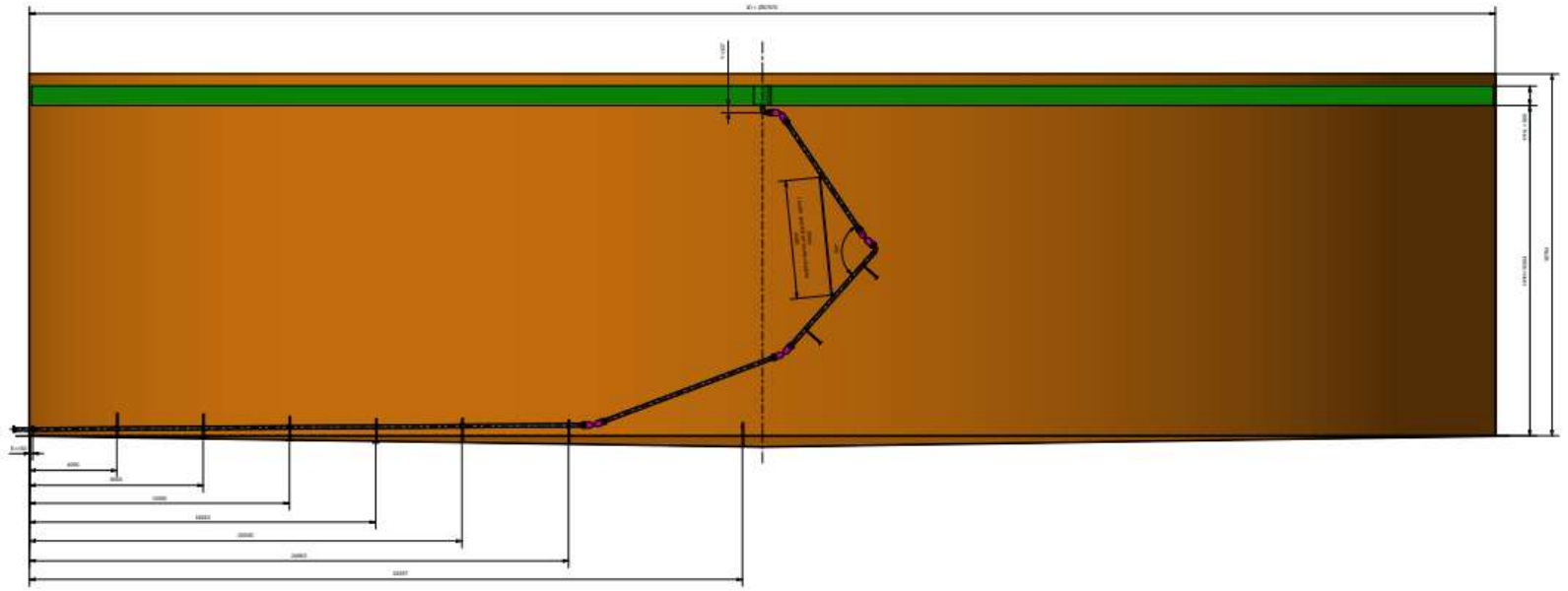
Pipe Drain # Pro-Drain (pivot joints)

- High Drain Height



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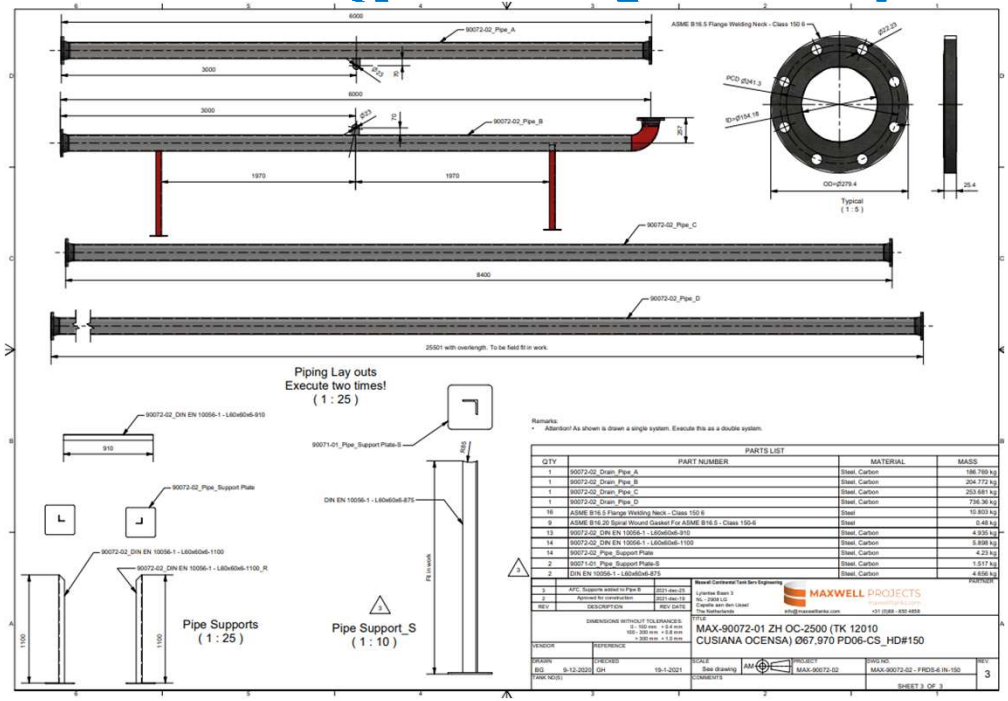
Pipe Drain # Pro-Drain (pivot joints)

- Articulated Piping Parts



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Pipe Drain # Pro-Drain (pivot joints)

- Assembly to packing

Assembly

Marking

Packing

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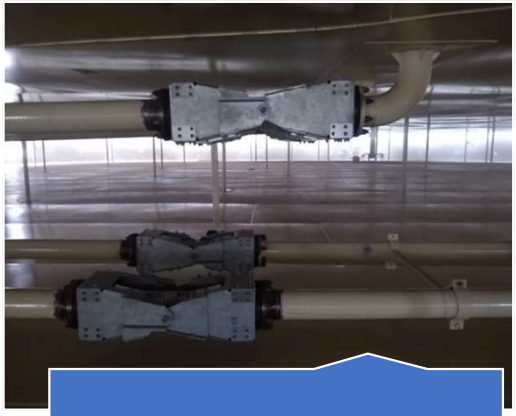
Pipe Drain # Pro-Drain (pivot joints)

- After installation

-



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Pipe Drain # Pro-Drain (pivot joints)

- After installation

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Pipe Drain # Pro-Drain (pivot joints)

- Handover inspection

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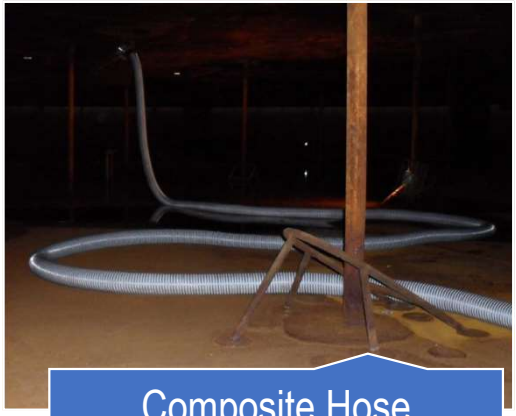
Hose Drain # Composite or Rubber

- Maintenance Free

Rubber Hose Drain Systems



Composite Hose Drain Systems

Roof Sump Connection

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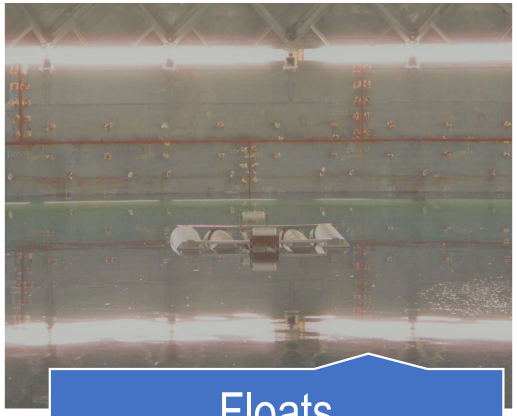
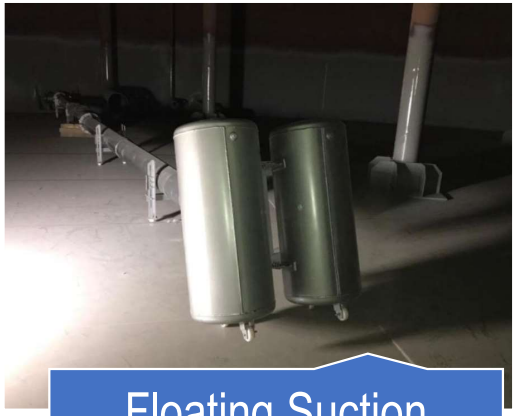
Floating Suction / Skimmer

- Floating Suction Systems
- Oil Skimmer Systems



Floats
(during water test)



Floating Suction
Systems

Oil Skimmer
Systems

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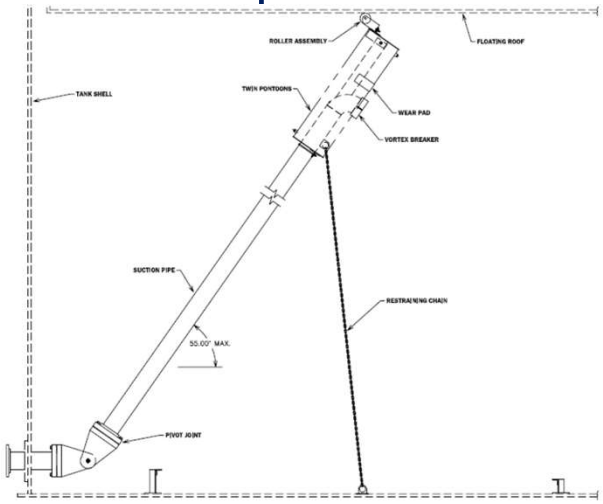
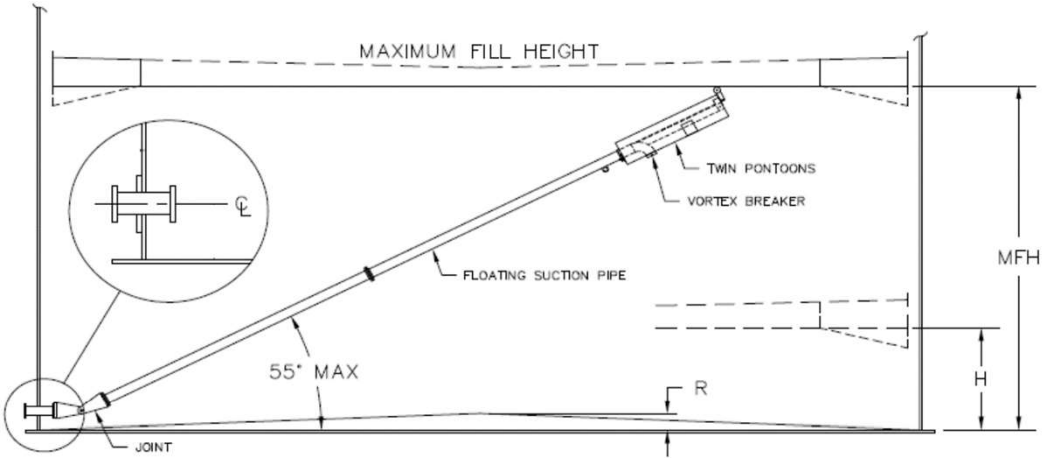
Floating Suction

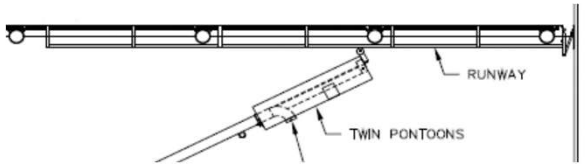
- Principle



Oil Skimmer with floats



Articulated piping under EFR deck



Floating Suction under Alu IFR dek

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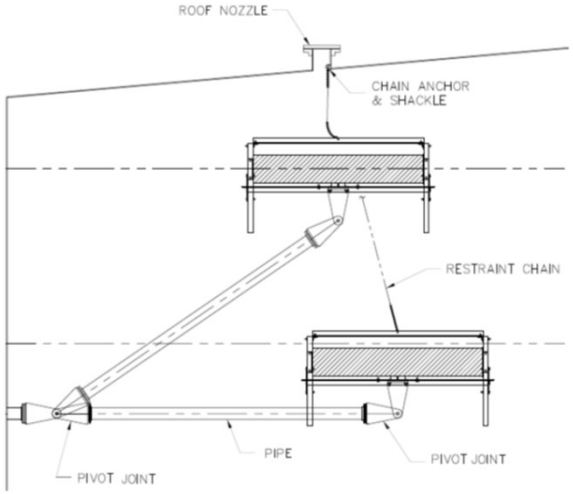
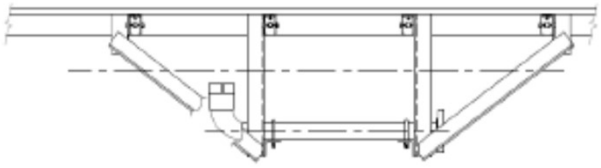
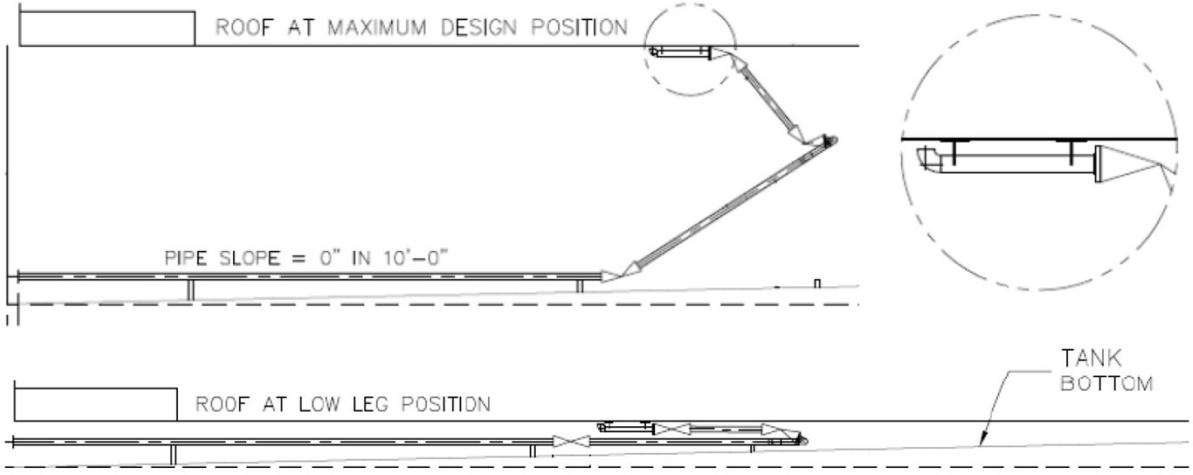
Oil Skimmer

- Principle







Oil Skimmer with floats

Articulated piping below deck

Oil Skimmer Inlet below deck

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Emissions Control / Devices

- Roof Leg Support - Seals
- Gauge Pole - Seals
- Inflatable Pontoon Balloon

Roof Leg Support Seals

Gauge Pole Seals

Inflatable Pontoon Balloon

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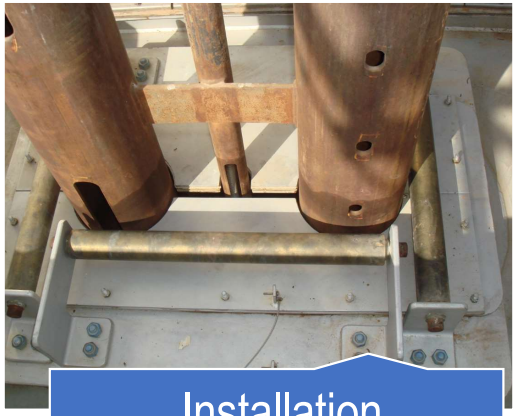
Emissions Control / Gauge Pole Pipe Cover

- Assembly



Installation Step

by

Step

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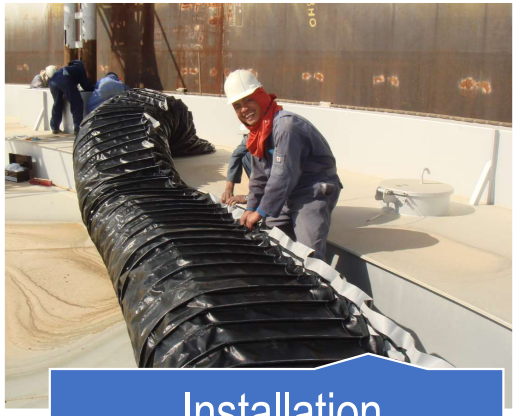
Emissions Control / Gauge Pole Pipe Cover

- Assembly



Installation Step

by

Step

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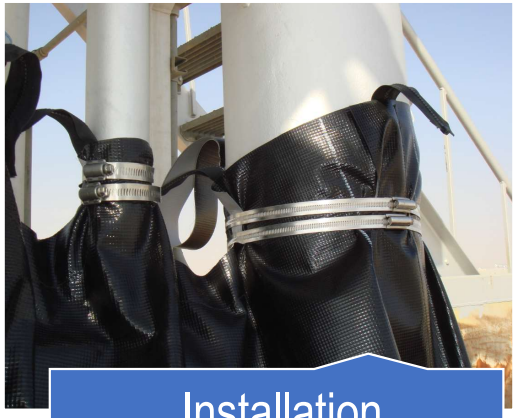
Emissions Control / Gauge Pole Pipe Cover

- Assembly



Installation Step

by

Step

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Emissions Control / Gauge Pole Pipe Cover

- Assembly

Installation Step

by

Step

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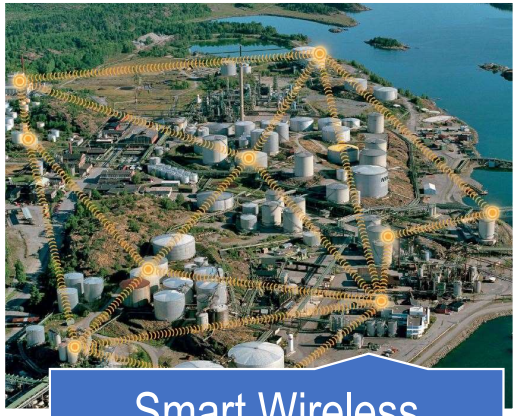
Rim Vents

- PRV Rim Vent
- PVRV Rim Vent
- Smart Wireless Solutions

PRV Rim Vent

PVRV Rim Vent



Smart Wireless Solutions

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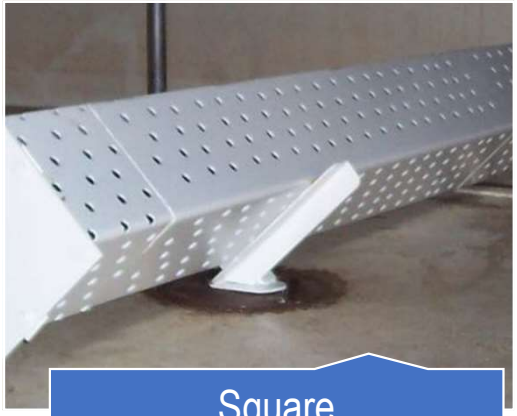
Difusers

- Liquid Diffusers
- Gas Diffusers

Gas Diffuser

Liquid Diffuser



Square
Perforated Plate

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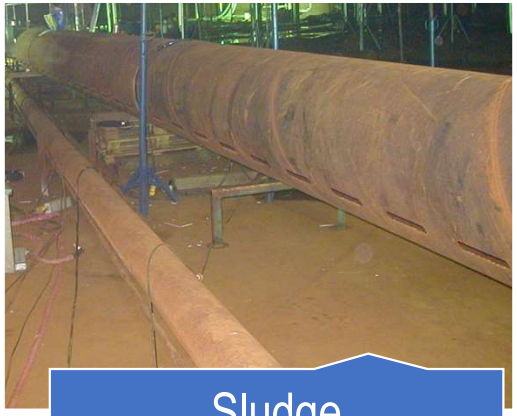
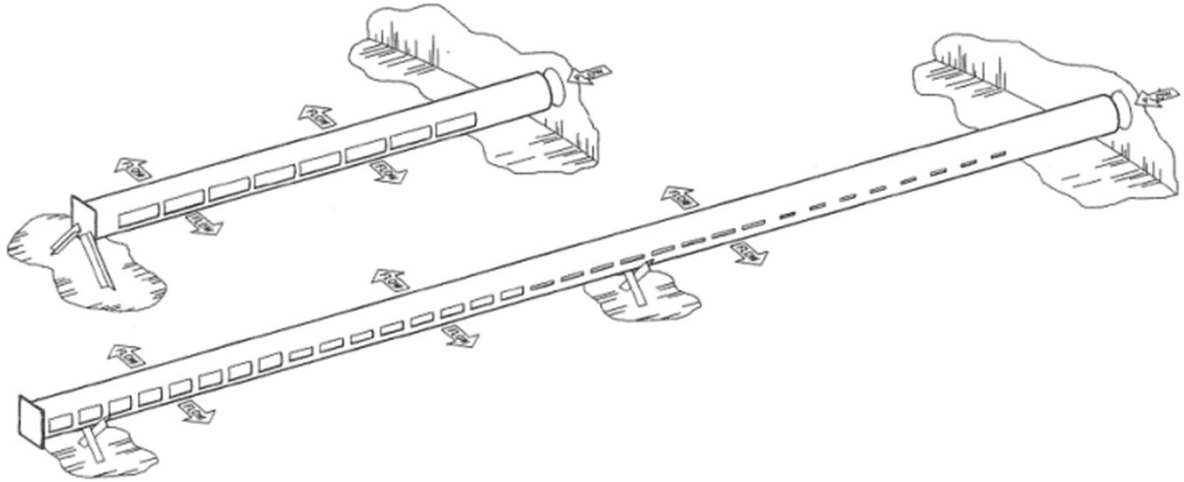
Diffusers

- Sludge (Gas) Diffusers



Sludge Diffusers



Technical Detail
-

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MAX PROJECTS
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Common service Offerings

PUMPS	MECHANICAL SEALS	ELECTRO MOTORS	OTHER SUPPLIES
Specialised in fast delivery of pumps and pump parts with over 90% coverage of brands	Extensive experience in trade, engineering and repair of mechanical seals	Offering a full budget range of electro motors from a large variety of brands	Offering a full range of technical support
-Trade -Engineering -Repair	-Trade -Engineering -Repair	-Trade -Engineering	

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Pump Engineering

PROJECTS

- Independent advisory on pump installations
- Calculation and selection of pump installations

Options
- Frequence driverEngineering
- Base plates
- Sealing systems

Offshore High Voltage Sub Station Building and engineering of (pump) skids

Retrofitting of Diesel Boosting Pumps, Transfer Pumps, Closed drain Pumps

Upgrading platform supply for Vessels to comply with latest standards

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Pump & Parts

In-line centrifugal pumps

End suction pumps

Eccentric screw pumps

2 & 3 spindle pumps

Gear pumps

Multistage pumps

Diaphragm pumps

Other pump types

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Pump & Part Brands

DEALERSHIPS

- Garbarino
- Seim
- Fluiten
- Xylem Lowara
- Someflu
- MTH Pumps
- Jurop
- Travaini
- Thistlebond
- GTO High pressure pumps
- System one
- K-purnp (Begemann)
- Simsite
- Flex-a-seal
- Depa Diaphragm pumps
- Tru- Flo

ORIGINAL PARTS

- Stork
- Thune Eureka
- Kral
- Leistritz
- Calpeda
- Blagdon
- Speck
- Sandpiper
- Desmi
- Versa-matic
- Borger
- Wilden
- Azcue
- Itur
- Guinard
- Grundfos
- Moineau
- Bryne Mek
- Debem
- Depa
- Yamada
- KSB
- Zeilfelder
- Johnson pump
- Duivelaar pompen
- JMW
- Hydroster
- Allweiler
- Seepex

ALTERNATIVE

- Hamworthy
- Allweiler
- Shinko
- Taiko Kikai
- Teikoku
- Heishin
- Naniwa
- Shin Shin
- Ishii
- Saskura
- Seepex
- Guinard
- Thune Eureka
- Merser
- Iron
- Imo
- Gothia
- Thermome-ccanica

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Pump Repairs

High quality modern and well equipped repair facility (14.000 m2)

Testing facility with pressure up to 150 bar with capacity of 10.000 m3/hr

Each reconditioned pump is pressure tested and comes with pump-report

All types and brands centrifugal (Split case, multi-stage etc.)

All types and brands of positive displacement pumps (gear-, lobe-, screw- and mono pumps)

All brands vacuum pumps
All brands can be repaired

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Mechanical Seals

PROJECTS

- Independent advisory on mechanical seal solutions
- Calculation and selection of mechanical seal

Options
- Sealing systems (single / double)
- Variety of Material selection
- Customer specific solutions

Mechanical seal design for sealing range from 55 to 260 mm

Mechanical seal design for bitumen pumps up to 280 °C

Main shaft propellors from 40 to 300 mm

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Mechanical Seals & Parts

Seals with ATEX and API

Sealing systems

Range of Brands

Stock of Seals and Cartridge

Engineered Seals

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Mechanical Seals

- Sealing Service Department with state of the art equipment for seal repair and seal failure analyses
- All seals are tested after reconditioning and come with test report and certificate
- Customer consignment for complete seals and repair parts are possible
- Repair, modification and mounting of any type of seal

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Common service Offerings

- Vapour Recovery Units

Activated Carbon Filtration

Membrane Filtration

Regenerative Thermal Oxidizers

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Vapour Recovery Units

- DTL Vapour Recovery Units # high concentrations VOC vapour
- TRAC Vapour Recovery Units # low concentration VOC vapour
- VOC Vapour Abatement Systems # odorous components absorbtion

DTL
Vapour Recovery Units

TRAC
Vapour Recovery Units

VOC Vapour Abatement
Systems

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Common service Offerings

- Pipeline Filters # Horizontal en Vertical design
- Design Code ASME Sec.VIII.Div.1
- Wire Mesh – SS316 Perforated Sheet

Basic Design Principle

Accessories add-on Options

Filter Basket Options

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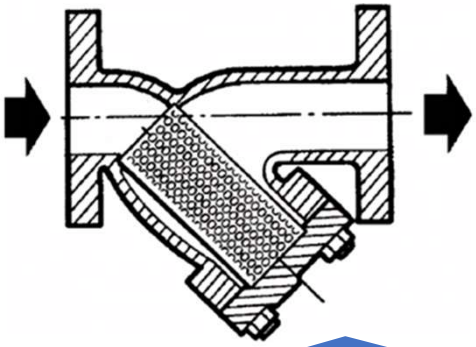
Pipeline Filter # Horizontal

- Side # filter loading



Top View Impression

Schematic

Prefab Unit

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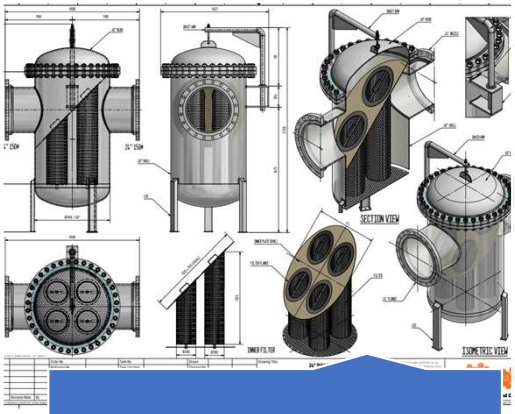
Pipeline Filter # Vertical

- Top # filter loading
- Bolted Cover with Davit Arm

Side View Impression



Schematic

Prefab Unit

AGDR Aluminium Geodesic Dome Roof

Tank 81,382 mtr

Wales – United Kingdom

PROJECTS

MRS-1 Primary Scissor Shoe Plate Seal with Wax Scrapers and combined with a MRS-20 Secondary Compression Plate Seal

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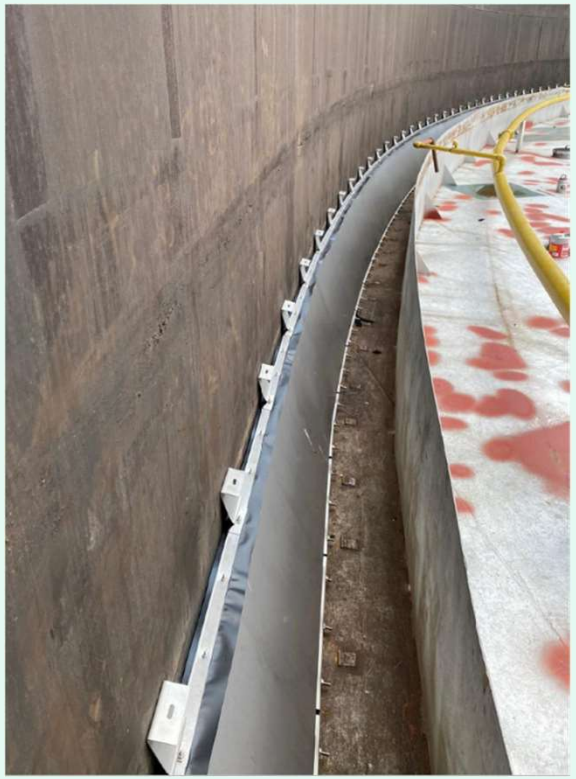
Tank ID 64,000 mtr

Ecuador

PROJECTS

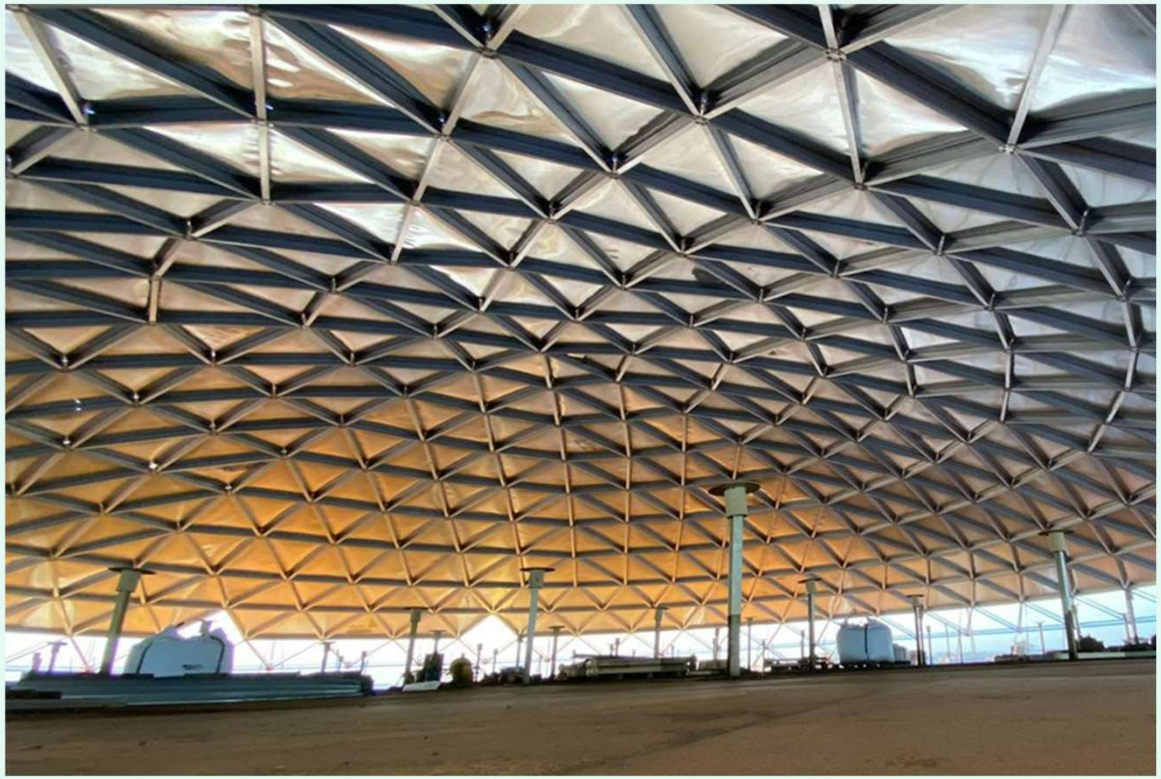


AGDR Aluminium Geodesic Dome Roof with walkway

Tank 67,066 mtr

The Netherlands

PROJECTS



IFRT-MSP-A Aluminium

Skin & Pontoon Internal Floating Roof

with Double Wiper Seal and Foam Dam

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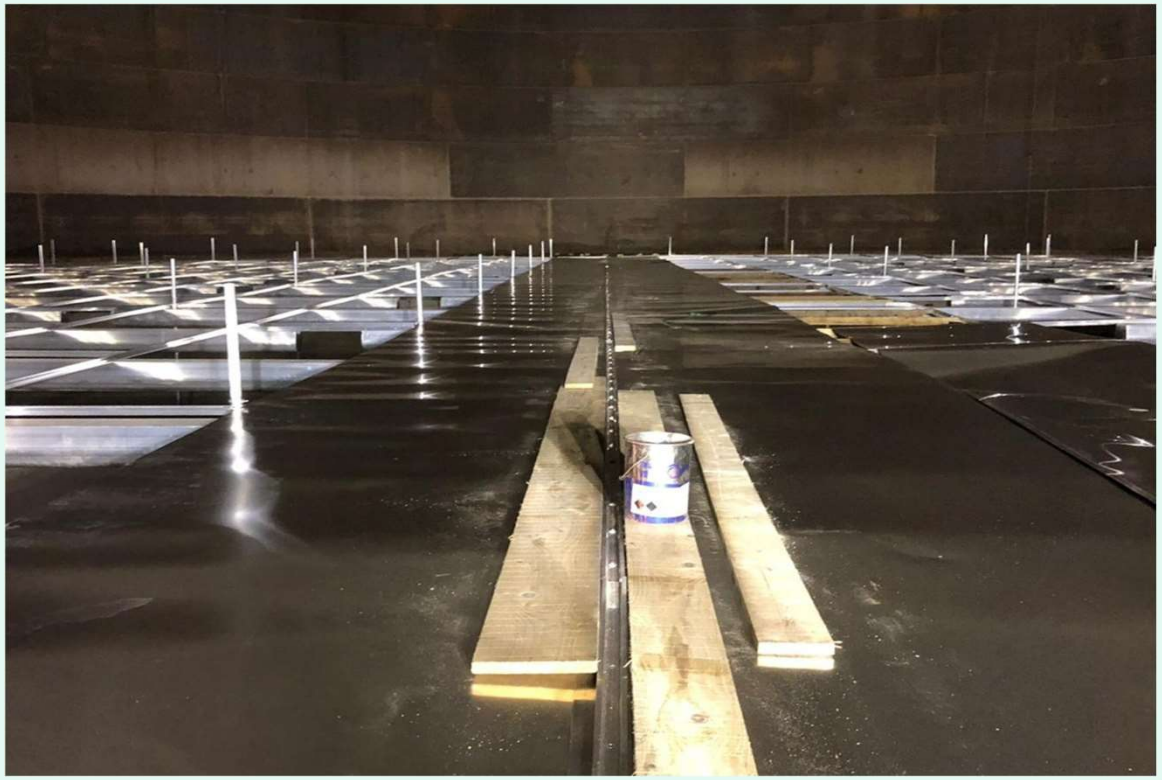


Tank ID 42,670 mtr

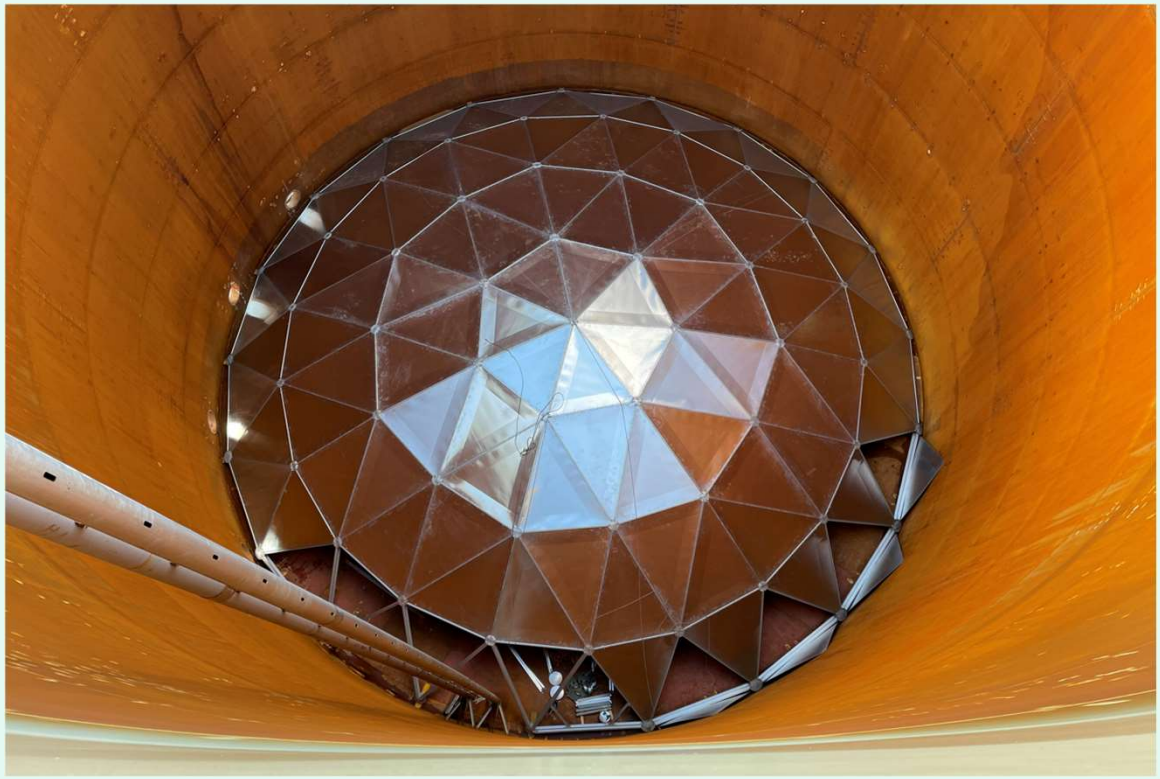
Zagreb, Croatia

PROJECTS

AGDR Aluminium Geodesic Dome Roof with walkway

Tank 29,000 mtr

The Netherlands



PROJECTS

MRS-3 Primary Spring Plate Shoe Seal w.
Drop Down Bracket and combined with
MRS-20 Secondary Compression Plate Seal

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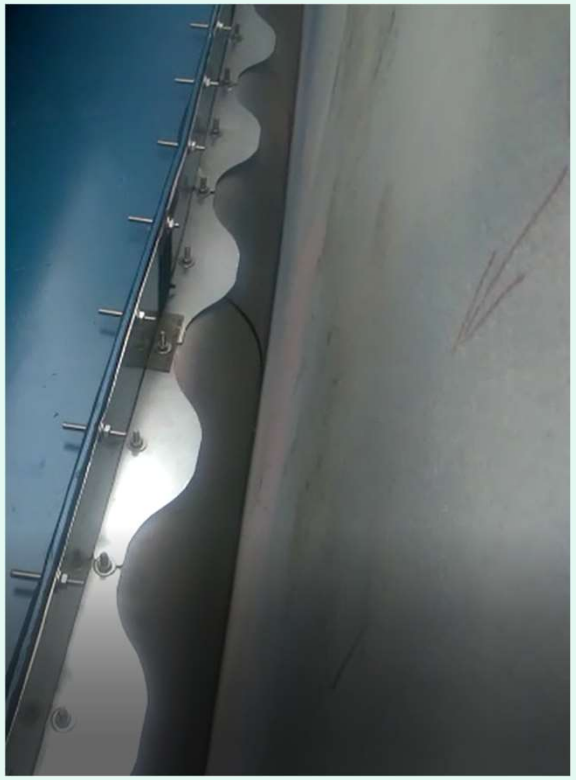
Tank ID 73,152 mtr
Colombia

PROJECTS



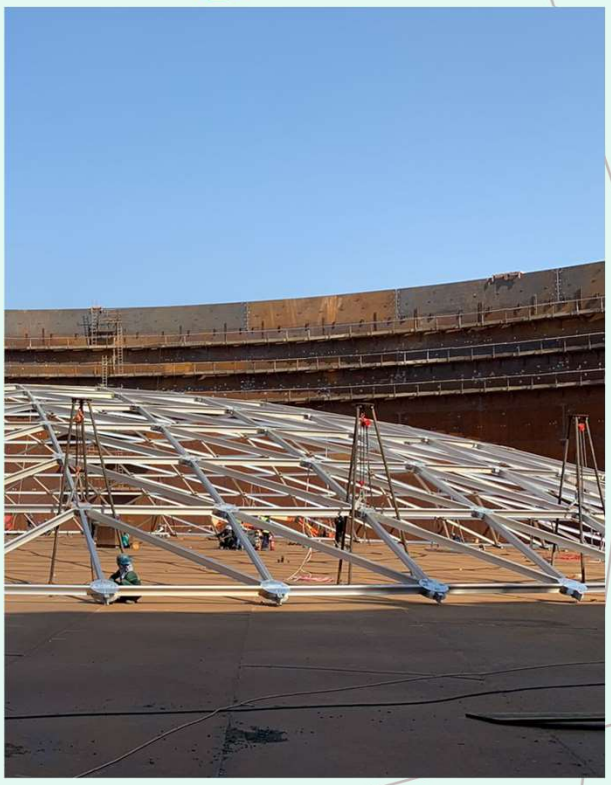
AGDR Aluminium Geodesic Dome Roof

with walkway

Tank 106,000 mtr

Saudi Arabia

PROJECTS

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Progresive technologies for the ground tank farm

In Iraq

October 2024

MAXWELL

Gerhard Rijsdijk

THANKS

Gerhard Rijsdijk - Chief Executive Officer

C: +31 6 2033 2554

E: gerhard@maxwelltanks.com


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