

SPECIFICATIE

SPECIFICATIE MEMBRANA SI DOM ALUMINIU

Beneficiar : **CONPET S.A.**

Cod document : **A646U-Sp**

Cod proiect : **A 646**

Faza : **DDE**

Revizie: **Rev 0**

Denumire proiect: **CONSTRUCTIE REZERVOARE PENTRU TITEI (V=2.500 m³)
STATIA DE POMPARE MORENI DAMBOVITA**

Întocmit: **Ing.A Zamfir**

Verificat: **Ing. M.Tanase**

Aprobat: **Ing. A.Ionescu**

INTERNAL ALUMINIU FLOATING ROOF DATA SHEET

Tank owner : Conpet S.A. **Tank location :** city: Moreni-Dambovita , country: Romania

Tank number : **Tank diameter :** 19100mm **Tank height :** 10500mm

1. Stored product : Crude Oil , density: 889kg/mc **Design S.G. :**(default 0.7)

2. Stored product temperature : ambient.

3. COLUMNS **Central** **1st ring** **2nd ring** **3rd ring**
 Yes/No.....radius.....radius.....radius

Number of roof columns : by provider

Roof column diameter / type: by provider

4. Radar gauging system : 1xDN300; 1xDN200; 1xDN50; 1xDN50

5. Shell to gauge pole distance : 1x1500mm; 1x1500mm; 1 x900mm; 1 x900mm

6. Inlet flow rate :mc/h **Inlet nozzle diameter :** 6 inch.

7. Outlet flow rate :mc/h. **Outlet nozzle diameter :** 8 inch.

8. Minimum thickness : 6 centimeters.

IFR will be equipped:

9. Two Position Top Adjustable Legs;

10. Teflon® Insulating Pads for Each Leg: yes

11. IFR Manway combination Pressure / Vacuum Relief Vent;

12. Sampling Well and Funnel;

13. Anti-Rotation Systems with stainless steel cable;

14. Drains: by provider

15. Stainless Steel Grounding Cables;

16. Perimeter Seal for Crude Oil (primary mechanical seal +secondary sealing);

- 17. Internal Ladder Well and Seal;**
- 18. Aluminum Landing Pad for Portable Ladder;**
- 19. Floating Suction Line and / or Floating Suction Track;**
- 20. Gauge Pole (aluminum);**
- 21. Tank Roof Mounted Air Scoop;**
- 22. Tank Shell Mounted Overflow / Vent;**
- 23. Approval: ATEX ;**
- 24. Circular foam dam .**
- 25. Pontoon type : stainless steel**

(*) Specificatie pentru membrana pentru 1(un) rezervor, se vor achizitiona 2 (doua), pentru rezervorul R1 si R2.

Specification for 1 (one) tank membrane, you will purchase 2 (two) for R1 and R2.

ALUMINIUM DOME INPUT DATA SHEET *

Tank owner : Conpet S.A. **Tank location :** city: Moreni Dambovita , country: Romania

Tank number :

- 1. Stored product :** Crude Oil
- 2. Stored product temperature:** Ambient
- 3. Tank diameter :** 19100mm
- 4. Tank height :** 10500mm
- 5. Dome Cover Type required? Free vent :** yes
- 6. Wind girder :** yes
- 7. IFR :** yes

DESIGN CONDITION

- 1. Snow load :** 2,5kPa
- 2. Live load :** 1,0 Kpa
- 3. Wind speed:** 160km/h
- 4. Seismic protection zone :** $a_g = 0.20g$, $T_c = 1.6s$.
- 5. Self supporting structure :** Sliding

ACCESORIES

- 1. Required number of Skylights :** 4
- 2. Gravity vent required :** yes
- 3. Walkway and platforms to the dome :** yes

- 4. Center platform required : yes**
- 5. Manhole with dip hatch : yes**
- 6. Number of penetration pipes : 4**
- 7. Available location for assembly : by provider.**
- 8. Anchorage points on the dome for maintenance : yes**
- 9. Dome acces ladder : yes**
- 10. Side platform acces ladder: yes**
- 11. Inspection hatch assembly : min.4**

(*) Specificatie pentru membrana pentru 1(un) rezervor, se vor achizitiona 2 (doua), pentru rezervorul R1 si R2.

Specification for 1 (one) tank membrane, you will purchase 2 (two) for R1 and R2.

NOTE

- API Standard 650 Welded Steel Tanks for Oil Storage, Appendix H ;
- API Standard 653 Tank Inspection, Repair, Alteration, and Reconstruction;
- API Standard 2000 Venting Atmospheric and Low-Pressure Storage Tanks;
- NFPA 11 Low Expansion Foam;
- NFPA 30 Flammable and Combustible Liquids Code;
- CCME Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks;
- P118/2-2013 Normativ privind securitatea la incendiu a construcțiilor;
- SR-EN-14015 Proiectarea si fabricarea rezervoarelor de otel sudate supraterane cilindrice verticale
- EEMUA 159;
- ATEX standards;
- CR1-1-4/2012 Cod de proiectare evaluarea actiunii vantului asupra constructiilor;
- P 100/3-2008 Cod de proiectare seismică- Partea III-Prevederi de proiectare pentru evaluarea seismică a clădirilor existente.