

# Armor-Clad™



Armor-Clad Flexible Pipe is designed for continuous service (both externally and internally) in a wide range of pH solutions and chemicals. It features a single coil repeating lay pattern for ease of installation and high chemical resistance for maximum service life. Armor-Clad is a reliable and efficient drain solution. Mesa Armor-Clad Gold (spec 83-88944) is designed to provide 100% aromatic compatibility.

Compression sealed, full-flow end fittings provide non-leaking couplings at each end of the assembly.

Smooth internal fluidway for low resistance--no corrugation to trap sediment or cause flow restricting turbulence.

Armor-Clad has a negative buoyancy in all storage products including light chemicals and heavy crude oil.

150 lb. ANSI forged steel raised face, weld-on flanges.

Stainless steel armor provides external protection and very low coefficient of friction.



**ISO**  
 9001:2000  
 certified

Armor-Clad connects to the sump nozzle in one continuous length regardless of the size of the tank. Rigid piping may also be used depending on tank design.



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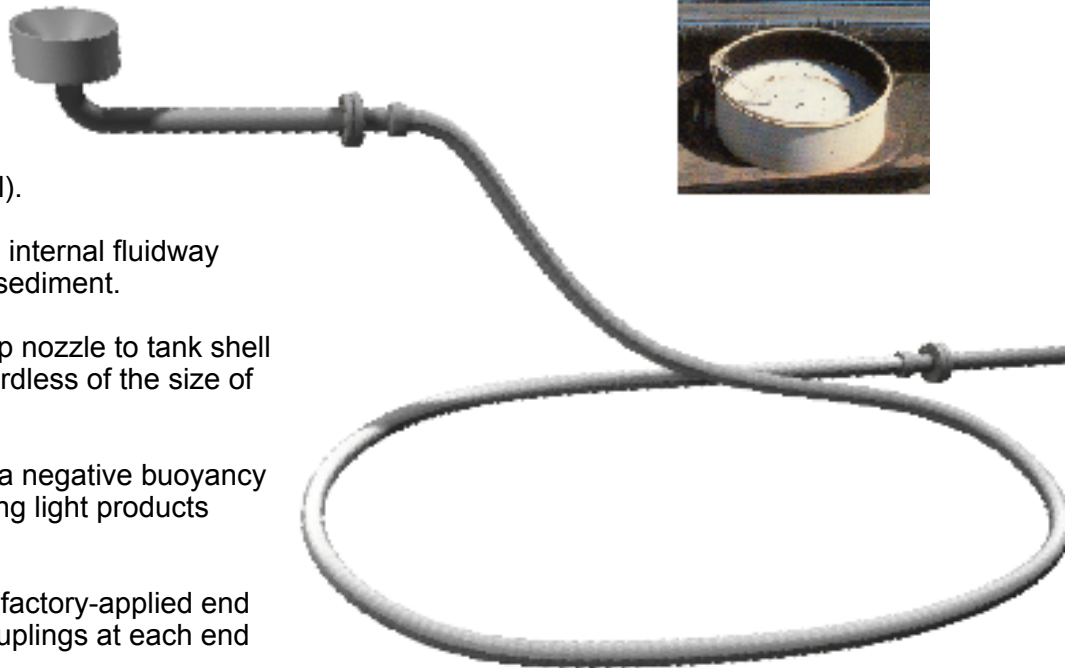
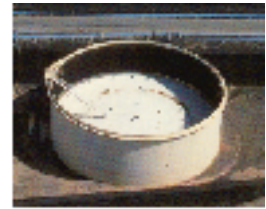


MR-AC-P-06-D

# Armor-Clad™

Mesa Armor-Clad Roof Drain systems ensure the proper drainage of water from the Aboveground Storage Tank's floating roof. Mesa's Roof Drain systems are designed, tested and manufactured to customer tank requirements to offer the following features:

- Armor-Clad Roof Drains are installed to form a single coil repeating lay pattern (360° coil).
- Armor-Clad features a smooth internal fluidway without corrugation that traps sediment.
- The Roof Drain connects sump nozzle to tank shell in one continuous length regardless of the size of the tank (without rigid piping).
- Armor-Clad Flexible Pipe has a negative buoyancy in all storage products, including light products and heavy crude oil.
- Compression sealed, full-flow factory-applied end fittings provide non-leaking couplings at each end of the assembly.
- Installation drawings are included. Installation supervision is available in the continental USA.
- System ensures less maintenance, less product loss, reduced shutdowns and maximum service life.



**PIPE LENGTH CALCULATION**  
 Let  $R$  = horizontal distance (free space) between rigid pipe flanges, and  $H$  = tank height.  
 If  $R < H$ , then  $L = H - R + 1.57 R$   
 If  $R > H$ , then  $L = R - H + 1.57 H$

**ISO**  
9001:2000  
certified

I.D.	WEIGHT PER FOOT	MINIMUM WORKING BEND RADIUS	MAXIMUM WORKING PRESSURE	VACUUM RATING INCHES HG.	STANDARD TEMP. RANGE
3 in	5.5 lb	48 in	150 psi	29	- 40°F to 180°F
4 in	8.4 lb	54 in	150 psi	29	- 40 F to 180 F
6 in	20 lb	54 in	150 psi	29	- 40°F to 180°F
8 in	32 lb	60 in	100 psi	29	- 40°F to 180°F

Consult factory for Minimum Shipping Bend Radius.  
 All assemblies tested at 100 P.S.I.G. for one hour and certified (unless higher test pressure is requested by customer).  
 Custom specifications are available for higher temperature ranges.



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