



# Sewer Air Relief Vault Submittal Form

Job or Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Engineer: \_\_\_\_\_

Contractor: \_\_\_\_\_

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Purchase Order Number: \_\_\_\_\_ Date: \_\_\_\_\_

**General:** This specification designates the requirements for the Sewer Air Relief Vault (vault pit) including internal pipe, fittings, valves and activated carbon.

**External Shell:** Shall be constructed of high density polyethylene 72.00" Spirolite Pipe having a cell classification of 445574C with a UV stabilizer of C. Vault end walls shall be constructed of 1 ½" thick high density flat stock. Internal and external seams are heat welded using high density polyethylene welding rods having a cell classification of 445574C. The vault shall have a 30" manhole with ladder. The manhole frame and lid is H20 Load Rated with watertight design and made of Class 35B gray iron and the lid is secured with (4) 5/8" stainless steel bolts.

**Internal Bracing:** (When Required) Shall be spaced at a maximum of 30" and constructed of a minimum of 1" thick high density polyethylene flat stock heat welded to the external shell with high density polyethylene welding rods.

**Internal Piping:** Shall be constructed of GSC Energy Pro PE 3608/4710 High Density Polyethylene DR 11 pipe, AWWA approved, having a cell classification of 445574C with a UV stabilizer of C. All joints shall be heat fused. The entire piping system is to be tested using 120 psi.

**Fittings:**

- Branch and Service Saddles:* Shall be molded out of high density polyethylene resins in accordance with the requirements of ASTM D-3261.
- A.R.I Valve:* Shall be D-025 combination Air valve for wastewater.
- Socket Fusion:* Shall be molded out of high density polyethylene resins in accordance with the requirements of ASTM D-2683.
- Butt Fusion:* Shall be molded out of high density polyethylene resins in accordance with the requirements of ASTM D-3261.
- Stainless Steel:* Transition fittings shall to be conform to ANSI B1.20.1 requirements. Ball Valves shall be 316 SS with lever handle.
- Activated Carbon:* Shall be granular Darco H2S in accordance with ASTM D-6646

**Ladder:** Shall be galvanized steel and OSHA approved. RoHS 3 (2015/863/EU) compliant