

SPECIFICATION FOR PARSON ODOREATER MANHOLE INSERTS

1. SCOPE

- 1.1 Contractor shall furnish PARSON ODOREATER MANHOLE INSERTS as called for in the specification.
- 1.2 The PARSON ODOREATER MANHOLE INSERT shall effectively reduce or prevent odors from being emitted through manhole covers.
- 1.3 PARSON ODOREATER MANHOLE INSERTS shall be manufactured by Parson Environmental Products, Inc., P.O. Box 4474, Reading, PA 19606, 800-356-9023.

2. MATERIAL & DESIGN

- 2.1 The PARSON ODOREATER MANHOLE INSERT and related components shall be manufactured from corrosion proof material suitable for atmospheres and conditions commonly found in wastewater collection systems.
- 2.2 The PARSON ODOREATER MANHOLE INSERT body shall be manufactured from High Density, high molecular weight Polyethylene Copolymer material that meets ASTM Specification Designation D-1248 Class A, Category 5, Type III. This material shall have superior stress crack resistance, combined with high impact strength. The carbon canister shall be manufactured from PVC and corrosion resistant components.
- 2.3 The PARSON ODOREATER MANHOLE INSERT shall be manufactured to dimensions provided by the purchaser to allow easy installation within the manhole frame.
- 2.4 The carbon shall be activated impregnated carbon and be non-hazardous according to the definition for "health hazard" and "physical hazard" provided in the OSHA Hazard Communication Law (29 CFR Part 1910).
- 2.5 The PARSON ODOREATER MANHOLE INSERT shall have a minimum impact brittleness temperature of -180°F in accordance with ASTM D 746-70.
- 2.6 Softening temperature shall be 254°F, meeting all requirements of ASTM D 1525-70.
- 2.7 The PARSON ODOREATER MANHOLE INSERT shall have a tensile strength of 3800 psi and an elongation factor of 800%, meeting all requirements of ASTM D 638-71A.
- 2.8 The thickness of the PARSON ODOREATER MANHOLE INSERT shall be a uniform 1/8".
- 2.9 The carbon canister shall be manufactured from PVC and corrosion resistant components.

3 MEASUREMENT

- 3.1 The PARSON ODOREATER MANHOLE INSERT shall be manufactured to fit the manhole frame rim upon which the manhole cover rests. Exact measurements shall be required from the purchaser.
- 3.2 Instructions and measuring diagrams will be made available to the purchaser, to insure a proper fit of the PARSON ODOREATER MANHOLE INSERT within the manhole frame.

4 INSTALLATION

- 4.1 Remove the manhole cover and clean the frame rim of all dirt and debris before placing the PARSON ODOREATER MANHOLE INSERT upon the rim.
- 4.2 Place the PARSON ODOREATER MANHOLE INSERT, without the canister, onto the manhole frame rim.
- 4.3 Install the carbon canister through the hole in the insert.
- 4.4 Remove the canister lid and pour the activated carbon into the canister.
- 4.5 Replace canister lid.
- 4.6 The manhole cover is replaced as before, and the installation is complete.

5 REMOVAL AND/OR REPLACEMENT

- 5.1 Remove manhole cover.
- 5.2 Remove canister lid from canister body.
- 5.3 Grab stainless steel bucket type handle within canister.
- 5.4 Lift canister from insert body. (Carbon may be removed from canister before the canister is lifted from the insert body.)
- 5.5 Remove manhole insert body, if necessary.
- 5.6 Dispose of spent carbon as non-hazardous waste.
- 5.7 Reinstall canister through hole in the insert.
- 5.8 Refill canister with new carbon.
- 5.9 Replace canister lid.
- 5.10 Replace manhole cover.

6 ACCEPTANCE

- 6.1 Completed installations must meet engineer's approval.