

HDPE RAINSTOPPER SPECIFICATIONS

➡ **INTENT:** To provide a system for eliminating inflow to municipal sanitary sewer systems while reducing the infiltration of street-level contaminants, controlling the escape of undesirable sewer odors, and minimizing traffic-related manhole noise and cover displacement.

① **SCOPE:** Under this item, the contractor shall supply and install an HDPE Rainstopper manhole insert in accordance with the manufacturer's recommendations, contract drawings, and the requirements specified herein.

② MATERIALS AND DESIGN

2.1 GENERAL

The Rainstopper insert and all associated components shall be manufactured from materials resistant to corrosion caused by atmospheres containing hydrogen sulfide, dilute sulfuric acid, sewer gases, road oils, and other conditions commonly encountered in municipal wastewater collection systems. Materials shall be selected to provide long-term service life and reliable performance in sanitary sewer environments.

2.2 PAN

The pan shall be manufactured from high-density polyethylene (HDPE).

For added strength and rigidity, each HDPE pan shall incorporate no fewer than three (3) reinforcing ribs formed into the bottom of the pan.

The pan depth and relief plug placement shall be designed so that the manhole cover does not come into contact with the relief plug during normal installation or removal of the cover.

2.3 NITRILE GAS RELIEF PLUG

The insert shall incorporate a Rainstopper Nitrile Gas Relief Plug designed to release at a pressure of 0.5 to 1.5 PSI and have a water leak-down rate not exceeding 5 gallons per 24 hours.

The relief plug shall be installed by the manufacturer in a factory-prepared threaded opening in the insert.

The relief plug shall be manufactured from nitrile material and shall contain no metallic components subject to corrosion from hydrogen sulfide, dilute sulfuric acid, sewer gases, or other conditions commonly associated with wastewater collection systems.

2.4 HANDLE

The insert shall be equipped with a nylon web handle installed on the body of the pan and attached using a #6 high-grade stainless-steel rivet.

The handle terminal and eye shall be stainless steel.

The handle shall be installed in a manner that does not interfere with the installation or removal of the manhole cover.

③ INSTALLATION

The manhole frame rim shall be cleaned of all dirt, debris, rust scale, and other foreign materials prior to installation. The Rainstopper insert shall be fully seated around the manhole frame rim to minimize water seepage between the insert and frame.

④ MANUFACTURER

The manhole insert shall be manufactured by:
Southwestern Packing and Seals Company, Inc. DBA Rainstoppers
6905 Westport Avenue
Shreveport, LA 71129
Phone: (318) 687-4330
Email: info@rainstoppercompany.com
Website: www.rainstoppercompany.com

⑤ AMERICAN MADE / BABA COMPLIANCE

Rainstopper inserts are manufactured in the United States and comply with Build America, Buy America (BABA) requirements applicable to federally funded infrastructure projects.

⑥ LIMITED WARRANTY

Rainstopper provides a limited fifteen-year replacement warranty.

If an insert is found to be defective in materials or workmanship within fifteen (15) years of purchase, Rainstopper will replace the insert at no charge, provided the product has not been damaged through mishandling, accident, improper installation, or abnormal use.

This warranty excludes replacement of handle and relief plug components.