



EGSW has a full line of manhole insert dishes including Polyethylene, polycarbonate and stainless steel. These products are designed to significantly abate rainfall from entering the sanitary sewer system through the manhole cover and upper frame area. Product selection should be based on the intended placement of the product and diameter of the frame. For questions regarding proper placement of each dish please contact your local representative.

Inflow Defender Max®



Inflow Defender *Max*™ inflow dish was designed for high traffic areas and greater structural integrity needed for larger diameter ring sizes. The dish is molded from a polycarbonate material at a uniform 250 Mil minimum thickness and has ribbed members built into the bowl area for increased strength and durability that is needed for large diameter rings. In addition the Inflow Defender *Max*™ is designed with a replaceable lift strap made from a high quality woven polypropylene material that does not degrade under standing water. The Inflow Defender *Max*™ dish is designed for ring sizes up to 36” inches in diameters and each manhole should be accurately measured before ordering.

Features

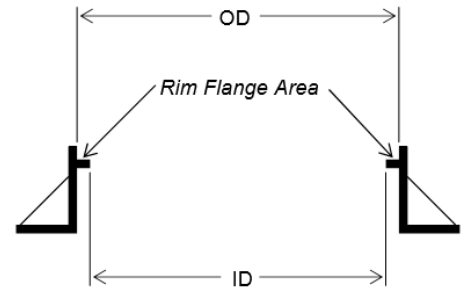
- Fully assembled – no tools required
- Eliminates excess flow
- Filters out abrasive debris
- Molded structural ribs
- High-tech polycarbonate

Benefits

- Reduces maintenance cost
- Eliminates motor run time spikes, reduces treatment cost
- Reduces maintenance cost
- Prevents dish from falling into manhole
- Outstanding impact strength, superior dimensional stability
- Reduces heat and cold

Installation Procedures:

1. Remove the manhole cover.
2. Clean the manhole rim flange area of dirt for accurate measurement.
3. Locate the manhole frame Inside Diameter (ID). Measure ID with a minimum of two dimensional measurements for accuracy. Record the smallest measurement to the nearest 1/8”.
4. Locate the manhole frame Outside Diameter (OD). Measure OD with a minimum of two dimensional measurements for accuracy. Record the smallest measurement to the nearest 1/8”.
5. Install flow dish and replace manhole cover.



Manhole Frame — Cross Section (Detail lines have been omitted for clarity)

LIMITED WARRANTY NOTICE: Every reasonable effort is made to apply USSI exacting standards, both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and we will replace or at our election, refund the purchase price of any products proved to be defective. Satisfactory results depend not only on quality products but also on many factors beyond our control. Therefore, except for such replacement or refund, USSI makes NO WARRANTY OR GUARANTEE EXPRESSED OR IMPLIED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and USSI shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within 1 year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.

This information and all other further technical advice are based on USSI’s present knowledge and experience. However, USSI assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights. In particular, USSI disclaims all WARRANTIES WHETHER EXPRESS OR IMPLIED, WARRANTIES OF FITNESS OR A PARTICULAR PURPOSE OR MERCHANTABILITY. USSI SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. USSI reserves the right to make any changes according to technical progress or further developments. It is the customer’s responsibility and obligation to carefully inspect and test any incoming goods. Performance of the products described herein should be verified by testing and carried out only by qualified experts. It is the sole responsibility of the customer to carry out and arrange for such testing.

For professional use only. Not for sale to or use by the general public. See Inflow Defender® Specification Sheet for complete inflow dish technical data.



(TPO) is designed for thermoformed exterior or interior applications that require low-temperature toughness and dimensional stability. This extrusion-grade material exhibits enhanced melt strength for a wide thermoforming processing window.

Inflow Dish Body

The inflow dish body shall be manufactured from high density TPO material, comply with UL Standard, and meet all associated ASTM specifications related to TPO. Dish thickness shall be a uniform 1/8” thick or greater. Inflow dish shall have a minimum depth at the 90° vertical point of 3.8 inches and a minimum depth of five inches at the center point. Inflow dish body to be fabricated with molded ribbing members in bowl area for structural integrity. Inflow Dish to have smooth radius molded edges for additional strength and prevention of cracking. Inflow dish to have manufacture date (Month & Year) permanently molded in dish body for future warranty identification.

Gasket Seal

The gasket seal shall be made of closed cell neoprene material and have a pressure sensitive adhesive on one side for adhering to inflow dish body seating rim. Gasket to be 1/2” wide and shall have a minimum thickness of 1/2”.

Lift Strap

The Lift Strap shall be made from a woven polypropylene material, securely adhered to the inflow dish body interior, with a corrosion resistant fastener assembly.

PRODUCT CHARACTERISTICS	
Status	Commercial: Active
Test Method used	ISO
Availability	North America
Processing Method	Extrusion Thermoforming
Features	Good Dimensional Stability, Good Melt Strength, Low Temperature Toughness
Typical Customer Applications	Panels & Profiles, Exterior Applications, Bumpers, Industrial

TYPICAL PROPERTIES		
Physical	Method	Value Unit
Density	ISO 1183	1.12 g/cm3
Melt flow rate (MFR) (230 °C / 2.16 kg)	ISO 1133	0.60 g/10 min

Mechanical	Method	Value Unit
Tensile Stress at Yield (50 mm/min) Note: 150x10x4 mm specimen	ISO 527-1, -2	21.0 MPa
Flexural modulus (2 mm/min) Note: 80x10x4 mm specimen	ISO 178	2100 MPa