Flow In Flow™

AN ECONOMICAL SOLUTION TO A COSTLY PROBLEM.

INTRODUCTION

One of the most important problems facing the 21st Century is water conservation. The water and sewer industry will be called upon to find new solutions to old problems to insure that water is treated and used efficiently.

During rainy weather, an average manhole contributes from 3,000 to 12,000 gallons per day of rain water, to the treatment systems.

The NO FLOW INFLOW dish is made to your requirements from virtually indestructible material to offer a simple to install, long lasting product that eliminates sheet flow of rain water into the sanitary sewer system. Added advantages are the elimination of debris and dirt and reduction of manhole odors and manhole cover rattle noise.

BENEFITS

- 5 year warranty on the body of the in flow dish. (.150 Material Thickness)
- 10 year warranty on the body of the in flow dish. (.187 Material Thickness)
- Ventilation by valve or vent hole.
- Manufactured of ultra high density, high molecular weight polyethylene.
- MARLEX HXM 50100 . . . extra high molecular weight Hexene copolymer

SPECIFICATIONS

- The dish is made of ultra high density polyethylene copolymer material that meets ASTM specifications designation D1248, Class A, Category 5, Type 111 with a minimum impact brittleness temperature of -180°F. The thickness shall be uniform 1/8" or greater. This material is corrosion proof from all gasses associated with waste water collection systems.
- The lift strap is made of a 1 inch wide woven polypropylene web and is attached to the bowl of the dish by a wide head stainless steel 3/16" rivet and a stainless steel 3/4" backup washer. All cut edges are seared to insure against raveling.

- Ventilation is provided by a vent hole and/or a valve located on the side of the bowl. The hole or valve allows a maximum release of 5 gallons of water per 24 hours and is not effected by debris that might collect in the bottom of the dish. Sewer gas is vented at one P.S.I. or less.

- The gasket is made of closed cell neoprene and is attached by a pressure sensitive adhesive to the weight bearing surface of the dish.

MARLEX HXM 50100 . . . EXTRA HIGH MOLECULAR WEIGHT HEXENE COPOLYMER

CUSTOMER BENEFITS

- An excellent balance of stress cracking resistance, stiffness and melt strength make this resin an ideal candidate for large blow molded items and thermoformed parts.

This resin has . . . • *Good melt Strength*

. . . and produces molded parts with . . . • *Excellent stress cracking resistance* • *Good Rigidity* • *Excellent impact strength even at low temperatures*

SUGGESTED APPLICATIONS

Blow Molded items such as . . . • *55-gallon shipping containers* • *Gasoline tanks* • *Agricultural chemical tanks*

. . . and thermoformed items such as . . . • *55-gallon shipping containers* • *Gasoline tanks* • *Agricultural chemical tanks* • *Pallets* • *Cattle Feeders* • *Large formed parts* • *Boats*

PROPERTIES

NOMINAL PHYSICAL PROPERTIES OF MARLEX HXM 50100

		ENGLISH		METRIC	
PROPERTY	**ASTM**	**UNITS**	**VALUE**	**UNITS**	**VALUE**
Density	D1505	lbs/ft^3	59.4	g/cc	0.950
ESCR, Condition A, F_{50}	D1693	h	800	h	800
Tensile Strength 2" (50.8mm) per min	D638 Type IV	psi	3800	MPa	26.1
Brittleness Temperature	D746	^oF	<-180	^oC	<-118

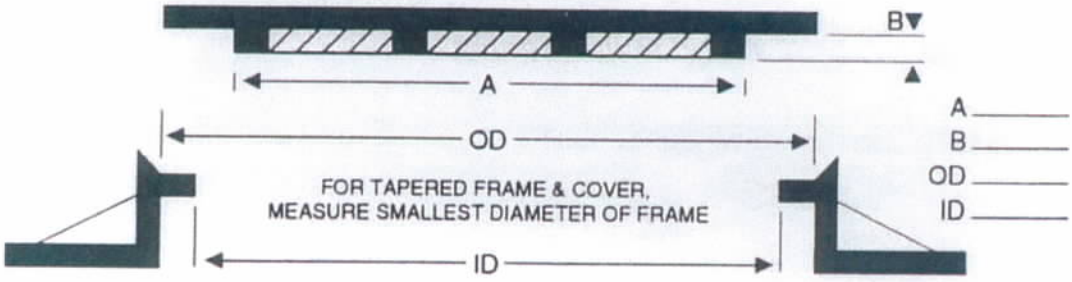
INSTALLATION

The manhole frame shall be cleaned of all dirt and debris before placing the manhole insert on the rim.

The manhole insert shall be fully seated around the manhole frame rim to prevent water from infiltrating between the cover and the manhole frame rim.

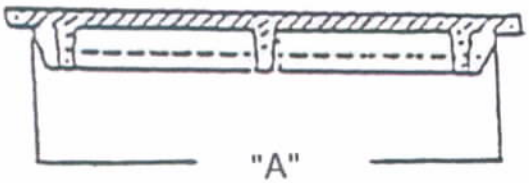
ORDERING

To insure proper fit, dishes are manufactured to specific measurements provided by the purchaser. These measurements are obtained according to the following diagrams.

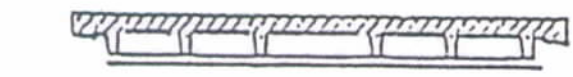


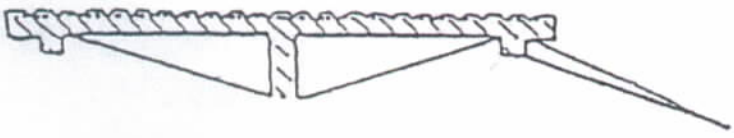
CHECK or CIRCLE the cover design (side view) for this manhole cover.

STYLE "B"



"A" Measurement is the diameter between these two points, (NOT THE OVERALL DIAMETER OF THE COVER)





STYLE "A"
(No "A" or "B" measurements)

"B" Measurement is found between these two points (NOT THE OVERALL THICKNESS OF THE COVER)