



# LECOTECH HDPE FLAP GATE

## HDPE FLAP GATE

LecoTech Flap Gate is made of exceptionally strong & tough High Density Polyethylene (HDPE) Pipe and Sheet. A small differential pressure on the back of the gate causes it to open automatically to allow discharge through levees, sewer lines or drainage conduits. When water on the face side of the gate rises above water on the back side, the gate closes automatically to prevent backflow.

Flap gates are equipped with flat-back seats for attaching to wall thimbles, headwalls, and existing pipe flanges. The seat or frame of the flap gate is attached to a wall or pipe flange and forms the opening through which water passes.



*Rectangle Wall-Mounted HDPE Flap Gate*



*Round Wall-Mounted HDPE Flap Gate*

## AVAILABLE DESIGN



### Mounting

Wall Mounted - Flange Mounted



### Shape

Square - Rectangular - Round



### Dimension

Available from 150mm to 3000mm

## APPLICATIONS

- Flood Control
- Municipal Projects
- Farm Levees
- Sewer Outfalls
- Industrial Waste Lines
- Water and Sewage Treatment Plants
- Tidal Drainage
- Irrigation Systems
- Pump Discharge Control

## ADVANTAGES

- Light Weight
- Easy Installation
- UV Protection
- Corrosion Proof
- High Temperature
- Chemical Resistance
- Maintenance Free



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## PRODUCT SPECIFICATION

### General Characteristic

	Value
Density	0.95 g/cm <sup>3</sup>
Melting Temperature	125-130 °C
Distortion Temperature	130-140 °C
Vicat-B Temperature	70 °C
Glass Transition Temperature	110 °C
Water Absorption	0 %

### Physical Characteristic Application Temperature

Thermal Conduction Coefficient at 20°C	-50 - +85 °C 0.43 W/mK
Linear Expansion Coefficient	150 - 300 10 <sup>3</sup> /K

### Mechanical Characteristic Tensile Strength

Elongation on Breaking	22 N/mm <sup>2</sup> 15 %
Elongation/Breaking ratio	>800 %
Bending Strength	10 - 40 N/mm <sup>2</sup>
Elasticity Modulus under Tension	150 - 800 N/mm <sup>2</sup>
Hardness	63 Shore-D
Ball Thrust Hardness	40 - 80 Mpa
Notched-Bar Impact test	12 KJ/m <sup>2</sup>

### Chemical Resistance

Organic Acid	resistant
Inorganic Acid	resistant
Oxidizing Acid	partially resistant
Bases	resistant
Alcohols	resistant
Ketones	resistant
Aliphatic Compounds	resistant
Aromatic Compounds	partially resistant
Trichloroethylene	partially resistant

## CONTACT INFORMATION



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