

FAT, OIL AND GREASE (FOG)

Eliminating treatment challenges through engineered systems.

Fat, oil and grease (FOG) management is an ever-growing concern for both solid waste facilities and wastewater treatment plant operators.

- When not disposed of properly, FOG builds up in the sewer system constricting flow, which can cause sewer back-ups into homes and overflow discharges onto streets.
- Sewer backups into homes create a health hazard as well as an unpleasant mess that can cost thousands of dollars to clean.
- In certain cities FOG can enter storm drains and flow directly into water bodies and onto beaches creating serious environmental and health conditions.

An engineered tank system with the proper fittings and ancillary equipment from Poly Processing can greatly simplify working with FOG.

Contact Us at 866-Poly-XLPE or 866-590-6845
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www.polyprocessing.com

CAUTION! Heating pads and insulation are highly recommended to prevent coagulation of FOG.

TECHNICAL OVERVIEW:

Fat, oil and grease (FOG) Storage Tanks.

TANK

IMFO® Vertical Flat Bottom of XLPE:

- 230-15,500 gallons
- 1.35 spg rating

IMFO® Vertical Sloped Bottom of XLPE:

- 3,950-15,000 gallons
- 1.35 spg rating

Non-IMFO® alternatives:

SAFE-Tank® XLPE:

- 55-8,700 gallons
- 1.35 spg rating for primary tank
- Spg ratings for secondary tanks must be equal to primary tank.
- All other tank sizes must equal primary tank spg rating.

Standard Vertical Flat Bottom XLPE:

- 30-15,500 gallons
- 1.35 spg rating

SECONDARY CONTAINMENT

Recommend **SAFE-Tank®** secondary XLPE as shown above.

Non-SAFE-Tank® alternatives:

- PPC secondary containment basin
- Other secondary containment suitable for FOG of adequate size for use



PLUMBING TO THE TANK

- Required use of **flexible connections** with fittings on lower third of sidewall
 - » Allows for lateral and vertical expansion and contraction of the tank
 - » Reduces pump and piping vibration stress on the tank
- Expansion joints must meet the following minimum requirements:
 - » Axial Compression $\geq 1.5''$
 - » Axial Extension $\geq 0.625''$
 - » Lateral Deflection $\geq 0.750''$
 - » Angular Deflection $\geq 14^\circ$
 - » Torsional Rotation $\geq 4^\circ$

VENTING

Please refer to the venting chart on www.polyprocessing.com/venting

FOUNDATION AND RESTRAINTS

- PolyBase or smooth concrete designed to accommodate IMFO®, SAFE-Tank® or vertical tank
- No restraint or ladder attachment bands circumscribing the tank are allowed. Cable restraint systems must pass cables over the top of the tank.

TEMPERATURE

Product should not exceed 100°F at delivery to prevent damage to tank.

OPTIONS

Side manways for easy cleaning (as shown), restraint systems for wind and seismic, level gauges, ladders, heating pads, insulation, mixer mounts, and engineering stamp