

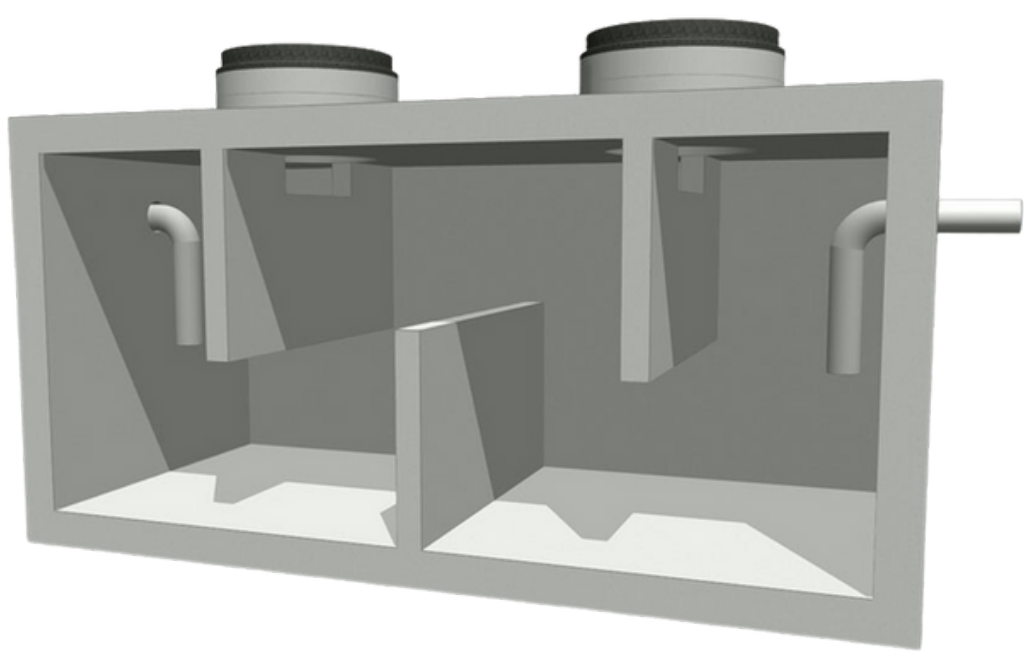
Precast Grease Interceptor Considerations

Why Precast Grease Interceptors?

Many municipalities require the use of some system to effectively eliminate fats, oils, and grease (FOG) from clogging public sewers and generating unsanitary wastewater backups. FOGs can be collected by large concrete grease interceptors. The collected FOGs must periodically be removed from the grease interceptor in order to continue to function properly.

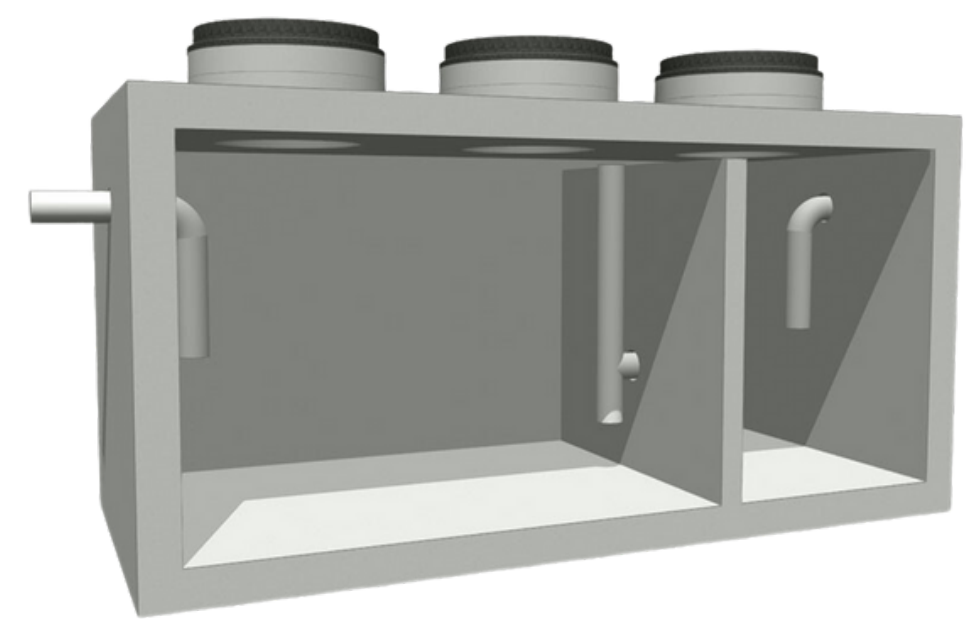
The advantage of using precast grease interceptors is that implementation is fairly simple. In contrast to poured in place structures, precast installation can be completed with simple machinery and a small group of professionals.

Grease Interceptor Options



Baffle System

This design allows the FOG to naturally separate and rise to the top as sediment sinks to the bottom. Another baffle then stops the FOG from traveling any further in the system as the water flows through the second chamber and exits the precast grease interceptor.



Stand Pipe System

The Stand Pipe System utilizes a crossover pipe to convey water from the first chamber into the second chamber. This design slows the flow, affording extra time for the FOG to separate from the water as it flows through the precast grease interceptor. The pipes are often removable, and are reachable from the access covers to facilitate regular cleaning.

Precast Grease Interceptor Installation

Basic Installation Steps

Installation of precast concrete grease interceptors should be completed by qualified and knowledgeable contractors. Be sure to follow all local and project requirements.

1 Prepare the work site.

Tip: This will involve excavating the appropriate dimensions to accommodate the grease interceptor, the inlet and outlet pipes – all at proper depths to result in easy access to sediment removal openings. Be sure to compact the soil bed to withstand the pressure of the interceptor, its contents, and any applicable impact of above-grade traffic.

2 Unload the precast grease interceptor.

Tip: One person should be stationed at the installation site and another person should be located on or near the delivery flatbed trailer to guide the lift operator. The lift should be placed near the center of gravity of the interceptor so that when suspended, the structure is nearly level. Place it in the installation area, guided by the designated person. The inbound and outbound openings should be guided to the proper orientation of the excavation.

3 Install the inbound, outbound, and access pipes.

Tip: Do not proceed to the final step until all has been properly reviewed by the applicable inspectors.

4 Backfill the exposed area.

Tip: Compact the top layer until it can withstand any applicable traffic and other pressure.

Equipment Required

- Excavator or backhoe
- Vibratory compactor
- Any proper bracing that is required
- Sealants, grouts, and mastic
- All proper safety equipment & PPE

Precast Grease Interceptor Technical Resources

What is a Precast Grease Interceptor?

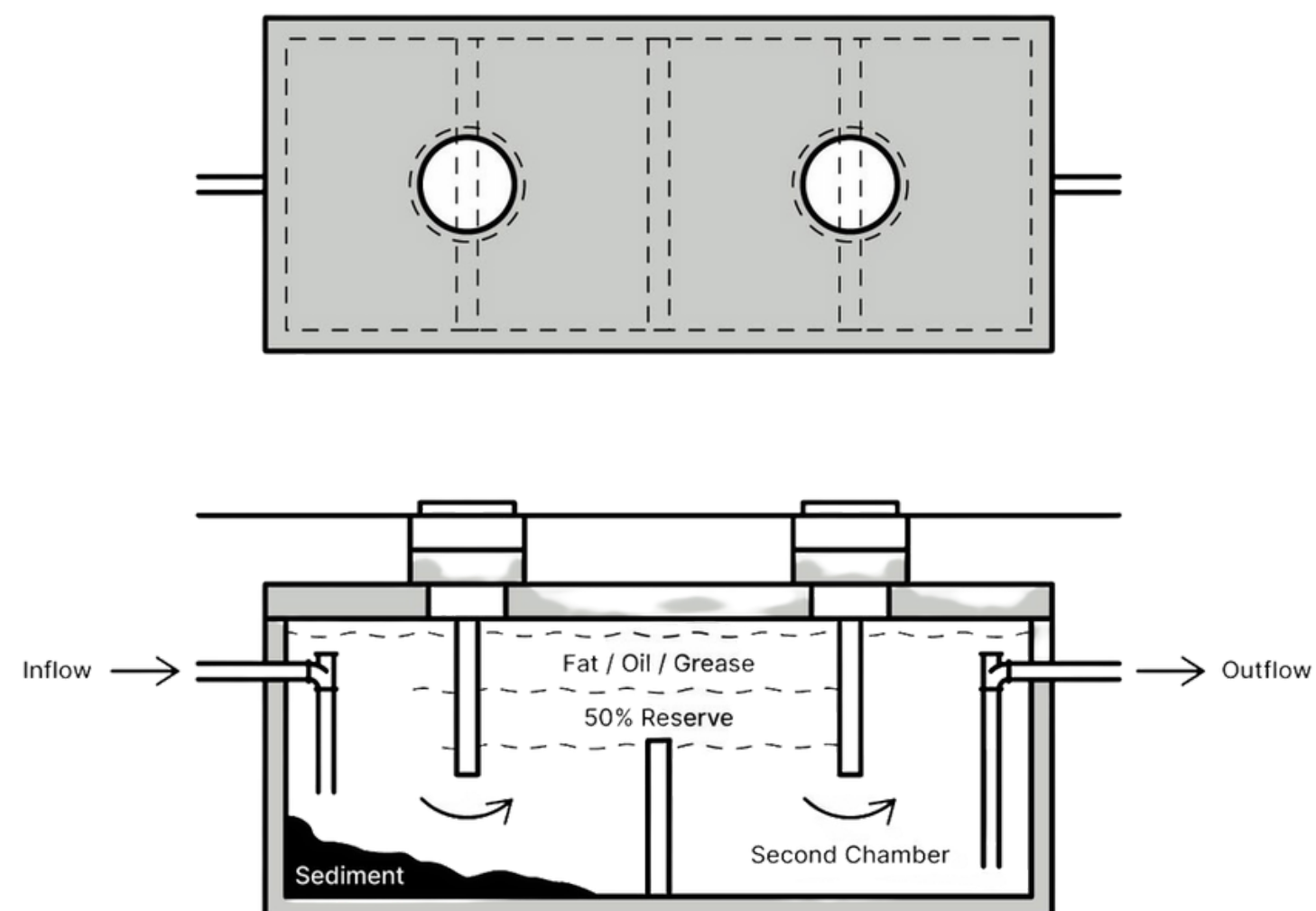
Precast grease interceptors are large basins with strategically designed chambers which separate fats, oils, and grease (FOG) and solid sediment from free flowing water.

Grease interceptors differ from grease traps, which are much smaller and are typically located under kitchen sinks. Grease interceptors are designed to handle much larger volumes of water and are typically buried underground near the affected building to prevent foul smells from affecting the indoor environment.

How It Works

Fats, oils, and grease float to the top of water. Grease interceptors take advantage of this and use chambers to separate them from free flowing water.

Precast grease interceptors can handle anywhere from 500 to 15,000 gallons of moving water. FOG's rise to the top and are blocked from flowing through the interceptor.



ASTM C1613 Standard Specification

This specification covers design requirements, manufacturing practices, and performance requirements for monolithic or sectional precast concrete grease interceptor tanks.