



FLOATING RESTROOM OVERVIEW

The floating restroom is comprised of three main components: barge, superstructure, and toilet system. Marine grade aluminum is used as the primary material because of its durability, corrosion resistance, longevity, and recyclability. The barge provides a structurally stable platform that supports the superstructure which in turn houses the toilet system. The barge also houses and protects the sewage holding tank.

The barge is approximately 24 feet long, 11.5 feet wide, 3.5 feet deep and divided into 7 watertight compartments. The four corner compartments have foam floatation. The two side compartments (ballast tanks) are filled with water once the floating restroom is anchored in place. Each ballast tank holds 1200 gallons. Adding water ballast lowers the unit into the water, reduces the freeboard, and greatly increases the stability of the floating restroom. The center compartment is a 1200 gallon sewage holding tank of double wall construction.

The superstructure is approximately 14 feet long, 3.5 feet wide, 7.5 feet high and divided into three compartments. The superstructure is centered on the barge and provides ample access on all sides. The two end compartments are toilet rooms and each contains a flush toilet and urinal. The center compartment is the mechanical room and contains the toilet flushing equipment, water ballast pump, low voltage power system, tank monitoring system, storage, and access to the sewage holding tank. The roof of the superstructure has skylights for each toilet compartment, vents for all three compartments, solar panel, mooring light, and sewage holding tank vent pipe. The doors have vents, privacy locks and power closers. Grab bars are located along both sides of the superstructure and on three walls of the toilet rooms. Full width guardrails are located at each end of the floating restroom. The superstructure and barge deck have a sandblasted finish to eliminate glare and to provide a non-slip surface.

The toilet system consists of two stainless steel flush toilets, button activated flush valves, water pump, and water holding tank. The pump supplies fresh water to a 13 gallon holding tank which meters out about ½ gallon per flush. Waste is discharged directly into the sewage holding tank after each flush. A special valve in the toilet bowl closes after each flush to retain a small amount of water in the bowl.

Floating restrooms are towed to a location and anchored in place by piling or a cabling system. When the holding tank is full the floating restroom is towed to shore and pumped by a commercial truck sanitation service.

