

FOX STUDIOS BAJA

THE TANKS

Tank 1 is a poured concrete pool with a total area of over 360,000 square feet (600' x 600' irregular shape). Most of this area is 3.5 feet deep, but two deeper sections may be filled independent of each other prior to flooding the entire tank. There is a 130 foot by 200 foot section which can be flooded to a depth of 40 feet. The other section is a 30 foot wide by 300 foot long section which is 15 feet deep. When Tank 1 is filled, an overflow weir on the ocean side of the tank creates a 420-foot long seamless (infinite) horizon with the Pacific Ocean beyond it. Tank 1 has a maximum capacity of 17 million gallons. It can be completely filled or drained in about 40 hours. Tank 1 is serviced by a 162 feet tall motorized tower crane, which can be used as a lighting and camera platform in addition to its uses for set construction.

Tank 2 is situated inside Stage 2. Access to the tank is through four roll-up doors or through a 20' wide concrete ramp that enters near the bottom of the tank. The tank is 100' x 200' x 29' feet deep with a capacity just over 4.3 million gallons. The filtration plant provides seawater to the tank via adjustable inlets and outlets, making it possible to operate the tank at any depth greater than two feet. Located inside the tank is a 90' x 160' steel platform supported by a unique hydraulic motion control system that allows for sets weighing up to 0.6 million pounds to be lifted (heavier sets needs to be offset using buoyancy) lowered and tilted up to 30 degrees in and out of the tank with total control. The steel platform was designed to work with unidirectional loads. These lifting points are located at the edge of four parallel main beams. The riser platform is capable of supporting distributed loads of up to 1.2 million pounds including the weight of the platform. The distributed loads can be people, furniture, sets or other fixtures. Concentrated (point) loads are allowed only if they are applied perpendicular to the surface of the platform. Concentrated loads must coincide with defined areas on the main or secondary beams. The riser platform cannot support additional dynamic loads or loads parallel to the platform. The lifting points may not be altered. Large hydraulic rams and a 2:1 pulley/cable system enable the platform to be lifted in and out of the water in tank 2. Using a computerized control system, the set's placement and rate of movement can be controlled within inches. The riser platform can be lowered or raised at a maximum rate of +/- 2.5 feet/second. For special sets, which require modification to the platform or uneven loads, the production is required to consult Engineer Sergio de la Garza, phone 011 52 (664) 680 98 24, before sets are fabricated.

Tank 3 is an outdoor pool, which accommodates both fresh and salt water. The interior of the tank is painted black. The tank is an ideal facility for insert and surface effects, or underwater and green screen photography. A 10' wide ribbed ramp provides easy equipment and machine access into the tank for both wet and dry use. It is supplemented overhead by a 60' x 80' steel platform, capable of being tilted 90 degrees.

Tank 4 is located in stage 4. The tank is approximately 100 feet wide by 100' long and is 3'8" deep. There is a 30' x 35' x 12' deep section located near the center of the tank. Two walls of this tank have a built in over flow weir. The walls behind the weir can be covered with backing material or green screen, to create a seamless horizon. All our tanks can be heated with rental steam generators or propane heaters. Tank filling and drain rates / times are detailed in the charts appended to this section.