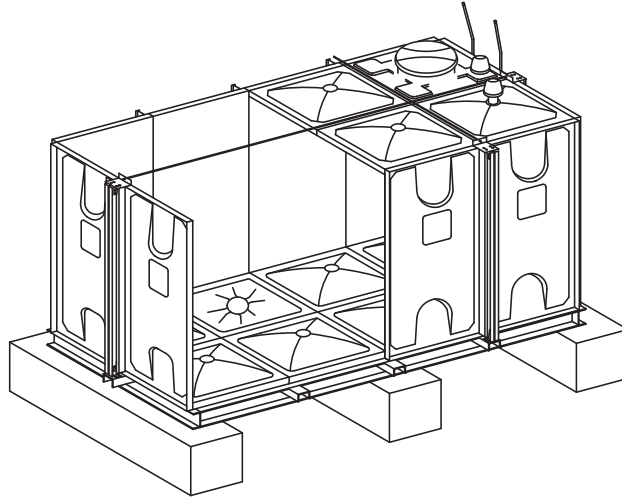


2. Structural Specifications

2-1 Reinforcement Specifications for 3 meter height or Smaller

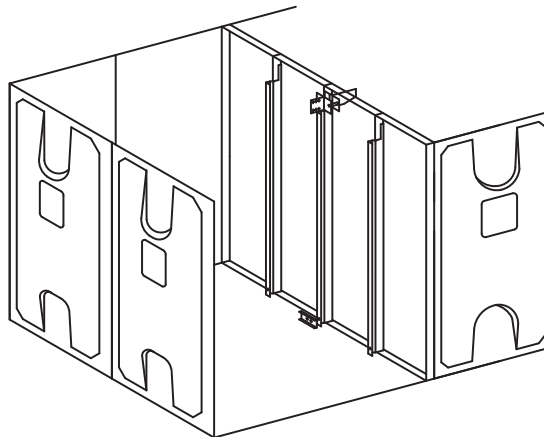
HISHITANK™ G Panel Type employs an external reinforcement system having a gate-like structure with sidewall reinforcement, steel flat base, and ceiling reinforcement.



This structure eliminates the need for stainless sag rods in the tank by using rigid reinforcement members on the exterior of the tank, allowing users to perform interior maintenance inspection and cleaning easily.

It is possible to clean tanks with partitions without having to stop the water supply.

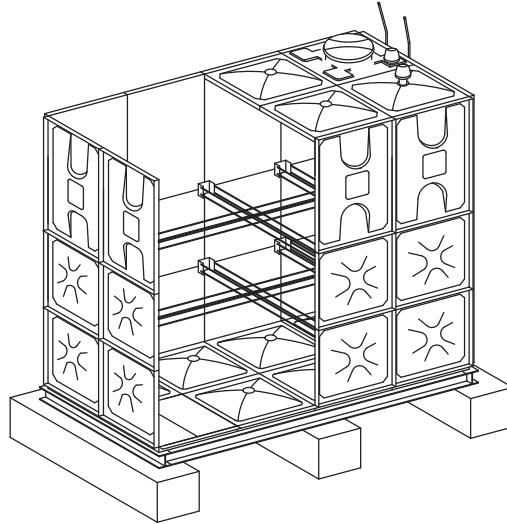
Reinforcement members have been attached to each partition to provide sufficient strength to withstand the water pressure applied from either side.



(Structure of a partitioned tank with reinforcement members)

2-2 Reinforcement Specifications for 3.5 to 4 meter height

Because the water pressure applied to a 3.5 mH to 4 mH HISHITANK™ G Panel Type tank is large, it employs an internal reinforcement system in which the intersections of the panels of opposing sidewalls are pulled together with stainless sag rods.



2-3 Special Order Specifications

There are many product variations of HISHITANK™ G Panel Type.

*Tank body (FRP panels)

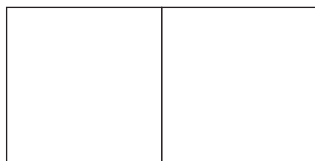
We also design tanks (FRP panels) that can handle loads six times as large as the hydrostatic pressure.

*Tank with partitions for easy cleaning

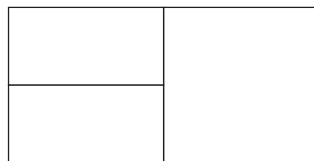
A tank separated into two or more sections allows users to perform internal inspections and cleaning of the tank without stopping the water supply.

Note: When cleaning the inside of one section of a tank that is separated into two sections, lower the water level of the other section to half or less. If you will only use one section of the tank for more than 1 week, you will need to take additional measures.

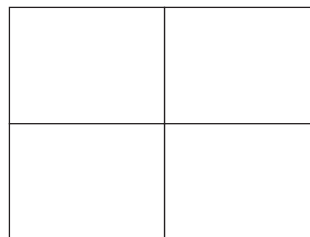
Two-section tank



T partition tank



Cross partition tank

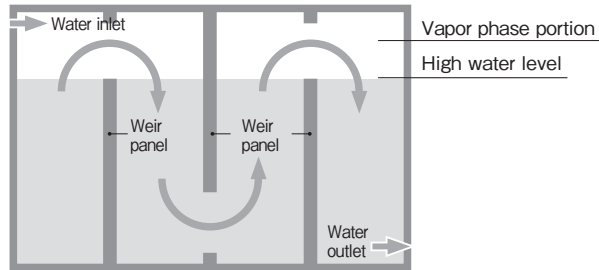


Note: T partition tanks and cross partition tanks are only available for 3.0 mH or smaller tanks.

***Sand settling partitions**

When using a HISHITANK™ G Panel Type tank as a sand settling tank, you can set up weir panels.

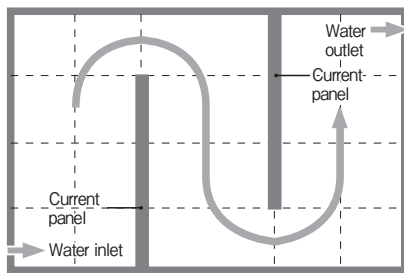
Elevation view



***Current panels**

You can set up Rectification panels to avoid the occurrence of stagnant water in a large tank. Note, however, that the current panels will be set up parallel to the partitions if the tank has partitions.

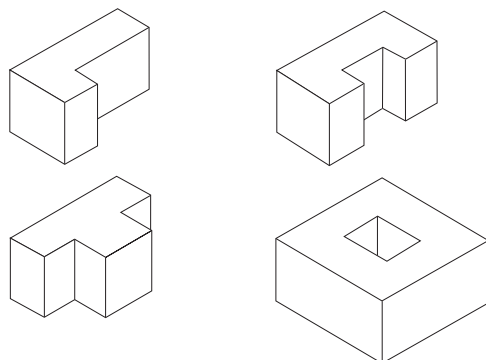
Plane view



***shape tanks**

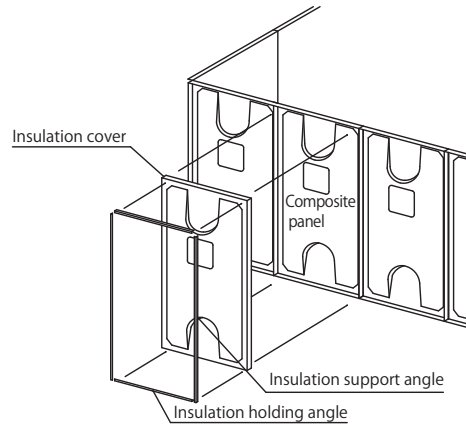
Note that we cannot produce some shape tanks depending on the height, size, and shape of the tank.

● Since it is not possible for us to produce some shape tanks depending on its height, contact us when you wish to order a shape tanks.



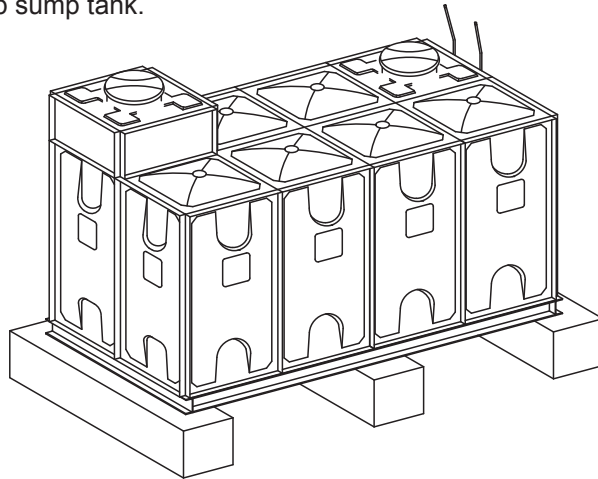
***50-mm thermal insulation**

We have a high-grade type of heat insulating material whose average thickness is 50 mm.



***top sump**

You can attach a top sump tank.



***Seawater tank**

You can store seawater in HISHITANK™ G Panel Type tanks, too.

When you need to use a tank for seawater, we will coat the metal portions in the tank with resin.

Water quality (pH): 5.8 to 8.6

Chloride ion concentration: 19,000 ppm or less

2-4 Earthquake-Resistant Design

We can also provide HISHITANK™ G Panel Type tanks with earthquake-resistant specifications upon request.

There are two types of shaking in an earthquake. One is caused by high-frequency waves and the other by low-frequency waves. The movement of water in the tank depends on the type of wave. While the lower portion of the tank will be subject to a large force when there are high-frequency vibrations, the upper portion of the tank will be subject to a large force when there are low-frequency vibrations, and sloshing will occur which affects the ceiling panel. HISHITANK™ G Panel Type tanks are designed to handle both types of earthquake.

HISHITANK™ G Panel Type tanks have continuously satisfied the changing seismic design standard of Japan, the land of earthquakes.