Why should you use GRP panel type water tanks?

What we can do

If there is a space where the entryway is too narrow for a concrete or integrated tank, a panel tank will be able to pass through without trouble. A panel type tank will perform well regardless of room size. You can install the water tank by making the most of the limited space!

In recent cases, Uber’s new head office building (San Francisco) chose HISHITANK. Installation space was quite limited. Despite this, the convenient design of our panel tank allowed us to install it successfully. If you are troubled with space problems when using a water tank, remember “HISHITANK”.

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### Concrete/Steel Tank vs. Panel Tank

<table>
<thead>
<tr>
<th>Concrete/Steel Tank</th>
<th>Panel Tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannot fit in all spaces</td>
<td>On-site assembly</td>
</tr>
</tbody>
</table>

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Business Solution

Retrofit

Easy to transport, assemble, and install tanks even when space is limited.

**Problem**

 Contractors tried to replace the existing concrete tank, but the entrance was too narrow for the new tank to pass through. Many years passed before the tank would be renewed.

**Solution**

Since HISHITANK is a panel assembly type tank, it succeeded in replacing the tank without destroying the wall of the building or using heavy machinery. Of course there is no water leakage from the tank and water can be supplied easily as before.

Century Plaza Towers (California, USA)
MITSUBISHI CHEMICAL INFRATEC CO., LTD. is the pioneer in Japan for manufacturing "GRP" (Glass fiber Reinforced Plastic) tanks under the name of "HISHITANK™" GRP water tanks since 1962 for over 55 years.

As "MITSUBISHI" group companies, HISHITANK™ GRP water tanks are committed to meeting stringent quality control standards to achieve the highest performance and meeting the demands of customers worldwide.

**History**

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1962</td>
<td>Sales of GRP water tanks began.</td>
</tr>
<tr>
<td>1978</td>
<td>GRP panel assembly-type tanks were released.</td>
</tr>
<tr>
<td>1987</td>
<td>GRP panel-type heat-resistant tanks were released.</td>
</tr>
<tr>
<td>1997</td>
<td>New earthquake-resistant panel-type tanks were released.</td>
</tr>
<tr>
<td>2005</td>
<td>Seawater tanks and hot water tanks were released.</td>
</tr>
</tbody>
</table>
Characteristics and advantages of GRP panel tanks

Comparison between conventional tanks and GRP panel tanks

Materials Used in Various Types of Water Tanks

- PE
- GRP
- Concrete
- Stainless Steel

Deterioration over time
Weight problems
Metal corrosion

“HISHITANK ™”

GRP panel tanks solve these problems.

A rectangular tank makes the most of your available space.

Circular Tank

- Building

Rectangular Tank

- Building

Due to its rectangular shape, a GRP panel tank is also more space efficient than other tanks.

No internal coating required

Unlike a concrete tank, a GRP panel tank requires no internal coating. Instead, hygiene can be simply maintained through regular cleaning.
A variety of tank designs

**Square Type**
- Insulation panel
- Non-insulation panel

**Odd Shape Tanks**
Production varies by shape. Confirmation required.

### Panel types

**Precautions**
This shows the basic side wall panel assembly. The panels and reinforcement material used may change depending on the specifications.

**Roof panels**
- 1mH
- 1.5mH
- 2mH
- 2.5mH
- 3mH
- 3.5mH
- 4mH

**Bottom panels**
- 1mH
- Manhole
- 0.5×1m
- 0.5×0.5m

### Insulation Panel / Non-insulation Panel

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE</td>
<td>GRP</td>
</tr>
<tr>
<td>GSE</td>
<td>GRP with insulation</td>
</tr>
</tbody>
</table>

1. Set the insulation material (styrofoam).
2. Place the decorative cover.
Projects

Uber’s Global Headquarters
(San Francisco, USA)

Century Plaza Towers
(California, USA)

Factory
University


URL: http://www.mp-infratec.co.jp/setubi/eng/index.html

- The information and data contained in this brochure are as of May, 2019.
- The content of this brochure may be changed without prior notice.
- Due to printing characteristics, the color tones may differ from the actual ones.
- The transcription of any data or information contained in this brochure without prior written consent is strictly prohibited.
Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Hishitank™

Listee: Mitsubishi Chemical Infratec
1-2-2 Nihonbashihongoku-cho, Chuo-ku
Tokyo, 103-0021
Japan
www.mp-infratec.co.jp

Compliance with the following codes:

2017 *City of Los Angeles Plumbing Code*

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Compliance with the following standards:

AWWA D121-12, Bolted Aboveground Thermosetting Fiberglass-Reinforced Plastic Panel-Type Tanks for Water Storage
IAPMO PS 52-2019 Pump/Dose, Sumps and Sewage Ejector Tanks With or Without a Pump
IAMPO/ANSI Z1002-2014 Rain Harvesting Tanks
ANSI/NSF/CAN 61-2018, Drinking Water System Components – Health Effects

Identification:

Each tank shall be permanently marked with the following:

- Manufacture’s name or trademark.
- Model Number or serial number
- Working liquid volume
- Date, date code or identifier traceable to the date of manufacturer
- ICC-ES PMG Listing Mark
Installation:

The Hishitank™ must be installed in accordance with the manufacturer’s published installation instructions and the applicable code. The Hishitank™ is recognized for indoor and above ground installation.

Models:

Hishitank™ G Panel type is a modular water tank consists of fiberglass reinforced polymer panels and steel bars.

Hishitank™ G Panel type has been evaluated to meet the requirements as set forth in the above-mentioned standards for potable water, storm water, grey water and black water storage applications.

Conditions of listing:

1. The Hishitank™ G Panel type recognized in this listing must be installed in accordance with the manufacturer’s published installation instructions and the applicable code.
2. The Hishitank™ G Panel type is recognized for indoor installation only.
3. The Hishitank™ G Panel type is recognized for above ground installation only.
4. The Hishitank™ G Panel type is recognized for storage of potable water at cold temperature 73 °F (23°C).
5. Seismic evaluation is outside scope of this listing.
6. The Hishitank™ G Panel type is manufactured under a quality control program with an annual surveillance inspection by ICC-ES.