



HONGLIANG WATER TANK BROCHURE

Founded in 1992

33 years of quality, direct sales
water tank manufacturer!



HONGLIANG ENVIRONMENTAL EQUIPMENT CO., LTD.

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ALTRUISM, COLLABORATION, SERVICE, INNOVATION

PAINTING THE BEAUTY OF LIFE AND DREAMING OF A GREEN FUTURE

As a solid support for urban infrastructure, the water system is like the blood of the city, flowing the source of life unimpeded. From the source to the tap, every step embodies the persistence of quality and the expectation for the future. We are committed to creating an efficient, environmentally friendly and sus

tainable water environment so that water resources can be used and protected in the most reasonable way.



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COMPANY INTRODUCTION

Guangdong Hongliang Environmental Protection Equipment Co., Ltd., headquartered in Dongguan City, Guangdong Province, was founded in 2013. It is a direct sales manufacturer focusing on commercial kitchen equipment and water supply and drainage equipment. Our core products include stainless steel water tanks, insulated water tanks, fiberglass water tanks, underground water tanks, intelligent water supply equipment, automatic oil separation equipment, sewage lifting equipment, integrated pumping stations and water system treatment equipment.

At present, our company has 135 employees, equipped with advanced production equipment and a strong sales and after-sales service team. Our business is spread all over the country and has expanded to overseas markets such as Southeast Asia and Africa. With complete corporate qualifications, we have the ability to participate in bidding for large projects.

We have established an extensive marketing and service network across the country, and have successively established provincial marketing centers and 24-hour service hotlines in Guangzhou, Changsha, Guiyang, Nanning, Hefei and Chengdu. We also provide one-stop procurement services to meet the diverse needs of customers.

Looking to the future, we will continue to expand our national layout and achieve marketing center coverage in various provincial capital cities. We adhere to a clear development direction and a flat management model, have a young and energetic team, and are committed to achieving

a diversified development strategy of multiple regions, multiple products and multiple channels.



DEVELOPMENT HISTORY

In 1992, the founder established the Zhongshan Modern Stove Professional Team in Zhongshan. In 2013, it registered Dongguan Hongliang Environmentally Friendly Kitchen Equipment Co., Ltd., mainly for commercial kitchens such as schools, factories, hospitals, canteens of government agencies, hotel catering chains, and private clubs. Mainly equipment, the main products are gas stoves, induction cookers, dishwashers, food machinery and equipment, disinfection cabinets, stainless steel products, oil fume systems, etc. It has bidding qualifications, more than 30 patents and software, and is a well-known direct sales company of commercial kitchen equipment in China factory. Cooperation cases: Kyocera Group, China Overseas Real Estate, CIMC Group, China Unicom, China Railway, Dongguan Intermediate People's Court, Guangzhou Panyu District Hospital of Traditional Chinese Medicine, Dongguan Guangzheng Experimental School, Guangdong University of Foreign Trade, etc.



- 2015** Invested in the establishment of the stainless steel water tank division, beginning a new chapter of diversification.
- 2019** Nancheng Marketing Center was established to separate production and sales.
- 2020** Branches in other provinces were established.
- 2021-2023** Start the group road, start multi-product, multi-regional development, and digital operation, independent accounting of business units, and achieve diversified development.

CORPORATE CULTURE

CORPORATE VISION

Become the world's most trusted one-stop environmental protection engineering supporting comprehensive service provider

CORPORATE MISSION

While pursuing the material and spiritual happiness of all employees, we contribute to the construction of a green ecological environment with professional one-stop environmental protection engineering supporting services.

CORPORATE VALUES

Being a person: Sincerely altruistic and positive
Doing things: Efficient collaboration and results first
Business philosophy: Innovation, win-win and service first

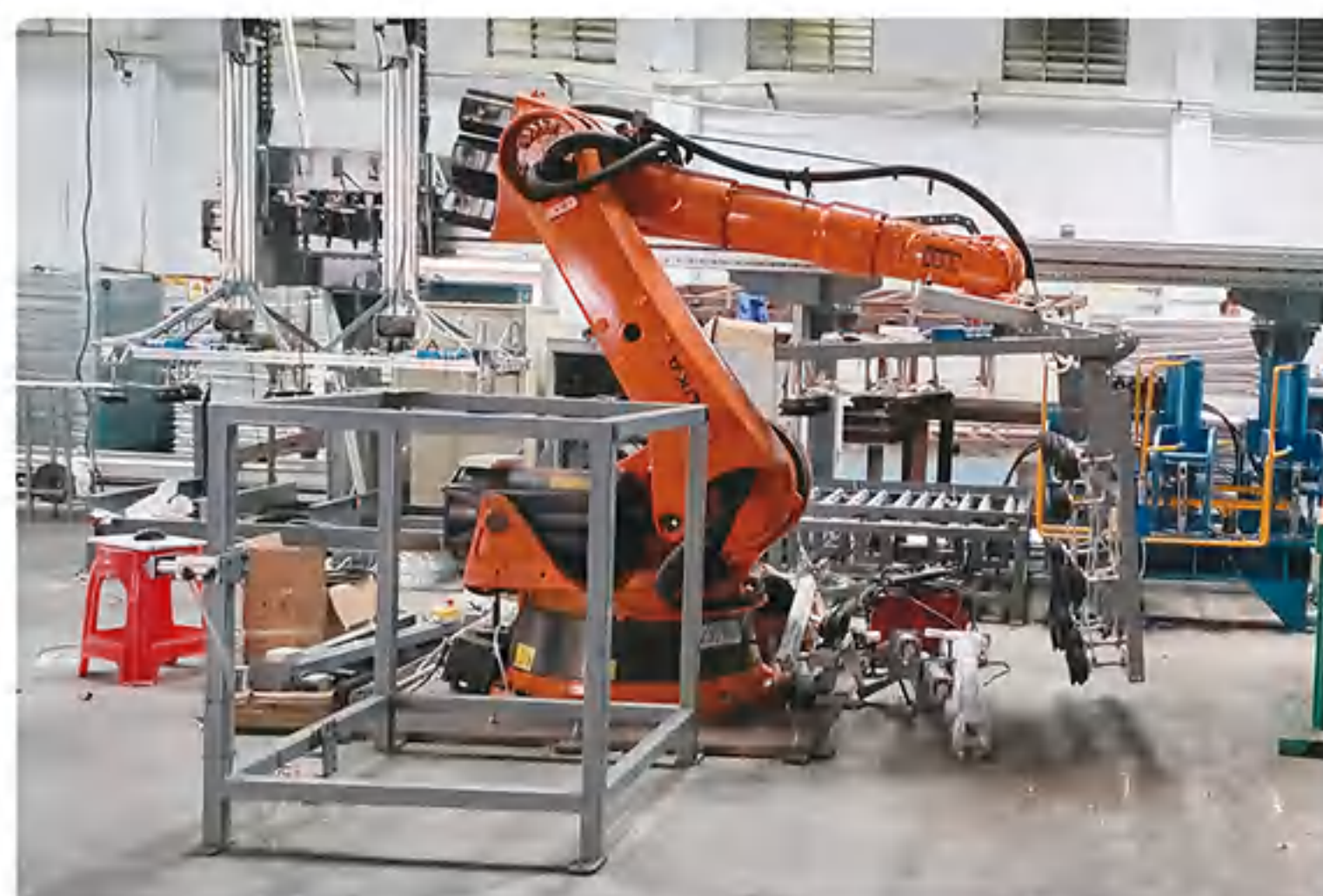
PROFESSIONAL PRODUCTION EQUIPMENT



Robot stamping equipment



Automatic Angle Steel Forming Machine



Robot stamping equipment



Fully automatic foaming machine



Hydraulic Press



1500W laser cutting machine

PROFESSIONAL PRODUCTION EQUIPMENT



Shearing Machine



Punching equipment



Yangli Punch Press



Angle cutting machine



CNC bending machine



Plate oven

DISPLAY OF THE TEAM'S STYLE



Q1 Quarterly Meeting



Moving to a new home



New Year photo



Annual Celebration



Elite Training Camp



Annual Gala



Birthday Events



Semi-annual meeting



cosplay festival



Father's Day Event



Award Ceremony



Q4 Kick-off Meeting

STAINLESS STEEL WATER TANK

Stainless steel water tank is a new generation of water tank products after FRP water tank. It adopts modular design. The main body is assembled and welded by precision molded stainless steel stamping plates. There are uniform stainless steel lacing bars inside the water tank to enhance the pressure bearing and impact resistance of the water tank, thereby improving the durability and safety of the water tank. This design allows the water tank to adapt to various complex installation environments. It is not only convenient to transport to the construction site, but also increases the upper limit of the water tank capacity, making construction faster and more convenient. Stainless steel water tanks generally use 304 and 316 stainless steel plates, which have stable physical and chemical properties, no pollution to water quality, corrosion resistance, high temperature resistance, high strength, smooth surface and easy to clean. It can be used for the storage of weak acidic and alkaline liquids such as cold water, clean water, boiled water, chemicals, solvents, etc., and is widely used in construction, fire protection, industry and agriculture.



WIDELY APPLICABLE



Office Building



Resort Hotel



General Hospital



School Campus



Enterprise Factory



Livestock and Poultry Farming



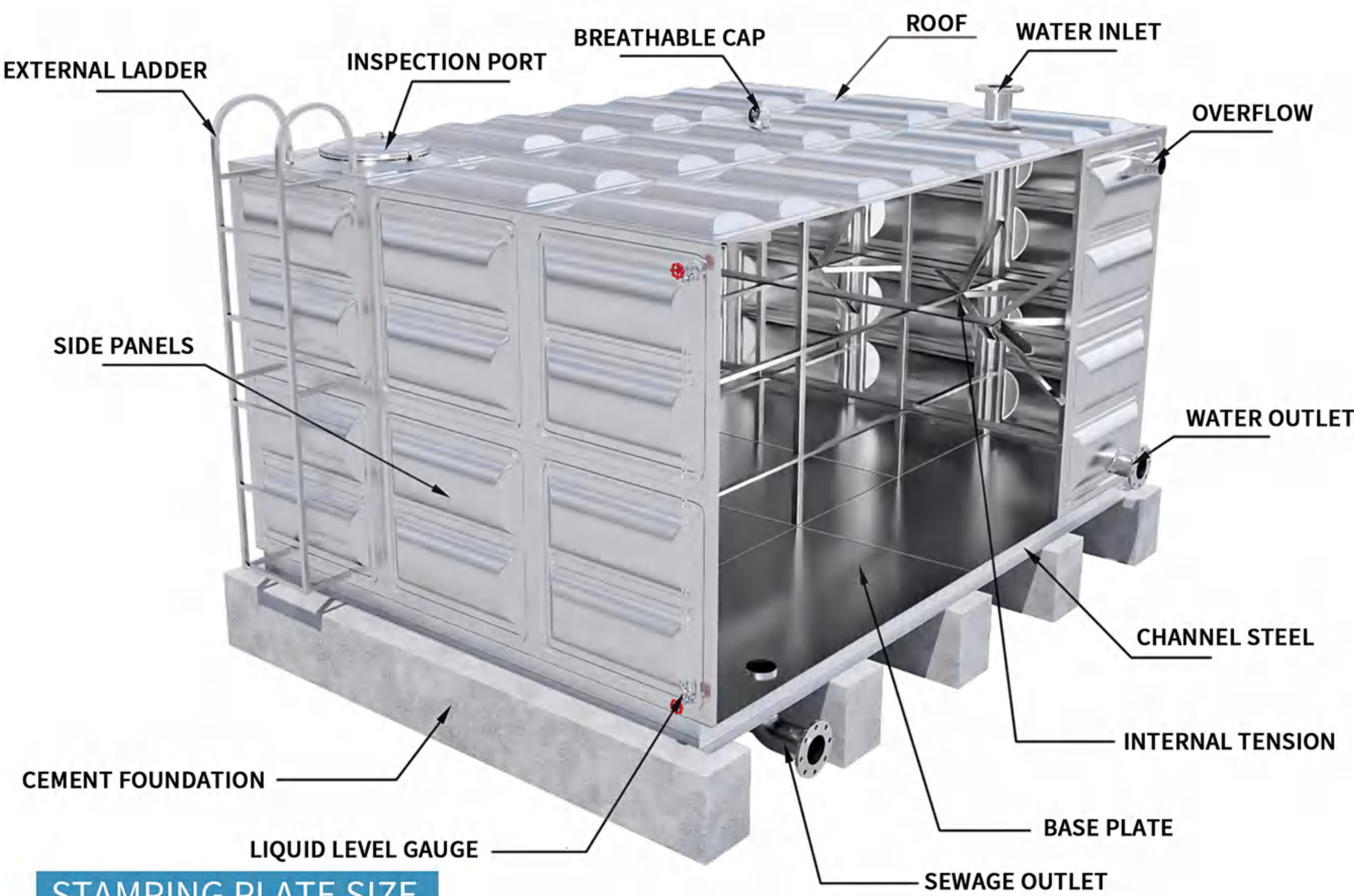
Living Area



Garden irrigation



WATER TANK STRUCTURE DESCRIPTION



STAMPING PLATE SIZE



1000mm × 1000mm



1000mm × 500mm



500mm × 500mm

WATER TANK REQUIREMENTS AND SPECIFICATIONS

PLATE THICKNESS REQUIREMENTS

WATER TANK HEIGHT 1000mm~3000mm					THICKNESS TOLERANCE REQUIREMENTS	
TOP PLATE AND MANHOLE COVER	BASE PLATE	SIDE PANELS			WALL THICKNESS MM	ALLOWABLE TOLERANCE MM
1.0mm	2.0mm	UPPER	CENTRAL	LOWER	1.5	>>> ±0.15
					2.0	>>> ±0.20
		1.2mm	1.5mm	2.0mm	2.5	>>> ±0.25

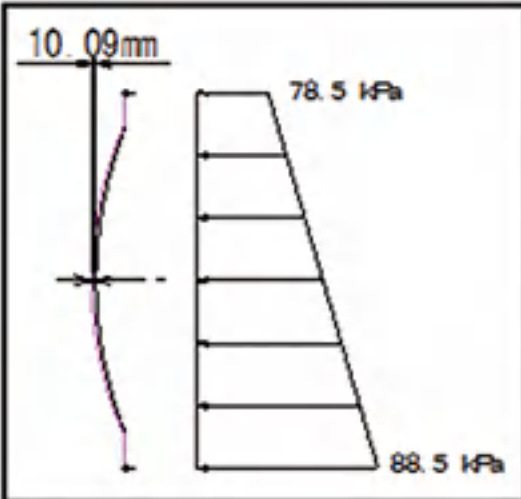
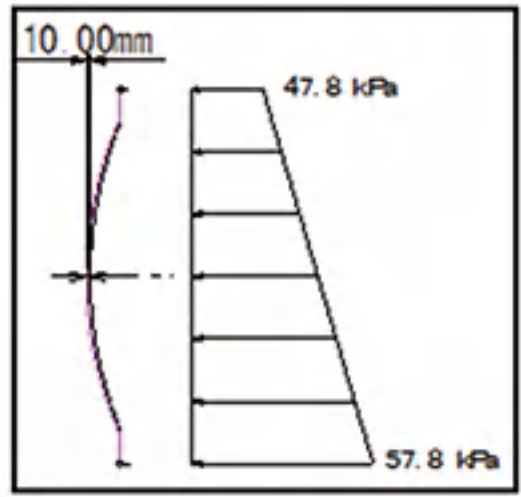
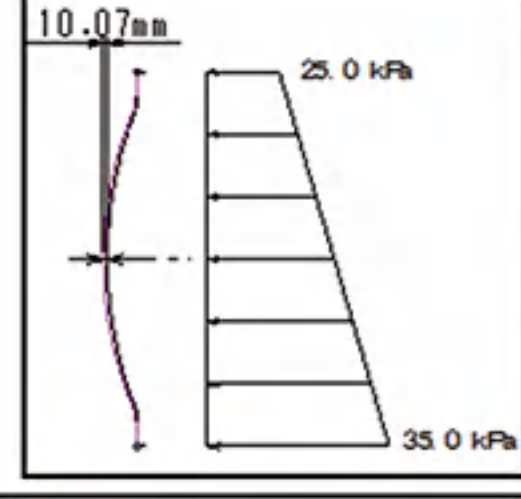
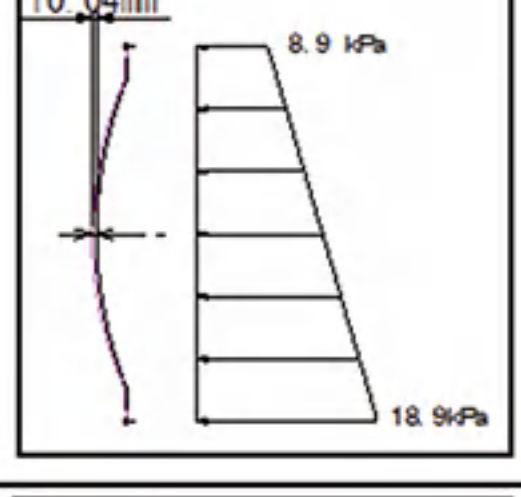
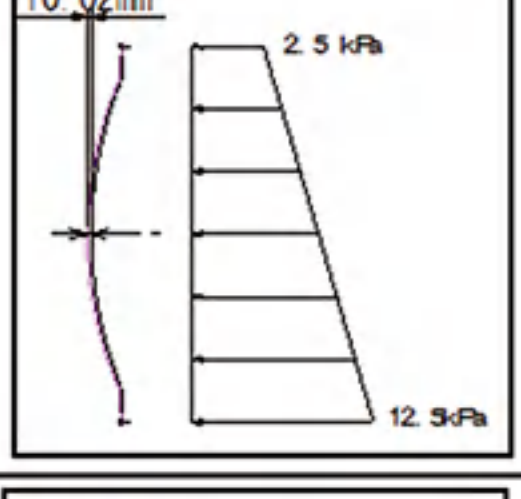
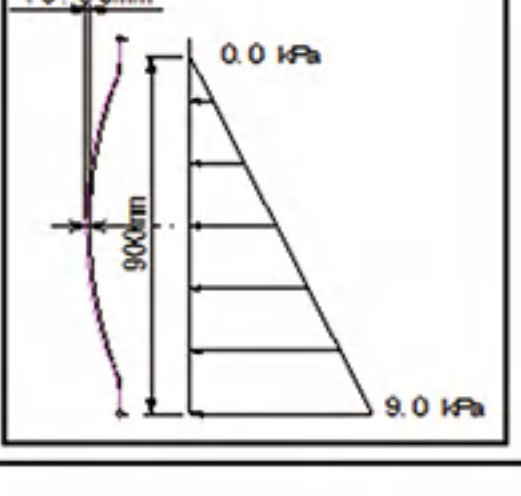
WATER TANK FOUNDATION REQUIREMENTS

The concrete base and pedestal shall be constructed by the general contractor. The strip foundation shall comply with the drawings and installation requirements. The height shall not be less than 300 mm, and the height error of all foundations shall not be greater than 5 mm.

WATER TANK STRUCTURE REQUIREMENTS

1. When the volume of the water tank is greater than 50m³, it should be divided into two compartments with basically equal volume and can work independently.
2. The water inlet control valve (float valve) must have hydraulic control and water level difference control functions, and the water level float should be set on both sides of the manhole to facilitate replacement and maintenance.
3. The diameter of the overflow pipe should be larger than the diameter of the water inlet pipe, and the overflow pipe and vent hole should be equipped with a stainless steel filter.
4. There should be diagonal double vents on the top plate of the water tank, the size of which should not be less than DN50, and the vent hole should be equipped with an elbow so that its mouth faces downward and the outlet should have an insect-proof net device.
5. In addition to the inlet and outlet interfaces, the water tank should also be equipped with overflow and sewage interfaces. The water inlet should be higher than the overflow port by more than 50mm, and the sewage outlet should be at the bottom of the water tank.
6. The bottom of the outlet pipe should be higher than the bottom of the water tank, and the height difference should not be less than 0.1m.
7. The water inlet pipe should preferably choose the top water inlet, and the inlet and outlet pipes should be set separately, and no water flow short circuit should occur. If necessary, a diversion device should be installed.
8. If the water tank height is greater than 1000mm, internal and external escalators should be added.
9. The water tank should have a liquid level control device, which should automatically alarm or stop the pump when the liquid level is too high or too low. A valve control switch should be installed at the water inlet of the water level gauge, and the water level display should be sturdy and durable, and resistant to ultraviolet rays and external force damage.

INDUSTRY'S FIRST STRESS ANALYSIS REPORT

Finite element analysis results of pressure on various water tank plates at 10mm displacement				
Plate thickness	Lower water pressure	Upper water pressure	Center displacement value	How the load works
mm	kPa	kPa	mm	
3.0	88.5	78.5	10.09	
2.5	57.8	47.8	10.00	
2.0	35	25.0	10.07	
1.5	18.9	8.9	10.04	
1.2	12.5	2.5	10.02	
1.0	9	0	10.06	

RELATIONSHIP BETWEEN SHEET THICKNESS AND PRESSURE

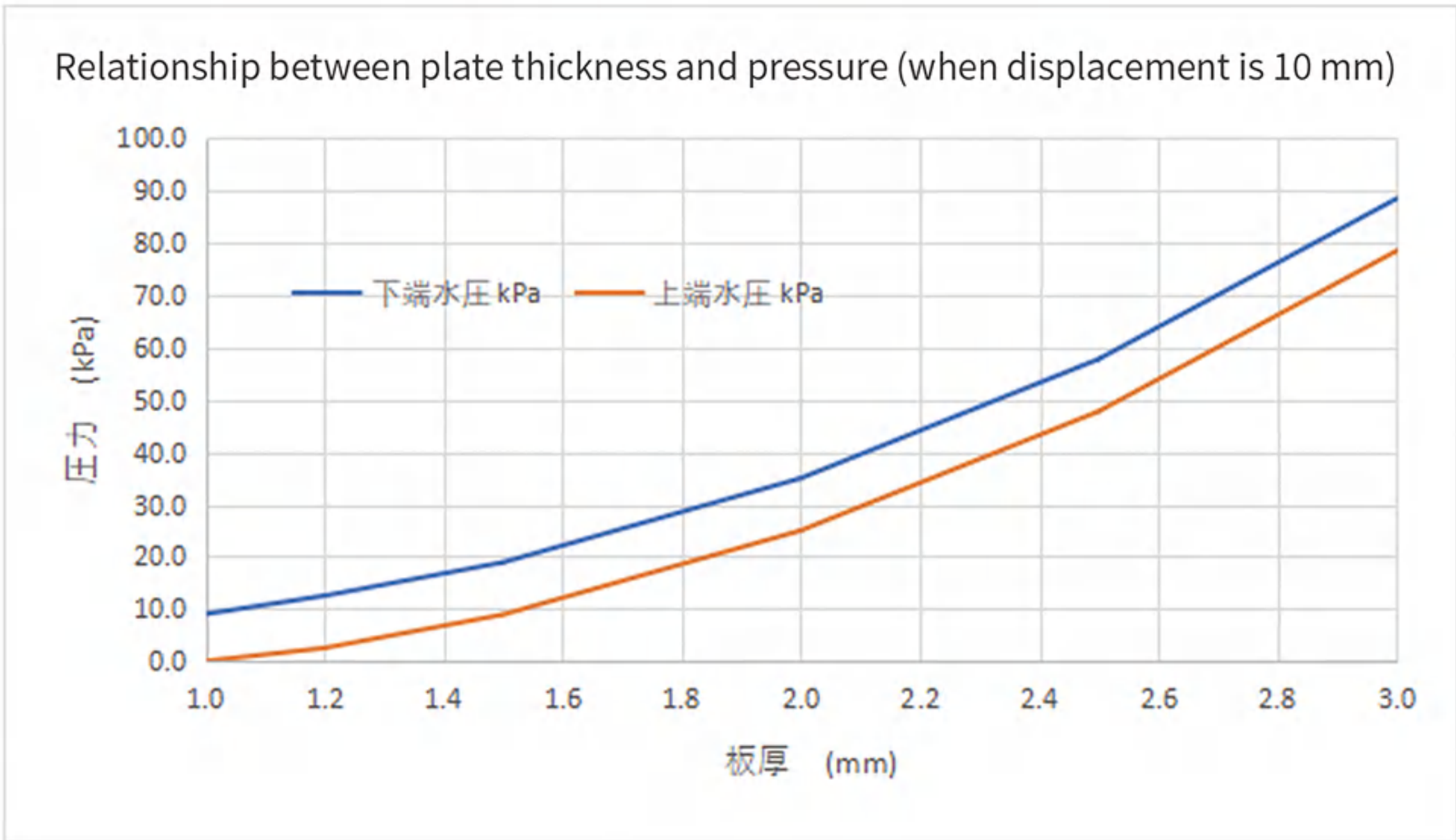
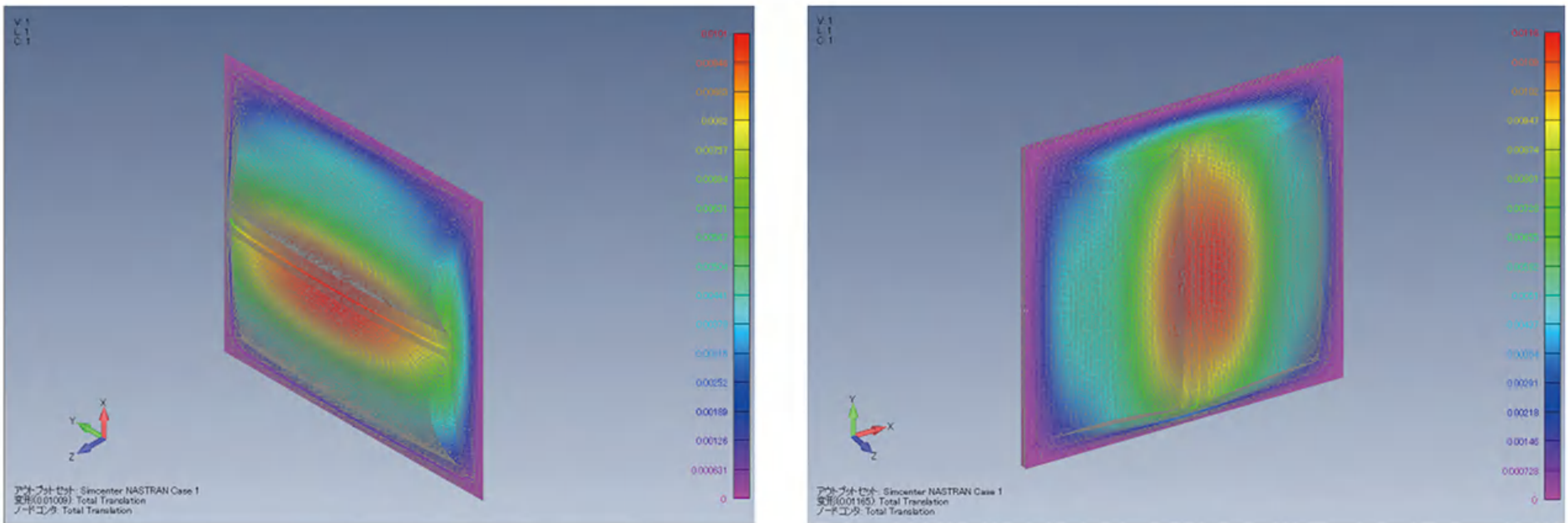


PLATE DISPLACEMENT DISTRIBUTION ANALYSIS

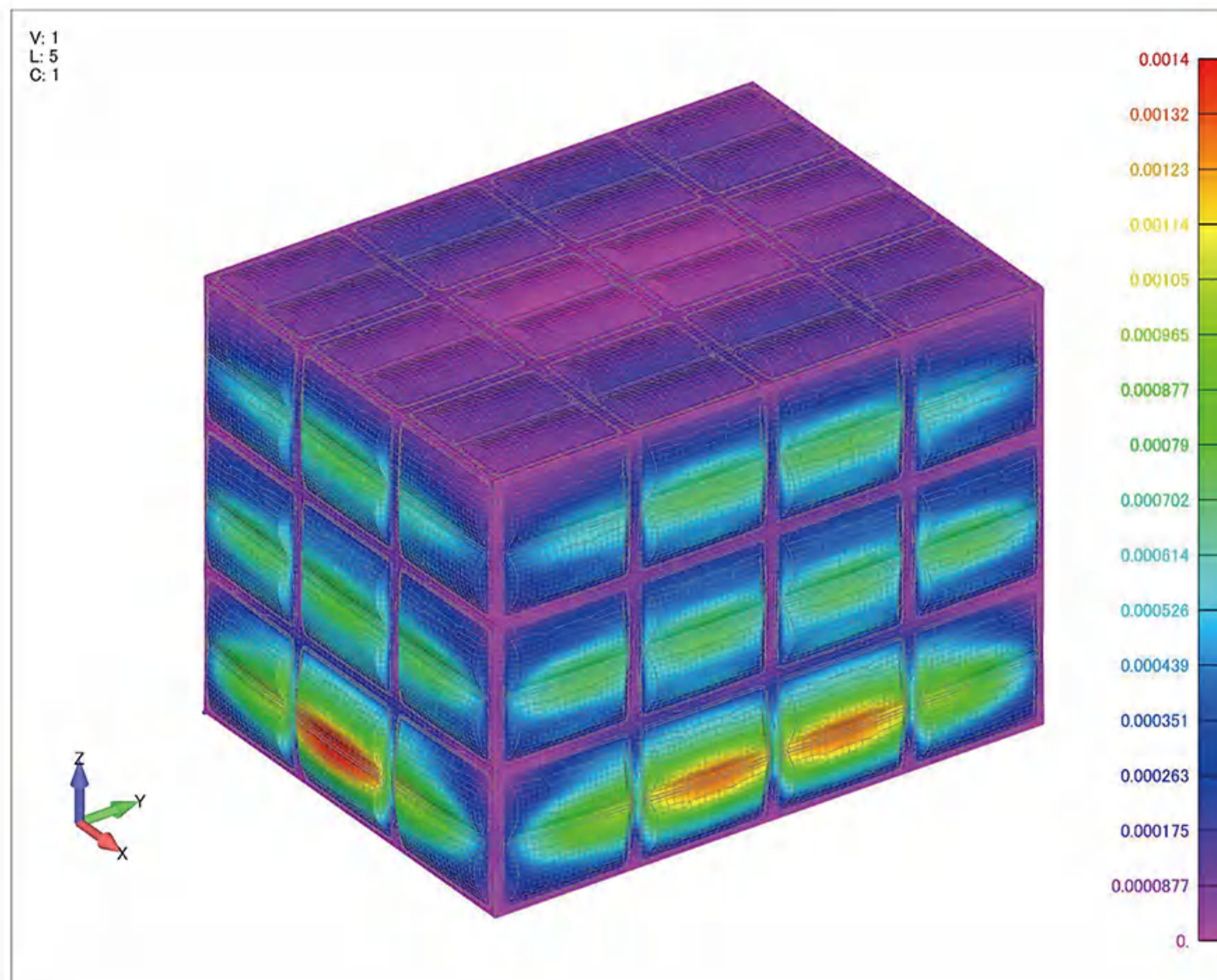
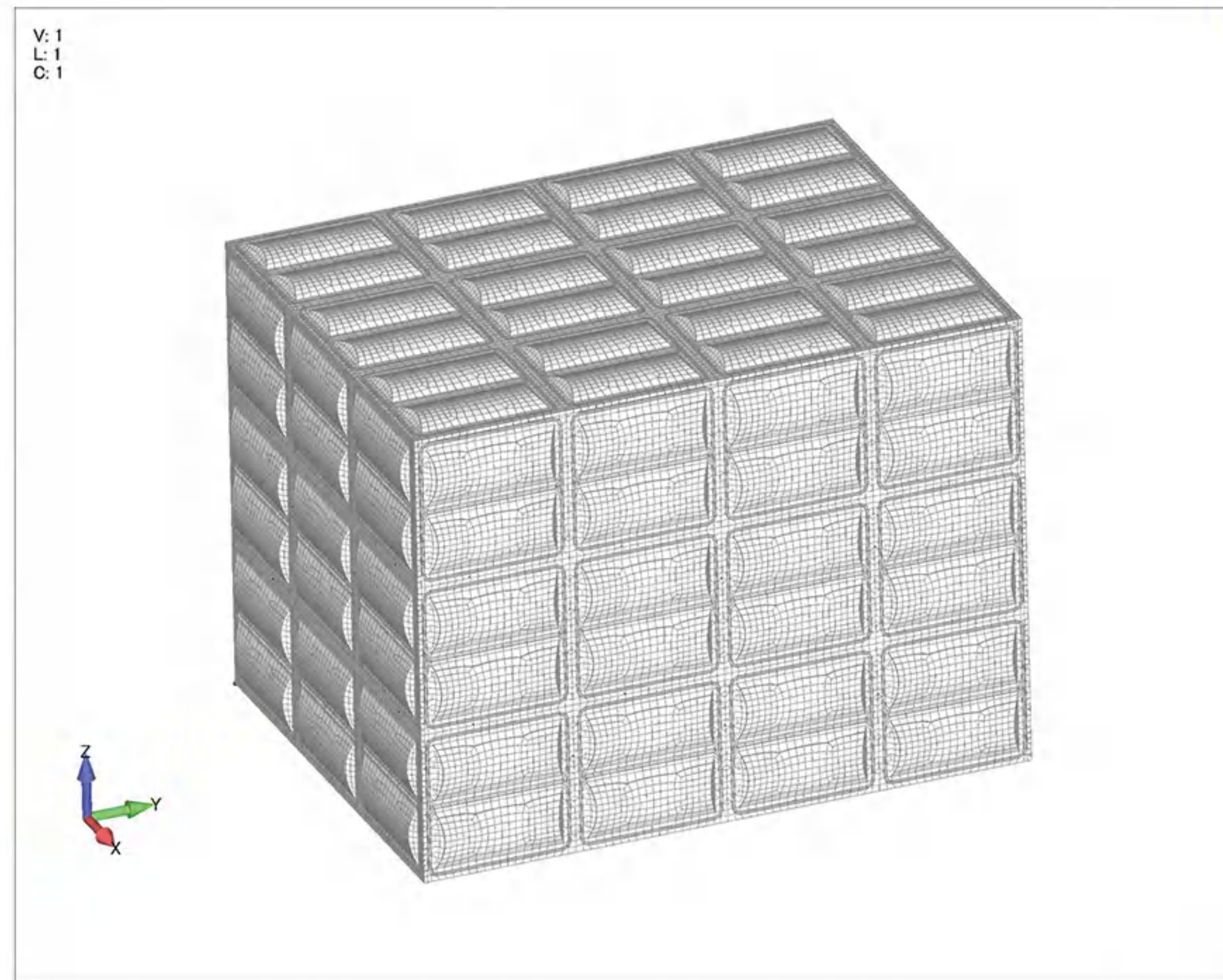


Simulation conditions: plate thickness 3 mm; pressure load 0.1 MPa (equivalent to the pressure of 10 m water); the bending end is completely fixed.

Simulation results: The redder the color, the greater the displacement. The middle part of the plate has the largest displacement, with a maximum displacement of about 11 mm.

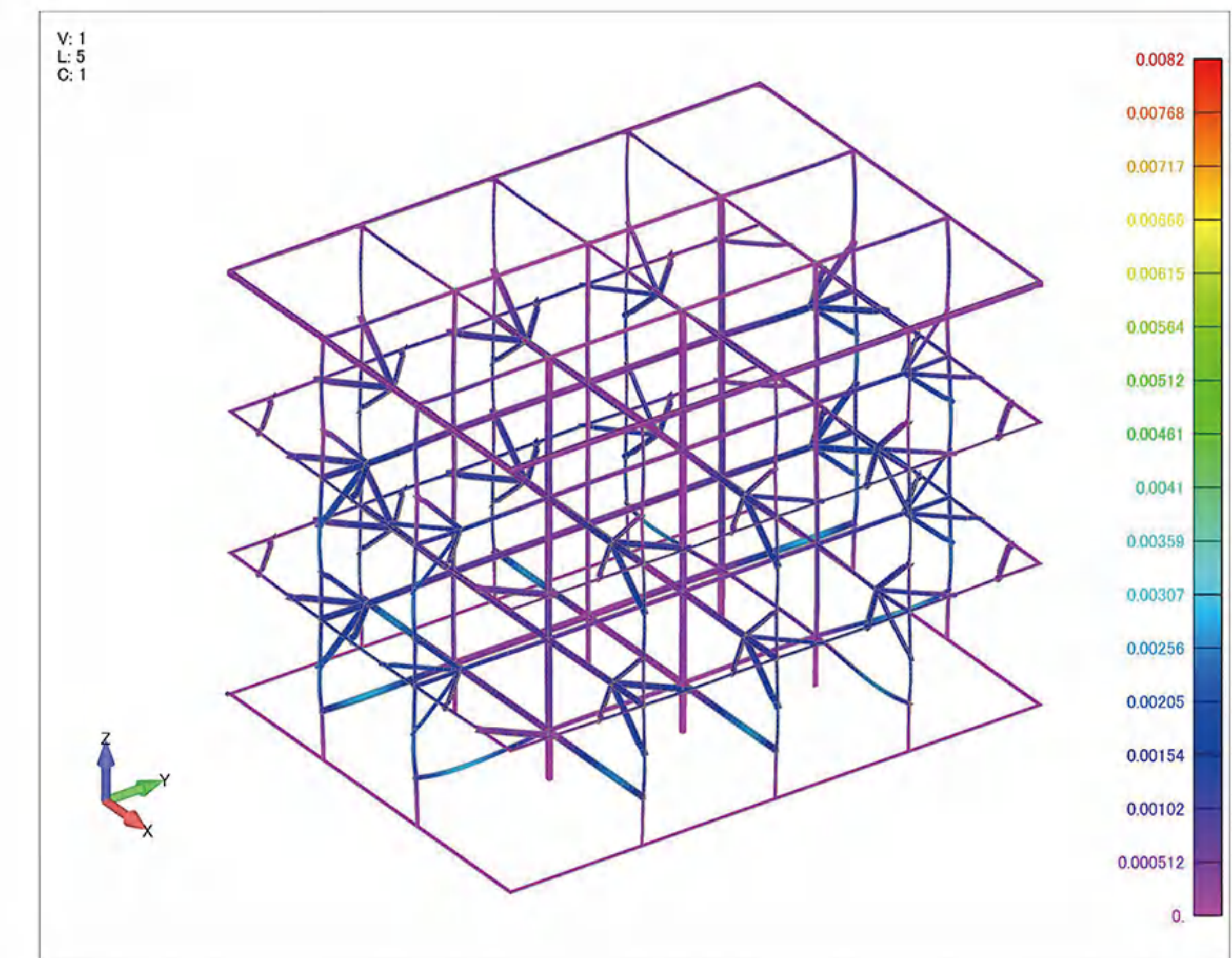
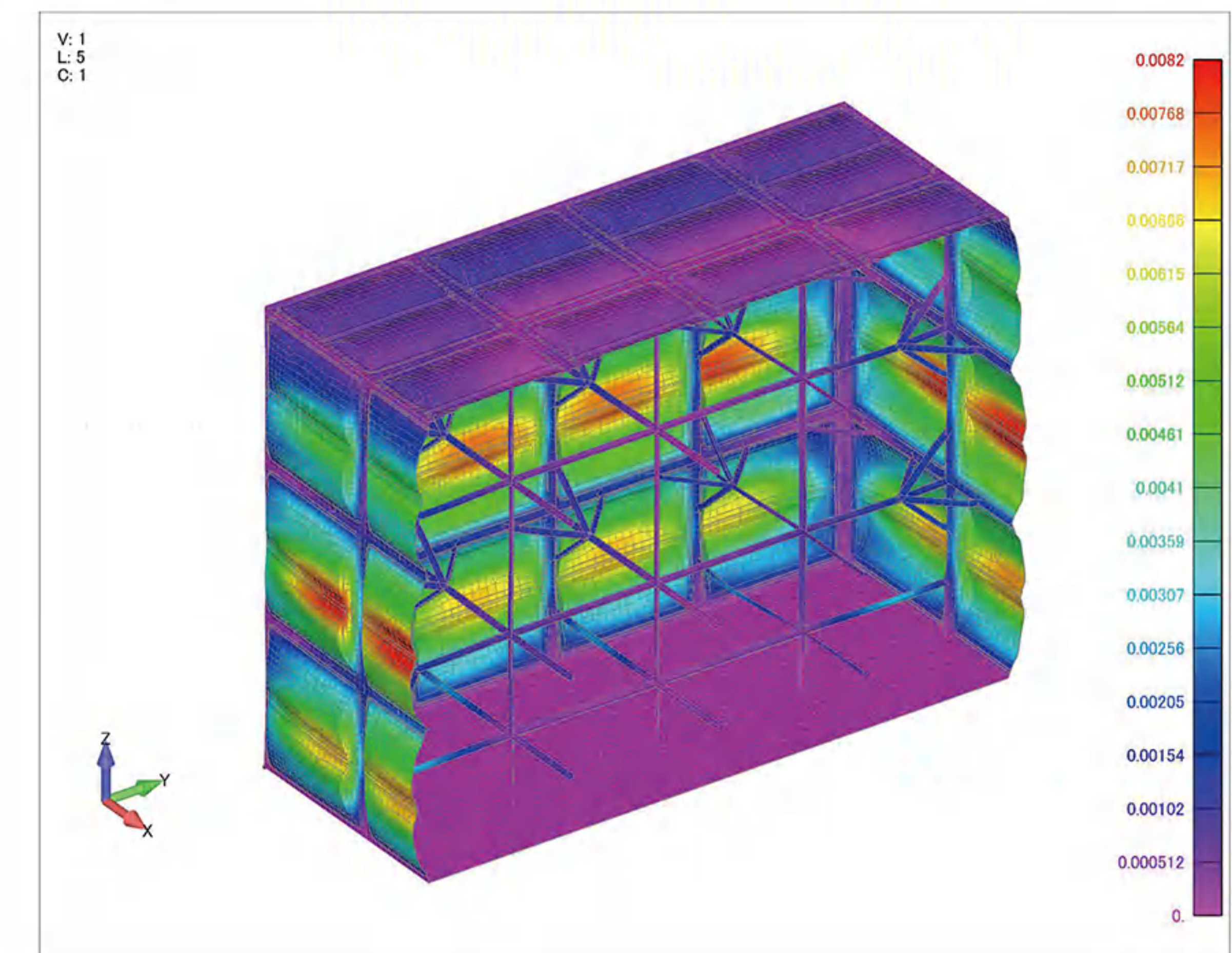
Simulation conclusion: The chocolate water tank module has better stress resistance than the arc water tank template.

THE INDUSTRY'S FIRST FINITE ELEMENT ANALYSIS OF WATER TANKS

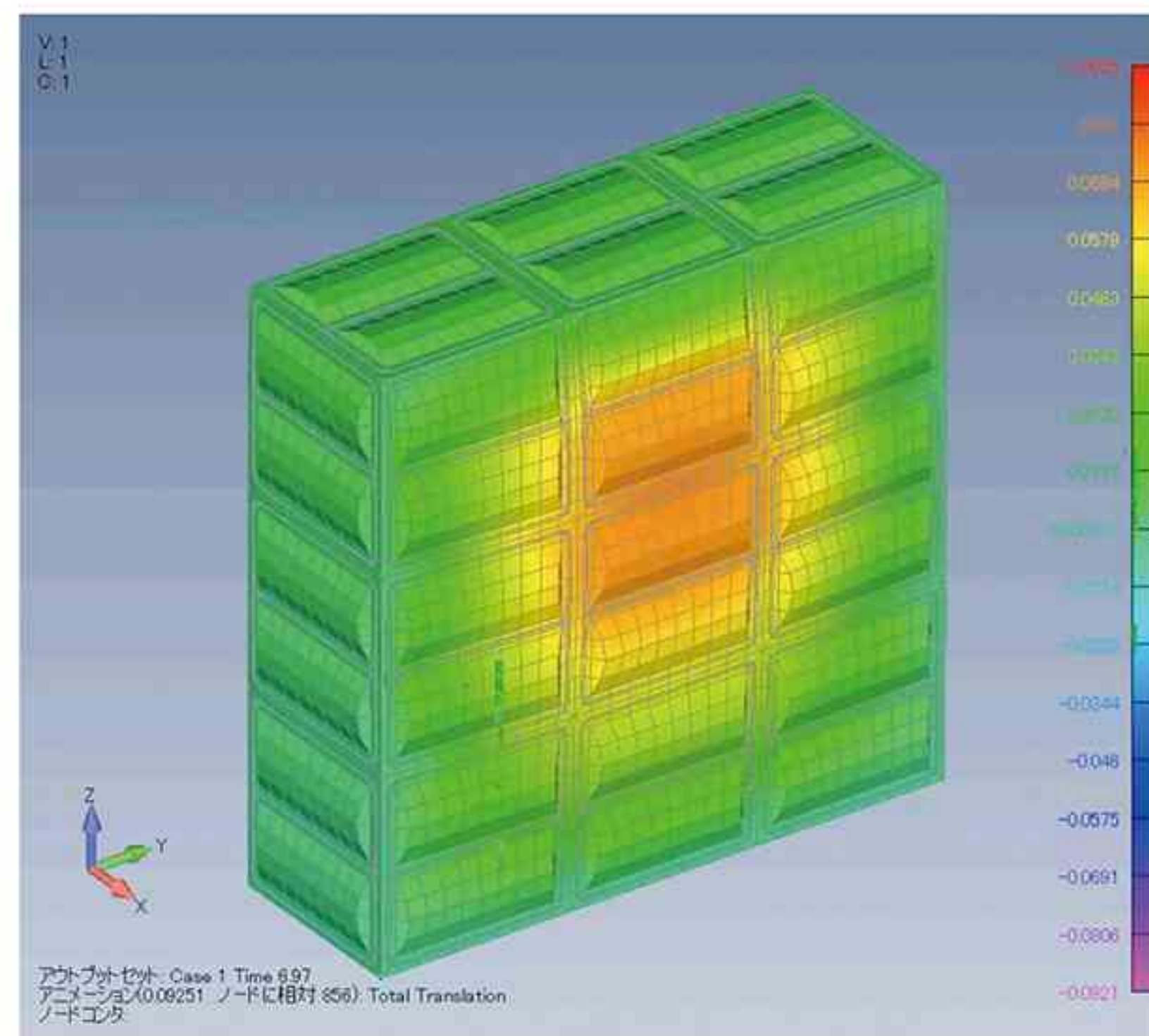
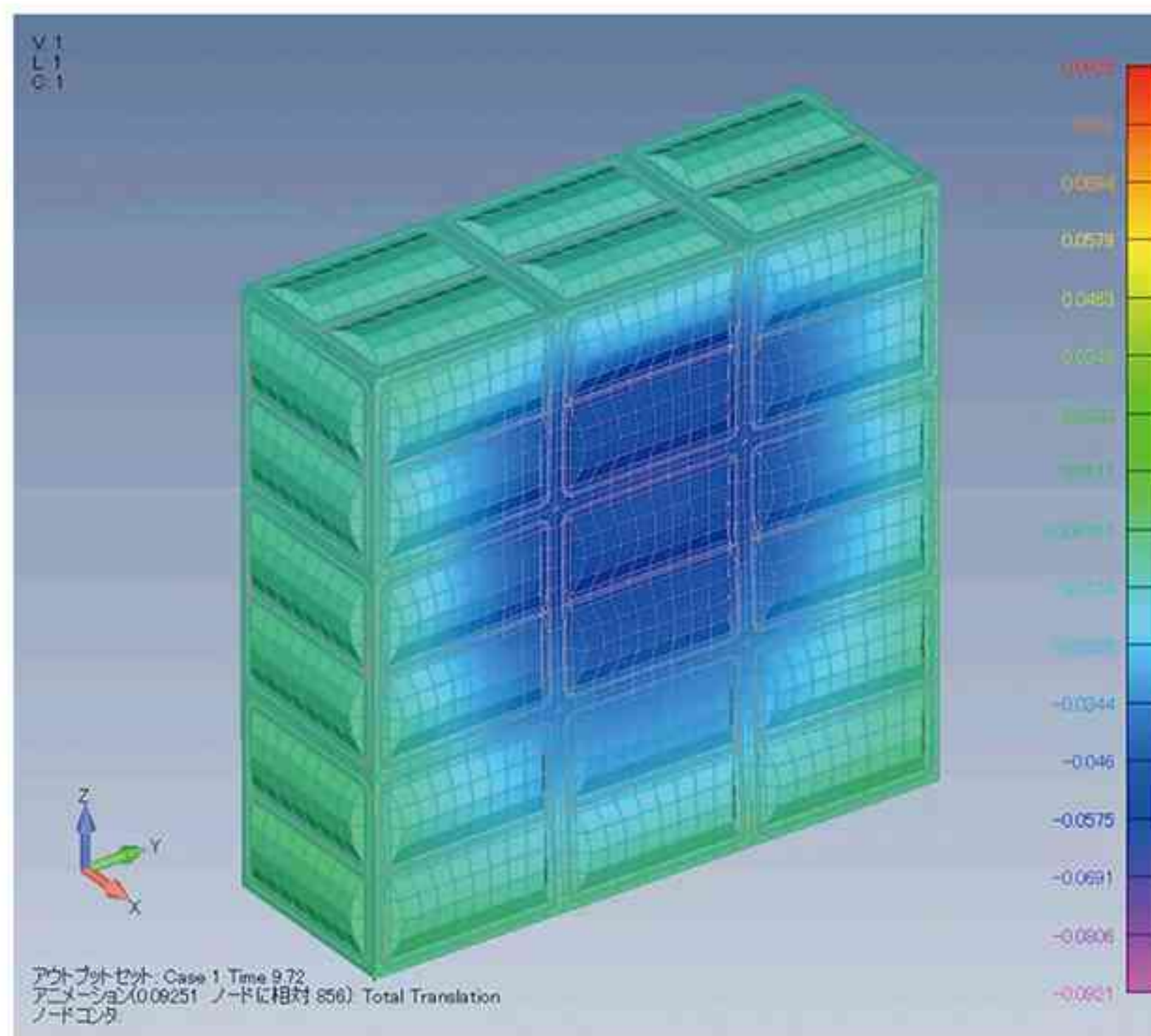
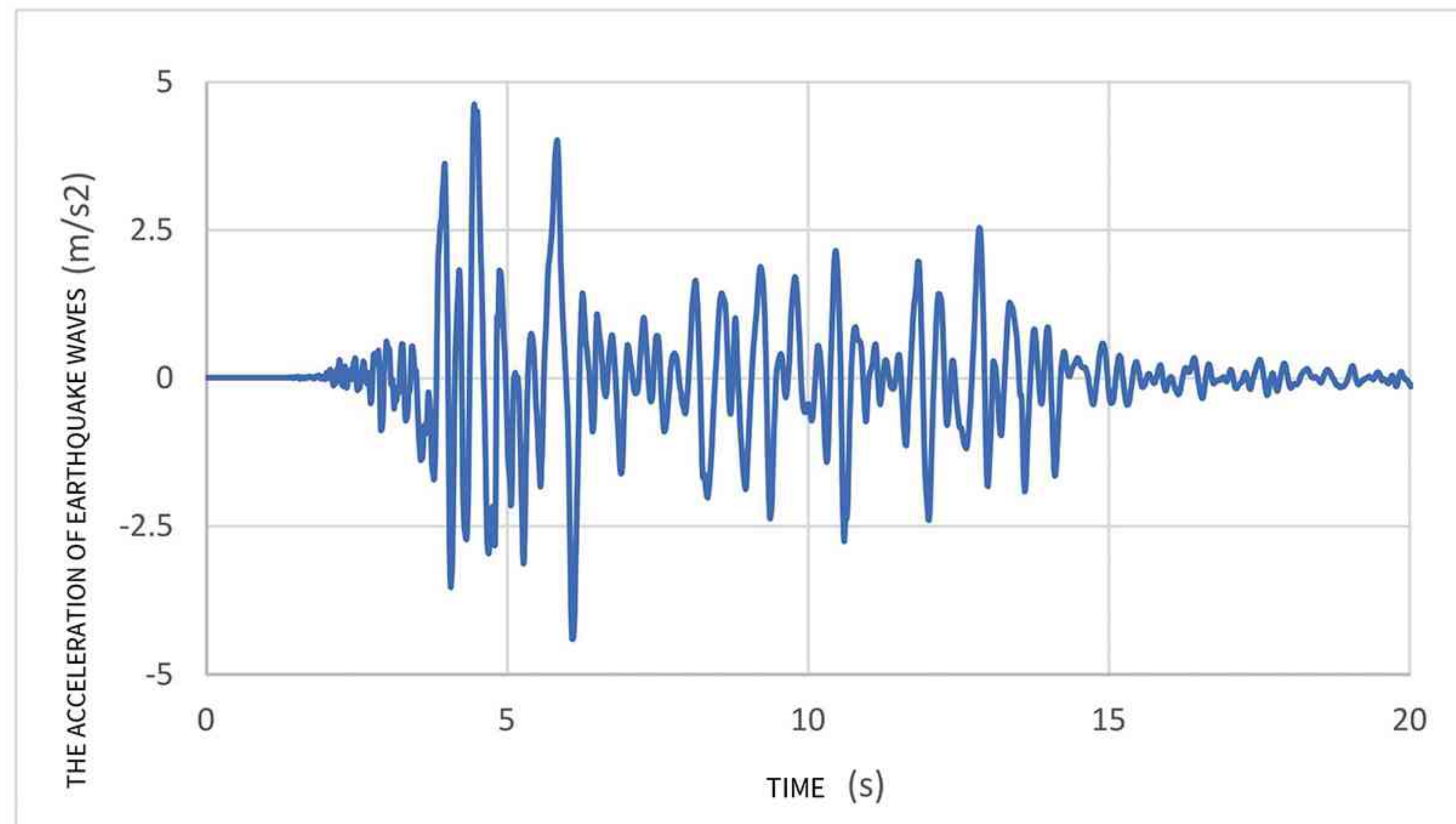


THE PURPOSE OF FINITE ELEMENT ANALYSIS

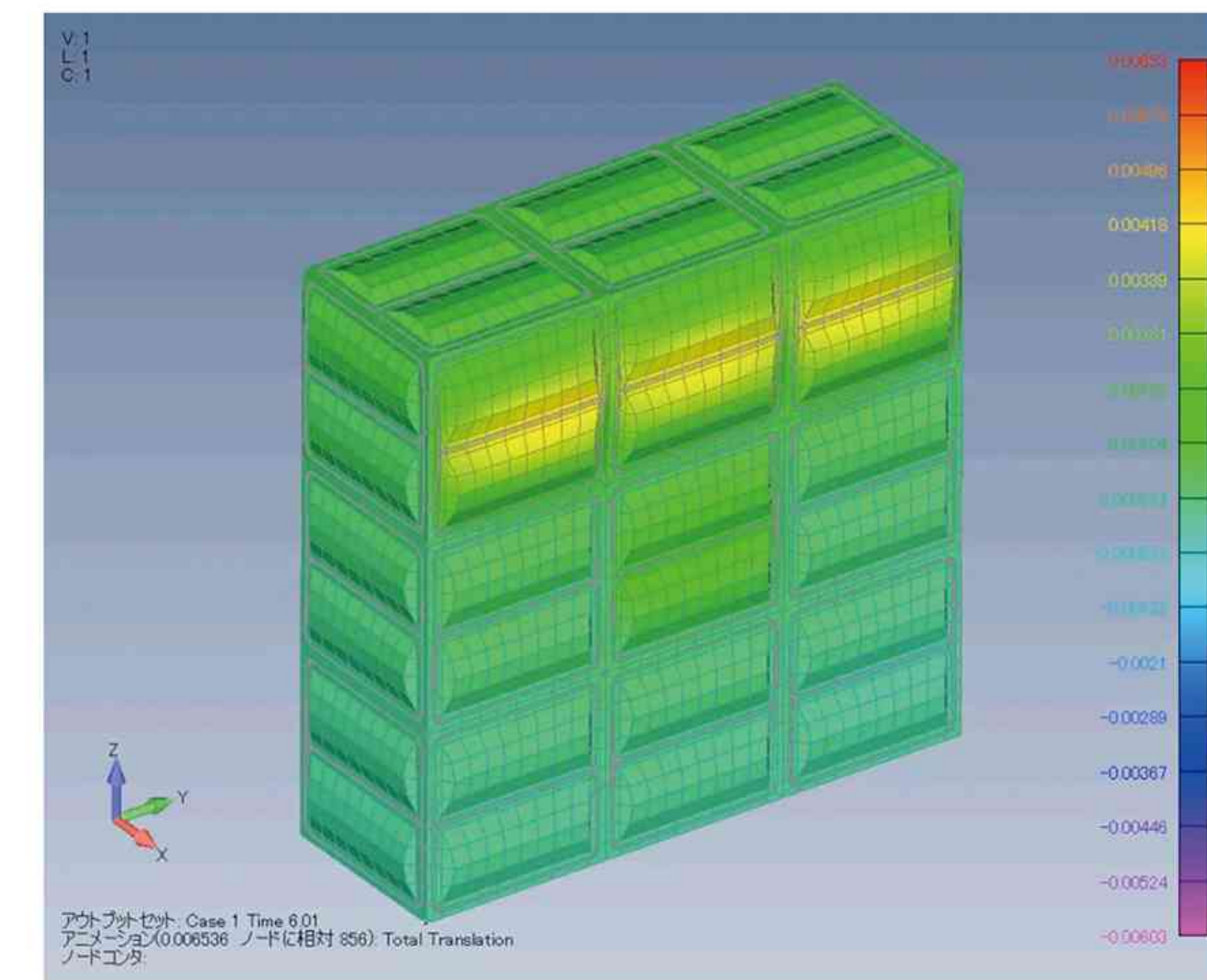
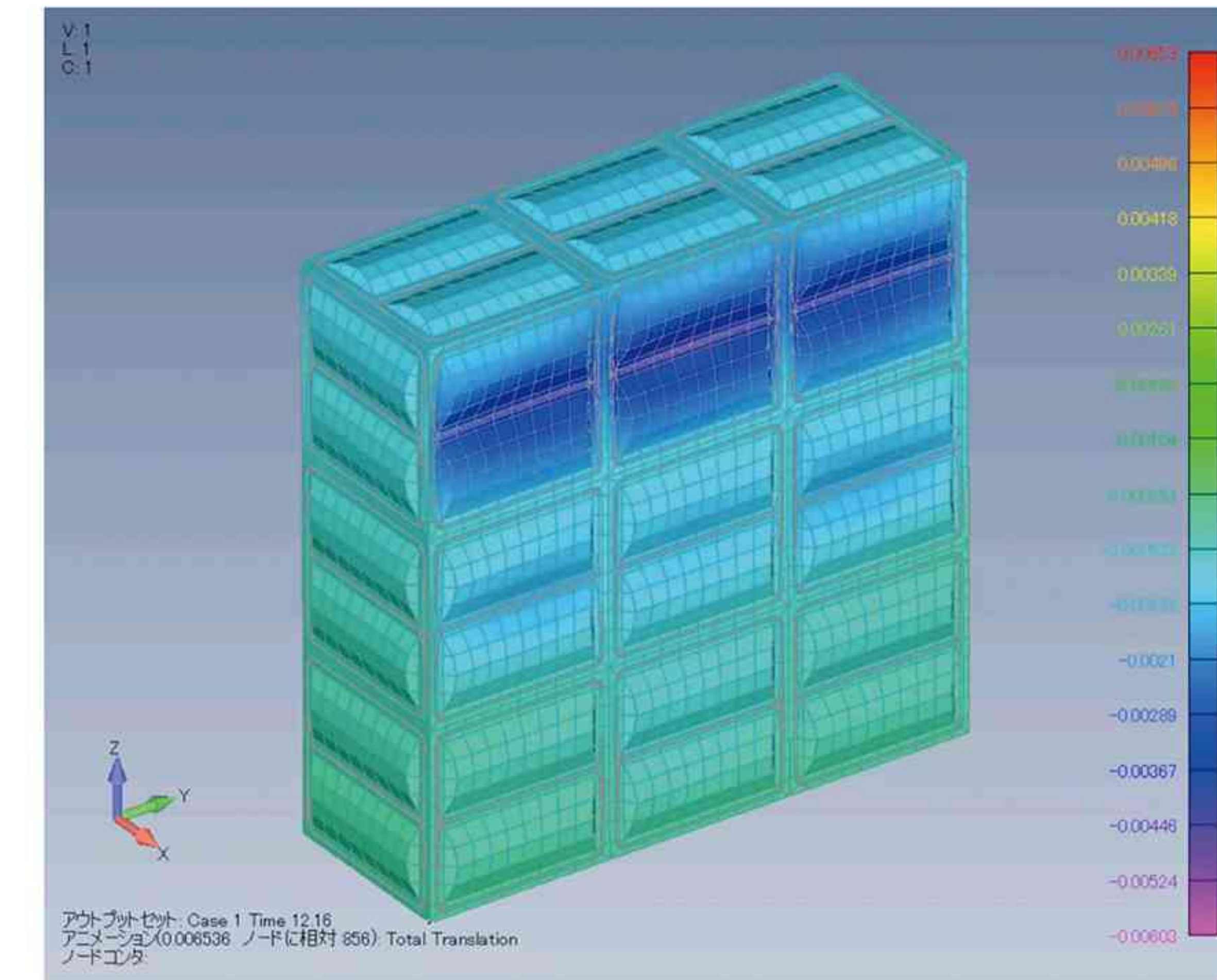
- ① Used to analyze the strength, stiffness and stability of the water tank structure, optimize the design scheme, and determine the quality of the water tank.
- ② Used to simulate fluid flow in the water tank to help design a more efficient fluid delivery system.



SIMULATING THE BEHAVIOR OF THE WATER TANK WHEN SUBJECTED TO EARTHQUAKE LOADS (DISPLACEMENT, DYNAMIC WATER PRESSURE)



It is a non-seismic structure with large deformation and large dynamic water pressure.



Earthquake-resistant structure, small deformation and small dynamic water pressure.

INSTALLATION PROCESS INSTRUCTIONS

1. MAKE A CONCRETE FOUNDATION



Outdoors, it is necessary to design a whole slab concrete foundation of suitable size according to the length and width of the water tank. The height of the foundation should generally be above 200mm, and the length and width should be larger than the size of the water tank. Usually, a 100mm margin is added to ensure the stability and load-bearing capacity of the water tank. The foundation surface needs to be leveled, and the horizontal height difference should be controlled within a certain range (such as $\leq 20\text{mm}$) to ensure the levelness of the water tank after installation.

2. INSTALL WELDING CHANNEL STEEL



The channel steel is welded according to the size of the water tank, and its size is consistent with the size of the water tank bottom plate. After the channel steel is welded, the diagonal size is measured, and the error is 0.5 cm. All welds should be connected symmetrically and the seams should be even. In addition, the channel steel should be fixed with expansion screws.



Strip foundations are generally used on indoor concrete floors, especially when the water tank is of moderate size and requires a more flexible foundation layout. The size of the strip foundation should meet the height of not less than 300mm, and the length should be adjusted according to the size of the water tank. The strip foundation should be laid evenly with a center distance of $\leq 1000\text{mm}$ to ensure uniform force on the water tank. It is also necessary to perform horizontal processing to ensure the flatness of the strip beam surface.

3. LAY THE WELDING BASE PLATE



According to the numbers and instructions on the bottom plate of the water tank, lay and weld according to the requirements of the drawings. Tungsten inert gas arc welding is required, and each plate joint must be fully welded. In addition, the bottom plate should be welded to the channel steel with angle iron to prevent the water tank from shifting.

4. ASSEMBLE AND WELD THE SIDE PANELS



Before assembly, select the module with the corresponding plate thickness according to the drawing requirements, and knock the folded edges of the module to make it level. First, spot weld the lower side plate around the bottom plate. After spot welding, measure the length error of the two diagonal lines of the surrounding square frame and it should not be greater than 2mm. After ensuring that the lower side block is overall horizontal and vertical, it can be fully welded. Similarly, assemble and weld other side plates.

6. ASSEMBLE AND WELD THE TOP PLATE



After the columns are welded, install the top plate of the water tank and weld it. Before welding, determine the welding position of the manhole.

8. INSPECTION AND WATER TESTING



5. WELDING INTERNAL REINFORCEMENT



In order to enhance the structural strength of the water tank, it is necessary to weld reinforcement ribs inside the water tank. The reinforcement ribs are divided into horizontal, longitudinal and vertical parts. The number and length of reinforcement ribs must be determined according to the water tank standard and welded. When welding, attention must be paid to the balance between the reinforcement ribs and the water tank body.

7. INSTALL WELDING ACCESSORIES



EXTERNAL LADDER WATER OUTLET LIQUID LEVEL GAUGE



MAINTENANCE MANHOLE FLOAT AND INTERNAL LADDER BREATHABLE CAP

After installation, conduct a comprehensive inspection of the stainless steel water tank to ensure that all welds are free of defects or leaks, and make additional repairs. Perform a water test, fill the water tank with water and let it stand for 48 hours (or according to specific requirements) to check for leaks and deformation. If there is no leakage or deformation, the water test is considered qualified.

DISPLAY OF SOME ENGINEERING CASES



120 tons water tank in Cote d'Ivoire, Africa



480-ton water tank in Shuigougu Village, Kayin State, Myanmar



50-ton water tank at a breeding farm in Liancheng County, Longyan City, Fujian Province



240 ton water tank with pump room in Heyuan City, Guangdong Province

DISPLAY OF SOME ENGINEERING CASES



210 ton water tank in Chengmai County, Hainan Province



240 tons water tank in Yuanling County, Huaihua City, Hunan Province



420 ton water tank with pump house in Nancheng County, Jiangxi Province



108 ton water tank in Lincang City, Yunnan Province

STAINLESS STEEL INSULATED WATER TANK

Product Description

The insulation principle of the stainless steel insulated water tank lies in its unique sandwich design. The insulation core material has good thermal insulation performance, which can effectively reduce the exchange of heat inside the water tank and the external environment, thereby maintaining the stability of the water temperature. At the same time, the inner and outer layers of stainless steel plates not only enhance the mechanical strength of the water tank, but also ensure the safety and hygiene of the water quality.



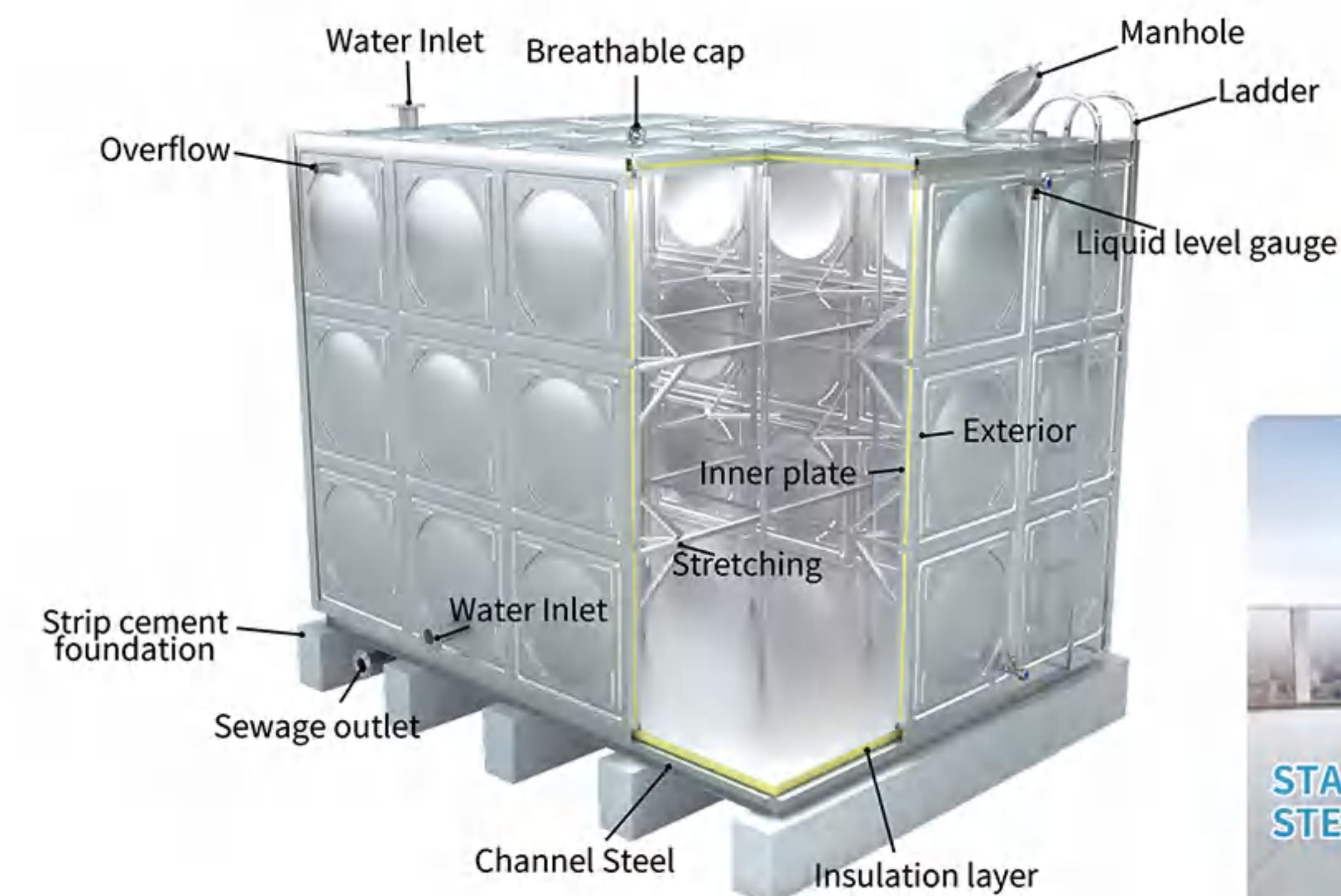
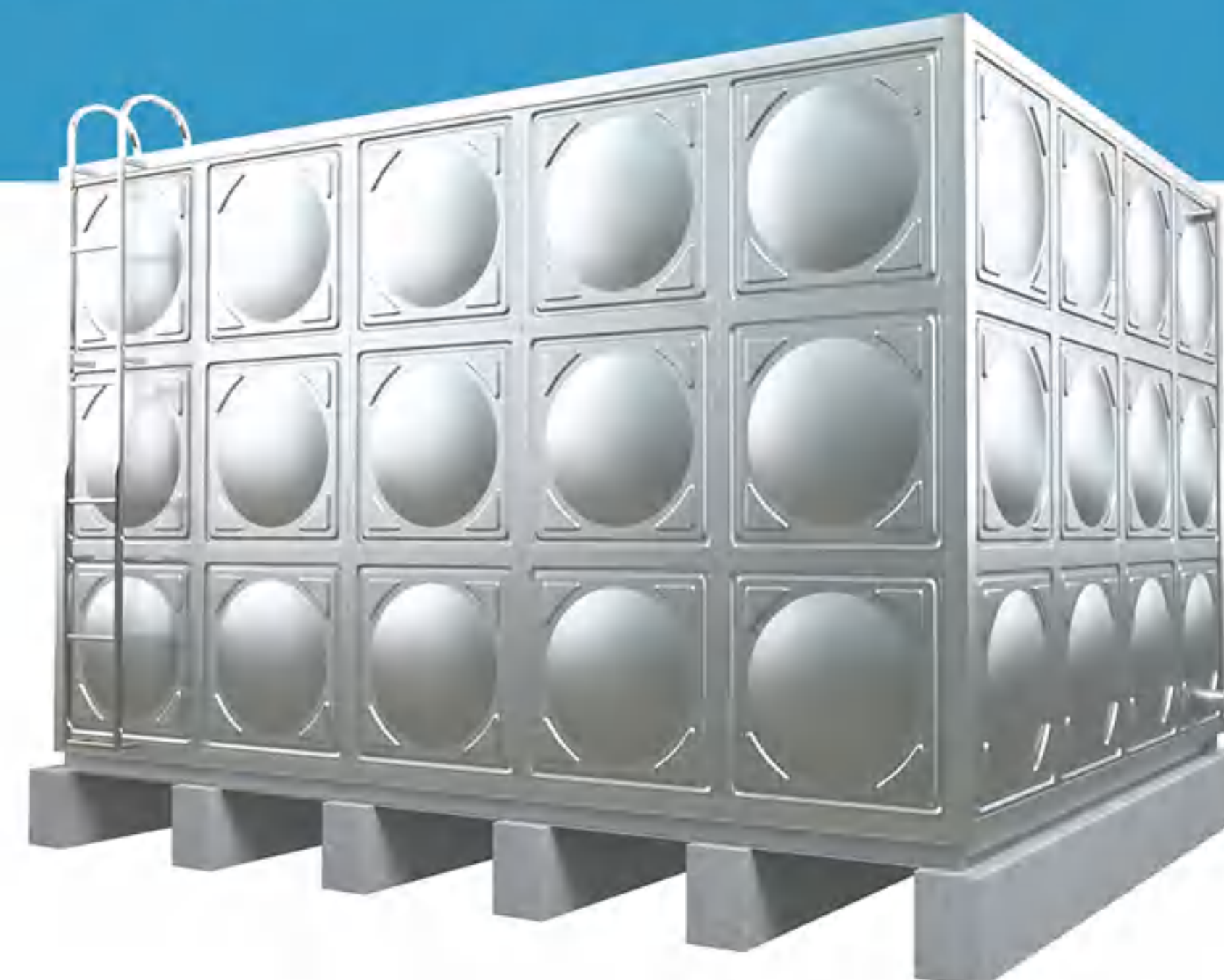
Product advantages

1. Long-term heat preservation: The interior of the water tank adopts a high-density polyurethane foam insulation layer, which effectively reduces heat loss, can maintain the temperature of hot water for a long time, save energy, and conform to the modern concept of energy conservation and environmental protection.
2. Superior material performance: Made of excellent stainless steel plates, it has good shock resistance, crack resistance and corrosion resistance, and the stored water is not easily eroded.
3. Prevent water pollution: The unique structural design plus full welding combination ensures the sealing of the water tank and effectively prevents the water quality from secondary pollution.
4. Simple and elegant appearance: The stainless steel insulated water tank has beautiful appearance and smooth lines. It can be customized into various shapes according to the needs of different places, such as polygons, L-shaped or trapezoids.
5. Easy to clean: The surface of the water tank is smooth and flat, not easy to accumulate dust and scale, and it is equipped with special drainage holes for daily cleaning and maintenance.
6. Affordable price: The price of stainless steel insulated water tanks is relatively reasonable, and the larger the capacity, the more suitable the price. At the same time, its long life and low maintenance cost also reduce the overall cost of use.

Precautions

During use, the sealing and insulation performance of the water tank should be checked regularly to ensure the safety of water quality and stable water temperature. When cleaning the water tank, special tools and cleaning agents should be used to avoid damage to the inner wall and insulation layer of the water tank. The storage environment should avoid humidity and high temperature to extend the service life of the water tank.

Finished product



Structure diagram



Application areas

1. Home application: Stainless steel insulated water tanks can meet daily hot water needs such as bathing, laundry, and dishwashing in the home. Its efficient insulation performance ensures that hot water is available at any time, which improves the convenience of family life.
2. Commercial places: In commercial places such as hotels, guesthouses, and swimming pools, stainless steel insulated water tanks can provide enough hot water for a large number of people to meet daily operational needs. Its durability and easy maintenance also make it an ideal choice for commercial places.
3. Schools, hospitals, etc.: These places usually need to provide hot water for a large number of people. Stainless steel insulated water tanks have become the preferred choice for these places with their efficient insulation performance and stable water supply capacity.
4. Industrial production: In industrial production, the production of certain materials and products requires a lot of hot water. Stainless steel insulated water tanks can store a lot of hot water and supply it in time when needed, providing a stable source of hot water for industrial production.
5. Hot water boiler equipment: Stainless steel insulated water tanks are often used as insulated water tanks for hot water boiler equipment to ensure the continuous supply of hot water and stable temperature.
6. Air source water heaters, heat pumps, and ground source hot water storage: In these systems, stainless steel insulated water tanks serve as water storage equipment that can effectively store and insulate hot water, improving the overall efficiency and stability of the system.



School



Swimming pool



Bath Center

SETUP SCRIPT



1. Make cement foundation



2. Welding Channel Steel



3. Install the bottom plate and lay the insulation layer



4. Laying the upper base plate



5. Install the side panels



6. Install horizontal and vertical reinforcement



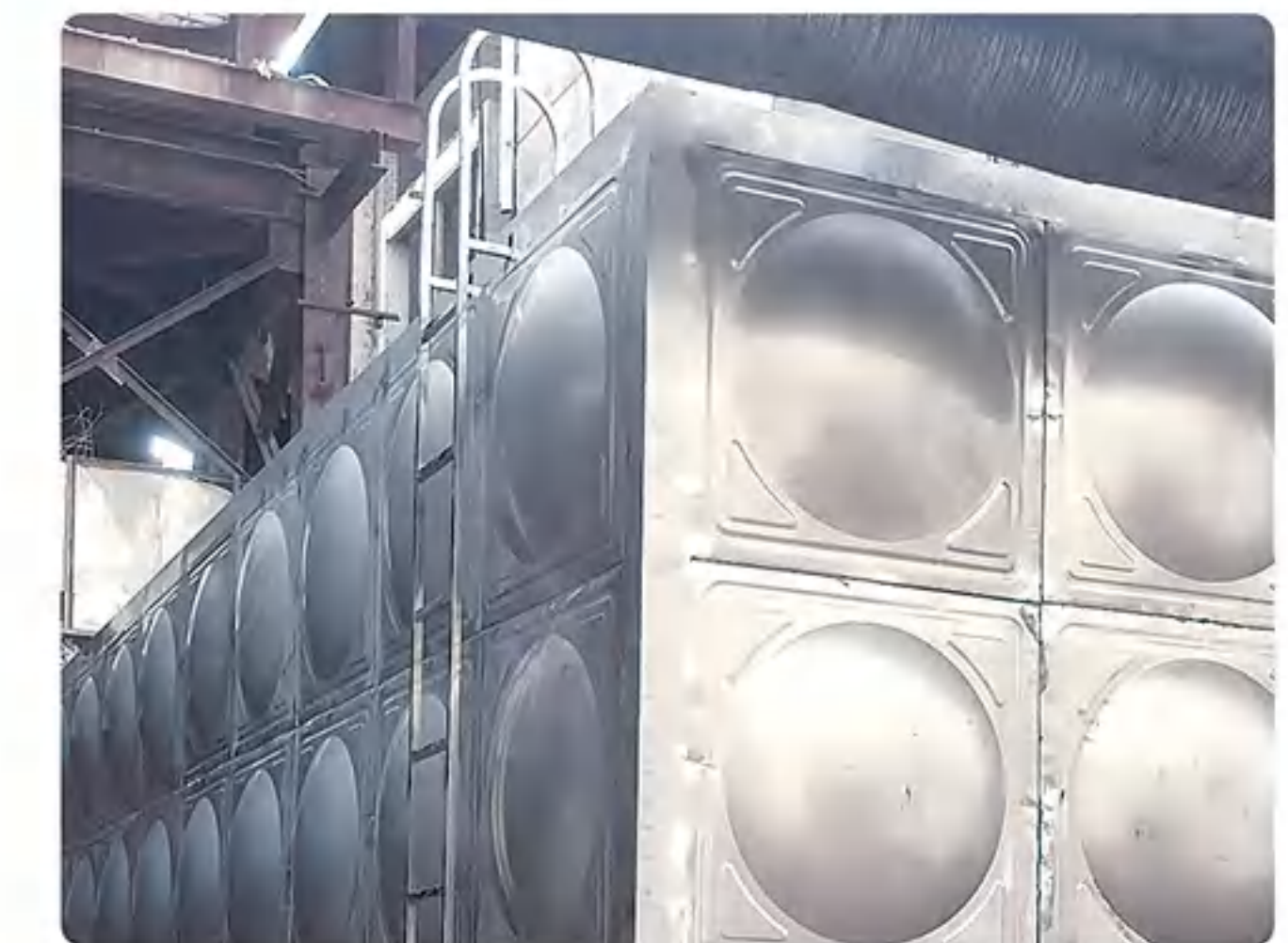
7. Install the top plate



8. Install water tank accessories



9. Welding insulation outer panels



10. Welding Edge

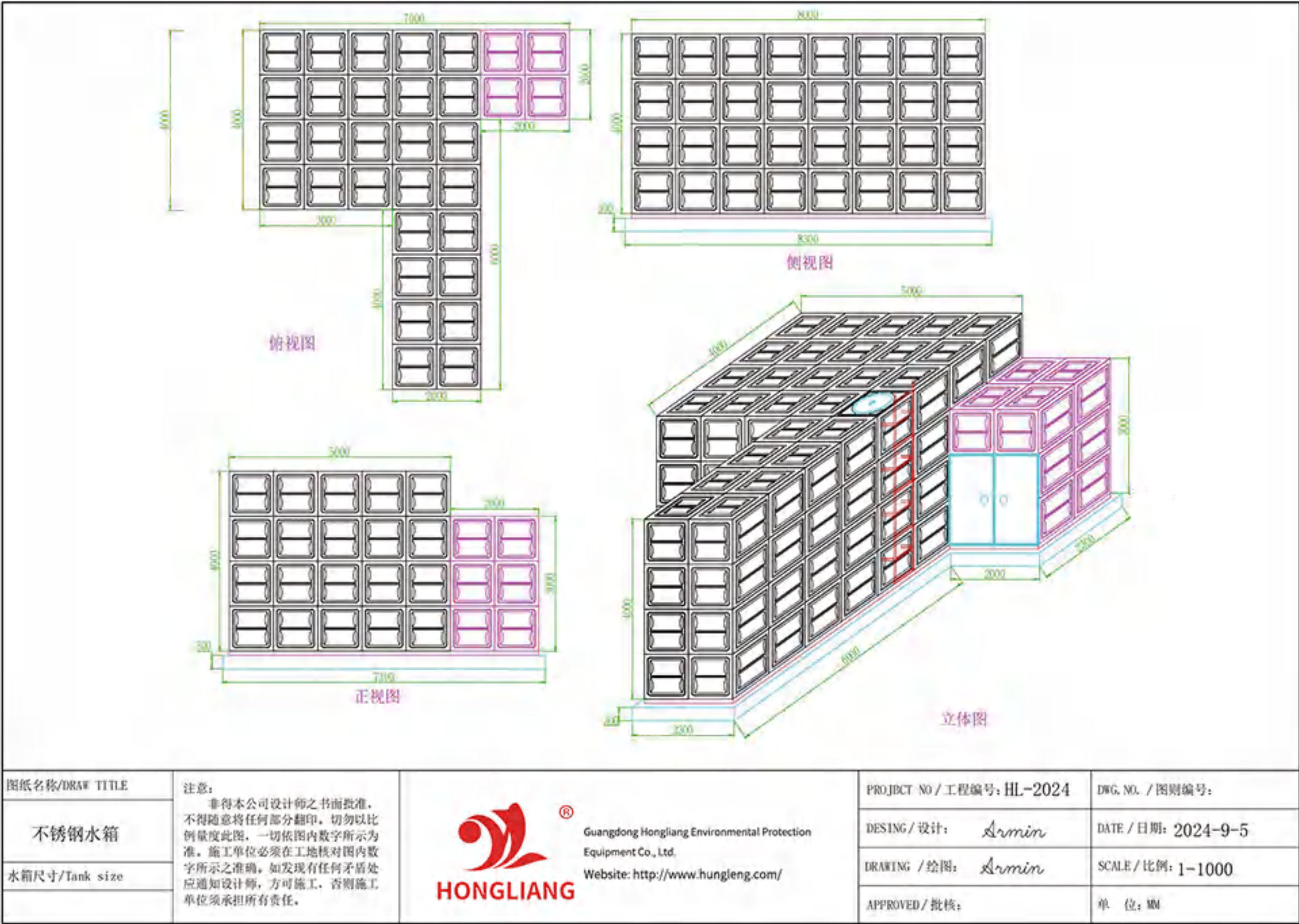
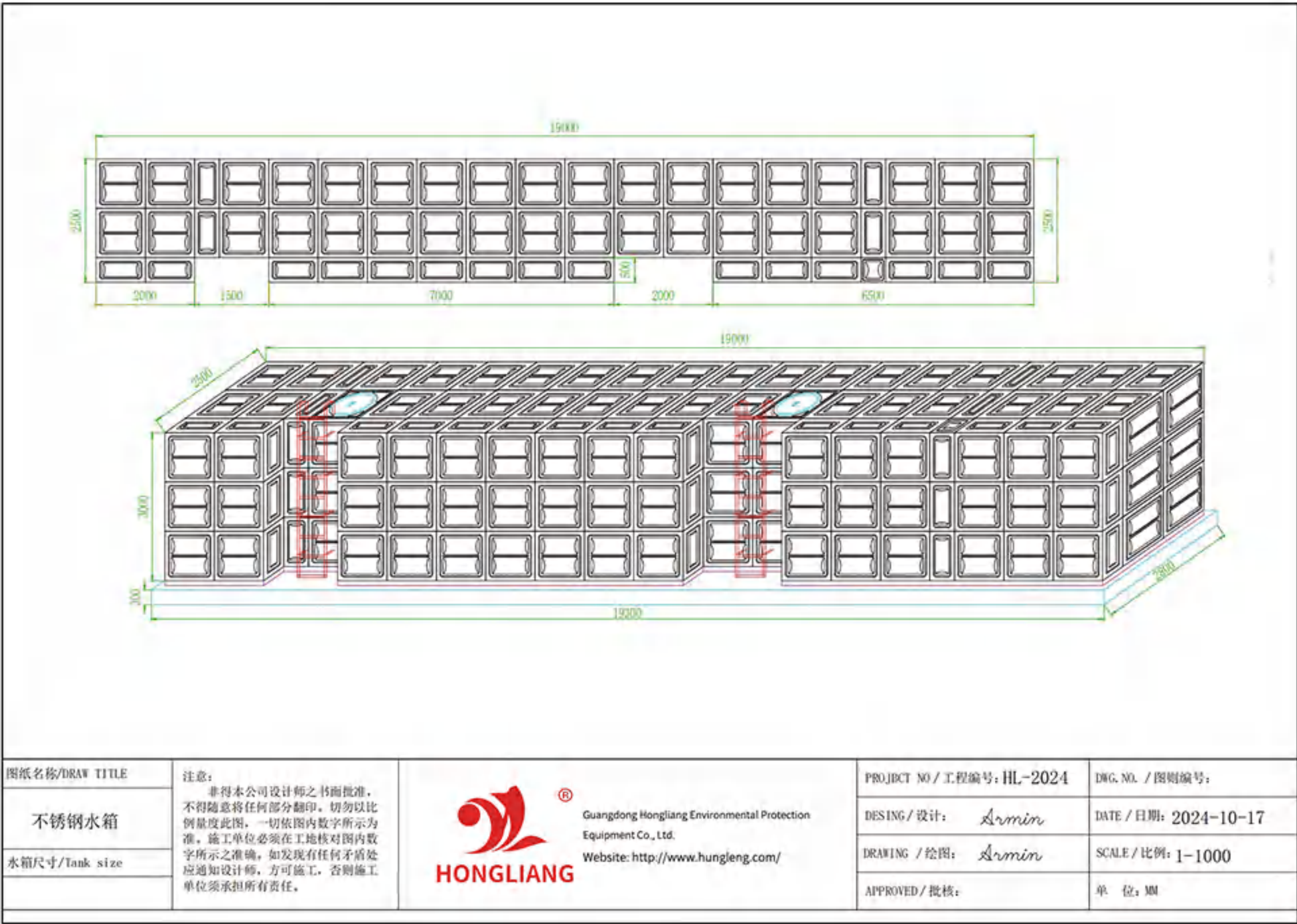


11. Install internal and external ladders

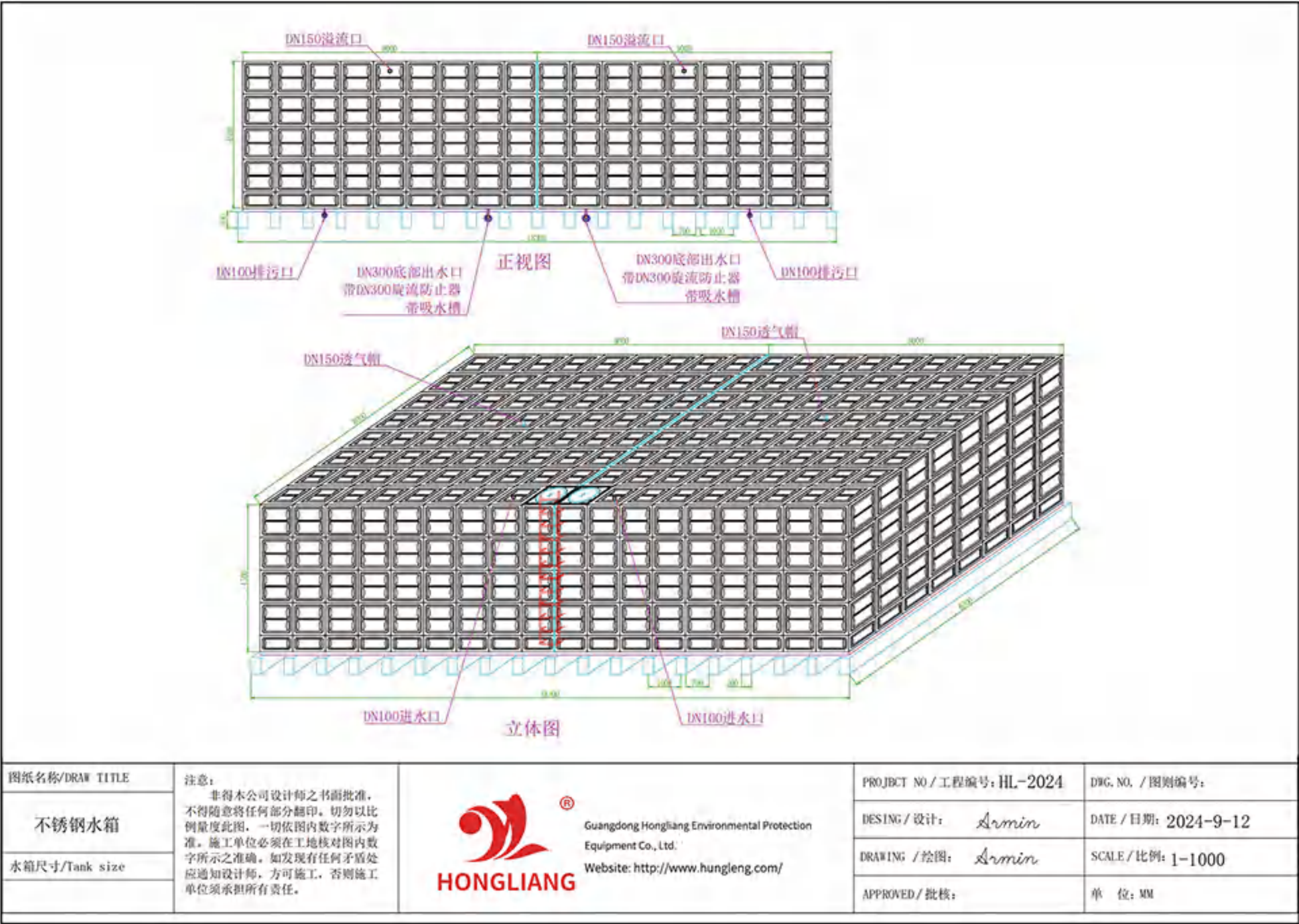
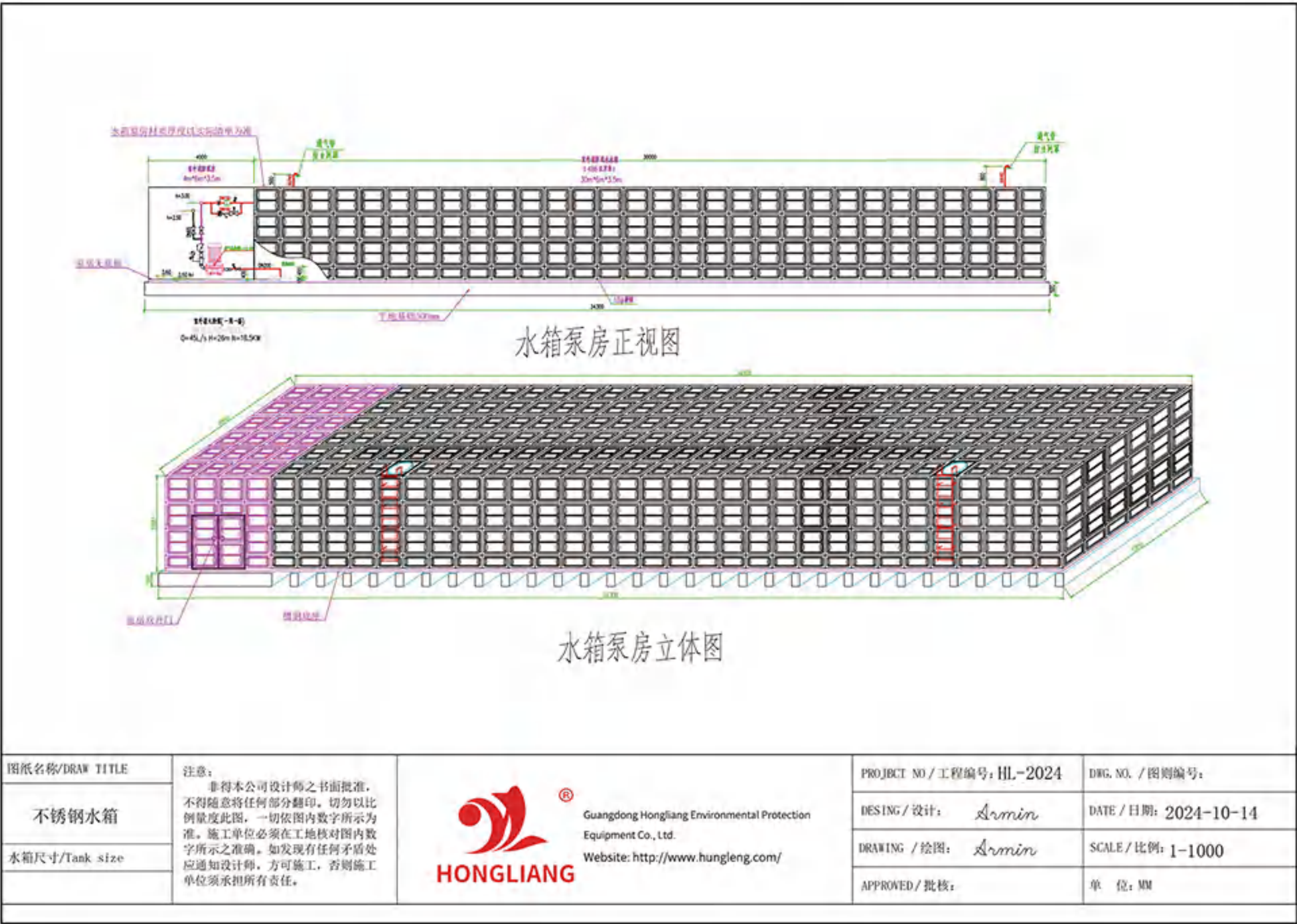


12. Installation Completed

DESIGN DRAWINGS FOR
INSULATED WATER TANK



DESIGN DRAWINGS FOR
INSULATED WATER TANK



PROJECT CASE



CENXI YANGSHENG MINING CO., LTD. 1200 TONS WATER TANK



YUNNAN BOQING CIVIL AIR DEFENSE ENGINEERING CO., LTD.
400 TONS WATER TANK

PROJECT CASE



FUJIAN TONGTIAN CONSTRUCTION ENGINEERING CO., LTD.
600 TONS WATER TANK



DONGGUAN CHENGHUI CONSTRUCTION ENGINEERING CO., LTD.
760 TONS WATER TANK

UNDERGROUND WATER TANK

Product Description

The buried water tank is named after its location. The buried water tank generally uses galvanized steel plate or a composite plate of stainless steel plate and galvanized steel plate (BDF water tank plate). The structure is modular, with DN40 hot-dip galvanized pipe + lock connection inside, which is very reliable and can be covered with soil for about 1 meter.



Product advantages

1. Solve the rust problem of water tanks and have a long service life. The box modules are all formed by one-time stretching and die-casting without welds and assembled by bolts to avoid intergranular corrosion and stress corrosion after welding;
2. After structural verification by Dongda and Southwest Institute, it fully meets the seismic requirements of the "Building Mechanical and Electrical Seismic Design Code", and the seismic intensity is 6, 7, 8, and 9 degrees respectively;
3. All parts in contact with water are made of SUS304 sanitary stainless steel;
4. Energy saving and environmental protection:
 - ① Save labor-reduced by about 50% of the construction period compared with the original welded water tank;
 - ② Save electricity-the entire assembly process does not require welding, saving more than 99% of electricity compared with the original welded water tank;
 - ③ Save energy-the product can be disassembled and recycled for the second time;
 - ④ Environmental protection-compared with the original welded water tank, it adopts a non-welding assembly type to avoid the pollution of the atmosphere and environment caused by welding smoke and arc light;
5. High strength and high rigidity: using steel with strength greater than or equal to 235, and the outer convex surface is formed by die-casting, and the rigidity is increased by more than 3 times.

Applicable fields

Underground water tanks are widely used in industrial and mining, enterprises, institutions, residences, hotels, restaurants, schools and other buildings as water storage facilities for domestic water (except drinking water), fire water, food, medicine, sanitation, etc.

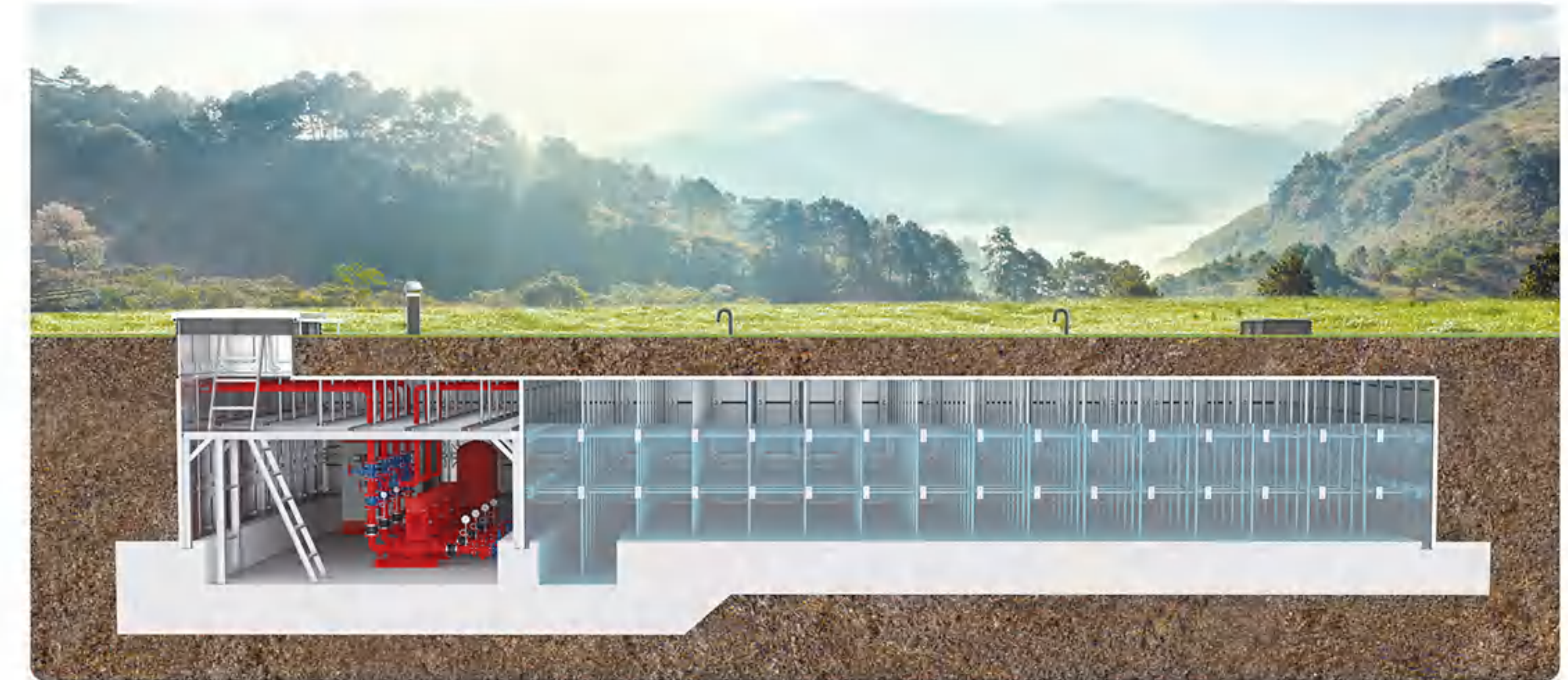
Precautions for covering soil

1. Before covering soil with integrated underground box pump, the water in the pit should be pumped out;
2. The soil used for covering soil is fine soil, without residue and stones;
3. When covering soil, the excavator should not be too close to the water tank, and the excavator should not walk on the water tank;
4. When covering soil with underground water tank, add soil from all sides, 50cm in a circle, until it is parallel to the ground.

Finished Product

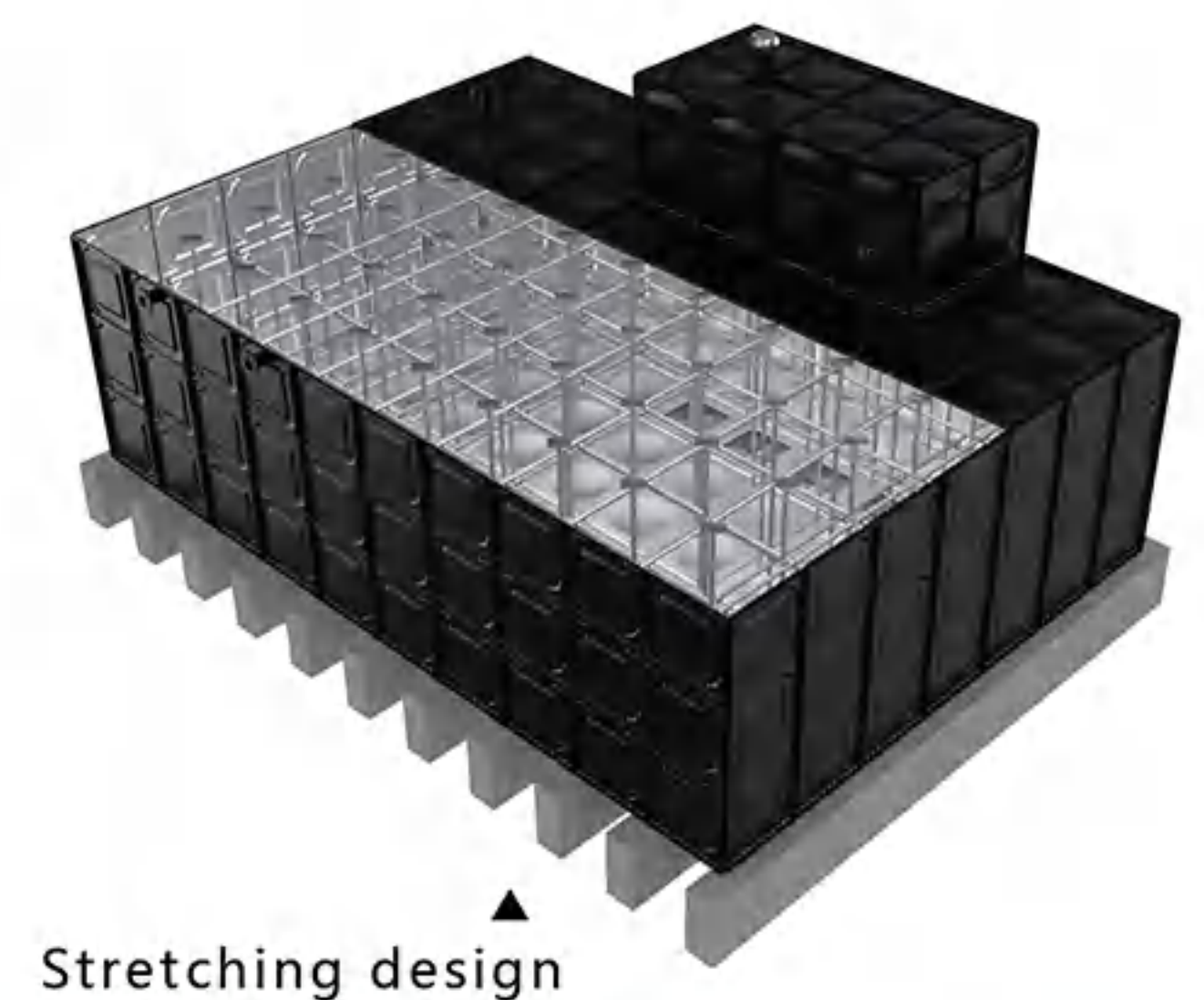


Buried effect diagram



Installation process

1. The underground water tank module uses hot-dip galvanized steel plate and stainless steel 304 first-level 2b plate to be pressed and composited by equipment to make it fit closely, so as to meet the strength of steel plate material and the corrosion resistance of stainless steel.
2. After pressing and forming, it is punched and formed by equipment to meet the assembly requirements of standard modules.
3. On-site assembly and foundation channel steel are treated with international hot dip treatment, and each beam is combined with a spacing of 1 meter, and so on.
4. Assemble according to the requirements of the drawings, assemble with hot-dip galvanized screws and water-resistant rubber strips. After the water tank is assembled, install the reinforcement and top column. The reinforcement is hot-dip galvanized for tensioning, and is installed vertically and horizontally every 1 meter. The top column uses hot-dip galvanized pipes with 4 uniformly distributed sealing treatments per square.
5. According to the pump station, install the pump room and pump room surface screws, and the pump room is stabilized with I-beams. After the installation is completed, check and accept to check that the tightening is not missed.
6. Clean the remaining accessories in the water tank.
7. Cover the soil and do a good job of on-site cleaning.



Stretching design



PROJECT CASE



Anhui Yuhong Construction Engineering Co., Ltd. 600 tons water tank

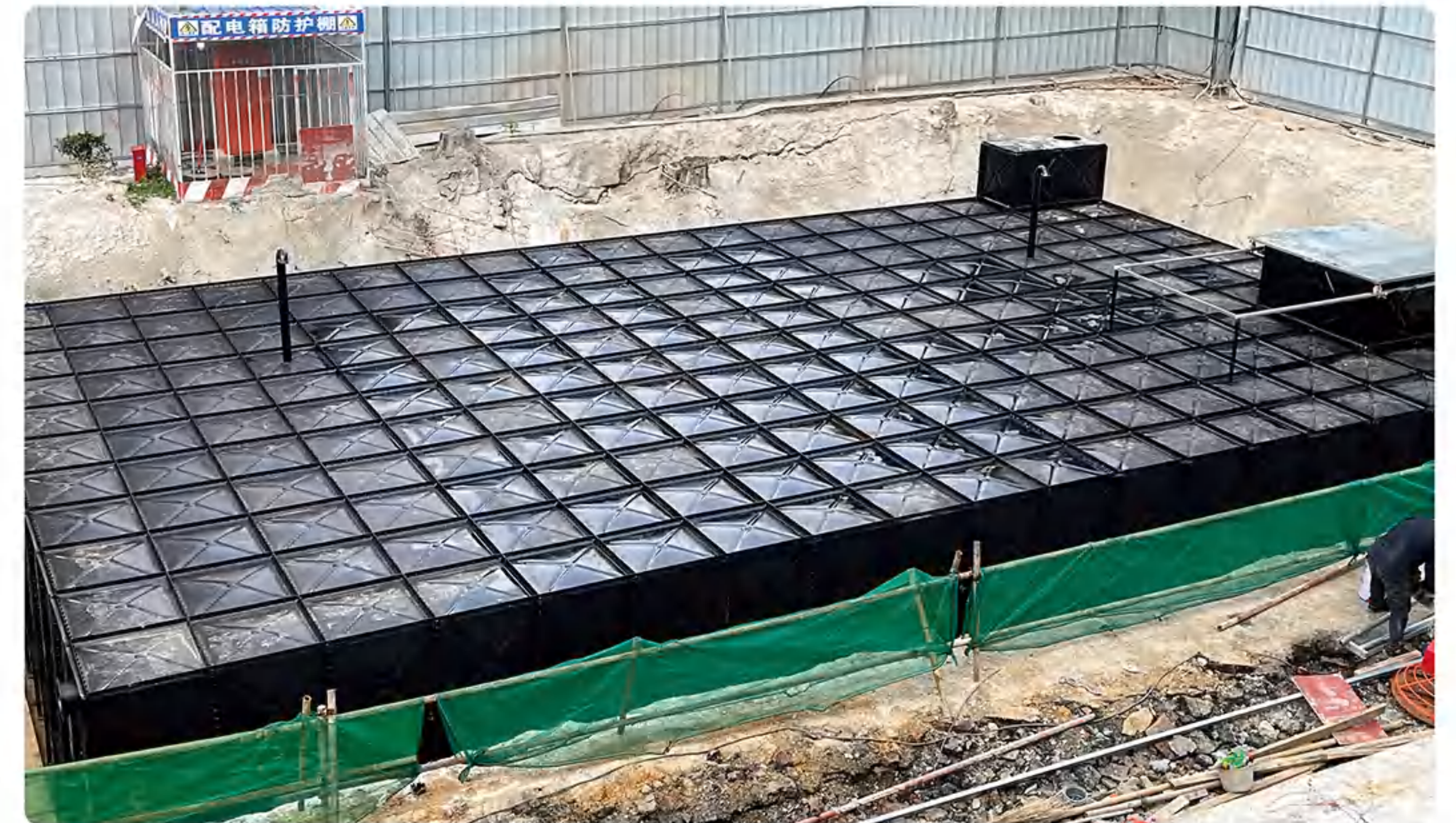


Guangdong Baotaisen Construction Engineering Co., Ltd. 660 tons water tank

PROJECT CASE



Guangxi Ruihong Construction Group Co., Ltd. 350 tons water tank



Hunan Dexing Construction Co., Ltd. 720 tons water tank

FRP/SMC WATER TANK

Product Description

Fiberglass water tank, also known as FRP water tank or SMC water tank, is a water tank product made of fiberglass reinforced plastic (FRP) or SMC (sheet molding compound). It combines the high strength of fiberglass with the corrosion resistance of plastic, has many advantages, and is widely used in construction, industry, agriculture and other fields. As an environmentally friendly, energy-saving and efficient water treatment equipment, fiberglass water tank will be more and more popular in the market.



Product advantages

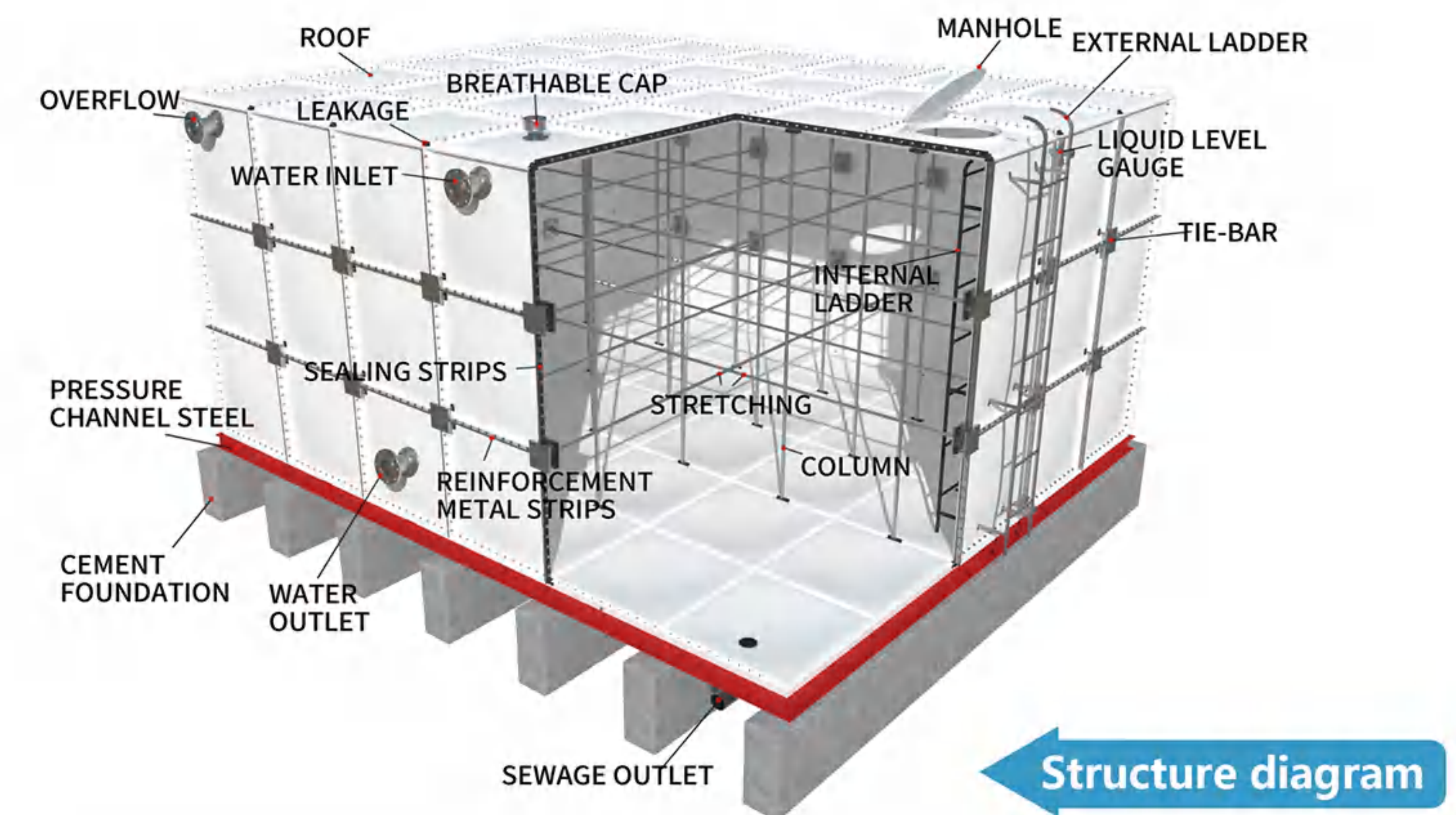
1. High strength: The FRP water tank has high strength and can withstand greater pressure, which is suitable for various environments and usage scenarios.
2. Corrosion resistance: The FRP material has good corrosion resistance to most chemical media, is not easily affected by water quality, and can keep the water quality clean for a long time.
3. Strong weather resistance: It can resist the erosion of natural factors such as ultraviolet rays, wind and rain, is not easy to age, and has a long service life.
4. Easy installation: The water tank has a compact structure and is easy to install. It can be installed in combination as needed to save space.
5. Environmental protection and pollution-free: The FRP material is non-toxic and harmless, will not cause secondary pollution to the water quality, and meets environmental protection requirements.
6. Clean and pollution-free: Food-grade resin is used, the water quality is good, and it is clean and pollution-free.
7. Beautiful appearance: The FRP water tank has a beautiful appearance and is suitable for various building environments.

Precautions:

1. Prevent external pollution: In order to facilitate the inspection of the safe use of the water tank and prevent pollutants from flowing into the FRP water tank from the outside, be sure to leave a certain space around the water tank to take emergency measures.
2. Avoid impact: Avoid heavy objects hitting the water tank to avoid damage or deformation of the water tank.
3. Check the sealing material regularly: Sealing materials such as silicone or polyurethane may age. Check and replace the sealing material regularly to prevent leakage and corrosion.



Finished Product



Application fields

1. Construction field: used in water supply and drainage systems of high-rise buildings and residential areas to provide stable and reliable water quality assurance.
2. Industrial field: used in chemical, pharmaceutical, electric power and other industries to store and process various liquid media to ensure the smooth progress of the production process.
3. Agricultural field: used in farmland irrigation, aquaculture, etc., to provide clean irrigation water and breeding environment.
4. Hot water system: as supporting equipment for hot water equipment such as solar water heaters and air source heat pump water heaters, it provides stable and efficient hot water supply.
5. Rural drinking water project: in rural drinking water projects, FRP water tanks can be used as water storage equipment to ensure the drinking water safety of rural residents.
6. Swimming pool facilities: used in swimming pools, water parks and other places as storage and regulation equipment for pool water.
7. Environmental protection field: in environmental protection fields such as sewage treatment and seawater desalination, FRP water tanks can be used as one of the important water storage equipment.



Residential area



Water Park



Agricultural irrigation

PROJECT CASE



Tanzania project 600 tons water tank



Cambodia Poipet project 150 tons water tank

PROJECT CASE



900 ton water tank of Shanghai Dapu Industrial Co., Ltd.



Jiangxi Longxiang Lithium Battery Co., Ltd. 200 tons water tank

STAINLESS STEEL BOLT WATER TANK

Product Description

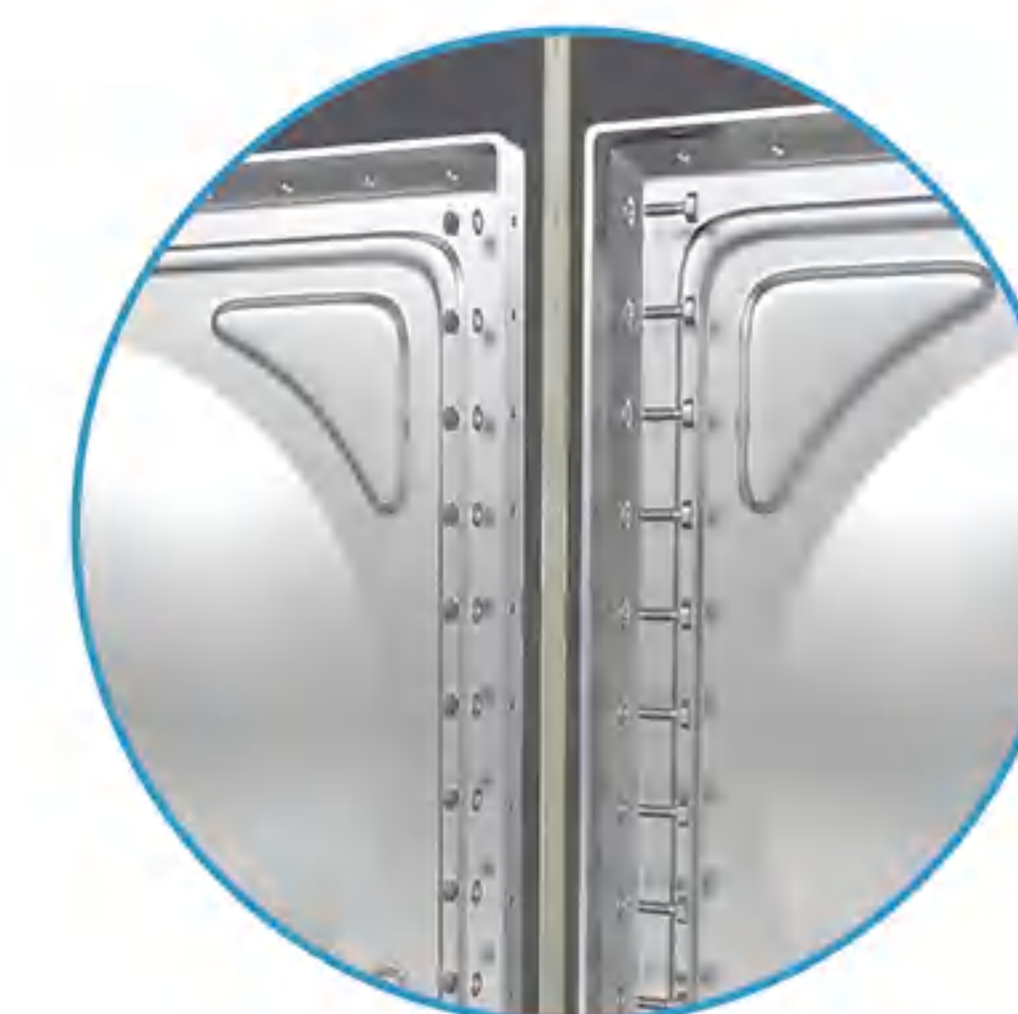
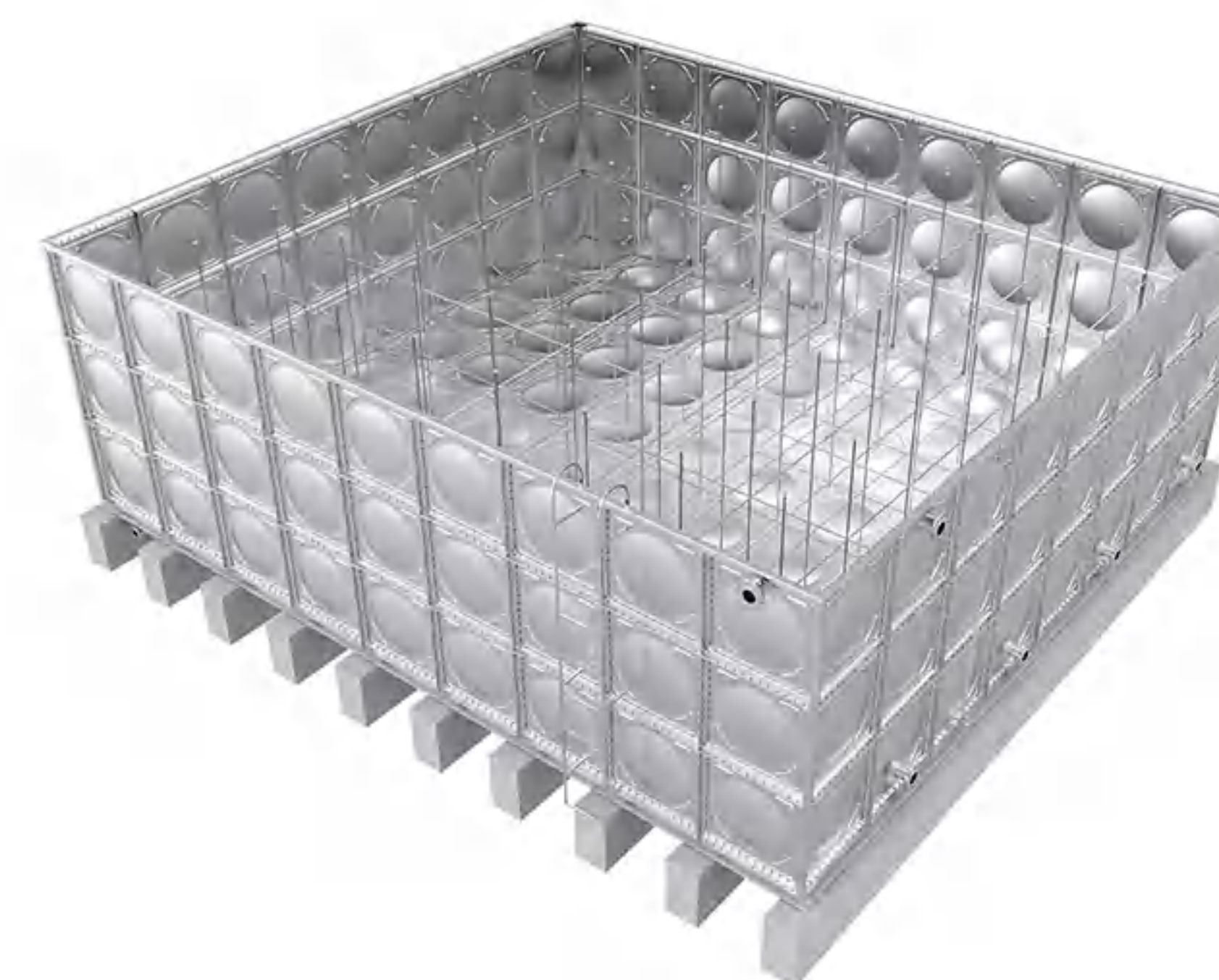
Stainless steel splicing/non-welding water tanks are made of high-quality stainless steel plates such as SUS304 and assembled by bolt connection. With its excellent corrosion resistance, high strength, easy cleaning and maintenance, flexible and convenient installation, beautiful appearance, hygienic safety, environmental protection and energy saving, and strong adaptability, it has become one of the indispensable water storage equipment in modern buildings.



Product advantages

1. Excellent corrosion resistance: Stainless steel is well-known for its excellent corrosion resistance. It can resist the erosion of water, air and various chemicals, ensuring that the water tank can maintain its structural integrity and clean water quality during long-term use.
2. High strength and durability: Stainless steel plates are processed to have high tensile strength and can withstand greater pressure and impact. Therefore, the water tank has excellent durability and stability for long-term use.
3. Easy to clean and maintain: The surface of stainless steel is smooth, not easy to adhere to dirt and bacteria, and easy to clean. In addition, since the various components of the water tank are bolted together, it is convenient to disassemble and replace, thereby simplifying the maintenance and maintenance work.
4. Flexible and convenient installation: With modular design, it can be customized and assembled according to actual needs. When installing on site, you only need to connect the various components together with bolts to quickly complete the installation process, which greatly saves time and labor costs.
5. Beautiful and elegant: Stainless steel has a metallic luster and a beautiful appearance, which can improve the overall quality of the building. At the same time, it is not easy to rust and discolor, and can maintain its beauty for a long time.
6. Hygiene and safety: Stainless steel splicing/non-welded water tanks can ensure that the stored water is clean, hygienic and safe, and meets the drinking water hygiene standards.
7. Environmental protection and energy saving: Stainless steel is a recyclable material. Stainless steel water tanks can be disassembled and recycled after reaching the end of their service life, reducing the impact on the environment.

Finished Product



Structure diagram



Application fields

1. Urban water supply system: used to store and distribute domestic water in residential areas, commercial areas, industrial areas and other places.
2. Industrial field: used to store and treat various liquid media in food processing, chemical, pharmaceutical, electric power and other industries to ensure the smooth progress of the production process.
3. In the construction industry, it is widely used in secondary water supply systems in high-rise buildings, apartments, scientific research and teaching buildings and other places.
4. In the agricultural field, stainless steel bolt water tanks can be used in irrigation systems in orchards, vegetable plantations and other places to ensure that crops get enough water for growth.
5. In the field of water treatment, such as water purification, water treatment plants, etc., stainless steel bolt water tanks are used to store and treat various water qualities to meet the needs of different industries and occasions. Its sealing and anti-corrosion properties can ensure the safety and purity of water quality during the treatment process.

PROJECT CASE



Taizhou Xiangyue Construction Engineering Co., Ltd. 1600 tons water tank



Shenzhen Hefengjiada Technology Co., Ltd. 280 tons water tank

PROJECT CASE



Wuhan Huaxinglong New Energy Technology Co., Ltd. 1440 tons water tank



Suzhou Jiazhai Yishu Architectural Decoration Design Engineering Co., Ltd.
600 tons water tank

STAINLESS STEEL RIBBED WATER TANK (NON TENSIONED WATER TANK)

Product Description

Stainless steel ribbed water tank (no ribbed water tank) is a water storage device made of high-quality stainless steel material combined with a specially designed ribbed structure. It is widely used in construction, industry, agriculture and civil fields, especially in places where a large amount of clean drinking water needs to be stored and supplied, such as residential areas, villas, hotels, schools, hospitals and industrial production processes.



Main components

Stainless steel plate: As the main material of the water tank, stainless steel plate has excellent corrosion resistance and durability, and can keep the water clean and pollution-free for a long time.

Rib plate structure: The design of the rib plate not only enhances the structural strength of the water tank and improves its pressure bearing capacity, but also helps to optimize the water flow distribution, reduce scale deposition, and also helps to improve the insulation effect of the water tank.

Welding and sealing: Advanced welding technology and high-quality sealing materials are used to ensure that the water tank is leak-free and the water quality is safe.

Product Advantages

Corrosion resistance: Stainless steel can resist corrosion from a variety of chemicals and extend the service life of the water tank.

High strength: The rib structure enhances the overall strength of the water tank, enabling it to withstand greater water pressure and external impact.

Easy to clean: The smooth inner wall surface is not easy to adhere to dirt, which is convenient for regular cleaning and maintenance.

Good thermal insulation: The rib design helps to reduce heat loss and improve the thermal insulation performance of the water tank.

Easy installation: The modular design allows the water tank to be flexibly assembled according to actual needs, and the installation process is simple and fast.

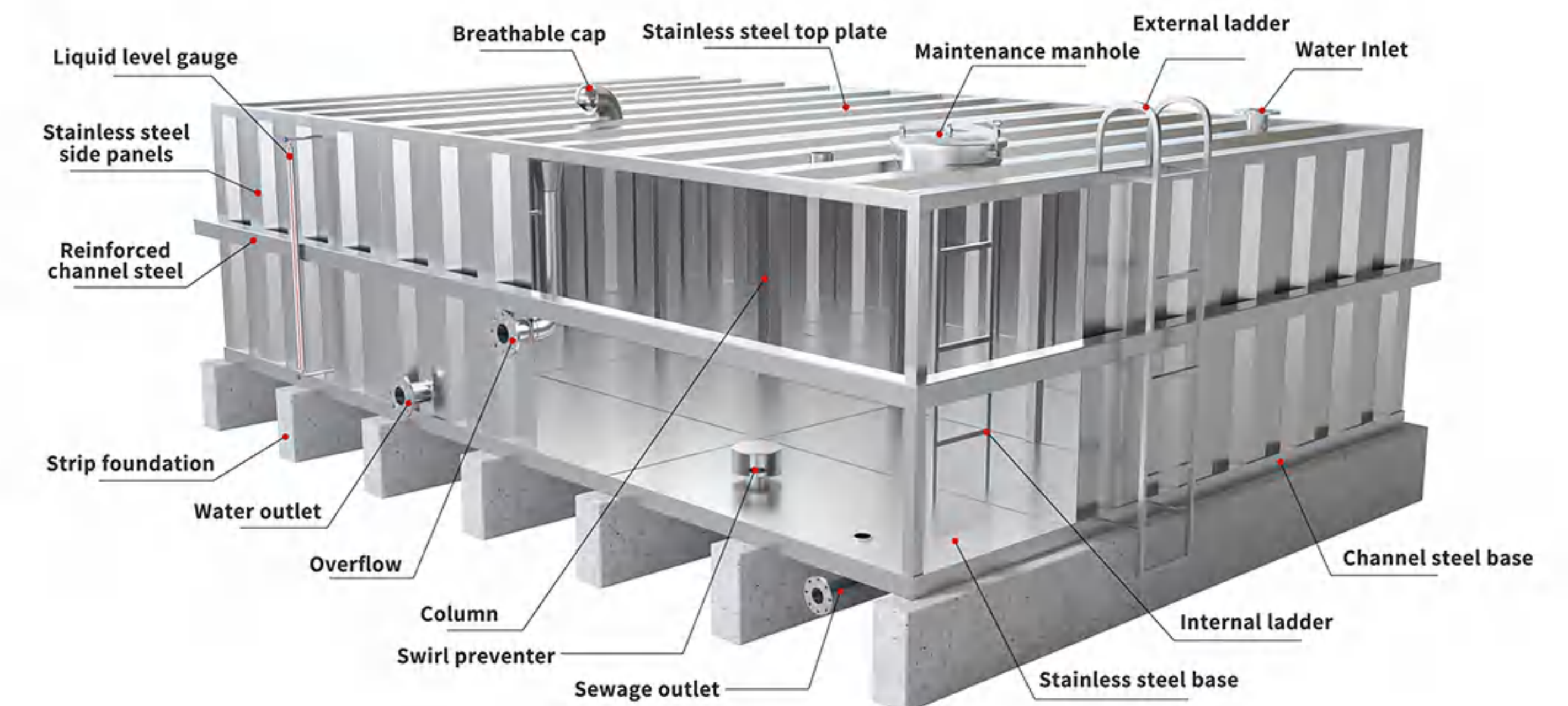
Environmental protection and hygiene: It meets national health standards, does not contain harmful substances, and ensures water safety.

Beautiful and durable: The appearance is beautiful and generous, coordinated with various building environments, and at the same time, it is highly durable and reduces the frequency of replacement.

Finished Product



Structure diagram



Application fields

1. Urban water supply system: used to store and distribute domestic water in residential areas, commercial areas, industrial areas, etc.
2. Industrial field: used to store and process various liquid media in food processing, chemical, pharmaceutical, electric power and other industries to ensure the smooth progress of the production process.
3. In the construction industry, it is widely used in secondary water supply systems in high-rise buildings, apartments, scientific research and teaching buildings, etc.
4. In the agricultural field, stainless steel bolt water tanks can be used in irrigation systems in orchards, vegetable plantations, etc. to ensure that crops get enough water for their growth.

LINED WATER TANK

Product Description

The concrete inner water tank (pool) is to embed a layer of stainless steel plate on the inner wall of the concrete water tank. Then the argon arc welding integral forming technology is used to prevent the leakage of the pool. In this way, it can not only effectively prevent secondary pollution of water quality and improve water quality standards, but also stainless steel has strong corrosion resistance, and the inner surface is clean, flat and beautiful.



The concrete pool is very easy to breed moss and microorganisms due to the rough inner surface, which pollutes the water quality and is difficult to clean. With the continuous improvement of people's living standards, water consumption and water quality requirements have increased accordingly. The water quality of the original concrete pool or the newly built concrete pool cannot meet the water use standards, so food grade stainless steel plates (SUS304) or food grade fiberglass linings are widely used to line the inner surface of concrete pools.

Product advantages

This process is suitable for the renovation of ordinary steel plate water tanks and cement water tanks. This process is to inlay a layer of stainless steel plate with a thickness of 1.2mm on the inner wall of the water tank and the water tank. The argon arc welding integral forming technology is adopted, and in order to make the inner lining firmly attached to the original water tank, the stainless steel plate is fixed to the pool wall with expansion bolts.

1. Prevent rust: Stainless steel plates have excellent corrosion resistance and are not easy to rust.
2. Prevent leakage: There is no intermediate rubber gasket like other water tanks, and argon arc welding is performed on site.
3. Beautiful and hygienic: The entire system is closed, the surface of the stainless steel plate is smooth, and it is not easy to grow moss and algae. The sediment in the water tank is also easy to clean and flush.
4. Wide range of uses: Suitable for water tanks in hotels, apartments, high-rise buildings, factories, and liquid storage containers in the food, medicine, environmental protection, and chemical industries.

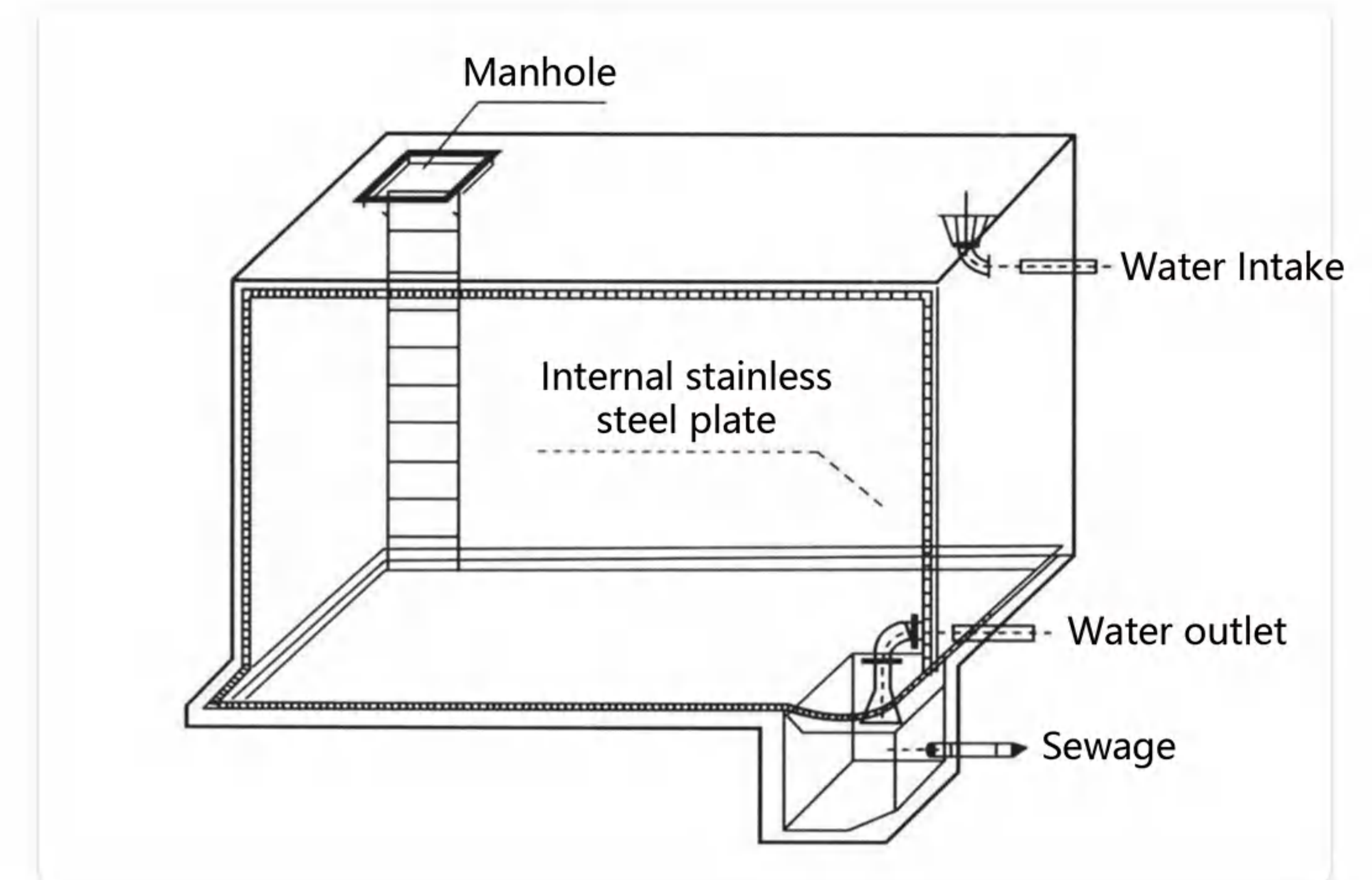
Preparatory work before construction

Before the concrete water tank is formed, the pipe fittings of the water inlet and outlet must be pre-buried (including sewage outlet, water inlet, water outlet, overflow, etc.). After the concrete water tank is formed, the inner wall must be smooth and flat so that the stainless steel plate can be collaged with the inner wall of the concrete, and a water-proof layer must be prepared.

Collage of stainless steel lining plate:

1. Carefully study the various technical indexes of the drawings and actually measure and locate the concrete water tank on site.
2. Locate and lay out the lines after checking the drawings.
3. Measure, locate and drill holes at the connection point between the inner tank and the concrete wall, and pre-bury the stainless steel expansion bolts.
4. After carefully checking the drawings, lay out and cut the materials, weld the plates in the order of bottom-side-top, and add 3cm lining double-sided full welding outside the plate joints to ensure the overall strength of the water tank.
5. Drill holes in the assembled plates according to the drawings and the embedded positions of the expansion screws, and polish the edges of the holes to make them smooth. After proofreading, attach the plates to the concrete wall and install the stainless steel expansion bolts, with the expansion bolts facing the inside of the water tank, and weld them with water-blocking buckle plates.

Structure diagram



On-site shooting



WATER SUPPLY EQUIPMENT

Product Overview

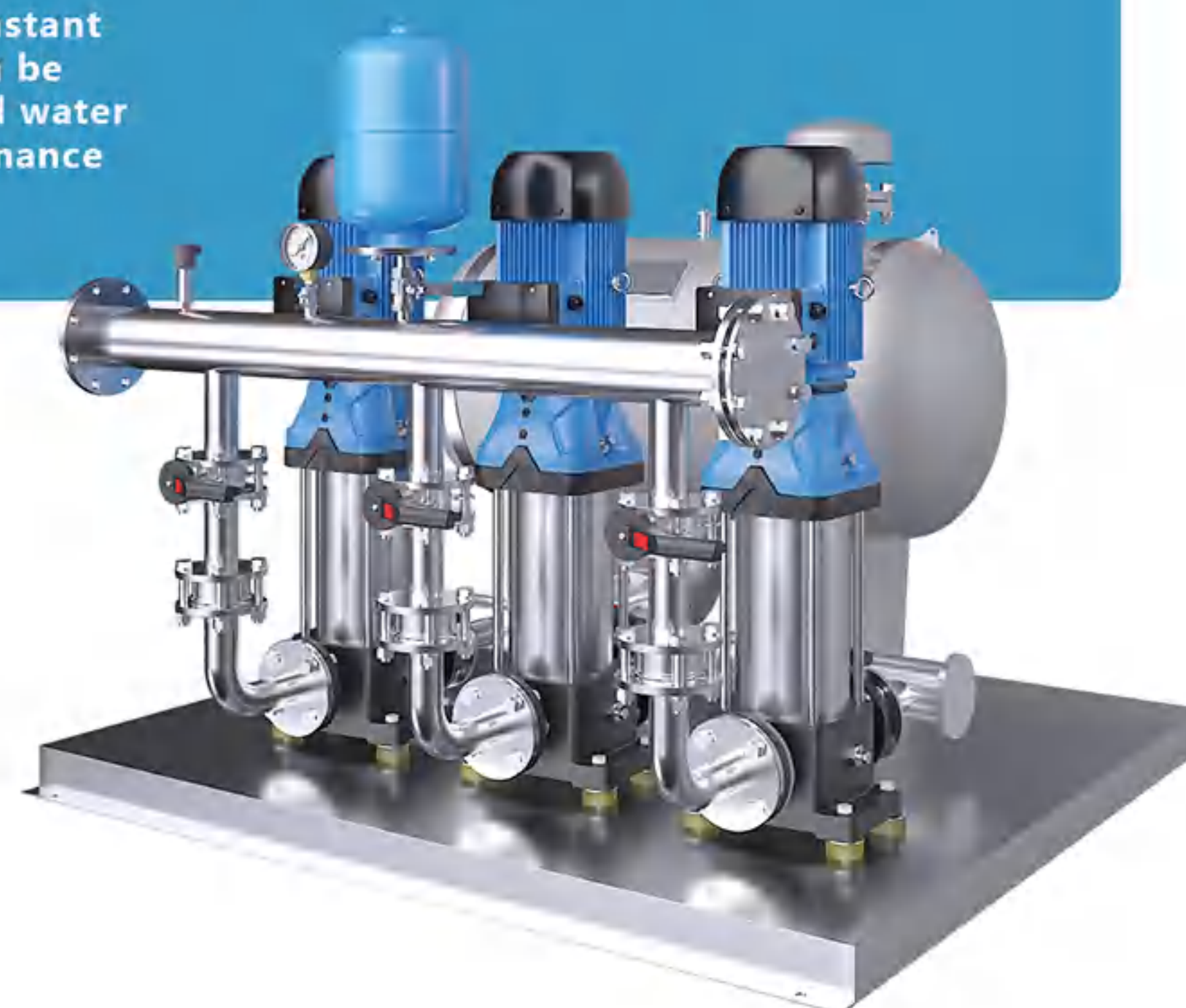
Variable frequency constant pressure water supply equipment is a new type of energy-saving water supply equipment. Variable frequency constant pressure water supply equipment is a mechatronic high-tech energy-saving water supply device that uses the most advanced microcomputer control technology and combines a variable frequency speed regulator with a motor water pump. The variable frequency constant pressure water supply equipment uses the water pressure at the outlet of the water pump (or the user's water flow) as the setting parameter, and automatically controls the output frequency of the frequency converter through the microcomputer to adjust the speed of the water pump motor, so as to achieve closed-loop regulation of the user's pipe network water pressure, so that the water supply system automatically maintains constant pressure and stabilizes at the set pressure value; that is, when the water consumption increases, the frequency increases and the water pump speed increases; when the water consumption decreases, the frequency decreases and the water pump speed slows down. This ensures that the entire user pipe network has sufficient water pressure (consistent with the pressure set by the user) and water volume (which changes with the user's water consumption) at any time.



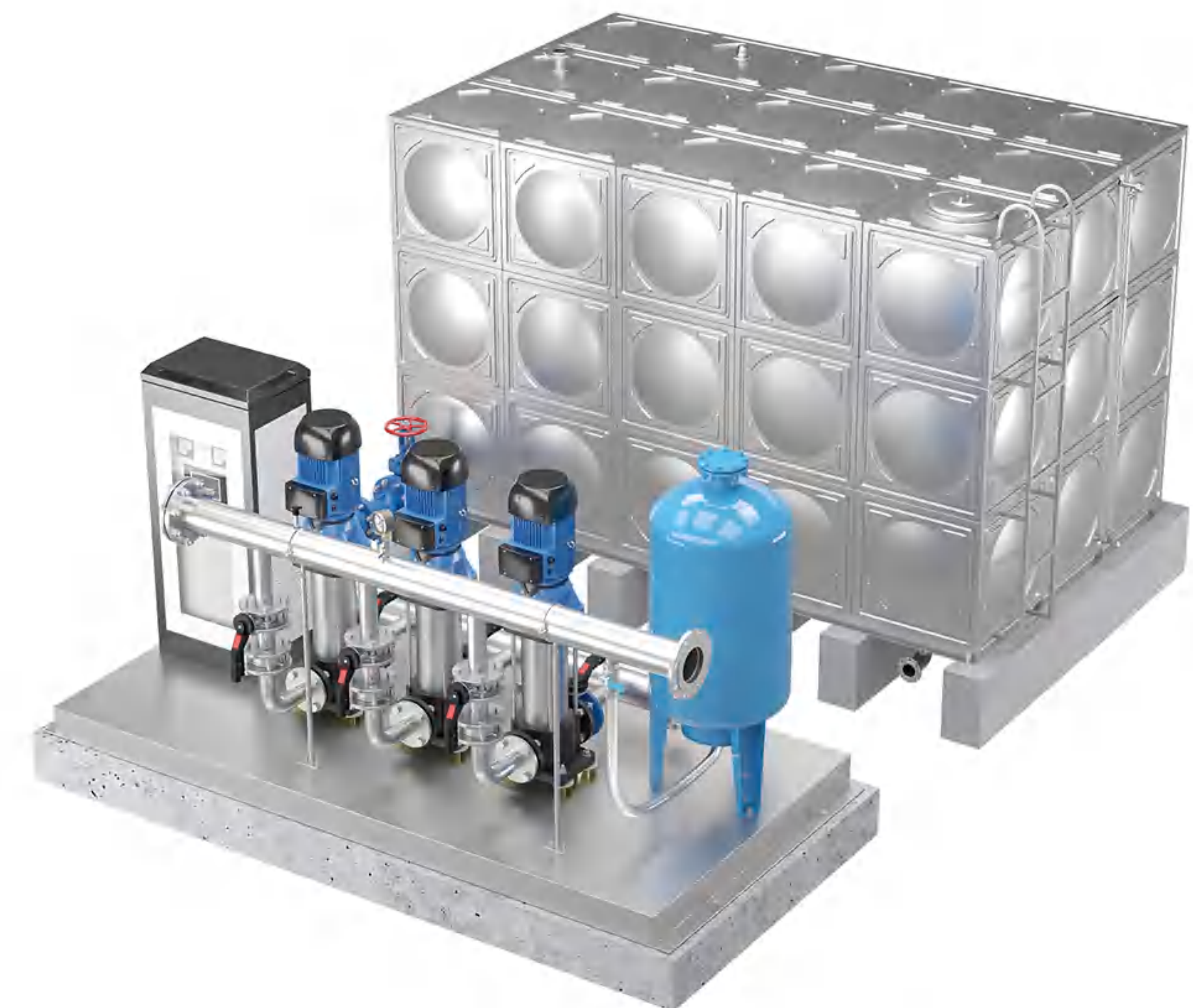
Product composition

The variable frequency constant pressure water supply equipment is mainly composed of a water pump unit, a pressure measuring and stabilizing tank, a pressure sensor, a variable frequency control cabinet, etc. It can always maintain the pressure gauge pressure (that is, the user's pipe network water country is equal to the user's set value. It can be used for general life or production water supply. The water supply system composition is as follows:

1. The variable frequency water supply equipment is connected to the municipal pipe network for constant pressure water supply. When the water supply pressure can meet the needs, all water pumps are automatically stopped. Otherwise, the constant pressure water supply equipment starts and increases the pressure to meet the water demand.
2. Add a small pump or an air pressure tank. In order to completely eliminate the power consumption of small flow or zero flow water supply, an auxiliary small pump or an auxiliary air pressure tank can be added. When the water supply pressure is low, the main pump is automatically stopped to make the small pump or air pressure tank run.
3. Customized variable frequency constant pressure water supply equipment can be consulted with the manufacturer, and water pump repair and water pump maintenance are provided at the same time.



Finished Product



Application scope

1. Domestic water supply for newly built residential areas, villas, office buildings, and complex buildings.
2. Domestic water supply for high-rise buildings, bathing centers, high-end hotels and restaurants, etc.
3. Renovation of traditional water supply systems such as air pressure water supply and ground pool pressurization.
4. Various boiler cold water supply systems and boiler hot water.
5. Intermediate pressure pump station of water plant and secondary pressure boosting of tap water.
6. Production, domestic water, and pipe network pressure stabilization of various industrial and mining enterprises.
7. Various types of circulating water and cooling water supply systems.
8. Pressurized water supply for life and fire fighting where the tap water pressure cannot meet the requirements.



Fire pressurized water supply



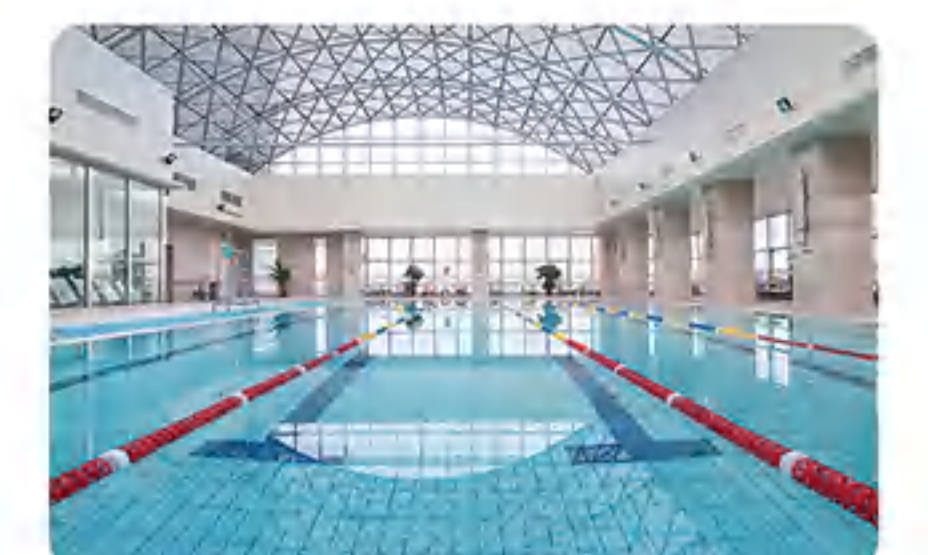
Industrial and mining water supply



High-rise building pressurized water supply



Waterworks Pumping Station



Swimming pool water supply

PROJECT CASE



Shanyang County Zhongyu Dingli Mining Co., Ltd. Project Engineering



Haian Qiangwei Building Materials Co., Ltd. Project Engineering

PROJECT CASE



Ximeng Longrun Construction Engineering Co., Ltd. Project Engineering



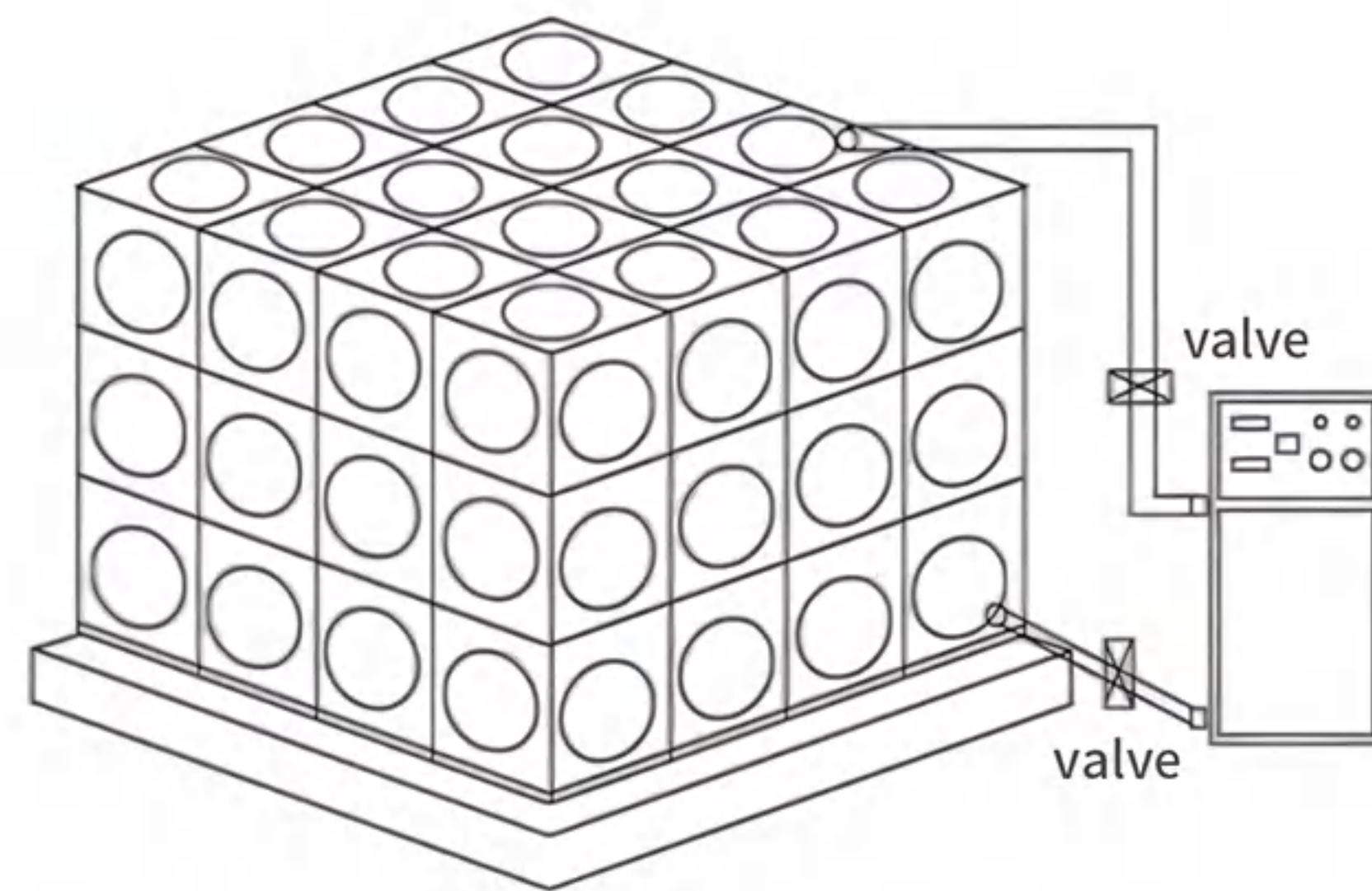
Wuzhou Ruyou Printing and Dyeing Co., Ltd. Project

WATER TANK SELF-CLEANING DISINFECTOR

Connection of external sterilizer

To connect the external sterilizer, you only need to connect the water inlet and outlet on the equipment box to the reserved interface of the water tank.

Note: The water inlet and outlet of the equipment should be installed with valve control.

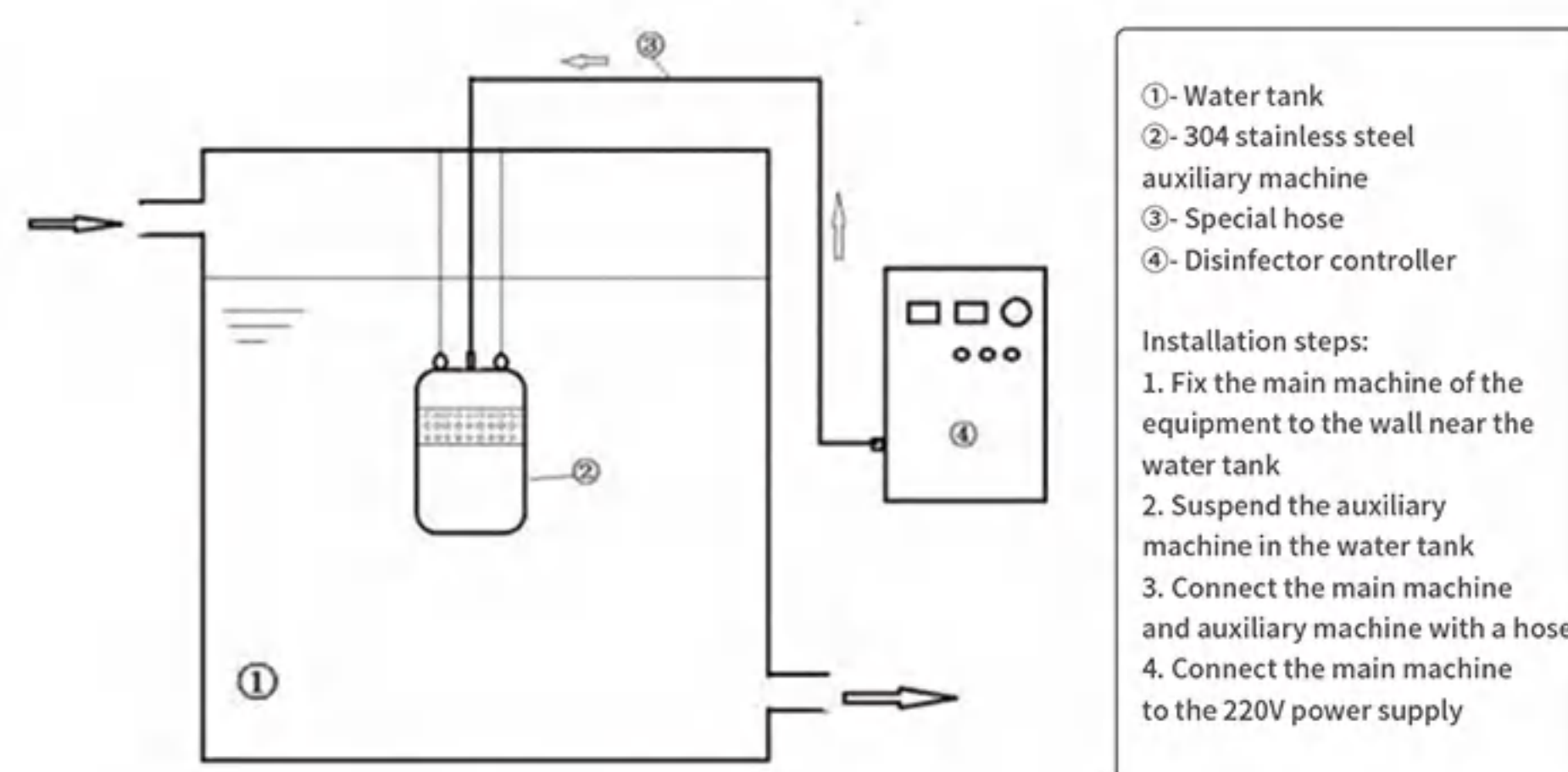


Installation diagram of external water tank self-cleaning disinfectant



External water tank self-cleaning disinfectant

1. Place the equipment outside the water tank and fix it as required, and connect the power cord and the water inlet and outlet pipes of the equipment. Ensure that the center line of the circulating water pump is lower than the lowest working water level of the water tank;
 2. The water outlet pipe of the equipment should be set at the top or side top of the water tank;
 3. The installation place of the equipment should be dry and ventilated and have rain and waterproof measures;
 4. When cleaning and maintaining the water tank or pool, first cut off the main power supply of the equipment, and then connect the power supply at the specified time when using it.
- In case of abnormal situation, please call our company's after-sales hotline after shutdown.



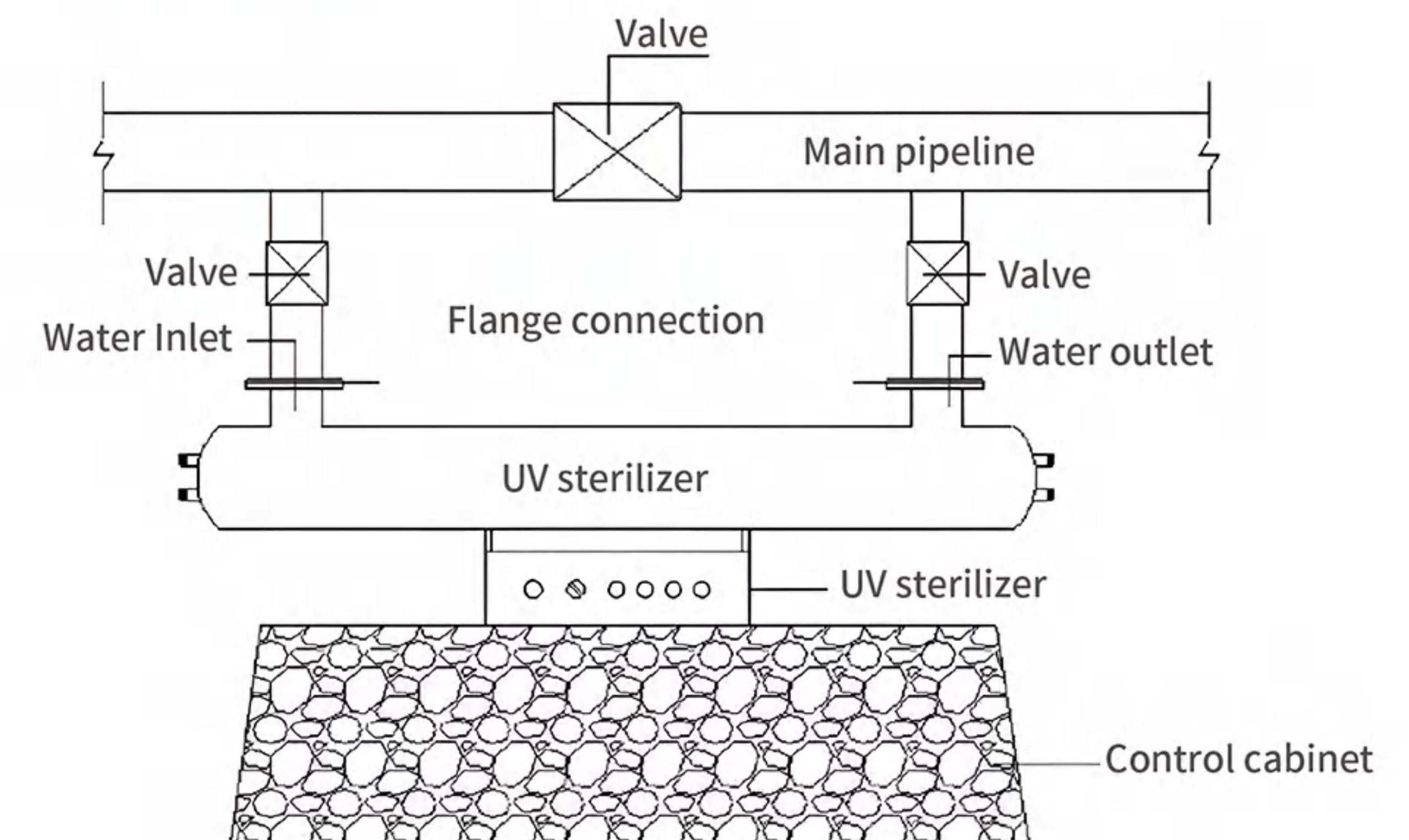
Installation diagram of built-in water tank self-cleaning disinfectant



Built-in water tank self-cleaning disinfectant

UV STERILIZER

Equipment installation diagram

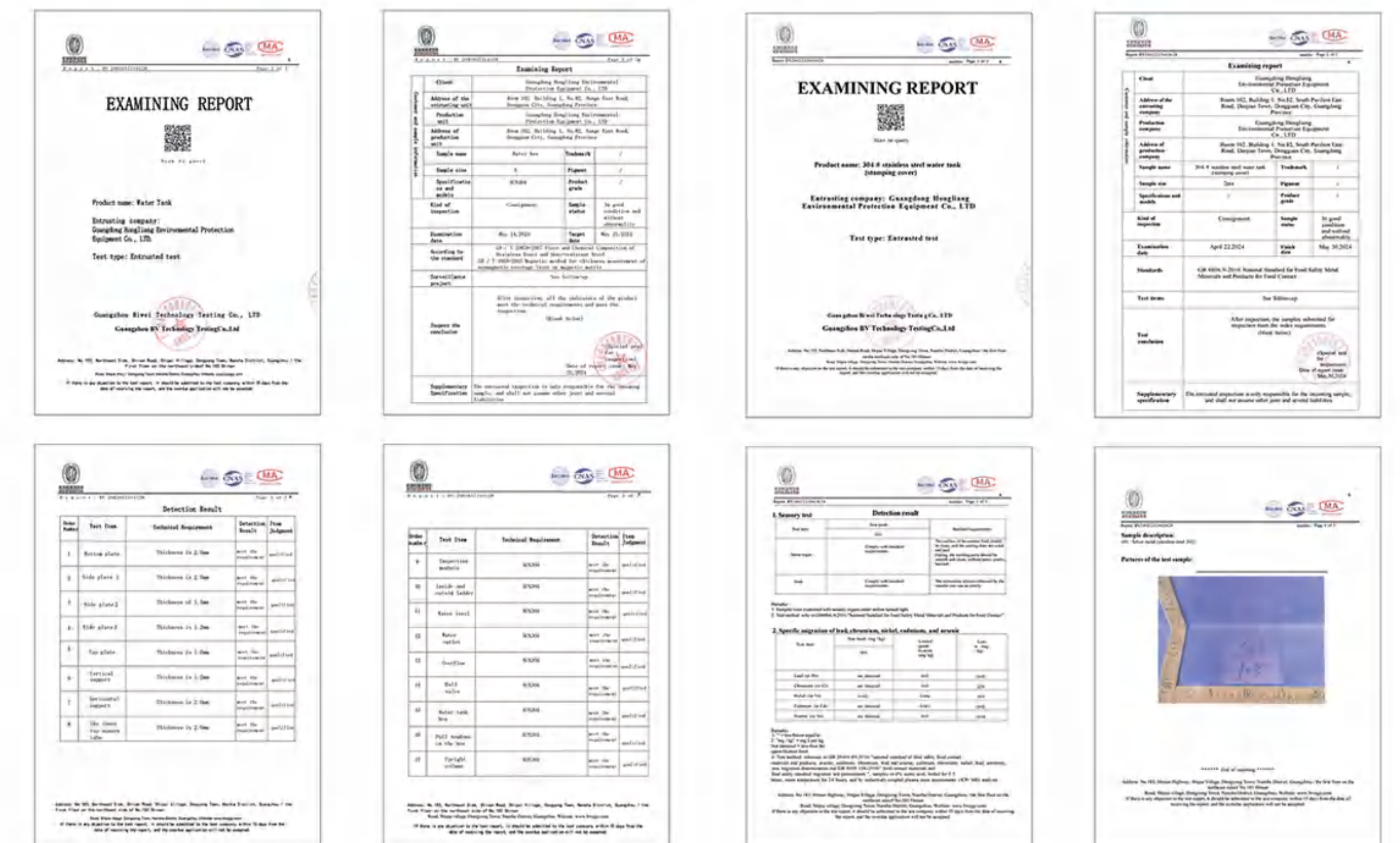
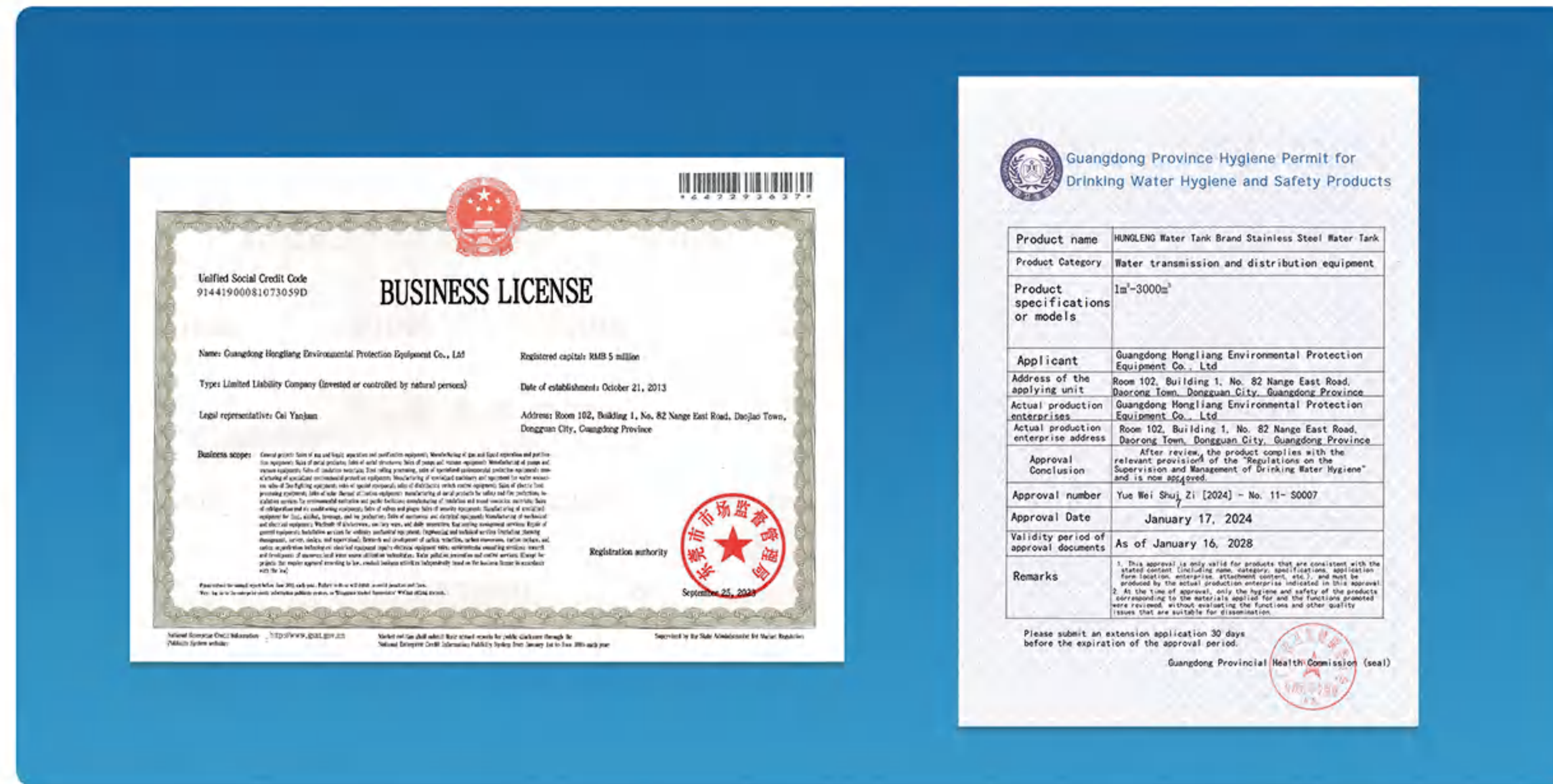


Note: The above is a ground-mounted installation method (generally a larger UV sterilizer); when installing a non-ground-mounted installation method, a bracket should generally be installed to ensure that the sterilizer is stable (generally a smaller UV sterilizer)



COMPLETE QUALIFICATIONS

CERTIFICATE OF HONOR



TEST REPORT

Qingdao Huanwan Testing and Evaluation Co., Ltd

INSPECTION REPORT

Sample number: QP231262

Sample name: Hongliang Water Tank Brand Stainless Steel Water Tank

Inspection unit: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Report Date: November 8th, 2023

Qingdao Huanwan Testing and Evaluation Co., Ltd

Inspection report

Sample number: QP231262

Sample name: Hongliang Water Tank Brand Stainless Steel Water Tank

Inspection unit: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Production date or batch number: 20231012

Model and specifications: 10cm * 10cm steel sheet

Brand: HUNLENG Water Tank

Inspection completion date: November 8, 2023

Inspection conclusion:

Remarks:

Authorized signatory:

Final review date: November 8th, 2023

SMQ 深圳市计量质量检测研究院

Inspection report

TEST REPORT

Report number: WT245100339

Page 1, of 4 pages

Entrusted: Address: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Address of the commissioning unit: Room 102, Building 1, No. 82 Xang East Road, Dongjiao Town, Dongguan City, Guangdong Province

Sample Name: Stainless Steel Plate Component

Model/Specification/Grade: 500mmx500mm/1mm

Inspection Category: Sample Inspection

Inspection address: Longgang Fire Center

Shenzhen Research Institute of Metrology and Quality Testing

Approved by: Wu Yaoyao

Sign once: [Signature]

Date of issuance: May 11, 2024

SMQ 深圳市计量质量检测研究院

Inspection report

Page 2 of 4 pages

Sample information:

Sample Name: Stainless Steel plate number

Trademark:

Model / specification / grade: 500mm 500mm 1mm

Sample preparation / lot number:

Production date:

Production unit:

Address:

Sampling:

Sample description before inspection: normal

Customer information:

Entrusted unit: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Address of the entrustment unit: Room 102, Building 1, No. 82, Xang East Road, Dongjiao Town, Dongguan City, Guangdong Province

Tel.: 0769-83208026 Postal Code:

Subject:

Unit:

Inspection Information:

Date: April 22, 2024 Order No.: 804 2024

Inspection category: sample delivery Sample delivery method: sample delivery

Inspection date: April 22, 2024 to May 08, 2024

Environmental conditions: (25±3) °C

CP No. 02:

Test basis: GB / T 19978.1-2008 Part 1: General Requirements

Inspect the conclusion:

The test results are shown in the attached page.

Main inspection: Yuan Shuai To examine: Zhu Jian

Qingdao Huanwan Testing and Evaluation Co., Ltd

Inspection report

Sample number: QP231262

Sample name: Hongliang Water Tank Brand Stainless Steel Water Tank

Inspection unit: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Production date or batch number: 20231012

Model and specifications: 10cm * 10cm steel sheet

Brand: HUNLENG Water Tank

Inspection completion date: November 8, 2023

Inspection results

Table 1 Results of Health and Safety Inspection

Inspection items	Unit of measurement	Blank	Sample 1	Sample 2	Hygiene standard requirements	Single item judgment
Chlorine	mg/L	0.11	0.15	0.18	increase amount < 5	qualified
Turbidity	NTU	not have	not have	not have	increase amount < 0.2	qualified
Smell and taste	describe	not have	not have	not have	After soaking, the water does not produce any smell	qualified
Visible to the naked eye	describe	not have	not have	not have	Visible fragments, debris, etc.	qualified
pH	/	8.03	8.10	8.07	Change amount < 0.5	qualified
Total Dissolved Solids	mg/L	222	221	229	increase amount < 10	qualified
Permanganate index	mg/L	0.15	0.42	0.44	increase amount < 1	qualified
Arsenic	mg/L	< 0.0005	< 0.0005	< 0.0005	increase amount < 0.001	qualified
Cadmium	mg/L	< 0.0003	< 0.0003	< 0.0003	increase amount < 0.0005	qualified
Chromium (hexavalent)	mg/L	< 0.004	< 0.004	< 0.004	increase amount < 0.005	qualified
Aluminum	mg/L	< 0.008	< 0.008	< 0.008	increase amount < 0.02	qualified
Lead	mg/L	< 0.001	< 0.001	< 0.001	increase amount < 0.001	qualified
Mercury	mg/L	< 0.0001	< 0.0001	< 0.0001	increase amount < 0.0002	qualified
Chloroform	mg/L	0.0040	0.0042	0.0042	increase amount < 0.005	qualified

Authorized signatory:

Final review date: November 8, 2023

Qingdao Huanwan Testing and Evaluation Co., Ltd

Inspection report

Sample number: QP231262

Sample name: Hongliang Water Tank Brand Stainless Steel Water Tank

Inspection unit: Guangdong Hongliang Environmental Protection Equipment Co., Ltd

Production date or batch number: 20231012

Model and specifications: 10cm * 10cm steel sheet

Brand: HUNLENG Water Tank

Inspection completion date: November 8, 2023

Continued Table 1 Health and Safety Inspection Results

Inspection items	Unit of measurement	Blank	Sample 1	Sample 2	Hygiene standard requirements	Single item judgment
Fluoride	mg/L	< 0.002	< 0.002	< 0.002	increase amount < 0.002	qualified
Iron	mg/L	< 0.03	< 0.03	< 0.03	increase amount < 0.06	qualified
Manganese	mg/L	< 0.01	< 0.01	< 0.01	increase amount < 0.02	qualified
Copper	mg/L	< 0.005	< 0.005	< 0.005	increase amount < 0.02	qualified
Zinc	mg/L	< 0.05	< 0.05	< 0.05	increase amount < 0.2	qualified
Nickel	mg/L	< 0.002	< 0.002	< 0.002	increase amount < 0.002	qualified

Authorized signatory:

Final review date: November 8, 2023

SMQ 深圳市计量质量检测研究院

Inspection report

Report number: WT245100339

Page 3 of 4 pages

1. Sample description

1.1 Number of specimens: 1 piece (fire resistance test on the specified fire surface).

1.2 Sample size (length, width and thickness): 500 mm x 500 mm x 1 mm.

2. Test description

2.1 Gas source type: liquefied petroleum gas.

2.2 Installation of specimens: The installation of specimens shall be installed according to GB / T 9978.1-2008 requirements, which can reflect the actual use situation.

3. Fire Resistance of the test results

Surveillance project	The GB / T 9978.1-2008 standard requirements	The measured results	Single conclusion
Fire resistance integrity	fire resistance integrity 180 min (technical requirements of the contractor) the test backfire surface has no flame for 10s or more than 10s, the cotton pad does not catch fire, and the gap probe can not pass through.	At 180min, The specimen did not lose fire resistance integrity.	Accord with

Note: The test results are valid under the conditions described in the test. Explain whether the product conforms to the provision of laws and regulations shall be subject to the judgment of the relevant administrative organs.

5. Attached figure

5.1 Sample photos

SMQ 深圳市计量质量检测研究院

Inspection report

Report number: WT245100339

page 4 of 4

5.2 Photos before and after the test

Pre-test photographs and post-test photographs

245100339

3.4h

GB 19678.1-2008

Blank below

304 Material Inspection Report

Stainless steel plate 3-hour fire resistance test report

SUCCESSFUL CASES ALL OVER THE COUNTRY

Construction Company

Guangdong Second Construction Engineering Co., Ltd.
Guangdong Guangsha Construction Engineering Co., Ltd.
Guangdong Libang Construction Service Co., Ltd.
Guangzhou Jinda Construction Engineering Co., Ltd.
Guangzhou Zhanchuang Construction Co., Ltd.
Guangzhou Xinhui Construction Engineering Co., Ltd.
Shenzhen Rongxiang Construction Engineering Co., Ltd.
Shenzhen Changlongtai Building Materials Co., Ltd.
Dongguan Jiancheng Building Materials Co., Ltd.
Dongguan Shengchi Construction Engineering Co., Ltd.
Foshan Shengxun Construction Engineering Co., Ltd.
Zhongshan Wuguishan Construction Engineering Co., Ltd.
Huizhou Guoli Construction Engineering Co., Ltd.
Shantou Guanglong Construction Engineering Co., Ltd.
Heyuan Tianrun Municipal Construction Engineering Co., Ltd.

Shanghai Ximao Construction and Installation Co., Ltd.
Anhui Lixing Construction Engineering Co., Ltd.
Hunan Changsha Xianghua Construction Engineering Co., Ltd.
Hunan Heshan Construction Engineering Co., Ltd.
Hubei Zhiqiang Construction Engineering Co., Ltd.
Sichuan Rongxin Construction Engineering Co., Ltd.
Sichuan Hongda Construction Engineering Co., Ltd.
Chongqing Sanyi Construction Engineering Co., Ltd.
Guizhou Wanshengda Construction Engineering Co., Ltd.
Guangxi Xilin County Construction Company
Guangxi Huaye Construction Engineering Co., Ltd.
Jiangxi Xintiejun Road and Bridge Construction Engineering Co., Ltd.
Yunnan Guancheng Construction Engineering Co., Ltd.
Tianjin Tianhui Construction Engineering Co., Ltd.
Liaoning Hongwei Construction Engineering Co., Ltd.

Government agencies, hospitals

Dongguan Postpartum Care Center
Dongguan Dalingshan Town Professional Fire Brigade
Guangzhou Cultural Park (Liwan District Park Management Center)
Shenzhen Guangming District Affairs Management Center
Guangxi Power Grid Stability Center
Yichang City Xiaoting District Government Affairs Service Center

Guangzhou Panyu District Chinese Medicine Hospital
The Second Affiliated Hospital of Guangzhou Medical University
Foshan Hemeijia Women and Children's Hospital Co., Ltd.
The Sixth Affiliated Hospital of Sun Yat-sen University
Rongxian Xuqiang Psychiatric Hospital Co., Ltd.
Chaling Zhengde Hospital, Zhuzhou City, Hunan Province

Universities, middle schools, kindergartens

Dongguan United Senior Technical School
Dongguan Chashan Jinghua School
Dongguan Guangzheng Experimental School

Guangzhou Zengcheng District Helenberg School
Shenzhen Guangming District People's School
Huizhou Boluo Experimental School

Hotels, water companies

Dongguan Changping Mayflower Hotel
Heyuan Grand Skylight Hotel
Guangzhou Lego Hotel

Xinyi City Baishi Town Water Plant
Pubei County Fuwang Town Xingfu Water Plant
Zixing City Water Co., Ltd.

ESTABLISH COOPERATIVE RELATIONSHIPS WITH MANY BRANDS



Kyocera Group



China Resources Group



Vanke Group



Huawei Group



LG Group



BYD Group



Kweichow Moutai Group



Chinese Architecture



China Southern Power Grid



Shenzhen Metro



China Unicom



China Metallurgical Construction Group Corporation