SMC assembled water tank

SMC assembled water tank is a new type of water tank currently adopted internationally.Assembled from high-quality SMC water tank panels as a whole. Its characteristic is the use of food grade resin, so the water quality is good, clean and pollution-free; It has the characteristics of high strength, light weight, corrosion resistance, beautiful appearance, long service life, and convenient maintenance and management.

The SMC assembled water tank produced by our company is the first batch of recommended products in the National Building Materials Industry Bureau and the Ministry of Construction [1999] No. 330 document, fully meeting the technical performance requirements of the National Building Materials Industry Bureau standard JC658.1-1997. The water tank has been tested by relevant national departments and meets the requirements of GB/T17219-98 "Safety Evaluation Specification for Drinking Water Transmission and Distribution Equipment and Protective Materials". The water quality meets the national "Drinking Water Standard" (GB5749-85). Widely applicable to industrial and mining, enterprises and institutions, residential buildings, hotels, restaurants and other buildings, it is used as a water storage facility for drinking water reclaimed water treatment fire water and other water use.

SMC Performance and specifications of molded veneer

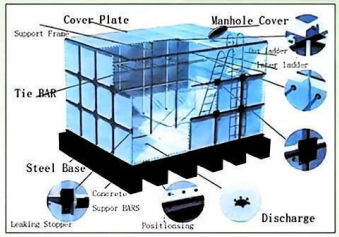
SMC water tank is made of SMC sheets produced from food grade resin, which are subjected to high temperature, high pressure, and mechanical pressing. In terms of manufacturing process, the method of machine pressing is adopted. Increased the strength of earthquake resistance and impact resistance, overcame the defect of uneven strength of hand pasted products, and improved the compressive strength and service life; In terms of exterior design, the center of the panel has an outward convex curvature,which improves the pressure bearing capacity of the water tank. At the same time, there are 45 ° and 90° connecting edges around the panel,which do not require corner connectors during assembly, making it more flexible and adaptable. The specifications of the water tank panel are: 1000 × 1000mm; 1000 × 500mm;500 × 500mm. The thicknesses are 4mm, 6mm, 7mm, 7.5mm, 9mm, 10mm, 12mm, and 14mm. The 4mm thick plate is specifically used as a water tank cover plate. Therefore, water tanks of the required capacity can be assembled arbitrarily.

Physical and chemical properties of single board

project	standard
tensile strength, MPa	≥ 60
bending strength, MPa	≥ 100
Bending degree, GPa	≥ 7.1
Barcol Hardness	≥ 60
Water absorption rate, %	≤ 1.0
Glass Fiber Content, %	≥ 25

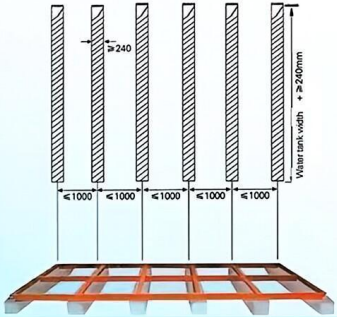
Water tank performance

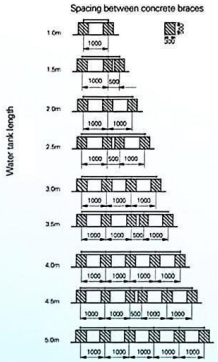
project	standard
Leakage du	No leakage after filling with water
Deformation degree after filling with water	After being filled with water, the side wall does not deform significantlyExceeding 1.0% of the height of the water tank, bottomThe maximum deformation at the center shall not exceed 10mm
water quality	conform toGB5740



Water tank structure

SMC assembled water tank is assembled on-site from SMC molded plates, sealing materials, metal structural components, and piping systems. Bringing great convenience to design and construction. General water tanks are designed according to standards, while special water tanks require specialized design. Water tanks of 0.125-1500 cubic meters can be assembled according to user needs. If the original water tank needs to be replaced, there is no need to renovate the house, and it has strong adaptability. Specially developed standardized product sealing tape, which is non-toxic, water-resistant, highly elastic, with minimal permanent deformation, and securely seals. The water tank has high overall strength, no leakage, no deformation, and is easy to maintain and repair.





Note: The specifications and dimensions of the steel bracket should match the connection joints between the box plate unit panels. When the water level is H ≤ 3000mm, 100 channel steel should be used, and when H ≥ 3000mm, 120mm should be used. The T-shaped steel should be changed accordingly, and support points should be added between the angle steel and the concrete strip foundation.