KK TANK adopted the best Quality and most advance Technology from Japan

by using Sheet Moulding Compounds (SMC) Hot Pressed Moulding Method.

The panels are designed by using Computer Aided Design (CAD) and Finite Element Analysis (FEA).

Advantages of KK Tank

BEST HYGINIC - In cold pressed or hand lay up methods, un-reacted styrene monomer is remained in GRP and will extracted out in water gradually. In KK Tank SMC hot pressed method, un-reacted styrene monomer content is less than 0.01% which is very safe to keep drinking water.

RELIABILITY - KK GRP Panels are produced by compression moulding method at high pressure under high closely control temperature. Tolerance of the nominal dimension is +-0.3%.

STRENGTH - SMC process give high material modulus to prevent the tank deform or leak compared to other production methods and able to withstand 6 times hydrostatic pressure.

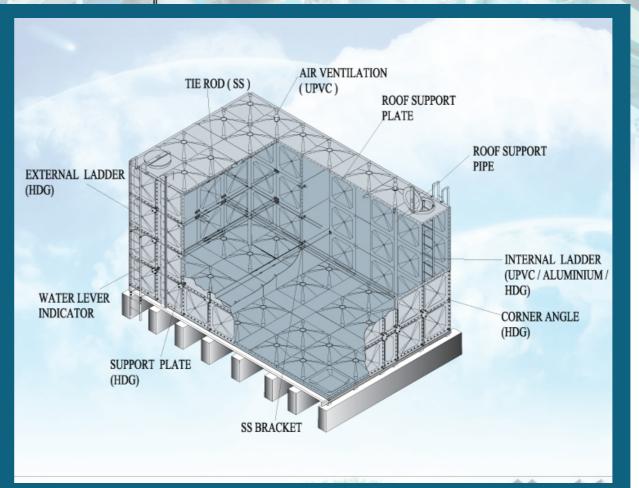
FLEXIBILITY CAPACITY - KK Tank is flexible in various sizes and shapes to maximize the limited space.

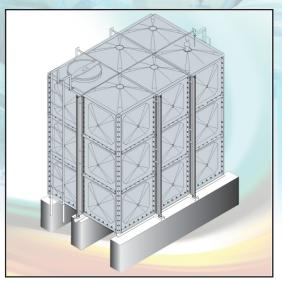
SUPERIOR THERMAL EFFECT - KK GPR panels surface are covered and reinforced by glass cloth or mat which prevent from Sun-shine damage and help to withstand the water pressure. With sandwich insulated panels, the thermal conductivity is low.

EASY PIPE CONNECTION - Special design flat surface panel that has enough strength for large pipe connections to the panels without additional nozzles.

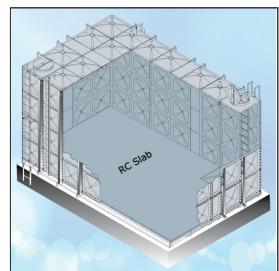
WATER TIGHTNESS - Sealing materials are non-toxic and able to withstand the temperature and stress variation during service.

Internal Reinforcement System

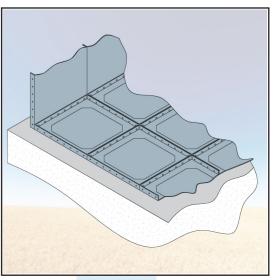




External Reinforcement System



Concrete Base System



Internal Flanged System

Panel Material Characteristics

Physical Properties Acceptance Criteria

Physical Properties	SS245:1995	AA lank
Tensile Strength (kg/cm) ²	700 (min)	> 1000 kg/cm ²
Bending Strength (kg/cm) ²	1000 (min)	> 1800 kg/cm ²
Elastic Modulus in bend (MN/m) ²	6000 (min)	>10,000 kg/cm ²
Glass Content (%)	25 (min)	> 30%
Barcol hardness	30% or 90% of the resin manufacturer's specification whichever is higher	> 40%
Water Abdorption (%)	1.0 (max)	< 0.1%
Luminous Transmittance	Not exceed 0.1%	< 0%
Specify Gravity		<1.8%
Young's Modulus		1.40 x 10 ³ kg/cm ²
Impact Strength		80kg/cm ²
Compressive Strength		3000 kg/cm ²
Shear Strength		1000 kg/cm ²
Thermal Expansion		2.0 x 10 ⁻⁵ °C
Thermal Conductivity		0.15 Kcal/m ² hr °C
Coef. Of Overall heat transmission		5.0 Kcal/m² hr °C

Tank Height	Main Beam "A"	Sub Beam "B"	RC Plinth C/C
1.0m	CH 76 x 38 x 5.1	EA 60 x 60 x 6mm	1.0m C/C
1.5m	CH 76 x 38 x 5.0	EA 70 x 70 x 6mm	1.0m C/C
2.0m	CH 102 x 51 x 6.1	EA 75 x 75 x 6mm	1.0m C/C
2.5m	CH 102 x 51 x 6.1	EA 90 x 90 x 6mm	1.0m C/C
3.0m	CH 102 x 51 x 6.1	EA 90 x 90 x 6mm	1.0m C/C
3.5m	CH 127 x 64 x 6.4	EA 90 x 90 x 8mm	1.0m C/C
4.0m	CH 127 x 64 x 6.4	EA 90 x 90 x 10mm	1.0m C/C

CERTIFICATION & STANDARD:

- PSB SS245:1995
- **SIRIM SS245:1995**
- **BS EN 13280:2001**
- WRAS, UK BS6290

The specifications may be changed without prior notice.

Insulated Panel

