

CUSTOM COMPOSITES, LLC

ELLIPTICAL TANK SPECIFICATIONS

MATERIAL:

The Custom Composites tank shall be constructed of multi layered fiber reinforced pure polyester plastic resin, the ultimate insurance for strength, durability and against possible leaks. This rugged material requires no maintenance, is lighter in weight than steel, aluminum or welded polypropylene sheet tanks. This tank has a _____ gallon water and _____ gallon foam tank capacity.

SHELL:

The shell is a seamless two-piece structure. The lower section has a square flat base section 4" tall at the center then a curved elliptical shaped wall to a recessed flange joint at the tank curve centerline. The top half is an elliptical shape with a 24" sq access portal on the top. All exterior corners having ¼" radius. Walls, floor and baffles are reinforced and tested for integrity and ZERO leakage. The exterior is white, gray or red. (select)

A recessed flange design is used to eliminate water contact with the stainless steel bolts, make the outside of the tank even with the outside tank walls and to allow clean placement within the body panels or for wet side exposed finish panels. These flange sections add extensive rigidity and strength to the structure.

BAFFLES: NFPA Ultra Flow Kinetic Control System

Baffle partitions shall be constructed of fiber reinforced plastic material. Each baffle partition shall be one-piece design and extend from side to side, floor to floor and to within 1" of mid height, in both the top & bottom shell halves. Staggered locations for lower and upper baffle halves provide total access to tank interior compartments and are constructed with 1 ½" by 90 degree flanges at tank mid section for added rigidity. Integrated to the main baffles are channel shaped tie in baffles running lengthwise between baffles on the centerline in both top & bottom sections to provide maximum strength throughout. Tie in baffles at the access tower are spaced 24" apart to provide a man way. All baffles are designed to allow max air and water flow and control water surging to comply with NFPA 1901.

FILL / ACCESS TOWER:

The tower will be 24" square, complete with anti splash water shield, clear opening with a hinged lid and latches located on the centerline (approx.). It shall be designed to allow full access to the tank along with the baffle system. Lid will be 5/16" composite laminate reinforced construction. The lid is bolted in place with stainless steel bolts, and no part of the bolts makes contact with the tank contents. Stainless steel bolts are located on 4" centers around the lid perimeter and on main transverse baffle on 8" centers. The lid is sealed with a full perimeter closed cell neoprene gasket. Exterior is white or red for wet side tanks.

TANK HOLD DOWNS:

There shall be an under tank center hold down system (hardware included). Quantity and size to be determined by capacity of tank.

OVERFLOW:

There shall be a standard 6" I.D. overflow pipe installed from the access tower to the bottom of the tank. The overflow pipe shall be sch 40 with discharge to beneath tank through floor. Standard is a recessed pocket that places the overflow pipe flush to the floor line.

COUPLINGS:

All couplings smooth, threaded or flanged shall be special manufactured polyurethane tank fittings or filament wound fiber reinforced plastic. Each coupling shall be bonded into the tank shell. All intakes shall have a pressure deflector to direct pressure away from partitions and reduce agitation. Many styles and sizes of fittings are available to meet both application and NFPA requirements.

_____ TANK TO PUMP(S) _____ PUMP TO TANK _____ DIRECT FILL(S)

SUMP:

Sump will be located with the suction connection plumbed to below floor line using 4" I.D. PVC pipe. An integral anti swirl low-level strainer is installed to insure the strong non-cavitating operation of the pump. A 3" N.P.T. drain plug is installed in the bottom for flushing debris and draining.

CONNECTION FITTING(S):

Dump valve connection fitting(s) shall be _____

FOAM CELL (S): Option

There shall be a foam cell (s) of _____ gallons & _____ gallons. All foam cells shall be equipped with gasketed fill tower, vent, screen and outlet.

WARRANTY:

The tank shall be issued a Custom Composites Limited Lifetime Warranty.

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