



Manufacturers of Tough and Durable Polyprene® Water & Foam Tanks and PolyBilt Bodies for the Fire Industry

Foam Cell Specifications

The tank shall have a rated capacity in U.S. gallons. The tank shall be constructed of ½” Polyprene ® sheet stock. This material shall be non-corrosive stress relieved thermoplastic and U.V. stabilized for maximum protection. All exterior tank joints and seams including the tank wrap shall be extrusion welded and /or contain the *Bent Edge*® and tested for maximum strength and integrity. Polyprene ® foam tank shall include seal and breather vent with .1 PSI. Foam tanks 100 gallons or more to include foam expansion dome to be 3% of total capacity. Foam cell shall incorporate fill and drain fittings per customer requirements. Foam cell shall also include foam fill diffuser per NFPA requirements and a foam fill tube. The top of the tank is outfitted with removable lifting eyes designed with a 3 to 1 safety factor to facilitate easy removability.

Unless otherwise specified, the tank shall rest on the body cross members in conjunction with such additional cross members, spaced at a distance that would not allow for more than 530 square inches of unsupported area under the tank floor. In cases where overall height of the tank exceeds 40 inches, cross member spacing must be decreased to allow for not more than 400 square inches of unsupported area.

Unless otherwise specified, the tank must be isolated from the cross members through the use of hard rubber strips with a minimum thickness and width dimension of ¼” x 2” and a minimum Rockwell hardness of 60 durometer. Additionally, the tank must be supported around the entire bottom outside perimeter and captured at both front and rear as well as side to side to prevent tank from shifting during vehicle operation.

Unless otherwise specified, a picture frame type cradle mount shall be utilized with a minimum 2”x 2” x ¼” mild steel, stainless steel or aluminum angle. Where aluminum or steel tubing and channel sub frames are incorporated in the body structure, the use of corner angles having a minimum dimension of 4”x 4” x ¼” by 6” high are permitted for the purpose of capturing the tank.

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Although the tank is designed as a free-floating suspension unit, it is required that the tank have adequate hold down restraints to minimize movement during vehicle operation. If proper retention has not been incorporated into the apparatus hose floor structure, an optional mounting restraint system shall be located on the top of the tank, halfway between the front and rear on each side of the tank. These stops can be constructed of steel, stainless steel or aluminum angle having minimum dimensions of 3" x 3" x 1/4" and shall be approximately 6 to 12 inches long. These brackets must incorporate a hard rubber isolating pad with a minimum thickness of 1/4" affixed on the underside of the angle. The angle should then be bolted to the body side wall of the vehicle while extending down to rest on the top outside edge of the upper side wall of the tank.

Internal mounting block design and hose bed floor must be so designed that the floor slat supports extend full width from side wall to side wall and are not permitted to drop off the edge of the tank or in any way come in contact with the individual covers where a puncture could occur.

Hose floor loading must support up to 200 lbs. per square foot and must be evenly distributed whenever possible. Other equipment such as generators, portable pumps, etc., must not be mounted directly to the tank top unless provisions have been designed into the tank for that purpose. The tank shall be completely removable without disturbing or dismantling the apparatus structure.