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30-05-9900 **StakPak BODY SYSTEM**

The StakPak body by PolyBilt is an all Polyprene constructed flat bed unit, which combines the efficiency of integrated tank/body construction and design with the rugged impact strength of Polyprene material to deliver the toughest, most durable grass/brush fire truck available today.

The pump and plumbing shall be mounted to an integral body and tank mounting system. The StakPak shall include an integral 300 gallon Polyprene water tank, platform for pump mounting and plumbing and up to six (6) spacious compartments. Optional tank gallonage up to 500 available as well as foam tank option. This unit shall be mounted directly to the chassis frame via the Steel Flex™ mount system.

**INTEGRAL BODY/TANK CONSTRUCTION**

The body and water tank shall be fabricated using Polyprene, a specially formulated high strength copolymer material; providing a durable, impact resistant, corrosion resistant, and lightweight design. The water tank shall be integral with the body for maximum utilization of space.

The complete high side unit shall be approximately 96" wide x 110" long x 43" high.

An optional low side unit shall be approximately 96" x 110" x 27" so that visibility from the rear cab window is maximized.

**BODY CONSTRUCTION**

The body shall be fabricated using Polyprene, a specially formulated high strength, copolymer material, providing a durable, impact resistant, corrosion resistant, and lightweight body. The body shall be fabricated using Polyprene extruded sheets. Sheet thicknesses shall be 3/8", 1/2" and 3/4". All seams shall be welded pursuant to ASTM Standards. All outside corners on body shall have a minimum 1/4" radius. The entire body shall be a welded one piece module, assembled and painted (optional) prior to mounting on the subframe and the chassis.

Due to the importance of the strength and impact resistance of the copolymer material, there shall be no exception to these requirements.

Only builders who can show examples of previous copolymer constructed bodies shall be accepted.



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### **300 GALLON TANK - POLYPRENE**

Booster tank shall be constructed of Polypropylene baffled to meet the requirements of NFPA.

The tank shall be provided with at least one (1) full-length swash partition (baffle) and a sufficient number of width-wise baffles so that the maximum dimension of any spaces in the tank, either transverse or longitudinal, shall not exceed 46", and not less than 23". Baffles shall have openings at both the top and bottom to permit movement of air and water between spaces to allow maximum flow requirements. Baffles shall form an integral part of the tank, and design shall be to provide and maintain safe road stability regardless of water level.

Tank shall have 2-1/2" minimum overflow and air vent designed to prevent damage to the tank under high flow conditions and enclosed in front tank filler. Tank filler to extend upward from hose bed the same height as body sides. Overflow is to be designed and located to prevent water loss on fast stops or starts, and is also to be located so as not to affect traction on the rear tires per NFPA #1901.

Tank outlet connection shall be designed with a 12" anti-swirl baffle plate above tank outlet to prevent air from mixing with the water when pumping from the tank.

Fill tower shall be installed on front corner of the tank in tank top. It shall be of adequate size, minimum 10" X 10", to accommodate overflow and vents, to have a hinged cover and screen installed.

The tank shall be mounted to the skid framework.

A limited lifetime warranty shall be provided from the tank manufacturer.

### **FOAM TANK**

One (1) 10 gallon foam tank shall be provided, integral with the water tank and shall have a rectangular fill tower, approximately 10" x 10", with a hinged cover and a removable screen. A tank drain shall be provided inside the pump compartment.

**BODY/TANK MOUNTING – a sub frame using the Steel Flex™ system shall be required and is priced optional and separately.**

The body and tank shall be mounted to a painted metal or optional aluminum sub frame constructed from 3" channel to support the tank and pump. The tank shall be extrusion welded to the base for maximum strength and integrity. The unit shall be bolted to the chassis with 4 point spring loaded mounting hardware (provided).

The unit shall be constructed with a platform covered with smooth or optional matte black Polypropylene sheet and bolted to the frame.

The body subframe shall be bolted to the chassis frame.



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## **COMPARTMENTS**

### **DRIVER SIDE**

- 1.) One (1) compartment ahead of the left side rear wheels, approximately 53" wide 38" high x 23.50" deep. The door opening shall be approximately 50" wide x 36" high.
- 2.) One (1) compartment located directly behind forward compartment with same dimensions as forward compartment.
- 3.) StakPak bodies may be designed with optional three (3) compartments per side wherein each compartment dimension width would be reduced proportionately.

**PASSENGER SIDE** - The passenger side shall mirror the drivers side.

### 35-90-1150 **ROLL UP DOOR CONSTRUCTION (Optional)**

Robinson or equal brand roll-up style doors shall be provided at the specified door locations.

Each door shall be manufactured in the United States. Replacement parts shall be available within 2-3 working days.

The door slats shall be double wall box frame extrusion. The exterior surface of slat will be flat and interior surface to be concave to prevent loose equipment from jamming the door. Door slats shall be anodized to prevent oxidation. Door slats to have interlocking end shoes on every slat to be secured by a punch dimple process. The door slats shall have interlocking joints with a folding locking flange. A PVC/vinyl inner seal to prevent any metal to metal contact shall be provided between each slat.

Each track shall be one piece construction with attaching flange and finishing flange incorporated into the design. The flange design eliminates any requirement for additional trim or caulk. Each track shall have a replaceable seal to prevent water and dust from entering the compartment.

Each assembly shall include an aluminum drip rail with a replaceable wiper seal.

Each roll-up door shall have a 4" counterbalance spring in the roller assembly to assist in lifting and help prevent the accidental closing.

A full width lift bar shall secure each door.

The side roll up doors shall be in a natural aluminum brushed finish.



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40-10-2000 **PAINT FINISH (Optional)**

The apparatus shall be finish painted with DuPont Chroma System Paint. The compartment doors, if painted, shall be painted separately to ensure proper paint coverage on the body edges.

The apparatus shall be prepared and painted using the following procedures.

All surfaces to be painted shall be prepared and cleaned using soap and water. Prep-Sol 3919S or Kwik-Clean 3949S shall be used to remove any tar, wax, polish and grease.

All surfaces to be painted shall be scuffed using 80 - 150 grit sandpaper. All surfaces shall receive a final wipe using Lacquer and Enamel Cleaner 3939S followed up with Plastic Prep 2319S.

Two medium wet coats of Adhesion Promoter for Plastics 2322S shall be applied to all surfaces to be painted.

All surfaces to be painted shall be primed with URO Primer-Filler 1140S. The primer mixture shall contain four (4) parts primer, one (1) part Activator 1125S, one and a half (1.5) parts Converter 1130S, and one-half (.5) parts Flex Additive 2350S.

Two applications of primer shall be applied. The first application shall be four (4) coats and the second application shall be three (3) coats.

A final application of sealer shall be applied using URO Primer-Filler 1140S. The sealer mixture shall contain four (4) parts primer, one (1) part Activator 1125S, two (2) parts Converter 1130S and one-half (.5) Flex Additive 2350S

The base coat shall be Dupont Chromabase. The paint shall be applied according to DuPont base coat application instructions. The base coat shall be ChromaBase mixed with 5% Flex Additive 2350S.

The clear coat shall be DuPont ChromaClear. The clearcoat shall be applied according to DuPont clear coat application instructions. The clear coat shall be ChromaClear Multi-Use 7500S and mixed with 5% Flex Additive 2350S.

The compartment interiors shall be unpainted and in their natural white finish.

A pint of touch up paint shall be provided for each color used.

A Five-Year Warranty from the paint manufacturer shall be included. The Warranty shall include 100% product and 100% labor.

40-12-1000 **PAINT COLOR (Optional)**

The apparatus body shall be painted per customer requirements.



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