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Specification for Plastic Safety Systems “Anchor™” Type III Plastic Barricade 11/14/05

General Specifications

- 1.) “The Anchor™” Type III barricade should
 - meet or exceed current MUTCD specifications,
 - have NHCRP-350 Certification and FHWA Acceptance Letters
- 2.) Further, “The Anchor™” Barricade should be approved for use with a maximum of 25 square feet of “lightweight” or rollup signage. It also should be approved for use with 7’ tall plastic uprights.
- 3.) The major components of “The “Anchor™” Type III Barricade are manufactured from High Density Polyethylene (HDPE) plastic resin. The color is ultra-violet stable white.
- 4.) “The Anchor™” Type III Plastic Barricade should consist of the following major components:
 - “The Anchor™” Base: 2 each per barricade.
 - “The Mast™” Upright: 2 each per barricade.
 - “The Wave™” Centerboard: 3 each per barricade.
- 5.) All retro-reflective sheeting should comply with state specifications. Only products listed on the respective state DOT Approved Products Lists will be used.

Component Specifications:

1.) “The Anchor™” Base should include the following:

- “The Anchor™” base is made from durable UV stabilized HDPE resin.
- 2 each bases are required to make a complete barricade.
- “The Anchor™” base is hollow, and can be filled with sand.
- “The Anchor™” base weighs 6 lbs., empty.
- “The Anchor™” base should hold up to 45 lbs. of sand.
- A plastic fill plug will contain the sand.
- “The Anchor™” base is of a rectangular shape.
- Nominal dimensions for “The Anchor™” base are 48” long x 6” high x 3 3/4” wide at the feet, and 7 1/2” wide at the carrying handle.
- “The Anchor™” base will include 2 each non-skid, rubber pads for increased stability.
- “The Anchor™” base has a handle for manual lifting and transporting.
- “The Anchor™” base has a square hole, 3 3/8” x 3 3/8”, into which “The Mast™” upright will fit snugly.
- As an option, another version of “The Anchor™” Base should be manufactured and made available with a hole size of 1 3/4” x 1 3/4”, to accommodate steel tubing or plastic uprights.

Component Specifications, continued:

2.) “The Mast™” Upright should include the following:

- Each upright is made from durable UV stabilized HDPE resin.
- 2 each uprights are required to make a complete barricade.
- “The Mast™” Upright accepts “The Wave™” molded centerboard; the PSS extruded board; other centerboards.
- The upright is of a square, post-like shape. Nominal measurements are: 64” tall x 3 ½” x 3 ½”. Each upright weighs 4.5 lbs.
- Where a state specification requires an 84” tall upright, Plastic Safety Systems, Inc. plain extruded uprights, nominal size of 4” x 4” x 84”, are acceptable as a substitute.
- The bottom 6 ½” of the upright should be square on all 4 sides, to snugly fit in “The Anchor™” base.
- The upright has 3 sets of Raised Centerboard Locators (RCL), located on the front of the Upright. The RCL allows for easy alignment and installation of centerboards on 20” centers.
- Each RCL set contains a top and bottom locator, for the top and bottom of centerboard. They measure 8 3/8” apart, inside to inside.
- The upright includes hardware holes, two of which are placed within each RCL set, for mounting of the centerboards. The holes are molded completely through the upright. The holes are recessed to allow the use of flush-mounted hardware.
- The holes are located 5 ¼” on center.
- A Warning Light mount fixture is located at the top of “The Mast™” upright. This fixture is complete with a mounting hole, for installation of warning lights.
- “The Mast™” upright also includes 2 Holes for mounting flags, located near the top of the upright, one on each side. The flag holes are 1/2” in diameter, and can be drilled out to ¾”. The depth of the hole is 4”.

Component Specifications, continued:

3.) “The Wave™” centerboard should include the following:

- Each centerboard is made from durable UV stabilized prime HDPE resin.
- 3 each centerboards are required to make a complete barricade.
- “The Wave™” is manufactured in 4’, 6’ and 8’ lengths. Where a state specification requires a different length, Plastic Safety Systems, Inc. plain extruded panels are acceptable as a substitute.
- The nominal dimensions of “The Wave™” centerboard are: .80” thick x 8.25” wide, x 4’, 6’ or 8’ lengths.
- For added strength and reboundability, the face of the “The Wave™” centerboard has 7 grooved, continuous “waves” running horizontally across the entire length.
- “The Wave™” centerboard includes mounting holes, for mounting it on “The Mast™” Upright, or the Plastic Safety Systems, Inc., plain extruded Upright. The holes are molded completely through the centerboard. The holes are recessed to allow the use of flush-mounted hardware.
- The holes are arranged vertically on “The Wave™” centerboard, to align with the recessed holes found on “The Mast™” Upright. The top hole is located 1 ½” from the top, the bottom the same distance. They measure 5 ¼” apart, vertically.
- For the 4’ “The Wave™” centerboard, there are 2 sets of recessed, molded, mounting holes. Both sets are located near each end, measuring 2” from the end of the centerboard.
- For the 6’ “The Wave™” centerboard, there are 2 sets of recessed, molded, mounted holes. Both sets are located near each end, measuring 14” from the end of the centerboard.
- For the 8’ “The Wave™” centerboard, there are 4 sets of recessed, molded holes. The external set is located 10” from each end of the centerboard. The internal set is located 26” from each end of the centerboard.
- To install “The Wave™” centerboard on “The Mast™” upright, flush-mounted hardware is preferred. 1 set of flush-mounted hardware consists of 1 bolt, 1 pallet nut, and 1 washer. The bolt measures ¼ – 20 UNC x 3 ½” long. The pallet nut and washer are ¼” diameter. 4 sets of flush-mounted hardware are required per centerboard.