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## **Specification for Plastic Safety Systems Anchor® Type III Plastic Barricade Rev 1, April 2009**

### **General Specifications**

- 1.) PSS Anchor Type III barricade should
  - meet or exceed current MUTCD specifications,
  - have NHCRP-350 Certification and FHWA Acceptance Letters
- 2.) Further, Anchor Type III 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 Anchor Type III Barricade are manufactured from High Density Polyethylene (HDPE) plastic resin. The color is ultra-violet stable white.
- 4.) Anchor Type III Plastic Barricade should consist of the following major components:
  - Anchor® Base: 2 each per barricade.
  - 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.

# **Anchor Type III Plastic Barricade Specification**

## **Component Specifications:**

### **1.) Anchor Base should include the following:**

- Anchor base is made from durable UV stabilized HDPE resin.
- 2 each bases are required to make a complete barricade.
- Anchor base is hollow, and can be filled with sand.
- Anchor base weighs 6 lbs., empty.
- Anchor base should hold up to 45 lbs. of sand.
- A plastic fill plug will contain the sand.
- Anchor base is of a rectangular shape.
- Anchor base is available in 48" length and 60" length. Other nominal dimensions: 6" high x 3 3/4" wide at the feet, and 7 1/2" wide at the carrying handle.
- Anchor base will include 2 each non-skid, rubber pads for increased stability.
- Anchor base has a handle for manual lifting and transporting.
- Anchor base has a square hole, 3 3/8" x 3 3/8", into which Anchor Mast upright will fit snugly.
- As an option, another version of Anchor Base should be manufactured and made available with a hole size of 1 \_" x 1 \_", to accommodate steel tubing or plastic uprights.

# Anchor Type III Plastic Barricade Specification

## Component Specifications, continued:

### 2.) Anchor 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.
- Anchor 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 1/2" x 3 1/2". 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 1/2" of the upright should be square on all 4 sides, to snugly fit in 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 1/2" on center.
- A Warning Light mount fixture is located at the top of Anchor Mast Upright. This fixture is complete with a mounting hole, for installation of warning lights.
- Anchor 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 1 1/2". The depth of the hole is 4".

# **Anchor Type III Plastic Barricade Specification**

## **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 Anchor 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 Anchor Mast Upright. The top hole is located 1 \_" from the top, the bottom the same distance. They measure 5 1/4" 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 Anchor 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 \_ – 20 UNC x 3 \_" long. The pallet nut and washer are \_" diameter. 4 sets of flush-mounted hardware are required per centerboard.