

**DEPARTMENT OF TRANSPORTATION**  
DIVISION OF ENGINEERING SERVICES  
MATERIALS ENGINEERING AND TESTING SERVICES  
TRANSPORTATION LABORATORY—MS 5  
5900 FOLSOM BOULEVARD, ROOM 151  
SACRAMENTO, CA 95819-4612  
E-MAIL: <New\_Products@dot.ca.gov>  
PHONE: (916) 227-7073  
FAX: (916) 227-7118  
TTY: 711



*Flex your power!  
Be energy efficient!*

October 6, 2009

Mr. Mark Rutenbeck  
Custom Pak, Inc.  
86 16<sup>th</sup> Avenue  
Clinton, IA 52732

Dear Mr. Rutenbeck:

The California Department of Transportation (Caltrans) has reviewed the following new product:

<u>Product</u>	<u>Tracking Number</u>
Arrow Top Delineator, Model #93001-1008	NPE 09-06-008

The Traffic Control Devices New Products Committee has reviewed this product and has the following comments:

- The Arrow Top Delineator is a temporary traffic delineation device which is used in the work zones and it can be used by the Contractor provided it meets the description of the Standard Specification Section 12-3.04, "Portable Delineators". A copy of Section 12-3.04 is enclosed for your reference.
- Caltrans does not have a Qualified Products List (QPL) category for this type of device.
- The submitted product falls under Category 1 and Category 1 includes devices that are small and lightweight (less than 45 kg). These include traffic cones, plastic drums, portable delineators, and channelizers. Category 1 devices shall be employed based on the vendor's self-certification. Self-certification shall be based on crash testing, crash testing of similar devices, or years of demonstrable safe performance.

Should you have any technical questions, please contact Mr. Devinder Singh with the Traffic Control Devices New Products Committee. Mr. Singh can be reached at (916) 654-4715.

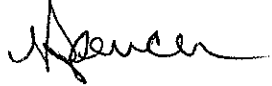
Mr. Mark Rutenbeck

October 6, 2009

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Thank you for giving Caltrans the opportunity to review this product. If you have any questions regarding the new products review process, please contact the New Products Desk at (916) 227-7073.

Sincerely,



L. JANIE SPENCER  
New Products Coordinator  
Materials Engineering and Testing Services  
Division of Engineering Services

cc: DSingh – TO/Signs, Markings, and External Support

## SECTION 12 CONSTRUCTION AREA TRAFFIC CONTROL DEVICES

Regardless of the source, the supply of electrical energy shall be capable of operating the sign in the manner specified.

### 12-3.04 PORTABLE DELINEATORS

- Portable delineators, including the base, shall be composed of a material that has sufficient rigidity to remain upright when unattended and shall be either flexible or collapsible upon impact by a vehicle. The base shall be of such shape as to preclude roll after impact. The base shall be of sufficient weight or shall be anchored in a manner such that the delineator shall remain in an upright position. Ballast, if used for the bases of portable delineators, shall be sand or water.
- If the portable delineators are displaced or are not in an upright position, from any cause, the delineators shall immediately be replaced or restored to their original location, in an upright position, by the Contractor.
- The vertical portion of the portable delineators shall be of a fluorescent orange or predominantly orange color. The posts shall be not less than 3 inches in width or diameter. The minimum height shall be 36 inches above the traveled way.
- A minimum of 2 retroreflective bands, each not less than 3 inches wide, shall be mounted a minimum of 1 1/2 inches apart and at a height on the post so that one retroreflective band will be between 2.5 feet and 3 feet above the roadway surface.
- Retroreflective bands shall be white and shall be fabricated from flexible reflective sheeting as specified in the special provisions. The retroreflective bands shall be visible at 1,000 feet at night under illumination of legal high beam headlights, by persons with vision of or corrected to 20/20.
- Only one type of portable delineator shall be used on the project. The type of portable delineator proposed for use on the project shall be submitted to the Engineer for approval prior to placement on the project.

### 12-3.05 PORTABLE FLASHING BEACONS

- Each portable flashing beacon unit shall consist of a lighting unit, a flasher unit, a standard, a battery power source and a base. The units shall be assembled to form a complete, self-contained, flashing beacon which can be delivered to the site of use and placed in immediate operation.
- The lens for the beacon lighting unit shall have a visible diameter of 12 inches. The lens shall be glass or plastic conforming to the requirements in ANSI Standard: D-10.1 for yellow traffic signal lens.
- The beacon lighting unit shall be provided with a 8-inch minimum length visor and a backplate. Visors will not be required during the hours of darkness.
- The flasher unit shall provide 50 flashes to 60 flashes per minute with 250 milliseconds to 350 milliseconds dwell time.
- The standard shall be adjustable to provide a variable mounting of the lighting unit between 6 feet and 10 feet, measured from the bottom of the base to the center of the lens, with provisions for securing the standard at the desired height. The standard shall be securely attached to the base and a sufficient length of multi-conductor, neoprene jacketed cable as required for full vertical height shall be provided.