



DRUM-LIKE CHANNELIZERS MGS-93-04D

1.0 DESCRIPTION. This specification covers drum-like channelizers.

2.0 MATERIALS.

2.2 GENERAL. Channelizers shall be manufactured from a non-metallic material compounded to meet the requirements of this specification. The channelizer shall be a two-piece (drum portion and ballast portion) design capable of being securely fastened together in such a manner as to prevent accidental separation from air turbulence created by such things as passing trucks or normal winds. Channelizer seams shall be equal in strength to the rest of the channelizer. Channelizers shall exhibit good workmanship and shall be free of objectionable marks or defects that affect appearance or serviceability. The brand name or model number shall be clearly visible on the channelizer for identification.

2.2.1 DRUM. The drum portion shall be pigmented and molded of a Highway Orange color throughout and stabilized against fading by ultra-violet or other light rays by the incorporation of adequate inhibitors. The drum shall be circular in shape with a closed top and shall be approximately 36 inches high and a minimum of 18 inches in diameter at the narrowest point. The top surface of the channelizer, including any recessed areas, shall be designed to drain. The drum shall be augmented with alternating orange and white (four total), six-inch wide retroreflective markings applied to the drum in a horizontal and circumferential manner and separated by no more than two inches. The retroreflective markings shall be manufactured of reboundable Type III sheeting in accordance with ASTM D 4956, including Supplemental Requirement Section S2, and designed for use on flexible channelizers.

2.2.2 BALLAST. The ballast portion shall comply with one of the following designs:

a) A hollow base capable of containing up to 50 pounds of loose dry sand. Hollow base ballasts shall be capable of being filled and sealed to retain the ballast material and shall have a handle(s) such that the ballast portion could be moved by hand.

b) A flat exterior-mounted flexible ring that rests on the ground when installed on the drum. The ballast shall weigh approximately 25 pounds and shall not exceed 36 inches outside diameter.

c) A solid weighted bottom to which the drum portion is attached. The solid weighted bottom shall weigh 40 ± 2.5 pounds and shall not exceed 30 inches in outside diameter.

3.0 QUALIFICATION. Acceptable drum-like channelizer brands and models are specified on MoDOT's "Qualified Flexible Non-Metallic Drum-Like Channelizers" list or shall have received NTPEP test results indicating less than 5% distress, less than 5% sheeting damage, complete restackability, and no instances of a channelizer or the ballast being lodged under the vehicle.

4.0 CERTIFICATION. The manufacturer shall provide written certification indicating the drum-like channelizers are in accordance with the requirements of NCHRP 350, Test Level 3 and with this specification.

5.0 BASIS OF ACCEPTANCE. Acceptance of drum-like channelizers will be by certification and testing for compliance with this specification.