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Cortina Safety Products
Surface Mount Channelizer

1. DESCRIPTION

These specifications define requirements for high performance, surface mounted, and flexible plastic channelization and delineation devices. This device is to be bonded to asphalt or concrete surfaces to provide traffic control in areas requiring easy channelization removal or relocation, with excellent impact resistance.

2. GENERAL REQUIREMENTS

2.1 DESIGN

The channelizer shall incorporate a vertical tube to accept reflective sheeting, and a flexible boot to provide impact rebound. The post member shall be capable of being easily and quickly removed from the base.

2.2 MATERIAL

The material shall be a flexible polymers and elastomers, which shall be resistant to impact, ultraviolet light, ozone, and hydrocarbons, and shall remain impact resistant from - 20°F to +120°F.

2.3 WORKMANSHIP

The post and base shall exhibit good workmanship and shall be free of burns, discoloration, contamination, and other objectionable marks or defects that effect appearance or serviceability.

2.4 INSTALLATION

The installation system shall consist of either a thermoplastic adhesive or a pad of flexible mastic adhesive.

3. PHYSICAL AND MECHANICAL REQUIREMENTS

3.1 DIMENSIONS

The Channelizer shall conform to the dimensions shown in figure 1.

3.1.1 Width

The Channelizer tube shall have a minimum cylindrical diameter of 2.25 inches.

3.1.2 Height

The height shall be specified by the customer specification.

3.1.3 Base

The base shall not exceed (1 7/8") inch in height.



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3.2 COLOR

The color of the channelizer shall be white, yellow, or orange, as dictated by appropriate MUTCD guidelines for the particular application.

3.3 TENSILE STRENGTH

The Channelizer tube shall have a minimum tensile strength of 1500 pounds per square inch. The tensile stress shall be determined in accordance with "Standard Method of Test for Tensile Properties of Plastic", ASTM designation D638 (Test Specimen Type I).

3.4 TEMPERATURE RESISTANCE

3.4.1 Heat Resistance:

The Channelizer units shall be conditioned a minimum of 2 hours at $120^{\circ}\text{F} \pm 3^{\circ}\text{F}$. The unit shall then be held in a vertical position on a solid surface, as it would be in field use, and the post member bent 90° such that the post end touches the floor surface. The post member shall return to within 5° of the upright position within 15 seconds. The bend test shall be repeated 3 times in quick succession, completing the test within 2.5 minutes of channelizer removal from the conditioned temperature.

3.4.2 Cold Resistance: The Channelizer shall meet requirements of 3.4.1 when conditioned -20° for 2 hours.

3.4.3 Cold Resistant Impact Test: The tube portion of the channelizer shall be conditioned for a minimum of 2 hours at $-20^{\circ}\text{F} \pm 3^{\circ}\text{F}$. The tube shall then be struck flush against a flat surface 3 times within two minutes after removal from the conditioning chamber. To strike the tube it should be manually swung through a 90° arc, the tube shall not fracture or shatter upon impact.

3.5 IMPACT RESISTANCE

The channelizer shall be installed in accordance with the manufacturer's instructions. The channelizer shall be capable of withstanding numerous impacts at 55 mph into the traffic face of the post by the bumper of a typical American Sedan.

4. REFLECTORS

4.1 DESCRIPTION

The reflector shall be a 3" minimum width impact resistant band of retro reflective sheeting with pressure sensitive backing unless otherwise specified by ordering agent.

4.2 MOUNTING

Unless otherwise specified, the sheeting shall be placed a maximum of 2" from the top of the tube. The sheeting shall be of appropriate color to meet requirements of MUTCD.