

**CHANNELIZING DEVICE MATERIALS.**  
**(REV 5-1-23)**

SECTION 991 is expanded by the following new Article:

**991-2 Channelizing Curb.**

**991-2.1 General:** Manufacturers seeking evaluation of Channelizing Curb products for inclusion on the Department's Approved Product List (APL) shall submit an application in accordance with Section 6 and include the following documentation:

Documentation	Requirement
Product Photo	Displays the significant features of the product.
Detail Drawing	Drawing must include plan and elevation views identifying all physical dimensions and locations of mechanical anchors.
Technical Data Sheet	Uniquely identifies the product and includes product specifications, storage instructions, and recommended installation materials and equipment as applicable.
Safety Data Sheet for Channelizing Curb	Non-Hazardous, per RCRA Subtitle C
Safety Data Sheet for Adhesive (if required)	SDS meeting OSHA requirements for product and manufacturer recommended installation materials as applicable.
Installation Instructions	Include mounting surface preparations, and touch-up and repair procedures. Separate installation instructions are required for different substrates.
Product Sample	Upon request from the Department, submit a sample of the material or hardware. If the product is a system comprised of multiple parts, a sample of each part must be submitted.

**991-2.2 Physical Properties:** Channelizing curb must consist of preformed weather resistant segments that are surface applied to asphalt or concrete with mechanical anchors and/or epoxy adhesive. The segments shall be made of a durable elastomeric or polymer-based material intended for exterior use subject to vehicular traffic, and meeting the following physical properties:

Table 991-3			
PROPERTY	Unit	Test	Minimum Value
Hardness	ShD	ASTM D2240	38
Tensile Strength	MPa	ASTM D638	9.0
Elongation at Break	%	ASTM D638	10
Tear Resistance	kN/m	ASTM 624	25 (for elastomeric materials only)
Resistance to Acids		ASTM D471	Excellent
Resistance to Bases		ASTM D471	Excellent
Density	g/cm <sup>3</sup>	ASTM D792	0.900

**991-2.3 Additional Requirements:** Channelizing Curb materials shall be characterized as non-hazardous as defined by Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Provide supporting independent analytical data or product material safety data sheets (SDS) identifying any components listed in Table 1 of 40 CFR 261.24.

**991-2.4 Hardened Centerlines:** The height of hardened centerlines must range from 2 inches to 3.5 inches. The width must range from 8 inches to 16 inches. Each separator may be composed of multiple segments. Color must match the pavement marking being supplemented. Color must be uniform and integral throughout the product.

**991-2.5 Bike Lane Separators:** The height of bike lane separators must be at least 2 inches and no more than 6 inches. The width must be at least 8 inches and no more than 12 inches. Each separator may be composed of multiple segments. Color of the top half must match the pavement marking being supplemented. The color of the bottom half may be black, or the same as the top half.