

## Evaluation Table

<b>PEP ID:</b>	XXXXXX
<b>Manufacturer:</b>	<b>Name of Manufacturer</b>
<b>Product Name:</b>	<b>Name of Product</b>

703 Delineators and Markers

703 Channelizing Devices: Flexible Delineators – Surface Mount

ADOT Standard Specification: 703

ADOT Standard Drawing: M-26 series

Responsible Section: Traffic Group

<b>Material Property</b>	<b>Specification/ Test Method</b>	<b>Requirement</b>	<b>Results</b>	<b>Pass/ Fail</b>
Assembly	703-2.01	Flexible delineators shall be two-piece or three-piece assemblies.		
Assembly: two-piece	703-2.01	Two-piece flexible delineator assemblies shall consist of a hollow flexible delineator post with an integral base transition segment, and a separate foundation unit.		
Assembly: three-piece	703-2.01	Three-piece flexible delineator assemblies shall consist of a hollow flexible delineator post, a separate base transition unit, and a separate foundation unit.		
Reflective Sheeting Type	703-2.06 ASTM D4956	Shall be Type IX		
Reflective Sheeting Compliance	703-2.06 ASTM D4956	Shall conform to applicable criteria in ASTM D4956 including class, color, specific intensity per unit area (SIA), color processing, adhesive, and artificial weathering.		
Reflective Sheeting Applied	703-2.06	All sheeting shall be applied on flexible delineators in the factory by the manufacturer.		
Reflective Sheeting Size and Color	703-2.06 M-26 (2 of 5) M-26 (3 of 5)	Comply with M-26 (2 of 5) Comply with M-26 (3 of 5)		

<b>Material Property</b>	<b>Specification/ Test Method</b>	<b>Requirement</b>	<b>Results</b>	<b>Pass/ Fail</b>
Reflective Sheeting Location	703-2.06	Shall be installed at the horizontal center of the flexible delineator posts, with the top of the sheeting not more than 1 inch from the top of the post.		
Hardware	703-2.08	Steel bolts and nuts of the types shown on the plans shall be galvanized in accordance with the requirements of ASTM A153 or shall be cadmium plated in accordance with the requirements of ASTM B766.		
Base Transition Segments for Three-Piece Delineators	703-2.09	Base transition segments for three-piece flexible delineator assemblies shall be separate replaceable, semi-flexible or rigid, non-metallic units for installation between flexible delineator posts and foundation units. The base transition unit shall include all hardware for attaching the transition unit to the flexible delineator post.		
Impact Resistance	703-2.10	Shall be manufactured from an impact resistant material such that an installed delineator assembly can withstand ten vehicle impacts at 55 mph at temperatures of 40 degrees F or above without breakage or loss of serviceability, and straighten itself to within 5 degrees of its original orientation. Little or no damage shall be caused to the impacting vehicle. The test vehicle shall be a typical sedan.		
Impact Resistance	703-2.10	The devices shall also be capable of sustaining one wheel hit during testing at 55 mph without loss of serviceability.		

Material Property	Specification/ Test Method	Requirement	Results	Pass/ Fail
Color	703-2.10	Shall be pigmented throughout the entire cross-section (or entire cross-section of the outer layer of multi-layered, multi-material units) so as to produce a uniform color which is an integral part of the material.		
Color Fading	703-2.10	Shall exhibit negligible color fading after 1,000 hours of Xenon Arc Exposure (ASTM G155).		
Life Expectancy	703-2.10	Shall be made of durable, ultraviolet-resistant, impact-resistant, non-warping, non-metallic, polymeric materials designed for a minimum of 120 months of outdoor service life.		
Rigidity	703-2.10	Shall be sufficiently rigid to resist wilting after conditioning for a minimum of two hours at 180 degrees F $\pm$ 3 degrees F. The posts shall be conditioned for a minimum of two hours at minus 5 degrees F $\pm$ 3 degrees F in an environmentally controlled test chamber. The testing shall be performed in the environmentally controlled chamber. The devices shall be sufficiently flexible to permit three 180-degree bends at the midpoint without cracking, and with each item straightening itself to within 5 degrees of its original orientation within 60 seconds.		
Color	703-2.10 M-26 (2 of 5) M-26 (3 of 5)	Comply with M-26 (2 of 5) Comply with M-26 (3 of 5)		
Hardware	703-2.10	Shall include all hardware for attaching the flexible delineator post to the foundation unit and, if applicable, to the separate base transition segment.		

<b>Material Property</b>	<b>Specification/ Test Method</b>	<b>Requirement</b>	<b>Results</b>	<b>Pass/ Fail</b>
Insertion Length, Assembly into Foundation Unit	703-2.11	Shall be 2.75 +/- 0.50 inches		
Bolt Mounted Units	703-2.11	Shall accommodate a minimum of four anchor bolts for attachment to the pavement.		
Bolts for Bolt Mounted Units	703-2.11	Shall be tempered steel capable of 5,000 pounds in tension.		
Post Length	M-26 (2 of 5)	48 inches: (white, yellow, red)		
Post Wall Thickness, min	M-26 (3 of 5)	1/8 inch		
Surface Mount Foundation Unit Details	M-26 (5 of 5)	All required epoxy adhesives or fasteners shall be included.		
Surface Mount Foundation Unit Details	M-26 (5 of 5)	Maximum dimension shall not exceed 15 inches for pavement surface and 8 inches for bridge concrete barrier.		
Surface Mount Foundation Unit Details	M-26 (5 of 5)	Shall be larger than or equal to 40 square inches and less than or equal to 115 square inches.		
Surface Mount Foundation Unit Details	M-26 (5 of 5)	Largest dimension shall not be greater than double the least dimension.		