

CONSTRUCTION CONCRETE BARRIER MARKERS

TYPE 1

<u>Product</u>	<u>Reflecting Surface</u> <u>Color</u>	<u>Manufacturer</u>
AKT 183 Clear AKT 183 Amber	White Yellow	AKT Corporation 6318 West State Street Wauwatosa, Wisconsin 53213
JD Series Flex Barrier Marker	White Yellow White Yellow	Vega Molded Products 122 Industrial Dr. Gilberts, Illinois 60136
Standard 3" Delineator	White Yellow	
JD Series	White Yellow	Astro Optics Corp. 1200 Abbott Drive Elgin, Illinois 60123

TYPE 2

<u>Product</u>	<u>Reflecting Surface</u> <u>Color</u>	<u>Manufacturer</u>
FB-33 Series FB-34 Series	White Yellow White Yellow	Astro Optics Corp. 1200 Abbott Drive Elgin, Illinois 60123
FT Series	White Yellow	
FB-33 Series FB-34 Series	White Yellow White Yellow	Artuk Inc. 6318 West State Street Wauwatosa, Wisconsin 53213
PCBM Series (May have -9 indicating 9 sq in; and "DG"-Diamond Grade Sheeting or "HI"- High Intensity sheeting on box, i.e. PCBM-9 HI)	White Yellow	Pexco, LLC Davidson Traffic Control Products 3110 70th Ave. East Tacoma, Washington 98424
TD9300 Series	White Yellow	Three D Traffic Works Inc. 430 N. Varney Burbank, California 91502

Method of Documentation of Acceptance: By brand and manufacturer.

Procedure to be followed in acquiring approval of materials to be added to QPL:

1. Barrier markers shall be of one of the following types:

Type 1 A retroreflector having a minimum reflective area of 7 sq. in. (4515 mm²) and acrylic plastic prismatic elements. The reflector shall have a smooth, clear, transparent face, and be permanently sealed against the intrusion of dust, water or air.

Type 1 reflectors minimum reflectance requirements:

Observation angle	Entrance Angle	White cd/fc	Yellow cd/fc
0.1	0°	115	70
0.1	20°	45	25

Type 2 A retroreflector having a minimum reflective area of 9 sq. in. (5805 mm²). The reflective surface shall be reflective sheeting conforming to ASTM D 4956, Type III(AASHTO M 268, Type III) , IV(AASHTO M 268, Type IV), VII(AASHTO M 268, Type V), VIII, or IX, and shall be applied to a metal or a plastic mounting. The reflective sheeting shall be listed on the Department's Qualified Products List (QPL) for reflective sheeting, QPL 723.03.

2. The manufacturer shall submit a sample and product information, including printed instructions for application.
3. If the barrier markers meet the criteria, a letter and unsigned certification agreement will be sent to the manufacturer. The product will be placed on the QPL upon receipt of the signed certification agreement.
4. Each barrier marker will be permanently identified on the marker with the manufacturer's name or logo and product brand name or unique identifier.
5. Destination samples will be taken as deemed necessary by the Materials Engineer to assure compliance with specifications.
6. Failure of the material in field applications is sufficient reason to reconsider acceptance of the material. Suspension of further use and/or removal from the QPL may occur if the Materials Engineer determines that the material is not in compliance with applicable specifications and requirements.