

Construction Concrete Barrier Marker

TYPE 1

Supplier	Brand
Astro Optics Corp. Schaumburg IL	<u>JD Series</u>
Vega Molded Products Gilberts IL	<u>Flex Barrier Marker</u> <u>JD Series</u> <u>Standard 3" Delineator</u>

TYPE 2

Supplier	Brand
Artuk Inc. Elgin IL	<u>FB-33 Series</u> <u>FB-34 Series</u>
Astro Optics Corp. Schaumburg IL	<u>FB-33 Series</u> <u>FB-34 Series</u> <u>FT Series</u>
Highway Safety Specialists Fort Wayne IN - Fort Wayne IN	<u>Concrete Barrier Reflector (#250-4)</u> <u>Concrete Barrier Reflector (#260-2)</u> <u>Easy View Marker (#EZ)</u>
Irwin Hodson Company Portland OR	<u>Barrier Traffic Reflector (BTR) 11"</u> <u>Barrier Traffic Reflector (BTR) 5"</u>
Pexco, LLC Tacoma WA	<u>PCBM Series</u>
Three D Traffic Works Inc. Burbank CA	<u>TD9300 Series</u>

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TYPE 2

Supplier

Brand

Trafco Industries Inc.
Eagle Lake TX

TI-series

Method of Documentation of Acceptance:

By brand and source. Type 2 barrier marker must indicate QPL approved retroreflective sheeting source and brand.

Method of Approval:

PROCEDURE TO BE FOLLOWED IN ACQUIRING APPROVAL OF MATERIALS TO BE ADDED TO THE QUALIFIED PRODUCTS LIST:

- 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, and transparent face, and be permanently sealed against the intrusion of dust, water, or air.

Type 1 reflector's 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 D4956, Type 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) 723 Reflective Sheeting.

- The manufacturer shall submit a sample and product information, including printed instructions for application.
- 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.
- Destination samples will be taken as deemed necessary by the Materials Engineer to assure compliance with specifications.
- 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.

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The manufacturer of privately labeled products must be disclosed.

No information contained in these lists is to be used for promotional purposes.