

AUTHORIZATION REQUIREMENTS AND ACCEPTANCE CRITERIA FOR AUDIBLE TRAFFIC STRIPE SYSTEMS

The following procedures are required to authorize audible traffic stripe suppliers for inclusion on the Authorized Material List (AML). This program is administered by the Office of Roadway Materials Testing, Chemical Testing Branch. Audible traffic stripe specification requirements are listed in Section 84-4 of the 2015 Standard Specifications.

1. For new materials the manufacturer will provide:

- A. Authorized Material List Submittal Form TL-9502, <<http://cefs.dot.ca.gov/jsp/forms.jsp>>
- B. Material/system data sheet with detailed performance information, properties and installation instructions. Data in this document will indicate that the system will meet the performance acceptance criteria.
- C. Certification that glass beads incorporated into the base line and post applied to the base line meet the requirements for glass beads in Section 84-2 of the 2015 Standard Specifications.
- D. Safety Data Sheet.
- E. List of projects where the system has successfully been in service for at a minimum of one year. Also provide contact name and phone number of the over sight agency.
- F. 13 pound sample of the product/base line and elements dropped onto the base line as appropriate.

2. Performance acceptance criteria:

- G. After installation, the base line with the post applied glass beads recommended by the manufacturer, the retroreflectivity of the stripes must be a minimum of 250 mcd m⁻² lx⁻¹ for white and 125 mcd m⁻² lx⁻¹ for yellow. Measurement will be in accordance with ASTM E 1710.
- H. Confirm that all glass beads used within the material and post applied meet the requirements in Section 84-2 of the 2015 Standard Specifications.
- I. The color of audible traffic stripe base line must comply with ASTM D6628, Daytime Chromaticity Coordinates.
- J. The base stripe thickness must be a minimum of 110 mils from the surface of the road. The raised audible bump must have a height of at least 375 mils above the pavement surface and length of at least 2.5 inches.

K. The audible bumps must be applied at a minimum distance of 30 inches and maximum distance of 36 inches from each other.

3. Send the submittal and sample to the Chemical Testing Branch.

Caltrans Transportation Laboratory
Attention: Rachael Chavez, Audible Traffic Stripe
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Sacramento, CA 95819

When the submittal package has been evaluated and reviewed, the Department will notify the manufacturer of the findings. When any discrepancies are resolved to the satisfaction of the Department the material will be placed on the AML.

The authorization of audible traffic stripe will expire in 5 years.

The Department reserves the right to sample, test and to remove the product from the AML at any time.

4. Reauthorization:

Manufacturer should submit its package with current information to the Chemical Testing Branch at least three (3) months prior to the listed expiration date.

Contact the Chemical Testing Branch with any questions about this program. Rachael Chavez at (916) 227-0388 or <rachael.chavez@dot.ca.gov>.