

Temporary Traffic Control Devices (TTCD) Tennessee Requirements

Temporary Traffic Control Devices consist of Surface and Ground mounted Delineators and Plastic Workzone Drums. Delineators are particularly beneficial at locations where the alignment might be confusing or unexpected, such as at lane-reduction transitions and curves. Delineators are effective guidance devices at night and during adverse weather. An important advantage of delineators in certain locations is that they remain visible when the roadway is wet or snow covered. Delineators are considered guidance devices rather than warning devices. The function of channelizing devices is to warn road users of conditions created by work activities in or near the roadway and to guide road users. Channelizing devices include cones, tubular markers, vertical panels, drums, barricades, and longitudinal channelizing devices.

The TTCD Work Plan involves both field and laboratory testing of Delineators and Drums. Tennessee Department of Transportation (TDOT) uses this data to populate their Qualified Products List (QPL). The following are TDOT's requirements for acceptance on the QPL.

Surface and Ground Mounted Delineators

Field Evaluation

Based on both Winter and Summer Impact Data at least 5 of the 8 post shall:

- **Final Degree List:** Remain intact and securely anchored and return to their original vertical orientation within an Angle of $\pm 10^\circ$
- **Sheeting Loss %:** In addition, each post meeting the **Final Degree List** requirement above shall have no more than 50% sheeting loss and show minimal signs of distress (cracking, loss of rigidity).
- The manufacturer shall certify that the materials to be supplied are formulated the same as when tested by NTPEP and will conform to the requirements of this specification.

Additional Criteria

Weathering: The delineator post shall be capable of withstanding 1,000 hours of UV exposure without significant color change or physical deterioration as might be exhibited by splitting, cracking, delaminating, etc.

Plastic Workzone Drums

Based on both Winter and Summer Impact Data

- No permanent deformation or damage to the drum, i.e., splits, breaks or cracks that impairs its function or mars its physical appearance, thereby rendering the drum unusable;
- No significant loss of effectiveness of the reflective sheeting;
- A non-hazardous separation of the drum from its removable base/ballast;
- Drums shall be re-stackable.

The manufacturer shall certify that the material to be supplied, to include the design of the drum and formulation of plastics used in the manufacture are the same as when tested by the NTPEP and will conform to the requirements of this specification.

The Department reserves the right to periodically sample and test flexible drums.