



Guide Specifications  
**LED Traffic Signal Modules**  
**Section 02925.51(b)**  
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**OREGON DEPARTMENT**  
**OF TRANSPORTATION**

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**LED TRAFFIC SIGNAL MODULES**

Standard Specification 02925.51(b) states:

*Light Emitting Diode (LED) Modules - Use only prequalified LED modules that are listed in the Traffic Signal Materials "Blue Sheets".*

Blue Sheets: <http://www.oregon.gov/ODOT/HWY/TRAFFIC-ROADWAY/docs/pdf/bluesheets.pdf>

A Nationally Recognized Testing Laboratory (NRTL) will test all LED modules for design qualification based on the current Institute of Transportation Engineers (ITE) specifications. The NRTL must be recognized by the United States Department of Labor Occupational Safety & Health Administration (OSHA).

See <http://www.osha.gov/dts/otpc/nrtl/index.html#nrtls> for OSHA recognized NRTLs.

In addition the NRTL must be recognized by ODOT in the list below:

- Intertek Testing Services NA, Inc. (ITSNA)
  - [http://www.intertek-etlsemko.com/portal/page/cust\\_portal/ITK\\_PGR/DOCUMENTS\\_PROD\\_PG/LED\\_Directory\\_Traffic\\_Signal\\_Modules\\_Certified\\_Products.pdf](http://www.intertek-etlsemko.com/portal/page/cust_portal/ITK_PGR/DOCUMENTS_PROD_PG/LED_Directory_Traffic_Signal_Modules_Certified_Products.pdf)

If the LED module is not listed by an ODOT recognized NRTL then the LED module will not be considered for Blue Sheet listing. If the LED module is listed by an ODOT recognized NRTL then the LED module will be considered for listing in the Blue Sheets with the following requirements:

- Vehicle signal LED modules must use clear lens
- Vehicle signal will be constructed with no more than 20 LEDs

If the ODOT recognized NRTL does not list or test a specific type of LED module then the LED module must be listed in the California Department of Transportation (Caltrans) APL list to be considered for listing in the Blue Sheets.

Caltrans APL: [http://www.dot.ca.gov/hq/esc/approved\\_products\\_list/pdf/APL.pdf](http://www.dot.ca.gov/hq/esc/approved_products_list/pdf/APL.pdf)