

# The New Zealand Roadmarkers Federation Conference 2009

19.-20. August 2009  
Rutherford Hotel  
Nelson

## News on European and US Specification for pavement marking

# **1.ASTM**

## **Committee E12 „Color and Appearance“**

- Revision of: ASTM E 1709  
Standard Test Method for Measurement of Retroreflective Signs Using a Portable Retroreflectometer at a 0.2° Observation Angle
- Reapproval of: ASTM E 1809  
Standard Test Method for Measurement of High-Visibility Retroreflective Clothing Marking Material Using a Portable Retroreflectometer
- Reapproval of: ASTM E 2302  
Standard Test Method for Measurement of the Luminance Coefficient Under Diffuse Illumination of Pavement Marking Materials Using a Portable Reflectometer
- Reapproval of: ASTM E 2177  
Standard Test Method for Measuring the Coefficient of Retroreflected Luminance of Pavement Markings in a Standard Condition of Wetness
- Work item: WK3833  
New Test Method for Determination of the Coefficient of Retroreflection of Pavement Markings Using a 30 meter Geometry Mobile Retroreflectometer

## **Standard Test Method for measuring the Coefficient of Retroreflected Luminance of Pavement marking Materials with ASTM-Prescribed 30 meter Geometry Using A Mobile Retroreflectorometer**

Describes a measuring system attached to a vehicle moving down the road at highway speeds.

Is still under the status “proposed standard”

## Negatives

1. First draft is based on one type of instrument. As there are several types already on the market, the test method should cover all of these.
2. In general mobile retroreflectometers should have the same requirements as the portable retroreflectometers

EN 1436 has the following general requirement:

„Vehicle mounted instruments should in principle comply with the same requirements as for portable instruments, and should be able to cope with the movements of the vehicle and with changing conditions of daylight. However, the operation at speed may cause additional difficulties of the measurement, which may lead to compromises with requirements or cause additional variation of measured values.“

## **2. CEN**

### **WG 2: „Horizontal Signs“**

Formal votes on

- 341 prEN 1790  
Road marking materials - Material specifications - Preformed road markings
- 342 prEN 1824  
Road marking materials - Road trials
- 343 prEN 1871  
Road marking materials – Material specifications – Paint, cold plastic and thermoplastic
- 344 prEN 12802  
Road marking materials – Laboratory methods for identification
- 345 prEN 13197  
Road marking materials - Wear simulators Turntable
- 346 prEN 13212  
Road marking materials – Requirements for factory production control
- 347 prEN 13459  
Road marking materials – Sampling from storage and testing
- 348 prEN 1423  
Road marking materials – Drop on materials – Glass beads, antiskid aggregates and mixtures of the two

- 349 decided to add a preliminary work item for the preparation of a new European standards:  
**Test methods for measuring road marking performance with vehicle mounted equipment**
- 350 decided to add a preliminary work item for the publication of a report:  
**Durability project** (provisional title)  
in order to publish a CEN/TR which will provide a better understanding of the durability requirements for Horizontal Road markings

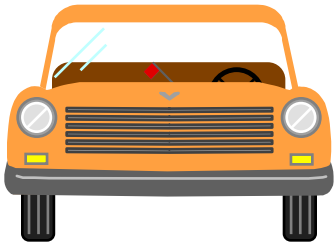


Visual performance at darkness

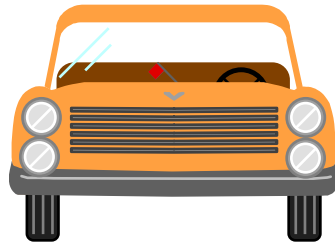
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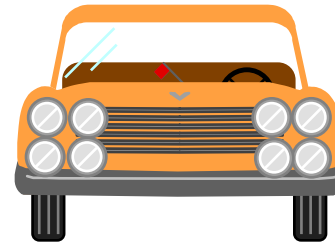
Compensation through more lamps?



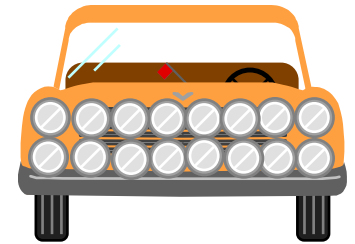
20 year old driver



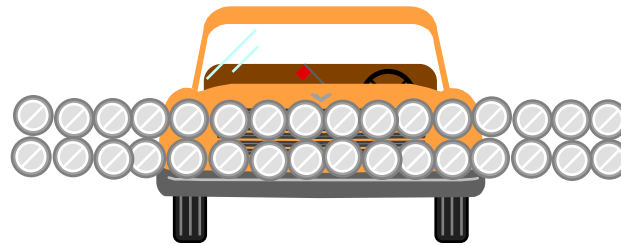
33 year old driver



46 year old driver



59 year old driver



72 year old driver

























