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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

World Forum for Harmonization of Vehicle Regulations

One-hundred-and-forty-fourth session  
Geneva, 11-14 March 2008  
Item 4.2.20. of the provisional agenda

**1958 AGREEMENT**

Consideration of draft amendments to existing Regulations

Proposal for Supplement 4 to the 01 series of amendments to the Regulation No. 69  
(Rear-marking plates for slow moving vehicles)

Submitted by the Working Party on Lighting and Light-Signalling (GRE) \*/

The text reproduced below was adopted by GRE at its fifty-eighth session. It is based on ECE/TRANS/WP.29/GRE/2006/39, as amended by Annex III to the report. It is submitted to WP.29 and AC.1 for consideration (ECE/TRANS/WP.29/GRE/58, para. 28).

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\*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

Annex 8,

Insert a new paragraph 4.1., to read:

"4.1. The adhesion of retro-reflective materials shall be determined after 24 hours curing time by utilizing a 90-degree peel on a tensile strength testing machine."

Paragraphs 4.1. to 4.3. (former), renumber as paragraphs 4.2. to 4.4.

Paragraph 7., amend to read:

"7. Resistance to cleaning

7.1. Manual cleaning

7.1.2. A test sample smeared with a mixture of detergent lubricating oil and graphite shall be easily cleaned without damage to the retro-reflective surface or fluorescent surface when wiped with a mild aliphatic solvent such as n-heptane, followed by washing with a neutral detergent.

7.2. Power washing

7.2.1. When subjected to a continuous spraying action for 60 seconds on the test component in its normal mounting conditions, a test sample shall show no damage to the retro-reflective surface or delamination from the substrate or separation from the sample mounting surface under the following set-up parameters:

- (a) Water/wash solution pressure  $8 \pm 0.2$  MPa;
- (b) Water/wash solution temperature  $60^{\circ} - 5^{\circ}\text{C}$ ;
- (c) Water/wash solution flow rate  $7 \pm 1$  l/min;
- (d) The tip of the cleaning wand to be positioned at distance of  $600 \pm 20$  mm away from the retro-reflective surface;
- (e) Cleaning wand to be held at no greater angle than 45 degrees from perpendicular to the retro-reflective surface;
- (f) 40 degree nozzle creating wide fan pattern."

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