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Item 10 of the provisional agenda

Regulation No. 70 (Rear-marking plates for heavy duty vehicles)

Proposal for Supplement 8 to the 01 Series of Regulation No. 70 (Rear marking plates for heavy and long Vehicles)

Submitted by the expert from the Working Party "Brussels 1952"*

The text reproduced below was prepared by the expert from the Working Party "Brussels 1952" (GTB) to amend the provisions on the "rain test". The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

I. Proposal

Annex 8, Paragraph.1.4., amend to read (including new footnote 1):

- "1.4. Effect on the coefficient of retro-reflection of the retro-reflective material:
 - 1.4.1. For this check, measurement shall be made only at an observation angle of 20' and an entrance angle of 5° by the method given in Annex 7.
 - 1.4.2. The coefficient of retro-reflection of the exposed specimen when dry shall be not less than 80 per cent of the value in Annex 7, table 1.
 - 1.4.3 The specimen shall then be subjected to simulated rainfall **as described in paragraph 7.7. of the EN 13422(2004)**¹ and its coefficient of retro-reflection under this condition shall be not less than 90 per cent of the value obtained when measured in dry condition, as explained in paragraph 1.4.2.above.

¹ For the test it is possible to use nozzles other than those described in paragraph 7.7. of EN 13422(2004) provided that the same performance (e.g. water distribution on the surface of the test sample) of the simulated rainfall will be achieved. "

II. Justification

1. The test procedure for the simulated rainfall in Regulation No. 70 is not adequately defined to ensure repeatable results.
 2. This proposed amendment aims to ensure repeatable results by adopting the simulated rainfall test requirements of paragraph 7.7. of EN 13422(2004). The use of other nozzles that are described in the Regulations is allowed provided that the rainfall effect meet the requirements of the EN 13422(2004).
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