

Proposal to amend Supplement 1 to Regulation No. 127 in its original version (Informal document GRSP-54-09-Rev.1)

I. Proposal

Annex 5, Paragraph 3.2.1., amend to read:

“3.2.1. The velocity of the headform impactor shall be measured at some point during the free flight before impact, in accordance with the method specified in ISO 3784:1976. ~~The accuracy of velocity measurement shall be ± 0.01 m/sec. ...~~”

II. Justification

Annex 5, Paragraph 3.2.1: ISO 3784:1976 on “Road Vehicles - Measurement of impact velocity in collision tests” requires in paragraph 2: “The accuracy of velocity measurement shall be ± 1 %.”.

The current specification in UNECE R127 of ± 0.01 m/sec in effect results in a required accuracy of about 1 per mille (0.01 m/sec for a test speed of about 10 m/sec), which cannot be achieved with today’s measurement equipment. It is therefore suggested to delete this sentence and to simply refer to the ISO standard.
