

Request for authorization to develop an amendment to global technical regulation No. 6 (Safety Glazing)

Submitted by the representative from India

The text reproduced below was submitted by the representative from India with the aim of adaptation of the global technical regulation (GTR) No. 6 to the technical progress, to enable the approval of the laminated-glass panes with improved mechanical properties. It is principally based on formal document ECE/TRANS/WP.29/GRSG/2018/7 which was submitted by expert from Finland and discussed in 114th Session of GRSG during 9-13 April 2018. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Executive Committee of the 1998 Agreement (AC.3) for consideration.

Request for authorization to develop an amendment to global technical regulation No. 6 (Safety Glazing)

A. Objective

1. The objective of this proposal is to develop, in the framework of the 1998 Agreement, an amendment to UN Global Technical Regulation (GTR) No. 6 on Safety Glazing to adapt the Regulation to technical progress by providing optional use of thinner laminated-glass panes meeting mechanical strength requirements in front, exterior, forward-facing glazing of upper deck of double decked buses instead of laminated windscreen.

B. Background

1. UN GTR No. 6 on Safety Glazing and door retention components was established in the Global Registry on 12 March 2008.

2. Amendment 1 to UN GTR No. 6 with adaptations to technical progress, notably concerning modifications of identification marks for windscreens, was established in the Global Registry on 9 March 2011.

3. In the 114th session of GRSG (9-13 April 2018), the expert from Finland introduced ECE/TRANS/WP.29/GRSG/2018/7, proposing optional use of thin and light weight laminated-glass panes for upper deck of double decked buses after complying mechanical strength tests, however exempting light transmission test. The proposal also included laminated-glass panes to have separate identification mark of “**XI/D**”. Based on discussions GRSG adopted the revised proposal. The secretariat was requested to submit revised ECE/TRANS/WP.29/GRSG/2018/7 to WP.29 and AC.1, for consideration and vote at their Nov 2018 sessions as draft Supplement 8 to the 01 series of amendments to UN Regulation No. 43 (Safety glazing).

4. The above mentioned amendment is based on the corresponding specifications for laminated glass panes as encompassed in UN Regulation No. 43. These prescriptions also exist in UN GTR No. 6. Presently both of these regulations UN Regulation No. 43 and UN GTR No. 6 does not allow laminated glass panes to be used for front of upper deck of double decked buses.

5. The supplemental provisions in UN Regulation No. 43 provide appropriate means to allow laminated glass panes to be used for front of upper deck of double decked buses Therefore it is considered appropriate to integrate these provisions in UN GTR No. 6 as well.

C. Subject of amendment

6. The amendment to UN GTR No. 6 shall include:

- (a) Amendment of Part A - Statement of technical rationale and justification;
- (b) Amendment of Part B - Text of the global technical regulation, in particular:
 - (i) Addition of identification mark of “**D**” in clause 4.1.2.3. to indicate it is mechanically enhanced laminated glass panes meeting 2260 g ball test and the headform test
 - (ii) Amendment in paragraph 5 table containing list of tests for addition of above tests for laminated glass panes and footnote thereof for clarity on applicable tests

- (iii) Modification of text in clauses 5.5.3.2. Head-form test and addition of requirements for 2260 g ball test in clause 5.5
- (c) Any further refinements or corrections as deemed appropriate.

D. Organization of process and timeline

8. The proposal will be drafted by the experts of from India. The amendments to the proposal will be developed in cooperation with all interested GRSG experts and agreed via e-mail communications. The meetings of interested experts are not planned, but will be organized, if necessary.
 9. The proposed action plan:
 - (a) October 2018: Introduction and consideration of the proposal (informal document) at the 115th GRSG session;
 - (b) April 2019: Consideration of the final proposal and its possible adoption at the 116th GRSG session;
 - (c) June 2019: Adoption of the proposal by AC.3, if no remaining issues had existed;
 - (d) November 2019: Adoption of the proposal by AC.3, if all remaining issues had been solved;
 10. The progress of works will be reported to AC.3 at its March 2019 and November 2019 sessions.
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