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World Forum for Harmonization of Vehicle Regulations (WP.29)
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PROPOSAL TO DEVELOP A GLOBAL TECHNICAL REGULATION
CONCERNING SAFETY GLAZING MATERIALS FOR MOTOR VEHICLES
AND MOTOR VEHICLE EQUIPMENT

Transmitted by the representative of Germany

Note: This document contains a proposal for a global technical regulation (gtr), concerning the Proposal to develop a Global Technical Regulation concerning Safety Glazing Materials for Motor Vehicles and Motor Vehicle Equipment to be developed under the 1998 Agreement concerning the establishing of Global Technical Regulations for wheeled vehicles, equipment and parts which can be fitted and/or be used on wheeled vehicles. The text is being submitted by Germany to WP.29 and AC.3 for consideration.

This document is a working document circulated for discussion and comments. The use of this document for other purposes is the entire responsibility of the user.

Documents are also available via the INTERNET:
<http://www.unece.org/trans/main/welcwp29.htm>

Objective of the proposal

In view of the 1998 Global Agreement, there is now an opportunity to develop an improved and harmonized safety glazing materials regulation. Moreover, the work on the global forum will provide an opportunity to consider in the new regulation international safety concerns as well as available technological developments.

The objective of this proposal is to develop a global technical regulation regarding safety glazing materials. The proposed regulation will be based on existing national regulations of Contracting Parties as well as international standards and regulations, and is intended to contain provisions regarding new materials such as glass-plastics and plastics glazings.

The regulation is regarded without reference to any type approval, since these would be regulated in the legislation of Contracting Parties to the global Agreement.

As motor vehicles are sold around the world and as they are equipped with the same glazings, it would be an improvement to have them tested under the same level.

Manufacturers would benefit from a reduction of the cost of testing. The consumer would benefit by having a unique level of safety.

Description of the proposed regulation

The global technical regulation will be developed based on best practices in the existing regulations, directives and industry standards listed below.

It was adopted that the structure of the global technical regulation is similar to the one of UNECE Regulation No. 43.

Existing regulations and directives

The following regulations were taken into account during development of the new global technical regulation regarding safety glazing materials:

Europe: UNECE Regulation No. 43 (Supplement 7) Uniform Provisions Concerning the Approval of Safety Glazing Materials and their Installation on Vehicles

EU Directive 92/22/EEC on safety glazing and glazing materials on motor vehicles and their trailers

EU Directive 89/173/EEC and 2000/1/EEC on certain components and characteristics of wheeled agricultural or forestry tractors

EU Directive 97/24/EEC and 2002 /51/EEC on certain components and characteristics of two- or three-wheel motor vehicles

USA: American National Standard for Safety Glazing Materials for
Glazing Motor Vehicle Operating on Land Highways

- Safety Code (ANSI Z26.1 – 1983)
- Safety Standard (ANSI Z26.1 – 1996)

Japan: Japanese Industrial Standard J IS R3211 (1998):

- Safety Glazing Materials for Road Vehicles

Japanese Industrial Standard J IS R3212 (1998)

- Test method of Safety Glazing Materials for Road Vehicles

International Voluntary Standards

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| ISO 3536 (1999) | Road vehicles – Safety glazing materials – Vocabulary |
| ISO 3537 (1999) | Road vehicles – Safety glazing materials – Mechanical tests |
| ISO 3538 (1997) | Road vehicles – Safety glazing materials – Test methods for optical properties |
| ISO 3917 (1999) | Road vehicles – Safety glazing materials – Test method for resistance to radiation, high temperature, humidity, fire and simulated weathering (1991) |
| DIN 52310 part 2 (1991) | Headform impact test on safety glazing materials for road vehicles with deceleration measurement. |
