

# **Proposal for amendment GTR No.6**

**9<sup>th</sup> Oct 2017**

**Seul-ki Lee, Senior Researcher**

**Korea Transportation Safety Authority (TS)**

**Korea Automobile Testing & Research Institute (KATRI)**

A decorative graphic in the bottom right corner of the slide, consisting of overlapping geometric shapes in shades of blue and orange, forming a triangular shape that points towards the top right.

## ➤ Status

- 1<sup>st</sup> PSG IWG(May 2015) : ToR is confirmed ☞ To discuss amendment of GTR6 for clarification of test method for toughened glass.
- 2<sup>nd</sup> PSG IWG(Sep 2015) : Korea proposed CPA limitation [00]mm in width.
- 3<sup>rd</sup> PSG IWG(Feb 2016) : OICA/CLEPA proposed CPA limitation 25mm in width and amendment of scope & impact point clarification
- 4<sup>th</sup> PSG IWG(Apr 2016) : OICA/CLEPA proposed introduction of definition of overhead glazing
- 5<sup>th</sup> PSG IWG(Jun 2016) : NHTSA Questions presentation
- WEBEX(Oct 2016) : Korea answered on NHTSA Questions
- 6<sup>th</sup> PSG IWG(Oct 2016) : NHTSA proposed necessity of additional research. Mandate postponed to Jun 2018. First step of GTR6 amendment on scope & impact point is approved in GRSG
- 7<sup>th</sup> PSG IWG(Apr 2017) : Delayed NHTSA's presentation of research plan

## ➤ Comments

- Unless NHTSA's research would finished until June in next year, Minimum amendment such as **introduction of test item of sunroof**[or overhead glazing] below is required within the mandate.
  1. Light transmittance test should be **excluded**,
  2. Fragmentation test should be performed in accordance with **existing test procedure**.
  3. 227g ball drop test should be performed in accordance with **existing test procedure**.
    - when the rigid CPA width is more than 25 mm\* in design glass outline, the test pieces should include ceramic printing area. \* [PSG-04-10]
- After the NHTSA's research is finalized, then PSG IWG could discuss the entire test for sunroof system or printing material, etc. If necessary, through Webex or email, ongoing research result or other countries' accidents updates could be shared by IWG members. It is also needed to consider whether to extend mandate additionally for NHTSA research result or not.

## ➤ GTR 6 amendment proposal

	Current	(Amendment proposal)
3. Definitions	-	3.23 [Overhead glazing] means those glass panes fitted in a vehicle, located completely above a horizontal plane passing through the O-point of the driver and being part of the design glass outline.
5. Performance Requirements	-	Table 1 – Summary of performance requirements (add column) *next page
	5.5. Requirements applicable to panes	5.5. Requirements applicable to panes and overhead glazing
	5.5.1. Requirements applicable only to uniformly toughened glass panes.	5.5.1. Requirements applicable to uniformly toughened glass panes and overhead glazing.
	5.5.2. Requirements applicable only to laminated-glass and glass-plastic panes.	5.5.2. Requirements applicable to laminated-glass panes, glass-plastic panes, laminated-glass overhead glazing and glass-plastic overhead glazing.

\* Based on the OICA/CLEPA and Korea proposal [PSG-02-02, PSG-04-09, PSG-04-10]

## ➤ GTR 6 amendment proposal(continued)

	Overhead Glazing				
	Uniformly toughened glass		Laminated glass		Glass plastics
<b>Marking</b>	VII	VII/P	VIII	VIII/P	IX
<b>Light transmittance</b>					
<b>Resistance to abrasion</b>					
<b>Resistance to temperature changes</b>					
<b>Resistance to fire</b>		5.2.2.		5.2.2.	5.2.2.
<b>Resistance to chemicals</b>		5.2.3.		5.2.3	5.2.3
<b>Resistance to radiation</b>		5.3.1.	5.3.1.	5.3.1.	5.3.1.
<b>Resistance to high temperature</b>		5.3.2.	5.3.2.	5.3.2.	5.3.2.
<b>Resistance to humidity</b>		5.3.3.	5.3.3	5.3.3.	5.3.3.
<b>Optical distortion</b>					
<b>Image separation</b>					
<b>Fragmentation</b>	5.5.1.1.	5.5.1.1.			
<b>Head-form</b>					
<b>2,260 g Ball</b>					
<b>227 g Ball</b>	5.5.1.2	5.5.1.2	5.5.2.1	5.5.2.1	5.5.2.1

## ➤ GTR 6 amendment proposal(continued)

	Current	(Amendment proposal)
6. Test condition and Procedure	6.3.3.2. For uniformly toughened glass panes, the drop height shall be 2.0 m mm.	6.3.3.2. For uniformly toughened glass panes <b>and overhead glazing</b> , the drop height shall be 2.0 m.
	6.3.3.3. For laminated-glass and glass-plastic panes, the drop height shall be 9 m mm.	6.3.3.3. For laminated-glass panes, glass-plastic panes, <b>laminated-glass overhead glazing and glass-plastic overhead glazing</b> , the drop height shall be 9 m.
	6.3.4 Test pieces ...	6.3.4 Test pieces ... <b>6.3.4.4 In case of overhead glazing, if the opaque obscuration band is more than 25mm inside the edge of the design glass outline, the test pieces should specially made with opaque obscuration on the complete surface area.</b>

Thank you!