UNITED NATIONS **E**

Economic and Social Council

Distr.
GENERAL

ECE/TRANS/WP.29/2008/84
25 July 2008

Original: ENGLISH

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

One-hundred-and-forty-sixth session
Geneva, 11-14 November 2008
Item 4.2.12 of the provisional agenda

1958 AGREEMENT

Consideration of draft amendments to existing Regulations

Proposal for Supplement 32 to the 03 series of amendments to Regulation No. 37
(Filament lamps of power-driven vehicles and their trailers)

Submitted by the Working Party on Lighting and Light-Signalling (GRE) */

The text reproduced below was adopted by GRE at its fifty-ninth session. It is based on ECE/TRANS/WP.29/GRE/2008/14, not amended and on ECE/TRANS/WP.29/GRE/2008/19 as amended by para. 5 of the report (ECE/TRANS/WP.29/GRE/59). It is submitted to WP.29 and AC.1 for consideration.

*/ In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance performance of vehicles. The present document is submitted in conformity with that mandate.

Annex 1,

The list of categories of filament lamps, grouped, and their sheet numbers, amend to read:

"Group 2:
Only for use in signalling lamps, cornering lamps, reversing lamps and rear registration plate lamps:

Category	Sheet number(s)
C5W	C5W/1
...	
P27/7W	P27/7W/1 to 3
PC16W	PC16W/1 to 3
PCR16W	PC16W/1 to 3
PCY16W	PC16W/1 to 3
PR19W	P19W/1 to 3

…"

The list of sheets for filament lamps and their sequence, amend to read:

" Sheet number(s)
…
P27/7W/1 to 3
PC16W/1 to 3
PR21W/1

…"

Sheet H4/4, the table, amend to read:

"…….

Reference */		Dimension **/		Tolerance		
				Filaments lamps of normal production		Standard filament lamp
12 V	24 V	12 V	24 V	12 V	24 V	12 V
……						
b1/33		b1/29.5 mv	b1/30.0 mv	± 0.30	± 0.35	± 0.15
…….						
b2/33		b2/29.5 mv	b2/30.0 mv	± 0.30	± 0.35	± 0.15
…….						
c/33		c/29.5 mv	c/30.0 mv	± 0.35		± 0.15
…….						
h/33		h/29.5 mv	h/30.0 mv	± 0.35		± 0.20

……."

Sheet H14/3, the table, the row "γ3", the column "Standard filament lamps", amend to read:

"…….

γ3	43°	0/-5°	0/-5°

……."

Sheet HS1/4, the table, the row Reference "b2/33", the column Dimensions at 6V and 12V, amend to read:

"……..

b2/33	b2/29.5 mv	± 0.35	± 0.15

……."

Sheet HS5/3, the table, amend to read:

"…..

Cap P23t in accordance with IEC Publication 60061 (sheet 7004-138-2)

……"

Sheet HS6/4, the table, amend to read:

"……

Cap: PX26.4t in accordance with IEC Publication 60061 (sheet 7004-128-3)

……."

Sheet H6W/1, the table, amend to read:

"……

β	82.5°	90°	97.5°	90° ± 5°

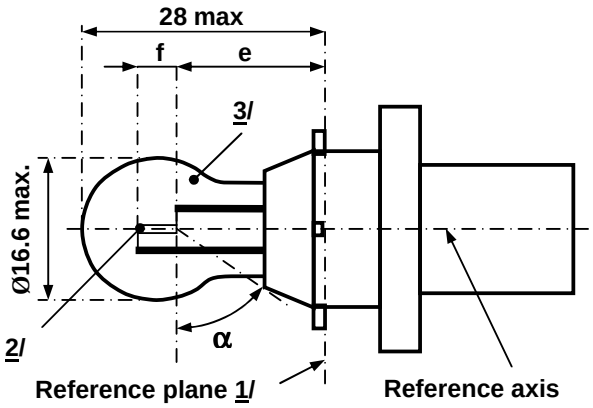
……."

Insert new sheets PC16W/1 to 3, between sheet P27/7W/3 and sheet PR21W/1, to read:

"

CATEGORIES PC16W, PCY16W AND PCR16W **Sheet PC16W/1**

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp



1/ The reference plane is defined by the meeting points of the cap-holder fit.
2/ No actual filament diameter restrictions apply but the objective is d max. = 1.1 mm.
3/ The light emitted from normal production lamps shall be white for category PC16W; amber for category PCY16W; red for category PCR16W. (see also note 7/).

CATEGORIES PC16W, PCY16W AND PCR16W **Sheet PC16W/2**

Dimensions in mm			Filament lamps of normal production			Standard filament lamp
			min.	nom.	max.	7/
e	4/ 5/			18.5		18.5
f	4/ 5/			4.0		4.0 ± 0.2
α	6/		54°			54° min.
PC16W Cap PU20d-1 PCY16W Cap PU20d-2 PCR16W Cap PU20d-7			in accordance with IEC Publication 60061 (sheet 7004-[…]-1)			
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS						
Rated values	Volts		12			12
	Watts		16			16
Test voltage	Volts		13.5			13.5
Objective values	Watts		17 max.			17 max.
	Luminous flux	PC16W	300 ± 15 %			
		PCY16W	180 ± 20 %			
		PCR16W	70 ± 20 %			
Reference luminous flux at approximately			13.5 V			White: 300 lm Amber: 180 lm Red: 70 lm

4/ The filament position is checked by means of a "Box-System"; sheet PC16W/3.

5/ The ends of the filament are defined as the points where, when the viewing direction is perpendicular to the plane through the filament lead-in wires as showed in the drawing on sheet PC16W/1, the projection of the outside of the end turns crosses the filament axis.

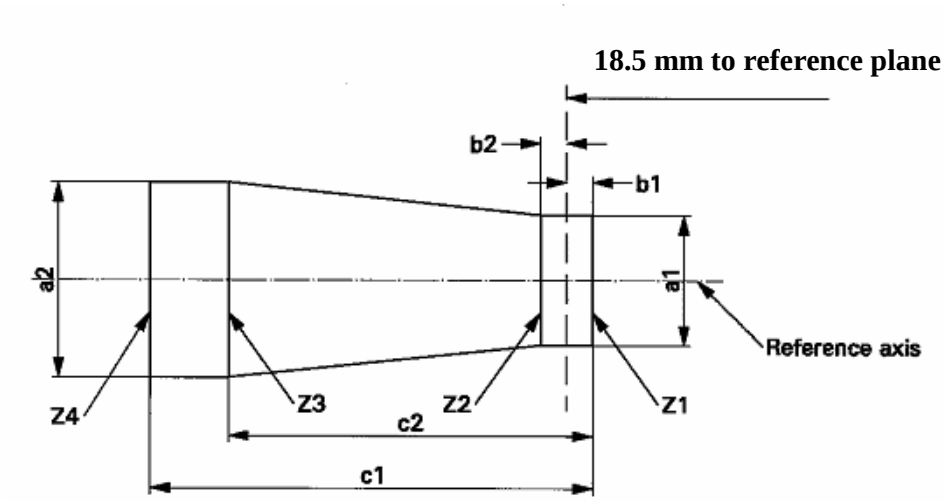
6/ No part of the cap beyond the reference plane shall interfere with angle α. The bulb shall be optically distortion free within the angle 2α + 180°.

7/ The light emitted from standard filament lamps shall be white for category PC16W; white or amber for category PCY16W; white or red for category PCR16W.

CATEGORIES PC16W, PCY16W AND PCR16W **Sheet PC16W/3**

Screen projection requirements

This test is used to determine, by checking whether the filament is correctly positioned relative to the reference axis and reference plane, whether a filament lamp complies with the requirements.



	a1	a2	b1, b2	c1	c2
Filament lamps of normal production	2.9	3.9	0.5	5.2	3.8
Standard filament lamps	1.5	1.7	0.25	4.7	3.8

The filament position is checked in two mutually perpendicular planes, one of them being the plane through the lead-in wires.
The ends of the filament as defined on sheet PC16W/2, note 5/, shall lie between Z1 and Z2 and between the lines Z3 and Z4.
The filament shall lie entirely within the limits shown."

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