



**Economic and Social
Council**

Distr.
RESTRICTED

TRANS/WP.29/GRE/2003/9
27 January 2003

ENGLISH
Original: ENGLISH
ENGLISH AND FRENCH
ONLY

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Lighting and Light-Signalling (GRE)
(Fiftieth session, 7-11 April 2003, agenda item 2.2.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 37

(Filament lamps)

Transmitted by the expert from the Working Party "Brussels 1952" (GTB)

Note: The text reproduced below was prepared by the expert from GTB in order to insert into the Regulation provisions for a new double filament lamp of category HS5 for motorcycles. The suggested amendments to the Regulation are marked in **bold** characters. The text is based upon :

- The text of Revision 3;
- Including (draft) Supplements 21 and 22;
- Including draft Corrigendum 1 to Revision 3;
- Draft proposals to introduce red filament light source (TRANS/WP.29/GRE/2002/36);
- Draft proposals for editorial amendments (TRANS/WP.29/GRE/2002/31);
- Informal document No. 2 distributed during the forty-ninth session of GRE.

Note: This document is distributed to the Experts on Lighting and Light-Signalling only.

A. PROPOSAL

Text of the Regulation,

Annex 1,

List of categories of filament lamps, amend to read:

“ ...

Category	Sheet number(s)
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...

HS2	HS2/1..3
HS5	HS5/1..4
R2	R2/1..3

...”

List of sheets for filament lamps, amend to read:

“ ...

Sheet number(s)

...

HS2/1..3
HS5/1..4
P19W/1..3

...”

New sheets HS5, insert in between sheet HS2/3 and sheet P19W/1 as indicated in the List of sheets above, to read:

(see next pages)

* * *

B. JUSTIFICATION

The proposed draft amendments concern the addition of a new double filament lamp for motorcycles. The proposed introduction of a new harmonized symmetrical beam pattern was the immediate cause to this development. The proposal also corrects a few editorial errors.

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

FILAMENT LAMP FOR MOTORCYCLES

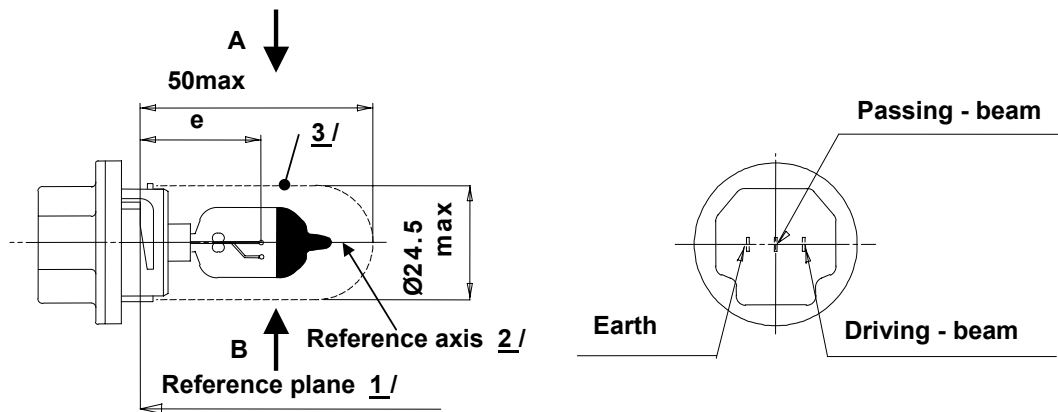


Figure 1 Main drawing

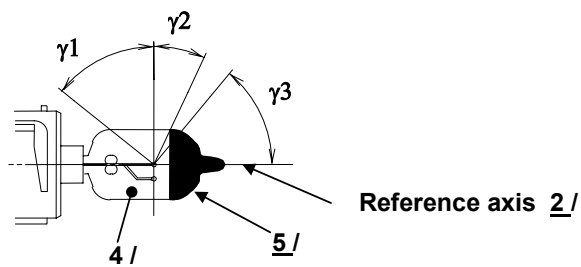
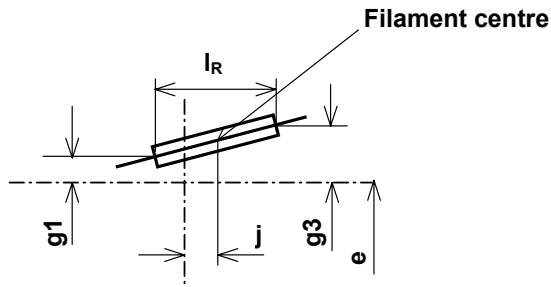


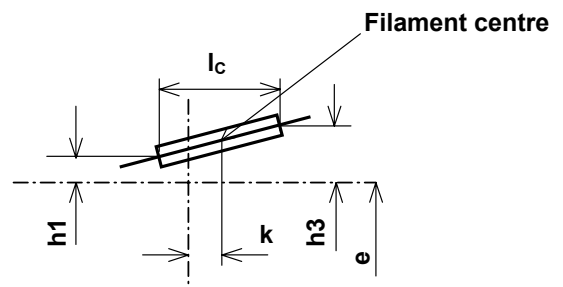
Figure 2 Distortion free area 4/ and black top 5/

- 1/ The reference plane is defined by the three ramp inside surface.
- 2/ The reference axis is perpendicular to the reference plane and passing through the centre of the 23 mm cap diameter.
- 3/ Glass bulb and supports shall not exceed the envelope as indicated in figure 1. The envelope is concentric to the reference axis.
- 4/ Glass bulb shall be optically distortion free within the angles γ_1 and γ_2 . This requirement applies to the whole bulb circumference within the angles γ_1 and γ_2 .
- 5/ The obscuration shall extend at least to angle γ_3 and shall extend at least to the cylindrical part of the bulb on the whole top circumference.

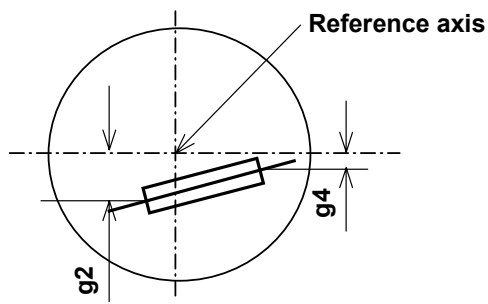
View B of driving-beam filament



View A of passing-beam filament



Top view of driving-beam filament



Top view of passing-beam filament

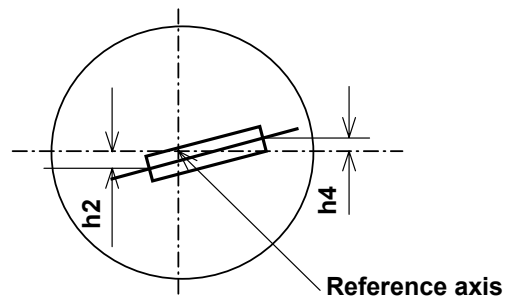


Figure 3
Filament position and dimensions

CATEGORY HS5

Sheet HS5/3

Dimensions in mm		Filament lamps of normal production		Standard filament lamp		
		12V		12V		
e	26	<u>6/</u>		± 0.15		
l _c	<u>7/</u> 4.6			± 0.3		
k	0			± 0.2		
h1, h3	0			± 0.15		
h2, h4	0			± 0.20		
l _R	<u>7/</u> 4.6			± 0.3		
j	0			± 0.2		
g1, g3	0			± 0.30		
g2, g4	2.5			± 0.40		
γ ₁	50° min.			-		-
γ ₂	23° min.	-		-		
γ ₃	50° min.	-		-		
Cap P23t in accordance with IEC Publication 60061 (sheet 7004-....-1)						
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS						
Rated values	Voltage	V	12		12	
	Wattage	W	35	30	35	30
Test voltage		V	13.2		13.2	
Objective Values	Wattage	W	40 max.	37 max.	40 max.	37 max.
	Luminous flux	lm	620	515		
		±%	15	15		
Reference luminous at approximately 12V				460 lm	380 lm	

6/ To be checked by means of a "box-system". Sheet HS5/4.

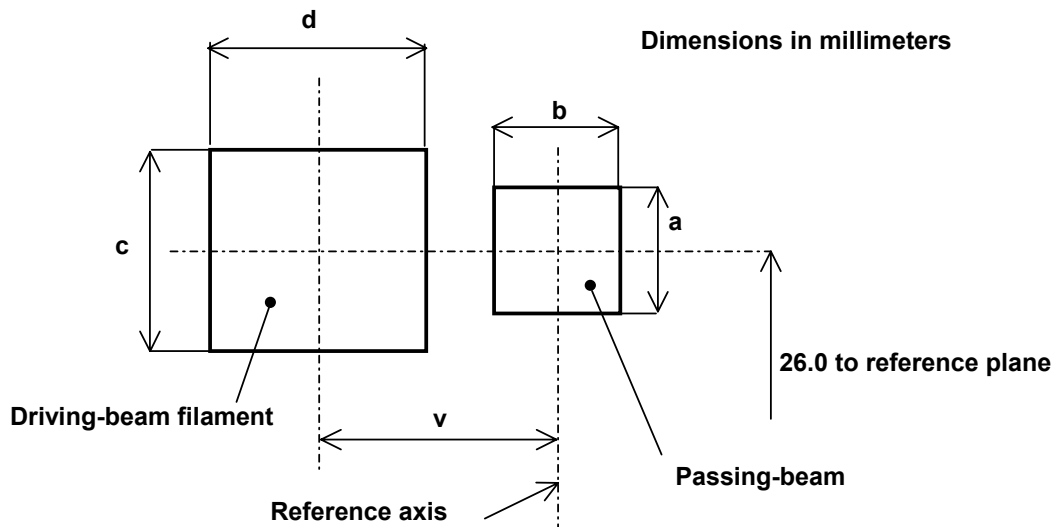
7/ The positions of the first and the last turn of the filament are defined by the intersections of the outside of the first and the outside of the last light-emitting turn, respectively, with the plane parallel to and 26 mm distant from the reference plane.

Screen projection requirement

This test is used to determine whether a filament lamp complies with the requirements by checking whether:

- (a) the passing-beam filament is correctly positioned relative to the reference axis and the reference plane; and whether
- (b) the driving-beam filament is correctly positioned relative to the passing-beam filament.

Side elevation

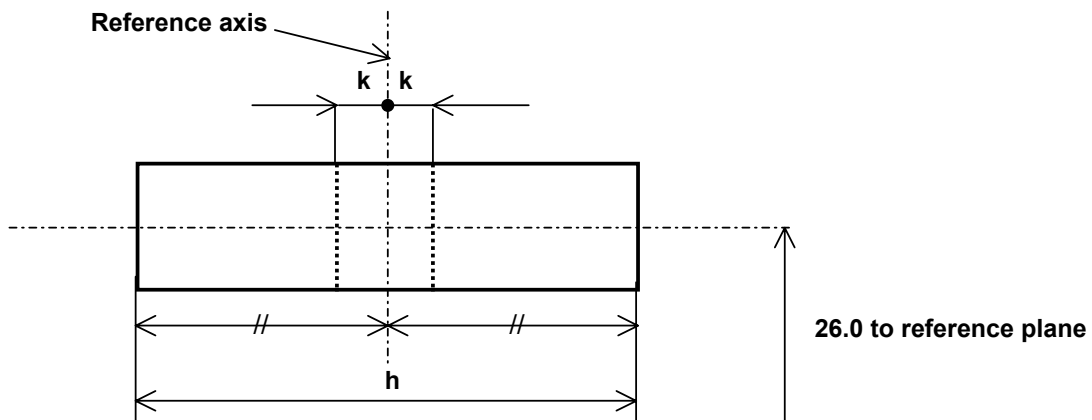


Reference	a	b	c	d	v
Dimensions	$d1+0.6$	$d1+0.8$	$d2+1.2$	$d2+1.6$	2.5

d1 : Diameter of the passing-beam filament

d2 : Diameter of the driving-beam filament

Front elevation



Reference	h	k
Dimensions	6.0	0.5

The filaments shall lie entirely within the limits shown.

The centre of the filament shall lie within the limits of dimension k.