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Reference: C N.322.1998.TREATIES-93 (Depositary Notification)

AGREEMENT CONCERNING THE ADOPTION OF UNIFORM TECHNICAL  
PRESCRIPT. ONS FOR WHEELED VEHICLES, EQUIPMENT AND PARTS WHICH CAN BE  
FITTED AND/OR BE USED ON WHEELED VEHICLES AND THE CONDITIONS FOR  
RECIPROCAL RECOGNITION OF APPROVALS GRANTED ON THE BASIS OF THESE  
PRESCRIPTIONS

GENEVA, 20 MARCH 1958

REGULATION NO. 37. UNIFORM PROVISIONS CONCERNING THE  
APPROVAL OF FILAMENT LAMPS FOR USE IN APPROVED LAMP UNITS  
OF POWER-DRIVEN VEHICLES AND OF THEIR TRAILERS

1 FEBRUARY 1978

PROPOSAL OF AMENDMENTS TO REGULATION NO. 37

The Secretary-General of the United Nations, acting in his capacity as depositary, communicates the following:

On 7 July 1998, the Secretary-General received from the Administrative Committee of the above Agreement, pursuant to article 12 (1) of the Agreement, amendments proposed to the above Regulation No.37 annexed to the Agreement.

A copy, in the English and French languages, of the document containing the text of the ....proposed amendments is transmitted herewith (supplement 16 to the 03 series: doc. TRANS/WP.29/622).

The Secretary-General wishes to draw attention to article 12 (2) and (3) of the Agreement which read as follows:

“ 2. An amendment to a Regulation will be considered to be adopted unless, within a period of six months from its notification by the Secretary-General, more than one-third of the Contracting Parties applying the Regulation at the time of notification have informed the Secretary-General of their disagreement with the amendment. If, after this period, the Secretary-General has not received declarations of disagreement of more than one-third of the Contracting Parties applying the Regulation, the Secretary-General shall as soon as possible declare the amendment as adopted and binding upon those Contracting Parties applying the Regulation who did not declare themselves opposed to it. When a Regulation is amended and at least one-fifth of the Contracting Parties applying the unamended Regulation subsequently declare that they wish to continue to apply the unamended Regulation, the unamended Regulation will be regarded as an alternative to the amended Regulation and will be incorporated formally as such into the Regulation with effect from the date of adoption of the amendment or its entry into force. In this case the obligations of the Contracting Parties applying the Regulation shall be the same as set out in paragraph 1.

Attention: Treaty Services of Ministries of Foreign Affairs and of international organizations concerned.

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3. Should a new Contracting Party accede to this Agreement between the time of the notification of the amendment to a Regulation by the Secretary-General and its entry into force, the Regulation in question shall not enter into force for that Contracting Party until two months after it has formally accepted the amendment or two months after the lapse of a period of six months since the communication to that Party by the Secretary-General of the proposed amendment."

17 November 1998

A handwritten signature in black ink, appearing to be 'M/W', located below the date.

To the file, BT/AR.



**Economic and Social  
Council**

Distr.  
GENERAL

TRANS/WP.29/622  
2 June 1998

ENGLISH  
Original: ENGLISH  
and FRENCH

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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on the Construction of Vehicles

**DRAFT SUPPLEMENT 16 TO THE 03 SERIES OF AMENDMENTS  
TO REGULATION No. 37**

(Filament lamps)

Note: The text reproduced below was adopted by the Administrative Committee (AC.1) of the amended 1958 Agreement at its eighth session, following the recommendation by the Working Party at its one-hundred-and-fourteenth session. It is based on document TRANS/WP.29/1998/19, as amended (TRANS/WP.29/609, paras. 68 and 119).

List of contents, annexes, annex 1,

Add at the end of the list new sheets, to read:

".....  
Sheets H11"

Annex 1, sheet R2/1, replace in the table the IEC sheet number by  
"sheet 7004-35-5".

Annex 1, sheet P21/4W/1, replace in the table the IEC sheet number by  
"sheet 7004-11C-2".

Annex 1, sheet H7/2, replace in the table the IEC sheet number by  
"sheet 7004-5-3".

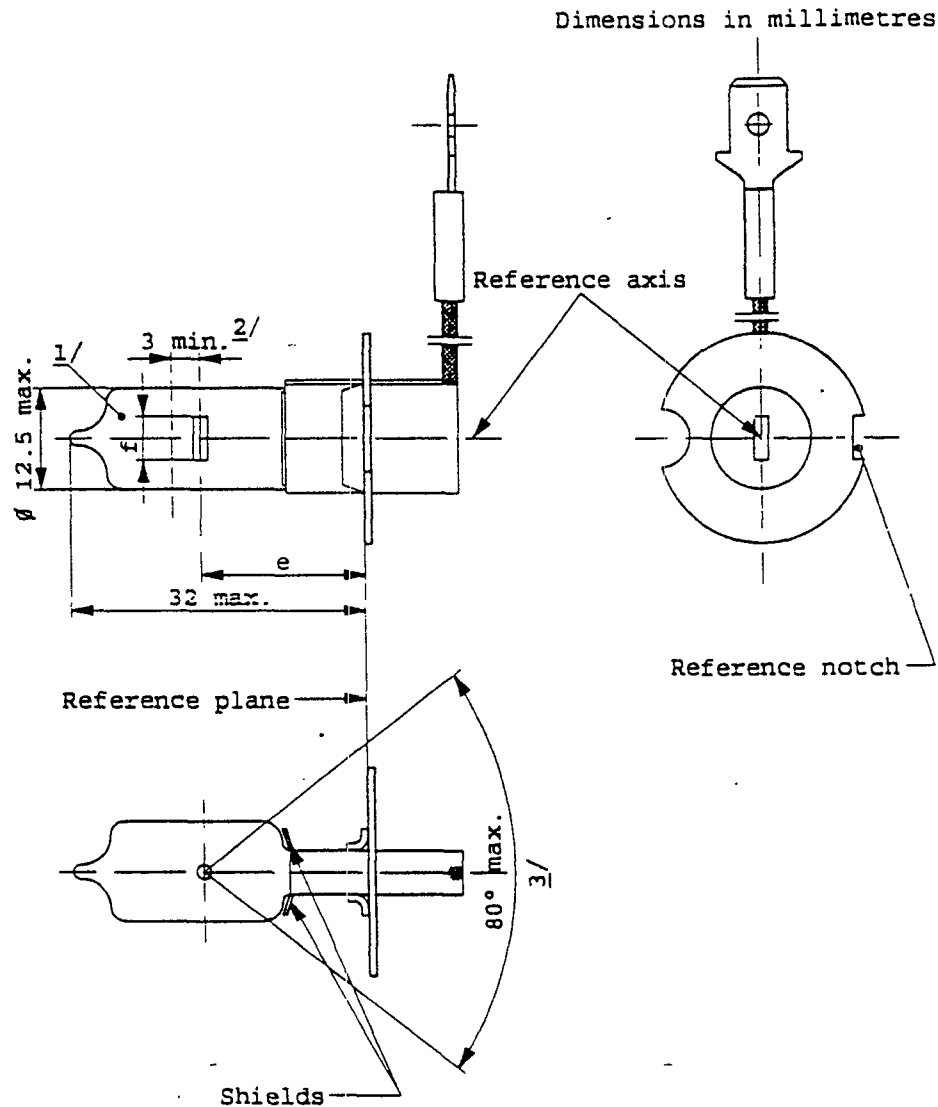
Annex 1, sheet H27W/2, replace in the table the IEC sheet number by  
"sheet 7004-107-2".

Annex 1, sheet H8/2, replace in the table the IEC cap designation by  
"PGJ 19-1".

Annex 1, sheet H4/1, replace in the table  
"+ 0.45                    " + 0.35  
- 0.25" by                - 0.25".

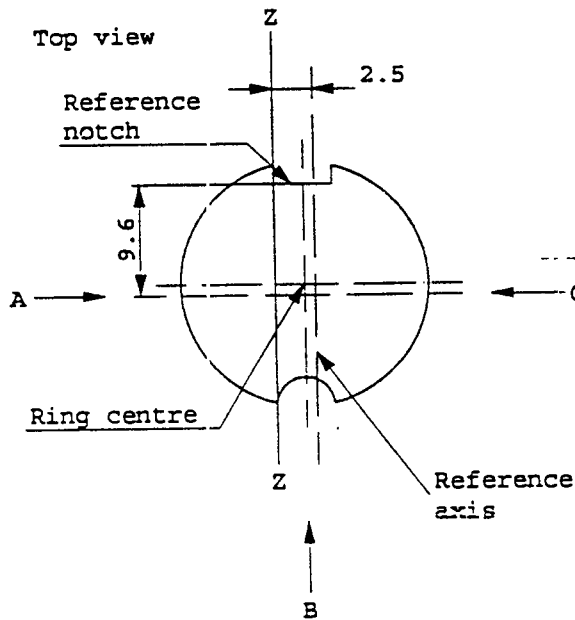
Annex 1, replace the existing sheets H3/1 to H3/6 by new sheets H3/1 to H3/4  
and add at the end new Sheets H11/1 to H11/4, to read:

The drawings are intended only to illustrate the essential dimensions of the filament lamp

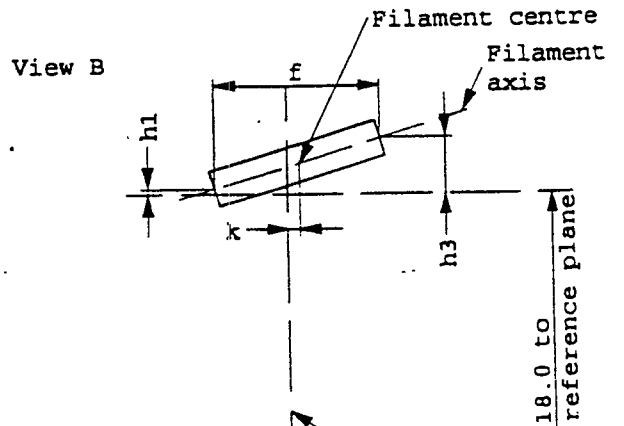


- 1/ Bulb colourless or selective-yellow.
- 2/ Minimum length above the height of the light emitting centre ("e") over which the bulb shall be cylindrical.
- 3/ The distortion of the base-end portion of the bulb shall not be visible from any direction outside the obscuration angle of 80° max. The shields shall produce no inconvenient reflections. The angle between the reference axis and the plane of each shield, measured on the bulb side, shall not exceed 90°.

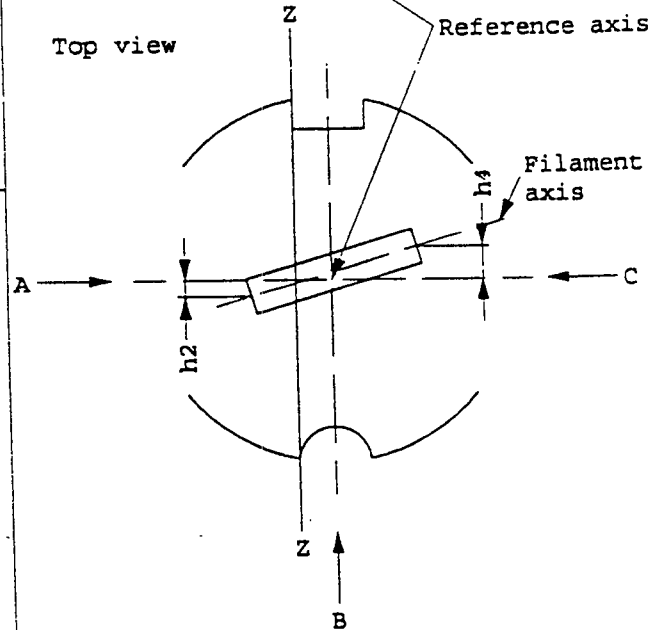
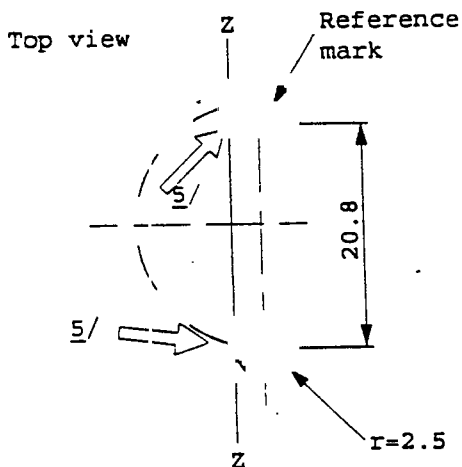
Definition: Ring centre and reference axis <sup>4/</sup>



Filament position and dimensions



Definition of Z - Z line



View A: measuring h2  
View B: measuring k, h1, h3, f  
View C: measuring h4

<sup>4/</sup> The permissible deviation of the ring centre from the reference axis is 0.5 mm in the direction perpendicular to the Z-Z line and 0.05 mm in the direction parallel to the Z-Z line.

<sup>5/</sup> The cap shall be pressed in these directions.

## CATEGORY H3

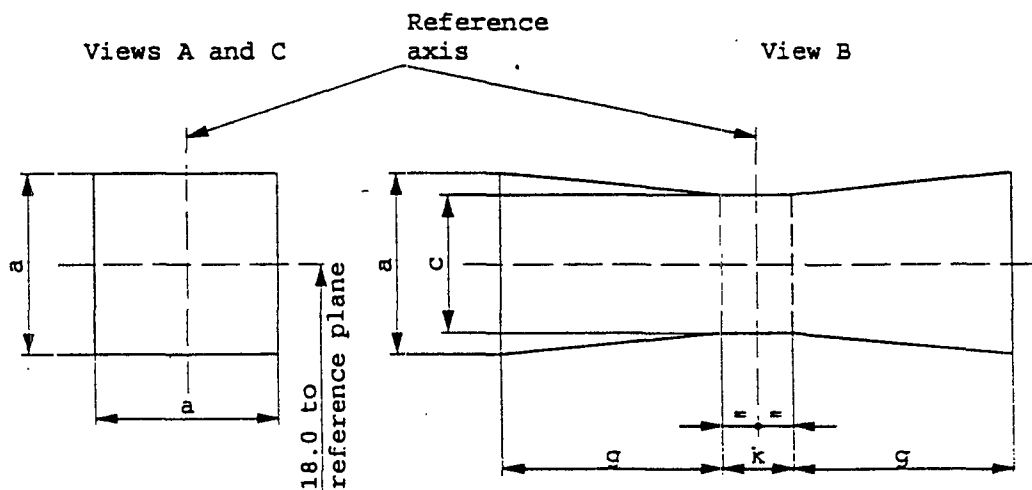
Sheet H3/3

Dimensions in mm	Filament lamps of normal production			Standard filament lamp	
	6 V	12 V	24 V	12 V	
e	18.0			18.0	
f	8/ 3.0 min.	4.0 min.		5.0 ± 0.50	
k	0			0 ± 0.20	
h1, h3	0			0 ± 0.15 7/	
h2, h4	0			0 ± 0.25 7/	
Cap PK 22s in accordance with IEC Publication 61 (sheet 7004-47-4)					
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS					
Rated values	Volts	6	12	24	12
	Watts	55		70	55
Test voltage	Volts	6.3	13.2	28.0	13.2
Objective values	Watts	63 max.	68 max.	84 max.	68 max.
	Luminous flux lm	1050	1450	1750	
	±%	15			
Reference luminous flux: 1100 lm at approx. 12V					

- 6/ To be checked by means of a "box-system"; sheet H3/4.
- 7/ For standard filament lamps the points to be measured are those where the projection of the outside of the end turns crosses the filament axis.
- 8/ The positions of the first and the last turn of the filament are defined by the intersections of the outside of the first and of the last light emitting turn, respectively, with the plane parallel to and 18 mm distant from the reference plane (additional instructions for coiled-coil filament are under consideration.

Screen projection requirements

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



	a	c	k	g
6 V	1.8 d	1.6 d	1.0	2.0
12 V				2.8
24 V				2.9

d = diameter of filament

The filament shall lie entirely within the limits shown.

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

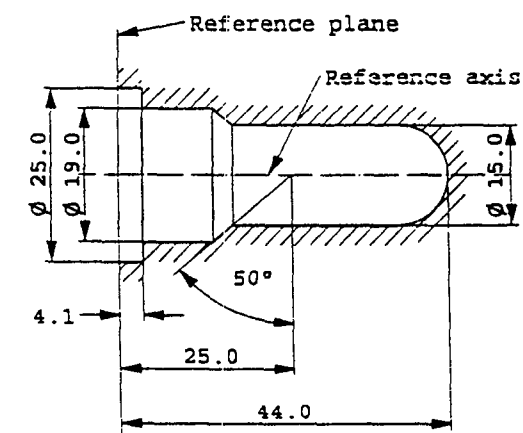
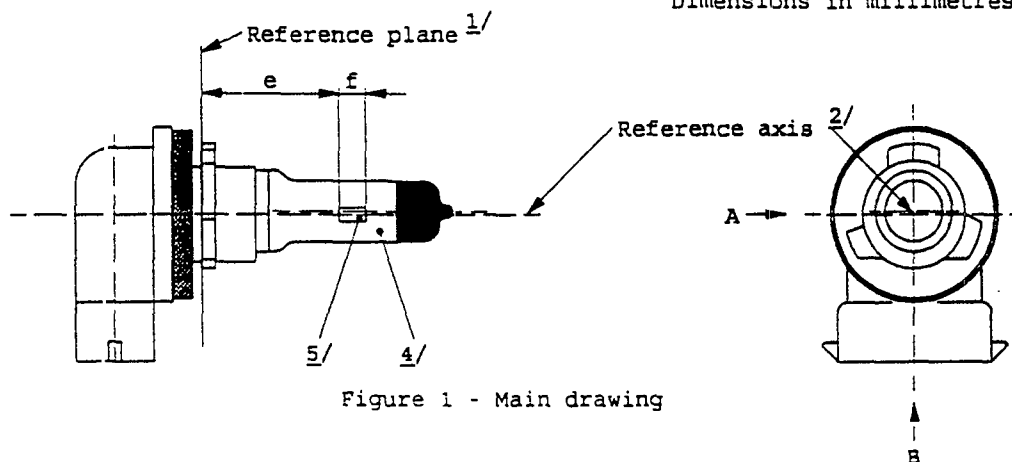


CATEGORY H11

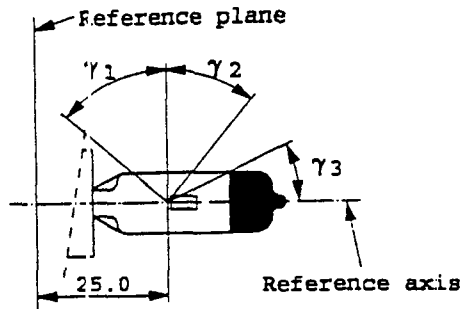
Sheet H11/1

The drawings are intended only to illustrate the essential dimensions of the filament lamp.

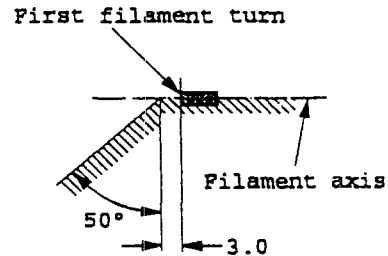
Dimensions in millimetres



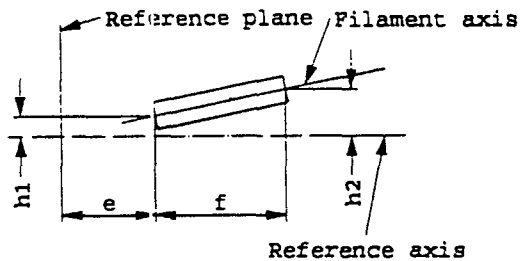
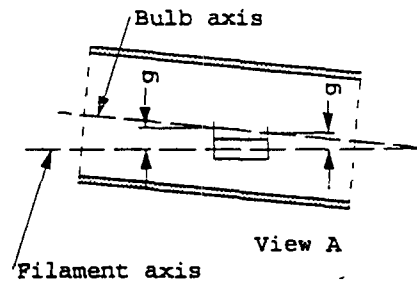
- 1/ The reference plane is the plane formed by the underside of the beveled lead-in flange of the cap.
- 2/ The reference axis is perpendicular to the reference plane and passing through the centre of the 19 mm cap diameter.
- 3/ Glass bulb and supports shall not exceed the envelope as indicated in figure 2. The envelope is concentric to the reference axis.
- 4/ The bulb shall be colourless or yellow.
- 5/ Notes concerning the filament diameter.
  - No actual diameter restrictions apply but the objective for future developments is to have  $d_{max.} = 1.4 \text{ mm}$
  - For the same manufacturer, the design diameter of standard (étalon) filament lamp and filament lamp of normal production shall be the same.



View B

Figure 3 - Distortion free area 6/  
and black top 7/

View A

Figure 4 - Metal free zone 8/Figure 5 - Offset of filament axis 9/  
(for standard filament lamps only)Figure 6 - Bulb eccentricity 10/

- 6/ Glass bulb shall be optically distortion free within the angles  $\gamma_1$  and  $\gamma_2$ . This requirement applies to the whole bulb circumference within the angles  $\gamma_1$  and  $\gamma_2$
- 7/ The obscuration shall extend at least to angle  $\gamma_3$  and shall extend at least to the cylindrical part of the bulb on the whole bulb top circumference
- 8/ The internal design of the lamp shall be such that stray light images and reflections are only located above the filament itself seen from the horizontal direction. (View A as indicated in figure 1, sheet H11/1).  
No metal parts other than filament turns shall be located in the shaded area as seen in figure 4.
- 9/ The offset of the filament with respect to the reference axis is measured only in viewing directions A and B as shown in figure 1 on sheet H11/1. The points to be measured are those where the projection of the outside of the end turns nearest to or furthest from the reference plane crosses the filament axis.
- 10/ Eccentricity of bulb with respect to filament axis measured in two planes parallel to the reference plane where the projection of the outside of the end turns nearest to or furthest from the reference plane crosses the filament axis.

## CATEGORY H11

Sheet H11/3

Dimensions in mm	Filament lamp of normal production		Standard filament lamp	
	12 V	24 V	12 V	
e <u>11/</u>	25.0		<u>12/</u> 25.0 ± 0.1	
f <u>11/</u>	4.5	5.3 <u>12/</u>	4.5 ± 0.1	
g	0.5 min.		u.c.	
h1	0	<u>12/</u>	0 ± 0.1	
h2	0	<u>12/</u>	0 ± 0.15	
γ1	50° min.		50° min.	
γ2	40° min.		40° min.	
γ3	30° min.		30° min.	
Cap PGJ 19-2 in accordance with IEC Publication 61 (sheet 7004-110-1)				
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS				
Rated values	Volts	12	24	12
	Watts	55	70	55
Test voltage	Volts	13.2	28.0	13.2
Objective values	Watts	62 max.	80 max.	62 max.
	Luminous flux lm	1350	1600	
	±%	10	10	
Reference luminous flux for headlamp testing: 1000 lm at approx. 12V				

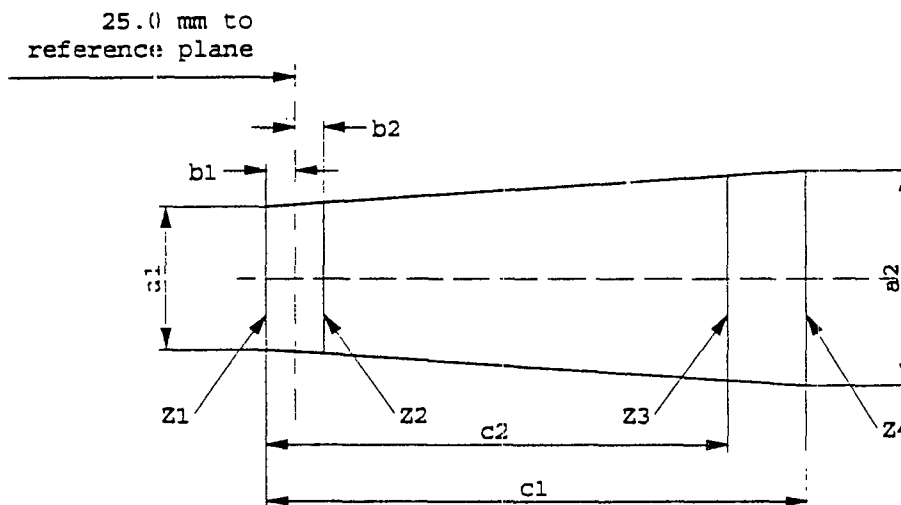
11/ The ends of the filament are defined as the points where, when the viewing direction is View A as shown in figure 1, sheet H11/1, the projection of the outside of the end turns crosses the filament axis.

12/ To be checked by means of a "Box system", sheet H11/4.

Screen projection requirements

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

Dimensions in millimetres



	$a_1$	$a_2$	$b_1$	$b_2$	$c_1$	$c_2$
12 V	$d + 0.3$	$d + 0.5$	0.2		5	4.0
24 V	$d + 0.6$	$d + 1.0$	0.25		6.3	4.6

$d$  = diameter of filament

The filament position is checked solely in directions A and B as shown on sheet H11/1.

The ends of the filament as defined on sheet H11/3, note 11/ shall lie between lines  $Z_1$  and  $Z_2$  and between lines  $Z_3$  and  $Z_4$ .

The filament shall lie entirely within the limits shown