



SLOVENSKI STANDARD
SIST EN 60154-2:1999/A1:1998
01-april-1998

Flanges for waveguides - Part 2: Relevant specifications for flanges for ordinary rectangular waveguides - Amendment A1 (IEC 60154-2:1980/A1:1997)

Flanges for waveguides -- Part 2: Relevant specifications for flanges for ordinary rectangular waveguides

Flansche für Hohlleiter -- Teil 2: Allgemeine Anforderungen für Flansche für Rechteck-Hohlleiter

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Brides pour guides d'ondes -- Partie 2: Spécifications particulières de brides pour guides d'ondes rectangulaires normaux

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Ta slovenski standard je istoveten z: EN 60154-2:1997/A1:1997

ICS:

33.120.10 Koaksialni kabli. Valovodi Coaxial cables. Waveguides

SIST EN 60154-2:1999/A1:1998 **en**

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EUROPEAN STANDARD

EN 60154-2/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 1997

UDC 621.372.822 621.372.831.12 621.643.4-181.1::621.753.1
ICS 33.120.10

Descriptors: Rectangular waveguides, dimensions of flanges

English version

Flanges for waveguides
Part 2: Relevant specifications for flanges
for ordinary rectangular waveguides
(IEC 60154-2:1980/A1:1997)

Brides pour guides d'ondes
Partie 2: Spécifications particulières
de brides pour guides d'ondes
rectangulaires normaux
(CEI 60154-2:1980/A1:1997)

Flansche für Hohlleiter
Teil 2: Allgemeine Anforderungen an
Flansche für Rechteck-Hohlleiter
(IEC 60154-2:1980/A1:1997)

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This amendment A1 modifies the European Standard EN 60154-2:1997; it was approved by CENELEC on 1997-07-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 46B/218/FDIS, future amendment 1 to IEC 60154-2:1980, prepared by SC 46B, Waveguides and their accessories, of IEC TC 46, Cables, wires, waveguides, R.F. connectors, and accessories for communication and signalling, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 60154-2:1997 on 1997-07-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 1998-06-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 1998-06-01

Endorsement notice

The text of amendment 1:1997 to the International Standard IEC 60154-2:1980 was approved by CENELEC as an amendment to the European Standard without any modification.

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC**

60154-2

1980

AMENDEMENT 1
AMENDMENT 1

1997-06

Amendement 1

Brides pour guide d'ondes –

Partie 2:

**Spécifications particulières de brides
pour guides d'ondes rectangulaires normaux**

(standards.iteh.ai)

Amendment 1

<https://standards.iteh.ai/catalog/standards/sist/e668829a-25c8-4840-8a0e-775411111111/sist-en-60154-2:1999/a1:1998>

Flanges for waveguides –

Part 2:

**Relevant specifications for flanges for ordinary
rectangular waveguides**

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

N

*Pour prix, voir catalogue en vigueur
For price, see current catalogue*

FOREWORD

This amendment has been prepared by subcommittee 46B: Waveguides and their accessories, of IEC technical committee 46: Cables, wires, waveguides, R.F. connectors and accessories for communication and signalling.

The text of this amendment is based on the following documents:

FDIS	Report on voting
46B/218/FDIS	46B/226/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

INTRODUCTION

This amendment gives the values of surface finish to be applied to the contact face of flanges.

Two sets of values are shown, one being the arithmetic mean and the other peak to peak. They both refer to the same level of finish. This is explained in ISO 468¹⁾.

Arithmetic mean:		SIST EN 60154-2:1999/A1:1998
For flanges size down to R 320		0,8 µm
For flanges size below R 320		0,4 µm
Peak to peak:		
For flanges size down to R 320		6,3 µm
For flanges size below R 320		3,2 µm

¹⁾ ISO 468: 1982, *Surface roughness – Parameters, their values and general rules for specifying requirements*

Remplacer le tableau I existant par le nouveau tableau suivant:
Replace the existing table I by the following new table:

Tableau 1 – Type de bride A/ Table 1 – Flange type A

Tableau 1a – Dimensions des brides type A pour les guides d'ondes rectangulaires normaux
Table 1a – Dimensions of type A flanges for ordinary rectangular waveguides

Dimensions en millimètres/Dimensions in millimetres

Désignation de type de bride pour guide d'ondes 154 IEC-...	Type designation of waveguide flanges 154 IEC-...	A utiliser avec guide d'ondes 153 IEC-... To be used with waveguide 153 IEC-...	F i g u r e	Type UAR – sans rainure piège ni rainure pour joint without choke or gasket groove										Type PAR – sans rainure piège mais comportant une rainure pour joint without choke; with gasket groove												
				Trous d'alignement Alignment holes			1)		Ecart Deviation		R _{max}		α		Ø 2E		Ø G		±0,05 Ø L		±0,05 Ø H		Tolérance de position Ø J		±0,10 S	
				Dia- mètre A nom	Ajuste- ment ISO	Infé- rieur Lower	Supé- rieur Upper	a ₁	b ₁	Ø P	X	Ø 2E	α	Ø 2E	Ø G	Ø L	Ø H	Ø J	±0,05 Ø L	±0,05 Ø H	Ø J	±0,10 S				
CAR } PAR } UAR }	{ 32 40 48 58 70	R 32 R 40 R 48 R 58 R 70	1 1 3 5 5	6,350 6,350 5,000 5,000 5,000	B9 B9 B9 B9 B9	+0,150 +0,150 +0,140 +0,140 +0,140	+0,186 +0,186 +0,170 +0,170 +0,170	76,20 61,42 50,80 43,64 38,10	38,10 32,33 25,40 23,44 19,05	134,9 115,6 92,2 85,9 79,5	7,9 7,9 6,4 6,4 6,4	1,0 1,0 0,8 0,8 0,8	45° 45° 45° 60° 60°	120,65 101,38 82,55 76,20 69,85	0,10 0,10 0,10 0,10 0,10	100,66 81,41 68,15 59,92 51,08	112,95 93,67 76,17 68,55 60,63	0,10 0,10 0,10 0,10 0,10	4,42 4,42 2,87 2,87 2,87							

Type CAR – comportant une rainure piège et une rainure pour joint with choke and gasket groove									
±0,05 Ø K	±0,05 Ø Q	±0,10 T	±0,127 Y	±0,127 Y ₁	±0,25 M	±0,25 V V	±0,25 W W	±0,25 Ø D	±0,05 Z
84,33	98,55	21,84	25,40	25,27	34,93	88,90	50,80	106,35	0,91
68,09	79,37	17,46	20,75	20,63	28,68	74,18	45,03	87,05	0,74
55,63	64,93	14,48	17,48	17,35	23,80	63,50	38,10	69,85	0,64
47,37	55,14	11,99	15,09	14,96	21,41	49,98	29,79	57,15	0,51
40,59	47,24	10,29	12,70	12,57	19,05	44,45	25,40	50,80	0,43

1) Ces valeurs sont les valeurs nominales de la section droite extérieure des guides d'ondes conformément à la CEI 60153. Elles doivent être considérées comme les valeurs nominales de l'ouverture de la bride citées en 2.3.2 de la CEI 60154-1 et ne sont applicables qu'aux brides séparées.

Pour les brides à manchon, les limites de tolérances actuelles dépendent de la méthode d'assemblage et devront donc être déterminées par accord entre le client et le fabricant.

Pour les types à douille, l'ouverture frontale devra avoir les dimensions comprises dans les tolérances spécifiées pour la section droite interne du modèle approprié de guide d'ondes. (Voir aussi 2.3.2 de la CEI 60154-1).

1) These values are the basic values of the outside cross-section of the waveguide according to IEC 60153. They should be regarded as basic values for the aperture according to 2.3.2 of IEC 60154-1 that apply to unmounted flanges only.

For through flanges, the actual range or deviations for the mounting aperture depends on the assembling method and should therefore be agreed between customer and manufacturer.

For socket (butt) flanges, the front-aperture should have dimensions within the deviations specified for the inside cross-section of the appropriate size of waveguide. (See also 2.3.2 of IEC 60154-1.)

Tableau 1b – Dimensions des joints pour utilisation avec des brides de type A

Table 1b – Dimensions of seals for use with type A flanges

Dimensions en millimètres/Dimensions in millimetres

Désignation de type de joint pour guide d'ondes 154 IEC-... Type designation of waveguide seals 154 IEC-...	A utiliser avec guide d'ondes 154 IEC-... To be used with waveguide flange 154 IEC-...	Figure	Dimensions des joints Dimensions for seals			
			c	Ecart sur c ± Deviation on c ±	d	Ecart sur d ± Deviation on d ±
SAR { 32 40 48 58 70	PAR { R 32 R 40 CAR { R 48 R 58 R 70	2	100,97	0,38	5,34	0,13
		2	81,92	0,38	5,34	0,13
		2	69,44	0,38	3,53	0,10
		2	59,92	0,25	3,53	0,10
		2	53,57	0,25	3,53	0,10

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Page 20

*Remplacer les figures 1-2 existantes par la nouvelle figure suivante:
Replace the existing figures 1-2 by the following new figure:*

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*Remplacer les figures 3-4 existantes par la nouvelle figure suivante:
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*Remplacer les figures 5-6 existantes par la nouvelle figure suivante:
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*Ajouter la nouvelle figure suivante:
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*Remplacer les figures 7-8 existantes par la nouvelle figure suivante:
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*Remplacer la figure 13A existante par la nouvelle figure suivante:
Replace the existing figure 13A by the following new figure:*

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*Remplacer la figure 13B existante par la nouvelle figure suivante:
Replace the existing figure 13B by the following new figure:*

Page 41 et/and 42

*Remplacer les figures 13C et 13D existantes par la nouvelle figure 13C suivante:
Replace the existing figure 13C and 13D by the following new figure 13C:*

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*Ajouter la nouvelle figure suivante:
Add the following new figure:*

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*Remplacer la figure 14 existante par la nouvelle figure suivante:
Replace the existing figure 14 by the following new figure:*

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*Remplacer la figure 15 existante par la nouvelle figure suivante:
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*Ajouter la nouvelle figure suivante:
Add the following new figure:*



