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Flanges for waveguides - Part 7: Relevant specifications for flanges for square waveguides (IEC 60154-7:1974)

Flansche für Hohlleiter - Teil 7: Sonderbestimmungen für Flansche für quadratische Hohlleiter (IEC 60154-7:1974)

Brides pour guides d'ondes - Partie 7: Spécifications particulières des brides pour guides d'ondes carrés (CEI 60154-7:1974)

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Septième partie: Spécifications
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d'ondes carrés

Flansche für Hohlleiter
Teil 7: Sonderbestimmungen für
Flansche für quadratische
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Brides pour guides d'ondes

**Septième partie:
Spécifications particulières de brides
pour guides d'ondes carrés**

iTeh STANDARD PREVIEW

Flanges for waveguides

**Part 7: Relevant specifications for flanges
for square waveguides**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

FLANGES FOR WAVEGUIDES

Part 7 : Relevant specifications for flanges for square waveguides

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendations and the corresponding national rules should, as far as possible, be clearly indicated in the latter.
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

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 PREFACE
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This recommendation has been prepared by Sub-Committee 46B, Waveguides and their Accessories, of IEC Technical Committee No. 46, Cables, Wires and Waveguides for Telecommunication Equipment.

It forms the seventh part of the complete recommendation dealing with flanges for waveguides, and should be used in conjunction with Part 1, General Requirements and Measuring Methods, issued as Publication 154-1.

Detail specifications for other types of waveguide are issued in companion publications.

The general outline of this recommendation was first discussed at the meeting held in Tel Aviv in 1966. A revised draft was prepared and discussed during the meeting held in London in 1968. As a result of this latter meeting, a draft, document 46B(Central Office)40, was submitted to the National Committees for approval under the Six Months' Rule, then amended by document 46B(Central Office)40A, in March and April respectively.

Although the draft received formal approval, it was decided at the meeting of Sub-Committee 46B in The Hague in 1970 that a draft, document 46B(Central Office)52, containing only a revised drawing, be submitted to the National Committees for approval under the Two Months' Procedure in July 1971.

Following the meeting in The Hague, it was discovered that there had been no proposal for flanges for square waveguide sizes Q54, Q100 and Q130. Prior to the Helsinki meeting, document 46B(Central Office)57 was prepared and submitted to the National Committees for approval under the Six Months' Rule in August 1972.

During the 1973 Helsinki meeting, it was decided that the circular tolerancing method should apply to the dimensioning of square waveguide flanges.

The three approved Six Months' drafts and the approved Two Months' Procedure document have been combined to form this recommendation.

Some editorial comments were discussed and accepted at the meeting held in Helsinki in 1973.

The following countries voted explicitly in favour of publication:

Documents
46B(Central Office)40 and 40A

Australia
Belgium
Czechoslovakia
Denmark
Germany
Iran
Israel

Document
46B(Central Office)52

Australia
Belgium
Denmark
Germany
Iran
Italy
Japan

Document
46B(Central Office)57

Belgium
Denmark
France
Germany
Israel
Italy
Japan

Documents
46B(Central Office)40 and 40 A

Italy
Japan
Norway
Poland
Sweden
Switzerland
Turkey
United Kingdom
United States of America

Document
46B(Central Office)52

Netherlands
Norway
Sweden
Switzerland
Turkey
United Kingdom
United States of America

Document
46B(Central Office)57

Norway
Sweden
Turkey
United Kingdom
United States of America

It should be noted that no recommendations are made for the materials to be used for the waveguide flanges. The choice of material shall be agreed between purchaser and manufacturer.

DIMENSIONAL DEVIATIONS

The values for the permissible deviations in this recommendation follow the principles given in ISO Recommendation R286, ISO System of Limits and Fits, where:

Deviation is defined as:

Algebraical difference between a size (actual, maximum, etc.) and the corresponding basic size.

Upper deviation is defined as:

Algebraical difference between the maximum limit of size and the corresponding basic size.

And lower deviation is defined as:

Algebraical difference between the minimum limit of size and the corresponding basic size.

It should be noted that the upper and lower deviations may have like signs, unlike signs or either deviation may be zero. This permits the basic sizes of mating shafts and holes to be identical.

The older concept of plus tolerances and minus tolerances has an undesirable limitation, in that the basic sizes of mating shafts and holes cannot be identical for clearance fits.

FLANGES FOR WAVEGUIDES

Part 7: Relevant specifications for flanges for square waveguides

Clause No.	Item
1.	General
1.1	<i>Standardized types</i>
	The series of flanges for square waveguides covered by this recommendation are shown in Table I.
1.2	<i>Type designation</i>
	<p>Waveguide flanges covered by this recommendation shall be indicated by a reference number comprising the following information:</p> <ul style="list-style-type: none"> a) The number of the present IEC Publication (154). b) The letters “ IEC ”. c) A dash. d) A letter relating to the basic construction of the flange, viz: <ul style="list-style-type: none"> P = a flange with a gasket groove (this groove accommodates either a gas-tight sealing gasket, an electrical sealing gasket or a gasket that provides both gas-tightness and electrical sealing). (Formerly called pressurizable.) U = a flange without a groove (sometimes this flange is used with a flat electrical sealing gasket or a flat gas-tight sealing gasket or a flat gas-tight and electrical sealing gasket). (Formerly called unpressurizable.) e) A letter for the type according to the drawing. Flanges with the same letter and of the same waveguide size can be mated. f) The letter and number of the waveguide for which the flange is designed. <p><i>Example</i>: 154 IEC — UKQ 49 denotes a flange without gasket groove of Type K, for square waveguide 153 IEC — Q 49.</p>
2.	Mechanical requirements
2.1	<i>General requirements both for assemblies and for unmounted flanges</i>
2.1.1	<i>Locating holes</i>
	All holes shall be precision drilled.
2.1.2	<i>Shank diameter of fixing bolts used for locating</i>
	The basic values and deviations thereon are specified in Table I of this recommendation.