



# SLOVENSKI STANDARD

## SIST EN 20273:1996

01-april-1996

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### Mehanski vezni elementi - Skoznje luknje za vijake

Fasteners - Clearance holes for bolts and screws (ISO 273:1979)

Mechanische Verbindungselemente - Durchgangslöcher für Schrauben (ISO 273:1979)

Éléments de fixation - Trous de passage pour boulons et vis (ISO 273:1979)

Ta slovenski standard je istoveten z: EN 20273:1991

[SIST EN 20273:1996](https://standards.iteh.ai/catalog/standards/sist/fb44bcbe-b9e7-49b5-92be-ad144df84880/sist-en-20273-1996)

<https://standards.iteh.ai/catalog/standards/sist/fb44bcbe-b9e7-49b5-92be-ad144df84880/sist-en-20273-1996>

#### **ICS:**

21.060.01      Vezni elementi na splošno      Fasteners in general

**SIST EN 20273:1996**

**en**

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EUROPEAN STANDARD

EN 20273:1991

NORME EUROPEENNE

EUROPAISCHE NORM

October 1991

UDC 621.882.2:621.882.15

Descriptors : Fasteners, bolts, screws, dimensions, hole size, dimensional tolerances

### English version

#### Fasteners - Clearance holes for bolts and screws (ISO 273:1979)

Eléments de fixation - Trous de passage pour boulons et vis (ISO 273:1979)      Mechanische Verbindungselemente - Durchgangslöcher für Schrauben (ISO 273:1979)

This European Standard was approved by CEN on 1991-10-10 and is identical to the ISO standard as referred to.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 CEN member.

[SIST EN 20273:1996](https://standards.iteh.ai/catalog/standards/sist/b144bcb9-b9e7-49b5-82be-ad144df84880/sist-en-20273-1996)

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

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

### CEN

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

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Ref. No. EN 20273:1991 E

### FOREWORD

In 1990, ISO 273:1979 was submitted to the CEN P.Q.-procedure.

Following the positive result of the P.Q., CEN/BT agreed to submit ISO 273:1979 with the following modifications to Formal Vote.

In the French version, replace

- "boulon" by "vis",
- "boulon, vis" by "vis".

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard :

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

### Endorsement notice

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The text of the International Standard ISO 273:1979 was approved by CEN as a European Standard with agreed common modifications as given above.

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# International Standard



# 273

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

## Fasteners — Clearance holes for bolts and screws

*Éléments de fixation — Trous de passage pour boulons et vis*

First edition — 1979-06-01

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SIST EN 20273:1996

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UDC 621.882.15

Ref. No. ISO 273-1979 (E)

Descriptors : fasteners, screws, dimensions, bolts, hole size, dimensional tolerances.

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 273 was developed by Technical Committee ISO/TC 2, *Fasteners*, and was circulated to the member bodies in December 1977.

It has been approved by the member bodies of the following countries :

Australia	Hungary	New Zealand
Belgium	India	Norway
Bulgaria	Ireland	Romania
Canada	Italy	Spain
Czechoslovakia	Japan	Sweden
Denmark	Korea, Dem. P. Rep. of	Switzerland
Finland	Korea, Rep. of	Turkey
France	Mexico	USA
Germany, F. R.	Netherlands	Yugoslavia

The member bodies of the following countries expressed disapproval of the document on technical grounds :

South Africa, Rep. of  
United Kingdom  
USSR

This International Standard cancels and replaces ISO Recommendation R 273-1962 of which it constitutes a technical revision.

## Fasteners — Clearance holes for bolts and screws

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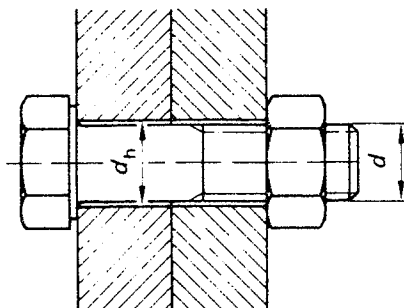
### 1 SCOPE AND FIELD OF APPLICATION [SIST EN 20273:1996](https://standards.iteh.ai/catalog/standards/sist/fb44bcbe-b9e7-49b5-92be-2d14d84880/sist-en-20273-1996)

<https://standards.iteh.ai/catalog/standards/sist/fb44bcbe-b9e7-49b5-92be-2d14d84880/sist-en-20273-1996>  
This International Standard specifies clearance hole diameters for general purpose applications. These values result from bearing area calculations in connection with ISO bolt and nut product standards.

NOTE — Clearance holes for special applications should be selected on the basis of design requirements.

## ISO 273-1979 (E)

## 2 DIMENSIONS



Dimensions in millimetres

Thread diameter $d$	Clearance hole $d_h$		
	Series :		
	fine	medium	coarse
1	1,1	1,2	1,3
1,2	1,3	1,4	1,5
1,4	1,5	1,6	1,8
1,6	1,7	1,8	2
1,8	2	2,1	2,2
2	2,2	2,4	2,6
2,5	2,7	2,9	3,1
3	3,2	3,4	3,6
3,5	3,7	3,9	4,2
4	4,3	4,5	4,8
4,5	4,8	5,1	5,3
5	5,3	5,5	5,8
6	6,4	6,6	7
7	7,4	7,6	8
8	8,4	9	10
10	10,5	11	12
12	13	13,5	14,5
14	15	15,5	16,5
16	17	17,5	18,5
18	19	20	21
20	21	22	24
22	23	24	26
24	25	26	28
27	28	30	32
30	31	33	35
33	34	36	38
36	37	39	42
39	40	42	45

Thread diameter $d$	Clearance hole $d_h$		
	Series :		
	fine	medium	coarse
42	43	45	48
45	46	48	52
48	50	52	56
52	54	56	62
56	58	62	66
60	62	66	70
64	66	70	74
68	70	74	78
72	74	78	82
76	78	82	86
80	82	86	91
85	87	91	96
90	93	96	101
95	98	101	107
100	104	107	112
105	109	112	117
110	114	117	122
115	119	122	127
120	124	127	132
125	129	132	137
130	134	137	144
140	144	147	155
150	155	158	165

The following tolerance fields are given for information only, for use where it is desirable to specify tolerances :

fine series : H12

medium series : H13

coarse series : H14

In cases where it is necessary to avoid interference between the edge of the hole and the underhead fillet of the bolt, a chamfer is recommended.