
International Standard



1035/2

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

**Hot-rolled steel bars —
Part 2 : Dimensions of square bars**

*Barres en acier laminées à chaud —
Partie 2 : Dimensions des barres carrées*

First edition — 1980-10-15

UDC 669.14-422

Ref. No. ISO 1035/2-1980 (E)

Descriptors : metal products, iron and steel products, hot rolled products, steel products, metal bars, square bars, dimensions.

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 1035/2 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in December 1978.

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

Australia	Germany, F. R.	South Africa, Rep. of
Austria	Hungary	Spain
Belgium	India	Sweden
Bulgaria	Italy	Switzerland
Canada	Korea, Dem. P. Rep. of	Thailand
Czechoslovakia	Korea, Rep. of	Turkey
Denmark	Netherlands	United Kingdom
Egypt, Arab Rep. of	New Zealand	USSR
Finland	Poland	
France	Romania	

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

Japan
USA

This International Standard cancels and replaces ISO Recommendation R 1035/2-1969, of which it constitutes a technical revision.

Hot-rolled steel bars — Part 2 : Dimensions of square bars

1 Scope and field of application

This International Standard specifies dimensions of metric series hot-rolled steel square bars.

2 Reference

ISO 1035/4, *Hot-rolled steel bars — Part 4 : Tolerances of round, square and flat bars — Metric series.*

3 Dimensions and tolerances

3.1 The dimensions of square bars are given in the table 1.

Table 1 — Dimensions, sectional areas and masses per unit length

Preferred sizes			Second-preference sizes		
Width mm	Sectional area cm ²	Mass ¹⁾ per unit length kg/m	Width mm	Sectional area cm ²	Mass ¹⁾ per unit length kg/m
8	0,64	0,502	28	7,84	6,15
10	1,00	0,785	32	10,2	8,04
12	1,44	1,13	45	20,2	15,9
14	1,96	1,54	55	30,2	23,7
16	2,56	2,01	90	81,0	63,6
18	3,24	2,54			
20	4,00	3,14			
22	4,84	3,80			
25	6,25	4,91			
30	9,00	7,06			
35	12,2	9,58			
40	16,0	12,6			
50	25,0	19,6			
60	36,0	28,3			
70	49,0	38,5			
80	64,0	50,2			
100	100	78,5			
120	144	113			

1) The values of mass are given for information only and are based on a density of steel of 7,85 kg/dm³.

3.2 The corner radii for square bars as shown in table 2 are for information only.

Table 2 — Corner radii for square bars

Sizes		Corner radii <i>r</i> max. mm
Over mm	Up to and including mm	
—	12	1,0
12	20	1,5
20	30	2,0
30	50	2,5
50	100	3,0
100	120	4,0

3.3 Unless otherwise specified in the order, the tolerances on the dimensions of square bars shall be the normal tolerances specified in ISO 1035/4. Tolerances tighter than those specified in ISO 1035/4 will form the subject of a future International Standard.