

DRAFT ZANZIBAR NATIONAL STANDARD

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

ZANZIBAR BUREAU OF STANDARDS

National Foreword

This draft Zanzibar National standard has been prepared by the Mechanical and Automotive Standard Technical committee. In accordance with ZBS general procedures, this draft standard is presented to the public in order to receive any technical comment concerns.

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Mechanical and Automotive Standard Technical committee which consists of representatives from the following organizations:

Buda Auto Parts
Department of Environment Zanzibar (DoE)
Government Agency for Automobile Workshop Services (GAAWS)
Karume Institute of Science and Technology (KIST)
Zanzibar Road Transport and Safety Authority (ZARTSA)
Zanzibar Utilities Regulatory Authority (ZURA),
Zanzibar Electricity Corporation (ZECO)
Zanzibar Bureau of Standards (ZBS) - Secretariat

Zanzibar Bureau of Standard (ZBS)
P O Box 1136
Zanzibar
Tel: +255 24 2232225
Fax: +255 24 2232225
E-mail: info@zbs.go.tz
Web: www.zbs.go.tz

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

1 Scope

This Zanzibar Standard specifies dimensions of metric series hot-rolled steel square bars intended for general purposes

2 Normative references

ISO 1035-4, Hot-rolled steel bar - Part 4: Tolerances of round, Square and flat Bars - Metric series.

3 Terms and definitions

No terms and definitions are listed in this document

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org>

4 Dimensions and tolerances

4.1 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 based on a density of steel of 7.85kg/dm³

4.2 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 Standard.

ANNEX A
INFORMATIVE
Corner radii for square bars

Sizes		Corner radii r, maximum (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

Table 2: Corner radii for square bars