SRI LANKA STANDARD 938: PART 6:1991

UDC 621.882.4

SPECIFICATION FOR PLAIN METAL WASHERS

PART 6 - EXTRA LARGE SERIES - PRODUCT GRADE C

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SLS 938:Part 6:1991

Gr. 4

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SRI LANKA STANDARDS INSTITUTION

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This standard does not purport to include all the necessary provisions of a contract.

SPECIFICATION FOR PLAIN METAL WASHERS PART 6 : EXTRA LARGE SERIES - PRODUCT GRADE C

FOREWORD

This standard was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 91-10-29, after it had been approved by the Mechanical Engineering Divisional Committee.

This standard consisting of the following parts supersedes SLS 238: 1973.

Specification for Plain Metal Washers

- Part 1 Small series Product Grade A
 Part 2 Normal series Product Grade A
 Part 3 Normal series Product Grade C
 Part 4 Chamfered Normal series Product Grade A
 Part 5 Large series Product Grades A and C
- Part 6 Extra Large series Product Grade C
- Part 7 Sampling

For the purpose of deciding whether a particular requirement of this Standard is complied with, the final value, observed or calculated, expressing the result of a test or an observation shall be rounded off in acordance with CS 102. The number of figures to be retained in the rounded off value shall be the same as that of the specified value in this standard.

The Sri Lanka Standards Institution gratefully acknowledges the use of relevant publications of the International Organization for Standardization (ISO) in the preparation of this standard.

1 SCOPE

This part of the standard lays down class, designation, material, dimensions, marking and sampling for extra large series plain metal washers of product grade C.

2 REFERENCES

ISO	887	Plain Washers for metric bolts, screws and nuts - General Plan.
ISO	1456	Metallic Coatings - Electroplated coatings of nickel plus chromium
ISO	1457	Metallic Coatings - Electroplated coatings of copper plus nickel plus chromium on iron or steel
ISO	1458	Metallic coatings - Electroplated coatings of nickel
ISO	475 9	Tolerances for fastners - Part 3 Washers for metric bolts, screws and nuts with thread diameters from 1 up to and including 150 mm - Product grade A and C
CS	102	Presentation of numerical values
SLS	482	Code of practice for hot dip galvanizing of Iron and steel
CS	121	Methods of testing mass, thickness and uniformity of coating on hot dipped galvanized articles.
SLS	****	Specification for plain metal washers Part 7 Sampling

3 DEFINITIONS

For the purpose of this standard the following definitions shall apply:

- 3.1 grade : The degree of preciseness of the clearance hole . There are two grades, namely, product A and product C. Product A being more precise as specified in ISO 887 and ISO 4759 : Part 3
- 3.2 type: Comparative size of the outer diameter. Types are small series (SS), normal series (NS) large series (LS) and extra large series (ELS).
- 3.3 class: A measure of the vickers hardness number and an indication of the material. A washer made of steel of vickers hardness 100 HV is of class 100 HV.

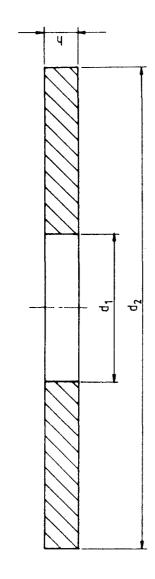
4 GRADE, TYPE, CLASS AND DESIGNATION

4.1 Grade

The grade of metal washers shall be product grade C.

^{*} Under preparation

TABLE 1 - Dimensions of metal washers



Dimensions in millimetres

	min. (8)	1.7	1.7	2.4	2.4	3.4	3.4	7	ۍ	Ŋ	5	8.9
Thickness	Bax. (7)	2.3	2.3	3.6	3.6	4.6	4.6	9	7	7	7	9.2
	nom. (6)	2	2	m	m	7	4	2	9	9	9	∞
ameter	min. (5)	16.9	20.7	26.7	32.4	42.4	48.4	54.1	70.1	82.8	102.8	122.5
Outside diameter d2	nom. (max.) (4)	18	22	28	34	77	20	56	72	85	105	125
hole d ₁	max. (3)	5.8	96.9	9.36	11.43	13,93	15,93	18.2	22.84	26.84	34	70
Clearance hole	nom. (min.) (2)	5.5	9.9	6	11	13.5	15.5	17.5	22	26	33	39
Nominal size (Thread	size, d) (1)	5	9	80	10	12	14	16	20	24	30	36

4.2 Type

The type of metal washers shall extra large series (ELS).

4.3 Designation

Washers shall be designated by grade, type, nominal hole diameter, material and vickers hardness.

EXAMPLE

1) C ELS 8 - 100 HV

C refers to Product grade C.

ELS refers to extra large series

8 refers to hole diameter, d. in mm.

100 HV refers to steel of 100 HV

5 REQUIREMENTS

5.1 Material

Material for Product C, washers shall be steel having hardness value 100 HV.

5.2 Dimensions

Dimensions of metal washers shall be as given in Table 1.

6 MARKING

The package of washers shall be marked legibly and indelibly with informations

- a. Designation:
- b. Quantity, either as number of washers or as net weight; and
- c. Name of Manufacturer or Registered Trade Mark.

7 SAMPLING

Sampling and conformity to standard shall be as given in SLS.... Part 7

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