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Indian Standard SPECIFICATION FOR SLIDING LOCKING BOLTS FOR USE WITH PADLOCKS (First Revision)

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR SLIDING LOCKING BOLTS FOR USE WITH PADLOCKS

(First Revision)

Builder's Hardware Sectional Committee, BDC 15

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Indian Standard

SPECIFICATION FOR SLIDING LOCKING BOLTS FOR USE WITH PADLOCKS

(First Revision)

O. FOREWORD

- **0.1** This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 15 March 1985, after the draft finalized by the Builder's Hardware Sectional Committee had been approved by the Civil Engineering Division Council.
- 0.2 Locking bolts are fastners like sliding door bolts for securing doors. Sliding door bolts with hasps and staples have been covered separately in IS: 281-1973*. These locking bolts are type of sliding door bolts in which the hasp and staple are omitted. The bolt is locked either directly to the door frame or with a plate fixed at right angle to the bolt plate. These type of locking bolts are used in large numbers.
- 0.3 This standard was originally published in 1974. In the present revision locking bolt with curved plate has been included. The dimensions of locking bolt with straight plate have been modified and use of aluminium in addition to mild steel has been permitted.
- **0.4** 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 analysis, shall be rounded off in accordance with IS: 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard lays down the requirements regarding materials, dimension, manufacture and finish of sliding locking bolts commonly used for locking doors, gates, etc, with padlocks.

^{*}Mild steel sliding door bolts for use with padlocks (second revision).

2. LOCKING BOLTS

2.1 These shall be of two types:

Type I — with straight locking plate, and Type II — with curved locking plate.

3. SIZES

- 3.1 Locking bolts shall be of 110, 150, 200, 250 and 300 mm size.
 - 3.1.1 The size shall be denoted by the length of bolt (see Fig. 1 and 2).
- 3.2 Locking bolts of sizes other than those specified in 3.1 may also be supplied by mutual agreement between the purchaser and the supplier.

4. MATERIAL

4.1 Materials used for the manufacture of locking bolts shall comply with the requirements given in Table 1.

TABLE 1 REQUIREMENTS FOR MATERIALS FOR LOCKING BOLTS

SL No. PART MATERIAL			SUITABLE GRADE IN INDIAN STANDARD			
i)	Bolt plate and receiving plate	Mild steel sheet Aluminium alloy sheet	Grade 0-1079 of IS: 1079-1973* IS Designation 52000 or 65032 of IS: 737-1974†			
ii)	Bolt	Mild steel rods Aluminium alloy extruded rod	Grade Fe 310-0 of IS: 1977-1975‡ IS Designation 63400 WP or 65032 WP of IS: 733-1983§			

^{*}Specification for hot rolled carbon steel sheet and strip (third revision).

5. MANUFACTURE

5.1 General - The locking bolts shall have smooth sliding action. All sharp edges and corners shall be removed and finished smooth. All screw holes shall be countersunk to suit the countersunk head wood screws (see IS: 6760-1972*) of sizes as specified in Table 2.

[†]Specification for wrought aluminium and aluminium alloys, sheet and strip (for general engineering purposes) (second revision).

[‡]Specification for structural steel (ordinary quality) (second revision).

[§]Specification for wrought aluminium and aluminium alloy bars, rods, and sections (for general engineering purposes) (third revision).

^{*}Specification for slotted countersunk head wood screws.

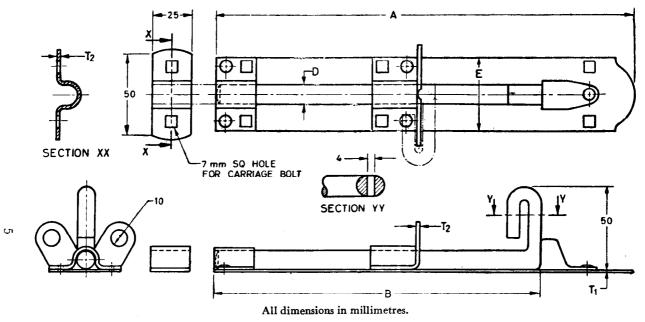
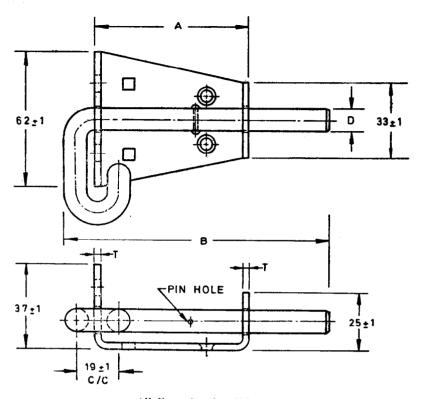


Fig. 1 Typical Sketch of Locking Bolt with Straight Locking Plate (Type I)



All dimensions in millimetres.

Fig. 2 Sliding Locking Bolt with Curved Locking Plate (Type II)

TABLE 2 DIMENSIONS OF LOCKING BOLT

(Clause 6.1 and Fig. 1 and 2)

All dimensions in millimetres.

Туре	REF TO FIG.		LENGTH OF BOLT PLATE	LENGTH OF BOLT	DIA OF BOLT	WIDTH OF BOLT PLATE	THICKNESS OF BOLT PLATE	THICKNESS OF PLATE CARRYING HOLES FOR LOCKING	No. in Plate and Locking Plate	Desig- nation
			\boldsymbol{A}	$\boldsymbol{\mathit{B}}$	D	$\boldsymbol{\mathit{E}}$	T_1	T_2		1972*)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
I	1	150 200 250 300	210 ± 1 260 ± 1 310 ± 1 360 ± 1	$ \begin{array}{c} 150 \pm 2 \\ 200 \pm 2 \\ 250 \pm 2 \\ 300 \pm 2 \end{array} $	$ \begin{array}{c} 10 \pm 0.5 \\ \text{or} \\ 12 \pm 0.5 \end{array} $	- 4 5 ± 1	Mild Steel: 2 ± 0.10 Aluminium: 3 ± 0.10	Mild Steel: 2 ± 0·10 Aluminium 3 ± 0·10	n: 8	9
			A	В	D		T			
II	2	110	65 ± 1	110 ± 2	10 ± 0.5		3 ± 0·10		4	9

^{*}Specification for slotted countersunk head wood screws.

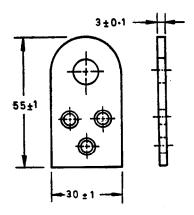
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- 5.1.1 Bolt Plate The bolt ptate shall be made from either mild steel or aluminium alloy sheets and shall be cut, bend to shape and finished smooth.
- 5.1.2 Bolt Bolts shall be made from either mild steel or aluminium alloy rods and shall be cut, bent to shape and shall be firmly riveted or spot welded in the middle to restrict its movement.

6. DIMENSIONS AND TOLERANCES

6.1 The size and dimensions of the locking bolts and receiving plate shall conform to Table 2 read with Fig. 1, 2 and 3.



All dimensions in millimetres.

Note 1 - Clear edge distance of holes = 5 mm, Min.

Note 2 — Screw hole designation No. 9 (see IS: 6760-1972).

Fig. 3 Typical Sketch of Receiving Plate

7. FINISH

7.1 Mild steel locking bolts shall be copper oxidized, electrogalvanized or stove enamelled black. Aluminium alloy bolt shall be anodized to a bright, natural mat or satin finish or dyed. The anodic coating shall not be less than Grade AC 10 of IS: 1868-1982* or as required by the purchaser. All bolts shall be finished bright.

8. MARKING

8.1 Each locking bolt shall be marked with the manufacturer's name or trade-mark.

^{*}Specification for anodic coatings on aluminium (second revision).

8.1.1 Locking bolt may also be marked with the ISI Certification Mark.

Note — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

9. SAMPLING AND CRITERION FOR CONFORMITY

9.1 The method of selecting locking bolts and criterion for conformity shall be as given in Appendix A.

APPENDIX A

(Clause 9.1)

SAMPLING OF SLIDING LOCKING BOLTS FOR USE WITH PADLOCKS

A-1. SCALE OF SAMPLING

- **A-1.1 Lot** In any consignment all the locking bolts of the same size, same type and manufactured at the same time shall be grouped together to constitute a lot.
- A-1.2 For ascertaining the conformity of the lot to the requirements of this specification, samples shall be tested from each lot separately.
- A-1.3 The number of locking bolts to be selected from the lot shall depend on the size of the lot and shall be according to Table 3.
- A-1.3.1 These locking bolts shall be selected at random from at least 10 percent of the packages subject to a minimum of three packages, equal number of locking bolts being selected from each such package. In order to ensure the randomness of selection, procedures given in IS: 4905-1968* may be followed.

^{*}Methods for random sampling.

TABLE 3 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES

(Clause A-1.3)

No. of Locking Bolts in the Lot	Sample Size	PERMISSIBLE No. of DEFECTIVES		
(1)	(2)	(3)		
Up to 150	13	0		
151 to 300	20	1		
301 to 500	32	2		
501 and above	50	3		
501 and above	50	3		

A-2. NUMBER OF TESTS AND CRITERIA FOR CONFORMITY

- **A-2.1** All the locking bolts selected according to **A-1.3** shall be examined for dimensional requirements (see 6), defects in manufacture (see 5) and finish (see 7). Any locking bolts failing to satisfy one or more of these requirements shall be considered as defective.
- A-2.2 The lot shall be considered as conforming to the requirements of this specification if the number of defectives found in the sample does not exceed the corresponding permissible number of defectives given in col 3 of Table 3.

Note — For conformity of the requirements of the material given in 4 of the specification, the manufacturer shall provide a test certificate.



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