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मानक

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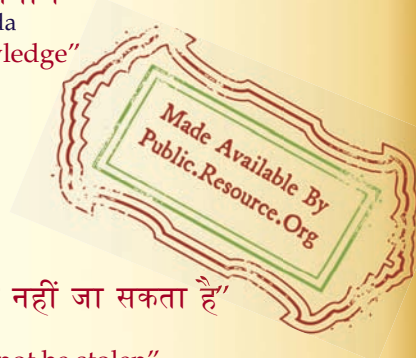
IS 8822 (1978): Slotted mushroom head roofing bolts [PGD
31: Bolts, Nuts and Fasteners Accessories]



“ज्ञान से एक नये भारत का निर्माण”

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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

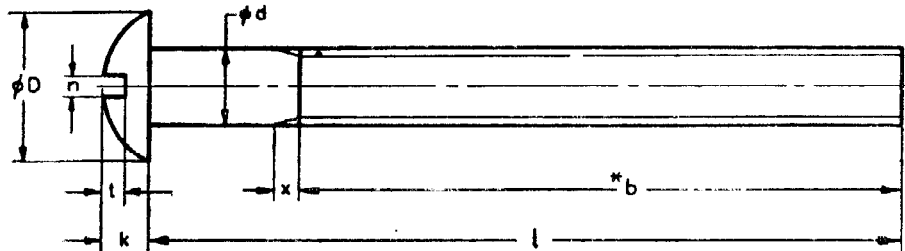
SPECIFICATION FOR
SLOTTED MUSHROOM HEAD ROOFING BOLTS

1. **Scope** — Covers the requirements for slotted mushroom head roofing bolts in the diameter range 6 to 10 mm.

2. **Dimensions and Tolerances** — As given in Table 1.

TABLE 1 DIMENSIONS AND TOLERANCES FOR SLOTTED MUSHROOM HEAD ROOFING BOLTS

All dimensions in millimetres.



x according to IS : 1369-1975 Dimensions of screw threads run-outs and undercuts (first revision).

Nominal Size		M6	M8	M10
d Nom	($\pm IT15$)	6	8	10
n	Max	1.8	1.8	2.8
	Min	1.6	1.6	2.5
k	js16	4	5	6
D	js16	13	16	20
t	Max	2.1	2.6	3
	Min	1.6	2	2.4
l	js17	12, 16, 20, 25, 30, 40, 45, 50 and if required, up to 300 in steps of 10 mm.		

Note — Bolts are permitted to have scant shank in which case shank diameter may be made equal to pitch diameter.

*Bolts up to and including 80 mm long shall be threaded up to head.
Bolts over 80 mm long shall have a nominal thread length of 80 mm.

3. **Grade** — Black grade (B) as specified in IS : 1367-1967 'Technical supply conditions for threaded fasteners (first revision)'.
4. **Mechanical Properties** — Property class 4.6 of IS : 1367-1967.

5. **Designation** — Slotted mushroom head bolts shall be designated by name, nominal size, length and number of this standard.

Example:

A slotted mushroom head bolt of size M6 and length 50 mm shall be designated as:
Slotted Mushroom Head Bolt M6 \times 50 IS : 8822

5.1 Where the bolts are required with square nuts (see 7.2) they shall be designated as given below:

Example:

A slotted mushroom head bolt of size M6 and length 50 mm with a square nut shall be designated as:

Slotted Mushroom Head Bolt M6 \times 50N IS : 8822

6. Sampling — The method of sampling and acceptance criteria shall be in accordance with IS : 2614-1969 ' Methods for sampling of fasteners (*first revision*) '.

7. General Requirements

7.1 In regard to requirements not covered in this standard, the bolts shall conform to IS : 1367-1967.

7.2 The square nuts used with slotted mushroom head bolts shall conform to IS : 2585-1968 ' Black square bolts and nuts (dia range 6 to 39 mm) and black square screws (dia range 6 to 24 mm) (*first revision*) '.

7.2.1 Hexagon nuts in accordance with IS : 1363-1967 ' Black hexagon bolts, nuts and lock nuts (dia 6 to 39 mm) and black hexagon screws (dia 6 to 24 mm) (*first revision*) ' or square pressed nuts may also be supplied when required by the purchaser.

7.3 Slotted mushroom head bolts shall be surface protected with suitable coating as specified by the purchaser.

7.3.1 When the bolts are hot-dip galvanized, the requirements shall be in accordance with IS : 5358-1969 ' Hot-dip galvanized coatings on fasteners '.

8. ISI Certification Marking — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

Fasteners for corrugated sheet roofing were originally covered in IS : 730-1966 ' Fasteners for corrugated sheet roofing (*first revision*) '. While reviewing this standard for revision it was decided to cover mushroom bolts, hook bolts and washers for separate standards. This standard covers mushroom bolts. In the present version the following changes have been made:

- a) Square nut size of M5 has been deleted.
- b) Reference has been made to IS : 1367 in regard to mechanical properties, grade and other general requirements.
- c) Tolerances on dimensions have been added.

The product grade specified as black grade (B) in Clause 3 would correspond to product grade (C) as specified in the revision of IS : 1367 (Part II) ' Technical supply conditions for threaded steel fasteners: Part II Product grades and tolerances ' to be published in due course.

This standard has been brought in line with BS : 1494 Part I : 1964 ' Specification for fixing accessories for building purposes — fixing for sheet, roof and wall covering ', issued by British Standards Institution.