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मानक

IS 8412 (1977): Slotted Countersunk Head Bolts for Steel Structures [PGD 31: Bolts, Nuts and Fasteners Accessories]



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BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002 2.2 The preferred length size combinations of the bolts shall be as given in Table 2.

TABLE 2 PREFERRED LENGTH SIZE COMBINATIONS OF SLOTTED COUNTERSUNK HEAD BOLTS

ا (<u>ا</u> چر)	NOMINAL SIZE					
	M10	M12	М16	M20	M22	M24
20					•	
25						
30						
35	Γ					
40						
45						
50				l i		
55		1				
60						
65						
70			I			
75			1			
80						
90						
100						
110						
120						
130						
140						
150						
160						

All dimensions in millimetres.

Note 1 - Preferred length size combinations are between the stepped bold lines.

Note 2-Lengths above the dotted line are fully threaded.

Note 3 - For meaning of the stepped chain dotted line, see notes under Table 1.

3. Grade — Black grade (B) as specified in IS: 1367-1967 'Technical supply conditions for threaded fasteners (*first revision*)'.

4. Designation

4.1 Slotted countersunk head bolts shall be designated by the name, nominal size, length, number of this standard and symbol for mechanical property class.

Example:

A slotted countersunk head bolt of nominal size M16, length 70 mm and property class 8.8 shall be designated as:

Slotted Countersunk Head Bolt M16 \times 70 IS : 8412-8.8.

4.2 When the bolts are required with nuts (see 7.1), they shall be designated as below:

Example:

A slotted countersunk head bolt of nominal size M16, length 70 mm with nut and property class 8.8 shall be designated as:

Slotted Countersunk Head Bolt M16 \times 70N IS : 8412-8.8.

5. Mechanical Properties - Property classes 4.6 or 8.8 of IS: 1367-1967.

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

7. General Requirements

7.1 Nuts used with slotted countersunk head bolts for steel structures shall conform to the requirements as specified in IS : 1363-1967 ' Specification for black hexagon bolts, nuts and lock nuts (dia 6 to 39 mm) and black hexagon screws (dia 6 to 24 mm)'.

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

8. Certification Marking — Details available with the Bureau of Indian Standards.

EXPLANATORY NOTE

In the preparation of this standard, considerable assistance has been derived from DIN 7969-1970 'Senkschrauben mit Schlitz, ohne Mutter, mit Sechskantmutter, fur Stahlkonstruktionen' (Countersunk head bolts with slot without nut; with hexagon nut for steel structures), issued by Deutsches Institut fur Normung.