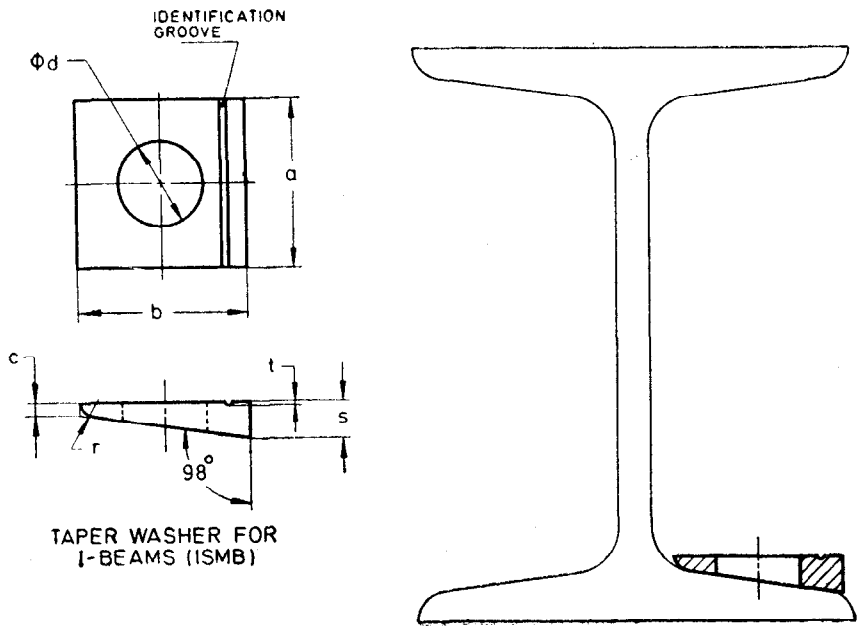


Indian Standard

SPECIFICATION FOR
TAPER WASHERS FOR I-BEAMS (ISMB)
(First Revision)

1. Scope – Covers the requirements for taper washers for use with Indian Standard Medium Weight Beams (ISMB) with bolts in the diameter range 10 to 39 mm.

2. Dimensions



All dimensions in millimetres.

Nominal Size <i>d</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>r</i>	<i>s</i>	<i>t</i> Approx	For Bolt Size
11	22	22	1.5	2.4	4.6	0.5	M10
14	26	30	2	2.4	6.2	0.7	M12
18	32	36	2.5	2.4	7.6	0.8	M16
22	40	44	3	3.2	9.2	0.9	M20
(24)	44	50	3	3.2	10.0	1	(M22)
26	56	56	3	4.0	10.3	1	M24
(30)	56	56	3	4.0	10.8	1	(M27)
33	62	62	3	4.0	11.7	1.2	M30
(36)	68	68	3	4.0	12.6	1.2	(M33)
39	75	75	3	4.8	13.6	1.2	M36
(42)	80	80	3	4.8	14.2	1.2	(M39)

Note — Sizes shown within brackets are of second preference.

3. Material — The taper washers shall be made from any suitable low carbon steel.

Note — Suitable low carbon steels are indicated in IS:1570-1961 'Schedules for wrought steels for general engineering purposes'.

4. Grade — The taper washers shall conform to 'ordinary' grade specified in IS:5369-1975 'General requirements for plain washers and lock washers (first revision)'.

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5. Designation - Shall be designated by the name, size and the number of this standard.

Example:

A taper washer of nominal size 18 mm shall be designated as:

Taper Washer 18 IS : 5374

6. Sampling — The sampling and criteria for acceptance shall be in accordance with IS : 6821-1973 'Methods for sampling non-threaded fasteners'.

7. General Requirements — In regard to the requirements not covered in this standard, it shall conform to the requirements of 'ordinary' grade washers of IS : 5369-1975.

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

EXPLANATORY NOTE

This standard was first published in 1969. In the present revision the nominal size 'd' has been modified to the medium series of clearance holes given in IS : 1821-1967 'Dimensions for clearance holes for metric bolts (first revision)'. In the preparation of this standard considerable assistance has been derived from DIN 435-1970 Scheiben; vierkant, für I — Trager (Square taper washers for I-Sections) issued by Deutsches Institut für Normung (DIN).