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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

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Jawaharlal Nehru

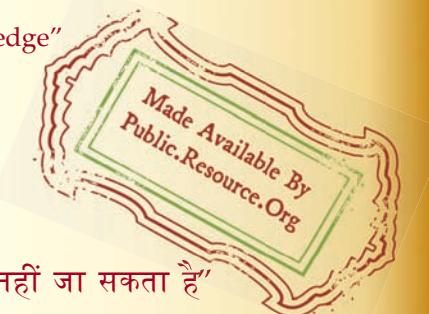
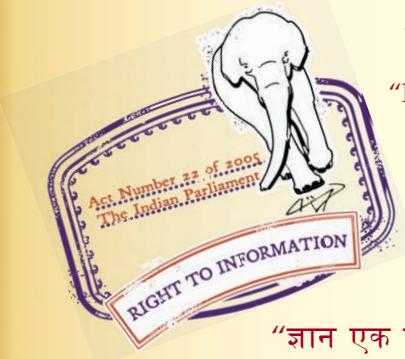
“Step Out From the Old to the New”

IS 1730 (1989): Dimensions for steel plates, sheets strips and flats for general engineering purposes [CED 7: Structural Engineering and structural sections]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



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

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

STEEL PLATES, SHEETS, STRIPS AND
FLATS FOR STRUCTURAL AND GENERAL
ENGINEERING PURPOSES — DIMENSIONS

(*Second Revision*)

भारतीय मानक

संरचना और सामान्य इंजीनियरिंग प्रयोजनों के लिए
उत्पात-प्लेटें, चद्दरें, पतिया तथा फ्लैट — आयाम

(दूसरा पुनरीक्षण)

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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
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FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards on 20 July 1989, after the draft finalized by the Structural Sections Sectional Committee had been approved by the Civil Engineering Division Council.

This standard was first published in 1961 covering steel plates, sheets and strips. On its first revision in 1974 it was published in three parts covering plates, sheets and strips separately.

Steel flats which were covered separately in IS 1731 was revised in 1971 on the basis of ISO/R 1035/3-1965. With the revision of this ISO recommendation in 1980, the revision of IS 1731 was also felt necessary. It has now been revised and amalgamated in this second revision of IS 1730, wherein the dimensions of flats have been aligned with ISO 1035/3-1980 'Hot rolled steel bars, Part 3 Dimensions of flats bars'. However, certain rationalized bar sections which are currently produced in the country have been retained in this specification.

Values of mass have been given in three significant figures.

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 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be same as that of the specified value in this standard.

Indian Standard

STEEL PLATES, SHEETS, STRIPS AND FLATS FOR STRUCTURAL AND GENERAL ENGINEERING PURPOSES — DIMENSIONS

(Second Revision)

1 SCOPE

1.1 This standard specifies nominal dimensions, nominal mass and surface area (for sheets) of hot-rolled steel plates, sheets, strips and flats for structural and general engineering purposes.

1.2 This standard is mainly intended to cover plates, sheets, strips and flats rolled from steel conforming to IS 226 : 1975 'Structural steel (standard quality) (fifth revision)', IS 961 : 1975 'Structural steel (high tensile) (second revision)', IS 1977 : 1975 'Structural steel (ordinary quality) (second revision)', IS 2062 : 1984 'Weldable structural steel (third revision)' and IS 8500 : 1977 'Weldable structural steel (medium and high strength qualities)'.

2 REFERENCES

2.1 The following Indian Standard is a necessary adjunct to this standard:

<i>IS No.</i>	<i>Title</i>
IS 1852 : 1985	Rolling and cutting tolerances for hot-rolled steel products (fourth revision)

3 DESIGNATION

3.1 Hot-rolled steel plates, sheets, strips and flats conforming to this standard shall be designated as under:

- a) Plates shall be designated as ISPL followed by figures denoting length (mm) × width (mm) × thickness (mm) of the plates.
- b) Sheets shall be designated as ISSH followed by figures denoting length (mm) × width (mm) × thickness (mm) of the sheet.
- c) Strips shall be designated as ISST followed by figures denoting width (mm) × thickness (mm) of the strip.
- d) Flats shall be designated by the width (mm) followed by letters ISF and the thickness (mm).

4 DIMENSIONS AND MASS OF PLATES

4.1 Thickness

The standard nominal thickness of plates shall be as given in Table 1.

4.2 Sizes

The standard nominal sizes of plates corresponding to the nominal thickness specified in Table 1 shall be given in Table 2.

4.3 Mass

The nominal mass for plates in kg/m is given in Table 3 for information.

5 DIMENSIONS AND MASS OF SHEETS

5.1 Thickness

The standard nominal thickness of sheets shall be as given in Table 4.

5.2 Sizes

The standard nominal size of sheets corresponding to nominal thickness specified in Table 4 shall be as given in Table 5. Surface area and mass of each sheets are also given in Table 5.

6 DIMENSIONS AND MASS OF STRIPS

6.1 Thickness

The standard nominal thickness of strips shall be as given in Table 6.

6.2 Sizes

The standard nominal sizes of the strips corresponding to nominal thickness specified in Table 6 shall be as given in Table 7. Mass of strips in kg/m are also given in Table 7.

7 DIMENSIONS AND MASS OF FLATS

7.1 The standard nominal thickness of flats shall be as given in Table 8.

7.2 Sizes

The standard nominal sizes of flats corresponding to the nominal thickness specified in Table 8 shall be as given in Table 9. Mass of flats are also given in Table 9.

7.2.1 Flats above 160 mm in width shall normally be supplied in round edges.

8 TOLERANCES

8.1 The rolling and cutting tolerances and mass tolerances for steel plates, sheets, strips and flats shall be as laid down in IS 1852 : 1985.

Table 1 Standard Nominal Thickness of Plate in mm
(Clauses 4.1 and 4.2)

5·0	10	18	28	45
6·0	12	20	32	50
7·0	14	22	36	56
8·0	16	25	40	63

Table 2 Standard Nominal Sizes of Plates
(Clause 4.2)

Width in mm	900	950	1 000	1 100	1 200	1 250	1 400	1 500	1 600	1 800	2 000	2 200	2 500
Length in mm	Maximum Standard Nominal Thickness in mm												
2 200	63	63	63	63	63	63	63	63	63	63	63	63	63
2 500	63	63	63	63	63	63	63	63	63	63	63	63	63
2 800	63	63	63	63	63	63	63	63	63	63	63	63	63
3 200	63	63	63	63	63	63	63	63	63	63	63	63	63
3 600	63	63	63	63	63	63	63	63	63	63	63	63	63
4 000	63	63	63	63	63	63	63	63	63	63	63	63	63
4 500	63	63	63	63	63	63	63	63	63	63	63	63	63
5 000	63	63	63	63	63	63	63	63	63	63	63	63	63
5 600	63	63	63	63	63	63	63	63	63	63	63	63	56
6 300	63	63	63	63	63	63	63	63	63	63	63	56	50
7 100	63	63	63	63	63	63	63	63	63	63	56	50	45
8 000	63	63	63	63	63	63	63	63	63	56	50	45	40
9 000	63	63	63	63	63	63	63	56	56	50	45	40	36
10 000	63	63	63	63	63	56	50	50	45	40	36	32	
11 000	63	63	63	63	56	50	50	45	40	36	32	28	
12 500	63	63	63	56	50	50	45	40	40	36	32	28	25
13 500	63	63	56	50	50	45	40	40	36	32	28	25	25

NOTE — This table gives the values of maximum standard nominal thicknesses for each combination of length and width. This means that any standard nominal thickness (see Table 1) less than the maximum thickness specified in this table is available for the particular length-width combination. For example, for a length-width combination of 12 500 × 1 600 mm, 40 mm is the maximum standard nominal thickness specified. By this, it should be understood that any standard nominal thickness in the range 5 to 40 mm is available in 12 500 × 1 600 mm size.

Table 3 Mass per Metre of Plates
(Clause 4.3)

Width in mm	900	950	1 000	1 100	1 200	1 250	1 400	1 500	1 600	1 800	2 000	2 200	2 500
Thickness in mm	Mass* per metre, kg												
5	35.3	37.3	39.2	43.2	47.1	49.1	55.0	58.9	62.8	70.6	78.5	86.4	98.1
6	42.4	44.7	47.1	51.8	56.5	58.9	66.0	70.6	75.4	84.8	94.2	104	118
7	49.4	52.2	55.0	60.4	66.0	68.7	76.9	82.4	87.9	98.9	110	121	137
8	56.5	59.7	62.8	69.1	75.4	78.5	87.9	94.2	100	113	126	138	157
10	70.6	74.6	78.5	86.4	94.2	98.1	110	118	126	141	157	173	196
12	84.8	89.5	94.2	104	113	118	132	141	151	170	188	207	236
14	98.9	104	110	121	132	137	154	165	176	198	220	242	275
16	113	119	126	138	151	157	176	188	201	226	251	276	314
18	127	134	141	155	170	177	198	212	226	254	283	311	353
20	141	149	157	173	188	196	220	236	251	283	314	345	392
22	155	164	173	190	207	316	242	259	276	311	345	380	432
25	177	186	196	216	236	245	275	294	314	353	392	432	491
28	198	209	220	242	264	275	308	330	352	396	440	484	550
32	226	239	251	276	301	314	352	377	402	452	502	553	628
36	254	268	283	311	339	353	396	424	452	509	565	621	706
40	283	298	314	345	377	392	440	471	502	585	628	691	785
45	318	336	353	389	424	441	495	530	565	634	706	777	883
50	353	373	392	432	471	491	550	589	628	706	785	864	981
56	396	418	440	584	528	550	615	659	703	791	879	967	1 079
63	445	470	495	544	593	618	692	742	791	890	789	1 088	1 236

*Based on density of steel = 7.85 g/cm³.

Table 4 Standard Nominal Thickness of Sheets in mm
(Clause 5.1)

0.40	0.80	1.12	1.60	2.00	2.80	4.00
0.50	0.90	1.25	1.80	2.24	3.15	4.30
0.63	1.00	1.40	1.90	2.50	3.55	4.65

**Table 5 Standard Nominal Dimensions and Mass of Sheet
(Clause 5.2)**

		Standard Nominal Thickness in mm	Mass* per Sheet in kg																				
Size mm × mm	Standard Nominal Surface Area in m²		0'40	0'50	0'63	0'80	0'90	1'00	1'12	1'25	1'40	1'60	1'80	1'90	2'00	2'24	2'50	2'80	3'15	3'55	4'00	4'30	4'65
1 800 × 600	1'08	3'39	4'24	5'34	6'78	7'65	8'47	9'50	10'6	11'9	13'6	15'3	16'1	17'0	19'0	21'2	23'7	26'7	30'1	33'9	36'4	39'4	
	750	1'35	4'24	5'30	6'67	8'48	9'54	10'6	11'9	13'2	14'8	17'0	19'1	20'1	21'2	23'7	26'5	29'7	33'4	37'6	42'4	46'6	49'3
	900	1'62	5'09	6'35	8'01	10'2	11'4	12'7	14'2	15'9	17'8	20'3	22'9	24'2	25'4	28'5	31'8	35'6	40'1	45'1	50'9	54'6	59'1
	950	1'71	5'37	6'71	8'45	10'7	12'1	13'4	15'0	16'8	18'8	21'5	24'2	25'5	26'8	30'1	33'6	37'6	42'3	47'7	53'7	57'7	62'4
	1 000	1'80	5'65	7'06	8'90	11'3	12'7	14'2	15'8	17'7	19'8	22'6	25'4	26'8	28'3	31'7	35'3	39'6	44'5	50'2	56'5	60'7	65'7
	1 100	1'98	6'22	7'77	9'79	12'4	14'0	15'6	17'4	19'4	21'8	24'9	28'0	29'5	31'1	34'8	38'9	43'5	49'0	55'2	62'2	66'8	72'3
	1 200	2'16	6'78	8'48	10'7	13'6	15'3	17'0	19'0	21'2	23'7	27'1	30'5	32'2	33'9	38'0	42'2	47'5	53'5	60'2	67'8	72'9	78'8
	1 250	2'25	7'07	8'83	11'1	14'1	15'9	17'6	19'8	22'1	24'7	28'3	31'8	33'6	35'3	39'6	44'2	49'5	55'6	62'7	70'6	76'0	82'1
	1 400	2'52	7'91	9'90	12'5	15'8	17'8	19'8	22'2	24'7	27'7	31'7	35'6	37'6	39'6	44'3	49'5	55'4	62'3	70'2	79'1	85'0	92'0
	1 500	2'70	8'48	10'6	13'4	17'0	19'1	21'2	23'8	26'5	29'7	33'9	38'2	40'2	42'4	47'5	53'0	59'3	66'8	75'2	84'8	91'0	98'5
2 000 × 600	1'20	3'77	4'71	5'93	7'53	8'47	9'42	10'6	11'8	13'2	15'1	17'0	17'9	18'8	21'1	23'6	26'4	29'7	33'4	37'7	40'5	43'8	
	750	1'50	4'71	5'88	7'42	9'42	10'6	11'8	13'2	14'7	16'5	18'8	21'2	22'4	23'6	26'4	29'4	33'0	37'1	41'8	47'1	50'6	54'7
	900	1'80	5'65	7'06	8'90	11'3	12'7	14'1	15'8	17'7	19'8	22'6	25'4	26'8	28'3	31'7	35'3	39'6	44'5	50'2	56'5	60'7	65'7
	950	1'90	5'97	7'45	9'39	12'0	13'4	14'9	16'8	17'9	20'8	23'6	26'8	28'3	29'8	33'4	37'2	41'7	47'0	52'9	57'6	64'1	69'3
	1 000	2'00	6'28	7'85	9'89	12'6	14'1	15'7	17'6	19'6	22'0	25'1	28'3	29'8	31'4	35'2	39'2	44'0	49'5	55'7	62'8	67'5	73'0
	1 100	2'20	6'91	8'63	10'9	13'8	15'5	17'3	19'3	21'6	24'2	27'6	31'1	32'8	34'5	38'7	43'2	48'4	54'4	61'3	69'1	74'3	80'3
	1 200	2'40	7'53	9'42	11'9	15'1	17'0	18'8	21'1	23'6	26'4	30'1	33'9	35'8	37'7	42'2	47'1	52'8	59'3	66'9	75'4	81'4	87'5
	1 250	2'50	7'85	9'80	12'4	15'7	17'7	19'6	22'0	24'5	27'5	31'4	35'3	37'2	39'2	44'0	49'1	55'0	61'8	69'7	78'5	84'3	91'2
	1 400	2'80	8'79	11'0	13'8	17'6	19'8	22'0	24'6	27'5	30'8	35'2	39'6	41'8	44'0	49'2	55'0	61'5	69'2	78'0	87'9	94'5	100'0
	2 500	3'00	9'42	11'8	14'8	18'8	21'2	23'6	26'4	29'4	33'0	37'7	42'2	44'7	47'1	52'8	58'9	65'9	74'2	83'6	94'2	101	109
2 200 × 600	1'32	4'14	5'18	6'52	8'28	9'32	10'4	11'6	13'0	14'5	16'6	18'7	19'7	20'7	23'2	25'9	29'0	32'6	36'8	41'4	44'5	48'2	
	750	1'65	5'18	6'47	8'16	10'4	11'7	13'0	14'5	16'2	18'1	20'7	23'3	24'6	25'9	29'0	32'4	36'3	40'8	46'0	51'8	55'7	60'2
	900	1'98	6'22	7'77	9'78	12'4	14'0	15'5	17'4	19'4	21'8	24'9	28'0	29'5	31'1	34'8	38'9	43'5	49'0	55'2	62'2	66'8	72'3
	950	2'09	6'56	8'20	10'3	13'1	14'8	16'4	18'4	20'5	23'0	26'2	29'5	31'2	32'8	36'8	41'0	45'9	51'6	58'2	65'6	70'5	76'3
	1 000	2'20	6'91	8'63	10'9	13'8	15'5	17'3	19'3	21'6	24'2	27'6	31'1	32'8	34'5	38'7	43'2	48'4	54'4	61'3	69'1	74'3	80'3
	1 100	2'42	7'60	9'50	12'0	15'2	17'1	19'0	21'3	23'7	26'6	30'4	34'2	36'1	38'0	42'6	47'5	53'2	59'8	67'4	76'0	81'7	88'3
	1 200	2'64	8'29	10'4	13'1	16'6	18'7	20'7	23'2	25'9	29'0	33'2	37'3	39'4	41'4	46'4	51'8	58'0	65'3	73'6	82'9	89'1	96'3
	1 250	2'75	8'63	10'8	13'6	17'3	19'4	21'6	24'2	27'9	30'2	34'5	38'9	41'0	43'2	48'4	54'0	60'4	68'0	76'6	86'4	92'7	100
	1 400	3'08	9'67	12'1	15'2	19'3	21'8	24'2	27'1	30'2	33'8	38'7	43'5	45'9	48'4	54'2	60'4	67'7	76'2	85'8	96'7	113	123
	1 500	3'30	10'4	13'0	16'3	20'7	23'3	25'9	29'0	32'4	36'3	41'4	46'6	49'2	51'8	58'0	64'8	72'5	81'6	92'0	104	111	120
2 500 × 600	1'50	4'71	5'88	7'42	9'42	10'6	11'8	13'2	14'7	16'5	18'8	21'2	22'4	23'6	26'4	29'4	33'0	37'1	41'8	47'1	50'6	54'7	
	750	1'875	5'88	7'35	9'26	11'8	13'2	14'7	16'5	18'4	20'6	23'6	26'5	27'9	29'4	33'0	36'8	41'2	46'4	52'3	58'9	63'2	68'4
	900	2'25	7'07	8'83	11'1	14'1	15'9	17'7	19'8	22'1	24'7	28'3	31'8	33'6	35'3	39'6	44'2	49'5	55'6	62'7	70'6	76'0	82'1
	950	2'375	7'45	9'32	11'7	14'9	16'8	18'6	20'9	23'3	26'1	29'8	33'6	35'4	37'2	41'7	46'6	52'2	58'7	66'1	74'5	80'2	86'6
	1 000	2'50	7'85	9'80	12'4	15'7	17'7	19'6	22'0	24'5	27'5	31'4	35'3	37'2	39'2	44'0	49'1	55'0	61'8	69'7	78'5	84'3	91'2
	1 100	2'75	8'63	10'8	13'6	17'3	19'4	21'6	24'2	27'0	30'2	34'5	38'9	41'0	43'2	48'4	54'0	60'4	68'0	76'6	86'4	92'7	100
	1 200	3'00	9'42	11'8	14'8	18'8	21'2	23'6	26'4	29'4	33'0	37'7	42'4	44'7	47'1	52'8	58'9	65'9	74'2	83'6	94'2	101	109
	1 250	3'125	9'81	12'3	15'5	19'6	22'1	24'5	27'5	30'7	34'3	39'2	44'2	46'6	49'1	55'0	61'3	68'7	77'3	87'1	98'1	105	114
	1 400	3'50	11'0	13'7	17'3	22'0	24'7	27'5	30'8	34'3	38'5	44'0	49'5	52'2	55'0	61'5	68'7	76'9	86'5	97'5	110	118	128
	1 500	3'75	11'8	14'7	18'5	23'6	26'5	29'4	33'0	36'8	41'2	47'1	53'0	55'8	58'9	65'9	73'6	82'4	92'7	104	118	126	137

2	800	600	1'68	5'38	6'60	8'30	10'6	11'9	13'2	14'8	16'5	18'5	21'1	23'7	25'2	26'4	29'5	33'0	36'9	41'5	46'8	52'8	56'7	61'3
	750	2'10	6'60	8'25	10'4	13'2	14'8	16'5	18'5	20'6	23'1	26'4	29'7	31'3	33'0	36'9	41'2	46'2	51'9	58'5	65'9	70'9	76'6	
	900	2'52	7'91	9'90	12'5	15'8	17'8	19'8	22'2	24'7	27'7	31'7	35'6	37'6	39'6	44'3	49'5	55'4	62'3	70'2	79'1	85'0	92'0	
	950	2'66	8'35	10'4	13'2	16'7	18'8	20'9	23'4	26'1	29'2	33'4	37'6	39'7	41'7	46'8	52'2	58'5	65'7	74'1	83'5	89'7	97'0	
	1000	2'80	8'79	11'0	13'8	17'6	19'8	22'0	24'6	27'5	30'8	35'2	39'6	41'8	44'0	49'2	55'0	61'5	69'2	78'0	87'9	94'5	100	
	1100	3'08	9'67	12'1	15'2	19'3	21'8	24'2	27'1	30'2	33'8	38'7	43'5	45'9	48'4	54'2	60'4	67'7	76'2	85'8	96'7	113	123	
	1200	3'36	10'6	13'2	16'6	21'1	23'7	26'4	29'5	33'0	36'9	42'2	47'5	50'0	52'8	59'1	65'9	73'9	83'1	93'6	106	113	123	
	1250	3'50	11'0	13'7	17'3	22'0	24'7	27'5	30'8	34'3	38'5	44'0	49'5	52'2	55'0	61'5	68'7	76'9	86'5	97'5	110	118	128	
	1400	3'92	12'3	15'4	19'4	24'6	27'7	30'8	34'5	38'5	43'1	49'2	55'4	59'3	61'5	68'9	76'9	86'2	96'9	109	123	134	145	
	1500	4'20	13'2	16'5	20'8	26'4	29'7	33'0	36'9	41'2	46'2	52'8	59'3	62'6	65'9	73'9	82'4	92'3	104	117	132	142	153	
3	2000	600	1'92	6'03	7'53	9'50	12'1	13'6	15'1	16'9	18'8	21'1	24'1	27'1	28'6	30'1	33'8	37'7	42'2	47'5	53'5	60'3	64'8	70'0
	750	2'40	7'53	9'42	11'9	15'1	17'0	18'8	21'1	23'6	26'4	30'1	33'9	35'8	37'7	42'2	47'1	52'8	59'3	66'9	75'4	81'0	87'5	
	900	2'88	9'04	11'3	14'2	18'1	20'3	22'6	25'3	28'3	31'7	36'2	40'7	42'9	45'2	50'6	56'5	63'3	71'2	80'3	90'4	97'2	105	
	950	3'04	9'5	11'9	15'0	19'1	21'4	23'8	26'0	29'8	33'4	38'2	42'9	45'3	47'7	53'5	59'6	66'8	75'1	84'7	95'5	103	111	
	1000	3'20	10'0	12'6	15'8	20'1	22'6	25'1	28'1	31'4	35'2	40'2	45'2	47'7	50'2	56'3	62'8	70'3	79'1	89'2	100	108	117	
	1100	3'52	11'1	13'8	17'4	22'1	24'9	27'6	30'9	34'5	38'7	44'2	49'7	52'5	55'3	61'9	69'1	77'4	87'0	98'1	110	119	128	
	1200	3'84	12'1	15'1	19'0	24'1	27'1	30'1	33'8	37'7	42'2	48'2	54'3	57'3	60'3	67'5	75'4	84'4	95'0	107	121	110	140	
	1250	4'00	12'6	15'7	19'8	25'1	28'3	31'4	35'2	39'2	44'0	50'2	56'5	59'6	62'8	70'3	78'5	87'9	98'9	111	126	135	146	
	1400	4'48	14'1	17'6	22'2	28'1	31'7	35'2	39'4	44'0	49'2	56'3	63'3	66'8	70'3	78'8	87'9	98'5	111'5	125	141	151	163	
	1500	4'80	15'1	18'8	23'7	30'1	33'9	37'7	42'2	47'1	52'8	60'3	67'8	71'6	75'4	84'4	94'2	105	119	134	151	162	175	
5	3600	600	2'16	6'78	8'48	10'7	13'6	15'3	17'0	19'0	21'2	23'7	27'1	30'5	32'2	33'9	38'0	42'4	47'5	53'4	60'2	67'8	72'9	78'8
	750	2'70	8'48	10'6	13'4	17'0	19'1	21'2	23'7	26'5	29'7	33'9	38'2	40'2	42'4	47'5	53'0	59'3	66'8	75'2	84'8	91'0	98'5	
	900	3'24	10'2	12'7	16'0	20'3	22'9	25'4	28'5	31'8	35'6	40'7	45'8	48'3	50'9	57'0	63'6	71'2	80'1	90'3	102	109	118	
	950	3'42	10'7	13'4	16'9	21'5	24'2	26'8	30'0	33'5	27'6	42'9	48'3	51'0	53'7	60'1	67'0	75'1	84'5	95'2	110	115	125	
	1000	3'60	11'3	14'1	17'8	22'6	25'4	28'3	31'7	35'3	39'6	45'2	50'9	53'7	56'5	63'3	70'6	79'1	89'0	100	113	121	131	
	1100	3'96	12'4	15'5	19'6	24'9	28'0	31'1	34'8	38'9	43'5	49'7	56'0	59'0	62'2	69'6	77'7	87'0	97'9	110	124	134	144	
	1200	4'32	13'6	17'0	21'4	27'1	30'5	33'9	38'0	42'4	47'5	54'3	61'0	64'4	67'8	76'0	84'8	95'0	107	120	136	146	158	
	1250	4'50	14'1	17'7	22'3	28'3	31'8	35'3	39'6	44'2	49'5	56'5	63'6	67'0	70'6	79'1	88'3	98'9	111	125	141	152	164	
	1400	5'04	15'8	19'8	24'9	31'7	35'6	39'6	44'3	49'5	55'4	63'3	71'2	75'0	79'1	88'6	98'9	111	125	140	158	170	184	
	1500	5'40	17'0	21'2	36'7	33'9	38'2	42'4	47'5	53'0	59'3	67'8	76'3	80'4	84'8	95'0	106	119	134	150	170	182	197	
4	4000	600	2'40	7'53	9'41	11'9	15'1	17'0	18'8	21'1	23'6	26'4	30'1	33'9	35'8	37'7	42'2	47'1	52'8	59'3	66'9	75'4	81'0	87'5
	750	3'00	9'42	11'8	14'8	18'8	21'2	23'6	26'4	29'4	33'0	37'7	42'4	44'7	47'1	52'8	58'9	65'9	74'2	83'6	94'2	101	109	
	900	3'60	11'3	14'1	17'8	22'6	25'4	28'3	31'7	35'3	39'6	45'2	50'9	53'7	56'5	63'3	70'6	79'1	89'0	100	113	121	131	
	950	3'80	11'9	14'9	18'8	23'8	26'8	29'8	33'4	37'2	41'7	47'7	53'7	56'6	59'6	66'8	74'5	83'5	93'7	106	119	128	139	
	1000	4'00	12'6	15'7	19'8	25'1	28'3	31'4	35'2	39'2	44'0	50'2	56'5	59'6	62'8	70'3	78'5	87'9	98'9	112	126	135	146	
	1100	4'40	13'8	17'3	21'8	27'6	31'1	34'5	38'7	43'2	48'4	55'3	62'2	65'6	69'1	77'4	86'4	96'7	109	123	138	148	160	
	1200	4'80	15'1	18'8	23'7	30'1	33'9	37'7	42'2	47'1	52'8	60'3	67'8	71'6	75'4	84'4	94'2	106	119	134	151	162	176	
	1250	5'00	15'7	19'6	24'7	31'4	35'3	39'2	44'0	49'1	55'0	62'8	70'6	74'6	78'5	87'5	98'1	110	124	139	157	169	186	
	1400	5'60	17'6	22'0	27'7	35'2	39'6	44'0	49'2	55'0	61'5	70'3	79'1	83'5	87'9	98'6	111	123	138	156	176	189	204	
	1500	6'00	18'8	23'6	29'7	37'7	42'4	47'1	52'8	58'9	65'9	75'4	84'8	89'4	94'2	106	118	132	148	167	188	202	218	

*Based on density of steel = 7.85 gm/cm³.

**Table 6 Standard Nominal Thickness of Strips in mm
(Clause 6.1)**

1.60	2.24	3.15	4.50	8.00
1.80	2.50	3.65	5.00	10.00
2.00	2.80	4.00	6.00	

**Table 7 Standard Nominal Dimensions and Mass of Strip
(Clause 6.2)**

Thickness in mm	1.60	1.80	2.00	2.24	2.50	2.80	3.15	3.55	4.00	4.50	5.0	6.0	8.0	10.0
Width in mm	Mass* in kg/m													
100	1.25	1.41	1.57	1.76	1.96	2.20	2.47	2.79	3.14	3.53	3.92	4.71	6.28	7.85
125	1.57	1.77	1.96	2.20	2.45	2.74	3.08	3.48	3.92	4.41	4.90	5.88	7.85	9.81
160	2.01	2.26	2.51	2.81	3.14	3.52	3.95	4.46	5.02	5.65	6.28	7.53	10.0	12.6
200	2.51	2.82	3.14	3.52	3.92	4.39	4.94	5.58	6.28	7.06	7.84	9.42	12.6	15.7
250	3.14	3.53	3.92	4.40	4.90	5.49	6.17	6.97	7.85	8.83	9.80	11.8	15.7	16.6
320	4.02	4.52	5.02	5.62	6.28	7.05	7.90	8.92	10.0	11.3	12.5	15.1	20.0	25.1
400	5.02	5.65	6.28	7.04	7.85	8.78	9.88	11.1	12.6	14.1	15.7	18.8	25.1	31.4
500	6.28	7.05	7.85	8.79	9.51	11.0	12.4	13.9	15.7	17.7	19.6	23.6	31.4	39.2
650	8.16	9.17	10.2	11.4	12.7	14.3	16.1	18.1	20.4	23.0	25.5	30.6	40.8	51.0
800	10.0	11.3	12.6	14.1	15.7	17.6	19.8	22.3	25.1	28.3	31.4	37.7	50.2	62.8
950	—	13.4	14.9	16.7	18.6	20.8	23.5	26.5	29.8	33.6	37.3	44.7	59.7	74.6
1 000	—	—	15.7	17.6	19.6	22.0	24.7	27.9	31.4	35.3	39.2	47.1	62.8	78.5
1 050	—	—	16.5	18.5	20.6	23.3	26.0	29.2	33.0	37.1	41.2	49.5	65.9	82.4
1 150	—	—	—	20.2	22.6	25.2	28.4	32.0	36.1	40.6	45.1	54.2	72.2	90.3
1 250	—	—	—	—	24.5	27.5	30.9	34.8	39.2	44.2	49.1	58.9	78.5	98.1
1 300	—	—	—	—	—	28.6	32.1	36.2	40.8	45.9	51.0	61.2	81.6	102
1 450	—	—	—	—	—	—	35.8	40.4	45.5	51.2	56.9	68.3	91.1	114
1 550	—	—	—	—	—	—	38.3	43.2	48.7	54.7	60.8	73.0	93.3	122

*Based on density of steel = 7.85 g/cm³.

**Table 8 Standard Nominal Thickness of Flats in mm
(Clauses 7.1 and 7.2)**

3.0	5.0	8.0	12.0	20.0	30.0	50.0
4.0	6.0	10.0	15.0	25.0	40.0	

**Table 9 Dimensions and Mass of Hot Rolled Steel Flats
(Clause 7.2)**

Width mm	Mass*, kg/m for Varying (mm) Thickness													
	3	4	5	6	8	10	12	15	20	25	30	40	50	
10	0.236	0.314	0.393	0.471	—	—	—	—	—	—	—	—	—	
16	0.377	0.502	0.628	0.754	1.00	1.10	1.51	—	—	—	—	—	—	
20	0.471	0.628	0.785	0.942	1.26	1.57	1.88	2.30	—	—	—	—	—	
25	0.589	0.785	0.981	1.18	1.57	1.96	2.36	2.94	—	—	—	—	—	
30	0.707	0.942	1.18	1.41	1.88	2.36	2.83	3.53	4.71	—	—	—	—	
35	0.824	1.10	1.37	1.65	2.20	2.75	3.30	4.12	5.50	—	—	—	—	
40	0.942	1.26	1.57	1.88	2.51	3.14	3.77	4.71	6.28	7.85	9.42	—	—	
45	1.06	1.41	1.77	2.12	2.83	3.53	4.24	5.30	7.07	8.83	10.6	—	—	
50	1.18	1.57	1.96	2.36	3.14	3.93	4.71	5.89	7.85	9.81	11.8	—	—	
60	1.41	1.88	2.36	2.83	3.77	4.71	5.65	7.07	9.42	11.8	14.1	18.8	—	
65	—	2.04	2.55	3.06	4.08	5.10	6.12	7.65	10.2	12.8	15.3	20.4	—	
70	—	2.20	2.75	3.30	4.40	5.50	6.59	8.24	11.0	13.7	16.5	22.0	—	
75	—	2.36	2.94	3.53	4.71	5.89	7.07	8.83	11.8	14.7	17.7	23.6	—	
80	—	2.51	3.14	3.77	5.02	6.28	7.54	9.42	12.6	15.7	18.8	25.1	31.4	
90	—	—	3.53	4.24	5.65	7.07	8.48	10.6	14.1	17.7	21.2	28.3	35.3	
100	—	—	3.93	4.71	6.28	7.85	9.42	11.8	15.7	19.6	23.6	31.4	39.2	
120	—	—	—	5.65	7.54	9.42	11.3	14.1	18.8	23.6	28.3	37.7	47.1	
130	—	—	—	6.12	8.16	10.2	12.2	15.3	20.4	25.6	30.6	40.8	51.2	
140	—	—	—	6.59	8.79	11.0	13.2	16.5	22.0	27.5	33.0	44.0	55.0	
150	—	—	—	7.07	9.42	11.8	14.1	17.7	23.6	29.4	35.3	47.1	58.9	
160	—	—	—	—	10.0	12.6	15.1	18.8	25.1	31.4	37.7	50.2	—	
180	—	—	—	—	11.3	14.1	17.0	21.2	28.3	35.3	42.4	56.5	—	
200	—	—	—	—	—	15.7	18.8	23.6	31.4	39.2	47.1	62.8	—	
250	—	—	—	—	—	19.6	23.6	29.4	39.2	49.1	58.9	78.5	—	
300	—	—	—	—	—	—	28.3	35.3	47.1	58.8	70.7	94.2	—	
400	—	—	—	—	—	—	—	47.1	62.8	78.5	94.2	126	—	

*Based on density of steel=7.85 gm/cm³.

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