
International Standard



657/15

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**Hot-rolled steel sections —
Part 15 : Sloping flange beam sections (Metric series) —
Dimensions and sectional properties**

Profilés en acier laminés à chaud — Partie 15 : Poutrelles à ailes inclinées (Série métrique) — Dimensions et caractéristiques rapportées aux axes

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 657/15 (formerly ISO/DIS 4971) was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in October 1977.

It has been approved by the member bodies of the following countries :

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Czechoslovakia	Sweden
Hungary	USA
Spain	USSR

Hot-rolled steel sections — Part 15 : Sloping flange beam sections (Metric series) — Dimensions and sectional properties

1 Scope and field of application

This International Standard specifies dimensions and sectional properties of metric series hot-rolled steel sloping flange beam sections.

2 Designation

Sloping flange beam sections shall be designated by the letters

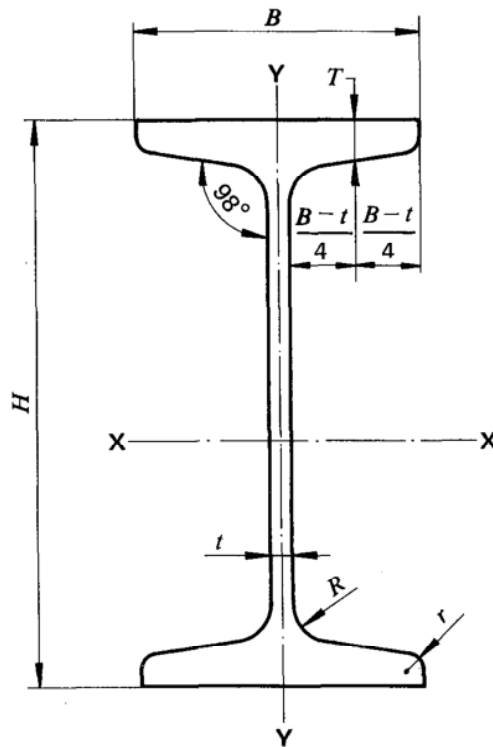
SB followed by the depth and mass per metre.

Example : SB 160 × 18

3 Dimensions and sectional properties

The dimensions and sectional properties of sloping flange beam sections are given in the table.

Table — Dimensions and sectional properties of hot-rolled steel sloping flange beam sections (Metric series)



Designation	Mass <i>M</i> kg/m	Sectional area <i>A</i> cm ²	Dimensions						Sectional properties about axes					
			<i>H</i> mm	<i>B</i> mm	<i>T</i> mm	<i>t</i> mm	<i>R</i> [*] mm	<i>r</i> [*] mm	X - X			Y - Y		
									<i>I_x</i> cm ⁴	<i>Z_x</i> cm ³	<i>r_x</i> cm	<i>I_y</i> cm ⁴	<i>Z_y</i> cm ³	<i>r_y</i> cm
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
SB 80 × 6	6,03	7,69	80	40	6,0	4,0	6,0	3,0	77,7	19,4	3,18	5,65	2,82	0,857
SB 100 × 8	8,57	10,9	100	50	6,8	4,5	7,0	3,5	175	35,0	4,01	12,3	4,93	1,06
SB 120 × 12	11,5	14,7	120	60	7,6	5,0	8,0	4,0	342	57,0	4,83	23,5	7,84	1,27
SB 140 × 15	14,8	18,8	140	70	8,4	5,5	8,0	4,0	603	86,2	5,66	41,2	11,8	1,48
SB 160 × 18	18,5	23,6	160	80	9,2	6,0	9,0	4,5	993	124	6,49	66,7	16,7	1,68
SB 180 × 23	22,7	28,9	180	90	10,0	6,5	10,0	5,0	1 540	172	7,31	103	22,8	1,89
SB 200 × 27	27,2	34,6	200	100	10,8	7,0	11,0	5,5	2 300	230	8,14	151	30,2	2,09
SB 220 × 32	32,1	40,8	220	110	11,6	7,5	11,0	5,5	3 290	299	8,77	216	39,2	2,30
SB 240 × 36	36,4	46,3	240	120	12,0	7,8	12,0	6,0	4 450	371	9,81	286	47,7	2,49
SB 250 × 38	38,4	49,0	250	125	12,2	7,9	12,0	6,0	5 130	410	10,2	328	52,4	2,56
SB 270 × 41	41,3	52,6	270	125	12,7	8,2	13,0	6,5	6 340	470	11,0	343	54,9	2,55
SB 300 × 46	45,8	58,4	300	130	13,2	8,5	13,0	6,5	8 620	574	12,2	402	61,8	2,62
SB 350 × 56	58,8	71,1	350	140	14,6	9,1	15,0	7,5	14 200	812	14,1	556	79,5	2,80
SB 400 × 66	65,5	83,5	400	150	15,5	9,7	16,0	8,0	21 600	1 080	16,1	725	96,7	2,95
SB 450 × 76	76,1	96,9	450	160	16,5	10,3	16,0	8,0	31 400	1 400	18,0	940	117	3,11
SB 500 × 91	91,2	116,0	500	170	18,7	11,0	19,0	9,5	46 600	1 870	20,0	1 290	151	3,33
SB 550 × 107	107	136,0	550	180	20,4	12,0	20,0	10,0	65 700	2 390	21,9	1 680	186	3,51
SB 600 × 131	131	167,0	600	210	22,1	13,0	22,0	11,0	97 500	3 250	24,1	2 850	271	4,13

* The fillet and toe radii (*R* and *r*) are given only for information and for calculating the properties of the sections.