
International Standard



657/15

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

**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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ISO 657-15:1980

<https://standards.iteh.ai/catalog/standards/sist/79fec796-234d-4a53-b839-7a01c1c299be/iso-657-15-1980>

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

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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Austria	Germany, F.R.	Norway
Belgium	India	Philippines
Bulgaria	Iran	Poland
Canada	Italy	Romania
Chile	Korea, Dem. P. Rep. of	South Africa, Rep. of
Denmark	Korea, Rep. of	Switzerland
Egypt, Arab Rep. of	Mexico	Turkey
France	Netherlands	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia	Sweden
Hungary	USA
Spain	USSR

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

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1 Scope and field of application

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

SB followed by the depth and mass per metre.

[ISO 657-15:1980](#)

Example SB 160 x 818-

[ISO 657-15-1980](#)

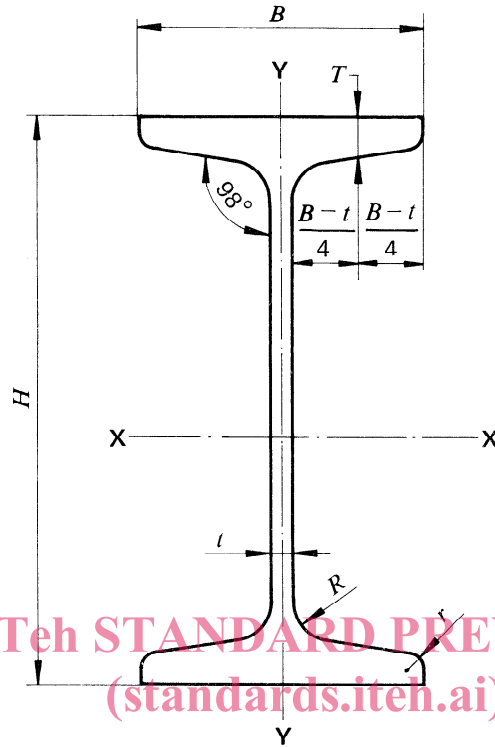
2 Designation

Sloping flange beam sections shall be designated by the letters

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)



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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.