
International Standard



657/21

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

Hot-rolled steel sections — Part 21: T-sections with equal depth and flange width — Dimensions

Profilés en acier laminés à chaud. — Partie 21: Profilés en T à ailes de même profondeur et de même largeur de face — Dimensions

First edition — 1983-10-15

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UDC 669.14-423.4

Ref. No. ISO 657/21-1983 (E)

Descriptors : iron and steel products, hot rolled products, metal sections, dimensions, sectional properties.

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 657/21 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in September 1982.

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

Australia	India	Poland
Austria	Iran	South Africa, Rep. of
Belgium	Ireland	Spain
Brazil	Italy	Sweden
Bulgaria	Kenya	Tanzania
China	Korea, Dem. P. Rep. of	Turkey
Czechoslovakia	Korea, Rep. of	United Kingdom
Egypt, Arab Rep. of	Netherlands	USA
Germany, F.R.	New Zealand	
Hungary	Norway	

The member body of the following country expressed disapproval of the document on technical grounds:

France

Hot-rolled steel sections — Part 21: T-sections with equal depth and flange width — Dimensions

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1 Scope and field of application

ISO 657-21:1983

This International Standard specifies dimensions of the hot-rolled tee sections with equal depth and flange width.

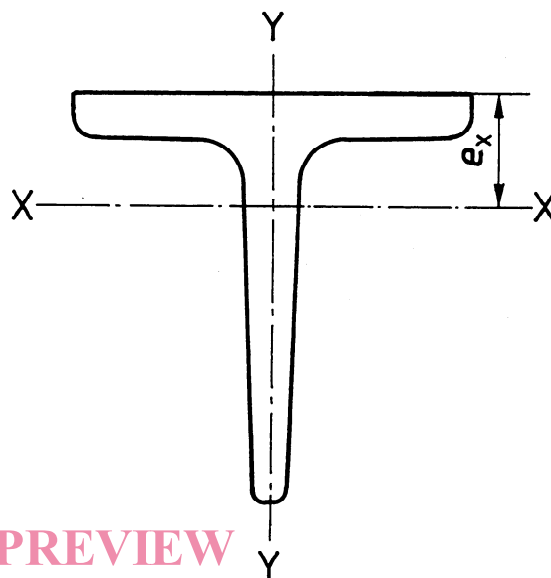
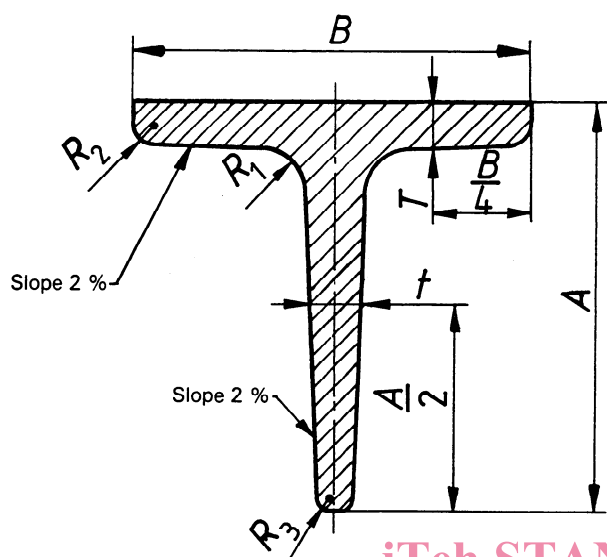
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2 Dimensions

The dimensions of the sections are given in the table.

3 Sectional properties

The mass, sectional area and properties of the sections are given for information in the table.



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Table — Hot-rolled steel tee sections with equal depth and flange width — Dimensions and sectional properties

Designation	Area of cross-section	Mass	Dimensions							Location of centre of gravity e_x	Sectional properties about axes					
			A	B	T	t	R_1	R_2	R_3		X - X			Y - Y		
	cm ²	kg/m	mm	mm	mm	mm	mm	mm	mm	cm	I_x	Z_x	r_x	I_y	Z_y	r_y
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
T 20 × 20	1,12	0,88	20	20	3	3	3	1,5	1	0,58	0,38	0,27	0,58	0,20	0,20	0,42
T 25 × 25	1,64	1,29	25	25	3,5	3,5	3,5	2	1	0,73	0,87	0,49	0,73	0,43	0,34	0,51
T 30 × 30	2,26	1,77	30	30	4	4	4	2	1	0,85	1,72	0,80	0,87	0,87	0,58	0,62
T 35 × 35	2,97	2,33	35	35	4,5	4,5	4,5	2,5	1	0,99	3,10	1,23	1,04	1,57	0,90	0,73
T 40 × 40	3,77	2,96	40	40	5	5	5	2,5	1	1,12	5,28	1,84	1,18	2,58	1,29	0,83
T 45 × 45	4,67	3,67	45	45	5,5	5,5	5,5	3	1,5	1,26	8,13	2,51	1,32	4,01	1,78	0,93
T 50 × 50	5,66	4,44	50	50	6	6	6	3	1,5	1,39	12,1	3,36	1,46	6,06	2,42	1,03
T 60 × 60	7,94	6,23	60	60	7	7	7	3,5	2	1,66	23,8	5,48	1,73	12,2	4,07	1,24
T 70 × 70	10,6	8,32	70	70	8	8	8	4	2	1,94	44,5	8,79	2,05	22,1	6,32	1,44
T 75 × 75	11,6	9,08	75	75	8	8	8	4,5	2,0	2,14	60,5	11,3	2,29	28,1	7,49	1,56
T 80 × 80	13,6	10,7	80	80	9	9	9	4,5	2	2,22	73,7	12,8	2,33	37,0	9,25	1,65
T 90 × 90	17,1	13,4	90	90	10	10	10	5	2,5	2,48	119	18,2	2,64	58,5	13,0	1,85
T 100 × 100	20,9	16,4	100	100	11	11	11	5,5	3	2,74	179	24,6	2,92	88,3	17,7	2,05
T 120 × 120	29,6	23,2	120	120	13	13	13	6,5	3	3,28	366	42,0	3,51	178	29,7	2,45
T 140 × 140	39,9	31,3	140	140	15	15	15	7,5	4	3,80	660	64,7	4,07	330	47,2	2,88