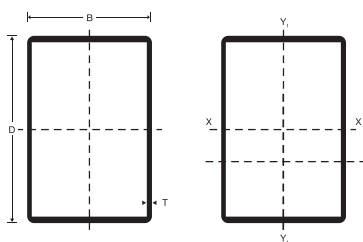


ΕΛΑΣΤΡΟΝ

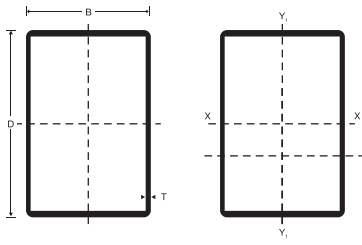
ΧΑΛΥΒΟΥΡΓΙΚΑ ΠΡΟΪΟΝΤΑ

ΟΡΘΟΓΩΝΙΚΕΣ ΚΟΙΛΕΣ ΔΙΑΤΟΜΕΣ (EN 10219)



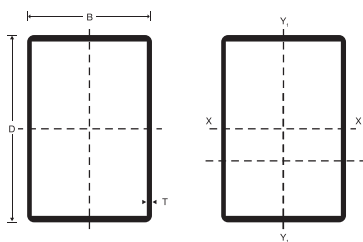
Διαστάσεις		Τομή	Βάρος	Στατικά μεγέθη					
D x B (mm)	T (mm)	F (cm ²)	G (kg/m)	I _x (cm ⁴)	I _y (cm ⁴)	R _x (cm)	I _y (cm)	W _x (cm ³)	W _y (cm ³)
30 x 20	1,0	0,88	0,69	1,12	0,60	1,13	0,83	0,75	0,60
	1,2	1,13	0,89	1,30	0,70	1,07	0,78	0,86	0,70
	1,5	1,28	1,00	1,53	0,82	1,09	0,80	1,02	0,82
	2,0	1,86	1,46	1,84	0,98	1,00	0,73	1,23	0,98
	2,5	2,30	1,81	2,07	1,10	0,95	0,69	1,38	1,10
40 x 20	1,0	1,12	0,88	2,28	0,78	1,43	0,84	1,14	0,78
	1,2	1,33	1,05	2,68	0,91	1,42	0,83	1,34	0,91
	1,5	1,68	1,32	3,16	1,07	1,37	0,80	1,58	1,07
	2,0	2,10	1,65	3,91	1,31	1,36	0,79	1,96	1,31
	2,5	2,52	1,98	4,43	1,49	1,33	0,77	2,21	1,49
45 x 25	1,0	1,32	1,04	3,55	1,44	1,64	1,05	1,58	1,15
	1,2	1,56	1,22	4,15	1,68	1,63	1,04	1,84	1,34
	1,5	1,95	1,53	4,98	2,01	1,60	1,01	2,21	1,61
	2,0	2,45	1,92	6,18	2,48	1,59	1,01	2,75	1,99
	2,5	3,06	2,40	7,19	2,88	1,53	0,97	3,19	2,30
40 x 30	1,0	1,32	1,04	3,04	1,96	1,52	1,22	1,52	1,31
	1,2	1,56	1,22	3,56	2,29	1,51	1,21	1,78	1,53
	1,5	1,95	1,53	4,27	2,75	1,48	1,19	2,13	1,83
	2,0	2,45	1,92	5,31	3,41	1,47	1,18	2,66	2,28
	2,5	3,06	2,40	6,19	3,97	1,42	1,14	3,09	2,65
	3,0	3,67	2,88	6,90	4,42	1,37	1,10	3,45	2,95
50 x 30	1,0	1,49	1,17	5,21	2,39	1,87	1,27	2,08	1,59
	1,2	1,81	1,42	6,14	2,8	1,84	1,24	2,46	1,87
	1,5	2,23	1,75	7,36	3,36	1,82	1,23	2,94	2,24
	2,0	2,90	2,28	9,32	4,21	1,79	1,20	3,73	2,81
	2,5	3,52	2,76	10,85	4,92	1,76	1,18	4,34	3,28
	3,0	4,08	3,20	12,22	5,52	1,73	1,16	4,89	3,68
50 x 40	1,2	2,03	1,59	7,53	5,36	1,93	1,63	3,01	2,26
	1,5	2,51	1,97	9,13	6,49	1,91	1,61	3,65	3,25
	2,0	3,28	2,57	11,54	8,20	1,88	1,58	4,62	4,10
	2,5	3,98	3,12	13,68	9,71	1,85	1,56	5,47	4,85
	3,0	4,54	3,56	15,54	11,02	1,85	1,56	6,22	5,51
	4,0	5,90	4,63	18,52	13,12	1,77	1,49	7,41	6,56

ΟΡΘΟΓΩΝΙΚΕΣ ΚΟΙΛΕΣ ΔΙΑΤΟΜΕΣ (EN 10219)



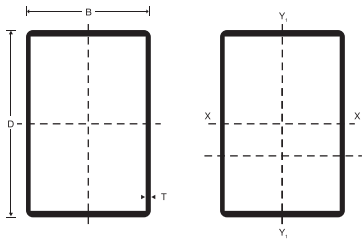
Διαστάσεις		Τομή	Βάρος	Στατικά μεγέθη					
D x B (mm)	T (mm)	F (cm ²)	G (kg/m)	I _x (cm ⁴)	I _y (cm ⁴)	R _x (cm)	I _y (cm)	W _x (cm ³)	W _y (cm ³)
60 x 20	1,2	1,81	1,42	7,47	1,33	2,03	0,86	2,49	1,33
	1,5	2,23	1,75	8,99	1,59	2,01	0,84	3,00	1,59
	2,0	2,90	2,28	11,24	1,96	1,97	0,82	3,75	1,96
	2,5	3,52	2,76	13,14	2,26	1,93	0,80	4,38	2,26
60 x 30	1,2	2,03	1,59	9,55	3,29	2,17	1,27	3,18	2,19
	1,5	2,51	1,97	11,56	3,97	2,15	1,26	3,85	2,65
	2,0	3,28	2,57	14,60	4,98	2,11	1,23	4,87	3,32
	2,5	3,98	3,12	17,27	5,86	2,08	1,21	5,76	3,91
	3,0	4,54	3,56	19,58	6,62	2,08	1,21	6,53	4,41
60 x 40	4,0	5,90	4,63	23,20	7,80	1,98	1,15	7,73	5,20
	1,2	2,22	1,74	11,62	6,27	2,29	1,68	3,87	3,13
	1,5	2,89	2,27	14,13	7,61	2,21	1,62	4,71	3,80
	2,0	3,70	2,91	18,1	9,69	2,21	1,62	6,03	4,75
	2,5	4,51	3,54	21,41	11,47	2,18	1,59	7,14	5,73
	3,0	5,28	4,14	24,46	13,08	2,15	1,57	8,15	6,54
70 x 30	4,0	6,81	5,35	29,7	15,7	2,09	1,52	9,91	7,86
	1,5	2,82	2,21	17,02	4,58	2,46	1,27	4,86	3,05
	2,0	3,70	2,90	21,61	5,77	2,42	1,25	6,17	3,85
	2,5	4,51	3,54	25,69	6,81	2,39	1,23	7,34	4,54
80 x 20	3,0	5,29	4,15	29,28	7,72	2,35	1,21	8,37	5,15
	1,5	2,82	2,21	19,27	2,10	2,61	0,86	4,82	2,10
	2,0	3,70	2,90	24,37	2,61	2,57	0,84	6,09	2,61
80 x 40	2,5	4,51	3,54	28,84	3,03	2,53	0,82	7,21	3,03
	1,5	3,42	2,68	28,52	9,83	2,89	1,70	7,13	4,92
	2,0	4,50	3,53	36,8	12,6	2,86	1,67	9,20	6,29
	2,5	5,52	4,33	43,86	14,99	2,82	1,65	10,97	7,49
	3,0	6,49	5,09	50,51	17,19	2,79	1,63	12,63	8,60
	4,0	8,41	6,60	62,6	20,9	2,73	1,58	15,6	10,5
100 x 20	5,0	10,10	7,96	71,6	23,7	2,66	1,43	17,9	11,9
	1,5	3,42	2,68	35,19	2,62	3,21	0,87	7,04	2,62
	2,0	4,50	3,53	44,86	3,26	3,16	0,85	8,97	3,26
	2,5	5,52	4,33	53,55	3,80	3,11	0,83	10,71	3,80

ΟΡΘΟΓΩΝΙΚΕΣ ΚΟΙΛΕΣ ΔΙΑΤΟΜΕΣ (EN 10219)

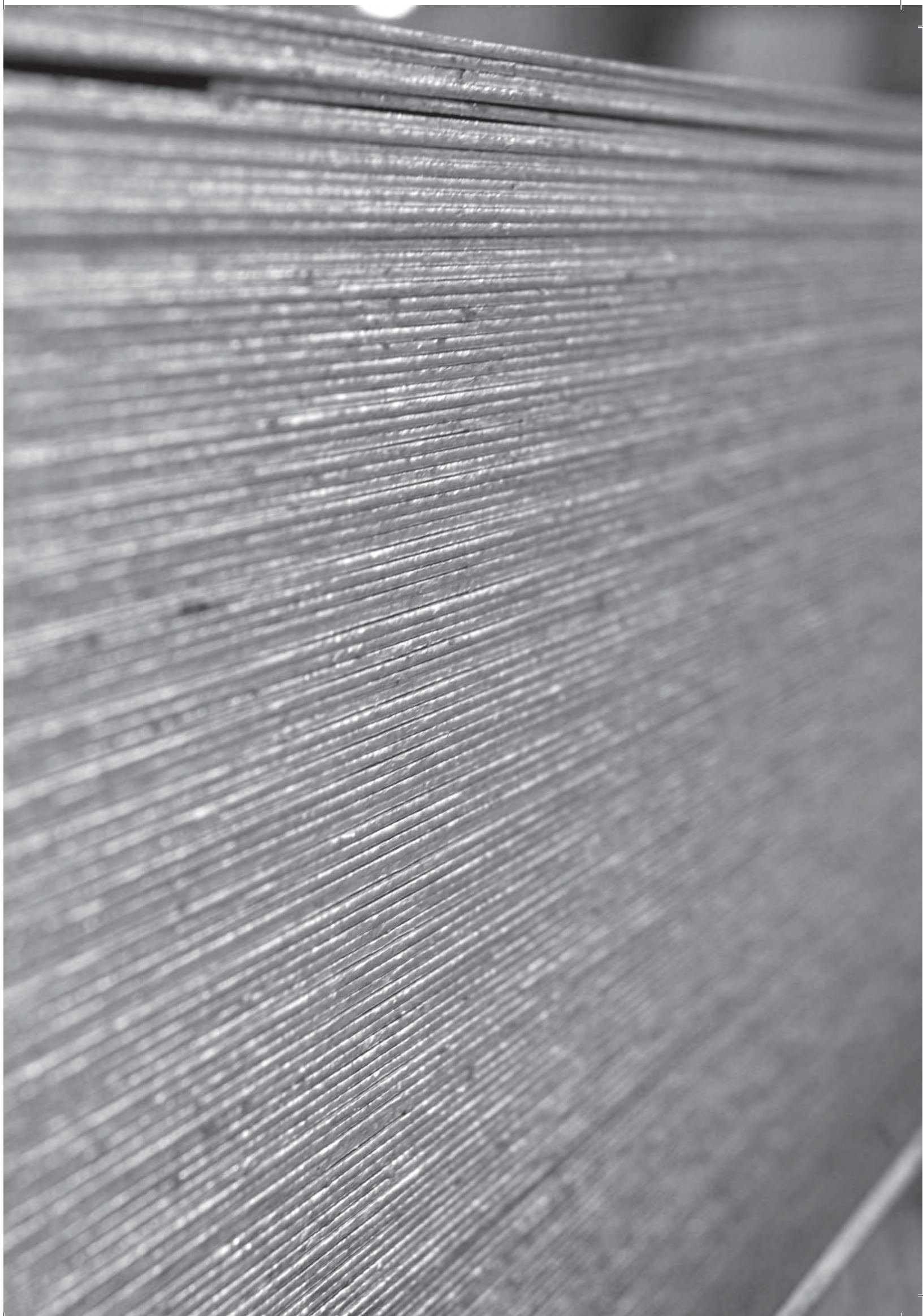


Διαστάσεις		Τομή	Βάρος	Στατικά μεγέθη					
D x B (mm)	T (mm)	F (cm ²)	G (kg/m)	I _x (cm ⁴)	I _y (cm ⁴)	R _x (cm)	I _y (cm)	W _x (cm ³)	W _y (cm ³)
100 x 40	2,0	5,30	4,16	64,07	15,43	3,48	1,71	12,81	7,72
	2,5	6,52	5,12	77,32	18,51	3,44	1,68	15,46	9,26
	3,0	7,69	6,04	89,53	21,33	3,41	1,66	17,91	10,66
	4,0	10,00	7,85	110,93	26,13	3,33	1,62	22,19	13,06
	5,0	12,10	9,50	128,50	30,00	3,26	1,57	25,70	15,00
100 x 50	2,0	5,70	4,47	73,68	25,38	3,60	2,11	14,74	10,15
	2,5	7,02	5,51	89,21	30,61	3,56	2,09	17,84	12,25
	3,0	8,28	6,50	103,65	35,45	3,54	2,07	20,73	14,18
	4,0	10,80	8,48	129,37	43,97	3,46	2,02	25,87	17,59
	5,0	13,10	10,28	151,08	51,08	3,40	1,97	30,22	20,43
100 x 60	2,0	6,10	4,79	83,7	38,3	3,7	2,50	16,7	12,8
	2,5	7,52	5,90	101,09	46,22	3,67	2,48	20,22	15,41
	3,0	8,89	6,98	117,77	53,73	3,64	2,46	23,55	17,91
	4,0	11,60	9,11	149	67,4	3,58	2,41	29,80	22,50
	5,0	14,10	11,10	175	78,9	3,52	2,36	35,10	26,30
120 x 40	2,0	6,10	4,79	102,16	18,32	4,09	1,73	17,03	9,16
	2,5	7,52	5,90	123,78	22,03	4,06	1,71	20,63	11,02
	3,0	8,89	6,98	143,91	25,43	4,02	1,69	23,98	12,71
	4,0	11,60	9,11	179,81	31,33	3,94	1,64	29,97	15,67
	5,0	14,10	11,07	210,17	36,17	3,86	1,60	35,03	18,08
120 x 60	2,0	6,90	5,42	130,01	45,00	4,35	2,55	21,8	15
	2,5	8,52	6,69	158,30	54,49	4,31	2,53	26,38	18,16
	3,0	10,10	7,93	184,98	63,48	4,28	2,51	30,83	21,16
	4,0	13,20	10,40	236	80	4,22	2,46	39,3	26,7
	5,0	16,10	12,70	279	94,1	4,16	2,41	46,50	31,4
120 x 80	2,5	9,52	7,47	192,82	103,95	4,50	3,30	32,14	25,99
	3,0	11,25	8,83	226,06	121,70	4,48	3,29	37,68	30,42
	4,0	14,80	11,6	290	155	4,42	3,24	48,3	38,80
	5,0	18,10	14,2	345	184	4,36	3,19	57,60	46,1
	6,0	21,15	16,60	391,33	209,25	4,30	3,15	65,22	52,31
140 x 60	2,5	9,52	7,47	232,51	62,76	4,94	2,57	33,22	20,92
	3,0	11,25	8,83	272,36	73,24	4,92	2,55	38,91	24,41
	4,0	14,80	11,62	345,75	92,31	4,83	2,50	49,39	30,77
	5,0	18,10	14,21	411,00	109,00	4,77	2,45	58,71	36,33
	6,0	21,15	16,60	468,45	123,49	4,71	2,42	66,92	41,16

ΟΡΘΟΓΩΝΙΚΕΣ ΚΟΙΛΕΣ ΔΙΑΤΟΜΕΣ (EN 10219)



Διαστάσεις		Τομή	Βάρος	Στατικά μεγέθη					
D x B (mm)	T (mm)	F (cm ²)	G (kg/m)	I _x (cm ⁴)	I _y (cm ⁴)	R _x (cm)	I _y (cm)	W _x (cm ³)	W _y (cm ³)
150 x 40	2,0	7,18	5,64	182,60	22,66	5,04	1,78	24,35	11,33
	2,5	8,95	7,03	222,22	27,31	4,98	1,75	29,63	13,66
	3,0	10,58	8,31	259,52	31,60	4,95	1,73	34,60	15,80
	4,0	13,86	10,80	327,34	39,14	4,86	1,68	43,65	19,57
150 x 50	2,5	9,52	7,47	249,42	44,73	5,12	2,17	33,26	17,89
	3,0	11,25	8,83	291,94	52,04	5,09	2,15	38,93	20,82
	4,0	14,80	11,62	369,99	65,19	5,00	2,10	49,33	26,07
	5,0	18,10	14,21	439,00	76,50	4,92	2,06	58,53	30,60
150 x 100	6,0	21,15	16,60	499,33	86,13	4,86	2,02	66,58	34,45
	2,5	11,86	9,31	385,41	208,06	5,70	4,19	51,39	41,61
	3,0	14,25	11,19	454,03	244,83	5,64	4,14	60,54	48,97
	4,0	18,80	14,80	587	315	5,59	4,09	78,2	63
160 x 80	5,0	23,10	18,20	707	379	5,53	4,04	97,3	75,70
	6,0	27,14	21,30	810,55	434,45	5,46	4,00	108,07	86,89
	2,5	11,20	8,79	387,74	133,99	5,88	3,46	48,47	33,50
	3,0	13,70	10,75	456,25	157,29	5,77	3,39	57,03	39,32
180 x 60	4,0	18,00	14,1	589	201	5,72	3,34	73,6	50,30
	5,0	22,10	17,40	708	241	5,64	3,30	88,5	60,20
	6,0	26,00	20,41	808,23	275,11	5,58	3,25	101,03	68,78
	2,5	11,20	8,79	439,93	79,30	6,27	2,66	48,88	26,43
200 x 50	3,0	13,70	10,75	517,19	92,75	6,14	2,60	57,47	30,92
	4,0	18,00	14,13	661,44	117,44	6,06	2,55	73,49	39,15
	5,0	22,10	17,35	792,33	139,33	5,99	2,51	88,04	46,44
	6,0	26,00	20,41	910,31	158,63	5,92	2,47	101,15	52,88
200 x 100	2,5	11,86	9,31	528,38	58,84	6,67	2,23	52,84	23,54
	3,0	14,25	11,19	621,23	68,63	6,60	2,19	62,12	27,45
	4,0	18,80	14,76	794,60	86,40	6,50	2,14	79,46	34,56
	5,0	23,10	18,13	951,92	101,92	6,42	2,10	95,19	40,77
200 x 100	6,0	27,14	21,30	1093,65	115,35	6,35	2,06	109,37	46,14
	2,5	15,71	12,33	772,18	267,49	7,01	4,13	77,22	53,50
	3,0	17,10	13,42	912,32	315,42	7,30	4,29	91,23	63,08
	4,0	22,80	17,90	1178,81	406,01	7,19	4,22	117,88	81,20
200 x 100	5,0	28,10	22,06	1427,33	489,83	7,13	4,18	142,73	97,97
	6,0	33,10	25,98	1658,37	567,17	7,08	4,14	165,84	113,43



ΑΝΤΙΣΤΟΙΧΙΕΣ ΠΟΙΟΤΗΤΩΝ

EN		EN											NORWAY
EN 1005-2:2004	EN 10025:1990 +A1:1993	EN 10025:1990	GERMANY	FRANCE	U.K.	SPAIN	ITALY	BELGIUM	SWEDEN	PORTUGAL	AUSTRIA	NORWAY	
S185	1.0035	Fe 310-0	St 33	A 33		UNE 36-080	UNI 7070	NBN A 21-101	SS 14	NP 1729	N 3116		
	S235JR	Fe 360 B	St 37-2	E24-2			Fe 360 B	AE 235-B	13 11-00	Fe 360-B	St 320	NS 12 120	
	S235JRG1	Fe 360 BFN	Ust 37-2			AE 235 B-FU					Ust 360 B	NS 12 122	
S235JR	1.0038	Fe 360 BFN	RSt 37-2		40B	AE 235 B- FN			13 12-00		Rst 360 B	NS 12 123	
S235JO	1.0114	Fe 360 C	St 37-3 U	E24-3	40C	AE 235 C	Fe 360 C	AE 235-C		Fe 360-C	St 360 C	NS 12 124	
	S235J2G3	Fe 360 D1	St 37-3 N	E24-4	40D	AE 235 D	Fe 360 D	AE 235-D		Fe 360-CE	St 360 D	NS 12 124	
S235J2	1.0117	Fe 360 D2											
S275JR	1.0044	Fe 430 B	St 44-2	E 28-2	43B	AE 275 B	Fe 430 B	AE 255-B	14 12-00	Fe 430-B	St 430 B	NS 12 142	
S275JO	1.0143	Fe 430 C	St 44-3 U	E 28-3	43C	AE 275 C	Fe 430 C	AE 255-C		Fe 430-C	St 430 C	NS 12 143	
	S275JOG3	Fe 430 D1	St 44-3 N	E 28-4	43D	AE 275 D	Fe 430 D	AE 255-D	14 14-00	Fe 430-D	St 430 D	NS 12 143	
S275J2	1.0145	Fe 430 D2											
S355JR	1.0045	Fe 510 B		E 36-2	50B	AE 355 B	Fe 510 B	AE 355-B		Fe 510-B			
S355JO	1.0553	Fe 510 C	St 52-3 U	E 36-3	50C	AE 355 C	Fe 510 C	AE 355-C		Fe 510-C	St 51C	NS 12 153	
	S355J2G3	Fe 510 D1	St 52-3N		50D	AE 355D	Fe 510 D	AE 355-D		Fe 510-D	St 51 D	NS 12 153	
S355J2	1.0577	Fe 510 D2											
	S355K2G3	Fe 510 DD1		E 36-4	50DD			AE 355-DD		Fe 510-DD			
S355K2	1.0596	Fe 510 DD2											
S450JO	1.0590				55C								
E295	1.0050	Fe 490 - 2	St 50-2	A 50-2		A 490	Fe 490	A 490-2	15 50-00	Fe 490-2	St 490		
	E335	Fe 590 - 2	St 60-2	A 60-2		A 590	Fe 590	A 590-2	15 50-01	Fe 590-2	St 590		
E360	1.0070	Fe 690 - 2	St 70-2	A 70-2		A 690	Fe 690	A 690-2	16 50 01	Fe 690-2	St 690		
									16 55 00	Fe 690-2	St 690		
									16 55 01				

CHEMICAL COMPOSITION OF THE PRODUCT ANALYSIS

Designation		Method of deoxidation ^b	C in % max. for nominal product thickness in mm			Si % max.	Mn % max.	P % max. ^d	S % max. ^{d,e}	N % max. ^f	Cu % max. ^g	Other % max. ^h
According to EN 10027-1 and CR 10260	According to EN 10027-2		≤ 16	> 16 ≤ 40	> 40 ^c							
S235JR	1.0038	FN	0,19	0,19	0,23	-	1,50	0,045	0,045	0,014	0,60	-
S235J0	1.0114	FN	0,19	0,19	0,19	-	1,50	0,040	0,040	0,014	0,60	-
S235J2	1.0117	FF	0,19	0,19	0,19	-	1,50	0,035	0,035	-	0,60	-
S275JR	1.0044	FN	0,24	0,24	0,25	-	1,60	0,045	0,045	0,014	0,60	-
S275J0	1.0143	FN	0,21	0,21	0,23 ⁱ	-	1,60	0,040	0,040	0,014	0,60	-
S275J2	1.0145	FF	0,21	0,21	0,23 ⁱ	-	1,60	0,035	0,035	-	0,60	-
S355JR	1.0045	FN	0,27	0,27	0,27	0,60	1,70	0,045	0,045	0,014	0,60	-
S355J0	1.0553	FN	0,23 ^j	0,23 ^k	0,24	0,60	1,70	0,040	0,040	0,014	0,60	-
S355J2	1.0577	FF	0,23 ^j	0,23 ^k	0,24	0,60	1,70	0,035	0,035	-	0,60	-
S355K2	1.0596	FF	0,23 ^j	0,23 ^k	0,24	0,60	1,70	0,035	0,035	-	0,60	-
S450J0 ^l	1.0590	FF	0,23	0,23 ^k	0,24	0,60	1,80	0,040	0,040	0,027	0,60	^m

^b FN = rimming steels not permitted; FF = fully killed steel

^c For sections with nominal thickness > 100 mm the C content by agreement.

^d For long products the P and S content can be 0,005% higher.

^e For long products the max. S content can be increased for improved machinability by 0,015% by agreement if the steel is treated to modify the sulphide morphology and the chemical composition shows min. 0,0020% Ca.

^f The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,015% or alternatively min. 0,013% acid soluble Al or if sufficient other N binding elements are present. In this case the N binding elements shall be mentioned in the inspection document.

^g Cu content above 0,45% may cause hot shortness during hot forming.

^h If other elements are added, they shall be mentioned on the inspection document.

ⁱ For nominal thickness > 150 mm: C = 0,22% max.

^j For grades suitable for cold roll forming C = 0,24% max.

^k For nominal thickness > 30 mm: C = 0,24% max.

^l Applicable for long products only.

^m The steel may show a Nb content of max. 0,06%, a V content of max. 0,15% and a Ti content of max. 0,06%.

(according to EN10025)

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE FOR FLAT AND LONG PRODUCTS OF STEEL GRADES AND QUALITIES WITH VALUES FOR THE IMPACT STRENGTH

Designation		Minimum yield strength R _{eH} ^a MPa ^b Nominal thickness mm									Tensile strength R _m ^a MPa ^b Nominal thickness mm				
According to EN 10027-1 and CR 10260	According to EN 10027-2	≤ 16	> 16 ≤ 40	> 40 ≤ 63	> 63 ≤ 80	> 80 ≤ 100	> 100 ≤ 150	> 150 ≤ 200	> 200 ≤ 250	> 250 ≤ 400 ^c	> 3	≥ 3 ≤ 100	> 100 ≤ 150	> 150 ≤ 250	> 250 ≤ 400 ^c
S235JR	1.0038	235	225	215	215	215	195	185	175	-	360 to 510	360 to 510	350 to 500	340 to 490	-
S235J0	1.0114	235	225	215	215	215	195	185	175	-	360 to 510	360 to 510	350 to 500	340 to 490	-
S235J2	1.0117	235	225	215	215	215	195	185	175	165	360 to 510	360 to 510	350 to 500	340 to 490	330 to 480
S275JR	1.0044	275	265	255	245	235	225	215	205	-	430 to 580	410 to 560	400 to 540	380 to 540	-
S275J0	1.0143	275	265	255	245	235	225	215	205	-	430 to 580	410 to 560	400 to 540	380 to 540	-
S275J2	1.0145	275	265	255	245	235	225	215	205	195	430 to 580	410 to 560	400 to 540	380 to 540	380 to 540
S355JR	1.0045	355	345	335	325	315	295	285	275	-	510 to 680	470 to 630	450 to 600	450 to 600	-
S355J0	1.0553	355	345	335	325	315	295	285	275	-	510 to 680	470 to 630	450 to 600	450 to 600	-
S355J2	1.0577	355	345	335	325	315	295	285	275	265	510 to 680	470 to 630	450 to 600	450 to 600	450 to 600
S355K2	1.0596	355	345	335	325	315	295	285	275	265	510 to 680	470 to 630	450 to 600	450 to 600	450 to 600
S450J0 ^d	1.0590	450	430	410	390	380	380	-	-	-	-	550 to 720	530 to 700	-	-

^a For plate and wide flats with widths ≥ 600 mm the direction transverse (t) to the rolling applies. For all other products the values apply for the direction parallel (l) to the rolling direction.

^b 1 MPa = 1 N/mm².

^c The values apply to flat products.

^d Applicable for long products only.

(according to EN10025)

MECHANICAL PROPERTIES AT AMBIENT TEMPERATURE FOR FLAT AND LONG PRODUCT OF STEEL GRADES AND QUALITIES WITH VALUES FOR THE IMPACT STRENGTH (CONCLUDED)

Designation		Position of test pieces ^a	Minimum percentage elongation after fracture ^a %										
			$L_0 = 80$ mm Nominal thickness mm					$L_0 = 5,65 \sqrt{S_0}$ Nominal thickness mm					
According EN 10027-1 and CR 10260	According EN 10027-2		≤ 1	$> 1 \leq 1,5$	$> 1,5 \leq 2$	$> 2 \leq 2,5$	$> 2,5 < 3$	$\geq 3 \leq 40$	$> 40 \leq 63$	$> 63 \leq 100$	$> 100 \leq 150$	$> 150 \leq 250$	$> 250^c \leq 400$ only for J2 and K2
S235JR	1.0038	l	17	18	19	20	21	26	25	24	22	21	-
S235J0	1.0114												-
S235J2	1.0117	t	15	16	17	18	19	24	23	22	22	21	21 (l and t)
S275JR	1.0044	l	15	16	17	18	19	23	22	21	19	18	-
S275J0	1.0143												-
S275J2	1.0145	t	13	14	15	16	17	21	20	19	19	18	18 (l and t)
S355JR	1.0045	l	14	15	16	17	18	22	21	20	18	17	-
S355J0	1.0553												-
S355J2	1.0577												17 (l and t)
S355K2	1.0596	t	12	13	14	15	16	20	19	18	18	17	17 (l and t)
S450J0 ^d	1.0590	l	-	-	-	-	-	17	17	17	17	-	-

^a For plate, strip and wide flats with widths ≥ 600 mm the direction transverse (t) to the rolling direction applies. For all other products the values apply for the direction parallel (l) to the rolling direction.

^c The values apply to flat products.

^d Applicable for long product only.

(according to EN10025)

