

Formstahl

Materialqualitäten nach:

EN 10025 S235 JR (St 37-2 W.-Nr. 1.0038)

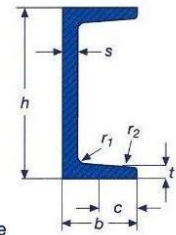
EN 10025 S355 J2 (St 52-3 W.-Nr. 1.0570)

F = Querschnittsfläche
HG = Handelsgewicht
J = Trägheitsmoment
W = Widerstandsmoment

$$r_1 = t \quad r_2 = \frac{t}{2}$$

$$i = \sqrt{\frac{J}{F}} = \text{Trägheitshalbmesser}$$

jeweils bezogen auf die zugehörige Biegeachse



UNP nach DIN / EN 10279

UNP	HG	Abmessungen in mm				F	Jx-x	Wx-x	ix-x	Jy-y	Wy-y	iy-y
		h	b	s	t = r ¹							
	kg/m	h	b	s	t = r ¹	cm ²	cm ⁴	cm ³	cm	cm ⁴	cm ³	cm
80	8,9	80	45	6,0	8,0	11,0	106	26,5	3,10	19,4	6,36	1,33
100	10,9	100	50	6,0	8,5	13,5	206	41,2	3,91	29,3	849,00	1,47
120	13,7	120	55	7,0	9,0	17,0	364	60,7	4,62	43,2	11,10	1,59
140	16,4	140	60	7,0	10,0	20,4	605	86,4	5,45	62,7	14,80	1,75
160	19,3	160	65	7,5	10,5	24,0	925	116,0	6,21	85,3	18,30	1,89
180	22,5	180	70	8,0	11,0	28,0	1350	150,0	6,95	114,0	22,40	2,02
200	26,0	200	75	8,5	11,5	32,2	1910	191,0	7,70	148,0	27,00	2,14
220	30,0	220	80	9,0	12,5	37,4	2690	245,0	8,48	197,0	23,60	2,30
240	34,0	240	85	9,5	13,0	42,3	3600	300,0	9,22	248,0	39,60	2,42
260	39,5	260	90	10,0	14,0	48,3	4820	371,0	9,99	317,0	47,70	2,56
280	43,0	280	95	10,0	15,0	53,3	6280	448,0	10,90	399,0	57,20	2,74
300	48,0	300	100	10,0	16,0	58,8	8030	535,0	11,70	495,0	67,80	2,90
320	61,0	320	100	14,0	17,5	75,8	10870	679,0	12,10	597,0	80,60	2,81
350	62,0	350	100	14,0	16,0	77,3	12840	734,0	12,90	570,0	75,00	2,72
380	65,0	380	102	13,5	16,0	80,4	15760	829,0	14,00	615,0	78,70	2,77
400	74,0	400	110	14,0	18,0	91,5	20350	1020,0	14,90	846,0	102,00	3,04