

AGT GERMAN TECHNICS

Industrial Components and Equipment

Hollow Bars

Hot Rolled / Extruded Pickled DIN 17456 / 17458

Diameter mm	Wall Thickness mm	Outside Diameter		Inside Diameter		Weight -0 / +20% kg/m
		OD max mm	ID max mm	OD max mm	ID max mm	
32 x 16	8.0	31.0	18.0	30.0	17.0	4.7
20	6.0	31.0	22.0	30.0	21.0	3.8
36 x 16	10.0	35.0	18.5	33.5	17.0	6.4
20	8.0	35.0	22.0	34.0	21.0	5.5
25	5.5	35.0	27.0	34.0	26.0	4.1
40 x 20	10.0	39.0	22.0	37.0	21.0	7.4
25	7.5	39.0	27.0	38.0	26.0	6.0
28	6.0	39.0	30.0	38.0	29.0	5.0
45 x 20	12.5	44.0	22.5	42.5	21.0	10.0
28	8.5	44.0	30.5	42.5	29.0	7.6
32	6.5	44.0	34.0	43.0	33.0	6.2
50 x 25	12.5	49.0	27.5	47.5	26.0	11.6
32	9.0	49.0	34.5	47.5	33.0	9.1
36	7.0	49.0	38.0	48.0	37.0	7.4
56 x 28	14.0	55.0	30.5	53.5	29.0	14.5
36	10.0	55.0	38.5	53.5	37.0	11.3
40	8.0	55.0	42.0	54.0	41.0	9.5
60 x 40	10.0					12.3
44	8.0					10.4
63 x 32	15.5	62.0	34.5	60.0	33.0	18.1
36	13.5	62.0	38.5	60.5	37.0	16.5
40	11.5	62.0	42.5	60.5	41.0	14.6
45	9.0					12.0
50	6.5	62.0	52.0	61.0	51.0	9.1
70 x 50	10.0					15.0
71 x 36	17.5					23.1
40	15.5	69.5	42.5	68.0	41.0	21.2
45	13.0	69.5	47.5	68.5	46.0	18.6
56	7.5	69.5	58.0	69.0	57.0	11.7
75 x 40	17.5	73.5	42.5	72.0	41.0	24.8
76 x 58	9.0					15.0
80 x 40	20.0	78.5	43.0	77.0	41.0	29.6
45	17.5	78.5	48.0	77.0	46.0	27.0
50	15.0	78.5	52.5	77.0	51.0	24.0
63	8.5	78.5	65.5	77.5	64.0	15.0
85 x 45	20.0	83.5	48.0	81.5	46.0	32.0
90 x 50	20.0	88.5	53.0	86.5	51.0	34.5
56	17.0	88.5	58.5	87.0	57.0	30.6
63	13.5	88.5	65.5	87.0	64.0	25.5
71	9.5	88.5	73.5	87.5	72.5	18.8
95 x 50	22.5	93.5	53.0	91.5	51.0	40.9
100 x 56	22.0	98.5	59.0	96.5	57.0	42.3
63	18.5	98.5	66.0	96.5	64.0	37.2
71	14.5	98.5	74.0	97.0	72.5	30.6
80	10.0	98.5	82.5	97.5	81.5	22.2
106 x 56	25.0	104.0	59.5	102.0	57.0	49.9
63	21.5	104.0	66.0	102.5	64.0	44.8
71	17.5	104.0	74.0	102.6	72.5	38.2
80	13.0	104.0	83.0	103.0	82.5	29.8

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Diameter mm	Wall Thickness mm	Outside Diameter		Inside Diameter		Weight -0 / +20% kg/m
		OD max mm	ID max mm	OD max mm	ID max mm	
112 x 63	24.5	110.0	66.5	108.0	64.0	52.8
71	20.5	110.0	74.0	108.5	72.5	46.2
80	16.0	110.0	83.0	108.5	81.5	37.8
90	11.0	110.0	93.0	109.0	91.5	27.4
118 x 63	27.5	116.0	66.5	114.0	64.0	61.3
71	23.5	116.0	74.0	114.0	72.5	54.7
80	19.0	116.0	83.0	114.5	81.5	46.3
90	14.0	116.0	93.0	114.5	91.5	35.9
125 x 71	27.0	123.0	74.5	121.0	72.5	65.2
80	22.5	123.0	83.5	121.0	81.5	56.8
90	17.5	123.0	93.0	121.5	91.5	46.4
100	12.5	123.0	103.0	121.5	101.5	34.6
132 x 71	30.5	130.0	75.0	127.5	72.5	76.3
80	26.0	130.0	83.5	128.0	81.5	67.9
90	21.0	130.0	93.5	128.0	91.5	54.4
106	13.0	130.0	109.0	128.5	108.0	38.1
140 x 80	30.0	137.5	84.0	135.5	81.5	81.3
90	25.0	137.5	93.5	136.0	91.5	70.8
100	20.0	137.5	103.5	136.0	101.5	59.1
112	14.0	137.5	115.0	136.5	114.0	43.5
150 x 80	35.0	147.5	84.0	145.0	81.5	99.2
95	27.5	147.5	99.0	145.5	96.5	84.4
106	22.0	147.5	109.5	146.0	108.0	69.4
125	12.5	147.5	128.5	146.5	127.0	42.3
160 x 112	24.0	157.5	116.0	155.5	114.0	80.4
122	19.0	157.5	125.5	156.0	124.0	67.1
132	14.0	157.5	135.5	156.0	134.0	50.5
170 x 106	32.0					110.6
118	26.0	167.0	122.0	165.5	120.0	92.2
130	20.0	167.0	134.0	165.5	132.0	73.9
140	15.0	167.0	143.5	166.0	142.5	57.3
180 x 125	27.5	177.0	129.0	175.0	127.0	103.3
130	25.0	177.0	144.0	175.5	142.5	97.0
150	15.0	177.0	153.5	176.0	152.5	61.0
190 x 132	29.0	187.0	136.5	185.0	134.0	115.0
150	20.0	187.0	154.0	185.5	152.5	83.8
160	15.0	187.0	164.0	186.0	162.5	64.7
200 x 140	30.0	197.0	144.5	194.5	142.5	127.7
150	25.0	197.0	154.5	195.0	152.5	109.6
160	20.0	197.0	164.0	195.0	162.5	90.2
212 x 130	41.0	208.5	135.0	206.0	132.0	175.6
170	21.0	208.5	174.5	207.0	173.0	100.5
224 x 140	41.0	220.5	145.0	217.5	183.0	191.4
180	22.0	220.5	184.5	218.5	142.5	111.3
236 x 150	43.0	232.0	155.5	229.5	152.5	207.8
190	23.0	232.0	195.0	230.5	193.0	122.7
250 x 200	25.0	246.0	205.0	244.0	203.0	140.9

AGT GERMAN TECHNICS

Industrial Components and Equipment

Pipe and Tube Pipe Schedule (metric)

Wall Thickness = mm
Weight = kg/m (plain end mass)
5S, 10S, 40S, 80S - AISI B36.19

Nominal pipe size		OD	5S		10S		10		20		30		STD		40S		40		60		
mm	inch	mm	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	mm	kg/m	
6	¼	10.3			1.24	0.28							1.73	0.37	1.73	0.36	1.73	0.37			
8	¼	13.7			1.65	0.51							2.24	0.63	2.24	0.64	2.24	0.63			
10	¼	17.1			1.65	0.64							2.31	0.84	2.31	0.86	2.31	0.84			
15	½	21.3	1.65	0.82	2.11	1.01							2.77	1.27	2.77	1.30	2.77	1.27			
20	¾	26.7	1.65	1.04	2.11	1.31							2.87	1.69	2.87	1.71	2.87	1.69			
25	1	33.4	1.65	1.33	2.77	2.13							3.38	2.50	3.38	2.55	3.38	2.50			
32	1¼	42.2	1.65	1.68	2.77	2.76							3.56	3.39	3.56	3.46	3.56	3.39			
40	1½	48.3	1.65	1.95	2.77	3.10							3.68	4.05	3.68	4.13	3.68	4.05			
50	2	60.3	1.65	2.44	2.77	4.01							3.91	5.44	3.91	5.54	3.91	5.44			
65	2½	73.0	2.11	3.77	3.05	5.36							5.16	8.63	5.16	8.81	5.16	8.63			
80	3	88.9	2.11	4.60	3.05	6.59							5.49	11.29	5.49	11.52	5.49	11.29			
90	3½	101.6	2.11	5.29	3.05	7.55							5.74	13.57	5.74	13.84	5.74	13.57			
100	4	114.3	2.11	5.96	3.05	8.52							6.02	16.07	6.02	16.40	6.02	16.07			
125	5	141.3	2.77	9.67	3.40	11.82							6.55	21.77	6.55	22.20	6.55	21.77			
150	6	168.3	2.77	11.55	3.40	14.13							7.11	28.26	7.11	28.83	7.11	28.26			
200	8	219.1	2.77	15.09	3.76	20.37		6.35	33.31	7.04	36.81	8.18	42.55	8.18	43.39	8.18	42.55	10.31	53.08		
250	10	273.1	3.40	23.08	4.19	28.34		6.35	41.77	7.80	51.03	9.27	60.31	9.27	61.52	9.27	60.31	12.70	81.55		
300	12	323.9	3.96	31.89	4.57	36.73		6.35	49.73	8.38	65.20	9.53	73.88	9.52	75.32	10.31	79.73	14.27	108.96		
350	14	355.6	3.96	35.06	4.78	42.14	6.35	54.69	7.92	67.90	9.53	81.33	9.53	81.33			11.13	94.55	15.09	126.71	
400	16	406.4	4.19	42.41	4.78	48.26	6.35	62.64	7.92	77.83	9.53	93.27	9.53	93.27			12.70	123.30	16.66	160.12	
450	18	457.2	4.19	47.77	4.78	54.36	6.35	70.57	7.92	87.71	13.13	122.38	9.53	105.16			14.27	155.80	19.05	205.74	
500	20	508.0	4.78	60.46	5.54	70.00	6.35	78.55	9.53	117.15	12.70	155.12	9.53	117.15			15.09	183.42	20.62	247.83	
550	22	558.8	4.78	66.57	5.54	77.06	6.35	86.54	9.53	129.13	12.70	171.09	9.53	129.13					22.23	294.25	
600	24	609.6	5.54	84.16	6.35	96.37	6.35	94.53	9.53	141.12	14.27	209.64	9.53	141.12			17.48	255.41	24.61	355.26	
650	26	660.4					7.92	127.36	12.70	202.72			9.53	152.87							
700	28	711.2					7.92	137.32	12.70	218.69	15.88	271.21	9.53	164.85							
750	30	762.0	6.35	120.72	7.92	150.36	7.92	147.28	12.70	234.67	15.88	292.18	9.53	176.84							
800	32	812.8					7.92	157.24	12.70	250.64	15.88	312.15	9.53	188.82			17.48	342.91			
850	34	863.6					7.92	167.20	12.70	266.61	15.88	332.12	9.53	200.31			17.48	364.90			
900	36	914.4					7.92	176.96	12.70	282.27	15.88	351.70	9.53	212.56			19.05	420.40			
950	38	965.2											9.53	224.54							
1000	40	1016.0											9.53	236.53							
1050	42	1066.8											9.53	248.52							
1100	44	1117.8											9.53	260.5							
1150	46	1168.4											9.53	272.25							
1200	48	1219.2											9.53	284.24							

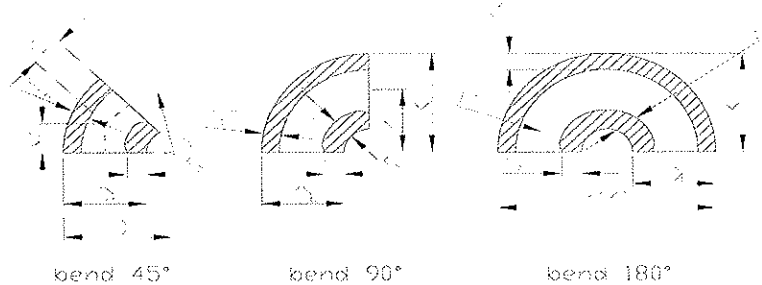
AGT GERMAN TECHNICS

Industrial Components and Equipment

Bend

DIN 2605, Teil 1

Bauart $r \approx 1,0 \times d_a$
 Bauart $r \approx 1,5 \times d_a$
 Bauart $r \approx 2,5 \times d_a$
 Bauart $r \approx 5,0 \times d_a$
 Bauart $r \approx 10,0 \times d_a$



DN	d_a	Bauart	1	2	3	4	5	r	b	e
15	21.3	2			2.0	3.2	4.0	17.5	28	7
		3	1.6	-				28.0	38	12
		5						42.5	53	18
20	26.9	2						25.0	39	10
		3	1.6	-	2.3	3.2	4.0	29.0	43	12
		5						57.5	71	24
25	33.7	2						25.5	42	10
		3	2.0	-	2.6	3.2	4.0	38	56	16
		5						72.5	90	30
32	42.4	2						32	53	13
		3	2.0	-	2.6	3.6	4.0	48	69	20
		5						92.5	114	38
40	48.3	2						38	62	16
		3	2.0	-	2.6	4.0	5.0	57	82	24
		5						107.5	132	45
50	60.3	2						51	81	21
		3						76	106	32
		5	2.0	-	2.9	4.5	5.6	135	165	56
		10						254	284	105
		20						508	538	210
65	76.1	2						63	102	26
		3						95	133	39
		5	2.3	-	2.9	5.0	7.1	175	213	73
		10						318	356	132
		20						635	673	263
80	88.9	2						76	121	32
		3						114	159	47
		5	2.3	-	3.2	5.6	8.0	205	250	85
		10						381	425	158
		20						762	806	316
100	114.3	2						102	159	42
		3						152	210	63
		5	2.6	-	3.6	6.3	8.8	270	327	112
		10						508	565	210
		20						1016	1073	421
100	139.7	2						127	197	53
		3	2.6	-	4.0	6.3	10.0	190	260	79
125	139.7	5	2.6	-	4.0	6.3	10.0	330	400	137
		10						635	705	263
		20						1270	1340	526

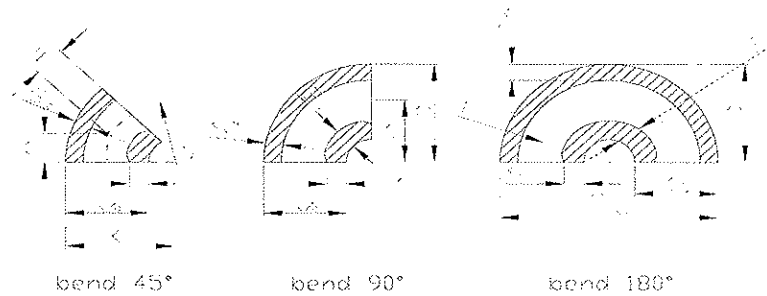
AGT GERMAN TECHNICS

Industrial Components and Equipment

Bend

DIN 2605, Teil 1

Bauart $r \approx 1,0 \times d_a$
 Bauart $r \approx 1,5 \times d_a$
 Bauart $r \approx 2,5 \times d_a$
 Bauart $r \approx 5,0 \times d_a$
 Bauart $r \approx 10,0 \times d_a$



150	168.3	2	2.6	4.0	4.5	7.1	11.0	152	237	63
		3						229	313	95
		5						390	474	162
		10						762	846	316
		20						1524	1608	631
200	219.1	2	2.9	4.5	6.3	8.0	12.5	203	313	84
		3						305	414	126
		5						510	620	211
		10						1016	1126	421
		20						2032	2142	842
250	273	2	2.9	5.0	6.3	8.8	-	254	391	105
		3					381	518	158	
		5					650	787	269	
		10					1270	1407	526	
		20					2540	2677	1052	
300	323.9	2	2.9	5.6	7.1	10.0	-	305	467	126
		3					457	618	189	
		5					775	937	321	
		10					1524	1686	631	
		20					3048	3210	1263	
350	355.6	2	3.2	5.6	8.0	11.0	-	356	533	148
		3					533	711	221	
		5					850	1028	352	
		10					1778	1956	737	
		20					3556	3734	1473	
400	406.4	2	3.2	6.3	8.8	12.5	-	406	610	168
		3					5610	813	253	
		5					970	1173	402	
		10					2032	2235	842	
		20					4064	4267	1683	
450	457	2	4.0	6.3	10.0	-	-	457	686	189
		3				686	914	284		
		5				1122	1350	465		
		10				2286	2515	947		
		20				4572	4801	1894		
500	508	2	4.0	6.3	11.0	-	-	508	762	210
		3				762	1016	316		
		5				1245	1500	516		
		10				2540	2794	1052		
		20				5080	5334	2104		

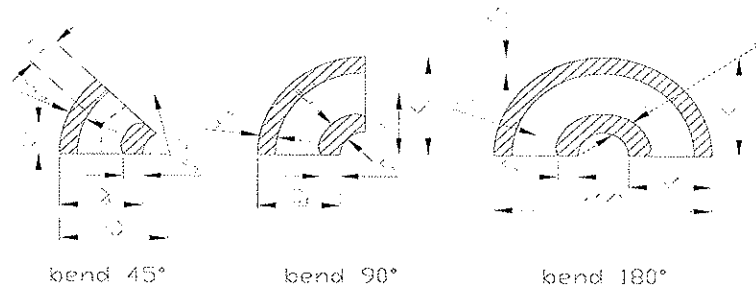
AGT GERMAN TECHNICS

Industrial Components and Equipment

Bend

DIN 2605, Teil 1

Bauart $r \approx 1,0 \times d_a$
 Bauart $r \approx 1,5 \times d_a$
 Bauart $r \approx 2,5 \times d_a$
 Bauart $r \approx 5,0 \times d_a$
 Bauart $r \approx 10,0 \times d_a$



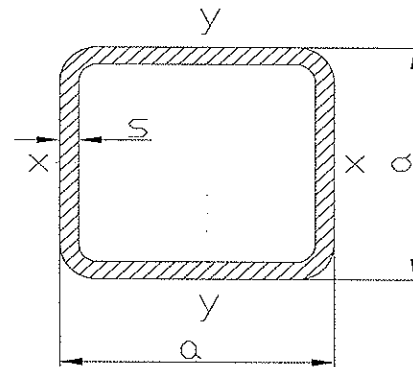
600	610	2						610	914	253
		3	5.0	6.3	12.5	-	-	914	1219	379
		5	5.0	6.3	12.5	-	-	1525	1830	632
		10						3050	3355	1263
		20						6100	6405	2527
700	711	2						711	1066	295
		3						1067	1422	442
		5	5.0	7.1	12.5	-	-	1778	2133	737
		10						3555	3911	1473
		20						7110	7466	2945
800	813	2						813	1220	337
		3						1219	1626	505
		5	5.6	8.0	12.5	-	-	2033	2439	842
		10						4065	4472	1684
		20						8130	8537	3368
900	914	2						914	1371	379
		3						1372	1829	568
		5	6.3	10.0	12.5	-	-	2285	2742	947
		10						4570	5027	1893
		20						9140	9597	3786
1000	1016	2						1016	1524	421
		3						1524	2032	631
		5	6.3	10.0	12.5	-	-	2540	3048	1052
		10						5080	5588	2104
		20						10160	10668	4208
1200	1220	2						1220	1830	505
		3						1830	1440	758
		5	6.3	12.5	-	-	-	3050	3660	1263
		10						6100	6710	2527
		20						12200	12810	5053
1400	1420	2						1420	2130	588
		3						2130	2840	882
		5	6.3	12.5	-	-	-	3550	4260	1471
		10						7100	7810	2941
		20						14200	14910	5882
1600	1620	2						1620	2430	671
		3						2430	3240	1007
		5	6.3	12.5	-	-	-	4050	4860	1678
		10						8100	8910	3355
		20						16200	17010	6710

AGT GERMAN TECHNICS

Industrial Components and Equipment

Square Profiles Hot Rolled DIN EN 10210

DIN EN 10210 (DIN 59410)
S235 JRG (R St 37-2), S 275 J2 G 3/4 (St 44-3)
S 355 J 2 G 3 / 4 (St 52-3)



<i>l</i> <i>a</i> mm	<i>t</i> <i>s</i> mm	Theoretical Wt. kg/m
20	2.0	1.05
25	2.0	1.36
25	2.5	1.64
25	3.0	1.89
30	2.0	1.68
30	2.5	2.03
30	3.0	2.36
40	2.0	2.31
40	2.5	2.82
40	3.0	3.30
40	4.0	4.20
50	2.0	2.93
50	2.5	3.60
50	3.0	4.25
50	4.0	5.45
50	5.0	6.56
60	2.0	3.56
60	2.5	4.39
60	3.0	5.19
60	4.0	6.71
60	5.0	8.13
60	6.0	9.45
60	6.3	9.55
70	2.5	5.17
80	3.0	7.07
80	4.0	9.22
80	5.0	11.30
80	6.0	13.20
80	6.3	13.50
80	8.0	16.40
90	3.0	8.01
90	4.0	10.50
90	5.0	12.80
90	6.0	15.10
90	6.3	15.50
90	8.0	18.90
100	3.0	8.96

<i>l</i> <i>a</i> mm	<i>t</i> <i>s</i> mm	Theoretical Wt. kg/m
100	6.3	17.50
100	8.0	21.40
100	10.0	25.60
100	12.0	28.30
100	12.5	29.10
120	3.0	10.80
120	4.0	14.20
120	5.0	17.50
120	6.0	20.70
120	6.3	21.40
120	8.0	26.40
120	10.0	31.80
120	12.0	35.80
120	12.5	36.90
140	4.0	16.80
140	5.0	20.70
140	6.0	24.50
140	6.3	25.40
140	8.0	31.40
140	10.0	38.10
140	12.0	43.40
140	12.5	44.80
150	4.0	18.00
150	5.0	22.30
150	6.0	26.40
150	6.3	27.40
150	8.0	33.90
150	10.0	41.30
150	12.0	47.10
150	12.5	48.70
150	16.0	58.70
160	4.0	19.30
160	5.0	23.80
160	6.0	28.30
160	6.3	29.30
160	8.0	36.50
160	10.0	44.40

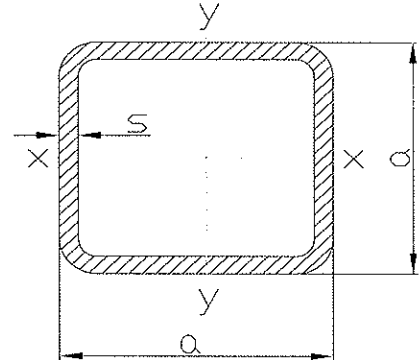
AGT GERMAN TECHNICS

Industrial Components and Equipment

Square Profiles

Hot Rolled DIN EN 10210

DIN EN 10210 (DIN 59410)
S235 JRG (R St 37-2), S 275 J2 G 3/4 (St 44-3)
S 355 J 2 G 3 / 4 (St 52-3)



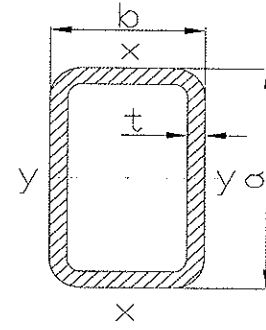
<i>l</i> <i>a</i> <i>mm</i>	<i>t</i> <i>s</i> <i>mm</i>	<i>Theoretical</i> <i>Wt.</i> <i>kg/m</i>
100	4.0	11.70
100	5.0	14.40
100	6.0	17.00
180	4.0	21.80
180	5.0	27.00
180	6.0	32.10
180	6.3	33.30
180	8.0	41.50
180	10.0	50.70
180	12.0	58.50
180	12.5	60.50
180	16.0	73.80
200	4.0	24.30
200	5.0	30.10
200	6.0	35.80
200	6.3	37.20
200	8.0	46.50
200	10.0	57.00
200	12.0	66.00
200	12.5	68.30
200	16.0	83.80
220	5.0	33.20
220	6.0	39.60
220	6.3	41.20
220	8.0	51.50
220	10.0	63.20
220	12.0	73.50
220	12.5	76.20
220	16.0	93.90
250	5.0	38.00
250	6.0	45.20
250	6.3	47.10

<i>l</i> <i>a</i> <i>mm</i>	<i>t</i> <i>s</i> <i>mm</i>	<i>Theoretical</i> <i>Wt.</i> <i>kg/m</i>
160	12.0	50.90
160	12.5	52.60
160	16.0	63.70
250	8.0	59.10
250	10.0	72.70
250	12.0	84.80
250	12.5	88.00
250	16.0	109.00
260	6.0	47.10
260	6.3	49.10
260	8.0	61.60
260	10.0	75.80
260	12.0	88.60
260	12.5	91.90
260	16.0	114.00
300	6.0	54.70
300	6.3	57.00
300	8.0	71.60
300	10.0	88.40
300	12.0	104.00
300	12.5	108.00
300	16.0	134.00
350	8.0	84.20
350	10.0	104.00
350	12.0	123.00
350	12.5	127.00
350	16.0	159.00
400	10.0	120.00
400	12.0	141.00
400	12.5	147.00
400	16.0	184.00

AGT GERMAN TECHNICS

Industrial Components and Equipment

Rectangular profiles
Hot Rolled DIN EN 10210



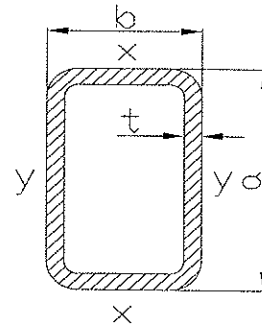
a mm	b mm	t mm	Theoretical Wt. kg/m
40	20	2.0	1.68
40	20	2.5	2.03
40	20	3.0	2.36
50	30	2.0	2.31
50	30	2.5	2.82
50	30	3.0	3.30
50	30	4.0	4.20
60	40	2.0	2.93
60	40	2.5	3.60
60	40	3.0	4.25
60	40	4.0	5.45
60	40	5.0	6.56
70	50	2.0	3.56
70	50	2.5	4.39
70	50	3.0	5.19
70	50	4.0	6.71
70	50	5.0	8.13
80	40	2.0	3.56
80	40	2.5	4.39
80	40	3.0	5.19
80	40	4.0	6.71
80	40	5.0	8.13
80	60	2.0	4.19
80	60	2.5	5.17
80	60	3.0	6.13
80	60	4.0	7.97
80	60	5.0	9.70
90	50	2.0	4.19
90	50	2.5	5.17
90	50	3.0	6.13
90	50	4.0	7.97
90	50	5.0	9.70
100	40	2.5	5.17
100	40	3.0	6.13
100	40	4.0	7.97
100	40	5.0	9.70
100	50	2.5	5.56
100	50	3.0	6.60
100	50	4.0	8.59
100	50	5.0	10.50
100	50	6.0	12.30

a mm	b mm	t mm	Theoretical Wt. kg/m
100	50	6.3	12.50
100	60	2.5	5.96
100	60	3.0	7.07
100	60	4.0	9.22
100	60	5.0	11.30
100	60	6.0	13.20
100	60	6.3	13.50
100	80	2.5	6.74
100	80	3.0	8.01
100	80	4.0	10.50
100	80	5.0	12.80
100	80	6.0	15.10
100	80	6.3	15.50
120	60	2.5	6.74
120	60	3.0	8.01
120	60	4.0	10.50
120	60	5.0	12.80
120	60	6.0	15.10
120	60	6.3	15.50
120	60	8.0	18.90
120	60	3.0	8.96
120	80	4.0	11.70
120	80	5.0	14.40
120	80	6.0	17.00
120	80	6.3	17.50
120	80	8.0	21.40
140	80	4.0	13.00
140	80	5.0	16.00
140	80	6.0	18.90
140	80	6.3	19.40
140	80	8.0	23.90
150	100	4.0	14.90
150	100	5.0	18.30
150	100	6.0	21.70
150	100	6.3	22.40
150	100	8.0	27.70
150	100	10.0	33.40
150	100	12.0	37.70
150	100	12.5	38.90
160	80	4.0	14.20
160	80	5.0	17.50

AGT GERMAN TECHNICS

Industrial Components and Equipment

Rectangular profiles Hot Rolled DIN EN 10210



a mm	b mm	t mm	Theoretical Wt. kg/m
160	80	6.0	20.70
160	80	6.3	21.40
160	80	8.0	26.40
160	80	10.0	31.80
160	80	12.0	35.80
160	80	12.5	36.90
180	100	4.0	16.80
180	100	5.0	20.70
180	100	6.0	24.50
180	100	6.3	25.40
180	100	8	31.40
180	100	10	38.10
180	100	12	43.40
180	100	12.5	44.80
200	100	4.0	18.00
200	100	6.0	26.40
200	100	6.3	27.40
200	100	8.0	33.90
200	100	10.0	41.30
200	100	12.0	47.10
200	100	12.5	48.70
200	120	4.0	19.30
200	120	5.0	23.80
200	120	6.0	28.30
200	120	6.3	29.30
200	120	8.0	36.50
200	120	10.0	44.40
200	120	12.0	50.90
200	120	12.5	52.60
250	150	5.0	30.10
250	150	6.0	35.80
250	150	6.3	37.20
250	150	8.0	46.50
250	150	10.0	57.00
250	150	12.0	66.00
250	150	12.5	68.30
250	150	16.0	83.80
260	180	5.0	33.20
260	180	6.0	39.60
260	180	6.3	41.20
260	180	8.0	51.50
260	180	10.0	63.20

a mm	b mm	t mm	Theoretical Wt. kg/m
260	180	12.0	73.50
260	180	12.5	76.20
260	180	16.0	93.90
300	100	6.0	35.80
300	100	6.3	37.20
300	100	8.0	46.50
300	100	10.0	57.00
300	100	12.0	66.00
300	100	12.5	68.30
300	100	16.0	83.80
300	150	6.0	40.50
300	150	6.3	42.20
300	150	8.0	52.80
300	150	10.0	64.80
300	150	12.0	75.40
300	150	12.5	78.10
300	150	16.0	96.40
300	200	6.0	45.20
300	200	6.3	47.10
300	200	8.0	59.10
300	200	10.0	72.70
300	200	12.0	84.80
300	200	12.5	88.00
300	200	16.0	109.00
350	250	6.0	54.70
350	250	6.3	57.00
350	250	8.0	71.60
350	250	10.0	88.40
350	250	12.0	104.00
350	250	12.5	108.00
350	250	16.0	134.00
400	200	8.0	71.60
400	200	10.0	88.40
400	200	12.0	104.00
400	200	12.5	108.00
400	200	16.0	134.00
400	300	8.0	84.20
400	300	10.0	104.00
400	300	12.0	123.00
400	300	12.5	127.00
400	300	16.0	159.00

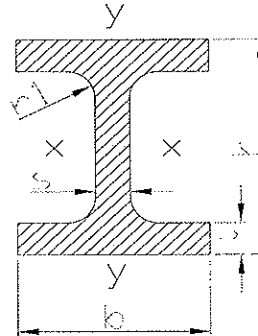
AGT GERMAN TECHNICS

Industrial Components and Equipment

HEB Beams

Hot Rolled - H/I Beams DIN 1025

DIN 1025, Teil 2, 3,94



Norminal Size mm	<i>h</i>	<i>b</i>	<i>s</i>	<i>t</i>	<i>r₁</i>	Cross Sectional area cm ²	Theoretical Wt. kg/m
100	100	100	6	10	12	26.0	20.9
120	120	120	6.5	11	12	34.0	27.4
140	140	140	7	12	12	43.0	34.5
160	160	160	8	13	15	54.3	43.7
180	180	180	8.5	14	15	65.3	52.5
200	200	200	9	15	18	78.1	63.0
220	220	220	9.5	16	18	91.0	73.0
240	240	240	10	17	21	106.0	85.0
260	260	260	10	17.5	24	118.0	95.0
280	280	280	10.5	18	24	131.0	109.0
300	300	300	11	19	27	149.0	120.0
320	320	300	11.5	20.5	27	161.0	130.0
340	340	300	12	21.5	27	171.0	137.0
360	360	300	12.5	22.5	27	181.0	146.0
400	400	300	13.5	24	27	198.0	159.0
450	450	300	14	26	27	218.0	175.0
500	500	300	14.5	28	27	239.0	192.0
550	550	300	15	29	27	254.0	204.0
600	600	300	15.5	30	27	270.0	217.0
650	650	300	16	31	27	286.0	231.0
700	700	300	17	32	27	306.0	247.0
800	800	300	17.5	33	30	334.0	269.0
900	900	300	18.5	35	30	371.0	298.0
1000	1000	300	19	36	30	400.0	322.0

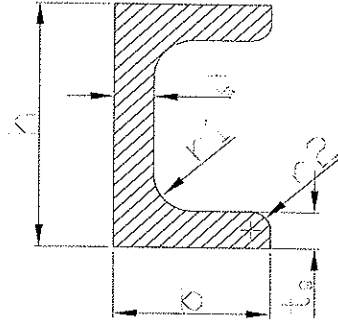
AGT GERMAN TECHNICS

Industrial Components and Equipment

UNP Beams

Hot Rolled DIN 1026

Normal Length 6 - 15 m



Sizes mm	h	b	t_s	$t_g = r_1$	r_2	Area cm ²	Theoretical Wt. kg/m
30x15	30	15	4	4.5	2	2.21	1.79
30	30	33	5	7	3.5	5.44	4.40
40x20	40	20	5	5.5	2.5	3.66	2.96
40	40	35	5	7	3.5	6.21	5.02
50x25	50	25	5	6	3	4.92	3.98
50	50	38	5	7	3.5	7.12	5.76
60x30	60	30	6	6	3	6.46	5.22
65	65	42	5.5	7.5	4	9.03	7.30
80	80	45	6	8	4	11.0	8.9
100	100	50	6	8.5	4.5	13.5	10.9
120	120	55	7	9	4.5	17.0	13.7
140	140	60	7	10	5	20.4	16.4
160	160	65	7.5	10.5	5.5	24.0	19.3
180	180	70	8	11	5.5	28.0	22.5
200	200	75	8.5	11.5	6	32.2	26.0
220	220	80	9	12.5	6.5	37.4	30.0
240	240	85	9.5	13	6.5	42.3	34.0
260	260	90	10	14	7	48.3	39.0
280	280	95	10	15	7.5	53.3	43.0
300	300	100	10	16	8	58.8	48.0
320	320	100	14	17.5	8.75	75.8	61.0
350	350	100	14	16	8	77.3	62.0
380	380	102	13.5	16	8	80.4	65.0
400	400	110	14	18	9	91.5	74.0

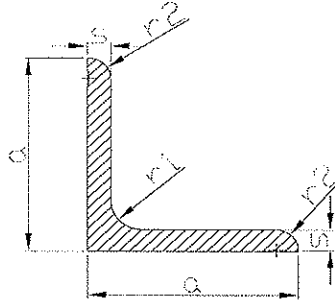
UNP,Angles,Tol4830

AGT GERMAN TECHNICS

Industrial Components and Equipment

ANGLE BEAMS
Hot Rolled DIN 1028

DIN EN 10056



Norminal size <i>L a x s</i> mm	Area cm^2	Theoretical Wt. kg/m
20x3	1.12	0.88
25x3	1.42	1.12
25x4	1.85	1.45
30x3	1.74	1.36
30x4	2.27	1.78
(30x5)	2.78	2.18
35x4	2.67	2.10
35x5	3.28	2.57
40x4	3.08	2.42
40x5	3.79	2.97
45x4	3.49	2.74
45x5	4.30	3.38
50x5	4.80	3.77
50x6	5.69	4.47
50x7	6.56	5.15
(55x6)	6.31	4.95
60x5	5.82	4.57
60x6	6.91	5.42
60x8	9.03	7.09
65x7	8.70	6.83
(70x6)	8.13	6.38
70x7	9.40	7.38
70x9	11.9	9.34
75x7	10.1	7.94
75x8	11.5	9.03

Norminal size mm	Area cm^2	Theoretical Wt. kg/m
80x6	9.35	7.34
80x8	12.3	9.65
80x10	15.1	11.9
90x7	12.2	9.61
90x9	15.5	12.2
100x8	15.5	12.2
100x10	19.2	15.1
100x12	22.7	17.8
110x10	21.2	16.6
120x10	23.2	18.2
(120x11)	25.4	19.9
120x12	27.5	21.6
130x12	30.0	23.6
140x13	35.0	27.5
150x12	34.8	27.3
(150x14)	40.3	31.6
150x15	43.0	33.8
160x15	46.1	36.2
(160x17)	51.8	40.7
180x16	55.4	43.5
180x18	61.9	48.6
200x16	61.8	48.5
(200x18)	69.1	54.3
200x20	76.4	59.9
200x24	90.6	71.1