

Flats – cold drawn

According to EN 10277-1, tolerances h11,
grade acc. to EN 10088-3: 1.4301 / 1.4307

Méplats – étirés à froid

Conformes à EN 10277-1, tolérances h11,
nuance selon EN 10088-3: 1.4301 / 1.4307

Flachstahl – kalt gezogen

Gemäß EN 10277-1, Toleranzen h11,
Güte nach EN 10088-3: 1.4301 / 1.4307



a	t																
	2	3	4	5	6	8	10	12	15	20	25	30	35	40	45	50	60
8	0.13	0.19	0.26	0.32	0.38												
10	0.16	0.24	0.32	0.40	0.48	0.64											
12		0.29	0.38	0.48	0.57	0.76	0.96										
15		0.36	0.48	0.60	0.72	0.96	1.20	1.44									
16		0.38	0.51	0.64	0.77	1.02	1.28	1.54									
18		0.43	0.58	0.72	0.86	1.15	1.44	1.73	2.16								
20		0.48	0.64	0.80	0.96	1.44	1.60	1.92	2.40								
25		0.60	0.80	1.00	1.20	1.60	2.00	2.40	3.00	4.00							
30		0.72	0.96	1.20	1.44	1.92	2.40	2.88	3.60	4.80	6.00						
35		0.84	1.12	1.40	1.68	2.24	2.80	3.36	4.20	5.60	7.00	8.40					
40		0.96	1.28	1.60	1.92	2.56	3.20	3.84	4.80	6.40	8.00	9.60	11.2				
45		1.08	1.44	1.80	2.16	2.72	3.60	4.32	5.40	7.20	9.00	10.8	12.6	14.4			
50		1.20	1.60	2.00	2.40	3.20	4.00	4.80	6.00	8.00	10.0	12.0	14.0	16.0			
60		1.44	1.92	2.40	2.88	3.84	4.80	5.76	7.20	9.60	12.0	14.4	16.8	19.2	21.6	24.0	
70			2.24	2.80	3.36	4.48	5.60	6.56	8.40	11.2	14.0	16.8	19.6	24.0	25.2	28.0	36.0
80			2.56	3.20	3.84	5.12	6.40	7.68	9.60	12.8	16.0	19.2	22.4	25.6	28.8	32.0	38.4
90				3.60	4.32	5.76	7.20	8.64	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	43.2
100				4.00	4.80	6.40	8.00	9.60	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	48.0

Poid – Weight – Gewicht
kg/m



Flats – cold drawn

According to EN 10277-1, tolerances h11,
grade acc. to EN 10088-3: 1.4301 / 1.4307

Méplats – étirés à froid

Conformes à EN 10277-1, tolérances h11,
nuance selon EN 10088-3: 1.4301 / 1.4307

Flachstahl – kalt gezogen

Gemäß EN 10277-1, Toleranzen h11,
Güte nach EN 10088-3: 1.4301 / 1.4307



a	t																
	2	3	4	5	6	8	10	12	15	20	25	30	35	40	45	50	60
120					5.76	7.68	9.60	11.5	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0	57.6
125					6.00	8.00	10.0	12.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0
130					6.24	8.32	10.4	12.5	15.6	20.8	26.0	31.2					
140					6.72	8.96	11.2	13.4	16.8	22.4	28.0	33.6					
150					7.20	9.60	12.0	14.4	18.0	24.0	30.0	36.0					
160					7.68	10.2	12.8	15.4	19.2	25.6	32.0	38.4					
180					8.64	11.5	14.4	17.2	21.6	28.8	36.0	43.2					
200					9.60	12.8	16.0	19.2	24.0	32.0	40.0	48.0					
220						14.1	17.6	21.1	26.4	35.2							
250						16.0	20.0	24.0	30.0	40.0							
Poid – Weight – Gewicht kg/m																	

Flats – cold drawn

According to EN 10277-1, tolerances h11,
grade acc. to EN 10088-3: 1.4401 / 1.4404, 1.4571

Méplats – étirés à froid

Conformes à EN 10277-1, tolérances h11,
nuance selon EN 10088-3: 1.4401 / 1.4404, 1.4571



Flachstahl – kalt gezogen

Gemäß EN 10277-1, Toleranzen h11,
Güte nach EN 10088-3: 1.4401 / 1.4404, 1.4571

a	t																
	2	3	4	5	6	8	10	12	15	20	25	30	35	40	45	50	60
8	0.13	0.19	0.26	0.32	0.38												
10	0.16	0.24	0.32	0.40	0.48	0.64											
12		0.29	0.38	0.48	0.57	0.76	0.96										
15		0.36	0.48	0.60	0.72	0.96	1.20	1.44									
16		0.38	0.51	0.64	0.77	1.02	1.28	1.54									
18		0.43	0.58	0.72	0.86	1.15	1.44	1.73	2.16								
20		0.48	0.64	0.80	0.96	1.44	1.60	1.92	2.40								
25		0.60	0.80	1.00	1.20	1.60	2.00	2.40	3.00	4.00							
30		0.72	0.96	1.20	1.44	1.92	2.40	2.88	3.60	4.80	6.00						
35		0.84	1.12	1.40	1.68	2.24	2.80	3.36	4.20	5.60	7.00	8.40					
40		0.96	1.28	1.60	1.92	2.56	3.20	3.84	4.80	6.40	8.00	9.60	11.2				
45		1.08	1.44	1.80	2.16	2.72	3.60	4.32	5.40	7.20	9.00	10.8	12.6	14.4			
50		1.20	1.60	2.00	2.40	3.20	4.00	4.80	6.00	8.00	10.0	12.0	14.0	16.0			
60		1.44	1.92	2.40	2.88	3.84	4.80	5.76	7.20	9.60	12.0	14.4	16.8	19.2	21.6	24.0	
70			2.24	2.80	3.36	4.48	5.60	6.56	8.40	11.2	14.0	16.8	19.6	24.0	25.2	28.0	36.0
80			2.56	3.20	3.84	5.12	6.40	7.68	9.60	12.8	16.0	19.2	22.4	25.6	28.8	32.0	38.4
90				3.60	4.32	5.76	7.20	8.64	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	43.2
100				4.00	4.80	6.40	8.00	9.60	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	48.0

Poid – Weight – Gewicht
kg/m



Flats – cold drawn

According to EN 10277-1, tolerances h11,
grade acc. to EN 10088-3: 1.4401 / 1.4404, 1.4571

Méplats – étirés à froid

Conformes à EN 10277-1, tolérances h11,
nuance selon EN 10088-3: 1.4401 / 1.4404, 1.4571



Flachstahl – kalt gezogen

Gemäß EN 10277-1, Toleranzen h11,
Güte nach EN 10088-3: 1.4401 / 1.4404, 1.4571

a	t																
	2	3	4	5	6	8	10	12	15	20	25	30	35	40	45	50	60
120					5.76	7.68	9.60	11.5	14.4	19.2	24.0	28.8	33.6	38.4	43.2	48.0	57.6
125					6.00	8.00	10.0	12.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	60.0
130					6.24	8.32	10.4	12.5	15.6	20.8	26.0	31.2					
140					6.72	8.96	11.2	13.4	16.8	22.4	28.0	33.6					
150					7.20	9.60	12.0	14.4	18.0	24.0	30.0	36.0					
160					7.68	10.2	12.8	15.4	19.2	25.6	32.0	38.4					
180					8.64	11.5	14.4	17.2	21.6	28.8	36.0	43.2					
200					9.60	12.8	16.0	19.2	24.0	32.0	40.0	48.0					
220						14.1	17.6	21.1	26.4	35.2							
250						16.0	20.0	24.0	30.0	40.0							
Poid – Weight – Gewicht kg/m																	

Flats – cold drawn

According to EN 10277-1, tolerances h11,
grade acc. to EN 10088-3: 1.4305

Méplats – étirés à froid

Conformes à EN 10277-1, tolérances h11,
nuance selon EN 10088-3: 1.4305



Flachstahl – kalt gezogen

Gemäß EN 10277-1, Toleranzen h11,
Güte nach EN 10088-3: 1.4305

a	t															
	3	4	5	6	8	10	12	15	20	25	30	35	40	45	50	60
10	0.24	0.32	0.40	0.48	0.64											
12	0.29	0.38	0.48	0.57	0.76	0.96										
15	0.36	0.48	0.60	0.72	0.96	1.20	1.44									
16	0.38	0.51	0.64	0.77	1.02	1.28	1.54									
18	0.43	0.58	0.72	0.86	1.15	1.44	1.73	2.16								
20	0.48	0.64	0.80	0.96	1.44	1.60	1.92	2.40								
25	0.60	0.80	1.00	1.20	1.60	2.00	2.40	3.00	4.00							
30	0.72	0.96	1.20	1.44	1.92	2.40	2.88	3.60	4.80	6.00						
35		1.12	1.40	1.68	2.24	2.80	3.36	4.20	5.60	7.00	8.40					
40		1.28	1.60	1.92	2.56	3.20	3.84	4.80	6.40	8.00	9.60	11.2				
45		1.44	1.80	2.16	2.72	3.60	4.32	5.40	7.20	9.00	10.8	12.6	14.4			
50			2.00	2.40	3.20	4.00	4.80	6.00	8.00	10.0	12.0	14.0	16.0			
60			2.40	2.88	3.84	4.80	5.76	7.20	9.60	12.0	14.4	16.8	19.2	21.6	24.0	
70				3.36	4.48	5.60	6.56	8.40	11.2	14.0	16.8	19.6	24.0	25.2	28.0	
80				3.84	5.12	6.40	7.68	9.60	12.8	16.0	19.2	22.4	25.6	28.8	32.0	38.4
90					5.76	7.20	8.64	10.8	14.4	18.0	21.6	25.2	28.8	32.4	36.0	43.2
100					6.40	8.00	9.60	12.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	48.0
120						9.60	11.5	14.4	19.2	24.0	28.8	33.6	38.4			
130						10.4	12.5	15.6	20.8	26.0	31.2					
140						11.2	13.4	16.8	22.4	28.0	33.6					

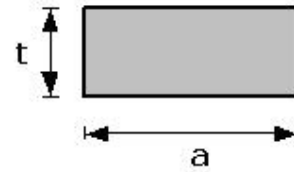
Poid – Weight – Gewicht
kg/m

Key steel – cold drawn

According to DIN 6880, tolerances h9,
grade acc. to EN 10088-3: 1.4301, 1.4307, 1.4404

Clavette – étirés à froid

Conformes à – DIN 6880, tolérances h9,
nuance selon EN 10088-3: 1.4301, 1.4307, 1.4404



Keilstahl – kalt gezogen

Gemäß DIN 6880, Toleranzen h9,
Güte nach EN 10088-3: 1.4301, 1.4307, 1.4404 und 1.4571

		t															
a	3	4	5	6	7	8	9	10	11	12	14	16	18	20	22	25	
3	0,07																
4		0,13															
5	0,12		0,20														
6				0,28													
8			0,31	0,38	0,44												
10				0,47		0,63											
12				0,57		0,75		0,94									
14				0,66			0,99										
16								1,26									
18					0,99				1,56								
20						1,26				1,88							
22							1,55				2,42						
25												2,75					
28								2,20					3,52				
32														4,52			
36															5,65		
40																6,91	
45																	8,83

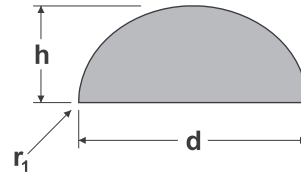
Poid – Weight – Gewicht
kg/m

Half rounds & flat half rounds

Cold finished, tolerances according to DIN 1018,
bright surface 2H, grade according to EN 10088-3

Demi rond et demi rond plat

Finis à froid selon, tolérances selon DIN 1018,
surface 2H, nuance selon EN 10088-3: 1D



Halbrund und Flachhalbrund

Kalt gefertigt, Toleranzen nach DIN 1018,
blanke Oberfläche 2H, Güte nach EN 10088-3

Désignation Designation Bezeichnung	Dimensions Abmessungen			Poid Weight Gewicht
	d mm	h mm	r ₁ mm	G kg/m
10x3.5	10	3.5	<1.0	0.20
12x6	12	6	<1.0	0.45
12.7x3.8	12.7	3.8	<1.0	0.30
14x4	14	4	<1.0	0.33
15x5	15	5	<1.0	0.44
16x6	16	6	<1.0	0.56
16x8	16	8	<1.0	0.78
18x5.3	18	5.3	<1.0	0.58
18x9	18	9	<1.0	1.02
19x4.8	19	4.8	<1.0	0.54
20x4	20	4	<1.0	0.47
20x6	20	6	<1.0	0.69
20x10	20	10	<1.0	1.23
21.5x5.5	21.5	5.5	<1.0	0.68
25.4x6.3	25.4	6.3	<1.0	0.94
25x7	25	7	<1.0	1.04
25x10	25	10	<1.0	1.48
30x9	30	9	<1.0	1.57
31.8x6.3	31.8	6.3	<1.0	1.18
31.8x8	31.8	8	<1.0	1.44
38x9.5	38	9.5	<1.5	2.11
38x15	38	15	<1.5	3.43
40x8	40	8	<1.5	1.75
40x20	40	20	<2.0	4.95
50x12.5	50	12.5	<2.0	3.40
50x25	50	25	<2.0	7.75