

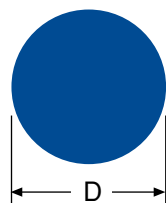
PROFILATI

Norme di riferimento: UNI EN 10025 - prodotti laminati a caldo di acciai per impieghi strutturali.



PROFILATI

TONDI



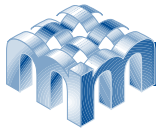
QUADRI



D mm	peso kg/m
5	0.154
6	0.222
7	0.302
8	0.395
9	0.499
10	0.617
11	0.746
12	0.888
13	1.04
14	1.21
15	1.39
16	1.58
17	1.78
18	2.00
19	2.23
20	2.47
21	2.72
22	2.96
23	3.26
24	3.55
25	3.85
26	4.17
27	4.49
28	4.83
30	5.55
32	6.31
33	6.71
34	7.13
35	7.55
36	7.99
37	8.44
38	8.90
40	9.86
42	10.90
45	12.50
48	14.20
50	15.40
52	16.70

D mm	peso kg/m
53	17.30
55	18.70
58	20.70
60	22.20
63	24.50
65	26.00
68	28.50
70	30.20
73	32.90
75	34.70
78	37.50
80	39.50
83	42.50
85	44.50
88	47.70
90	49.90
95	55.60
100	61.60
105	68.00
110	74.60
115	81.50
120	88.80
125	96.30
130	104
135	112
140	121
145	130
150	139
155	148
160	158
170	178
180	200
190	223
200	247
220	289
230	326.19
240	355.16
250	385.38

L mm	peso kg/m
5	0.196
6	0.283
7	0.385
8	0.502
9	0.636
10	0.785
11	0.950
12	1.13
13	1.33
14	1.54
15	1.77
16	2.01
18	2.54
19	2.83
20	3.14
22	3.80
25	4.91
26	5.31
28	6.15
30	7.07
32	8.04
35	9.62
38	11.3
40	12.6
45	15.9
50	19.6
55	23.7
60	28.3
65	33.2
70	38.5
80	50.2
90	63.6
100	76.5
110	95.0
120	113
130	133
140	154
150	177



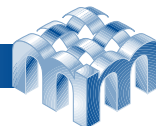
PROFILATI

PIATTI



* non unificato

L mm	s mm																
	3	4	5	6	7	8	10	12	15	18	20	25	30	35	40	50	60
	peso kg/m																
10	0.236	0.314	0.393	0.471													
12	0.283	0.377	0.471	0.565		0.754											
14	0.330	0.440	0.550	0.659		0.879											
15	0.351	0.468	0.585	0.702		0.936	1.17										
16	0.377	0.502	0.628	0.754		1.00	1.26										
18	0.424	0.565	0.707	0.848		1.13	1.41										
20	0.471	0.628	0.785	0.942	1.10	1.26	1.57	1.88	2.36								
22	0.518	0.691	0.864	1.04	1.21	1.38	1.73	2.07	2.59								
25	0.589	0.785	0.981	1.18	1.37	1.57	1.96	2.36	2.94								
30	0.707	0.942	1.18	1.41	1.64	1.88	2.36	2.83	3.53	4.24	4.71						
35	0.824*	1.10	1.37	1.65	1.92	2.20	2.75	3.30	4.12	4.94	5.50	6.87					
40	0.942*	1.26	1.57	1.88	2.19	2.51	3.14	3.77	4.71	5.65	6.28	7.85	9.42				
45	1.06*	1.41	1.77	2.12	2.47	2.83	3.53	4.24	5.30	6.36	7.07	8.83	10.60*				
50	1.18*	1.57	1.96	2.36	2.75	3.14	3.93	4.71	5.89	7.06	7.85	9.81	11.80	13.74*	15.70*		
55		1.73	2.16	2.59		3.45	4.32	5.18	6.48	7.77	8.64	10.80	13.00				
60	1.41*	1.88	2.36	2.83	3.30	3.77	4.71	5.65	7.07	8.48	9.42	11.80	14.10		18.80	23.60	
65		2.04	2.55	3.06		4.08	5.10	6.12	7.65	9.18	10.20	12.80	15.30		20.40		
70	1.65*	2.20	2.75	3.30	3.85	4.40	5.50	6.59	8.24	9.89	11.00	13.70	16.50		22.00	27.50	33.00
75		2.36	2.94	3.53		4.71	5.89	7.07	8.83	10.60	11.80	14.70	17.70		23.60	29.40	
80	1.88*	2.51	3.14	3.77		5.02	6.28	7.54	9.42	11.30	12.60	15.70	18.80		25.10	31.40	37.70
90	2.12*	2.83	3.53	4.24		5.65	7.07	8.48	10.60	12.72	14.10	17.70	21.20		28.30	35.30	42.40
100	2.35*	3.14*	3.93	4.71		6.28	7.85	9.42	11.80	14.13	15.70	19.60	23.60		31.40	39.25	47.10
110				5.18		6.91	8.64	10.40	13.00		17.30	21.60	25.90		34.50	43.20	51.80
120	2.82	3.77	4.71	5.65		7.54	9.42	11.30	14.10		18.80	23.60	28.30		37.70	47.10	56.50
130				6.12		8.16	10.20	12.20	15.30		20.40	25.50	30.60		40.80	51.00	61.20
140	3.30	4.40	5.50			8.79	11.00	13.20	16.50		22.00	27.50	33.00		44.00	55.00	66.00
150	3.53*	4.71*	5.89*	7.06*		9.42	11.80	14.10	17.70		23.60	29.40	35.30		47.10	58.90	70.60



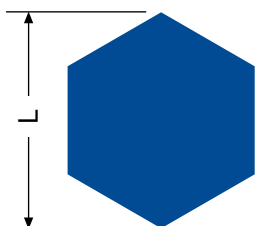
PROFILATI

LARGHI PIATTI



L mm	s mm												
	5	6	8	10	12	15	20	25	30	35	40	50	60
	peso kg/m												
160	6.28	7.54	10.0	12.6	15.1	18.8	25.1	31.4	37.7				
170	6.67	8.01	10.7	13.3	16.0	20.0	26.7	33.4	40.3				
180		8.48	11.3	14.1	17.0	21.2	28.3	35.3	42.4				
190			11.9	14.9	17.9	22.4	29.8	37.3	44.7				
200			12.6	15.7	18.8	23.6	31.4	39.2	47.1				
220			13.8	17.3	20.7	25.9	34.5	43.2	51.8	60.4	69.1		
250			15.7	19.6	23.6	29.4	39.2	49.1	58.9	68.7	78.5		
280			17.6	22.0	26.4	33.0	44.0	55.0	65.9	76.9	87.9		
300			18.8	23.6	28.3	35.3	47.1	58.9	70.6	82.4	94.2		
350	13.65	16.38	21.84	27.30	32.76	40.95	54.60	68.25	81.90	95.55	109.20	134.50	163.80
400	15.60	18.72	24.96	31.20	37.44	46.80	62.40	78.00	93.60	106.08	124.80	156.00	187.20
450	17.55	21.06	28.08	35.10	42.12	52.65	70.20	87.75	105.30	122.85	140.00	175.50	210.60
500	19.50	23.40	31.20	39.00	46.80	58.50	78.00	97.50	117.00	136.50	156.00	195.00	234.00

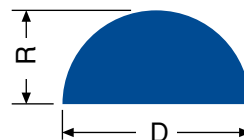
ESAGONO- TRAFILATO A FREDDO



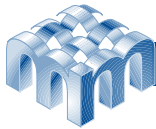
L mm	peso kg/m
5	0.154
6	0.245
7	0.333
8	0.435
9	0.551
10	0.680
11	0.823
12	0.979
13	1.149
14	1.332
15	1.530
16	1.740
17	1.965
18	2.203
19	2.454
20	2.719
21	2.998
22	3.290
24	3.916
25	4.249

L mm	peso kg/m
27	4.956
28	5.330
30	6.118
32	6.960
35	8.328
36	8.811
38	9.817
40	10.88
42	12.60
45	13.77
50	17.00
55	20.56
60	24.48
65	28.72
70	33.32
75	38.24
80	43.51
90	55.07
100	67.98

MEZZOTONDO

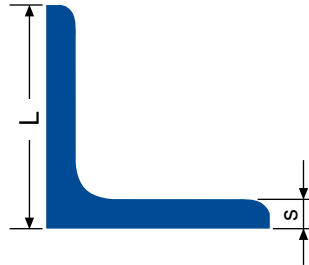


D mm	R mm	peso kg/m
15	4	0.332
15	5	0.425
20	5	0.549
20	6	0.671
25	6	0.820
30	8	1.320
35	10	1.950
40	10	2.190

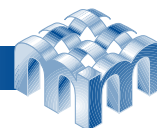


PROFILATI

L AD ALI UGUALI E SPIGOLI ARRTONDATI



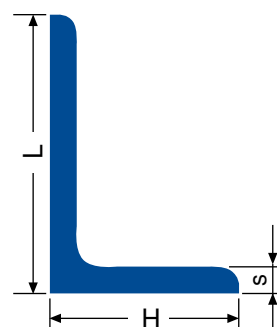
L mm	s mm																			
	3	4	5	6	6.5	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
peso kg/m																				
15	0.63																			
20	0.88	1.14																		
25	1.12	1.46	1.78																	
30	1.36	1.78	2.18	2.58																
35	1.60	2.09	2.57	3.04																
40	1.84	2.42	2.97	3.52																
45	2.09	2.74	3.38	4.00		4.60														
50	2.35	3.06	3.77	4.47		5.15	5.82	6.17												
55		3.35	4.16	4.95		5.70	6.46													
60		3.70	4.57	5.42		6.24	7.09		8.69											
65		4.02	4.96	5.91		6.83	7.73													
70		4.35	5.37	6.38		7.38	8.36	9.34	10.30	11.20										
75		4.72	5.78	6.87		7.94	9.03		11.10		13.10									
80		5.02	6.04	7.34		8.49	9.63		11.90		14.00									
90			6.87	8.20		9.58	10.90	12.20	13.40	14.70	15.90			19.50						
100			7.65	9.22		10.80	12.20	13.60	15.10	16.40	17.80		20.60		24.20					
110				11.20		13.00	13.50		16.60		19.70		22.80							
120				11.20		13.00	14.75		18.20	19.20	21.60	23.30	25.00	26.60			31.50			
130					12.90	13.90	15.95	17.85	19.80	21.60	23.60		27.20		30.90					
140													27.50		31.40		35.30			
150														31.60	33.80	35.90		40.10		
160															36.20		40.70		45.10	
180																43.50		48.60		53.70
200																48.50		54.30		59.90



PROFILATI

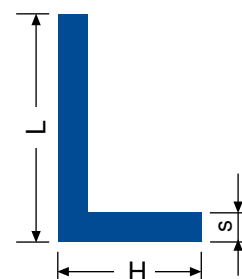
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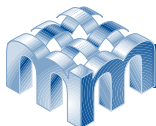
L mm	H mm	s mm												
		4	5	6	7	8	9	10	11	12	14	15	16	
		peso kg/m												
30	20	1.46	1.78											
35	20	1.61	1.97											
40	20	1.77	2.17											
	25	1.93	2.37											
45	30	2.25	2.76	3.27										
50	30		2.96											
60	30		3.37	3.99	4.59									
	40		3.76	4.46	5.14									
75	50			5.65	6.53		8.22							
80	40			5.41	6.25	7.07								
	60				7.36	8.34		10.20						
100	50					8.99		11.10						
	65				8.77		11.10	12.30	13.40					
110	75					11.12		13.73						
120	60					10.90		13.40						
	80					12.20		15.00	17.80	20.50				
130	65					11.80		14.60	17.30					
150	100							19.30	22.60	26.10				
160	80						16.40		21.60	25.00				
200	90								26.30		32.50			
	100								27.30	31.60	35.90			



L AD ALI DISUGUALI E SPIGOLI VIVI

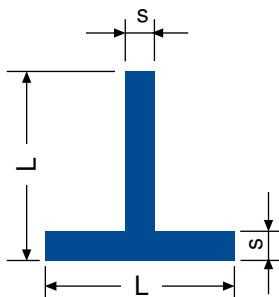
L mm	H mm	s mm						
		4	4.5	5	5.5	6	6.5	7
		peso kg/m						
20	12	0.88						
25	15		1.25					
30	17.5			1.67				
35	20				2.14			
40	22					2.64		
45	30						3.50	
50	30					3.49		4.01
60	35						4.50	





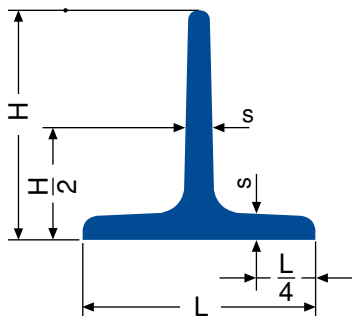
PROFILATI

T A SPIGOLI VIVI



L mm	s mm											
	4	4.5	5	5.5	6	6.5	7	8	9	10	11	
20	1.13											
25		1.61										
30			2.16									
35				2.78								
40					3.49							
45						4.26						
50							5.11					
60								7.03				
70									9.26			
80										11.90		
100											16.30	

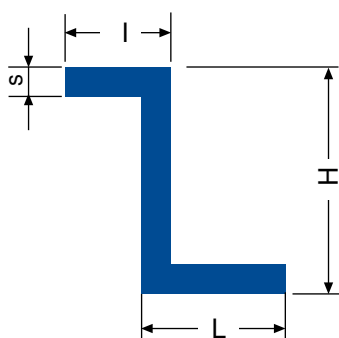
T A SPIGOLI ARROTONDATI



* non unificato

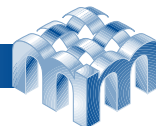
L mm	H mm	s mm					
		5.5	7	8	9	11	13
60	30*	3.65					
	60		6.23				
70	70			8.23			
80	80				10.70		
100	100					16.40	
120	120						23.20

Z A SPIGOLI VIVI E BASI DISUGUALI



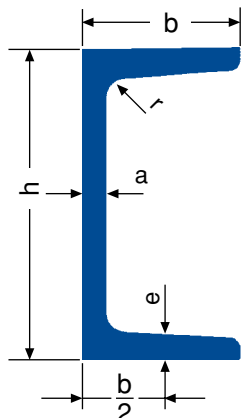
* non unificato

H mm	L mm	l mm	s mm							
			4	4.5	5	5.5	6	6.5	7	
20	14	12	1.19							
25	15*	13*		1.55						
30	17	14*			2.00					
35	19*	16				2.55				
40	21*	17*					3.11			
45	23	19						3.78		
50	25	21								4.51



PROFILATI

U SERIE SPECIALE



* non unificato

h	b	a	e	r	sezione	peso	momenti di inerzia		moduli di resistenza		raggi di inerzia	
							Jx	Jy	Wx	Wy	ix	iy
mm	mm	mm	mm	mm	cm ²	kg/m	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm
*25	12	4	4	4	1.68	1.32						
30	15	4	4.5	4.5	2.21	1.74	2.53	0.38	1.69	0.39	1.07	0.42
30	33	5	7	7	5.44	4.27	6.39	5.33	4.26	2.68	1.08	0.99
*35	17	5	5.5	5.5	3.27	2.56						
40	20	5	5.5	5	3.66	2.87	7.58	1.14	3.79	0.86	1.44	0.56
40	35	5	7	7	6.21	4.87	14.10	6.68	7.05	3.08	1.50	1.04
50	25	5	6	6	4.92	3.86	16.80	2.49	6.73	1.48	1.85	0.71
50	38	5	7	7	7.12	5.59	26.40	9.12	10.60	3.75	1.92	1.13
60	30	6	6	6	6.46	5.07	31.60	4.51	10.50	2.16	2.21	0.84
65	42	5.5	7.5	7.5	9.03	7.09	57.50	14.10	17.70	5.07	2.52	1.25

U SERIE NORMALE

h	b	a	e	r	sezione	peso	momenti di inerzia		moduli di resistenza		raggi di inerzia	
							Jx	Jy	Wx	Wy	ix	iy
mm	mm	mm	mm	mm	cm ²	kg/m	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm
80	45	6	8	8	11.0	8.65	106	19.4	26.5	6.35	3.10	1.33
100	50	6	8.5	8.5	13.5	10.6	205	29.1	41.1	8.45	3.91	1.47
120	55	7	9	9	17.0	13.3	364	43.1	60.7	11.1	4.63	1.59
140	60	7	10	10	20.4	16.0	605	62.5	86.4	14.7	5.45	1.75
160	65	7.5	10.5	10.5	24.0	18.9	925	85.1	116	18.2	6.21	1.88
180	70	8	11	11	28.0	22.0	1354	114	150	22.4	6.96	2.01
200	75	8.5	11.5	11.5	32.2	25.3	1911	148	191	26.9	7.71	2.14
220	80	9	12.5	12.5	37.4	29.4	2691	196	245	33.5	8.48	2.29
240	85	9.5	13	13	42.3	33.2	3599	247	300	39.5	9.22	2.42
260	90	10	14	14	48.3	37.9	4824	317	371	47.8	10.0	2.56
280	95	10	15	15	53.4	41.9	6276	398	448	57.2	10.8	2.73
300	100	10	16	16	58.8	46.1	8028	493	535	67.6	11.7	2.90

PROFILATI
UNI EN 10279 : 2002 - Tolleranze per profili ad U con ali a facce inclinate e ali a facce parallele

Tabella 1

Fig. 1	Caratteristica	Gamma mm	Tolleranza mm
	Altezza h	h ≤ 65 65 < h ≤ 200 200 < h ≤ 400 400 < h	± 1,5 ± 2,0 ± 3,0 ± 4,0
	Larghezza dell'ala b	b ≤ 50 50 < b ≤ 100 100 < b ≤ 125 125 < b	± 1,5 ± 2,0 ± 2,5 ± 3,0
	Spessore dell'anima s	s ≤ 10 10 < s ≤ 15 15 < s	± 0,5 ± 0,7 ± 1,0
	Spessore dell'ala t	t ≤ 10 10 < t ≤ 15 15 < t	a) - 0,5 a) - 1,0 a) - 1,5
	Raggio di arrotondamento Degli spigoli r ₃	Tutte le dimensioni	≤ 0,3t
	a) Le tolleranze in più sullo spessore dell'ala risultano limitate dalle tolleranze di massa		

Tabella 2

Fig. 3	Caratteristica	Gamma mm	Tolleranza mm
	Tolleranza di perpendicolarità K+K ₁	b ≤ 100 100 < b	2,0 2,5% di b
	Incurvamento dell'anima b	h ≤ 100 100 < h ≤ 200 200 < h ≤ 400 400 < h	± 0,5 ± 1,0 ± 1,5 ± 1,5

Tabella 3

Fig. 5	Caratteristica	Gamma mm	Tolleranza mm
	Rettilinearità q _{XX}	h ≤ 150 150 < h ≤ 300 300 < h	± 0,3% di l ± 0,2% di l ± 0,15% di l
	q _{YY}	h ≤ 150 150 < h ≤ 300 300 < h	± 0,5% di l ± 0,3% di l ± 0,2% di l
Tolleranza corrente Tolleranza alternativa (mediante accordo)	Lunghezza l	Tutte le dimensioni Tutte le dimensioni	+100 0 ± 50
Massa per unità di lunghezza	Kg/m	h < 125 125 < h	± 6% ± 4%