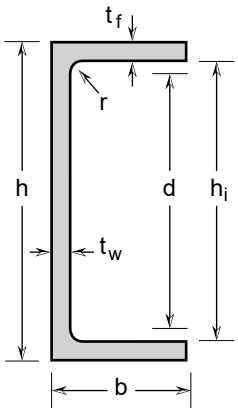
MC



Miscellaneous channels

Hot rolled
dimensional tolerances and grades according to ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

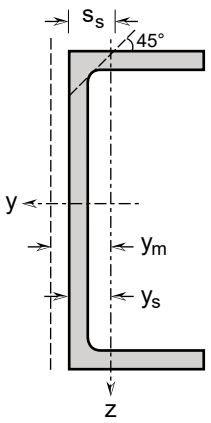
Laser fused
according to ASTM A1069, dimensional tolerances and grades, according to ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

Stainless steel
Standard stainless steel grades 304/L and 316/L
Annealed and pickled, lengths of 6000 -0/+100 mm

General properties									
Designation	Dimensions							Dimensions for detailing	
	G kg/m	h mm	b mm	t_w mm	t_f mm	r mm	A mm^2 $x10^2$	h_i mm	d mm
MC 40 x 20 x 3	1.8	40	20	3	3	3	2.26	34.0	28.0
MC 50 x 25 x 3	2.3	50	25	3	3	3	2.86	44.0	38.0
MC 60 x 30 x 5	4.5	60	30	5	5	5	5.61	50.0	40.0
MC 60 x 30 x 6	5.3	60	30	6	6	6	6.63	48.0	36.0
MC 80 x 40 x 4*	4.9	80	40	4	4	2	6.10	72.0	68.0
MC 80 x 40 x 5	6.1	80	40	5	5	6	7.65	70.0	58.0
MC 80 x 40 x 6	7.2	80	40	6	6	6	9.03	68.0	56.0
MC 100 x 50 x 4	6.3	100	50	4	4	6	7.83	92.0	80.0
MC 100 x 50 x 5	7.7	100	50	5	5	6	9.65	90.0	78.0
MC 100 x 50 x 6	9.1	100	50	6	6	6	11.43	88.0	76.0
MC 120 x 60 x 6	11.1	120	60	6	6	6	13.83	108.0	96.0
MC 130 x 65 x 6	12.0	130	65	6	6	6	15.03	118.0	106.0
MC 150 x 75 x 6	13.8	150	75	6	6	2	17.30	138.0	134.0
MC 150 x 75 x 9*	20.3	150	75	9	9	2	25.40	132.0	128.0
MC 200 x 100 x 6*	18.6	200	100	6	6	2	23.30	188.0	184.0
MC 200 x 100 x 9*	27.5	200	100	9	9	2	34.40	182.0	178.0
MC 200 x 100 x 10*	30.4	200	100	10	10	2	38.02	180.0	176.0

Profiles are * only available as laser fused with full penetration, non tapered, equivalent to hot rolled (r = laser seam).

MC



Structural properties														
Designation	Strong axis y-y					Weak axis z-z								
	I_y mm^4 x10^4	$W_{el.y}$ mm^3 x10^3	$W_{pl.y}$ mm^3 x10^3	i_y mm x10	A_{vz} mm^2 x10^2	I_z mm^4 x10^4	$W_{el.z}$ mm^3 x10^3	$W_{pl.z}$ mm^3 x10^3	i_z mm x10	S_s mm	I_t mm^4 x10^4	I_w mm^6 x10^9	y_s mm x10	y_m mm x10
MC 40 x 20 x 3	5.20	2.60	3.21	1.52	1.24	0.81	0.58	1.04	0.60	7.77	0.10	0.002	0.61	1.12
MC 50 x 25 x 3	10.60	4.24	5.14	1.93	1.54	1.65	0.93	1.68	0.76	7.77	0.12	0.006	0.73	1.43
MC 60 x 30 x 5	28.59	9.53	11.89	2.26	3.11	4.46	2.15	3.86	0.89	12.96	0.72	0.023	0.93	1.66
MC 60 x 30 x 6	32.71	10.90	13.88	2.22	3.75	5.13	2.52	4.51	0.88	15.55	1.32	0.025	0.96	1.61
MC 80 x 40 x 4*	58.91	14.73	17.47	3.11	3.14	9.22	3.23	5.82	1.23	9.18	0.36	0.092	1.15	2.36
MC 80 x 40 x 5	72.41	18.10	22.17	3.08	4.20	11.18	3.95	7.12	1.21	13.55	0.99	0.108	1.17	2.26
MC 80 x 40 x 6	83.26	20.82	25.71	3.04	4.95	12.95	4.64	8.36	1.20	15.55	1.61	0.121	1.21	2.24
MC 100 x 50 x 4	121.29	24.26	29.04	3.93	4.23	18.61	5.14	9.26	1.54	11.55	0.64	0.297	1.38	2.90
MC 100 x 50 x 5	146.27	29.25	35.22	3.89	5.20	22.59	6.31	11.37	1.53	13.55	1.15	0.353	1.42	2.88
MC 100 x 50 x 6	169.64	33.93	41.13	3.85	6.15	26.33	7.44	13.40	1.52	15.55	1.89	0.401	1.46	2.86
MC 120 x 60 x 6	301.45	50.24	60.16	4.67	7.35	46.77	10.90	19.65	1.84	15.55	2.18	1.053	1.71	3.49
MC 130 x 65 x 6	387.39	59.60	71.03	5.08	7.95	60.10	12.88	23.22	2.00	15.55	2.33	1.603	1.83	3.80
MC 150 x 75 x 6	599.04	79.87	93.60	5.88	8.78	93.78	17.35	31.26	2.33	13.18	2.21	3.386	2.10	4.48
MC 150 x 75 x 9*	845.13	112.68	134.60	5.77	12.89	132.91	25.10	45.24	2.29	19.18	7.33	4.572	2.20	4.38
MC 200 x 100 x 6*	1463.18	146.32	169.74	7.92	11.78	228.82	31.44	56.61	3.13	13.18	2.93	15.030	2.72	6.05
MC 200 x 100 x 9*	2096.41	209.64	246.74	7.81	17.39	328.68	45.85	82.60	3.09	19.18	9.76	20.850	2.83	5.95
MC 200 x 100 x 10*	2294.04	229.40	271.31	7.77	19.22	360.04	50.48	90.95	3.08	21.18	13.34	22.570	2.87	5.91

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