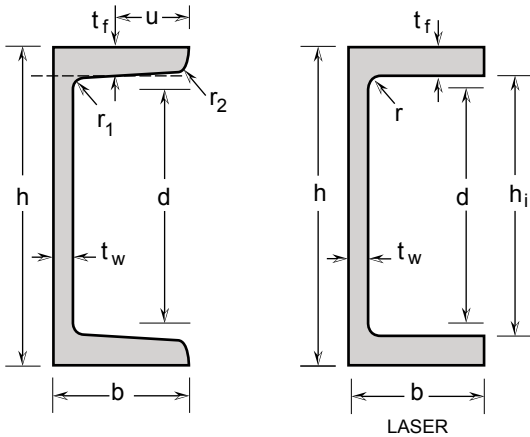


C



Asian Channels standard size

Hot rolled

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

Laser fused

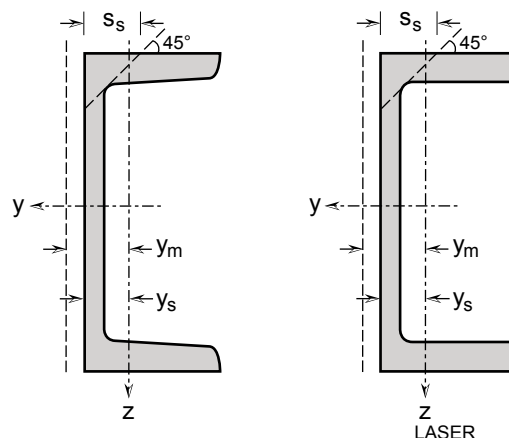
according to ASTM A1069, dimensional tolerances and grades, according to ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

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 ₁ mm	r ₂ mm	A mm ² x10 ²	d mm	u ± = 8%
C 50 x 25 x 5 x 6	3.95	50	25	5	6	6	3	4.94	25.3	12.5
C 75 x 40 x 5 x 7**	6.95	75	40	5	7	8	4	8.68	42.7	20.0
C 100 x 50 x 5 x 7.5**	9.37	100	50	5	7.5	8	4	11.71	65.3	25.0
C 125 x 65 x 6 x 8**	13.40	125	65	6	8	8	4	16.75	87.5	32.5
C 150 x 75 x 6.5 x 10**	18.62	150	75	6.5	10	10	5	23.27	103.7	37.5
C 150 x 75 x 9 x 12.5**	24.01	150	75	9	12.5	2	1	30.02	121.00	125.0
C 180 x 75 x 7 x 10.5**	21.52	180	75	7	10.5	2	1	26.90	155.00	159.0
C 200 x 80 x 7.5 x 11**	24.77	200	80	7.5	11	2	1	30.97	174.00	178.0
C 200 x 90 x 8 x 13.5**	30.53	200	90	8	13.5	2	1	38.16	169.00	173.0
C 230 x 80 x 8 x 12*	28.56	230	80	8	12	2	1	35.70	202.00	206.0
C 250 x 90 x 9 x 13*	34.86	250	90	9	13	2	1	43.58	220.00	224.0
C 250 x 90 x 11 x 14.5*	40.34	250	90	11	14.5	2	1	50.43	217.00	221.0
C 300 x 90 x 9 x 12*	37.17	300	90	9	12	2	1	46.46	272.00	276.0
C 300 x 90 x 10 x 15.5*	43.85	300	90	10	15.5	2	1	54.82	265.00	269.0
C 300 x 90 x 12 x 16*	48.78	300	90	12	16	2	1	60.98	264.00	268.0
C 380 x 100 x 10.5 x 16*	54.85	380	100	10.5	16	2	1	68.56	344.00	348.0
C 380 x 100 x 13 x 16.5*	62.50	380	100	13	16.5	2	1	78.13	343.00	347.0
C 380 x 100 x 13 x 20*	67.37	380	100	13	20	2	1	84.22	336.00	340.0

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



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
C 50 x 25 x 5 x 6	16.75	6.70	8.34	1.84	2.96	2.33	1.35	2.23	0.69	14.79	0.53	0.01	0.77	1.37
C 75 x 40 x 5 x 7**	73.88	19.70	23.46	2.92	4.55	10.93	3.89	8.55	1.12	17.75	1.26	0.11	1.19	2.39
C 100 x 50 x 5 x 7.5**	182.65	36.53	43.04	3.95	5.79	23.02	6.43	14.53	1.40	18.95	1.91	0.44	1.42	3.04
C 125 x 65 x 6 x 8**	403.93	64.63	76.64	4.91	8.11	52.69	11.04	26.41	1.77	21.37	3.26	1.71	1.73	3.89
C 150 x 75 x 6.5 x 10**	829.79	110.64	129.79	5.97	10.92	101.78	18.79	43.53	2.09	25.41	6.77	4.59	2.08	4.62
C 150 x 75 x 9 x 12.5**	1035.82	138.11	164.28	5.87	12.64	165.24	33.13	59.63	2.35	22.68	12.97	5.41	2.51	4.88
C 180 x 75 x 7 x 10.5**	1368.26	152.03	177.99	7.13	12.09	149.69	29.02	52.63	2.36	18.68	7.64	7.47	2.34	4.80
C 200 x 80 x 7.5 x 11**	1927.33	192.73	226.03	7.89	14.41	194.27	34.91	63.34	2.50	19.68	9.66	12.04	2.44	5.02
C 200 x 90 x 8 x 13.5**	2463.17	246.32	286.75	8.03	15.21	313.03	52.27	93.68	2.86	22.68	17.43	19.03	3.01	6.12
C 230 x 80 x 8 x 12*	2868.05	249.40	294.50	8.96	17.70	218.23	38.53	69.55	2.47	21.18	12.75	17.99	2.34	4.80
C 250 x 90 x 9 x 13*	4134.28	330.74	390.57	9.74	21.61	336.97	52.86	95.40	2.78	23.18	18.70	32.84	2.62	5.40
C 250 x 90 x 11 x 14.5*	4614.87	369.19	442.02	9.57	26.21	375.03	58.55	105.41	2.73	26.68	28.52	36.02	2.59	5.15
C 300 x 90 x 9 x 12*	6061.66	404.11	482.91	11.42	26.18	337.00	50.55	90.41	2.69	22.18	17.32	48.96	2.33	4.88
C 300 x 90 x 10 x 15.5*	7276.35	485.09	578.24	11.52	28.78	409.71	63.38	113.97	2.73	26.68	31.03	57.59	2.54	5.14
C 300 x 90 x 12 x 16*	7741.32	516.09	624.89	11.27	34.42	429.37	65.47	117.93	2.65	29.18	40.47	60.28	2.44	4.78
C 380 x 100 x 10.5 x 16*	14299.30	752.59	900.89	14.44	38.56	611.68	82.81	148.28	2.99	27.68	40.47	141.80	2.61	5.41
C 380 x 100 x 13 x 16.5*	15439.91	812.63	991.70	14.06	47.60	641.99	85.46	154.28	2.87	30.68	56.23	149.50	2.49	4.92
C 380 x 100 x 13 x 20*	17236.20	907.17	1096.28	14.31	47.22	736.90	101.17	182.09	2.96	34.18	77.16	166.20	2.72	5.35