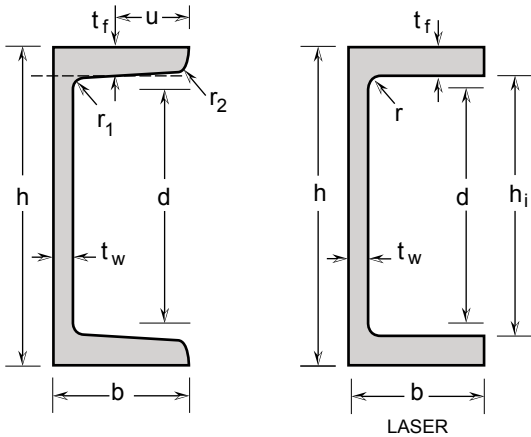


# C



## 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

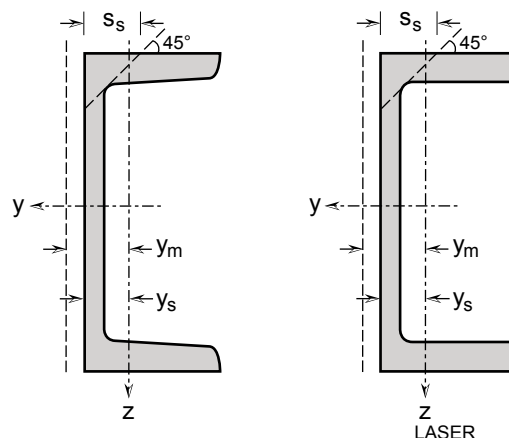
according to ASTM A1069, dimensional tolerances and grades, according to ASTM A276, ASTM A484, ASTM A479, ASME SA479, MTC EN 10204 3.1

### 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 <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> x10 <sup>2</sup>	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				S <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> x10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> x10 <sup>9</sup>	y <sub>s</sub> mm x10	y <sub>m</sub> mm x10
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mm x10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> 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