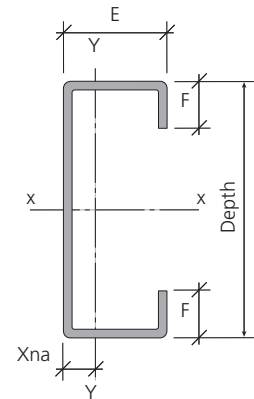


**Table 01: Zed & Cee profile dimensions**

Section Depth	Zeds				Cees	
	A	B	C	D	E	F
140,170	60	54	16	20	62	13
200	70	64	16	20	70	15
240	75	67	18	22	74	17
300	95	87	21	25	95	19

Dimensions in mm



**Table 02: Standard Zeds - 390N/mm<sup>2</sup> steel grade**

Section	Wt (kg/m)	Area (cm <sup>2</sup> )	Zxx (cm <sup>2</sup> )	Zyy (cm <sup>2</sup> )	Ixx (cm <sup>4</sup> )	Iyy (cm <sup>4</sup> )	Rx (mm)	Ry (mm)	Po (Nmm <sup>2</sup> )	Qs	α	xna (mm)	yna (mm)	Mc (kNm)
14014	3.06	3.81	13.97	4.37	116.8	29.3	55.3	27.7	350.7	0.641	22.4	0.1	70.7	5.45
14015	3.26	4.08	15.49	4.79	124.7	31.2	55.3	27.6	356.8	0.667	22.4	0.0	70.7	6.04
14016	3.48	4.35	17.00	5.22	132.7	33.1	55.2	27.6	362.2	0.693	22.3	0.0	70.7	6.63
14018	3.90	4.89	19.87	6.04	148.4	36.8	55.1	27.4	371.1	0.731	22.2	-0.1	70.7	7.75
14020	4.32	5.43	22.44	6.83	164.0	40.4	55.0	27.3	378.2	0.762	22.2	-0.2	70.7	8.75
17014	3.38	4.22	17.44	4.18	184.0	29.4	66.0	26.4	331.4	0.582	17.3	0.0	85.8	6.80
17015	3.62	4.52	19.37	4.60	196.5	31.3	65.9	26.3	338.9	0.605	17.3	-0.1	85.8	7.55
17016	3.86	4.82	21.28	5.02	209.2	33.2	65.9	26.2	345.4	0.627	17.3	-0.1	85.8	8.30
17018	4.33	5.42	24.85	5.83	234.2	36.9	65.7	26.1	356.2	0.662	17.2	-0.2	85.8	9.69
17020	4.79	6.02	28.21	6.61	259.0	40.5	65.6	26.0	364.8	0.689	17.1	-0.3	85.8	11.00
17025	5.94	7.48	36.24	8.42	318.8	49.1	65.3	25.6	380.3	0.750	17.0	-0.6	85.8	14.14
20014	3.92	4.90	21.56	4.97	296.8	44.8	77.8	30.2	312.1	0.511	16.8	-0.1	100.7	8.41
20015	4.20	5.25	24.18	5.53	317.3	47.8	77.7	30.2	320.9	0.538	16.8	-0.1	100.7	9.43
20016	4.48	5.60	26.84	6.08	337.9	50.7	77.7	30.1	328.6	0.563	16.7	-0.2	100.7	10.47
20018	5.03	6.30	32.10	7.18	378.6	56.5	77.5	30.0	341.3	0.608	16.7	-0.3	100.7	12.52
20020	5.58	7.00	37.25	8.25	419.2	62.2	77.4	29.8	351.5	0.641	16.6	-0.4	100.7	14.53
20025	6.92	8.71	48.63	10.72	517.3	75.7	77.1	29.5	369.6	0.700	16.5	-0.6	100.7	18.97
24015	4.81	6.01	30.11	5.90	510.4	58.6	92.1	31.2	296.9	0.485	14.3	0.3	121.3	11.74
24016	5.13	6.41	33.61	6.54	543.7	62.3	92.1	31.2	306.2	0.509	14.3	0.2	121.3	13.11
24018	5.77	7.22	40.62	7.80	609.9	69.5	91.9	31.0	321.4	0.550	14.2	0.1	121.3	15.84
24020	6.39	8.02	47.36	9.04	675.8	76.5	91.8	30.9	333.6	0.583	14.2	0.0	121.3	18.47
24025	7.94	9.99	62.69	11.94	835.7	93.3	91.5	30.6	355.4	0.639	14.1	-0.2	121.3	24.45
24030	9.47	11.94	77.42	14.62	990.7	109.1	91.1	30.2	369.8	0.685	14.0	-0.5	121.3	30.19
30020	8.02	10.09	66.20	12.92	1344.7	157.4	115.4	39.5	306.8	0.503	14.5	0.0	151.3	25.82
30025	10.02	12.60	93.55	17.86	1668.1	193.1	115.1	39.2	334.1	0.581	14.4	-0.2	151.3	36.49
30030	11.97	15.08	118.11	22.48	1983.6	227.1	114.7	38.8	352.1	0.630	14.3	-0.5	151.3	46.06

**Table 03: Standard Cees - 390N/mm<sup>2</sup> steel grade**

Section	Wt (kg/m)	Area (cm <sup>2</sup> )	Zxx (cm <sup>2</sup> )	Zyy (cm <sup>2</sup> )	Ixx (cm <sup>4</sup> )	Iyy (cm <sup>4</sup> )	Rx (mm)	Ry (mm)	Po (Nmm <sup>2</sup> )	Qs	xna (mm)	yna (mm)	Mc (kNm)
14014	3.06	3.81	13.90	3.91	119.3	19.2	55.9	22.4	350.7	0.670	18.9	70.0	5.42
14015	3.26	4.08	15.44	4.26	127.4	20.4	55.8	22.4	356.8	0.699	18.9	70.0	6.02
14016	3.48	4.35	16.99	4.61	135.5	21.7	55.8	22.3	362.2	0.730	18.9	70.0	6.63
14018	3.90	4.89	20.00	5.29	151.5	24.1	55.7	22.2	371.1	0.780	18.9	70.0	7.80
14020	4.32	5.43	22.87	5.95	167.5	26.5	55.5	22.1	378.2	0.820	18.9	70.0	8.92
17014	3.38	4.22	17.34	3.79	187.1	20.4	66.6	22.0	331.4	0.604	17.1	85.0	6.76
17015	3.62	4.52	19.29	4.15	199.9	21.7	66.5	21.9	338.9	0.635	17.1	85.0	7.52
17016	3.86	4.82	21.25	4.51	212.7	23.1	66.4	21.9	345.4	0.660	17.1	85.0	8.29
17018	4.33	5.42	25.04	5.20	238.1	25.7	66.3	21.8	356.2	0.704	17.1	85.0	9.76
17020	4.79	6.02	28.69	5.88	263.4	28.3	66.2	21.7	364.8	0.740	17.2	85.0	11.19
17025	5.94	7.48	37.13	7.47	324.1	34.3	65.8	21.4	380.3	0.817	17.2	85.0	14.48
20014	3.92	4.90	21.57	4.62	299.2	30.3	78.1	24.9	312.1	0.540	19.0	100.0	8.41
20015	4.20	5.25	24.19	5.09	319.8	32.3	78.0	24.8	320.9	0.569	19.0	100.0	9.43
20016	4.48	5.60	26.85	5.57	340.6	34.3	78.0	24.8	328.6	0.600	19.0	100.0	10.47
20018	5.03	6.30	32.12	6.51	381.7	38.3	77.8	24.7	341.3	0.650	19.0	100.0	12.53
20020	5.58	7.00	37.27	7.42	422.6	42.2	77.7	24.6	351.5	0.680	19.0	100.0	14.54
20025	6.92	8.71	49.23	9.57	521.5	51.5	77.4	24.3	369.6	0.760	19.1	100.0	19.20
24015	4.81	6.01	30.15	5.53	514.0	40.8	92.5	26.1	296.9	0.510	19.0	120.0	11.76
24016	5.13	6.41	33.64	6.09	547.6	43.4	92.4	26.0	306.2	0.540	19.1	120.0	13.12
24018	5.77	7.22	40.60	7.19	614.1	48.5	92.3	25.9	321.4	0.590	19.1	120.0	15.83
24020	6.39	8.02	47.46	8.27	680.5	53.4	92.1	25.8	333.6	0.620	19.1	120.0	18.51
24025	7.94	9.99	63.62	10.83	841.5	65.3	91.8	25.6	355.4	0.690	19.1	120.0	24.81
24030	9.47	11.94	78.78	13.23	997.6	76.5	91.4	25.3	369.8	0.750	19.2	120.0	30.72
30020	8.02	10.09	66.02	11.90	1353.6	109.8	115.8	33.0	306.8	0.530	24.1	150.0	25.75
30025	10.02	12.60	93.33	16.16	1679.1	134.9	115.4	32.7	334.1	0.620	24.1	150.0	36.40
30030	11.97	15.08	119.18	20.19	1996.6	158.9	115.1	32.5	352.1	0.680	24.1	150.0	46.48



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