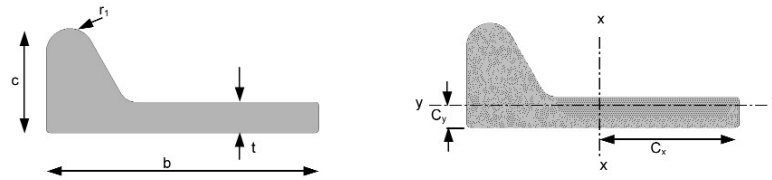
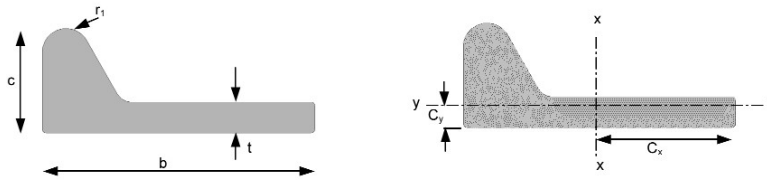


Bulb Plate



Designation Size	Mass Per Metre	Width b	Thickness t	Bulb Height c	Radius r ₁	Area of Section cm ²	Surface Area m ² /m	Distance Centre of Gravity		Second Moment of Area		Radius of Gyration Axis y-y cm	Elastic Modulus Axis x-x cm ³
								C _x	C _y	Axis x-x cm ⁴	Axis y-y cm ⁴		
mm	kg/m	mm	mm	mm	mm	cm ²	m ² /m	cm	mm	cm ⁴	cm ⁴	cm	cm ³
120x	6	7.31	120	6	17	5	9.31	0.276	7.2	5.3	133	2.34	18.4
	7	8.25	120	7	17	5	10.5	0.278	7.07	5.6	148	2.7	21
	8	9.19	120	8	17	5	11.7	0.28	6.96	6	164	3.1	23.6
140x	6.5	9.21	140	6.5	19	5.5	11.7	0.319	8.37	5.8	228	3.57	27.3
	7	9.74	140	7	19	5.5	12.4	0.32	8.31	5.9	241	3.8	29
	8	10.83	140	8	19	5.5	13.8	0.322	8.18	6.3	266	4.32	32.5
	10	13.03	140	10	19	5.5	16.6	0.326	7.92	7	316	5.56	39.8
160x	7	11.4	160	7	22	6	14.6	0.365	9.66	6.4	373	5.86	38.6
	8	12.7	160	8	22	6	16.2	0.367	9.49	6.8	411	6.55	43.3
	9	14	160	9	22	6	17.8	0.369	9.36	7.1	448	7.32	47.9
	11.5	17.3	160	11.5	22	6	21.8	0.374	9.11	8.1	544	9.62	59.8
180x	8	14.8	180	8	25	7	18.9	0.411	10.9	7.4	609	9.9	55.9
	9	16.2	180	9	25	7	20.7	0.413	10.7	7.7	633	10.93	61.8
	10	17.6	180	10	25	7	22.5	0.415	10.6	8.1	717	12.05	67.8
	11.5	19.7	180	11.5	25	7	25.2	0.418	10.4	8.6	799	13.93	76.8
200x	8.5	17.8	200	8.5	28	8	22.6	0.456	12.2	8.2	902	15.07	74
	9	18.5	200	9	28	8	23.6	0.457	12.1	8.4	941	15.76	77.7
	10	20.1	200	10	28	8	25.6	0.459	11.9	8.7	1020	17.21	85
	11	21.7	200	11	28	8	27.6	0.461	11.8	9	1090	18.77	92.3
	12	23.2	200	12	28	8	29.6	0.463	11.7	9.4	1160	20.46	99.6
220x	9	21	220	9	31	9	26.8	0.501	13.6	9.1	1296	22.03	95.3
	10	22.8	220	10	31	9	29	0.503	13.4	9.3	1400	23.89	105
	11	24.5	220	11	31	9	31.2	0.505	13.2	9.6	1500	25.86	113
	12	26.2	220	12	31	9	33.4	0.507	13	10	1590	27.98	122
240x	9.5	24.4	240	9.5	34	10	31.2	0.546	14.8	9.9	1800	31.15	123
	10	25.4	240	10	34	10	32.4	0.547	14.7	10	1860	32.34	126
	11	27.4	240	11	34	10	34.9	0.549	14.6	10.3	2000	34.81	137
	12	29.3	240	12	34	10	37.3	0.551	14.4	10.6	2130	37.43	148
260x	10	28.3	260	10	37	11	36.1	0.593	16.2	10.7	2477	42.84	153
	11	30.3	260	11	37	11	38.7	0.593	16	11	2610	45.9	162
	12	32.4	260	12	37	11	41.3	0.595	15.8	11.3	2770	49.11	175
280x	10.5	32.4	280	10.5	40	12	41.2	0.636	17.5	11.6	3223	57.55	184
	11	33.5	280	11	40	12	42.6	0.637	17.4	11.7	3330	59.44	191
	12	35.7	280	12	40	12	45.5	0.639	17.2	11.9	3550	63.34	206
	13	37.9	280	13	40	12	48.4	0.641	17	12.2	3760	67.42	221
300x	11	36.7	300	11	43	13	46.7	0.681	18.9	12.4	4190	75.74	222
	12	39	300	12	43	13	49.7	0.683	18.7	12.6	4460	80.44	239
	13	41.5	300	13	43	13	52.8	0.685	18.5	12.9	4720	85.33	256
320x	11.5	41.2	320	11.5	46	14	52.6	0.727	20.2	13.3	5370	97.92	266
	12	42.5	320	12	46	14	54.2	0.728	20.1	13.4	5530	100.76	274
	13	45	320	13	46	14	57.4	0.73	19.9	13.6	5850	106.57	294
	14	47.5	320	14	46	14	60.6	0.732	19.7	13.9	6170	112.6	313

Bulb Plate



Designation Size	Mass Per Metre	Width	Thickness	Bulb Height	Radius	Area of Section	Surface Area	Distance Centre of Gravity		Second Moment of Area		Radius of Gyraton	Elastic Modulus	
								C _x	C _y	Axis x-x	Axis y-y			Axis y-y
mm	kg/m	mm	mm	mm	mm	cm ²	m ² /m	cm	mm	cm ⁴	cm ⁴	cm	cm ³	
340x	12	46.1	340	12	49	15	58.8	0.772	21.5	14.1	6760	124.64	1.46	313
	13	48.8	340	13	49	15	62.2	0.774	21.3	14.3	7160	131.51	1.45	335
	14	51.5	340	14	49	15	65.5	0.776	21.1	14.6	7540	138.6	1.45	357
	15	54.2	340	15	49	15	69	0.778	20.9	14.8	7920	145.93	1.45	379
370x	12.5	53.1	370	12.5	53.5	16.5	67.8	0.839	23.6	15.4	9213	172.31	1.59	390
	13	54.6	370	13	53.5	16.5	69.6	0.84	23.5	15.4	9470	176.71	1.59	402
	14	57.5	370	14	53.5	16.5	73.3	0.842	23.2	15.6	9980	185.65	1.59	428
	15	60.5	370	15	53.5	16.5	77	0.844	23	15.9	10490	194.83	1.59	455
	16	63.5	370	16	53.5	16.5	80.7	0.846	22.8	16.1	10980	204.3	1.59	481
400x	13	60.8	400	13	58	18	77.4	0.907	25.8	16.6	12280	232.44	1.73	476
	14	63.9	400	14	58	18	81.4	0.908	25.5	16.8	12930	243.59	1.73	507
	15	67	400	15	58	18	85.4	0.91	25.2	17	13580	254.97	1.73	537
	16	70.2	400	16	58	18	89.4	0.912	25	17.2	14220	266.64	1.73	568
430x	14	70.6	430	14	62.5	19.5	89.7	0.975	27.7	17.9	16460	313.89	1.87	594
	15	73.9	430	15	62.5	19.5	94.1	0.976	27.4	18.1	17260	327.86	1.87	628
	17	80.6	430	17	62.5	19.5	103	0.98	26.9	18.5	18860	356.65	1.86	700
	20	90.8	430	20	62.5	19.5	115	0.986	26.3	19.3	21180	402.63	1.87	804