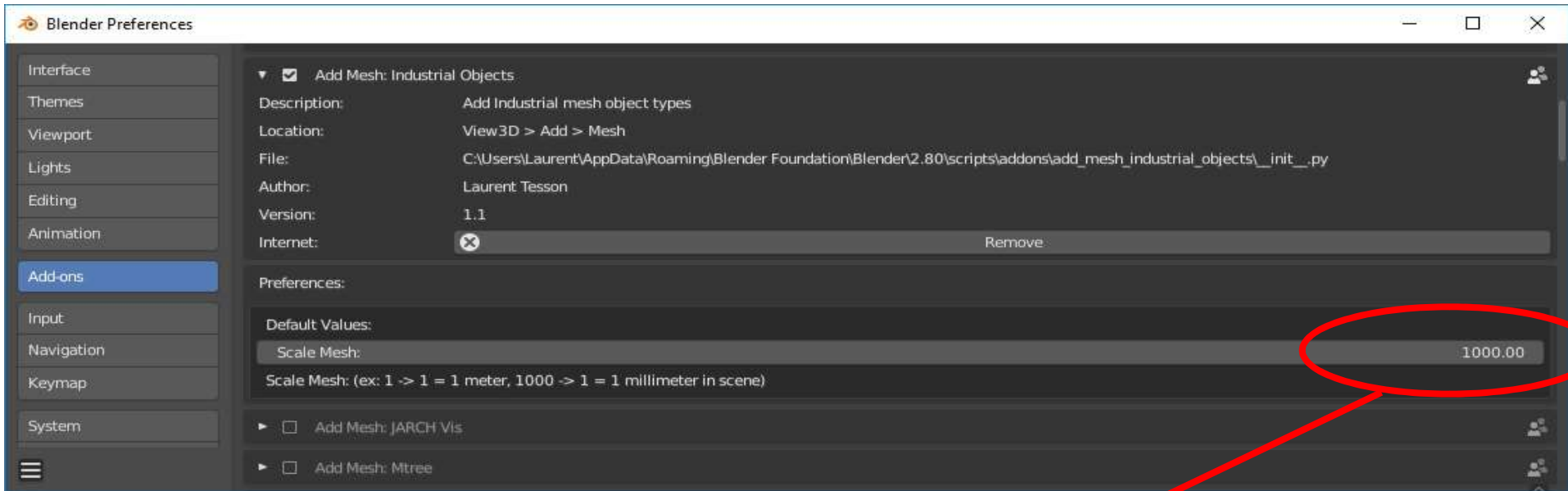


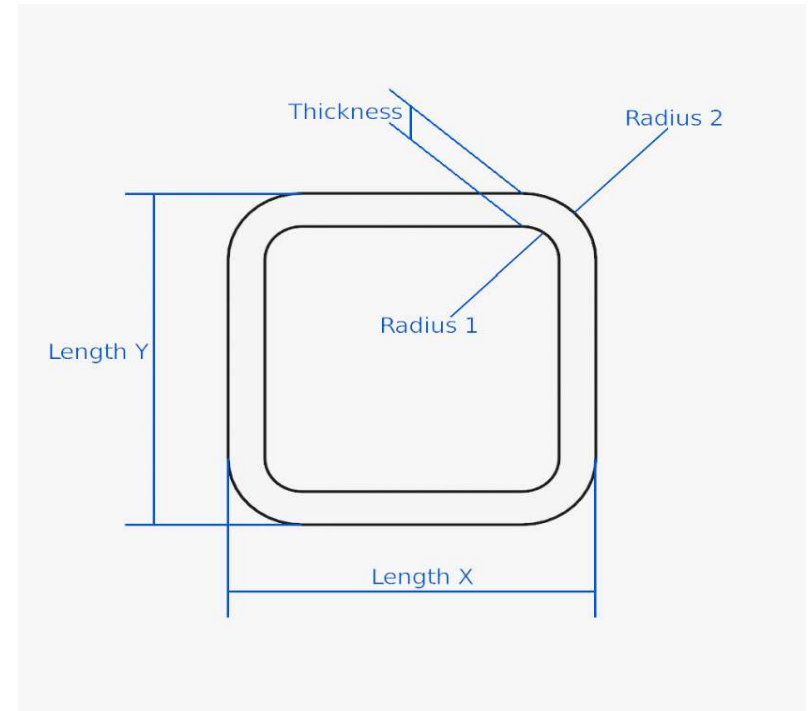
Blender Addon: Industrial Objects > Beam Builder



Scale Mesh = 1000

Add 'Box Beam'

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TC20x1.5	20	20	1.5	1.5	3	0.87
TC20x2	20	20	2	2	4	1.13
TC22x2.3	22	22	2.3	2.3	4.6	1.28
TC25x1.5	25	25	1.5	1.5	3	1.11
TC25x2	25	25	2	2	4	1.44
TC28x2.5	28	28	2.5	2.5	5	1.83
TC28x4	28	28	4	4	8	3.01
TC30x1.5	30	30	1.5	1.5	3	1.34
TC30x2	30	30	2	2	4	1.76
TC30x2.5	30	30	2.5	2.5	5	2.12
TC30x3	30	30	3	3	6	2.42
TC30x4	30	30	4	4	8	3.05
TC35x1.5	35	35	1.5	1.5	3	1.58
TC35x2	35	35	2	2	4	2.07
TC35x2.5	35	35	2.5	2.5	5	2.38
TC35x3	35	35	3	3	6	3.01
TC35x4	35	35	4	4	8	3.68
TC40x1.5	40	40	1.5	1.5	3	1.81
TC40x2	40	40	2	2	4	2.39
TC40x2.5	40	40	2.5	2.5	5	2.95
TC40x2.7	40	40	2.7	2.7	5.4	3.06
TC40x3	40	40	3	3	6	3.46
TC40x3.2	40	40	3.2	3.2	6.4	3.56
TC40x4	40	40	4	4	8	4.45
TC45x1.5	45	45	1.5	1.5	3	2.05
TC45x2	45	45	2	2	4	2.7



Radius 1 = Thickness
Radius 2 = Radius 1 * 2

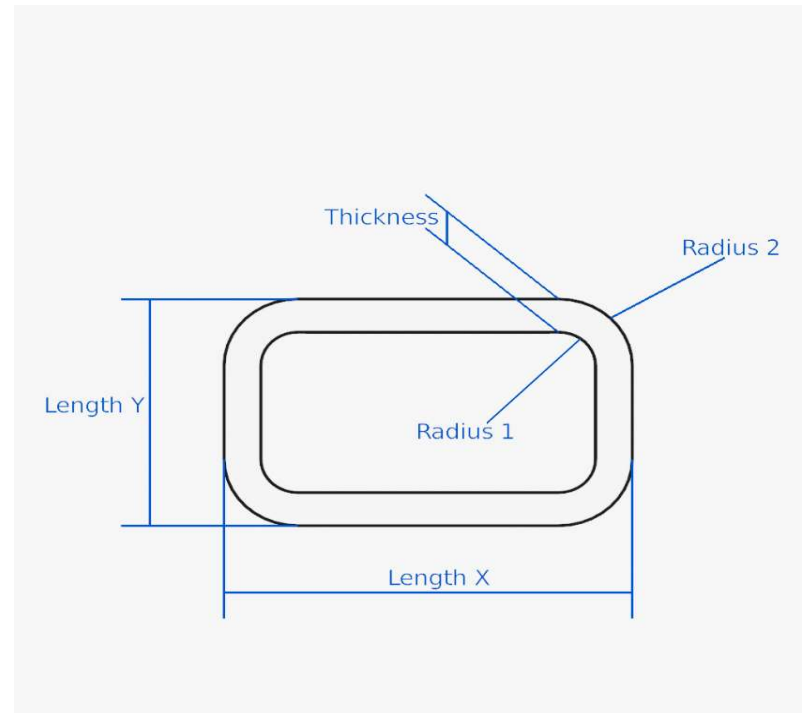
Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TC45x3	45	45	3	3	6	3.96
TC45x3.2	45	45	3.2	3.2	6.4	4.06
TC45x4	45	45	4	4	8	5.07
TC50x2	50	50	2	2	4	3.02
TC50x3	50	50	3	3	6	4.4
TC50x3.2	50	50	3.2	3.2	6.4	4.6
TC50x4	50	50	4	4	8	5.7
TC50x5	50	50	5	5	10	6.73
TC55x2.5	55	55	2.5	2.5	5	4.12
TC55x3	55	55	3	3	6	4.87
TC55x5	55	55	5	5	10	7.85
TC60x2	60	60	2	2	4	3.59
TC60x2.5	60	60	2.5	2.5	5	4.52
TC60x3	60	60	3	3	6	5.34
TC60x3.2	60	60	3.2	3.2	6.4	5.63
TC60x4	60	60	4	4	8	6.96
TC60x5	60	60	5	5	10	8.3
TC60x6	60	60	6	6	12	9.69
TC70x2	70	70	2	2	4	4.27
TC70x3	70	70	3	3	6	6.26
TC70x4	70	70	4	4	8	8.21
TC70x5	70	70	5	5	10	9.87
TC70x6	70	70	6	6	12	11.46
TC80x2	80	80	2	2	4	4.9
TC80x3	80	80	3	3	6	7.22
TC80x3.5	80	80	3.5	3.5	7	8.46
TC80x4	80	80	4	4	8	9.47
TC80c5	80	80	5	5	10	11.44
TC80x6	80	80	6	6	12	13.21
TC80x7	80	80	7	7	14	16
TC80x8	80	80	8	8	16	17.8

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TC90x3.5	90	90	3.5	3.5	7	9.44
TC90x4	90	90	4	4	8	10.73
TC90x5	90	90	5	5	10	12.84
TC90x6	90	90	6	6	12	15.1
TC100x2	100	100	2	2	4	6.1
TC100x3	100	100	3	3	6	9.02
TC100x4	100	100	4	4	8	11.84
TC100x5	100	100	5	5	10	14.42
TC100x6	100	100	6	6	12	16.98
TC100x7	100	100	7	7	14	19.45
TC100x8	100	100	8	8	16	21.57
TC100x10	100	100	10	10	20	27.9
TC110x4	110	110	4	4	8	13.1
TC120x3	120	120	3	3	6	10.91
TC120x4	120	120	4	4	8	14.35
TC120x5	120	120	5	5	10	17.55
TC120x6	120	120	6	6	12	20.75
TC120x7	120	120	7	7	14	23.83
TC120x8	120	120	8	8	16	28.13
TC120x10	120	120	10	10	20	34.2
TC125x4	125	125	4	4	8	14.98
TC125x5	125	125	5	5	10	18.34
TC125x6	125	125	6	6	12	21.69
TC140x4	140	140	4	4	8	16.87
TC140x5	140	140	5	5	10	20.69
TC140x6	140	140	6	6	12	24.52
TC140x8	140	140	8	8	16	31.71
TC140x10	140	140	10	10	20	38.4
TC150x3	150	150	3	3	6	13.68
TC150x4	150	150	4	4	8	18.12
TC150x5	150	150	5	5	10	22.26

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TC150x8	150	150	8	8	16	33.83
TC150x10	150	150	10	10	20	41.5
TC150x12	150	150	12	12	24	48.5
TC160x5	160	160	5	5	10	23.83
TC160x6	160	160	6	6	12	28.29
TC160x8	160	160	8	8	16	36.89
TC160x10	160	160	10	10	20	44.7
TC180x5	180	180	5	5	10	26.9
TC180x6	180	180	6	6	12	32.05
TC180x8	180	180	8	8	16	41.91
TC180x10	180	180	10	10	20	50.9
TC180x12	180	180	12	12	24	59.8
TC200x5	200	200	5	5	10	29.94
TC200x6	200	200	6	6	12	35.82
TC200x8	200	200	8	8	16	46.94
TC200x10	200	200	10	10	20	57.2
TC200x12	200	200	12	12	24	67.3
TC200x16	200	200	16	16	32	91.5
TC220x4	220	220	4	4	8	26.9
TC220x5	220	220	5	5	10	33.25
TC220x6	220	220	6	6	12	39.59
TC250x6	250	250	6	6	12	45.24
TC250x8	250	250	8	8	16	59.5
TC250x10	250	250	10	10	20	72.9
TC250x12	250	250	12	12	24	86.2
TC250x16	250	250	16	16	32	117
TC260x6	260	260	6	6	12	47
TC260x8	260	260	8	8	16	61.7
TC260x10	260	260	10	10	20	76.1
TC260x12	260	260	12	12	24	90
TC300x6	300	300	6	6	12	54.5

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TC300x10	300	300	10	10	20	88.6
TC300x12	300	300	12	12	24	105
TC300x16	300	300	16	16	32	142
TC350x6	350	350	6	6	12	84.4
TC350x10	350	350	10	10	20	104.3
TC350x12	350	350	12	12	24	123.9
TC350x16	350	350	16	16	32	167
TC400x10	400	400	10	10	20	122
TC400x12.5	400	400	12.5	12.5	25	152
TC400x16	400	400	16	16	32	192

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR30x20x1.5	30	20	1.5	1.5	3	0.49
TR30x20x2	30	20	2	2	4	0.85
TR35x20x1.5	35	20	1.5	2	4	0.95
TR40x20x1.5	40	20	1.5	1.5	3	1.34
TR40x20x2	40	20	2	2	4	2.21
TR40x20x3	40	20	3	3	6	3.09
TR40x27x1.5	40	27	1.5	1.5	3	1.52
TR40x27x2	40	27	2	2	4	1.98
TR40x27x2.5	40	27	2.5	2.5	5	2.43
TR50x25x2.5	50	25	2.5	2.5	5	2.75
TR50x25x3	50	25	3	3	6	3.22
TR50x30x1.5	50	30	1.5	1.5	3	1.81
TR50x30x2	50	30	2	2	4	2.39
TR50x30x3	50	30	3	3	6	3.46
TR50x40x2	50	40	2	2	4	2.67
TR50x40x3	50	40	3	3	6	3.93
TR60x30x2	60	30	3	3	6	2.7
TR60x30x2.5	60	30	2.5	2.5	5	3.29
TR60x30x2.7	60	30	2.7	2.7	5.4	3.49
TR60x30x3	60	30	3	3	6	3.93
TR60x30x4	60	30	4	4	8	5.16
TR60x34x2	60	34	2	2	4	2.83
TR60x34x2.5	60	34	2.5	2.5	5	3.49
TR60x34x3	60	34	3	3	6	4.13
TR60x40x2	60	40	2	2	4	3.02
TR60x40x3	60	40	3	3	6	4.4
TR60x40x4	60	40	4	4	8	5.7
TR60x40x5	60	40	5	5	10	6.73
TR70x30x2	70	30	2	2	4	2.96
TR70x30x3	70	30	3	3	6	4.31
TR70x35x3	70	35	3	3	6	4.54



Radius 1 = Thickness

Radius 2 = Radius 1 * 2

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR70x40x3	70	40	3	3	6	4.87
TR70x40x4	70	40	4	4	8	6.33
TR70x40x5	70	40	5	5	10	7.51
TR70x50x5	70	50	5	5	10	8.3
TR80x40x1.5	80	40	1.5	1.5	3	2.74
TR40x40x2	80	40	2	2	4	3.64
TR80x40x3	80	40	3	3	6	5.34
TR80x40x4	80	40	4	4	8	6.96
TR80x40x5	80	40	5	5	10	9.3
TR80x50x2	80	50	2	2	4	3.9
TR80x50x3	80	50	3	3	6	5.81
TR80x50x4	80	50	4	4	8	7.59
TR80x50x5	80	50	5	5	10	9.09
TR80x60x3	80	60	3	3	6	6.23
TR80x60x4	80	60	4	4	8	8.21
TR80x60x5	80	60	5	5	10	9.87
TR90x40x4	90	40	4	4	8	7.59
TR90x50x3	90	50	3	3	6	6.28
TR90x50x4	90	50	4	4	8	8.21
TR90x50x5	90	50	5	5	10	9.97
TR100x40x2	100	40	2	2	4	4.27
TR100x40x3	100	40	3	3	6	6.28
TR100x40x4	100	40	4	4	8	8.21
TR100x40x5	100	40	5	5	10	9.87
TR100x50x3	100	50	3	3	6	6.75
TR100x50x4	100	50	4	4	8	8.84
TR100x50x5	100	50	5	5	10	10.65
TR100x50x6	100	50	6	6	12	12.51
TR100x60x3	100	60	3	3	6	7.22
TR100x60x4	100	60	4	4	8	9.47
TR100x60x5	100	60	5	5	10	11.44

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR100x80x3	100	80	3	3	6	8.17
TR100x80x4	100	80	4	4	8	10.73
TR100x80x5	100	80	5	5	10	12.84
TR100x80x6	100	80	6	6	12	15.1
TR120x40x3	120	40	3	3	6	7.22
TR120x40x4	120	40	4	4	8	9.47
TR120x50x3	120	50	3	3	6	7.7
TR120x50x4	120	50	4	4	8	10.19
TR120x50x5	120	50	5	5	10	12.22
TR120x60x3	120	60	3	3	6	8.17
TR120x60x4	120	60	4	4	8	10.73
TR120x60x5	120	60	5	5	10	12.84
TR120x60x6	120	60	6	6	12	15.1
TR120x60x7	120	60	7	7	14	17.58
TR120x80x3	120	80	3	3	6	9.11
TR120x80x4	120	80	4	4	8	11.98
TR120x80x5	120	80	5	5	10	14.42
TR120x80x6	120	80	6	6	12	16.98
TR120x100x3	120	100	3	3	6	10.05
TR120x100x5	120	100	5	5	10	15.99
TR140x40x3	140	40	3	3	6	8.08
TR140x40x4	140	40	4	4	8	10.59
TR140x40x5	140	40	5	5	10	13.01
TR140x60x4	140	60	4	4	8	11.84
TR140x70x4	140	70	4	4	8	12.47
TR140x70x5	140	70	5	5	10	15.2
TR140x70x6	140	70	6	6	12	17.85
TR140x80x3	140	80	3	3	6	10.05
TR140x80x4	140	80	4	4	8	13.1
TR140x80x5	140	80	5	5	10	15.99
TR140x80x6	140	80	6	6	12	18.87

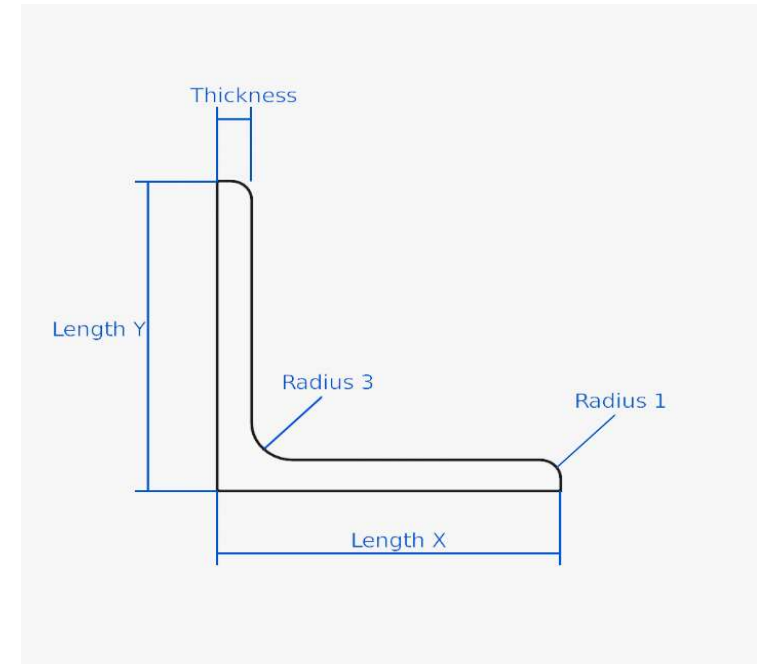
Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR150x50x3	150	50	3	3	6	9.01
TR150x50x4	150	50	4	4	8	11.98
TR150x50x5	150	50	5	5	10	14.58
TR150x75x5	150	75	5	5	10	16.78
TR150x100x3	150	100	3	3	6	11.5
TR150x100x4	150	100	4	4	8	14.98
TR150x100x5	150	100	5	5	10	18.34
TR150x100x6	150	100	6	6	12	21.69
TR150x100x7	150	100	7	7	14	25.9
TR150x100x8	150	100	8	8	16	27.98
TR160x80x4	160	80	4	4	8	14.35
TR160x80x5	160	80	5	5	10	17.55
TR160x80x6	160	80	6	6	12	20.75
TR160x90x3	160	90	3	3	6	11.5
TR160x90x5	160	90	5	5	10	18.34
TR160x90x7	160	90	7	7	14	24.78
TR180x80x3	180	80	3	3	6	11.89
TR180x80x4	180	80	4	4	8	15.61
TR180x80x4.5	180	80	4.5	4.5	9	17.33
TR180x80x5	180	80	5	5	10	19.12
TR180x80x7	180	80	7	7	14	26.38
TR180x100x5	180	100	5	5	10	20.69
TR180x100x6	180	100	6	6	12	24.52
TR180x100x8	180	100	8	8	16	31.77
TR200x100x4	200	100	4	4	8	18.12
TR200x100x5	200	100	5	5	10	22.26
TR200x100x6	200	100	6	6	12	26.4
TR200x100x8	200	100	8	8	16	34.38
TR200x100x10	200	100	10	10	20	41.5
TR200x100x12	200	100	12	12	24	48.5
TR200x120x4	200	120	4	4	8	19.38

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR200x120x6	200	120	6	6	12	28.29
TR200x120x8	200	120	8	8	16	36.89
TR200x120x10	200	120	10	10	20	44.7
TR200x150x5	200	150	5	5	10	26.1
TR200x150x6	200	150	6	6	12	31
TR200x150x8	200	150	8	8	16	40.4
TR200x150x10	200	150	10	10	20	49.4
TR200x150x12	200	150	12	12	24	57.9
TR220x120x6	220	120	6	6	12	29.98
TR220x120x8	220	120	8	8	16	39
TR220x120x10	220	120	10	10	20	47.8
TR250x100x5	250	100	5	5	10	26.1
TR250x100x6	250	100	6	6	12	31
TR250x100x8	250	100	8	8	16	40.4
TR250x100x10	250	100	10	10	20	49.4
TR250x100x12	250	100	12	12	24	57.9
TR250x150x5	250	150	5	5	10	30
TR250x150x6	250	150	6	6	12	35.82
TR250x150x8	250	150	8	8	16	46.94
TR250x150x10	250	150	10	10	20	57.2
TR250x150x12	250	150	12	12	24	67.3
TR260x140x6	260	140	6	6	12	35.57
TR260x140x8	260	140	8	8	16	46.94
TR260x140x10	260	140	10	10	20	57.2
TR260x140x12	260	140	12	12	24	67.3
TR260x180x6	260	180	6	6	12	39.59
TR260x180x8	260	180	8	8	16	51
TR260x180x10	260	180	10	10	20	63.5
TR300x100x5	300	100	5	5	10	30
TR300x100x6	300	100	6	6	12	35.82
TR300x100x8	300	100	8	8	16	46.94

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
TR300x100x12	300	100	12	12	24	67.3
TR300x150x5	300	150	5	5	10	33.93
TR300x150x6	300	150	6	6	12	40.52
TR300x150x8	300	150	8	8	16	53.4
TR300x200x5	300	200	5	5	10	37.79
TR300x200x6	300	200	6	6	12	45.24
TR300x200x8	300	200	8	8	16	59.5
TR300x200x10	300	200	10	10	20	72.9
TR300x200x12	300	200	12	12	24	86.2
TR300x200x16	300	200	16	16	32	117
TR400x200x6	400	200	6	6	12	54.5
TR400x200x8	400	200	8	8	16	71.8
TR400x200x10	400	200	10	10	20	88.6
TR400x200x12	400	200	12	12	24	105
TR400x200x16	400	200	16	16	32	142
TR400x300x8	400	300	8	8	16	80.4
TR400x300x10	400	300	10	10	20	104.3
TR400x300x12	400	300	12	12	24	123.9
TR450x250x10	450	250	10	10	20	104
TR450x250x12	450	250	12	12	24	124
TR450x250x16	450	250	16	16	32	167

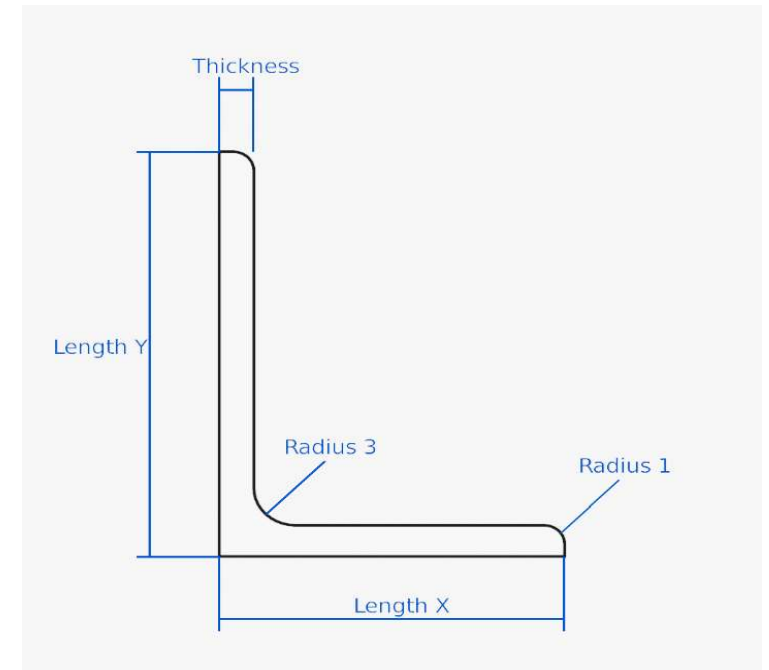
Add 'L Beam'

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
20x20x3	20	20	3	2	0	4	0.88
25x25x3	25	25	3	2	0	4	1.12
25x25x4	25	25	4	2	0	4	1.49
30x30x3	30	30	3	2.5	0	5	1.36
30x30x4	30	30	4	2.5	0	5	1.78
35x35x3.5	35	35	3.5	1.75	0	3.5	1.85
35x35x4	35	35	4	2.5	0	5	2.09
35x35x5	35	35	5	2.5	0	5	2.57
40x40x4	40	40	4	3	0	6	2.42
40x40x5	40	40	5	3	0	6	2.97
40x40x6	40	40	6	3	0	6	3.52
45x45x4.5	45	45	4.5	3.5	0	7	3.04
45x45x5	45	45	5	3.5	0	7	3.38
50x50x5	50	50	5	3.5	0	7	3.77
50x50x6	50	50	6	3.5	0	7	4.47
50x50x7	50	50	7	3.5	0	7	5.15
60x60x6	60	60	6	4	0	8	5.42
60x60x8	60	60	8	4	0	8	7.09
70x70x7	70	70	7	4.5	0	9	7.38
80x80x8	80	80	8	5	0	10	9.63
80x80x10	80	80	10	5	0	10	11.9
90x90x9	90	90	9	5.5	0	11	12.2
100x100x10	100	100	10	6	0	12	15
100x100x12	100	100	12	6	0	12	17.8
120x120x12	120	120	12	6.5	0	13	21.6
120x120x15	120	120	15	6.5	0	13	33.8
150x150x15	150	150	15	8	0	16	40.1
180x180x18	180	180	18	9	0	18	48.6
200x200x20	200	200	20	9	0	18	59.9



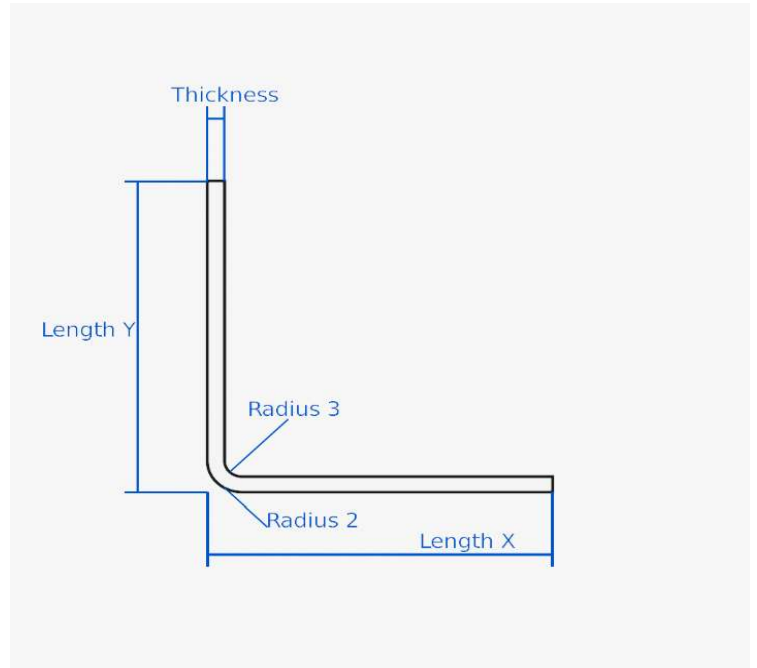
$$\text{Radius 3} = \text{Radius 1} * 2$$

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
30x20x3	20	30	3	2	0	4	1.12
35x20x3.5	20	35	3.5	2	0	4	1.43
40x20x3	20	40	3	2	0	4	1.36
40x25x4	25	40	4	2	0	4	1.93
45x30x4	30	45	4	2	0	4	2.24
45x30x5	30	45	5	2	0	4	2.76
50x30x5	30	50	5	2.5	0	5	2.96
60x40x5	40	60	5	3	0	6	3.76
60x40x6	40	60	6	3	0	6	4.46
60x40x7	40	60	7	3	0	6	5.14
70x50x6	50	70	6	3	0	6	5.4
80x60x7	60	80	7	4	0	8	7.36
90x70x8	70	90	8	4	0	8	9.6
100x50x8	50	100	8	4.5	0	9	8.99
100x75x9	75	100	9	5	0	10	11.79
120x80x10	80	120	10	5.5	0	11	15
150x90x11	90	150	11	6	0	12	19.9
200x100x14	100	200	14	7.5	0	15	31.6



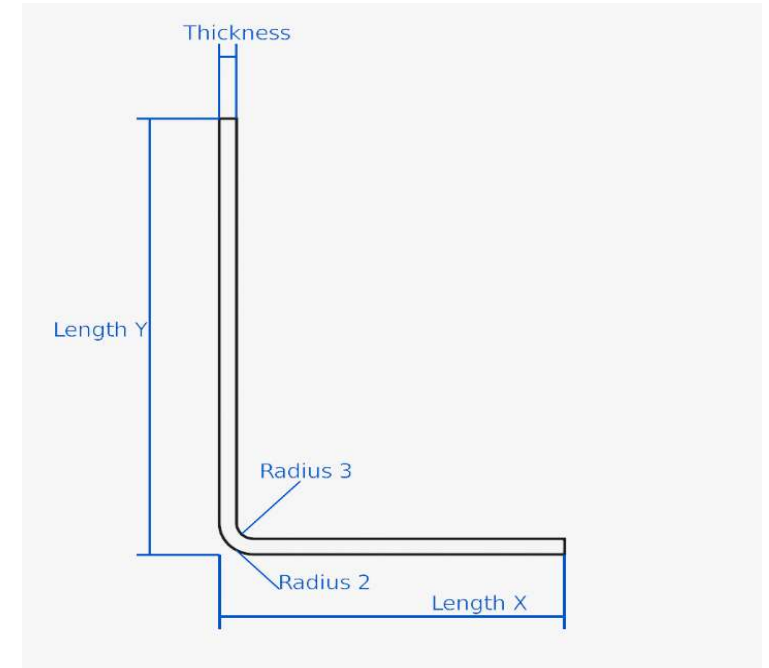
$$\text{Radius 3} = \text{Radius 1} * 2$$

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
CPE10_15	10	10	1.5	0	3	1.5	0.206
CPE15_15	15	15	1.5	0	3	1.5	0.324
CPE15_20	15	15	2	0	4	2	0.419
CPE20_15	20	20	1.5	0	3	1.5	0.441
CPE20_20	20	20	2	0	4	2	0.576
CPE25_20	25	25	2	0	4	2	0.733
CPE30_20	30	30	2	0	4	2	0.89
CPE30_25	30	30	2.5	0	5	2.5	1.096
CPE30_30	30	30	3	0	6	3	1.296
CPE35_25	35	35	2.5	0	5	2.5	1.296
CPE35_30	35	35	3	0	3	3	1.532
CPE40_20	40	40	2	0	4	2	1.204
CPE40_25	40	40	2.5	0	5	2.5	1.489
CPE40_30	40	40	3	0	6	3	1.767
CPE40_40	40	40	4	0	8	4	2.305
CPE45_30	45	45	3	0	6	3	2
CPE50_30	50	50	3	0	6	3	2.238
CPE60_30	60	60	3	0	6	3	2.709
CPE60_40	60	60	4	0	8	4	3.561
CPE35_30	65	65	3	0	6	3	2.945
CPE70_40	70	70	4	0	8	4	4.189
CPE80_50	80	80	5	0	10	5	5.957
CPE90_50_	90	90	5	0	10	5	6.743
CPE100_50	100	100	5	0	10	5	7.527



Radius 3 = Thickness
Radius 2 = Radius 3 * 2

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
CPI15_20_20	15	20	2	0	4	2	0.497
CPI15_30_15	15	30	1.5	0	3	1.5	0.5
CPI15_40_20	15	40	2	0	4	2	0.811
CPI20_25_20	20	25	2	0	4	2	0.654
CPI20_30_20	20	30	2	0	4	2	0.733
CPI20_40_20	20	40	2	0	4	2	0.879
CPI25_40_20	25	40	2	0	4	2	0.968
CPI25_50_20	25	50	2	0	4	2	1.125
CPI30_40_20	30	40	2	0	4	2	1.047
CPI30_40_30	30	40	3	0	6	3	1.532
CPI30_50_30	30	50	3	0	6	3	1.767
CPI30_60_20	30	60	2	0	4	2	1.361
CPI30_60_30	30	60	3	0	6	3	2.003
CPI30_80_30	30	80	3	0	6	3	2.474
CPI30_100_30	30	100	3	0	6	3	2.945
CPI50_100_30	50	100	3	0	6	3	3.416
CPI50_100_40	50	100	4	0	8	4	4.459

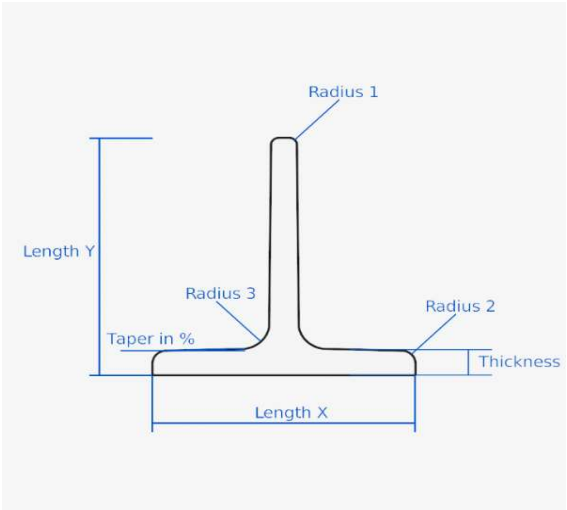


Radius 3 = Thickness

Radius 2 = Radius 3 * 2

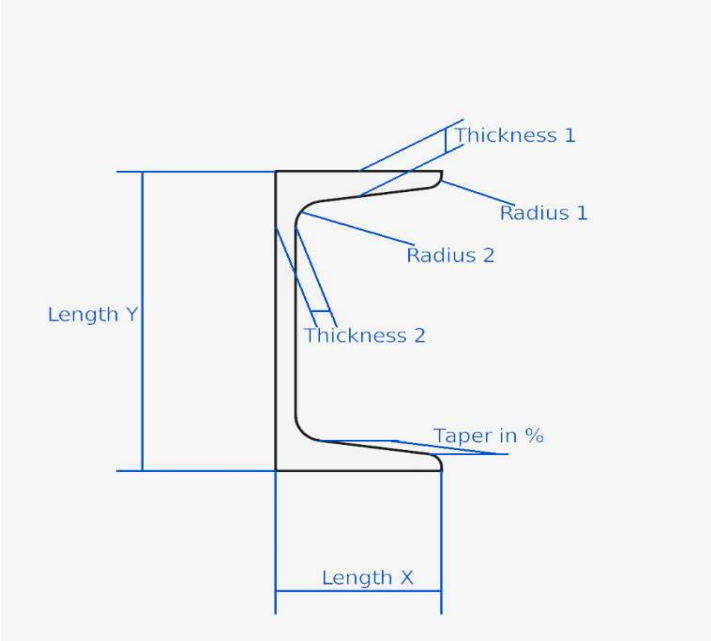
Add 'T Beam'

Name	Length X	Length Y	Thickness	Taper	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
20x20x3	20	20	3	2	1	1.5	3	0.88
25x25x3.5	25	25	3.5	2	1	2	3.5	1.29
30x30x4	30	30	4	2	1	2	4	1.77
30x35x4	30	35	4	2	1	2	4	1.94
35x35x4.5	35	35	4.5	2	1	2.5	4.5	2.33
35x40x4.5	35	40	4.5	2	1	2	4	2.49
40x40x5	40	40	5	2	1	2.5	5	2.96
40x45x5	40	45	5	2	1.5	2.5	5	3.14
45x45x5.5	45	45	5.5	2	1.5	3	5.5	3.67
50x50x6	50	50	6	2	1.5	3	6	4.44
60x30x5.5	60	30	5.5	2	1.5	3	5.5	3.64
60x60x7	60	60	7	2	2	3.5	7	6.23
70x70x8	70	70	8	2	2	4	8	8.32
80x40x7	80	40	7	2	2	3.5	7	6.21
80x80x9	80	80	9	2	2	4.5	9	10.7
100x100x11	100	100	11	2	3	5.5	11	16.4
120x120x13	120	120	13	2	3	6.5	13	23.2

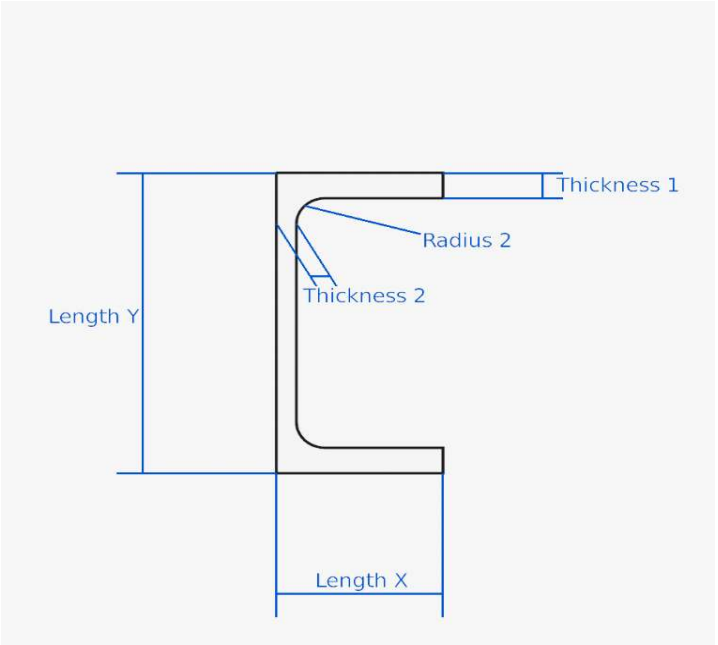


Add 'U Beam'

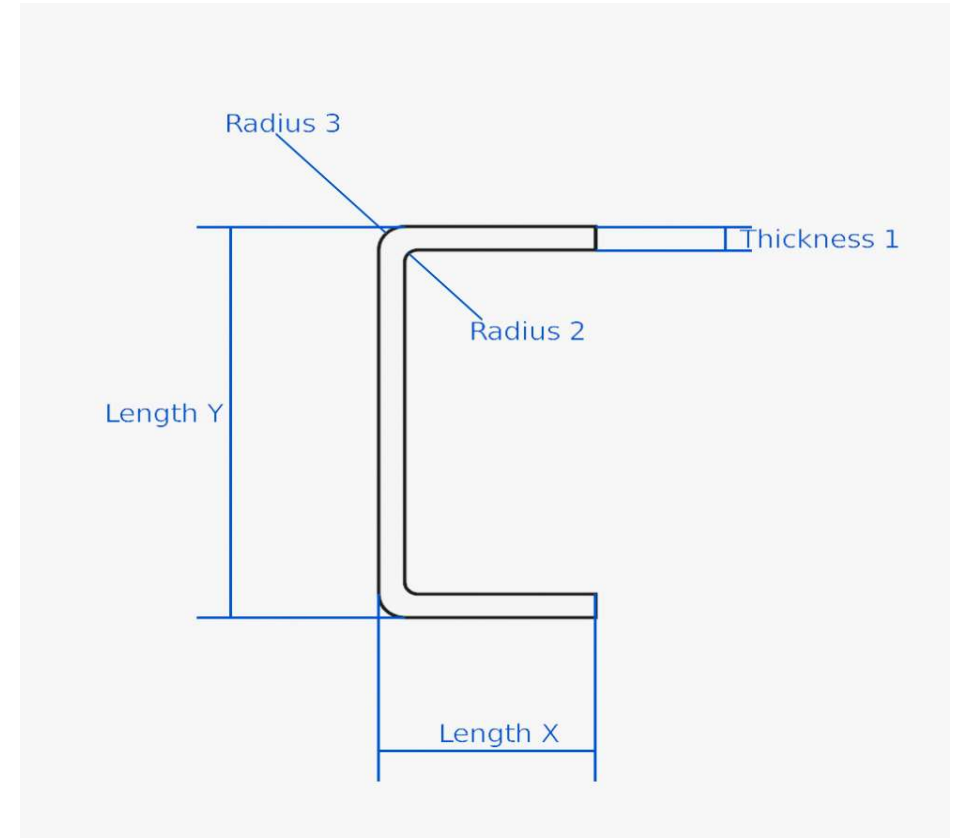
Name	Length X	Length Y	Thickness 1	Thickness 2	Taper	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
UPN80	45	80	8	6	14	4	8	0	8.64
UPN100	50	100	8.5	6	14	4.5	8.5	0	10.6
UPN120	55	120	9	7	14	4.5	9	0	13.4
UPN140	60	140	10	7	14	5	10	0	16
UPN160	65	160	10.5	7.5	14	5.5	10.5	0	18.8
UPN180	70	180	11	8	14	5.5	11	0	22
UPN200	75	200	11.5	8.5	14	6	11.5	0	25.3
UPN220	80	220	12.5	9	14	6.5	12.5	0	29.4
UPN240	85	240	13	9.5	14	6.5	13	0	33.2
UPN260	90	260	14	10	14	7	14	0	37.9
UPN280	95	280	15	10	14	7.5	15	0	41.8
UPN300	100	300	16	10	14	8	16	0	46.2



Name	Length X	Length Y	Thickness 1	Thickness 2	Taper	Radius 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
UAP80	45	80	8	5	0	0	8	0	0.33
UAP100	50	100	8.5	5.5	0	0	8.5	0	0.689
UAP130	55	130	9.5	6	0	0	9.5	0	0.468
UAP150	65	150	10.25	7	0	0	10.25	0	0.546
UAP175	70	175	10.75	7.5	0	0	10.75	0	0.615
UAP200	75	200	11.5	8	0	0	11.5	0	0.684
UAP220	80	220	12.5	8	0	0	12.5	0	0.744
UAP250	85	250	13.5	9	0	0	13.5	0	0.822
UAP300	100	300	16	9.5	0	0	16	0	0.981



Name	Length X	Length Y	Thickness 1	Radius 2	Radius 3	Linear mass (Kg/m) (Steel)
COUL11x7x15	11	7	1.5	1.5	3	0.283
COUL10x10x10	10	10	1	1	2	0.209
COUL15x10x15	15	10	1.5	1.5	3	0.397
COUL18x10x20	18	10	2	2	4	0.618
COUL25x10x20	25	10	2	2	4	0.838
COUL30x11x20	30	11	2	2	4	1.011
COUL20x13x20	20	13	2	2	4	0.728
COUL14x14x20	14	14	2	2	4	0.556
COUL30x14x20	30	14	2	2	4	1.028
COUL20x15x15	20	15	1.5	1.5	3	0.589
COUL10x20x15	10	20	1.5	1.5	3	0.412
COUL15x20x20	15	20	2	2	4	0.681
COUL20x20x15	20	20	1.5	1.5	3	0.648
COUL20x20x20	20	20	2	2	4	0.838
COUL25x20x20	25	20	2	2	4	0.995
COUL35x22x20	35	22	2	2	4	1.341
COUL10x25x15	10	25	1.5	1.5	3	0.471
COUL20x25x2	20	25	2	2	4	0.917
COUL25x25x20	25	25	2	2	4	1.074
COUL30x25x20	30	25	2	2	4	1.231
COUL35x25x20	35	25	2	2	4	1.388
COUL40x25x20	40	25	2	2	4	1.545
COUL15x30x15	15	30	1.5	1.5	3	0.648
COUL20x30x20	20	30	2	2	4	0.995
COUL30x30x20	30	30	2	2	4	1.309
COUL30x30x30	30	30	3	3	6	1.887
COUL40x30x25	40	30	2.5	2.5	5	1.996
COUL50x30x30	50	30	3	3	6	2.829



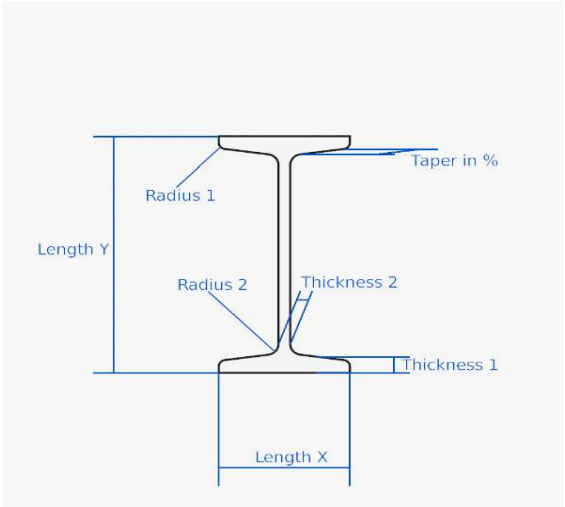
Thickness 2 = Taper = Radius 1 = 0

Radius 2 = Thickness

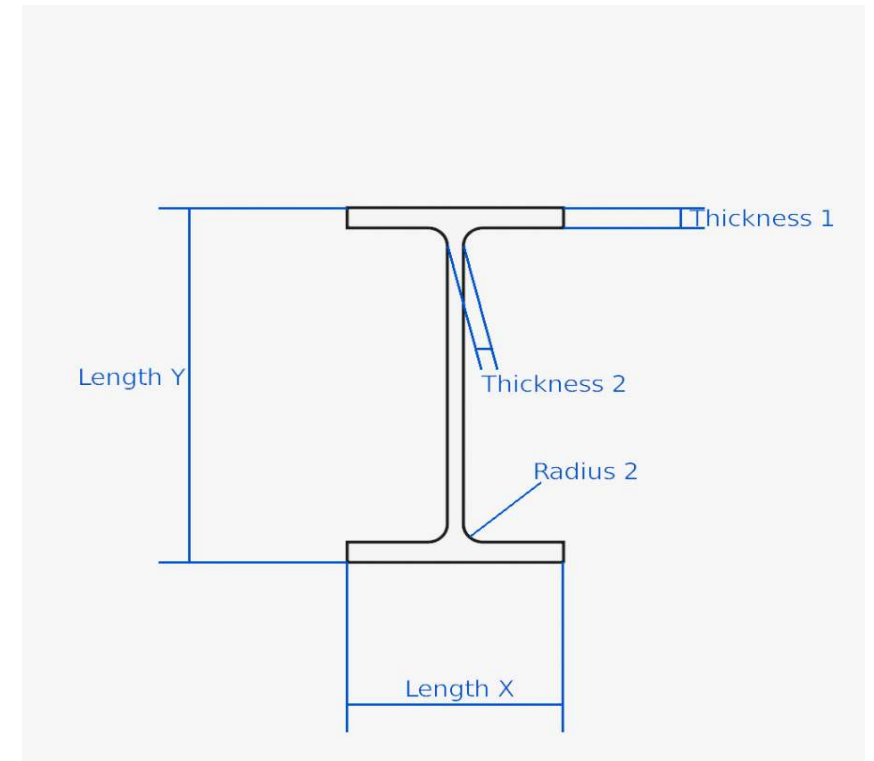
Radius 3 = Radius 2 * 2

Add 'I Beam'

Name	Length X	Length Y	Thickness 1	Thickness 2	Taper	Radius 1	Radius 2	Linear mass (Kg/m) (Steel)
IPN80	42	80	5.9	3.9	14	2.3	3.9	5.95
IPN100	50	100	6.8	4.5	14	2.7	4.5	8.32
IPN120	58	120	7.7	5.1	14	3.1	5.1	11.2
IPN140	66	140	8.6	5.7	14	3.4	5.7	14.4
IPN160	74	160	9.5	6.3	14	3.8	6.3	17.9
IPN180	82	180	10.4	6.9	14	4.1	6.9	21.9
IPN200	90	200	11.3	7.5	14	4.5	7.5	23.3
IPN220	98	220	12.2	8.1	14	4.9	8.1	31.1
IPN240	106	240	13.1	8.7	14	5.2	8.7	36.2
IPN260	113	260	14.1	9.4	14	5.6	9.4	41.9
IPN280	119	280	15.2	10.1	14	6.1	10.1	48
IPN300	125	300	16.2	10.8	14	6.5	10.8	54.2
IPN320	131	320	17.3	11.5	14	6.9	11.5	61.1
IPN340	137	340	18.3	12.2	14	7.3	12.2	68.1
IPN360	143	360	19.5	13	14	7.8	13	76.2
IPN380	149	380	20.5	13.7	14	8.2	13.7	84
IPN400	155	400	21.6	14.4	14	8.6	14.4	92.6
IPN450	170	450	24.3	16.2	14	9.7	16.2	115
IPN500	185	500	27	18	14	10.8	18	141
IPN550	200	550	30	19	14	11.9	19	167



Name	Length X	Length Y	Thickness 1	Thickness 2	Radius 2	Linear mass (Kg/m) (Steel)
IPE80	46	80	5.2	3.8	5	6
IPE100	55	100	5.7	4.1	7	8.1
IPE120	64	120	6.3	4.4	7	10.4
IPE140	73	140	6.9	4.7	7	12.9
IPE160	82	160	7.4	5	9	15.8
IPE180	91	180	8	5.3	9	18.8
IPE200	100	200	8.5	5.6	12	22.4
IPE220	110	220	9.2	5.9	12	26.2
IPE240	120	240	9.8	6.2	15	30.7
IPE270	135	270	10.2	6.6	15	36.1
IPE300	150	300	10.7	7.1	15	42.2
IPE330	160	330	11.5	7.5	18	49.1
IPE360	170	360	12.7	8	18	57.1
IPE400	180	400	13.5	8.6	21	66.3
IPE450	190	450	14.6	9.4	21	77.6
IPE500	200	500	16	10.2	21	90.7
IPE550	210	550	17.2	11.1	24	106
IPE600	220	600	19	12	24	122
IPEA80	46	78	4.2	3.3	5	5
IPEA100	55	98	4.7	3.6	7	6.9
IPEA120	64	117.6	5.1	3.8	7	8.6
IPEA140	73	137.4	5.6	3.8	7	10.5
IPEA160	82	157	5.9	4	9	12.7
IPEA180	91	177	6.5	4.3	9	15.4
IPEA200	100	197	7	4.5	12	18.4
IPEA220	110	217	7.7	5	12	22.2
IPEA240	120	237	9.3	5.2	15	26.2
IPEA270	135	267	8.7	6.1	15	30.7
IPEA300	150	297	9.2	6.5	15	36.5
IPEA330	160	327	100	6.6	18	43



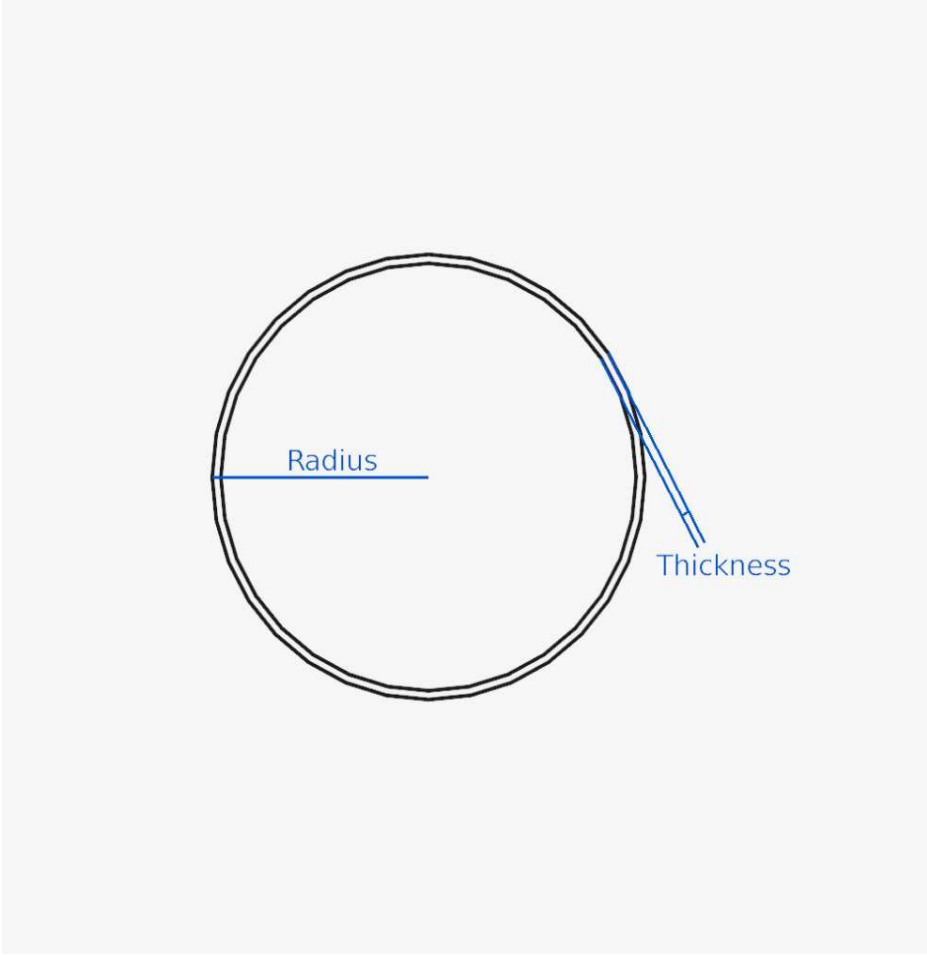
Taper = Radius 1 = 0

Name	Length X	Length Y	Thickness 1	Thickness 2	Radius 2	Linear mass (Kg/m) (Steel)
IPEA360	170	357.6	11.5	7	18	50.2
IPEA400	180	397	12	7.6	21	57.4
IPEA450	190	447	13.1	8.4	21	67.2
IPEA500	200	497	14.5	9	21	79.4
IPEA550	210	547	15.7	9.8	24	92.1
IPEA600	220	600	17.5	12	24	108

Add 'O Beam'

Name	Radius	Thickness	Linear mass (Kg/m) (Steel)		
TM1-4	13.5	2	0.567		
TM3-8	17.2	2	0.75		
TM1-2	21.3	2.3	1.08		
TM3-4	26.9	2.3	1.4		
TM1	33.7	2.9	2.2		
TM1_1-4	42.4	2.9	2.82		
TM1_1-2	48.3	2.9	3.25		
TM2	60.3	3.2	4.51		
TM2_1-4	70	3.2	5.27		
TM2_1-2	76.1	3.2	5.75		
TM3	88.9	3.2	6.76		
TM3_1-2	101.6	3.6	8.7		
TM4	114.3	3.6	9.83		
TM5	139.7	4.5	15		
TM6	165.1	4.5	17.8		

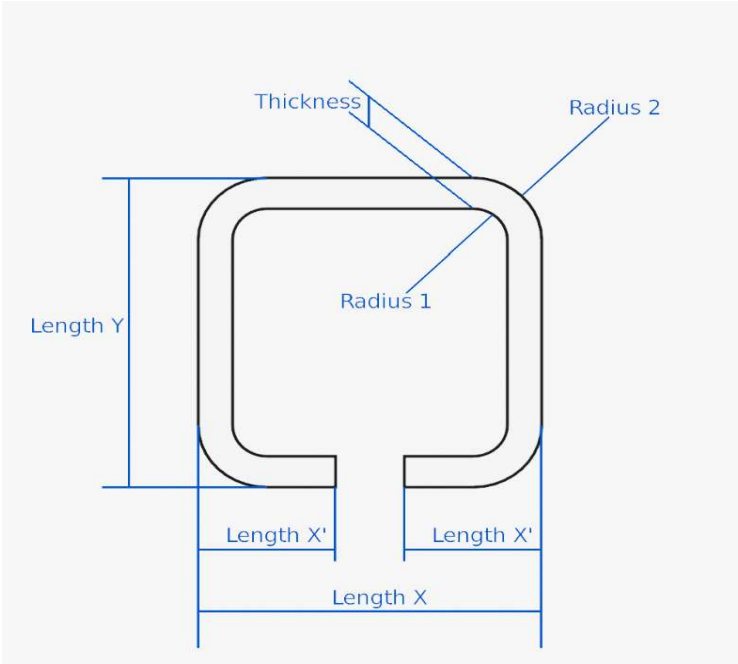
Name	Radius	Thickness	Thickness	Thickness	Thickness
TR_12	12	1.5			
TR_14	14	1.5	2		
TR_16	16	1.5	2		
TR_18	18	1.5	2		
TR_20	20	1.5	2	2.5	
TR_22	22	1.5	2	2.5	
TR_25	25	1.5	2	2.5	
TR_26	26	1.5	2	2.5	
TR_28	28	1.5	2	2.5	
TR_30	30	1.5	2	2.5	
TR_32	32	1.5	2	2.5	



TR_35	35	1.5	2	2.5	
Name	Radius	Thickness	Thickness	Thickness	Thickness
TR_38	38	1.5	2	2.5	3
TR_40	40	1.5	2	2.5	3
TR_42	42	1.5	2	2.5	3
TR_45	45	1.5	2	2.5	3
TR_48	48	1.5	2	2.5	3
TR_50	50	1.5	2	2.5	3
TR_55	55	1.5	2	2.5	3
TR_57	57	1.5	2	2.5	3
TR_60	60	1.5	2	2.5	3
TR_60.3	60.3	1.5	2	2.5	3
TR_70	70	1.5	2	2.5	3
TR_76.1	76.1	1.5	2	2.5	3
TR_80	80	1.5	2	2.5	3
TR_88.9	88.9	1.5	2	2.5	3
TR_101.6	101.6	1.5	2	2.5	3
TR_108	108	1.5	2	2.5	3
TR_114.3	114.3	1.5	2	2.5	3
TR_120	120	1.5	2	2.5	3
TR_127	127	1.5	2	2.5	3
TR_133	133	1.5	2	2.5	3
TR_139.7	139.7	1.5	2	2.5	3
TR_159	159	1.5	2	2.5	3
TR_168.3	168.3	1.5	2	2.5	3

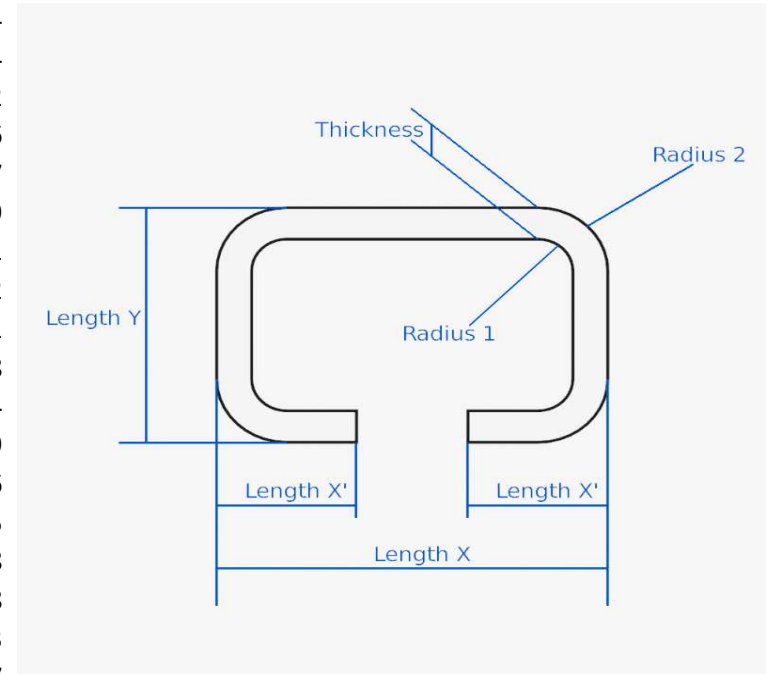
Add 'Special Box Beam'

Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Length X'	Linear mass (Kg/m) (Steel)
TCO7392	15	15	1.5	1.5	3	4.25	0.49
TCO7424	20	20	2	2	4	5	0.85
TCO7430	20	20	2	2	4	8	0.95
TCO7456	25	25	2	2	4	10	1.25
TCO7488	30	30	2	2	4	11.5	1.53
TCO7520	35	35	2	2	4	10	1.72
TCO7536	35	35	2	2	4	14	1.84
TCO7608	40	40	4	4	8	17.5	3.88
TCO7613	50	50	3	3	6	17.5	3.8
TCO7623	50	50	5	5	10	17	5.88



Radius 1 = Thickness
Radius 2 = Radius 1 * 2

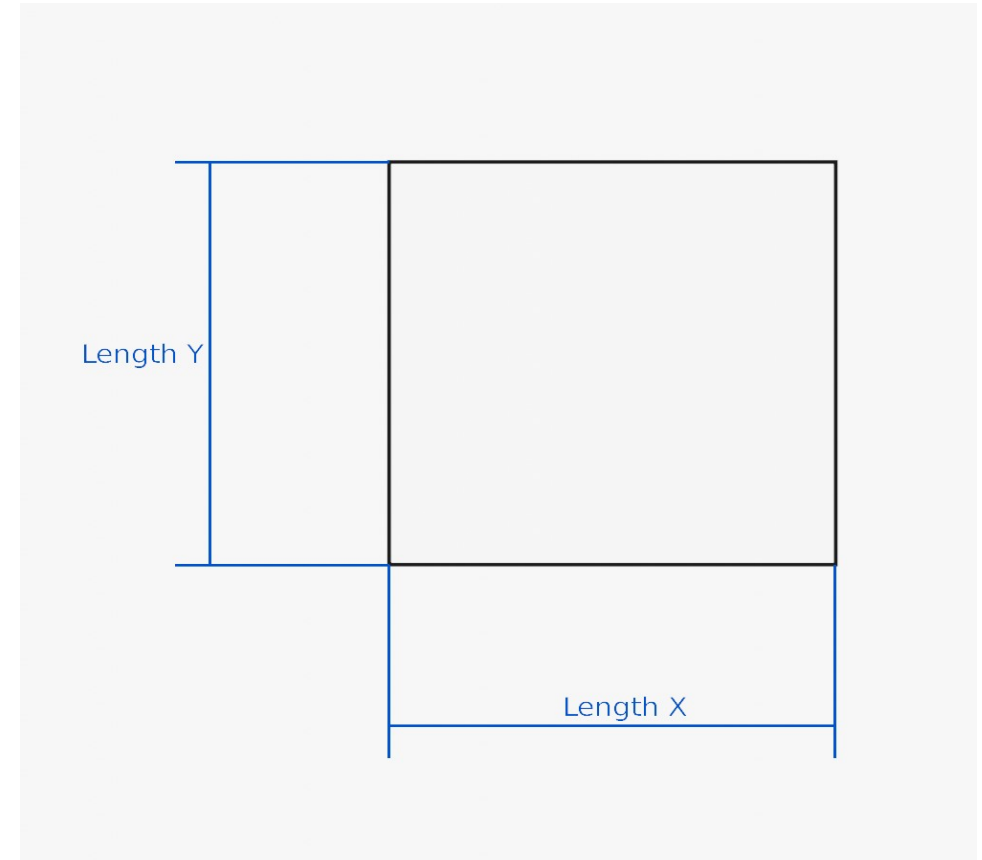
Name	Length X	Length Y	Thickness	Radius 1	Radius 2	Length X'	Linear mass (Kg/m) (Steel)
TRO8291	20	14	1.5	1.5	3	5	0.54
TRO9298	30	15	1.5	1.5	3	7.5	0.74
TRO8340	40	20	2	2	4	10	1.32
TRO8350	40	25	2	2	4	12.5	1.56
TRO8356	50	25	2	2	4	12	1.7
TRO8360	50	25	3	3	6	12.5	2.39
TRO8372	60	30	2	2	4	15	2.11
TRO8385	70	32	0.5	0.5	1	16	1.82
TRO8380	80	32	0.5	0.5	1	15	1.91
TRO8427	80	40	2	3	6	15	2.78
TRO8437	80	40	2.5	2.6	5.2	15	3.34
TRO8429	80	40	2	2	4	20	2.89
TRO8439	80	40	3	3	6	20	4.16
TRO8440	80	40	4	4	8	20	5.45
TRO8465	80	50	3	3	6	15	4.48
TRO8455	100	40	2.5	2.6	5.2	15	3.8
TRO8480	100	50	3	3	6	25	5.33
TRO8485	100	50	4	4	8	25	6.87
TRO8490	100	50	5	5	10	25	8.17
TRO8386	102	32	1.5	1.6	3.2	15	2.17
TRO8456	120	40	3	3	6	15	4.86
TRO8532	125	62.5	5	5	10	25	10.13
TRO8478	140	50	3	3	6	20	6.04
TRO8484	140	50	3	3	6	25	6.28
TRO8630	160	80	5	5	10	25	12.88
TRO8650	190	50	3	3	6	37	8.02
TRO8654	270	50	2.5	2.6	5.2	15	7.52



Radius 1 = Thickness
Radius 2 = Radius 1 * 2

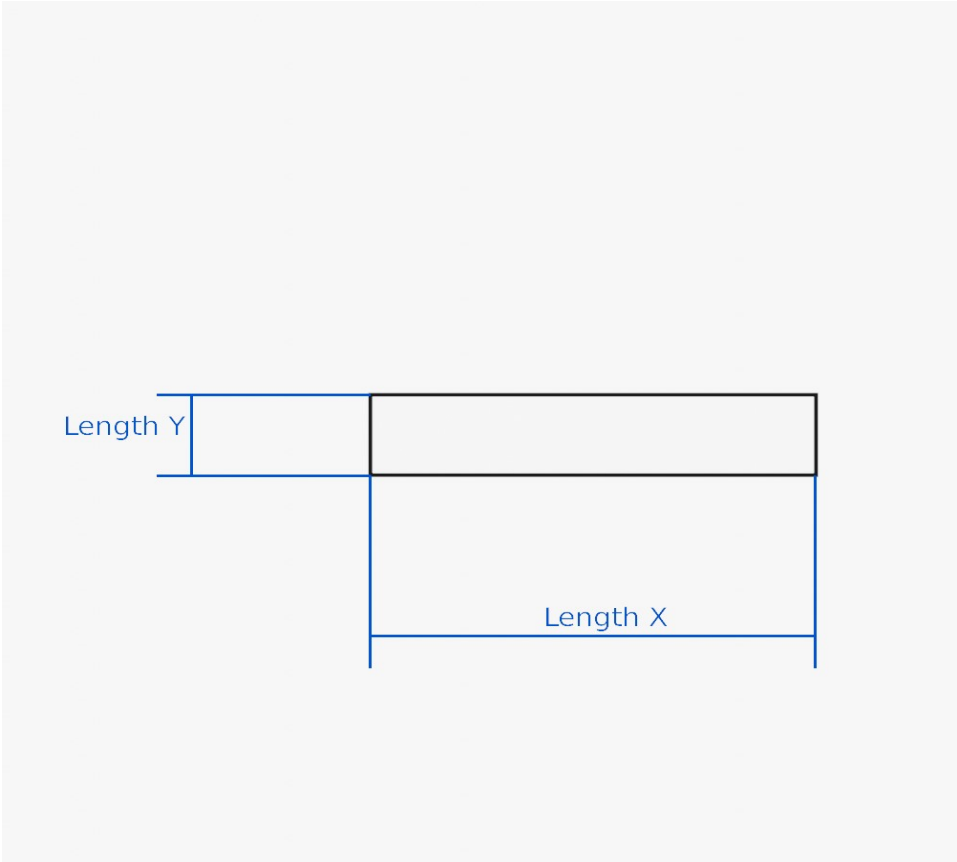
Add 'Other Beam'

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
C6	6	6	0.282
C8	8	8	0.0502
C10	10	10	0.785
C12	12	12	1.13
C14	14	14	1.538
C16	16	16	2.009
C18	18	18	2.543
C20	20	20	3.14
C22	22	22	3.799
C25	25	25	4.906
C30	30	30	7.065
C35	35	35	9.616
C40	40	40	12.56
C45	45	45	15.896
C50	50	50	19.625
C60	60	60	28.26
C70	70	70	38.47
C80	80	80	50.24
C90	90	90	63.59
C100	100	100	78.5
C120	120	120	113.04



Radius 1 = Radius 2 = Radius 3 = Radius 4 = 0

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
14x3	14	3	0.33
14x4	14	4	0.44
14x5	14	5	0.05
14x6	14	6	0.066
14x8	14	8	0.088
16x3	16	3	0.377
16x4	16	4	0.503
18x3	18	3	0.424
18x4	18	4	0.565
18X6	18	5	0.707
20x3	20	3	0.472
20x4	20	4	0.628
20x5	20	5	0.785
20x6	20	6	0.942
20x8	20	8	1.25
20x10	20	10	1.57
20x12	20	12	1.88
20x14	20	14	2.2
20x15	20	15	2.36
20x16	20	16	2.51
25x3	25	3	0.59
25x4	25	4	0.785
25x5	25	5	0.98
25x6	25	6	1.18
25x8	25	8	1.57
25x10	25	10	1.96
25x12	25	12	2.35



Radius 1 = Radius 2 = Radius 3 = Radius 4 = 0

25x14	25	14	2.75
25x15	25	15	2.94
25x16	25	16	3.14
30x3	30	3	0.707

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
30x4	30	4	0.942
30x5	30	5	1.18
30x6	30	6	1.41
30x8	30	8	1.88
30x10	30	10	2.36
30x12	30	12	2.83
30x14	30	14	3.3
30x16	30	16	3.77
30x20	30	20	4.71
35x3	35	3	0.824
35x4	35	4	1.1
35x5	35	5	1.37
35x6	35	6	1.65
35x8	35	8	2.2
35x10	35	10	2.75
35x12	35	12	3.3
35x14	35	14	3.85
35x15	35	15	4.12
35x16	35	16	4.4
35x20	35	20	5.5
40x3	40	3	0.942
40x4	40	4	1.25
40x5	40	5	1.57
40x6	40	6	1.88
40x8	40	8	2.51
40x10	40	10	3.14

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
40x25	40	25	7.85
40x30	40	30	9.42
45x3	45	3	1.06
45x4	45	4	1.41
45x5	45	5	1.77
45x6	45	6	2.12
45x8	45	8	2.82
45x10	45	10	3.53
45x12	45	12	4.24
45x14	45	14	4.95
45x15	45	15	5.3
45x16	45	16	5.65
45x20	45	20	7.07
45x30	45	30	10.6
50x3	50	3	1.176
50x4	50	4	1.57
50x5	50	5	1.96
50x6	50	6	2.36
50x8	50	8	3.14
50x10	50	10	3.93
50x12	50	12	4.71
50x14	50	14	5.5
50x15	50	15	5.89
50x16	50	16	6.28
50x20	50	20	7.85
50x25	50	25	9.81

40x12	40	12	3.77
40x14	40	14	4.4
40x15	40	15	4.71
40x16	40	16	5.02
40x20	40	20	6.28

50x30	50	30	11.8
60x3	60	3	1.413
60x4	60	4	1.88
60x5	60	5	2.36
60x6	60	6	2.83

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
60x8	60	8	3.77
60x10	60	10	4.71
60x12	60	12	5.65
60x14	60	14	6.6
60x15	60	15	7.07
60x16	60	16	7.54
60x20	60	20	9.42
60x25	60	25	11.8
60x30	60	30	14.13
60x40	60	40	18.84
70x4	70	4	2.2
70x5	70	5	2.75
70x6	70	6	3.3
70x8	70	8	4.4
70x10	70	10	5.5
70x12	70	12	6.6
70x14	70	14	7.7
70x15	70	15	8.24
70x16	70	16	8.79
70x20	70	20	11
70x25	70	25	13.74
70x30	70	30	16.5
70x40	70	40	22
80x4	80	4	2.51
80x5	80	5	3.14

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
80x16	80	16	10.05
80x20	80	20	12.56
80x25	80	25	15.7
80x30	80	30	18.84
80x40	80	40	25.1
80x50	80	50	31.4
90x5	90	5	3.53
90x6	90	6	4.24
90x8	90	8	5.65
90x10	90	10	7.07
90x12	90	12	8.48
90x14	90	14	9.89
90x15	90	15	10.6
90x16	90	16	11.3
90x20	90	20	14.1
90x25	90	25	17.7
90x30	90	30	21.2
100x4	100	4	3.14
100x5	100	5	3.92
100x6	100	6	4.71
100x8	100	8	6.28
100x10	100	10	7.85
100x12	100	12	9.42
100x14	100	14	11
100x15	100	15	11.8

80x6	80	6	3.77	100x16	100	16	12.6
80x8	80	8	5.02	100x20	100	20	15.7
80x10	80	10	6.28	100x25	100	25	19.6
80x12	80	12	7.54	100x30	100	30	23.55
80x14	80	14	8.79	100x40	100	40	31.4
80x15	80	15	9.42	100x50	100	50	39.25

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)	Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
110x6	110	6	5.18	140x16	140	16	17.6
110x8	110	8	6.91	140x20	140	20	21.98
110x10	110	10	8.64	140x25	140	25	27.47
110x12	110	12	10.36	140x30	140	30	32.97
110x15	110	15	12.95	140x40	140	40	43.96
110x20	110	20	17.3	150x5	150	5	5.89
120x5	120	5	4.71	150x6	150	6	7.07
120x6	120	6	5.65	140x8	150	8	9.42
120x8	120	8	7.54	150x10	150	10	11.78
120x10	120	10	9.42	150x12	150	12	14.13
120x12	120	12	11.3	150x14	150	14	16.48
120x14	120	14	13.2	150x15	150	15	17.66
120x15	120	15	14.13	150x16	150	16	18.84
120x16	120	16	15.07	150x20	150	20	23.55
120x20	120	20	18.84	150x25	150	25	29.43
120x25	120	25	23.55	150x30	150	30	35.32
120x30	120	30	28.26	160x6	160	6	7.53
120x40	120	40	37.68	160x8	160	8	10.04
130x6	130	6	6.12	160x10	160	10	12.56
130x8	130	8	8.16	160x12	160	12	15.07
130x10	130	10	10.2	160x15	160	15	18.84
130x12	130	12	12.25	160x20	160	20	25.12
130x15	130	15	15.3	180x6	180	6	8.47
130x20	130	20	20.4	180x8	180	8	11.3

140x5	140	5	5.49
140x6	140	6	6.6
140x8	140	8	8.79
140x10	140	10	10.99
140x12	140	12	13.2
140x14	140	14	15.4
140x15	140	15	16.5

180x10	180	10	14.13
180x12	180	12	16.95
180x15	180	15	21.2
180x20	180	20	28.26
180x25	180	25	35.3
200x6	200	5	9.42
200x8	200	8	12.56

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
200x10	200	10	15.7
200x12	200	12	18.84
200x15	200	15	23.55
200x20	200	20	31.4
200x25	200	25	39.25
200x30	200	30	47.1
220x6	220	6	10.35
220x8	220	8	13.81
220x10	220	10	17.27
220x12	220	12	20.7
220x15	220	15	25.9
220x20	220	20	35.54
250x6	250	6	11.77
250x8	250	8	15.7
250x10	250	10	19.62
250x12	250	12	23.55
250x15	250	15	29.43
250x20	250	20	39.25
250x25	250	25	49.1
250x30	250	30	58.86
300x6	300	6	14.13
300x8	300	8	18.84
300x10	300	10	23.55

Name	Length X	Length Y	Linear mass (Kg/m) (Steel)
350x25	250	25	68.7
350x30	250	30	82.4
400x8	400	8	25.12
400x10	400	10	31.4
400x15	400	15	47.1
400x25	400	25	78
400x30	400	30	94.2

300x12	300	12	28.26
300x15	300	15	35.32
300x20	300	20	47.1
300x25	300	25	58.9
300x30	300	30	70.65
350x10	350	10	27.47
350x15	250	15	41.2
350x20	250	20	54.94

Name	Radius	Linear mass (Kg/m) (Steel)
R6	3	0.222
R8	4	0.395
R10	5	0.617
R12	6	0.888
R14	7	1.208
R16	8	1.578
R20	10	2.466
R25	12.5	3.853
R32	16	6.313
R40	20	9.865

Length X = Length X' = Length Y = Length Y' = Radius * 2
 Radius 1 = Radius 2 = Radius 3 = Radius 4 = Radius

