

Ghia Steel – Hot Rolled Shapes (Sizes & Weights)

The tables below provide **theoretical weights per foot** based on a steel density of 0.2836 lb/in³ and nominal dimensions. Actual weights may vary by mill tolerances.

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Hot Rolled Round Bars

Weights are calculated from nominal diameter.

Diameter (in.)	Weight (lb/ft)
0.125	0.042
0.188	0.094
0.25	0.167
0.312	0.261
0.375	0.376
0.438	0.512
0.5	0.668
0.562	0.846
0.625	1.044
0.688	1.263
0.75	1.503
0.812	1.765
0.875	2.046
0.938	2.349
1	2.673
1.062	3.017
1.125	3.383
1.188	3.769
1.25	4.176
1.312	4.604
1.375	5.053
1.438	5.523
1.5	6.014
1.562	6.526
1.625	7.058
1.688	7.611

1.75	8.186
1.812	8.781
1.875	9.397
1.938	10.03
2	10.69
2.062	11.37
2.125	12.07
2.188	12.79
2.25	13.53
2.312	14.29
2.375	15.08
2.438	15.88
2.5	16.71
2.562	17.55
2.625	18.42
2.688	19.31
2.75	20.21
2.812	21.14
2.875	22.09
2.938	23.06
3	24.06
3.25	28.23
3.5	32.74
3.75	37.59
4	42.77
4.25	48.28
4.5	54.13
4.75	60.31
5	66.82
5.25	73.67
5.5	80.85
5.75	88.37
6	96.22
6.25	104.41

6.5	112.93
6.75	121.78
7	130.97
7.25	140.49
7.5	150.35
7.75	160.54
8	171.06
8.25	181.92
8.5	193.11
8.75	204.64
9	216.5
9.25	228.7
9.5	241.23
9.75	254.09
10	267.29
10.25	280.82
10.5	294.68
10.75	308.88
11	323.42
11.25	338.28
11.5	353.49
11.75	369.02
12	384.89

Hot Rolled Square Bars

Weights are calculated from nominal side dimension.

Square Size (in.)	Weight (lb/ft)
0.125	0.053
0.25	0.213
0.375	0.479
0.5	0.851
0.625	1.329
0.75	1.914
0.875	2.606

1	3.403
1.125	4.307
1.25	5.318
1.375	6.434
1.5	7.657
1.625	8.987
1.75	10.42
1.875	11.96
2	13.61
2.125	15.37
2.25	17.23
2.375	19.2
2.5	21.27
2.625	23.45
2.75	25.74
2.875	28.13
3	30.63
3.125	33.23
3.25	35.95
3.375	38.76
3.5	41.69
3.625	44.72
3.75	47.86
3.875	51.1
4	54.45

Hot Rolled Flat Bars

Weights are calculated from nominal thickness × width.

Thickness: 0.125 in.

Width (in.)	Weight (lb/ft)
0.5	0.213
0.75	0.319
1	0.425
1.25	0.532
1.5	0.638
2	0.851
2.5	1.064
3	1.276
4	1.702
5	2.127
6	2.552
8	3.403
10	4.254
12	5.105
24	10.21

Thickness: 0.188 in.

Width (in.)	Weight (lb/ft)
0.5	0.319
0.75	0.479
1	0.638
1.25	0.798
1.5	0.957
2	1.276
2.5	1.595
3	1.914
4	2.552
5	3.191
6	3.829

8	5.105
10	6.381
12	7.657
24	15.31

Thickness: 0.25 in.

Width (in.)	Weight (lb/ft)
0.5	0.425
0.75	0.638
1	0.851
1.25	1.064
1.5	1.276
2	1.702
2.5	2.127
3	2.552
4	3.403
5	4.254
6	5.105
8	6.806
10	8.508
12	10.21
24	20.42

Thickness: 0.312 in.

Width (in.)	Weight (lb/ft)
0.5	0.532
0.75	0.798
1	1.064
1.25	1.329
1.5	1.595
2	2.127
2.5	2.659
3	3.191
4	4.254

5	5.318
6	6.381
8	8.508
10	10.64
12	12.76
24	25.52

Thickness: 0.375 in.

Width (in.)	Weight (lb/ft)
0.5	0.638
0.75	0.957
1	1.276
1.25	1.595
1.5	1.914
2	2.552
2.5	3.191
3	3.829
4	5.105
5	6.381
6	7.657
8	10.21
10	12.76
12	15.31
24	30.63

Thickness: 0.5 in.

Width (in.)	Weight (lb/ft)
0.5	0.851
0.75	1.276
1	1.702
1.25	2.127
1.5	2.552
2	3.403
2.5	4.254

3	5.105
4	6.806
5	8.508
6	10.21
8	13.61
10	17.02
12	20.42
24	40.84

Thickness: 0.625 in.

Width (in.)	Weight (lb/ft)
0.5	1.064
0.75	1.595
1	2.127
1.25	2.659
1.5	3.191
2	4.254
2.5	5.318
3	6.381
4	8.508
5	10.64
6	12.76
8	17.02
10	21.27
12	25.52
24	51.05

Thickness: 0.75 in.

Width (in.)	Weight (lb/ft)
0.5	1.276
0.75	1.914
1	2.552
1.25	3.191
1.5	3.829

2	5.105
2.5	6.381
3	7.657
4	10.21
5	12.76
6	15.31
8	20.42
10	25.52
12	30.63
24	61.26

Thickness: 1 in.

Width (in.)	Weight (lb/ft)
0.5	1.702
0.75	2.552
1	3.403
1.25	4.254
1.5	5.105
2	6.806
2.5	8.508
3	10.21
4	13.61
5	17.02
6	20.42
8	27.23
10	34.03
12	40.84
24	81.68

Thickness: 1.25 in.

Width (in.)	Weight (lb/ft)
0.5	2.127
0.75	3.191
1	4.254

1.25	5.318
1.5	6.381
2	8.508
2.5	10.64
3	12.76
4	17.02
5	21.27
6	25.52
8	34.03
10	42.54
12	51.05
24	102.1

Thickness: 1.5 in.

Width (in.)	Weight (lb/ft)
0.5	2.552
0.75	3.829
1	5.105
1.25	6.381
1.5	7.657
2	10.21
2.5	12.76
3	15.31
4	20.42
5	25.52
6	30.63
8	40.84
10	51.05
12	61.26
24	122.52

Thickness: 2 in.

Width (in.)	Weight (lb/ft)
0.5	3.403

0.75	5.105
1	6.806
1.25	8.508
1.5	10.21
2	13.61
2.5	17.02
3	20.42
4	27.23
5	34.03
6	40.84
8	54.45
10	68.06
12	81.68
24	163.35

Hot Rolled Angles (L)

Weights are calculated using a nominal sharp-corner approximation: $\text{area} = t \times (a + b - t)$.

Equal Leg Angles

Legs (in.)	Thickness (in.)	Weight (lb/ft)
0.5 × 0.5	0.125	0.372
0.625 × 0.625	0.125	0.479
0.75 × 0.75	0.125	0.585
0.75 × 0.75	0.188	0.838
0.875 × 0.875	0.125	0.691
1 × 1	0.125	0.798
1 × 1	0.188	1.157
1 × 1	0.25	1.489
1.25 × 1.25	0.125	1.01
1.25 × 1.25	0.188	1.476
1.25 × 1.25	0.25	1.914
1.5 × 1.5	0.125	1.223
1.5 × 1.5	0.188	1.795
1.5 × 1.5	0.25	2.34
1.5 × 1.5	0.312	2.858
1.5 × 1.5	0.375	3.35
1.75 × 1.75	0.125	1.436
1.75 × 1.75	0.188	2.114
1.75 × 1.75	0.25	2.765
2 × 2	0.125	1.648
2 × 2	0.188	2.433
2 × 2	0.25	3.191
2 × 2	0.312	3.922
2 × 2	0.375	4.626
2.5 × 2.5	0.125	2.074
2.5 × 2.5	0.188	3.071
2.5 × 2.5	0.25	4.041
2.5 × 2.5	0.312	4.985
2.5 × 2.5	0.375	5.902

2.5 × 2.5	0.5	7.657
3 × 3	0.125	2.499
3 × 3	0.188	3.709
3 × 3	0.25	4.892
3 × 3	0.312	6.049
3 × 3	0.375	7.179
3 × 3	0.438	8.282
3 × 3	0.5	9.359
3.5 × 3.5	0.25	5.743
3.5 × 3.5	0.312	7.112
3.5 × 3.5	0.375	8.455
3.5 × 3.5	0.438	9.771
3.5 × 3.5	0.5	11.06
4 × 4	0.25	6.594
4 × 4	0.312	8.176
4 × 4	0.375	9.731
4 × 4	0.438	11.26
4 × 4	0.5	12.76
4 × 4	0.625	15.69
4 × 4	0.75	18.5
5 × 5	0.312	10.3
5 × 5	0.375	12.28
5 × 5	0.5	16.17
5 × 5	0.625	19.94
5 × 5	0.75	23.61
5 × 5	0.875	27.17
6 × 6	0.312	12.43
6 × 6	0.375	14.84
6 × 6	0.438	17.22
6 × 6	0.5	19.57
6 × 6	0.562	21.89
6 × 6	0.625	24.19
6 × 6	0.75	28.71
6 × 6	0.875	33.13

6 × 6	1	37.44
8 × 8	0.5	26.37
8 × 8	0.562	29.55
8 × 8	0.625	32.7
8 × 8	0.75	38.92
8 × 8	0.875	45.04
8 × 8	1	51.05
8 × 8	1.125	56.95

Unequal Leg Angles

Legs (in.)	Thickness (in.)	Weight (lb/ft)
2 × 1.5	0.125	1.436
2 × 1.5	0.188	2.114
2 × 1.5	0.25	2.765
2 × 1.5	0.312	3.39
2.5 × 1.5	0.188	2.433
2.5 × 1.5	0.25	3.191
2.5 × 2	0.125	1.861
2.5 × 2	0.188	2.752
2.5 × 2	0.25	3.616
2.5 × 2	0.312	4.453
2.5 × 2	0.375	5.264
3 × 2	0.188	3.071
3 × 2	0.25	4.041
3 × 2	0.312	4.985
3 × 2	0.375	5.902
3 × 2	0.438	6.793
3 × 2	0.5	7.657
3 × 2.5	0.25	4.467
3 × 2.5	0.312	5.517
3 × 2.5	0.375	6.541
3 × 2.5	0.5	8.508
3.5 × 2.5	0.188	3.709
3.5 × 2.5	0.25	4.892

3.5 × 2.5	0.312	6.049
3.5 × 2.5	0.375	7.179
3.5 × 2.5	0.438	8.282
3.5 × 2.5	0.5	9.359
4 × 3	0.25	5.743
4 × 3	0.312	7.112
4 × 3	0.375	8.455
4 × 3	0.438	9.771
4 × 3	0.5	11.06
4 × 3	0.625	13.56
4 × 3.5	0.25	6.168
4 × 3.5	0.312	7.644
4 × 3.5	0.375	9.093
4 × 3.5	0.438	10.52
4 × 3.5	0.5	11.91
4 × 3.5	0.625	14.62
5 × 3	0.25	6.594
5 × 3	0.312	8.176
5 × 3	0.375	9.731
5 × 3	0.438	11.26
5 × 3	0.5	12.76
5 × 3.5	0.25	7.019
5 × 3.5	0.312	8.707
5 × 3.5	0.375	10.37
5 × 3.5	0.438	12
5 × 3.5	0.5	13.61
5 × 3.5	0.625	16.75
5 × 3.5	0.75	19.78
6 × 3.5	0.25	7.87
6 × 3.5	0.312	9.771
6 × 3.5	0.375	11.65
6 × 3.5	0.5	15.31
6 × 4	0.312	10.3
6 × 4	0.375	12.28

6 × 4	0.438	14.24
6 × 4	0.5	16.17
6 × 4	0.562	18.07
6 × 4	0.625	19.94
6 × 4	0.75	23.61
6 × 4	0.875	27.17
7 × 4	0.375	13.56
7 × 4	0.438	15.73
7 × 4	0.5	17.87
7 × 4	0.562	19.98
7 × 4	0.625	22.07
7 × 4	0.75	26.16
7 × 4	0.875	30.15
8 × 4	0.438	17.22
8 × 4	0.5	19.57
8 × 4	0.625	24.19
8 × 4	0.75	28.71
8 × 4	0.875	33.13
8 × 4	1	37.44
8 × 6	0.438	20.19
8 × 6	0.5	22.97
8 × 6	0.562	25.72
8 × 6	0.625	28.45
8 × 6	0.75	33.82
8 × 6	0.875	39.08
8 × 6	1	44.24

Hot Rolled Channels (C-Shapes)

Standard structural channels are typically referenced by designation (e.g., C10 × 20). The designation weight is lb/ft.

Channel Designation	Weight (lb/ft)
C3 × 4.1	4.1
C3 × 5.0	5
C3 × 6.0	6
C4 × 5.4	5.4
C4 × 6.25	6.25
C4 × 7.25	7.25
C5 × 6.7	6.7
C5 × 9.0	9
C6 × 8.2	8.2
C6 × 10.5	10.5
C6 × 13.0	13
C7 × 9.8	9.8
C7 × 12.25	12.25
C7 × 14.75	14.75
C8 × 11.5	11.5
C8 × 13.75	13.75
C8 × 18.75	18.75
C9 × 13.4	13.4
C9 × 15.0	15
C9 × 20.0	20
C10 × 15.3	15.3
C10 × 20.0	20
C10 × 25.0	25
C10 × 30.0	30
C12 × 20.7	20.7
C12 × 25.0	25
C12 × 30.0	30
C15 × 33.9	33.9
C15 × 40.0	40
C15 × 50.0	50