

STANDARD STEEL PIPE DATA – ENGLISH UNITS

Table A3.1.1-1; Bare Pipe – Water.

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Pipe + Water (lb/ft)
3/4	1.050	0.824	1.13	0.23	1.36
1	1.315	1.049	1.68	0.37	2.05
1-1/4	1.660	1.380	2.27	0.65	2.92
1-1/2	1.900	1.610	2.71	0.88	3.59
2	2.375	2.067	3.65	1.45	5.10
2-1/2	2.875	2.469	5.79	2.07	7.86
3	3.500	3.068	7.57	3.20	10.77
3-1/2	4.000	3.548	9.10	4.28	13.38
4	4.500	4.026	10.78	5.52	16.30
5	5.563	5.047	14.60	8.67	23.27
6	6.625	6.065	18.95	12.52	31.47
8	8.625	7.981	28.52	21.68	50.20
10	10.750	10.020	40.44	34.17	74.61
11	11.750	11.000	45.51	41.18	86.69
12	12.750	12.000	49.51	49.01	98.52
14	14.000	13.250	54.51	59.75	114.26
16	16.000	15.250	62.51	79.15	141.66
18	18.000	17.250	70.51	101.27	171.78
20	20.000	19.250	78.52	126.12	204.64
22	22.000	21.250	86.52	153.68	240.20
24	24.000	23.250	94.52	183.97	278.49
30	30.000	29.250	118.52	291.18	409.70
36	36.000	35.250	142.53	422.89	565.42
42	42.000	41.250	166.53	579.11	745.64
48	48.000	47.250	190.54	759.83	950.37

STANDARD STEEL PIPE DATA – ENGLISH UNITS

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SECTION – A3.1

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VIBRATION ISOLATION & SEISMIC CONTROL
 MANUFACTURERS ASSOCIATION

Table A3.1.1-2; Insulated Pipe – Water (85% Magnesia Insulation).

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Insulation Thickness (in)	Insulation Weight (lb/ft)	Pipe + Water + Insulation (lb/ft)
3/4	1.050	0.824	1.13	0.23	1.00	0.76	2.12
1	1.315	1.049	1.68	0.37	1.00	0.86	2.91
1-1/4	1.660	1.380	2.27	0.65	1.00	0.99	3.91
1-1/2	1.900	1.610	2.71	0.88	1.00	1.08	4.67
2	2.375	2.067	3.65	1.45	1.00	1.25	6.18
2-1/2	2.875	2.469	5.79	2.07	1.00	1.44	9.30
3	3.500	3.068	7.57	3.20	1.00	1.67	12.44
3-1/2	4.000	3.548	9.10	4.28	1.00	1.85	15.23
4	4.500	4.026	10.78	5.52	1.00	2.04	18.34
5	5.563	5.047	14.60	8.67	1.50	3.93	27.20
6	6.625	6.065	18.95	12.52	1.50	4.52	35.99
8	8.625	7.981	28.52	21.68	1.50	5.63	55.83
10	10.750	10.020	40.44	34.17	1.50	6.81	81.42
11	11.750	11.000	45.51	41.18	1.50	7.37	94.06
12	12.750	12.000	49.51	49.01	1.50	7.93	106.45
14	14.000	13.250	54.51	59.75	1.50	8.62	122.88
16	16.000	15.250	62.51	79.15	1.50	9.74	151.40
18	18.000	17.250	70.51	101.27	1.50	10.85	182.63
20	20.000	19.250	78.52	126.12	1.50	11.96	216.60
22	22.000	21.250	86.52	153.68	1.50	13.07	253.27
24	24.000	23.250	94.52	183.97	1.50	14.19	292.68
30	30.000	29.250	118.52	291.18	1.50	17.52	427.22
36	36.000	35.250	142.53	422.89	1.50	20.86	586.28
42	42.000	41.250	166.53	579.11	1.50	24.20	769.84
48	48.000	47.250	190.54	759.83	1.50	27.54	977.91

STANDARD STEEL PIPE DATA – ENGLISH UNITS

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Table A3.1.1-3; Insulated Pipe – Steam (85% Magnesia Insulation).

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Steam Weight (lb/ft)	Insulation Thickness (in)	Insulation Weight (lb/ft)	Pipe + Steam + Insulation (lb/ft)
3/4	1.050	0.824	1.13	0.0001	1.50	1.42	2.55
1	1.315	1.049	1.68	0.0002	1.50	1.57	3.25
1-1/4	1.660	1.380	2.27	0.0004	1.50	1.76	4.03
1-1/2	1.900	1.610	2.71	0.0005	1.50	1.89	4.60
2	2.375	2.067	3.65	0.0009	1.50	2.16	5.54
2-1/2	2.875	2.469	5.79	0.0012	1.50	2.43	8.22
3	3.500	3.068	7.57	0.0019	1.50	2.78	10.35
3-1/2	4.000	3.548	9.10	0.0026	1.50	3.06	12.16
4	4.500	4.026	10.78	0.0033	1.50	3.34	14.12
5	5.563	5.047	14.60	0.0052	2.00	5.61	20.22
6	6.625	6.065	18.95	0.0075	2.00	6.40	25.36
8	8.625	7.981	28.52	0.0129	2.00	7.88	36.41
10	10.750	10.020	40.44	0.0204	2.00	9.46	49.92
11	11.750	11.000	45.51	0.0246	2.00	10.20	55.73
12	12.750	12.000	49.51	0.0292	2.00	10.94	60.48
14	14.000	13.250	54.51	0.0356	2.00	11.87	66.42
16	16.000	15.250	62.51	0.0472	2.00	13.35	75.91
18	18.000	17.250	70.51	0.0604	2.00	14.84	85.41
20	20.000	19.250	78.52	0.0752	2.00	16.32	94.92
22	22.000	21.250	86.52	0.0916	2.00	17.80	104.41
24	24.000	23.250	94.52	0.1097	2.00	19.29	113.92
30	30.000	29.250	118.52	0.1736	2.00	23.74	142.43
36	36.000	35.250	142.53	0.2521	2.00	28.19	170.97
42	42.000	41.250	166.53	0.3452	2.00	32.64	199.52
48	48.000	47.250	190.54	0.4530	2.00	37.09	228.08

STANDARD STEEL PIPE DATA – ENGLISH UNITS

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STANDARD STEEL PIPE DATA – SI UNITS

Table A3.1.2-1; Bare Pipe – Water.

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Pipe + Water (N/m)
19	26.67	20.93	16.5	3.4	19.9
25	33.40	26.64	24.5	5.5	30.0
32	42.16	35.05	33.1	9.5	42.6
38	48.26	40.89	39.6	12.9	52.5
51	60.33	52.50	53.3	21.2	74.5
64	73.03	62.71	84.5	30.3	114.8
76	88.90	77.93	110.4	46.8	157.2
89	101.60	90.12	132.8	62.5	195.3
102	114.30	102.26	157.3	80.5	237.8
127	141.30	128.19	213.2	126.5	339.7
152	168.28	154.05	276.7	182.7	459.4
203	219.08	202.72	416.3	316.4	732.7
254	273.05	254.51	590.1	498.7	1,089
279	298.45	279.40	664.2	601.0	1,265
305	323.85	304.80	722.5	715.2	1,438
356	355.60	336.55	795.5	872.0	1,668
406	406.40	387.35	912.3	1,155	2,067
457	457.20	438.15	1,029	1,478	2,507
508	508.00	488.95	1,146	1,841	2,986
559	558.80	539.75	1,263	2,243	3,506
610	609.60	590.55	1,379	2,685	4,064
762	762.00	742.95	1,730	4,249	5,979
914	914.40	895.35	2,080	6,172	8,252
1,219	1219.20	1200.15	2,781	11,089	13,870

STANDARD STEEL PIPE DATA (SI UNITS)

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Table A3.1.2-2; Insulated Pipe – Water (85% Magnesia Insulation).

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Insulation Thickness (mm)	Insulation Weight (N/m)	Pipe + Water + Insulation (N/m)
19	26.67	20.93	16.5	3.4	25.4	11.1	31.0
25	33.40	26.64	24.5	5.5	25.4	12.5	42.5
32	42.16	35.05	33.1	9.5	25.4	14.4	57.0
38	48.26	40.89	39.6	12.9	25.4	15.7	68.2
51	60.33	52.50	53.3	21.2	25.4	18.3	90.2
64	73.03	62.71	84.5	30.3	25.4	21.0	135.8
76	88.90	77.93	110.4	46.8	25.4	24.4	181.6
89	101.60	90.12	132.8	62.5	25.4	27.1	222.4
102	114.30	102.26	157.3	80.5	25.4	29.8	267.6
127	141.30	128.19	213.2	126.5	38.1	57.3	397.0
152	168.28	154.05	276.7	182.7	38.1	66.0	525.4
203	219.08	202.72	416.3	316.4	38.1	82.2	814.9
254	273.05	254.51	590.1	498.7	38.1	99.5	1,188
279	298.45	279.40	664.2	601.0	38.1	107.6	1,373
305	323.85	304.80	722.5	715.2	38.1	115.7	1,553
356	355.60	336.55	795.5	872.0	38.1	125.8	1,793
406	406.40	387.35	912.3	1,155	38.1	142.1	2,209
457	457.20	438.15	1,029	1,478	38.1	158.3	2,665
508	508.00	488.95	1,146	1,841	38.1	174.6	3,162
559	558.80	539.75	1,263	2,243	38.1	190.8	3,697
610	609.60	590.55	1,379	2,685	38.1	207.0	4,271
762	762.00	742.95	1,730	4,249	38.1	255.7	6,235
914	914.40	895.35	2,080	6,172	38.1	304.5	8,557
1,219	1219.20	1200.15	2,781	11,089	38.1	401.9	14,272

STANDARD STEEL PIPE DATA (SI UNITS)

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Table A3.1.2-3; Insulated Pipe – Steam (85% Magnesia Insulation).

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Steam Weight (N/m)	Insulation Thickness (mm)	Insulation Weight (N/m)	Pipe + Steam + Insulation (N/m)
19	26.67	20.93	16.5	0.002	38.1	20.7	37.2
25	33.40	26.64	24.5	0.003	38.1	22.9	47.4
32	42.16	35.05	33.1	0.006	38.1	25.7	58.8
38	48.26	40.89	39.6	0.008	38.1	27.6	67.2
51	60.33	52.50	53.3	0.01	38.1	31.5	80.9
64	73.03	62.71	84.5	0.02	38.1	35.5	120.0
76	88.90	77.93	110.4	0.03	38.1	40.6	151.0
89	101.60	90.12	132.8	0.04	38.1	44.7	177.5
102	114.30	102.26	157.3	0.05	38.1	48.7	206.1
127	141.30	128.19	213.2	0.08	50.8	81.9	295.2
152	168.28	154.05	276.7	0.11	50.8	93.4	370.2
203	219.08	202.72	416.3	0.19	50.8	115.0	531.5
254	273.05	254.51	590.1	0.30	50.8	138.0	728.4
279	298.45	279.40	664.2	0.36	50.8	148.8	813.4
305	323.85	304.80	722.5	0.43	50.8	159.7	882.6
356	355.60	336.55	795.5	0.52	50.8	173.2	969.2
406	406.40	387.35	912.3	0.69	50.8	194.9	1,108
457	457.20	438.15	1,029	0.88	50.8	216.5	1,246
508	508.00	488.95	1,146	1.1	50.8	238.2	1,385
559	558.80	539.75	1,263	1.3	50.8	259.8	1,524
610	609.60	590.55	1,379	1.6	50.8	281.5	1,662
762	762.00	742.95	1,730	2.5	50.8	346.4	2,079
914	914.40	895.35	2,080	3.7	50.8	411.4	2,495
1,219	1219.20	1200.15	2,781	6.6	50.8	541.3	3,329

STANDARD STEEL PIPE DATA (SI UNITS)

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SECTION – A3.1.2

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PVC & CPVC Pipe Data – English Units

Table A4.2.1-1; Schedule 40 (Standard) Pipe – Water.

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Pipe + Water (lb/ft)
3/4	1.050	0.810	0.21	0.22	0.43
1	1.315	1.033	0.31	0.36	0.67
1-1/4	1.660	1.364	0.42	0.63	1.05
1-1/2	1.900	1.592	0.51	0.86	1.37
2	2.375	2.049	0.68	1.43	2.11
2-1/2	2.875	2.445	1.08	2.03	3.11
3	3.500	3.042	1.41	3.15	4.56
4	4.500	3.998	2.01	5.44	7.45
6	6.625	6.031	3.54	12.38	15.92
8	8.625	7.943	5.32	21.47	26.79
10	10.750	9.976	7.56	33.87	41.43

PVC & CPVC PIPE DATA – ENGLISH UNITS

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DOCUMENT:
A4.2.1



Table A4.2.1-2; Schedule 80 (Extra Heavy) Pipe – Water.

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Pipe + Water (lb/ft)
3/4	1.050	0.724	0.27	0.18	0.45
1	1.315	0.935	0.40	0.30	0.70
1-1/4	1.660	1.256	0.56	0.54	1.10
1-1/2	1.900	1.476	0.67	0.74	1.41
2	2.375	1.913	0.93	1.25	2.18
2-1/2	2.875	2.289	1.43	1.78	3.21
3	3.500	2.864	1.91	2.79	4.70
4	4.500	3.786	2.79	4.88	7.67
6	6.625	5.709	5.32	11.09	16.41
8	8.625	7.565	8.09	19.48	27.57
10	10.750	9.492	12.00	30.66	42.66
12	12.750	11.294	16.50	43.41	59.91

PVC & CPVC PIPE DATA – ENGLISH UNITS



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A4.2.1



Table A4.2.1-3; Light Wall Duct Pipe – Water.

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Pipe + Water (lb/ft)
6	6.625	6.251	2.27	13.30	15.57
8	8.625	8.251	2.97	23.17	26.14
10	10.750	10.376	3.72	36.64	40.36
12	12.750	12.376	4.43	52.13	56.56
14	14.000	13.626	4.87	63.19	68.06
16	16.000	15.626	5.57	83.10	88.67

PVC & CPVC PIPE DATA – ENGLISH UNITS

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A4.2.1



PVC & CPVC Pipe Data – SI Units

Table A4.2.2-1; Schedule 40 (Standard) Pipe – Water.

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Pipe + Water (N/m)
19	26.67	20.57	3.1	3.3	6.4
25	33.40	26.24	4.6	5.3	9.9
32	42.16	34.65	6.1	9.2	15.3
38	48.26	40.44	7.4	12.6	20.0
51	60.33	52.04	9.9	20.8	30.7
64	73.03	62.10	15.7	29.7	45.4
76	88.90	77.27	20.6	46.0	66.6
102	114.30	101.55	29.3	79.4	108.7
152	168.28	153.19	51.7	180.7	232.4
203	219.08	201.75	77.7	313.4	391.1
254	273.05	253.39	110.3	494.3	604.6

PVC & CPVC PIPE DATA – SI UNITS

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A4.2.2



Table A4.2.2-2; Schedule 80 (Extra Heavy) Pipe – Water.

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Pipe + Water (N/m)
19	26.67	18.39	4.0	2.6	6.6
25	33.40	23.75	5.9	4.3	10.2
32	42.16	31.90	8.1	7.8	15.9
38	48.26	37.49	9.8	10.8	20.6
51	60.33	48.59	13.6	18.2	31.8
64	73.03	58.14	20.8	26.0	46.8
76	88.90	72.75	27.8	40.7	68.5
102	114.30	96.16	40.7	71.2	111.9
152	168.28	145.01	77.7	161.9	239.6
203	219.08	192.15	118.1	284.2	402.3
254	273.05	241.10	175.1	447.5	622.6
305	323.85	286.87	240.7	633.6	874.3

PVC & CPVC PIPE DATA – SI UNITS

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A4.2.2

Table A4.2.2-3; Light Wall Duct Pipe – Water.

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Pipe + Water (N/m)
152	168.28	158.78	33.1	194.1	227.2
203	219.08	209.85	42.2	339.0	381.2
254	273.05	263.55	54.3	534.7	589.0
305	323.85	314.35	64.6	760.8	825.4
356	355.60	346.10	71.1	922.2	993.3
406	406.40	396.90	81.3	1,213	1,294

PVC & CPVC PIPE DATA – SI UNITS

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**PVC Fire Sprinkler Pipe Data – English Units
BlazeMaster® Brand Name Pipe by HARVEL®**

Table A4.3.1-1; BlazeMaster® CPVC Sprinkler Pipe – Water.

Pipe Size (in)	Pipe O.D. (in)	Pipe I.D. (in)	Pipe Weight Empty (lb/ft)	Water Weight (lb/ft)	Pipe + Water (lb/ft)
3/4	1.050	0.874	0.16	0.26	0.42
1	1.315	1.101	0.24	0.41	0.65
1-1/4	1.660	1.394	0.38	0.66	1.04
1-1/2	1.900	1.598	0.50	0.87	1.37
2	2.375	2.003	0.77	1.37	2.14
2-1/2	2.875	2.423	1.13	2.00	3.13
3	3.500	2.950	1.67	2.96	4.63

CPVP FIRE SPRINKLER PIPE DATA – ENGLISH UNITS

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**PVC Fire Sprinkler Pipe Data – SI Units
BlazeMaster® Brand Name Pipe by HARVEL®**

Table A4.3.2-1; BlazeMaster® CPVC Sprinkler Pipe – Water.

Pipe Size (mm)	Pipe O.D. (mm)	Pipe I.D. (mm)	Pipe Weight Empty (N/m)	Water Weight (N/m)	Pipe + Water (N/m)
19	26.67	22.20	2.3	3.8	6.1
25	33.40	27.97	3.6	6.0	9.6
32	42.16	35.41	5.6	9.7	15.3
38	48.26	40.59	7.3	12.7	20.0
51	60.33	50.88	11.2	19.9	31.1
64	73.03	61.54	16.5	29.2	45.7
76	88.90	74.93	24.4	43.2	67.6

CPVP FIRE SPRINKLER PIPE DATA – SI UNITS

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Copper Water Tubing Data – English Units

Table A4.4.1-1; Type K Copper Tubing – Water – ASTM B88.

Tube Size (in)	Tube O.D. (in)	Wall Thickness (in)	Tube Weight Empty (lb/ft)	Water Weight (lb/ft)	Tube + Water (lb/ft)
1/4	0.375	0.035	0.14	0.03	0.17
3/8	0.500	0.049	0.27	0.06	0.33
1/2	0.625	0.049	0.34	0.09	0.43
5/8	0.750	0.049	0.42	0.14	0.56
3/4	0.875	0.065	0.64	0.19	0.83
1	1.125	0.065	0.84	0.34	1.18
1-1/4	1.375	0.065	1.03	0.53	1.56
1-1/2	1.625	0.072	1.36	0.75	2.11
2	2.125	0.083	2.06	1.31	3.37
2-1/2	2.625	0.095	2.92	2.02	4.94
3	3.125	0.109	3.99	2.88	6.87
3-1/2	3.625	0.120	5.11	3.90	9.01
4	4.125	0.134	6.49	5.06	11.55
5	5.125	0.160	9.64	7.86	17.50
6	6.125	0.192	13.83	11.22	25.05

COPPER WATER TUBING DATA – ENGLISH UNITS

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Table A4.4.1-2; Type L Copper Tubing – Water – ASTM B88.

Tube Size (in)	Tube O.D. (in)	Wall Thickness (in)	Tube Weight Empty (lb/ft)	Water Weight (lb/ft)	Tube + Water (lb/ft)
1/4	0.375	0.030	0.13	0.03	0.16
3/8	0.500	0.035	0.20	0.06	0.26
1/2	0.625	0.040	0.28	0.10	0.38
5/8	0.750	0.042	0.36	0.15	0.51
3/4	0.875	0.045	0.45	0.21	0.66
1	1.125	0.050	0.65	0.36	1.01
1-1/4	1.375	0.055	0.88	0.54	1.42
1-1/2	1.625	0.060	1.14	0.77	1.91
2	2.125	0.070	1.75	1.34	3.09
2-1/2	2.625	0.080	2.47	2.07	4.54
3	3.125	0.090	3.32	2.95	6.27
3-1/2	3.625	0.100	4.28	3.99	8.27
4	4.125	0.114	5.55	5.17	10.72
5	5.125	0.125	7.59	8.09	15.68
6	6.125	0.140	10.17	11.63	21.80

COPPER WATER TUBING DATA – ENGLISH UNITS



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Table A4.4.1-3; Type M Copper Tubing – Water – ASTM B88.

Tube Size (in)	Tube O.D. (in)	Wall Thickness (in)	Tube Weight Empty (lb/ft)	Water Weight (lb/ft)	Tube + Water (lb/ft)
1/4	0.375	N/A	N/A	N/A	N/A
3/8	0.500	0.025	0.14	0.07	0.21
1/2	0.625	0.028	0.20	0.11	0.31
5/8	0.750	N/A	N/A	N/A	N/A
3/4	0.875	0.032	0.33	0.22	0.55
1	1.125	0.035	0.46	0.38	0.84
1-1/4	1.375	0.042	0.68	0.57	1.25
1-1/2	1.625	0.049	0.94	0.79	1.73
2	2.125	0.058	1.46	1.37	2.83
2-1/2	2.625	0.065	2.02	2.12	4.14
3	3.125	0.072	2.67	3.02	5.69
3-1/2	3.625	0.083	3.57	4.07	7.64
4	4.125	0.095	4.65	5.27	9.92
5	5.125	0.109	6.64	8.19	14.83
6	6.125	0.122	8.89	11.77	20.66

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Copper Water Tubing Data – SI Units

Table A4.4.2-1; Type A Copper Tubing – Water – ASTM B88.

Tube Size {O.D.} (mm)	Wall Thickness (mm)	Tube Weight Empty (N/m)	Water Weight (N/m)	Tube + Water (N/m)
10	0.9	2.2	0.5	2.7
12	1.2	3.6	0.7	4.3
15	1.2	4.5	1.2	5.7
18	1.2	5.5	1.9	7.4
22	1.6	9.0	2.7	11.7
28	1.6	11.6	4.7	16.3
35	1.6	14.7	7.8	22.5
42	1.8	19.9	11.4	31.3
54	2.1	29.9	19.1	49.0
67	2.4	42.6	29.8	72.4
79	2.8	58.6	41.5	100.1
105	3.4	94.9	74.2	169.1
130	4.0	138.4	114.6	253.0
156	4.8	199.3	165.0	364.3
206	6.8	372.0	285.0	657.0
257	8.5	580.0	443.4	657.0
308	10.3	842.0	635.9	1,477.9

COPPER WATER TUBING DATA – SI UNITS



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Table A4.4.2-2; Type B Copper Tubing – Water – ASTM B88.

Tube Size {O.D.} (mm)	Wall Thickness (mm)	Tube Weight Empty (N/m)	Water Weight (N/m)	Tube + Water (N/m)
10	0.8	2.0	0.5	2.5
12	0.9	2.7	0.8	3.5
15	1.0	3.8	1.3	5.1
18	1.0	4.7	2.0	6.7
22	1.1	6.3	3.0	9.3
28	1.2	8.8	5.0	13.8
35	1.4	12.9	8.0	20.9
42	1.5	16.7	11.7	28.4
54	1.7	24.4	19.7	44.1
67	2.0	35.7	30.6	66.3
79	2.3	48.4	42.6	91.0
105	2.8	78.6	76.1	154.7
130	3.1	108.0	118.0	226.0
156	3.5	146.6	170.9	317.5
206	5.0	276.0	295.8	571.8
257	6.3	433.7	459.9	893.6
308	7.1	586.6	664.5	1,251.1

COPPER WATER TUBING DATA – SI UNITS



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Table A4.4.2-3; Type C Copper Tubing – Water – ASTM B88.

Tube Size {O.D.} (mm)	Wall Thickness (mm)	Tube Weight Empty (N/m)	Water Weight (N/m)	Tube + Water (N/m)
10	0.6	1.5	0.6	2.1
12	0.6	1.9	0.9	2.8
15	0.7	2.7	1.4	4.1
18	0.7	3.3	2.1	5.4
22	0.8	4.7	3.2	7.9
28	0.9	6.7	5.3	12.0
35	1.1	10.2	8.3	18.5
42	1.2	13.4	12.1	25.5
54	1.5	21.6	20.0	41.6
67	1.6	28.7	31.3	60.0
79	1.8	38.2	43.8	82.0
105	2.4	67.6	77.3	144.9
130	2.7	94.4	119.5	213.9
156	3.1	130.2	172.8	303.0
206	4.3	238.2	300.0	538.2
257	5.4	373.1	466.7	839.8
308	6.4	530.0	670.9	1,200.9

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Electrical Conduit Data – English Units

Table A4.5.1-1; EMT Conduit – 40% Copper Fill.

Conduit Size (in)	Conduit O.D. (in)	Conduit I.D. (in)	Conduit Weight Empty (lb/ft)	Copper Weight (lb/ft)	Conduit + Copper (lb/ft)
1/2	0.706	0.622	0.30	0.47	0.77
3/4	0.922	0.824	0.46	0.82	1.28
1	1.163	1.049	0.67	1.34	2.01
1-1/4	1.510	1.380	1.00	2.31	3.31
1-1/2	1.740	1.610	1.16	3.15	4.31
2	2.197	2.067	1.48	5.19	6.67

Table A4.5.1-2; IMC Conduit – 40% Copper Fill.

Conduit Size (in)	Conduit O.D. (in)	Conduit I.D. (in)	Conduit Weight Empty (lb/ft)	Copper Weight (lb/ft)	Conduit + Copper (lb/ft)
1/2	0.815	0.675	0.56	0.55	1.11
3/4	1.029	0.879	0.76	0.94	1.70
1	1.290	1.120	1.09	1.52	2.61
1-1/4	1.638	1.468	1.41	2.62	4.03
1-1/2	1.883	1.703	1.72	3.52	5.24
2	2.360	2.170	2.30	5.72	8.02

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ELECTRICAL CONDUIT DATA – ENGLISH UNITS

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Table A4.5.1-3; Rigid Conduit – 40% Copper Fill.

Conduit Size (in)	Conduit O.D. (in)	Conduit I.D. (in)	Conduit Weight Empty (lb/ft)	Copper Weight (lb/ft)	Conduit + Copper (lb/ft)
1/2	0.840	0.632	0.82	0.48	1.30
3/4	1.050	0.836	1.08	0.85	1.93
1	1.315	1.063	1.60	1.37	2.97
1-1/4	1.660	1.394	2.17	2.36	4.53
1-1/2	1.900	1.624	2.59	3.20	5.79
2	2.375	2.083	3.47	5.27	8.74

Table A4.5.1-4; PVC Schedule 40 Rigid Conduit – 40% Copper Fill.

Conduit Size (in)	Conduit O.D. (in)	Conduit I.D. (in)	Conduit Weight Empty (lb/ft)	Copper Weight (lb/ft)	Conduit + Copper (lb/ft)
1/2	0.840	0.622	0.15	0.47	0.62
3/4	1.050	0.824	0.20	0.82	1.02
1	1.315	1.049	0.30	1.34	1.64
1-1/4	1.660	1.380	0.40	2.31	2.71
1-1/2	1.900	1.610	0.48	3.15	3.63
2	2.375	2.067	0.64	5.19	5.83

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Electrical Conduit Data – SI Units

Table A4.5.2-1; EMT Conduit – 40% Copper Fill.

Conduit size (mm)	Conduit O.D. (mm)	Conduit O.D. (mm)	Conduit Weight Empty (N/m)	Copper Weight (N/m)	Conduit + Copper (N/m)
13	17.93	15.80	4.3	6.9	11.2
19	23.42	20.93	6.7	12.0	18.7
25	29.54	26.64	9.8	19.5	29.3
32	38.35	35.05	14.6	33.7	48.3
38	44.20	40.89	17.0	45.9	62.9
51	55.80	52.50	21.6	75.7	97.3

Table A4.5.2-2; IMC Conduit – 40% Copper Fill.

Conduit Size (mm)	Conduit O.D. (mm)	Conduit I.D. (mm)	Conduit Weight Empty (N/m)	Copper Weight (N/m)	Conduit + Copper (N/m)
13	20.70	17.15	8.1	8.1	16.2
19	26.14	22.33	11.1	13.7	24.8
25	32.77	28.45	16.0	22.2	38.2
32	41.61	37.29	20.6	38.2	58.8
38	47.83	43.26	25.1	51.4	76.5
51	59.94	55.12	33.5	83.4	116.9

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Table A4.5.2-3; Rigid Conduit – 40% Copper Fill.

Conduit Size (mm)	Conduit O.D. (mm)	Conduit I.D. (mm)	Conduit Weight Empty (N/m)	Copper Weight (N/m)	Conduit + Copper (N/m)
13	21.34	16.05	11.9	7.1	19.0
19	26.67	21.23	15.7	12.4	28.1
25	33.40	27.00	23.3	20.0	43.3
32	42.16	35.41	31.6	34.4	66.0
38	48.26	41.25	37.9	46.7	84.6
51	60.33	52.91	50.7	76.9	127.6

Table A4.5.2-4; PVC Schedule 40 Rigid Conduit – 40% Copper Fill.

Conduit Size (mm)	Conduit O.D. (mm)	Conduit I.D. (mm)	Conduit Weight Empty (N/m)	Copper Weight (N/m)	Conduit + Copper (N/m)
13	21.34	15.80	2.2	6.9	9.1
19	26.67	20.93	2.9	12.0	14.9
25	33.40	26.64	4.3	19.5	23.8
32	42.16	35.05	5.9	33.7	39.6
38	48.26	40.89	7.0	45.9	52.9
51	60.33	52.50	9.4	75.7	85.1

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