

Copper Water Tube - Specifications

WALL THICKNESS — WEIGHT PER FOOT																
NOMINAL SIZE — INCHES	COPPER WATER TUBE						DWV COPPER DRAINAGE TUBE		Service Weight		ACTUAL O.D. — inches	“ACR”		Refrigeration		
	TYPE K		TYPE L		TYPE M		WALL THICKNESS	WGT. PER FOOT	WALL THICKNESS	WGT. PER FOOT		WALL THICKNESS	WGT. PER FOOT	WALL THICKNESS	WGT. PER FOOT	WGT. PER COIL
	WALL THICKNESS	WGT. PER FOOT	WALL THICKNESS	WGT. PER FOOT	WALL THICKNESS	WGT. PER FOOT										
											1/8	—	—	.030	.034	1.74
											3/16	—	—	.030	.058	2.88
											1/4	—	—	.030	.080	4.02
											5/16	—	—	.032	.109	5.45
1/4	.035	.145	.030	.126	.025	.106	—	—	—	—	3/8	.030	.126	.032	.134	6.70
3/8	.049	.269	.035	.198	.025	.145	—	—	—	—	1/2	.035	.198	.032	.182	9.10
1/2	.049	.344	.040	.285	.028	.204	—	—	.018	.133	5/8	.040	.285	.035	.251	12.55
											3/4	.042	.362	.035	.305	15.25
3/4	.065	.641	.045	.455	.032	.328	—	—	.021	.218	7/8	.045	.455	.045	.455	22.75
1	.065	.839	.050	.655	.035	.465	—	—	—	—	1-1/8	.050	.655	.050	.655	32.75
1-1/4	.065	1.04	.055	.884	.042	.682	.040	.650	—	—	1-3/8	.055	.884	.055	.884	44.20
1-1/2	.072	1.36	.060	1.14	.049	.940	.042	.809	—	—	1-5/8	.060	1.14	—	—	—
2	.083	2.06	.070	1.75	.058	1.46	.042	1.07	—	—	2-1/8	.070	1.75	—	—	—
2-1/2	.095	2.93	.080	2.48	.065	2.03	—	—	—	—	2-5/8	.080	2.48	—	—	—
3	.109	4.00	.090	3.33	.072	2.68	.045	1.69	—	—	3-1/8	.090	3.33	—	—	—
4	.134	6.51	.110	5.38	.095	4.66	.058	2.87	—	—	3-5/8	.100	4.29	—	—	—
5	.160	9.67	.125	7.61	.109	6.66	—	—	—	—	4-1/8	.110	5.38	—	—	—
6	.192	13.9	.140	10.2	.122	8.92	—	—	—	—	—	—	—	—	—	—

Types Recommended For Various Applications

It is the designer's responsibility to determine the type of copper tube to use for a particular application. Building or plumbing codes may state specifically what types may be used. Strength, bendability and other mechanical factors will frequently influence the choice. The manufacturers of copper tube have found that the various types have been used successfully in the following applications, and suggest these uses as a guide:

Underground Water Services: Type K soft temper for sizes up to and including 2", and hard or soft temper in straight lengths for larger sizes.

Water Distribution Piping: Type M or L for above ground installations and Type K for below ground.

Chilled Water Mains: Type M for sizes up to 1-1/4"; Type DWV for sizes 1-1/4" and larger.

Sanitary Drainage: Copper Drainage Tube DWV for above ground including stacks, vents, wastes, and soil lines, and roof drainage. Type L for below ground, including building drains and building sewers.

Heating: For radiant panel heating and snow melting systems, type L soft temper where the coils are formed in place or prefabricated; type M where straight lengths joined with fittings are used. For hot water heating and low pressure steam, type M. For condensate return lines, type L.

Fuel Oils: As required by local code.

Underground Gas Services: Type K or as required by local code or utility.

Air Conditioning and Refrigeration: As required by design.

Color Identification Of Copper Tube

Hard temper copper tube in straight lengths is marked according to specifications with a distinctive color marking which includes the designation of size and the name of trademark of the manufacturer. This is an addition to any incised marking that may be required by the specifications.

Soft temper tube is annealed as the final manufacturing operation and the high temperature would destroy the color marking if it had been applied. Therefore, soft temper tube cannot be color marked as with hard temper, but the distinctive colors are used for the printing on cartons, shipping tabs, and the like.

The specified colors are:

Green - Type K Copper Water Tube

Blue - Type L Copper Water Tube

Red - Type M Copper Water Tube

Yellow - Copper Drainage Tube (DWV)

Crimson - Refrigeration Tube (on cartons only)