

Tubular Wind Chime Dimensions

Copper, Type L (Blue), Nominal size = 1 1/2"

A=440 Hz, tube open at both ends

| OD inches = 1.625 | | ID inches = 1.505 | | | | Material = Copper | | | | | |
|--------------------------------|----------------|--|---------------------|-------------|-----------------|--------------------------------|----------------|-----------------|---------------------|-------------|-----------------|
| Wall = 0.06 inches | | * Tubing length calculated for fundamental frequency ** Hang Point is for fundamental frequency node | | | | | | | | | |
| Octave Note | A=440 Freq. Hz | Length * inches | Hang Point** inches | Length * mm | Hang Point** mm | Octave Note | A=440 Freq. Hz | Length * inches | Hang Point** inches | Length * mm | Hang Point** mm |
| C1 | 32.70 | 91 7/16 | 20 1/2 | 2,320.7 | 520.3 | C5 | 523.30 | 22 7/8 | 5 1/8 | 580.6 | 130.2 |
| C [#] /D ^b | 34.60 | 88 15/16 | 19 15/16 | 2,257.2 | 506.1 | C [#] /D ^b | 554.40 | 22 3/16 | 5 | 563.1 | 126.3 |
| D | 36.70 | 86 5/16 | 19 3/8 | 2,190.6 | 491.1 | D | 587.30 | 21 9/16 | 4 13/16 | 547.3 | 122.7 |
| D [#] /E ^b | 38.90 | 83 7/8 | 18 13/16 | 2,128.7 | 477.3 | D [#] /E ^b | 622.30 | 20 15/16 | 4 11/16 | 531.4 | 119.1 |
| E | 41.21 | 81 1/2 | 18 1/4 | 2,068.5 | 463.8 | E | 659.30 | 20 3/8 | 4 9/16 | 517.1 | 115.9 |
| F | 43.70 | 79 1/8 | 17 3/4 | 2,008.2 | 450.2 | F | 698.50 | 19 13/16 | 4 7/16 | 502.8 | 112.7 |
| F [#] /G ^b | 46.30 | 76 7/8 | 17 1/4 | 1,951.1 | 437.4 | F [#] /G ^b | 740.00 | 19 1/4 | 4 5/16 | 488.6 | 109.5 |
| G | 49.00 | 74 11/16 | 16 3/4 | 1,895.6 | 425.0 | G | 784.00 | 18 11/16 | 4 3/16 | 474.3 | 106.3 |
| G [#] /A ^b | 51.90 | 72 5/8 | 16 5/16 | 1,843.2 | 413.3 | G [#] /A ^b | 830.60 | 18 1/8 | 4 1/16 | 460.0 | 103.1 |
| A | 55.01 | 70 1/2 | 15 13/16 | 1,789.3 | 401.2 | A | 880.00 | 17 5/8 | 3 15/16 | 447.3 | 100.3 |
| A [#] /B ^b | 58.30 | 68 1/2 | 15 3/8 | 1,738.5 | 389.8 | A [#] /B ^b | 932.30 | 17 1/8 | 3 13/16 | 434.6 | 97.4 |
| B | 61.70 | 66 9/16 | 14 15/16 | 1,689.4 | 378.8 | B | 987.80 | 16 5/8 | 3 3/4 | 421.9 | 94.6 |
| C2 | 65.40 | 64 11/16 | 14 1/2 | 1,641.8 | 368.1 | C6 | 1,046.50 | 16 3/16 | 3 5/8 | 410.8 | 92.1 |
| C [#] /D ^b | 69.30 | 62 13/16 | 14 1/16 | 1,594.2 | 357.4 | C [#] /D ^b | 1,108.70 | 15 11/16 | 3 1/2 | 398.1 | 89.3 |
| D | 73.41 | 61 1/16 | 13 11/16 | 1,549.8 | 347.5 | D | 1,174.61 | 15 1/4 | 3 7/16 | 387.0 | 86.8 |
| D [#] /E ^b | 77.80 | 59 5/16 | 13 5/16 | 1,505.4 | 337.5 | D [#] /E ^b | 1,244.50 | 14 13/16 | 3 5/16 | 375.9 | 84.3 |
| E | 82.40 | 57 5/8 | 12 15/16 | 1,462.5 | 327.9 | E | 1,318.50 | 14 3/8 | 3 1/4 | 364.8 | 81.8 |
| F | 87.30 | 56 | 12 9/16 | 1,421.3 | 318.7 | F | 1,397.00 | 14 | 3 1/8 | 355.3 | 79.7 |
| F [#] /G ^b | 92.50 | 54 3/8 | 12 3/16 | 1,380.0 | 309.4 | F [#] /G ^b | 1,480.00 | 13 5/8 | 3 1/16 | 345.8 | 77.5 |
| G | 98.01 | 52 13/16 | 11 13/16 | 1,340.4 | 300.5 | G | 1,568.00 | 13 3/16 | 2 15/16 | 334.7 | 75.0 |
| G [#] /A ^b | 103.80 | 51 5/16 | 11 1/2 | 1,302.3 | 292.0 | G [#] /A ^b | 1,661.20 | 12 13/16 | 2 7/8 | 325.2 | 72.9 |
| A | 110.00 | 49 7/8 | 11 3/16 | 1,265.8 | 283.8 | A | 1,760.00 | 12 7/16 | 2 13/16 | 315.7 | 70.8 |
| A [#] /B ^b | 116.50 | 48 7/16 | 10 7/8 | 1,229.3 | 275.6 | A [#] /B ^b | 1,864.60 | 12 1/8 | 2 11/16 | 307.7 | 69.0 |
| B | 123.50 | 47 1/16 | 10 9/16 | 1,194.4 | 267.8 | B | 1,975.50 | 11 3/4 | 2 5/8 | 298.2 | 66.9 |
| C3 | 130.81 | 45 3/4 | 10 1/4 | 1,161.1 | 260.3 | C7 | 2,093.00 | 11 7/16 | 2 9/16 | 290.3 | 65.1 |
| C [#] /D ^b | 138.60 | 44 7/16 | 9 15/16 | 1,127.8 | 252.9 | C [#] /D ^b | 2,217.40 | 11 1/8 | 2 1/2 | 282.4 | 63.3 |
| D | 146.80 | 43 3/16 | 9 11/16 | 1,096.1 | 245.7 | D | 2,349.20 | 10 13/16 | 2 7/16 | 274.4 | 61.5 |
| D [#] /E ^b | 155.60 | 41 15/16 | 9 3/8 | 1,064.4 | 238.6 | D [#] /E ^b | 2,489.01 | 10 1/2 | 2 3/8 | 266.5 | 59.7 |
| E | 164.80 | 40 3/4 | 9 1/8 | 1,034.2 | 231.9 | E | 2,637.00 | 10 3/16 | 2 5/16 | 258.6 | 58.0 |
| F | 174.61 | 39 9/16 | 8 7/8 | 1,004.1 | 225.1 | F | 2,794.00 | 9 7/8 | 2 3/16 | 250.6 | 56.2 |
| F [#] /G ^b | 185.00 | 38 7/16 | 8 5/8 | 975.5 | 218.7 | F [#] /G ^b | 2,960.00 | 9 5/8 | 2 3/16 | 244.3 | 54.8 |
| G | 196.00 | 37 3/8 | 8 3/8 | 948.6 | 212.7 | G | 3,136.00 | 9 5/16 | 2 1/16 | 236.4 | 53.0 |
| G [#] /A ^b | 207.70 | 36 5/16 | 8 1/8 | 921.6 | 206.6 | G [#] /A ^b | 3,322.41 | 9 1/16 | 2 1/16 | 230.0 | 51.6 |
| A | 220.00 | 35 1/4 | 7 7/8 | 894.6 | 200.6 | A | 3,520.00 | 8 13/16 | 2 | 223.7 | 50.1 |
| A [#] /B ^b | 233.10 | 34 1/4 | 7 11/16 | 869.3 | 194.9 | A [#] /B ^b | 3,729.20 | 8 9/16 | 1 15/16 | 217.3 | 48.7 |
| B | 246.90 | 33 5/16 | 7 7/16 | 845.5 | 189.6 | B | 3,951.00 | 8 5/16 | 1 7/8 | 211.0 | 47.3 |
| C4 | 261.60 | 32 5/16 | 7 1/4 | 820.1 | 183.9 | C8 | 4,186.00 | 8 1/16 | 1 13/16 | 204.6 | 45.9 |
| C [#] /D ^b | 277.20 | 31 7/16 | 7 1/16 | 797.9 | 178.9 | C [#] /D ^b | 4,434.81 | 7 7/8 | 1 3/4 | 199.9 | 44.8 |
| D | 293.70 | 30 1/2 | 6 13/16 | 774.1 | 173.6 | D | 4,698.40 | 7 5/8 | 1 11/16 | 193.5 | 43.4 |
| D [#] /E ^b | 311.10 | 29 5/8 | 6 5/8 | 751.9 | 168.6 | D [#] /E ^b | 4,978.00 | 7 7/16 | 1 11/16 | 188.8 | 42.3 |
| E | 329.61 | 28 13/16 | 6 7/16 | 731.3 | 163.9 | E | 5,274.00 | 7 3/16 | 1 5/8 | 182.4 | 40.9 |
| F | 349.30 | 28 | 6 1/4 | 710.6 | 159.3 | F | 5,588.00 | 7 | 1 9/16 | 177.7 | 39.8 |
| F [#] /G ^b | 370.00 | 27 3/16 | 6 1/8 | 690.0 | 154.7 | F [#] /G ^b | 5,920.00 | 6 13/16 | 1 1/2 | 172.9 | 38.8 |
| G | 392.00 | 26 7/16 | 5 15/16 | 671.0 | 150.4 | G | 6,272.00 | 6 5/8 | 1 1/2 | 168.1 | 37.7 |
| G [#] /A ^b | 415.30 | 25 11/16 | 5 3/4 | 651.9 | 146.2 | G [#] /A ^b | 6,644.80 | 6 7/16 | 1 7/16 | 163.4 | 36.6 |
| A | 440.01 | 24 15/16 | 5 9/16 | 632.9 | 141.9 | A | 7,040.00 | 6 1/4 | 1 3/8 | 158.6 | 35.6 |
| A [#] /B ^b | 466.20 | 24 1/4 | 5 7/16 | 615.5 | 138.0 | A [#] /B ^b | 7,458.40 | 6 1/16 | 1 3/8 | 153.9 | 34.5 |
| B | 493.91 | 23 9/16 | 5 5/16 | 598.0 | 134.1 | B | 7,902.01 | 5 7/8 | 1 5/16 | 149.1 | 33.4 |
| | | | | | | C9 | 8,367.01 | 5 11/16 | 1 1/4 | 144.3 | 32.4 |

www.leeHITE.org/Chimes.htm

Caution, these values allow you to get close to the desired note (typically within 1%) but if you desire an exact note, cut slightly long and grind to the final frequency, but not required for wind chimes. Do not use these calculations for an orchestra or a musical setting unless you are certain they use A=440 Hz. An orchestra or symphony may brighten slightly and will typically tune for A=442, 43 or 44.