Precalculated Metal Chime Dimensions

- Copper Type M, Red
- Tubing sized in inches
- Length and hang-point listed for inches & mm
- Select chime size from the menu to the left of this page

Caution: if you are attempting to create exact notes for an orchestra setting, exact tuning is required and the use of an electronic tuning device or a good tuning ear is necessary. On the other hand, if you desire a good sounding set of chimes but do not need orchestra accuracy, then carefully cut the tube to the length suggested by this precalculated table, or the DIY calculator listed on the website.

Do not use these calculations for an orchestra or a musical setting unless you know for sure they tune to A4=440 Hz. An orchestra will typically tune for A4=442, A4=440 Hz. Most symphony grade instruments are shipped with A4=442 Hz.

Caution: While there are a host of apps for Chromatic Tuners available for an iPhone, iPad or Android, measuring the exact frequency and musical note of the chime is challenging at best. Non linearity of the human ear and the chime's non-harmonic overtones are two reasons.

It is difficult to provide an exact recommendation when to use the a chromatic tuner to measure a chime's note, but in general, I find most any note below C4 difficult to measure and on occasion below C5. Long, low frequencies tubes, measure incorrectly because of the "missing fundamental effect", and the preponderance of high amplitude overtones. Thick-walled tank chimes/bells can measure with surprising accuracy because its single pure tone above C4 is not cluttered with unimportant sidebands. More info about this topic is here: www.leehite.org/Chimes.htm#Tuning:

From:

www.leehite.org/Chimes.htm

Copper, Type M (Red), Nominal size = 1/2" ID Inches = 0.662		Tubular Wind Chime Dimensions													
Mart	Co	pper, Ty	pe M (Red),	Nominal	size = 1/2"				A=440 I	Hz, tube օլ	oen at both	n ends			
Note Proc. Class Point* Point* Point* Class Point*	OD i	inches =	0.625	II	o inches =	0.569	Ма	terial =	Сор	per					
Crime Freq Length Point Length Note Freq Length	Wall =	0.028	inches	* Tubin	g length calcula	ated for fund	damental	frequency	** Hang Point	is for fundam	ental freque	ncy node			
Note Hz		A=440		_		Hang		A=440		_		Hang			
CT			_		•				_						
C*D*D* 34.60 54 15/16 12.5/16 1.393.1 312.6 C*/D* 554.40 13.34 31.16 349.0 78.8 D**** 38.9 51 13/16 11.15/16 11.335.1 333.4 D*** 622.30 12 15/16 27.8 32.84 73.6 E 44.21 50 5/16 11 11/4 1.276.9 286.3 E 659.30 12 15/16 27.8 330.9 95.7 F*** 43.70 48 768 10 15/16 1.740.4 227.8 F 693.0 12 1/4 23.43 310.9 967.7 F***/C*** 48.30 47 1/2 10 5/8 1.205.6 220.3 740.00 11 7/8 211/16 301.4 667.7 G*** 48.30 47 1/2 10 1/16 1.170.7 222.5 G*** 740.00 11 7/8 211/16 301.4 667.7 301.4 31.16 91.2 1.070.9 22.5 G*** 780.00 11 17/16 301.4 30.9 66.7 20.0															
D S87.0 53 S/16 1115/16 1,315.0 294.8 D S87.30 13 S/16 3 337.9 75.8															
0"/E° 38.90 51 13/16 11 5/8 1,3150 224.8 0"/E° 622.30 12 15/16 2 7/8 328.4 73.6 E 41.21 50 5/16 11 11/4 1,276.9 286.3 E 659.30 12 19/16 213/16 318.8 71.5 F 43.70 48 778 10 15/16 1,206.6 270.3 FMG*** 10 14 2 3/4 310.9 99.7 FWG*** 48 90.0 46 1/8 10 5/16 1,170.7 262.5 G 740.00 11 7/8 2 11/16 301.4 65.8 G*A*** 519.0 44 7/8 10 1/16 1,138.9 255.3 G*A*** 380.00 10 7/8 2 7/16 29.14 1,105.6 24.79 A 880.00 10 7/8 2 7/16 276.0 61.9 A**** 55.01 43 9/16 9 1/2 1,073.9 20.8 A**/B*** 392.00 10 9/16 2 3/8 28.1 60.1 C***** 55.01 43 9/16 8 15/16 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
E															
F 43.70															
FMICO															
G 49.00 48 78 10 5/16 1,1707 225.5 G 784.00 11 9/16 2 9/16 293.5 65.8 67/A° 51.90 44 7/8 10 1/16 1,138.9 255.3 67/A° 830.60 11 3/16 2 1/2 283.9 63.7 4.5 5.5 1.5 4.															
G*/A* 51.90 44 7/8 10 1/16 1,138.9 255.3 G*/A* 80.00 11 3/16 2 1/2 283.9 63.7 A 55.01 43 9/16 9 3/4 1,105.6 247.9 A 80.00 10 7/8 2 7/16 61.9 A*/B** 58.30 42 5/16 9 1/2 1,073.9 240.8 A*/B** 932.30 10 9/16 2 3/8 286.1 60.1 C2 65.40 39 16/16 8 15/16 1,013.6 227.3 06 10/4 2 1/4 25.38 856.9 C*/D** 69.30 38 13/16 8 11/16 985.1 220.9 C*/D** 1,018.0 9 11/16 2 3/16 245.9 55.1 D 73.41 37 11/16 8 7/16 996.5 224.4 D 1,174.61 9 7/16 2 1/8 233.2 55.3 E 82.40 35 9/16 7 3/2 208.4 D*/E* 1,174.0 1 17/16 2 1/8 233.2 55.3															
A 65.01 43 9/16 9 3/4 1,105.6 247.9 A 800.00 10 7/8 2 7/16 276.0 61.9 A ⁷ /B ⁹ 58.30 42 5/16 9 1/2 1,073.9 240.8 A ⁷ /B ⁹ 392.30 10 9/16 2 3/8 268.1 60.1 58.3 C2 65.40 39 15/16 8 15/16 1,013.6 224.3 0.6 1,046.50 10 2 1/4 251.8 68.9 C ⁷ /D ⁹ 69.30 38 13/16 8 11/16 985.1 220.9 C ⁷ /D ⁹ 1,108.70 9 11/16 2 1/4 255.5 55.1 D 73.41 37 11/16 8 7/16 986.5 220.4 D 7/E ⁹ 1,244.50 9 3/16 2 1/16 233.2 55.1 D ⁷ F ⁸ 7.73.0 36 5/8 3 3/16 929.9 208.4 D ⁷ /E ⁹ 1,244.50 9 3/16 2 1/16 233.2 55.1 F 87.30 34 9/16 7 3/4 877.2 196.7 F 1,397.00 8 5/8															
A"/E" 68.30 42 5/16 9 1/2 1.073.9 240.8 A"/B" 932.30 10 9/16 2 3/8 268.1 60.1 B 61.70 41 1/8 9 1/4 1,043.8 234.0 B 987.80 110 1/4 2516 260.1 58.3 C"D" 69.30 38 13/16 8 15/16 99.51 220.9 C"D" 1,108.70 911/16 2 3/16 248.9 55.1 D" 73.41 37 11/16 8 7/16 996.5 220.9 C"D" 1,114.61 9 7/16 2 48.9 55.1 D"/E" 77.80 36 5/8 8 3/16 992.5 208.4 D"/E" 1,244.50 9 3/16 2 1/16 233.2 52.3 E 82.40 35 9/16 8 902.6 202.4 E 1,318.50 8 7/8 2 225.2 50.5 55.7 F#6/0" 92.50 33 9/16 7 1/2 851.8 191.0 F#/G" 1,480.00 8 3/8 1 7/8 2212.6 <td></td>															
B 61.70 41 1/8 9 1/4 1,043.8 224.0 B 987.80 10 1/4 2 56.8 56.9 C°/r0° 65.30 38 13/16 8 11/16 985.1 227.3 C D 21/10 2 1/4 25.8 56.9 D 73.41 37 11/16 8 7/16 985.1 220.9 C'/r0° 11/18.10 9 11/16 2 3/16 245.9 55.1 D°/reb 77.80 36 5/8 8 3/16 990.6 202.4 D'/reb 1,244.50 9 3/16 2 1/16 233.2 53.7 E 82.40 35 9/16 8 900.6 202.4 E 1,318.50 8 7/16 2 1/16 2 25.2 50.5 F 87.30 34 9/16 7 1/2 851.8 191.0 F 1,397.00 8 5/8 115/16 218.9 49.1 G 98.01 32 5/8 7 5/16 828.0 185.6 G 1,588.00 8 3/16 113/16										2 3/8					
CZ 65.40 39 15/16 8 15/16 1,013.6 227.3 CB 1,046.50 10 2 1/4 253.8 56.9 C"/D" 69.30 38 13/16 8 11/16 985.1 220.9 C"/D" 1,103.70 9 11/16 2 3/16 245.9 55.1 D 7/FP 77.80 36 5/8 8 3/16 929.5 208.4 D"/FP 1,244.50 9 3/16 2 1/16 233.2 52.3 E 82.40 35 9/16 8 90.26 202.4 E 1,318.50 8 7/8 2 225.2 50.5 F 87.30 34 9/16 7 3/4 877.2 196.7 F 1,397.00 8 5/8 115/16 218.9 49.1 F#/G" 92.50 33 9/16 7 1/2 851.8 191.0 F#/G" 1,480.00 8 3/8 1 15/16 218.9 49.1 F#/G" 103.80 31 11/16 7 1/8 802.0 185.6 G 1,568.00 8 3/16 1 13/16 201.5 45.2 A 110.00 30 1	В		41 1/8	9 1/4					10 1/4	2 5/16	260.1				
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	C2	65.40		8 15/16	1,013.6		C6	1,046.50	10	2 1/4	253.8	56.9			
D ^m /E ^b 77.80 36 5/8 8 3/16 929.5 208.4 D ^m /E ^b 1,244.50 9 3/16 2 1/16 233.2 52.3 E 82.40 35 9/16 8 902.6 202.4 E 1,318.50 8 7/8 2 225.2 50.5 F 87.30 34 9/16 7 3/4 877.2 196.7 F 1,337.00 8 5/8 1 15/16 218.9 49.1 F 93.01 32 5/8 7 5/16 828.0 185.6 G 1,568.00 8 3/16 1 13/4 201.5 42.1 G 98.01 13 2 5/8 7 5/16 828.0 185.6 G 1,568.00 8 3/16 1 13/4 201.5 42.0 A 110.00 30 13/16 6 15/16 782.0 175.3 A 1,760.00 7 11/16 1 3/4 201.5 42.2 B 123.50 29 1/16 6 1/2 737.6 166.4 8 1,795.50 7 1/2 1 11/16 19.4 42.7 </td <td>C"/DD</td> <td>69.30</td> <td>38 13/16</td> <td>8 11/16</td> <td>985.1</td> <td>220.9</td> <td>C#/Db</td> <td>1,108.70</td> <td>9 11/16</td> <td>2 3/16</td> <td>245.9</td> <td>55.1</td>	C"/DD	69.30	38 13/16	8 11/16	985.1	220.9	C#/Db	1,108.70	9 11/16	2 3/16	245.9	55.1			
E 82.40 35 9/16 8 902.6 202.4 E 1,318.50 8 7/8 2 225.2 50.5 F 87.30 34 9/16 7 3/4 877.2 196.7 F 1,397.00 8 5/8 1 15/16 218.9 49.1 F/H/G* 25.50 33 9/16 7 1/2 818.8 191.0 FH/G* 1,480.00 8 5/8 1 7/8 212.6 47.7 G 98.01 32 5/8 7 5/16 828.0 185.6 G 1,568.00 8 3/16 1 13/16 207.8 46.6 G*/A** 110.00 30 13/16 6 15/16 782.0 175.3 A 1,760.00 7 11/16 1 3/4 201.5 45.2 A*/B** 116.50 29 15/16 6 11/16 759.3 170.4 A*/B** 1,864.60 7 1/2 1 11/16 190.4 42.7 B 123.50 29 1/16 6 1/2 737.6 166.7 27.0 1,864.60 7 1/2 1 11/16 190.4	D	73.41	37 11/16	8 7/16	956.5	214.4	D	1,174.61	9 7/16	2 1/8	239.5	53.7			
FHIG ^D 92.50 33 9/16 7 3/4 877.2 196.7 F 1,397.00 8 5/8 1 15/16 218.9 49.1 FHIG ^D 92.50 33 9/16 7 1/2 851.8 191.0 FHIG ^D 1,480.00 8 3/8 1 7/8 212.6 47.7 G 98.01 32 5/8 7 5/16 828.0 185.6 G 1,586.00 8 3/16 113/16 207.8 46.6 G ^T /A ^D 103.80 3111/16 7 1/8 804.2 180.3 G ^T /A ^D 1,661.20 7 15/16 1 3/4 201.5 45.2 A 110.00 30 13/16 6 15/16 752.0 175.3 A 1,760.00 7 11/16 1 3/4 195.1 43.7 A ^T /B ^D 116.50 29 15/16 6 11/16 759.8 170.4 A 1/8 ^D 1,864.00 7 1/2 111/16 190.4 42.7 B 123.50 29 11/16 6 1/2 737.6 165.4 B 1,975.50 7 1/4 1 5/8 184.0 41.3 C 3 130.81 28 1/4 6 5/16 717.0 160.7 C 2 2,093.00 7 1/16 1 9/16 179.2 40.2 C 7/D ^D 138.60 27 7/16 6 1/8 696.4 156.1 C 7/D ^D 2,217.40 6 7/8 1 9/16 174.5 39.1 D 1.4 46.80 26 11/16 6 6 677.3 15/19 D 2,349.20 6 11/16 1 1/2 169.7 38.1 D 1/E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/16 602.8 135.1 FH/G ^D 2,960.00 5 15/16 1 3/8 155.5 34.9 FH/G ^D 185.00 23 3/4 5 5/16 602.8 135.1 FH/G ^D 2,960.00 5 15/16 1 5/16 145.9 32.7 G/A ^D 2277.70 22 7/16 5 569.5 127.7 G ^D /A ^D 3,32.4 1 5 5/8 1 1/4 142.8 30.2 A 220.00 2113/16 4 3/4 4/8 537.7 120.6 A/B ^D 3,32.20 5 5/16 1 3/16 134.8 30.2 B 246.90 20 9/16 4 5/8 521.9 117.0 D 8,395.00 5 1/8 1 1/8 138.0 30.9 A/B ^D 227.20 1 13/16 4 3/4 4/9.0 10.7 A/B ^D 2,499.00 5 1/8 1 1/16 134.8 30.2 A 220.00 2113/16 4 3/4 4/9.0 10.7 A/B ^D 3,299.00 5 5/16 1 3/16 134.8 30.2 A 220.00 2113/16 4 3/4 4/9.0 10.7 A/B ^D 3,299.00 5 5/16 1 1/16 134.8 30.2 A 220.00 2113/16 4 3/4 4/9.0 10.7 A/B ^D 3,299.00 4 5/16 1 1/16 123.7 27.7 D 293.70 18 7/8 4/14 4/9.0 10.7 A/B ^D 3,280.0 4 4/16 1 1/16 112.6 25.3 FH/G ^D 3,290.0 16 13/16 3 3/8 491.7 110.2 C 7/D ^D 4,434.81 4 7/8 1 1/16 112.6 25.3 FH/G ^D 3,290.0 16 13/16 3 3/8 491.7 110.2 C 7/D ^D 4,434.81 4 7/8 1 1/16 112.6 25.3 FH/G ^D 3,290.0 16 13/16 3 3/4 426.7 95.7 FH/G ^D 3,200.0 4 3/16 15/16 106.3 23.8 FH/G ^D 3,200.0 16 13/16 3 3/4 426.7 95.7 FH/G ^D 3,200.0 4 3/16 15/16 106.3 23.8 G/A ^D 3,200.0 16 13/16 3 3/4 3/14 4/40.0 92.8 G 6.272.00 4 4/16 1 1/16 106.3 23.8 G/A ^D 3,200	D#/Eb	77.80	36 5/8	8 3/16	929.5	208.4	D#/Eb	1,244.50	9 3/16	2 1/16	233.2	52.3			
F#/G ^D 92.50 33 9/16 7 1/2 851.8 191.0 F#/G ^D 1,480.00 8 3/8 1 7/8 212.6 47.7 G 98.01 32 5/8 7 5/16 828.0 185.6 G 1,568.00 8 3/16 1 13/16 207.8 46.6 G 3/8 10.00 30.30 31 11/16 7 1/8 804.2 180.3 G ^T /A ^D 1,661.20 7 15/16 1 3/4 201.5 45.2 45.2 A 110.00 30 13/16 6 15/16 782.0 175.3 A 1,760.00 7 11/16 1 3/4 195.1 43.7 A 7/8 116.50 29 15/16 6 11/16 759.8 170.4 A 7/8 1,661.20 7 11/16 1 3/4 195.1 43.7 A 7/8 116.50 29 15/16 6 11/16 759.8 170.4 A 7/8 1,664.60 7 1/2 1 11/16 190.4 42.7 B 123.50 29 11/16 6 1/2 737.6 165.4 B 1,975.50 7 1/4 1 5/8 184.0 41.3	E	82.40	35 9/16	8	902.6	202.4	E	1,318.50	8 7/8	2	225.2	50.5			
G 98.01 32 5/8 7 5/16 828.0 185.6 G 1,568.00 8 3/16 1 13/16 207.8 46.6 G*/A* 103.80 31 11/16 7 1/8 804.2 180.3 G*/A* 1,661.20 7 15/16 1 3/4 201.5 45.2 A 110.00 30 3/3/6 6 16/5/16 782.0 175.3 A 1,760.00 7 11/16 13/4 201.5 45.2 A*/B* 116.50 29 15/16 6 11/16 759.8 170.4 A*/B* 1,864.60 7 1/2 11/16 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 11/16 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11 19.11<		87.30	34 9/16	7 3/4	877.2	196.7		1,397.00	8 5/8	1 15/16	218.9	49.1			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	F#/G ^D	92.50	33 9/16	7 1/2	851.8	191.0	F#/G ^D	1,480.00	8 3/8	1 7/8	212.6	47.7			
A 110.00 30 13/16 6 15/16 782.0 175.3 A 1,760.00 7 11/16 1 3/4 195.1 43.7 A"/B" 116.50 29 15/16 6 11/16 759.8 170.4 A"/B" 1,864.60 7 1/2 111/16 190.4 42.7 B 123.50 29 1/16 6 1/2 737.6 165.4 B 1,975.50 7 1/4 1 5/8 184.0 41.3 C3 130.81 28 1/4 6 5/16 717.0 160.7 C7 2,093.00 7 1/16 1 9/16 179.2 40.2 C"/D" 138.60 27 7/16 6 1/8 696.4 156.1 C"/D" 2,217.40 6 7/8 1 9/16 174.5 39.1 D 146.80 26 11/16 6 6 677.3 151.9 D 2,349.20 6 11/16 1 1/2 169.7 38.1 D 1/E" 155.60 25 7/8 5 13/16 656.7 147.2 D"/E" 2,489.01 6 1/2 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 160.2 35.9 F 174.61 24 7/16 5 1/2 620.2 139.1 F 2,784.00 6 1/8 1 3/8 155.5 34.9 F 1/4G" 24 7/16 5 3/16 602.8 135.1 F#/G" 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 5/16 602.8 135.1 F#/G" 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 5/16 558.3 131.2 G 3,136.00 5 3/4 1 5/16 145.9 32.7 G"/A" 207.70 22 7/16 5 569.5 127.7 G"/A" 3,224.1 5 5/8 1 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 14/4 138.0 30.9 B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C 4/2 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 1 1/16 119.0 26.7 D"/C"/D" 277.20 19 3/8 4 3/8 491.7 110.2 C"/D" 4,488.40 4 11/16 1 11/2 6.2.5 3 F F F M/G" 370.00 16 13/16 3 3/4 456.4 C T F M/G" 370.00 16 13/16 3 3/4 426.7 95.7 F#/G" 370.00 16 13/16 1 11/6 119.0 26.7 D"/C"/D" 277.20 19 3/8 4 3/8 491.7 110.2 C"/D" 4,488.40 4 11/16 1 1/16 119.0 26.7 D"/C"/D" 277.20 19 3/8 4 3/8 491.7 110.2 C"/D" 4,488.40 4 11/16 1 1/16 119.0 26.7 D"/C"/D" 277.20 19 3/8 4 3/8 491.7 110.2 C"/D" 4,488.40 4 11/16 1 1/16 119.0 26.7 D"/C"/D" 370.00 16 13/16 3 3/4 426.7 95.7 F#/G" 5,588.00 4 5/16 15/16 100.5 24.5 F#/G" 370.00 16 13/16 3 3/4 426.7 95.7 F#/G" 5,580.00 4 5/16 15/16 100.5 22.5 F#/G" 370.00 16 13/16 3 3/4 426.7 95.7 F#/G" 5,580.00 4 5/16 15/16 100.5 22.5 F#/G" 466.20 14 15/16 3 3/8 37!1 850.0 A"/B" 4,648.00 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 37!1 850.0 A"/B" 370.01 3 5/8 13/16 99.0 20.6 00.6 00.6 00.6 00.6 00.6 00.6 00		98.01	32 5/8	7 5/16	828.0	185.6		1,568.00	8 3/16	1 13/16	207.8	46.6			
A"/B" 116.50 29 15/16 6 11/16 759.8 170.4 A"/B" 1,864.60 7 1/2 1 11/16 190.4 42.7 B 123.50 29 1/16 6 1/2 737.6 165.4 B 1,975.50 7 1/4 1 5/8 184.0 41.3 C"/D" 138.60 27 7/16 6 1/8 696.4 156.1 C"/D" 2,093.00 7 1/16 1 9/16 179.2 40.2 D 146.80 26 11/16 6 1/8 696.4 156.1 C"/D" 2,249.20 6 11/16 1 17/2 169.7 38.1 D"/E" 155.60 25 7/8 5 13/16 656.7 147.2 D"/E" 2,489.01 6 1/2 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 1/8 1 3/8 155.5 34.9 F#/G" 185.00 23 3/4 5 5/16 602.8 135.1 F#/G" 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 <td>G[#]/A^D</td> <td>103.80</td> <td>31 11/16</td> <td>7 1/8</td> <td>804.2</td> <td>180.3</td> <td>G[#]/A^D</td> <td>1,661.20</td> <td>7 15/16</td> <td>1 3/4</td> <td>201.5</td> <td>45.2</td>	G [#] /A ^D	103.80	31 11/16	7 1/8	804.2	180.3	G [#] /A ^D	1,661.20	7 15/16	1 3/4	201.5	45.2			
B 123.50 29 1/16 6 1/2 737.6 165.4 B 1,975.50 7 1/4 1 5/8 184.0 41.3 C3 130.81 28 1/4 6 5/16 717.0 160.7 C7 2,093.00 7 1/16 1 9/16 179.2 40.2 C*/D* 138.60 27 7/16 6 1/8 696.4 156.1 C*/D* 2,217.40 6 7/8 1 9/16 174.5 39.1 D*/E* 155.60 25 7/8 513/16 666.7 147.2 D*/E* 2,349.20 611/16 1 1/2 169.7 38.1 D*/E* 155.60 25 7/8 513/16 656.7 147.2 D*/E* 2,349.90 1 6 1/2 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 166.0 37.0 F 1/4 5 10.2 5 1/4 5 10.2 5 1/4 5 10.2 5 1/4 5 10.2 5 1/4 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F 1/4 61 24 7/16 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F 1/4 5 10.2 5 1/4 5 5/16 602.8 135.1 F 1/4 5 1/4		110.00	30 13/16	6 15/16	782.0	175.3		1,760.00	7 11/16	1 3/4	195.1	43.7			
C3 130.81 28 1/4 6 5/16 717.0 160.7 C7 2,093.00 7 1/16 1 9/16 179.2 40.2 C"/D" 138.60 27 7/16 6 1/8 696.4 156.1 C"/D" 2,217.40 6 7/8 1 9/16 174.5 39.1 D 146.80 26 11/16 6 677.3 151.9 D 2,349.20 6 11/16 1 1/2 169.7 38.1 D 155.60 25 7/8 5 13/16 656.7 147.2 D"/E" 2,489.01 6 1/2 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 160.2 35.9 F 174.61 24 7/16 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F#/G" 185.00 23 3/4 5 5/16 602.8 135.1 F#/G" 2,960.00 5 15/16 1 50.7 33.8	A [#] /B ^D	116.50	29 15/16	6 11/16	759.8	170.4	A [#] /B ^D	1,864.60	7 1/2	1 11/16	190.4	42.7			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	В	123.50	29 1/16	6 1/2	737.6	165.4	В	1,975.50	7 1/4		184.0	41.3			
D 146.80 26 11/16 6 677.3 151.9 D 2,349.20 6 11/16 1 1/2 169.7 38.1 D"/E♭ 155.60 25 7/8 5 13/16 656.7 147.2 D"/E♭ 2,489.01 6 1/2 1 7/16 165.0 37.0 E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 160.2 35.9 F 174.61 24 7/16 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F#/G° 185.00 23 3/4 5 5/16 602.8 135.1 F#/G° 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 5/16 585.3 131.2 G 3,136.00 5 3/4 1 5/16 142.8 32.0 A 200.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 142.8 32.0 <tr< td=""><td></td><td></td><td></td><td></td><td>717.0</td><td>160.7</td><td></td><td></td><td></td><td></td><td>179.2</td><td>40.2</td></tr<>					717.0	160.7					179.2	40.2			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C"/D"				696.4	156.1	C"/D	-			174.5	39.1			
E 164.80 25 3/16 5 5/8 639.3 143.3 E 2,637.00 6 5/16 1 7/16 160.2 35.9 F 174.61 24 7/16 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F#/G ⁰ 185.00 23 3/4 5 5/16 602.8 135.1 F#/G ⁰ 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 3/16 585.3 131.2 G 3,136.00 5 3/4 1 5/16 145.9 32.7 G*/A ⁰ 207.70 22 7/16 5 569.5 127.7 G*/A ⁰ 3,322.41 5 5/8 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 138.0 30.9 A*/B ⁰ 233.10 21 3/16 4 3/4 537.7 120.6 A*/B ⁰ 3,729.20 5 5/16 1 3/16 134.8 30.2 G 4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1/8 1 1/8 130.1 29.2 C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D*/F/E ^b 311.10 18 5/16 4 1/8 464.8 104.2 D*/F/E ^b 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 3 3/4 426.7 95.7 F#/G ⁰ 370.00 16 13/16 3 3/4 426.7 95.7 F#/G ⁰ 390.00 16 5/16 3 11/16 13.8 C 3 4,40.01 15 3/8 3 9/16 402.9 90.3 G*/A ⁰ 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 C 6.6 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6 C 6.6 C 6.6 C 6.0 C								-							
F 174.61 24 7/16 5 1/2 620.2 139.1 F 2,794.00 6 1/8 1 3/8 155.5 34.9 F#/G ⁰ 185.00 23 3/4 5 5/16 602.8 135.1 F#/G ⁰ 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 3/16 585.3 131.2 G 3,136.00 5 3/4 1 5/16 145.9 32.7 G ⁿ /A ⁰ 207.70 22 7/16 5 569.5 127.7 G ⁿ /A ⁰ 3,322.41 5 5/8 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 138.0 30.9 A ⁿ /B ⁰ 233.10 21 3/16 4 3/4 537.7 120.6 A ⁿ /B ⁰ 3,729.20 5 5/16 1 3/16 134.8 30.2 C 4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 130.1 29.2 C 4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1 1/8 130.1 29.2 C 5/7/D ⁰ 277.20 19 3/8 4 3/8 491.7 110.2 C ⁿ /D ⁰ 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D ⁿ /E ^b 311.10 18 5/16 4 1/8 464.8 104.2 D ⁿ /E ^b 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/G ⁰ 370.00 16 13/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 109.5 24.5 F#/G ⁰ 370.00 16 5/16 3 11/16 441.0 92.8 G 6,272.00 4 1/16 15/16 109.1 23.1 G ⁿ /A ⁰ 415.30 15 7/8 3 9/16 402.9 90.3 G ⁿ /A ⁰ 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 C 6.6 A 4.6 A 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6 C 6.6 C 6															
F#/G ⁰ 185.00 23 3/4 5 5/16 602.8 135.1 F#/G ⁰ 2,960.00 5 15/16 1 5/16 150.7 33.8 G 196.00 23 1/16 5 3/16 585.3 131.2 G 3,136.00 5 3/4 1 5/16 145.9 32.7 G"/A ⁰ 207.70 22 7/16 5 569.5 127.7 G"/A ⁰ 3,322.41 5 5/8 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 143.8 32.0 A"/B ⁰ 233.10 21 3/16 4 3/4 537.7 120.6 A"/B ⁰ 3,729.20 5 5/16 1 3/16 134.8 30.2 B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 126.9 28.5 C"/D ⁰															
G 196.00 23 1/16 5 3/16 585.3 131.2 G 3,136.00 5 3/4 1 5/16 145.9 32.7 G / A / D 207.70 22 7/16 5 569.5 127.7 G / A / D 3,322.41 5 5/8 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 138.0 30.9 A / B / D 233.10 21 3/16 4 3/4 537.7 120.6 A / B / D 3,729.20 5 5/16 1 3/16 134.8 30.2 B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C 4 261.60 20 4 1/2 507.6 113.8 C 8 4,186.00 5 1 1/8 126.9 28.5 C / D 277.20 19 3/8 4 3/8 491.7 110.2 C / D 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D / C / D / D															
G"/A" 207.70 22 7/16 5 569.5 127.7 G"/A" 3,322.41 5 5/8 1 1/4 142.8 32.0 A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 138.0 30.9 A"/B" 233.10 21 3/16 4 3/4 537.7 120.6 A"/B" 3,729.20 5 5/16 1 3/16 134.8 30.2 B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 126.9 28.5 C"/D" 277.20 19 3/8 4 3/8 491.7 110.2 C"/D" 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 1/16 1 1/16 119.0 26															
A 220.00 21 13/16 4 7/8 553.6 124.1 A 3,520.00 5 7/16 1 1/4 138.0 30.9 A*/B***B*****D***B***D***D***D***D***D***								-							
A*/BB 233.10 21 3/16 4 3/4 537.7 120.6 A*/BB 3,729.20 5 5/16 1 3/16 134.8 30.2 B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 126.9 28.5 C*/Db 277.20 19 3/8 4 3/8 491.7 110.2 C*/Db 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 119.0 26.7 D*/Eb 311.10 18 5/16 4 1/8 464.8 104.2 D*/Eb 4,978.00 4 9/16 1 1															
B 246.90 20 9/16 4 5/8 521.9 117.0 B 3,951.00 5 1/8 1 1/8 130.1 29.2 C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1 1/8 126.9 28.5 C*/D* 277.20 19 3/8 4 3/8 491.7 110.2 C*/D* 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D*/E* 311.10 18 5/16 4 1/8 464.8 104.2 D*/E* 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F 5/8/G* 370.00 16 13/16 3 3/4 426.7 95.7 F #/G* 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 311/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A* 415.30 15 7/8 3 9/16 402.9 90.3 G*/A* 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B* 466.20 14 15/16 3 3/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6								 							
C4 261.60 20 4 1/2 507.6 113.8 C8 4,186.00 5 1 1/8 126.9 28.5 C*/D* 277.20 19 3/8 4 3/8 491.7 110.2 C*/D* 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D*/E* 311.10 18 5/16 4 1/8 464.8 104.2 D*/E* 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/G* 370.00 16 13/16 3 3/4 426.7 95.7 F#/G* 5,920.00 4 3/16 15/16 106.3 23.8															
C#/Db 277.20 19 3/8 4 3/8 491.7 110.2 C#/Db 4,434.81 4 7/8 1 1/16 123.7 27.7 D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D#/Eb 311.10 18 5/16 4 1/8 464.8 104.2 D#/Eb 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/GD 370.00 16 13/16 3 3/4 426.7 95.7 F#/GD 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1															
D 293.70 18 7/8 4 1/4 479.0 107.4 D 4,698.40 4 11/16 1 1/16 119.0 26.7 D*/E^b 311.10 18 5/16 4 1/8 464.8 104.2 D*/E^b 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/G^D 370.00 16 13/16 3 3/4 426.7 95.7 F#/G^D 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A^D 415.30 15 7/8 3 9/16 402.9 90.3 G*/A^D 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B^D 466.20 14 15/16 3 3/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6															
D#/Eb 311.10 18 5/16 4 1/8 464.8 104.2 D#/Eb 4,978.00 4 9/16 1 115.8 26.0 E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/G° 370.00 16 13/16 3 3/4 426.7 95.7 F#/G° 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A° 415.30 15 7/8 3 9/16 402.9 90.3 G*/A° 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 <td></td>															
E 329.61 17 13/16 4 452.1 101.4 E 5,274.00 4 7/16 1 112.6 25.3 F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/GD 370.00 16 13/16 3 3/4 426.7 95.7 F#/GD 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/AD 415.30 15 7/8 3 9/16 402.9 90.3 G*/AD 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/BD 466.20 14 15/16 3 3/8 379.1 85.0 A*/BD 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>								-							
F 349.30 17 5/16 3 7/8 439.4 98.5 F 5,588.00 4 5/16 15/16 109.5 24.5 F#/G ^D 370.00 16 13/16 3 3/4 426.7 95.7 F#/G ^D 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A ^D 415.30 15 7/8 3 9/16 402.9 90.3 G*/A ^D 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B ^D 466.20 14 15/16 3 3/8 379.1 85.0 A*/B ^D 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0															
F#/G ^D 370.00 16 13/16 3 3/4 426.7 95.7 F#/G ^D 5,920.00 4 3/16 15/16 106.3 23.8 G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A ^D 415.30 15 7/8 3 9/16 402.9 90.3 G*/A ^D 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B ^D 466.20 14 15/16 3 3/8 379.1 85.0 A*/B ^D 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6															
G 392.00 16 5/16 3 11/16 414.0 92.8 G 6,272.00 4 1/16 15/16 103.1 23.1 G*/A° 415.30 15 7/8 3 9/16 402.9 90.3 G*/A° 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B° 466.20 14 15/16 3 3/8 379.1 85.0 A*/B° 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6								-							
G*/A° 415.30 15 7/8 3 9/16 402.9 90.3 G*/A° 6,644.80 3 15/16 7/8 99.9 22.4 A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B° 466.20 14 15/16 3 3/8 379.1 85.0 A*/B° 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6															
A 440.01 15 3/8 3 7/16 390.2 87.5 A 7,040.00 3 7/8 7/8 98.3 22.0 A*/B** 466.20 14 15/16 3 3/8 379.1 85.0 A*/B** 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6								-							
A*/B* 466.20 14 15/16 3 3/8 379.1 85.0 A*/B* 7,458.40 3 3/4 13/16 95.2 21.3 B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6								-							
B 493.91 14 9/16 3 1/4 369.6 82.9 B 7,902.01 3 5/8 13/16 92.0 20.6								-							
								-							
							C9			13/16					

	Tubular Wind Chime Dimensions													
Co	pper, <mark>Ty</mark>	pe M (Red),	Nominal	size = 3/4"				A=440 I	اz, tube oړ	pen at both	n ends			
OD i	nches =	0.875	II	o inches =	0.811	Ма	terial =	Сор	per					
Wall =	0.032	inches	* Tubin	g length calcula	ated for fund	damental t	frequency '	** Hang Point	is for fundam	nental frequer	ncy node			
Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm	Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm			
C1	32.70	67 1/8	15 1/16	1,703.6	382.0	C5	523.30	16 3/4	3 3/4	425.1	95.3			
C [#] /D ^b	34.60	65 1/4	14 5/8	1,656.0	371.3	C [#] /D ^b	554.40	16 5/16	3 11/16	414.0	92.8			
D	36.70	63 3/8	14 3/16	1,608.5	360.6	D	587.30	15 13/16	3 9/16	401.3	90.0			
D [#] /E ^b	38.90	61 9/16	13 13/16	1,562.5	350.3	D [#] /E ^b	622.30	15 3/8	3 7/16	390.2	87.5			
E	41.21	59 13/16	13 7/16	1,518.0	340.3	E	659.30	14 15/16	3 3/8	379.1	85.0			
F	43.70	58 1/16	13	1,473.6	330.4	F	698.50	14 1/2	3 1/4	368.0	82.5			
F#/G ^D	46.30	56 7/16	12 5/8	1,432.4	321.1	F#/G ^D	740.00	14 1/8	3 3/16	358.5	80.4			
G	49.00	54 13/16	12 5/16	1,391.1	311.9	G	784.00	13 11/16	3 1/16	347.4	77.9			
G [#] /A ^D	51.90	53 1/4	11 15/16	1,351.5	303.0	G [#] /A ^D	830.60	13 5/16	3	337.9	75.8			
A # D	55.01	51 3/4	11 5/8	1,313.4	294.5	A . # .= D	880.00	12 15/16	2 7/8	328.4	73.6			
A [#] /B ^D	58.30	50 1/4	11 1/4	1,275.3	285.9	A#/BD	932.30	12 9/16	2 13/16	318.8	71.5			
В	61.70	48 7/8	10 15/16	1,240.4	278.1	В	987.80	12 3/16	2 3/4	309.3	69.3			
C2 C [#] /D ^b	65.40	47 7/16	10 5/8	1,204.0	269.9	C6 C#/D ^D	1,046.50	11 7/8	2 11/16	301.4	67.6			
	69.30	46 1/8	10 5/16	1,170.7	262.5		1,108.70	11 1/2	2 9/16 2 1/2	291.9	65.4			
D [#] /E ^b	73.41	44 13/16	10 1/16 9 3/4	1,137.3	255.0	D [#] /E ^b	1,174.61	11 3/16	2 7/16	283.9	63.7			
E	77.80 82.40	43 1/2 42 5/16	9 1/2	1,104.0 1,073.9	247.5 240.8	E	1,244.50 1,318.50	10 7/8 10 9/16	2 3/8	276.0 268.1	61.9			
F	87.30	42 3/16	9 3/16	1,073.9	233.7	F	1,316.50	10 9/16	2 5/16	260.1	58.3			
F#/G ^D	92.50	39 15/16	8 15/16	1,042.2	233.7	F#/G ^D	1,480.00	10 1/4	2 1/4	253.8	56.9			
G G	98.01	38 3/4	8 11/16	983.5	220.5	G G	1,568.00	9 11/16	2 3/16	245.9	55.1			
G [#] /A ^D	103.80	37 11/16	8 7/16	956.5	214.4	G [#] /A ^D	1,661.20	9 7/16	2 1/8	239.5	53.7			
A	110.00	36 5/8	8 3/16	929.5	208.4	A	1,760.00	9 1/8	2 1/16	231.6	51.9			
A [#] /B ^D	116.50	35 9/16	8	902.6	202.4	A#/BD	1,864.60	8 7/8	2	225.2	50.5			
В	123.50	34 9/16	7 3/4	877.2	196.7	В	1,975.50	8 5/8	1 15/16	218.9	49.1			
C3	130.81	33 9/16	7 1/2	851.8	191.0	C7	2,093.00	8 3/8	1 7/8	212.6	47.7			
C [#] /D ^b	138.60	32 5/8	7 5/16	828.0	185.6	C [#] /D ^b	2,217.40	8 1/8	1 13/16	206.2	46.2			
D	146.80	31 11/16	7 1/8	804.2	180.3	D	2,349.20	7 15/16	1 3/4	201.5	45.2			
D#/Eb	155.60	30 3/4	6 7/8	780.4	175.0	D#/Eb	2,489.01	7 11/16	1 3/4	195.1	43.7			
Е	164.80	29 7/8	6 11/16	758.2	170.0	Е	2,637.00	7 1/2	1 11/16	190.4	42.7			
F	174.61	29 1/16	6 1/2	737.6	165.4	F	2,794.00	7 1/4	1 5/8	184.0	41.3			
F#/G ^D	185.00	28 1/4	6 5/16	717.0	160.7	F#/G ^D	2,960.00	7 1/16	1 9/16	179.2	40.2			
G	196.00	27 7/16	6 1/8	696.4	156.1	G	3,136.00	6 7/8	1 9/16	174.5	39.1			
G [#] /A ^D	207.70	26 5/8	6	675.7	151.5	G#/AD	3,322.41	6 11/16	1 1/2	169.7	38.1			
Α	220.00	25 7/8	5 13/16	656.7	147.2	А	3,520.00	6 1/2	1 7/16	165.0	37.0			
A [#] /B ^D	233.10	25 1/8	5 5/8	637.7	143.0	A [#] /B ^D	3,729.20	6 5/16	1 7/16	160.2	35.9			
В	246.90	24 7/16	5 1/2	620.2	139.1	В	3,951.00	6 1/8	1 3/8	155.5	34.9			
C4	261.60	23 3/4	5 5/16	602.8	135.1	C8	4,186.00	5 15/16	1 5/16	150.7	33.8			
C [#] /D ^b	277.20	23 1/16	5 3/16	585.3	131.2	C [#] /D ^b	4,434.81	5 3/4	1 5/16	145.9	32.7			
D # b	293.70	22 3/8	5	567.9	127.3	D	4,698.40	5 5/8	1 1/4	142.8	32.0			
D [#] /E ^b	311.10	21 3/4	4 7/8	552.0	123.8	D [#] /E ^b	4,978.00	5 7/16	1 1/4	138.0	30.9			
E	329.61	21 1/8	4 3/4	536.2	120.2	E	5,274.00	5 5/16	1 3/16	134.8	30.2			
F	349.30	20 9/16	4 5/8	521.9	117.0	F	5,588.00	5 1/8	1 1/8	130.1	29.2			
F#/G ^D	370.00	19 15/16	4 1/2	506.0	113.4	F#/G ^D	5,920.00	5	1 1/8	126.9	28.5			
G G##	392.00	19 3/8	4 3/8	491.7	110.2	G G#, A D	6,272.00	4 7/8	1 1/16	123.7	27.7			
G [#] /A ^D	415.30	18 13/16	4 3/16	477.5	107.0	G [#] /A ^D	6,644.80	4 11/16	1 1/16	119.0	26.7			
A #/DD	440.01	18 5/16	4 1/8	464.8	104.2	A#/DD	7,040.00	4 9/16	1	115.8	26.0			
A [#] /B ^D	466.20	17 3/4	2 7/9	450.5	101.0	A#/B°	7,458.40	4 7/16	15/16	112.6	25.3			
В	493.91	17 1/4	3 7/8	437.8	98.2	B	7,902.01	4 5/16	15/16 15/16	109.5	24.5			
	www.nor	<u>ne.fuse.net/e</u>	ngineering	_{a/} ∪nimes.hti	<u> </u>	C9	8,367.01	4 3/16	13/10	106.3	23.8			

	Tubular Wind Chime Dimensions													
Co	pper, <mark>Ty</mark>	pe M (Red),	Nominal	size = 1.0"				A=440 I	اz, tube o	oen at both	n ends			
OD i	nches =	1.125	10	o inches =	1.055	Ma	terial =	Сор	per					
Wall =	0.035	inches	* Tubin	g length calcula	ated for fund	damental	frequency	** Hang Point	is for fundam	iental frequei	ncy node			
	A=440		Hang		Hang		A=440		Hang		Hang			
Octave Note	Freq. Hz	Length * inches	Point** inches	Length *	Point**	Octave	Freq. Hz	Length * inches	Point** inches	Length *	Point**			
C1	32.70	76 5/16	17 1/8	mm 1,936.8	mm 434.2	Note C5	523.30	19 1/16	4 1/4	mm 483.8	mm 108.5			
C [#] /D ^b	34.60	74 3/16	16 5/8	1,882.9	422.1	C [#] /D ^b	554.40	18 9/16	4 3/16	471.1	105.6			
D	36.70	72 1/16	16 3/16	1,828.9	410.0	D	587.30	18	4 1/16	456.8	102.4			
D [#] /E ^b	38.90	70	15 11/16	1,776.6	398.3	D [#] /E ^b	622.30	17 1/2	3 15/16	444.2	99.6			
E	41.21	68	15 1/4	1,725.8	386.9	E	659.30	17	3 13/16	431.5	96.7			
F	43.70	66	14 13/16	1,675.1	375.6	F	698.50	16 1/2	3 11/16	418.8	93.9			
F#/G ^D	46.30	64 1/8	14 3/8	1,627.5	364.9	F#/G ^D	740.00	16 1/16	3 5/8	407.7	91.4			
G	49.00	62 3/8	14	1,583.1	354.9	G	784.00	15 9/16	3 1/2	395.0	88.6			
G [#] /A ^D	51.90	60 9/16	13 9/16	1,537.1	344.6	G#/AD	830.60	15 1/8	3 3/8	383.9	86.1			
А	55.01	58 13/16	13 3/16	1,492.7	334.7	А	880.00	14 11/16	3 5/16	372.8	83.6			
A [#] /B ^D	58.30	57 3/16	12 13/16	1,451.4	325.4	A#/BD	932.30	14 5/16	3 3/16	363.3	81.4			
В	61.70	55 9/16	12 7/16	1,410.2	316.2	В	987.80	13 7/8	3 1/8	352.1	79.0			
C2	65.40	53 15/16	12 1/16	1,368.9	306.9	C6	1,046.50	13 1/2	3	342.6	76.8			
C#/Db	69.30	52 7/16	11 3/4	1,330.9	298.4	C#/Db	1,108.70	13 1/8	2 15/16	333.1	74.7			
D	73.41	50 15/16	11 7/16	1,292.8	289.8	D	1,174.61	12 3/4	2 7/8	323.6	72.5			
D [#] /E ^b	77.80	49 1/2	11 1/8	1,256.3	281.7	D [#] /E ^b	1,244.50	12 3/8	2 3/4	314.1	70.4			
E	82.40	48 1/16	10 3/4	1,219.8	273.5	Е	1,318.50	12	2 11/16	304.6	68.3			
F	87.30	46 11/16	10 7/16	1,184.9	265.7	F	1,397.00	11 11/16	2 5/8	296.6	66.5			
F#/G ^D	92.50	45 3/8	10 3/16	1,151.6	258.2	F#/G ^D	1,480.00	11 3/8	2 9/16	288.7	64.7			
G	98.01	44 1/16	9 7/8	1,118.3	250.7	G	1,568.00	11	2 7/16	279.2	62.6			
G [#] /A ^D	103.80	42 13/16	9 5/8	1,086.6	243.6	G [#] /A ^D	1,661.20	10 11/16	2 3/8	271.2	60.8			
A	110.00	41 5/8	9 5/16	1,056.4	236.9	A	1,760.00	10 3/8	2 5/16	263.3	59.0			
A#/BD	116.50	40 7/16	9 1/16	1,026.3	230.1	A#/BD	1,864.60	10 1/8	2 1/4	257.0	57.6			
В	123.50	39 1/4	8 13/16	996.2	223.3	В	1,975.50	9 13/16	2 3/16	249.0	55.8			
C3	130.81	38 3/16	8 9/16	969.2	217.3	C7	2,093.00	9 9/16	2 1/8	242.7	54.4			
C [#] /D ^b	138.60	37 1/16	8 5/16	940.6	210.9	C [#] /D ^b	2,217.40	9 1/4	2 1/16	234.8	52.6			
D [#] /E ^b	146.80	36	8 1/16	913.7	204.8	D [#] /E ^b	2,349.20	9	2	228.4	51.2			
	155.60	35	7 7/8	888.3	199.2		2,489.01	8 3/4	1 15/16	222.1	49.8			
F	164.80	34	7 5/8 7 3/8	862.9	193.5	E	2,637.00	8 1/2	1 7/8 1 7/8	215.7	48.4			
F#/G ^D	174.61	33	7 3/16	837.5	187.8	F#/G ^D	2,794.00	8 1/4	1 13/16	209.4	46.9			
G G	185.00	32 1/16 31 3/16	7 3/10	813.7	182.4 177.5	G G	2,960.00 3,136.00	7 12/16	1 3/4	203.0 198.3	45.5 44.5			
G [#] /A ^D	196.00 207.70	30 5/16	6 13/16	791.5 769.3	177.5	G [#] /A ^D	3,322.41	7 13/16 7 9/16	1 11/16	196.3	43.0			
A	220.00	29 7/16	6 5/8	747.1	167.5	A	3,520.00	7 3/8	1 5/8	187.2	42.0			
A [#] /B ^D	233.10	28 9/16	6 3/8	724.9	162.5	A [#] /B ^D	3,729.20	7 1/8	1 5/8	180.8	40.5			
В	246.90	27 3/4	6 1/4	704.3	157.9	В	3,951.00	6 15/16	1 9/16	176.1	39.5			
C4	261.60	27	6 1/16	685.3	157.6	C8	4,186.00	6 3/4	1 1/2	171.3	38.4			
C [#] /D ^b	277.20	26 3/16	5 7/8	664.6	149.0	C [#] /D ^b	4,434.81	6 9/16	1 1/2	166.6	37.3			
D	293.70	25 7/16	5 11/16	645.6	144.7	D	4,698.40	6 3/8	1 7/16	161.8	36.3			
D [#] /E ^b	311.10	24 3/4	5 9/16	628.2	140.8	D [#] /E ^b	4,978.00	6 3/16	1 3/8	157.0	35.2			
E	329.61	24 1/16	5 3/8	610.7	136.9	E	5,274.00	6	1 3/8	152.3	34.1			
F	349.30	23 3/8	5 1/4	593.3	133.0	F	5,588.00	5 13/16	1 5/16	147.5	33.1			
F#/G ^D	370.00	22 11/16	5 1/16	575.8	129.1	F#/G ^D	5,920.00	5 11/16	1 1/4	144.3	32.4			
G	392.00	22 1/16	4 15/16	559.9	125.5	G	6,272.00	5 1/2	1 1/4	139.6	31.3			
G [#] /A ^D	415.30	21 7/16	4 13/16	544.1	122.0	G [#] /A ^D	6,644.80	5 3/8	1 3/16	136.4	30.6			
Α	440.01	20 13/16	4 11/16	528.2	118.4	Α	7,040.00	5 3/16	1 3/16	131.7	29.5			
A#/B	466.20	20 3/16	4 1/2	512.4	114.9	A#/BD	7,458.40	5 1/16	1 1/8	128.5	28.8			
В	493.91	19 5/8	4 3/8	498.1	111.7	В	7,902.01	4 15/16	1 1/8	125.3	28.1			
	www.hor	<u>ne.fuse.net/e</u>		Chimes.htm		C9	8,367.01	4 3/4	1 1/16	120.6	27.0			

	Tubular Wind Chime Dimensions												
Cop	oper, Typ	e M (Red),	Nominal s	size = 1 1/4'	'			A=440	Hz, tube o	pen at bot	h ends		
OD i	nches =	1.375	П	o inches =	1.291	Ma	terial =	Сор	per				
Wall =	0.042	inches	* Tubin	g length calcul	ated for fund	damental	frequency	** Hang Point	is for fundam	ental frequer	ncy node		
Octave Note	A=440 Freq. Hz	Length * inches	Hang Point** inches	Length *	Hang Point** mm	Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point**		
C1	32.70	84 3/8	18 15/16	mm 2,141.4	480.1	C5	523.30	21 1/8	4 3/4	536.2	mm 120.2		
C [#] /D ^b	34.60	82 1/16	18 3/8	2,082.7	467.0	C [#] /D ^b	554.40	20 1/2	4 5/8	520.3	116.6		
D	36.70	79 11/16	17 7/8	2,022.5	453.4	D	587.30	19 15/16	4 1/2	506.0	113.4		
D#/Eb	38.90	77 3/8	17 3/8	1,963.8	440.3	D#/Eb	622.30	19 3/8	4 3/8	491.7	110.2		
Е	41.21	75 3/16	16 7/8	1,908.3	427.8	Е	659.30	18 13/16	4 3/16	477.5	107.0		
F	43.70	73	16 3/8	1,852.7	415.4	F	698.50	18 1/4	4 1/16	463.2	103.8		
F#/G ^D	46.30	70 15/16	15 7/8	1,800.4	403.6	F#/G ^D	740.00	17 3/4	4	450.5	101.0		
G	49.00	68 15/16	15 7/16	1,749.6	392.3	G	784.00	17 1/4	3 7/8	437.8	98.2		
G#/AD	51.90	67	15	1,700.5	381.2	G#/AD	830.60	16 3/4	3 3/4	425.1	95.3		
Α	55.01	65 1/16	14 9/16	1,651.3	370.2	Α	880.00	16 1/4	3 5/8	412.4	92.5		
A#/BD	58.30	63 3/16	14 3/16	1,603.7	359.5	A#/BD	932.30	15 13/16	3 9/16	401.3	90.0		
В	61.70	61 7/16	13 3/4	1,559.3	349.6	В	987.80	15 3/8	3 7/16	390.2	87.5		
C2	65.40	59 11/16	13 3/8	1,514.9	339.6	C6	1,046.50	14 15/16	3 3/8	379.1	85.0		
C#/Db	69.30	58	13	1,472.0	330.0	C [#] /D ^b	1,108.70	14 1/2	3 1/4	368.0	82.5		
D # b	73.41	56 5/16	12 5/8	1,429.2	320.4	D	1,174.61	14 1/16	3 1/8	356.9	80.0		
D [#] /E ^b	77.80	54 11/16	12 1/4	1,388.0	311.2	D [#] /E ^b	1,244.50	13 11/16	3 1/16	347.4	77.9		
E	82.40	53 3/16	11 15/16	1,349.9	302.6	E	1,318.50	13 5/16	3	337.9	75.8		
F	87.30	51 5/8	11 9/16	1,310.2	293.8	F	1,397.00	12 15/16	2 7/8	328.4	73.6		
F#/G ^D	92.50	50 3/16	11 1/4	1,273.8	285.6	F#/G ^D	1,480.00	12 9/16	2 13/16	318.8	71.5		
G G [#] /A ^D	98.01	48 3/4	10 15/16	1,237.3	277.4	G G [#] /A ^D	1,568.00	12 3/16	2 3/4	309.3	69.3		
	103.80	47 3/8	10 5/8	1,202.4	269.6		1,661.20	11 13/16	2 5/8	299.8	67.2		
A "/B"	110.00 116.50	46 44 11/16	10 5/16 10	1,167.5 1,134.2	261.7 254.3	A A B D	1,760.00 1,864.60	11 1/2 11 3/16	2 9/16 2 1/2	291.9 283.9	65.4 63.7		
В	123.50	43 7/16	9 3/4	1,102.4	247.2	В	1,975.50	10 7/8	2 7/16	276.0	61.9		
C3	130.81	42 3/16	9 7/16	1,070.7	240.1	C7	2,093.00	10 7/6	2 3/8	268.1	60.1		
C [#] /D ^b	138.60	41	9 3/16	1,040.6	233.3	C [#] /D ^b	2,217.40	10 1/4	2 5/16	260.1	58.3		
D	146.80	39 13/16	8 15/16	1,010.4	226.5	D	2,349.20	9 15/16	2 1/4	252.2	56.5		
D#/Eb	155.60	38 11/16	8 11/16	981.9	220.1	D#/Eb	2,489.01	9 11/16	2 3/16	245.9	55.1		
E	164.80	37 5/8	8 7/16	954.9	214.1	E	2,637.00	9 3/8	2 1/8	237.9	53.3		
F	174.61	36 1/2	8 3/16	926.4	207.7	F	2,794.00	9 1/8	2 1/16	231.6	51.9		
F#/G ^D	185.00	35 1/2	7 15/16	901.0	202.0	F#/G ^D	2,960.00	8 7/8	2	225.2	50.5		
G	196.00	34 1/2	7 3/4	875.6	196.3	G	3,136.00	8 5/8	1 15/16	218.9	49.1		
G#/AD	207.70	33 1/2	7 1/2	850.2	190.6	G#/AD	3,322.41	8 3/8	1 7/8	212.6	47.7		
Α	220.00	32 9/16	7 5/16	826.4	185.3	Α	3,520.00	8 1/8	1 13/16	206.2	46.2		
A [#] /B ^D	233.10	31 5/8	7 1/16	802.6	180.0	A [#] /B ^D	3,729.20	7 7/8	1 3/4	199.9	44.8		
В	246.90	30 11/16	6 7/8	778.8	174.6	В	3,951.00	7 11/16	1 3/4	195.1	43.7		
C4	261.60	29 13/16	6 11/16	756.6	169.6	C8	4,186.00	7 7/16	1 11/16	188.8	42.3		
C [#] /D ^b	277.20	29	6 1/2	736.0	165.0	C [#] /D ^b	4,434.81	7 1/4	1 5/8	184.0	41.3		
D	293.70	28 3/16	6 5/16	715.4	160.4	D	4,698.40	7 1/16	1 9/16	179.2	40.2		
D [#] /E ^b	311.10	27 3/8	6 1/8	694.8	155.8	D [#] /E ^b	4,978.00	6 13/16	1 1/2	172.9	38.8		
E	329.61	26 9/16	5 15/16	674.2	151.1	E	5,274.00	6 5/8	1 1/2	168.1	37.7		
F	349.30	25 13/16	5 13/16	655.1	146.9	F	5,588.00	6 7/16	1 7/16	163.4	36.6		
F#/G ^D	370.00	25 1/16	5 5/8	636.1	142.6	F#/G ^D	5,920.00	6 1/4	1 3/8	158.6	35.6		
G D	392.00	24 3/8	5 7/16	618.6	138.7	G -#P	6,272.00	6 1/8	1 3/8	155.5	34.9		
G [#] /A ^D	415.30	23 11/16	5 5/16	601.2	134.8	G [#] /A ^D	6,644.80	5 15/16	1 5/16	150.7	33.8		
A#,(DD	440.01	23	5 3/16	583.7	130.9	A#,(DD	7,040.00	5 3/4	1 5/16	145.9	32.7		
A#/BD	466.20	22 3/8	5	567.9	127.3	A#/B	7,458.40	5 9/16	1 1/4	141.2	31.7		
ВВ	493.91	21 11/16	4 7/8	550.4	123.4	B	7,902.01	5 7/16	1 1/4 1 3/16	138.0	30.9		
		ne.fuse.net/e				C9	8,367.01	5 1/4		133.2	29.9		

	Tubular Wind Chime Dimensions													
Col	pper, Typ	e M (Red),	Nominal s	size = 1 1/2"				A=440	Hz, tube o	pen at bot	th ends			
OD i	inches =	1.625	II	o inches =	1.527	Ма	terial =	Сор	per					
Wall =	0.049	inches	* Tubin	g length calcula	ated for fund	damental	frequency	** Hang Point	is for fundam	ental frequer	ncy node			
Octave	A=440 Freq.	Length *	Hang Point**	Length *	Hang Point**	Octave	A=440 Freq.	Length *	Hang Point**	Length *	Hang Point**			
Note	Hz	inches	inches	mm	mm	Note	Hz	inches	inches	mm	mm			
C1	32.70	91 3/4	20 9/16	2,328.6	522.1	C5	523.30	22 15/16	5 1/8	582.2	130.5			
C [#] /D ^b	34.60	89 3/16	20	2,263.6	507.5	C [#] /D ^b	554.40	22 5/16	5	566.3	127.0			
D"/E ^b	36.70	86 5/8	19 7/16	2,198.5	492.9	D [#] /E ^b	587.30	21 5/8	4 7/8	548.8	123.1			
	38.90	84 1/8	18 7/8 18 5/16	2,135.1	478.7		622.30	21 1/16	4 3/4 4 9/16	534.6	119.8			
E F	41.21 43.70	81 3/4 79 3/8	17 13/16	2,074.8 2,014.5	465.2 451.7	E F	659.30 698.50	20 7/16 19 7/8	4 7/16	518.7 504.4	116.3 113.1			
F#/G ^D	46.30	79 3/6	17 15/16	1,957.4	431.7	F#/G ^D	740.00	19 7/8	4 5/16	490.2	109.9			
G G	49.00	74 15/16	16 13/16	1,901.9	426.4	G G	784.00	18 3/4	4 3/16	475.9	109.9			
G [#] /A ^D	51.90	74 13/16	16 5/16	1,848.0	414.3	G [#] /A ^D	830.60	18 3/16	4 1/16	461.6	103.5			
A	55.01	70 3/4	15 7/8	1,795.6	402.6	A	880.00	17 11/16	3 15/16	448.9	100.6			
A [#] /B ^D	58.30	68 3/4	15 7/16	1,744.9	391.2	A#/BD	932.30	17 17/16	3 7/8	436.2	97.8			
В	61.70	66 13/16	15	1,695.7	380.2	В	987.80	16 11/16	3 3/4	423.5	95.0			
C2	65.40	64 7/8	14 9/16	1,646.5	369.2	C6	1,046.50	16 1/4	3 5/8	412.4	92.5			
C [#] /D ^D	69.30	63 1/16	14 1/8	1,600.5	358.8	C [#] /D ^b	1,108.70	15 3/4	3 1/2	399.7	89.6			
D	73.41	61 1/4	13 3/4	1,554.5	348.5	D	1,174.61	15 5/16	3 7/16	388.6	87.1			
D [#] /E ^b	77.80	59 1/2	13 5/16	1,510.1	338.6	D [#] /E ^b	1,244.50	14 7/8	3 5/16	377.5	84.6			
E	82.40	57 13/16	12 15/16	1,467.3	329.0	E	1,318.50	14 7/16	3 1/4	366.4	82.2			
F	87.30	56 3/16	12 5/8	1,426.0	319.7	F	1,397.00	14 1/16	3 1/8	356.9	80.0			
F#/G ^D	92.50	54 9/16	12 1/4	1,384.8	310.5	F#/G ^D	1,480.00	13 5/8	3 1/16	345.8	77.5			
G	98.01	53	11 7/8	1,345.1	301.6	G	1,568.00	13 1/4	3	336.3	75.4			
G [#] /A ^D	103.80	51 1/2	11 9/16	1,307.1	293.0	G [#] /A ^D	1,661.20	12 7/8	2 7/8	326.8	73.3			
А	110.00	50 1/16	11 1/4	1,270.6	284.9	А	1,760.00	12 1/2	2 13/16	317.3	71.1			
A#/BD	116.50	48 5/8	10 7/8	1,234.1	276.7	A#/BD	1,864.60	12 1/8	2 11/16	307.7	69.0			
В	123.50	47 1/4	10 9/16	1,199.2	268.9	В	1,975.50	11 13/16	2 5/8	299.8	67.2			
C3	130.81	45 7/8	10 5/16	1,164.3	261.0	C7	2,093.00	11 1/2	2 9/16	291.9	65.4			
C#/Db	138.60	44 9/16	10	1,131.0	253.6	C#/Db	2,217.40	11 1/8	2 1/2	282.4	63.3			
D	146.80	43 5/16	9 11/16	1,099.3	246.5	D	2,349.20	10 13/16	2 7/16	274.4	61.5			
D#/Eb	155.60	42 1/16	9 7/16	1,067.5	239.3	D [#] /E ^b	2,489.01	10 1/2	2 3/8	266.5	59.7			
E	164.80	40 7/8	9 3/16	1,037.4	232.6	E	2,637.00	10 1/4	2 5/16	260.1	58.3			
F	174.61	39 11/16	8 7/8	1,007.3	225.8	F	2,794.00	9 15/16	2 1/4	252.2	56.5			
F#/G ^D	185.00	38 9/16	8 5/8	978.7	219.4	F#/G ^D	2,960.00	9 5/8	2 3/16	244.3	54.8			
G	196.00	37 1/2	8 7/16	951.8	213.4	G	3,136.00	9 3/8	2 1/8	237.9	53.3			
G#/AD	207.70	36 7/16	8 3/16	924.8	207.3	G [#] /A ^D	3,322.41	9 1/8	2 1/16	231.6	51.9			
A # D	220.00	35 3/8	7 15/16	897.8	201.3	A	3,520.00	8 7/8	2	225.2	50.5			
A [#] /B ^D	233.10	34 3/8	7 11/16	872.4	195.6	A [#] /B ^D	3,729.20	8 9/16	1 15/16	217.3	48.7			
В	246.90	33 3/8	7 1/2	847.1	189.9	В	3,951.00	8 3/8	1 7/8	212.6	47.7			
C4	261.60	32 7/16	7 1/4	823.3	184.6	C8	4,186.00	8 1/8	1 13/16	206.2	46.2			
C [#] /D ^b	277.20	31 1/2	7 1/16	799.5	179.2	C [#] /D ^b	4,434.81	7 7/8	1 3/4	199.9	44.8			
D	293.70	30 5/8	6 7/8	777.3	174.3	D # (= h	4,698.40	7 5/8	1 11/16	193.5	43.4			
D [#] /E ^b	311.10	29 3/4	6 11/16	755.1	169.3	D [#] /E ^b	4,978.00	7 7/16	1 11/16	188.8	42.3			
E	329.61	28 7/8	6 1/2	732.8	164.3	F.	5,274.00	7 1/4	1 5/8	184.0	41.3			
F _{#/O} D	349.30	28 1/16	6 5/16	712.2	159.7	F _{#/C} D	5,588.00	7	1 9/16	177.7	39.8			
F#/G ^D	370.00	27 1/4	6 1/8	691.6	155.1	F#/G ^D	5,920.00	6 13/16	1 1/2	172.9	38.8			
G G [#] /A ^D	392.00	26 1/2	5 15/16	672.6	150.8	G "/A"	6,272.00	6 5/8	1 1/2	168.1	37.7			
	415.30	25 3/4	5 3/4	653.5	146.5		6,644.80	6 7/16	1 7/16	163.4	36.6			
A "/B"	440.01	25	5 5/8	634.5	142.3	A [#] /B ^D	7,040.00	6 1/4	1 3/8	158.6	35.6			
В	466.20 493.91	24 5/16 23 5/8	5 7/16 5 5/16	617.1	138.3	В	7,458.40 7,902.01	6 1/16 5 7/8	1 3/8 1 5/16	153.9	34.5			
-	l	ne.fuse.net/e		599.6	134.4	C9	8,367.01	5 7/8	1 5/16	149.1 145.9	33.4 32.7			
	<u>vv vv vv .1101</u>	os ellow you to d				_	· ·							

			7	Γubular W	/ind Ch	ime Di	imensio	ons			
Сорр	er, Type	M (Red)		size = 2.0"				A=440 Hz,	tube open	at both en	ds
OD i	inches =	2.125		o inches =			terial =	Сор	•		
Wall =	0.058	inches		g length calcul	ated for fund	damental f	frequency '	** Hang Point	is for fundam	ental frequer	ncy node
Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm	Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm
C1	32.70	105 1/16	23 9/16	2,666.5	597.8	C5	523.30	26 1/4	5 7/8	666.2	149.4
C [#] /D ^b	34.60	102 3/16	22 15/16	2,593.5	581.5	C [#] /D ^b	554.40	25 1/2	5 11/16	647.2	145.1
D	36.70	99 3/16	22 1/4	2,517.4	564.4	D	587.30	24 13/16	5 9/16	629.7	141.2
D#/Eb	38.90	96 3/8	21 5/8	2,446.0	548.4	D [#] /E ^b	622.30	24 1/16	5 3/8	610.7	136.9
E	41.21	93 5/8	21	2,376.2	532.7	E	659.30	23 3/8	5 1/4	593.3	133.0
F	43.70	90 7/8	20 3/8	2,306.4	517.1	F	698.50	22 3/4	5 1/8	577.4	129.5
F#/G ^D	46.30	88 5/16	19 13/16	2,241.4	502.5	F#/G ^D	740.00	22 1/16	4 15/16	559.9	125.5
G	49.00	85 7/8	19 1/4	2,179.5	488.6	G	784.00	21 7/16	4 13/16	544.1	122.0
G#/AD	51.90	83 7/16	18 11/16	2,117.6	474.8	G#/AD	830.60	20 7/8	4 11/16	529.8	118.8
A	55.01	81	18 3/16	2,055.8	460.9	A	880.00	20 1/4	4 9/16	513.9	115.2
A [#] /B ^D	58.30	78 11/16	17 5/8	1,997.1	447.7	A [#] /B ^D	932.30	19 11/16	4 7/16	499.7	112.0
В	61.70	76 1/2	17 1/8	1,941.6	435.3	В	987.80	19 1/8	4 5/16	485.4	108.8
C2	65.40	74 5/16	16 11/16	1,886.1	422.9	C6	1,046.50	18 9/16	4 3/16	471.1	105.6
C#/Db	69.30	72 3/16	16 3/16	1,832.1	410.8	C [#] /D ^b	1,108.70	18 1/16	4 1/16	458.4	102.8
D # b	73.41	70 1/8	15 3/4	1,779.8	399.0	D # b	1,174.61	17 9/16	3 15/16	445.7	99.9
D [#] /E ^b	77.80	68 1/8	15 1/4	1,729.0	387.6	D [#] /E ^b	1,244.50	17 1/16	3 13/16	433.0	97.1
E	82.40	66 3/16	14 13/16	1,679.8	376.6	E	1,318.50	16 9/16	3 11/16	420.4	94.2
F	87.30	64 5/16	14 7/16	1,632.3	366.0	F	1,397.00	16 1/16	3 5/8	407.7	91.4
F#/G ^D	92.50	62 1/2	14	1,586.3	355.6	F#/G ^D	1,480.00	15 5/8	3 1/2	396.6	88.9
G	98.01	60 11/16	13 5/8	1,540.2	345.3	G - #D	1,568.00	15 3/16	3 3/8	385.5	86.4
G [#] /A ^D	103.80	59	13 1/4	1,497.4	335.7	G [#] /A ^D	1,661.20	14 3/4	3 5/16	374.4	83.9
A "/B"	110.00	57 5/16	12 7/8	1,454.6	326.1	A # /DD	1,760.00	14 5/16	3 3/16	363.3	81.4
	116.50	55 11/16	12 1/2	1,413.3	316.9	A#/BD	1,864.60	13 15/16	3 1/8	353.7	79.3
В	123.50	54 1/16	12 1/8	1,372.1	307.6	B	1,975.50	13 1/2	3	342.6	76.8
C3 C [#] /D ^b	130.81	52 9/16	11 13/16	1,334.0	299.1	C7 C [#] /D ^b	2,093.00	13 1/8	2 15/16	333.1	74.7
	138.60	51 1/16	11 7/16 11 1/8	1,296.0	290.6		2,217.40	12 3/4	2 7/8 2 3/4	323.6	72.5
D [#] /E ^b	146.80	49 5/8	10 13/16	1,259.5	282.4	D [#] /E ^b	2,349.20	12 3/8	2 11/16	314.1	70.4
E	155.60 164.80	48 3/16	10 13/10	1,223.0	274.2 266.4	E E	2,489.01	12 1/16 11 11/16	2 5/8	306.1 296.6	68.6 66.5
F	174.61	46 13/16 45 1/2	10 1/2	1,188.1	258.9	F	-	11 3/8	2 9/16		64.7
F#/G ^D	185.00	45 1/2	9 15/16	1,154.8 1,121.5	251.4	F#/G ^D	2,794.00	11 1/16	2 1/2	288.7 280.8	62.9
G G	196.00	42 15/16	9 5/8	1,089.8	244.3	G G	3,136.00	10 3/4	2 7/16	272.8	61.2
G [#] /A ^D	207.70	41 11/16	9 3/8	1,058.0	237.2	G [#] /A ^D	3,322.41	10 3/4	2 5/16	264.9	59.4
A	220.00	40 1/2	9 1/16	1,038.0	230.5	A	3,520.00	10 1/10	2 1/4	257.0	57.6
A [#] /B ^D	233.10	39 3/8	8 13/16	999.3	224.1	A [#] /B ^D	3,729.20	9 13/16	2 3/16	249.0	55.8
В	246.90	38 1/4	8 9/16	970.8	217.6	В	3,951.00	9 9/16	2 1/8	242.7	54.4
C4	261.60	37 1/8	8 5/16	942.2	211.2	C8	4,186.00	9 5/16	2 1/16	236.4	53.0
C [#] /D ^b	277.20	36 1/8	8 1/8	916.9	205.6	C [#] /D ^b	4,434.81	9	2	228.4	51.2
D	293.70	35 1/16	7 7/8	889.9	199.5	D	4,698.40	8 3/4	1 15/16	222.1	49.8
D#/Eb	311.10	34 1/16	7 5/8	864.5	193.8	D [#] /E ^b	4,978.00	8 1/2	1 7/8	215.7	48.4
E	329.61	33 1/8	7 7/16	840.7	188.5	E	5,274.00	8 1/4	1 7/8	209.4	46.9
F	349.30	32 1/8	7 3/16	815.3	182.8	F	5,588.00	8 1/16	1 13/16	204.6	45.9
F#/G ^D	370.00	31 1/4	7	793.1	177.8	F#/G ^D	5,920.00	7 13/16	1 3/4	198.3	44.5
G	392.00	30 3/8	6 13/16	770.9	172.8	G	6,272.00	7 9/16	1 11/16	191.9	43.0
G [#] /A ^D	415.30	29 1/2	6 5/8	748.7	167.9	G [#] /A ^D	6,644.80	7 3/8	1 5/8	187.2	42.0
Α	440.01	28 5/8	6 7/16	726.5	162.9	А	7,040.00	7 3/16	1 5/8	182.4	40.9
A#/BD	466.20	27 13/16	6 1/4	705.9	158.3	A#/BD	7,458.40	6 15/16	1 9/16	176.1	39.5
В	493.91	27 1/16	6 1/16	686.8	154.0	В	7,902.01	6 3/4	1 1/2	171.3	38.4
	www.hor	ne.fuse.net/e				C9	8,367.01	6 9/16	1 1/2	166.6	37.3
Caution		es allow you to g				vithin 1%)	but if you c	lesire an exac	t note, cut sli	ghtly long an	d arind to

Tubular Wind Chime Dimensions													
Coppe	er, Type	M (Red)	Nominal	size = 2 1/2	"			A=440 Hz	z, tube ope	en at both	ends		
OD ii	nches =	2.625	10	o inches =	2.495	Ma	terial =	Сор	per				
Wall =	0.065	inches	* Tubin	g length calcula	ated for fund	damental f	amental frequency ** Hang Point is for fundamenta			ental frequer	ncy node		
Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm	Octave Note	A=440 Freq. Hz	Length *	Hang Point** inches	Length *	Hang Point** mm		
C1	32.70	116 15/16	26 3/16	2,967.9	665.4	C5	523.30	29 1/4	6 9/16	742.4	166.4		
C [#] /D ^b	34.60	113 11/16	25 1/2	2,885.4	646.9	C [#] /D ^b	554.40	28 3/8	6 3/8	720.2	161.5		
D	36.70	110 3/8	24 3/4	2,801.3	628.1	D	587.30	27 5/8	6 3/16	701.1	157.2		
D [#] /E ^b	38.90	107 1/4	24 1/16	2,722.0	610.3	D [#] /E ^b	622.30	26 13/16	6	680.5	152.6		
E	41.21	104 3/16	23 3/8	2,644.3	592.8	Е	659.30	26 1/16	5 13/16	661.5	148.3		
F	43.70	101 3/16	22 11/16	2,568.1	575.8	F	698.50	25 5/16	5 11/16	642.4	144.0		
F#/G ^D	46.30	98 5/16	22 1/16	2,495.2	559.4	F#/G ^D	740.00	24 9/16	5 1/2	623.4	139.8		
G	49.00	95 9/16	21 7/16	2,425.4	543.8	G	784.00	23 7/8	5 3/8	605.9	135.9		
G [#] /A ^D	51.90	92 13/16	20 13/16	2,355.6	528.1	G [#] /A ^D	830.60	23 3/16	5 3/16	588.5	131.9		
Α	55.01	90 3/16	20 1/4	2,289.0	513.2	Α	880.00	22 9/16	5 1/16	572.6	128.4		
A#/BD	58.30	87 9/16	19 5/8	2,222.3	498.2	A [#] /B ^D	932.30	21 7/8	4 7/8	555.2	124.5		
В	61.70	85 1/8	19 1/16	2,160.5	484.4	В	987.80	21 1/4	4 3/4	539.3	120.9		
C2	65.40	82 11/16	18 9/16	2,098.6	470.5	C6	1,046.50	20 11/16	4 5/8	525.0	117.7		
C [#] /D ^b	69.30	80 5/16	18	2,038.3	457.0		1,108.70	20 1/16	4 1/2	509.2	114.2		
D _#.=b	73.41	78 1/16	17 1/2	1,981.2	444.2	D _#h	1,174.61	19 1/2	4 3/8	494.9	111.0		
D [#] /E ^b	77.80	75 13/16	17	1,924.1	431.4	D [#] /E ^b	1,244.50	18 15/16	4 1/4	480.6	107.8		
E	82.40	73 11/16	16 1/2	1,870.2	419.3	E	1,318.50	18 7/16	4 1/8	467.9	104.9		
F	87.30	71 9/16	16 1/16	1,816.3	407.2	F	1,397.00	17 7/8	4	453.7	101.7		
F#/G ^D	92.50	69 9/16	15 5/8	1,765.5	395.8		1,480.00	17 3/8	3 7/8	441.0	98.9		
G G#/AD	98.01	67 9/16	15 1/8	1,714.7	384.4	G [#] /A ^D	1,568.00	16 7/8	3 13/16	428.3	96.0		
	103.80	65 5/8	14 11/16 14 5/16	1,665.6	373.4		1,661.20	16 7/16	3 11/16 3 9/16	417.2	93.5		
A A A A A A A A A A A A A A A A A A A	110.00	63 3/4	13 7/8	1,618.0	362.7	A [#] /B ^D	1,760.00	15 15/16	3 1/2	404.5	90.7 88.2		
В	116.50 123.50	61 15/16 60 3/16	13 1/2	1,572.0 1,527.6	352.4 342.5	В	1,864.60 1,975.50	15 1/2 15 1/16	3 3/8	393.4 382.3	85.7		
C3	130.81	58 1/2	13 1/8	1,484.7	332.9	C7	2,093.00	14 5/8	3 1/4	371.2	83.2		
C [#] /D ^b	138.60	56 13/16	12 3/4	1,441.9	323.3	77 h	2,093.00	14 3/16	3 3/16	360.1	80.7		
D D	146.80	55 3/16	12 3/4	1,441.9	314.0	D D	2,349.20	13 13/16	3 1/8	350.6	78.6		
D [#] /E ^b	155.60	53 5/8	12	1,361.0	305.1	77 .	2,489.01	13 13/10	3	339.5	76.0		
E	164.80	52 1/8	11 11/16	1,322.9	296.6	E	2,637.00	13 3/0	2 15/16	329.9	74.0		
F	174.61	50 5/8	11 3/8	1,284.9	288.1	F	2,794.00	12 5/8	2 13/16	320.4	71.8		
F#/G ^D	185.00	49 3/16	11	1,248.4	279.9		2,960.00	12 5/16	2 3/4	312.5	70.1		
G	196.00	47 3/4	10 11/16	1,211.9	271.7	G	3,136.00	11 15/16	2 11/16	303.0	67.9		
G [#] /A ^D	207.70	46 3/8	10 3/8	1,177.0	263.9	77 75	3,322.41	11 5/8	2 5/8	295.0	66.1		
A	220.00	45 1/16	10 1/8	1,143.7	256.4	A	3,520.00	11 1/4	2 1/2	285.5	64.0		
A [#] /B ^D	233.10	43 13/16	9 13/16	1,112.0	249.3	A [#] /B ^D	3,729.20	10 15/16	2 7/16	277.6	62.2		
В	246.90	42 9/16	9 9/16	1,080.2	242.2	В	3,951.00	10 5/8	2 3/8	269.7	60.5		
C4	261.60	41 3/8	9 1/4	1,050.1	235.4	C8	4,186.00	10 5/16	2 5/16	261.7	58.7		
C#/Db	277.20	40 3/16	9	1,020.0	228.7	C#/Db	4,434.81	10 1/16	2 1/4	255.4	57.3		
D	293.70	39	8 3/4	989.8	221.9	D	4,698.40	9 3/4	2 3/16	247.5	55.5		
D [#] /E ^b	311.10	37 15/16	8 1/2	962.9	215.9	D#/Eb	4,978.00	9 1/2	2 1/8	241.1	54.1		
Е	329.61	36 13/16	8 1/4	934.3	209.5	Е	5,274.00	9 3/16	2 1/16	233.2	52.3		
F	349.30	35 13/16	8	908.9	203.8	F	5,588.00	8 15/16	2	226.8	50.9		
F#/G ^D	370.00	34 3/4	7 13/16	882.0	197.7	F#/G ^D	5,920.00	8 11/16	1 15/16	220.5	49.4		
G	392.00	33 3/4	7 9/16	856.6	192.0	G	6,272.00	8 7/16	1 7/8	214.1	48.0		
G [#] /A ^D	415.30	32 13/16	7 3/8	832.8	186.7	G [#] /A ^D	6,644.80	8 3/16	1 13/16	207.8	46.6		
Α	440.01	31 7/8	7 1/8	809.0	181.4	Α	7,040.00	8	1 13/16	203.0	45.5		
A#/BD	466.20	31	6 15/16	786.8	176.4	A#/BD	7,458.40	7 3/4	1 3/4	196.7	44.1		
В	493.91	30 1/16	6 3/4	763.0	171.1	В	7,902.01	7 1/2	1 11/16	190.4	42.7		
		ne.fuse.net/e				C9	8,367.01	7 5/16	1 5/8	185.6	41.6		

			-	Γubular W	/ind Ch	ime Di	mensic	ns			
Сорр	er, Type	M (Red)	Nominal	size = 3.0"				A=440 Hz,	tube open	at both en	ds
	inches =	3.125		D inches =			terial =	Сор	•		
Wall =	0.072	inches		g length calcul	ated for fund	damental f	requency '	** Hang Point	s for fundam	nental frequer	ncy node
Octave	A=440 Freq.	Length *	Hang Point**	Length *	Hang Point**	Octave	A=440 Freq.	Length *	Hang Point**	Length *	Hang Point**
Note C1	Hz 32.70	inches 127 11/16	inches 28 5/8	mm 3,240.7	mm 726.6	Note C5	Hz 523.30	inches 31 15/16	7 3/16	mm 810.6	mm 181.7
C [#] /D ^b	34.60	124 1/8	27 13/16	3,150.3	706.3	C [#] /D ^b	554.40	31 13/10	6 15/16	786.8	176.4
D	36.70	120 9/16	27	3,059.9	686.0	D	587.30	30 1/8	6 3/4	764.6	171.4
D#/Eb	38.90	117 1/16	26 1/4	2,971.0	666.1	D [#] /E ^b	622.30	29 1/4	6 9/16	742.4	166.4
E	41.21	113 3/4	25 1/2	2,887.0	647.3	E	659.30	28 7/16	6 3/8	721.7	161.8
F	43.70	110 1/2	24 3/4	2,804.5	628.8	F	698.50	27 5/8	6 3/16	701.1	157.2
F#/G ^D	46.30	107 5/16	24 1/16	2,723.6	610.6	F#/G ^D	740.00	26 7/8	6	682.1	152.9
G G	49.00	107 5/16	23 3/8	2,647.5	593.6	G G	784.00	26 1/16	5 13/16	661.5	148.3
G [#] /A ^D	51.90	104 3/16	22 3/4	2,572.9	576.8	G [#] /A ^D	830.60	25 5/16	5 11/16	642.4	144.0
			22 1/16	· · ·					5 1/2	625.0	140.1
A #/B ^D	55.01		21 7/16	2,498.3 2,427.0	560.1 544.1	$A^{\#}/B^{D}$	932.30		5 3/8		136.2
В	58.30 61.70	95 5/8 93	20 7/8	2,427.0	544.1	В	932.30	23 15/16 23 1/4	5 3/16	607.5 590.1	136.2
C2	65.40		20 1/4			C6		22 9/16	5 1/16		
C [#] /D ^D			19 11/16	2,292.1	513.9	C [#] /D ^b	1,046.50 1,108.70		4 15/16	572.6	128.4
	69.30			2,227.1	499.3			21 15/16		556.8	124.8
D [#] /E ^b	73.41	85 1/4	19 1/8	2,163.6	485.1	D [#] /E ^b	1,174.61	21 5/16	4 3/4	540.9	121.3
	77.80	82 13/16	18 9/16	2,101.8	471.2		1,244.50	20 11/16	4 5/8	525.0	117.7
E	82.40	80 7/16	18 1/16	2,041.5	457.7	E	1,318.50	20 1/8	4 1/2	510.8	114.5
F#/G ^D	87.30	78 3/16	17 1/2	1,984.4	444.9	F	1,397.00	19 9/16	4 3/8	496.5	111.3
	92.50	75 15/16	17	1,927.3	432.1	F#/G ^D	1,480.00	19	4 1/4	482.2	108.1
G O# u P	98.01	73 3/4	16 9/16	1,871.8	419.7	G G#,AP	1,568.00	18 7/16	4 1/8	467.9	104.9
G [#] /A ^D	103.80	71 11/16	16 1/16	1,819.4	407.9	G [#] /A ^D	1,661.20	17 15/16	4	455.3	102.1
A # (5.0	110.00	69 5/8	15 5/8	1,767.1	396.2	A#D	1,760.00	17 7/16	3 15/16	442.6	99.2
A#/BD	116.50	67 11/16	15 3/16	1,717.9	385.2	A [#] /B ^D	1,864.60	16 15/16	3 13/16	429.9	96.4
В	123.50	65 11/16	14 3/4	1,667.1	373.8	В	1,975.50	16 7/16	3 11/16	417.2	93.5
C3	130.81	63 7/8	14 5/16	1,621.1	363.5	C7	2,093.00	15 15/16	3 9/16	404.5	90.7
C [#] /D ^b	138.60	62 1/16	13 15/16	1,575.1	353.1	C [#] /D ^b	2,217.40	15 1/2	3 1/2	393.4	88.2
D _#.=b	146.80	60 1/4	13 1/2	1,529.1	342.8	D#b	2,349.20	15 1/16	3 3/8	382.3	85.7
D#/Eb	155.60	58 9/16	13 1/8	1,486.3	333.2	D#/Eb	2,489.01	14 5/8	3 1/4	371.2	83.2
E	164.80	56 7/8	12 3/4	1,443.5	323.6	E	2,637.00	14 1/4	3 3/16	361.7	81.1
F	174.61	55 1/4	12 3/8	1,402.2	314.4	F	2,794.00	13 13/16	3 1/8	350.6	78.6
F#/G ^D	185.00	53 11/16	12 1/16	1,362.6	305.5	F#/G ^D	2,960.00	13 7/16	3	341.0	76.5
G	196.00	52 3/16	11 11/16	1,324.5	297.0	G	3,136.00	13 1/16	2 15/16	331.5	74.3
G [#] /A ^D	207.70	50 11/16	11 3/8	1,286.4	288.4	G [#] /A ^D	3,322.41	12 11/16	2 7/8	322.0	72.2
A	220.00	49 1/4	11 1/16	1,250.0	280.2	A # D	3,520.00	12 5/16	2 3/4	312.5	70.1
A [#] /B ^D	233.10	47 13/16	10 3/4	1,213.5	272.1	A [#] /B ^D	3,729.20	11 15/16	2 11/16	303.0	67.9
В	246.90	46 1/2	10 7/16	1,180.2	264.6	В	3,951.00	11 5/8	2 5/8	295.0	66.1
C4	261.60	45 1/8	10 1/8	1,145.3	256.8	C8	4,186.00	11 5/16	2 9/16	287.1	64.4
C [#] /D ^b	277.20	43 7/8	9 13/16	1,113.5	249.7	C [#] /D ^b	4,434.81	10 15/16	2 7/16	277.6	62.2
D	293.70	42 5/8	9 9/16	1,081.8	242.5	D	4,698.40	10 5/8	2 3/8	269.7	60.5
D#/Eb	311.10	41 3/8	9 1/4	1,050.1	235.4	D [#] /E ^b	4,978.00	10 3/8	2 5/16	263.3	59.0
Е	329.61	40 1/4	9	1,021.5	229.0	E	5,274.00	10 1/16	2 1/4	255.4	57.3
F	349.30	39 1/16	8 3/4	991.4	222.3	F	5,588.00	9 3/4	2 3/16	247.5	55.5
F#/G ^D	370.00	37 15/16	8 1/2	962.9	215.9	F#/G ^D	5,920.00	9 1/2	2 1/8	241.1	54.1
G	392.00	36 7/8	8 1/4	935.9	209.8	G	6,272.00	9 1/4	2 1/16	234.8	52.6
G [#] /A ^D	415.30	35 13/16	8	908.9	203.8	G [#] /A ^D	6,644.80	8 15/16	2	226.8	50.9
Α	440.01	34 13/16	7 13/16	883.5	198.1	А	7,040.00	8 11/16	1 15/16	220.5	49.4
A#/BD	466.20	33 13/16	7 9/16	858.2	192.4	A#/B	7,458.40	8 7/16	1 7/8	214.1	48.0
В	493.91	32 7/8	7 3/8	834.4	187.1	В	7,902.01	8 3/16	1 13/16	207.8	46.6
	www.hon	ne.fuse.net/e	ngineering	d/Chimes.ht	<u>m</u>	C9	8,367.01	8	1 13/16	203.0	45.5
Coution	thoop wales	es allow you to d		be decired not	o (turnically)	uithin 10/	but if you o	laaira on avaa	t noto out oli		مقام مشورة