

Precalculated Metal Chime Dimensions

- For 0.049 inch wall thickness Aluminum family
- 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 pre-calculated 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, 43 or 44 Hz and this chart uses 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

Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 1/2"

A=440 Hz, tube open at both ends

OD inches = 0.500		ID inches = 0.402				Material = Aluminum					
Wall = 0.049 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	58 15/16	13 3/16	1,495.8	335.4	C5	523.30	14 3/4	3 5/16	374.4	83.9
C [#] /D ^b	34.60	57 5/16	12 7/8	1,454.6	326.1	C [#] /D ^b	554.40	14 5/16	3 3/16	363.3	81.4
D	36.70	55 5/8	12 1/2	1,411.8	316.5	D	587.30	13 15/16	3 1/8	353.7	79.3
D [#] /E ^b	38.90	54 1/16	12 1/8	1,372.1	307.6	D [#] /E ^b	622.30	13 1/2	3	342.6	76.8
E	41.21	52 1/2	11 3/4	1,332.5	298.7	E	659.30	13 1/8	2 15/16	333.1	74.7
F	43.70	51	11 7/16	1,294.4	290.2	F	698.50	12 3/4	2 7/8	323.6	72.5
F [#] /G ^b	46.30	49 9/16	11 1/8	1,257.9	282.0	F [#] /G ^b	740.00	12 3/8	2 3/4	314.1	70.4
G	49.00	48 3/16	10 13/16	1,223.0	274.2	G	784.00	12 1/16	2 11/16	306.1	68.6
G [#] /A ^b	51.90	46 13/16	10 1/2	1,188.1	266.4	G [#] /A ^b	830.60	11 11/16	2 5/8	296.6	66.5
A	55.01	45 7/16	10 3/16	1,153.2	258.5	A	880.00	11 3/8	2 9/16	288.7	64.7
A [#] /B ^b	58.30	44 1/8	9 7/8	1,119.9	251.1	A [#] /B ^b	932.30	11 1/16	2 1/2	280.8	62.9
B	61.70	42 15/16	9 5/8	1,089.8	244.3	B	987.80	10 3/4	2 7/16	272.8	61.2
C2	65.40	41 11/16	9 3/8	1,058.0	237.2	C6	1,046.50	10 7/16	2 5/16	264.9	59.4
C [#] /D ^b	69.30	40 1/2	9 1/16	1,027.9	230.5	C [#] /D ^b	1,108.70	10 1/8	2 1/4	257.0	57.6
D	73.41	39 3/8	8 13/16	999.3	224.1	D	1,174.61	9 13/16	2 3/16	249.0	55.8
D [#] /E ^b	77.80	38 1/4	8 9/16	970.8	217.6	D [#] /E ^b	1,244.50	9 9/16	2 1/8	242.7	54.4
E	82.40	37 1/8	8 5/16	942.2	211.2	E	1,318.50	9 5/16	2 1/16	236.4	53.0
F	87.30	36 1/16	8 1/16	915.3	205.2	F	1,397.00	9	2	228.4	51.2
F [#] /G ^b	92.50	35 1/16	7 7/8	889.9	199.5	F [#] /G ^b	1,480.00	8 3/4	1 15/16	222.1	49.8
G	98.01	34 1/16	7 5/8	864.5	193.8	G	1,568.00	8 1/2	1 7/8	215.7	48.4
G [#] /A ^b	103.80	33 1/16	7 7/16	839.1	188.1	G [#] /A ^b	1,661.20	8 1/4	1 7/8	209.4	46.9
A	110.00	32 1/8	7 3/16	815.3	182.8	A	1,760.00	8 1/16	1 13/16	204.6	45.9
A [#] /B ^b	116.50	31 1/4	7	793.1	177.8	A [#] /B ^b	1,864.60	7 13/16	1 3/4	198.3	44.5
B	123.50	30 5/16	6 13/16	769.3	172.5	B	1,975.50	7 9/16	1 11/16	191.9	43.0
C3	130.81	29 1/2	6 5/8	748.7	167.9	C7	2,093.00	7 3/8	1 5/8	187.2	42.0
C [#] /D ^b	138.60	28 5/8	6 7/16	726.5	162.9	C [#] /D ^b	2,217.40	7 3/16	1 5/8	182.4	40.9
D	146.80	27 13/16	6 1/4	705.9	158.3	D	2,349.20	6 15/16	1 9/16	176.1	39.5
D [#] /E ^b	155.60	27	6 1/16	685.3	153.6	D [#] /E ^b	2,489.01	6 3/4	1 1/2	171.3	38.4
E	164.80	26 1/4	5 7/8	666.2	149.4	E	2,637.00	6 9/16	1 1/2	166.6	37.3
F	174.61	25 1/2	5 11/16	647.2	145.1	F	2,794.00	6 3/8	1 7/16	161.8	36.3
F [#] /G ^b	185.00	24 13/16	5 9/16	629.7	141.2	F [#] /G ^b	2,960.00	6 3/16	1 3/8	157.0	35.2
G	196.00	24 1/16	5 3/8	610.7	136.9	G	3,136.00	6	1 3/8	152.3	34.1
G [#] /A ^b	207.70	23 3/8	5 1/4	593.3	133.0	G [#] /A ^b	3,322.41	5 7/8	1 5/16	149.1	33.4
A	220.00	22 3/4	5 1/8	577.4	129.5	A	3,520.00	5 11/16	1 1/4	144.3	32.4
A [#] /B ^b	233.10	22 1/16	4 15/16	559.9	125.5	A [#] /B ^b	3,729.20	5 1/2	1 1/4	139.6	31.3
B	246.90	21 7/16	4 13/16	544.1	122.0	B	3,951.00	5 3/8	1 3/16	136.4	30.6
C4	261.60	20 13/16	4 11/16	528.2	118.4	C8	4,186.00	5 3/16	1 3/16	131.7	29.5
C [#] /D ^b	277.20	20 1/4	4 9/16	513.9	115.2	C [#] /D ^b	4,434.81	5 1/16	1 1/8	128.5	28.8
D	293.70	19 11/16	4 7/16	499.7	112.0	D	4,698.40	4 15/16	1 1/8	125.3	28.1
D [#] /E ^b	311.10	19 1/8	4 5/16	485.4	108.8	D [#] /E ^b	4,978.00	4 3/4	1 1/16	120.6	27.0
E	329.61	18 9/16	4 3/16	471.1	105.6	E	5,274.00	4 5/8	1 1/16	117.4	26.3
F	349.30	18 1/16	4 1/16	458.4	102.8	F	5,588.00	4 1/2	1	114.2	25.6
F [#] /G ^b	370.00	17 1/2	3 15/16	444.2	99.6	F [#] /G ^b	5,920.00	4 3/8	1	111.0	24.9
G	392.00	17	3 13/16	431.5	96.7	G	6,272.00	4 1/4	15/16	107.9	24.2
G [#] /A ^b	415.30	16 9/16	3 11/16	420.4	94.2	G [#] /A ^b	6,644.80	4 1/8	15/16	104.7	23.5
A	440.01	16 1/16	3 5/8	407.7	91.4	A	7,040.00	4	7/8	101.5	22.8
A [#] /B ^b	466.20	15 5/8	3 1/2	396.6	88.9	A [#] /B ^b	7,458.40	3 7/8	7/8	98.3	22.0
B	493.91	15 3/16	3 3/8	385.5	86.4	B	7,902.01	3 13/16	7/8	96.8	21.7
						C9	8,367.01	3 11/16	13/16	93.6	21.0

www.home.fuse.net/engineering/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.

Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 3/4"

A=440 Hz, tube open at both ends

OD inches = 0.750		ID inches = 0.652				Material = Aluminum					
Wall = 0.049 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	73 3/8	16 7/16	1,862.3	417.5	C5	523.30	18 5/16	4 1/8	464.8	104.2
C#/D ^b	34.60	71 5/16	16	1,809.9	405.8	C#/D ^b	554.40	17 13/16	4	452.1	101.4
D	36.70	69 1/4	15 1/2	1,757.6	394.0	D	587.30	17 5/16	3 7/8	439.4	98.5
D#/E ^b	38.90	67 1/4	15 1/16	1,706.8	382.7	D#/E ^b	622.30	16 13/16	3 3/4	426.7	95.7
E	41.21	65 3/8	14 11/16	1,659.2	372.0	E	659.30	16 5/16	3 11/16	414.0	92.8
F	43.70	63 7/16	14 1/4	1,610.0	361.0	F	698.50	15 7/8	3 9/16	402.9	90.3
F#/G ^b	46.30	61 11/16	13 13/16	1,565.6	351.0	F#/G ^b	740.00	15 7/16	3 7/16	391.8	87.8
G	49.00	59 15/16	13 7/16	1,521.2	341.1	G	784.00	15	3 3/8	380.7	85.4
G#/A ^b	51.90	58 1/4	13 1/16	1,478.4	331.5	G#/A ^b	830.60	14 9/16	3 1/4	369.6	82.9
A	55.01	56 9/16	12 11/16	1,435.6	321.9	A	880.00	14 1/8	3 3/16	358.5	80.4
A#/B ^b	58.30	54 15/16	12 5/16	1,394.3	312.6	A#/B ^b	932.30	13 3/4	3 1/16	349.0	78.2
B	61.70	53 7/16	12	1,356.2	304.1	B	987.80	13 3/8	3	339.5	76.1
C2	65.40	51 7/8	11 5/8	1,316.6	295.2	C6	1,046.50	13	2 15/16	329.9	74.0
C#/D ^b	69.30	50 3/8	11 5/16	1,278.5	286.6	C#/D ^b	1,108.70	12 5/8	2 13/16	320.4	71.8
D	73.41	48 15/16	11	1,242.0	278.5	D	1,174.61	12 1/4	2 3/4	310.9	69.7
D#/E ^b	77.80	47 9/16	10 11/16	1,207.1	270.6	D#/E ^b	1,244.50	11 7/8	2 11/16	301.4	67.6
E	82.40	46 1/4	10 3/8	1,173.8	263.2	E	1,318.50	11 9/16	2 9/16	293.5	65.8
F	87.30	44 7/8	10 1/16	1,138.9	255.3	F	1,397.00	11 1/4	2 1/2	285.5	64.0
F#/G ^b	92.50	43 5/8	9 3/4	1,107.2	248.2	F#/G ^b	1,480.00	10 7/8	2 7/16	276.0	61.9
G	98.01	42 3/8	9 1/2	1,075.5	241.1	G	1,568.00	10 5/8	2 3/8	269.7	60.5
G#/A ^b	103.80	41 3/16	9 1/4	1,045.3	234.4	G#/A ^b	1,661.20	10 5/16	2 5/16	261.7	58.7
A	110.00	40	8 15/16	1,015.2	227.6	A	1,760.00	10	2 1/4	253.8	56.9
A#/B ^b	116.50	38 7/8	8 11/16	986.6	221.2	A#/B ^b	1,864.60	9 11/16	2 3/16	245.9	55.1
B	123.50	37 3/4	8 7/16	958.1	214.8	B	1,975.50	9 7/16	2 1/8	239.5	53.7
C3	130.81	36 11/16	8 1/4	931.1	208.8	C7	2,093.00	9 3/16	2 1/16	233.2	52.3
C#/D ^b	138.60	35 5/8	8	904.2	202.7	C#/D ^b	2,217.40	8 15/16	2	226.8	50.9
D	146.80	34 5/8	7 3/4	878.8	197.0	D	2,349.20	8 11/16	1 15/16	220.5	49.4
D#/E ^b	155.60	33 5/8	7 9/16	853.4	191.3	D#/E ^b	2,489.01	8 7/16	1 7/8	214.1	48.0
E	164.80	32 11/16	7 5/16	829.6	186.0	E	2,637.00	8 3/16	1 13/16	207.8	46.6
F	174.61	31 3/4	7 1/8	805.8	180.7	F	2,794.00	7 15/16	1 3/4	201.5	45.2
F#/G ^b	185.00	30 7/8	6 15/16	783.6	175.7	F#/G ^b	2,960.00	7 11/16	1 3/4	195.1	43.7
G	196.00	29 15/16	6 11/16	759.8	170.4	G	3,136.00	7 1/2	1 11/16	190.4	42.7
G#/A ^b	207.70	29 1/8	6 1/2	739.2	165.7	G#/A ^b	3,322.41	7 1/4	1 5/8	184.0	41.3
A	220.00	28 5/16	6 3/8	718.6	161.1	A	3,520.00	7 1/16	1 9/16	179.2	40.2
A#/B ^b	233.10	27 1/2	6 3/16	698.0	156.5	A#/B ^b	3,729.20	6 7/8	1 9/16	174.5	39.1
B	246.90	26 11/16	6	677.3	151.9	B	3,951.00	6 11/16	1 1/2	169.7	38.1
C4	261.60	25 15/16	5 13/16	658.3	147.6	C8	4,186.00	6 1/2	1 7/16	165.0	37.0
C#/D ^b	277.20	25 3/16	5 5/8	639.3	143.3	C#/D ^b	4,434.81	6 5/16	1 7/16	160.2	35.9
D	293.70	24 1/2	5 1/2	621.8	139.4	D	4,698.40	6 1/8	1 3/8	155.5	34.9
D#/E ^b	311.10	23 13/16	5 5/16	604.4	135.5	D#/E ^b	4,978.00	5 15/16	1 5/16	150.7	33.8
E	329.61	23 1/8	5 3/16	586.9	131.6	E	5,274.00	5 3/4	1 5/16	145.9	32.7
F	349.30	22 7/16	5	569.5	127.7	F	5,588.00	5 5/8	1 1/4	142.8	32.0
F#/G ^b	370.00	21 13/16	4 7/8	553.6	124.1	F#/G ^b	5,920.00	5 7/16	1 1/4	138.0	30.9
G	392.00	21 3/16	4 3/4	537.7	120.6	G	6,272.00	5 5/16	1 3/16	134.8	30.2
G#/A ^b	415.30	20 9/16	4 5/8	521.9	117.0	G#/A ^b	6,644.80	5 1/8	1 1/8	130.1	29.2
A	440.01	20	4 1/2	507.6	113.8	A	7,040.00	5	1 1/8	126.9	28.5
A#/B ^b	466.20	19 7/16	4 3/8	493.3	110.6	A#/B ^b	7,458.40	4 7/8	1 1/16	123.7	27.7
B	493.91	18 7/8	4 1/4	479.0	107.4	B	7,902.01	4 3/4	1 1/16	120.6	27.0
						C9	8,367.01	4 9/16	1	115.8	26.0

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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.

Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 1.0"

A=440 Hz, tube open at both ends

OD inches = 1.000		ID inches = 0.902				Material = Aluminum					
Wall = 0.049 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	85 7/16	19 1/8	2,168.4	486.2	C5	523.30	21 3/8	4 13/16	542.5	121.6
C [#] /D ^b	34.60	83 1/16	18 5/8	2,108.1	472.6	C [#] /D ^b	554.40	20 3/4	4 5/8	526.6	118.1
D	36.70	80 5/8	18 1/16	2,046.3	458.8	D	587.30	20 1/8	4 1/2	510.8	114.5
D [#] /E ^b	38.90	78 5/16	17 9/16	1,987.6	445.6	D [#] /E ^b	622.30	19 9/16	4 3/8	496.5	111.3
E	41.21	76 1/16	17 1/16	1,930.5	432.8	E	659.30	19	4 1/4	482.2	108.1
F	43.70	73 7/8	16 9/16	1,874.9	420.4	F	698.50	18 1/2	4 1/8	469.5	105.3
F [#] /G ^b	46.30	71 3/4	16 1/16	1,821.0	408.3	F [#] /G ^b	740.00	17 15/16	4	455.3	102.1
G	49.00	69 3/4	15 5/8	1,770.3	396.9	G	784.00	17 7/16	3 15/16	442.6	99.2
G [#] /A ^b	51.90	67 13/16	15 3/16	1,721.1	385.9	G [#] /A ^b	830.60	16 15/16	3 13/16	429.9	96.4
A	55.01	65 7/8	14 3/4	1,671.9	374.8	A	880.00	16 7/16	3 11/16	417.2	93.5
A [#] /B ^b	58.30	63 15/16	14 5/16	1,622.7	363.8	A [#] /B ^b	932.30	16	3 9/16	406.1	91.0
B	61.70	62 3/16	13 15/16	1,578.3	353.9	B	987.80	15 9/16	3 1/2	395.0	88.6
C2	65.40	60 3/8	13 9/16	1,532.3	343.5	C6	1,046.50	15 1/8	3 3/8	383.9	86.1
C [#] /D ^b	69.30	58 11/16	13 3/16	1,489.5	333.9	C [#] /D ^b	1,108.70	14 11/16	3 5/16	372.8	83.6
D	73.41	57	12 3/4	1,446.7	324.3	D	1,174.61	14 1/4	3 3/16	361.7	81.1
D [#] /E ^b	77.80	55 3/8	12 7/16	1,405.4	315.1	D [#] /E ^b	1,244.50	13 7/8	3 1/8	352.1	79.0
E	82.40	53 13/16	12 1/16	1,365.8	306.2	E	1,318.50	13 7/16	3	341.0	76.5
F	87.30	52 1/4	11 11/16	1,326.1	297.3	F	1,397.00	13 1/16	2 15/16	331.5	74.3
F [#] /G ^b	92.50	50 13/16	11 3/8	1,289.6	289.1	F [#] /G ^b	1,480.00	12 11/16	2 7/8	322.0	72.2
G	98.01	49 5/16	11 1/16	1,251.6	280.6	G	1,568.00	12 5/16	2 3/4	312.5	70.1
G [#] /A ^b	103.80	47 15/16	10 3/4	1,216.7	272.8	G [#] /A ^b	1,661.20	12	2 11/16	304.6	68.3
A	110.00	46 9/16	10 7/16	1,181.8	264.9	A	1,760.00	11 5/8	2 5/8	295.0	66.1
A [#] /B ^b	116.50	45 1/4	10 1/8	1,148.4	257.5	A [#] /B ^b	1,864.60	11 5/16	2 9/16	287.1	64.4
B	123.50	43 15/16	9 7/8	1,115.1	250.0	B	1,975.50	11	2 7/16	279.2	62.6
C3	130.81	42 11/16	9 9/16	1,083.4	242.9	C7	2,093.00	10 11/16	2 3/8	271.2	60.8
C [#] /D ^b	138.60	41 1/2	9 5/16	1,053.3	236.1	C [#] /D ^b	2,217.40	10 3/8	2 5/16	263.3	59.0
D	146.80	40 5/16	9 1/16	1,023.1	229.4	D	2,349.20	10 1/16	2 1/4	255.4	57.3
D [#] /E ^b	155.60	39 1/8	8 3/4	993.0	222.6	D [#] /E ^b	2,489.01	9 13/16	2 3/16	249.0	55.8
E	164.80	38 1/16	8 9/16	966.0	216.6	E	2,637.00	9 1/2	2 1/8	241.1	54.1
F	174.61	36 15/16	8 5/16	937.5	210.2	F	2,794.00	9 1/4	2 1/16	234.8	52.6
F [#] /G ^b	185.00	35 15/16	8 1/16	912.1	204.5	F [#] /G ^b	2,960.00	9	2	228.4	51.2
G	196.00	34 7/8	7 13/16	885.1	198.4	G	3,136.00	8 3/4	1 15/16	222.1	49.8
G [#] /A ^b	207.70	33 7/8	7 5/8	859.7	192.8	G [#] /A ^b	3,322.41	8 1/2	1 7/8	215.7	48.4
A	220.00	32 15/16	7 3/8	836.0	187.4	A	3,520.00	8 1/4	1 7/8	209.4	46.9
A [#] /B ^b	233.10	32	7 3/16	812.2	182.1	A [#] /B ^b	3,729.20	8	1 13/16	203.0	45.5
B	246.90	31 1/16	6 15/16	788.4	176.8	B	3,951.00	7 3/4	1 3/4	196.7	44.1
C4	261.60	30 3/16	6 3/4	766.2	171.8	C8	4,186.00	7 9/16	1 11/16	191.9	43.0
C [#] /D ^b	277.20	29 5/16	6 9/16	744.0	166.8	C [#] /D ^b	4,434.81	7 5/16	1 5/8	185.6	41.6
D	293.70	28 1/2	6 3/8	723.3	162.2	D	4,698.40	7 1/8	1 5/8	180.8	40.5
D [#] /E ^b	311.10	27 11/16	6 3/16	702.7	157.5	D [#] /E ^b	4,978.00	6 15/16	1 9/16	176.1	39.5
E	329.61	26 7/8	6	682.1	152.9	E	5,274.00	6 3/4	1 1/2	171.3	38.4
F	349.30	26 1/8	5 7/8	663.1	148.7	F	5,588.00	6 9/16	1 1/2	166.6	37.3
F [#] /G ^b	370.00	25 3/8	5 11/16	644.0	144.4	F [#] /G ^b	5,920.00	6 3/8	1 7/16	161.8	36.3
G	392.00	24 11/16	5 9/16	626.6	140.5	G	6,272.00	6 3/16	1 3/8	157.0	35.2
G [#] /A ^b	415.30	23 15/16	5 3/8	607.5	136.2	G [#] /A ^b	6,644.80	6	1 3/8	152.3	34.1
A	440.01	23 5/16	5 1/4	591.7	132.7	A	7,040.00	5 13/16	1 5/16	147.5	33.1
A [#] /B ^b	466.20	22 5/8	5 1/16	574.2	128.7	A [#] /B ^b	7,458.40	5 5/8	1 1/4	142.8	32.0
B	493.91	22	4 15/16	558.4	125.2	B	7,902.01	5 1/2	1 1/4	139.6	31.3
						C9	8,367.01	5 5/16	1 3/16	134.8	30.2

www.home.fuse.net/engineering/Chimes.htm

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Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 1 1/4"

A=440 Hz, tube open at both ends

OD inches = 1.250		ID inches = 1.152				Material = Aluminum					
Wall = 0.049 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	95 15/16	21 1/2	2,434.9	545.9	C5	523.30	24	5 3/8	609.1	136.6
C#/D ^b	34.60	93 5/16	20 15/16	2,368.3	531.0	C#/D ^b	554.40	23 5/16	5 1/4	591.7	132.7
D	36.70	90 9/16	20 5/16	2,298.5	515.3	D	587.30	22 5/8	5 1/16	574.2	128.7
D#/E ^b	38.90	88	19 3/4	2,233.4	500.7	D#/E ^b	622.30	22	4 15/16	558.4	125.2
E	41.21	85 1/2	19 3/16	2,170.0	486.5	E	659.30	21 3/8	4 13/16	542.5	121.6
F	43.70	83	18 5/8	2,106.5	472.3	F	698.50	20 3/4	4 5/8	526.6	118.1
F#/G ^d	46.30	80 5/8	18 1/16	2,046.3	458.8	F#/G ^d	740.00	20 3/16	4 1/2	512.4	114.9
G	49.00	78 3/8	17 9/16	1,989.2	446.0	G	784.00	19 5/8	4 3/8	498.1	111.7
G#/A ^d	51.90	76 3/16	17 1/16	1,933.6	433.5	G#/A ^d	830.60	19 1/16	4 1/4	483.8	108.5
A	55.01	74	16 9/16	1,878.1	421.1	A	880.00	18 1/2	4 1/8	469.5	105.3
A#/B ^d	58.30	71 7/8	16 1/8	1,824.2	409.0	A#/B ^d	932.30	18	4 1/16	456.8	102.4
B	61.70	69 7/8	15 11/16	1,773.4	397.6	B	987.80	17 7/16	3 15/16	442.6	99.2
C2	65.40	67 7/8	15 3/16	1,722.7	386.2	C6	1,046.50	16 15/16	3 13/16	429.9	96.4
C#/D ^b	69.30	65 15/16	14 13/16	1,673.5	375.2	C#/D ^b	1,108.70	16 1/2	3 11/16	418.8	93.9
D	73.41	64 1/16	14 3/8	1,625.9	364.5	D	1,174.61	16	3 9/16	406.1	91.0
D#/E ^b	77.80	62 3/16	13 15/16	1,578.3	353.9	D#/E ^b	1,244.50	15 9/16	3 1/2	395.0	88.6
E	82.40	60 7/16	13 9/16	1,533.9	343.9	E	1,318.50	15 1/8	3 3/8	383.9	86.1
F	87.30	58 3/4	13 3/16	1,491.1	334.3	F	1,397.00	14 11/16	3 5/16	372.8	83.6
F#/G ^d	92.50	57 1/16	12 13/16	1,448.2	324.7	F#/G ^d	1,480.00	14 1/4	3 3/16	361.7	81.1
G	98.01	55 7/16	12 7/16	1,407.0	315.5	G	1,568.00	13 7/8	3 1/8	352.1	79.0
G#/A ^d	103.80	53 7/8	12 1/16	1,367.3	306.6	G#/A ^d	1,661.20	13 7/16	3	341.0	76.5
A	110.00	52 5/16	11 3/4	1,327.7	297.7	A	1,760.00	13 1/16	2 15/16	331.5	74.3
A#/B ^d	116.50	50 13/16	11 3/8	1,289.6	289.1	A#/B ^d	1,864.60	12 11/16	2 7/8	322.0	72.2
B	123.50	49 3/8	11 1/16	1,253.1	281.0	B	1,975.50	12 3/8	2 3/4	314.1	70.4
C3	130.81	48	10 3/4	1,218.2	273.1	C7	2,093.00	12	2 11/16	304.6	68.3
C#/D ^b	138.60	46 5/8	10 7/16	1,183.3	265.3	C#/D ^b	2,217.40	11 5/8	2 5/8	295.0	66.1
D	146.80	45 5/16	10 3/16	1,150.0	257.8	D	2,349.20	11 5/16	2 9/16	287.1	64.4
D#/E ^b	155.60	44	9 7/8	1,116.7	250.4	D#/E ^b	2,489.01	11	2 7/16	279.2	62.6
E	164.80	42 3/4	9 9/16	1,085.0	243.3	E	2,637.00	10 11/16	2 3/8	271.2	60.8
F	174.61	41 1/2	9 5/16	1,053.3	236.1	F	2,794.00	10 3/8	2 5/16	263.3	59.0
F#/G ^d	185.00	40 5/16	9 1/16	1,023.1	229.4	F#/G ^d	2,960.00	10 1/16	2 1/4	255.4	57.3
G	196.00	39 3/16	8 13/16	994.6	223.0	G	3,136.00	9 13/16	2 3/16	249.0	55.8
G#/A ^d	207.70	38 1/16	8 9/16	966.0	216.6	G#/A ^d	3,322.41	9 1/2	2 1/8	241.1	54.1
A	220.00	37	8 5/16	939.1	210.5	A	3,520.00	9 1/4	2 1/16	234.8	52.6
A#/B ^d	233.10	35 15/16	8 1/16	912.1	204.5	A#/B ^d	3,729.20	9	2	228.4	51.2
B	246.90	34 15/16	7 13/16	886.7	198.8	B	3,951.00	8 3/4	1 15/16	222.1	49.8
C4	261.60	33 15/16	7 5/8	861.3	193.1	C8	4,186.00	8 1/2	1 7/8	215.7	48.4
C#/D ^b	277.20	32 15/16	7 3/8	836.0	187.4	C#/D ^b	4,434.81	8 1/4	1 7/8	209.4	46.9
D	293.70	32	7 3/16	812.2	182.1	D	4,698.40	8	1 13/16	203.0	45.5
D#/E ^b	311.10	31 1/8	7	790.0	177.1	D#/E ^b	4,978.00	7 3/4	1 3/4	196.7	44.1
E	329.61	30 1/4	6 13/16	767.7	172.1	E	5,274.00	7 9/16	1 11/16	191.9	43.0
F	349.30	29 3/8	6 9/16	745.5	167.1	F	5,588.00	7 5/16	1 5/8	185.6	41.6
F#/G ^d	370.00	28 1/2	6 3/8	723.3	162.2	F#/G ^d	5,920.00	7 1/8	1 5/8	180.8	40.5
G	392.00	27 11/16	6 3/16	702.7	157.5	G	6,272.00	6 15/16	1 9/16	176.1	39.5
G#/A ^d	415.30	26 15/16	6 1/16	683.7	153.3	G#/A ^d	6,644.80	6 3/4	1 1/2	171.3	38.4
A	440.01	26 3/16	5 7/8	664.6	149.0	A	7,040.00	6 9/16	1 1/2	166.6	37.3
A#/B ^d	466.20	25 7/16	5 11/16	645.6	144.7	A#/B ^d	7,458.40	6 3/8	1 7/16	161.8	36.3
B	493.91	24 11/16	5 9/16	626.6	140.5	B	7,902.01	6 3/16	1 3/8	157.0	35.2
						C9	8,367.01	6	1 3/8	152.3	34.1

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Tubular Wind Chime Dimensions

Aluminum, Wall .049

Nominal size = 1 1/2"

A=440 Hz, tube open at both ends

OD inches = 1.500		ID inches = 1.402				Material = Aluminum					
Wall = 0.049 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	105 7/16	23 5/8	2,676.0	600.0	C5	523.30	26 3/8	5 15/16	669.4	150.1
C#/D ^b	34.60	102 1/2	23	2,601.5	583.2	C#/D ^b	554.40	25 5/8	5 3/4	650.4	145.8
D	36.70	99 9/16	22 5/16	2,526.9	566.5	D	587.30	24 7/8	5 9/16	631.3	141.5
D#/E ^b	38.90	96 11/16	21 11/16	2,453.9	550.2	D#/E ^b	622.30	24 3/16	5 7/16	613.9	137.6
E	41.21	93 15/16	21 1/16	2,384.1	534.5	E	659.30	23 1/2	5 1/4	596.4	133.7
F	43.70	91 1/4	20 7/16	2,315.9	519.2	F	698.50	22 13/16	5 1/8	579.0	129.8
F#/G ^b	46.30	88 5/8	19 7/8	2,249.3	504.3	F#/G ^b	740.00	22 3/16	5	563.1	126.3
G	49.00	86 1/8	19 5/16	2,185.9	490.1	G	784.00	21 9/16	4 13/16	547.3	122.7
G#/A ^b	51.90	83 11/16	18 3/4	2,124.0	476.2	G#/A ^b	830.60	20 15/16	4 11/16	531.4	119.1
A	55.01	81 5/16	18 1/4	2,063.7	462.7	A	880.00	20 5/16	4 9/16	515.5	115.6
A#/B ^b	58.30	79	17 11/16	2,005.0	449.5	A#/B ^b	932.30	19 3/4	4 7/16	501.3	112.4
B	61.70	76 3/4	17 3/16	1,947.9	436.7	B	987.80	19 3/16	4 5/16	487.0	109.2
C2	65.40	74 9/16	16 11/16	1,892.4	424.3	C6	1,046.50	18 5/8	4 3/16	472.7	106.0
C#/D ^b	69.30	72 7/16	16 1/4	1,838.5	412.2	C#/D ^b	1,108.70	18 1/8	4 1/16	460.0	103.1
D	73.41	70 3/8	15 3/4	1,786.1	400.4	D	1,174.61	17 5/8	3 15/16	447.3	100.3
D#/E ^b	77.80	68 3/8	15 5/16	1,735.4	389.1	D#/E ^b	1,244.50	17 1/8	3 13/16	434.6	97.4
E	82.40	66 7/16	14 7/8	1,686.2	378.0	E	1,318.50	16 5/8	3 3/4	421.9	94.6
F	87.30	64 9/16	14 1/2	1,638.6	367.4	F	1,397.00	16 1/8	3 5/8	409.3	91.8
F#/G ^b	92.50	62 11/16	14 1/16	1,591.0	356.7	F#/G ^b	1,480.00	15 11/16	3 1/2	398.1	89.3
G	98.01	60 15/16	13 11/16	1,546.6	346.7	G	1,568.00	15 1/4	3 7/16	387.0	86.8
G#/A ^b	103.80	59 3/16	13 1/4	1,502.2	336.8	G#/A ^b	1,661.20	14 13/16	3 5/16	375.9	84.3
A	110.00	57 1/2	12 7/8	1,459.4	327.2	A	1,760.00	14 3/8	3 1/4	364.8	81.8
A#/B ^b	116.50	55 7/8	12 1/2	1,418.1	317.9	A#/B ^b	1,864.60	13 15/16	3 1/8	353.7	79.3
B	123.50	54 1/4	12 3/16	1,376.9	308.7	B	1,975.50	13 9/16	3 1/16	344.2	77.2
C3	130.81	52 3/4	11 13/16	1,338.8	300.2	C7	2,093.00	13 3/16	2 15/16	334.7	75.0
C#/D ^b	138.60	51 1/4	11 1/2	1,300.7	291.6	C#/D ^b	2,217.40	12 13/16	2 7/8	325.2	72.9
D	146.80	49 3/4	11 1/8	1,262.7	283.1	D	2,349.20	12 7/16	2 13/16	315.7	70.8
D#/E ^b	155.60	48 3/8	10 7/8	1,227.8	275.3	D#/E ^b	2,489.01	12 1/16	2 11/16	306.1	68.6
E	164.80	47	10 9/16	1,192.9	267.4	E	2,637.00	11 3/4	2 5/8	298.2	66.9
F	174.61	45 5/8	10 1/4	1,158.0	259.6	F	2,794.00	11 7/16	2 9/16	290.3	65.1
F#/G ^b	185.00	44 5/16	9 15/16	1,124.7	252.1	F#/G ^b	2,960.00	11 1/16	2 1/2	280.8	62.9
G	196.00	43 1/16	9 5/8	1,092.9	245.0	G	3,136.00	10 3/4	2 7/16	272.8	61.2
G#/A ^b	207.70	41 7/8	9 3/8	1,062.8	238.3	G#/A ^b	3,322.41	10 7/16	2 5/16	264.9	59.4
A	220.00	40 11/16	9 1/8	1,032.6	231.5	A	3,520.00	10 3/16	2 5/16	258.6	58.0
A#/B ^b	233.10	39 1/2	8 7/8	1,002.5	224.8	A#/B ^b	3,729.20	9 7/8	2 3/16	250.6	56.2
B	246.90	38 3/8	8 5/8	974.0	218.4	B	3,951.00	9 5/8	2 3/16	244.3	54.8
C4	261.60	37 5/16	8 3/8	947.0	212.3	C8	4,186.00	9 5/16	2 1/16	236.4	53.0
C#/D ^b	277.20	36 1/4	8 1/8	920.0	206.3	C#/D ^b	4,434.81	9 1/16	2 1/16	230.0	51.6
D	293.70	35 3/16	7 7/8	893.1	200.2	D	4,698.40	8 13/16	2	223.7	50.1
D#/E ^b	311.10	34 3/16	7 11/16	867.7	194.5	D#/E ^b	4,978.00	8 9/16	1 15/16	217.3	48.7
E	329.61	33 3/16	7 7/16	842.3	188.8	E	5,274.00	8 5/16	1 7/8	211.0	47.3
F	349.30	32 1/4	7 1/4	818.5	183.5	F	5,588.00	8 1/16	1 13/16	204.6	45.9
F#/G ^b	370.00	31 3/8	7 1/16	796.3	178.5	F#/G ^b	5,920.00	7 13/16	1 3/4	198.3	44.5
G	392.00	30 7/16	6 13/16	772.5	173.2	G	6,272.00	7 5/8	1 11/16	193.5	43.4
G#/A ^b	415.30	29 9/16	6 5/8	750.3	168.2	G#/A ^b	6,644.80	7 3/8	1 5/8	187.2	42.0
A	440.01	28 3/4	6 7/16	729.7	163.6	A	7,040.00	7 3/16	1 5/8	182.4	40.9
A#/B ^b	466.20	27 15/16	6 1/4	709.1	159.0	A#/B ^b	7,458.40	7	1 9/16	177.7	39.8
B	493.91	27 1/8	6 1/16	688.4	154.3	B	7,902.01	6 13/16	1 1/2	172.9	38.8
						C9	8,367.01	6 9/16	1 1/2	166.6	37.3

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Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 2.0"

A=440 Hz, tube open at both ends

OD inches = 2.000		ID inches = 1.902				Material = Aluminum					
Wall = 0.049 inches		3.125									
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	122 1/4	27 7/16	3,102.7	695.6	C5	523.30	30 9/16	6 7/8	775.7	173.9
C#/D ^b	34.60	118 7/8	26 5/8	3,017.0	676.4	C#/D ^b	554.40	29 11/16	6 5/8	753.5	168.9
D	36.70	115 7/16	25 7/8	2,929.8	656.9	D	587.30	28 7/8	6 1/2	732.8	164.3
D#/E ^b	38.90	112 1/8	25 1/8	2,845.7	638.0	D#/E ^b	622.30	28	6 1/4	710.6	159.3
E	41.21	108 15/16	24 7/16	2,764.8	619.9	E	659.30	27 1/4	6 1/8	691.6	155.1
F	43.70	105 3/4	23 11/16	2,683.9	601.7	F	698.50	26 7/16	5 15/16	671.0	150.4
F#/G ^d	46.30	102 3/4	23 1/16	2,607.8	584.7	F#/G ^d	740.00	25 11/16	5 3/4	651.9	146.2
G	49.00	99 7/8	22 3/8	2,534.8	568.3	G	784.00	25	5 5/8	634.5	142.3
G#/A ^d	51.90	97 1/16	21 3/4	2,463.4	552.3	G#/A ^d	830.60	24 1/4	5 7/16	615.5	138.0
A	55.01	94 1/4	21 1/8	2,392.1	536.3	A	880.00	23 9/16	5 5/16	598.0	134.1
A#/B ^d	58.30	91 9/16	20 1/2	2,323.9	521.0	A#/B ^d	932.30	22 7/8	5 1/8	580.6	130.2
B	61.70	89	19 15/16	2,258.8	506.4	B	987.80	22 1/4	5	564.7	126.6
C2	65.40	86 7/16	19 3/8	2,193.8	491.8	C6	1,046.50	21 5/8	4 7/8	548.8	123.1
C#/D ^b	69.30	84	18 13/16	2,131.9	478.0	C#/D ^b	1,108.70	21	4 11/16	533.0	119.5
D	73.41	81 5/8	18 5/16	2,071.6	464.5	D	1,174.61	20 3/8	4 9/16	517.1	115.9
D#/E ^b	77.80	79 1/4	17 3/4	2,011.4	450.9	D#/E ^b	1,244.50	19 13/16	4 7/16	502.8	112.7
E	82.40	77	17 1/4	1,954.3	438.1	E	1,318.50	19 1/4	4 5/16	488.6	109.5
F	87.30	74 13/16	16 3/4	1,898.7	425.7	F	1,397.00	18 11/16	4 3/16	474.3	106.3
F#/G ^d	92.50	72 11/16	16 5/16	1,844.8	413.6	F#/G ^d	1,480.00	18 3/16	4 1/16	461.6	103.5
G	98.01	70 5/8	15 13/16	1,792.5	401.9	G	1,568.00	17 11/16	3 15/16	448.9	100.6
G#/A ^d	103.80	68 5/8	15 3/8	1,741.7	390.5	G#/A ^d	1,661.20	17 1/8	3 13/16	434.6	97.4
A	110.00	66 11/16	14 15/16	1,692.5	379.5	A	1,760.00	16 11/16	3 3/4	423.5	95.0
A#/B ^d	116.50	64 3/4	14 1/2	1,643.4	368.4	A#/B ^d	1,864.60	16 3/16	3 5/8	410.8	92.1
B	123.50	62 15/16	14 1/8	1,597.4	358.1	B	1,975.50	15 3/4	3 1/2	399.7	89.6
C3	130.81	61 1/8	13 11/16	1,551.4	347.8	C7	2,093.00	15 5/16	3 7/16	388.6	87.1
C#/D ^b	138.60	59 3/8	13 5/16	1,506.9	337.9	C#/D ^b	2,217.40	14 7/8	3 5/16	377.5	84.6
D	146.80	57 11/16	12 15/16	1,464.1	328.3	D	2,349.20	14 7/16	3 1/4	366.4	82.2
D#/E ^b	155.60	56 1/16	12 9/16	1,422.9	319.0	D#/E ^b	2,489.01	14	3 1/8	355.3	79.7
E	164.80	54 7/16	12 3/16	1,381.6	309.8	E	2,637.00	13 5/8	3 1/16	345.8	77.5
F	174.61	52 15/16	11 7/8	1,343.6	301.2	F	2,794.00	13 1/4	3	336.3	75.4
F#/G ^d	185.00	51 7/16	11 9/16	1,305.5	292.7	F#/G ^d	2,960.00	12 7/8	2 7/8	326.8	73.3
G	196.00	49 15/16	11 3/16	1,267.4	284.2	G	3,136.00	12 1/2	2 13/16	317.3	71.1
G#/A ^d	207.70	48 1/2	10 7/8	1,230.9	276.0	G#/A ^d	3,322.41	12 1/8	2 11/16	307.7	69.0
A	220.00	47 1/8	10 9/16	1,196.0	268.2	A	3,520.00	11 13/16	2 5/8	299.8	67.2
A#/B ^d	233.10	45 13/16	10 1/4	1,162.7	260.7	A#/B ^d	3,729.20	11 7/16	2 9/16	290.3	65.1
B	246.90	44 1/2	10	1,129.4	253.2	B	3,951.00	11 1/8	2 1/2	282.4	63.3
C4	261.60	43 1/4	9 11/16	1,097.7	246.1	C8	4,186.00	10 13/16	2 7/16	274.4	61.5
C#/D ^b	277.20	42	9 7/16	1,066.0	239.0	C#/D ^b	4,434.81	10 1/2	2 3/8	266.5	59.7
D	293.70	40 13/16	9 1/8	1,035.8	232.2	D	4,698.40	10 3/16	2 5/16	258.6	58.0
D#/E ^b	311.10	39 5/8	8 7/8	1,005.7	225.5	D#/E ^b	4,978.00	9 15/16	2 1/4	252.2	56.5
E	329.61	38 1/2	8 5/8	977.1	219.1	E	5,274.00	9 5/8	2 3/16	244.3	54.8
F	349.30	37 7/16	8 3/8	950.2	213.0	F	5,588.00	9 3/8	2 1/8	237.9	53.3
F#/G ^d	370.00	36 3/8	8 1/8	923.2	207.0	F#/G ^d	5,920.00	9 1/16	2 1/16	230.0	51.6
G	392.00	35 5/16	7 15/16	896.2	200.9	G	6,272.00	8 13/16	2	223.7	50.1
G#/A ^d	415.30	34 5/16	7 11/16	870.9	195.2	G#/A ^d	6,644.80	8 9/16	1 15/16	217.3	48.7
A	440.01	33 5/16	7 7/16	845.5	189.6	A	7,040.00	8 5/16	1 7/8	211.0	47.3
A#/B ^d	466.20	32 3/8	7 1/4	821.7	184.2	A#/B ^d	7,458.40	8 1/8	1 13/16	206.2	46.2
B	493.91	31 7/16	7 1/16	797.9	178.9	B	7,902.01	7 7/8	1 3/4	199.9	44.8
						C9	8,367.01	7 5/8	1 11/16	193.5	43.4

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Tubular Wind Chime Dimensions

Aluminum .049 Wall Nominal size = 2 1/4"

A=440 Hz, tube open at both ends

OD inches = 2.250		ID inches = 2.152				Material = Aluminum					
Wall = 0.049 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	129 7/8	29 1/8	3,296.2	739.0	C5	523.30	32 7/16	7 1/4	823.3	184.6
C [#] /D ^b	34.60	126 1/4	28 5/16	3,204.2	718.4	C [#] /D ^b	554.40	31 9/16	7 1/16	801.1	179.6
D	36.70	122 9/16	27 1/2	3,110.6	697.4	D	587.30	30 5/8	6 7/8	777.3	174.3
D [#] /E ^b	38.90	119 1/16	26 11/16	3,021.8	677.5	D [#] /E ^b	622.30	29 3/4	6 11/16	755.1	169.3
E	41.21	115 11/16	25 15/16	2,936.1	658.3	E	659.30	28 15/16	6 1/2	734.4	164.7
F	43.70	112 5/16	25 3/16	2,850.5	639.1	F	698.50	28 1/8	6 5/16	713.8	160.0
F [#] /G ^b	46.30	109 1/8	24 7/16	2,769.6	620.9	F [#] /G ^b	740.00	27 5/16	6 1/8	693.2	155.4
G	49.00	106 1/16	23 3/4	2,691.9	603.5	G	784.00	26 1/2	5 15/16	672.6	150.8
G [#] /A ^b	51.90	103 1/16	23 1/8	2,615.7	586.4	G [#] /A ^b	830.60	25 3/4	5 3/4	653.5	146.5
A	55.01	100 1/8	22 7/16	2,541.2	569.7	A	880.00	25 1/16	5 5/8	636.1	142.6
A [#] /B ^b	58.30	97 1/4	21 13/16	2,468.2	553.4	A [#] /B ^b	932.30	24 5/16	5 7/16	617.1	138.3
B	61.70	94 9/16	21 3/16	2,400.0	538.1	B	987.80	23 5/8	5 5/16	599.6	134.4
C2	65.40	91 13/16	20 9/16	2,330.2	522.4	C6	1,046.50	22 15/16	5 1/8	582.2	130.5
C [#] /D ^b	69.30	89 3/16	20	2,263.6	507.5	C [#] /D ^b	1,108.70	22 5/16	5	566.3	127.0
D	73.41	86 11/16	19 7/16	2,200.1	493.3	D	1,174.61	21 11/16	4 7/8	550.4	123.4
D [#] /E ^b	77.80	84 3/16	18 7/8	2,136.7	479.0	D [#] /E ^b	1,244.50	21 1/16	4 3/4	534.6	119.8
E	82.40	81 13/16	18 5/16	2,076.4	465.5	E	1,318.50	20 7/16	4 9/16	518.7	116.3
F	87.30	79 1/2	17 13/16	2,017.7	452.4	F	1,397.00	19 7/8	4 7/16	504.4	113.1
F [#] /G ^b	92.50	77 3/16	17 5/16	1,959.0	439.2	F [#] /G ^b	1,480.00	19 5/16	4 5/16	490.2	109.9
G	98.01	75	16 13/16	1,903.5	426.8	G	1,568.00	18 3/4	4 3/16	475.9	106.7
G [#] /A ^b	103.80	72 7/8	16 5/16	1,849.6	414.7	G [#] /A ^b	1,661.20	18 1/4	4 1/16	463.2	103.8
A	110.00	70 13/16	15 7/8	1,797.2	402.9	A	1,760.00	17 11/16	3 15/16	448.9	100.6
A [#] /B ^b	116.50	68 13/16	15 7/16	1,746.5	391.6	A [#] /B ^b	1,864.60	17 3/16	3 7/8	436.2	97.8
B	123.50	66 13/16	15	1,695.7	380.2	B	1,975.50	16 11/16	3 3/4	423.5	95.0
C3	130.81	64 15/16	14 9/16	1,648.1	369.5	C7	2,093.00	16 1/4	3 5/8	412.4	92.5
C [#] /D ^b	138.60	63 1/16	14 1/8	1,600.5	358.8	C [#] /D ^b	2,217.40	15 3/4	3 1/2	399.7	89.6
D	146.80	61 5/16	13 3/4	1,556.1	348.9	D	2,349.20	15 5/16	3 7/16	388.6	87.1
D [#] /E ^b	155.60	59 9/16	13 3/8	1,511.7	338.9	D [#] /E ^b	2,489.01	14 7/8	3 5/16	377.5	84.6
E	164.80	57 7/8	13	1,468.9	329.3	E	2,637.00	14 7/16	3 1/4	366.4	82.2
F	174.61	56 3/16	12 5/8	1,426.0	319.7	F	2,794.00	14 1/16	3 1/8	356.9	80.0
F [#] /G ^b	185.00	54 5/8	12 1/4	1,386.4	310.8	F [#] /G ^b	2,960.00	13 5/8	3 1/16	345.8	77.5
G	196.00	53 1/16	11 7/8	1,346.7	301.9	G	3,136.00	13 1/4	3	336.3	75.4
G [#] /A ^b	207.70	51 1/2	11 9/16	1,307.1	293.0	G [#] /A ^b	3,322.41	12 7/8	2 7/8	326.8	73.3
A	220.00	50 1/16	11 1/4	1,270.6	284.9	A	3,520.00	12 1/2	2 13/16	317.3	71.1
A [#] /B ^b	233.10	48 5/8	10 7/8	1,234.1	276.7	A [#] /B ^b	3,729.20	12 3/16	2 3/4	309.3	69.3
B	246.90	47 1/4	10 9/16	1,199.2	268.9	B	3,951.00	11 13/16	2 5/8	299.8	67.2
C4	261.60	45 15/16	10 5/16	1,165.9	261.4	C8	4,186.00	11 1/2	2 9/16	291.9	65.4
C [#] /D ^b	277.20	44 5/8	10	1,132.6	253.9	C [#] /D ^b	4,434.81	11 1/8	2 1/2	282.4	63.3
D	293.70	43 5/16	9 11/16	1,099.3	246.5	D	4,698.40	10 13/16	2 7/16	274.4	61.5
D [#] /E ^b	311.10	42 1/8	9 7/16	1,069.1	239.7	D [#] /E ^b	4,978.00	10 1/2	2 3/8	266.5	59.7
E	329.61	40 7/8	9 3/16	1,037.4	232.6	E	5,274.00	10 1/4	2 5/16	260.1	58.3
F	349.30	39 3/4	8 15/16	1,008.9	226.2	F	5,588.00	9 15/16	2 1/4	252.2	56.5
F [#] /G ^b	370.00	38 5/8	8 11/16	980.3	219.8	F [#] /G ^b	5,920.00	9 5/8	2 3/16	244.3	54.8
G	392.00	37 1/2	8 7/16	951.8	213.4	G	6,272.00	9 3/8	2 1/8	237.9	53.3
G [#] /A ^b	415.30	36 7/16	8 3/16	924.8	207.3	G [#] /A ^b	6,644.80	9 1/8	2 1/16	231.6	51.9
A	440.01	35 3/8	7 15/16	897.8	201.3	A	7,040.00	8 7/8	2	225.2	50.5
A [#] /B ^b	466.20	34 3/8	7 11/16	872.4	195.6	A [#] /B ^b	7,458.40	8 5/8	1 15/16	218.9	49.1
B	493.91	33 7/16	7 1/2	848.6	190.3	B	7,902.01	8 3/8	1 7/8	212.6	47.7
						C9	8,367.01	8 1/8	1 13/16	206.2	46.2

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