

## A=440 - Chime Length Calculator for a Tube or Rod – Inches Version

unrestricted at both ends

To determine the resonant frequency for a rod, set the ID=0 and enter the OD and Metal Type  
**Enter values in BLUE, answers in ORANGE (inches) and YELLOW (mm)**

OD inches = <span style="color: blue;">1.000</span>		ID inches = <span style="color: blue;">0.750</span>				Metal = <span style="color: blue;">Aluminum</span> <span style="color: red;">&lt; Click to Select</span>					
Wall = <span style="color: green;">0.125</span> inches		Length calculated for fundamental F						Hang Point is for fundamental F node			
Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point	Note	Freq Hz	Length inches	Hang Point	Length mm	Hang Point
C1	32.70	82 3/16	18 7/16	2,087.6	468.0	C5	523.30	20 9/16	4 5/8	522.3	117.1
C <sup>#</sup> /D <sup>b</sup>	34.60	79 15/16	17 15/16	2,030.4	455.2	C <sup>#</sup> /D <sup>b</sup>	554.40	19 15/16	4 1/2	506.4	113.5
D	36.70	77 9/16	17 3/8	1,970.1	441.7	D	587.30	19 3/8	4 3/8	492.1	110.3
D <sup>#</sup> /E <sup>b</sup>	38.90	75 3/8	16 7/8	1,914.5	429.2	D <sup>#</sup> /E <sup>b</sup>	622.30	18 13/16	4 3/16	477.8	107.1
E	41.21	73 1/4	16 7/16	1,860.6	417.1	E	659.30	18 5/16	4 1/8	465.1	104.3
F	43.70	71 1/8	15 15/16	1,806.6	405.0	F	698.50	17 13/16	4	452.4	101.4
F <sup>#</sup> /G <sup>b</sup>	46.30	69 1/16	15 1/2	1,754.2	393.3	F <sup>#</sup> /G <sup>b</sup>	740.00	17 1/4	3 7/8	438.2	98.2
G	49.00	67 1/8	15 1/16	1,705.0	382.3	G	784.00	16 13/16	3 3/4	427.0	95.7
G <sup>#</sup> /A <sup>b</sup>	51.90	65 1/4	14 5/8	1,657.4	371.6	G <sup>#</sup> /A <sup>b</sup>	830.60	16 5/16	3 11/16	414.3	92.9
A	55.00	63 3/8	14 3/16	1,609.7	360.9	A	880.00	15 7/8	3 9/16	403.2	90.4
A <sup>#</sup> /B <sup>b</sup>	58.30	61 9/16	13 13/16	1,563.7	350.6	A <sup>#</sup> /B <sup>b</sup>	932.30	15 3/8	3 7/16	390.5	87.6
B	61.70	59 13/16	13 7/16	1,519.2	340.6	B	987.80	14 15/16	3 3/8	379.4	85.1
C2	65.40	58 1/8	13 1/16	1,476.4	331.0	C6	1,046.50	14 1/2	3 1/4	368.3	82.6
C <sup>#</sup> /D <sup>b</sup>	69.30	56 7/16	12 5/8	1,433.5	321.4	C <sup>#</sup> /D <sup>b</sup>	1,108.70	14 1/8	3 3/16	358.8	80.4
D	73.41	54 7/8	12 5/16	1,393.8	312.5	D	1,174.61	13 11/16	3 1/16	347.7	77.9
D <sup>#</sup> /E <sup>b</sup>	77.80	53 5/16	11 15/16	1,354.1	303.6	D <sup>#</sup> /E <sup>b</sup>	1,244.50	13 5/16	3	338.1	75.8
E	82.40	51 13/16	11 5/8	1,316.0	295.1	E	1,318.50	12 15/16	2 7/8	328.6	73.7
F	87.30	50 5/16	11 1/4	1,277.9	286.5	F	1,397.00	12 9/16	2 13/16	319.1	71.5
F <sup>#</sup> /G <sup>b</sup>	92.50	48 7/8	10 15/16	1,241.4	278.3	F <sup>#</sup> /G <sup>b</sup>	1,480.00	12 3/16	2 3/4	309.6	69.4
G	98.01	47 1/2	10 5/8	1,206.5	270.5	G	1,568.00	11 7/8	2 11/16	301.6	67.6
G <sup>#</sup> /A <sup>b</sup>	103.80	46 1/8	10 5/16	1,171.6	262.7	G <sup>#</sup> /A <sup>b</sup>	1,661.20	11 9/16	2 9/16	293.7	65.8
A	110.00	44 13/16	10 1/16	1,138.2	255.2	A	1,760.00	11 3/16	2 1/2	284.2	63.7
A <sup>#</sup> /B <sup>b</sup>	116.50	43 9/16	9 3/4	1,106.5	248.1	A <sup>#</sup> /B <sup>b</sup>	1,864.60	10 7/8	2 7/16	276.2	61.9
B	123.50	42 5/16	9 1/2	1,074.7	241.0	B	1,975.50	10 9/16	2 3/8	268.3	60.2
C3	130.81	41 1/8	9 1/4	1,044.6	234.2	C7	2,093.00	10 1/4	2 5/16	260.4	58.4
C <sup>#</sup> /D <sup>b</sup>	138.60	39 15/16	8 15/16	1,014.4	227.4	C <sup>#</sup> /D <sup>b</sup>	2,217.40	10	2 1/4	254.0	56.9
D	146.80	38 13/16	8 11/16	985.8	221.0	D	2,349.20	9 11/16	2 3/16	246.1	55.2
D <sup>#</sup> /E <sup>b</sup>	155.60	37 11/16	8 7/16	957.3	214.6	D <sup>#</sup> /E <sup>b</sup>	2,489.01	9 7/16	2 1/8	239.7	53.7
E	164.80	36 5/8	8 3/16	930.3	208.6	E	2,637.00	9 1/8	2 1/16	231.8	52.0
F	174.61	35 9/16	8	903.3	202.5	F	2,794.00	8 7/8	2	225.4	50.5
F <sup>#</sup> /G <sup>b</sup>	185.00	34 9/16	7 3/4	877.9	196.8	F <sup>#</sup> /G <sup>b</sup>	2,960.00	8 5/8	1 15/16	219.1	49.1
G	196.00	33 9/16	7 1/2	852.5	191.1	G	3,136.00	8 3/8	1 7/8	212.7	47.7
G <sup>#</sup> /A <sup>b</sup>	207.70	32 5/8	7 5/16	828.7	185.8	G <sup>#</sup> /A <sup>b</sup>	3,322.41	8 1/8	1 13/16	206.4	46.3
A	220.00	31 11/16	7 1/8	804.9	180.5	A	3,520.00	7 15/16	1 3/4	201.6	45.2
A <sup>#</sup> /B <sup>b</sup>	233.10	30 13/16	6 15/16	782.6	175.5	A <sup>#</sup> /B <sup>b</sup>	3,729.20	7 11/16	1 3/4	195.3	43.8
B	246.90	29 15/16	6 11/16	760.4	170.5	B	3,951.00	7 1/2	1 11/16	190.5	42.7
C4	261.60	29 1/16	6 1/2	738.2	165.5	C8	4,186.00	7 1/4	1 5/8	184.2	41.3
C <sup>#</sup> /D <sup>b</sup>	277.20	28 1/4	6 5/16	717.6	160.9	C <sup>#</sup> /D <sup>b</sup>	4,434.81	7 1/16	1 9/16	179.4	40.2
D	293.70	27 7/16	6 1/8	696.9	156.2	D	4,698.40	6 7/8	1 9/16	174.6	39.2
D <sup>#</sup> /E <sup>b</sup>	311.10	26 5/8	6	676.3	151.6	D <sup>#</sup> /E <sup>b</sup>	4,978.00	6 11/16	1 1/2	169.9	38.1
E	329.61	25 7/8	5 13/16	657.2	147.3	E	5,274.00	6 1/2	1 7/16	165.1	37.0
F	349.30	25 1/8	5 5/8	638.2	143.1	F	5,588.00	6 5/16	1 7/16	160.3	35.9
F <sup>#</sup> /G <sup>b</sup>	370.00	24 7/16	5 1/2	620.7	139.2	F <sup>#</sup> /G <sup>b</sup>	5,920.00	6 1/8	1 3/8	155.6	34.9
G	392.00	23 3/4	5 5/16	603.3	135.2	G	6,272.00	5 15/16	1 5/16	150.8	33.8
G <sup>#</sup> /A <sup>b</sup>	415.30	23 1/16	5 3/16	585.8	131.3	G <sup>#</sup> /A <sup>b</sup>	6,644.80	5 3/4	1 5/16	146.1	32.7
A	440.00	22 7/16	5	569.9	127.8	A	7,040.00	5 5/8	1 1/4	142.9	32.0
A <sup>#</sup> /B <sup>b</sup>	466.20	21 3/4	4 7/8	552.5	123.9	A <sup>#</sup> /B <sup>b</sup>	7,458.40	5 7/16	1 1/4	138.1	31.0
B	493.91	21 3/16	4 3/4	538.2	120.7	B	7,902.01	5 5/16	1 3/16	134.9	30.3
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>						C9	8,367.01	5 1/8	1 1/8	130.2	29.2
Enter F	<span style="color: blue;">963.00</span>	15 1/8	3 3/8	384.2	86.1	<b>Convert</b>	<span style="color: blue;">2.000</span>	inches to	50.8	mm	
Enter L							<span style="color: blue;">25.4</span>	mm to	1	inches	

F=	88.57	50	11 3/16	1,270.0	284.7
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<http://leehite.org/Chimes.htm>