

# 1.5 inch Copper L (Blue) Chime Length Calculator for the C-9 Chord (C E G B<sup>b</sup> D) Inches A-440 For a Tube or Rod 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 in YELLOW (mm)**

OD inches = <b>1.625</b>		ID inches = <b>1.505</b>		Metal = <b>Copper</b> < Click to Select							
Wall = 0.060 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	91 3/8	20 1/2	2320.9	520.4	C5	523.30	22 13/16	5 1/8	579.4	129.9
E	41.21	81 3/8	18 1/4	2066.9	463.4	E	659.30	20 3/8	4 9/16	517.5	116.0
G	49.00	74 5/8	16 3/4	1895.5	425.0	G	784.00	18 11/16	4 3/16	474.7	106.4
A <sup>#</sup> /B <sup>b</sup>	58.30	68 7/16	15 5/16	1738.3	389.7	A <sup>#</sup> /B <sup>b</sup>	932.30	17 1/8	3 13/16	435.0	97.5
D2	73.41	61	13 11/16	1549.4	347.4	D6	1,174.61	15 1/4	3 7/16	387.4	86.8
Total feet =		31.4	Total cm=	957.1		Total feet required		7.9	Total cm=	239.4	
C2	65.40	64 5/8	14 1/2	1641.5	368.0	C6	1,046.50	16 1/8	3 5/8	409.6	91.8
E	82.40	57 9/16	12 7/8	1462.1	327.8	E	1,318.50	14 3/8	3 1/4	365.1	81.9
G	98.01	52 3/4	11 13/16	1339.9	300.4	G	1,568.00	13 3/16	2 15/16	335.0	75.1
A <sup>#</sup> /B <sup>b</sup>	116.50	48 3/8	10 7/8	1228.7	275.5	A <sup>#</sup> /B <sup>b</sup>	1,864.60	12 1/8	2 11/16	308.0	69.0
D3	146.80	43 1/8	9 11/16	1095.4	245.6	D7	2,349.20	10 3/4	2 7/16	273.1	61.2
Total feet required		22.2	Total cm=	676.8		Total feet required		5.5	Total cm=	169.1	
C3	130.81	45 11/16	10 1/4	1160.5	260.2	C7	2,093.00	11 7/16	2 9/16	290.5	65.1
E	164.80	40 11/16	9 1/8	1033.5	231.7	E	2,637.00	10 3/16	2 5/16	258.8	58.0
G	196.00	37 5/16	8 3/8	947.7	212.5	G	3,136.00	9 5/16	2 1/16	236.5	53.0
A <sup>#</sup> /B <sup>b</sup>	233.10	34 1/4	7 11/16	870.0	195.0	A <sup>#</sup> /B <sup>b</sup>	3,729.20	8 9/16	1 15/16	217.5	48.8
D4	293.70	30 1/2	6 13/16	774.7	173.7	D8	4,698.40	7 5/8	1 11/16	193.7	43.4
Total feet required		15.7	Total cm=	478.6		Total feet required		3.9	Total cm=	119.7	
C4	261.60	32 5/16	7 1/4	820.7	184.0						
E	329.61	28 3/4	6 7/16	730.3	163.7						
G	392.00	26 3/8	5 15/16	669.9	150.2						
A <sup>#</sup> /B <sup>b</sup>	466.20	24 3/16	5 7/16	614.4	137.7						
D5	587.30	21 9/16	4 13/16	547.7	122.8						
Total feet required		11.1	Total cm=	338.3							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	35 1/4	7 7/8	895.4	200.7	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
		Enter L ↓					<b>60</b>	mm to	2 3/8	inches	
F=	587.06	<b>21 9/16</b>	4 13/16	547.7	122.8	<a href="https://leehite.org/Chimes.htm">https://leehite.org/Chimes.htm</a>					