

## 2.5 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>2.625</b>		ID inches = <b>2.465</b>		Metal = <b>Copper</b> < Click to Select							
Wall = 0.080 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	116 1/2	26 1/8	2959.1	663.4	C5	523.30	29 1/8	6 1/2	739.8	165.9
E	41.21	103 3/4	23 1/4	2635.3	590.8	E	659.30	25 15/16	5 13/16	658.8	147.7
G	49.00	95 3/16	21 5/16	2417.8	542.1	G	784.00	23 13/16	5 5/16	604.8	135.6
A <sup>#</sup> /B <sup>b</sup>	58.30	87 1/4	19 9/16	2216.2	496.9	A <sup>#</sup> /B <sup>b</sup>	932.30	21 13/16	4 7/8	554.0	124.2
D2	73.41	77 3/4	17 7/16	1974.9	442.8	D6	1,174.61	19 7/16	4 3/8	493.7	110.7
Total feet =		40.0	Total cm=	1220.3		Total feet required		10.0	Total cm=	305.1	
C2	65.40	82 3/8	18 7/16	2092.3	469.1	C6	1,046.50	20 9/16	4 5/8	522.3	117.1
E	82.40	73 3/8	16 7/16	1863.7	417.8	E	1,318.50	18 3/8	4 1/8	466.7	104.6
G	98.01	67 5/16	15 1/16	1709.7	383.3	G	1,568.00	16 13/16	3 3/4	427.0	95.7
A <sup>#</sup> /B <sup>b</sup>	116.50	61 11/16	13 13/16	1566.9	351.3	A <sup>#</sup> /B <sup>b</sup>	1,864.60	15 7/16	3 7/16	392.1	87.9
D3	146.80	55	12 5/16	1397.0	313.2	D7	2,349.20	13 3/4	3 1/16	349.3	78.3
Total feet required		28.3	Total cm=	863.0		Total feet required		7.1	Total cm=	215.7	
C3	130.81	58 1/4	13 1/16	1479.6	331.7	C7	2,093.00	14 9/16	3 1/4	369.9	82.9
E	164.80	51 7/8	11 5/8	1317.6	295.4	E	2,637.00	13	2 15/16	330.2	74.0
G	196.00	47 9/16	10 11/16	1208.1	270.9	G	3,136.00	11 7/8	2 11/16	301.6	67.6
A <sup>#</sup> /B <sup>b</sup>	233.10	43 5/8	9 3/4	1108.1	248.4	A <sup>#</sup> /B <sup>b</sup>	3,729.20	10 15/16	2 7/16	277.8	62.3
D4	293.70	38 7/8	8 11/16	987.4	221.4	D8	4,698.40	9 11/16	2 3/16	246.1	55.2
Total feet required		20.0	Total cm=	610.1		Total feet required		5.0	Total cm=	152.6	
C4	261.60	41 3/16	9 1/4	1046.2	234.5						
E	329.61	36 11/16	8 1/4	931.9	208.9						
G	392.00	33 5/8	7 9/16	854.1	191.5						
A <sup>#</sup> /B <sup>b</sup>	466.20	30 7/8	6 15/16	784.2	175.8						
D5	587.30	27 1/2	6 3/16	698.5	156.6						
Total feet required		14.2	Total cm=	431.5							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	44 15/16	10 1/16	1141.4	255.9	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
		Enter L ↓					<b>60</b>	mm to	2 3/8	inches	
F=	954.44	<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>					