

2 inch Copper L (Blue) Chime Length Calculator for the C-9 Chord (C E G B^b 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 = 2.125		ID inches = 1.985		Metal = Copper < Click to Select							
Wall = 0.070 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	104 11/16	23 1/2	2659.1	596.2	C5	523.30	26 3/16	5 7/8	665.2	149.1
E	41.21	93 1/4	20 15/16	2368.6	531.0	E	659.30	23 5/16	5 1/4	592.1	132.8
G	49.00	85 1/2	19 3/16	2171.7	486.9	G	784.00	21 3/8	4 13/16	542.9	121.7
A [#] /B ^b	58.30	78 3/8	17 9/16	1990.7	446.3	A [#] /B ^b	932.30	19 5/8	4 3/8	498.5	111.8
D2	73.41	69 7/8	15 11/16	1774.8	397.9	D6	1,174.61	17 7/16	3 15/16	442.9	99.3
Total feet = 36.0		Total cm= 1096.5		Total feet required 9.0		Total cm= 274.2					
C2	65.40	74	16 9/16	1879.6	421.4	C6	1,046.50	18 1/2	4 1/8	469.9	105.4
E	82.40	65 15/16	14 13/16	1674.8	375.5	E	1,318.50	16 1/2	3 11/16	419.1	94.0
G	98.01	60 7/16	13 9/16	1535.1	344.2	G	1,568.00	15 1/8	3 3/8	384.2	86.1
A [#] /B ^b	116.50	55 7/16	12 7/16	1408.1	315.7	A [#] /B ^b	1,864.60	13 7/8	3 1/8	352.4	79.0
D3	146.80	49 7/16	11 1/16	1255.7	281.5	D7	2,349.20	12 3/8	2 3/4	314.3	70.5
Total feet required 25.4		Total cm= 775.3		Total feet required 6.4		Total cm= 194.0					
C3	130.81	52 5/16	11 3/4	1328.7	297.9	C7	2,093.00	13 1/16	2 15/16	331.8	74.4
E	164.80	46 5/8	10 7/16	1184.3	265.5	E	2,637.00	11 11/16	2 5/8	296.9	66.6
G	196.00	42 3/4	9 9/16	1085.9	243.4	G	3,136.00	10 11/16	2 3/8	271.5	60.9
A [#] /B ^b	233.10	39 3/16	8 13/16	995.4	223.2	A [#] /B ^b	3,729.20	9 13/16	2 3/16	249.2	55.9
D4	293.70	34 15/16	7 13/16	887.4	199.0	D8	4,698.40	8 3/4	1 15/16	222.3	49.8
Total feet required 18.0		Total cm= 548.2		Total feet required 4.5		Total cm= 137.2					
C4	261.60	37	8 5/16	939.8	210.7						
E	329.61	33	7 3/8	838.2	187.9						
G	392.00	30 1/4	6 13/16	768.4	172.3						
A [#] /B ^b	466.20	27 3/4	6 1/4	704.9	158.0						
D5	587.30	24 11/16	5 9/16	627.1	140.6						
Total feet required 12.7		Total cm= 387.8									
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	40 3/8	9 1/16	1025.5	229.9	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	770.75	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					