

4 inch Steel EMT Chime Length Calculator for the C-9 Chord (C E G B^b D) Inches version

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 = 4.500		ID inches = 4.334		Metal = Aluminum < Click to Select							
Wall = 0.083 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	183 3/4	41 3/16	4667.3	1046.4	C5	523.30	45 15/16	10 5/16	1,166.8	261.6
E	41.21	163 11/16	36 11/16	4157.7	932.1	E	659.30	40 15/16	9 3/16	1,039.8	233.1
G	49.00	150 1/8	33 11/16	3813.2	854.9	G	784.00	37 9/16	8 7/16	954.1	213.9
A [#] /B ^b	58.30	137 5/8	30 7/8	3495.7	783.7	A [#] /B ^b	932.30	34 7/16	7 3/4	874.7	196.1
D2	73.41	122 5/8	27 1/2	3114.7	698.3	D6	1,174.61	30 11/16	6 7/8	779.5	174.8
Total feet = 63.2		Total cm= 1924.8		Total feet required 15.8		Total cm= 481.5					
C2	65.40	129 15/16	29 1/8	3300.4	740.0	C6	1,046.50	32 1/2	7 5/16	825.5	185.1
E	82.40	115 3/4	25 15/16	2940.1	659.2	E	1,318.50	28 15/16	6 1/2	735.0	164.8
G	98.01	106 1/8	23 13/16	2695.6	604.3	G	1,568.00	26 9/16	5 15/16	674.7	151.3
A [#] /B ^b	116.50	97 3/8	21 13/16	2473.3	554.5	A [#] /B ^b	1,864.60	24 5/16	5 7/16	617.5	138.5
D3	146.80	86 3/4	19 7/16	2203.5	494.0	D7	2,349.20	21 11/16	4 7/8	550.9	123.5
Total feet required 44.7		Total cm= 1361.3		Total feet required 11.2		Total cm= 340.4					
C3	130.81	91 7/8	20 5/8	2333.6	523.2	C7	2,093.00	23	5 3/16	584.2	131.0
E	164.80	81 7/8	18 3/8	2079.6	466.3	E	2,637.00	20 7/16	4 9/16	519.1	116.4
G	196.00	75 1/16	16 13/16	1906.6	427.5	G	3,136.00	18 3/4	4 3/16	476.3	106.8
A [#] /B ^b	233.10	68 13/16	15 7/16	1747.8	391.9	A [#] /B ^b	3,729.20	17 3/16	3 7/8	436.6	97.9
D4	293.70	61 5/16	13 3/4	1557.3	349.2	D8	4,698.40	15 5/16	3 7/16	388.9	87.2
Total feet required 31.6		Total cm= 962.5		Total feet required 7.9		Total cm= 240.5					
C4	261.60	65	14 9/16	1651.0	370.2						
E	329.61	57 7/8	13	1470.0	329.6						
G	392.00	53 1/16	11 7/8	1347.8	302.2						
A [#] /B ^b	466.20	48 11/16	10 15/16	1236.7	277.3						
D5	587.30	43 3/8	9 3/4	1101.7	247.0						
Total feet required 22.3		Total cm= 680.7									
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	70 7/8	15 7/8	1800.2	403.6	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	2375.26	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					