

2 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 = 2.197		ID inches = 2.067		Metal = Steel < Click to Select							
Wall = 0.065 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	128 7/8	28 7/8	3273.4	733.9	C5	523.30	32 3/16	7 3/16	817.6	183.3
E	41.21	114 13/16	25 3/4	2916.2	653.8	E	659.30	28 11/16	6 7/16	728.7	163.4
G	49.00	105 1/4	23 5/8	2673.4	599.4	G	784.00	26 5/16	5 7/8	668.3	149.8
A [#] /B ^b	58.30	96 1/2	21 5/8	2451.1	549.5	A [#] /B ^b	932.30	24 1/8	5 7/16	612.8	137.4
D2	73.41	86	19 1/4	2184.4	489.7	D6	1,174.61	21 1/2	4 13/16	546.1	122.4
Total feet =		44.3	Total cm=	1349.9		Total feet required		11.1	Total cm=	337.3	
C2	65.40	91 1/8	20 7/16	2314.6	518.9	C6	1,046.50	22 3/4	5 1/8	577.9	129.6
E	82.40	81 3/16	18 3/16	2062.2	462.3	E	1,318.50	20 5/16	4 9/16	515.9	115.7
G	98.01	74 7/16	16 11/16	1890.7	423.9	G	1,568.00	18 5/8	4 3/16	473.1	106.1
A [#] /B ^b	116.50	68 1/4	15 5/16	1733.6	388.7	A [#] /B ^b	1,864.60	17 1/16	3 13/16	433.4	97.2
D3	146.80	60 13/16	13 5/8	1544.6	346.3	D7	2,349.20	15 3/16	3 3/8	385.8	86.5
Total feet required		31.3	Total cm=	954.6		Total feet required		7.8	Total cm=	238.6	
C3	130.81	64 7/16	14 7/16	1636.7	367.0	C7	2,093.00	16 1/8	3 5/8	409.6	91.8
E	164.80	57 3/8	12 7/8	1457.3	326.7	E	2,637.00	14 3/8	3 1/4	365.1	81.9
G	196.00	52 5/8	11 13/16	1336.7	299.7	G	3,136.00	13 3/16	2 15/16	335.0	75.1
A [#] /B ^b	233.10	48 1/4	10 13/16	1225.6	274.8	A [#] /B ^b	3,729.20	12 1/16	2 11/16	306.4	68.7
D4	293.70	43	9 5/8	1092.2	244.9	D8	4,698.40	10 3/4	2 7/16	273.1	61.2
Total feet required		22.1	Total cm=	674.8		Total feet required		5.5	Total cm=	168.9	
C4	261.60	45 9/16	10 3/16	1157.3	259.5						
E	329.61	40 9/16	9 1/8	1030.3	231.0						
G	392.00	37 3/16	8 5/16	944.6	211.8						
A [#] /B ^b	466.20	34 1/8	7 5/8	866.8	194.3						
D5	587.30	30 7/16	6 13/16	773.1	173.3						
Total feet required		15.7	Total cm=	477.2							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	49 11/16	11 1/8	1262.1	283.0	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	1167.87	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					