

1.5 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 = 1.740		ID inches = 1.610		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	114 1/4	25 5/8	2902.0	650.6	C5	523.30	28 9/16	6 3/8	725.5	162.7
E	41.21	101 3/4	22 13/16	2584.5	579.4	E	659.30	25 7/16	5 11/16	646.1	144.9
G	49.00	93 5/16	20 15/16	2370.1	531.4	G	784.00	23 5/16	5 1/4	592.1	132.8
A [#] /B ^b	58.30	85 9/16	19 3/16	2173.3	487.3	A [#] /B ^b	932.30	21 3/8	4 13/16	542.9	121.7
D2	73.41	76 1/4	17 1/8	1936.8	434.2	D6	1,174.61	19 1/16	4 1/4	484.2	108.6
Total feet = 39.3		Total cm= 1196.7		Total feet required 9.8		Total cm= 299.1					
C2	65.40	80 3/4	18 1/8	2051.1	459.8	C6	1,046.50	20 3/16	4 1/2	512.8	115.0
E	82.40	71 15/16	16 1/8	1827.2	409.7	E	1,318.50	18	4 1/16	457.2	102.5
G	98.01	66	14 13/16	1676.4	375.8	G	1,568.00	16 1/2	3 11/16	419.1	94.0
A [#] /B ^b	116.50	60 1/2	13 9/16	1536.7	344.5	A [#] /B ^b	1,864.60	15 1/8	3 3/8	384.2	86.1
D3	146.80	53 15/16	12 1/16	1370.0	307.2	D7	2,349.20	13 1/2	3	342.9	76.9
Total feet required 27.8		Total cm= 846.1		Total feet required 6.9		Total cm= 211.6					
C3	130.81	57 1/8	12 13/16	1451.0	325.3	C7	2,093.00	14 1/4	3 3/16	362.0	81.1
E	164.80	50 7/8	11 3/8	1292.2	289.7	E	2,637.00	12 3/4	2 7/8	323.9	72.6
G	196.00	46 11/16	10 7/16	1185.9	265.9	G	3,136.00	11 11/16	2 5/8	296.9	66.6
A [#] /B ^b	233.10	42 13/16	9 5/8	1087.4	243.8	A [#] /B ^b	3,729.20	10 11/16	2 3/8	271.5	60.9
D4	293.70	38 1/8	8 9/16	968.4	217.1	D8	4,698.40	9 1/2	2 1/8	241.3	54.1
Total feet required 19.6		Total cm= 598.5		Total feet required 4.9		Total cm= 149.5					
C4	261.60	40 3/8	9 1/16	1025.5	229.9						
E	329.61	36	8 1/16	914.4	205.0						
G	392.00	33	7 3/8	838.2	187.9						
A [#] /B ^b	466.20	30 1/4	6 13/16	768.4	172.3						
D5	587.30	26 15/16	6 1/16	684.2	153.4						
Total feet required 13.9		Total cm= 423.1									
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	44 1/16	9 7/8	1119.2	250.9	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	917.79	21 9/16	4 13/16	547.7	122.8	https://leehite.org/Chimes.htm					