

3/4 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 = 0.922		ID inches = 0.824		Metal = Steel < Click to Select							
Wall = 0.049 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	82 1/2	18 1/2	2095.5	469.8	C5	523.30	20 5/8	4 5/8	523.9	117.5
E	41.21	73 1/2	16 1/2	1866.9	418.6	E	659.30	18 3/8	4 1/8	466.7	104.6
G	49.00	67 3/8	15 1/8	1711.3	383.7	G	784.00	16 7/8	3 13/16	428.6	96.1
A [#] /B ^b	58.30	61 13/16	13 7/8	1570.0	352.0	A [#] /B ^b	932.30	15 7/16	3 7/16	392.1	87.9
D2	73.41	55 1/16	12 3/8	1398.6	313.6	D6	1,174.61	13 3/4	3 1/16	349.3	78.3
Total feet =		28.4	Total cm=	864.2		Total feet required		7.1	Total cm=	216.1	
C2	65.40	58 5/16	13 1/16	1481.1	332.1	C6	1,046.50	14 9/16	3 1/4	369.9	82.9
E	82.40	52	11 11/16	1320.8	296.1	E	1,318.50	13	2 15/16	330.2	74.0
G	98.01	47 5/8	10 11/16	1209.7	271.2	G	1,568.00	11 15/16	2 11/16	303.2	68.0
A [#] /B ^b	116.50	43 11/16	9 13/16	1109.7	248.8	A [#] /B ^b	1,864.60	10 15/16	2 7/16	277.8	62.3
D3	146.80	38 15/16	8 3/4	989.0	221.7	D7	2,349.20	9 3/4	2 3/16	247.7	55.5
Total feet required		20.0	Total cm=	611.0		Total feet required		5.0	Total cm=	152.9	
C3	130.81	41 1/4	9 1/4	1047.8	234.9	C7	2,093.00	10 5/16	2 5/16	261.9	58.7
E	164.80	36 3/4	8 1/4	933.5	209.3	E	2,637.00	9 3/16	2 1/16	233.4	52.3
G	196.00	33 11/16	7 9/16	855.7	191.8	G	3,136.00	8 7/16	1 7/8	214.3	48.0
A [#] /B ^b	233.10	30 7/8	6 15/16	784.2	175.8	A [#] /B ^b	3,729.20	7 3/4	1 3/4	196.9	44.1
D4	293.70	27 1/2	6 3/16	698.5	156.6	D8	4,698.40	6 7/8	1 9/16	174.6	39.2
Total feet required		14.2	Total cm=	432.0		Total feet required		3.5	Total cm=	108.1	
C4	261.60	29 3/16	6 9/16	741.4	166.2						
E	329.61	26	5 13/16	660.4	148.1						
G	392.00	23 13/16	5 5/16	604.8	135.6						
A [#] /B ^b	466.20	21 7/8	4 7/8	555.6	124.6						
D5	587.30	19 7/16	4 3/8	493.7	110.7						
Total feet required		10.0	Total cm=	305.6							
Calculate Length or Frequency for ID & OD entered above											
Enter F=	220.00	31 13/16	7 1/8	808.0	181.2	Convert	2.000	inches to	50.8	mm	
		Enter L ↓					60	mm to	2 3/8	inches	
F=	478.74	21 9/16	4 13/16	547.7	122.8	http://leehite.org/Chimes.htm					