

1.25 inch Steel EMT Chime Length Calculator for the C-9 Chord (C E G B<sup>b</sup> 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 = <b>1.510</b>		ID inches = <b>1.380</b>		Metal = <b>Steel</b> < 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	106 1/8	23 13/16	2695.6	604.3	C5	523.30	26 1/2	5 15/16	673.1	150.9
E	41.21	94 1/2	21 3/16	2400.3	538.1	E	659.30	23 5/8	5 5/16	600.1	134.5
G	49.00	86 11/16	19 7/16	2201.9	493.7	G	784.00	21 11/16	4 7/8	550.9	123.5
A <sup>#</sup> /B <sup>b</sup>	58.30	79 1/2	17 13/16	2019.3	452.7	A <sup>#</sup> /B <sup>b</sup>	932.30	19 7/8	4 7/16	504.8	113.2
D2	73.41	70 13/16	15 7/8	1798.6	403.3	D6	1,174.61	17 11/16	3 15/16	449.3	100.7
Total feet =		36.5	Total cm=	1111.6		Total feet required		9.1	Total cm=	277.8	
C2	65.40	75 1/16	16 13/16	1906.6	427.5	C6	1,046.50	18 3/4	4 3/16	476.3	106.8
E	82.40	66 7/8	15	1698.6	380.8	E	1,318.50	16 11/16	3 3/4	423.9	95.0
G	98.01	61 5/16	13 3/4	1557.3	349.2	G	1,568.00	15 5/16	3 7/16	388.9	87.2
A <sup>#</sup> /B <sup>b</sup>	116.50	56 1/4	12 5/8	1428.8	320.3	A <sup>#</sup> /B <sup>b</sup>	1,864.60	14 1/16	3 1/8	357.2	80.1
D3	146.80	50 1/16	11 1/4	1271.6	285.1	D7	2,349.20	12 1/2	2 13/16	317.5	71.2
Total feet required		25.8	Total cm=	786.3		Total feet required		6.4	Total cm=	196.4	
C3	130.81	53 1/16	11 7/8	1347.8	302.2	C7	2,093.00	13 1/4	3	336.6	75.5
E	164.80	47 1/4	10 9/16	1200.2	269.1	E	2,637.00	11 13/16	2 5/8	300.0	67.3
G	196.00	43 5/16	9 11/16	1100.1	246.7	G	3,136.00	10 13/16	2 7/16	274.6	61.6
A <sup>#</sup> /B <sup>b</sup>	233.10	39 3/4	8 15/16	1009.7	226.4	A <sup>#</sup> /B <sup>b</sup>	3,729.20	9 15/16	2 1/4	252.4	56.6
D4	293.70	35 7/16	7 15/16	900.1	201.8	D8	4,698.40	8 7/8	2	225.4	50.5
Total feet required		18.2	Total cm=	555.8		Total feet required		4.6	Total cm=	138.9	
C4	261.60	37 1/2	8 7/16	952.5	213.6						
E	329.61	33 7/16	7 1/2	849.3	190.4						
G	392.00	30 5/8	6 7/8	777.9	174.4						
A <sup>#</sup> /B <sup>b</sup>	466.20	28 1/8	6 5/16	714.4	160.2						
D5	587.30	25 1/16	5 5/8	636.6	142.7						
Total feet required		12.9	Total cm=	393.1							
<b>Calculate Length or Frequency for ID &amp; OD entered above</b>											
Enter F=	<b>220.00</b>	40 15/16	9 3/16	1039.8	233.1	<b>Convert</b>	<b>2.000</b>	inches to	50.8	mm	
	Enter L ↓						<b>60</b>	mm to	2 3/8	inches	
F=	791.97	<b>21 9/16</b>	4 13/16	547.7	122.8	<a href="https://leehite.org/Chimes.htm">https://leehite.org/Chimes.htm</a>					