

ModEkAl

Table of the Modification

Piano Keys	Tempered tuning frequencies (Hz)	New tuning frequencies for each string (Hz)		Material for hammers	Other
A ₀	27.50	28.00		wood	
A [#] ₀ /B ^b ₀	29.14	20.70		Metal	Bell-Like
B ₀	30.87	31.15		wood	
I octave					
C ₁	32.70	33.60			Overtone.
C [#] ₁ /D ^b ₁	34.65	32.00			Overtone.
D ₁	36.71	same			
D [#] ₁ /E ^b ₁	38.89	37.76			Overtone.
E ₁	41.20	39.50			Overtone.
F ₁	43.65	45.66		wood	
F [#] ₁ /G ^b ₁	46.25	same		wood	
G ₁	49.00	50.10		wood	
G [#] ₁ /A ^b ₁	51.91	51.19		wood	
A ₁ (2 strings)	55.00	same		rubber	
A [#] ₁ /B ^b ₁	58.27	same	58	rubber	
B ₁	61.74	same	61	rubber	
II octave					
C ₂	65.41	same	64.50	rubber	
C [#] ₂ /D ^b ₂	69.30	same	70.30	rubber	
D ₂	73.42	75.00			Overtone
D [#] ₂ /E ^b ₂	77.78	73.42			Overtone
E ₂	82.41	80			Overtone
F ₂	87.31	85	same		
F [#] ₂ /G ^b ₂	92.50	90.80			Overtone
G ₂	98.00	95.76			Overtone
G [#] ₂ /A ^b ₂	103.83	100.59			Overtone
A ₂	110.00	105	same	cardboard	
A [#] ₂ /B ^b ₂	116.54	same	114.69	cardboard	
B ₂	123.47	125.59	122.00	cardboard	
III octave					
C ₃	130.81	same	133.40	cardboard	

C [♯] ₃ /D ^b ₃ (3 strings)	138.59	same			wood	
D ₃	146.83	148	150	152	wood	
D [♯] ₃ /E ^b ₃	155.56	153	158	160	wood	
E ₃	164.81	same			wood	
F ₃	174.61	192				
F [♯] ₃ /G ^b ₃	185.00	186				
G ₃	196.00	172				
G [♯] ₃ /A ^b ₃	207.65	204	same	210		
A ₃	220.00	220.00				
A [♯] ₃ /B ^b ₃	233.08	227.85				
B ₃	246.94	240.00				
IV octave						
C ₄	261.63	265	same	258	leather	
C [♯] ₄ /D ^b ₄	277.18	274	same	280	leather	
D ₄	293.66	290	300	295	leather	
D [♯] ₄ /E ^b ₄	311.13	same	305	same	leather	
E ₄	329.63	same	323	337	leather	
F ₄	349.23	342	same	355	leather	
F [♯] ₄ /G ^b ₄	369.99	375	364	same	leather	
G ₄	392.00	415				
G [♯] ₄ /A ^b ₄	415.30	400				
A ₄	440.00	435	same	445		
A [♯] ₄ /B ^b ₄	466.16	455				
B ₄	493.88	480				
V octave						
C ₅	523.25	same			Metal	
C [♯] ₅ /D ^b ₅	554.37	same			Metal	
D ₅	587.33	600			Metal	
D [♯] ₅ /E ^b ₅	622.25	same			Metal	
E ₅	659.25	660	650	679	Metal	
F ₅	698.46	740				
F [♯] ₅ /G ^b ₅	739.99	720				
G _{5s}	783.99	769	same	799		
G [♯] ₅ /A ^b ₅	830.61	819.23				
A ₅	880.00	850.47				
A [♯] ₅ /B ^b ₅	932.33	same			wood	
B ₅	987.77	same			wood	

VI octave						
C ₆	1046.50	same			wood	
C [#] ₆ /D ^b ₆	1108.73	same			wood	
D ₆	1174.66	1254				
D [#] ₆ /E ^b ₆ (without dampers)	1244.51	1200				
E ₆	1318.51	1288	same	1325		
F ₆	1396.91	1400				
F [#] ₆ /G ^b ₆	1479.98	1480				
G ₆	1567.98	1480	1500	same	rubber	
G [#] ₆ /A ^b ₆	1661.22	1470	1640	1765	rubber	
A ₆	1760.00	1661	1740	1800	rubber	
A [#] ₆ /B ^b ₆	1864.66	same	1900	1927	rubber	
B ₆	1975.53		2116			
VII octave						
C ₇	2093.00		2000			
C [#] ₇ /D ^b ₇	2217.46	2157	same	2277		
D ₇	2349.32		2297			
D [#] ₇ /E ^b ₇	2489.02		2362			
E ₇	2637.02		same		Metal	
F ₇	2793.83		same		Metal	
F [#] ₇ /G ^b ₇	2959.96		same		Metal	
G ₇	3135.96		same		Metal	
G [#] ₇ /A ^b ₇	3322.44		same		Metal	
A ₇	3520.00		same		Metal	