

13-key tenoroon, ANONYMOUS (6), Paris, ca. 1860

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	948.5		
Standing length to wing joint	631		
Wing joint length	356		
Wing joint - tenon length	43.5		
Butt joint length	319.5		
Long joint length	428.5		
Long joint - south tenon length	48.8		
Long joint - north tenon length	32.7		
Bell length	280		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	160		
Wing - tone hole 2 distance from north	191		
Wing - tone hole 3 distance from north	220		
Butt - tone hole 4 distance from north	65.5		
Butt - tone hole 5 distance from north	93.4		
Butt - tone hole 6 distance from north	121.7		
Butt - tone hole F distance from north	244		
Butt - tone hole E distance from north	97.6		
Butt - tone hole Ab distance from north	263		
Butt - tone hole F# distance from north	182		
Long joint - tone hole D distance from north	367		
Long joint - tone hole Eb distance from north	326		
Long joint - tone hole C distance from north	232		
Long joint - tone hole Bb distance from north	72.5		
Wing - major axis at tone hole 1	41.4		
Wing - major axis at tone hole 2	41		
Wing - major axis at tone hole 3	39.9		
Butt - major axis (side to side) at tone hole 4	56.8		
Butt - minor axis (front to back) at tone hole 4	46.3		
Butt - major axis (side to side) at tone hole 5	56.5		
Butt - minor axis (front to back) at tone hole 5	46.2		
Butt - major axis (side to side) at tone hole 6	55.8		
Butt - minor axis (front to back) at tone hole 6	46.1		
Butt - major axis (side to side) at tone hole F	51.7		
Butt - minor axis (front to back) at tone hole F	41		
Butt - major axis (side to side) at tone hole E	56.8		
Butt - minor axis (front to back) at tone hole E	46.5		
Butt - major axis (side to side) of the bottom butt ellipse	48		
Butt - minor axis (front to back) of the bottom butt ellipse	36.5		
Butt - major axis (side to side) of the top butt ellipse	56		

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Butt - minor axis (front to back) of the top butt ellipse	43.5		
Butt - cork major axis (side to side)	35.4		
Butt - cork minor axis (front to back)	20.6		
Long joint - minor axis (front to back) at tone hole D	32		Platform 3.4
Long joint - major axis (side to side) at tone hole D	31.1		
Long joint - minor axis (front to back) at tone hole Eb	34.2		
Long joint - major axis (side to side) at tone hole Eb	32.5		
Long joint - minor axis (front to back) at tone hole C	36.2		
Long joint - major axis (side to side) at tone hole C	34		
Long joint - minor axis (front to back) at tone hole Bb	37.2		
Long joint - major axis (side to side) at tone hole Bb	36.9		
Tone hole angle, \emptyset, length			
Wing - tone hole 1 angle	45° North		
Wing - tone hole 2 angle	37° South		
Wing - tone hole 3 angle	51° South		
Wing - tone hole 1 approx. \emptyset	3.3		
Wing - tone hole 2 approx. \emptyset	3.9		
Wing - tone hole 3 approx. \emptyset	4		
Wing - tone hole 1 approx. length	33		
Wing - tone hole 2 approx. length	31.6		
Wing - tone hole 3 approx. length	34.6		
Butt - tone hole 4 angle	28.5° North		
Butt - tone hole 5 angle	22.5° South		
Butt - tone hole 6 angle	43.5° South		
Butt - tone hole E angle	33.5° South		
Butt - tone hole 4 approx. \emptyset	5.3		
Butt - tone hole 5 approx. \emptyset	5.1		
Butt - tone hole 6 approx. \emptyset	4.1		
Butt - tone hole E approx. \emptyset	6.5		
Butt - tone hole 4 approx. length	24		
Butt - tone hole 5 approx. length	21.9		
Butt - tone hole 6 approx. length	27.3		
Butt - tone hole E approx. length	17.3		
Long joint - tone hole C angle	0		
Long joint - tone hole C \emptyset	x		Not possible
Long joint - tone hole C approx. length	x		Not possible
BASIC - INSIDE			
Inner bore length			
Bore length	1564.5		
Wing bore length	346		
Butt - small bore length	299		
Butt - big bore length	299		
Butt - small bore socket length	43.6	44	
Butt - big bore socket length	49.2	49.4	
Butt - small bore beginning of septum	281		
Butt - big bore beginning of septum	281		

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Long joint length	429		
Bell length	281.5		
Inner bore beginning \emptyset (not socket!)	Min.	Max.	
Wing bore \emptyset north	9.9		
Wing bore \emptyset south	12.2	12.4	
Bocal well length	23		
Butt - small bore \emptyset north	14.2		
Butt - big bore \emptyset north	19.8		
Long joint \emptyset north	24.7		
Long joint \emptyset south	19		
Bell bore \emptyset north	26.2		
Bell bore \emptyset south	26.7	27	
Bell socket length	32.2	32.6	
Bocal \emptyset at the beginning	No bocal		
Bocal thickness at the beginning	No bocal		
Bocal \emptyset at the tenon	No bocal		
Bocal thickness at the tenon	No bocal		
Bocal length (along top)	No bocal		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	4.8	5	
Bocal well ferrule thickness	0.6		
Wing - tenon thickness	3.6		
Wing - tenon northern extern. \emptyset	20.8		
wing - tenon southern extern. \emptyset	x		
Wing - tone hole A distance from north	69.5		
Wing - tone hole A angle	x		
Wing - tone hole A approx. \emptyset	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	40.5		
Wing - tone hole C angle	x		
Wing - tone hole C extern. \emptyset	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	2.8		Without 1.6
Butt - small socket thickness with ferrule	3.1		Without 2.1
Butt - top ferrule thickness	0.7		
Minimum wall thickness between butt sockets	1.7		
Butt - wood space between corks - bottom	one cork		
Butt - big bore cork \emptyset - bottom	20.8		
Butt - small bore cork \emptyset - bottom	18.4		
Butt - wood wall between cork/front - small bore	17.4		Without ferrule
Butt - wood wall between cork/front - big bore	6		Without ferrule
Butt - wood wall between cork/back - small bore	6.2		Without ferrule
Butt - wood wall between cork/back - big bore	6		Without ferrule
Wood wall between cork/side - small bore	5.9		Without ferrule
Wood wall between cork/side - big bore	4.7		Without ferrule
Butt - bottom ferrule thickness	0.5		

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Long joint - south tenon thickness	3.5		
Long joint - south tenon northern extern. \emptyset	27.2		
Long joint - south tenon southern extern. \emptyset	26		
Long joint - north tenon thickness	3		
Long joint - north tenon northern extern. \emptyset	30.9		
Long joint - north tenon southern extern. \emptyset	31.8		
Bell socket thickness with brass	2.9		Without 1.9
Brass thickness of the bell ferrule	0.6		
Bell ferrule height	31		
Tone hole angle, \emptyset, length			
Butt - tone hole Ab angle	X		
Butt - tone hole F angle	X		
Butt - tone hole F# angle	X		
Butt - tone hole Ab approx. \emptyset	7.7		
Butt - tone hole F approx. \emptyset	7.8		
Butt - tone hole F# approx. \emptyset	5.7		
Butt - tone hole Ab approx. length	x		
Butt - tone hole F approx. length	x		
Butt - tone hole F# approx. length	x		
Long joint - tone hole D angle	x		
Long joint - tone hole Eb angle	x		
Long joint - tone hole Bb angle	x		
Long joint - tone hole D approx. \emptyset	9.2		
Long joint - tone hole Eb approx. \emptyset	x		
Long joint - tone hole Bb approx. \emptyset	10.4		
Long joint - tone hole D approx. length	x		
Long joint - tone hole Eb approx. length	x		
Long joint - tone hole Bb approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	221		
Wing - tone hole 2 distance from south	147		
Wing - tone hole 3 distance from south	110		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	53		
Butt - tone hole 5 distance from north	100		
Butt - tone hole 6 distance from north	137		
Butt - tone hole Ab distance from north	x		
Butt - tone hole F distance from north	x		
Butt - tone hole F# distance from north	187		
Butt - tone hole E distance from north	16		
Long joint - tone hole D distance from north	365		Approx.
Long joint- tone hole Eb distance from north	325		Approx.
Long joint - tone hole C distance from north	235		Approx.
Long joint - hole Bb distance from north	72		Approx.
Bell - vent hole distance from north	x		

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EXTRAS			
Butt - tone hole Bb (front) distance from north	183		
Long joint - tone hole C# low distance from north	129.5		
Wing - tone hole C# distance from north	252		