

4-key tenoroon, John BLOCKLEY, Ullesthorpe/Leicestershire (England), ca. 1780

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	830		
Standing length to wing joint	637		
Wing joint length	384		
Wing joint - tenon length	36		
Butt joint length	288		
Long joint length	425		
Long joint - south tenon length	34		
Long joint - north tenon length	33.5		
Bell length	190		
Vent hole distance from north			
Vent hole approx diameter			
Tone hole distance, axis			
Wing - tone hole 1 distance from north	183		
Wing - tone hole 2 distance from north	217		
Wing - tone hole 3 distance from north	250		
Butt - tone hole 4 distance from north	62		
Butt - tone hole 5 distance from north	100		
Butt - tone hole 6 distance from north	135		
Butt - tone hole F distance from north	238		Calculated
Butt - tone hole E distance from north	107		
Butt - tone hole Ab distance from north	218		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	379.5		

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Long joint - tone hole Eb distance from north	x		
Long joint - tone hole C distance from north	235.5		Calculated
Long joint - tone hole Bb distance from north	115.5		Calculated
Wing - major axis at tone hole 1			
Wing - major axis at tone hole 2			
Wing - major axis at tone hole 3			
Butt - major axis (side to side) at tone hole 4			
Butt - minor axis (front to back) at tone hole 4			
Butt - major axis (side to side) at tone hole 5			
Butt - minor axis (front to back) at tone hole 5			
Butt - major axis (side to side) at tone hole 6			
Butt - minor axis (front to back) at tone hole 6			
Butt - major axis (side to side) at tone hole F			
Butt - minor axis (front to back) at tone hole F			
Butt - major axis (side to side) at tone hole E			
Butt - minor axis (front to back) at tone hole E			
Butt - major axis (side to side) of the bottom butt ellipse	51.3		Calculated / 50.3 without brass
Butt - minor axis (front to back) of the bottom butt ellipse	34		32.7 without brass
Butt - major axis (side to side) of the top butt ellipse	62.5		
Butt - minor axis (front to back) of the top butt ellipse	39		
Butt - cork major axis (side to side)			
Butt - cork minor axis (front to back)			
Long joint - minor axis (front to back) at tone hole D			
Long joint - major axis (side to side) at tone hole D			
Long joint - minor axis (front to back) at tone hole Eb			
Long joint - major axis (side to side) at tone hole Eb			

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Long joint - minor axis (front to back) at tone hole C			
Long joint - major axis (side to side) at tone hole C			
Long joint - minor axis (front to back) at tone hole Bb			
Long joint - major axis (side to side) at tone hole Bb			
Tone hole angle, \emptyset, length	Min.	Max.	
Wing - tone hole 1 angle	54° N		
Wing - tone hole 2 angle	38° S		
Wing - tone hole 3 angle	36° S		
Wing - tone hole 1 approx. \emptyset	4		
Wing - tone hole 2 approx. \emptyset	5.1		
Wing - tone hole 3 approx. \emptyset	5.35		
Wing - tone hole 1 approx. length			
Wing - tone hole 2 approx. length			
Wing - tone hole 3 approx. length			
Butt - tone hole 4 angle	28.5° N		
Butt - tone hole 5 angle	23.5° S		
Butt - tone hole 6 angle	24° S		
Butt - tone hole E angle	28.5° S		
Butt - tone hole 4 approx. \emptyset	6.3		
Butt - tone hole 5 approx. \emptyset	5.43		
Butt - tone hole 6 approx. \emptyset	4.6		
Butt - tone hole E approx. \emptyset	6.8		
Butt - tone hole 4 approx. length			
Butt - tone hole 5 approx. length			
Butt - tone hole 6 approx. length			
Butt - tone hole E approx. length			

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Long joint - tone hole C angle	0		
Long joint - tone hole C \emptyset	6.7	6.82	
Long joint - tone hole C approx. length			
BASIC - INSIDE			
Inner bore length			
Bore length	1506.9		
Wing bore length	387		Calculated
Butt - small bore length			
Butt - big bore length			
Butt - small bore socket length	34.55		
Butt - big bore socket length	35.5		
Butt - small bore beginning of septum			
Butt - big bore beginning of septum			
Long joint length			
Bell length			
Inner bore beginning \emptyset (not socket!)	Min.	Max.	
Wing bore \emptyset north			
Wing bore \emptyset south			
Bocal well length	35		
Butt - small bore \emptyset north			
Butt - big bore \emptyset north			
Long joint \emptyset north			
Long joint \emptyset south			
Bell bore \emptyset north	19.9	20.4	
Bell bore \emptyset south			

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Bell socket length	36	36.5	
Bocal \emptyset at the beginning			
Bocal thickness at the beginning			
Bocal \emptyset at the tenon			
Bocal thickness at the tenon			
Bocal length (along top)			
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule			
Bocal well ferrule thickness			
Wing - tenon thickness			
Wing - tenon northern extern. \emptyset	24.1	24.5	
Wing - tenon southern extern. \emptyset			
Wing - tone hole A distance from north			
Wing - tone hole A angle			
Wing - tone hole A approx. \emptyset			
Wing - tone hole A approx. length			
Wing - tone hole C distance from north			
Wing - tone hole C angle			
Wing - tone hole C approx. \emptyset			
Wing - tone hole C approx. length			
Butt - big socket thickness with ferrule	2.6		
Butt - small socket thickness with ferrule	3.8		
Butt - top ferrule thickness	0.7		Approximate
Minimum wall thickness between butt sockets	4		
Butt - wood space between corks - bottom	x		
Butt - big bore cork \emptyset - bottom	x		

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Butt - small bore cork \emptyset - bottom	x		
Butt - wood wall between cork/front - small bore	7.5		One cork, only front, back and side measurements
Butt - wood wall between cork/front - big bore	7.5		One cork, only front, back and side measurements
Butt - wood wall between cork/back - small bore	8		One cork, only front, back and side measurements
Butt - wood wall between cork/back - big bore	8		One cork, only front, back and side measurements
Wood wall between cork/side - small bore	7		One cork, only front, back and side measurements
Wood wall between cork/side - big bore	6.5		
Butt - bottom ferrule thickness	.ca 1		
Long joint - south tenon thickness	3.5	4.1	
Long joint - south tenon northern extern. \emptyset			
Long joint - south tenon southern extern. \emptyset	27.2	27.4	
Long joint - north tenon thickness	3.3	3.6	
Long joint - north tenon northern extern. \emptyset	31	31.5	
Long joint - north tenon southern extern. \emptyset			
Bell socket thickness with brass	3.5	4.1	
Brass thickness of the bell ferrule	0.7		Estimated
Bell ferrule height			
Tone hole angle, \emptyset, length			
Butt - tone hole Ab angle	0.7° N		
Butt - tone hole F angle	14.5° N		
Butt - tone hole F \sharp angle	x		

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Butt - tone hole Ab approx. \emptyset	3.13		
Butt - tone hole F approx. \emptyset	6.2		
Butt - tone hole F# approx. \emptyset	x		
Butt - tone hole Ab approx. length			
Butt - tone hole F approx. length			
Butt - tone hole F# approx. length			
Long joint - tone hole D angle			
Long joint - tone hole E \flat angle	x		
Long joint - tone hole B \flat angle			
Long joint - tone hole D approx. \emptyset			
Long joint - tone hole E \flat approx. \emptyset			
Long joint - tone hole B \flat approx. \emptyset			
Long joint - tone hole D approx. length			
Long joint - tone hole E \flat approx. length			
Long joint - tone hole B \flat approx. length			
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south			
Wing - tone hole 2 distance from south			
Wing - tone hole 3 distance from south			
Wing - tone hole A distance from south			
Wing - tone hole W2 distance from south			
Butt - tone hole 4 distance from north			
Butt - tone hole 5 distance from north			
Butt - tone hole 6 distance from north			
Butt - tone hole Ab distance from north			
Butt - tone hole F distance from north			

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Butt - tone hole F # distance from north			
Butt - tone hole E distance from north			
Long joint - tone hole D distance from north			
Long joint- tone hole E b distance from north			
Long joint - tone hole C distance from north			
Long joint - hole B b distance from north			
Bell - vent hole distance from north			
EXTRAS			
Wing - ferrule height	22		
Butt - northern ferrule height	29		
Butt - southern ferrule height	24		