

5-key tenoroon, François Xavier PROFF, Tours, ca. 1800

BASIC - OUTSIDE	mm	mm	Comments
Joint lengths			
Standing length to bell	716		
Standing length to wing joint	563		
Wing joint length	313		
Wing joint - tenon length	39		
Butt joint length	289		
Long joint length	371		
Long joint - south tenon length	29.7		
Long joint - north tenon length	30		
Bell length	128.3		
Vent hole distance from north	x		
Vent hole approx diameter	x		
Tone hole distance, axis			
Wing - tone hole 1 distance from north	137		
Wing - tone hole 2 distance from north	157		
Wing - tone hole 3 distance from north	183		
Butt - tone hole 4 distance from north	75		
Butt - tone hole 5 distance from north	100		
Butt - tone hole 6 distance from north	128		
Butt - tone hole F distance from north	220		
Butt - tone hole E distance from north	93		
Butt - tone hole Ab distance from north	212		
Butt - tone hole F# distance from north	x		
Long joint - tone hole D distance from north	319		
Long joint - tone hole Eb distance from north	282		

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Long joint - tone hole C distance from north	201		
Long joint - tone hole Bb distance from north	77		
Wing - major axis at tone hole 1	39		
Wing - major axis at tone hole 2	40		
Wing - major axis at tone hole 3	39		
Butt - major axis (side to side) at tone hole 4	54.1		
Butt - minor axis (front to back) at tone hole 4	40.6		
Butt - major axis (side to side) at tone hole 5	53		
Butt - minor axis (front to back) at tone hole 5	39.8		
Butt - major axis (side to side) at tone hole 6	52		
Butt - minor axis (front to back) at tone hole 6	39		
Butt - major axis (side to side) at tone hole F	47.1		
Butt - minor axis (front to back) at tone hole F	33.8		
Butt - major axis (side to side) at tone hole E	53.4		
Butt - minor axis (front to back) at tone hole E	40.6		
Butt - major axis (side to side) of the bottom butt ellipse	43	40.6	With/without ferrule
Butt - minor axis (front to back) of the bottom butt ellipse	31	29.4	With/without ferrule
Butt - major axis (side to side) of the top butt ellipse	56.6	54.2	With/without ferrule
Butt - minor axis (front to back) of the top butt ellipse	37.8	36	
Butt - cork major axis (side to side)	36		
Butt - cork minor axis (front to back)	15.4		
Long joint - minor axis (front to back) at tone hole D	30.8		
Long joint - major axis (side to side) at tone hole D	32.7		Platform height 2.4 mm
Long joint - minor axis (front to back) at tone hole Eb	31.7		

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Long joint - major axis (side to side) at tone hole Eb	32		
Long joint - minor axis (front to back) at tone hole C	32.9		Platform height 2.7 mm
Long joint - major axis (side to side) at tone hole C	34.6		
Long joint - minor axis (front to back) at tone hole Bb	32.6		
Long joint - major axis (side to side) at tone hole Bb	34.1		Platform height 2.7
Tone hole angle, Ø, length			
Wing - tone hole 1 angle	31° North		
Wing - tone hole 2 angle	16.5° South		
Wing - tone hole 3 angle	23.5° South		
Wing - tone hole 1 approx. Ø	3.2		
Wing - tone hole 2 approx. Ø	3.8		
Wing - tone hole 3 approx. Ø	3.2		
Wing - tone hole 1 approx. length	22.2		
Wing - tone hole 2 approx. length	19.3		
Wing - tone hole 3 approx. length	17.5		
Butt - tone hole 4 angle	15.5° North		
Butt - tone hole 5 angle	22° South		
Butt - tone hole 6 angle	18° South		
Butt - tone hole E angle	15° South		
Butt - tone hole 4 approx. Ø	4.3		
Butt - tone hole 5 approx. Ø	4.6		
Butt - tone hole 6 approx. Ø	4		
Butt - tone hole E approx. Ø	6		
Butt - tone hole 4 approx. length	22.7		
Butt - tone hole 5 approx. length	21.5		

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Butt - tone hole 6 approx. length	22		
Butt - tone hole E approx. length	20		
Long joint - tone hole C angle	0		
Long joint - tone hole C Ø	7		
Long joint - tone hole C approx. length	10		
BASIC - INSIDE			
Inner bore length			
Bore length	1294.5		
Wing bore length	313.5		
Butt - small bore length	276.5		
Butt - big bore length	276.5		
Butt - small bore socket length	39		
Butt - big bore socket length	39		
Butt - small bore beginning of septum	250		
Butt - big bore beginning of septum	251		
Long joint bore length	373		
Bell bore length	128		
Inner bore beginning Ø (not socket!)	Min.	Max.	
Wing bore Ø north	8.6	8.7	
Wing bore Ø south	13.1	13.7	
Bocal well length	24.5		No distinct well, but marks of bocal placement
Butt - small bore Ø north	13.6	13.8	
Butt - big bore Ø north	16.2	16.3	
Long joint Ø north	18	18.8	
Long joint Ø south	15	15.8	

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Bell bore Ø north	18.4	18.6	
Bell bore Ø south	19	19.2	
Bell socket length	30		
Bocal Ø at the beginning	x		
Bocal thickness at the beginning	x		
Bocal Ø at the tenon	x		
Bocal thickness at the tenon	x		
Bocal length (along top)	x		
COMPLETE - OUTSIDE	Min.	Max.	
Bocal well thickness with ferrule	5.2	5.7	
Bocal well ferrule thickness	0.9		
Wing - tenon thickness	3.1	3.3	
Wing - tenon northern extern. Ø	20.7	20.9	
Wing - tenon southern extern. Ø	19.4		
Wing - tone hole A distance from north	x		
Wing - tone hole A angle	x		
Wing - tone hole A approx. Ø	x		
Wing - tone hole A approx. length	x		
Wing - tone hole C distance from north	x		
Wing - tone hole C angle	x		
Wing - tone hole C approx. Ø	x		
Wing - tone hole C approx. length	x		
Butt - big socket thickness with ferrule	3.1		
Butt - small socket thickness with ferrule	3.6		
Butt - top ferrule thickness	1.4		
Minimum wall thickness between butt sockets	3.7		

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Butt - wood space between corks - bottom	x		One cork
Butt - big bore cork Ø - bottom	14.8		
Butt - small bore cork Ø - bottom	14.8		
Butt - wood wall between cork/front - small bore	6.6	5.2	With/without ferrule
Butt - wood wall between cork/front - big bore	6.6	5.2	With/without ferrule
Butt - wood wall between cork/back - small bore	6.2	5.2	With/without ferrule
Butt - wood wall between cork/back - big bore	6.4	5.2	With/without ferrule
Wood wall between cork/side - small bore	2.9	1.8	With/without ferrule
Wood wall between cork/side - big bore	1.9	1.4	With/without ferrule
Butt - bottom ferrule thickness	1	0.7	
Long joint - south tenon thickness	3	3.2	
Long joint - south tenon northern extern. Ø	24.1	24.4	
Long joint - south tenon southern extern. Ø	22	22.4	
Long joint - north tenon thickness	2.9	3	
Long joint - north tenon northern extern. Ø	24.1	24.2	
Long joint - north tenon southern extern. Ø	24.5	24.7	
Bell socket thickness with brass	3.3	3.6	Without ferrule 2.3
Brass thickness of the bell ferrule	0.9	1.2	
Bell ferrule height	22.5		
Tone hole angle, Ø, length			
Butt - tone hole Ab angle	x		
Butt - tone hole F angle	x		
Butt - tone hole F# angle	x		
Butt - tone hole Ab approx. Ø	3.4		
Butt - tone hole F approx. Ø	7.4		
Butt - tone hole F# approx. Ø	x		

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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 E \flat angle	x		
Long joint - tone hole B \flat angle	x		
Long joint - tone hole D approx. \emptyset	6.8		
Long joint - tone hole E \flat approx. \emptyset	4.8		
Long joint - tone hole B \flat approx. \emptyset	7.7		
Long joint - tone hole D approx. length	x		
Long joint - tone hole E \flat approx. length	x		
Long joint - tone hole B \flat approx. length	x		
COMPLETE - INSIDE			
Wing - tone hole 1 distance from south	186		
Wing - tone hole 2 distance from south	149.5		
Wing - tone hole 3 distance from south	123.5		
Wing - tone hole A distance from south	x		
Wing - tone hole C distance from south	x		
Butt - tone hole 4 distance from north	68		
Butt - tone hole 5 distance from north	107		
Butt - tone hole 6 distance from north	133		
Butt - tone hole Ab distance from north	215		
Butt - tone hole F distance from north	220		
Butt - tone hole F# distance from north	x		
Butt - tone hole E distance from north	67		
Long joint - tone hole D distance from north	321		

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Long joint- tone hole E \flat distance from north	283		
Long joint - tone hole C distance from north	202		
Long joint - hole B \flat distance from north	78		
Bell - vent hole distance from north	x		