

Skeleton measurement sheet

Location:	Frankfurt						
Inv. N°:	X4268						
Measured:	10/04/2000						
	& 23/06/2006						
Pitch @ a=440hz:	d'						
Total length:	548.5						
Speaking length:	503.5						
Windway length:	45						

Material: Sycamore or maple, dark stained
 mark: *ff* below window, P M under bell

						External diameters	
FINGERHOLES						from top	Ø
		length	diameter		direction	bl	32.5
		(from top)	(from bl)	east/w	north/s	↑⇌↓⇐	
X		233.5	188.5	5.9	6.2		hole X
1		247.5	202.5	6.0	6.6		1
2		282	237	6.0	6.8		2
3		317.5	272.5	7.0	7.9		3
4		366	321	7.2	8.1		4
5		402	357	7.1	8.1		5
6		435	390	6.9	7.4		6
7 west (r hand player)		470	425	4.8	5.5	↓	7
7 east			none				

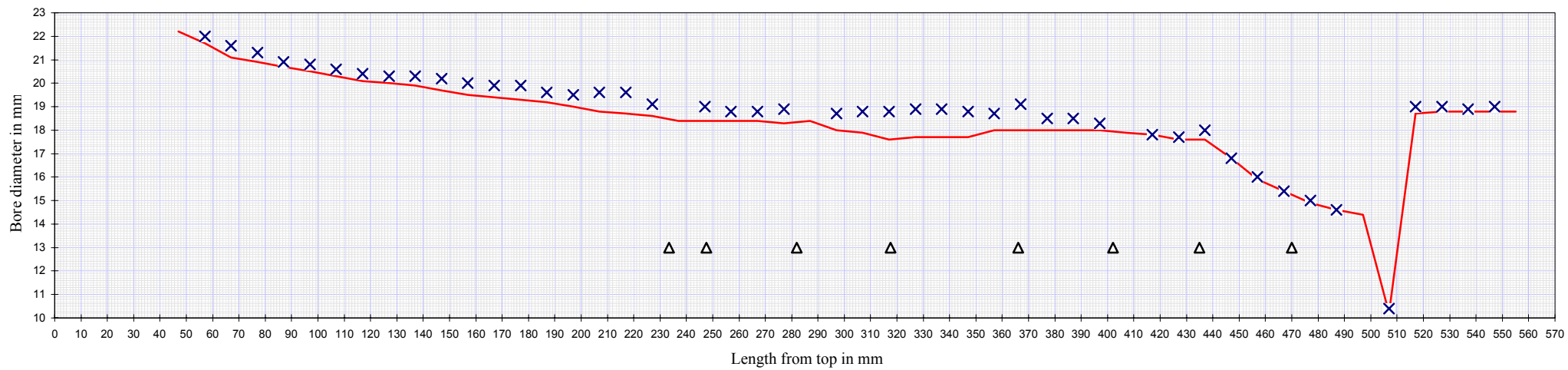
Step:		Window width:	11.7
Edge thickness:		Cutup	5.4
		bottom	47.5
Windway exit chamfers: up	no visible	Ramp width north	12.6
down	very slight	south	13.4
W/W entrance: width	15.3	Ramp length: west	16.8
height	2.4	east	16.3
		middle	21
Beak cut away:	29.5		

NOTES:
 block is completely round, labium curvature is bore radius
 lump "choke" glued into bore just below hole 7, bore measurements below hole 6 are influenced by contraction. likely bore at this point is cylindrical
 taper at top of bore most unusual, contributing in all probability to the narrow octaves
 instrument is mate to X 4267
 both instruments fit nicely into case number X 4269, which has turned out flare to accommodate bell flare
 instruments in good condition, but both play badly. soft low notes and very narrow octaves.
 van Eyck fingering

Frankfurt X4268 FF.PM tenor.xls, Bore from top

Length	Ø↔	Ø↑↓		Length	Ø↔	Ø↑↓				
47	22.2			347	17.7	18.8				
57	21.7	22.0		357	18.0	18.7				
67	21.1	21.6		367	18.0	19.1				
77	20.9	21.3		377	18.0	18.5				
87	20.7	20.9		387	18.0	18.5				
97	20.5	20.8		397	18.0	18.3				
107	20.3	20.6		407	17.9					
117	20.1	20.4		417	17.8	17.8				
127	20.0	20.3		427	17.6	17.7				
137	19.9	20.3		437	17.6	18.0				
147	19.7	20.2		447	16.8	16.8				
157	19.5	20.0		457	15.9	16.0				
167	19.4	19.9		467	15.4	15.4				
177	19.3	19.9		477	14.9	15.0				
187	19.2	19.6		487	14.6	14.6				
197	19.0	19.5		497	14.4					
207	18.8	19.6		507	10.2	10.4				
217	18.7	19.6		517	18.7	19.0				
227	18.6	19.1		527	18.8	19.0				
237	18.4			537	18.8	18.9				
247	18.4	19.0		547	18.8	19.0				
257	18.4	18.8		555	18.8					
267	18.4	18.8								
277	18.3	18.9								
287	18.4									
297	18.0	18.7								
307	17.9	18.8								
317	17.6	18.8								
327	17.7	18.9								
337	17.7	18.9								

Frankfurt X4268 FF.PM tenor.xls, bore graph



Frankfurt X4268 FF.PM tenor.xls Tuning

	I =	d'			Temp.	19°	
	Tuner set to	a=440hz	Equal tempered		Humidity	52%	
Note	Cents deflection from 0	Pressure mm H.O	Fingering, where different	Note	Cents deflection from 0	Pressure mm H.O	Fingering, where different
I	-10	3		VIII	-30	12	
II	+20	6		IX	-60	13	
III	+30	9		X	-50	22	
IV	+45	9		XI			
V	0	9		XII	-40	23	
VI	0	9		XIII	0	23	0/12-----
VII	-50	9		XIV	-40	27	0/12-45--
				XV	-50	35	0/1--45--
<p>Will play 2 octaves and some octave relationships are fairly good, but the low notes are very weak.</p>							