



	A	B	C	D	E	F	G	H
97								
98								
99								
100								
101	<b>VI. Long Joint</b>			Port3 There is a table along long joint				
102	lg length	615	615	total length of long joint				
103	lg tenon bot	52.5	52.5	length bottom tenon on long joint [tenon going into boot joint]				
104	lj_bot_bore	24.8	24.8	long joint bottom tenon bore diameter [tenon going into boot joint]				
105	lj_top_bore	31.7	31.7	long joint top tenon bore diameter [tenon going into bell]				
106	lg_tenon_top	38.4	38.4	length top tenon on long joint [tenon going into bell]				
107	e1 distance	60	60	dist long joint tenon to e1 [from bot of tenon to where tone hole enters bore]				
108	d1 distance	259	259	dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]				
109	c1 distance	488	488	dist long joint tenon to c1 [from bot of tenon to where tone hole enters bore]				
110								
111								
112								
113								
114								
115	<b>VII. Bore diameters at Tone Holes</b>							
116	f2	11.4	11.4					
117	e	12.7	12.6					
118	d	13.2	13.1					
119								
120	c	15.9	15.9					
121	b	16.9	16.9					
122	a	17.5	17.5					
123	g	19.1	19.1					
124	f1	20.9	20.9					
125								
126	e1	25.2	25.2	e1 tone hole bore diameter on long joint				
127	d1	26.8	26.8	d1 tone hole bore diameter on long joint				
128	c1	28.7	28.7	c1 tone hole bore diameter on long joint				
129								
130								
131								
132								
133								
134	<b>VIII. Bell</b>			Port3 There is not a tone hole in the bell				
135	bell logic	1	1	If bell_logic=0=>normal conical bore; if bell_logic =1=>inverted conical bore;if bell_logic=2=>bell expansion				
136	bell_length (0, 1, 2)	334	334	total length of bell [lines 141 + 144 = line 136]				
137	bell_bot_bore (0, 1, 2)	32.9	32.9	dia bore at the bottom of bell [end with socket]				
138	bell_top_bore 0, (1, 0, 2)	30.2	30.2	dia bore at the top of bell [where low Bb exits]				
139	bell_center_bore (only for logic 2)			dia bore at max center of expansion				
140	bell_wall (only for logic 2)			bell wall thickness, Just for David				
141	bell_bot_bore_expansion (only for logic 2)			dist of bottom to maxium of expansion [including bell socket length,if bell logic=0 =>100]				
142	Outside diameter of wood at expansion			Just for David				
143	bell_tenon (0, 1, 0, 2)	38.1	38.1	bell socket length				
144	bell_expansion_length (only for logic 2)			distance of maxium expansion to top of bell [where Bb exits]				
145	bellfg	34.5	34.5					
146								
147								
148	<b>IX. PITCH</b>							
149	pitch	430	430	input the historical pitch of the bassoon, must input value, best guess				
150	freq_init	380	380	Initial frequency range variable				
151	Delta frequency	2	2	frequency increment parameter				
152	Number of frequencies	60	60	number of frequencies to scan for min chi sq				
153	Frequency adjust	1.05	1.05	frequency adjustment parameter				
154	<b>X. Title</b>							
155	title			Bassoon Calculation: Porthaux3-O-MET1999.307-Wg1-WB-DNM				
156	XI. Temperament # (chron order)							
157	Input Temperament #	0	0	Notes on long joint bore: Port3 out of round in places				
158				Notes on boot joint bore: Port3 small side very out of round				
159	<b>XI. Bore Diameter Locations</b>			Notes on wing joint bores: Port3 normal				
160		21	21	Number of diameters				
161		9.2	9.2	Initial bore diameter [do not include in line 160 counting]				
162		358	358	dist1; measured from the bottom of the wing joint- 10mm				1
163		325	325	dist2; measured from the bottom of the wing joint- 11mm				1
164		256	256	dist3; measured from the bottom of the wing joint- 12mm				1
165		188	188	dist4; measured from the bottom of the wing joint- 13mm				1
166		129	129	dist5; measured from the bottom of the wing joint- 14mm				1
167		25	25	dist6; measured from the bottom of the wing joint- 15mm	Bottom wing jt	15.8		1
168		96	96	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot small	15.9		2
169		162	162	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot large	23.1		2
170		233	233	dist9; measured from the top of the bootjoint - small bore side- 18mm				2
171		365	365	dist10; measured from the top of the bootjoint - large bore side- 19mm	sbore dia sep	18.4		3
172		199	199	dist11; measured from the top of the bootjoint - large bore side- 20mm	lbore dia sep	18.6		3
173		150	150	dist12; measured from the top of the bootjoint - large bore side- 21mm	Hook Length	391		3
174		108	108	dist13; measured from the top of the bootjoint - large bore side- 22mm				3
175		65	65	dist14; measured from the top of the bootjoint - large bore side- 23mm				3
176		0	0	dist15; measured from the top of the boot joint- large bore side- 24mm	lj_bot_bore	24.8		3
177		580	580	dist16; measured from the top of the long joint- 25mm				4
178		386	386	dist17; measured from the top of the long joint- 26mm				4
179		340	340	dist18; measured from the top of the long joint- 27mm				4
180		308	308	dist19; measured from the top of the long joint- 28mm				4
181		103	103	dist20; measured from the top of the long joint- 29mm				4
182		74	74	dist21; measured from the top of the long joint- 30mm				4
183		40	40	dist22; measured from the top of the long joint- 31mm				4
184		0	0	dist23; measured from the top of the long joint- 32mm	lj_top_bore	31.7		4