

	A	B	C	D	E	F	G	H	I
112									
113									
114									
115	VII. Bore diameters at Tone Holes								
116	f2	12.2						11.6	
117	e	12.7						12.8	
118	d	12.8						13.1	
119									
120	c	15.1						15.1	
121	b	16.3						16.2	
122	a	17.2						17.1	
123	g	19.3						19.2	
124	f1	22.7						23.2	
125									
126	e1	25.1	e1 tone hole bore diameter on long joint					25.1	
127	d1	27.4	d1 tone hole bore diameter on long joint					27.8	
128	c1	31.1	c1 tone hole bore diameter on long joint					31.2	
129									
130									
131									
132									
133									
134	VIII. Bell								
135	bell logic	1	If bell logic = 0 => normal conical bore; if bell logic = 1 => inverted conical bore; if bell logic = 2 => bell expansion					1	
136	bell length (0, 1, 2)	331	total length of bell [lines 141 + 144 = line 136]					331	
137	bell_bot_bore (0, 1, 2)	33.8	AdlerFG6 vrfd; dia bore at the bottom of bell [end with socket]					34.1	
138	bell_top_bore 0, (1, 0, 2)	32.5	dia bore at the top of bell [where low Bb exits]					33.5	
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)	40.8	bell socket length					40.5	
144	bell_expansion_length (only for logic 2)		distance of maxium expansion to top of bell [where Bb exits]						
145	bellfg	37						37	
146									
147									
148	IX. PITCH								
149	pitch	430	input the historical pitch of the bassoon, must input value, best guess					430	
150	freq_init	380	Initial frequency range variable					380	
151	Delta frequency	2	frequency increment parameter					2	
152	Number of frequencies	60	number of frequencies to scan for min chi sq					60	
153	Frequency adjust	1.05	frequency adjustment parameter					1.05	
154	X. Title								
155	title		Bassoon Calculation: AdlerFG6-O-Rapoport-Wg1-WOB-DNM						
156									
157			Notes on long joint bore: AdlerFG6 aood						
158			Notes on boot joint bore: AdlerFG6 normal						
159	XI. Bore Diameter Locations								
160		21	Number of diameters					21	
161	Bell Bore	9.9	Initial bore diameter [do not include in line 160 counting]					9.9	
162	33.8mm diameter at socket	405	dist1; measured from the bottom of the wing joint- 10mm				1	422	
163	33mm rod 115mm from socket	350	dist2; measured from the bottom of the wing joint- 11mm				1	330	
164	32mm rod 158mm from socket	330	AdlerFG6 vrfd gap, could be an obstruction in the bore; dist3; measured from the bottom of the wing joint- 12mm				1	268	
165	31mm rod 265mm from socket	145	AdlerFG6 vrfd gap; dist4; measured from the bottom of the wing joint- 13mm				1	170	
166	32.5mm diameter at bell end	0	dist5; measured from the bottom of the wing joint- 14mm				2	0	
167		78	dist6; measured from the bottom of the wing joint- 15mm	Bottom wing jt	14.3		2	70	
168		123	dist7; measured from the top of the bootjoint - small bore side- 16mm	top boot small	15.3		2	135	
169		178	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot large	24.4		2	183	
170		265	AdlerFG6 vrfd gap; dist9; measured from the top of the bootjoint - small bore side- 18mm				2	273	
171		0	dist10; measured from the top of the bootjoint - large bore side- 19mm	sbore dia sep	18.6		3	0	
172		305	dist11; measured from the top of the bootjoint - large bore side- 20mm	lbore dia sep	19.1		3	300	
173		235	dist12; measured from the top of the bootjoint - large bore side- 21mm	Hook Length	383		3	245	
174		188	dist13; measured from the top of the bootjoint - large bore side- 22mm				3	205	
175		129	dist14; measured from the top of the bootjoint - large bore side- 23mm				3	160	
176		78	dist15; measured from the top of the long joint- 24mm	li bot bore	25.4		3	80	
177		523	AdlerFG6 OOR; dist16; measured from the top of the long joint- 25mm				4	545	
178		427	dist17; measured from the top of the long joint- 26mm				4	450	
179		350	dist18; measured from the top of the long joint- 27mm				4	415	
180		274	dist19; measured from the top of the long joint- 28mm				4	305	
181		223	dist20; measured from the top of the long joint- 29mm				4	245	
182		163	dist21; measured from the top of the long joint- 30mm				4	170	
183		110	dist22; measured from the top of the long joint- 31mm				4	115	
184		35	AdlerFG6 OOR; dist23; measured from the top of the long joint- 32mm	li top bore	32.9		4	65	