



	A	B	C	D	E	F	G	H	I	J
108	d1 distance	257	257	256 mm; dist long joint tenon to d1 [from bot of tenon to where tone hole enters bore]						
109	c1 distance	471	471	469 mm; 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	12.1	12.3	12.8 StanesbySr1						
117	e	12.9	13.1	13.3						
118	d	13.6	13.6	13.9						
119										
120	c	17.4	17.4	17.3						
121	b	17.8	17.8	17.6						
122	a	18	18	17.9						
123	g	22.2	22.2	21.6						
124	f1	24.1	24.1	23.4						
125										
126	e1	25.2	25.2	24.5 mm; e1 tone hole bore diameter on long joint						
127	d1	27.6	27.6	27.4 mm; d1 tone hole bore diameter on long joint						
128	c1	30.5	30.5	30.5 mm; c1 tone hole bore diameter on long joint						
129										
130										
131										
132										
133										
134	<b>VIII. Bell</b>									
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)	320	320	319 mm; total length of bell [lines 141 + 144 = line 136]						
137	bell bot bore (0, 1, 2)	32.8	32.8	32.7 mm; dia bore at the bottom of bell [end with socket]						
138	bell top bore 0, (1, 0, 2)	27.6	27.6	28.1 mm; dia bore at the top of bell [where low Bb exits] <b>no OOR x</b>						
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)	46.1	46.1	45 mm; bell socket length						
144	bell expansion length (only for logic 2)			distance of maxium expansion to top of bell [where Bb exits]						
145	bellfg	41.3	41.3	42 mm; Usually about 10mm more than line 138						
146										
147										
148	<b>IX. PITCH</b>									
149	pitch	415	415	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: StanesbySr-C-Dart1-Dart-Wg1-WOB-DNM						
156										
157				Notes on long joint bore: very out of round in places, no						
158				Notes on boot joint bore: small side cyn.						
159				Notes on wing joint bore: ????						
160	<b>XI. Bore Diameter Locations</b>									
160		21	21	Number of diameters						
161		9.5	9.5	Initial bore diameter [do not include in line 160 counting]						
162		419	419	dist1; measured from the bottom of the wing joint- 10mm						1
163		394	394	dist2; measured from the bottom of the wing joint- 11mm						1
164		323	323	dist3; measured from the bottom of the wing joint- 12mm						1
165		248	248	dist4; measured from the bottom of the wing joint- 13mm						1
166		172	172	dist5; measured from the bottom of the wing joint- 14mm						1
167		126	126	dist6; measured from the bottom of the wing joint- 15mm	Bottom win	17.2				1
168		61	61	dist7; measured from the bottom of the wing joint- 16mm	top boot sm	17.3				1
169		12	12	dist8; measured from the top of the bootjoint - small bore side- 17mm	top boot lar	26.5				1
170		173	173	dist9; measured from the top of the bootjoint - small bore side- 18mm	sbore dia se	19.7				2
171		286	286	dist10; measured from the top of the bootjoint -small bore side- 19mm	lbore dia se	21.2				2
172		0	0	dist11; measured from the top of the bootjoint - large bore side- 20mm	Hook Lengh	408				3
173		0	0	dist12; measured from the top of the bootjoint - large bore side- 21mm						3
174		375	375	dist13; measured from the top of the bootjoint - large bore side- 22mm						3
175		250	250	dist14; measured from the top of the bootjoint - large bore side- 23mm						3
176		166	166	dist15; measured from the top of the bootjoint - large bore side- 24mm	lj bot bore	25.2				3
177		108	108	dist16; measured from the top of the long joint- 25mm						3
178		425	425	dist17; measured from the top of the long joint- 26mm						4
179		376	376	dist18; measured from the top of the long joint- 27mm						4
180		269	269	dist19; measured from the top of the long joint- 28mm						4
181		224	224	dist20; measured from the top of the long joint- 29mm						4
182		205	205	dist21; measured from the top of the long joint- 30mm						4
183		100	100	dist22; measured from the top of the long joint- 31mm						4
184		51	51	dist23; measured from the top of the long joint- 32mm	lj top bore	32.7				4