П	A	В	C	D	E	F	G
1	I. Bocal		Original bocal; No bocal				
2	dia reed end		inside diameter of reed end of bocal				
3	bocal string length (0, 1) metal bocal length top (0, 1)		length of bocal inserted into receiver meas. along top of bocal				
5	metal bocal length bot (0, 1)		meas. along bottom of bocal				
6	dia wj end		inside diameter of bocal				
7							
8	bocal logic	2	if bocal logic = 0 => bocal is choke; if bocal logic = 1 =>choke in wing joint calc; if bocal logic	= 2 => no bocal			
9							
10							
12							
	II. Wing Joint Lengths		Tuerlincki4, bocal receiver: no				
	choke bore dia.	10.2	Tuerlinckx4 vrfd; logic 1; bore diameter of choke; logic 0; either diameter bocal bottom or beg	inning of bore at botton	or red	eiver	
15	receiver length (1, 0) (formally choke length)	72	logic 1; length of choke from top of wing joint; logic 0; length of receiver (same as string length	:h)			
	wing joint length tenon length	517 50.5	total wing joint length, including tenon and socket tenon length				
18	teriori lerigiri	30.3	tenon length				
	wj f2	215	Tuerlinckx4 vrfd; dist top of wing to where tone hole enters bore [not at the center of the tone	hole]			
	wj e	294					
	wj d	331					
22	Dave die Datter of wine inint	15.2	Need to Average weelly evel. To wind and				
23 24	Bore dia. Bottom of wing joint Bore dia. top of boot joint small side	15.2 15.3	Need to Average, usally oval; Tourlinckx4 no				
25	Bore dia. top of boot joint small side Bore dia. top of boot joint large side	22.1					
26							
	III. Boot Lengths						
28 29	bj logic	1 02	logic=> if bj logic = 0 => plug removed; if bj logic = 1 => plug cannot be removed				
	bj c bj b	92 156	dist from top of boot to where topmost tone hole enter bore [not at center of tone hole]				
	bj a	197					
32							
	bjstotal [Needed for both boot logics]	434	total length of boot, include socket, along the small bore side				
	bjltotal [Needed for both boot logics]	434	total length of boot, include socket, along large bore side				
	plug small [Need for logic 0 only] plug large [Need for logic 0 only]	0	plug thickness, large bore side plug thickness, small bore side				
37	plag large [reced for logic o offiy]	U	prag anamessy sman pore side				
38	boots [Needed for both boot logics]	398	hook length along s bore => bjs-septum length = boot - septum <= calc the septum				
39	bootl [Needed for both boot logics]	398	hook length along I bore => bjl-septum length = boot - septum <= calc the septum				
40	hooks bottom (Mandad St. 1991) 1991 1991	10	the book districtions (district on stight on stight of the state of th				
41	boots bottom [Needed for both boot logics] bootl bottom [Needed for both boot logics]	16	use hook, dist of bore [dist on stick plus 7mm, diff between hook and bot of stick] 9 + 7= 16 use hook, dist of bore [same as boots bot except tenon depth will be different]				
43	book bottom [Needed for both boot logics]	16	use nook, disc of pore [same as poors por except terion depth will be different]			\vdash	
44	extreme bore [Needed for logic 1 only]	41.3	Outside dia of plug [measured] = small bore dia + large bore dia + the septum width				
45							
46	septum length exp [Need for logic 0 only]	0	dist. from very bottom of boot to septum [point between the large and small bore]				
47	septum length calc - do not imput value	36	dist. From very bottom of boot to spetum [bjl - bootl]	do not imput value			
48 49	septum length - do not imput value	36	if bj logic = 0 => septum = septum exp; if bj logic = 1 => septum = septum calc	do not imput value			
50	sbore dia sep* [Needed for both boot logics]	18.4	Tuerlinckx4, vrfd same as Tuer2; septum small bore dia [assume = lbore dia sep]				
51	Ibore dia sep* [Needed for both boot logics]	18.4	septum large bore dia [assume = sbore dia sep] [mesure if cork can be removed; for Logic 0]				
52	sep width exp [Need for logic 0 only]	0	septum width; direct measurement if remove plug				
53 54	sep width calc - do not imput value	4.5	septum width; calc. => extreme bore - sbore - lbore	do not imput value			
55	sep width - do not imput value	4.5	if bj logic = 0 => sep width = sep width exp; if bj logic = 1 => sep width = sep width calc	do not imput value			
56	bj g	346	dist from top of boot (socket) to where G hole enters bore [not at cent of tone hole]				
57	bj f1	144	dist from top of boot (socket) to where F1 hole enters bore [not at cent of tone hole]				
58							
59 60							
61							
62							
63	IV. Tone Hole Diameters						
64	f2	5.1	Total and a set on the second				
65 66	e d	5.1 4.9	Tuerlinckx4 vrfd small finger holes				
67	<u>-</u>	7.2					
68	с	7.2					
69	b	6.2					
70 71	a	5.3					
71 72	y f1	7.9 9.3					
73		ر. ر					
74	e1	9.5	Tuerlinckx4, could not remove key; e1 tone hole dia, on long joint [need to average NS and EV	V dias, NS usually great	er]		
	d1		d1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]				
76	c1	14.1	c1 tone hole dia, on long joint [need to average NS and EW dias, NS usually greater]			\vdash	
77 78							
79							
80							
81							
	V. Tone Hole Depths	26.0					
83 84	e	36.8 28.5					
85	d	30	Tuerlinckx4, d tone hole not drilled exactly in center				
86							
87	С	25.5					
88	D .	23.5					
89 90	a a	23.5 15	meas along bot tone hole wall [north wall, toward reed,tone hole usually at angle]				
91	f1	20.5	meas along east side tone hole wall [north wall, toward reed, the usually at angle]				
92			Tuerlinckx4 could not move low D key guard; could meas. accurately				
93	e1	8.2	e1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]				
	d1		d1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]				
95 96	c1	7.8	c1 tone hole depth; meas east/west with deapth gauge [at center, or shortest dist]			\vdash	
96 97							
98							
99							
100							

12 VI. Levin John	$\overline{}$	A	В	C	D	F	F	G
120 St. term 127	101		В		J D		-	G
1.00 1.00			578	Tuerlinckx4, vrfd; total length of long joint				
100 100	103	lg_tenon_bot						
150 Senson voc								
100 1 delance				long joint top tenon bore diameter [tenon going into bell]				
1985 of distance								
1996 Interest 1997 1998 1999 199								
11 12 13 14 15 15 17 18 17 18 17 18 17 18 17 18 18								
11 11 11 12 12 13 14 15 15 15 15 15 15 15	110							
13	111							
13								
11 VIII Bull								
11 12 12 13 13 13 13 13		VII. Bore diameters at Tone Holes						
118	116		12					
113	117	e						
1.5.2 1.5.		d	13.2					
12.2 1.3 1.2 1.3 1.2 1.3		_	15.5					
17		h						
19.2 19.2 19.2 19.2 19.2 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3		a						
22	123	g						
12.25 1.25		f1	21.1					
12 25 1 3.0.2 1 1 3.0.2 1 1 1 1 1 1 1 1 1		-1	22.0	at have hale have dismaker as long isint				
122 123 124 125								
120 130 130 131 132 133 133 133 133 133 133 133 134 135 134 135 134 135 134 135	128	c1						
133 134 135 135 136	129							
132 132 133 133 134 135	130							
133 VIII. Bell 1	131							
13 MITE Bell						-		
133 Det legic 1		VIII. Bell		Tuerlinckx4 no tone hole in the bell				
130 pell length (0, 1, 2) 348 total length of bell [lines 141 + 144 = line 136] 137 pell but borre (0, 1, 2) 32, 2] dia bore at the bottom of bell [lend with socket] 138 pell top borre 0, (1, 0, 2) 26 17 perindxed 25.9 x 26.1; dia bore at the top of bell [where low Bb exits] 140 pell (which (0, 1) pell (0, 1) p	135	bell logic	1		ic = 2 => bell expansio	n		
138 Net top bore (), (1), (2) 26								
130 bel. extert. Dore (only for logic 2) dia bore at max center of expansion	137							
bell wall (only for logic 2) bell wall (only for logic 2) dist of bottom to maximum of expansion (including bell socket length, if bell logic—0 =>100]			26					
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 Dutside diameter of wood at expansion 24.8 bell spocket length 24								
distance of maxium expansion to top of bell (where Bb exits)	142	Outside diameter of wood at expansion		Just for David				
145 befing			42.8					
149 147			24.5					
148 X. PITCH		Delfig	34.5	Usually about 10mm more than line 138				
148] IX. PITCH								
150 Delta frequency 2 frequency increment parameter	148							
151 Delta frequency 2 frequency increment parameter								
152 Number of frequencies 60								
1.53 Frequency adjust 1.05 frequency adjustment parameter								
154 X. Title	153							
Notes on long joint; Tuerlinkx4 normal	154	X. Title						
Notes on loot joint, Tuerlinkx4 normal Notes on boot joint bore: Tuerlinkx4 good Notes on boot joint bore: Tuerlinkx4 good Notes on wing joint joi		title		Bassoon Calculation: Tuerlinckx4-O-BrusMIMIDK0022-Wg1-WOB-DNM				
Notes on boot joint bore: Tuerlinkx4 good Notes on wing joint bore: Tuerlinkx4 good				Notes on long joint: Tuerlinky/ normal				
Notes on wing joint bore: Tuerlinkx4 good	158							
160	159	XI. Bore Diameter Locations		Notes on wing joint bore: Tuerlinkx4 good		L		
162 Bottom of Bell; 32.2mm	160			Number of diameters				
163 Rod 31mm; 145 from bell socket 330 dist2; measured from the bottom of the wing joint- 11mm 1 164 Rod 30mm; 245 from bell socket 305 dist3; measured from the bottom of the wing joint- 12mm 1 165 Rod 29mm; 280 from bell socket 210 dist4; measured from the bottom of the wing joint- 13mm 1 166 Rod 28mm; 310 from bell socket 95 dist5; measured from the bottom of the wing joint- 14mm; 1 167 Rod 27mm; 320 from bell socket 95 dist6; measured from the bottom of the wing joint- 14mm; 1 15.2 1 168 Bell top; 26mm 120 dist7; measured from the top of the bootjoint - small bore side- 15mm Bottom wing it 15.2 1 168 Bell top; 26mm 120 dist7; measured from the top of the bootjoint - small bore side- 16mm top boot small 15.3 2 169 205 dist8; measured from the top of the bootjoint - small bore side- 17mm top boot large 22.1 2 2 2 2 2 2 2 2 2								-
164 Red 30mm; 245 from bell socket 305 dist3; measured from the bottom of the wing joint- 12mm 1 1 1 1 1 1 1 1 1								1
155 Rod 29mm; 280 from bell socket 210 dist4; measured from the bottom of the wing joint- 13mm 1 1 1 1 1 1 1 1 1				dist3; measured from the bottom of the wing joint- 12mm				1
167 Rod 27mm; 320 from bell socket 19 dist5; measured from the top of the bootjoint - small bore side- 15mm bottom wing it 15.2 1 168 Bell top; 26mm 120 dist7; measured from the top of the bootjoint - small bore side- 16mm top boot small 15.3 2 2 2 2 2 2 2 2 2	165	Rod 29mm; 280 from bell socket	210	dist4; measured from the bottom of the wing joint- 13mm				1
168 Bell top; 26mm								1
169								1
170 295 dist9; measured from the top of the bootjoint - small bore side- 18mm 2	160	Deli top; ZOIIIII						2
171 375 dist10; measured from the top of the bootjoint - large bore side- 19mm sbore dia sep 18.4 3 305 Tuerlinkx4 vrfd; dist11; measured from the top of the bootjoint - lg bore side- 20mm lbore dia sep 18.4 3 3 210 Tuerlinkx4 vrfd; dist11; measured from the top of the bootjoint - lg bore side- 20mm lbore dia sep 18.4 3 3 3 210 Tuerlinkx4 vrfd; dist12; measured from the top of the bootjoint - lg bore side- 21mm; OOR 24 Hook Length 398 3 3 3 3 3 3 3 3 3	170				top book large	-2.1		2
173	171		375	dist10; measured from the top of the bootjoint - large bore side- 19mm				3
174	172							3
175 500 dist14; measured from the top of the bootjoint - large bore side- 23mm 4 430 dist15; measured from the top of the long joint- 24mm 1j bot bore 21.6 4 430 dist15; measured from the top of the long joint- 25mm 5 5 5 5 5 5 5 5 5	173				Hook Length	398		3
176								3
177 380 dist16; measured from the top of the long joint- 25mm 4 178 340 dist17; measured from the top of the long joint- 26mm 4 179 275 Tuerlinckx4, OOR; dist18; measured from the top of the long joint- 27mm 4 180 200 dist19; measured from the top of the long joint- 28mm 4 181 160 dist20; measured from the top of the long joint- 29mm 4 182 120 dist21; measured from the top of the long joint- 30mm 4 183 0 dist22; measured from the top of the long joint- 31mm verified 4	176				li bot bore	21.6		4
178 340 dist17; measured from the top of the long joint- 26mm 4 179 275 Tuerlinckx4, OOR; dist18; measured from the top of the long joint- 27mm 4 180 200 dist19; measured from the top of the long joint- 28mm 4 181 160 dist20; measured from the top of the long joint- 29mm 4 182 120 dist21; measured from the top of the long joint- 30mm 4 183 0 dist22; measured from the top of the long joint- 31mm verified 4	177							4
180 200 dist19; measured from the top of the long joint- 28mm 4 181 160 dist20; measured from the top of the long joint- 29mm 4 182 120 dist21; measured from the top of the long joint- 30mm 4 183 0 dist22; measured from the top of the long joint- 31mm verified 4	178		340	dist17; measured from the top of the long joint- 26mm				4
181 160 dist20; measured from the top of the long joint- 29mm 4 182 120 dist21; measured from the top of the long joint- 30mm 4 183 0 dist22; measured from the top of the long joint- 31mm verified 4	179							4
182 120 dist21; measured from the top of the long joint- 30mm 4 183 0 dist22; measured from the top of the long joint- 31mm verified 4	180							
183 0 dist22; measured from the top of the long joint- 31mm verified 4	182							
184 0 dist23; measured from the top of the long joint- 32mm lij top bore 30.9 4	183			dist22; measured from the top of the long joint- 31mm verified			L	4
	184				li top bore	30.9		4