

Appendix 1.1

Airfoil section, type, laterality, wood and theoretical density

Designation	Airfoil section	Type	Laterality	Wood	Theoretical wood density
bo15	Plano-convex	Boomerang	Right handed	Allocasuarina huegeliana	0.7
bo11	Plano-convex	Boomerang	Right handed	Acacia aneura	0.91 - 1,09
bo25	Plano-convex	Boomerang	Right handed	Dogwood	0.8 - 0.95
bg32	Quasi plano-convex	Heavy throwing stick	Right handed	Hornbeam	0.8 - 1
bg33	Quasi plano-convex	Heavy throwing stick	Right handed	Hornbeam	0.8 - 1
bl43	Rectangular	Medium throwing stick	Ambidextre	Hornbeam	0.8 - 1
bl44	Rectangular	Medium throwing stick	Ambidextre	Hornbeam	0.8 - 1
bc47	Biconvex	Medium throwing stick	Right handed	Boxwood	1
bc38	Biconvex	Medium throwing stick	Right handed	Jujube	1
1109	Plano-convex	Boomerang	Left handed	Unknown	Unknown
1107	Biconvex	Medium throwing stick	Right handed	Unknown	Unknown
1123	Elliptic	Heavy throwing stick	Right handed	Unknown	Unknown

Mass, surface, Dimensions

Designation	Mass(g)	Surface(cm ²)	Mass/surface Ratio (g/cm ²)	Wingspan(cm)	Height(cm)	Height/ Wingspan ratio
bo15	80	162	0.49	49	11.5	0.23
bo11	95	181.7	0.52	39	15.5	0.4
bo25	139	221	0.63	57	14.5	0.25
bg32	504	441	1.14	71	14	0.2
bg33	514	433	1.19	72	14.5	0.2
bl43	153	155	0.99	32	19	0.59
bl44	133	135	1.08	38	17	0.45
bc47	338	312	1.13	58	12	0.21
bc38	328	291	1.08	64.5	14.5	0.22
1109	69	193	0.36	42	17	0.4
1107	447	436.51	1.02	71	15	0.21
1123	575	300.55	1.91	79	10	0.13

Appendix 1.2

Relative Blade Twisting tuning (+/- mm)				
Designation	Attacking blade dihedral tuning	Attacking blade incidence tuning	Following blade dihedral tuning	Following blade incidence tuning
bo15	+2	+1	+10	+3.5
bo11	-5	+6	+6	+0.5
bo25	+4	+3	+7	-1
bg32	-4	-1.5	0	-0.5
bg33	-3	0	-6	0
bl43	-3	+2	-1	+1.5
bl44	-5	+1.5	-2	-2.5
bc47	0	+1.5	+2	+2.5
bc38	+5	+1	+3	-0.5
1109	+3.5	+5.5	+6	+1.5
1107	+3	-4.5	+4	0
1123	+1	-2.5	0	+5.5

Thickness, width, width on thickness ratio, type of flight and estimated maximum range

Designation	Mean Thickness (mm)	Mean width(mm)	Width/Thickness ratio	Type of flight	Max range(m)
bo15	6.67	28	0.24	Elliptic, high, returning	30
bo11	6	37.67	0.16	Circular, low, returning	25
bo25	9	30	0.3	Elliptic, high, returning	30
bg32	16.67	50	0.33	Straight	80
bg33	17	50	0.34	Straight	80
bl43	12.67	31.67	0.4	Straight slightly climbing	60
bl44	14	33.33	0.45	Straight slightly climbing	50
bc47	13.33	58.33	0.4	Straight	80
bc38	15.33	36.67	0.42	Straight	70
1109	5	37.33	0.13	High, returning*	30*
1107	12	58.33	0.21	Straight low*	80-100*
1123	14.67	36.67	0.4	Straight*	40-50*
			*according to the identified characteristics		