

Report from the Kiteboarding Working Party on potential Olympic Kiteboarding Equipment

Summary

The following paper gives a summary of the equipment used for competition Kiteboarding and the method of equipment control through equipment registration scheme and class rules.

BOARDS: The 2013 competition season saw the major manufacturer's continue to develop the state of the art within the framework of the box rule dimensions for the FORMULA kiteboard class.

Number of Manufacturers with Formula Boards Registered: 25 – See Appendix A

KITES: The class rules for each class share the same principles to avoid the use of exotic materials thus controlling costs. For further information see the attached list of approve kites.

Number of Manufacturers with Kites Registered for Formula Kite Events: 17 – See Appendix B

FINS: New sections within the class rules define fin limitations well.

EQUIPMENT CONTROL: The outcome is that the class equipment is better defined with the use as closed class rules and equipment control and evolution will be able to progress in parallel paths which should be easier to administer. The control system at the last European Championships successfully identified a series of boards of one model from one manufacturer whose data did not conform to that provided by the manufacturer for registration. The incident helped to educate the manufacturers and sailors on use of the scheme and should solve that problem of changes to production boards not being registered for the future.

CLASS: The IKA has proposed a FORMULA Kiteboard Class and a TWIN TIP kiteboard class to separate these two similar yet very different board uses. Current IKA Open Class Rules will continue to govern the rest of the disciplines. The other advantage to revision is that it clearly defines the separate disciplines within kiteboarding for course racing and then waves and freestyle competitions.

Conclusion

Kiteboarding is developing fast and the competition equipment appears to be carefully controlled with well managed development and evolution. The equipment control through the class rules and equipment registration scheme shows a suitable level of equipment control for high level racing such as the Olympic Sailing Competition.

Equipment Survey from European Championship

The IKA sponsored a survey at the last European Championships asking questions about sponsorship, equipment purchase and replacement. There were 82 sailors who took part in the survey, and 33 stated that they were Pro's.

Total Participants – 82; Males – 64, Females – 18

Boards	Mike's Lab	North	RRD	Temavento	Gaastra	Aguera	ASV	Airbrush	
# Used	9	21	10	23	6	6	5	4	
Kites	Ozone	North	RRD	Cabrinha	Gaastra	Airbrush (VXR)	ASV	ELF	FLY
# Used	37	17	11	4	3	4	7	2	2

Equipment Survey from 2013 North American's

San Francisco, St Francis YC – extracted from reported results. (Not all participants reported equipment)

Total Participants – 75; Males – 65, Females – 10

Boards	Mike's Lab	North	RRD	Temavento	Gaastra	Aguera	ASV
# Used	46	7	1	5	4	6	3
Kites	Ozone	North	RRD	Cabrinha	Gaastra	Airbrush (VXR)	ASV
# Used	39	8	3	11	2	1	8

Equipment Costs Review

The following table is for information only and gives the members of the committee a feel for the cost of equipment.

Rista Kite Racing Fin Set - \$650 USD, on the web. These are standard G10 material. Approximately 400 Euro for a set.

Model	Retail Price	MNA Price – Limited Offer
Gaastra Jet board 2013	1699 EUR	780 EUR
N+1 Foka board 2013	1200 EUR	900 EUR
F2 Lightning board 2013	1260 EUR	750 EUR
ASV XR70 board 2013	1320 EUR	712 EUR
Temavento RC70LG board 2013	1269 EUR	998 EUR
RRD Addiction Kite 18m 2013	1700 EUR	949 EUR
RRD Addiction Kite 9m 2013	1180 EUR	679 EUR
Gasstra Jet Kite 17m 2013	1399 EUR	604 EUR
Gaastra Jet Kite 10m 2013	1199 EUR	519 EUR
Cabrinha Velocity Kite 18m 2014	1550 EUR	915 EUR
Cabrinha Velocity Kite 9m 2014	1061 EUR	623 EUR
ASV XR Kite 17.5m 2013	1116 EUR	565 EUR
ASV XR Kite 9m 2013	868 EUR	419 EUR

Future Equipment Development

The past year has seen the mastery of foiling in the America's Cup and in the Kiteboard! The leading course racers are engaged in course racing foiling boards. Kite foil course racing is accomplished using the existing racing rules. The speeds are 20% faster than the non-foiling board racers with the same kites.



Figure 1 - Aguera 69S Raceboard – 2013

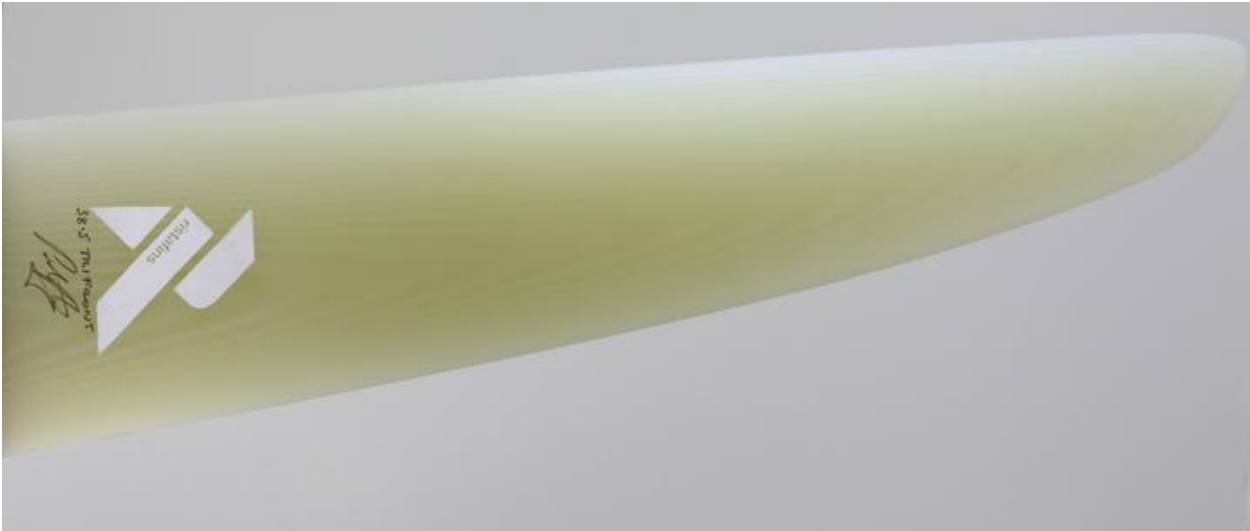


Figure 2 - Rista Fin



Figure 3 - Kite Foil Arrangements



IKA complete list of registered series production boards

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Brand	Model	Model Year	Eligible for racing from	max length along rocker		Width (mm)	Volume (liter)	Weight (kg)
				Length (mm)	Length (mm) ²			
Advance	Dragster	2010	01.01.2011		1710	515	57	6.5
Aguera	CR 53	2010	01.01.2011		1780	530	49	5.0
	CR 59	2010	01.01.2011		1780	590	54	5.0
	CR 64	2011	31.03.2011		1850	643	71	6.0
	CR 69	2011	31.03.2011		1850	693	74	6.5
	CR 69 LE	2011	15.09.2011		1885	698	85	6.1
	CR 69 LE	2012	06.02.2012		1897	697	85	6.2
	CR 69 LE HW	2012	16.07.2012		1895	698	83	6.0
	Aguera 69 S	2013	23.03.2013		1895	698	85	5.6
Airush	Monaro V1	2009	15.02.2011		1700	460		
	Monaro V2	2010	15.02.2011		1790	600		
	Monaro V3	2011	11.03.2011		1824	646	61	6.5
	Monaro V4	2012	15.04.2012		1898	695	86	6.9
	Monaro V5	2013	23.03.2013		1925	689	92	6.0
	Sector 52 V1	2010	01.01.2011		1730	520		
	Sector 60 V1	2010	01.01.2011		1720	600		
	Sector 54 V3	2012	01.05.2012		1740	536	32	4.2
	Sector 60 V3	2012	01.05.2012		1780	600	44	5.5
	Sector 66 V3	2012	01.05.2012		1820	659	63	6.3
	Sector One	2011	08.02.2012		1742	607	34	5.1
ASV	XR70	2013	23.03.2013		1898	697	87	6.2
Cabrinha	RC 183	2011	15.02.2011		1830	585	57	
	RC 178	2011	15.02.2011		1780	535	50	
	Race 183	2012/2013	14.04.2011		1836	587	57	5.0
	Race 188x65	2012/2013	14.04.2011		1877	640	76	5.6
	Race 188x69.5	2012/2013	14.04.2011		1878	697	83	6.1
	VMG	2013	23.03.2013		1885	698	83	6.5
F2	Lightning	2013	23.03.2013		1898	699	97	6.2
Flysurfer	FlyRace	2011	21.04.2011		1727	480	6	4.2
Gaastra	Jet	2013	23.03.2013		1911	699	91	6.3
Inkognito	RK V1	2013	23.03.2013	1897		698	91	5.9
Mikes Lab	ML 70	2012	04.02.2012	1880	1897	698	83	5.8
	Lab 70	2013	29.09.2012	1880	1897	698	89	6.2
MKD	MK IV	2013	23.03.2013		1887	695	85	6.0
N+1	Foka 13	2013	23.03.2013		1897	692	96	5.6
Naish	Venturi	2010	15.02.2011		1830	575	58	5.9
	Venturi	2012	30.03.2012		1926	700	87	8.4
Newind	WR Series 5.5	2010	01.01.2011		1704	567	45	4.7

Brand	Model	Model Year	Eligible for racing from	Length (mm)	Length (mm) ²	Width (mm)	Volume (liter)	Weight (kg)
	Crafty	2013	28.09.2012		1873	695	92	5.1
NJS	CF5	2011	17.06.2011		1812	651	81	5.3
	CF6	2012	08.03.2012		1880	690	84	5.3
North	Race LTD	2008	15.02.2011		1600	458		4.0
	Race LTD	2009	15.02.2011		1740	484	29	4.5
	Race LTD	2010	15.02.2011		1810	585	50	5.3
	Freerace	2010	24.02.2011		1664	470	26	4.2
	Race LTD	2011	07.03.2011		1864	690	86	6.3
	Race LTD 59	2012	13.02.2012		1849	602	66	5.6
	Race LTD 69	2012	13.02.2012		1890	699	85	5.4
	Race LTD	2013	23.03.2013	1885	1899	699	90	6.0
P1	Rio	2013	29.10.2012	1876	1890	698	74	6.5
Rick Shapes	RS12	2012	25.06.2012		1894	695	85	5.5
Royal	Stealth 52	2011	02.04.2011		1683	542	49	4.6
	Stealth 60	2011	29.03.2011		1827	630	64	6.1
	Stealth 70	2011	01.04.2011		1827	695	81	6.4
	Stealth Pro 70	2012	10.03.2012		1865	690	82	5.6
RRD	K-Race 50 LTD	2009	15.02.2011		1800	50		
	K-Race 65 LTD	2011	01.01.2011		1807	646	60	6.2
	K-Free 60 LTD	2012	10.08.2012		1750	600	38	5.2
	K-Race 70 LTD	2012	12.03.2012		1900	695	78	5.9
	K-Rapida Special	2012	22.09.2012	1895	1900	696	90	6.0
Sailfish Racing	SR 70	2013	23.03.2013		1900	699	103	6.2
Temavento	RC70LG	2012	21.06.2012		1874	700	84	5.3
	RC70LG	2013	23.03.2013	1896	1907	698	88	5.5
Tunafish	Race	2012	30.09.2012		1860	694	77	5.6
Underground	Race	2011	08.02.2012		1830	590	68	
Xtreme	HM 70	2012	29.09.2012		1878	699	84	5.7



IKA complete list of registered series production kites

18.09.2013

Brand	Model	Model Year	Eligible for racing from	Size	True Area (m2)	Struts / Cells	Weight
Advance	Kaiman	2012	10.04.2012	10		3	3.0
	Kaiman	2012	10.04.2012	12		3	4.1
	Kaiman	2012	10.04.2012	15		3	4.5
	Kaiman	2012	10.04.2012	17		3	4.8
Airush	VXR	2012	15.04.2012	10		5	3.2
	VXR	2012	15.04.2012	13		5	3.7
	VXR	2012	15.04.2012	15		5	4.1
	VXR	2012	15.04.2012	17		5	4.5
	VXR V2	2013	23.03.2013	18		3	4.0
	VXR V2	2013	23.03.2013	17		5	4.5
	VXR V2	2013	23.03.2013	15		5	4
	VXR V2	2013	23.03.2013	13		5	3.8
	VXR V2	2013	23.03.2013	10		5	3.2
	VXR V2	2013	23.03.2013	8		5	2.8
ASV	XR	2013	23.03.2013	9		5	2.6
	XR	2013	23.03.2013	11		5	3.1
	XR	2013	23.03.2013	14		5	3.6
	XR	2013	23.03.2013	17.5		5	4.0
Best	TS	2012/2013	11.08.2012	17		5	4.7
	TS	2012/2013	11.08.2012	15		5	4.4
	TS	2012/2013	11.08.2012	12		5	4.0
	TS	2012/2013	11.08.2012	10		5	3.4
	TS	2012/2013	11.08.2012	8		5	3.0
Cabrinha	Crossbow LW	2012/2013	10.03.2012	18		5	4.9
	Crossbow LW	2012/2013	10.03.2012	16		5	4.4
	Crossbow LW	2012/2013	10.03.2012	13		5	3.9
	Crossbow LW	2012/2013	10.03.2012	11		5	3.7
	Crossbow LW	2012/2013	10.03.2012	9		5	3.2
	Crossbow	2012	10.03.2012	11		7	3.7
	Crossbow	2012	10.03.2012	10		7	3.2
	Crossbow	2012	10.03.2012	9		7	3.1
	Crossbow	2012	10.03.2012	7		7	2.9
	Crossbow	2010	17.11.2013	ALL SIZES			
	Switchblade	2012	10.03.2012	16		5	4.6
	Switchblade	2012	10.03.2012	14		5	4.3
	Switchblade	2012	10.03.2012	12		5	4.0
	Switchblade	2012	10.03.2012	11		5	3.8
	Switchblade	2012	10.03.2012	10		5	3.6
	Switchblade	2012	10.03.2012	9		5	3.3
Switchblade	2012	10.03.2012	8		5	3.1	
Switchblade	2012	10.03.2012	7		5	2.9	
Switchblade	2013	19.08.2012	16		5	4.5	
Switchblade	2013	19.08.2012	14		5	4.2	
Switchblade	2013	19.08.2012	12		5	3.9	

Brand	Model	Model Year	Eligible for racing from	Size	True Area (m2)	Struts / Cells	Weight
	Switchblade	2013	19.08.2012	11		5	3.7
	Switchblade	2013	19.08.2012	10		5	3.5
	Switchblade	2013	19.08.2012	9		5	3.2
	Switchblade	2013	19.08.2012	8		5	3.0
	Switchblade	2013	19.08.2012	7		5	2.7
	Velocity	2014	23.03.2013	18		5	4.6
	Velocity	2014	23.03.2013	16		5	4.2
	Velocity	2014	23.03.2013	14		5	3.9
	Velocity	2014	23.03.2013	13		5	3.8
	Velocity	2014	23.03.2013	11		5	3.7
	Velocity	2014	23.03.2013	9		5	2.8
Elf	Joker-D8	2011	17.11.2013	11.3	ONLY SERIAL NUMBERS 1-48		
	Joker-4	2011	17.11.2013	16	ONLY SERIAL NUMBERS 1-52		
Flysurfer	Speed	2013	28.10.2012	8		29	2.4
	Speed	2013	28.10.2012	10		29	2.8
	Speed Deluxe	2013	28.10.2012	8		29	1.8
	Speed Deluxe	2013	28.10.2012	10		29	2.1
	Speed3 Deluxe	2011	17.11.2013	12	UP TO S/N FKSD3120D-yyyy-29806		
	Speed3 Standard	2011	17.11.2013	12	UP TO S/N FKSD3120-yyyy-29743		
	Speed3 Deluxe	2011	17.11.2013	15	UP TO S/N FKSD3150D-yyyy-29761		
	Speed3 Standard	2011	17.11.2013	15	UP TO S/N FKSD3150-yyyy-29756		
	Speed3 Deluxe	2011	17.11.2013	19	UP TO S/N FKSD3190D-yyyy-29674		
	Speed3 Standard	2011	17.11.2013	19	UP TO S/N FKSD3190S-yyyy-24365		
	Speed3Deluxe	2011	17.11.2013	21	UP TO S/N FKSD3210D-yyyy-29826		
Gaastra	Jet	2013	23.03.2013	17		5	3.9
	Jet	2013	23.03.2013	13		5	3.2
	Jet	2013	23.03.2013	10		5	2.8
	Jet	2013	23.03.2013	7		5	2.3
Gin	All Models	2012 and before	17.11.2013	ONLY BARCODES UP TO xxxxyyyyyxxxxxxxxx311211			
North	Dyno	2012	08.03.2012	10		7	3.2
	Dyno	2012	08.03.2012	13		7	3.6
	Dyno	2012	08.03.2012	15		7	4.0
	Dyno	2012	08.03.2012	17		7	4.4
	Dyno LTD	2012	01.09.2012	17		5	4.0
	Dyno LTD	2012	01.09.2012	13		5	3.2
	Dyno LTD	2012	01.09.2012	10		5	2.8
	Dyno	2013	23.03.2013	7		5	2.3
	Dyno	2013	23.03.2013	9		5	2.7
	Dyno	2013	23.03.2013	11		5	3.0
	Dyno	2013	23.03.2013	13		5	3.5
	Dyno	2013	23.03.2013	15		5	3.8
	Dyno	2013	23.03.2013	17		5	4.1
	Fuse	2012	08.03.2012	5		5	2.6
	Fuse	2012	08.03.2012	7		5	2.9
	Fuse	2012	08.03.2012	9		5	3.4
	Fuse	2012	08.03.2012	10		5	3.8
	Fuse	2012	08.03.2012	12		5	4.2
	Fuse	2012	08.03.2012	14		5	4.5
	Rebel	2012	08.03.2012	5		5	2.5
	Rebel	2012	08.03.2012	6		5	2.7
	Rebel	2012	08.03.2012	7		5	2.9
	Rebel	2012	08.03.2012	8		5	3.1
	Rebel	2012	08.03.2012	9		5	3.4

Brand	Model	Model Year	Eligible for racing from	Size	True Area (m2)	Struts / Cells	Weight
	Rebel	2012	08.03.2012	10		5	3.6
	Rebel	2012	08.03.2012	11		5	3.9
	Rebel	2012	08.03.2012	12		5	4.1
	Rebel	2012	08.03.2012	13		5	4.3
	Rebel	2012	08.03.2012	14		5	4.5
	Rebel	2013	14.08.2012	5		5	2.6
	Rebel	2013	14.08.2012	6		5	2.9
	Rebel	2013	14.08.2012	7		5	3.2
	Rebel	2013	14.08.2012	8		5	3.4
	Rebel	2013	14.08.2012	9		5	3.5
	Rebel	2013	14.08.2012	10		5	3.7
	Rebel	2013	14.08.2012	11		5	3.8
	Rebel	2013	14.08.2012	12		5	4.1
	Rebel	2013	14.08.2012	13		5	4.4
	Rebel	2013	14.08.2012	14		5	4.5
Ozone	Edge	2011/2012	01.01.2012	7		5	2.5
	Edge	2011/2012	01.01.2012	9		5	3.0
	Edge	2011/2012	01.01.2012	11		5	3.2
	Edge	2011/2012	01.01.2012	13		5	3.6
	Edge	2011/2012	01.01.2012	15		5	4.1
	Edge	2011/2012	01.01.2012	17		5	4.2
	Edge	2013	06.09.2012	7		5	2.4
	Edge	2013	06.09.2012	9		5	2.8
	Edge	2013	23.03.2013	10		5	3.1
	Edge	2013	06.09.2012	11		5	3.1
	Edge	2013	06.09.2012	13		5	3.6
	Edge	2013	06.09.2012	15		5	3.9
	Edge	2013	06.09.2012	17		5	4.1
	Edge	2013	23.03.2013	19		5	4.2
Peter Lynn	Fury	2012	19.06.2012	7		5	2.5
	Fury	2012	19.06.2012	9		5	2.9
	Fury	2012	19.06.2012	11		5	3.3
	Fury	2012	19.06.2012	13		5	3.7
	Fury Lite	2012	19.06.2012	15		5	4.2
	Fury Lite	2012	19.06.2012	17		5	4.8
	Fury Ultra Light	2012	19.06.2012	19		5	5.4
Royal	Rush	2012	10.03.2012	9		5	3.2
	Rush	2012	10.03.2012	12		7	4.0
	Rush	2012	10.03.2012	16		7	4.3
	Rush	2012	10.03.2012	19		5	4.6
	Rush LTD	2012	01.10.2012	19		7	4.2
	Rush LTD	2012	01.10.2012	16		7	3.9
	Rush LTD	2012	01.10.2012	12		7	3.6
	Rush LTD	2012	01.10.2012	9		5	3.2
RRD	Addiction MKIII	2012	10.04.2012	7		5	2.4
	Addiction MKIII	2012	10.04.2012	9		5	2.7
	Addiction MKIII	2012	10.04.2012	11		5	3.2
	Addiction MKIII	2012	10.04.2012	13		5	3.6
	Addiction MKIII	2012	10.04.2012	16		5	4.3
	Addiction MKIII	2012	10.04.2012	18		5	4.7
	Addiction MKIV	2013	23.03.2013	18		5	4.8
	Addiction MKIV	2013	23.03.2013	16		5	4.3
	Addiction MKIV	2013	23.03.2013	13		5	3.6
	Addiction MKIV	2013	23.03.2013	11		5	3.2

Brand	Model	Model Year	Eligible for racing from	Size	True Area (m2)	Struts / Cells	Weight
	Addiction MKIV	2013	23.03.2013	9		5	2.8
	Addiction MKIV	2013	23.03.2013	7		5	2.5
Slingshot	Rally	2013	01.10.2012	8		5	2.7
	Rally	2013	01.10.2012	9		5	2.9
	Rally	2013	01.10.2012	10		5	3.2
	Rally	2013	01.10.2012	12		5	3.7
	Rally	2013	01.10.2012	14		5	4.2
	Turbine	2012	01.10.2012	17		3	4.0
Tunafish	Tunafish	2012	14.08.2012	8		5	3.0
	Tunafish	2012	14.08.2012	10		5	3.5
	Tunafish	2012	14.08.2012	12		5	4.0
	Tunafish	2012	07.09.2012	15		5	5.0
Zeeko	Pursuit	2014	01.09.2014	17	17.0	5	4.8
	Pursuit	2014	01.09.2014	13.5	13.5	5	4.1
	Pursuit	2014	01.09.2014	11	10.8	5	3.7
	Pursuit	2014	01.09.2014	9.5	9.5	5	3.5
	Pursuit	2014	01.09.2014	7	7.0	5	2.9