

Declaration of Design and Performance (Acceptable Means of Compliance)

Main: SAFIRE 2 – 99 - 239

DDP No 64.073.022

Issue No 2

1 Name and address of manufacturer.

CIMSA Ingeniería de Sistemas, S.A.

P.I. El Ramassar – c/Vallès s/n

08520 Les Franqueses del Vallès – SPAIN

Ph: +34 93 861 7040 – Fax: +34 93 861 7041

Marketed by:

ICARUS Canopies, S.L.

P.I. El Ramassar – c/Vallès s/n

08520 Les Franqueses del Vallès – SPAIN

Ph: +34 93 861 7040 – Fax: +34 93 861 7041

2 Description and identification of article including:

a) Main Canopy for 1 Person, Type, sizes 99 sq ft to 239 sq ft

Description of Canopy: SAFIRE 2- 9 - cell canopy

Type of canopy	Main canopy, ram air, lightly shaped
Cells	9
Construction	I-beam chordwise
Connector links	SSMR3,5 Nominal load: 220 Kg Soft link 1000-125
Canopy Material	0 CFM NYLON RIP STOP – SASPA T70
Lines	Suspension lines: Vectran 550 lbs Steering lines: Vectran 1050 lbs

Parts List of canopy:

Canopy Part: 317530-XXX

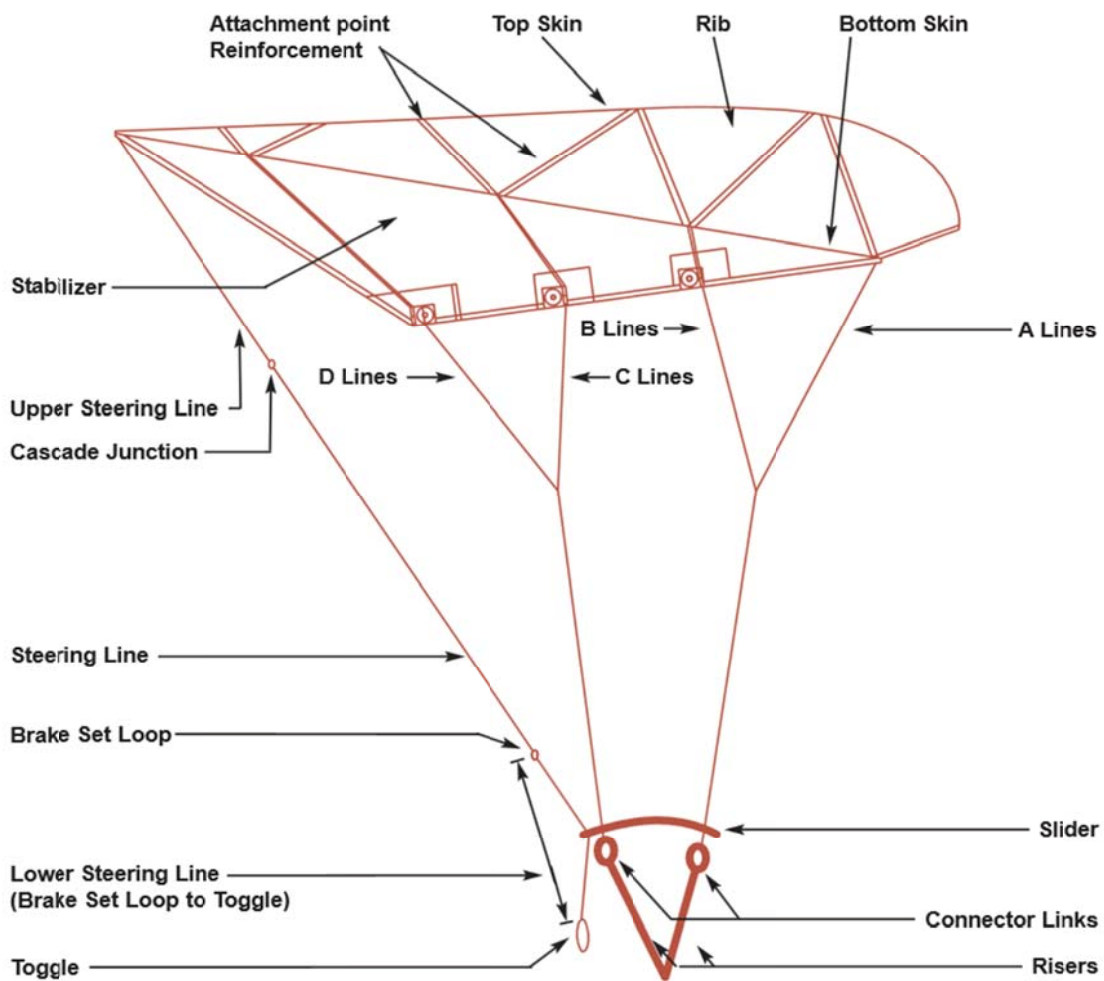
Slider Part: 217547

Connector: 373037 / 205149

b) Modification Standard Current revision shown on warning label

N/A (not applicable)

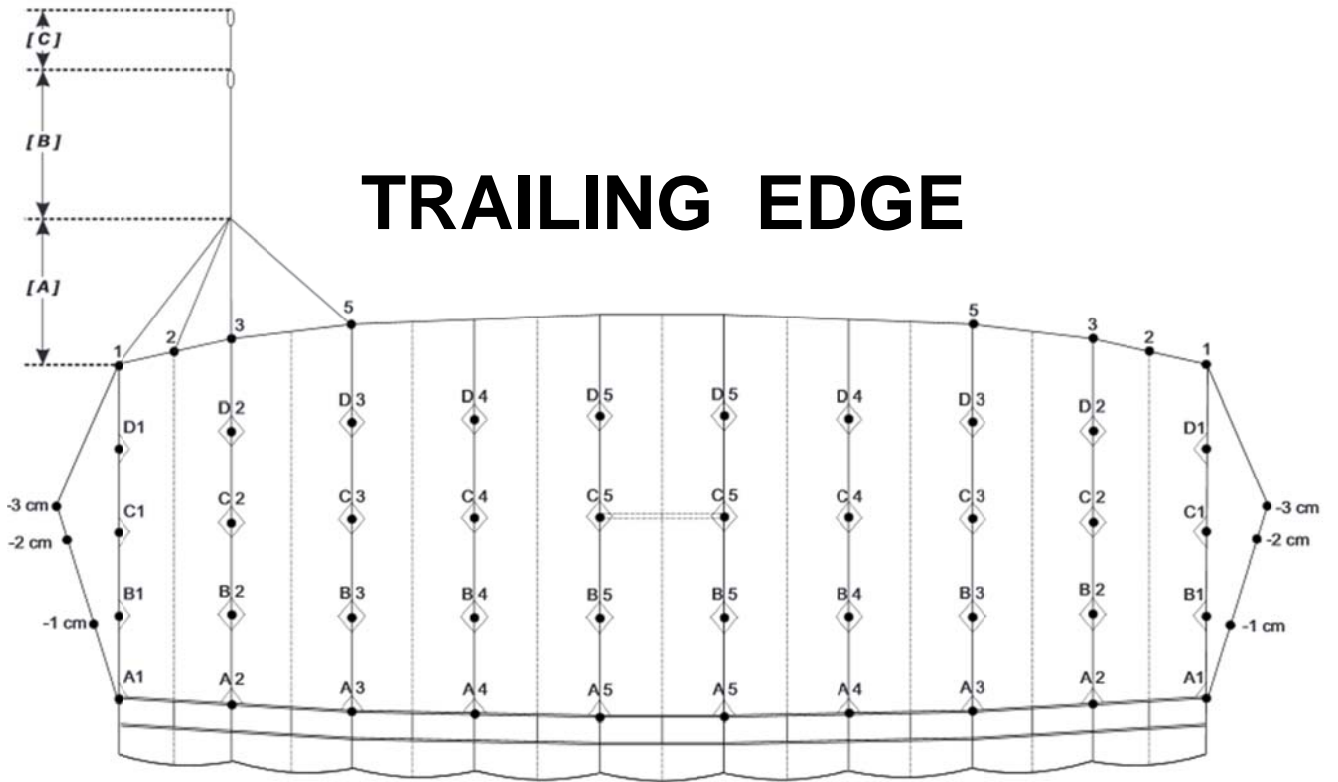
c) Master drawing record



d) Weight and overall dimensions: Standart-Size

SAFIRE 2 -Model	Size sq.ft.	Span		Chord ctr/tip		Canopy Weight in kg	Slider size in mm	
		(m)	(ft)	(m)	(ft)		Length	Width
SAFIRE 99	99	4,85	15,91	1,99	6,54	3,18	775	457
SAFIRE 109	109	5,09	16,70	2,09	6,86	3,18	775	457
SAFIRE 119	119	5,32	17,44	2,19	7,17	3,18	775	457
SAFIRE 129	129	5,54	18,16	2,28	7,47	3,18	775	457
SAFIRE 139	139	5,75	18,85	2,36	7,75	3,18	775	457
SAFIRE 149	149	5,95	19,52	2,45	8,03	3,63	775	457
SAFIRE 159	159	6,15	20,17	2,53	8,30	3,63	813	483
SAFIRE 169	169	6,34	20,79	2,61	8,55	3,63	813	483
SAFIRE 189	189	6,70	21,98	2,76	9,04	4,08	813	483
SAFIRE 209	209	7,05	23,12	2,90	9,51	4,54	813	483
SAFIRE 229	229	7,38	24,20	3,03	9,95	4,99	813	483
SAFIRE 239	239	7,54	24,72	3,10	10,16	4,99	813	483

Control System measured with brake locking loop held to the same point as the connector link. 3.5 stainless steel Maillon Rapide connector link is assumed. All measurements in centimeters.



TRAILING EDGE

LEADING EDGE

SAFIRE2	LINES	A	B	C	D	UPPER STEERING LINES	LOWER STEERING LINES	BRAKE SETTING TO SUGGESTED TOGGLE SETTING
SIZE 99	1	245,0	250,1	260,1	273,8	82,7	193,8	34,3
	2	245,0	250,5	261,8	277,5	78,2	193,8	34,3
	3	245,0	250,5	262,6	279,5	78,6	193,8	34,3
	4	245,1	250,5	262,9	280,2		193,8	34,3
	5	245,1	250,6	262,2	280,1	92,3	193,8	34,3
SIZE 109	1	259,6	265,0	275,5	289,8	86,9	205,4	35,9
	2	259,7	265,4	277,2	293,8	82,1	205,4	35,9
	3	259,7	265,4	278,1	295,8	82,6	205,4	35,9
	4	259,7	265,5	278,4	296,5		205,4	35,9
	5	259,7	265,5	277,7	296,4	96,9	205,4	35,9
SIZE 119	1	273,6	279,2	290,2	305,2	90,8	216,5	37,6
	2	273,7	279,6	292,0	309,3	85,8	216,5	37,6
	3	273,7	279,7	292,9	311,4	86,3	216,5	37,6
	4	273,7	279,7	293,2	312,2		216,5	37,6
	5	273,7	279,7	292,5	312,1	101,3	216,5	37,6
SIZE 129	1	287,0	292,8	304,2	319,9	94,6	227,1	39,1
	2	287,1	293,3	306,2	324,2	89,4	227,1	39,1
	3	287,1	293,3	307,1	326,4	89,9	227,1	39,1
	4	287,1	293,4	307,4	327,2		227,1	39,1
	5	287,1	294,4	306,7	327,0	105,5	227,1	39,1
SIZE 139	1	299,9	305,9	317,8	334,0	98,2	237,3	40,6
	2	300,0	306,4	319,8	338,5	92,8	237,3	40,6
	3	300,0	306,5	320,8	340,8	93,4	237,3	40,6
	4	300,0	306,5	321,1	341,6		237,3	40,6
	5	300,0	306,5	320,3	341,5	109,6	237,3	40,6
SIZE 149	1	312,3	318,6	330,9	347,7	101,7	247,2	42,0
	2	312,4	319,1	332,9	352,3	96,1	247,2	42,0
	3	312,4	319,1	333,9	354,6	96,7	247,2	42,0
	4	312,4	319,2	334,3	355,5		247,2	42,0
	5	312,4	319,2	333,5	355,4	113,5	247,2	42,0
SIZE 159	1	324,3	330,8	343,5	360,9	405,7	256,7	43,4
	2	324,4	331,3	345,6	365,6	400,0	256,7	43,4
	3	324,4	331,4	346,7	368,1	400,6	256,7	43,4
	4	324,5	331,4	347,0	369,0		256,7	43,4
	5	324,5	331,5	346,2	368,8	417,9	256,7	43,4
SIZE 169	1	336,0	342,7	355,8	373,7	108,4	266,0	44,8
	2	336,1	343,2	358,0	378,6	102,4	266,0	44,8
	3	336,1	343,3	359,0	381,1	103,1	266,0	44,8
	4	336,1	343,3	359,4	382,0		266,0	44,8
	5	336,1	343,3	358,6	381,8	120,9	266,0	44,8
SIZE 189	1	358,3	365,4	379,2	398,1	114,7	283,6	47,3
	2	358,4	365,9	381,5	403,3	108,4	283,6	47,3
	3	358,4	366,0	382,7	406,0	109,0	283,6	47,3
	4	358,4	366,0	383,0	407,0		283,6	47,3
	5	358,4	366,1	382,2	406,8	127,9	283,6	47,3
SIZE 209	1	379,5	386,9	401,5	421,4	120,6	300,4	49,8
	2	379,6	387,5	403,9	426,8	114,0	300,4	49,8
	3	379,6	387,6	405,1	429,6	114,7	300,4	49,8
	4	379,6	387,6	405,5	430,6		300,4	49,8
	5	379,6	387,6	404,6	430,5	134,6	300,4	49,8
SIZE 229	1	399,7	407,4	422,7	443,5	126,3	316,4	52,1
	2	399,8	408,0	425,2	449,2	119,4	316,4	52,1
	3	399,8	408,1	426,5	452,1	120,1	316,4	52,1
	4	399,8	408,1	426,9	453,2		316,4	52,1
	5	399,8	408,2	425,9	453,0	140,9	316,4	52,1
SIZE 239	1	409,4	417,3	432,9	454,2	129,1	324,1	53,2
	2	409,5	418,0	435,5	460,0	122,0	324,1	53,2
	3	409,5	418,1	436,8	463,0	122,7	324,1	53,2
	4	409,5	418,1	437,2	464,1		324,1	53,2
	5	409,6	418,1	436,2	463,9	144,0	324,1	53,2

3 Specification reference, i.e., JAR-TSO No. and Manufacturer's design specification.

N/A (not applicable)

4 The rated performance of the article directly or by reference to other documents.

Max. Suspended Weight: Standart-Size

Maximum Exit Weight (lbs)												
TALLA	99	109	119	129	139	149	159	169	189	209	229	239
Max.	188	207	226	246	265	284	300	300	300	300	300	300

Max. Suspended opening speed:

130 KT

Max. Repack Cycle:

as per country regulation

5 Particulars of approvals held for the equipment:

No approvals other than that of the manufacturer.

6 Reference to qualification test report.

N/A (not applicable)

7 Service and Instruction Manual reference number.

IC Main Canopy Manual 06.02.01.00 or a following current revision

8 Statement of compliance with appropriate (X)-TSO and any deviations therefrom.

N/A (not applicable)

9 (a) Statement of the level of compliance with the JAR-TSO in respect of the ability of the article to withstand various ambient conditions or to exhibit various properties.

N/A (not applicable)

(a) Working and ultimate pressure or loads.

N/A (not applicable)

(b) Limitations of voltage and frequency.

N/A (not applicable)

(c) Time rating (e.g. continuous, intermittent) or duty cycle.

N/A (not applicable)

(d) Limits of accuracy of measuring instruments.

N/A (not applicable)

(e) Whether the equipment is "flameproof" (explosion-proof).

N/A (not applicable)

(f) Whether the equipment is "fire-resistant".

N/A (not applicable)

(g) The compass safe distance.

N/A (not applicable)

(h) Level of radio interference.

N/A (not applicable)

(j) Radio and audio frequency susceptibility.

N/A (not applicable)

(k) Degree of vibration which the equipment will withstand.

N/A (not applicable)

(l) Degree of acceleration and shock which the equipment will withstand.

N/A (not applicable)

(m) Degree of waterproofing or sealing of equipment.

N/A (not applicable)

(n) Ability to withstand sand and dust.

N/A (not applicable)

(o) Ability to resist salt spray and aircraft fluids.

N/A (not applicable)

(p) Fungus resistance.

N/A (not applicable)

(q) Temperature and altitude category.

N/A (not applicable)

(r) Humidity category.

N/A (not applicable)

(s) Any other known limitations which may limit the application in the aircraft e.g. restrictions in mounting attitude.

N/A (not applicable)

10 A statement of criticality of software.

N/A (not applicable)

11. The declaration in this document is made under the authority of CIMSA Ingeniería de Sistemas S.A. CIMSA cannot accept responsibility for equipment used outside the limiting conditions stated above without their agreement.

Date: 21.12.2013

Signed: