

Declaration of Design and Performance (Acceptable Means of Compliance)

Main: CROSSFIRE 2 – 89 - 169

DDP No 64.073.064

Issue No 02

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 89 sq ft to 169 sq ft

Description of Canopy: CROSSFIRE 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: 317542-XXX

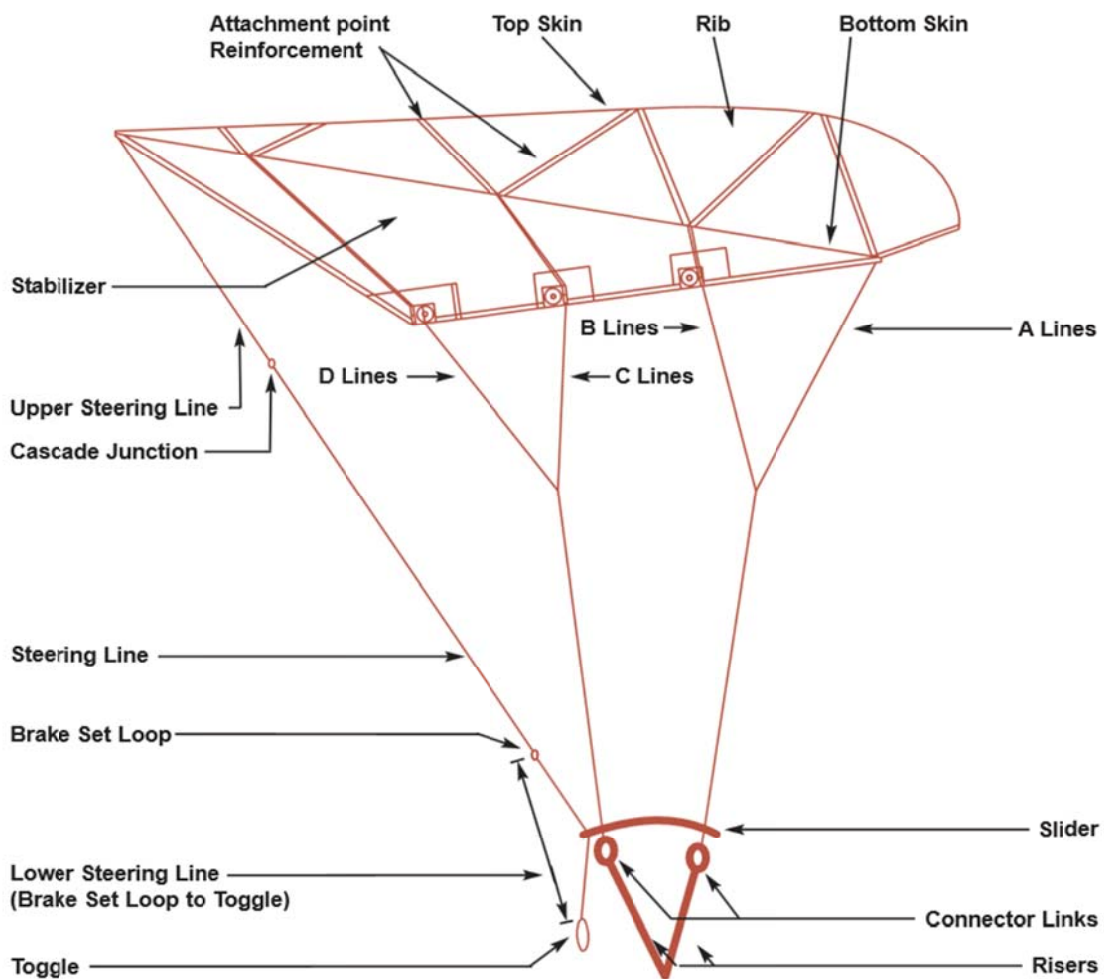
Slider Part: 260405

Connector: 373037 / 205149

b) Modification Standard Current revision shown on warning label

N/A (not applicable)

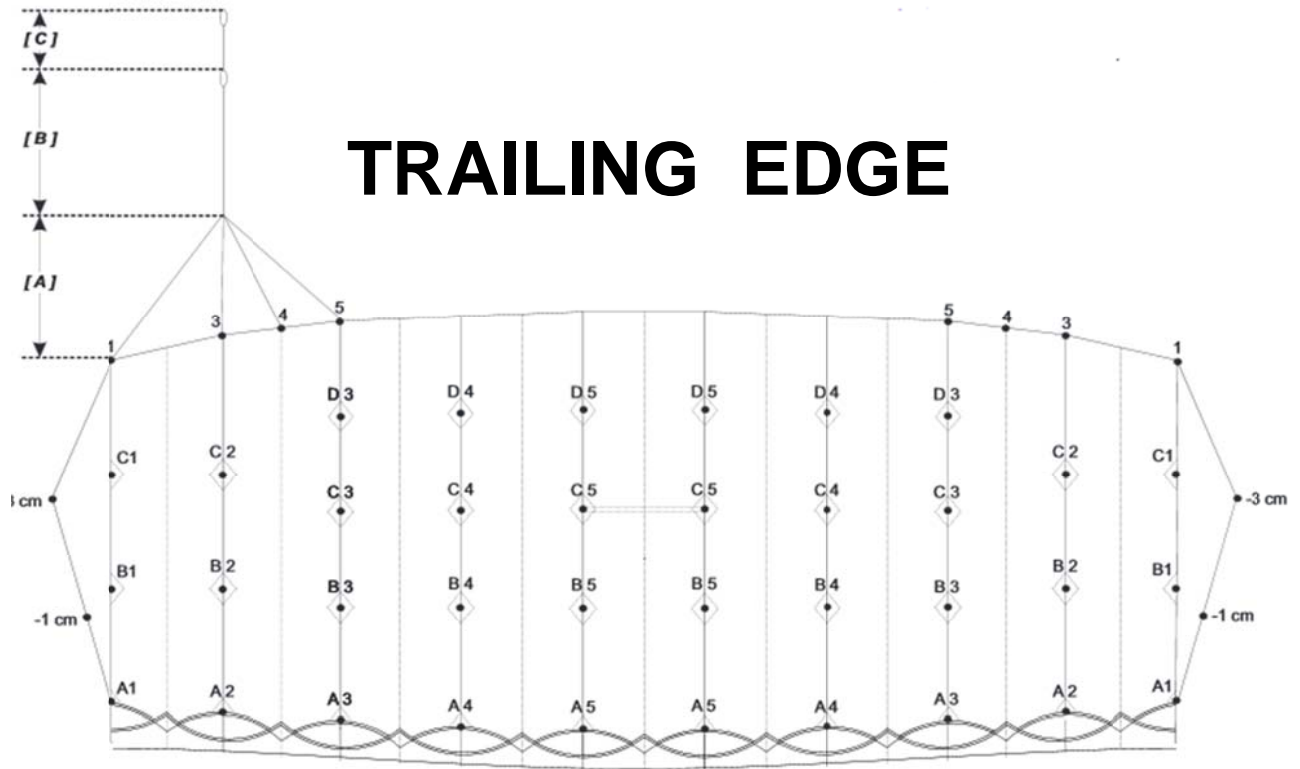
c) Master drawing record



d) Weight and overall dimensions: Standart-Size

CROSSFIRE 2 -Model	Size sq.ft.	Span		Chord ctr/tip		Canopy Weight in kg	Slider size in mm	
		(m)	(ft)	(m)	(ft)		Length	Width
CROSSFIRE 89	89	4,64	15,22	1,90	6,32	3,18	632	520
CROSSFIRE 99	99	4,89	16,06	2,01	6,58	3,18	667	520
CROSSFIRE 109	109	5,14	16,85	2,11	6,91	3,18	699	520
CROSSFIRE 119	119	5,37	17,60	2,20	7,22	3,18	731	520
CROSSFIRE 129	129	5,59	18,33	2,29	7,52	3,18	761	520
CROSSFIRE 139	139	5,80	19,02	2,38	7,80	3,18	776	520
CROSSFIRE 149	149	6,00	19,70	2,46	8,08	3,18	776	520
CROSSFIRE 159	159	6,20	20,34	2,54	8,33	3,18	776	520
CROSSFIRE 169	169	6,40	20,99	2,62	8,59	3,18	776	520

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

CROSSFIRE2	LINES	A	B	C	D	UPPER STEERING LINES	LOWER STEERING LINES	BRAKE SETTING TO SUGGESTED TOGGLE SETTING
TALLA 89	1	238,8	245,7	257,0		82,8	174,0	44,3
	2	239,0	246,8	260,5			174,0	44,3
	3	237,9	243,3	254,7	270,8	79,6	174,0	44,3
	4	237,8	243,3	255,0	271,4	84,7	174,0	44,3
	5	237,9	243,3	255,2	272,1	92,9	174,0	44,3
TALLA 99	1	254,7	262,0	273,9		87,4	185,8	46,8
	2	254,9	263,1	277,6			185,8	46,8
	3	253,7	259,4	271,5	288,4	84,0	185,8	46,8
	4	253,7	259,4	271,8	289,1	89,4	185,8	46,8
	5	253,7	259,4	272,0	289,8	98,1	185,8	46,8
TALLA 109	1	269,8	277,4	290,0		91,8	197,0	49,1
	2	270,0	278,7	293,8			197,0	49,1
	3	268,8	274,8	287,5	305,2	88,2	197,0	49,1
	4	268,8	274,8	287,7	305,9	93,9	197,0	49,1
	5	268,8	274,8	288,0	306,7	103,0	197,0	49,1
TALLA 119	1	284,2	292,2	305,3		95,9	207,7	51,3
	2	284,5	293,5	309,3			207,7	51,3
	3	283,2	289,4	302,7	321,2	92,2	207,7	51,3
	4	283,1	289,4	303,0	322,0	98,1	207,7	51,3
	5	283,2	289,4	303,2	322,8	107,6	207,7	51,3
TALLA 129	1	298,1	306,4	320,0		99,9	217,9	53,4
	2	298,3	307,7	324,2			217,9	53,4
	3	297,0	303,5	317,3	336,6	96,0	217,9	53,4
	4	296,9	303,5	317,6	337,4	102,2	217,9	53,4
	5	297,0	303,5	317,9	338,2	112,1	217,9	53,4
TALLA 139	1	311,0	320,0	334,2		103,8	227,8	55,4
	2	311,7	321,4	338,5			227,8	55,4
	3	310,2	317,0	331,3	351,4	99,7	227,8	55,4
	4	310,2	317,0	331,6	352,2	106,1	227,8	55,4
	5	310,3	317,0	331,9	353,0	116,4	227,8	55,4
TALLA 149	1	324,2	333,2	347,8		107,5	237,3	57,4
	2	324,5	334,6	352,3			237,3	57,4
	3	323,0	330,0	344,9	365,6	103,2	237,3	57,4
	4	323,0	330,0	345,2	366,5	109,9	237,3	57,4
	5	323,1	330,0	345,5	367,3	120,5	237,3	57,4
TALLA 159	1	336,7	345,9	361,0		111,0	246,5	59,3
	2	337,0	347,4	365,6			246,5	59,3
	3	335,4	342,6	358,0	379,4	106,7	246,5	59,3
	4	335,4	342,7	358,3	380,3	113,6	246,5	59,3
	5	335,4	342,6	358,6	381,2	124,6	246,5	59,3
TALLA 169	1	348,7	358,2	373,8		114,5	255,4	61,1
	2	349,0	359,7	378,6			255,4	61,1
	3	347,4	354,9	370,7	392,8	110,0	255,4	61,1
	4	347,4	354,9	371,0	393,7	117,1	255,4	61,1
	5	347,4	354,9	371,3	394,6	128,4	255,4	61,1

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	89	99	109	119	129	139	149	159	169
Max.	178	198	218	238	258	278	298	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: