

Declaration of Design and Performance (Acceptable Means of Compliance)

Reserve:NANO
DDP No 64.....
Issue No 01

1 Name and adress of manufacturer.

CIMSA Ingeniería de Sistemas, S.A.
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08520 Las Franquesas del Vallés – SPAIN
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Marketed by:

ICARUS Canopies, S.L.
P.I. El Ramassar – c/Valles s/n
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2 Description and identification of article including:

a) Reserve Canopy for 1 Person, Type, sizes 99 sq ft to 253 sq ft

Description of Canopy: NANO Reserve 7 -cell canopy

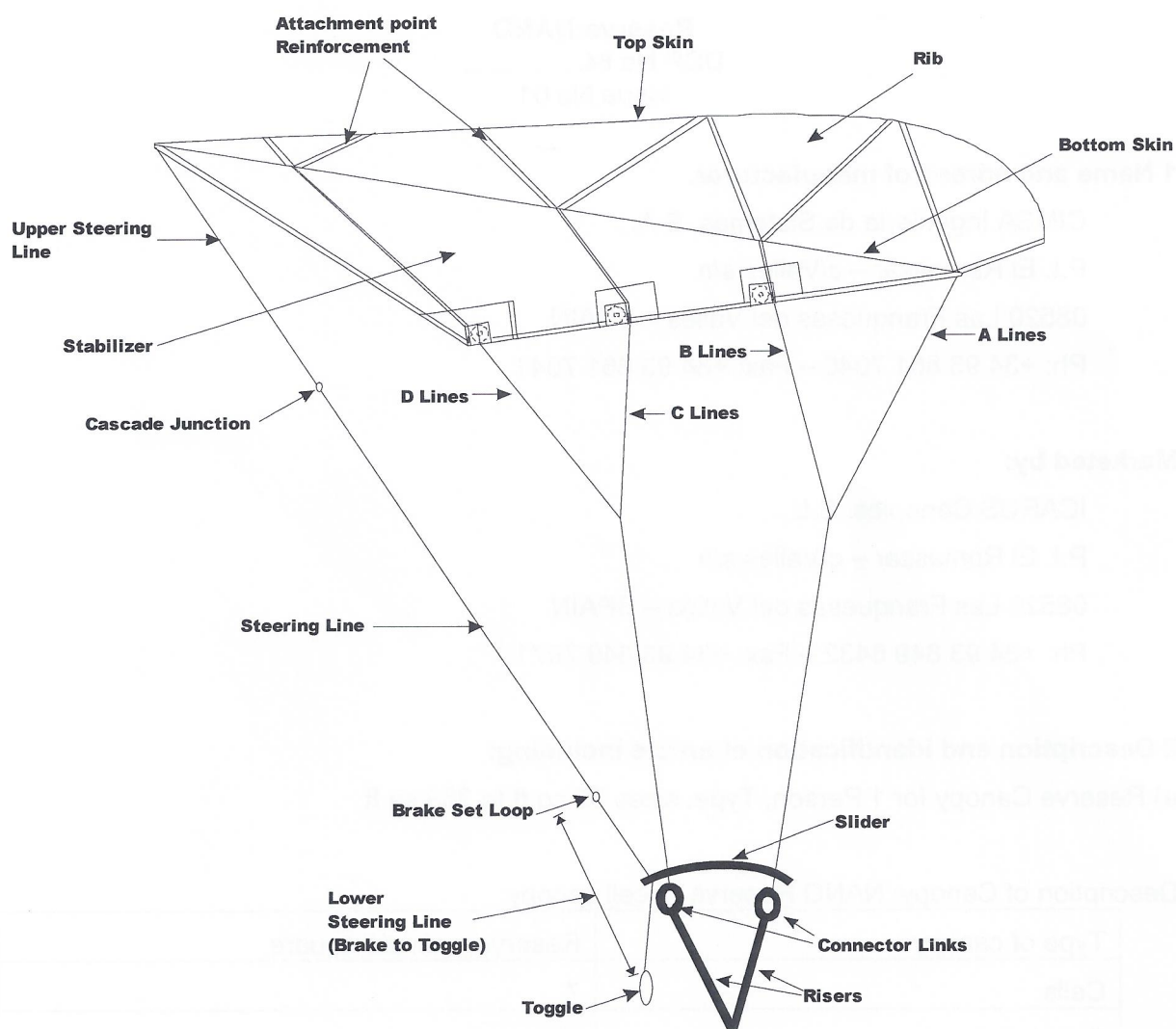
Type of canopy	Reserve, ram air, square
Cells	7
Construction	I-beam chordwise
Connector links	SSMR5 Nominal load: 450 kg Soft link 1500-147
Canopy Material	0-3 CFM NYLON RIP STOP – SASPA T34
Lines	Suspension lines: Spectra 725 lbs Steering lines: Spectra 1000 lbs

Parts List of canopy:

Canopy Part #: 317523-1- XXX
Slider Part #:
Connector : 373036 / 200193

b) Modification Standard Current revision shown on warning label
AS8015 Rev. B

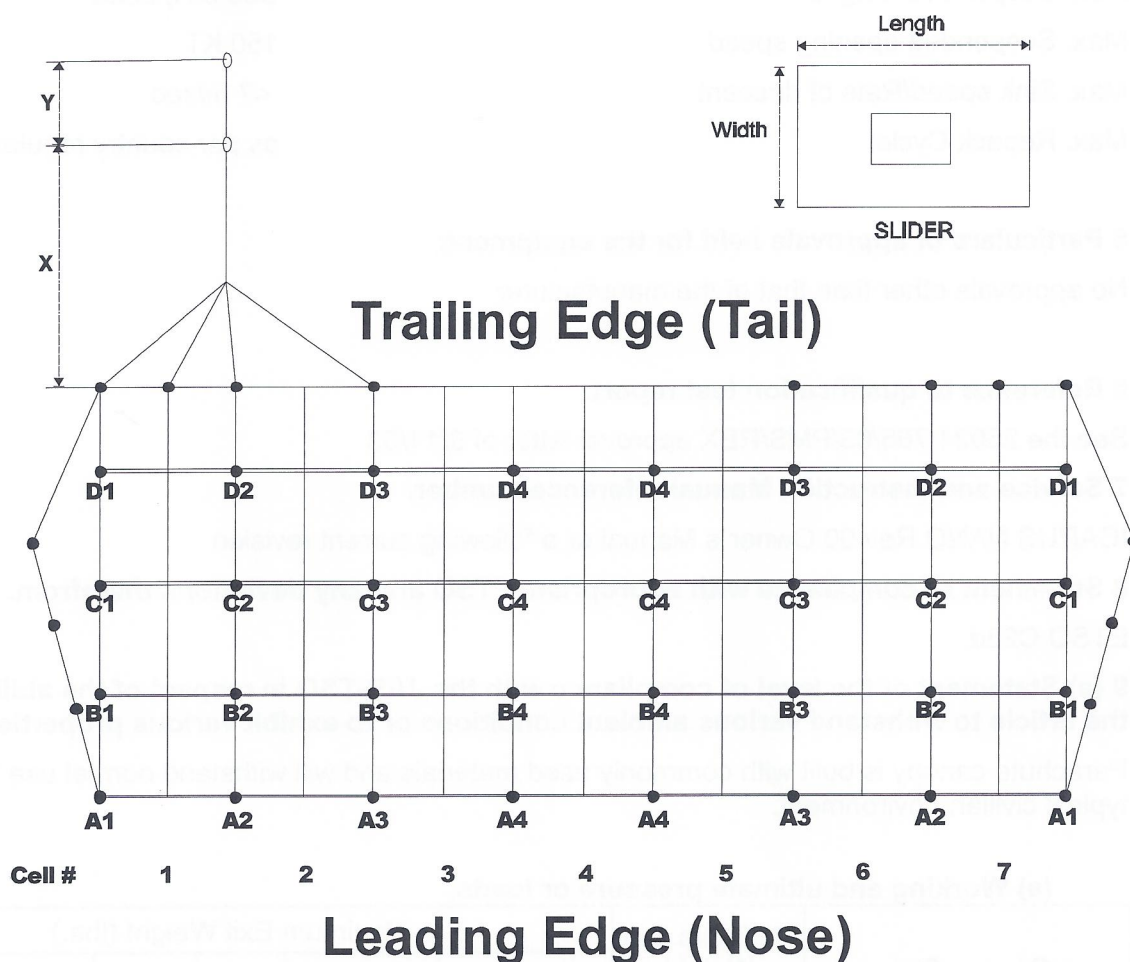
c) Master drawing record



d) Weight and overall dimensions:

NANO - Model	Size (ft ²)	Span		Chord ctr/tip		Canopy Weight in kg	Slider size in mm	
		(m)	(ft)	(m)	(ft)		Length	Width
NANO 99	99	4.4	14.3	2.1	6.8	2	660	440
NANO 106	106	4.6	14.8	2.2	7.1	2	689	455
NANO 113	113	4.7	15.3	2.3	7.3	2.1	711	470
NANO 126	126	5.0	16.2	2.4	7.7	2.2	751	496
NANO 143	143	5.3	17.2	2.5	8.2	2.3	800	529
NANO 160	160	5.6	18.2	2.7	8.7	2.5	846	559
NANO 176	176	5.9	19.1	2.8	9.1	2.6	888	587
NANO 193	193	6.1	20.0	2.9	9.5	2.7	929	614
NANO 218	218	6.5	21.3	3.1	10.1	2.9	988	653
NANO 235	235	6.8	22.1	3.2	10.5	3.1	1026	678
NANO 253	253	7.0	22.9	3.4	10.9	3.2	106.4	70.3

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.



Size	A Lines (cm)	B Lines (cm)	C Lines (cm)	D Lines (cm)	X (cm)	Y (cm)
99	226.0	232.0	247.4	264.7	255.2	52.2
106	235.7	241.9	257.8	275.7	265.5	53.6
113	245.0	251.4	267.9	286.3	275.5	54.9
126	261.6	268.4	285.8	305.2	293.2	57.1
143	282.1	289.3	307.9	328.6	315.0	60.0
160	301.4	309.0	328.7	350.6	335.6	62.6
176	318.7	326.6	347.2	370.2	353.9	65.0
193	336.1	344.5	366.1	390.1	372.6	67.4
218	360.5	369.4	392.3	417.9	398.5	70.8
235	376.3	385.5	409.3	435.9	415.4	72.9
253	392.4	402.0	426.7	454.2	432.5	75.1

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

This product is designed for use as a reserve parachute for 1 Person during intentional jumping with a single harness-container system. It is approved under the ETSO C23d by authorisation No. EASA.210.355 and TSO-C23d by letter of January 13, 2006.

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

Max. Suspended weight:	See 9.A) Load
Max. Suspended opening speed:	150 KT
Max. Sink speed/Rate of descent	<7 m/sec
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.

See the 25031 766/03/PMS/REX approval letter of 9/11/03

7 Service and Instruction Manual reference number.

ICARUS NANO Rev 00 Owner's Manual or a following current revision

8 Statement of compliance with appropriate ETSO and any deviations therefrom.

ETSO C23d.

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.

Parachute canopy is built with commonly used materials and will withstand normal use in typical civilian environment.

(a) Working and ultimate pressure or loads.

Canopy Size	Minimum Exit Weight	Maximum Exit Weight (lbs.)					
		Student	Novice	Int.	Adv.	Expert	Max
99	N/S	N/S	N/S	N/S	N/S	N/S	131
106	N/S	N/S	N/S	N/S	N/S	N/S	140
113	N/S	N/S	N/S	N/S	N/S	N/S	150
126	N/S	N/S	N/S	N/S	N/S	N/S	167
143	N/S	N/S	N/S	N/S	N/S	N/S	189
160	N/S	N/S	N/S	N/S	N/S	N/S	212
176	N/S	N/S	N/S	N/S	N/S	N/S	233
193	N/S	N/S	N/S	N/S	N/S	N/S	255
218	N/S	N/S	N/S	N/S	N/S	N/S	255
235	N/S	N/S	N/S	N/S	N/S	N/S	255
253	N/S	N/S	N/S	N/S	N/S	N/S	255

N/S = Not Suggested

(b) Limitations of voltage and frequency.

Not applicable

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

The service/operational life is not regulated

(d) Limits of accuracy of measuring instruments.

No measurements needed

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

The equipment is not flameproof

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

The equipment is not fire resistant

(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.

The equipment is not waterproof or sealed.

(n) Ability to withstand sand and dust.

Refer to ICARUS NANO Rev 00 Owner's Manual

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

The equipment should not be exposed to Solenspray and/or aircraft fluids of any type.

Should it be necessary to remove such soil, information as to the appropriate procedures is provided in the operations manual.

(p) Fungus resistance.

The equipment is manufactured exclusively from synthetic materials and consequently resistant to fungus

(q) Temperature and altitude category.

Refer to ICARUS NANO Rev 00 Owner's Manual

(r) Humidity category.

ICARUS NANO Rev 00 Owner's Manual

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

(NOTE: The "categories" referred to are those listed in the current issue of EUROCAE ED-14/ RTCA document DO-160).

10 A statement of criticality of software.

No software in parachute.

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:

December 28th, 2013

Signed:

