

**Declaration of Design and Performance  
(Acceptable Means of Compliance)**

**Main: AERODYNE PILOT 7**

DDP No  
Issue No 01

**1 Name and address of manufacturer.**

AERODYNE RESEARCH LLC  
1407 FlightLine Blvd  
Deland  
Florida  
32724  
USA

**2 Description and identification of article including:**

a) Main Canopy for 1 Person, Type, sizes 117 sq ft to 247 sq ft

Description of Canopy:

Type of canopy	Main Canopy Semi Elliptical
Cells	7 (Seven)
Construction	Chordwise I-Beam Construction
Connector links	4 x A-Links (Softlinks)
Canopy Material	ZP, ZPX, F111, FX11
Lines	HMA, ZLX, DYNEEMA, DACRON

Parts List of canopy:

Canopy Part #: PT7XXXX  
Slider Part #: PT7XXXXSL  
Connector : ALINKTYP17

- b) Modification Standard Current revision shown on warning label : VER0.0
- c) Master drawing record : PT7 VER 0.0
- d) Weight and overall dimensions :

**Declaration of Design and Performance  
(Acceptable Means of Compliance)**

**Main: AERODYNE PILOT 7**

DDP No  
Issue No 01

Wing Area Sq. Ft.	Span Ft.	Chord Max	Chord Min	Weight Kg.	Slider mm.
117	15.18	7.95	6.76	2.15	690x515 Domed
137	16.43	8.59	7.30	2.22	690x515 Domed
147	17.02	8.84	7.52	2.31	720x550 Domed
167	18.14	9.37	7.75	2.38	720x550 Domed
187	19.19	9.92	7.75	2.45	720x630 Flat
207	20.19	10.43	8.62	2.48	720x630 Flat
227	21.15	10.92	9.03	2.56	720x630 Flat
247	22.06	11.39	9.41	2.63	720x630 Flat

# Declaration of Design and Performance (Acceptable Means of Compliance)

## Main: AERODYNE PILOT 7

DDP No  
Issue No 01

### PILOT 7

ENSURE LOOPS ARE HELD EVENLY AND SECURELY. EACH LINE TO BE LOADED TO 4.5KG DURING MEASUREMENT. MEASURE THE DEPLOYMENT BRAKE SETTING WITH THE TOGGLES STOWED. MEASURE THE FULL FLIGHT SETTING WITH THE TOGGLES UNSTOWED.

MEASURE FROM END OF SUSPENSION LINE LOOP TO BARTACK ON SUSPENSION LINE ATTACHMENT TAB.

Canopy	117	137	147	167	187	207	227	247
AXY1	2450	2665	2850	3030	3195	3360	3525	3715
A1-B1	30	30	35	30	35	35	40	40
A1-C1	170	185	195	200	210	220	230	245
A1-D1	355	385	405	420	440	460	480	510
AXY2	2450	2665	2850	3030	3195	3360	3525	3715
A2-B2	35	40	45	40	45	45	50	55
A2-C2	200	215	230	235	245	265	270	290
A2-D2	420	450	480	495	520	545	570	605
AXY3	2450	2665	2850	3030	3195	3360	3525	3715
A3-B3	40	45	45	45	50	50	55	60
A3-C3	220	230	250	255	270	285	295	305
A3-D3	455	485	515	535	565	590	615	645
LCL	1810	1870	2025	2060	2155	2250	2420	2605
TOGGLE	500	530	480	510	700	730	575	600
ULC1	960	1025	1080	1140	1190	1245	1300	1360
UCL3	995	1060	1120	1180	1230	1287	1340	1400
UCL4	1050	1120	1180	1245	1300	1360	1410	1480
UCL5	1220	1300	1370	1440	1450	1514	1580	1650

All dimensions in mm

VER 0.0

## Declaration of Design and Performance (Acceptable Means of Compliance)

Main: AERODYNE PILOT 7

DDP No  
Issue No 01

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

This product is designed for use as a main parachute for 1 Person during intentional jumping with a single harness-container system. It is approved under the by letter of

The Aerodyne PILOT7 is a Main Canopy and hence does NOT require a TSO

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

WL	Student/Novice 1.0		Intermediate 1.1		Advanced 1.3		Maximum 1.6		
	Size	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg
	117	117	53	129	58	152	69	187	85
	137	137	62	151	68	178	81	219	99
	147	147	67	162	73	191	87	235	107
	167	167	76	184	83	217	98	267	121
	187	187	85	206	93	243	110	299	136
	207	207	94	228	103	269	122	331	150
	227	227	103	250	113	295	134	363	165
	247	247	112	272	123	321	146	395	179

Max. Suspended weight:  
Max. Suspended opening speed:  
Max. Sink speed/Rate of descent

Max. Repack Cycle:

See Table above  
130 KT  
± 5 m/sec (depends on  
numerous factors)  
180 days

## Declaration of Design and Performance (Acceptable Means of Compliance)

Main: AERODYNE PILOT 7

DDP No  
Issue No 01

**5 Particulars of approvals held for the equipment:**

**6 Service and Instruction Manual reference number.**

Main Manual AERODYNE MAIN PACKING MANUAL,

**7 (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.**

**(a) Working and ultimate pressure or loads.**

WL	Student/Novice 1.0		Intermediate 1.1		Advanced 1.3		Maximum 1.6	
	Lbs	Kg	Lbs	Kg	Lbs	Kg	Lbs	Kg
117	117	53	129	58	152	69	187	85
137	137	62	151	68	178	81	219	99
147	147	67	162	73	191	87	235	107
167	167	76	184	83	217	98	267	121
187	187	85	206	93	243	110	299	136
207	207	94	228	103	269	122	331	150
227	227	103	250	113	295	134	363	165
247	247	112	272	123	321	146	395	179

There is NO MINIMUM Exit weight for the Aerodyne PILOT7 Canopy

# Declaration of Design and Performance (Acceptable Means of Compliance)

Main: AERODYNE PILOT 7

DDP No  
Issue No 01

- (b) Limitations of voltage and frequency.
- (c) Time rating (e.g. continuous, intermittent) or duty cycle.
- (d) Limits of accuracy of measuring instruments.
- (e) Whether the equipment is "flameproof" (explosion-proof).
- (f) Whether the equipment is "fire-resistant".
- (g) The compass safe distance.
- (h) Level of radio interference.
- (j) Radio and audio frequency susceptibility.
- (k) Degree of vibration which the equipment will withstand.
- (l) Degree of acceleration and shock which the equipment will withstand.
- (m) Degree of waterproofing or sealing of equipment.
- (n) Ability to withstand sand and dust.
- (o) Ability to resist salt spray and aircraft fluids.
- (p) Fungus resistance.
- (q) **Temperature and altitude category.**  
The related materials and consequently the equipment can be used in a temperature range from -40 °C to +93 °C
- (r) **Humidity category.**
- (s) **Any other known limitations which may limit the application in the aircraft e.g. restrictions in mounting attitude.**

10 A statement of criticality of software.

11. The declaration in this document is made under the authority of AERODYNE RESEARCH LLC cannot accept responsibility for equipment used outside the limiting conditions stated above without their agreement.

Date: 11 January 2018

  
Signed:  
A D Hayhurst  
Managing Director  
Global Operations



Aerodyne Research LLC  
Unit 14, 1407 Flightline Blvd  
Deland, Florida, 32724, USA  
Tel: +1 (813) 891 6300  
Fax: +1 (813) 891 6315  
Email: [info@flyaerodyne.com](mailto:info@flyaerodyne.com)