

Speed of opening, stability, descent rate

Inspection certificate number: **EP_376.2025**

Test report

Manufacturer data

Manufacturer name: **Apco Aviation Ltd.**
Representative: **Mr. Cohn Jonathan**
Street: **Chalamish 7, Caesarea Industrial Park**
Postcode / Place: **3088900 Caesarea**
Country: **Israel**

Sample data

Name:	Mayday Square	Size:	160
Steerable ⁽¹⁾ :	No	Maximum weight in flight ⁽²⁾ [kg]:	160
Weight ⁽³⁾ [kg]:	2.14	Volume packed [cm ³]:	6900
Serial number:	2/34 386234		

Test result⁽⁴⁾

	Test no. 1	Test no. 2
Measured opening time [s]:	3.25	3.95
Unsteerable parachute and steerable parachute with locked controls (if applicable)		
Measured sink rate [m/s] < 5.5:	5.13	4.88
Stability test:	n/a	n/a
Steerable parachute and steerable parachute with unlocked controls (if applicable)		
Measured sink rate [m/s] < 4.0:	n/a	n/a
Stability test:	n/a	n/a
Test of steerability:	n/a	n/a

Test data

	Test no. 1	Test no. 2
Place of test:	Villeneuve	Villeneuve
Date of test:	15.10.2025	12.11.2025
Atmosphere AGL:		
[°C]	13	10
RH [%]	77	77
[hPa]	973	970
Wind [m/s]	0.2	0.2
Corrected mass with uncertainty (m _{corr}) [kg]:	155.51	156.66
If steerable with brake system		
Place of test:	n/a	n/a
Date of test:	n/a	n/a
Atmosphere AGL:		
[°C]	n/a	n/a
RH [%]	n/a	n/a
[hPa]	n/a	n/a
Wind [m/s]	n/a	n/a
Corrected mass with uncertainty (m _{corr}) [kg]:	n/a	n/a

Strength test - 40 m/s opening shock

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Manufacturer data

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Representative: **Mr. Cohn Jonathan**
Street: **Chalamish 7, Caesarea Industrial Park**
Postcode / Place: **3088900 Caesarea**
Country: **Israel**

Sample data

Name:	Mayday Square	Size:	160
Steerable ⁽¹⁾ :	No	Maximum weight in flight ⁽²⁾ [kg]:	160
Weight ⁽³⁾ [kg]:	2.14	Volume packed [cm ³]:	6900
Serial number:	1/34 386233		

Test data

Test no. 1

Test no. 2

Place of test:	St-Cierges	St-Cierges
Date of test:	11.09.2025	11.09.2025
Maximum weight [kg]	n/a	n/a
Inspector:	Olivier Zoller	Olivier Zoller
Atmosphere AGL:		
	[°C] 16	17
	RH [%] 68	63
	[hPa] 942	943
	Wind [m/s] 4	6

Test results

Test no. 1

Test no. 2

Strength test (40m/s shock) :	POSITIVE	POSITIVE
Aircraft speed uncertainty K=2 [m/s] ⁽²⁾ :	n/a	n/a

Identification number: **MISC_107.2019**

Apco Aviation Ltd Inner Mayday Square one size

Result summary

Inner container strength test. Applied minimum 700 N for at least 10 seconds and at maximum strength.

Duration at the required strength: **13.2 [s]**

The maximum strength before broken: **785.0 [N]**

Place of declaration

Villeneuve

Date of issue:

15.02.2019

Managing director

Alain Zoller

Signature:



This signature approve the validity of the test report, and can be included in the inspection certificate 71.5.1

Air Turquoise SA has thoroughly tested the sample of riser/bridle mentioned above and certifies its conformity with the standards: **EN 12491: 2015 chapter 5.3.2 and LTF NFL 91/09 chapter 6.1.8**

Instrument	Validity	Manufacturer	Type no.	S/N
Load Cell (axial)	01.06.2021	Burster GmbH (DE)	8431-10000	1185483
Winch	check every 12 month	Arwin	300/600	N/A
Geos n° 11 Skywatch	08.05.2017	JDC elec.	Geos n° 11	22

⁽¹⁾ Inner container: container of the folded emergency parachute.

⁽²⁾ Inner container (the connection between handgrip and inner container) is loaded at min 700 [N] over 10 seconds. The deployment system is loaded until breaking. Each component is tested.

⁽³⁾ Calculated value include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measured lies within the assigned range of values with a probability of 95%.

Identification number: **MISC_291.2024****Apco Aviation Ltd MayDay bridle****Result summary**

Maximum strength for riser, bridle: **24330.7 [N]**
Duration at the requested load: **1.3 [s]**

Place of declaration: **Villeneuve**
Date of issue: **26.11.2024**
Managing director: **Andrea Wigger**

Signature:



This signature approves the validity of the test report

Air Turquoise SA has thoroughly tested the sample of emergency parachute mentioned above and certifies its conformity with the standards: **EN 1651:2018+A1:2020⁽⁴⁾** and **NFL 2-565-20 chapter 6.1.4**

Instrument	Validity	Manufacturer	Type no.	S/N
Load sensor	23.08.2028	HBM	1-S9M/50KN-1	31314652
Geos n° 11 Skywatch	18.06.2025	JDC elec.	Geos n° 11	22

⁽¹⁾ Riser: lowest part of the the parachute system, which is connected to the harness. Bridle: connection between risers and harness, can also be a strap.

⁽²⁾ The connecting strap has to have a minimum load capacity of 24000 [N]. The exposed part of the connecting belt has to be protected against environmental factors.

⁽³⁾ Calculated value includes the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. The value of the measured lies within the assigned range of values with a probability of 95%.

⁽⁴⁾ This standards is NOT covered by accreditation D-IS-19457-01