AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



PH PARAGLIDER HARNESSES | IP IMPACT PAD

INSPECTION CERTIFICATE

Inspection certificate number: PH_IP_195.2017

MANUFACTURER DATA

Manufacturer name: Apco Aviation Ltd

Contact person: Jonathan Cohn

Street: 7, Chalamish St. Industrial park

Post code / place: 3088900 Caesarea

Country: Israel

SAMPLE DATA

Name: Swift

Size: M

Impact pad type: Foam

Pilot max load [kg]: 120

Harness type: ABS

Serial number: 11701

Weight [kg]: 6.4

Sample reception date: 29.03.2017

Test date: 29.03.2017

ISSUE DATA

Place of declaration: Villeneuve

Date of issue: 06.06.2017

Director Management: Alain Zoller

Signature:

This signature aprouve the validity of the test reports PH BP

Air Turquoise SA, having thoroughly assessed the sample mentioned hereunder, declare it was found conform with all requirements defined by the following norms:

Airworthiness requirements for hang gliders and paragliders LTF 2009 as published in NfL 91/09 chapter 5 Paraglider harness protectors

Present declaration's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above.

This inspection report contain the following test and is complet with the test report PH BP

TESTS RESULTS SUMMARY

Shock impact tests is executed on these harnesses in order to prove the damping characteristics of it.

		Standard CEST Set DE CEST CEST CEST CEST CEST CEST CEST CES	ST setup	Test configuration	Impact at 165 cm (Seat plate)			
Test ID	TESTED ?				r Peak	ct duration [g] (if any) rded: [ms]	ct duration [g] (if any) rded: [ms]	Results
				Max impact	Impact at 38 [g record	Impact at 20 [g record		
Р	1	5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature +20+25°C without rescue	43.69	6.28	15.65	POSITIVE
PR	1	5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature +20+25°C with rescue	38.58	1.95	16.35	POSITIVE

Calculed 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 measurand lies within the assigned range of values with a probability of 95%.

This declaration must not be reproduced in part without the written permission of AIR TURQUOISE SA.

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

IMPACT PAD SHOCK TEST

TEST REPORT PH iP

BP PARAGLIDER HARNESSES / BACK PROTECTORS

PH_IP_195.2017 Inspection certificate ref. number:

MANUFACTURER DATA

Apco Aviation Ltd Manufacturer name: Jonathan Cohn Contact person:

> 7, Chalamish St. Industrial park Street:

3088900 Caesarea Post code / place:

Country:

SAMPLE DATA

Swift Name: M Size:

120 Max load [kg]: Serial number: 11701 29.03.2017 Date of reception:

ISSUE DATA

Villeneuve Place of inspection: 29.03.2017 Date of inspection: Inspector: Alain Zoller

> LTF NFL II-91/09 chapter 5 Paraglider harness protectors Directive:

The following limits may not be exceeded during back protector test: Maximum peak 50g, Maximum 38g for a period of 7 milliseconds, Maximum 20g for a period of 25 milliseconds: All three criteria must be fulfilled.

TEST ATMOSPHERE AGL

22.1 [C°] RH [%] 37 [hPa] 1029

		1029	[hPa]	
	165 [cm] drop:	TEST RESULTS		
Max value	P2 (second test)	P1 (first test)	BP test without rescue system	
43.6	43.1	43.7	Absolute maximum impact [g]	
6.2	6.28	5.44	Impact duration at +38 [g] (if any): [ms]	
15.6	15.36	15.65	Impact duration at +20 [g] (if any): [ms]	
	7.00	7.00	Uncertainty k=2 [%]	
	3.02	3.06	Uncertainty k=2 [g]	
	99	100	Repeat testing / max peak comparison [%]	
	POSITIVE	POSITIVE	Test Result:	
Max value	PR2 (second test)	PR1 (first test)	BP with rescue system (if applicable)	
38.5	38.6	35.3	Absolute maximum impact [g]	
1.9	1.95	0.00	Impact duration at +38 [g] (if any): [ms]	
16.3	16.35	15.95	Impact duration at +20 [g] (if any): [ms]	
	7.00	7.00	Uncertainty k=2 [%]	
	2.70	2.47	Uncertainty k=2 [g]	
	109.4	100	Repeat testing / max peak comparison [%]	
	POSITIVE	POSITIVE	Test Result:	

Calculed 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 measurand lies within the assigned range of values with a probability of 95%.

Instruments	Validity	Manufacturer	Type nr.	S/N
Accelero meter sensor 100 G	10.07.2016	Burster / MTS	89010-100	1263567
Geos n° 11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022

IMPACT PAD SHOCK TEST

TEST REPORT PH iP

BP PARAGLIDERS HARNESS BACK PROTECTORS

