

INSPECTION REPORT

PH PARAGLIDERS HARNESS

Inspection report number: PH_140.2015

TEST SAMPLE DATA

Manufacturer name: Flugsau GmbH

Contact person: Andre Bernhard

Street: Aelplerhaus 3

Post code / place: 6288 Grafenort

Country: Switzerland

Harness manufacturer name: Pigi

Harness manufacturer size: n/a

Serial number of the test sample: 010515/01

Harness type: ABS

Maximum certified pilot weight [kg]: 120

Harness protector type: Foam

Harness weight [kg]: 1.67

Volume reserve parachute container [cm3] Min: n/a Max: n/a

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Test responsible: Alain Zoller

Inspection place: Villeneuve

Sample reception date: 05.05.2015

Place of declaration: Villeneuve

Date of issue: 10.07.2015

Director management: Alain Zoller

Signature:

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

European Standard EN1651 September 1999

European Standard EN12491 September 2001

Airworthiness requirements for hang gliders and paragliders LTF 2009 as published in NfL 91/09 chapter 4 and 6

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 ID 0 to 12, ST and RD



Declaration conformity number: PH_140.2015

A. STRUCTURAL STRENGHT TESTS

A test plan was set up in order to execute the different tests in an efficient order. The table below summarizes this test plan together with .the applicable standards and results

		Standa	ard Ref.	a	Anch	oring	Foi	ces		
Test ID	TESTED?	EN 1651	LTF	TEST setup	Attach -ment points	Dummy	Req. Load in [g] force	Min. force [N]	Min. Test duratio n [sec]	1 02
R0	1	5.3.2.1					6	6000	10	POSITIV
R1	✓		4.2.1.a	Default flying position	2 main attachment Hip fixated points	9	9000	10	POSITIV	
R2	✓	5.3.2.2					15	15000	5	POSITIV
R3	✓		4.2.1.b	Default, landing	2 main att. points	Hip fixated,	6	6000	10	POSITIV
R4	1	5.3.2.7		position		landing conf.	15	15000	5	POSITIV
R5			4.2.1.a rescue	Rescue	2 rescue att. Pnts.	Hip fixated	9	9000	10	n/a
R6		5.3.2.4		Nescue		Tilp lixated	15	15000	5	n/a
R7			4.2.1.b rescue	Rescue,		Hip fixated, landing conf.	- 6	6000	10	n/a
R8	✓	5.3.2.3		One riser	ONE main att.	1 central hip fixation	6	6000	10	POSITIV
R9		5.3.2.5	4.2.1.d	Towing	2 main att. + 2 tow att.	None	3 5	3000 5000	10	n/a
R10	✓	5.3.2.6		Default, Negatif	One main att.	Head fix.	4.5	4500	10	POSITIV
R11	1		4.2.1.c	Upside down	2 main att. downw.	Head fix.	6	6000	10	POSITIV
R12			4.2.1.c rescue	Upside down rescue	2 rescue att. downw.	пеацііх.	6	6000	10	n/a

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Inspection report number: PH_140.2015

B. PARAGLIDER HARNESS BACK PROTECTORS

Shock impact tests have to be executed on these harnesses in order to prove the damping characteristics of it. Most paraglider harnesses are equipped with a protection device that damps the shock on the pilot's spine during a hard landing

					Impact at	165 cm (Se	eat plate)	
Test ID	TESTED?	Standard	TEST setup	Test configuration	pact [g]	on at 38 corded:	on at 20 corded:	Results
Te	TES	LTF	TES		Max Peak impact force	Impact duration at 38 [g] (if any) recorded: [ms]	Impact duration at 20 [g] (if any) recorded: [ms]	R
PRO			Defecult fluing	Test comple is attached to the dummy like a pilot in		0.00	0.00	n/a
TECT	✓	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	32.48			
1								
PRO			Default flying	Test sample is attached to the dummy like a pilot in				
TECT	✓	5.1.1	position	flight. Sample temperature +20+25°C with rescue	35.22	0.00	0.00	n/a
2								
PRO			Default flying	Test sample is attached to the dummy like a pilot in				
TECT	✓	5.1.1	position	flight. Sample temperature -10+5°C without rescue	27.22	0.00	0.00	n/a
3				<u> </u>				
PRO			Default fluir -	Test comple is attached to the dummy like a start in				
TECT	✓	5.1.1	Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature -10+5°C with rescue	31.92	0.00	0.00	n/a
4								

C. RESCUE DEPLOYMENT RESISTANCE TEST

The deployment of the rescue system has to be ensured in all circumstances of flight. This test is to verify whether the force needed to deploy is in between reasonable limits

_	٠.	Standard Ref.	dn	Anchoring Force for single ha		Force for single han	d deployment	
Test ID	TESTED		3T setup	Attach-		Min.	Danietenas	Result
-		LTF	TEST	ment points		Max.	Resistance measured [N]	Ľ.
						[N]		
RRDT	1	6.1.5	Default	•	a attached to the a pilot in flight.	20	38.0	POSITIVE
KKDI	•	0.1.5	5.1.5 flying position	(no dummy required)		70	33.0	POSITIVE

D. RESCUE DEPLOYMENT STRAP STRENGHT TEST

The connection between handgrip and inner container has to have sufficient load capacity/structural strength in any situation that may arise .during normal use. During this test is verified, whether this connection fulfill the requirements

	Test ID	ESTED?	Standard Ref.		TEST setup	Minimum force [N]	Min. Test duration	Breaking resistance measured [N]	Result	
		Ħ	LTF	EN 12491			[s]	mododi od [iv]		
I	RRST	✓	6.1.8	5.3.2	Connection strap in tensile testing machine	700	10	4890.0	POSITIV	

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TEST REPORT PH ID 0

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: **120**Serial number of the test sample: **010515/01**

Directives: EN 1651

Test standard §: 5.3.2.1 (EN)

Test setup: Default flying position

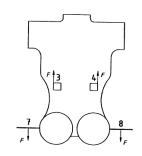
Anchoring: Attachment points: Both main riser attachments (3, 4)

Dummy: Default, hip fixed (7, 8)

Required load in force [g]: 6

Minimum load [N]: 6000 Required test load in [N]: 734

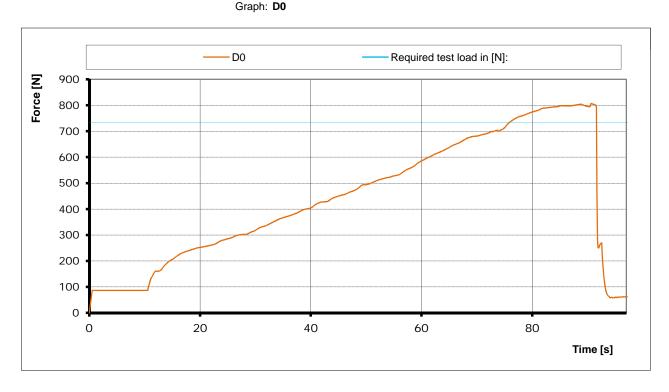
Min. duration [s]: 10



Results

Duration of maintained min. load [s]: **11.52**Any signs of structural failure after this test: **no failure**

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017			
Geos n°11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022



TEST REPORT PH ID 1

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: **120**Serial number of the test sample: **010515/01 Directives:** NfL II 91 / 09

Test standard §: 4.2.1 a (LTF DV)

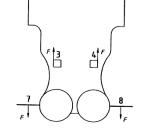
Test setup: Default flying position

Anchoring: Attachment points: Both main riser attachments (3, 4)

Dummy: Default, hip fixed (7, 8)

Required load in force [g]: 9

Minimum load [N]: 9000
Required test load in [N]: 1101
Min. duration [s]: 10

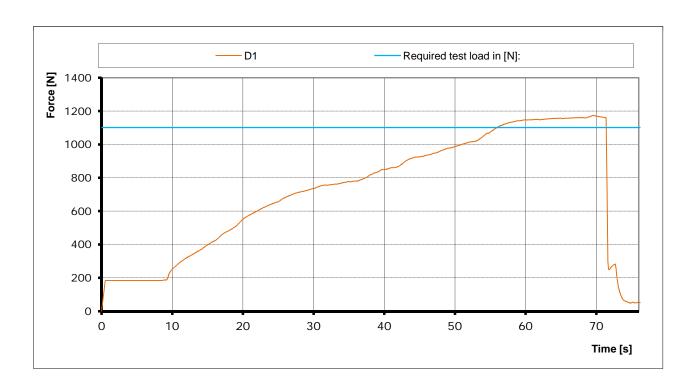


Results

Duration of maintained min. load [s]: 12.31

Any signs of structural failure after this test: no failure

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatc	07.04.2017	JDC electronics	Geos nº 11	0022



TEST REPORT PH ID 2

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve

Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120
Serial number of the test sample: 010515/01

Directives: EN 1651

Test standard §: 5.3.2.2

Test setup: Default flying position

Anchoring: Attachment points: Both main riser attachments (3, 4)

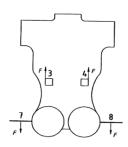
Dummy: Default, hip fixed (7, 8)

Required load in force [g]: 15

Min load [N]: 15 000

Required test load in [N]: 1835

Min. duration [s]: 5

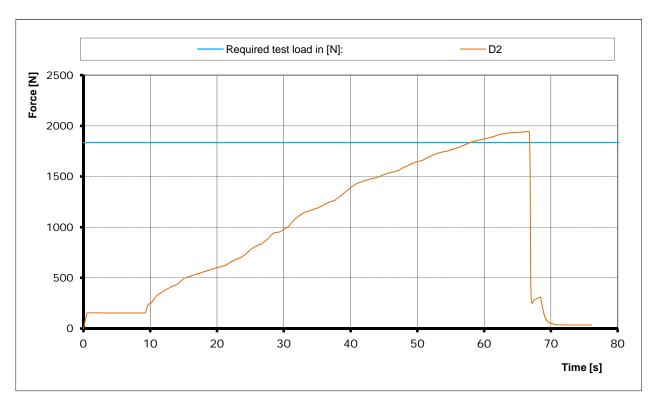


Results

Duration of maintained min. load [s]: 6.48

Any signs of structural failure after this test: no failure

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywato	07.04.2017	JDC electronics	Geos n° 11	0022



TEST REPORT PH ID 3

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: **120**Serial number of the test sample: **010515/01 Directives:** NfL II 91 / 09

Test standard §: 4.2.1.b

Test setup: Flying position before landing: seat board

(11) in landing position, leg straps (10)

closed.

Attachment points: Both of the main riser attachments

attached (3 and 4);

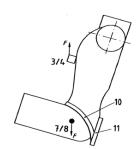
Dummy: Default, hip fixed (7, 8)

Required load in force [g]: 6

Min load [N]: 6000

Required test load in [N]: 734

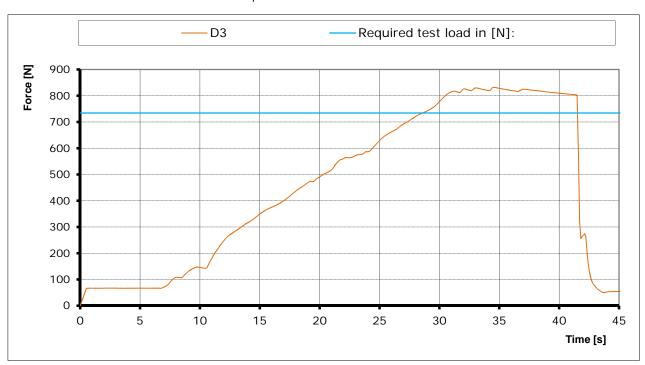
Min. duration [s]: 10



Results

Duration of maintained min. load [s]: 11.57
Any signs of structural failure after this test: no failure

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywato	07.04.2017	JDC electronics	Geos n° 11	0022



Anchoring:

TEST REPORT PH ID 4

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120 Serial number of the test sample: 010515/01

Directives: EN 1651

Test standard §: EN 5.3.2.7

Flying position before landing: seat

Test setup: board (11) in landing position, leg

straps (10) closed.

Both of the main riser attachments

Attachment points: attached (3 and 4);

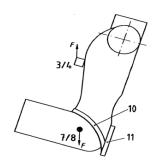
Dummy: Default, hip fixed (7, 8)

Required load in force [g]: 15

Min load [N]: 15000

Required test load in [N]: 1835

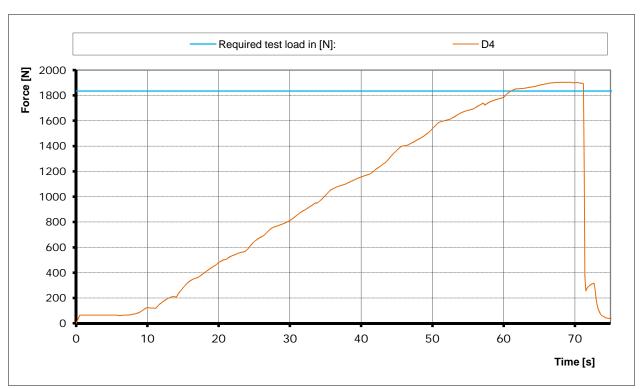
Min. duration [s]: 5



Results

Duration of maintained min. load [s]: 6.53 Any signs of structural failure after this test: no failure

Test result: POSITIV



Load sensor	2017	0	0	0
Geos n°11 Skywatch	42832	JDC electronics	Geos n° 11	0022
0	00.01.1900	0	0	0



TEST REPORT PH ID 8

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120
Serial number of the test sample: 010515/01
Directives: EN 1651

Test standard §: 5.3.2.3

Test setup: Only one riser attached

Anchoring: Attachment points: One main riser attachments (3)

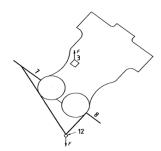
Dummy: Hip fixed (7, 8 -> 12)

Required load in force [g]: 6

Min load [N]: 6000

Required test load in [N]: 734

Min. duration [s]: 10

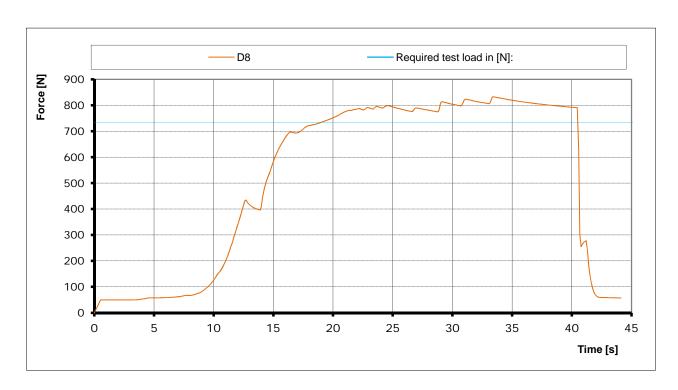


Results

Duration of maintained min. load [s]: 19.51

Any signs of structural failure after this test: no failure

Test result: POSITIV



Load sensor	2017	0	0	0
Geos n°11 Skywatc	42832	JDC electronics	Geos n° 11	0022
0	00.01.1900	0	0	0



Anchoring:

TEST REPORT PH ID 10

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120
Serial number of the test sample: 010515/01
Directives: EN 1651

Test standard §: 5.3.2.6

501 01d...da. d 3. 0101<u>=</u>10

Test setup: Normal flying position in NEGATIF

Attachment points: ONE of the main riser attachments attached downwards(3 or 4);

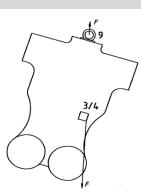
Dummy anchored at the head position

Dummy: (9)

Required load in force [g]: 4.5

Min load [N]: 4500

Required test load in [N]: **550**Min. duration [s]: **10**

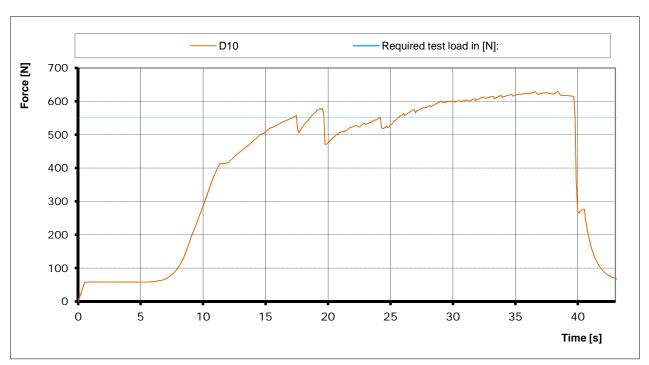


Results

Duration of maintained min. load [s]: 11.16

Any signs of structural failure after this test: no failure

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatc	07.04.2017	JDC electronics	Geos n° 11	0022



Anchoring:

TEST REPORT PH ID 11

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9 Maximum certified pilot weight [kg]: 120

Serial number of the test sample: **010515/01 Directives:** NfL II 91 / 09

Test standard §: 4.2.1.c

Test setup: Pilot upside down flying position

Attachment points: Both of the main riser attachments attached downwards (3 and 4);

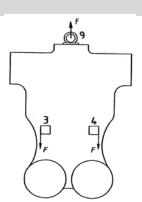
Dummy: Dummy anchored at the head position (9)

Required load in force [g]: 6

Min load [N]: 6000

Required test load in [N]: 734

Min. duration [s]: 10

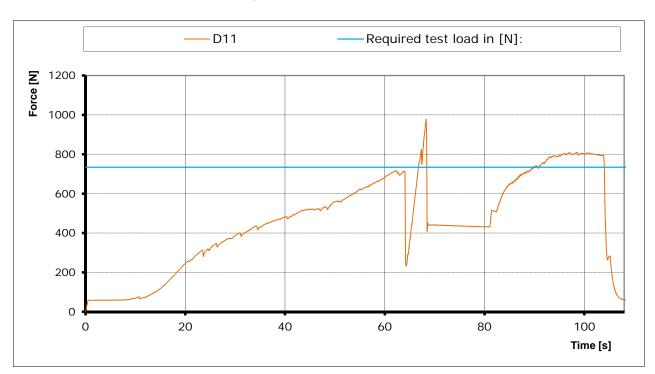


Results

Duration of maintained min. load [s]: 11.27

Any signs of structural failure after this test: no failure

Test result: POSITIV



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywato	07.04.2017	JDC electronics	Geos n° 11	0022



TEST REPORT PH ID ST

PH PARAGLIDERS HARNESS PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve
Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120
Serial number of the test sample: 010515/01
Directives: Nfl II 91 / 09

Test standard §: 6.1.5

The deployment of the rescue system has to be ensured in all circumstances, especially with a damaged glider.

The pilot has to be able to deploy the rescue chute with a single pull out of the outer container, single handed and in an anatomical favorable direction.

In order to simulate this, the test responsible deploys the rescue seated in the harness. In a similar way as in real flight. The deployment resistance is approximately measured by the load cell, which is placed between the hand of the test responsible and the rescue hand grip.

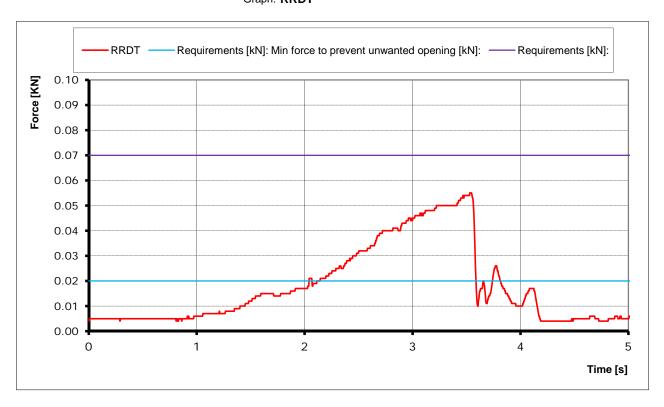
On the other hand inadvertent deployment has to be fairly remote. Therefore a shear link has to withstand a minimum load.

Requirements [kN]: 0.07

Min force to prevent unwanted opening [kN]: 0.02

Measured peak to peak required force for deployment [kN]:

Test result 20 [N]: POSITIVE
Test result 70 [N]: POSITIVE
Graph: RRDT





TEST REPORT PH ID RD

PH PARAGLIDERS HARNESS

PH_140.2015

Manufacturer name: Flugsau GmbH

Harness manufacturer name: Pigi

Test place & date: Villeneuve

Test responsible: Alain Zoller

Atmosphere [°C] RH [%] [hPa]: 22.2 / 49 / 1020.9

Maximum certified pilot weight [kg]: 120 Serial number of the test sample: 010515/01

> Directives: EN 12491 Nfl II 91 / 09 &

Test standard §: 5.3.2 (EN 12491) & 6.1.8 (LTF)

Test setup: The handgrip of the outer container has to be connected to the inner container

with a removable loop in a way that it is possible to use the inner container

with different types of outer containers.

The connection between handgrip and inner container has to have sufficient load capacity/structural strength in any situation that may arise during normal

operation.

In order to verify this, the connection is tested on its tensile strength by a

default tensile testing setup.

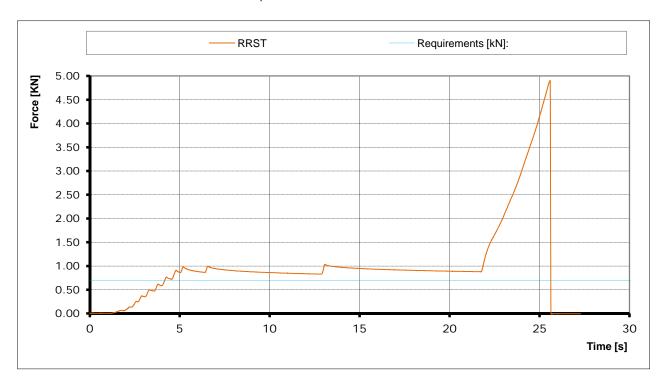
In addition to this the breaking resistance will also be measured.

Requirements[kN]: 0.7 Requirements[s]: 10

Results

Duration of maintained load [s]: 2145.70 Breaking resistance [KN]: 4.89 Test result: POSITIV

Graph: RRST



INSPECTION REPORT

BP PARAGLIDERS HARNESS BACK PROTECTORS

Inspectio report number: PH 140.2015

TEST SAMPLE DATA

Manufacturer name: Flugsau GmbH

Contact person: Andre Bernhard

Street: Aelplerhaus 3

paragliding by air lurquoise

Post code / place: 6288 Grafenort

Country: Switzerland

Harness manufacturer name: Pigi serie

Harness manufacturer size: L

Serial number of the test sample: 010515/01

Harness weight [kg]: 1.67

Maximum certified pilot weight [kg]: 120

Harness protector type: Airbag

Harness type: ABS

Volume rescue system container [cm3] Max: n/a

Volume rescue system container [cm3] Min: n/a

Sample reception date: 05.05.2015

Place of declaration: Villeneuve

Date of issue: 10.07.2015

Director Management: Alain Zoller

Signature:

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

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

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

Test ID	TESTED ?	Standard	TEST setup	Test configuration	Impact at 165 cm (Seat plate)			
					Max Peak impact [g] force	Impact duration at 38 [g] (if any) recorded: [ms]	Impact duration at 20 [g] (if any) recorded: [ms]	Results
		LTF						
PRO			Defects flation	Test sample is attached to the dummy like a pilot in	70000000000	(Income)		
TECT	~	5.1.1	Default flying position	flight. Sample temperature +20+25°C without rescue	34.63	0.00	0.00	POSITIVE
1								
PRO			Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature +20+25°C with rescue	0.00	0.00	0.00	n/a
TECT		5.1.1						
2								
PRO			Default flying position	Test sample is attached to the dummy like a pilot in flight. Sample temperature -10+5°C without rescue	29.02	0.00	0.00	POSITIVE
TECT	1	5.1.1						
3			Position	1				
PRO		5.1.1	Default flying position	에는 그리네는 전에 가면서 이번 전에 되는 것이 되는 것이 없었다. 이번 전에 가장 보고 있다면 이번 보고 있다면 이번 보고 있다. 이번 보고 있다면 이번 보고 있다면 보고 있다	0.00	0.00	0.00	n/a
TECT	ij.							
4			position					

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BACK PROTECTORS SHOCK TEST

BP PARAGLIDERS HARNESS BACK PROTECTORS

TEST REPORT PH BP

Inspection report number: PH 140.2015

TEST SAMPLE DATA

Manufacturer name: Flugsau GmbH

Adress: Aelplerhaus 3

6288 Grafenort Switzerland

Harness Manufacturers name: Pigi serie

 $\mbox{Harness Manufacturers Size:} \qquad \mbox{\bf L} \\ \mbox{Harness Manufacturers max load (kg):} \qquad \mbox{\bf 120} \\$

Harness Manufacturers serial number: 010515/01

Date of sample reception: **05.05.2015**

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

Place of inspection: Villeneuve
Date of inspection: 13.05.2015
Inspector: Alain Zoller

Signature:

The following limits may not be exceeded during back protector test: Maximum peak 50g, Maximum 38g for a period of 7 milliseconds,

TEST ATMOSPHERE AGL

[C°] 22.2 RH [%] 49 [hPa] 1020.9

RESULTS	Impact in at a height of min 165 [[cm] drop:				
Without rescue system	20 25°	20 25°	*-10° -5°	*-10° -5°	
Test ID	P1	P2	PN1	PN2	
Absolute maximum impact [g]	34.6	37.5	29.0	34.0	
Impact duration of+ 38 [g] (if any): [ms]	0.00	0.00	0.00	0.00	
Impact duration of +20 [g] (if any): [ms]	0.00	0.00	0.00	0.00	
Uncertainty 95 % [%]	6.61	6.61	6.61	6.61	
Uncertainty 95 % [g]	2.29	2.48	1.92	2.25	
MAX ACCELERATION compare [%]	100	108	100	117	
Test Result:	POSITIVE	POSITIVE	POSITIVE	POSITIVE	
Test Result: With rescue system	POSITIVE 20 25°	POSITIVE 20 25°	POSITIVE *-10° -5°	*-10° -5°	
With rescue system	20 25°	20 25°	*-10° -5°	*-10° -5°	
With rescue system Test ID	20 25° P1R	20 25° P2R	*-10° -5° PN1R	*-10° -5° PN2R	
With rescue system Test ID Absolute maximum impact [g]	20 25° P1R 0.0	20 25° P2R 0.0	*-10° -5° PN1R 0.0	*-10° -5° PN2R 0.0	
With rescue system Test ID Absolute maximum impact [g] Impact duration of+ 38 [g] (if any): [ms]	20 25° P1R 0.0 0.00	20 25° P2R 0.0 0.00	*-10° -5° PN1R 0.0 0.00	*-10° -5° PN2R 0.0 0.00	
With rescue system Test ID Absolute maximum impact [g] Impact duration of+ 38 [g] (if any): [ms] Impact duration of +20 [g] (if any): [ms]	20 25° P1R 0.0 0.00 0.00	20 25° P2R 0.0 0.00 0.00	*-10° -5° PN1R 0.0 0.00 0.00	*-10° -5° PN2R 0.0 0.00 0.00	
With rescue system Test ID Absolute maximum impact [g] Impact duration of+ 38 [g] (if any): [ms] Impact duration of +20 [g] (if any): [ms] Uncertainty 95 % [%]	20 25° P1R 0.0 0.00 0.00 6.61	20 25° P2R 0.0 0.00 0.00 6.61	*-10° -5° PN1R 0.0 0.00 0.00 6.61	*-10° -5° PN2R 0.0 0.00 0.00 6.61	

Maximum 20g for a period of 25 milliseconds: All three criteria must be fulfilled.

Instruments	Validity	Manufacturer	Type nr.	S/N
Accelero meter sensor 100 G	2017	Burster / MTS	89010-100	1263567
Geos n° 11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022

^{*} Sample is refrigered at negative value according to the LTF91/09 chapter 5 requieremnts, the test is executed at the test room temperature.

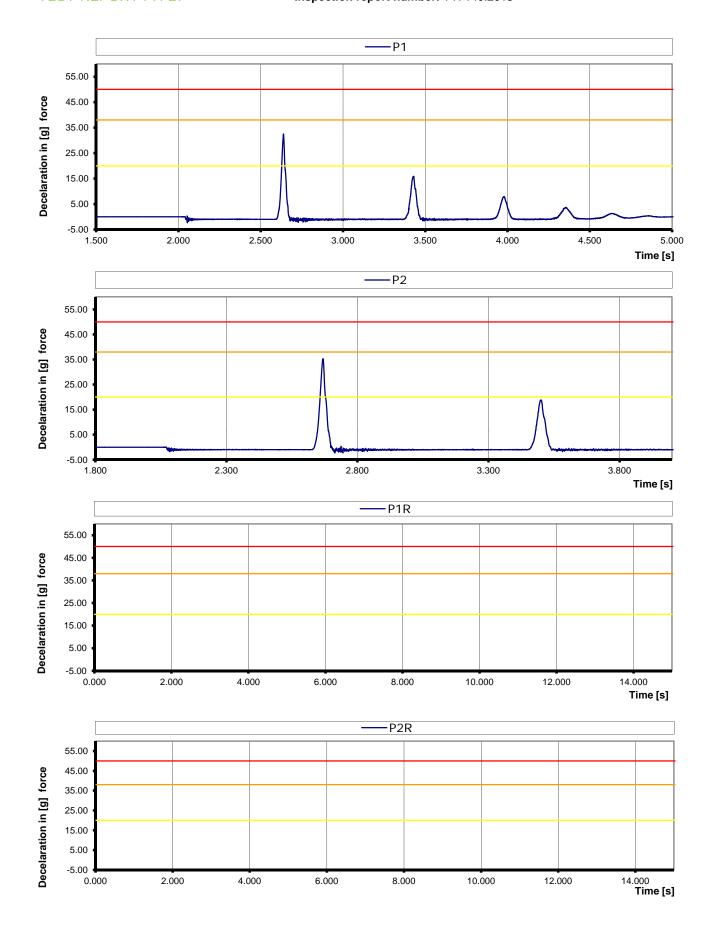


BACK PROTECTORS SHOCK TEST

BP PARAGLIDERS HARNESS BACK PROTECTORS

TEST REPORT PH BP

Inspection report number: PH 140.2015





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