

#### **Test Report**

This test report describes the test results of the below mentioned paragliding harness.

All the tests were carried out by:

Air Turquoise SA, official test laboratory of Switzerland.



**Standards** 

Tests were carried out in conformity with the following standards:

- 2. DV LuftGerPV §1, Nr. 7 C (\*note: in what follows this will be abbreviated by "LTF")
- European Standard EN1651 September 1999 (\*note in what follows this will be abbreviated by "EN")
- European Standard EN12491 September 2001 (\*note in what follows this will be abbreviated by "EN12491")

#### Harness details

Manufacturer:	Skywalk
Harness model:	Flex
Size:	Medium
Harness Weight:	1.9 kg
Maximum certified pilot	100 kg
Impact protection type:	Air Bag protection
Harness type:	ABS
Test responsible:	Alain Zoller
Test place:	Villeneuve
Test date:	January 4, 2013
Test room temp & humidity:	21.5° C; 31%rel
	DU 020 2012
Certification number EN:	PH 039.2013
Certification number EN: Certification number LTF:	GZ 039.2013



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Test summary

#### 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.	٩	Anch	oring	For	ces	Min.	
Test ID	TESTED ?	EN	LTF	TEST setup	Attach - ment points	Dummy	Req. Load in g	Min. force [N]	Test durat ion [sec]	Result
1	!	5.3.2.1	4.2.1.a	Default flying position	2 main attachment points	Hip fixated	6g 9g	6000 9000	10	ОК
2 3 4	✓	5.3.2.2 5.3.2.7	4.2.1.b	Default, landing position	2 main att. points	Hip fixated, landing conf.	15g 6g 15g	15000 6000 15000	5 10 5	ОК ОК ОК
5 6 7		5.3.2.4	4.2.1.a rescue 4.2.1.b	Rescue Rescue,	2 rescue att. Pnts.	Hip fixated Hip fixated,	9g 15g 6q	9000 15000 6000	10 5 10	n/a n/a n/a
8	~	5.3.2.3	rescue	landing One riser	ONE main att.	landing conf. 1 central hip fixation	6g	6000	10	ок
9		5.3.2.5	4.2.1.d	Towing	2 main att. + 2 tow att.	None	3g 5g	3000 5000	10	n/a
10	✓	5.3.2.6		Default, <b>Neqatif</b>	One main att.	Head fix.	4.5g	4500	10	ок
11	~		4.2.1.c	Upside down	2 main att. downw.	Hood fiv	6g	6000	10	ок
12			4.2.1.c rescue	Upside down rescue	2 rescue att. downw.	Head fix.	6g	6000	10	n/a

#### **B. HARNESS PROTECTION SHOCK TEST**

Most paraglider harnesses are equipped with a protection device that damps the shock on the pilot's spine during a hard landing.

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

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		Standa		Anchoring		Impact টিটি				
		rd Ref.:				0 7 C	act	u v	Lo l	
Test ID	TESTED ?	LTF	TEST setup	Attach- ment points	Dummy	Max. tolerated peak impact i	Max Peak impact measured	I mpact duratio +38 g (if any) recorded:	Impact durati +20 g (if any) recorded:	Result
PRO TECT 1	~	5.1.1	Default flying position	the harness	is attached to s like a pilot in ight.		19.59	0	0	ок

#### 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.

		Standa rd Ref.		Anchoring		Anchoring Force for single hand deployment				
Test ID	τεςτευ ?	LTF	TEST set	Attach- ment points	Dummy	Min. force [N]	force [N]	Resistance measured [daN]	Result	
Resc depl		6.1.5	Default flying position	Test responisble is attached to the harness like a pilot in flight. (no dummy required)		20 N	70 N	n/t	n/a	

#### 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	TESTED ?	Standa LTF	ard Ref. EN 12491	TEST setup	Minimum force [N]	Min. Test durati on [s]	Breaking resistance measured	Result
Resc strap	>	6.1.8	5.3.2	Connection strap in tensile testing machine	700N	10	n/t	ок

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After careful examination as explained in above mentioned test reports (from page 2 to page 18), the undersigned persons declare that the harness:

Skywalk Flex Medium

Complied with:

• European Standard EN 1651 September 1999

And / or (if tested)

• European Standard EN 12491 March 2001

And / or (if tested)

• 2. DV LuftGerPV §1, Nr. 7 c

Villeneuve, January 4, 2013

Alain Zoller

Test responsible

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Air Turquoise S.A. - Certification of paraglider equipment Tested in accordance with EN 1651:1999 and 2.DV LuftGerPV§1, Nr.7c

Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Place, Date

paragliding by air turquoise

#### Annex: detailed test reports

Harness Test Test ID 1 Item: Flex Manufacturer Skywalk Test place & date: Villeneuve January 4, 2013 Test responsible: Alain Zoller Temp. [°C] & Humidity: 21.5° C; 31%rel Maximum certified pilot weight [kg]: 100 kg EN 1651 & 2. DV LuftGerPV §1, Nr. 7 c Standard Test standard §: 5.3.2.1 (EN) & 4.2.1 a (LTF DV) Default flying position Test setup: Both main riser attachments (3, 4) Anchoring: Attachment points: Dummy: Default, hip fixed (7, 8) B 4 (EN: 6q) Required load in g : 9q Minimum load [N]: 9000 N (EN: 6000 N) 900 Required test load in kg: kg 10 s Min. duration [s]: Results Duration of maintained min. load [s]: 11.1 s Any signs of structural failure after this test: No visible failure Passed Test result: Graph: TEST ID 1: EN 5.3.2.1 & LTF 4.2.1.a — — – Norm 600 daN norm 900 daN 1400 1200 1000 Force (daN) 800 600 400 200 -5 5 15 25 35 45 55 Time (s)

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Air Turquoise S.A. - Certification of paraglider equipment Tested in accordance with EN 1651:1999 and 2.DV LuftGerPV§1, Nr.7c Annex TEST ID 1 Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Item: Flex Manufacturer Skywalk Test place & date: Villeneuve January 4, 2013 Test sponsible: Alain Zoller Temp. [*C] & Humidity: 21.5° C, 31%rel Maximum certified pilot weight [kg]: 100 kg Standard EN 1651 Test standard §: 5.3.2.7 Test setup: Default flying position Anchoring: Attachment points: Both main riser attachments (3, 4) Dummy: Default, hip fixed (7, 6) Required toad in g: 15 g Min toad [N]: 1500 kg Min toad [N]: 55 Results Puration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2Norm 1500 daN 100	Harness Test			Test ID 2
Manufacturer Skywalk Test pace & date: Villeneuve January 4, 2013 Test responsible: Alain Zoller Temp. [r <sup>0</sup> ] & Humidity: S. 21.5° (3.1% el Maximum certified pilot weight [kg]: 100 kg Standard <u>EN 1651</u> Test standard §: S. 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 g: 15 g Min load [N]: 15000 kg Min load [N]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN	I tem:	Flex		
Test place & date: Test responsible: Alain Zoller Temp. [*C] & Humidity: Test standard §: Standard [N]: Dummy: Default hip fixed (7, 8): Required test load in kg: Standard [s]: Standard [s]:	Manufacturer			
Test responsible: Alain Zoller Temp. [*C] & Humidity: 21.5° C, 31%rel Maximum certified pilot weight [kg]: 100 kg Standard EN1651 Test standard §: 5.3.2.2 Test steup: Default flying position Anchoring: Attachment points: Both main riser attachments (3, 4) Dummy: Default, hip fixed (7, 8) Required load in g: 15 9 Min Idad [N]: 15000 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN 100 - TEST ID 2 - Default (1) - De	Test place & date:	-	January 4, 20	013
Temp. [°C] & Humidity: 21.5°C; 31%rel Maximum certified pilot weight [kg]: 100 kg Standard 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 g: 15 g Min load [N]: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - 10 - 10 - 10 - 21 - 26 - 31	-		-	
Maximum certified pilot weight [kg]: 100 kg Standard 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 g: 15 00 N Required test load in kg: 1500 kg Min. load [J]: 6.9 S Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN	-			
Standard       EN 1651         Test standard §:       5.3.2.2         Test setup:       Default flying position         Anchoring:       Attachment points:         Dummy:       Default, hip fixed (7, 8)         Required load in g:       15         gillin load [N]:       15 00 kg         Min load [N]:       1500 kg         Min.dor f(s):       5         Results       0.9 s         Duration of maintained min. load [5]:       6.9 s         Any signs of structural failure after this test:       No visible failure         Test result:       Passed         Graph:       0.000 dan				
Test standard §: 5.3.2.7 Test setup: Default flying position Anchoring: Attachment points: Both main riser attachments (3, 4) Dummy: Default, hip fixed (7, 8) Required load in g: 15 9 Min load [N]: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100   TEST ID 2: EN 5.3.2.2   Norm 1500 daN		-	κġ	_
Test setup: Default flying position Anchoring: Attachment points: Both main riser attachments (3, 4) Dummy: Default, hip fixed (7, 8) Required load in g: 15 g Min load [N]: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 55 Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN				
Anchoring: Attachment points: Both main riser attachments (3, 4) Dummy: Default, hip fixed (7, 8) Required load in g: 15 g Min load [N]: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 5s Results Puration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 1000 - TEST ID 2: EN 5.3.2.2 - Norm 1500 daN	_			
Dummy: Default, hip fixed (7, 6)   Required load in g: 15   Min load [N]: 1500 kg   Min load [N]: 1500 kg   Min duration [s]: 5s	-			
Required load in g: Min load [N]: Required test load in kg: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: Case of structural failure after this test: Test result: Test result: Case of the structural failure after this test: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 — Norm 1500 daN 100 - 0 - TEST ID 2: EN 5.3.2.2 — Norm 1500 daN 100 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Anchoring: Attachment points:	Both main	riser attachments (3, 4	<sup>+)</sup>
Required load in g: Min load [N]: Required test load in kg: 15 000 N Required test load in kg: 1500 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: Case of structural failure after this test: Test result: Test result: Case of the structural failure after this test: Passed Graph: 100 - TEST ID 2: EN 5.3.2.2 — Norm 1500 daN 100 - 0 - TEST ID 2: EN 5.3.2.2 — Norm 1500 daN 100 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Dummy:	Default, hip	o fixed (7, 8)	
Required test load in kg: 1500 kg Min. duration [s]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 100   100	Required load in g:	15	g	) (
Min. duration [s]: 5s Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: $100^{-10^{-1$	Min load [N]:	15 000 N		7
Results Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Required test load in kg:	1500	kg	FI A IF
Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Min. duration [s]:	5s		
Duration of maintained min. load [s]: 6.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Doculto			
Any signs of structural failure after this test: Passed Test result: Passed Graph:		d [a].	( 0 -	
Test result: Pased Graph: $\int \frac{1}{100} \int $	Duration of maintained min. loa	מ [s]:	6.9 5	
	Any signs of structural failure a	fter this test:	No visible failur	re
-TEST ID 2: EN 5.3.2.2 -Norm 1500 daN	Test result:		Passed	
$180 \\ 160 \\ 140 \\ 140 \\ 120 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	Graph:			
1600 + 100	TES	ST ID 2: EN 5.3.2.2	2 — No	rm 1500 daN
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1400 + 100	1600 •			
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400 $400$ $200$ $6$ $11$ $16$ $21$ $26$ $31$				
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6 11 16 21 26 31				
		16	21	26 $21$
	0 11			20 31

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Harness Test			Test ID 3
Item:	Flex		
Manufacturer	Skywalk		
Test place & date:	Villeneuve	January 4, 2013	
Test responsible:	Alain Zoller	January 4, 2013	
Temp. [°C] & Humidity:			
Maximum certified pilot weight [kg]:	21.5° C; 31%rel 100	ka	
maximam certifica phot weight [kg].	100	kg	
Standard	2. DV LuftGerPV	§1, Nr. 7 c	
Test standard §:	4.2.1.b		
Test setup:	Flying position be board (11) in land straps (10) closed		
Anchoring: Attachment points:	attached (3 and 4		3/4
Dummy:	Default, hip fixed	(7, 8)	10
Required load in g:	6	g	7/8 1 11
Min load [N]:	6000 N		
Required test load in kg:	600	kg	
Min. duration [s]:	10 s		
Results			
Duration of maintained min. load [s]:		11.5 s	
		11.5 5	
Any signs of structural failure after thi	is test:	No visible failure	
Test result:		Passed	
Graph:			
TEST ID 3: L	TF 4.2.1.b	Norm 60	0 daN
800			
700 •			
600			
<b>2</b> 500 <b>−</b>			
8 400			
\$500           \$400           \$300			
200			
100			

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Harness Test	Test ID 4
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Flex Skywalk Villeneuve January 4, 2013 Alain Zoller 21.5° C; 31%rel 100 kg
Standard Test standard §: Test setup:	EN 1651 EN 5.3.2.7 Flying position before landing: seat board (11) in landing position, leg
Anchoring: Attachment points: Dummy:	straps (10) closed. Both of the main riser attachments attached (3 and 4); Default, hip fixed (7, 8)
Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	15 g 15 000 N <b>1500 kg</b> 5 s
Results Duration of maintained min. load [s]: Any signs of structural failure after this	6.7 s       test:     No visible failure
Test result: Graph:	Passed
TEST ID 4: EN	

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Harness Test			Test ID 8
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Flex Skywalk Villeneuve Alain Zoller 21.5° C; 31%rel 100	January 4, 2013 kg	
Standard	EN 1651		
Test standard §:	5.3.2.3		I
Test setup:	Only one riser a	attached	$\frown$
Anchoring: Attachment points:	One main riser	attachments (3)	
Dummy:	Hip fixed (7, 8	-> 12)	
Required load in g:	6	g	K
Min load [N]:	6 000 N		
Required test load in kg:		kg	er in
Min. duration [s]:	10 s		
Results			
Duration of maintained min. load [s]:		10.5 s	
Any signs of structural failure after th	is test:	No visible failure	
Test result:		Passed	
Graph:			
	.3.2.3		00 daN
700			
600			╺┶╍┶┶┶┶
500			
900 <b>900 9000 900 900 900 900 900 900 900 900 900 900 </b>	/		
8 300			
o,			
200			
100			
21 26 31	36 <b>Time (</b>	41 46 (s)	51

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Harness Test				Test II	D 10
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Flex Skywalk Villeneuve Alain Zoller 21.5° C; 31%re 100		uary 4, 2013		
Standard	EN 1651				
Test standard §:	5.3.2.6				IF.
Test setup:	Normal flying	g position in N	IEGATIF	$\bigwedge$	~@°
Anchoring: Attachment points:		nain riser atta vnwards(3 or		5	
Dummy:	(9)	nored at the h	ead position	)	3/4
Required load in g:	4.5	g		$\mathcal{A}$	Y
Min load [N]: Required test load in kg:	4500 N <b>450</b>	kg		$\Box$	
Min. duration [s]:	450 10 s	ĸġ			F
Results					
Duration of maintained min. load [s]:		11.4 s			
Any signs of structural failure after th	is test:	No visible	e failure		
Test result:		Passed			
Graph:					
TEST ID 10:	EN 5.3.2.6		— Norm 45	0 daN	
600 <b>-</b>					
500 •					
400					
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e suo .					
<u>موموم</u> م					
				•	
0					
0 <b>1</b> 5 20 25	30 <b>Time</b>		40	45	50

ISO 9001 BUREAU VERITAS Certification

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Harness Test			Test ID 11
Item:	Flex		
Manufacturer	Skywalk		
Test place & date:	Villeneuve	January 4,	2013
Test responsible:	Alain Zoller	54.144.1 <b>5</b> 1,	2010
Temp. [°C] & Humidity:	21.5° C; 31%re	1	
Maximum certified pilot weight [kg]:	100	kg	
1 3 1 3 1	100		
Standard	2. DV LuftGer	PV §1, Nr. 7 c	
Test standard §:	4.2.1.c		F
Test setup:	Pilot upside d	own flying position	
Anchoring: Attachment points:		nain riser attachmen nwards (3 and 4);	ts
Dummy:	Dummy anch (9)	ored at the head po	
Required load in g:	6	g	
Min load [N]:	6 000 N		
Required test load in kg:	600	kg	
Min. duration [s]:	10 s		
Results			
Duration of maintained min. load [s]:		11.4 s	
Any signs of structural failure after thi	s test:	No visible failu	re
Test result:		Passed	
Graph:			
TEST ID 11: L	TF 4.2.1.c	N	lorm 600 daN
700			
600			
2 500 ·			
ଅ <sub>400</sub> -			
92			
G 500 • 400			
во во селото во			
200 •			
200 •	13 Time		3 28 33

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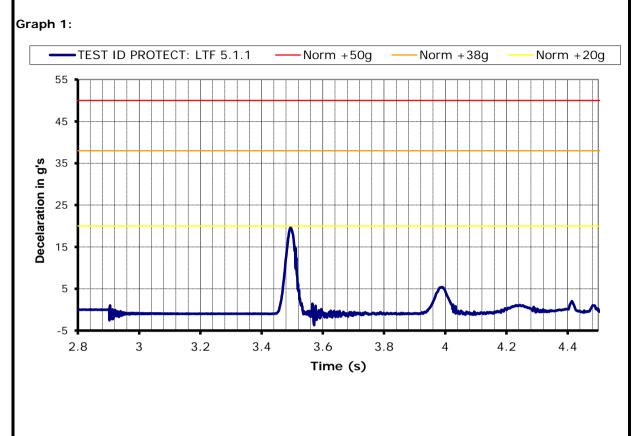


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Protector she	ock test		Test ID Protect		
I tem: Manufacturer Test place & date Test responsible: Temp. [°C] & Hui Maximum certifie	:	Flex Skywalk Villeneuve Alain Zoller 21.5° C; 31%rel 100	January 4, 2013 kg		
Standard		2. DV LuftGerP	V §1, Nr. 7 c		
Test standard §:		5.1.1			
Test setup:		real pilot in flig Impact will be height (with ar To simulate the pressurized air stopped at leas Impact will be	simulated by dropping the dummy from a certain ad without reserve). e "in-flight" conditions, the airbag is inflated with equalling an airspeed of 7m/s. Inflation has to be st 5 sec before impact. measured by an accelerometer mounted on the		
Requirements:	Minimun height:		ct measured in g's) en lowest point test dummy and impact surface)		
	Impact requirements:	+50g as absolute maximum; +38g during less than 7 msec; +20g during less than 25 msec.			
	Repetitions:	maximum 2 ho	e performed 2 times, minimum 1 hour and urs after the first impact (with airbag protectors ot necessary). The 2 Max-values should not differ		
Results					
Shock test 1:					
Impact at a heigl	ht of 1.65m:	19.59	<mark>,</mark>		
Impact duration	of+ 38 g (if any):	(	<b>)</b>		
Impact duration	of +20 g (if any):	(	$\Delta < 20\%?$		
<u>Shock test 2:</u>					
Impact at a heigl	ht of 1.65m:	19.78	3]		
Impact duration	of+ 38 g (if any):	(	)		
Impact duration	of +20 g (if any):	(			
Test Result:			Passed		



Air Turquoise SA Rte du Pré-au-Comte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30 info@para-test.com

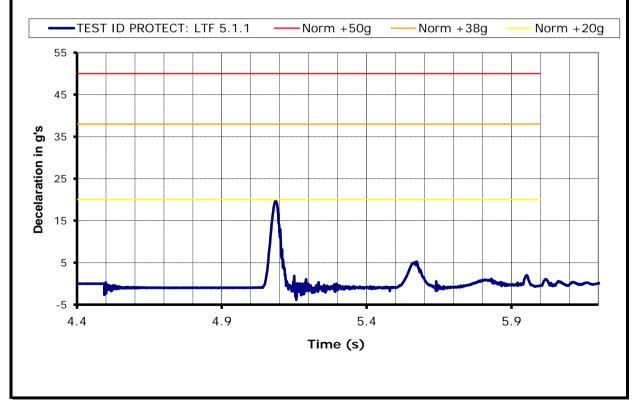


paragliding by air turguoise

#### Graph 2:

para-test.com

PD





Annex TEST ID Protect 1 Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Rescue deployment strap strength testTest ID resc strap	
I tem: Manufacturer	Flex
Test place & date:	Skywalk Villeneuve January 4, 2013
Test responsible:	
Temp. [°C] & Humidity:	Alain Zoller
Maximum certified pilot weight [kg]:	21.5° C; 31%rel 100 ka
	100 kg
Standard	EN 12491 & 2. DV LuftGerPV §1, Nr. 7 c
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: Min. tensile strenght for 10 s:	700 N (= 70daN)
Results	
Duration of maintained load [s]:	10 s
Breaking resistance [daN]:	<mark>248.3</mark>
Comment:	Passed
Graph:	
TEST ID rescue st	rap strenght Min 70 daN
300	
250 -	
Tensile Ten	
<b>1</b> 00	
<b>2</b> 50 <b>-</b>	
-50 -50 -50 -50 -50 -50 -50 -50 -50 -50	13.4 18.4 23.4
Time (s)	



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