

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:	Sky Paragliders a.s.
Harness model:	Skylighter2
Size:	Large
Harness Weight:	2.53 kg
Maximum certified pilot	100 kg
Impact protection type:	Mousse bag
Harness type:	ABS
Test responsible:	Alain Zoller
Test place:	Villeneuve
Test date:	November 29, 2013
Test room temp & humidity:	25.1° C; 60%rel
Certification number EN:	PH 109.2013
Certification number LTF:	GZ 109.2013

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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.

	1	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	<u> </u>	5.3.2.2					15g	15000	5	ок
3	✓ I		4.2.1.b	Default, landing	2 main att.	Hip fixated,	6g	6000	10	ОК
4	<u> </u>	5.3.2.7		position	points	landing conf.	15g	15000	5	ок
5	✓		4.2.1.a rescue	Rescue		Hip fixated	9g	9000	10	ок
6	\mathbf{V}_{i}	5.3.2.4			2 rescue att. Pnts.	· · · · · · · · · · ·	15g	15000	5	ок
7	<u> </u>		4.2.1.b rescue	Rescue , landing		Hip fixated, landing conf.	6g	6000	10	ок
8	 Image: A second s	5.3.2.3		One riser	ONE main att.	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	 Image: A set of the set of the	5.3.2.6		Default, Neqatif	One main att.	Head fix.	4.5g	4500	10	ок
11	✓ I		4.2.1.c	Upside down	2 main att. downw.		6g	6000	10	ок
12	✓ 		4.2.1.c rescue	Upside down rescue	2 rescue att. downw.	Head fix.	6g	6000	10	ок

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		Ancl	noring		Impac	t jo	of	
		rd Ref.:				ס	npact	ĥ	u n	
Test ID	TESTED ?	LTF	TEST setup	Attach- ment points	Dummy	Max. tolerated peak impact in	Max Peak imp measured	l mpact duratio +38 g (if any) recorded:	Impact duratio +20 g (if any) recorded:	Result
PRO TECT		5.1.1	Default flying		is attached to like a pilot in		0	0	0	n/a
1			position		ight.	0			I	

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		Force for single hand deployment			
Test ID	TESTED ?	LTF	TEST set	Attach- ment points	Dummy	Min. force [N]	force [N]	Resistance measured [daN]	Result
Resc depl	*	6.1.5	Default flying position	attached to like a pil	ponisble is o the harness ot in flight. ny required)	20 N	70 N	n/t	ок

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:

paragliding by air turquoise

Sky Paragliders a.s. Skylighter2 Large

Complied with:

para-test.com

• 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, November 29, 2013



Test responsible

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Place, Date

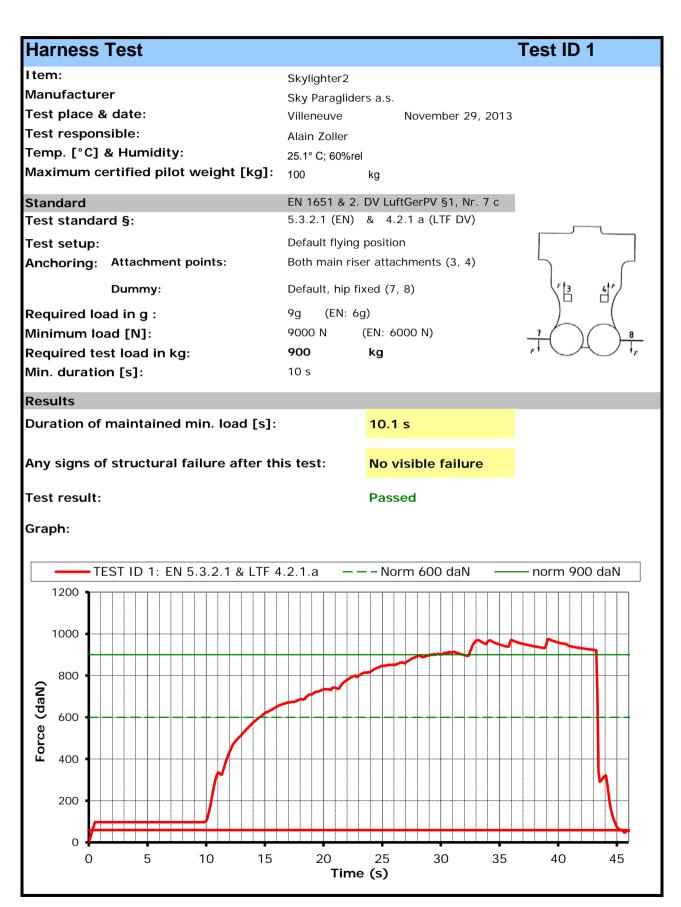


Air Turquoise S.A. - Certification of paraglider equipment Tested in accordance with EN 1651:1999 and 2.DV LuftGerPV1, Nr.7c

Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

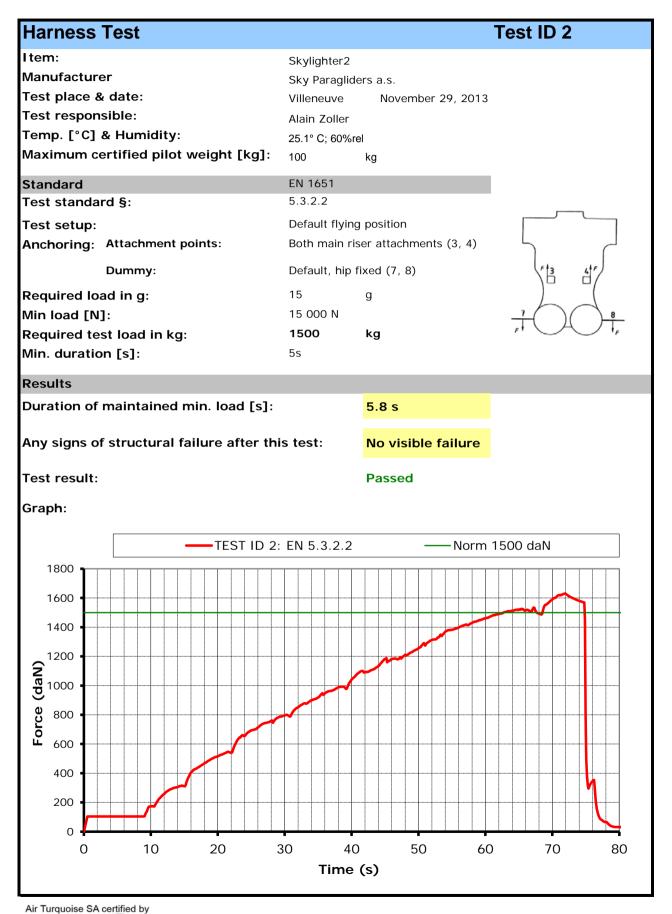
Air Turquoise SA Rte du Pré-au-Comte 8 | CH-1844 Villeneuve tel. +41 21 965 65 65 | mobile +41 79 202 52 30 info@para-test.com

Annex: detailed test reports



Air Turquoise SA certified by ISO 9001 BUREAU VERITAS

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





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 2 Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Harness Test			Test ID 3
I tem:	Skylighter2		
Manufacturer	Sky Paragliders	a.s.	
Test place & date:	Villeneuve	November 29, 2013	
Test responsible:	Alain Zoller		
Temp. [°C] & Humidity:	25.1° C; 60%rel		
Maximum certified pilot weight [kg]:	100	kg	
		3	
Standard	2. DV LuftGerPV	§1, Nr. 7 c	
Test standard §:	4.2.1.b		
Test setup:		efore landing: seat nding position, leg ed.	i A
Anchoring: Attachment points:	attached (3 and		3/4
Dummy:	Default, hip fixed	d (7, 8)	10
Required load in g:	6	g	7/8
Min load [N]:	6000 N		···
Required test load in kg:	600	kg	
Min. duration [s]:	10 s		
Results			
Duration of maintained min. load [s]:		10.8 s	
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
700			
600			
500			
eg. 400			
<u>8</u> 300 -			
93 300	N		
L 200 .			
100			
0 10	20	30	40 50
	Time (s	、 、	

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Harness 7	Fest			Test ID 4
Item:		Skylighter2		
Manufacture	r	Sky Paraglide	ers a.s.	
Test place &	date:	Villeneuve	November 29, 2013	
Test respons	ible:	Alain Zoller		
Temp. [°C] 8	& Humidity:	25.1° C; 60%r	el	
Maximum ce	rtified pilot weight [kg]:	100	kg	
			5	
Standard		EN 1651		
Test standar	d §:	EN 5.3.2.7		
Test setup:			on before landing: seat n landing position, leg closed.	4 F
Anchoring:	Attachment points:	Both of the r attached (3 a	main riser attachments and 4);	3/4
	Dummy:	Default, hip f	fixed (7, 8)	
Required loa	d in g:	15	g	
Min load [N]	:	15 000 N		7/8 , 11
Required tes	t load in kg:	1500	kg	
Min. duration	n [s]:	5 s		
Results				
	maintained min. load [s]:		5.2 s	
Duration of r		s test:	5.2 s No visible failure	
Duration of r Any signs of	maintained min. load [s]: structural failure after this	s test:	No visible failure	
Duration of r Any signs of		stest:		
Duration of r Any signs of Test result:		; test:	No visible failure	
Duration of r Any signs of Test result: Graph:			No visible failure	0 daN
Duration of r Any signs of Test result:	structural failure after this		No visible failure Passed	0 daN
Duration of r Any signs of Test result: Graph:	structural failure after this		No visible failure Passed	0 daN
Duration of r Any signs of Test result: Graph:	structural failure after this		No visible failure Passed	0 daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200	structural failure after this		No visible failure Passed	O daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200	structural failure after this		No visible failure Passed	0 daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200	structural failure after this		No visible failure Passed	O daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200 1200	structural failure after this		No visible failure Passed	O daN
Any signs of Test result: Graph: 1800 1600 1400 1200 1200 1000 800	structural failure after this		No visible failure Passed	O daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200 1000 800 600 400 200	structural failure after this		No visible failure Passed	O daN
Duration of r Any signs of Test result: Graph: 1800 1600 1400 1200 1000 800 600 400	structural failure after this		No visible failure Passed Norm 150 Norm 150Norm 150	0 daN

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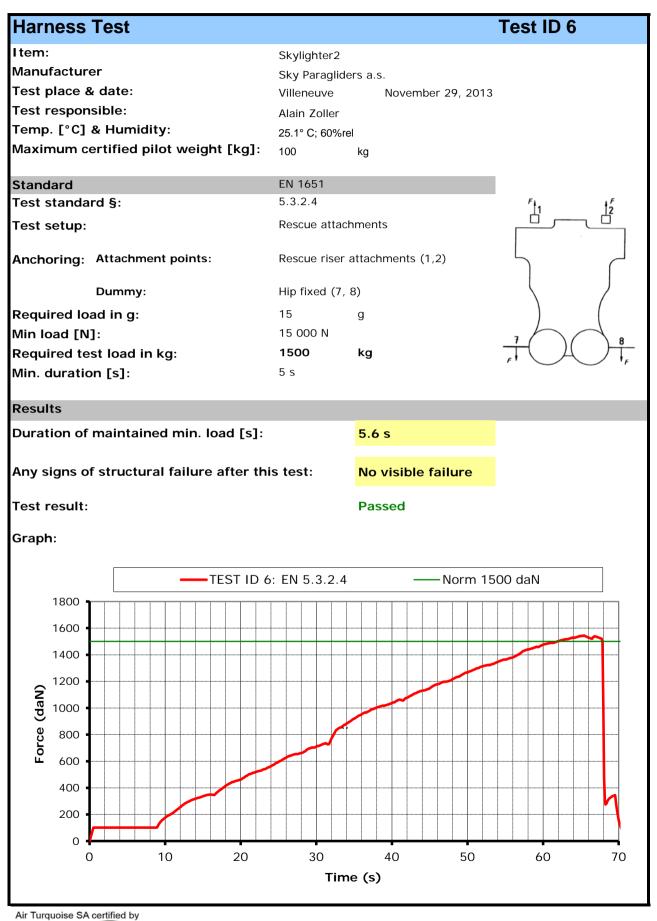
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Harness Test	Test ID 5
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter2 Sky Paragliders a.s. Villeneuve November 29, 2013 Alain Zoller 25.1° C; 60%rel 100 kg
Standard Test standard §: Test setup: Anchoring: Attachment points: Dummy: Required load in g: Min load [N]:	 2. DV LuftGerPV §1, Nr. 7 c 4.2.1.a rescue Rescue attachments Rescue riser attachments (1,2) Hip fixed (7, 8) 9 g 9 000 N
Required test load in kg: Min. duration [s]: Results Duration of maintained min. load [s]:	900 kg FI A IF
Any signs of structural failure after this Test result: Graph:	s test: No visible failure Passed
TEST ID 5: LTF 4.2	2.1.a.rescue — Norm 900 daN

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Harness Test			Test ID 7
I tem:	Skylighter2		
Manufacturer	Sky Paraglide	ers a.s.	
Test place & date:	Villeneuve	November 29, 2	2013
Test responsible:	Alain Zoller		
Temp. [°C] & Humidity:	25.1° C; 60%re	9	
Maximum certified pilot weight [kg]:		kg	
		0	
Standard	2. DV LuftGer	rPV §1, Nr. 7 c	E,
Test standard §:	4.2.1.b rescu	e	1/2
Test setup: Anchoring: Attachment points:	board (11) in straps (10) c	n before landing: sea landing position, leg losed. escue riser attachmen	t
Dummy:	attached (1 a Default, hip f	ind 2);	
-			
Required load in g:	6 6 000 N	g	
Min load [N]:	6 000 N	ka	7/8
Required test load in kg:	600	kg	
Min. duration [s]:	10 s		
Results			
Results Duration of maintained min. load [s]:	:	10.3 s	
		10.3 s No visible failure	e
Duration of maintained min. load [s]:			e
Duration of maintained min. load [s]: Any signs of structural failure after th		No visible failure	e
Duration of maintained min. load [s] Any signs of structural failure after th Test result:	his test:	No visible failure Passed	e - Norm 600 daN
Duration of maintained min. load [s] Any signs of structural failure after th Test result: Graph:	his test:	No visible failure Passed	
Duration of maintained min. load [s] Any signs of structural failure after th Test result: Graph: TEST ID 7: L	his test:	No visible failure Passed	
Duration of maintained min. load [s] Any signs of structural failure after the Test result: Graph: 700	his test:	No visible failure Passed	
Duration of maintained min. load [s] Any signs of structural failure after the Test result: Graph: 700 600 500	his test:	No visible failure Passed	
Duration of maintained min. load [s] Any signs of structural failure after the Test result: Graph: 700 600 500	his test:	No visible failure Passed	
Duration of maintained min. load [s]: Any signs of structural failure after the Test result: Graph:	his test:	No visible failure Passed	
Duration of maintained min. load [s] Any signs of structural failure after the Test result: Graph: Test ID 7: L 700 600 500 400 90 300	his test:	No visible failure Passed	
Duration of maintained min. load [s]: Any signs of structural failure after the Test result: Graph:	his test:	No visible failure Passed	
Duration of maintained min. load [s]: Any signs of structural failure after the Test result: Graph: Test ID 7: L 700 600 500 400 200 0 0 0 0 0 0 0 0 0 0 0 0	his test:	No visible failure Passed	

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Harness Test	Test ID 8
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]: Standard Test standard §: Test setup: Anchoring: Attachment points: Dummy:	Skylighter2 Sky Paragliders a.s. Villeneuve November 29, 2013 Alain Zoller 25.1° C; 60%rel 100 kg EN 1651 5.3.2.3 Only one riser attached One main riser attachments (3) Hip fixed (7, 8 -> 12)
Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	6 g 6 000 N 600 kg 10 s
Results Duration of maintained min. load [s]:	10.4 s
Any signs of structural failure after thi	is test: No visible failure
Test result: Graph:	Passed
	.3.2.3 ——Norm 600 daN
0 10 20	30 40 50 60 Time (s)

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Harness Test			Test ID 10
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter2 Sky Paraglide Villeneuve Alain Zoller 25.1° C; 60%re 100	November 29, 3	2013
Standard	EN 1651		
Test standard §:	5.3.2.6		I.F.
Test setup:	Normal flying	position in NEGATIF	~~~°°
Anchoring: Attachment points:		nain riser attachment vnwards(3 or 4);	s j
Dummy:	Dummy anch (9)	nored at the head pos	ition
Required load in g:	4.5	g	\mathcal{A}
Min load [N]:	4500 N	ka	$(2 \cap$
Required test load in kg: Min. duration [s]:	450 10 s	kg	F
	10.5		
Results			
Duration of maintained min. load [s]:		10.3 s	
Any signs of structural failure after thi	is test:	No visible failur	e
Test result:		Passed	
Graph:			
TEST ID 10:	EN 5.3.2.6	Norr	n 450 daN
600			
500			
2 ⁴⁰⁰			
90 Joo Joo Joo Joo Joo Joo Joo Joo Joo Jo			
S 100 300 200			
Ē 200			
100			
	20	30	40 50
	20 Time		40 50



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Item: Skylighter2 Manufacturer Sky Paragliders a.s. Test place & date: Villeneuve November 29, 2013 Test responsible: Alain Zoller Temp. [°C] & Humidity: 25,1°C; 60%rel Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LuftGerPV §1, Nr. 7 c Test standard §: 4.2.1.c Test standard §: 4.2.1.c Test standard §: Pilot upside down flying position Anchoring: Attachment points: Both of the main riser attachments attached downwards (3 and 4); Dummy: Dummy anchored at the head position (9) 9 Required load in g: 6 g Min load [N]: 6000 N Kg Required test load in kg: 6000 kg Image: Standard (9) Duration of maintained min. load [s]: 10.9 s Image: Standard (9) Duration of maintained min. load [s]: No visible failure Any signs of structural failure after this test: No visible failure Test result: Passed	Harness Test	Test ID 11
Manufacturer Sky Paragliders a.s. Test place & date: Test responsible: Maximum certified pilot weight [kg]: Maximum certified pilot [kg]: Maximum		
Test place & date: Test paper is a standard in the standard is a standard in the standard is a stan		
Test responsible: Alain Zolter Temp. [*C] & Humidity: Z5.1* C; 60%rel Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LultGerPV \$1, Nr. 7 c Test standard §: 4.2.1.c Test steup: Pilot upside down flying position Anchoring: Attachment points: Both of the main riser attachments attached downwards (3 and 4): Dummy: Dummy anchored at the head position (9) Required test load in g: 6 g Min load [N]: 6000 N Required test load in kg: 600 kg Min duration [s]: 10 s Results Duration of maintained min. load [s]: 10.9 s Anay signs of structural failure after this test: No visible failure Test result: Passed Graph: 10 - TEST ID 11: LTF 4.2.1.c - Norm 600 daN		
Temp. [°C] & Humidity: 25.1°C; 60%rel Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LuttGerPV \$1, Nr. 7 c Test standard \$: 4.2.1.c Test setup: Attachment points: Both of the main riser attachments attached downwards (3 and 4): Dummy: Dummy anchored at the head position (9) Required load in g: 6 g Min load [N]: 6000 kg Min. duration [s]: 10 s Results Duration of maintained min. load [5]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: Test result: Difference for the main riser attachment of the main riser attachments attached downwards (10.9 s) Results Duration of maintained min. load [5]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	•	
Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LuftGerPV \$1, Nr. 7 C Test standard §: 4.2.1.c Test setup: Pilot upside down flying position Anchoring: Attachment points: Both of the main riser attachments attached downwards (3 and 4): Dummy: Dummy anchored at the head position (9) Required load in g: 6 g Min load [N]: 6000 kg Min. duration [s]: 10 s Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: $10 = 111 \pm LTF 4.2.1.c$ — Norm 600 daN	-	
Standard 2. DV LuftGerPV \$1, Nr. 7 c Test standard §: 4.2.1.c Test statup: Pilot upside down flying position Anchoring: Attachment points: Dummy: Dummy anchored at the head position Required load in g: 6 6 9 6000 N Required test load in kg: 600 N Min. duration [s]: 10 s Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: TEST ID 11: LTF 4.2.1.c —Norm 600 daN 000000000000000000000000000000000000		
Test standard §: 4.2.1.c Test setup: Anchoring: Attachment points: Dummy: Dummy: Dummy anchored at the head position (9) Required load in g: 6 g Min load [N]: 6000 N Required test load in kg: 600 kg Min. duration [s]: 10 s Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: Test TID 11: LTF 4.2.1.c - Norm 600 daN 000 daN	Maximum certined phot weight [kg].	100 kg
Test setup: Pilot upside down flying position Anchoring: Attachment points: Both of the main riser attachments attached downwards (3 and 4): Dummy: Dummy anchored at the head position Required load in g: 6 g Min load [N]: 600 kg Required test load in kg: 600 kg Min. duration [s]: 10 s Results 10.9 s Portation of maintained min. load [s]: No visible failure Test result: Passed Graph: 000 for the full of the failure Outration of maintained min. load [s]: No visible failure Test result: Passed Graph: 000 for the failure Outration of maintained min. load [s]: No visible failure Test result: Passed Graph: 000 for the failure Outration of maintained min. load [s]: No visible failure Test result: Passed Graph: 000 for the failure Outration of maintained min. load [s]: 000 for the failure Outration of maintained min. load [s]: 000 for the failure Outration of maintained mi	Standard	2. DV LuftGerPV §1, Nr. 7 c
Anchoring: Attachment points: Dummy: Dummy: Required load in g: Required test load in kg: Min load [N]: Required test load in kg: Min. duration [s]: Dummy anchored at the head position (9) Required test load in kg: 000 kg 10 s Results Duration of maintained min. load [s]: Results Duration of maintained min. load [s]: Test result: Test result: Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Duration of maintaine	Test standard §:	4.2.1.c
attached downwards (3 and 4): Dummy: Dummy anchored at the head position Required load in g: 6 g Min load [N]: 6000 kg Min. duration [s]: 10 s Results 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph: 0 0 0	Test setup:	Pilot upside down flying position
Required load in g: 6 000 N Required test load in kg: 6 000 N Required test load in kg: 10 s Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: Test result: Test result: Test result: Passed Graph: $\int_{0}^{0} \int_{0}^{0} \int_{0}^{-TEST ID 11: LTF 4.2.1.c} -Norm 600 daN$	Anchoring: Attachment points:	
Required load in g: Bin load [N]: Required test load in kg: 6000 kg Min. duration [s]: 10 s Results Duration of maintained min. load [s]: Any signs of structural failure after this test: Test result: Test result: Passed Graph:	Dummy:	
Required test load in kg: 00 10 s kg Min. duration [s]: 10 s for a second seco	Required load in g:	6 g)⊢ ⊣∕
Min. duration [s]: 10 s Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Min load [N]:	6 000 N
Results Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Required test load in kg:	600 kg ()()
Duration of maintained min. load [s]: 10.9 s Any signs of structural failure after this test: No visible failure Test result: Passed Graph:	Min. duration [s]:	10 s
Any signs of structural failure after this test: Test result: Graph:	Results	
Test result: Pased Graph:	Duration of maintained min. load [s]:	10.9 s
Graph:	Any signs of structural failure after thi	is test: No visible failure
$ \begin{array}{c} & -\text{TEST ID 11: LTF 4.2.1.c} \\ & -\text{Norm 600 daN} \\ & 0 \\$	Test result:	Passed
$r_{\rm b}$ r_{c	Graph:	
600 (M)		Norm 600 daN
f_{0}^{0} f_{0		
$ \begin{pmatrix} \mathbf{y} \\ \mathbf{y}$	600	
$\begin{array}{c} 200 \\ 100 \\ 0 \\ 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \end{array}$	500	
$\begin{array}{c} 200 \\ 100 \\ 0 \\ 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \end{array}$		
$\begin{array}{c} 200 \\ 100 \\ 0 \\ 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \end{array}$		
$\begin{array}{c} 200 \\ 100 \\ 0 \\ 0 \\ 5 \\ 10 \\ 15 \\ 20 \\ 25 \\ 30 \\ 35 \end{array}$	•	
	e 300 • • • • • • • • • • • • • • • • • •	
0 5 10 15 20 25 30 35	200	
Time (s)	200 •	
	200 • • • • • • • • • • • • • • • • • •	

Air Turquoise SA certified by ISO 9001 BUREAU VERITAS Certification

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 11 Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Harness Test			Test ID 12	
I tem:	Skylighter2			
Manufacturer	Sky Paraglide	rs a.s.		
Test place & date:	Villeneuve	November 29, 2013	}	
Test responsible:	Alain Zoller			
Temp. [°C] & Humidity:	25.1° C; 60%rel			
Maximum certified pilot weight [kg]:	100	kg		
Standard	2. DV LuftGer	PV §1, Nr. 7 c		
Test standard §:	4.2.1.c rescue	2	1 + P 2	
Test setup:	Pilot upside de	own flying position	_q^	
Anchoring: Attachment points:		scue riser attachments nwards (1 and 2);		
Dummy:	Dummy ancho (9)	pred at the head position		
Required load in g:	6	g		
Min load [N]:	6 000 N		\square	
Required test load in kg:	600	kg	\square	
Min. duration [s]:	10 s			
Results				
		10.0		
Duration of maintained min. load [s]:		10.3 s		
Any signs of structural failure after th	is test:	No visible failure		
Test result:		Passed		
Graph:				
TEST ID 12: LT	F 4.2.1.c.resc	ue — Norm	600 daN	
700				
600				
500 • · · · · · · · · · · · · · · · · · ·				
400 • • • • • • • • • • • • • • • • • •				
9 300			4	
2 00 -				
100 •				
	20	30	40	

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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 12 Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Protector sho	ock test	Test ID Protect
l tem: Manufacturer Test place & date Test responsible: Temp. [°C] & Hur Maximum certifie		Skylighter2 Sky Paragliders a.s. Villeneuve November 29, 2013 Alain Zoller 25.1° C; 60%rel 100 kg
Standard		2. DV LuftGerPV §1, Nr. 7 c
Test standard §:		5.1.1
Test setup:		 Harness attached to protector test dummy, in a similar way like a real pilot in flight. Impact will be simulated by dropping the dummy from a certain height (with and without reserve). To simulate the "in-flight" conditions, the airbag is inflated with pressurized air equalling an airspeed of 7m/s. Inflation has to be stopped at least 5 sec before impact.
		Impact will be measured by an accelerometer mounted on the dummy. (Impact measured in g's)
Requirements:	Minimun height:	1.65 m (between 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:	The test will be performed 2 times, minimum 1 hour and maximum 2 hours after the first impact (with airbag protectors this pause is not necessary). The 2 Max-values should not differ more than 20%
Results		
Shock test 1:		
Impact at a height of 1.65m:		43.09
Impact duration of + 38 g (if any):		5.84
Impact duration	of +20 g (if any):	$\frac{19.76}{\Delta < 20\%?}$
<u>Shock test 2:</u>		
Impact at a height of 1.65m:		43.81
Impact duration of+ 38 g (if any):		6.72
Impact duration	of +20 g (if any):	19.11
Test Result:		Passed

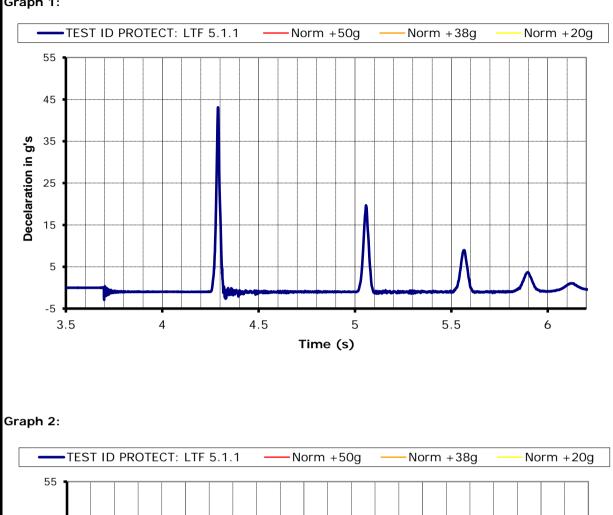


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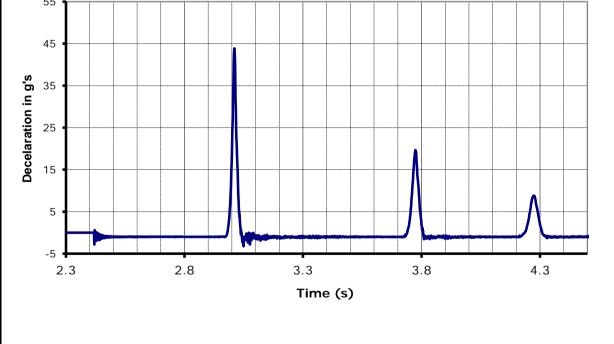
Graph 1:

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

Rescue deployment resistance	e test Test ID resc
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter2 Sky Paragliders a.s. Villeneuve November 29, 2013 Alain Zoller 25.1° C; 60%rel 100 kg
Standard	2. DV LuftGerPV §1, Nr. 7 c
Test standard §:	6.1.5
Test setup:	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: Max force for single hand deployment: Min force to prevent unwanted opening:	approx. 70 N approx. 20 N
Results	
Measured peak to peak required force for deployment [daN]:	6 daN
Comment:	Passed
Graph:	
TEST ID rescue deploym	nent 1 Max 7 daN Min 2 daN
B C C C C C C C C C C C C C	
	3 4 5 6 Time (s)

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Rescue deployment strap strength testTest ID resc strap				
Item:	Skylighter2			
Manufacturer	Sky Paragliders a.s.			
Test place & date:	Villeneuve November 29, 2013			
Test responsible:	Alain Zoller			
Temp. [°C] & Humidity:	25.1° C; 60%rel			
Maximum certified pilot weight [kg]:	100 kg			
Standard	EN 12491 & 2. DV LuftGerPV §1, Nr. 7 c 5.3.2 (EN 12491) & 6.1.8 (LTF)			
Test standard §: Test setup:	5.3.2 (EN 12491) & 6.1.8 (LTF) 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 sec			
Breaking resistance [daN]:	105.2			
Comment:	Passed			
Graph:				
TEST ID rescue st	rap strenght Min 70 daN			
120 100 100 100 100 100 100 100				
-20 -20 -20 -20 -20 -20 -20 -20 -20 -20				



Annex TEST ID resc strap Prepared by RE Rev.0, 25.01.2011 No. 71.9.3