

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:	Skylighter
Size:	Medium
Harness Weight:	2.8 kg
Maximum certified pilot	100 kg
Impact protection type:	Air Bag protection
Harness type:	ABS
Test responsible:	Alain Zoller
Test place:	Villeneuve
Test date:	May 08, 2013
Test room temp & humidity:	23,4° C; 37 %rel
Certification number EN:	PH 042.2013
Certification number LTF:	GZ 042.2013

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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 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	 Image: A second s	5.3.2.4	4.2.1.a rescue	Rescue	2 rescue att.	Hip fixated	9g 15g	9000 15000	10 5	ок ок
7	✓		4.2.1.b rescue	Rescue , landing	Pnts.	Hip fixated, landing conf.	6g	6000	10	ок
8	 ✓ 	5.3.2.3		One riser	ONE main att.	1 central hip fixation	6g	6000	10	ок
9	1	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, Neqatif	One main att.	Head fix.	4.5g	4500	10	ок
11	✓ I I		4.2.1.c	Upside down	2 main att. downw.	Head fix	6g	6000	10	ок
12	✓ 		4.2.1.c rescue	Upside down rescue	2 rescue att. downw.	Head fix.		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	horing		Impac	t	·	
Fest ID	rested ?	rd Ref.: LTF	TEST setup	Attach- ment points	ymmu	Max. tolerated peak impact in g	Max Peak impact measured	mpact duration of +38 g (if any) ecorded:	mpact duration of +20 g (if any) ecorded:	Result
PRO TECT 1	✓	5.1.1	Default flying position	Test dummy the harness	y is attached to s like a pilot in ight.		40.34 g	2.9 ms	16.00 ms	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.

	ć	Standa rd Ref.		Ancl Attach-	horing	Force for sin Min.	ngle han I Iviax. I force	d deployment	
Test ID	TESTED	LTF	TEST se	points	Dumm	force [N]	[N]	Resistance measured [daN]	Result
Resc	~	6.1.5	Default flying	attached to like a pil	ponisble is o the harness ot in flight.	20 N	70 N	n/t	ок
depl		1 1 	position		ny required)	 -	 -		

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:

SKY Paragliders a.s. Skylighter 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, May 08, 2013



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Place, Date

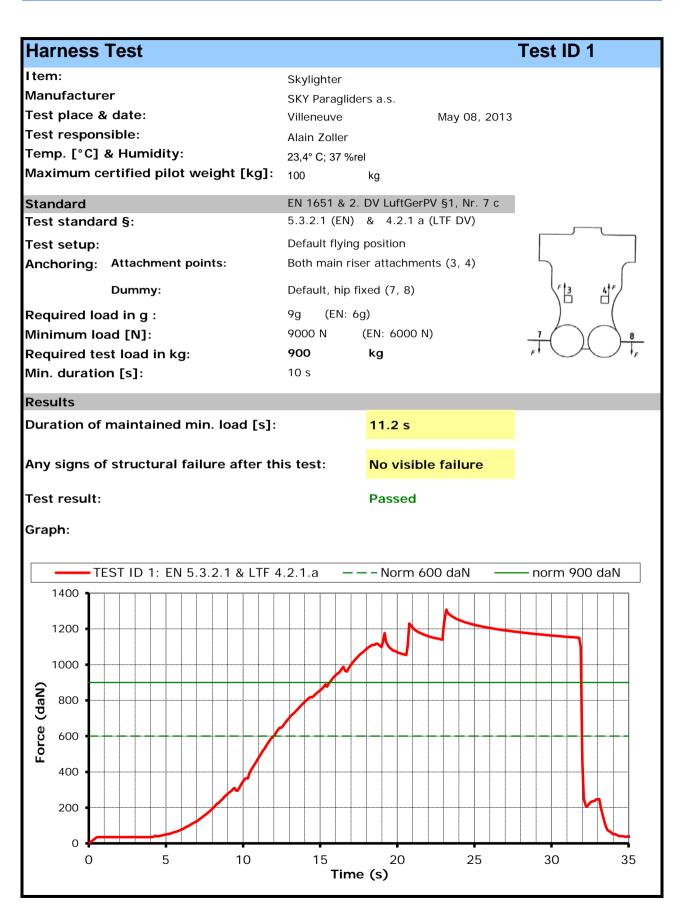


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Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

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Annex: detailed test reports



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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

Harness Test			Test ID 2
Item:	Skylighter		
Manufacturer	SKY Paragliders a.s.		
Test place & date:	Villeneuve	May 08, 2013	
Test responsible:	Alain Zoller		
Temp. [°C] & Humidity:	23,4° C; 37 %rel		
Maximum certified pilot weight [kg]:	100 kg		
Standard	EN 1651		
Test standard §:	5.3.2.2		
Test setup:	Default flying position	on	
Anchoring: Attachment points:	Both main riser atta	chments (3, 4)	5 6
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		FI IF
Min. duration [s]:	5s		
Results			
Duration of maintained min. load [s]:	7.9 s	;	
Any signs of structural failure after thi	s test: No v	isible failure	
Test result:	Pass	ed	
Graph:			
TEST ID 2:	EN 5.3.2.2	Norm	1500 daN
1800			
1600 •			
1400		- And and a second seco	
P ¹²⁰⁰		¥	
b 1000 •			
8 800			
L 600 •			
400			
200			
25.0 45.0 6	5.0 85	.0 10	D5.0 125.0
	Time (s)		
	Time (S)		

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Harness Test	Test ID 3
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]: Standard Test standard §: Test setup: Anchoring: Attachment points:	Skylighter SKY Paragliders a.s. Villeneuve May 08, 2013 Alain Zoller 23,4° C; 37 %rel 100 kg 2. DV LuftGerPV §1, Nr. 7 c 4.2.1.b Flying position before landing: seat board (11) in landing position, leg straps (10) closed. Both of the main riser attachments
Dummy:	attached (3 and 4); Default, hip fixed (7, 8)
Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	6 g 6000 N 600 kg 10 s
Results	
Duration of maintained min. load [s]: Any signs of structural failure after thi Test result:	11.2 s s test: No visible failure Passed
Graph:	
Geo Goo -3 2 2	F 4.2.1.b ——Norm 600 daN

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Harness Test	Test ID 4	
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter SKY Paragliders a.s. Villeneuve May 08, 2013 Alain Zoller 23,4° C; 37 %rel 100 kg	
Standard	EN 1651	
Test standard §:	EN 5.3.2.7	
Test setup: Anchoring: Attachment points:	Flying position before landing: seat board (11) in landing position, leg straps (10) closed. Both of the main riser attachments	7
Dummy:	attached (3 and 4); Default, hip fixed (7, 8)	/
Required load in g:	15 g	-10
Min load [N]:	15 000 N	11
Required test load in kg:	1500 kg	
Min. duration [s]:	5 s	
Results		
Duration of maintained min. load [s]:	7.2 s	
Any signs of structural failure after thi	s test: No visible failure	
Test result:	Passed	
Graph:		
TEST ID 4: E	N 5.3.2.7 — Norm 1500 daN	
	┝ ╶╎╎╎╎╎╎╎╎╎╎╎	
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g 800		
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200		
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Harness Test	Test ID 5
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]: Standard Test standard §: Test setup: Anchoring: Attachment points:	Skylighter SKY Paragliders a.s. Villeneuve May 08, 2013 Alain Zoller 23,4° C; 37 %rel 100 kg 2. DV LuftGerPV §1, Nr. 7 c 4.2.1.a rescue Rescue attachments Rescue riser attachments (1,2)
Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	Hip fixed (7, 8) 9 g 9 000 N 900 kg 10 s
Duration of maintained min. load [s]: Any signs of structural failure after this Test result: Graph:	11.9 s 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 6
l tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter SKY Paraglide Villeneuve Alain Zoller 23,4° C; 37 %r 100	May 08, 2013	
Standard	EN 1651		
Test standard §:	5.3.2.4		
Test setup:	Rescue attacl	hments	
Anchoring: Attachment points:	Rescue riser	attachments (1,2)	
Dummy:	Hip fixed (7,	8)	
Required load in g:	15	g) (
Min load [N]:	15 000 N		7 8
Required test load in kg:	1500	kg	FT A TF
Min. duration [s]:	5 s		
Results			
Duration of maintained min. load [s]:		7.2 s	
Any signs of structural failure after th	is test:	No visible failure	
Test result:		Passed	
Graph:			
	6. EN 5 3 2 <i>1</i>		
	0. LIN 0.0.2.4	—— Norm 15	b00 daN
		Norm 18	
18 00 - 16 00 -			
18 00 • 16 00 • 14 00 •			
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			Test ID 7
Villeneuve Alain Zoller 23,4° C; 37 %rel	ſ	May 08, 2013	
2. DV LuftGer	PV §1, Nr. 7	С	F,
Flying position board (11) in l straps (10) clc Both of the res	before land landing pos osed. scue riser a	ition, leg	
-			
6 6 000 N	g		
		e failure	
	Passed		
15	20	Nor	m 600 daN
	SKY Paraglider Villeneuve Alain Zoller 23,4° C; 37 %rel 100 2. DV LuftGerf 4.2.1.b rescue Flying position board (11) in straps (10) clo Both of the res attached (1 ar Default, hip fix 6 6 000 N 600 10 s F 4.2.1.b.res F 4.2.1.b.res F 4.2.1.b.res	SKY Paragliders a.s. Villeneuve A Alain Zoller 23,4° C; 37 %rel 100 kg 2. DV LuftGerPV §1, Nr. 7 4.2.1.b rescue Flying position before land board (11) in landing posistraps (10) closed. Both of the rescue riser a attached (1 and 2); Default, hip fixed (7, 8) 6 g 6 000 N 600 kg 10 s 11.2 s is test: No visible Passed F 4.2.1.b.rescue F 4.2.1.b.rescue	Skylighter SkY Paragliders a.s. Villeneuve May 08, 2013 Alain Zoller 23,4° C; 37 %rel 100 kg 2. DV LuftGerPV \$1, Nr. 7 c 4.2.1.b rescue Flying position before landing: seat board (11) in landing position, leg straps (10) closed. Both of the rescue riser attachments attached (1 and 2); Default, hip fixed (7, 8) 6 g 600 N 600 N 600 N 600 N 600 N 7 9 10 s

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Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]: Maximum certified pilot weight [kg]: Standard Test standard §: Test setup: Anchoring: Attachment points: Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results Duration of maintained min. load [s]:	Skylighter SKY Paraglide Villeneuve Alain Zoller 23,4° C; 37 %re 100 EN 1651 5.3.2.3	May 08, 20	13
Test standard §: Test setup: Anchoring: Attachment points: Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results			
Test setup: Anchoring: Attachment points: Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results	5.3.2.3		
Anchoring: Attachment points: Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results			_
Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results	Only one riser	r attached	\sim
Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results	One main rise	er attachments (3)	
Min load [N]: Required test load in kg: Min. duration [s]: Results	Hip fixed (7, 8	8 -> 12)	
Required test load in kg: Min. duration [s]: Results	6	g	$\langle \langle \cdot \rangle \langle \cdot \rangle$
Min. duration [s]: Results	6 000 N		
Results	600	kg	F IZ
	10 s		
Duration of maintained min. load [s]:			
		13.3 s	
Any signs of structural failure after thi	s test:	No visible failure	
Test result:		Passed	
Graph:			
	.3.2.3	Norm	600 daN
600-			
500-			
2			
, qal			
A00 - 600 -			
200 •			
100 •			
-10.0 40.0			

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Harness Test			Test ID 10
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Skylighter SKY Paragliders a Villeneuve Alain Zoller 23,4° C; 37 %rel 100 kg	n.s. May 08, 2013	
Standard Test standard §: Test setup: Anchoring: Attachment points: Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	attached downwa	riser attachments rds(3 or 4); I at the head position	3/4 3/4
Results Duration of maintained min. load [s]:	40	5.1 s	
Any signs of structural failure after thi Test result: Graph:		o visible failure Issed	
TEST ID 10:			



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Item:	Skylighter		
Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	SKY Paragliders a.s. Villeneuve Alain Zoller 23,4° C; 37 %rel 100 kg	May 08, 2013	
Standard	2. DV LuftGerPV §1, Nr.	. 7 c	
Test standard §:	4.2.1.c Pilot upside down flying	nosition	<u>_</u> 9
Test setup: Anchoring: Attachment points:	Both of the main riser a		
Dummy:	attached downwards (3 Dummy anchored at the (9)	-	
Required load in g:	6 g		
Min load [N]:	6 000 N		
Required test load in kg: Min. duration [s]:	600 kg 10 s		\square
Results			
Duration of maintained min. load [s]:	10.9 s		
Any signs of structural failure after thi	s test: No visil	ble failure	
Test result:	Passed		
Graph:			
TEST ID 11: L	TF 4.2.1.c	Norm d	600 daN
Force (dan)			
-2 3 8	13 18 2	23 28	33 38

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Harness Test			Test ID 12
Item:	Skylighter		
Manufacturer	SKY Paragliders a.s.		
Test place & date:	Villeneuve	May 08, 2013	
Test responsible:		May 00, 2013	
Temp. [°C] & Humidity:	Alain Zoller		
	23,4° C; 37 %rel		
Maximum certified pilot weight [kg]:	100 kg		
Standard	2. DV LuftGerPV §1,	Nr. 7 c	
Test standard §:	4.2.1.c rescue		1 1 ^F
Test setup:	Pilot upside down fly	ng position	Ļ "®°, Ļ
Anchoring: Attachment points:	Both of the rescue ris attached downwards		
Dummy:	Dummy anchored at (9)	the head position	
Required load in g:	6 g)(
Min load [N]:	6 000 N		\square
Required test load in kg:	600 kg		(A)
Min. duration [s]:	10 s		
Results			
Duration of maintained min. load [s]:	11.4	S	
Any signs of structural failure after th	nis test: No v	isible failure	
Test result:	Pass	sed	
	Pass	ed	
Graph: TEST ID 12: LT	Pass		600 daN
Graph: 			500 daN
Graph:			500 daN
Graph:	TF 4.2.1.c.rescue	Norm 0	
800 700 600 600 400 400 200 100 0		Norm 0	

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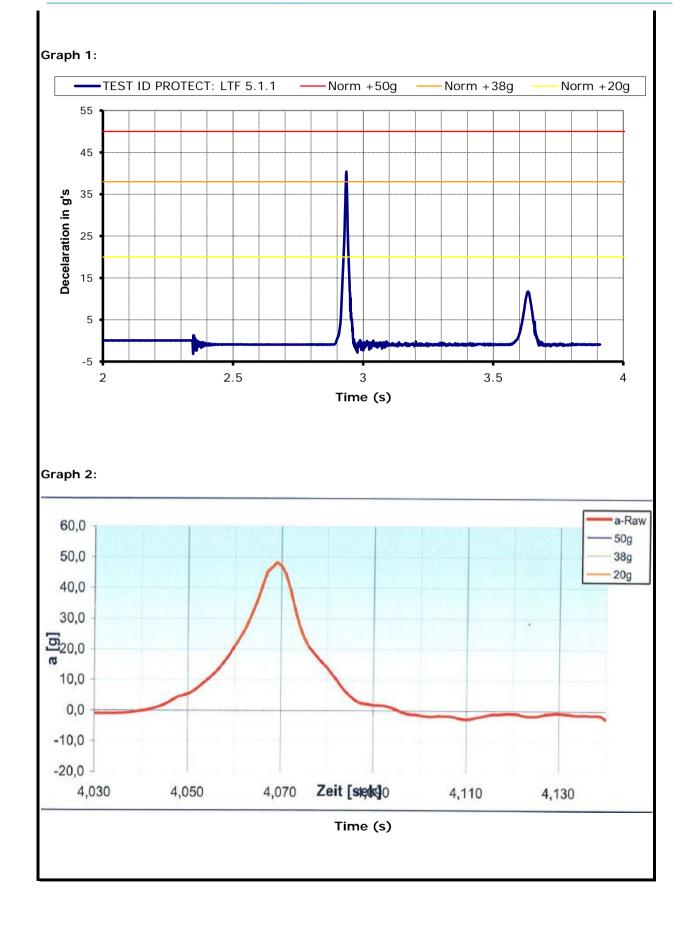
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Protector sho	ock test		Test ID Protect
I tem:		Skylighter	
N /		SKY Paragliders a.s.	
Test place & date	:	Villeneuve May 08, 20	013
Test responsible:		Alain Zoller	
Temp. [°C] & Humidity:		23,4° C; 37 %rel	
Maximum certified pilot weight [kg]:		100 kg	
Standard		2. DV LuftGerPV §1, Nr. 7	C
Test standard §: 5.		5.1.1	
		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).	
		8	conditions, the airbag is inflated with n airspeed of 7m/s. Inflation has to be re impact.
Impact will be measured by dummy. (Impact measured		y an accelerometer mounted on the 1 in g's)	
Requirements:	Minimun height:	1.65 m (between lowest po	bint test dummy and impact surface)
	Impact requirements:	+50g as absolute maximur	n;
		+38g during less than 7 m	sec;
		+20g during less than 25 n	nsec.
	Repetitions:	The test will be performed 2 times, minimum 1 hour and maximum 2 hours after the first impact (with airbag pro this pause is not necessary). The 2 Max-values should n more than 20%	
Results			
<u>Shock test 1:</u>			
Impact at a heigh	nt of 1.65m:	40.34 g	
Impact duration	of+ 38 g (if any):	<mark>2.9 ms</mark>	
Impact duration	of +20 g (if any):	16.00 ms	
<u>Shock test 2:</u>			<u>Δ<20 % ?</u>
Impact at a heigh	nt of 1.65m:	48.3 g	
Impact duration of+ 38 g (if any):		6.87 ms	
Impact duration of +20 g (if any):		16.6 ms	
Test Result:		Passed	
l			



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

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PD

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

Rescue deployment resistance test Test ID resc Item: Skylighter Manufacturer SKY Paragliders a.s. Test place & date: Villeneuve May 08, 2013 Test responsible: Alain Zoller Temp. [°C] & Humidity: 23,4° C; 37 %rel Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LuftGerPV §1, Nr. 7 c Test standard §: 6.1.5 The deployment of the rescue system has to be ensured in all Test setup: 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. Max force for single **Requirements:** hand deployment: approx. 70 N Min force to prevent unwanted opening: approx. 20 N Results Measured peak to peak required force 5.1 daN for deployment [daN]: Comment: Passed Graph: • TEST ID rescue deployment 1 Max 7 daN - · - · Min 2 daN 8 7 6 Pulling force in daN 5 4 3 2 1 0 -1 0.00000 0.20000 0.40000 0.60000 0.80000 1.00000 1.20000 1.40000 Time (s) Air Turquoise SA certified by



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

Rescue deployment strap stre	ngth test	Test ID resc strap
Item:	Skylighter	
Manufacturer	SKY Paragliders a	I.S.
Test place & date:	-	ay 08, 2013
Test responsible:	Alain Zoller	
Temp. [°C] & Humidity:	23,4° C; 37 %rel	
Maximum certified pilot weight [kg]:	100 kg	
	_	
Standard	EN 12491 & 5.3.2 (EN 1249	2. DV LuftGerPV §1, Nr. 7 c
Test standard §:		1) & 6.1.8 (LTF) he outer container has to be connected to the
Test setup:	inner container w possible to use th containers. The connection b have sufficient lo that may arise du	ith a removable loop in a way that it is ne inner container with different types of outer etween handgrip and inner container has to ad capacity/structural strength in any situation uring normal operation.
		this, the connection is tested on its tensile ault tensile testing setup.
	In addition to this measured.	s the breaking resistance will also be
Requirements: Min. tensile strenght for 10 s:	700 N (= 70daN)	
Results		
Duration of maintained load [s]:	10.1 s	
Breaking resistance [daN]:	90	
Comment:	Passed	
Graph:		
	rap strenght	——Min 70 daN
100		
90		
280		
Clensile strengbt (daNb 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
10		
0		
7.00000 12.00000	17.00000 Time (s)	22.00000 27.00000



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