

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:	DUDEK Paragliders J.S.
Harness model:	Soul
Size:	All
Harness Weight:	3.5 kg
Maximum certified pilot weight:	100 kg
Impact protection type:	Mousse bag
Harness type:	ABS
Test responsible:	Alain Zoller
Test place:	Villeneuve
Test date:	October 17, 2014
Test room temp & humidity:	21,6° C; 24 %rel
Certification number EN:	PH 122.2015
Certification number LTF:	GZ 122.2015



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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	2 main attachment	Hip fixated	6g 9g	6000 9000	10	ок
2	✓	5.3.2.2		position	points		15g	15000	5	ОК
3	~		4.2.1.b	Default, landing	2 main att.	Hip fixated,	6g	6000	10	ОК
4	✓	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	✓	5.3.2.4			2 rescue att. Pnts.		15g	15000	5	ОК
7	~		4.2.1.b rescue	Rescue , landing	FIIIS.	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		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	✓		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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Test ID	TESTED ?	Standa rd Ref.: LTF	TEST setup	Ancl Attach- ment points	horing Au	Max. tolerated peak impact in g	Max Peak impact M measured con	Impact duration of +38 g (if any) recorded:	l mpact duration of +20 g (if any) recorded:	Result
PRO TECT 1	~	5.1.1	Default flying position	the harness	v is attached to s like a pilot in ight.	+50g	44.98	6.56	17.22	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.

Fest ID	rested ?	Standa rd Ref. LTF	TEST setup	Ancl Attach- ment points	horing	Force for sir Min. force [N]	ngle han wax. force [N]	d deployment Resistance measured [daN]	Result
Resc depl	✓	6.1.5	Default flying position	attached to like a pil	ponisble is 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:

DUDEK Paragliders J.S. Soul All

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, October 17, 2014



Test responsible

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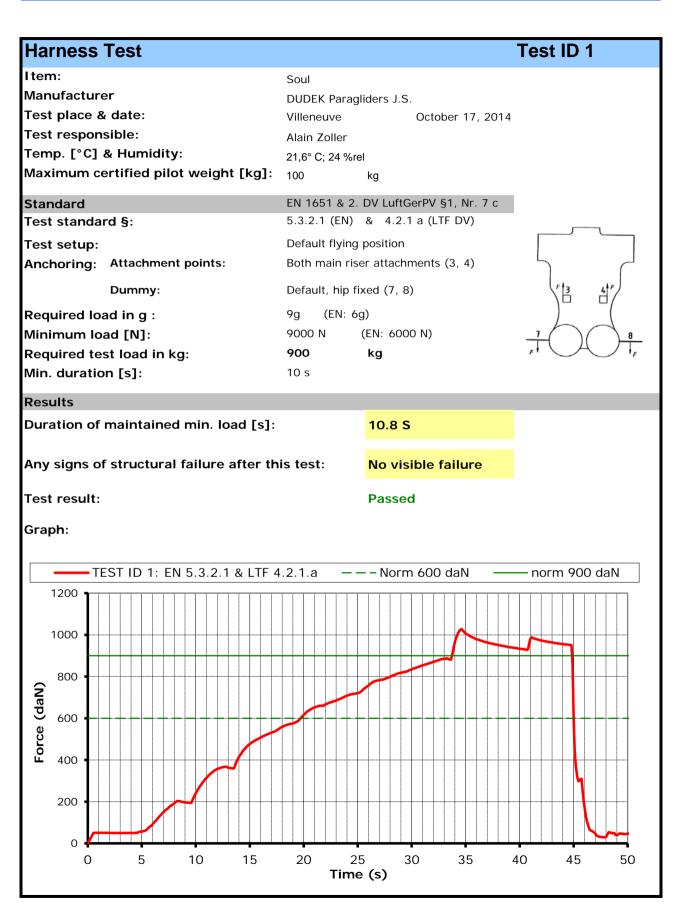
Air Turquoise S.A. - Certification of paraglider equipment Tested in accordance with EN 1651:1999 and 2.DV LuftGerPV§1, Nr.7c

Prepared by RE Rev.0, 25.01.2011 No. 71.9.3

Place, Date

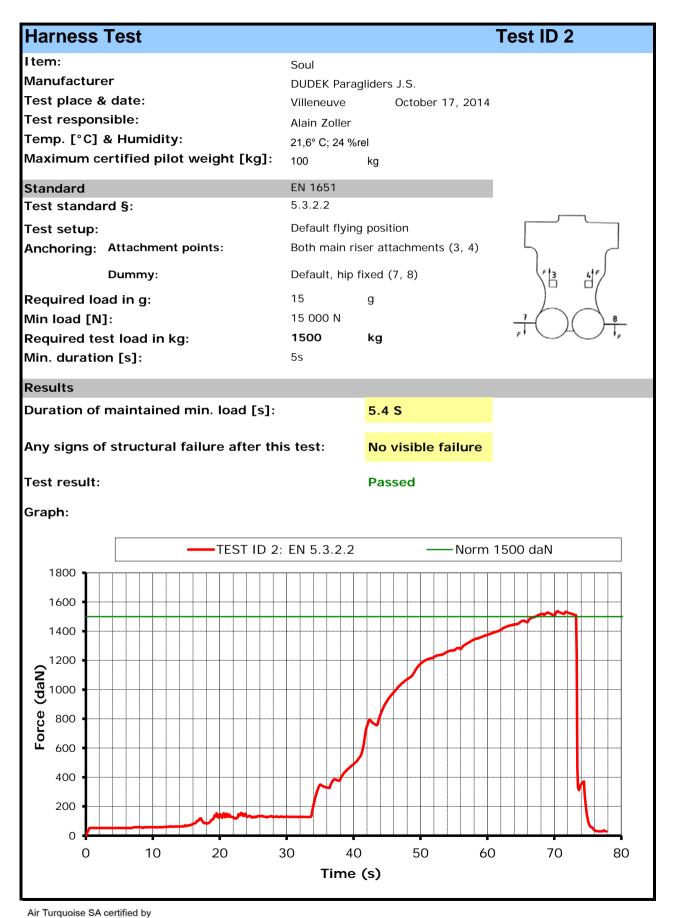
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Annex: detailed test reports



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



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

Manufacturer DUDEK Paragilders J.S. Test place & date: Test responsible: Alain Zoller Temp. [*C] & Humidity: 21,6*C; 24 %rel Maximum certified pilot weight [kg]: 100 kg Standard 2. DV LuftGerPV §1, Nr. 7 c Test standard §: 4.2.1.b Test setup: Dummy: Default, hip fixed (7, 8) Required load in g: 6 g Min load [N]: 6000 kg Min duration [s]: 10 s Results Duration of maintained min. load [s]: Test result: Duration of maintained min. load [s]: Test result: Test result: Test result: Comparison of structural failure after this test: Test result: Duration of maintained min. load [s]: Test result: Test rest result: Test result: T	Harness Test			Test ID 3
Anchoring: Attachment points: Dummy: Dummy: Default, hip fixed (7, 8) 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]: 11.3 S Any signs of structural failure after this test: No visible failure Test result: Passed Graph: Test TID 3: LTF 4.2.1.b Norm 600 daN 0 0 0 0 0 0 0 0 0 0 0 0 0	Harness Test Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]: Standard Test standard §: Test setup:	DUDEK Paraglider Villeneuve Alain Zoller 21,6° C; 24 %rel 100 2. DV LuftGerPV § 4.2.1.b Flying position be board (11) in land	October 17, 2014 kg §1, Nr. 7 c fore landing: seat ding position, leg	e A
Duration of maintained min. load [s]: Any signs of structural failure after this test: Test result: Caraph: 11.3 S No visible failure Passed Caraph: Norm 600 daN 000	Dummy: Required load in g: Min load [N]: Required test load in kg:	attached (3 and 4 Default, hip fixed 6 6000 N 600	.); (7, 8) g	
800 700 600 900 400 400 200 100 0	Duration of maintained min. load [s]:	s test:	No visible failure	
	800 700 600 500 400 300 200 100	TF 4.2.1.b	Norm 60	D daN

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Harness Test	Test ID 4
l tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragliders J.S. Villeneuve October 17, 2014 Alain Zoller 21,6° C; 24 %rel 100 kg
Standard	EN 1651
Test standard §:	EN 5.3.2.7
Test setup:	Flying position before landing: seat board (11) in landing position, leg straps (10) closed.
Anchoring: Attachment points: Dummy:	Both of the main riser attachments 3/4 attached (3 and 4); Default, hip fixed (7, 8)
Required load in g:	15 g
Min load [N]:	15 000 N 7/8 11
Required test load in kg:	1500 kg
Min. duration [s]:	5 s
Results	
Duration of maintained min. load [s]:	<mark>5.8 s</mark>
Any signs of structural failure after this	s test: No visible failure
Test result:	Passed
Graph:	
TEST ID 4: EN	N 5.3.2.7 — Norm 1500 daN
1600	
1400	
g 800	
000 Ga	
400	
200	
	30 40 50 60

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Harness Test	Test ID 5
l tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragliders J.S. Villeneuve October 17, 2014 Alain Zoller 21,6° C; 24 %rel 100 kg
Standard Test standard §: Test setup: Anchoring: Attachment points: Dummy:	 2. DV LuftGerPV §1, Nr. 7 c 4.2.1.a rescue Rescue attachments Rescue riser attachments (1,2) Hip fixed (7, 8)
Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results	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:	10.6 S s test: No visible failure Passed
TEST ID 5: LTF 4.2	2.1.a.rescue — Norm 900 daN
	Time (s)

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Harness Test		Test ID 6
ltem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragliders J.S. Villeneuve October 17, 2 Alain Zoller 21,6° C; 24 %rel 100 kg	2014
Standard	EN 1651	
Test standard §:	5.3.2.4	
Гest setup:	Rescue attachments	
	Deceus riser attackments (1.2)	
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 6 8
Required test load in kg:	1500 kg	TAT.
Min. duration [s]:	5 s	
Results		
Duration of maintained min. load [s]:	<mark>5.9 S</mark>	
Any signs of structural failure after th	is test: No visible failure	
Any signs of structural failure after th Fest result:	is test: No visible failure Passed	
Test result:		2
Test result: Graph:	Passed	
Test result: Graph:	Passed	n 1500 daN
Test result: Graph: TEST ID o	Passed	
Test result: Graph: 1800	Passed	
Test result: Graph: 1800 1600 1400 1200	Passed	
Test result: Graph: 1800 1600 1400 1200 1000	Passed	
Test result: Graph:	Passed	
Fest result: Graph:	Passed	
Test result: Sraph:	Passed	
Test result: Graph:	Passed	



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Harness Test			Test ID 7
I tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragli Villeneuve Alain Zoller 21,6° C; 24 %ret 100	October 17, 2014	
Standard	2. DV LuftGerf		F
Test standard §: Test setup: Anchoring: Attachment points:	board (11) in straps (10) clo	before landing: seat anding position, leg	1/2 1
	attached (1 ar	d 2);	
Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]:	6 000 N	ied (7, 8) g kg	
Results			
Duration of maintained min. load [s]: Any signs of structural failure after th Test result: Graph:	is test:	11 S No visible failure Passed	
	15	20 25	rm 600 daN
	Time	(s)	

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Harness Test		Test ID 8
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragliders J.S. Villeneuve October 1 Alain Zoller 21,6° C; 24 %rel 100 kg	7, 2014
Standard	EN 1651	
Test standard §:	5.3.2.3	
Test setup:	Only one riser attached	\wedge
Anchoring: Attachment points:	One main riser attachments (3)	<u> </u>
Anchoring: Attachment points.		$\langle , / $
Dummy:	Hip fixed (7, 8 -> 12)	
Required load in g:	6 g	$\langle \langle \cdot \rangle$
Min load [N]:	6 000 N	12
Required test load in kg:	600 kg	¢ F
Min. duration [s]:	10 s	
Results		
Duration of maintained min. load [s]:	11.9 S	
Any signs of structural failure after th	s test: No visible fai	ilure
Test result:	Passed	
Graph:		
TEST ID 8: EN 5		Norm 600 daN
600 -		man
500 -		
300 .		
g 300		
200		
100		
o		
	30 40 Time (s)	50 60

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Harness Test			Test ID 10
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Para Villeneuve Alain Zoller 21,6° C; 24 % 100	October 17,	2014
Standard	EN 1651		
Test standard §:	5.3.2.6		LE.
Test setup:	Normal flyin	g position in NEGATI	F C
Anchoring: Attachment points:		main riser attachmen wnwards(3 or 4);	its
Dummy:	(9)	hored at the head po	osition 3/4
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	
	10 3		
Results			
Duration of maintained min. load [s]:		10.8 S	
Any signs of structural failure after th	is test:	No visible failu	ire
Test result:		Passed	
Graph:			
TEST ID 10:	EN 5.3.2.6	Nor	m 450 daN
600			
600 - 500 -			
500 · · · · · · · · · · · · · · · · · ·			
500 • • • • • • • • • • • • • • • • • •			
500 • • • • • • • • • • • • • • • • • •			
500 • • • • • • • • • • • • • • • • • •			
500 • • • • • • • • • • • • • • • • • •			
500 • 000 400 • 000 300 • 000 200 • 000			
500 • 000 •			
500 400 300 200 100			
500 • 000 400 • 000 300 • 000 200 • 000	30 4 Time	0 50	60 70 80



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Harness Test	Test ID 11	
I tem:		
Manufacturer	Soul	
Test place & date:	DUDEK Paragliders J.S.	
Test responsible:	Villeneuve October 17, 2014	
Temp. [°C] & Humidity:	Alain Zoller	
Maximum certified pilot weight [kg]:	21,6° C; 24 %rel	
Maximum certined phot 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	
Dummy:	attached downwards (3 and 4); Dummy anchored at the head position	\int
		/
Required load in g:	6 g	(
Min load [N]:	6 000 N	Ĺ
Required test load in kg:	600 kg)
Min. duration [s]:	10 s	
Results		
Duration of maintained min. load [s]:	10.7 S	
Any signs of structural failure after thi		
Test result:	Passed	
Graph:		
TEST ID 11: L	FF 4.2.1.c — Norm 600 daN	
	IF 4.2.1.c — Norm 600 daN	
	FF 4.2.1.c —— Norm 600 daN	
700	TF 4.2.1.c —— Norm 600 daN	
700 • • • • • • • • • • • • • • • • • •	TF 4.2.1.c —— Norm 600 daN	
700 • • • • • • • • • • • • • • • • • •	TF 4.2.1.c —— Norm 600 daN	
700 • • • • • • • • • • • • • • • • • •	TF 4.2.1.c —— Norm 600 daN	
700 600 500 400	TF 4.2.1.c —— Norm 600 daN	
700 600 500 500 400 300 200	TF 4.2.1.c ——Norm 600 daN	
700 600 500 400 300	TF 4.2.1.c —— Norm 600 daN	
700 600 500 400 300 200	TF 4.2.1.c ——Norm 600 daN	

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Harness Test	Test ID 12
l tem: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humidity: Maximum certified pilot weight [kg]:	Soul DUDEK Paragliders J.S. Villeneuve October 17, 2014 Alain Zoller 21,6° C; 24 %rel 100 kg
Standard Test standard §: Test setup: Anchoring: Attachment points:	 2. DV LuftGerPV §1, Nr. 7 c 4.2.1.c rescue Pilot upside down flying position Both of the rescue riser attachments attached downwards (1 and 2);
Dummy: Required load in g: Min load [N]: Required test load in kg: Min. duration [s]: Results	Dummy anchored at the head position (9) 6 g 6 000 N 600 kg 10 s
Duration of maintained min. load [s]: Any signs of structural failure after thi Test result: Graph:	10.4 S is test: No visible failure Passed

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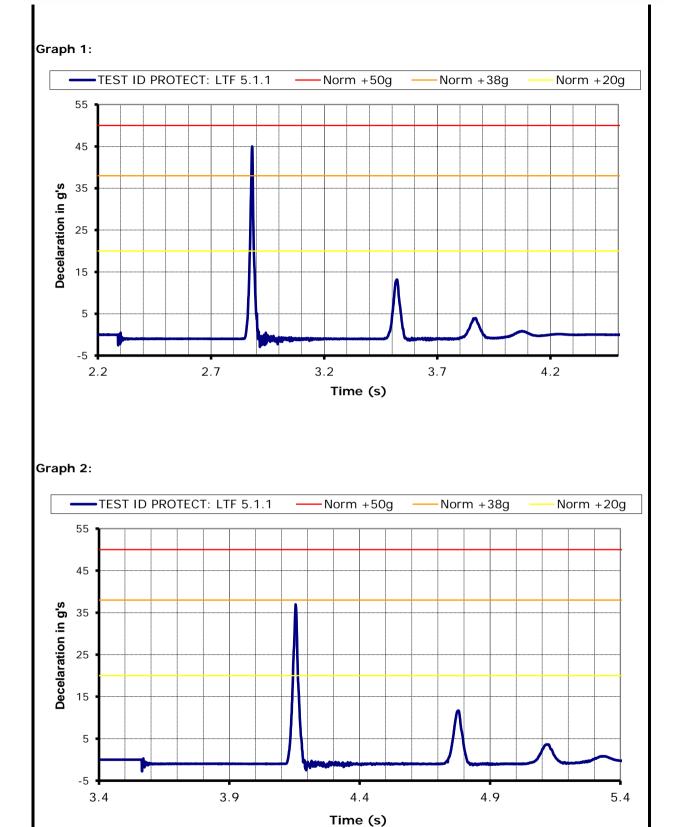
Protector she	ock test	Test ID Protect		
I tem: Manufacturer Test place & date Test responsible: Temp. [°C] & Hu Maximum certifie	:	Soul DUDEK Paragliders J.S. Villeneuve October 17, 2014 Alain Zoller 21,6° C; 24 %rel 100 kg		
Standard		2. DV LuftGerPV §1, Nr. 7 c		
Test standard §:		5.1.1		
Test setup:		 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: Repetitions:	 +50g as absolute maximum; +38g during less than 7 msec; +20g during less than 25 msec. 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 heig	ht of 1 65m [.]	44.98		
Impact duration of + 38 g (if any):		6.56		
Impact duration of + 38 g (if any):		17.22 $\Delta < 20\%$?		
<u>Shock test 2:</u>				
Impact at a height of 1.65m:		36.95		
Impact duration of+ 38 g (if any):		0		
-	of +20 g (if any):	18.48		
Toot Docult		Decced		

Test Result:



Passed

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PD

paragliding by air turguoise

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

	ment resistanc	e test	-	Fest ID resc	
Item: Manufacturer Test place & date: Test responsible: Temp. [°C] & Humic Maximum certified p	-	Soul DUDEK Paragliders Villeneuve Ou Alain Zoller 21,6° C; 24 %rel 100 kg	ctober 17, 2014		
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.			
		seated in the harn deployment resista	ess. In a similar way a ance is approximately ed between the hand o	-	
			inadvertent deployme a shear link has to wi	nt has to be fairly hstand a minimum load.	
h W U	lax force for single and deployment: lin force to prevent nwanted opening:	approx. 70 N approx. 20 N			
Results Measured peak to p	eak required force	5	.1 daN		
for deployment [dal	•				
Comment:		P	assed		
Graph:					
-	ST ID rescue deployr	 nent 1	Max 7 daN –	- Min 2 daN	
TE	ST ID rescue deployi				
TE					
During for the second s					

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Rescue deployment strap stre	ength test Test ID resc strap
Item:	Soul
Manufacturer	DUDEK Paragliders J.S.
Test place & date:	Villeneuve October 17, 2014
Test responsible:	Alain Zoller
Temp. [°C] & Humidity:	21,6° C; 24 %rel
Maximum certified pilot weight [kg]:	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:	^r 700 N (= 70daN)
Results	
Duration of maintained load [s]:	< 10 sec
Breaking resistance [daN]:	112.2
Comment:	Passed
Graph:	
	strap strenght — Min 70 daN
120	
Lensite strength (da N)	
<u><u></u>²⁰ <u></u></u>	



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