

En application de la directive n°89/686/CEE du 21 décembre 1989 concernant le rapprochement des législations des Etats Membres relatives aux équipements de protection individuelle l'échantillon essayé est déclaré conforme aux exigences essentielles de santé et de sécurité du décret n°2007-1133 du 24 juillet 2007 portant transposition de cette directive en droit français,

*In application of the directive n°89/686/EEC dated 21/12/89 on the approximation of the laws of the Member States relating to personal protective equipment and the decree n°2007-1133 of July 24<sup>th</sup> 2007 transposing this Directive into French law,*

Le C.R.I.T.T. SPORT-LOISIRS, habilité par le ministère de l'économie, de l'industrie et de l'emploi, pour effectuer l'examen CE de type prévu par l'article R.322-35 du code du sport et identifié sous le numéro 0501 (publié au JORF du 23/06/2015) attribue  
*The C.R.I.T.T. SPORT-LOISIRS, authorized by order of the Ministry in charge of economy, industry and labour, for the EC type examination with the number 0501 (notified in JORF on June 23, 2015) grants*

## I'ATTESTATION D'EXAMEN CE DE TYPE *the EC type Examination Certificate* N° 0501/2580/162/12/16/1889

au modèle d'équipement de protection individuelle suivant :  
*to the following designated personal protective equipment:*

- Protection pour Sellette de parapente *Protection for Paraglider harness*.....(dénomination)(*product*)
- BUMPAIR 15 back D2.....(marque commerciale)(*trademark*)
- Unique *one size*.....(taille)(*size*)
- SUPAIR, 34 rue Adrastée 74650 CHAVANOD- FRANCE..(fabricant et demandeur)(*manufacturer and applicant*)
- Protocole *Protocol* CRITT SL SP-001 02/2016.....(référentiel technique)(*standard*)

**Le modèle BUMPAIR 15 BACK 2 est associé aux sellettes de référence : DELIGHT 2**  
*The model BUMPAIR 15 BACK 2 is associated with the reference Paragliders harness : DELIGHT 2*



12-16-1889  
16-2832  
BUMPAIR 15 Back D2

Fait à Châtelleraut, le 24/07/2017  
*Châtelleraut, the 07/24/2017*

**Franck LEPLANQUAIS**  
Directeur (*Manager*)

Nota : toute modification apportée au matériel neuf objet de la présente attestation d'examen CE de type doit être portée à la connaissance de l'organisme habilité, en application de l'article R 322-35 du Code du sport. *Any modification carried out on the material being the subject of the present EC type Examination Certificate must be brought to the authorised body in application of Article R 322-35 of the sport Code.*

Cette attestation comporte 1 page. *This is a one page document.*

**CRITT Sport Loisirs de Poitou-Charentes**

ZA du Sanital - 21 Rue Albert Einstein - 86100 CHATELLERAULT - France

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Courriel : [franck.leplanquais@critt-sl.com](mailto:franck.leplanquais@critt-sl.com) Site Internet : <http://www.critt-sl.com>



**SUPAIR - VLD**  
Laurent Chiabaut  
Parc Altais  
34 rue Adrastée  
74650 Chavanod  
France

## Test CERTIFICATE

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The under mentioned sample of paraglider harness has been tested successfully in accordance with following standards:

- European Standard:
  - o EN 1651 September 1999
  - o EN 12491 March 2001

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Certificate number:..... **PH 106.2014**  
 Manufacturer:..... **SUPAIR - VLD**  
 Model..... **Delight 2**  
 Size:..... **Medium**  
 Maximum certified pilot weight in flight:..... **120 kg**  
 Weight of the harness:..... **2.5 kg**

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Best Regards,

Villeneuve, November 28, 2014

Alain Zoller



**SUPAIR - VLD**  
Laurent Chiabaut  
Parc Altais  
34 rue Adrastée  
74650 Chavanod  
France

## Test ZERTIFIKAT

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Das nachfolgende Baumuster eines Gleitschirm-Gurtzeuges wurde erfolgreich auf seine Erfüllung des folgenden Standards getestet:

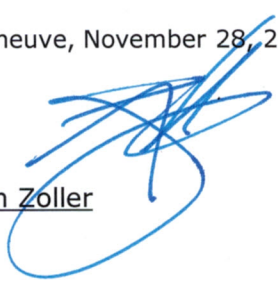
- 2. DV LuftGerPV §1, Nr. 7 c

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Nummer Zertifikat:..... **GZ 106.2014**  
Hersteller:..... **SUPAIR - VLD**  
Modell:..... **Delight 2**  
Größe:..... **Medium**  
Maximales Startgewicht:..... **120 kg**  
Eigengewicht Gurtzeug:..... **2.5 kg**

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Mit freundlichen Grüßen,  
Villeneuve, November 28, 2014

  
Alain Zoller





## 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.

para-test.com



paragliding by air turquoise

## 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

<b>Manufacturer:</b>	SUPAIR - VLD
<b>Harness model:</b>	Delight 2
<b>Size:</b>	Medium
<b>Harness Weight:</b>	2.5 kg
<b>Maximum certified pilot</b>	120 kg
<b>Impact protection type:</b>	Foam 15 cm
<b>Harness type:</b>	ABS
<b>Test responsible:</b>	Alain Zoller
<b>Test place:</b>	Villeneuve
<b>Test date:</b>	November 28, 2014
<b>Test room temp &amp; humidity:</b>	221.8° C; 46 %rel
<b>Certification number EN:</b>	PH 106.2014
<b>Certification number LTF:</b>	GZ 106.2014

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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



## Test summary

### A. STRUCTURAL STRENGTH 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.

Test ID	TESTED ?	Standard Ref.		TEST setup	Anchoring		Forces		Min. Test duration [sec]	Result
		EN	LTF		Attach - ment points	Dummy	Req. Load in g	Min. force [N]		
1	✓	5.3.2.1	4.2.1.a	Default flying position	2 main attachment points	Hip fixated	6g	6000	10	OK
2	✓	5.3.2.2					9g	9000	5	OK
3	✓	5.3.2.7	4.2.1.b	Default, landing position	2 main att. points	Hip fixated, landing conf.	6g	6000	10	OK
4	✓						15g	15000	5	OK
5	✓	5.3.2.4	4.2.1.a rescue	Rescue	2 rescue att. Pnts.	Hip fixated	9g	9000	10	OK
6	✓						15g	15000	5	OK
7	✓	5.3.2.3	4.2.1.b rescue	Rescue, landing	ONE main att.	1 central hip fixation	6g	6000	10	OK
8	✓						3g	3000	10	OK
9	✓	5.3.2.5	4.2.1.d	Towing	2 main att. + 2 tow att.	None	5g	5000	10	n/a
10	✓	5.3.2.6	4.2.1.c	Default, Negatif	One main att.	Head fix.	4.5g	4500	10	OK
11	✓	Upside down					2 main att. downw.	6g	6000	10
12	✓	5.3.2.6	4.2.1.c rescue	Upside down rescue	2 rescue att. downw.	Head fix.	6g	6000	10	OK

### 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.



Test ID	TESTED ?	Standar	TEST setup	Anchoring		Impact			Result	
		Ref.:		Attach-	Dummy	Max. tolerated	Max Peak impact	Impact duration of		Impact duration of
		LTF		ment		peak	measured	+ 38 g (if any)	+ 20 g (if any)	
				points		in g		recorded:	recorded:	
PRO TECT 1	✓	5.1.1	Default flying position	Test dummy is attached to the harness like a pilot in flight.		+50g	44.07	6.71	18.47	OK

### 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.

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

### D. RESCUE DEPLOYMENT STRAP STRENGTH 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 ?	Standard Ref.		TEST setup	Minimum	Min.	Breaking	Result
		LTF	EN					
			12491			durati	measured	
						on		
						[s]		
Resc strap	✓	6.1.8	5.3.2	Connection strap in tensile testing machine	700N	10	n/t	OK



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

**SUPAIR - VLD  
Delight 2  
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, November 28, 2014

Place, Date

  
EN & LTF Testing center  
Alain Zoller  
www.para-test.com  
Test responsible

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Annex: detailed test reports

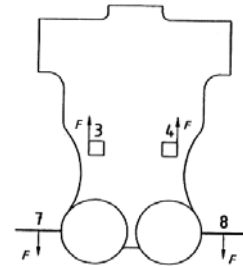
**Harness Test** **Test ID 1**

**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 kg

**Standard:** EN 1651 & 2. DV LuftGerPV §1, Nr. 7 c  
**Test standard §:** 5.3.2.1 (EN) & 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 g :** 9g (EN: 6g)  
**Minimum load [N]:** 9000 N (EN: 6000 N)  
**Required test load in kg:** **1080 kg**  
**Min. duration [s]:** 10 s



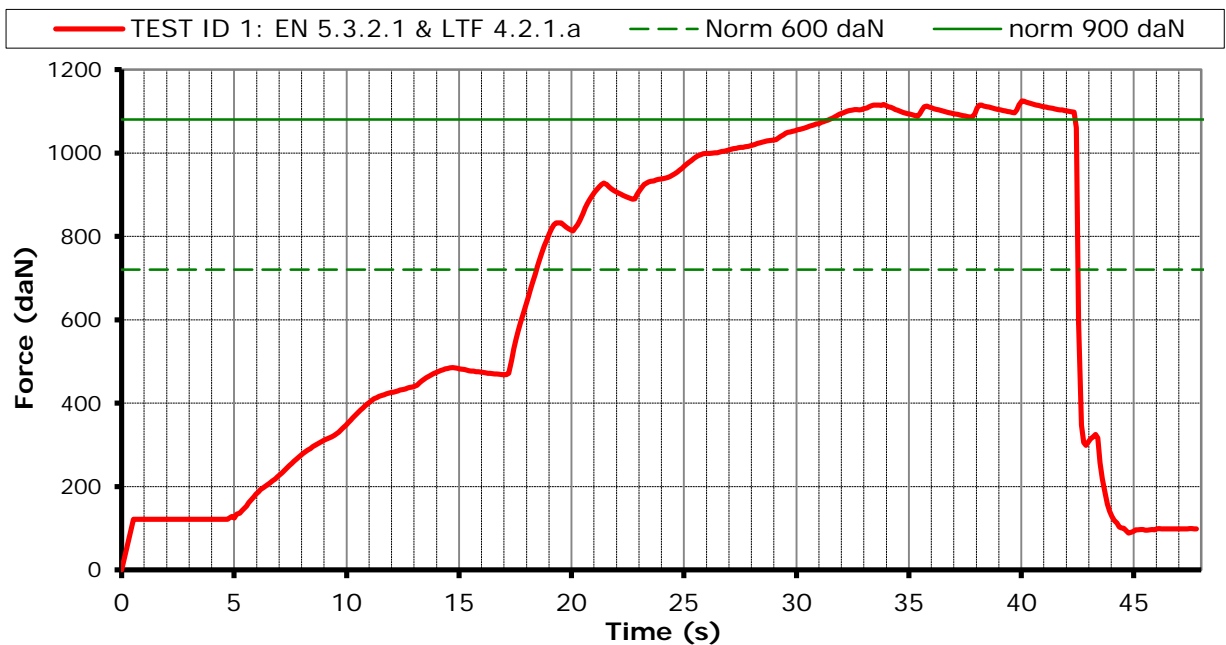
**Results**

**Duration of maintained min. load [s]:** **10.2 s**

**Any signs of structural failure after this test:** **No visible failure**

**Test result:** **Passed**

**Graph:**



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 Rev.0, 25.01.2011  
 No. 71.9.3





**Harness Test** **Test ID 2**

**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 kg

**Standard:** EN 1651

**Test standard §:** 5.3.2.2

**Test setup:** Default flying position

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

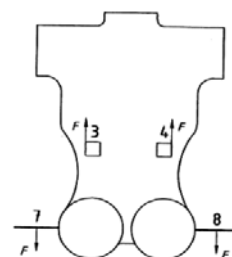
**Dummy:** Default, hip fixed (7, 8)

**Required load in g:** 15 g

**Min load [N]:** 15 000 N

**Required test load in kg:** **1800** kg

**Min. duration [s]:** 5s



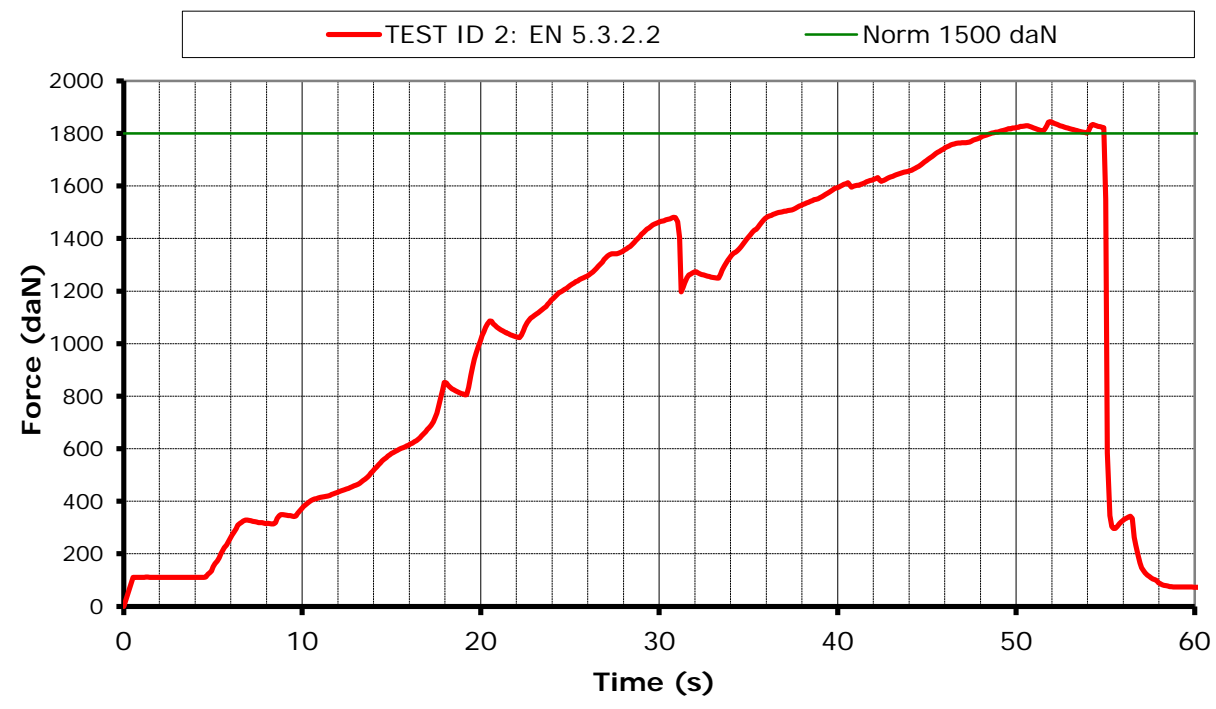
**Results**

**Duration of maintained min. load [s]:** **5.9 s**

**Any signs of structural failure after this test:** **No visible failure**

**Test result:** **Passed**

**Graph:**



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**Harness Test** **Test ID 3**

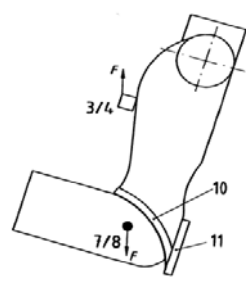
**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 kg

**Standard:** 2. DV LuftGerPV §1, Nr. 7 c

**Test standard §:** 4.2.1.b

**Test setup:** Flying position before landing: seat board (11) in landing position, leg straps (10) closed.

**Anchoring: Attachment points:** Both of the main riser attachments attached (3 and 4);  
**Dummy:** Default, hip fixed (7, 8)



**Required load in g:** 6 g  
**Min load [N]:** 6000 N  
**Required test load in kg:** **720** kg  
**Min. duration [s]:** 10 s

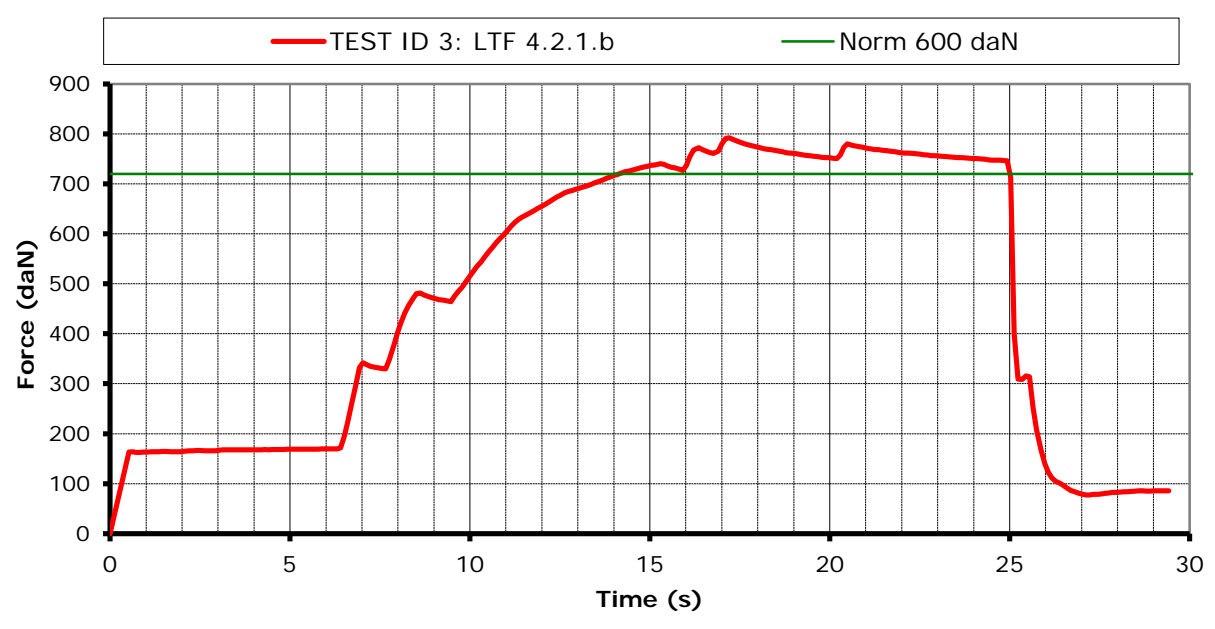
**Results**

**Duration of maintained min. load [s]:** **10.8 s**

**Any signs of structural failure after this test:** **No visible failure**

**Test result:** **Passed**

**Graph:**



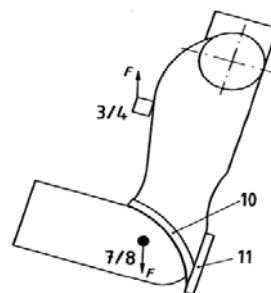


## Harness Test

## Test ID 4

Item:	Delight 2	
Manufacturer	SUPAIR - VLD	
Test place & date:	Villeneuve	November 28, 2014
Test responsible:	Alain Zoller	
Temp. [°C] & Humidity:	221.8° C; 46 %rel	
Maximum certified pilot weight [kg]:	120	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:	Both of the main riser attachments attached (3 and 4);	
Dummy:	Default, hip fixed (7, 8)	
Required load in g:	15	g
Min load [N]:	15 000 N	
Required test load in kg:	<b>1800</b>	<b>kg</b>
Min. duration [s]:	5 s	



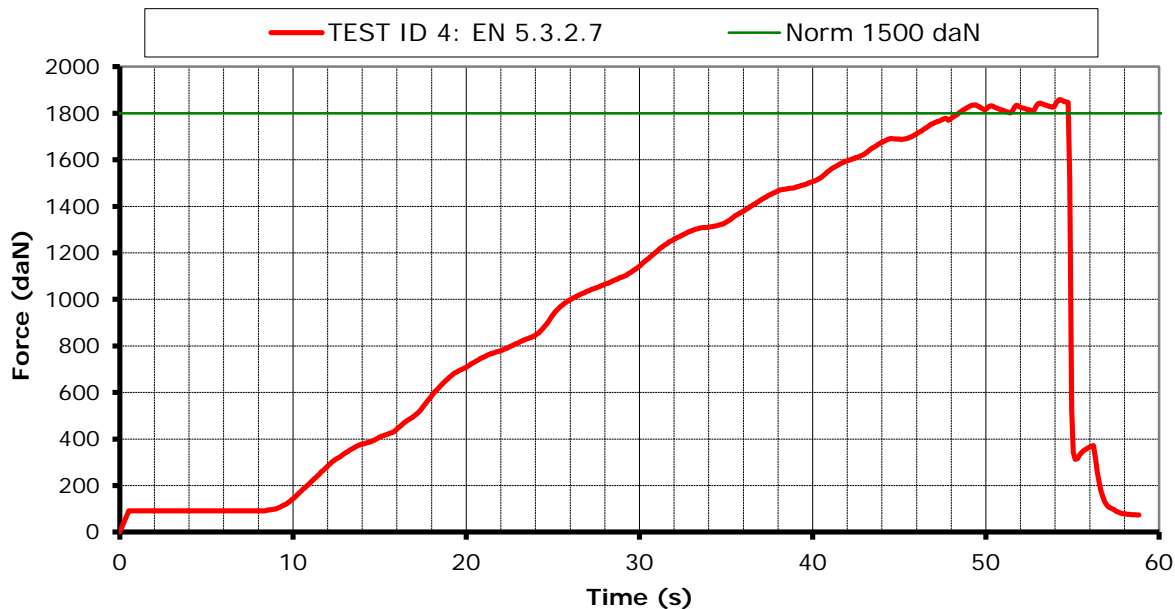
### Results

Duration of maintained min. load [s]: **6.2 s**

Any signs of structural failure after this test: **No visible failure**

Test result: **Passed**

### Graph:



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**Harness Test**

**Test ID 5**

Item: Delight 2  
 Manufacturer: SUPAIR - VLD  
 Test place & date: Villeneuve November 28, 2014  
 Test responsible: Alain Zoller  
 Temp. [°C] & Humidity: 221.8° C; 46 %rel  
 Maximum certified pilot weight [kg]: 120 kg

Standard: 2. DV LuftGerPV §1, Nr. 7 c

Test standard §: 4.2.1.a rescue

Test setup: Rescue attachments

Anchoring: Attachment points: Rescue riser attachments (1,2)

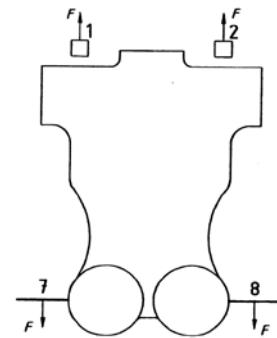
Dummy: Hip fixed (7, 8)

Required load in g: 9 g

Min load [N]: 9 000 N

Required test load in kg: **1080 kg**

Min. duration [s]: 10 s



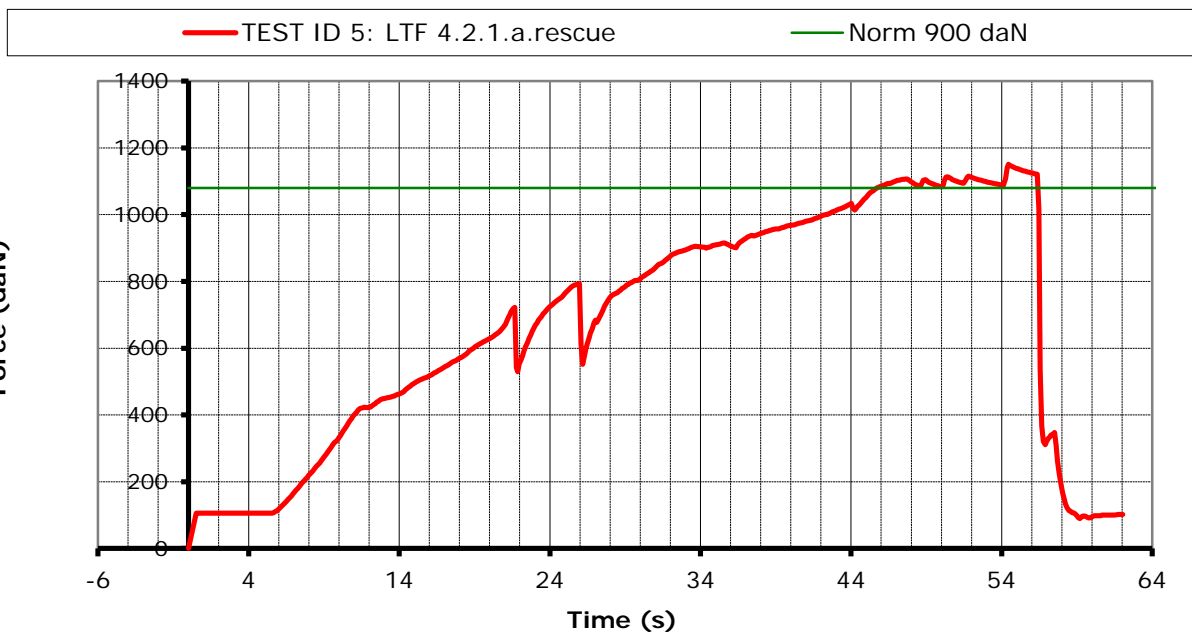
**Results**

Duration of maintained min. load [s]: **11.3 s**

Any signs of structural failure after this test: **No visible failure**

Test result: **Passed**

**Graph:**



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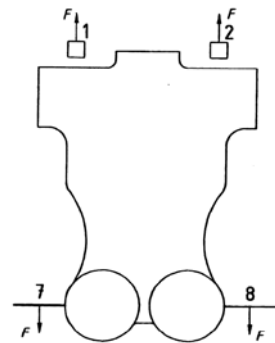


**Harness Test**

**Test ID 6**

Item: Delight 2  
 Manufacturer: SUPAIR - VLD  
 Test place & date: Villeneuve November 28, 2014  
 Test responsible: Alain Zoller  
 Temp. [°C] & Humidity: 221.8° C; 46 %rel  
 Maximum certified pilot weight [kg]: 120 kg

Standard: EN 1651  
 Test standard §: 5.3.2.4  
 Test setup: Rescue attachments  
 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  
 Required test load in kg: **1800** kg  
 Min. duration [s]: 5 s



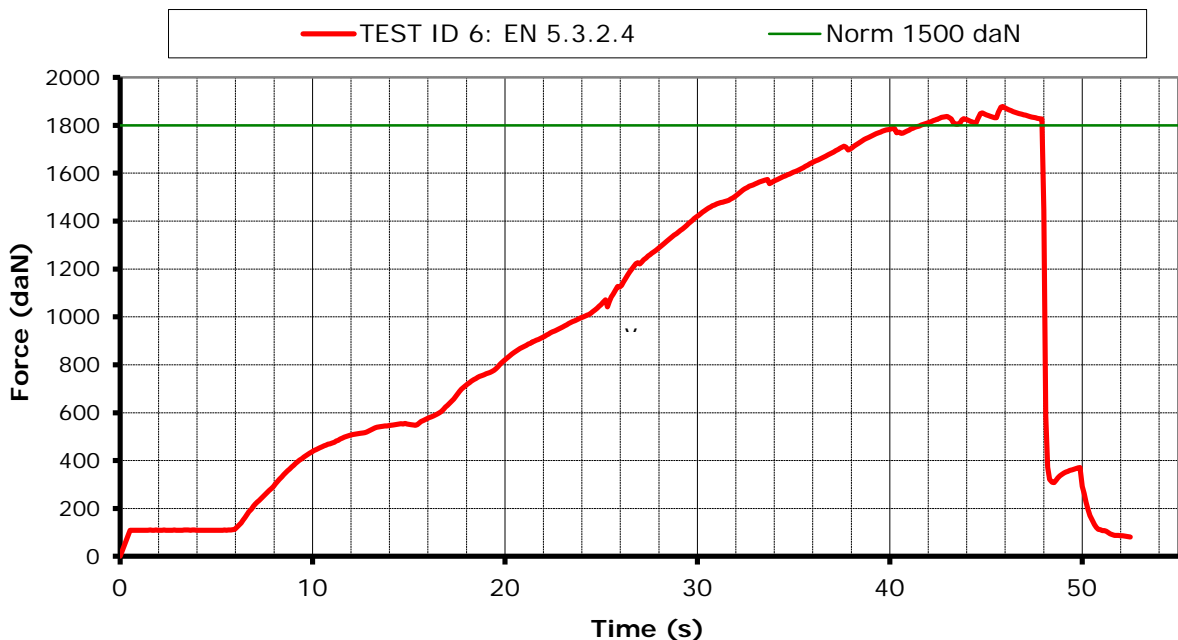
**Results**

Duration of maintained min. load [s]: **5.8 s**

Any signs of structural failure after this test: **No visible failure**

Test result: **Passed**

**Graph:**



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Annex TEST ID 6  
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**Harness Test** **Test ID 7**

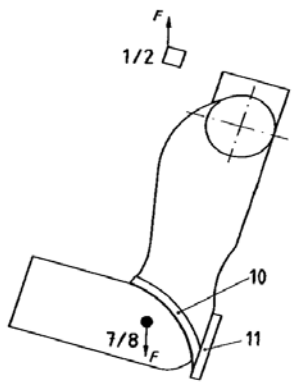
**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 kg

**Standard:** 2. DV LuftGerPV §1, Nr. 7 c  
**Test standard §:** 4.2.1.b rescue

**Test setup:** Flying position before landing: seat board (11) in landing position, leg straps (10) closed.

**Anchoring: Attachment points:** Both of the rescue riser attachments attached (1 and 2);  
**Dummy:** Default, hip fixed (7, 8)

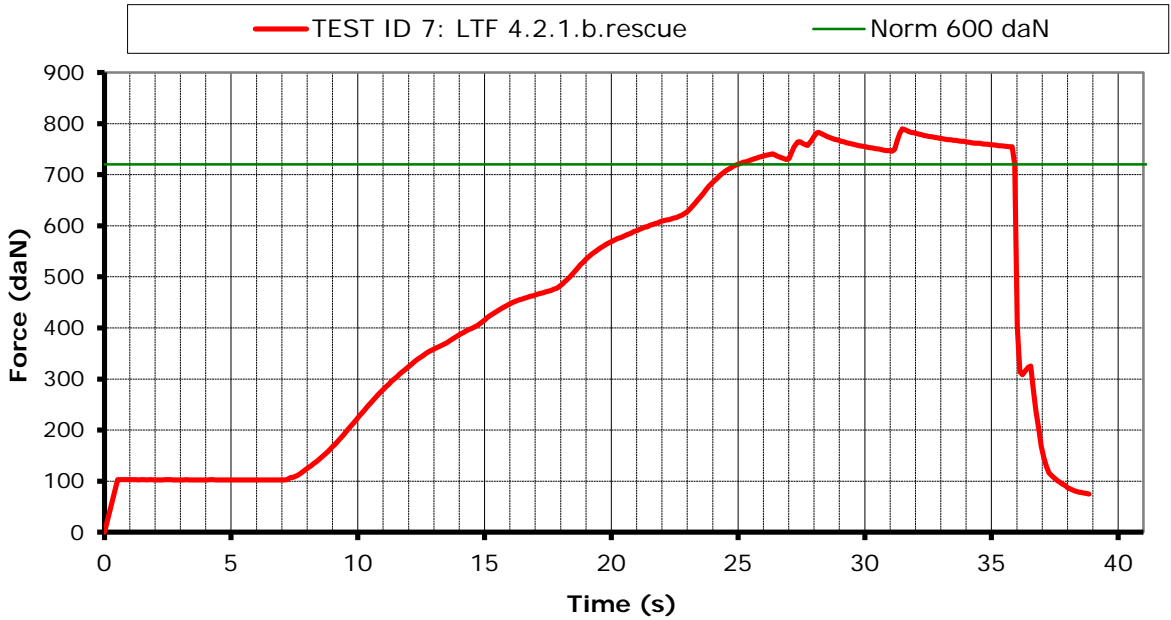
**Required load in g:** 6 g  
**Min load [N]:** 6 000 N  
**Required test load in kg:** 720 kg  
**Min. duration [s]:** 10 s



**Results**

**Duration of maintained min. load [s]:** 10.8 s  
**Any signs of structural failure after this test:** No visible failure  
**Test result:** Passed

**Graph:**

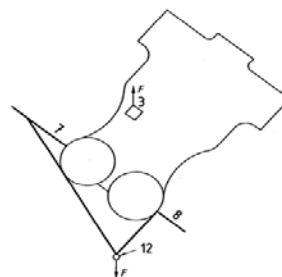




**Harness Test** **Test ID 8**

Item: Delight 2  
 Manufacturer: SUPAIR - VLD  
 Test place & date: Villeneuve November 28, 2014  
 Test responsible: Alain Zoller  
 Temp. [°C] & Humidity: 221.8° C; 46 %rel  
 Maximum certified pilot weight [kg]: 120 kg

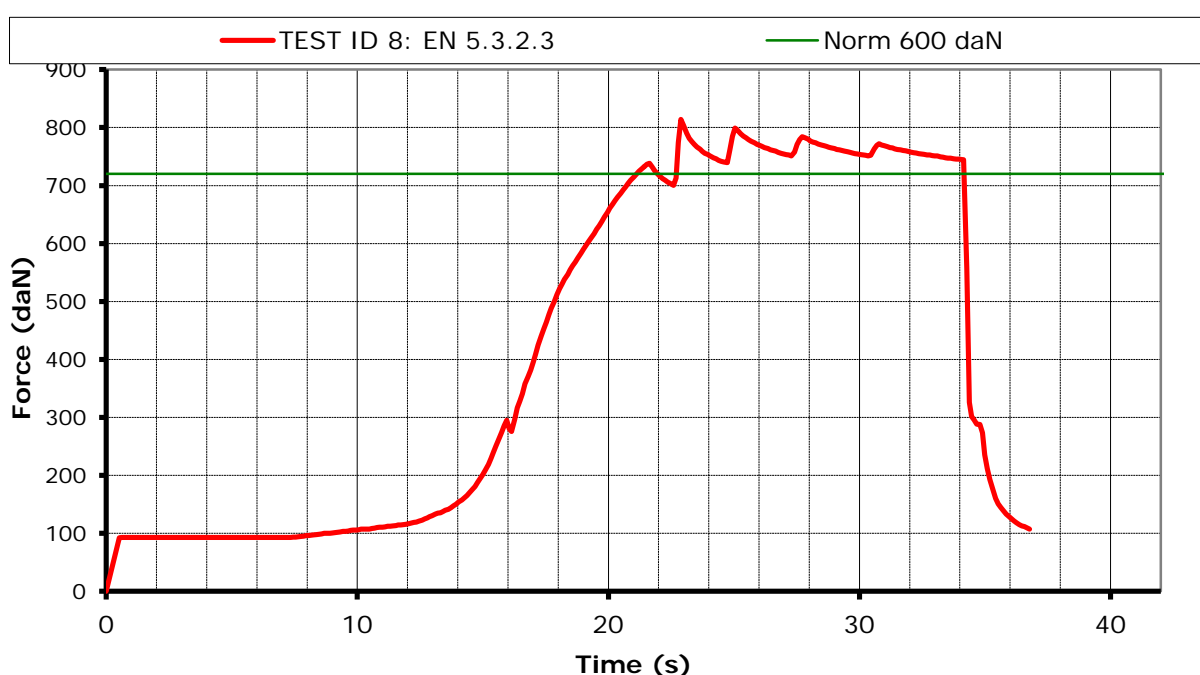
Standard: EN 1651  
 Test standard §: 5.3.2.3  
 Test setup: Only one riser attached  
 Anchoring: Attachment points: One main riser attachments (3)  
 Dummy: Hip fixed (7, 8 -> 12)  
 Required load in g: 6 g  
 Min load [N]: 6 000 N  
 Required test load in kg: **720 kg**  
 Min. duration [s]: 10 s



**Results**

Duration of maintained min. load [s]: **11.8 s**  
 Any signs of structural failure after this test: **No visible failure**  
 Test result: **Passed**

Graph:



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 Tested in accordance with EN 1651:1999 and 2.DV LuftGerPV§1, Nr.7c

Annex TEST ID 8  
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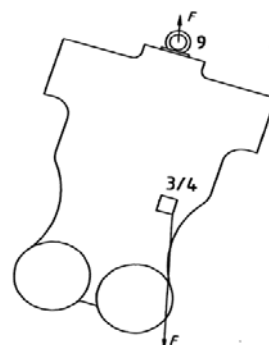


## Harness Test

## Test ID 10

Item:	Delight 2	
Manufacturer	SUPAIR - VLD	
Test place & date:	Villeneuve	November 28, 2014
Test responsible:	Alain Zoller	
Temp. [°C] & Humidity:	221.8° C; 46 %rel	
Maximum certified pilot weight [kg]:	120	kg

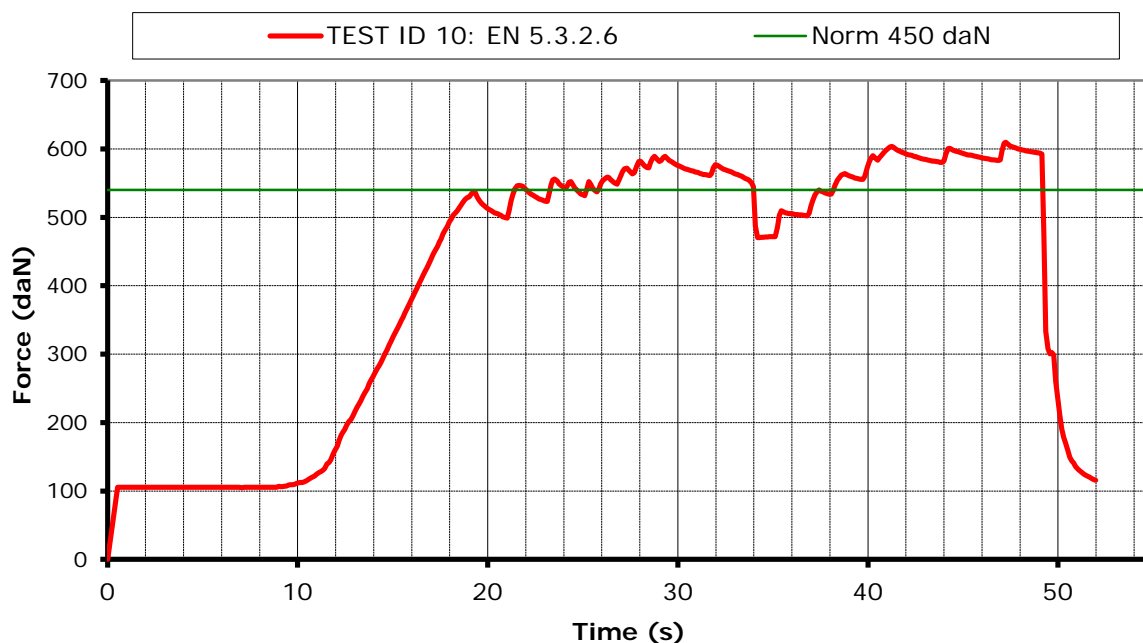
<b>Standard</b>	EN 1651	
<b>Test standard §:</b>	5.3.2.6	
<b>Test setup:</b>	Normal flying position in NEGATIF	
<b>Anchoring: Attachment points:</b>	ONE of the main riser attachments attached downwards(3 or 4);	
<b>Dummy:</b>	Dummy anchored at the head position (9)	
<b>Required load in g:</b>	4.5	g
<b>Min load [N]:</b>	4500 N	
<b>Required test load in kg:</b>	<b>540</b>	<b>kg</b>
<b>Min. duration [s]:</b>	10 s	



### Results

<b>Duration of maintained min. load [s]:</b>	<b>10.9 s</b>
<b>Any signs of structural failure after this test:</b>	<b>No visible failure</b>
<b>Test result:</b>	<b>Passed</b>

### Graph:



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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 10  
Prepared by RE  
Rev.0, 25.01.2011  
No. 71.9.3





## Harness Test

## Test ID 11

Item:	Delight 2	
Manufacturer	SUPAIR - VLD	
Test place & date:	Villeneuve	November 28, 2014
Test responsible:	Alain Zoller	
Temp. [°C] & Humidity:	221.8° C; 46 %rel	
Maximum certified pilot weight [kg]:	120	kg

**Standard** 2. DV LuftGerPV §1, Nr. 7 c

**Test standard §:** 4.2.1.c

**Test setup:** Pilot upside down flying position

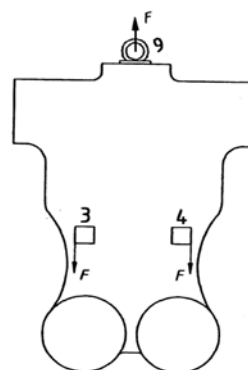
**Anchoring: Attachment points:** Both of the main riser attachments attached downwards (3 and 4);  
**Dummy:** Dummy anchored at the head position (9)

**Required load in g:** 6 g

**Min load [N]:** 6 000 N

**Required test load in kg:** **720** kg

**Min. duration [s]:** 10 s



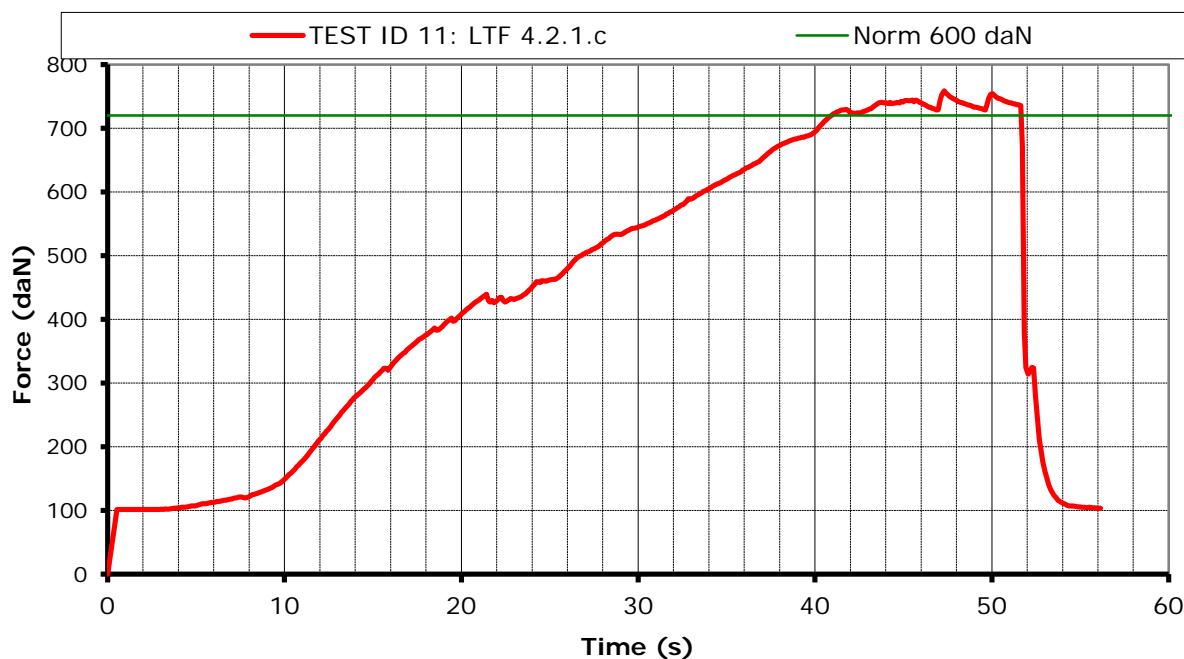
### Results

**Duration of maintained min. load [s]:** **10.9 s**

**Any signs of structural failure after this test:** **No visible failure**

**Test result:** **Passed**

### Graph:



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



**Harness Test**

**Test ID 12**

**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 kg

**Standard** 2. DV LuftGerPV §1, Nr. 7 c

**Test standard §:** 4.2.1.c rescue

**Test setup:** Pilot upside down flying position

**Anchoring: Attachment points:** Both of the rescue riser attachments attached downwards (1 and 2);

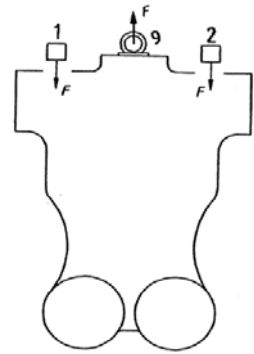
**Dummy:** Dummy anchored at the head position (9)

**Required load in g:** 6 g

**Min load [N]:** 6 000 N

**Required test load in kg:** **720 kg**

**Min. duration [s]:** 10 s



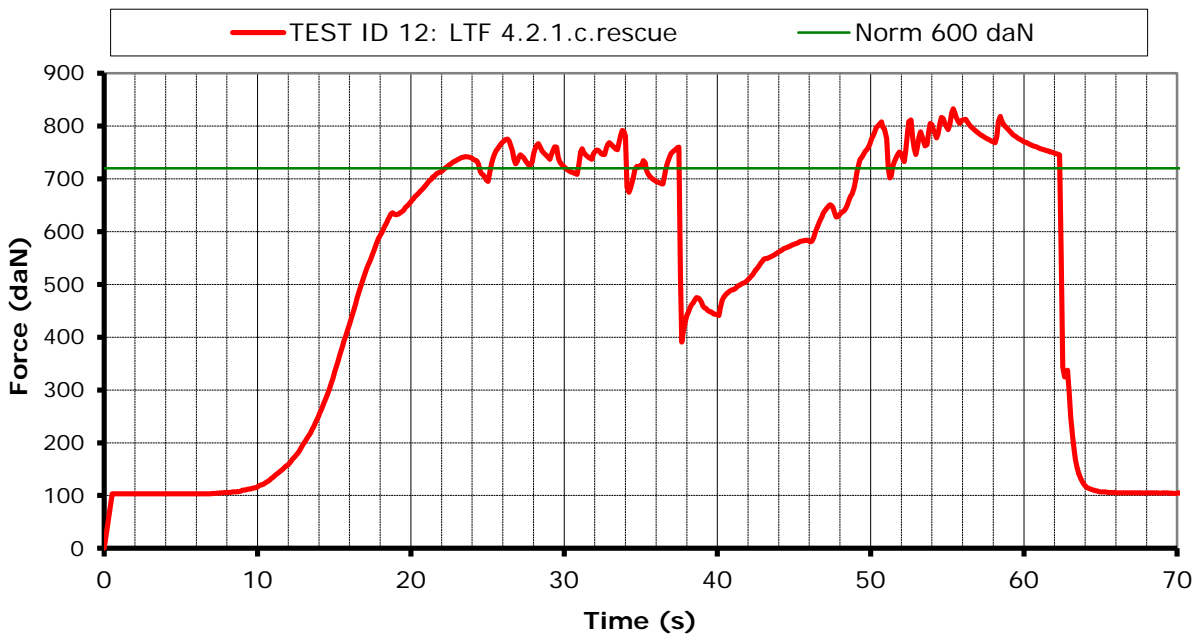
**Results**

**Duration of maintained min. load [s]:** **10.4 s**

**Any signs of structural failure after this test:** **No visible failure**

**Test result:** **Passed**

**Graph:**



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Annex TEST ID 12  
 Prepared by RE  
 Rev.0, 25.01.2011  
 No. 71.9.3



## Protector shock test

## Test ID Protect

Item:	Delight 2
Manufacturer	SUPAIR - VLD
Test place & date:	Villeneuve November 28, 2014
Test responsible:	Alain Zoller
Temp. [°C] & Humidity:	221.8° C; 46 %rel
Maximum certified pilot weight [kg]:	120 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: Minimum 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: 44.07

Impact duration of + 38 g (if any): 6.71

Impact duration of +20 g (if any): 18.47

Shock test 2:

Impact at a height of 1.65m: 46.46

Impact duration of + 38 g (if any): 6.56

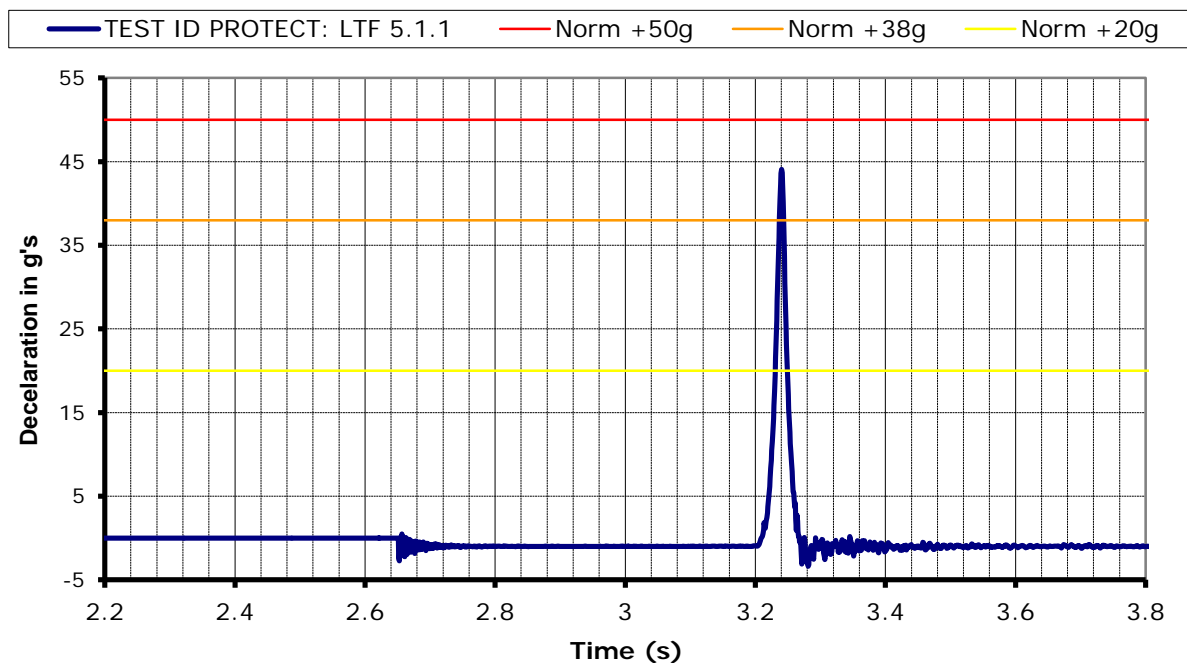
Impact duration of +20 g (if any): 19.16

$\Delta < 20\% ?$

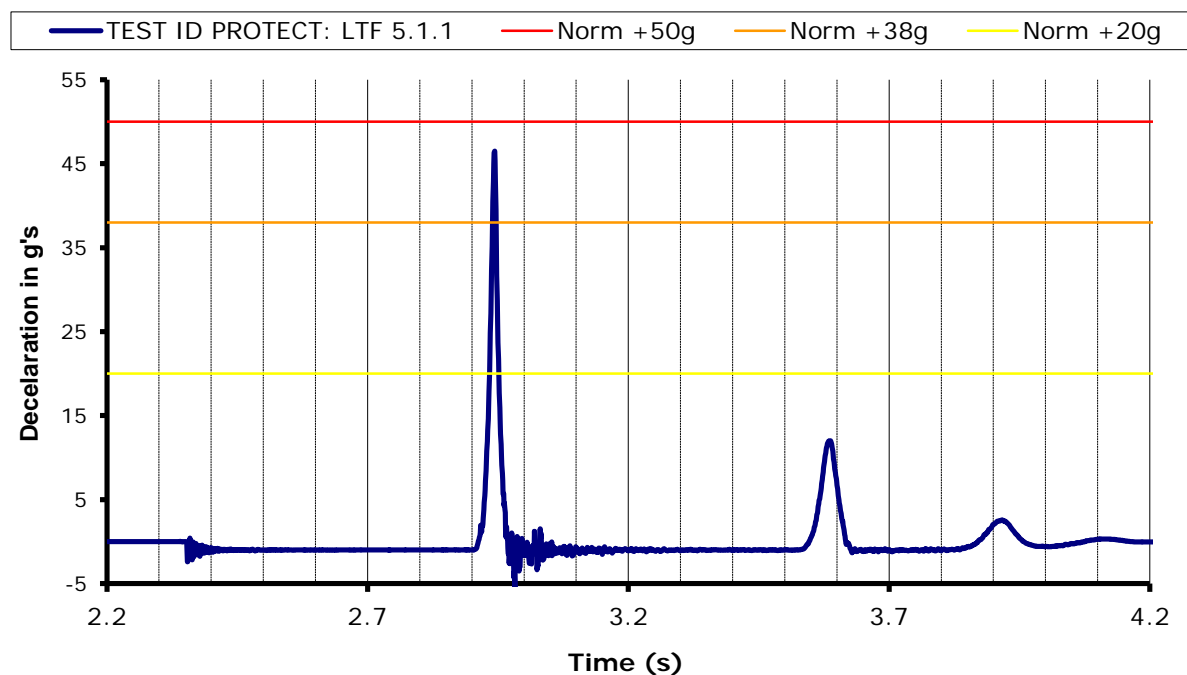
**Test Result:** Passed



Graph 1:



Graph 2:



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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:	Delight 2	
Manufacturer	SUPAIR - VLD	
Test place & date:	Villeneuve	November 28, 2014
Test responsible:	Alain Zoller	
Temp. [°C] & Humidity:	221.8° C; 46 %rel	
Maximum certified pilot weight [kg]:	120	kg
Standard	2. DV LuftGerPV §1, Nr. 7 c	
Test standard §:	6.1.5	
Test setup:	<p>The deployment of the rescue system has to be ensured in all circumstances, especially with a damaged glider.</p> <p>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.</p> <p>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.</p> <p>On the other hand inadvertent deployment has to be fairly remote. Therefore a shear link has to withstand a minimum load.</p>	
Requirements:	<p><b>Max force for single hand deployment:</b></p> <p><b>Min force to prevent unwanted opening:</b></p>	<p>approx. 70 N</p> <p>approx. 20 N</p>
<b>Results</b>		
Measured peak to peak required force for deployment [daN]:	2.8 daN	
Comment:	Passed	
Graph:		

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



## Rescue deployment strap strength test

## Test ID resc strap

**Item:** Delight 2  
**Manufacturer:** SUPAIR - VLD  
**Test place & date:** Villeneuve November 28, 2014  
**Test responsible:** Alain Zoller  
**Temp. [°C] & Humidity:** 221.8° C; 46 %rel  
**Maximum certified pilot weight [kg]:** 120 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]:** 14 s

**Breaking resistance [daN]:** 226.7

**Comment:** Passed

### Graph:

