

# PH PARAGLIDERS HARNESS

## INSPECTION REPORT

Inspection report number: **PH 155.2015**

### MANUFACTURER HARNESS DATA

Manufacturer name: **Neo SAS**

Contact person: **Eric Roussel**

Street: **ZA des Vernays**

Post code / place: **74210 Doussard**

Country: **France**

Name: **String**

Size: **M**

Type: **ABS**

Weight [gr]: **328**

Max load [kg] : **100**

Serial number : **C501S**

Protector type: **n/a**

Volume reserve parachute container [cm3] :

Min: **n/a**

Max: **n/a**

### TEST DATA

#### TEST ATMOSPHERE AGL

Reception date : **23.10.2015**

[C°] **20.1**

Test place and date : **Villeneuve**

RH [%] **47**

Test responsible: **Alain Zoller**

[hPa] **1022.4**

Place of declaration: **Villeneuve**

Date of issue: **13.05.2016**

Director management: **Alain Zoller**

Signature:



Air Turquoise SA, having thoroughly assessed the sample mentioned hereunder, declare it was found conform with all requirements defined by the following norms

European Standard **EN1651** September 1999

European Standard **EN12491** September 2001

Present declaration's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above.

This inspection report contain the following test and is complet with the test report **PH ID 0 to 12, ST and RD**



Inspection report number: PH 155.2015

**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 1651	LTF		Attach -ment points	Dummy	Req. Load in [g] force	Min. force [N]		
R0	✓	5.3.2.1		Default flying position	2 main attachment points	Hip fixated	6	6000	10	POSITIVE
R1	✓		4.2.1.a				9	9000		POSITIVE
R2	✓	5.3.2.2					15	15000	5	POSITIVE
R3	✓		4.2.1.b	Default, landing position	2 main att. points	Hip fixated,	6	6000	10	POSITIVE
R4	✓	5.3.2.7				landing conf.	15	15000	5	POSITIVE
R5			4.2.1.a rescue	Rescue	2 rescue att. Pnts.	Hip fixated	9	9000	10	n/a
R6		5.3.2.4					15	15000	5	n/a
R7			4.2.1.b rescue				Rescue, landing	Hip fixated, landing conf.	6	6000
R8	✓	5.3.2.3		One riser	ONE main att.	1 central hip fixation	6	6000	10	POSITIVE
R9			4.2.1.d	Towing	2 main att. + 2 tow att.	None	3	3000	10	n/a
		5.3.2.5					5	5000		
R10	✓	5.3.2.6		Default, Negatif	One main att.	Head fix.	4.5	4500	10	POSITIVE
R11	✓		4.2.1.c	Upside down	2 main att. downw.	Head fix.	6	6000	10	POSITIVE
R12			4.2.1.c rescue	Upside down rescue	2 rescue att. downw.		6	6000	10	n/a

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### B. 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 ?	Standard Ref.		TEST setup	Anchoring		Force for single hand deployment		Result
		LTF			Attach- ment points	Dummy	Min.	Resistance measured [N]	
							Max. [N]		
RRDT		6.1.5		Default flying position	Test sample is attached to the dummy like a pilot in flight.		20	-17.0	n/a
					(no dummy required)		70		n/a

### C. 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 force [N]	Min.	Breaking resistance measured [N]	Result
		LTF	EN 12491			Test duration		
						[s]		
RRST		6.1.8	5.3.2	Connection strap in tensile testing machine	700	10	n/a	n/a

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**HARNES STRUCTURAL STRENGHT TEST**

TEST REPORT PH ID 0

**PH PARAGLIDERS HARNES**

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

Directives: **EN 1651**

Test standard §: **5.3.2.1 (EN)**

Test setup: **Default flying position**

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

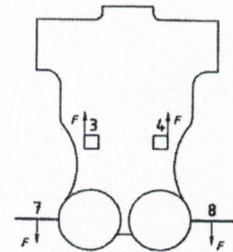
Dummy: **Default, hip fixed (7, 8)**

Required load in force [g] : **6**

Minimum load [N]: **6000**

Required test load in [N]: **612**

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



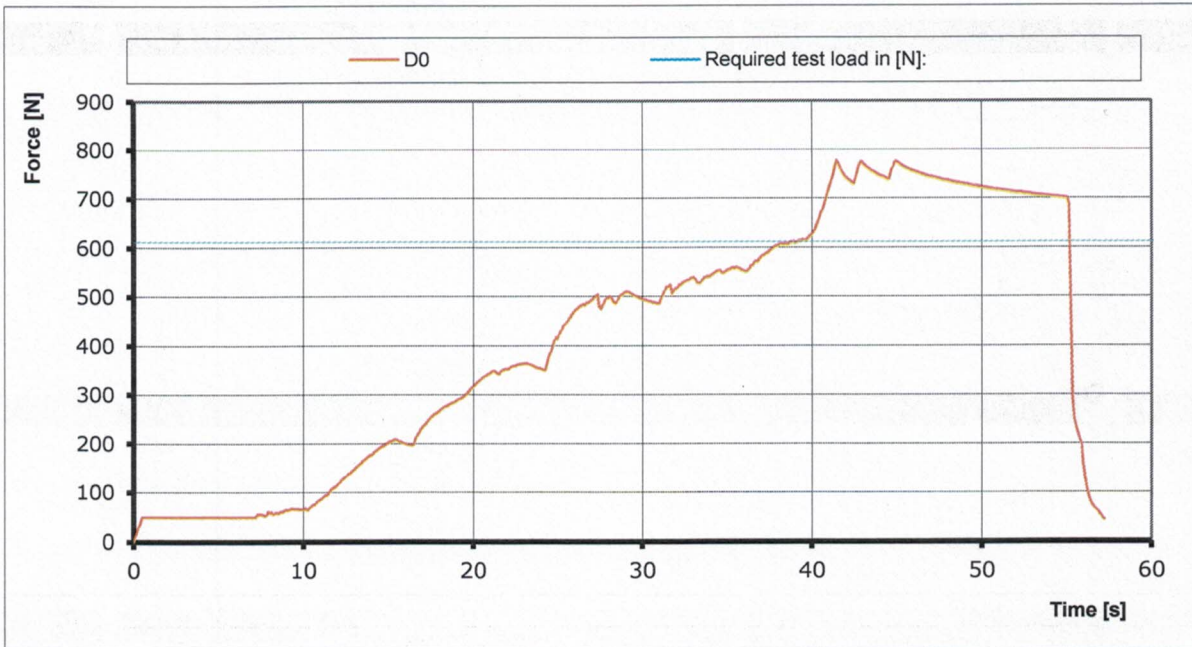
**Results**

Duration of maintained min. load [s]: **14.81**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D0**



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017			
Geos n°11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022



**HARNES STRUCTURAL STRENGHT TEST**

TEST REPORT PH ID 1

**PH PARAGLIDERS HARNES**

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

Directives: **NfL II 91 / 09**

Test standard §: **4.2.1 a (LTF DV)**

Test setup: **Default flying position**

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

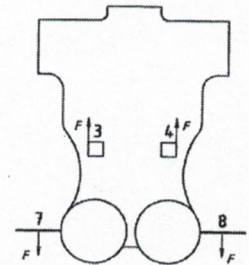
Dummy: **Default, hip fixed (7, 8)**

Required load in force [g] : **9**

Minimum load [N]: **9000**

Required test load in [N]: **917**

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



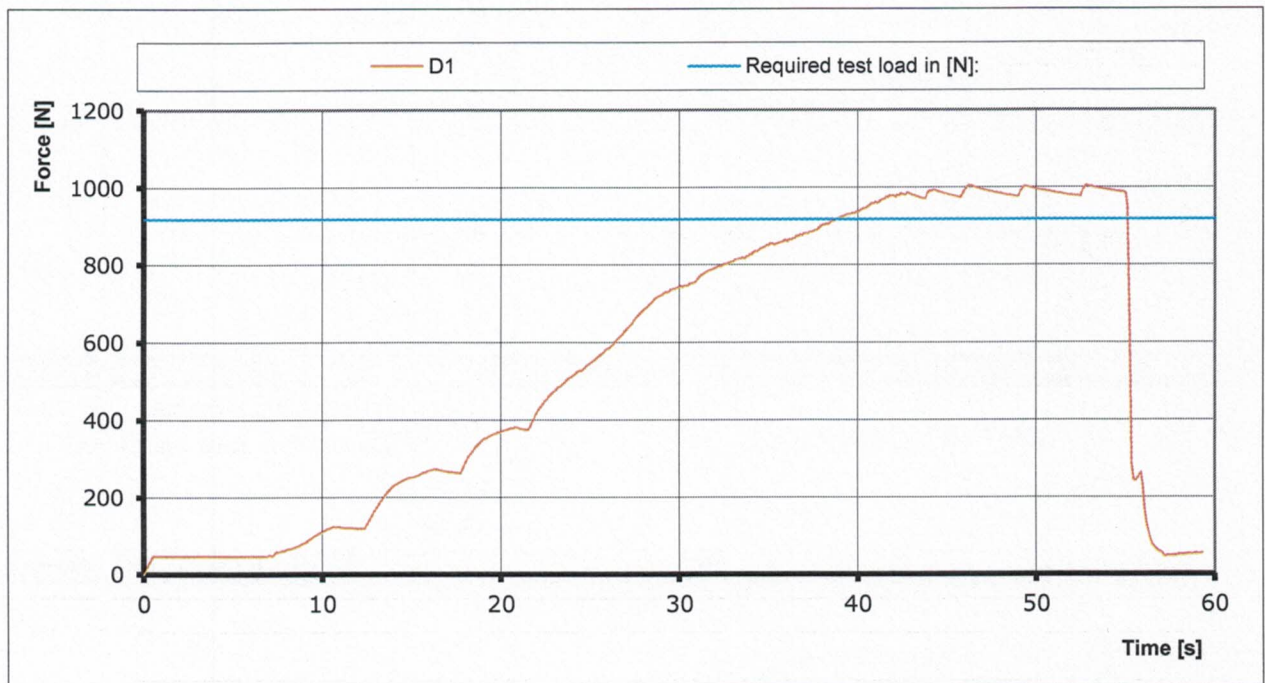
**Results**

Duration of maintained min. load [s]: **14.32**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D1**



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatch	07.04.2017	JDC electronics	Geos n° 11	0022

# HARNES STRUCTURAL STRENGHT TEST

TEST REPORT PH ID 2

## PH PARAGLIDERS HARNES

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

**Directives:** EN 1651

Test standard §: **5.3.2.2**

Test setup: **Default flying position**

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

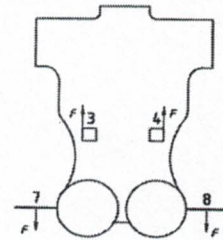
Dummy: **Default, hip fixed (7, 8)**

Required load in force [g] : **15**

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

Required test load in [N]: **1529**

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



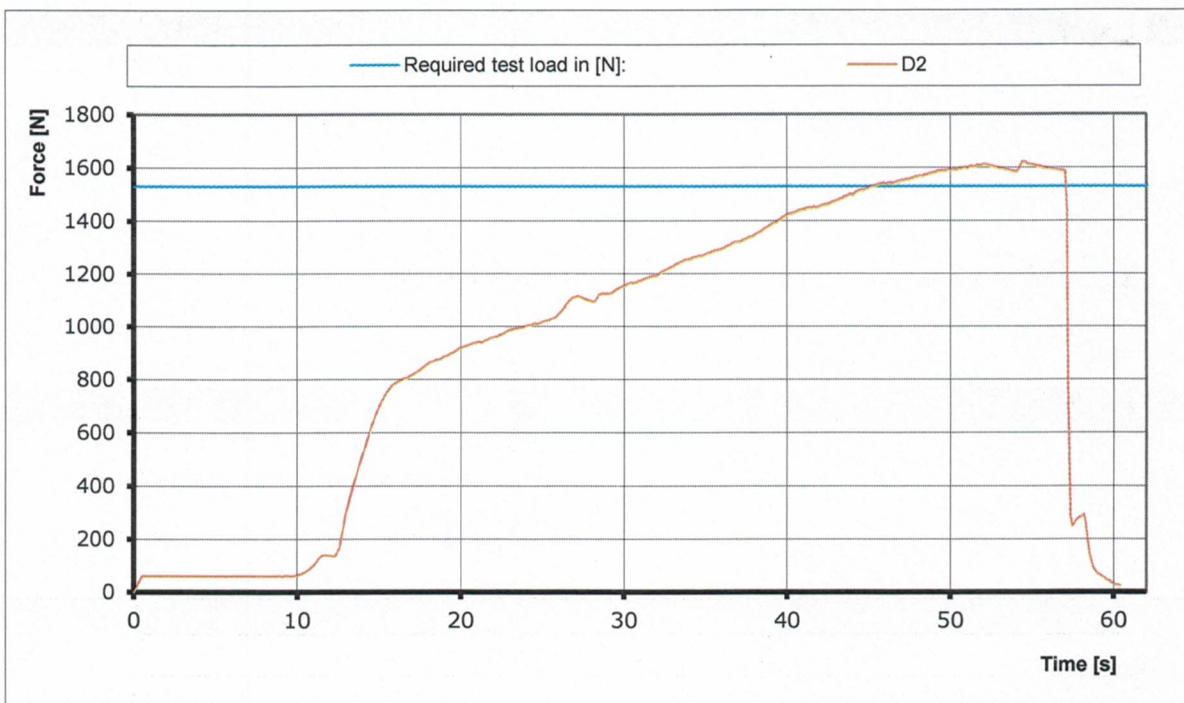
### Results

Duration of maintained min. load [s]: **8.64**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D2**



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatc	07.04.2017	JDC electronics	Geos n° 11	0022



# HARNESS STRUCTURAL STRENGTH TEST

TEST REPORT PH ID 3

## PH PARAGLIDERS HARNESS

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg]: **100**

Serial number: **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

Directives: **NfL II 91 / 09**

Test standard §: **4.2.1.b**

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

Attachment points: **Both of the main riser attachments attached (3 and 4);**

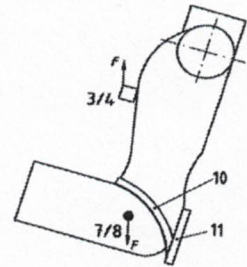
Dummy: **Default, hip fixed (7, 8)**

Required load in force [g]: **6**

Min load [N]: **6000**

Required test load in [N]: **612**

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



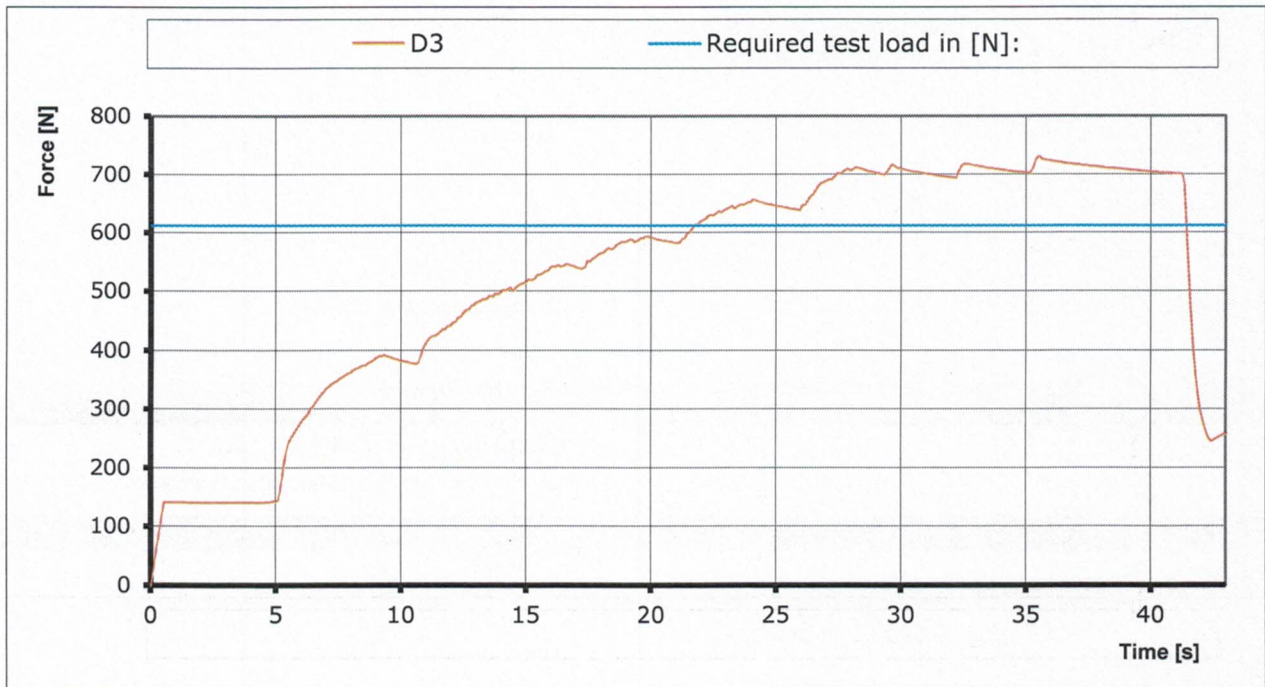
### Results

Duration of maintained min. load [s]: **20.31**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D3**



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywate	07.04.2017	JDC electronics	Geos n° 11	0022

# HARNESS STRUCTURAL STRENGTH TEST

TEST REPORT PH ID 4

## PH PARAGLIDERS HARNESS

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

**Directives:** EN 1651

Test standard §: **EN 5.3.2.7**

**Flying position before landing: seat**

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

**Attachment points: Both of the main riser attachments attached (3 and 4);**

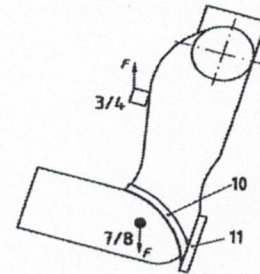
**Dummy: Default, hip fixed (7, 8)**

Required load in force [g] : **15**

Min load [N]: **15000**

Required test load in [N]: **1529**

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



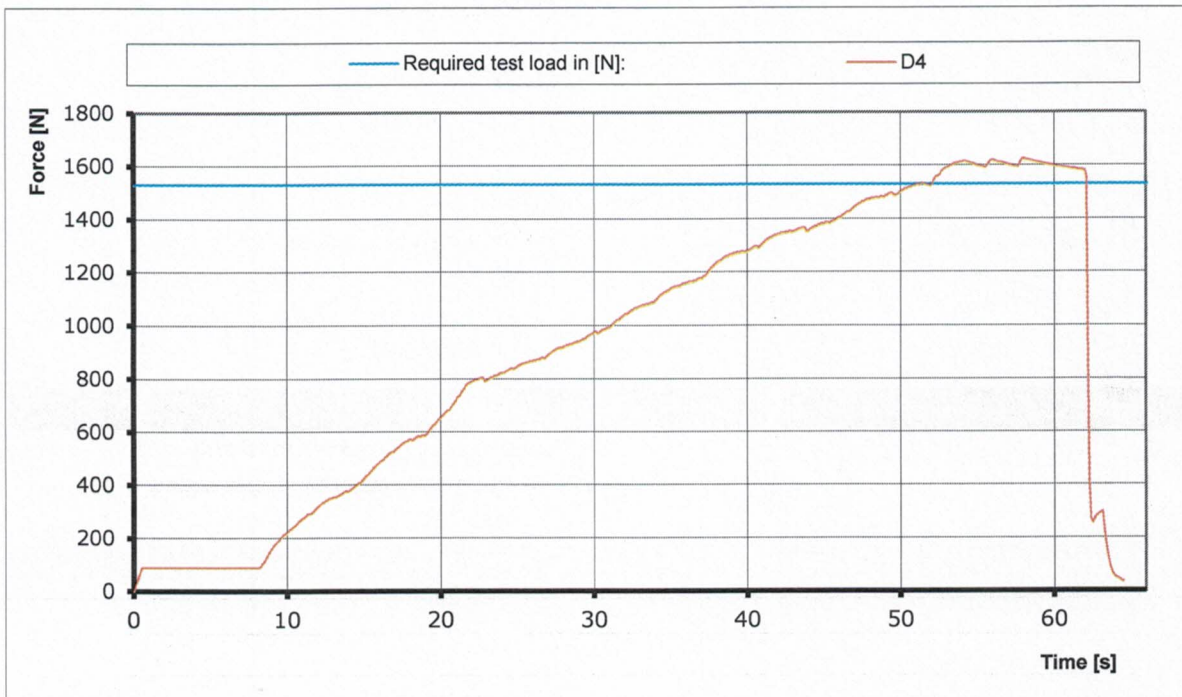
### Results

Duration of maintained min. load [s]: **9.44**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D4**



Load sensor	2017	0	0	0
Geos n°11 Skywatch	42832	JDC electronics	Geos n° 11	0022
0	00.01.1900	0	0	0



**HARNES STRUCTURAL STRENGHT TEST**

TEST REPORT PH ID 8

**PH PARAGLIDERS HARNES**

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

**Directives:** EN 1651

Test standard §: **5.3.2.3**

Test setup: **Only one riser attached**

Attachment points: **One main riser attachments (3)**

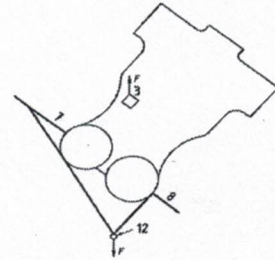
Dummy: **Hip fixed (7, 8 -> 12)**

Required load in force [g] : **6**

Min load [N]: **6000**

Required test load in [N]: **612**

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



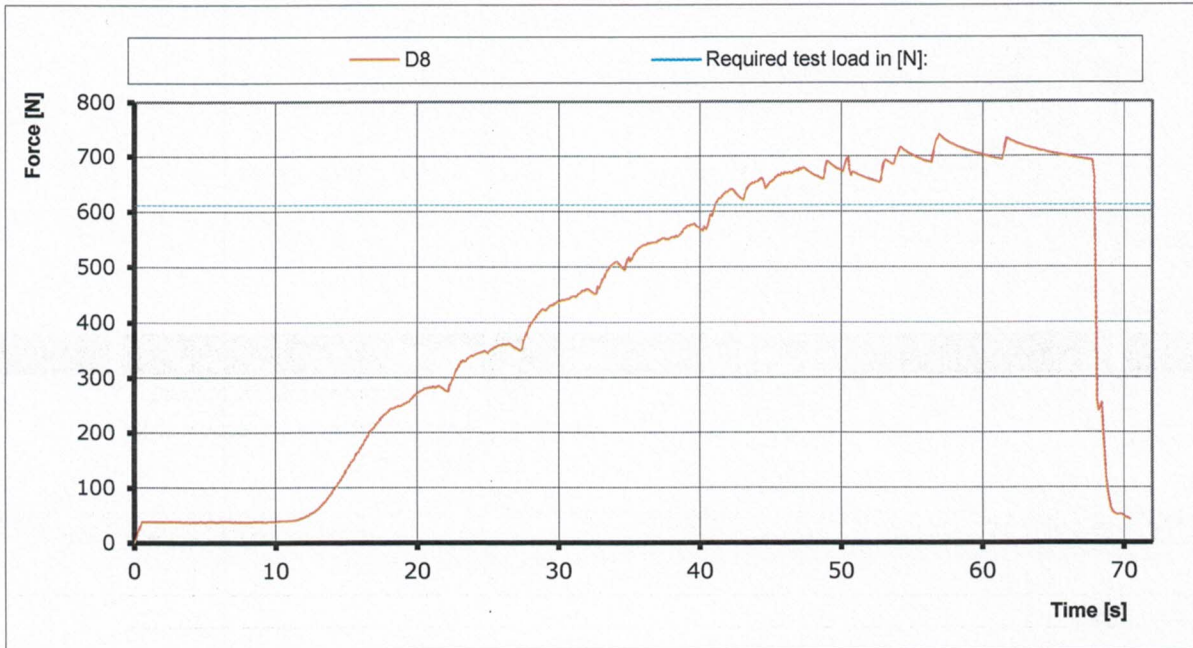
**Results**

Duration of maintained min. load [s]: **14.23**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D8**



Load sensor	2017	0	0	0
Geos n°11 Skywac	42832	JDC electronics	Geos n° 11	0022
0	00.01.1900	0	0	0

## HARNES STRUCTURAL STRENGHT TEST

TEST REPORT PH ID 10

### PH PARAGLIDERS HARNES

Inspection report number: **PH 155.2015**

Manufacturer name: **Neo SAS**

Name: **String**

Max load [kg] : **100**

Serial number : **C501S**

Test place & date: **Villeneuve**

Test responsible: **Alain Zoller**

**Directives:** EN 1651

Test standard §: **5.3.2.6**

Test setup: **Normal flying position in NEGATIF**

Attachment points: **ONE of the main riser attachments attached downwards(3 or 4);**

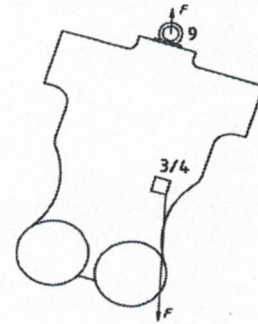
Dummy: **Dummy anchored at the head position (9)**

Required load in force [g] : **4.5**

Min load [N]: **4500**

Required test load in [N]: **459**

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



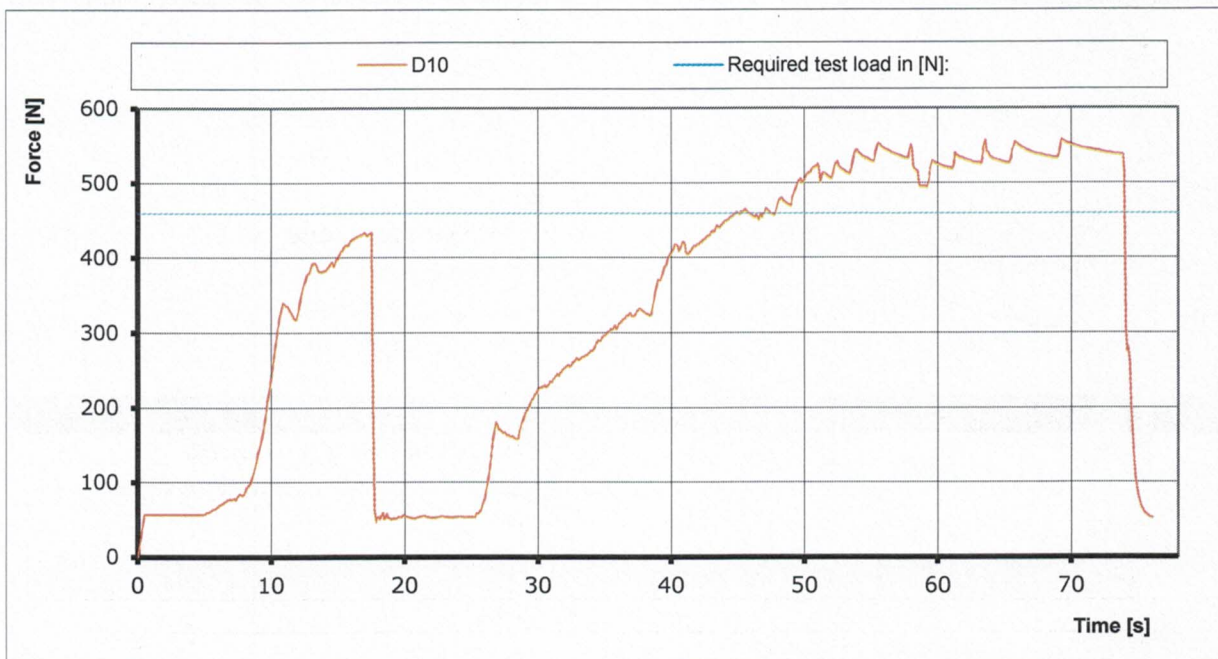
### Results

Duration of maintained min. load [s]: **13.85**

Any signs of structural failure after this test: **no failure**

Test result: **POSITIVE**

Graph: **D10**



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatc	07.04.2017	JDC electronics	Geos n° 11	0022



# HARNES STRUCTURAL STRENGHT TEST

TEST REPORT PH ID 11

## PH PARAGLIDERS HARNES

Inspection report number: PH 155.2015

Manufacturer name: Neo SAS

Name: String

Max load [kg] : 100

Serial number : C501S

Test place & date: Villeneuve

Test responsible: Alain Zoller

Directives: -

Test standard §: -

Test setup: Pilot upside down flying position

Attachment points: Both of the main riser attachments attached downwards (3 and 4);

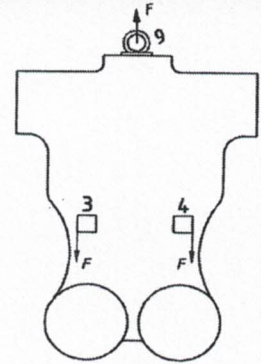
Dummy: Dummy anchored at the head position (9)

Required load in force [g] : 6

Min load [N]: 6000

Required test load in [N]: 612

Min. duration [s]: 10



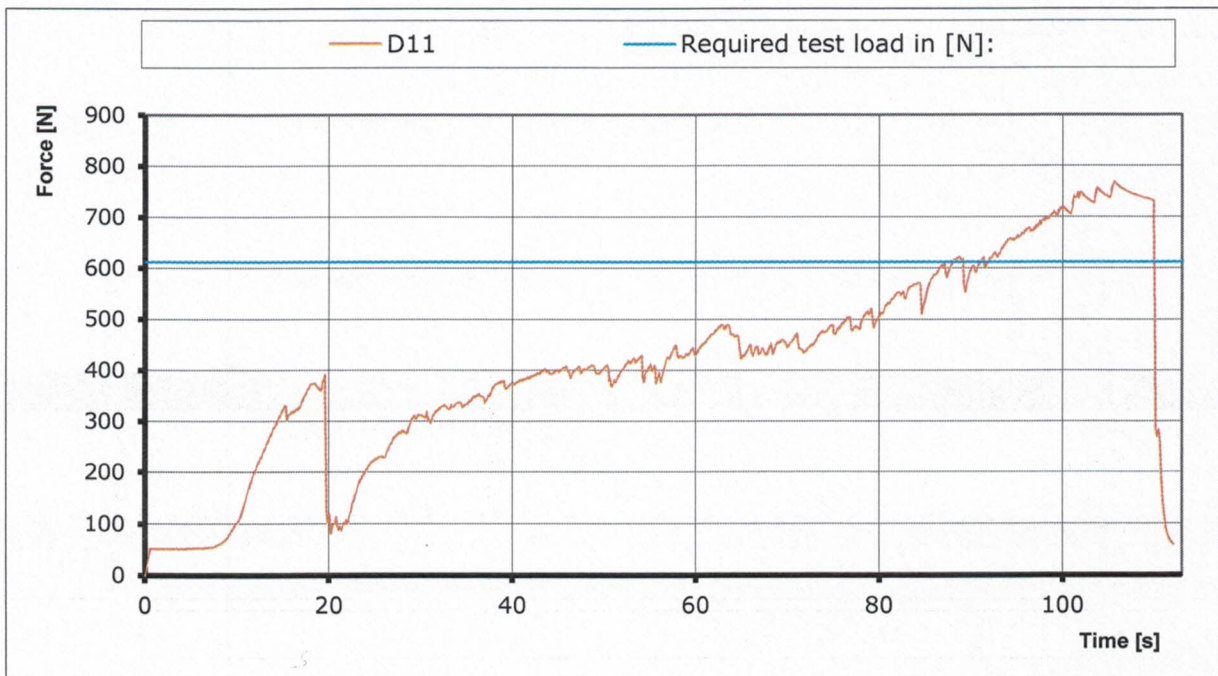
### Results

Duration of maintained min. load [s]: 16.01

Any signs of structural failure after this test: no failure

Test result: POSITIVE

Graph: D11



Instruments	Validity	Manufacturer	Type nr.	S/N
Load sensor	2017	0	0	0
Geos n°11 Skywatc	07.04.2017	JDC electronics	Geos n° 11	0022