

Harness Structural test Report - EN

Inspection certificate number: **PH_334.2021**

Manufacturer data:

Manufacturer name: **Nervures**
 Representative: **Jean-Marie Bernos**
 Street: **ZI Point Sud**
 Post code place: **65260 Soulom**
 Country: **France**

Sample data:

Name: **Airtrek 2**
 Type: **ABS**
 Size: **L**
 Serial number: **ATL-L_VS.1**
 Impact pad type: ⁽¹⁾ **Airbag**
 Clip-in weight [kg]: **120**
 Date of test: **20.04.2021**

Atmosphere AGL:

[C°]	21
RH [%]	33
[hPa]	1005

Summary of Structural test

Test id	- EN 1651	Setup	Req. Load		Min. duration [s]	Result
			[g]	Req. Load [N]		
01 ⁽³⁾	✓ 5.5.1.1	Positive symmetric load (Slippage)	4.5	5400	5	POSITIVE
03 ⁽³⁾	✓ 5.5.1.1b	Positive asymmetric load	15	18000	5	POSITIVE
05	✓ 5.5.1.2	Positive asymmetric load	6	7200	5	POSITIVE
06	✓ 5.5.1.6	Negative symmetric load	6	7200	5	POSITIVE
08 ⁽⁵⁾	5.5.1.9	Anti falling-out system	4.5	5400	5	n/a
09 ⁽³⁾⁽⁴⁾	✓ 5.5.1.3	Positive symmetric load rescue points	15	18000	5	POSITIVE
10 ⁽³⁾⁽⁴⁾	5.5.1.4	Negative symmetric load rescue points	15	18000	5	n/a
11	5.5.1.8	Connecting element for rescue	n/a	24000	0.3	n/a
12 ⁽³⁾	✓ 5.5.1.7	Upright (landing) position load	6	7200	5	POSITIVE
14	5.5.1.5	Negative symmetric load towing points	5	6000	5	n/a

Rescue deployment test

Test id	- NfL II 91/09	Setup	Min load			Result
			[N]	Max. load [N]	Measured [N]	
RRDT	✓ 6.1.5	Default flying position	20	70	54.67	POSITIVE

Rescue Deployment Handle strength test

Test id	- EN 12491	Setup	Req. Load [N]	Min. duration [s]	Breaking strength [N]	Result
RRST	✓ 5.3.2	Two end points of handle	700	10	1261.38	POSITIVE

Manufacture	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-	31314643	04.09.2023
Burster	Sensor Burster	8431-10000	1185483	04.09.2023
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025

Air Turquoise SA, having thoroughly assessed the sample mentioned above, declare it was found conform with
 European Standard EN1651:2018, and **EN12491:2015**

The validation of this test report is given by the signature of the test manager on the Inspection Certificate no 94.20

(1) If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20. ⁽³⁾ Slipping test of any adjustable components: No slippage of any adjustable element more than 10 mm at 4500N for 5 s. The marks should be added with a pre-load of 1000N. ⁽⁴⁾ For harness with integrated Y bridle, test in the end loop ⁽⁵⁾ Attach to anti-falling out system without connecting the crotch straps (breast straps)

Calculated value in tests reports include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

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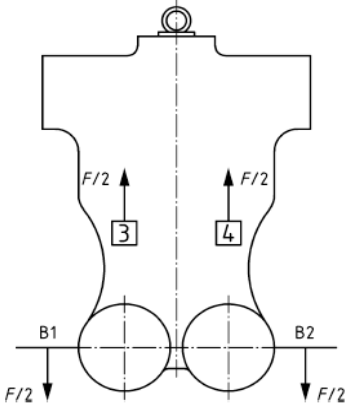
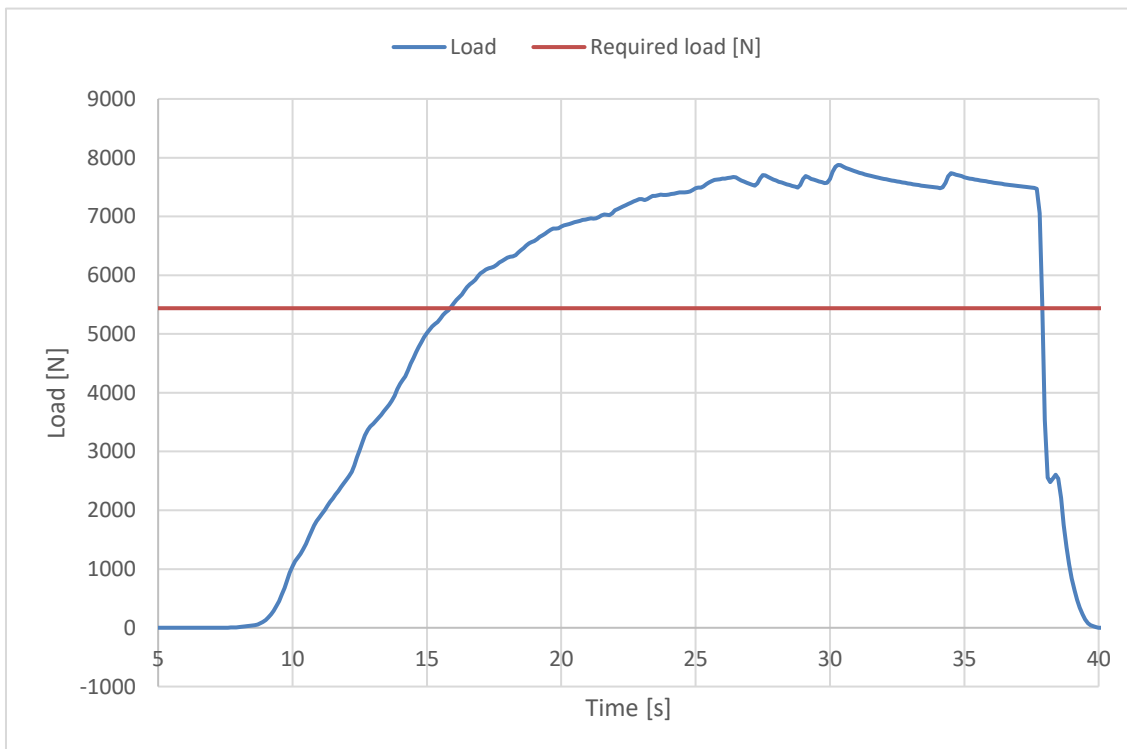
Inspection certificate number: **PH_334.2021**

model: **Airtrek 2**

Harness Structural test

Test ID 01

Standard	EN 1651
Reference in standard	5.5.1.1
Test setup	Positive symmetric load (Slippage)
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (B1, B2)
Required load [g]	4.5
Required load [N]	5400
Minimum test duration [s]	5
Result	
Test duration [s]	22.1
Any signs of structural failure	No
Slippery test OK	Yes
Test results	POSITIVE

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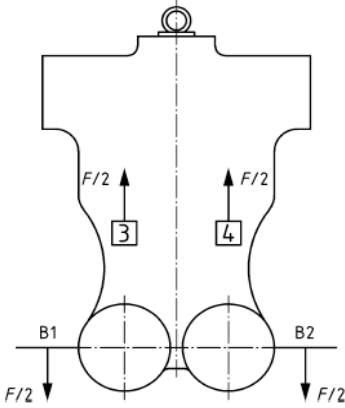
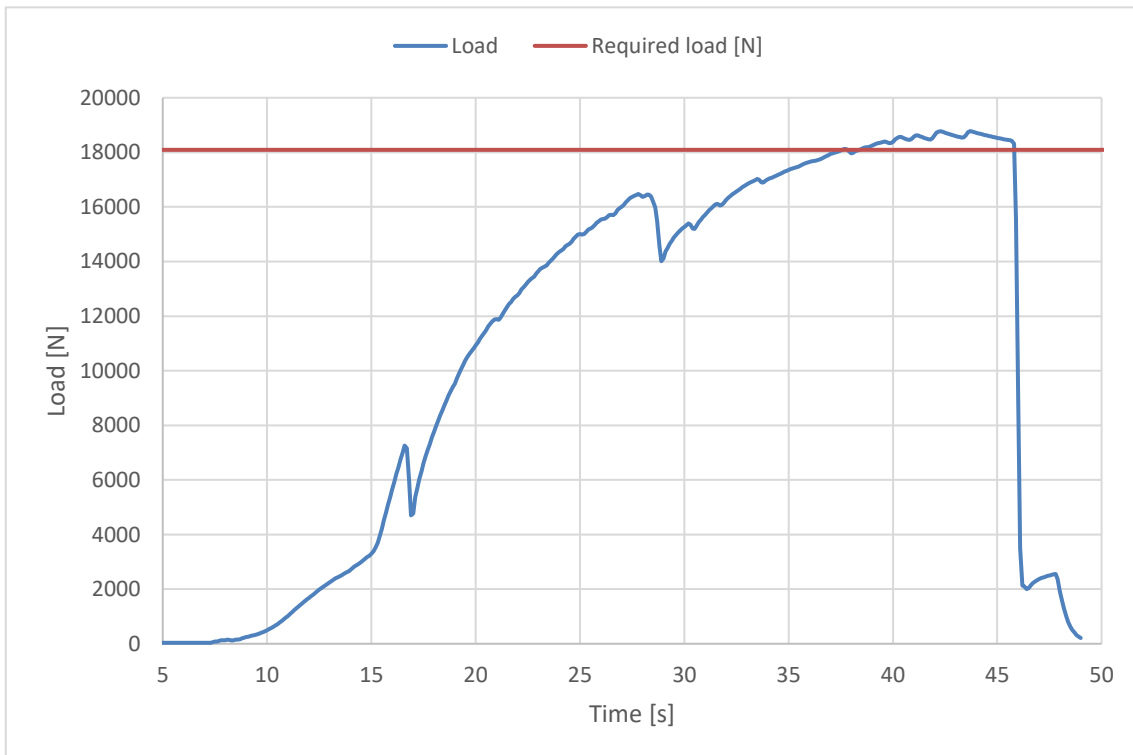
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model: **Airtrek 2**

Harness Structural test

Test ID 03

Standard	EN 1651
Reference in standard	5.5.1.1b
Test setup	Positive symmetric load
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (B1, B2)
Required load [g]	15
Required load [N]	18000
Minimum test duration [s]	5
Result	
Test duration [s]	7.5
Any signs of structural failure	No
Slippery test OK	Yes
Test results	POSITIVE

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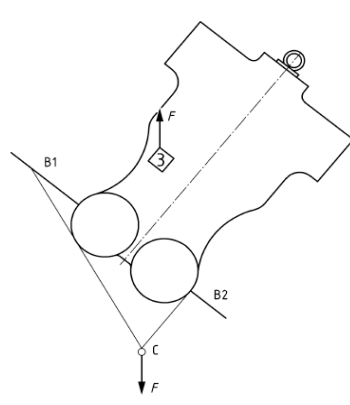
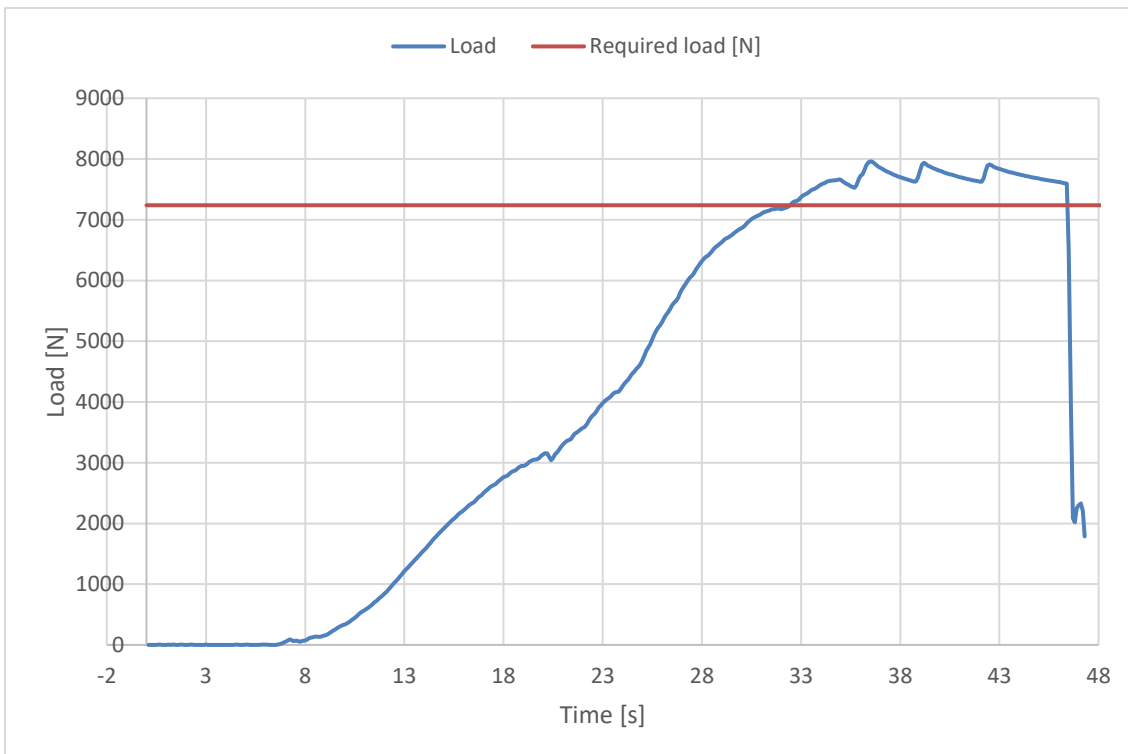
Inspection certificate number: **PH_334.2021**

model: **Airtrek 2**

Harness Structural test

Test ID 05

Standard	EN 1651
Reference in standard	5.5.1.2
Test setup	Positive asymmetric load
Attachment points	One riser attachment (3 or 4)
Anchor points	Dummy (C)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	5
Result	
Test duration [s]	14
Any signs of structural failure	No
Test results	POSITIVE

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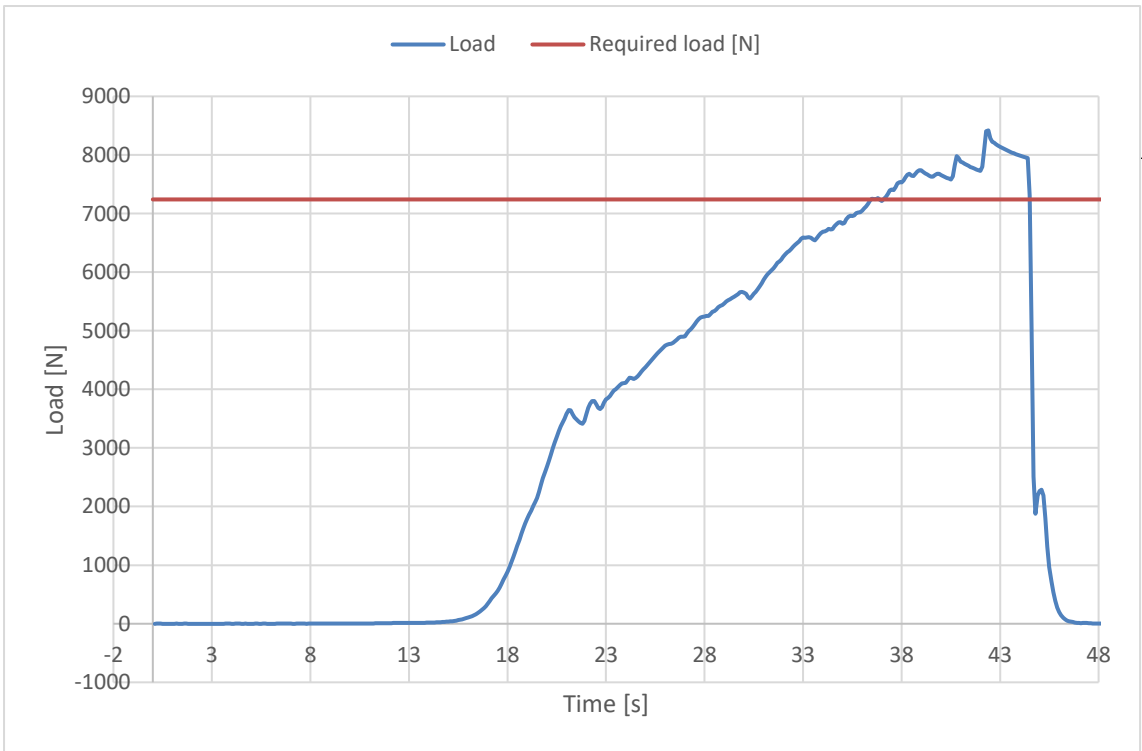
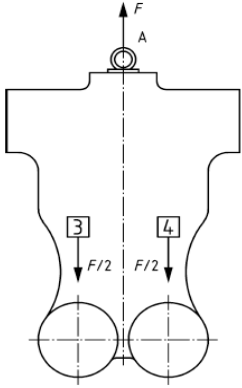
Inspection certificate number: **PH_334.2021**

model: **Airtrek 2**

Harness Structural test

Test ID 06

Standard	EN 1651
Reference in standard	5.5.1.6
Test setup	Negative symmetric load
Attachment points	Both main riser attachment (3,4)
Anchor points	Dummy (A)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	5
Result	
Test duration [s]	7.5
Any signs of structural failure	No
Test results	POSITIVE



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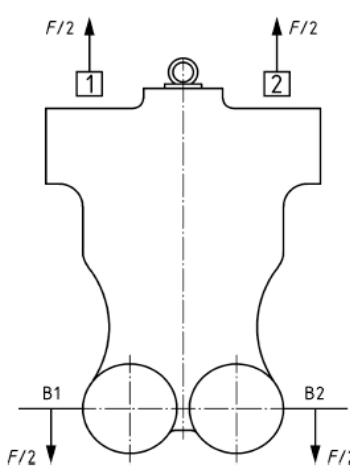
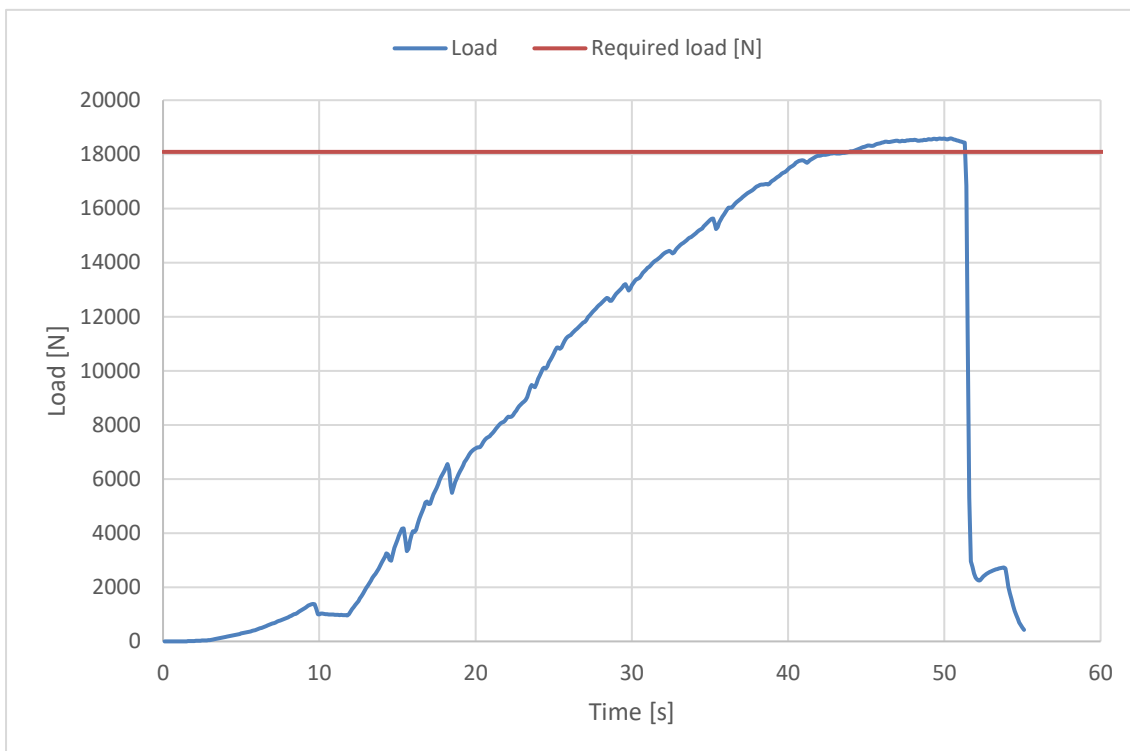
Inspection certificate number: **PH_334.2021**

model: **Airtrek 2**

Harness Structural test

Test ID 09

Standard	EN 1651
Reference in standard	5.5.1.3
Test setup	Positive symmetric load rescue points
Attachment points	Both main riser attachment (1,2)
Anchor points	Dummy (B1,B2)
Required load [g]	15
Required load [N]	18000
Minimum test duration [s]	5
Result	
Test duration [s]	7.5
Any signs of structural failure	No
Slippery test OK	Yes
Test results	POSITIVE

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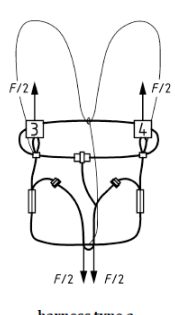
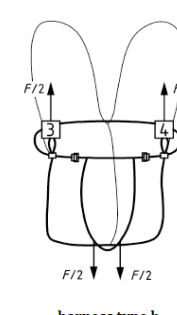
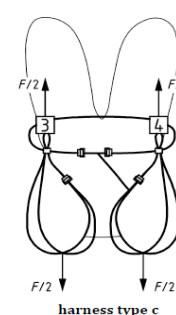
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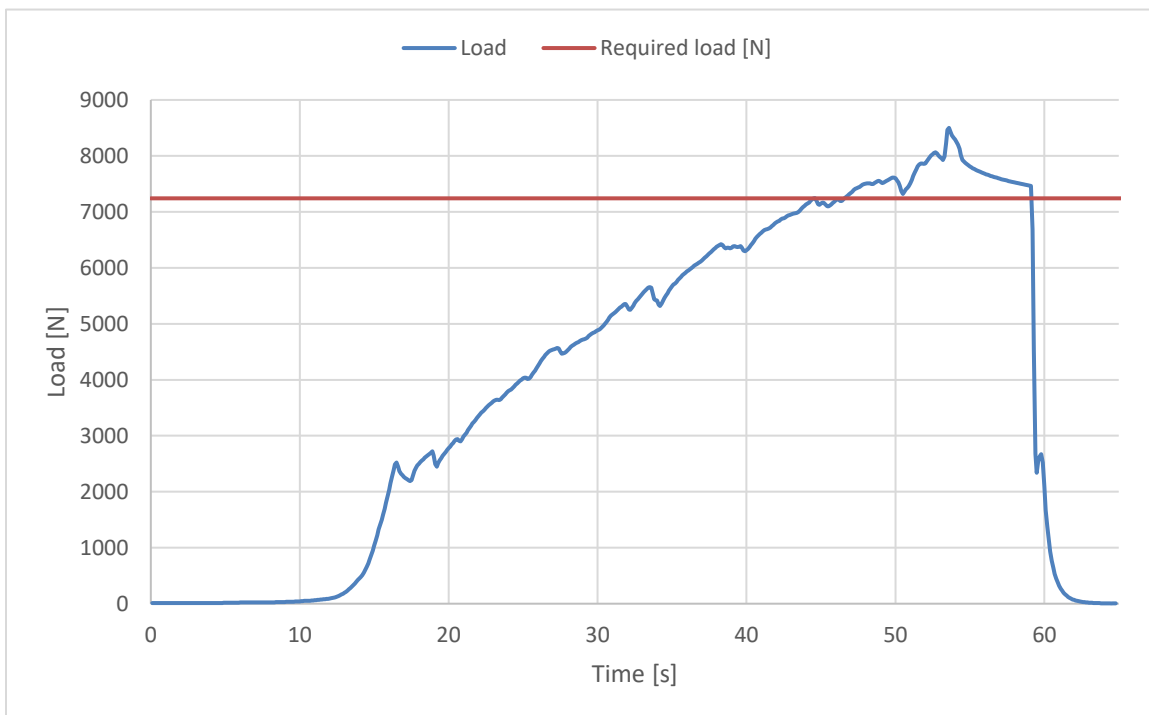
model: **Airtrek 2**

Harness Structural test

Test ID 12

Standard	EN 1651
Reference in standard	5.5.1.7
Test setup	Upright (landing) position load
Attachment points	Both main riser attachment (3, 4)
Anchor points	Both legstrap of harness (no dummy)
Required load [g]	6
Required load [N]	7200
Minimum test duration [s]	5
Harness type	type b
Result	
Test duration [s]	12.6
Any signs of structural failure	No
Slippery test OK	Yes
Test results	POSITIVE



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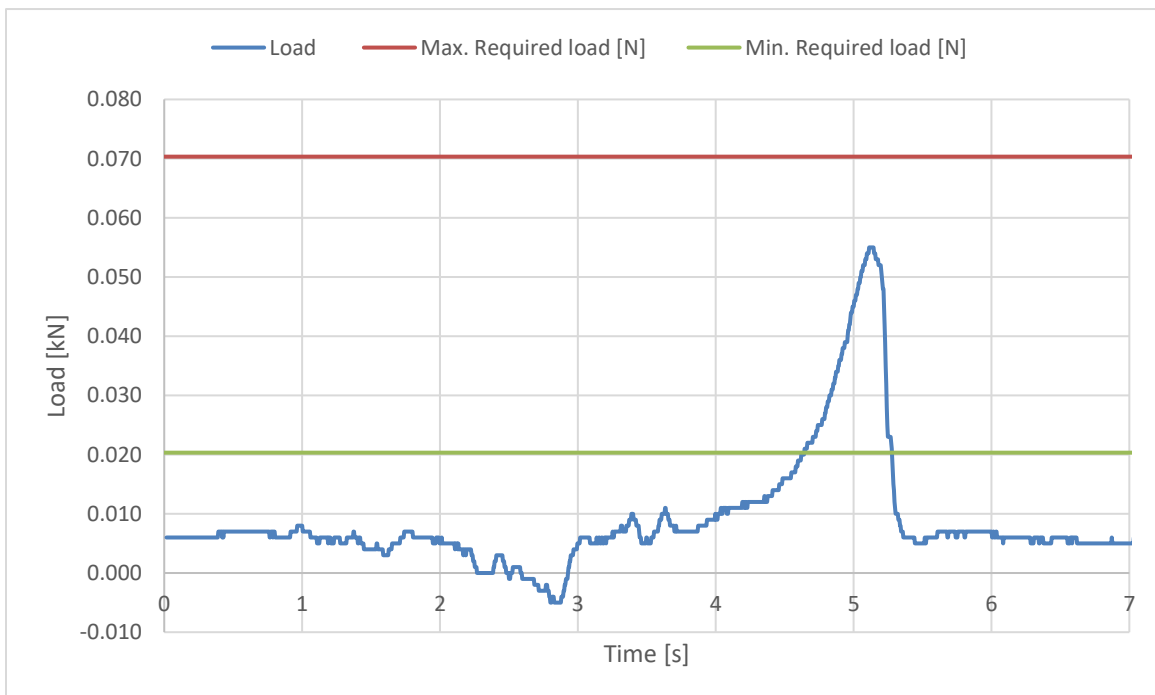
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model: **Airtrek 2**

Rescue Deployment Test

Test ID RRDT

Standard	LTF NfL II 91/09
Reference in standard	6.1.5
Test setup	Default flying position
Attachment points	Sensor connect to handle, and pull in opening direction
	The test is to simulate the load required to open the emergency parachute(1st action).
Min. Required load [N]	20
Max. Required load [N]	70
Result	
Load for first action [N]	54.67
Test results	POSITIVE



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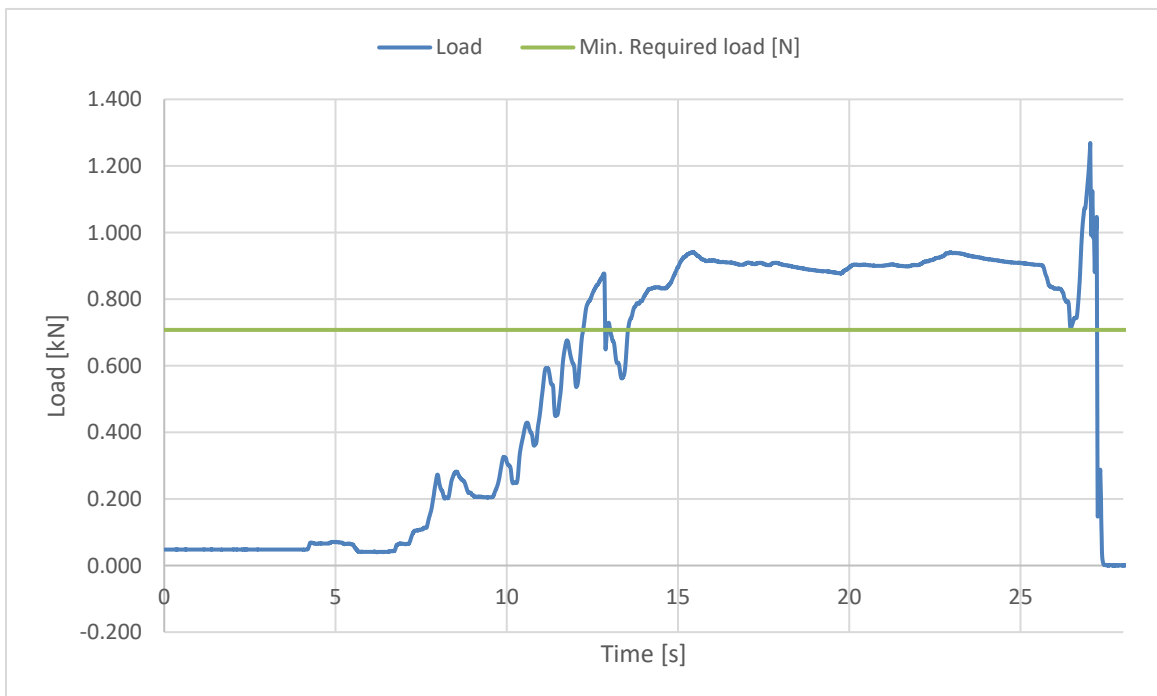
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model: **Airtrek 2**

Rescue Deployment Handle strength test

Test ID RRST

Standard	EN12491:2015
Reference in standard	5.3.2
Test setup	Two end points of handle
Attachment points	Sensor connect to end of handle, pull on the other side
	The handle must support min 700 N for 10 s, after measure breaking strength
Min. Required load [N]	700
Minimum test duration [s]	10
Result	
Test duration [s]:	13.6
Breaking strength [N]	1261.38
Test results	POSITIVE



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Selon le programme de certification version F d'Alienor Certification et en exécution du Règlement UE 2016/425 du Parlement Européen et du Conseil du 09 mars 2016 relatif aux équipements de protection individuelle et abrogeant la directive 89/686/CEE, l'EPI objet de cette attestation est conforme aux exigences essentielles de santé et de sécurité applicables.

According to version F of the certification program of Alienor Certification and in application of the Regulation EU 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/ECC, the PPE relative to this certificate is compliant with the essential health and safety requirements.

Alienor Certification, organisme notifié pour effectuer l'examen UE de type prévu et identifié sous le numéro 2754 attribué
Alienor Certification, body notified to carry out the EU type examination and identified under number 2754, grants

L'ATTESTATION D'EXAMEN UE DE TYPE the EU type Examination Certificate

N° 2754/2580/162/11/20/0604



Accréditation n° 5-0599
Portée disponible sur www.cofrac.fr

Type d'équipement *Type of equipment* :

Protection pour sellette de parapente *Protection for paragliding harness*

Référentiel technique *Technical baseline*:

Protocole *Protocol* SP-002

& dire d'expert *expert assessment*

Catégorie EPI *PPE category* :

Type II

Fabricant demandeur *Applicant manufacturer* :

SUPAIR SAS

34 rue Adrastée 74650 Chavanod – France

Référence *Reference*:

AIRBAG - ALTIRANDO LITE

Taille *Size* :

Taille unique *one size*

Description *Description* :



Date de début de validité <i>Date of beginning of validity</i>	Date de renouvellement <i>Date of renewal</i>	Date d'expiration <i>Expiration date</i>
17/11/2020	/	16/11/2025

Pour les EPI de catégorie III, cette attestation ne peut être utilisée qu'en liaison avec une des procédures de validation de la conformité visées à l'Article 19 point c) du règlement 2016/425.
For category III PPE, this certificate may only be used in conjunction with one of the conformity validation procedures referred to in Article 19 c) of Regulation 2016/425.

A Châtelleraut, *In Châtelleraut*

Nota : toutes modifications du type apportées à l'EPI ou à sa documentation technique, approuvées par le fabricant et qui peuvent remettre en cause la conformité de l'EPI aux exigences essentielles de santé et de sécurité applicables ou aux conditions de validité de cette attestation doit être portée à la connaissance de l'organisme notifié conformément à l'annexe V point 7.2 du règlement UE 2016/425.

Any modification carried out on the material being the subject of the present EU type Examination Certificate, or on the technical documents, approved by the manufacturer and that could question the compliance of the PPE with the essential health and safety requirements or the validity conditions of this certificate, must be brought to the attention of the notified body, in accordance with Annex V point 7.2 of Regulation UE 2016/425.

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

ALIENOR CERTIFICATION

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

☎ : 33 (0)5 49 14 13 10 📠 : 33 (0)5 49 21 76 20 Courriel : contact@alienor-certification.fr Site Internet : <http://www.alienor-certification.fr>

DECLARATION UE DE CONFORMITE

Le fabricant : **SUPAIR s.a.s.**

Adresse : **Parc Altais – 34 rue Adrastée – 74650 Chavanod – France**

Déclare sous sa seule responsabilité que **le produit suivant** :

Marque commerciale :	SUPAIR	
Désignation modèle :	Altirando Lite	
Référence :	SRTFALTIRANDOLITE	
Description :	Amortisseur de choc Airbag intégré à la sellette, composé d'une enveloppe en tissu cloisonnée	

- Est conforme au règlement (UE) 2016/425 relatifs aux équipements de protection individuelle (catégorie II) ;
- Est conforme au modèle ayant fait l'objet de l'examen de type (module B).
- Standards utilisés : EN1651 :1999, EN12491 :2015 et LTF NfL II 91/09 chapitre 4 et 6

L'organisme notifié :

ALIENOR CERTIFICATION,
ZA du Sanital – 21 rue Albert Einstein – 86100 Chatellerault – France

A effectué l'examen UE de type (module B) et a établi l'attestation d'examen UE de type

N° 2754/2580/162/11/20/0604

Etablis à Chavanod

Date 26/08/2022

Signature

Par Yoann Chavanne

Fonction Concepteur sellette

