Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Structural test Report - NfL

Inspection certificate number: PH_367.2022

Manufacturer data:		Sample data:	
Manufacturer name:	Supair SAS	Name:	Delight 4 Sport
Representative:	Laurent Chiabaut	Type:	ABS
Street:	Parc Altais / 34, rue Adrastée	Size:	Μ
Post code place:	74650 Chavanod	Serial number:	2172MM0602RO#14
Country:	France	Impact pad type: (1)	Foam
		Clip-in weight [kg]:	130
		Integrated container:	Yes
		Date of test:	22.08.2022
Atmosphere AGL:	1		

[C°]	23	
RH [%]	52	
[hPa]	1004	

Summary of Structural test

Test id	-	Ref.	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	V	5.3.2.1	Default flying position	6	7800	10	POSITIVE
03	V	5.3.2.2	Default flying position	15	19500	5	POSITIVE
04	V	5.3.2.3	Asymmetric, one riser	6	7800	10	POSITIVE
07	V	5.3.2.6	Asymmetric, negative	4.5	5850	10	POSITIVE
09	V	5.3.2.4	Rescue attachments	15	19500	5	POSITIVE
13	V	5.3.2.7	Flying position before landing	15	19500	5	POSITIVE
14		5.3.2.5	Towing	5	6500	10	n/a

Rescue deployment test

Test id - NfL 2-565-20	Setup	Min load [N]	Max. load [N]	Measured [N]	Result
RRDT V 6.1.5	Default flying position	20	70	51.65	POSITIVE

Rescue Deployment Handle strength test

Test id	-	EN 12491	Setup	Req. Load [N]	Min. duration [s]	Breaking strength [N]	Result
RRST	۷	5.3.2	Two end points of handle	700	10	2120.82	POSITIVE

Rescue deployment test with integrated container for rescue system

Test id - NfL 2-565-20	Setup	Result
RDIC V 4.3.2-4.3.6	Release of the container at maximum volume	Positive

Manufacturer	Instrument	Type no	S/N	Validity
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	04.09.2023
Burster / MTS	Load sensor 10kN SL2	8431-6010-N000S000	593507	21.04.2026
JDC elec	Geos n°11 Skywatch	Geos n°11	Unit11	18.06.2025

Air Turquoise SA, having thoroughly assessed the sample mentioned above, declares it was found conform with

Airworthiness Requirements NfL 2-565-20 - EN12491:2015 5.3.2

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

Calculated values 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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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Inspection certificate number: PH_367.2022

model: Delight 4 Sport

Harness Structural test		Test ID 02
Standard	NfL 2-565-20	
Reference	5.3.2.1	
Test setup	Default flying position	
Attachment points	Both main riser attachment (3,4)	
Anchor points	Dummy (B1, B2)	
Required load [g]	6	Ó
Required load [N]	7800	
Minimum test duration [s]	10	
Result		
Test duration [s]	15.9	F/2 🔺 🔺 F/2
Any signs of structural failure	Νο	
Test results	POSITIVE	\3 4/
) i (
		B1B2
		$F/2$ \downarrow \downarrow \downarrow $F/2$



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Inspection certificate number: PH_367.2022

model: Delight 4 Sport

Harness Structural test		Test ID 13
Standard	NfL 2-565-20	
Reference	5.3.2.7	
Test setup	Flying position before landing	
Attachment points	Both main riser attachment (3,4)	
Anchor points	Dummy (7,8)	
Required load [g]	15	
Required load [N]	19500	
Minimum test duration [s]	5	- AN
Result		F_{1} (+)
Test duration [s]	8.3	
Any signs of structural failure	Νο	3/4
Test results	POSITIVE	
		7/8



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Inspection certificate number: PH_367.2022



model: Delight 4 Sport

Harness Structural test		Test ID 14
Standard	NfL 2-565-20	
Reference	5.3.2.5	
Test setup	Towing	
Attachment points	Both main riser attachme	ent (3,4)
Anchor points	Both tow release points	(5,6) -direction of towing cable
Required load [g]	5	
Required load [N]	6500	Ø
Minimum test duration [s]	10	
Result		
Test duration [s]	0	
Any signs of structural failure	Νο	
Test results	n/a	∖」 「」 」 ↓ /
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Inspection certificate number: PH_367.2022

model: Delight 4 Sport

Rescue Deployment Har	ndle 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, p	oull on the other side
	The handle must support min 700 N for 10	0 s, after measure breaking strength
Min. Required load [N]	700	
Minimum test duration [s]	10	
Result		
Test duration [s]:	19.3	
Breaking strength [N]	2120.82	
Test results	POSITIVE	



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Inspection certificate number: Ph

PH_367.2022

model: Delight 4 Sport

Rescue deployment test fo	r harness with int	egrated inner	container		Test ID RDIC
Standard	NfL 2-565-20				
Reference	4.3.2-4.3.6				
Test setup WI 14	Release of the c	ontainer at ma	ximum volu	ime	
Min volume (harness)	2400				
Max volume (harness)	5000				
		Volume [cm^3]	Result	Test date	
Emergeny Parachute	Square/Triangle	5200	Positive	11.04.2022	
Emergeny Parachute	Round		n/a		
Emergeny Parachute	Rogallo		n/a		
		Total Result	Positive		