Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)2) 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Structural test Report

Inspection certificate number: PH_274.2019

Manufacturer data: Sample data:

Manufacturer name: Davinci Products Inc. Name: Harmony Passenger Air

Representative: Jihun Lee Type: ABS
Street: 53 sinchon-gil, Okcheon-myeon, Yangpyeon Size: Unique
Post code place: Gyeonggi-do 12505 Serial number: HHA-100491
Country: Republic of Korea Impact pad type: (1) Airbag

Clip-in weight [kg]: 110

Date of test: **27.05.2019**

Atmosphere AGL:

[C°]	21.4
RH [%]	40
[hPa]	978.1

Summary of Structural test

				Req. Load			
Test id	-	EN 1651:2018	Setup	[g]	Req. Load [N]	Min. duration [s]	Result
1 (3)	٧	5.5.1.1	Positive symmetric load (Slippage)	4.5	4950	5	POSITIVE
1 (3)	٧	5.5.1.1b	Positive symmetric load	15	16500	5	POSITIVE
2	٧	5.5.1.2	Positive asymmetric load	6	6600	5	POSITIVE
3 (3)(4)		5.5.1.3	Positive symmetric load rescue points	15	16500	5	n/a
4 (3)(4)		5.5.1.4	Negative symmetric load rescue points	15	16500	5	n/a
5		5.5.1.5	Negative symmetric load towing points	5	5500	5	n/a
6	٧	5.5.1.6	Negative symmetric load	6	6600	5	POSITIVE
7 ⁽³⁾	٧	5.5.1.7	Upright (landing) position load	6	6600	5	POSITIVE
8		5.5.1.8	Connecting element for rescue	24	26400	0.3	n/a
9 (5)	٧	5.5.1.9	Anti falling-out system	4.5	4950	5	POSITIVE

Rescue deployment test

			Min load			
Test id	NfL II 91/09	Setup	[N]	Max. load [N]	Measured [N]	Result
RRDT	6.1.5	Default flying position	20	70	0.00	n/a

Rescue Deployment Handle strength test

Test id	- EN 12491	Setup	Req. Load [Mir	n. duration [s]	Breaking strength	n [⊧Result
RRST	5.3.2	Two end points of handle	700	10	0.00	n/a

Manufacture	Instrument	Type no S/N	N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN- ⁻ 313	314643	04.09.2023
Burster	Sensor Burster	8431-10000 118	85483	04.09.2023
JDC elec	Geos n°11 Skywatch	Geos n°11 22		08.05.2020

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%.

This declaration must not be reproduced in part without the written permission of AIR TURQUOISE SA.

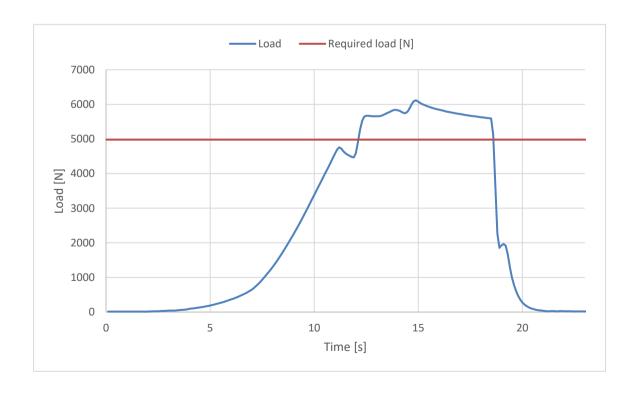
Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65



Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

Harness Structural test		Test ID 1
Standard	EN 1651:2018	
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]	4950	
Minimum test duration [s]	5	
Result		
Test duration [s]	6.5	F/2 A F/2
Any signs of structural failure	No	$\langle \perp \mid \perp \rangle$
Slippery test OK	n/a	\3 4/
Test results	POSITIVE) j
		B1 B2
		F/2 V F/2



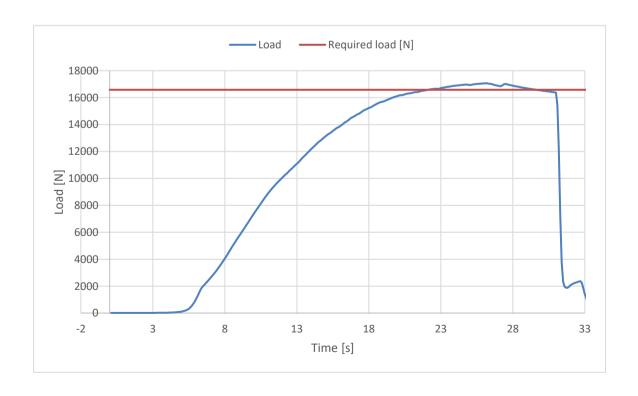
Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

paragliding by air turquoise

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

Harness Structural test		Test ID 1
Standard	EN 1651:2018	
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]	16500	
Minimum test duration [s]	5	
Result		
Test duration [s]	7.5	F/2 🛕 🗼 F/2
Any signs of structural failure	No	\
Slippery test OK	n/a	\3 4/
Test results	POSITIVE) j
		B1 B2
		F/2 V F/2



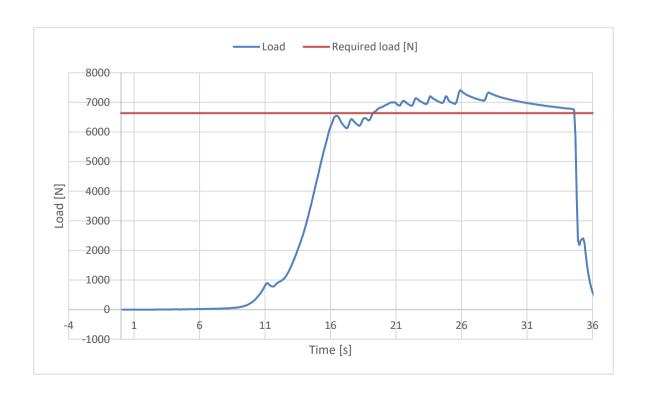
Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

paragliding by air furquoise

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

Harness Structural test		Test ID 2
Standard	EN 1651:2018	
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]	6600	/ \ ^ @
Minimum test duration [s]	5	
Result		f * / >
Test duration [s]	15.4	B1 /3 /
Any signs of structural failure	No	
Test results	POSITIVE	
		V Y
		B2
		`
		Î
		♥ F



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

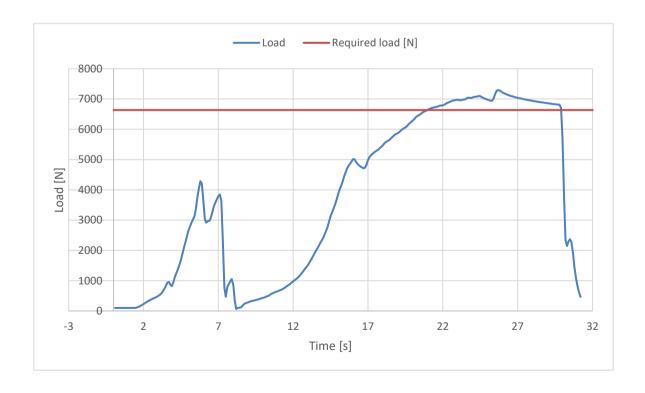
Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

paragliding by air turquoise

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

	Test ID 6
EN 1651:2018	
5.5.1.6	
Negative symmetric load	
Both main riser attachment (3,4)	
Dummy (A)	
6	A.F.
6600	T _
5	
9	
No) [
POSITIVE	
	\P \P/
) ↓ F/2 ↓ {
	(
	5.5.1.6 Negative symmetric load Both main riser attachment (3,4) Dummy (A) 6 6600 5



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

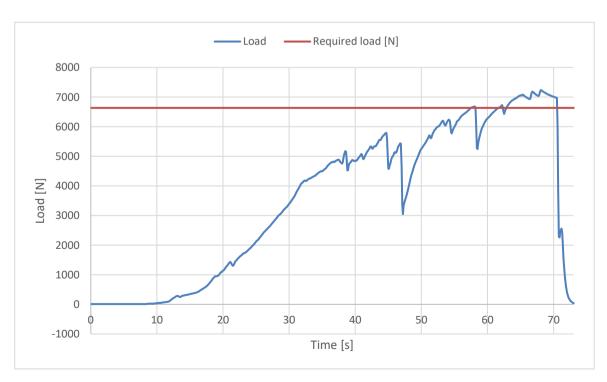
Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

paragliding by air furquoise

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

Test ID 7 **Harness Structural test** EN 1651:2018 Standard 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] Required load [N] 6600 Minimum test duration [s] 5 Harness type type a Result 7.7 Test duration [s] Any signs of structural failure No Slippery test OK n/a **POSITIVE** Test results harness type a harness type b



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

paragliding by air turquoise

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Inspection certificate number: PH_274.2019 model: Harmony Passenger Air

Harness Structural test Test ID 9 EN 1651:2018 Standard Reference in standard 5.5.1.9 Test setup Anti falling-out system Attachment points Around anti falling-out system Anchor points Both main riser attachment (no dummy) Required load [g] 4.5 Required load [N] 4950 Minimum test duration [s] 5 Result Test duration [s] 11 No Any signs of structural failure **POSITIVE** Test results

