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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Harness Structural test Report - LTF

Inspection certificate number: PH_287.2019

Manufacturer data: Sample data:

Manufacturer name:Sol Paragliders - Sol Sports Ltda.Name:CX MaxRepresentative:Ary Carols PradiType:ABSStreet:Rua Walter Marquardt,1180Size:M

Post code place: Cep 89259-565 Jaraguá do Sul, SC Serial number: 25025 Country: Brazil Impact pad type: (1) Foam

Date of test: **16.04.2019**

Clip-in weight [kg]: 120

Atmosphere AGL:

[C°]	20.3
RH [%]	40
[hPa]	980.6

Summary of Structural test

Test id	-	EN 1651	Setup	Req. Load [g]	Req. Load [N]	Min. duration [s]	Result
02	٧	5.3.2.1	Default flying position	6	7200	10	POSITIVE
03	٧	5.3.2.2	Default flying position	15	18000	5	POSITIVE
04	٧	5.3.2.3	Asymmetric, one riser	6	7200	10	POSITIVE
07	٧	5.3.2.6	Asymmetric, negative	4.5	5400	10	POSITIVE
09	٧	5.3.2.4	Rescue attachments	15	18000	5	POSITIVE
13	٧	5.3.2.7	Flying position before landing	15	18000	5	POSITIVE
14		5.3.2.5	Towing	5	6000	10	n/a

Rescue deployment test

Test id - NfL II 91/09	Setup	Min load [N]	Max. load [N]	Measured [N]	Result
RRDT V 6.1.5	Default flying position	20	70	30.73	POSITIVE

Rescue Deployment Handle strength test

Test id	-	EN 12491	Setup	Req. Load [N]	Min. duration [s]	Breaking strength [N]	Result
RRST	٧	5.3.2	Two end points of handle	700	10	1058.74	POSITIVE

Manufacture	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	04.09.2023
Burster	Sensor Burster	8431-10000	1185483	04.09.2023
JDC elec	Geos n°11 Skywatch	Geos n°11	22	08.05.2020

Air Turquoise SA, having thoroughly assessed the sample mentioned above, declare it was found conform with European Standard EN1651:1999, and EN12491:2015 - Airworthiness Requirements LTF NfL II 91/09

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

 $^{\left(1\right)}$ If Impact pad available, see test report no. 94.22 and inspection certificate no. 94.20

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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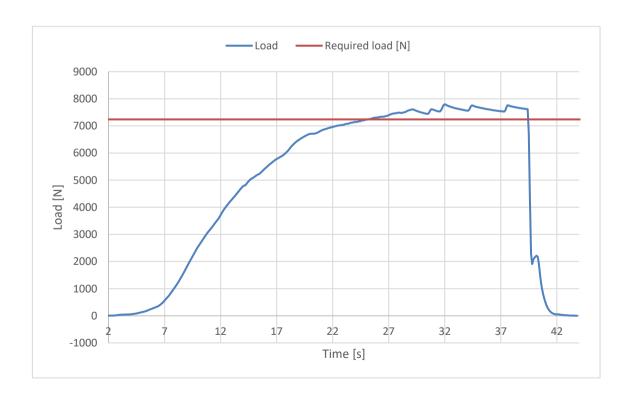
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test		Test ID 02
Standard	EN 1651:1999	
Reference in standard	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	
Required load [N]	7200	
Minimum test duration [s]	10	
Result		
Test duration [s]	14.4	F/2 🛕 🕴 🕴 F/2
Any signs of structural failure	No	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Test results	POSITIVE	\3 4/
) j
		B1 B2
		F/2 V F/2



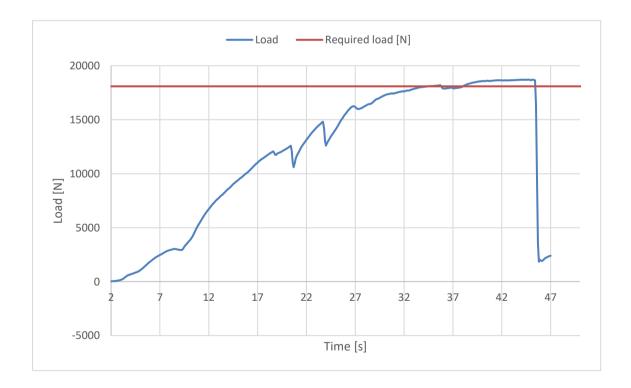
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test		Test ID 03
Standard	EN 1651:1999	
Reference in standard	5.3.2.2	
Test setup	Default flying position	
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]	7.4	F/2 A A F/2
Any signs of structural failure	No	
Test results	POSITIVE	\国 值/
		B1 B2
		F/2 V F/2
		,



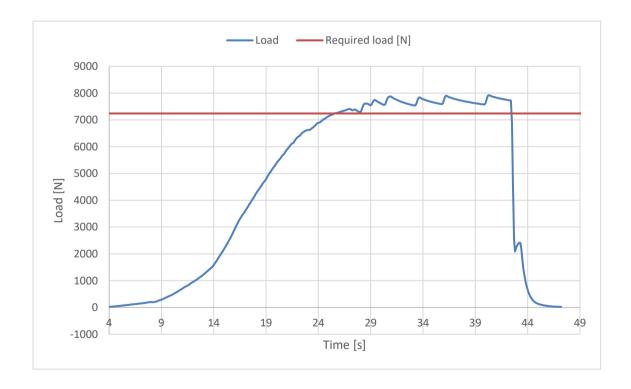
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test		Test ID 04
Standard	EN 1651:1999	
Reference in standard	5.3.2.3	
Test setup	Asymmetric, one riser	
Attachment points	One main riser attachment (3)	
Anchor points	Dummy (B1,B2)	
Required load [g]	6	•
Required load [N]	7200	
Minimum test duration [s]	10	\$ \
Result		∫ F
Test duration [s]	16.9	B1 3
Any signs of structural failure	No	
Test results	POSITIVE	
		X Y
		B2
		Ç
		V F



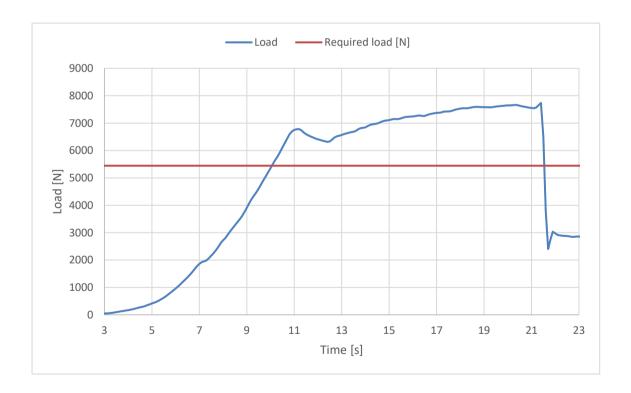
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test		Test ID 07
Standard	EN 1651:1999	
Reference in standard	5.3.2.6	
Test setup	Asymmetric, negative	
Attachment points	One main riser attach	nment (3 or 4) downwards
Anchor points	Dummy (9)	
Required load [g]	4.5	↓ ^F
Required load [N]	5400	9
Minimum test duration [s]	10	
Result) /
Test duration [s]	11.5	
Any signs of structural failure	No	3/4 /
Test results	POSITIVE	
		\bigcup_{F}



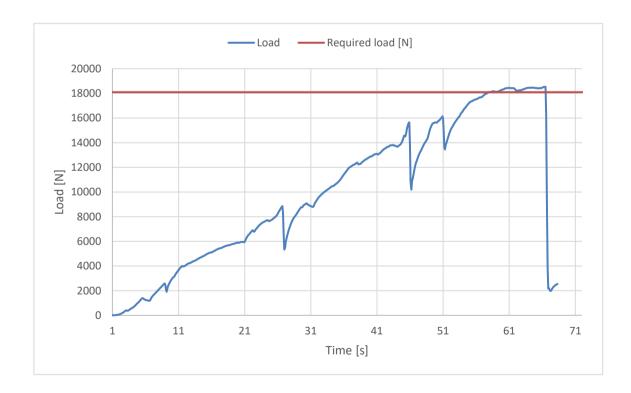
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test			Test ID 09
Standard	EN 1651:1999		
Reference in standard	5.3.2.4		
Test setup	Rescue attachments		
Attachment points	Rescue riser attachment (1,2)		
Anchor points	Dummy (B1,B2)		
Required load [g]	15	F/2 🛕	♦ F/2
Required load [N]	18000	<u> </u>	
Minimum test duration [s]	5		2
Result	0.0		
Test duration [s]	8.6 No	Ì	(
Any signs of structural failure		l i	
Test results	POSITIVE		
			1
		B1 ()	B2
		F/2	V F/2



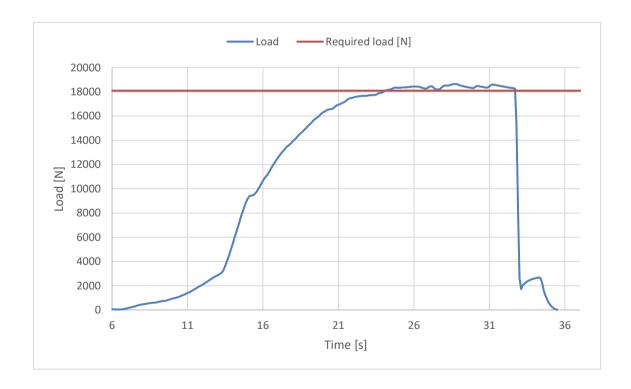
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Inspection certificate number: PH_287.2019 model: CX Max

Harness Structural test		Test ID 13
Standard	EN 1651:1999	
Reference in standard	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]	18000	
Minimum test duration [s]	5	
Result		F. (+)
Test duration [s]	8.6	- H
Any signs of structural failure	No	3/44
Test results	POSITIVE	/
		10
		7/8 11



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Inspection certificate number: PH_287.2019 model: CX Max

Rescue Deployment Test

Test ID RRDT

Standard LTF NfL II 91/09

Reference in standard 6.1.5

Test setup Default flying position

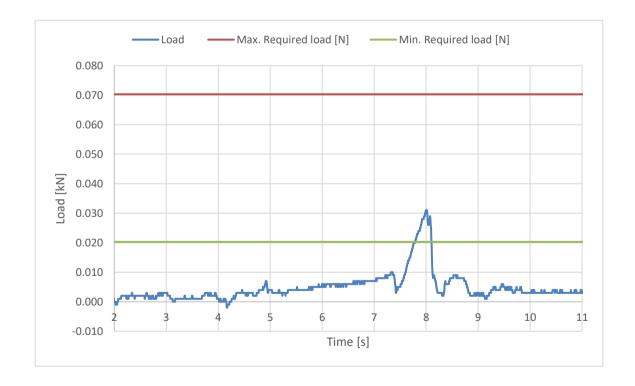
Attachment points Sensor connect to handle, and pull in opening direction

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] 30.73
Test results POSITIVE



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Inspection certificate number: PH_287.2019 model: CX Max

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]: 15.7
Breaking strength [N] 1058.74
Test results POSITIVE

