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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Test report Kite security system

tested and certified after NF S52-503

Manufacturer: Skywalk GmbH & Co. KG

Addresse: Windeckstr.4

83250 Marquartstein

Germany

Cert.no. KS 004.2016 **Model:** Inf. 3.0 QR

SN: 511502815

Place/date: Villeneuve, 13/04/2016

minimum weight 40 kg maximum weight 120 kg

Complete System

Test id.

4.3.1.1 Verify installation of complete system; Main release, 2nd release and power system In the report: Main release → chicken loop & 2nd release → Leash release Remarks if not according to user manual.

2 4.3.1.2.1 Test the complete system (new) at 15 daN

Main release 6,8
2nd release 3,4
Power adjustment Done, OK

3 4.3.1.2.2 Test the complete system (new) at 2 times the maximum weight 10 power-ups

Done, OK

Security System

4 4.3.1.3.2 Accessibility

at 15° Done, OK at 45° Done, OK Horizontally Done, OK

5 4.3.1.3.3 Releasing or accidental disconnection in load of 10 daN

It is verified that main release and 2nd release can not be activated unexpectely

Done, OK

6 4.3.1.3.4 Implementation with a load of 10 daN

at 15° Done, OK at 45° Done, OK Horizontally Done, OK

7 4.3.1.3.4.1 Single Action of both release system

Main release & 2nd release

Main Release 2nd release at 15° Done, OK Done, OK at 45° Done, OK Done, OK Done, OK Horizontally Done, OK Done, OK

3.1.4.5.1 and 3.1.4.5.2



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8 4.3.1.3.4.2 Axis implementation

Verify that the ergonomics and kinematics of the axis of implementation

Verify the systems are properly marked

Done, OK



9 4.3.1.3.4.3 Area Implementation with a load of 10 daN

to 15 ° from the vertical

to 45 ° from the vertical

to horizontal

Done, OK

Done, OK

Done, OK

Verify that the implementation of the control has no significant risk to the rider.

Main Release System

10 4.3.2.1.1 Measuring releasing time < 2s at maximum weight

15 ° from the vertical Done, OK horizontally Done, OK Each test is repeated 5 times

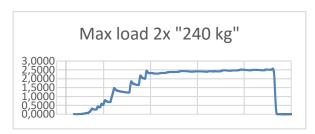
11 4.3.2.1.2 Overload the System upto 3 times maximum weight

tension gradually 3-6 seconds Done, OK

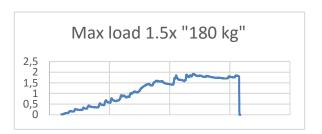
12 4.3.2.1.3 Deploy the security control, measuring of time and force

deploy force less than 10 daN and < 0.5s

2 times the maximum weight
1.5 times the maximum weight
the maximum weight
15 daN







7,6

6,5

6,0

6,6



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13	4.3.2.1.3 / In a dry environment, test done without cleaning		
	# 2 times the maximum weight	9,9	
	# 15 daN	9,9	
14	4.3.2.1.3 / In wet environment, test done without cleaning, drying		
	# 2 times the maximum weight	9,8	
	# 15 daN	7,9	
15	4.3.2.1.3 / In cold environment, test done without drying		
	# 2 times the maximum weight	8,1	
	# 15 daN	6,1	

2nd Release System

4.3.2.2.3 Deploy the security control, measuring of time and force deploy force less than 10 daN and < 0.5s

deploy lorce less than 10 dark and < 0.55	
# 1.5 times the maximum weight	5,0
# the maximum weight	3,4
# 15 daN	2.0

17	4.3.2.2.3 / In a dry environment, test done without cleaning		
	# 1.5 times the maximum weight	6,9	
	# 15 daN	3,6	
18	4.3.2.2.3 / In wet environment, test done without cleaning, dryi		
	# 1.5 times the maximum weight	9,2	
	# 15 daN	3,5	
19	.2.2.3 / In cold environment, test done without drying		
	# 1.5 times the maximum weight	5,6	
	# 15 daN	3,6	



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Information

Environments physicochemical

13&17 4.3.1.3.5.1 In a dry environment

The test specimen is mixed with dry sand for 10 s in the sand tray.

14&18 4.3.1.3.5.2 In wet environment

The test specimen is immersed in a bath of salt water at 10% and sanded to 75% of its volume. It is mixed for 10 s.

15&19 System is placed for two hours at -18 degrees celcius.

The material is wetted by spraying water before placed in cold environment (Air Turquoise info: Spraying in 20 s and placing vertikally in freezer)

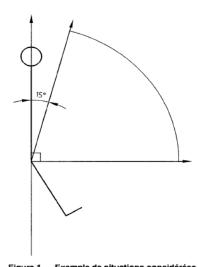


Figure 1 — Exemple de situations considérées comme prévisibles d'utilisation du système de sécurité

Figure 1: Example situations considered foreseeable use of the security system

