



Test report Kite security system

tested and certified after NF S52-503

Manufacturer	Gin Kiteboarding	Cert.no.	KS 001.2010
Adresse:	Place du Village 67 2518 Nods Switzerland	Model:	Zulu II

maximum weight 110 kg

Complete System

Test id.

1 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

Main release possible to mounting opposite, but still working. User manual is OK

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

Main release

ok

2nd release

ok

Power adjustment

ok

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

ok

Security System

4 4.3.1.3.2 Accessibility

at 15°

ok

at 45°

ok

Horizontally

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 unexpectedly

ok

6 4.3.1.3.4 Implementation with a load of 10 daN

at 15°

ok

at 45°

ok

Horizontally

ok

7 4.3.1.3.4.1 Single Action of both release system

Main release & 2nd release

Main Release
at 15°
at 45°
Horizontally
3.1.4.5.1 and 3.1.4.5.2

2nd release
ok
ok
ok



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

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

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

ok
ok
OK

Main Release System

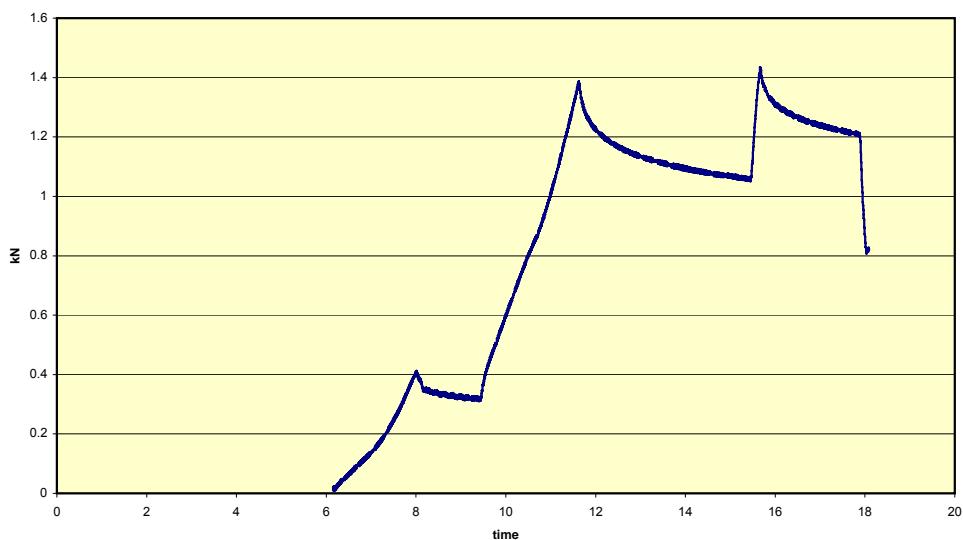
10 4.3.2.1.1 Measuring releasing time < 2s at maximum weight

15 ° from the vertical

horizontally

Each test is repeated 5 times

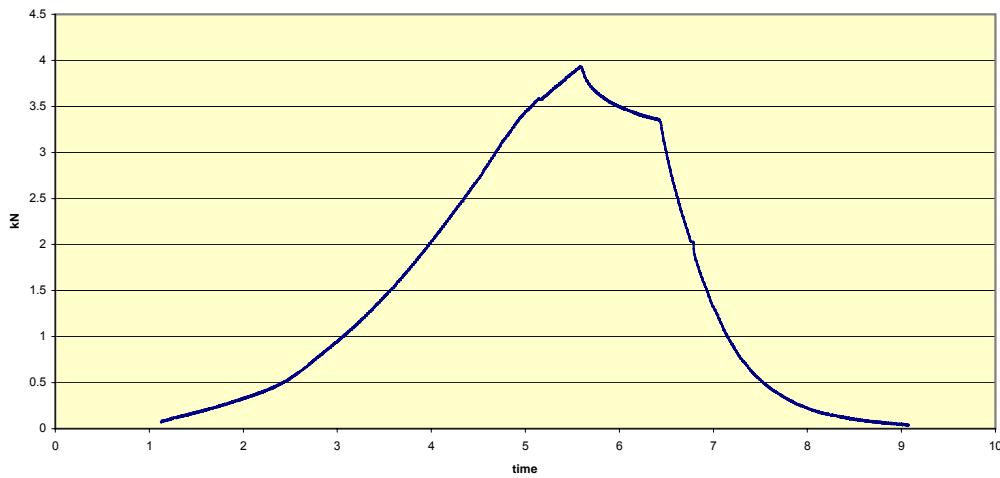
ok
ok



11 4.3.2.1.2 Overload the System upto 3 times maximum weight

tension gradually 3-6 seconds

ok





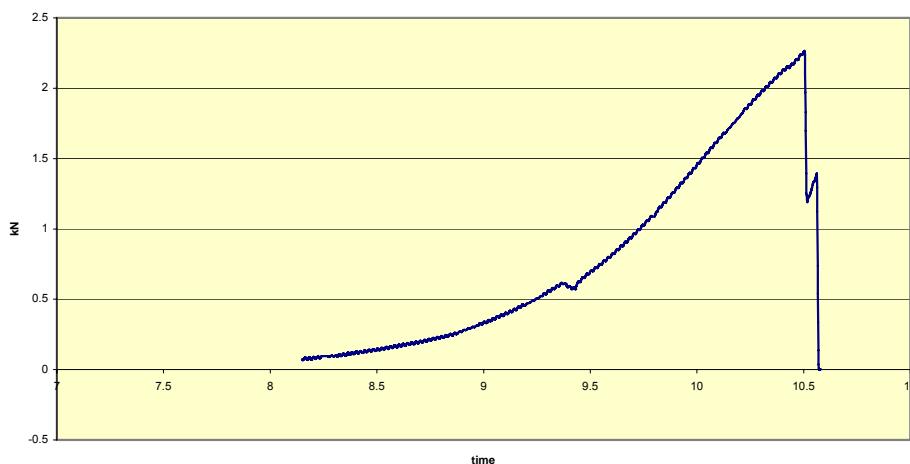
12 4.3.2.1.3 Deploy the security control, measuring of time and force

deploy force less than 10 daN and < 0.5s

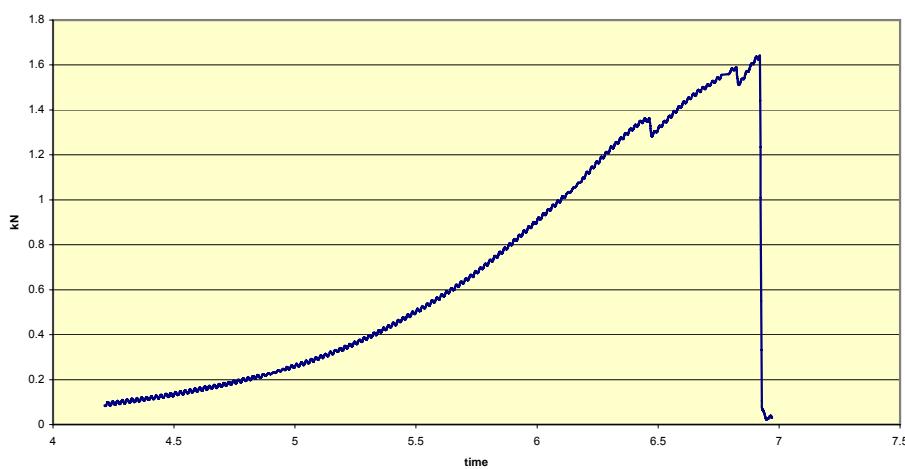
- # 2 times the maximum weight
- # 1.5 times the maximum weight
- # the maximum weight
- # 15 daN

9.8 kg
8 kg
4 kg
3 kg

220 kg

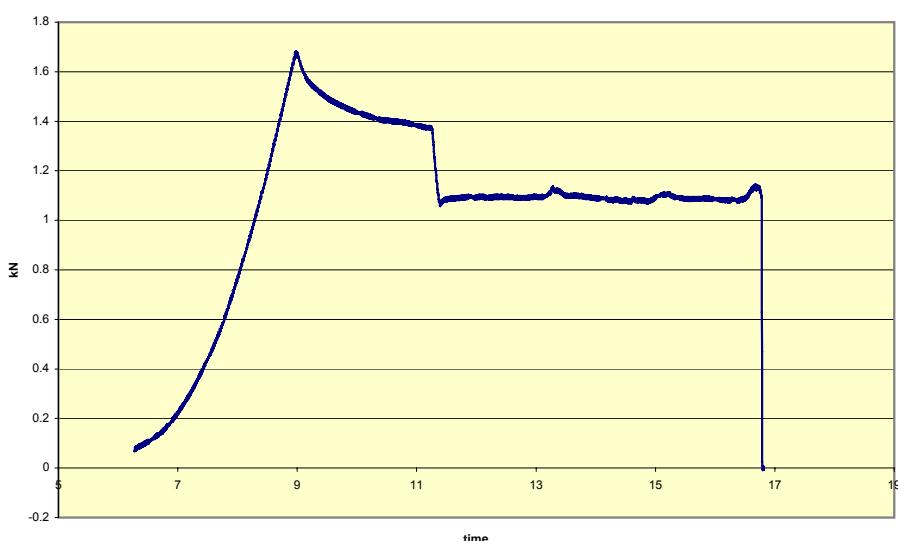


165 kg





110 kg



13 4.3.2.1.3 / In a dry environment, test done without cleaning

2 times the maximum weight **9.5 kg**
15 daN **3 kg**

14 4.3.2.1.3 / In wet environment, test done without cleaning, drying

2 times the maximum weight **7.0 kg**
15 daN **0.7 kg**

15 4.3.2.1.3 / In cold environment, test done without drying

2 times the maximum weight **9.5 kg**
15 daN **2 kg**



2nd Release System

16 4.3.2.2.3 Deploy the security control, measuring of time and force

deploy force less than 10 daN and < 0.5s

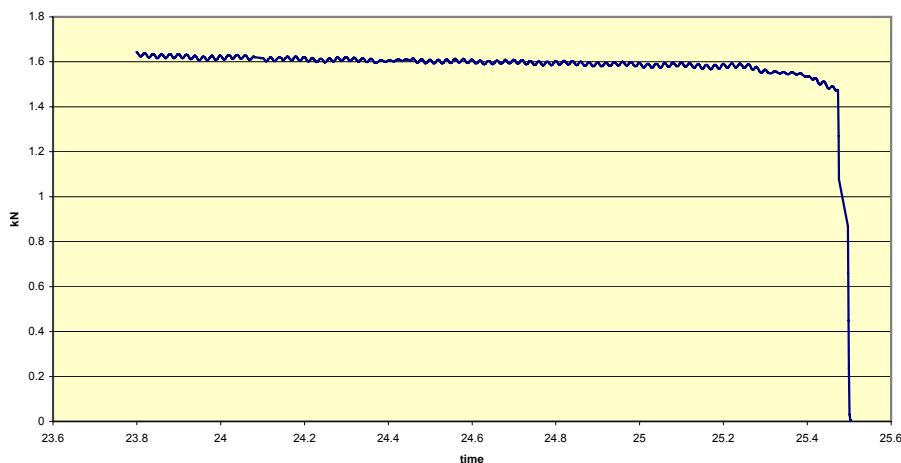
1.5 times the maximum weight

the maximum weight

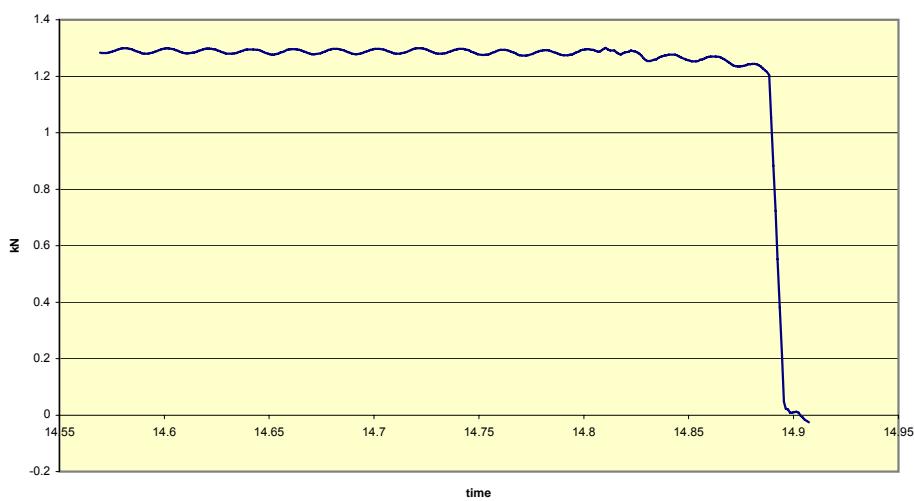
15 daN

9.8 kg
9.5 kg
2.5 kg

165 kg

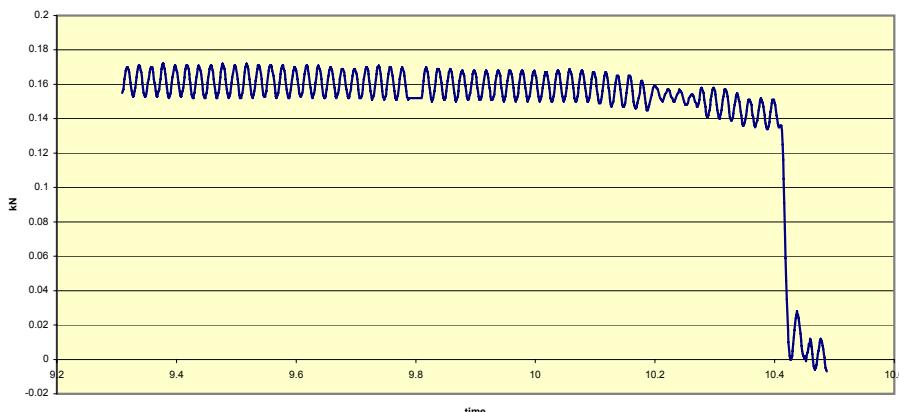


110 kg





15 daN

**17 4.3.2.2.3 / In a dry environment, test done without cleaning**

- # 1.5 times the maximum weight
- # 15 daN

9.5 kg
2.5 kg

18 4.3.2.2.3 / In wet environment, test done without cleaning, drying

- # 1.5 times the maximum weight
- # 15 daN

9 kg
2.5 kg

19 4.3.2.2.3 / In cold environment, test done without drying

- # 1.5 times the maximum weight
- # 15 daN

7.3 kg
0.4 kg

*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

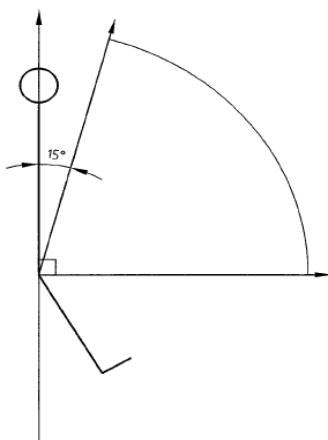


Figure 1 — Exemple de situations considérées comme prévisibles d'utilisation du système de sécurité

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