

Test report Kite security system

tested and certified after NF S52-503

| | | | |
|---------------------|---|--------------------|------------------------|
| Manufacturer | Gin Kiteboarding / Blue Boardsport AG | Cert.no. | KS 006.2014 |
| Adresse: | Skinadverstrasse 18 8700 Küsracht Switzerland | Model: | Gin Tonic Bar |
| | | Place/date: | Villeneuve, 01.05.2014 |
| | | minimum weight | 30 kg |
| | | 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
 Remarks if not according to user manual.
- 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 | 2nd release |
| at 15° | OK | OK |
| at 45° | OK | OK |
| Horizontally | OK | OK |

 3.1.4.5.1 and 3.1.4.5.2
- 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

OK
 OK
 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
 horizontally

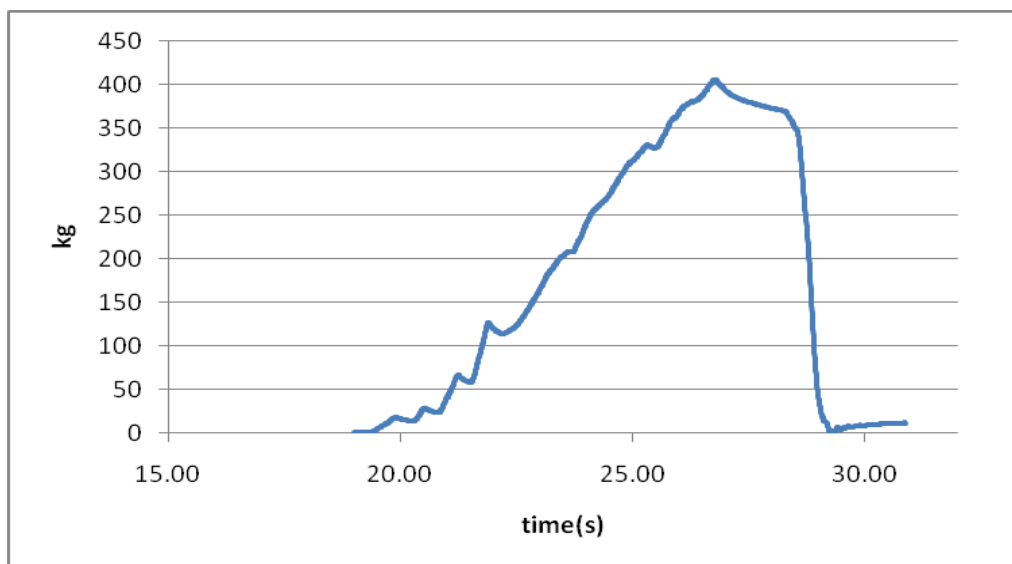
OK
 OK

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

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

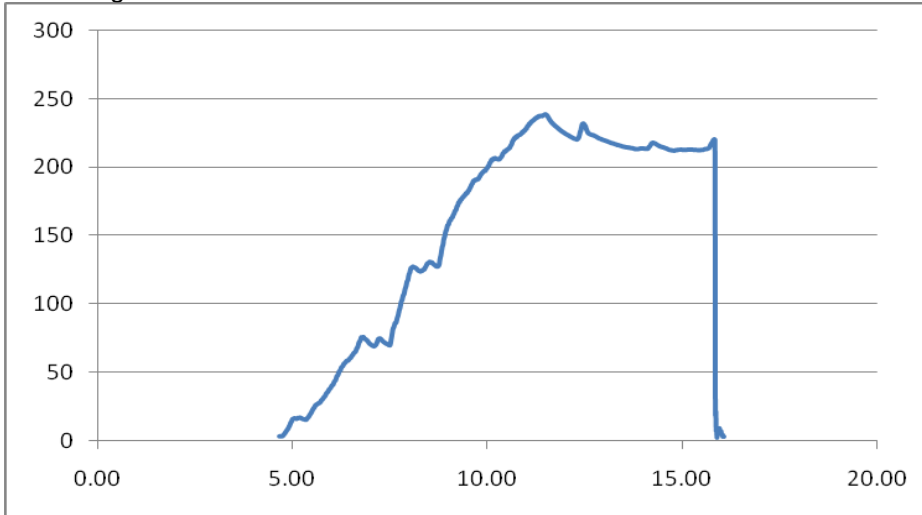
6 kg

4 kg

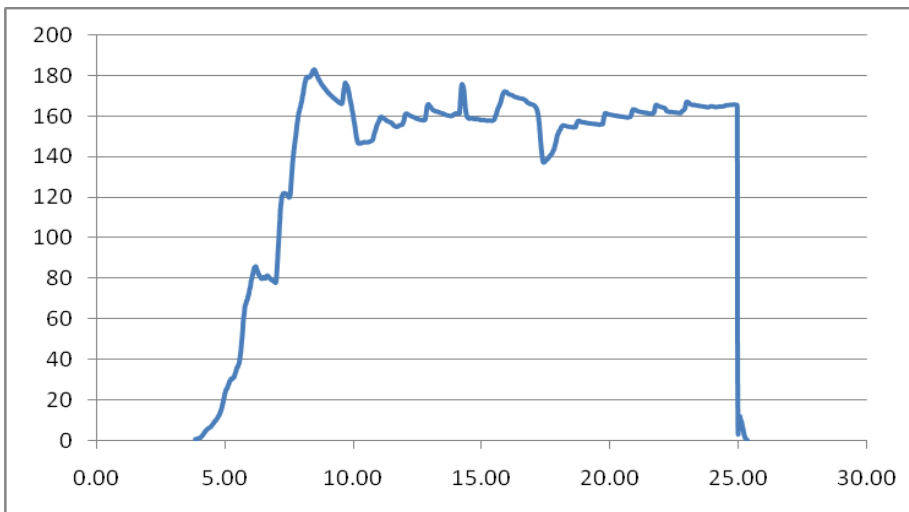
3.5 kg

2.4 kg

2xmax kg

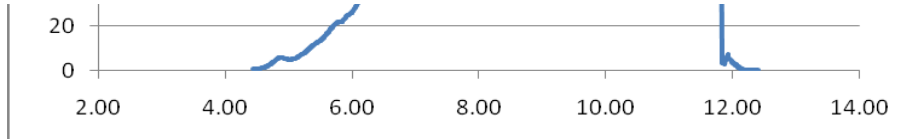


1.5xmax kg



max kg



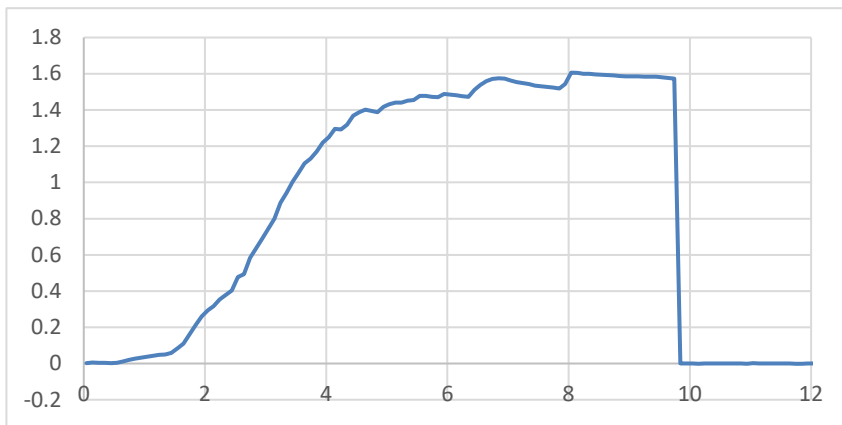


| | | | |
|----|---|------------------------------|--------|
| 13 | 4.3.2.1.3 / In a dry environment, test done without cleaning | # 2 times the maximum weight | 6.2 kg |
| | | # 15 daN | 2.8 kg |
| 14 | 4.3.2.1.3 / In wet environment, test done without cleaning, drying | # 2 times the maximum weight | 8 kg |
| | | # 15 daN | 4.5 kg |
| 15 | 4.3.2.1.3 / In cold environment, test done without drying | # 2 times the maximum weight | 8.2 kg |
| | | # 15 daN | 4.5 kg |

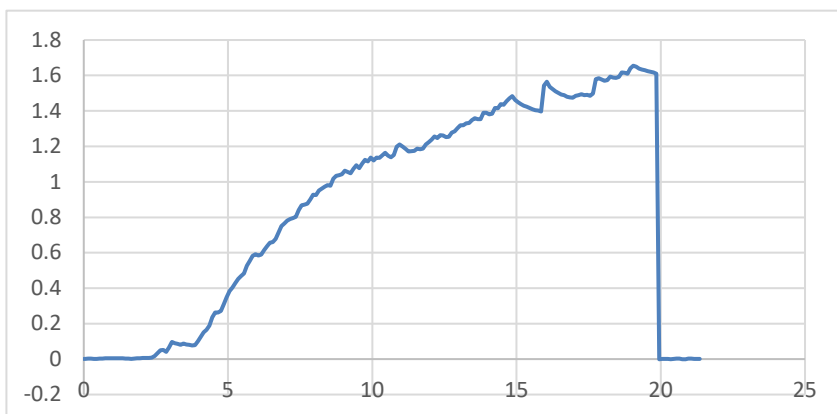
2nd Release System

| | | | |
|----|---|--|--------|
| 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 | 9.1 kg |
| | | # the maximum weight | 8.8 kg |
| | | # 15 daN | 3.7 kg |

1.5xmax kg

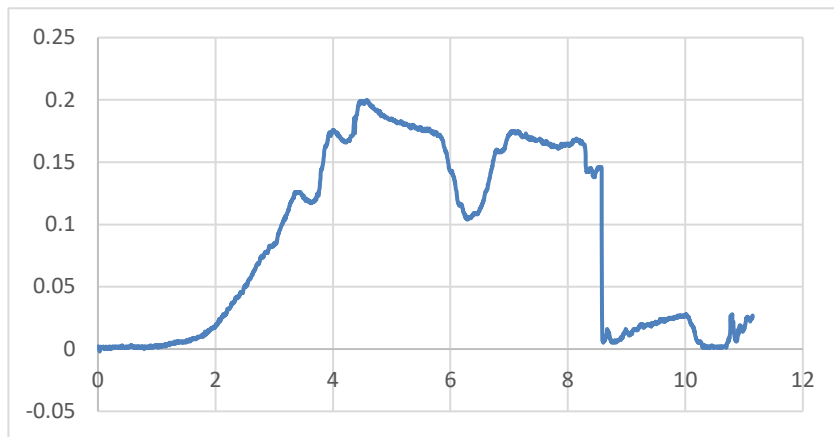


1xmax kg





15daN



| | | | |
|-----------|---|--------------------------------|--------|
| 17 | 4.3.2.2.3 / In a dry environment, test done without cleaning | # 1.5 times the maximum weight | 9.2 kg |
| | | # 15 daN | 8.2 kg |
| 18 | 4.3.2.2.3 / In wet environment, test done without cleaning, drying | # 1.5 times the maximum weight | 8.9 kg |
| | | # 15 daN | 10 kg |
| 19 | 4.3.2.2.3 / In cold environment, test done without drying | # 1.5 times the maximum weight | 6.4 kg |
| | | # 15 daN | 6.4 kg |

Information

Environments physicochemical

13&17 4.3.1.3.5.1 In a dry environment

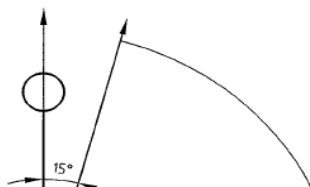
The test specimen is mixed with dry sand for 10 s in the sand tray.

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



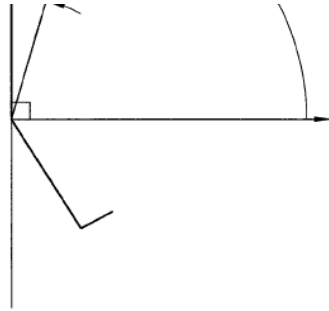


Figure 1 — Exemple de situations considérées
comme prévisibles d'utilisation du système de sécurité

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