



LOAD TEST REPORT Nfi II 35/03

The model describe hereafter is in conformity with the load test carried out by:
Air Turquoise SA, official test laboratory of Switzerland

Manufacturer:	Niviuk Gliders
Model:	Rigid spreader bar
Type:	Tandem
Maximum weight in flight:	220 kg

MECHANICAL RESISTANCE TEST

The model had been tested according to Nfi II 35/03 point 3.2.3, up to 9G of its total weight in flight or at least 1350 daN during 10 seconds.



Picture 1

Villeneuve, October 4th, 2013
Air Turquoise SA,

Alain Zoller

EN & LTF Testing center

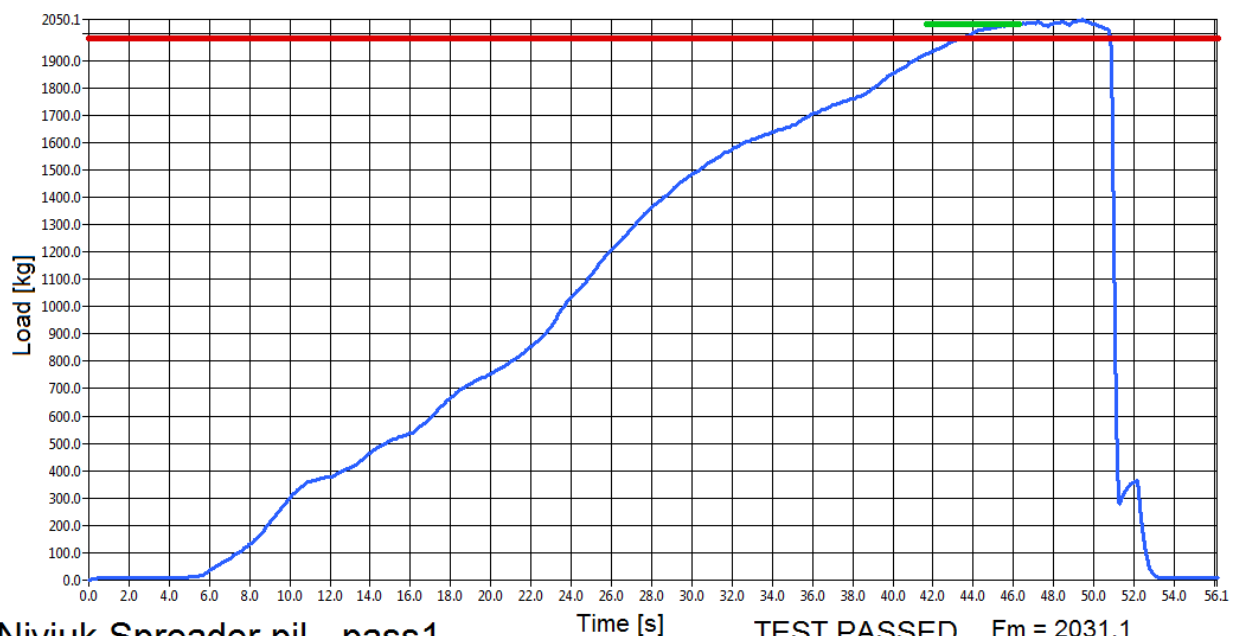


Test 1:

The load has been induced from pilot- and the first passenger attachment to the main attachment point of glider.

**Air Turquoise Homologations
 LOAD DIAGRAM**

Alain Zoller
 Rue de la Poterlaz 6, CP-10
 CH-1844 Villeneuve
 079 202 52 30 / info@airturquoise.ch



Niviuk Spreader pil - pass1
 Test Load [kg] = 1980

TEST PASSED Fm = 2031.1
 03/10/2013 - 16:22

measurement with ShockRecord
 (c) 2008 Jonas Buchli <jonas@buchli.org>

Tested successfully, up to 2000 daN

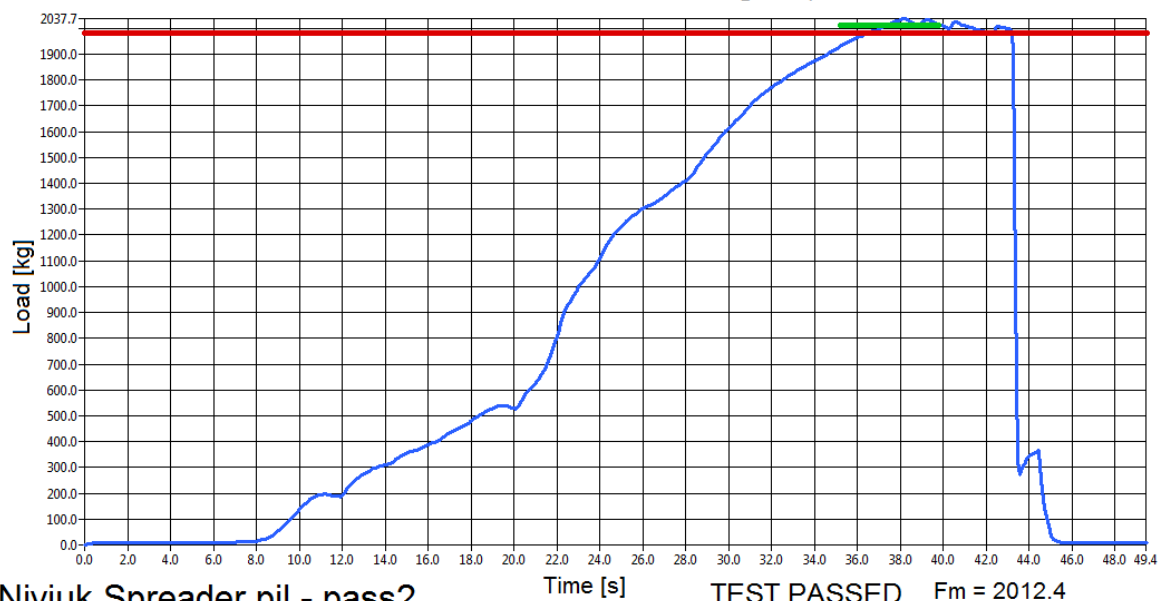


Test 2:

The load has been induced from pilot- and the second passenger attachment to the main attachment point to glider.

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Niviuk Spreader pil - pass2
 Test Load [kg] = 1980

TEST PASSED Fm = 2012.4
 03/10/2013 - 16:24

measurement with ShockRecord
 (c) 2008 Jonas Buchli <jonas@buchli.org>

Tested successfully, up to 2000 daN

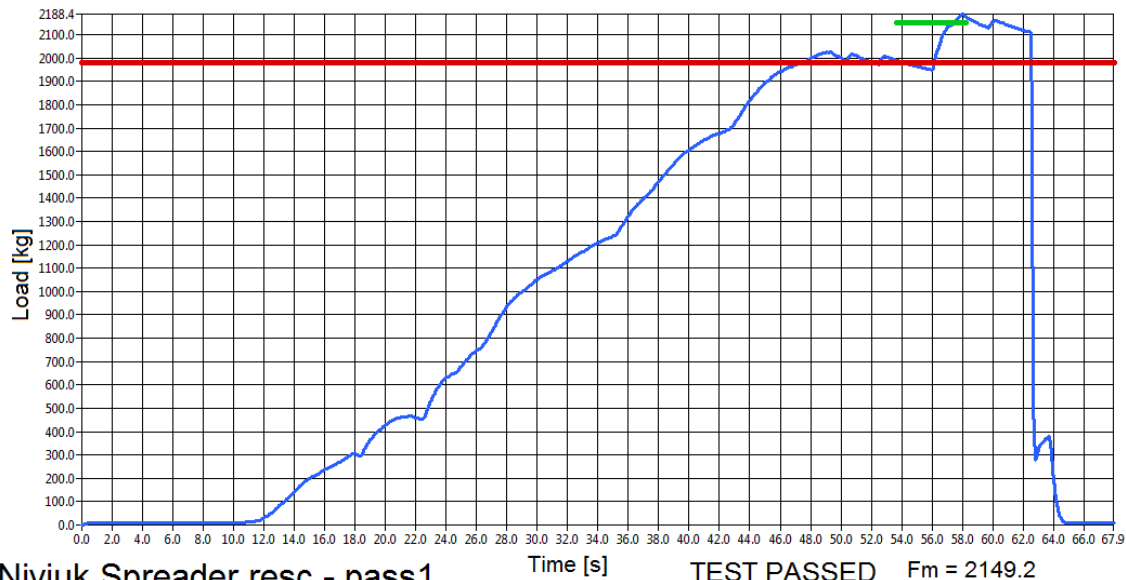


Test 3:

The load has been induced from pilot- and the first passenger attachment to the rescue attachment point of glider.

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Alain Zoller
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Niviuk Spreader resc - pass1

Test Load [kg] = 1980

TEST PASSED

03/10/2013 - 16:29

Fm = 2149.2

measurement with ShockRecord
 (c) 2006 Jonas Buchli <jonas@buchli.org>

Tested successfully, up to 2000 daN



Test 4:

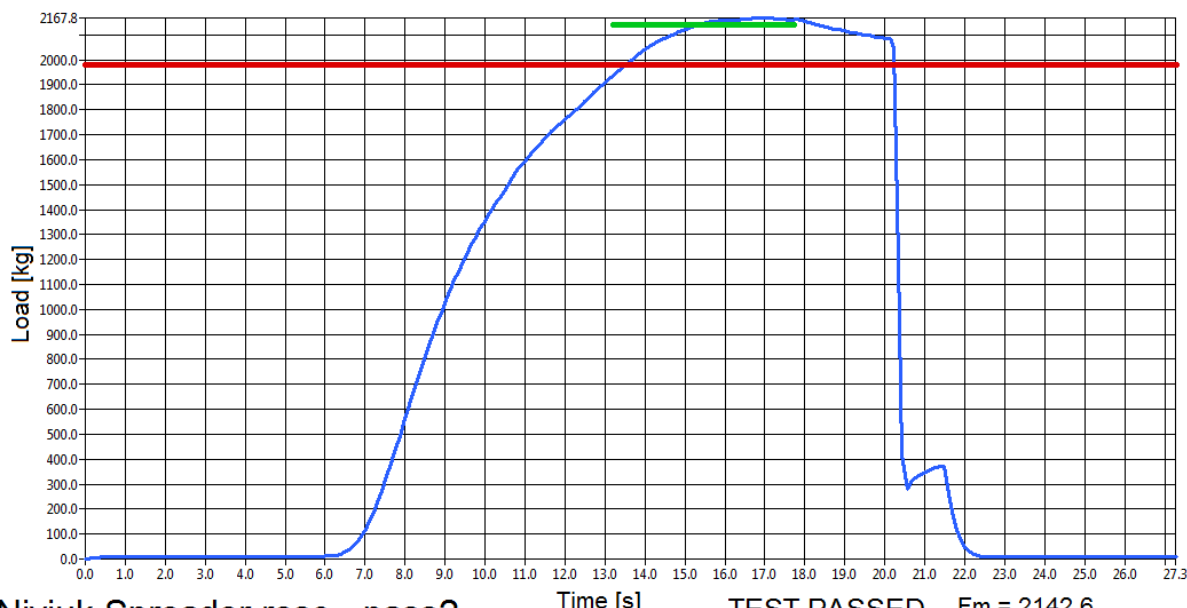
The load has been induced from pilot- and the second passenger attachment to the rescue attachment point of glider.





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LOAD DIAGRAM

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Niviuk Spreader resc - pass2

TEST PASSED Fm = 2142.6

Test Load [kg] = 1980

03/10/2013 - 16:30

measurement with ShockRecord
 (c) 2006 Jonas Buchli <jonas@buchli.org>

Tested successfully, up to 2000 daN

Test 5:

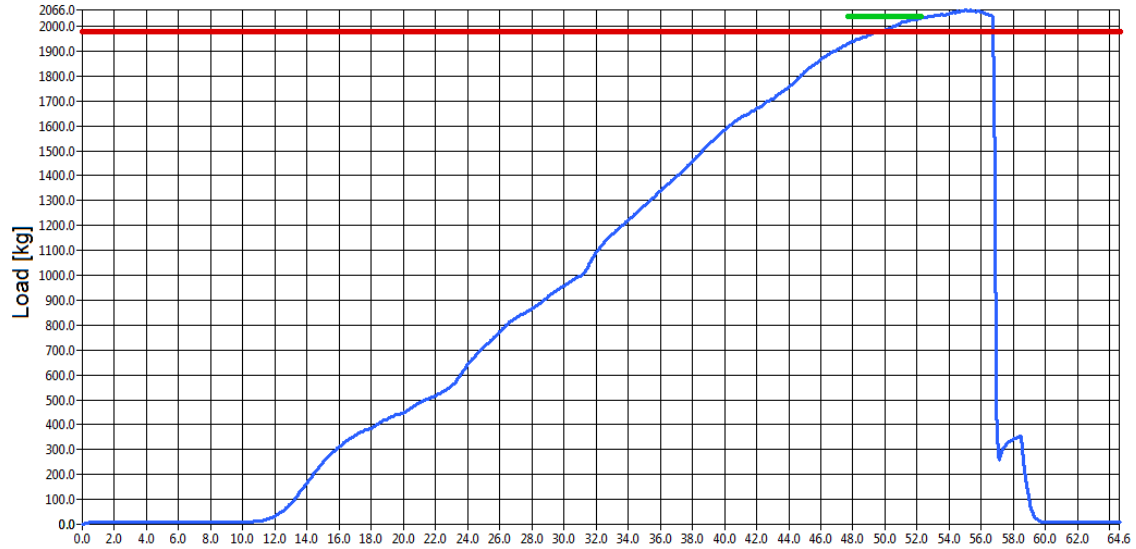
The load has been induced straight from pilot- and the first passenger attachment.





Air Turquoise Homologations LOAD DIAGRAM

Alain Zoller
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 CH-1844 Villeneuve
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Niviuk Spreader strait pilot - pass1 Time [s]

TEST PASSED Fm = 2041.4

Test Load [kg] = 1980

03/10/2013 - 16:34

measurement with ShockRecord
 (c) 2006 Jonas Buchli - jonas@buchli.org

Tested successfully, up to 2000 daN

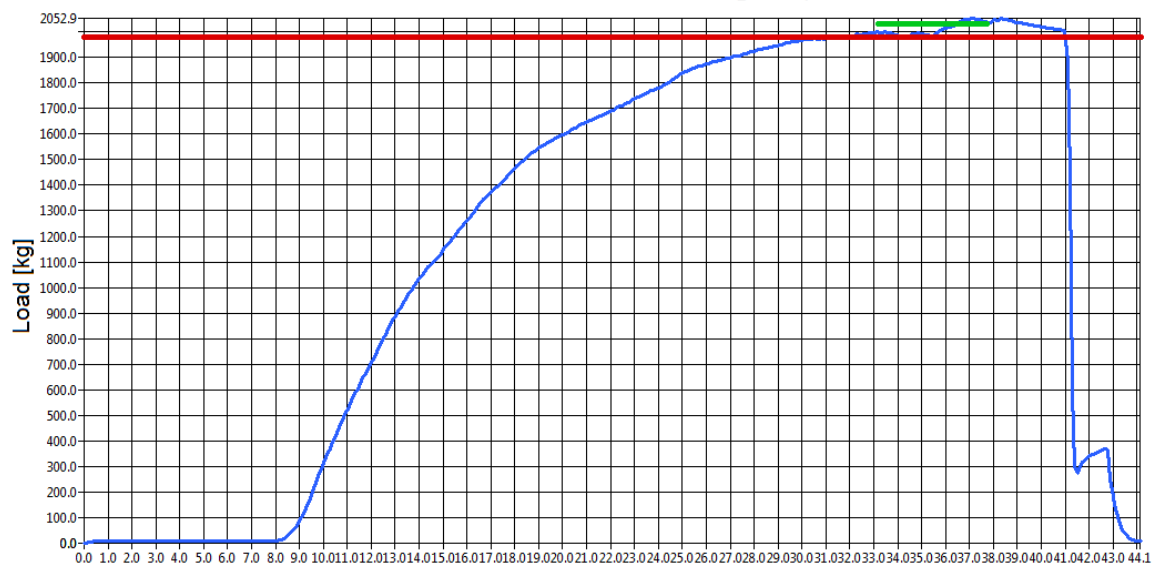
Test 6:



The load has been induced strait from pilot- and the second passenger attachment.

Air Turquoise Homologations LOAD DIAGRAM

Alain Zoller
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Niviuk Spreader strait pilot - pass2 Time [s]

TEST PASSED Fm = 2032.2

Test Load [kg] = 1980

03/10/2013 - 16:37

measurement with ShockRecord
 (c) 2006 Jonas Buchli <jonas@buchli.org>

Tested successfully, up to 2000 daN

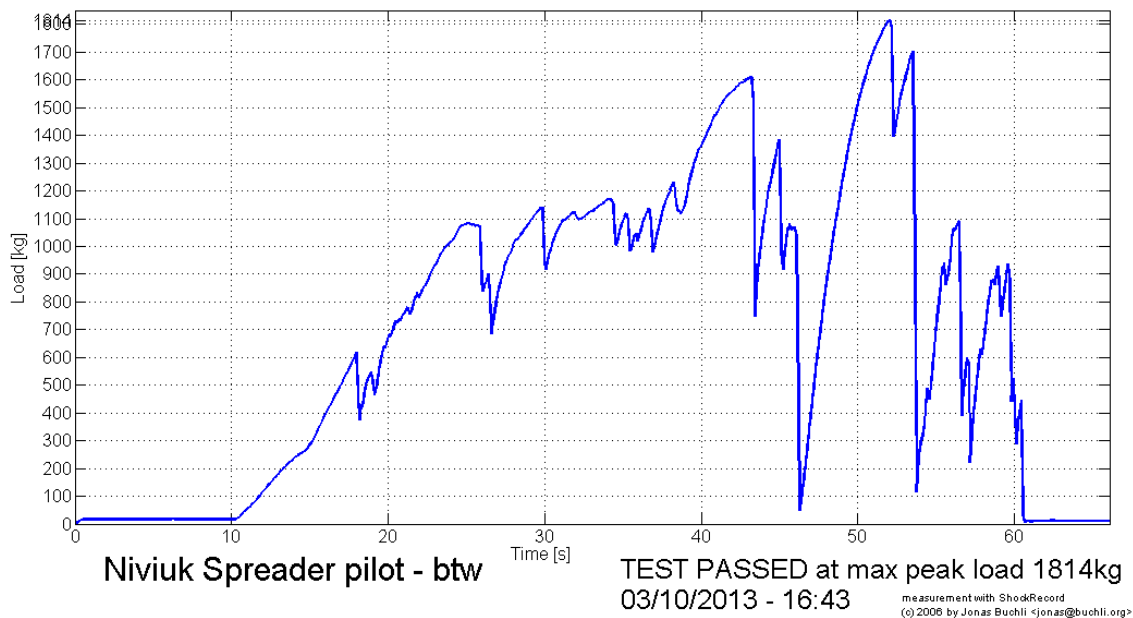
Test 7:

This test is not according to the standard, it is only for information.

The load has been induced from the main attachment to the T-bar of the spreader bar at passenger side.

**Air Turquoise Homologations
 LOAD DIAGRAM**

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This is the second where it was ripped off. Maximum value is 1814 daN.