



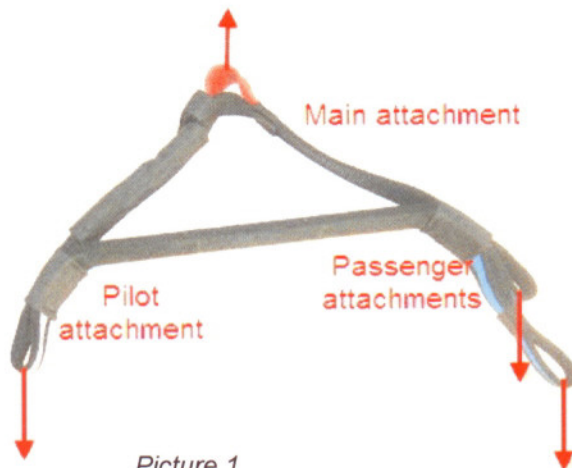
LOAD TEST REPORT Nfi II 35/03

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:	Bi
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 20th, 2010
Air Turquoise SA,

Alain Zoller



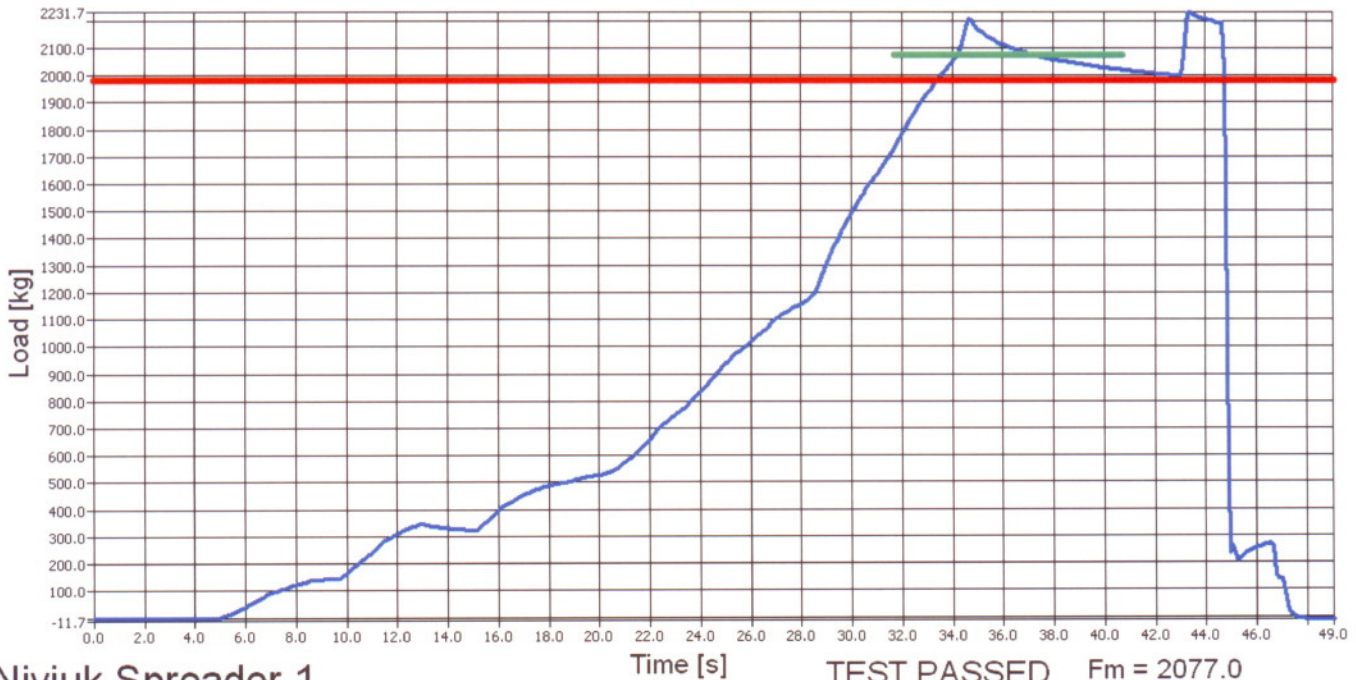


Test 1:

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 1

Test Load [kg] = 1980

TEST PASSED

Fm = 2077.0

4.5.2010 - 16:05

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

Tested successfully, up to 1980 daN during 12 seconds.



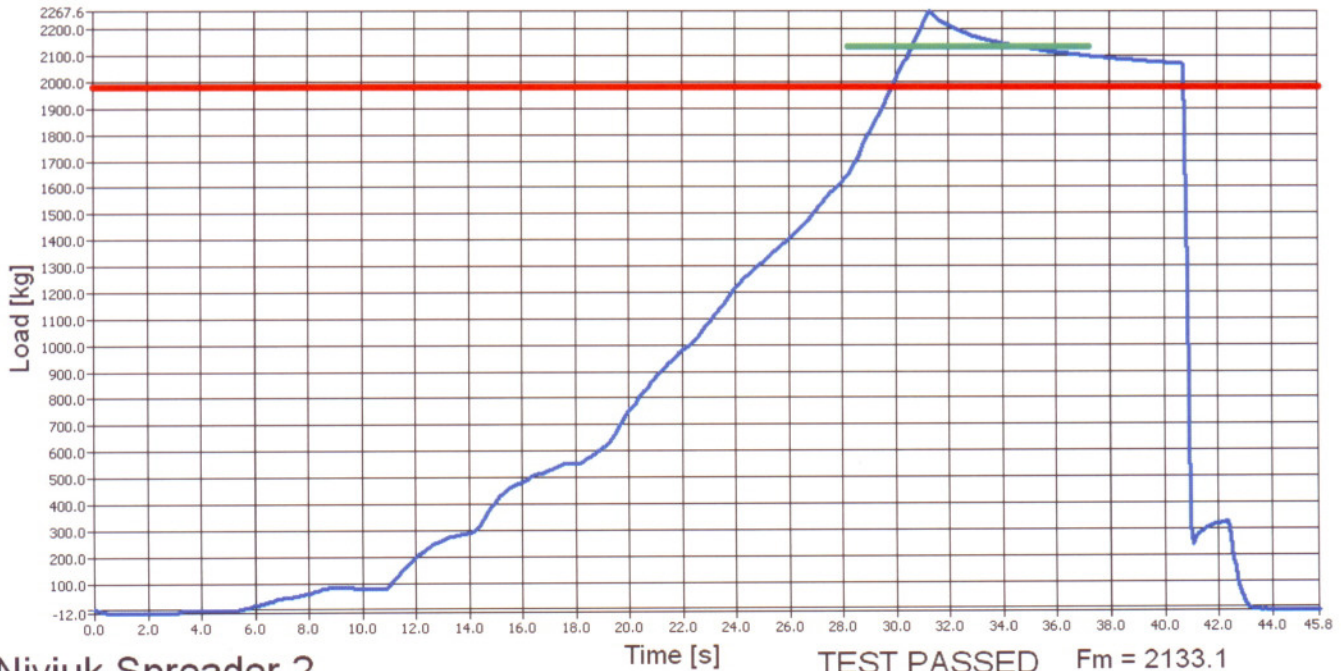


Test 2:

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

**Air Turquoise Homologations
 LOAD DIAGRAM**

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Niviuk Spreader 2

Test Load [kg] = 1980

TEST PASSED Fm = 2133.1

4.5.2010 - 16:07

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

Tested successfully, up to 1980 daN during 11 seconds.

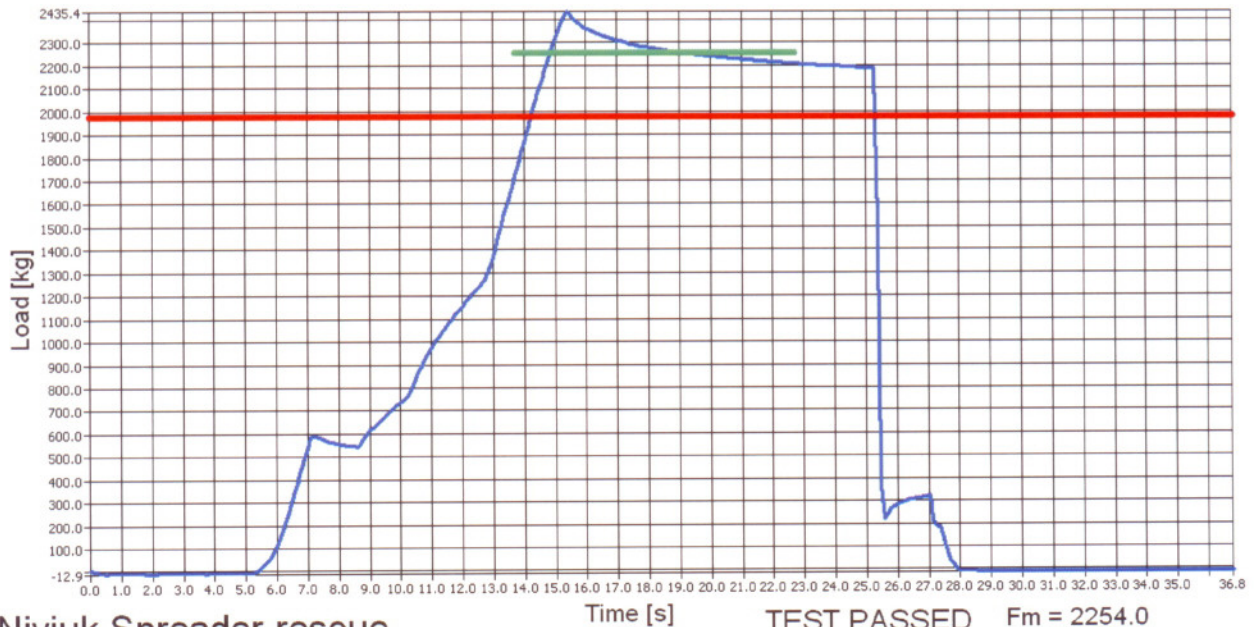


Test 3:

The load has been induced from rescue attachment.

**Air Turquoise Homologations
 LOAD DIAGRAM**

Alain Zoller
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 CH-1844 Villeneuve
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Niviuk Spreader rescue

Test Load [kg] = 1980

Time [s]

TEST PASSED

Fm = 2254.0

4.5.2010 - 16:09

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

Tested successfully, up to 1980 daN during 11 seconds.

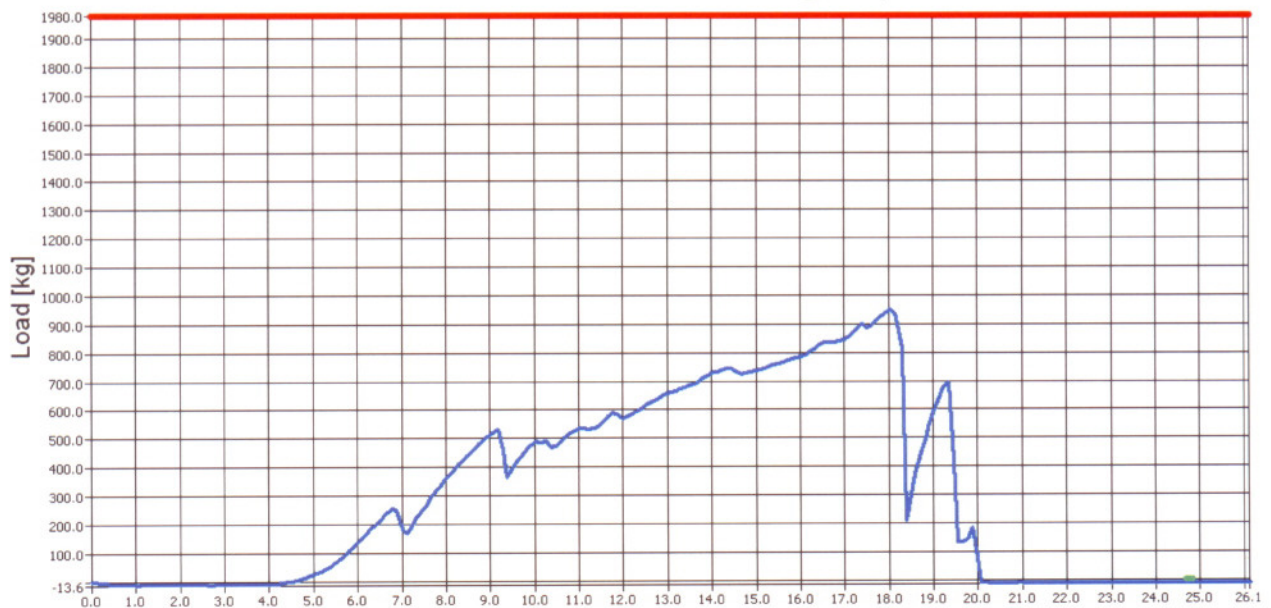


Test 4:

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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Niviuk Spreader additional

Test Load [kg] = 1980

Time [s]

TEST FAILED

Fm = NaN

4.5.2010 - 16:12

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

This is the second where it was ripped off. Maximum value is 950 daN.