

Harness Spreader Report

Inspection certificate number: MISC_205.2022

Manufacturer data:

Manufacturer name: **Nova Vertriebsgesellschaft m.b.H.**
 Representative: **Philipp Medicus**
 Street: **Auweg 14**
 Post code place: **6124 Terfens**
 Country: **Austria**

Sample data:

Name Spreader: **Tandem Spreader Hard**
 Max Load [kg]: **225**
 Serial number: **TSH001**
 Date of reception: **22.03.2022**

Test data

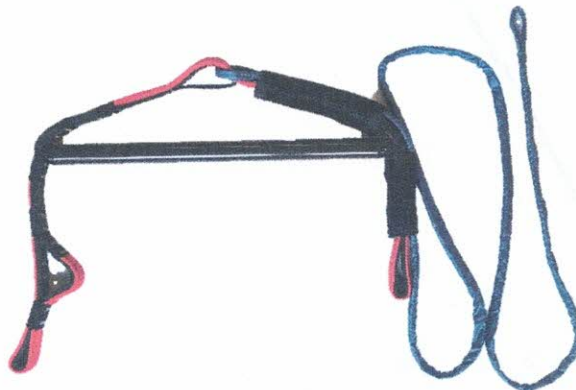
Place of test **Villeneuve**
 Date of test: **30.03.2022**
 Inspector: **Nicolas Jacquod**

Atmosphere AGL:

[C°]	20
RH [%]	33
[hPa]	999

Summary of Spreader's test

Test id	Test configuration ⁽²⁾	Top Att. Point	Bottom Attachment point	Min. Load [N]	Result
1	Induced load from the pilot and a heavy passenger (short) to the main point	Main	Pilot Short	20250	POSITIVE
2	Induced load from the pilot and a light passenger (long) to the main point	Main	Pilot Long	20250	POSITIVE
3	Induced load from the pilot and a heavy passenger (short) to the rescue point	Rescue	Pilot Short	20250	n/a
4	Induced load from the pilot and a light passenger (short) to the rescue point	Rescue	Pilot Long	20250	n/a
5	Induced load from the main point to between the spreader bar	Main	between the spreader bar	10125	POSITIVE
6	Induced load between the two ends of the integreted rescue bridle	Bridle	Bridle	24000	POSITIVE



Issue data

Place of declaration: **Villeneuve**
 Date of issue: **21.04.2022**

Managing director: **Andrea Wigger**
 Signature: 

Manufacturer	Instrument	Type no	S/N	Validity Calibration
HBM	Load Sensor GE01	1-S9M/50KN-1	31314643	04.09.2023

This signature approves the validity of the test reports if available. Air Turquoise SA, having thoroughly assessed the sample mentioned above, declares it was found conform with all requirements defined by the following norms:

Airworthiness Requirements **NfL 2-565-20**

The model has been tested according to NfL 2-565-20 point 3.2.4, up to 9G of its total weight in flight or at least 1350 daN during 10 seconds.

⁽¹⁾ Calculated values in tests reports include the value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

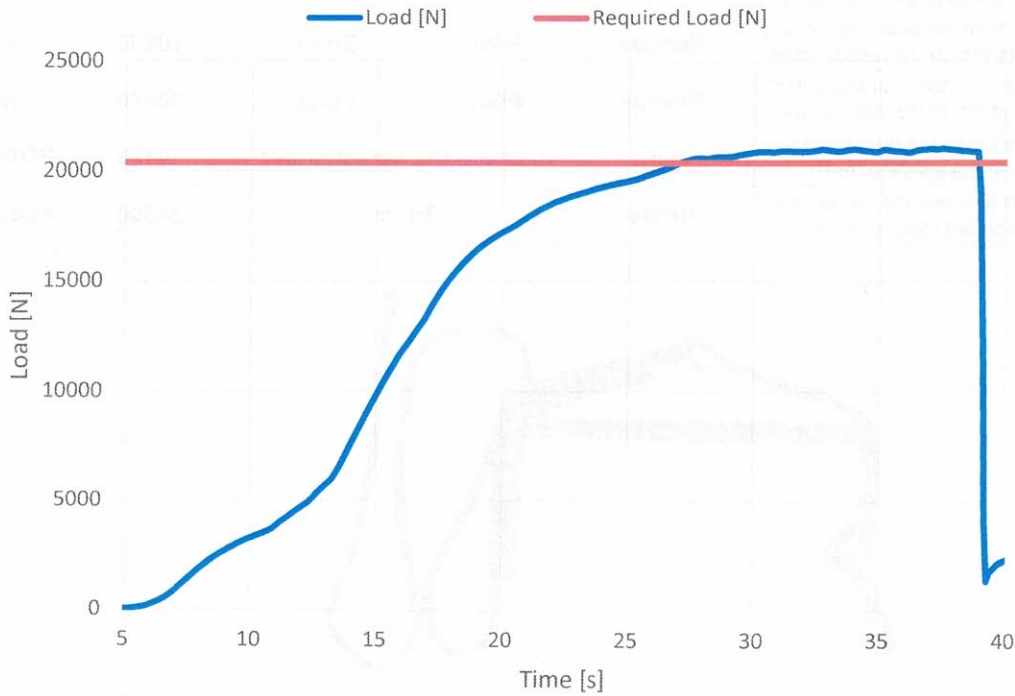
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Name **Spread Tandem Spreader Hard**

Test 1

Standard	NfL 2-565-20
Test setup	Induced load from the pilot and a heavy passenger (short) to the main point
Min. Required load [g]	9
Min. Required load [N]	20250
Min. Required duration [s]	10
Result	
Test duration [s]	11.9
Any signs of structural failure	No
Test results	POSITIVE

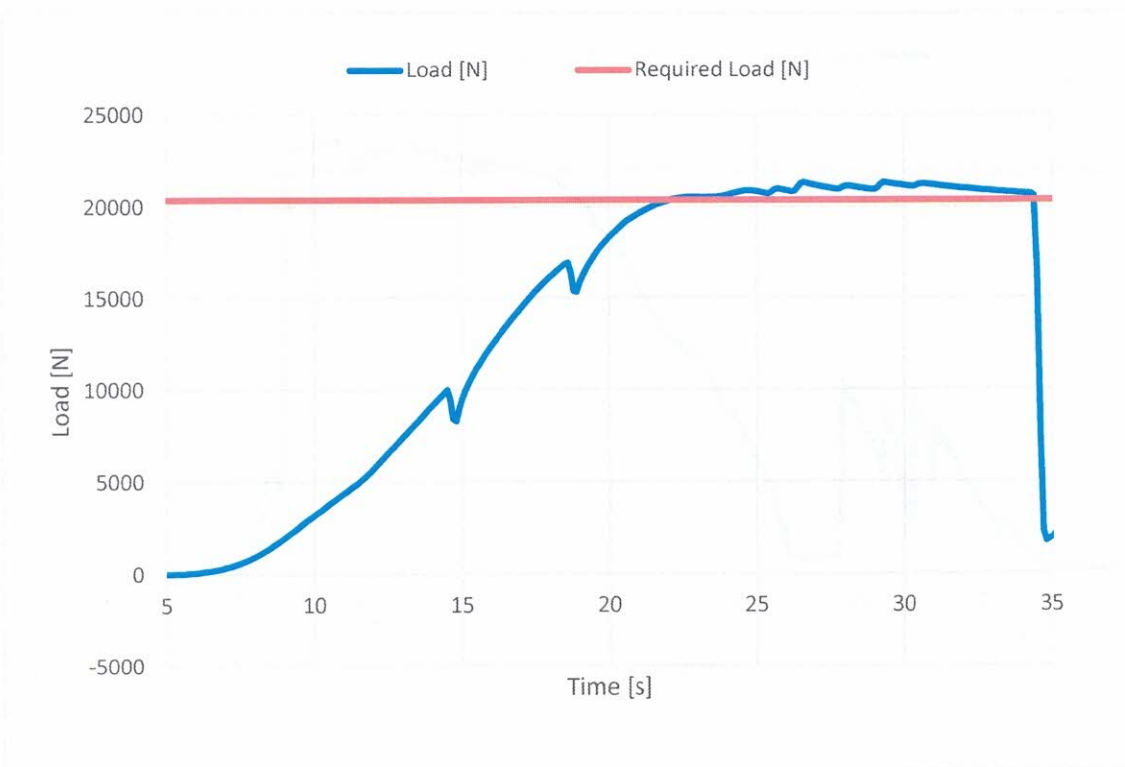


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Name **Spread Tandem Spreader Hard**

Test 2

Standard	NfL 2-565-20
Test setup	Induced load from the pilot and a light passenger (long) to the main point
Min. Required load [g]	9
Min. Required load [N]	20250
Duration [s]	10
Result	
Test duration [s]	12.4
Any signs of structural failure	No
Test results	POSITIVE

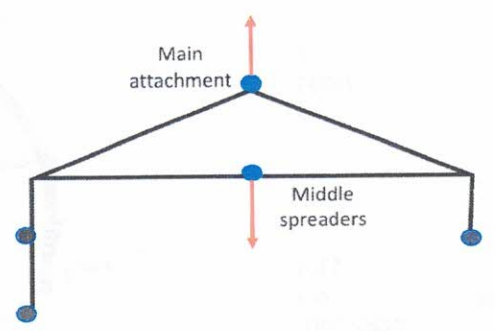
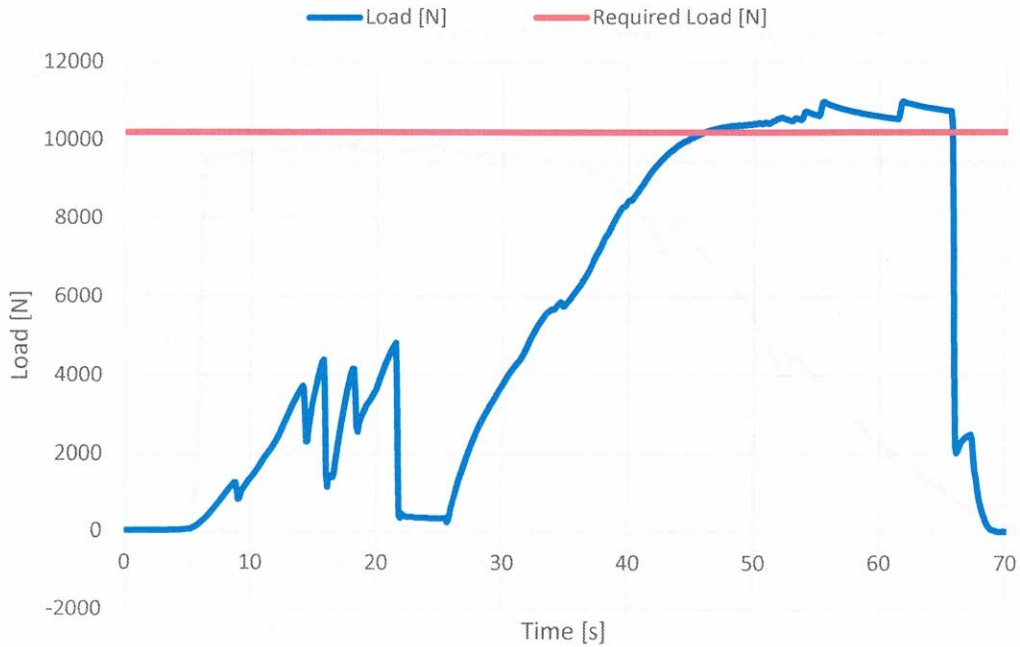


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Name **Spread Tandem Spreader Hard**

Test 5

Standard	NfL 2-565-20
Test setup	Induced load from the main point to between the spreader bar
Min. Required load [g]	4.5
Min. Required load [N]	10125
Duration [s]	10
Result	
Test duration [s]	19.8
Any signs of structural failure	No
Test results	POSITIVE

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Name **Spread Tandem Spreader Hard**

Harness Structural test

Test ID 11

Standard	NfL 2-565-20
Test setup	Connecting element for rescue
Attachment points	End point (emergency parachute)
Anchor points	Both attachment to spreader
Required load [g]	n/a
Required load [N]	24000
Minimum test duration [s]	0.3
Type of connecting element	a) two single elements
Result	
Test duration [s]	6.6
Any signs of structural failure	No
Test results	POSITIVE

