

ROPE SUITABILITY TEST

ACTSAFE POWER ASCENDER




GENERAL TEST OVERVIEW

The ActSafe rope suitability test is developed to provide guidance on which EN 1891 A ropes are suitable for personnel lifting with ActSafe Ascenders. Equipment lifting requires the use of the ActSafe Equipment Lifting Rope.

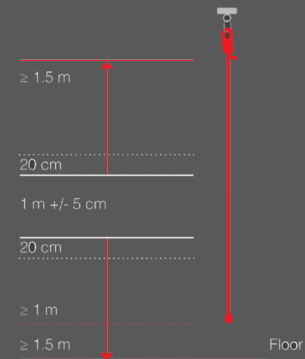
The test result will give a clear indication about grip and wear of ropes that are being tested. The criteria are that the rope is not allowed to slip or get damaged and after the test the rope should meet the inspection criteria of the respective rope manufacturer.

The test is in accordance with the Actsafe framework document. Each step is carried out according to specified criteria.

GENERAL OUTLINE:

Test can be performed on ActSafe ACC and/or ACX Power Ascenders.	ACX [SN: AX150511070]	
It's recommended to perform the test with an Ascender that is in a good condition and has been recently serviced.	see →	
Test can be performed with ActSafe Li-Ion batteries, or with ActSafe Portable Power Supply	Li-Ion battery	
Weights of 100 kg, 250 kg and 50 kg should be available for testing.	250kg /100kg / 25kg (2x)	
The height of test area should be ideally be between 5 and 7 metres.	POLYGON TRAINING CENTRE 6m	
Rope samples for testing shall be EN 1891:98-A 11 mm 5 metres (+/- 10 cm).	See Annex (by rope type) - 3types	
Pre-soaking that ropes before first use for improved performance, better grip and less wear when used with ActSafe Power Ascenders.	Pre-soaked for 24h / Dried for 5 days	
Atmospheric conditions during testing: Temperature: 20°C (+/- 5°), Relative humidity: 50 % (+/- 10%)	18°C (In tolerance), Relative humidity: 56 % (In tolerance)	

Marking of the rope in accordance. See the picture.	Each rope
Each rope sample should undergo the following five tests	See Annex



- » No severe mantle damage (i.e. rope core becomes visible) during or in between consecutive tests.
- » The rope meet the manufacturers inspection criteria after the test sequence of five individual tests

FINAL TEST RESULT	SUCCESSFUL
ANNEX 1	STATIC A 11
ANNEX 2	STATIC R44 A 11
ANNEX 3	CONTRA A 11

Pre-soaked on: 11.02.2025
Dried on: 12.2.-17.2.2025
Date of the Testing: 19.02.2025
Reported: 24.02.2025
Performed by: Stanislav Brejcha

ROPE SUITABILITY TEST OUTLINE

ANNEX 1



SINGING ROCK STATIC 11 mm [L0250RR]

SINGING ROCK STATIC 11mm [L0250RR] RED

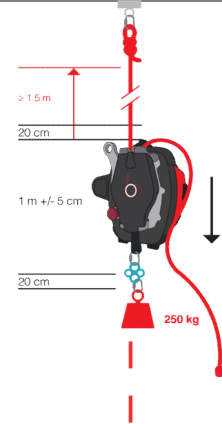
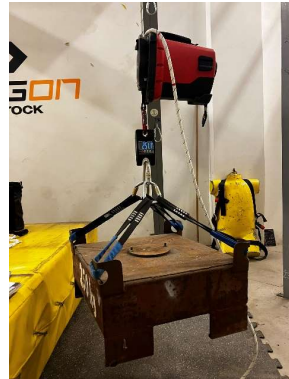
Rope samples for testing EN 1891:98-A 11 mm [5 metres (+/- 10 cm)].

1 2 3 4 5

Dynamic test (250 kg)

1.25x SWL of ACC or ACX Ascender

Load the Ascender with 250 kg	OK
Position the Ascender at the top 1 m marker	OK
Descend full speed with remote control	OK
Stop abruptly at the bottom marker	OK
Slippage of more than 10 cm is not acceptal	OK



TEST RESULT

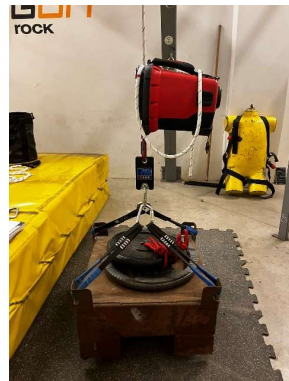
SUCCESSFUL

1 2 3 4 5

Static load test (300 kg)

1.5x SWL of ACC or ACX Ascender

Do not move the Ascender and load the Ascender with additional weight of 50 kg. plan the loading of additional 50 kg carefully. Total load becomes 300 kg. Leave it hanging for three minutes. No slippage of the Ascender is allowed, the marker should stay in same position in relation to rope guide



TEST RESULT

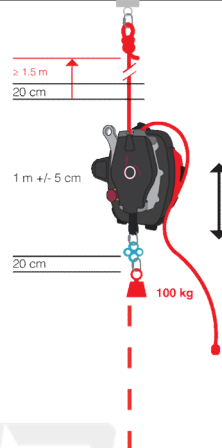
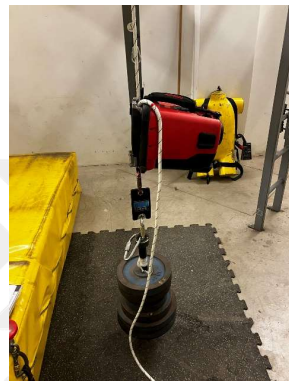
SUCCESSFUL

1 2 3 4 5

Rope wear test (100 kg)

0.5x SWL of ACC or ACX Ascender

Ascend and descend continuously for 100 cycles with 100 kg load attached to the ascender using remote control on highest speed in between the top and bottom 1 metre marker.



TEST RESULT

SUCCESSFUL

1 2 3 4 5

Dynamic test (250 kg) - see point 1

TEST RESULT

SUCCESSFUL

1 2 3 4 5

Static load test (300 kg) - see point 2

TEST RESULT

SUCCESSFUL

ROPE SUITABILITY TEST OUTLINE

ANNEX 2



SINGING ROCK STATIC R44 11 mm [L0450WG]

SINGING ROCK STATIC R44 11 mm [L0450WG] WHITE

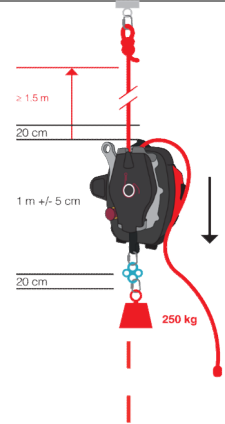
Rope samples for testing EN 1891:98-A 11 mm [5 metres (+/- 10 cm)].

1 2 3 4 5

Dynamic test (250 kg)

1.25x SWL of ACC or ACX Ascender

Load the Ascender with 250 kg	OK
Position the Ascender at the top 1 m marker	OK
Descend full speed with remote control	OK
Stop abruptly at the bottom marker	OK
Slippage of more than 10 cm is not acceptal	OK



TEST RESULT

SUCCESSFUL

1 2 3 4 5

Static load test (300 kg)

1.5x SWL of ACC or ACX Ascender

Do not move the Ascender and load the Ascender with additional weight of 50 kg. plan the loading of additional 50 kg carefully. Total load becomes 300 kg. Leave it hanging for three minutes. No slippage of the Ascender is allowed, the marker should stay in same position in relation to rope guide



TEST RESULT

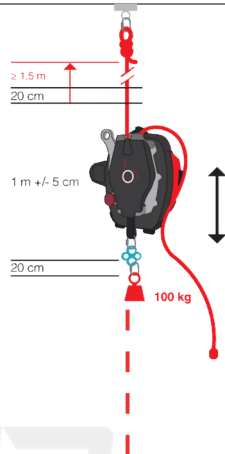
SUCCESSFUL

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Rope wear test (100 kg)

0.5x SWL of ACC or ACX Ascender

Ascend and descend continuously for 100 cycles with 100 kg load attached to the ascender using remote control on highest speed in between the top and bottom 1 metre marker.



TEST RESULT

SUCCESSFUL

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Dynamic test (250 kg) - see point 1

TEST RESULT

SUCCESSFUL

1 2 3 4 5

Static load test (300 kg) - see point 2

TEST RESULT

SUCCESSFUL

ROPE SUITABILITY TEST OUTLINE

ANNEX 3



SINGING ROCK CONTRA 11mm [L0270WX]

SINGING ROCK CONTRA 11mm [L0270WX] WHITE

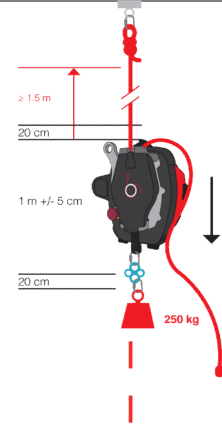
Rope samples for testing EN 1891:98-A 11 mm [5 metres (+/- 10 cm)].

1 2 3 4 5

Dynamic test (250 kg)

1.25x SWL of ACC or ACX Ascender

Load the Ascender with 250 kg	OK
Position the Ascender at the top 1 m marker	OK
Descend full speed with remote control	OK
Stop abruptly at the bottom marker	OK
Slippage of more than 10 cm is not acceptal	OK



TEST RESULT

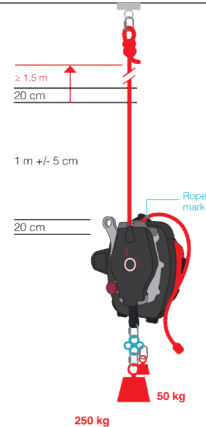
SUCCESSFUL

1 2 3 4 5

Static load test (300 kg)

1.5x SWL of ACC or ACX Ascender

Do not move the Ascender and load the Ascender with additional weight of 50 kg. plan the loading of additional 50 kg carefully. Total load becomes 300 kg. Leave it hanging for three minutes. No slippage of the Ascender is allowed, the marker should stay in same position in relation to rope guide



TEST RESULT

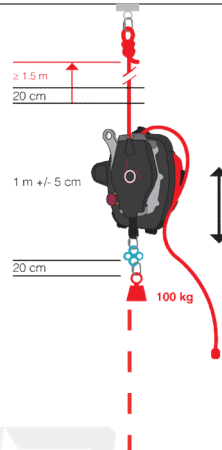
SUCCESSFUL

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Rope wear test (100 kg)

0.5x SWL of ACC or ACX Ascender

Ascend and descend continuously for 100 cycles with 100 kg load attached to the ascender using remote control on highest speed in between the top and bottom 1 metre marker.



TEST RESULT

SUCCESSFUL

1 2 3 4 5

Dynamic test (250 kg) - see point 1

TEST RESULT

SUCCESSFUL

1 2 3 4 5

Static load test (300 kg) - see point 2

TEST RESULT

SUCCESSFUL