ACTSAFE POWER ASCENDERS

ROPE CARD GUIDE

PLEASE NOTE: This guide is for general information on how to inspect ropes and does not replace any inspection information of rope manufacturers.

Inspection of rope must be conducted before use and consists of a visual and tactile inspection of the entire rope

1 General Rope Inspection

Check the condition of the sheath both visual and tactile over the full length of the rope. Ensure that there are no cuts, burns, frayed strands, fuzzy areas, or discolorations on the sheath of the rope.

2 Rope Condition

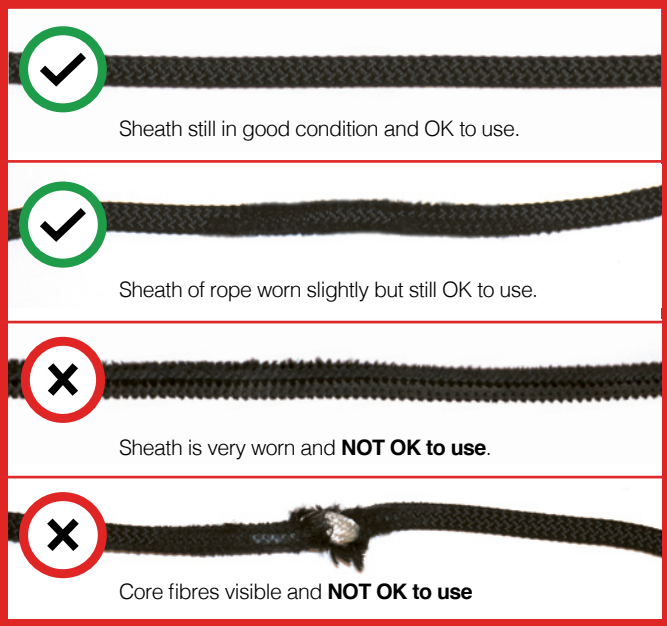
Heat damage
Do not use a rope with signs of heat damage. Signs are melting spots or hardened or melted fibres. Heat damage can be caused by exposing the rope to excessive heat, fire or sparks and also from friction.

Colour
Do not use a rope that has changed colour in anyway from the original colour as this indicates either contamination with chemicals or excessive exposure to UV light.

Thickness and density
Feel if there are no inconsistencies in the thickness and/or construction of the rope. Discard the rope in case of obvious damages. Perform an additional close up test (Point 3) in case of suspected damages in the core of the rope.

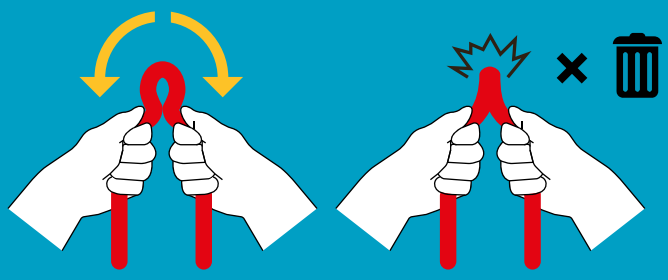
Chemical contamination
Do not use a rope that has come into contact with any aggressive chemicals, oils, solvents, acids or alkaloids. Make sure the rope hasn't been changed in any way by contact with any chemical (this can sometimes be observed by discolorations in the sheath of the rope) and make sure the rope is not oily or greasy.

Cuts, tears and excessive wear
Do not use a rope with any cuts, fraying, tears or any damage that changes the rope in any way.



3 Close up inspection

In case of any suspected damages in the core that have been observed during the general rope inspection perform a close up test on the suspected sections of the rope. Hold the rope as indicated in the drawing. Roll it from left to right and observe that is able to roll smoothly in an arch. Discard the rope in case the rope clearly bends, this indicates that the core could be damaged (crushed, cuts).



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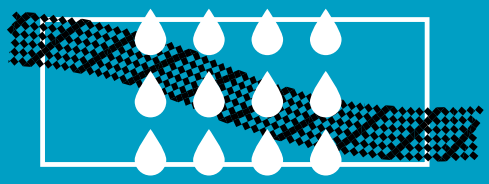
PLEASE NOTE: Pre-soaking of ropes before first use is a specific recommendation for ropes that are used in ActSafe Ascenders.

Important
Remember to soak ropes before first use.



Rope recommendations

Rope recommendations for the ACX Ascender depend on the type of application, whether personnel or equipment lifting.

Equipment lifting
The ActSafe Equipment Lifting Rope (ELR) is the only approved rope to be used in the equipment lifting system and can be ordered at ActSafe or your ActSafe distributor.

Personnel lifting
All ropes that are used for personnel lifting must meet *EN 1891 A* with a diameter of 11 mm (7/16") and should be of a solid construction. It is recommended to use ropes in ActSafe Ascenders that have passed our rope suitability test. A list of suitable ropes and the rope testing procedure, in case you want to perform your own suitability tests, can be found at our website or contact your ActSafe distributor for more information.

The reason for having this rope list is that especially softer ropes are unsuitable for the use in ActSafe Ascenders. Softer ropes should be avoided because they deform under load, grip is poor and can potentially jam the Rope Grab system.

Pre-Soaking

It is recommended that only pre-soaked ropes are used with ActSafe Ascenders. New ropes should be put in cold water <40°C (104°F) for 24 hours and dried slowly afterwards. This will make ropes more suitable for use in ActSafe Ascenders for two reasons:

1. Rope density
Pre-soaking makes ropes denser. The fibres will absorb the water and will shrink when drying.

The result is that all fibres become more densely aligned and the sheath sits tighter around the core of the rope. This will make the rope more solid and will consequently result in less mantle slippage and deformation and thereby lead to better grip in the Ascender.

2. Oil dissolution
During the production process some oil is added to the rope fibres in order to reduce the friction between the individual fibres. When soaking the rope in cold water some surface oil in the sheath of the rope will dissolve. This will contribute further to a better grip. Do not soak ropes in warm water, this will lead to greater dissolution of oil, which will have a negative impact on the rope properties.

ActSafe Rope Compatibilty Results

Brand	Type	Art. Number	Remarks
Beal	Industrie 11 mm		All Colors
Beal	Unicore 11 mm		All Colors, Only on ACC & PME
Edelrid	Performance Static 11 mm		All Colors
Edelird	Safety Super II 11 mm		Only Color 047 , Snow
Edelrid	Super Static Link Tec 11 mm		All Colors
Petzl	Axis 11 m	R074xxxx	All Colors
Skylotec	Super Static 11 mm	R-079	
Tendon	Secure 11 mm		All Colors
Tendon	Static 11 m		White only
Teufelberger	Patron+ 11 mm		All Colors
Marlow	Static LSK 11 mm		All Colors
Marlow	Diablo 11 mm		
English Braids	Tutus static 11 mm		White

Contact ActSafe or your local ActSafe Ascender distributor for more information.

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