

ROPE CARE

- Store in a clean, dry, well ventilated place.
- Avoid storing on cement floors.
- Keep away from all damaging chemicals, including (but not limited to) battery acid, bleach, or compounds containing acids or alkalis.
- Keep your rope clean.
- Heavily soiled ropes can be washed by hand or in a front loading washer. Use only clear, cool water to wash.
- Non-detergent soap may be used if necessary on very dirty ropes, but do not use soap on Duo Dry ropes.
- Protect rope from extensive exposure to high heat or UV light.
- Avoid sharp objects and edges, especially when rope is under load.
- Keep track of the history of your rope, and retire conservatively.

RETIRING YOUR ROPE

The lifespan of your rope depends on how it is used and how often it is used. As a general guideline, a rope should be retired within 4 to 5 years from its purchase date, even if it is only used occasionally. Under regular weekend use, 1-2 years is a normal lifespan. However, it is entirely possible to damage your rope so badly on its first day of use that you must retire it. You are responsible for considering the criteria below, and making the decision of when to retire your rope.

Ropes should be inspected before every use. Make it a habit to look and feel along the entire length of the rope, checking for any lump, bulge, flat spot, hourglass, or other inconsistency. It is also helpful to check questionable spots using the 'bight method.' Form a bight in 1ft sections of rope. If the rope does not curve smoothly and uniformly through the bight, the rope is damaged.

- If your rope has been damaged in any way, it should be retired immediately.
- If there is any inconsistency in the rope (lump, bulge, flat spot, hourglass, etc) it should be retired immediately. Common causes of rope damage and inconsistencies include, but are not limited to, harsh falls and contact with sharp edges.
- Visible sheath damage is a strong indication that there is damage to the rope, and is criteria for retirement.
- If your rope has come in contact with any damaging chemicals, it must be retired immediately.

ROPE SPECIFICATIONS

Trango ropes stand for safety above all else. Our commitment to third party certification and regular inspections means that you can focus on climbing, knowing that your rope is of the highest quality available. The UIAA, CE, and ISO standards Trango ropes are certified under are rigorous performance and quality standards that ensure every rope leaving our factory is ready for your adventure.

Weight and Diameter

Weight is measured in grams per meter (g/m). In general, smaller diameter ropes are more lightweight, and larger diameter ropes tend to wear longer. The smallest diameter single ropes should only be used by experienced climbers, and with much care.

Fall Rating

The UIAA test consists of a severe factor 1.8 fall over a simulated 10mm carabiner edge. Single and Double ropes must withstand a minimum of 5 successive drops while Twin ropes are tested in pairs and must hold a minimum of 12 drops. The number of actual drops a rope withstands becomes its fall rating. Keep in mind that fall ratings for different rope types are not directly comparable. Single and Twin ropes are tested with an 80kg test mass while Double ropes are tested as a single rope with a 55kg test mass. Also note that field use is quite different from lab testing. While a higher fall rating is better, the actual figure should not be taken too literally.

Impact Force

Impact Force is one of the most important considerations in selecting a rope. It refers to the amount of energy the rope transmits to the climber and protection at the moment the fall is arrested. A maximum of 12kN force is permitted for Single and Twin ropes. Impact force for Double ropes must be below 8kN. Consider Impact Force in relation to other test results. A rope with a high fall rating and low impact force can be relied upon to absorb energy better, fall after fall.

Elongation Under Load

This test measures elongation for a rope under an 80kg load – no drop, just a hang. Elongation must not exceed 10% (12% for Double or Twin ropes). The closer your rope is to the maximum, the greater its force absorption capability. However, exceeding the maximum could result in an exciting ride when you weight the rope.

Extension

Rope extension is a key measurement that dictates the happy medium between falling on a bungee cord versus a steel cable. The new UIAA test method measures actual rope elongation during a call and must not exceed 40%. This figure decreases with age, so the closer your rope is to the 40% maximum, the longer active life your rope should have. Note that when climbing on a dynamic rope near the ground, it is possible to contact the ground in a fall due

TRANGO ROPE BY THE NUMBERS

	Weight (g/m)	Falls	Impact Force (kN)	Elongation (%)	Extension (%)
8.1 Double	42.1	8	5.2	8.9	35
8.1 Twin	42.1	18	8.9	7.2	24
9.4	59.1	7	7.9	5.6	34
9.9	62.6	7	7.9	9.5	34
10.2	69.0	11	7.9	6.2	34

Types of Rope/Which rope is right for me?/Choosing Your Rope

Single Ropes
1

Single ropes are the most commonly used climbing rope. They are the simplest rope to clip and delay with because the climber clips the one available strand into every piece of protection. Tango offers single ropes from 9.4mm – 10.2mm.



Double Ropes
1/2

Double (a.k.a. half) ropes are useful when protection is necessary. They provide an added safety margin because the climber clips each rope into alternating pieces of protection. Tango offers the Amphibian 8.1mm, which is certified as both a Double rope and a Twin rope.



Twin Ropes

Twin ropes are all about versatility. They are relatively simple to use (both ropes are clipped together into every piece of protection), they make long rappels possible without a weight penalty, and the load can be shared on the approach. Tango offers the Amphibian 8.1mm, which is certified as both a Twin rope and a Double rope.



Our quality program is certified and continuously audited to most comprehensive ISO quality standards. The ropes are third party tested and certified to appropriate standards including CE and UIAA. All the performance data you see here comes directly from those third party test results. The numbers tell the real story of Tango rope. Low impact force and high fall ratings; performance and durability.

We are dedicated to your safety as a climber, and we believe you should understand the properties, construction, and limitations of your rope. Take a moment to familiarize yourself with your new rope and the recommended ways to use and care for it.

Unpacking Your Rope

Following these instructions for unpacking your rope will result in fewer twists and tangles on the way to the rope's first pitch. If you have opened a new rope before, you know how helpful it is to do it right the first time.

Tango ropes are factory coiled torsion free and neutral to give you a head start in maintaining a twist-free rope. To keep it this way, unpack your rope for the first time by unwrapping the outer rope end from around the coil. Put your arms through the center of the coil, one from each side. Next, rotate your arms over each other repeatedly as the outer ground. Take your time, and prevent the inner end of the rope from coming out of the coil or wrapping around your arm. Once the rope is uncoiled, flake the rope once or twice from end to end to remove any twists that may have found their way in.

In use, all ropes twist to some extent due to distortions along the longitudinal axis. These distortions can be caused by uneven rappel/lowering anchors, some belay devices, and ropes taking non-straight paths along the rock face when lowering. To remove any simply let the rope hang free from the rock and give it some help unwrapping. If you are at a cliff that is not a full rope length in height, you can pull the rope back and forth to remove most twisting from each half. Using a rope bag instead of coiling your rope after every use also helps prevent twists.

Your New Tango Rope



TRANGO HISTORY

Since 1991 Tango has been making gear that climbers can depend on pitch after pitch. We only make gear and rope for climbing, because that is who we are. Tango Rope is engineered to have the most desirable performance properties, a long lifespan, and above all else, the safest design possible.

Tango ropes are some of the highest quality and safest on the market. We design, manufacture and test our ropes to exceed even the most rigorous testing standards. Then, for added peace of mind, we have our products and processes audited and certified through ISO, UIAA, and

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