STERLING®

Arbor 2017

Sterling Arbor 2017

NATS Instructor, Rick Denbeau, uses the Atlas™ rigging line for limb removal.

About the ANSI Z133 Standard

This standard is intended to apply to all employers engaged in the business, trade or performance of arboriculture, including employers engaged in tree pruning, repairing or maintaining; removing trees: cutting brush; or performing pest or soil management, who hire one or more persons to perform such work. This standard serves as a reference for safety requirements for those engaged in tree pruning, repairing or maintaining, removing trees; cutting brush; or performing pest or soil management.

The ANSI Z133 Standard is a "self-certify" standard that was written as a safe best-practice guideline for employers in arboriculture operations.

Climbing ropes and sewn product are most affected by the (MBS) 24.1 kN strength requirement, and the 22.24 kN MBS is for snap hooks and carabiners Everything we mark to these strength requirements is tested using 3-sigma calculations in the reported configuration. Some minimum break strengths are labeled in basket configuration.

Static, Dynamic & Low Elongation Ropes

One of the most critical elements in the specification of any rope is its measure of elongation: how much the rope stretches under varying degrees of load.

Rope elongation is not a bad thing. For example, one good way to reduce force in a rigging system is to use a rope with greater stretch. For climbers, in the event of a slip or fall, rope elongation helps absorb impact energy that would otherwise be transferred to the climber, which could potentially be a source of injury. However, it is important to point out that even our most elastic arbor climbing lines are still low stretch, by definition.

The often-missing number for an arborist in the field is the load. Without a load referenced, the elongation percentage is all but meaningless.

There are two key metrics for evaluating rope elongation with a load:

- Percent elongation at 10% of MBS: Works well for evaluating elongation in rigging lines
- Percent elongation at 300 lb load: Best for evaluating climbing lines.

Elongation Categories, as defined by the Cordage Institute:

Low Stretch

- A rope whose elongation is greater than 6% and less than 10% at 10% of its minimum breaking strength (MBS).

Static

- A rope whose maximum elongation is less than 6% at 10% of its minimum breaking strength.
- Any rope above the 10% figure would be high stretch or dynamic.

Knots vs. Sewn Terminations

Lanyards, cows' tails, hitch cords, rope attachment points are all commonly terminated with tied knots or sewn terminations. The termination type selected is dictated by user preference or manner of use, but there are pros and cons to both:

Advantages of Sewn Terminations

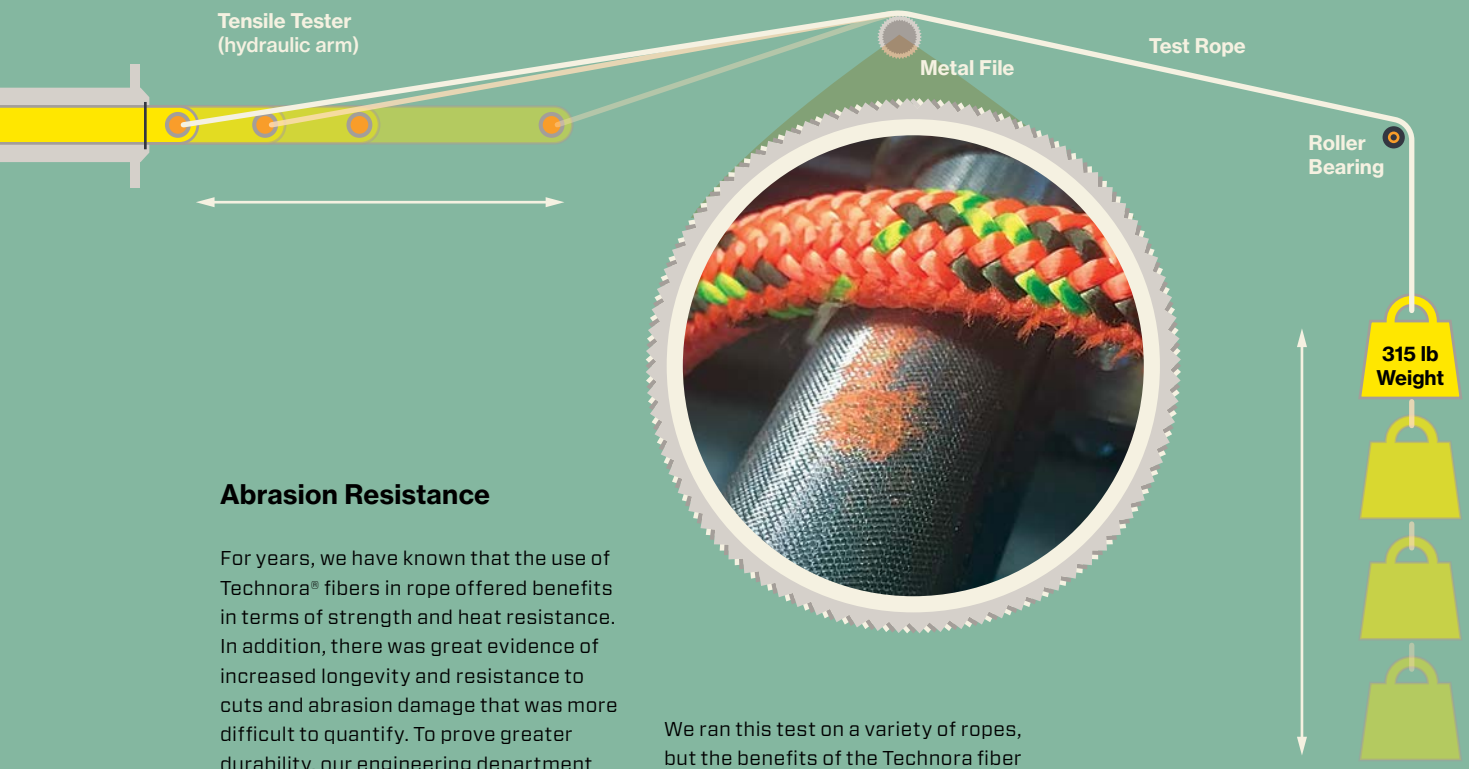
- Less bulky
- Lower reduction in breaking strength
- Uses less rope
- Eliminates user error in terminating a rope
- May help ropes to meet or maintain certain standards

Advantages of Knots

- Saves money
- More versatile

When adding a knotted termination, there is a decrease in the overall breaking strength of the rope. The amount of strength loss depends on the type of termination and the materials involved. Additionally, the breaking strength of sewn termination is largely dictated by the construction of the stitching and, for knots, by the knot selected.

Historically, knots have been shown to reduce rope strength by 15% or more, while sewn terminations generally have a maximum reduction of 15% and occasionally will maintain 100% of the overall strength of the sewn cord.



Abrasion Resistance

For years, we have known that the use of Technora® fibers in rope offered benefits in terms of strength and heat resistance. In addition, there was great evidence of increased longevity and resistance to cuts and abrasion damage that was more difficult to quantify. To prove greater durability, our engineering department devised the following test:

- A mass of 315 lb was attached to the test rope.
- This rope was run over a 150° bend, fitted with a steel file.
- The other end was attached to our hydraulic tensile tester.
- A load was raised up, dragging the rope 40 cm (160° bend) across the file, then lowered back to the ground. This process was repeated, with the file being cleaned every cycle, until the core of the rope became visible.

We ran this test on a variety of ropes, but the benefits of the Technora fiber in the sheath were best shown in the following tests:

- Our **9 mm HTP** (polyester sheath) went through 9 cycles before the core was exposed. A similar diameter rope, our **9 mm C-IV**, which has a Technora sheath, sustained 14 cycles on average.
- Similarly, our **7/16" HTP** (polyester sheath) rope lasted an average of 15 cycles.
- The **Tech11,** with a Technora sheath, went for more than 27 cycles before the core finally showed through. In high-abrasion environments, such as limbs and tree crotches, this durability keeps the equipment in service longer, and provides a higher degree of safety.

Abrasion Resistance Results

Rope Name	Number of Cycles before Core Exposure
9 mm HTP	9
9 mm C-IV	14
7/16" HTP	15
Tech11	27

Sterling arbor products, including the HTP™ and TriTech™ (pictured) are tested for resistance to abrasion.

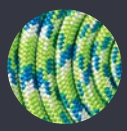
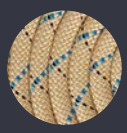
Static Ropes

Static ropes are a core element of any work-at-height system. We have been making the highest quality and innovative static ropes since our inception.

The Sterling name has become synonymous with durability and reliability across multiple industries and at all job sites. For us, making a new rope starts with understanding exactly how it will be used in a work-access or rescue scenario, what function it needs to perform, and how it will need to handle and integrate with other tools and hardware.

This is especially important for arbor work where conditions are harsh and variable, ropes are called on to perform many jobs and are expected to last as long as possible in order to be cost-effective.

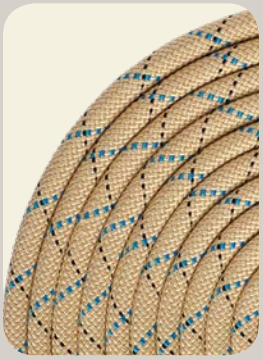
Sterling Static Rope Overview

	Rope Family	Core/Sheath Materials	Diameters	Key Characteristics
Arbor Climbing Lines	**WorkPro™** 	nylon/polyester	11.0 mm	The smooth handling and perfectly-balanced elongation of a nylon core combined with the ruggedness of a polyester sheath.
	Tendril™ 	nylon/polyester	11.1 mm	Adaptable and compatible with a wide variety of climbing setups.
	Scion™ 	nylon/polyester	11.5 mm	A fully-certified, dedicated arbor climbing line for DdRT and SRS climbing.
	Tech11™ 	nylon/Technora®	11.0 mm	Use of the aramid fiber Technora® grants unparalleled abrasion resistance for the most challenging and hazardous work environments.
Arbor Rigging Lines	**HTP™ Series** 	polyester/polyester	9 mm, 3/8", 7/16", 1/2", 5/8"	Ultra-low stretch, resistance to the elements, great strength and durability in abusive conditions.
	Atlas™ 	nylon/polyester	9/16"	A dedicated arbor line specifically designed for dynamic rigging loads.

Climbing Lines

Full specs on p. 28

Over the past few years, we've spent countless hours working with professional arborists to develop the best climbing lines possible. We've evaluated climbing styles, conditions and how ropes integrate with hardware and anchors. The result is a lineup of premium Arbor Climbing Ropes that offer reliability, ease-of-use and cover a wide variety of climbing styles such as Doubled Rope Technique (DdRT) and SRS (Stationary Rope Systems), also known as SRT (Single Rope Technique).



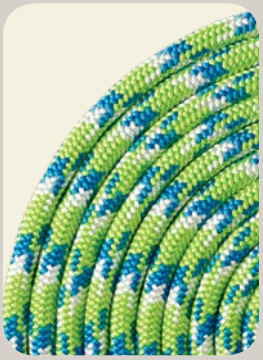
Tech11™

Diameter: 7/16"
MBS: 9,014 lb
Elongation at 300 lb: 4.1%
200', 660'
2 colors

A unique, durable and tenacious climbing line

The Tech11 is constructed with a nylon core and a tough Technora® sheath for great handling and unmatched resistance to abrasion and wear. It has been consistently rated by NATS as the most durable rope for DdRT and SRS systems, as it keeps working long after other ropes need to be retired.

NFPA 1983: General
ANSI Z133



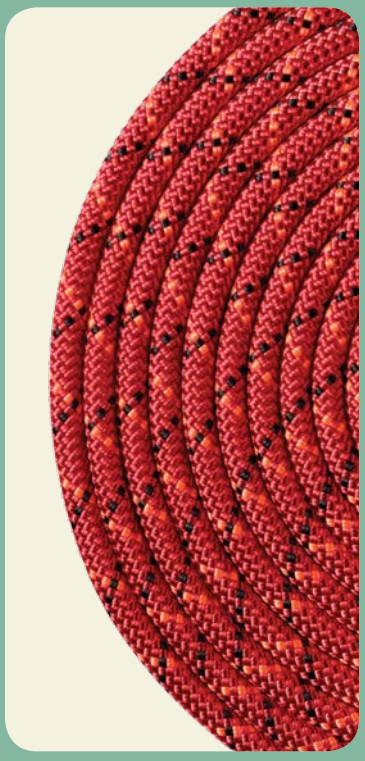
Tendril™

Diameter: 11.1 mm
MBS: 5,912 lb
Elongation at 300 lb: 4.0%
120', 150', 200', 600'
2 colors

A light, rugged option for SRS work

The Tendril's polyester sheath and double-braid construction delivers uncompromising strength no matter if the conditions are wet or dry. This light-weight, abrasion-resistant line has low elongation and a soft, balanced handling. Easy to grip with bare or through gloved hands, the Tendril runs smoothly through friction hitches or mechanical devices, and resists flattening or glazing throughout heavy use. Available with sewn terminations.

ANSI Z133



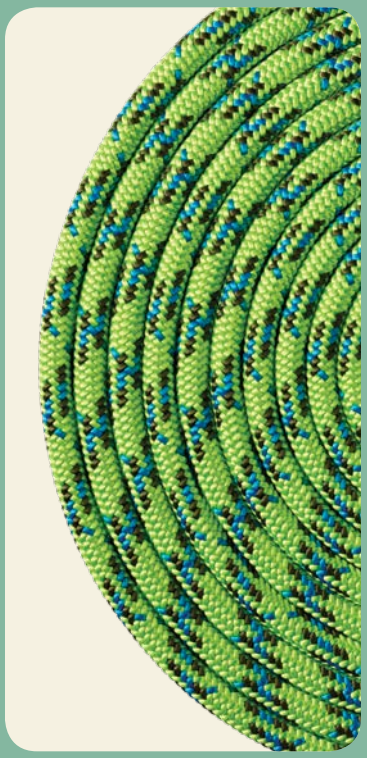
NEW 7/16" WorkPro

Diameter: 11.0 mm
MBS: 8,092 lb
Elongation at 300 lb: 3.0%
150', 200', 300', 600', 660'
5 colors

The new workhorse climbing line

Our newest climbing line benefits from our extensive experience creating mixed material ropes. The WorkPro uses a newly-designed, conditioned nylon core surrounded by a 32-carrier polyester sheath. This construction makes for a more balanced elongation between the core and sheath, so they share loads evenly, creating a rope that is stronger than other 11 mm ropes of similar fiber composition.

NFPA 1983: Technical
EN 1891: Type A
ANSI Z133



Scion™

Diameter: 11.5 mm
MBS: 5,417 lb
Elongation at 300 lb: 4.1%
120', 150', 200', 600'
3 colors

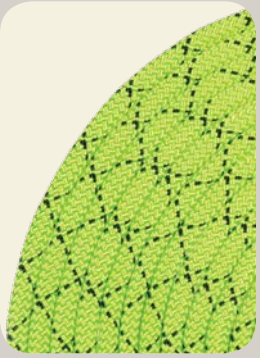
A fully-certified rope for all climbing techniques

The Scion's ability to absorb dynamic forces makes this rope ideal for DdRT, and SRS. The 11.5 mm Scion is a double-braid featuring a burly polyester 24-strand sheath, yet engineered to have decreased elongation, soft handling and easy knotability. The durable sheath is designed to handle mechanical devices and run efficiently through hardware. The Scion can be hand spliced and is also available with sewn terminations.

EN 1891: Type A
ANSI Z133

Arbor Climbing Lines

Full specs on p. 28



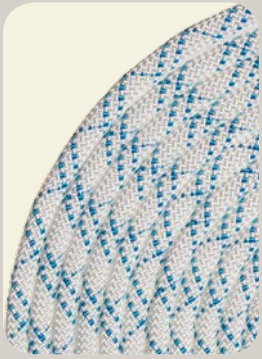
9 mm HTP™

Diameter: 9.0 mm
MBS: 4,496 lb
Elongation at 300 lb: 0.8%
150', 200', 300', 600', 660'
4 colors

The light, nimble and low stretch choice

The 9 mm HTP is a go-to static rope when you need high strength and low elongation in a lightweight package. Ideal as a super lightweight access line, the 100% polyester line is highly efficient for ascending.

Ascending on 7/16" HTP Bicolor Neon Green



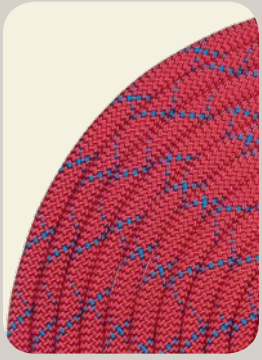
3/8" HTP

Diameter: 10.0 mm
MBS: 5,979 lb
Elongation at 300 lb: 1.4%
150', 200', 300', 600', 660'
9 colors

The low-profile, ultra-low-stretch climbing line

Occupying the 3/8" (10 mm) sweet spot, this 100% polyester rope is substantial enough to handle a variety of tasks, including ascension and rappelling, due to its durable tight sheath and firm hand. Available in Bicolor as an added safety feature for climbing in SRS systems.

NFPA 1983: Technical



7/16" HTP

Diameter: 11.0 mm
MBS: 6,856 lb
Elongation at 300 lb: 2.5%
150', 200', 300', 600', 660'
10 colors

Maximum strength; low stretch

We engineered our 7/16" HTP for improved and efficient SRS and SRT work and canopy access. Low-stretch properties and high-moisture resistance allow the 7/16" to operate consistently in wet and dry conditions. Also available in our Bicolor pattern, which provides an added safety measure for climbing in SRS systems.

NFPA 1983: Technical
ANSI Z133

Sewn Terminations

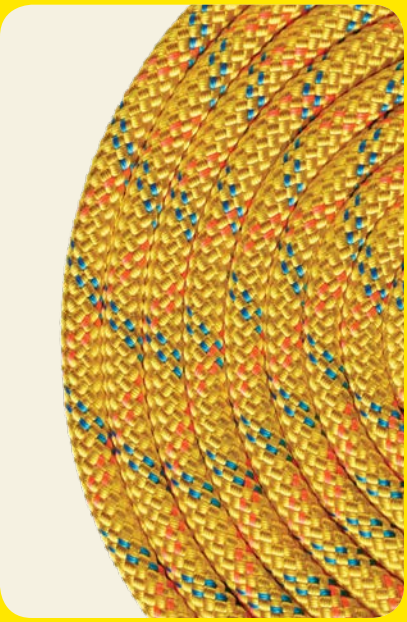
All arbor Climbing and Rigging lines are available from the factory with sewn ends.

Arbor Rigging Lines

Full specs on p. 29

Sterling's rigging lines are built for heavy rigging and hauling jobs. Constructed to deliver high strength and durability, our lines run smoothly through gear and offer different elongation characteristics to cover all your rigging needs.

Using the Atlas rigging line in a GRCS.



Atlas™

Diameter: 9/16"
ABS: 10,386 lb
3-sigma MBS: 9,565 lb
Elongation at 10% MBS: 7.0%
150', 200', 600'
2 colors

The professional's choice for dynamic rigging

Our dedicated, all-purpose arbor rigging line is made with a polyester sheath for great durability in all conditions. Its braided nylon core provides smooth handling and the ability to absorb dynamic forces. Works with a Port-a-Wrap, capstan winch or rigging blocks. The Atlas is spliceable or can be ordered with a sewn eye termination for knotless rigging.

ANSI Z133

1/2" HTP™

Diameter: 12.5 mm
ABS: 10,031 lb
3-sigma MBS: 9,081 lb
Elongation at 10% MBS: 2.4%
150', 165', 200', 300', 600', 660', 1200'
7 colors

A favorite choice for haul systems

This super-durable, low-stretch rope features a unique sheath construction that inhibits picking and stays firm for effective handling despite the load. Its strength and durability make it a great choice for specialized rigging, speed lines and hauling applications. Used in our Tree Pulling Kit™ (see p. 19).

NFPA 1983: General
ANSI Z133

5/8" HTP

Diameter: 16.0 mm
ABS: 14,361 lb
3-sigma MBS: 12,993 lb
Elongation at 10% MBS: 5.2%
150', 165', 200', 300', 600', 660'
4 colors

For big hauling jobs

A go-to for heavy-load jobs where handling and gear compatibility are of key importance. With a minimum break strength of nearly 13,000 lb and a tight sheath, the 5/8" is strong and durable enough to handle all your toughest rigging jobs.

NFPA 1983: General
ANSI Z133

Lanyards and Fliplines

Full hardware specs on p. 31

Lanyards and fliplines are critical tools for secure, safe positioning in work environments. For arbor work, we exclusively use Technora® fibers in the sheaths of our lanyards and fliplines so they are robust, stand up to abrasion and abuse, and continue to be easy-to-handle and integrate well with hardware.

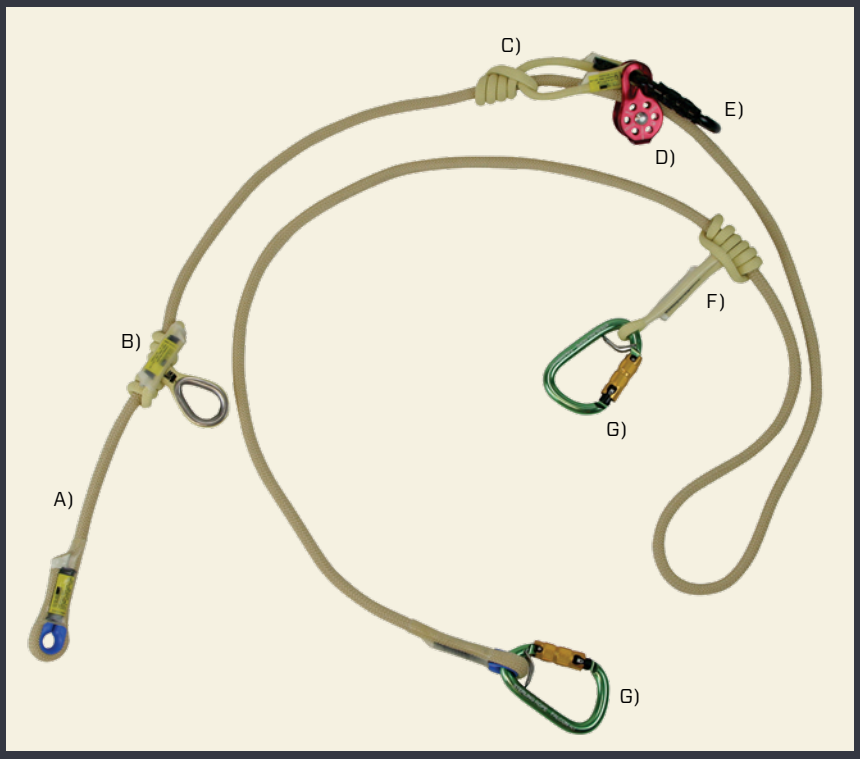
Ultimate Positioning Lanyard™

MBS: 5,418 lb
12' and 16' lengths

The Ultimate Positioning Lanyard is made with our TriTech™ rope, which features a Dyneema® "jacketed" core, covered by a 100% Technora® sheath. This high-tech blend creates a lanyard with high abrasion resistance, non-conductive properties, great handling and unusual longevity. This adjustable lanyard works in many situations with numerous connection options: "M" system configuration, single leg up off a bridge or two-in-one positioning with the benefit of one-handed operation to tend slack.

Ultimate Positioning Lanyard Includes:

A. TriTech™ Lanyard (12' and 16')
B. RIT 8 mm Thimble Prusik
C. RIT 8 mm Eye and Eye 30"
D. ISC Micro Pulley
E. Osprey™ AL Carabiner
F. RIT 8 mm Bound Loop Prusik
G. (2) Sterling Falcon Talon™ Carabiners



UP Lanyard can be used in a variety of configurations for multiple positioning options in the canopy. See pg. 15.

Shown with optional triple action aluminum snaphook.

TriTech™ Flipline

MBS: 5,418 lb
10', 12' and 16' lengths

This 11 mm rope features our unique Technora® sheath, Dyneema® inner jacket and nylon core. By combining the abrasion-resistant sheath over a high-strength inner jacket and pliable core, we have created a flipline that is strong and durable, yet still supple enough to move and position easily.

Shown with optional steel snaphook.

Tech11™ Flipline

MBS: 5,418 lb
10' and 12' lengths

Rugged positioning lanyard that provides high abrasion and heat resistance. Features a Technora sheath for durability and arc flash protection and a nylon core for smooth handling. Available with sewn eye and thimble, plus multiple connector options.

Use of Technora fibers allows positioning lanyards to hold up to rugged conditions.

Customize Your Flipline

All of our Fliplines come standard with sewn eye terminations. Further customize your flipline by requesting integrated hardware from the factory. Hardware options include:

Triple Action Snaphook

ISC Steel Snaphook

ANSI Steel Snaphook

ASD w/ pin Carabiner

Friction Hitch Cords

Full hardware specs on p. 31

Hitch cords are critical tools for all manner of jobs on an arbor worksite. Given our knowledge of rope construction and the capabilities of our in-house sewing facility, we have developed a wide variety of friction hitch cords, each designed for a specific function or user preference and all tested extensively with many rope and hitch types.

NEW Flex™ Hitch Cord

MBS: 5,418 lb
28", 30" and 32" lengths

Our newest hitch cord is born from arborists' constant requests for ever more durable gear that is also easy to manipulate in all types of weather conditions. The Flex core is made of ultra strong and water-resistant polyester fibers surrounded by a blended Technora®/polyester sheath that provides solid abrasion resistance with enough bite to hitch firmly onto ropes.

ANSI Z133

8 mm version

9 mm version

RIT Eye-and-Eyes™

MBS: 5,418 lb
28", 30" and 32" lengths (8 mm)
28", 30", 32" and 36" lengths (9 mm)

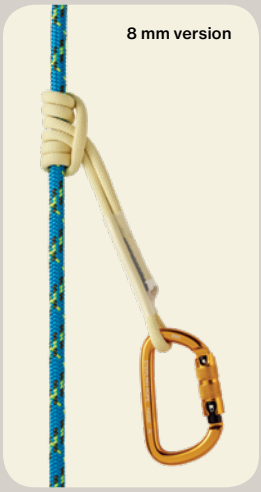
Our RIT Hitch Cords provide consistent friction in a wide variety of situations thanks to their firmer, tight Twaron® sheaths. The 8 mm version is made from our RIT 500™ cord, which provides a firm feel and solid durability.

The wider 9 mm is a 24-strand construction made with high-performing, heat-resistant Twaron and offers a softer, more flexible feel without any sacrifice in strength or grip.

ANSI Z133

9 mm RIT Eye-and-Eye used in conjunction with the Scion™ Climbing Line. HTP™ Bicolor used as access line.

9 mm RIT Bound Loop Prusik used for progress capture in the Tree Pulling Kit (see pg. 19).



RIT™ Bound Loop Prusiks

MBS: 5,418 lb
8 & 9 mm versions
16" length

Sterling created the sewn bound loop prusik over 16 years ago as an innovative answer to bulky knots. Our RIT 8 mm and 9 mm Bound Loop Prusiks are the latest extension of that product and offer arborists durable, versatile tools for rigging, climbing and lanyard adjustment.

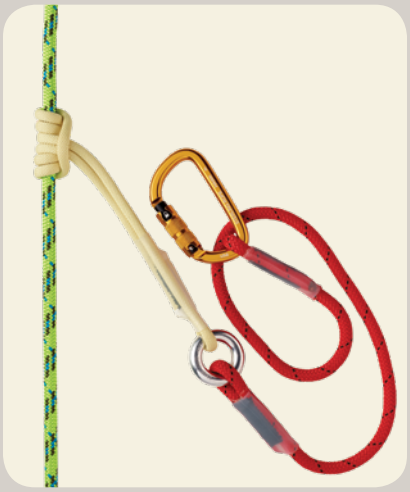
ANSI Z133

8 mm RIT Bound Loop Prusik with Ring

MBS: 5,418 lb
18" length

Our RIT Ring Prusik is a versatile tool for rigging, climbing and lanyard adjustment. Made with our RIT 500™ construction with a Twaron® sheath and nylon core for heat resistance and durability.

ANSI Z133



RIT MultiSling Prusik

MBS: 5,418 lb
54" and 58" lengths

RIT MultiSling Prusik combines our 10 mm SafetyPro™ Lanyard and our RIT 500 Bound Loop Prusik with an aluminum ring. An optimal blend of heat-resistant and high-energy absorption, our MultiSling can be used as a foot loop in an SRS Access system, as a redirect, or even as an ANSI-rated anchor point.

ANSI Z133

8 mm Bound Loop Prusik

MBS: 4,496 lb
16" and 22" lengths
6 colors (see 8 mm cord next spread)

Provides progress capture, tandem prusik belay and optimal rope grab for rope rescue. Does away with bulky, time-consuming knots and is stronger with its sewn loop construction.

Adjustable Retrievable Anchor™

MBS: 5,418 lb
60" length

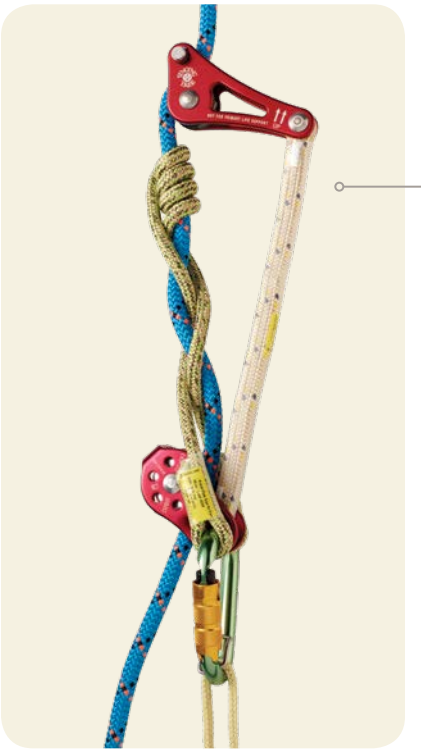
A powerful combination of our HTP Ring Sling and our RIT Ring Bound Loop Prusik, the AR Anchor allows quick adjustments when used as a primary anchor point by moving the RIT Ring Bound Loop Prusik along the Ring Sling. Because of the different-sized rings, you can retrieve the entire system from the tree once back on the ground.

RIT Thimble Prusik™

MBS: 5,418 lb
13" length

This unique prusik uses RIT 500™ construction with a Twaron® sheath and nylon core for excellent heat and abrasion resistance. The steel thimble offers a clean connection point and provides numerous options for adjustable anchors or connections.

ANSI Z133



Rope Rod used with a Rope Wrench as part of an SRS setup.

Rope Rod™

MBS: 5,418 lb
13" length

The Rope Rod is designed to be used as a tether with the Rope Wrench. Triple-layer Technora® hollowbraid construction and computerized stitching make it stiff for advancing the wrench up the rope in single-rope arbor work.

Arbor Hitch Testing Summary

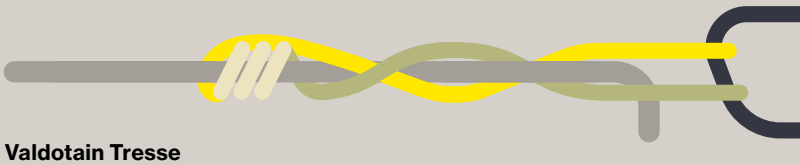
Sterling conducted a series of static and dynamic tests of popular hitches used in the arbor industry. The purpose of the testing was to provide comparative data for the arbor community about hitch performance. The data presented is for educational purposes only and is not a guarantee of performance. All tests were conducted with new products. The data concludes that different hitches on different ropes create different results, so it is important to ensure components in a climbing system are compatible.

Note: 1 kN is equal to 224.8 lb.

Static Pull Tests
This test procedure is a modified version of ANSI Z359.3 Slow Pull Test for Rope Adjusters. We created a test program that will set the hitch at 220 lb (approximate load for body weight), reduce the load to approximately 0.0 lb and then ramp to 1,000 lb. We then measured the slippage.

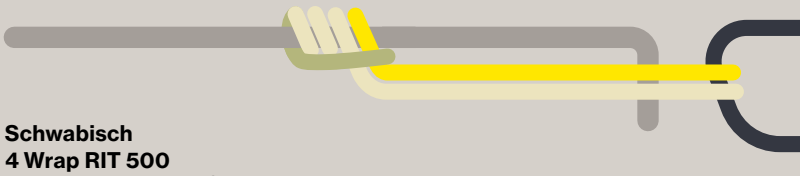
Dynamic Drop Test
These tests were conducted using a test mass of 220 lb. A fall factor 0.3 was used. Fall factor is determined by the free fall distance divided by the length of the rope in the system. The hitch is tied to the host rope and then anchored to the test mass. The hitch is set prior to drop test. The mass is then raised to the prescribed drop height and released.

For more information on hitches tested as well as expanded details about the tests performed, please go to **sterlingrope.com**.



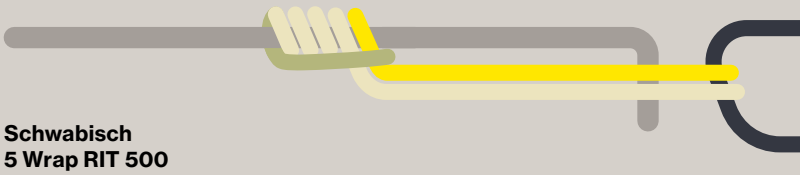
Valdotain Tresse RIT 500™ 8 mm Hitch Cord

Host Rope	Static Pull Test Results: Average Max Holding Load (kN)	Static Pull Test Results: Average Slip at 4.45 kN (cm)	Drop Test Results: Average Impact Force FF=0.3 (kN)	Drop Test Results: Average Slip (cm)
3/8" HTP™	7.75	1.3	6.11	11.3
7/16" HTP	9.29	1.3	7.43	5.5
Tech11™	16.07	1.7	4.56	9.5
Tendril™	6.80	1.7	5.30	4.4
Scion™	5.60	3.8	5.08	8.7



Schwabisch 4 Wrap RIT 500 8 mm Hitch Cord

Host Rope	Static Pull Test Results: Average Max Holding Load (kN)	Static Pull Test Results: Average Slip at 4.45 kN (cm)	Drop Test Results: Average Impact Force FF=0.3 (kN)	Drop Test Results: Average Slip (cm)
3/8" HTP	7.78	0.9	7.11	5.4
7/16" HTP	9.05	0.6	7.20	7.8
Tech11	3.78	*	4.00	26.1
Tendril	8.92	0.7	5.36	1.1
Scion	6.52	0.5	5.08	2.2



Schwabisch 5 Wrap RIT 500 8 mm Hitch Cord

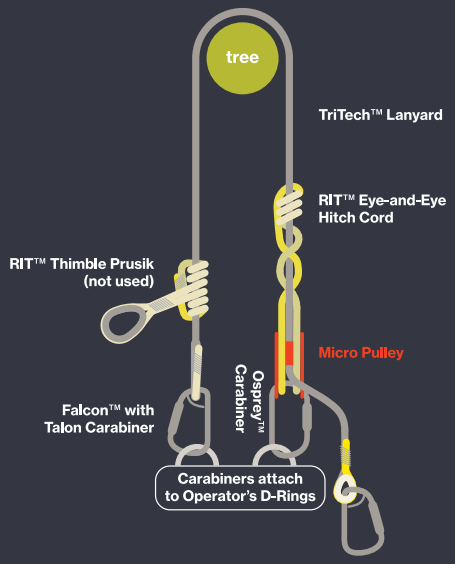
Host Rope	Static Pull Test Results: Average Max Holding Load (kN)	Static Pull Test Results: Average Slip at 4.45 kN (cm)	Drop Test Results: Average Impact Force FF=0.3 (kN)	Drop Test Results: Average Slip (cm)
Tech11	10.19	7.33	5.21	3.0

Distel RIT 500 8 mm Hitch Cord

Host Rope	Static Pull Test Results: Average Max Holding Load (kN)	Static Pull Test Results: Average Slip at 4.45 kN (cm)	Drop Test Results: Average Impact Force FF=0.3 (kN)	Drop Test Results: Average Slip (cm)
3/8" HTP	2.74	*	3.68	67.5
7/16" HTP	3.79	*	1.86	88.8
Tech11	3.96	*	1.43	**
Tendril	4.91	1.3	4.98	7.8
Scion	5.21	2.1	5.00	6.2

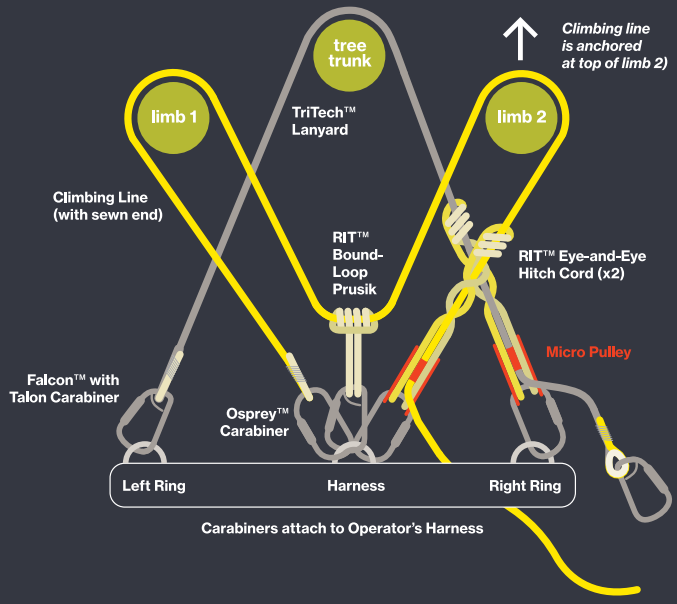
* Target load of 4.45 kN held for 60 seconds not achieved
** Did not catch—Mass hit the floor.

Approved Configurations for the Ultimate Positioning Lanyard™



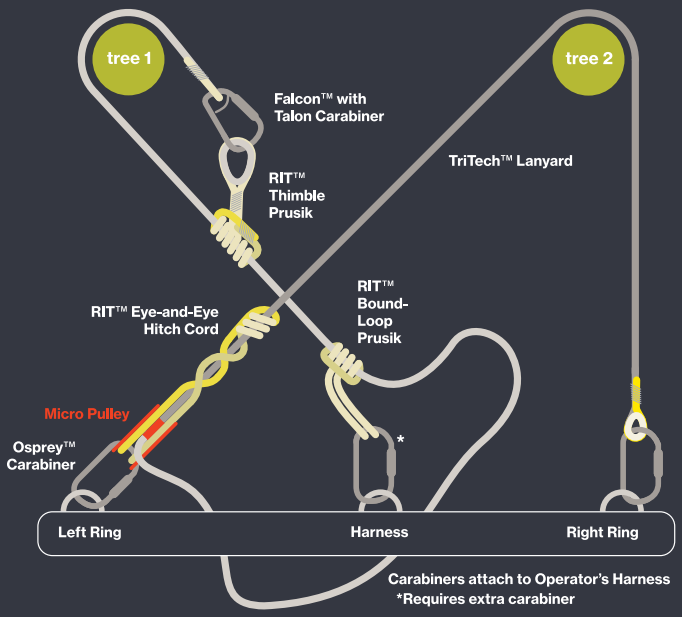
Standard Configuration

The Standard Lanyard Configuration from hip-to-hip would be considered typical "Work Positioning Lanyard" use with one Falcon AL terminal connector to one hip D-ring and RIT eye-and-eye and Micro Pulley adjuster element to the other hip.



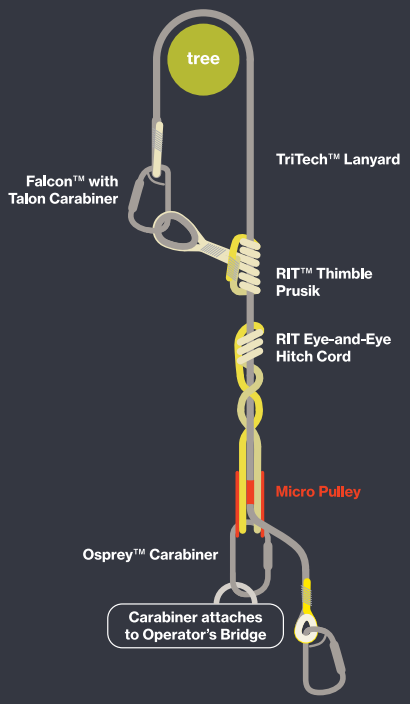
M System

This configuration allows the climber to utilize the RIT Bound Loop Prusik and the end of the climbing line as an additional positioning element for multiple tie in points and enhanced access in difficult work positions.



2-in-1 Positioning Master

This configuration gives the climber two points of contact when positioning using the RIT Bound Loop Prusik. This is beneficial when finding a comfortable work position is challenging.



Single leg up off the bridge

The single leg configuration maximizes the full length of the lanyard off the bridge of the harness and uses the Thimble Prusik for a clean connection and to prevent cross-loading of connectors.

Sewn Anchor Slings

Light, flexible and incredibly strong, our webbing is available in several types and boasts the strength needed for all manner of work and rescue applications. We've invested greatly in our in-house sewing facility, which allows us to produce certified, precision-sewn webbing products that are strong and versatile.

Full Hardware specs on p. 30

BARC™

MBS: 6,182 lb; 11,240 lb (individual loops);
11,240 lb (basket), 5,845 lb (girth/choke), 6,182 lb (end to end)
Colors: Red/Blue (103"), Yellow/Blue (60")

We designed the BARC with full-strength individual loops, which provides an adjustable rigging chain that's strong at any length. For use as a basal anchor, canopy anchor or for knotless rigging, the BARC has an MBS of 6,182 lb, while each individual loop has a strength rating of over 11,000 lb and is available in 5' and 8.5' lengths. Works well with a Port-a-Wrap or other friction-brake lowering devices.

ANSI Z133

Chain Reactor™

MBS: 3,147 lb; 5,418 lb (basket),
2,810 lb (girth/choke), 3,147 (end to end)
Standard: 41" length
Colors: Red, Neon Green, Blue or Black
Long: 61.5" length (four additional loops)
Colors: Red or Neon Green

The Chain Reactor is a multi-functional daisy chain designed with full-strength loops. The Chain Reactor is ideal as a redirect in SRS work positioning, for choking multiple branches or for knotless rigging. The Chain Reactor also comes in a Pro Construction, which has a doubled tether connection.

Sewn Anchor Slings can be used in basal configurations, in the canopy or as part of rigging setups.

Kits and Systems

Quality components are the backbone of any kit or system, and Sterling has been making the best for more than 20 years. However, simply having good pieces is not enough, they need to be thoughtfully integrated together to ensure that they function as a complete package. With input and feedback from working arborists, we've designed these kits and systems for real-world uses and job-specific functionality.

Full Hardware specs on p. 31

AZTEK Arbor Elite™

Powerful, compact and versatile pulley system

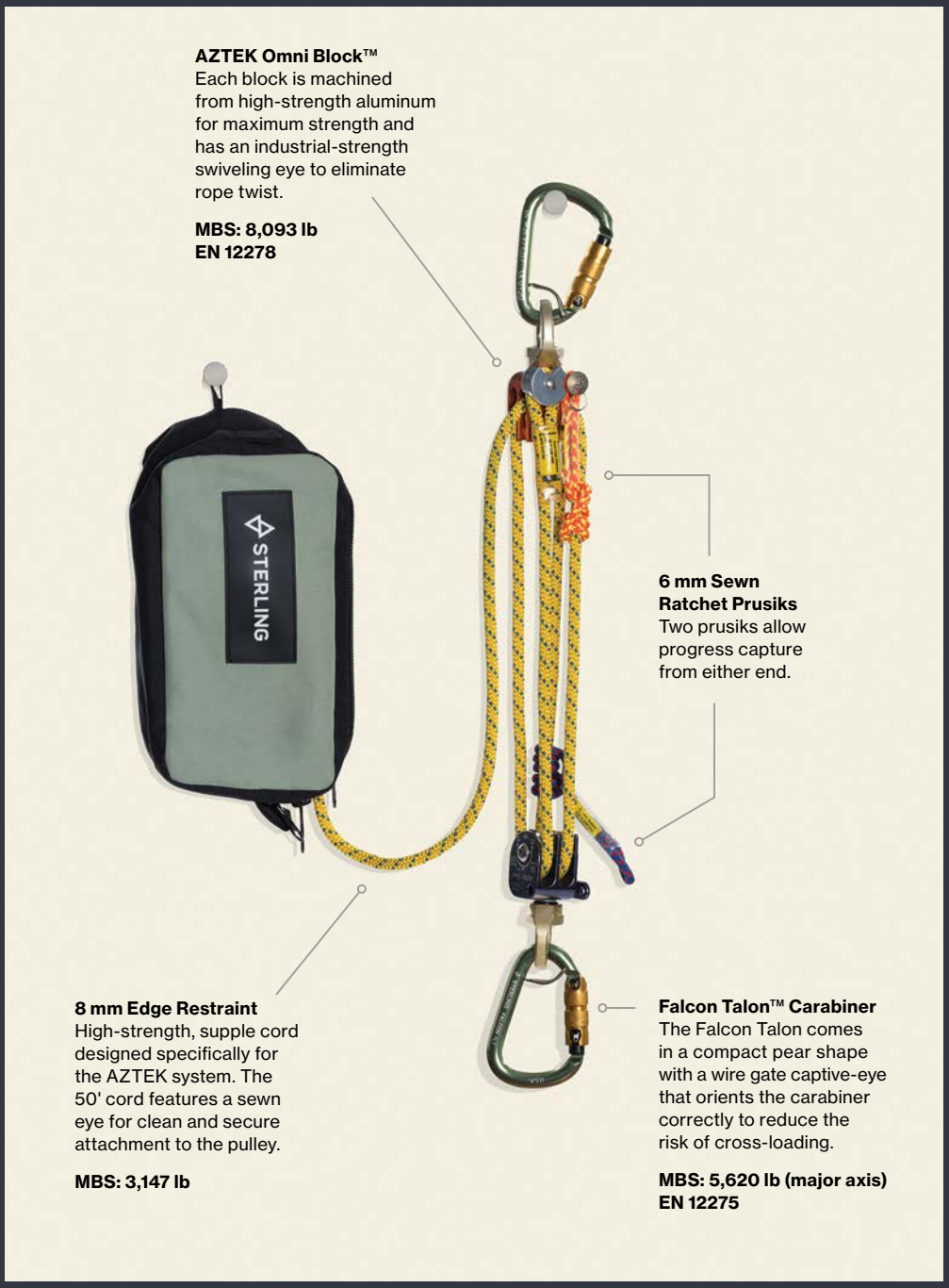
Designed for the arborist working alone or in a team, the AZTEK Arbor system is a simple, effective tool providing solid mechanical advantage for efficient, powerful rigging. This multi-directional, lightweight system is ideal for structural cabling or aerial rescue. It has unique swivel pulleys (the AZTEK Omni Blocks™) that keep loads oriented correctly when tensioned and Sterling's original 6 mm ratchet prusiks for progress capture. This system is easily transported or swapped between arborists at a work site thanks to its accessible pouch-style carry case.

Weight: 3.8 lb
MBS: 6,295 lb

System includes:

- (2) AZTEK Omni Block swivel pulleys
- 50' of 8 mm Edge Restraint with sewn eye
- (2) 6 mm sewn ratchet prusiks
- (2) Falcon Talon™ Carabiners
- AZTEK carrying bag

NFPA 1983: General Use Auxiliary System (w/o carabiners)



AZTEK Omni Block™
Each block is machined from high-strength aluminum for maximum strength and has an industrial-strength swiveling eye to eliminate rope twist.

MBS: 8,093 lb
EN 12278

6 mm Sewn Ratchet Prusiks
Two prusiks allow progress capture from either end.

8 mm Edge Restraint
High-strength, supple cord designed specifically for the AZTEK system. The 50' cord features a sewn eye for clean and secure attachment to the pulley.

MBS: 3,147 lb

Falcon Talon™ Carabiner
The Falcon Talon comes in a compact pear shape with a wire gate captive-eye that orients the carabiner correctly to reduce the risk of cross-loading.

MBS: 5,620 lb (major axis)
EN 12275

Tree Pulling Kit

Full Hardware specs on p. 31

For Powerful Rigging Setups

Our Tree Pulling Kit provides superior mechanical advantage for big rigging jobs. Stocked with components ideal for setting up tensioning lines, tree-felling operations or speed lines, this progress-capturing system handles burly rigging operations where you need power on your side. With quick precision, you can configure the components to accomplish a 3:1, 4:1 or 5:1 mechanical advantage to get the job done. Available with or without a rope and bag.

System includes:

- RIT 9 mm Eye and Eye (36")
- RIT 9 mm Bound Loop Prusik (16")
- (2) Steel AL Carabiners
- (2) SR PMP2 Pulleys
- 150' of 1/2" HTP™
- Rope Bag

Weight: 17.8 lb (w/ bag)
MBS: 5,418 lb

Steel Carabiner
Forged steel alloy in an asymmetrical D-shape for ease of use and incredible strength. Screwlock or autolock available.

MBS: 10,116 lb (major axis)
NFPA 1983: General

Double Prusik Minding Pulley
Extremely high-strength and ideal for use in haul systems. They are designed to provide efficient progress capture and are compatible with ropes up to 13 mm in diameter.

MBS: 9,892 lb

PDQ™ Bucket Evacuation System

Full Hardware specs on p. 31

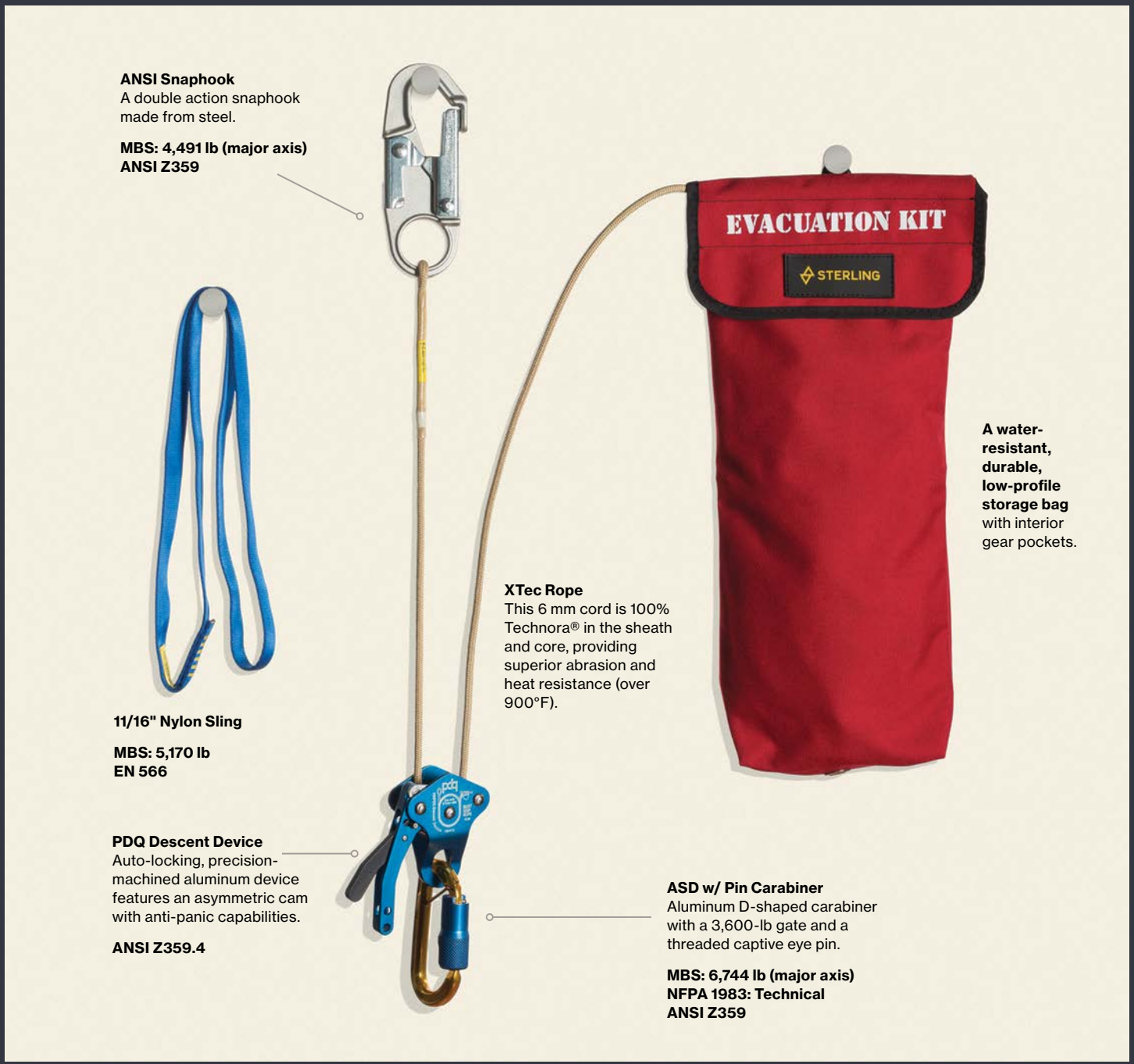
A lightweight evacuation system

The PDQ is Sterling's lightweight evacuation system for use in all work-at-height environments. The PDQ descent-control device and the 6 mm XTec™ heat-resistant Technora® rope form the core of this system whose total weight is under 4 lb. Rated for a user-load of 310 lb, the fully-assembled kit comes ready for deployment. Its slim profile means it can be stored compactly in a bucket.

System Includes:

- PDQ Device
- XTec™ Rope with sewn eye termination
- Available in 20 m and custom lengths
- ASD™ w/ Pin Carabiner
- Double Action ANSI Steel Snaphook
- 24" 11/16" Nylon Sling
- Water-resistant Storage Bag

Weight: 3.85 lb
MBS: 3,147 lb



ANSI Snaphook
A double action snaphook made from steel.

MBS: 4,491 lb (major axis)
ANSI Z359

11/16" Nylon Sling

MBS: 5,170 lb
EN 566

XTec Rope
This 6 mm cord is 100% Technora® in the sheath and core, providing superior abrasion and heat resistance (over 900°F).

A water-resistant, durable, low-profile storage bag with interior gear pockets.

PDQ Descent Device
Auto-locking, precision-machined aluminum device features an asymmetric cam with anti-panic capabilities.

ANSI Z359.4

ASD w/ Pin Carabiner
Aluminum D-shaped carabiner with a 3,600-lb gate and a threaded captive eye pin.

MBS: 6,744 lb (major axis)
NFPA 1983: Technical
ANSI Z359

Bucket Evac Kit

Full Hardware specs on p. 31

Simple and effective self-rescue kit

The Bucket Evac Kit is a compact, emergency egress system beneficial for utility personnel or arborists working alone in a lift. This kit features the intuitive F3™, our small, lightweight descent control device that has auto brake and anti-panic features. When paired with the 6.8 mm TVac™ high tenacity Technora® cord, this kit provides speedy evacuation when needed most.

Kit Includes:

- F3™ Descent Control Device
- ASD w/ Pin Carabiner
- 75' of 6.8 mm TVac with sewn eye
- Double Action ANSI Steel Snaphook
- 24" 11/16" Nylon Sling
- Water-resistant Storage Bag

Weight: 3.6 lb
MBS: 3,147 lb

Pocket Hauler Kit

Full Hardware specs on p. 31

Mechanical advantage in a compact package

Don't be fooled by the Pocket Hauler's compact appearance. With our low-stretch 8 mm Edge Restraint cord, this kit is ideal for light-duty rigging, tensioning lines and adjusting directionals, positioning, piggy back hauling systems or as a rescue system and can be set up as a 4:1 or 5:1.

Kit Includes:

- (2) SR Mini-Double Pulleys
- 50' of 8 mm Edge Restraint Cord with sewn eye
- (2) Hawk™ Autolock Carabiners
- 6 mm sewn ratchet prusik
- 8 mm Screwlink
- Carrying Bag

Weight: 3.4 lb
MBS: 4,946 lb

Kits and Systems in Action.

Rigging Hardware

More than twenty years of producing the most innovative, highest quality and best performing life safety rope and cord gives us unique insight into hardware design, construction and compatibility. Using only the highest quality materials, and designed with extensive feedback from professional arborists, Sterling's hardware is manufactured with precision to yield products with exceptional performance that integrate seamlessly with rope and gear.

Full specs on p. 31

ATS™ Device

MBS: 5,171 lb
Colors: Green and Black

A versatile, light and strong rigging and descent control device. The curved frame allows the ATS to be positioned so that the top wear bar can alternately increase or decrease friction, accommodating a wider range of ropes for single or double rope rappelling techniques. A heat-rated grommet insert keeps the device oriented correctly and helps prevent cross-loading of your carabiner. Compatible with ropes ranging from 7.5–11.2 mm.

SR Rigging Plate

MBS: 5,171 lb

Designed to easily organize your work area and provide multiple anchor points. Made from 6061-T6 aluminum with five teardrop-shaped connection holes that help center carabiners within each hole and keep multiple carabiners from overcrowding a central spot.

SR Steel Carabiner

MBS: 10,116 lb

For big loads, forged steel alloy in an asymmetrical D-shape for ease of use and incredible strength. Screwlock or autolock available.

NFPA 1983: General

Bags and Accessories

NEW SafeGuard™ Rope Protector

Length: 18"

The SafeGuard is designed for rope protection—a critical separator between rope and sharp or jagged edges that allows ropes to move freely while avoiding abrasion or cutting damage. Unique stacked layers of fabric prevent cutting on sharp edges. Removable plastic insert allows for smooth emergency lowering or can be removed for wrapping small diameter anchors.

Wicked Good Rope Wash™

Proper care extends the life expectancy of a rope and cleaning is a major component of care. Our biodegradable technical wash is available in an .83 fl. oz. package, which cleans one rope. Also available in a box of 20.

Rope Bags

Size (Color): Small (Yellow), Medium (Orange), Large (Red)

Made of durable nylon, these rope bags come equipped with top handles, a bottom grommet for drainage, a clear front pocket and adjustable shoulder straps on the medium and large sizes.

Rope bag volumes are listed on p. 31.

Rope Bag with Tarp

This Sterling Rope Bag is designed to hold 60 m of 11.5 mm diameter rope and features a padded shoulder strap, pull tabs on each end to help get it out of a pack, and releasable buckles with adjustable tightening straps to keep your rope secure. Inside the bag, the rope tarp is held in place by Velcro and features a small internal pocket to hold your keys, cell phone, etc.

Rope Tarp Plus™

Keep your rope clean with the Rope Tarp Plus. Its durable rip-stop nylon and oversized pocket allows you to slide in a flaked rope as well as shoes and harness to make it easy to transport your essentials to the work site.

Sterling Caps

Also available in mesh-style (not shown)

Sterling Brandanas

Bulk Webbing

Full specs on p. 30

11/16" Tubular

MBS: 3,000 lb
300' spool

Premium nylon tubular webbing features high-tensile strength in a narrower web. Great for use in slings.


Silver


Blue


Red


Black


Green

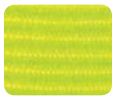
1" Mil-Spec Tubular

MBS: 4,000 lb
30' web wheel and 300' spool

The standard in 1" tubular nylon webbing is favored for its versatility and use in slings, anchor systems and hasty harnesses. Sterling's webbing offers exceptional abrasion resistance and excellent knotability.

Web Wheel Colors: Blue, Red, Yellow, Black


Black


Yellow


Green


Red


Blue


Olive Drab


Coyote Brown


Orange


Purple

1" TechTape™ Tubular

MBS: 4,000 lb
30' web wheel and 300' spool

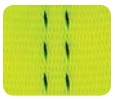
Tech Tape is our premium 1" nylon webbing and features a smooth dense weave for high strength, excellent handling and superior knotability.

Web Wheel Colors: Blue, Red, Yellow, Black


Purple


Tan


Green


Yellow


Red


Silver


Orange


Blue


Black

1" Type 18 Flat // 1" 9800 Flat

MBS: 6,000 lb // 9,800 lb
Type 18 300' spool, 9800 150' spool

Both the Type 18 and 9800 webbing are ultra high-tensile webbing with maximum durability and ideal for custom rigging applications. Type 18 has a 6000 lb MBS, and the 9800 has a 9800 lb break strength.


Blue


Yellow

Accessory and Prusik Cords

Full specs on p. 30

Our smaller, multi-use cords are well respected and sought after in their own right. Accessory cords are designed and produced with the same construction methods and high-quality fabrics as our ropes. Many cords come in a variety of precut lengths or spools for additional convenience. Our 6 mm-9 mm cords are built with the right amount of softness, yet are durable for anchor building, prusik use and other life-safety applications. The 8 mm has been specifically designed for optimum performance as a prusik or in sewn configurations.

1.5 mm

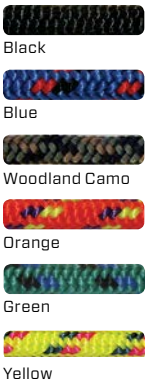
2 mm

2.75 mm

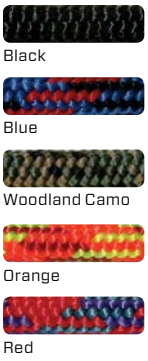
3 mm

5-8 mm certified to EN 564

4 mm



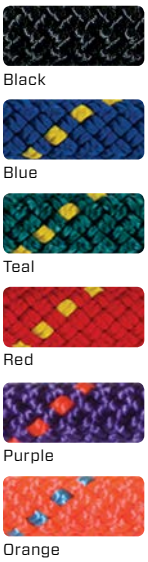
5 mm



6 mm

7 mm

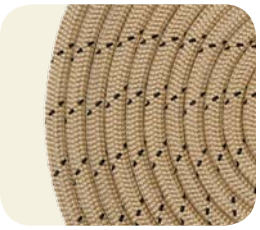
8 mm



9 mm

550 Paracord

High Tenacity Cords



High Tenacity Cords used in PDQ™ and Bucket Evac kits: see pages 20 & 21.

Some situations require high strength from a small diameter cord. Sterling developed our High Tenacity Cord line to answer these requirements. We make five distinct High Tenacity Cord models: TRC™, XTec™, V-TX™, TVac™ and PowerCord™. Each features a unique construction utilizing different combinations of high-tech materials; each cord is tuned for a given set of conditions and recommended uses.

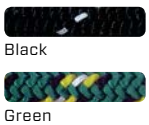
GloCords™

A reflective tracer is braided into the sheath, making these cords vibrant when light hits.

2.75 mm

3 mm

4 mm



5 mm

Technical Specs

Climbing Lines

WorkPro™

NEW 11 mm WorkPro 150', 200', 300', 600', 660' | 46, 61, 92,183, 200 m


Red


Blue


Green


White


Black

WorkPro Certified to **EN 1891 Type A and NFPA 1983 - Technical**
Also meets **ANSI Z133**.

Elongation at 300 lb (%)
3.0

Sheath Slippage (%)
0.9

MBS Rating (lb)
8,092

Weight (lb/100')
5.6

Impact Force (kN @ FF .3)
5.8

MBS Rating (kN)
36.0

Tendril™

Tendril 120', 150', 200', 600' | 37, 46, 61, 183 m


Orange


Green

Diameter (in/mm)
7/16"/11.1

MBS Rating (lb/kN)
5,912/26.3

Sewn Eye MBS (lb/kN)
5,418/24.1

Weight (lb/100')
6.1

Elongation at 300 lb (%)
4.0

Tendril Climbing Line meets **ANSI Z133**

Scion™

Scion 120', 150', 200', 600' | 37, 46, 61, 183 m


Blue


Green


Orange

Diameter (in/mm)
7/16"/11.5

MBS Rating (lb/kN)
5,417/24.1

Sewn Eye MBS (lb/kN)
4,608/20.5

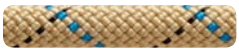
Weight (lb/100')
6.1

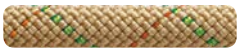
Elongation at 300 lb (%)
4.1

Scion Climbing Line is Certified to **EN 1981 Type A** and meets **ANSI Z133**

Tech Series

Tech11™ 200', 660' | 61, 200 m


Black/Blue


Neon Green/Orange

Diameter (mm)
11.0

MBS Rating (lb)
9,014

Elongation at 300 lb (%)
4.1

Weight (lb/100')
5.9

MBS Rating (kN)
40.1

Tech11 Climbing Line is Certified to **NFPA 1983: General**.

HTP™

9 mm HTP 150', 200', 300', 600', 660' | 46, 61, 92, 183, 200 m


White


Blue


Neon Green


Black

Diameter (mm)
9.0

MBS Rating (lb)
4,496

Elongation at 300 lb (%)
0.8

Weight (lb/100')
4.3

MBS Rating (kN)
20.0

3/8" HTP 150', 200', 300', 600', 660' | 46, 61, 92, 183, 200 m


Bicolor Blue


Bicolor Neon Green


Blue


Neon Green


Olive Drab


Orange


Red


White


Black

Diameter (mm)
10.0

MBS Rating (lb)
5,979

Elongation at 300 lb (%)
1.4

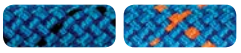
Weight (lb/100')
5.3

MBS Rating (kN)
26.6

HTP Climbing Lines are certified to **NFPA 1983**.

3/8", 7/16" **Technical**
7/16" also meets **ANSI Z133**

7/16" HTP 150', 165', 200', 300', 600', 660' | 46, 50, 61, 92, 183, 200 m


Bicolor Blue


Bicolor Neon Green


Blue


Neon Green


Olive Drab


Orange


Red


White


Yellow


Black

Diameter (mm)
11.0

MBS Rating (lb)
6,856

Elongation at 300 lb (%)
2.5

Weight (lb/100')
6.5

MBS Rating (kN)
30.5

SafetyPro™

9 mm SafetyPro 165', 200', 300', 600', 660' | 50, 61, 92, 183, 200 m

Blue

Black

Red

White

Elongation at 300 lb (%)
1.9

Sheath Slippage (%)
0.0

MBS Rating (lb)
4,271

Weight (lb/100')
3.4

Impact Force (kN @ FF .3)
4.2

MBS Rating (kN)
19.0

10 mm SafetyPro 150', 200', 300', 600', 660' | 50, 61, 92, 183, 200 m

Blue

Red

Black

White

Elongation at 300 lb (%)
4.5

Sheath Slippage (%)
0.3

MBS Rating (lb)
5,575

Weight (lb/100')
4.2

Impact Force (kN @ FF .3)
5.5

MBS Rating (kN)
24.8

10.5 mm SafetyPro 150', 200', 300', 600', 660' | 50, 61, 92, 183, 200 m

Blue

Red

Black

White

Elongation at 300 lb (%)
2.8

Sheath Slippage (%)
0.8

MBS Rating (lb)
6,114

Weight (lb/100')
4.7

Impact Force (kN @ FF .3)
5.5

MBS Rating (kN)
27.2

11 mm SafetyPro 150', 200', 300', 600', 660' | 50, 61, 92, 183, 200 m

Blue

Red

Black

White

Yellow

Elongation at 300 lb (%)
3.3

Sheath Slippage (%)
0.6

MBS Rating (lb)
7,306

Weight (lb/100')
5.1

Impact Force (kN @ FF .3)
5.8

MBS Rating (kN)
32.5

SafetyPro ropes are certified to **EN 1891**.

9 mm	**Type B**
10, 10.5, 11 mm	**Type A**

Rigging Lines

Atlas™

Atlas 150', 200', 600' | 46, 61, 183 m

Blue

Yellow

Diameter (in/mm)
9/16"/13.5

ABS Rating (lb/kN)
10,386/46.2

Elongation at 10% MBS (%)
7

Weight (lb/100')
8.4

Elongation at 300 lb (%)
2.4

Atlas Rigging Line meets **ANSI Z133**.

1/2" HTP 150', 165', 200', 300', 600', 660', 1200' | 46, 50, 61, 92, 183, 200, 366 m

Blue

Red

Orange

Neon Green

Yellow

White

Black

Diameter (mm)
12.5

ABS Rating (lb/kN)
10,031/44.6

Elongation at 10% MBS (%)
2.4

Weight (lb/100')
8.0

Elongation at 300 lb (%)
0.9

5/8" HTP 150', 165', 200', 300', 600', 660' | 46, 50, 61, 92, 183, 200 m

Blue

Orange

White

Black

Diameter (mm)
16.0

ABS Rating (lb/kN)
14,361/63.9

Elongation at 10% MBS (%)
5.2

Weight (lb/100')
12.5

Elongation at 300 lb (%)
1.4

HTP Rigging Lines are certified to **NFPA 1983**.

1/2", 5/8"	**General**

High Tenacity Cord

Name/Diameter	MBS (lb)	(kN)	CE EN 564	Fibers (core/sheath)
5.4 mm V-TX Cord™	3,372	15.0	No	Dyneema®/ Polyester
5.9 mm PowerCord™	4,428	19.7	Yes	Technora®/ Nylon
6 mm XTec™	4,721	21.0	No	Technora/Technora
6 mm TRC™	3,484	15.5	No	Nylon/ Technora
6.8 mm TVac™	3,619	16.1	No	Nylon/ Technora

Accessory/Prusik Cord (includes GloCords)

Name/ Diameter	MBS (lb)	(kN)	CE EN 564
1.5 mm	118	0.5	No
2 mm	225	1.0	No
2.75 mm	270	1.2	No
550 Cord	550*	2.4	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,169	5.2	Yes
6 mm	1,843	8.2	Yes
7 mm	2,787	12.4	Yes
8 mm	3,506	15.6	Yes
9 mm	3,102	13.8	No

*Average, not minimum

Sewn Cord

Name/Diameter	MBS (lb)	(kN)
6 mm Purcell	2,810	12.5
HollowBlock™	3,147	14.0
Rope Rod	6,744	30.0
AR Anchor	5,418	24.1
6 mm AutoBlock	2,810	12.5
7 mm Sewn Cordelette	3,822	17.0
8 mm Bound Loop Prusik	5,418	24.1
7 mm Bearer Tie-In	3,822	17.0
7 mm Head-End Litter Spider	3,822	17.0

Sewn Slings

Name	MBS (lb)	(kN)	Lengths Available (in)	CE EN 566
10 mm Dyneema® sling	5,170	23	24, 48	Yes
12 mm Dyneema sling	5,170	23	10, 24, 30, 48	Yes
11/16" Nylon sling	5,170	23	12, 24, 30, 48	Yes
1" Tubular nylon sling	5,170	23	12, 24, 36, 48	Yes
1" Flat nylon sling	11,240	50	48, 72, 96, 120	No

Sewn Webbing

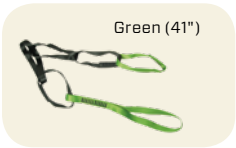
Name	MBS (lb)	(kN)
Pickoff Strap	4,496	20.0
Chain Reactor™	3,147	14.0
BARC™	6,182	27.5
1" 9800 Rabbit Runner	8,092	36.0

Bulk Webbing

Name/Diameter	MBS (lb)	(kN)
11/16" Tubular	3,000	13.3
1" Mil-Spec Tubular	4,000	17.8
1" Tech Tape Tubular	4,000	17.8
1" Type 18 Flat	6,000	26.7
1" Type 9800 Flat	9,800	43.6

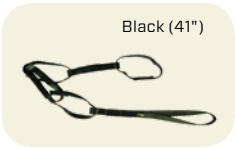
Sewn Webbing

Chain Reactor

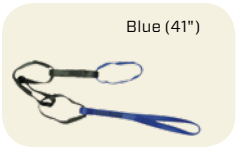


Chain Reactor

Chain Reactor (Long)



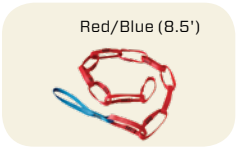
Chain Reactor



Chain Reactor


11/16" Nylon Sling

BARC



BARC


1" Tubular Nylon Sling


Pickoff Strap

Chain Reactor Pro


Dyneema® Sling

10 mm
Yellow/ White

12 mm
Blue
Orange
Black


Rabbit Runner


Nylon Sling

Carabiners

Falcon/Falcon Talon™


ASD w/ pin

Hawk™

Eagle™

Steel

SafeD

NLD


Osprey

Friction Hitch Cords

Name/Diameter	MBS (lb)	(kN)
Flex™ Hitch Cord	5,418	24.1
8 mm Bound Loop Prusik	5,418	24.1
8 mm RIT Bound Loop Prusik	5,418	24.1
9 mm RIT Bound Loop Prusik	5,418	24.1
RIT Eye and Eye (8 & 9 mm)	5,418	24.1*
RIT Thimble Prusik	5,418	24.1
RIT MultiSling Prusik	5,418	24.1
RIT Footlock Sling	5,418	24.1

* Basket MBS

Sewn Eye

Name/Diameter	MBS (lb)	(kN)
Scion™	4,608	20.5
Tendril™	5,418	24.1
Atlas™	8,318	37.0
6 mm XTec™	3,147	14.0
6 mm TRC™	3,147	14.0
6.8 mm TVac™	2,922	13.0
7 mm ACC	2,473	11.0
8 mm PER	3,147	14.0
9 mm ACC	2,922	13.0
3/8" SuperStatic2™	5,013	22.3
7/16" SuperStatic2	5,845	26.0
1/2" SuperStatic2	7,913	35.2
5/8" SuperStatic2	10,521	46.8
9 mm HTP™	4,226	18.8
3/8" HTP	5,328	23.7
7/16" HTP	5,845	26.0
1/2" HTP	7,823	34.8
5/8" HTP	11,221	49.9
9 mm SafetyPro™	3,372	15.0
10 mm SafetyPro	5,575	24.8
10.5 mm SafetyPro	5,418	24.1
11 mm SafetyPro	5,418	24.1
Marathon™ Lanyard	3,822	17.0
Y-Knot™ Lanyard	5,170	23.0
Tech11™	5,957	26.5
TriTech™	5,418	24.1

Lanyards and Fliplines

Name	MBS (lb)	(kN)
Tech11 Flipline	5,418	24.1
TriTech Flipline	5,418	24.1
UP Lanyard	5,418	24.1

Rope Bags

Name	Volume (L)	Rope Capacity
Small	17.0	200' (of 3/8" dia.)
Medium	31.0	200' (of 1/2" dia.)
Large	45.0	400' (of 1/2" dia.)
Pico	1.5	50' TRC, two Pico Pulleys, two carabiners

Carabiners

Name	Major Axis (lb)	Minor Axis (lb)	Open Gate (lb)	NFPA 1983	CE EN 12275
ASD w/ pin*	6,744	3,597	2,023	Yes	No
Eagle AL	5,620	1,574	1,574	No	Yes
Eagle SL	5,620	1,574	1,574	No	Yes
Falcon AL	5,620	1,574	1,574	No	Yes
Falcon ALT	5,620	1,574	1,574	No	Yes
Falcon SL	5,620	1,574	1,574	No	Yes
Falcon SLT	5,620	1,574	1,574	No	Yes
Hawk AL	6,295	1,574	1,574	No	Yes
Hawk SL	6,295	1,574	1,574	No	Yes
Osprey AL	5,171	1,574	1,349	No	Yes
Osprey SL	5,171	1,574	1,349	No	Yes
SR Steel AL**	10,116	3,597	4,047	Yes	Yes
SR Steel SL	10,116	3,372	4,047	Yes	No
SafeD TL	6,295	2,473	2,023	Yes	No
SafeD AL	6,295	2,473	2,023	Yes	No
SR NLD	6,519	2,248	2,023	No	No

* ASD w/ pin meets ANSI Z359.12
**SR Steel AL also meets ANSI Z359.12

Pulleys

Name	End-to-End MBS (lb)	Sheave MBS (lb)	Max Diameter (in)	NFPA 1983	CE EN 12278
AZTEK™ Omni Block	8,093	2,023	5/16	No	Yes
Micro	5,395	2,698	7/16	No	Yes
SR MSP	3,822	1,911	7/16	No	Yes
SR MDP	4,946	1,236	7/16	No	Yes
SR PMP	8,093	4,047	1/2	Yes	No
SR PMP2	9,892	2,473	1/2	Yes	No
SR Rescue Pulley	7,194	3,597	1/2	Yes	No
Pico™ Double Pulley	- -	- -	11/32	No	No
Single Configuration	4,496	2,248			
Double Configuration	6,744	1,686			

Snaphooks

Name	MBS (lb)	ANSI Z359	CE
Triple Action Aluminum	6,070	No	Yes
Double Action Steel	6,070	No	Yes
ANSI Double Action Steel	4,991	Yes	No

Descent Control and Rigging

Name	MBS (lb)	NFPA 1983
ATS™ Device	5,171	No
SR Swivel	8,093	Yes
SR R8™	4,945	No
Rig Plate	5,171	Yes

Pulleys

MSP | MDP | SR Rescue Pulley | SR PMP | SR PMP2 | Pico Double Pulley | AZTEK Omni Blocks | Micro Pulley

Hooks

ANSI Steel | Steel | Triple Action

Rigging Hardware

ATS™ Device | SR R8™ | Rig Plate | SR Swivel

Certifications

- It's important to purchase your life-safety equipment from respected and certified manufacturers. Part of understanding this significance is knowing whether products are certified, what the certifications mean and how they are applied to each product. As an ISO 9001 Company, Sterling is proud to offer products that are third-party tested and meet CE, NFPA, and/or ANSI Standards on life-safety equipment.
- CE EN 1891 certifies personal protective equipment for the prevention of falls from a height; specifically low-stretch kernmantle ropes used for climbing/access lines. Manufacturing to the CE standard ensures products meet certain quality criteria for climbing and work positioning.
- ANSI Z133 is the American National Standard Institute's safety requirements for Arboricultural Operations. Compliance to this standard is voluntary, but the intent of the standard is to guide arborists in safe work habits.
- NFPA 1983 is the National Fire Protection Association's "Standard for Life-Safety Rope and Equipment for Emergency Service." This standard requires that a manufacturer is certified to ISO 9001 and specifies performance, labeling, user instruction and test method criteria for rope, connectors, descent devices, anchors and systems. Though not directly related to arboriculture activity, third-party testing and certification of our product to this standard ensure that our manufacturing and quality control processes deliver products and systems that work well in technical rope and life-safety applications.

Sterling Rope is a certified ISO 9001 company.

Sterling Rope is a certified ISO 9001 company and all of our certified products must pass third-party testing to the standards we identify. Sterling also maintains a rigorous in-house testing program. All minimum break strength (MBS) numbers listed here are 3-Sigma MBS or are listed at the corresponding standard's minimum requirement. A 3-Sigma MBS is based on a statistical analysis of the breaking strengths of a product and is reported at three standard deviations below the average breaking strength.

Safe Working Load (SWL) is the designated maximum working load for a piece of equipment or system based off a predetermined safety margin and the equipment's minimum breaking strength. Agencies and/or users should establish their own SWL guidelines for individual components and for rigged systems.

The specifications listed here are believed to be correct at time of printing. We reserve the right to make modifications or corrections.

For the most up-to-date technical specifications please contact us or visit sterlingrope.com

Trademarks

Disclaimer

Technical rope and tree work are potentially hazardous activities and cannot be made safe. Any person using Sterling equipment in any manner is personally responsible for learning the proper techniques involved, and assumes all risks and accepts full and complete responsibility for any and all damages or injuries of any kind, including death, which may result from misuse of any Sterling product.

NATS Instructor, Rick Denbeau, using the Scion™ Climbing Line for DdRT climbing.

Sterling Rope Company, Inc. 26 Morin Street Biddeford, ME 04005-4413 U.S.A. **sterlingrope.com**

+001 (207) 282-2550
arbor@sterlingrope.com

Our Commitment to You

We guarantee our products to be free of defects and stand firmly behind the excellence of our products' design, engineering and fabrication. When used responsibly and properly, in normal and recommended conditions, Sterling products will endure, perform and wear up to world-class standards. However, no rope lasts forever. Climbing, technical work and fire exposes ropes to abrasion, fatigue, sunlight, heat and constant loading. Severe falls, lack of protection over an edge, exposure to chemicals, excessive temperatures or improper use will shorten the lifespan of any rope. These scenarios stress the importance of checking and protecting your rope. Sterling reserves the right to inspect your rope before replacing it or refunding your money. We are committed to supporting you in your climbing or work endeavors and to maximizing your overall experience with each Sterling product through the best possible product quality and customer service.

Arbor 2017