

FIRE / RESCUE / TOWER



STERLING

TACTICAL / ROPE ACCESS / ARBOR



**WORK + RESCUE**

# Our Pledge is Simple

We have committed to ourselves and to those who use and rely on our products that we'll never compromise quality; we'll never stop innovating real-world solutions, and we'll deliver the most reliable equipment possible.

At Sterling, we're proud to design and build all of our life-safety rope under one roof in Biddeford, Maine. We made a commitment to be a US manufacturer, to keep all our processes in-house and, as much as possible, work with US-based partners and vendors. By designing and producing here, under one roof, we can assure a better outcome, more consistency and higher quality.

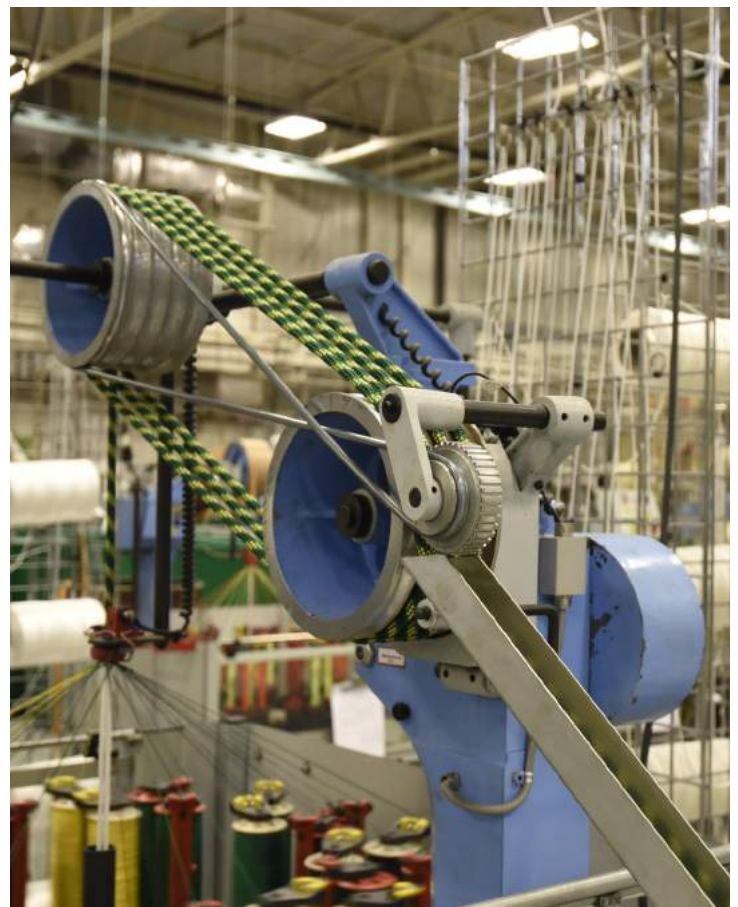
## Key Certifications

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 3rd party tested and meet CE, NFPA, and/or ANSI Standards on life-safety equipment.

- **EN 1891** certifies personal protective equipment for the prevention of falls from a height; specifically low-stretch kernmantle ropes for climbing/access lines. Manufacturing to the CE standard ensures products meet certain quality criteria for work at height.
- **ANSI Z359** is the American National Standard Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components. The standard addresses the variety of equipment being developed in the rapidly growing field of Fall Protection.
- **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. 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. Look for certifications at [UL's Certification Online Directory at ul.com/database](http://ul.com/database).
- **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.
- **Z459** is the American National Standard Institute's safety requirements for Rope Access Systems and sets forth accepted practices for rope access work.



**Proudly  
Made in U.S.A.**  
with U.S. and Globally  
Sourced Material



# Contact Sterling

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## Mailing Address

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# Ropes

We've been innovating and creating the finest rope products for more than 25 years. Our current rope line is a diverse mix of products, each thoughtfully designed to meet the needs of the user and meticulously manufactured to the highest quality standards.



## 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.

### 12.5 mm Static Life Safety Rope Knot Comparison\*

Knot Type	Strength Lost
Double Fisherman	27%
Butterfly	30%
Figure 8 on a Bight	31%
Bowline	37%

**NEW** The Atlas Sewn Eye, see page 17

\*As tested by Cordage Institute Technical Director, Dave Richards

## Rope Care



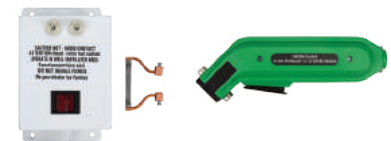
### Rope Wash

Proper care extends a rope's life expectancy and cleaning is a major component of care. Our biodegradable technical wash is available in a pre-packaged, 0.83 fl. oz. shot and provides enough to clean one rope. Available in boxes of 20 individual packets.



### End Labels

These are replacement heat-shrink tubes to re-label your rope after you cut the ends. Each packet comes with glue instructions for application. You can also write on the tubes with permanent marker to keep track of length and lot number from the original label. Comes in packets of 6 and three sizes: 5mm - 8mm, 9mm - 11mm and 12mm - 18mm. Source of heat not included.



### Hot Knife

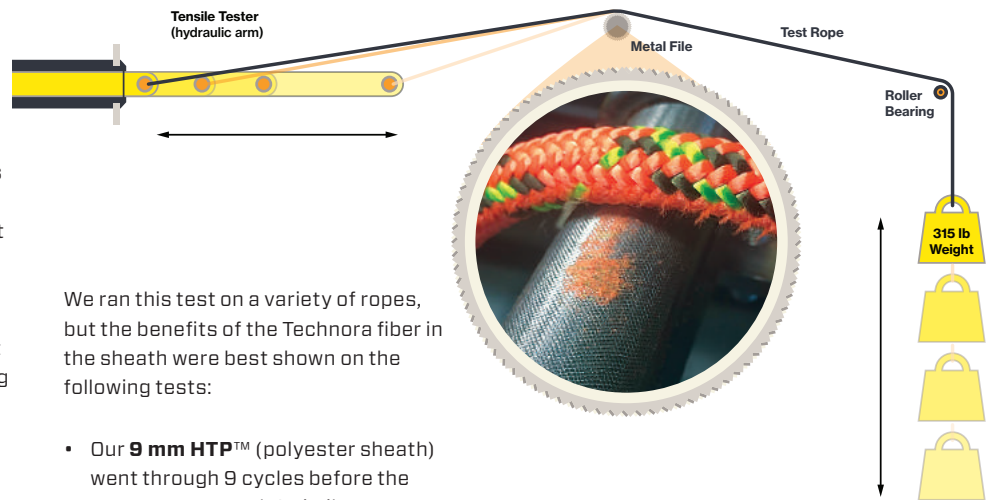
Hot knives are the best and most effective way to cut ropes cleanly and efficiently so they maintain strength and longevity. We have developed two versions of hot knives: a handheld unit that is good for mobile uses and a bench-mounted version that we made specifically for our factory use, which can cut a large quantity of rope quickly and efficiently. Blade Sold Separately.

# Rope Testing

## Abrasion Resistance

For years we have known that the use of Technora® offered benefits in terms of strength and heat resistance. It was also known that the use of Technora fiber offered an increased resistance to cuts and abrasion damage, but we wanted to be able to quantify that benefit. To do this, 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 degree bend, which was fitted with a steel file at the bend.
- The other end was attached to our hydraulic tensile tester.
- The load was raised up, dragging the rope 40 cm (160 degree 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 on 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 steel structures, this durability keeps the equipment in service longer.

## Abrasion Resistance Results

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

For Tech11, see page 16.










# Static Ropes

**Low-elongation or static ropes are a core element of any work-at-height system. We have been making the highest quality and most innovative static ropes for decades.**

The Sterling name has become synonymous with durability and reliability across multiple industries at all job sites. For us, making a new rope starts with understanding how exactly 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.

Armed with extensive feedback from expert technicians in the field, we can engineer a static rope that meets a very specific set of requirements. We currently produce **nine lines of static ropes**, each designed, built and rigorously field tested to Sterling standards.

## Sterling Static Rope Overview

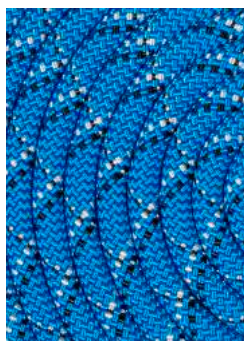
Rope Family		Materials	Diameter	Key Characteristics
<b>SYNC</b> p. 7		Polyester/Nylon	11.0 mm	The Sync is a high strength premier static rescue rope in a 11mm lightweight package. Certified to NFPA General Use
<b>HTP™</b> p. 8		100% Polyester	9 mm, 10.5 mm 3/8", 7/16", 1/2", 5/8"	Ultra-low stretch, resistance to the elements, great strength and durability in abusive conditions.
<b>SuperStatic2™</b> p. 10		100% Nylon	3/8", 7/16", 1/2"	Innovative sheath construction provides a smoother braid, reducing overall rope stiffness for ease of handling and gear compatibility, while maintaining strength and great durability.
<b>WorkPro™</b> p.11		Polyester/Nylon	3/8", 7/16" and 1/2"	The smooth handling and perfectly balanced elongation of a nylon core combined with the ruggedness of a polyester sheath.
<b>SafetyPro™</b> p. 12		100% Nylon	9 mm, 10 mm, 10.5 mm, 11 mm	Carefully engineered kernmantle construction makes for a static work line with a small but important amount of stretch. Favored for rope access and rescue professionals.
<b>Scion™</b> p. 14		Polyester/Nylon	7/16", 1/2"	Fully-certified dedicated double-braid arbor climbing lines for MRS and SRS climbing. Available with sewn terminations.
<b>Element</b> p. 14		Polyester/Nylon	12.8 mm	The Element is abrasion-resistant and durable, offers exceptional handling and hitchability, has zero sheath slippage and is spliceable.
<b>Atlas™</b> p. 15		Polyester/Nylon	1/2", 9/16", 5/8", 3/4"	Double-braided arbor rigging lines that offer a tightly braided sheath to prevent picking, easy handling and massive strength.
<b>Tech Ropes</b> p. 16		Technora®, Spectra® and Nylon	8 mm, 3/8", 7/16", 1/2"	Use of the aramid fiber Technora grants unparalleled heat and abrasion resistance for the most challenging and hazardous work environments.



**NEW SYNC™**

**The Sync is a high strength premier static rescue rope in a 11mm lightweight package**

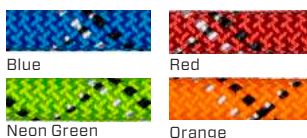
The hydrophobic high tenacity polyester sheath and low-elongation nylon core offer a balanced construction for increased strength with a smooth feel, ideal for raising and lowering systems. UL certified to NFPA 1983 General Use, this offers fire departments and rescue technicians the opportunity to lighten their rescue systems while staying G-rated compliant.



**11.0 mm SYNC**

The Sync is a high strength static rescue rope in a 11mm lightweight package.

**UL certified to NFPA 1983 General Use**



“ I found the knotability of this rope to be rather similar to the Work Pro. There’s no discernible difference in elongation compared to the HTP. A great addition for agencies that want the extra headroom provided by the rope’s 40kN strength without having to carry an 1/2” rope. **- Matt Speier, Peak Rescue Institute** ”

Technical Specifications	11 mm SYNC
Diameter (mm)	11.0
Weight (lb/100')	5.9
MBS Rating (lb)	9,014
MBS Rating (kN)	40.1
Elongation at 300 lb (%)	4.3
Elongation at 10% MBS (%)	9.4
Core/Sheath	Nylon/Polyester
Certification	NFPA 1983 (G)
Lengths Available	150, 200, 300, 600'   46, 61, 92, 183 m

ABS=Average break strength, MBS=Three-sigma minimum break strength

## Ultra-low stretch, strong and durable in all conditions

When we first introduced the HTP lineup—the first 100% polyester static ropes on the market—the reaction could best be described as skeptical. There was no precedent for using it in high-impact, industrial rope applications.

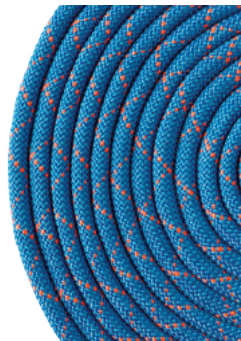
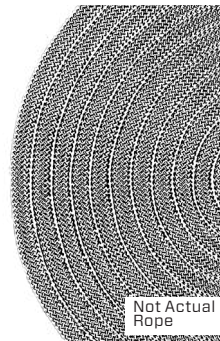
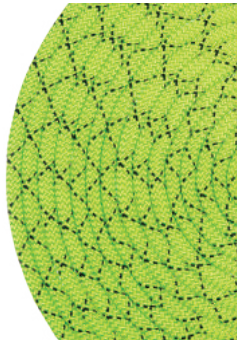
A few years later, HTP are some of the most sought-after static ropes available, for many rope access, rescue or tactical applications.

This popularity is because of the HTP's many advantageous qualities thanks not only to its polyester material, but also to the construction methodology we devised to extract the most from this material: an exacting core construction for strength and unique sheath for handling. The result is solid resistance to water, chemicals, UV and abrasion and great overall handling and gear compatibility.

Sterling HTP ropes are certified to **NFPA 1983:**

3/8", 7/16" **Technical**  
1/2", 5/8" **General**

7/16" and 1/2" also meet **ANSI Z133.**



## 9 mm HTP

High strength and low elongation in lightweight package.



## 3/8" HTP

Good for search and rescue taglines, mountain rescue, and lightweight tensioned systems.

**NFPA 1983: Technical**



## 10.5 mm HTP

A static rope specifically designed and constructed for gear compatibility for rope access technicians.

**NFPA 1983: Technical**

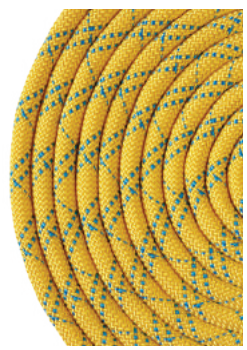
## 7/16" HTP

A multiuse rescue and rappel rope perfect for rope rescue, rope access and efficient ascending/descending.

**NFPA 1983: Technical**  
**ANSI Z133**







### 1/2" HTP

The top choice for mainlines, haul systems and highline use.

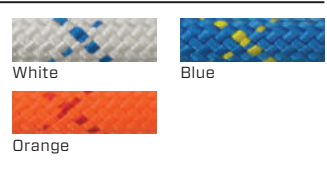
**NFPA 1983: General  
ANSI Z133**



### 5/8" HTP

Engineered for serious strength and a perfect choice for industrial work and other big jobs. It is also compatible with many industrial fall protection devices.

**NFPA 1983: General**



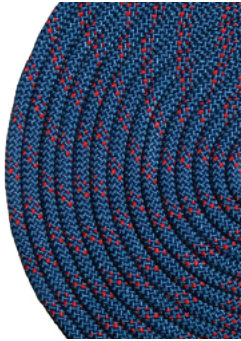
Technical Specs	9 mm HTP	3/8" HTP	10.5 mm HTP	7/16" HTP	1/2" HTP	5/8" HTP
<b>Diameter (mm)</b>	9.0	10.0	10.5	11.0	12.5	16.0
<b>Weight (lb/100')</b>	4.3	5.3	5.7	6.5	8.0	12.5
<b>MBS Rating (lb)</b>	4,496	5,979	5,845	6,856	9,081	12,993
<b>MBS Rating (kN)</b>	20.0	26.6	26.0	30.5	40.4	57.8
<b>MBS Sewn Eye (lb)</b>	4,226	5,328	5,013	5,845	7,823	11,221
<b>ABS Rating (lb)</b>	5,058	6,784	6,362	7,568	10,507	15,173
<b>ABS Rating (kN)</b>	22.5	30.2	28.3	33.7	46.7	67.3
<b>Elongation at 300 lb (%)</b>	1.6	1.4	1.7	1.9	1.0	1.6
<b>Elongation at 10% MBS (%)</b>	2.0	2.8	2.2	4.0	2.0	2.8
<b>Core/Sheath</b>	Polyester/ Polyester	Polyester/ Polyester	Polyester/ Polyester	Polyester/ Polyester	Polyester/ Polyester	Polyester/Polyester
<b>Certification</b>		NFPA 1983 (T)	NFPA 1983 (T)	NFPA 1983 (T)	NFPA 1983 (G)	NFPA 1983 (G)
<b>Lengths Available</b>	150, 200, 300, 600, 660'   46, 61, 92, 183, 200 m					

ABS=Average break strength, MBS=Three-sigma minimum break strength

# SuperStatic2™

## Ultra-smooth handling and gear integration

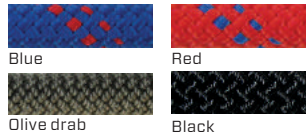
The SuperStatic2 line has been our go-to, all-around static rope for over 25 years. In this latest version, the core is engineered specifically to make the SuperStatic2 a more flexible and better-handling rope. It also made the ropes more round and consistently shaped from end-to-end. The SuperStatic2 ropes integrate smoothly and operate reliably with gear and hardware.



### 3/8" SuperStatic2

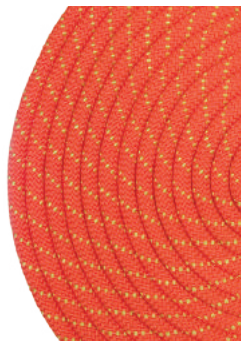
Lightweight technical rescue and rappel rope, compatible with most ascending and rappelling devices.

**NFPA 1983: Technical**



Sterling SuperStatic2 ropes are certified to **NFPA 1983**

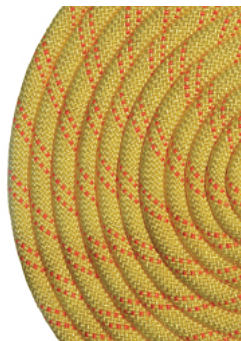
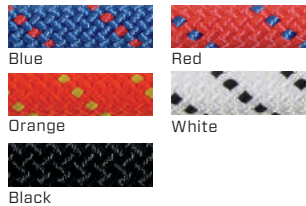
3/8", 7/16", 1/2" **Technical General**



### 7/16" SuperStatic2

A do-it-all static rope that can withstand heavy abuse.

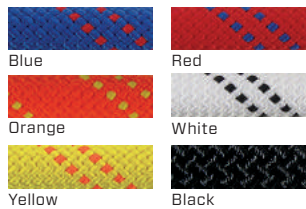
**NFPA 1983: Technical**



### 1/2" SuperStatic2

The most versatile general use rescue rope and the experienced professional's choice for main and belay lines. 1/2" SafetyGlo features a reflective tracer available in white.

**NFPA 1983: General**



“ We had an intensive 7-day rescue course in Joshua Tree and we brought the 7/16" SuperStatic2. We put it through its paces with racks, prusiks, pulleys, mechanical devices as well as abrasive rock and it handled as well as any Sterling rope would. Great knotability and handling with very low elongation. ”

**-John Giddings, Peak Rescue Institute**

Technical Specifications	3/8" SuperStatic2	7/16" SuperStatic2	1/2" SuperStatic2
Diameter (mm)	9.5	11.0	12.5
Weight (lb/100')	4.2	5.5	6.8
MBS Rating (lb)	4,945	6,519	9,239
MBS Rating (kN)	22.0	29.0	41.1
MBS Sewn Eye (lb)	4,945	5,845	7,913
ABS Rating (lb)	5,467	7,402	9,382
ABS Rating (kN)	24.3	32.9	41.7
Elongation at 300 lb (%)	3.3	3.2	1.5
Elongation at 10% MBS (%)	6.2	7.0	6.2
Core/Sheath	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon
Certification	NFPA 1983 (T)	NFPA 1983 (T)	NFPA 1983 (G) / ANSI Z359.15
Lengths Available	150, 200, 300, 600, 660'   46, 61, 92, 183, 200 m		

ABS=Average break strength, MBS=Three-sigma minimum break strength

# WorkPro™

## The ultimate work horse

The WorkPro series of static ropes benefits from our extensive experience working with mixed material ropes. The WorkPro uses a newly designed pre-steamed nylon core surrounded by a 32-carrier polyester sheath. This combination of fibers makes for a balanced elongation in the core and sheath so they share the load evenly—making the rope stronger than other ropes of similar construction.

All WorkPro diameters are certified to **EN 1891: Type A**.

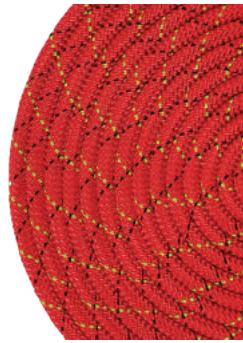
The 3/8" and 7/16" are also **NFPA 1983: Technical**. The 1/2" is **NFPA 1983: General**.

The 7/16" and 1/2" also meet **ANSI Z133**.



I've been really happy with the 12.5 mm WorkPro™. It doesn't hurt my hands to grab as much as smaller-diameter rope, 11.7's and whatnot, but it's also not quite as heavy as some of the larger half-inch ropes. It also hasn't lost its knotability, as I've beaten it up over the course of the past season. I tend to beat things up pretty badly, so the fact that I'm still climbing on it says something for the durability of this rope. I use it with my mechanical devices, Rope Runner, Bulldog Bone, Akimbo, and I've had really good luck with all of them.

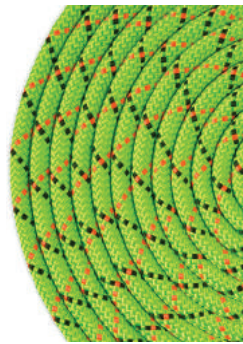
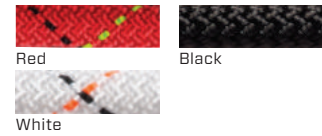
**- Mac Swan,  
Certified Arborist,  
TRAQ, CTSP and  
Sterling Field Tester**



### 3/8" WorkPro

Versatile static line that's ideal for rappelling, hauling, and jugging.

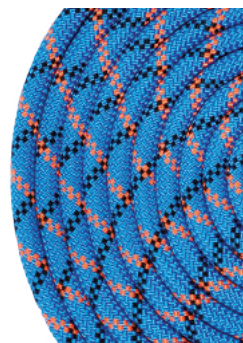
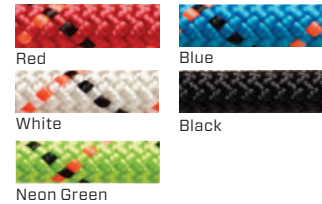
**NFPA 1983: Technical,  
EN 1891: Type A**



### 7/16" WorkPro

Features the abrasion resistance of HTP with a soft hand and energy absorption of a nylon rope. Designed for use by arborists, rope access technicians and the military.

**NFPA 1983: Technical,  
EN 1891: Type A, ANSI Z133**



### 1/2" WorkPro

Balance of strength and handling suited for rescue scenarios.

**NFPA 1983: General,  
EN 1891: Type A, ANSI Z133**



	3/8" WorkPro	7/16" WorkPro	1/2" WorkPro
<b>Diameter (mm)</b>	10.0	11.0	12.5
<b>Weight (lb/100')</b>	4.5	5.8	7.2
<b>MBS Rating (lb)</b>	6,519	8,092	10,116
<b>MBS Rating (kN)</b>	29.0	36.0	45.0
<b>MBS Figure 8 (kN)</b>	>15	>15	>15
<b>ABS Rating (lb)</b>	7,316	9,586	10,520
<b>ABS Rating (kN)</b>	32.5	42.6	46.8
<b>Elongation at 300 lb (%)</b>	3.5	3.5	3.3
<b>Elongation at 10% MBS (%)</b>	8.4	9.4	9.8
<b>50-150 kg Elongation (%)</b>	2.6	2.8	1.7
<b>Sheath Percentage (%)</b>	44.7	36.0	35.8
<b>Sheath Slippage (%)</b>	0.0	0.4	0.1
<b>Sewn Eye MBS (lb)</b>	5,530	6,878	8,655
<b>Shrinkage (%)</b>	0.8	2.4	1.9
<b>Core/Sheath</b>	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
<b>EN 1891 Falls</b>	>5	>5	>5
<b>EN 1891 Impact (kN)</b>	5.5	5.8	5.5
<b>Certification</b>	EN 1891 (A) NFPA 1983 (T)	EN 1891 (A) NFPA 1983 (T)	EN 1891 (A) NFPA 1983 (G)
<b>Lengths Available</b>	150, 200, 300, 600, 660'   46, 61, 92, 183, 200 m		

ABS=Average break strength, MBS=Three-sigma minimum break strength

## An ideal balance of strength, elongation and handling

The SafetyPro static ropes are specifically designed to meet the needs of rope access personnel. These 100% nylon static ropes hit the sweet spot for durability, elongation and knot-tying ability: essential characteristics for work-at-height. The SafetyPro series is among the most popular tools for professional rope access technicians, tower, wind turbine, and industrial workers.



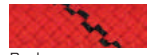
### 9 mm SafetyPro

A lightweight construction that is ideal for rappel and tag lines, anchor systems or light rescue loads.

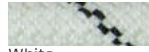
**EN 1891: Type B**



Blue



Red



White



Black

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

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



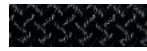
### 10 mm SafetyPro

Originally designed for military and tactical applications, the balanced construction makes this the perfect rope for lightweight work at height.

**EN 1891: Type A**



Blue



Black



White



### 10.5 mm SafetyPro

Designed as a technical work and rescue line with excellent abrasion resistance, it is a proven option for rappel and backup lines.

**EN 1891: Type A**



Blue



Red



Black



### 11 mm SafetyPro

A technical work and rescue line manufactured to meet the requirements of the most demanding rope access professionals.

**EN 1891: Type A**



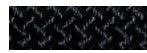
White



Red



Yellow



Black

Technical Specifications	9 mm SafetyPro	10 mm SafetyPro	10.5 SafetyPro	11 mm SafetyPro
Diameter (mm)	9.0	10.0	10.5	11.0
Weight (lb/100')	3.4	4.2	4.7	5.1
MBS Rating (lb)	4,271	5,575	6,114	7,306
MBS Rating (kN)	19.0	24.8	27.2	32.5
MBS Figure 8 (kN)	>12	>15	>15	>15
EN 1891 Falls	>5	>5	>5	>5
EN 1891 Impact (kN)	4.4	5.9	5.8	5.9
Elongation at 300 lb (%)	1.9	4.5	2.8	3.3
Elongation at 10% MBS (%)	4.2	7.6	6.0	8.4
50 kg/150 kg Elongation (%)	3.4	3.3	3.4	3.4
Sheath Percentage (%)	42.0	40.1	47.1	41.4
Sheath Slippage (%)	0.0	0.0	0.0	0.0
Sewn Eye MBS (lb)	3,372	5,170	5,418	5,418
Shrinkage (%)	1.8	1.7	1.8	2.0
Core/Sheath	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon
Certification	EN 1891 (B)	EN 1891 (A)	EN 1891 (A)	EN 1891 (A)
Lengths Available	165, 200, 300, 600, 660'   50, 61, 92, 183, 200 m	150, 200, 300, 600, 660'   50, 61, 92, 183, 200 m	150, 200, 300, 600, 660'   50, 61, 92, 183, 200 m	150, 200, 300, 600, 660'   50, 61, 92, 183, 200 m

MBS=Three-sigma minimum break strength

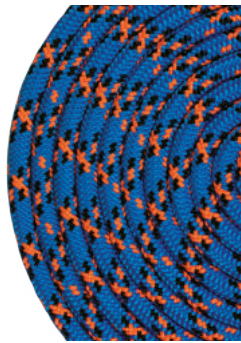
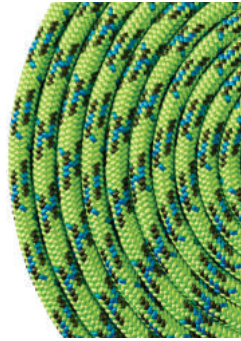


# Scion™

**Newly redesigned double-braid arbor climbing lines that are fully certified.**

The Scion's ability to absorb dynamic forces makes this rope series ideal for MRS and SRS. The 11.5 mm and the 12.5 Scion are double-braid lines 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. Both diameters can be hand spliced and are also available with sewn terminations.

Scion Climbing Lines are Certified to **EN 1891 Type A** and meet **ANSI Z133**

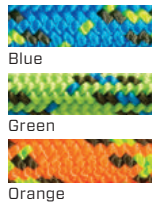


## 7/16" Scion™

A fully certified, dedicated arbor climbing line for MRS and SRS climbing. Newly redesigned to offer 25% more strength, 40% reduction in sheath slippage and no milking of sheath

3 colors

**EN 1891: Type A, ANSI Z133**



## 1/2" Scion™

We built the 1/2" Scion with the same durability and performance in a larger diameter for SRS and MRS climbing.

2 colors

**EN 1891: Type A, ANSI Z133**



**NEW**

**SlimStitch™  
Sewn Eye**

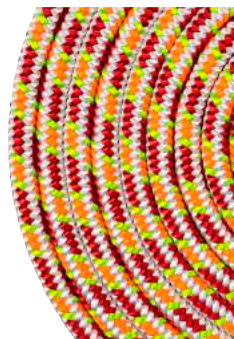


Sterling's new SlimStitch™ sewn eye, designed with a low-profile, high-strength tack that allows the eye to pass through typical gear.

# Element™

**The Element is abrasion-resistant and durable, offers exceptional handling and hitchability, has zero sheath slippage and is spliceable.**

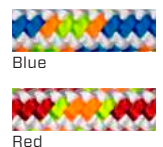
The 16-strand Element rounds out our collection of arbor ropes by offering a tried-and-true construction with the quality you've come to expect from Sterling. Available in two colors allowing you to easily identify which rope you've designated for climbing and which for rigging.



## 12.8 mm Element

The Element features a polyester sheath and a nylon core and is also available in with a SlimStitch™ sewn eye.

2 colors



Technical Specifications	7/16" Scion	1/2" Scion	12.8 Element
Diameter (mm)	11.5	12.5	1/2"
Weight (lb/100')	6.1	7.2	7.8
MBS Rating (lb)	6,744	7,193	6,740
MBS Rating (kN)	30.0	32.0	30.0
Sewn Eye MBS Rating (lb)	5,732	6,115	5,732
Sewn Eye MBS Rating (kN)	25.5	27.2	25.5
ABS Rating (lb)	7,643	7,935	7,190
ABS Rating (kN)	34.0	35.3	32.0
Elongation at 300 lb (%)	1.5	1.7	-
Elongation at 10% MBS (%)	3.8	4.2	5.2
Sheath Percentage (%)	48.6	47.1	72
Sheath Slippage (%)	0.3	0.5	0
Shrinkage (%)	-0.8%	2.6	-
Core/Sheath	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
Certification	EN 1891 (A) ANSI Z133	EN 1891 (A) ANSI Z133	-
Lengths Available	120, 150, 200, 600'   37, 46, 61, 183 m		

ABS=Average break strength, MBS=Three-sigma minimum break strength

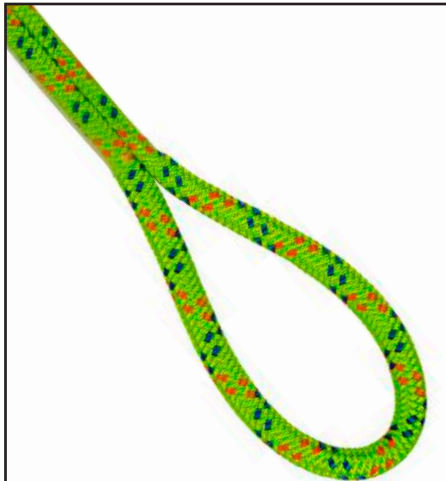
# Atlas™

## Arbor rigging ropes with proven durability and massive strength.

The Atlas is our strongest arbor rigging rope series. The nylon/polyester construction gives the Atlas unmatched strength-to-weight performance for a dynamic rigging line. The tightly woven polyester sheath resists picking, and protects the core without sacrificing handling and flexibility.

Available with a sewn termination

**Hand spliceable**



### Atlas Sewn Eyes

The Atlas sewn eyes are designed using a new low-profile, high strength tack that allows the eye to pass through typical gear.



### Atlas™ 1/2"

The 1/2" Atlas is the go-to rope for everyday rigging with a tightly braided sheath that protects the core without sacrificing handling.

2 colors



### Atlas™ 9/16"

This 9/16" Atlas rigging line has been completely redesigned. The new double-braid construction is now 32% stronger than our previous 9/16" model.

2 colors



### Atlas™ 5/8"

The 5/8" Atlas rigging line offers an ABS of over 19,000 lb., but still keeps the performance and handling of the thinner-diameter ropes in the series.

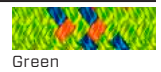
1 color



### Atlas™ 3/4"

The 3/4" Atlas is our most durable rigging line built for extreme loads with an average breaking strength of 22,480 lb.

1 color



Technical Specifications	1/2" Atlas	9/16" Atlas	5/8" Atlas	3/4" Atlas
Diameter (mm)	13.0	14.0	17.0	19.0
Weight (lb/100')	7.9	8.9	13.5	17.3
ABS Rating (lb)	11,500	13,750	19,400	22,480
ABS Rating (kN)	51.1	61.1	86.3	100.0
Elongation at 300 lb (%)	0.9	0.8	0.4	0.3
Elongation at 10% MBS (%)	4.1	4.5	4.5	4.3
Sewn Eye MBS Rating (lb)	9,000	11,050	15,250	18,147
Sheath Percentage (%)	49.0	43.0	40.0	41.0
Core/Sheath	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
Lengths Available	150, 200, 600'   46, 61, 183 m			

ABS=Average break strength, MBS=Three-sigma minimum break strength

# Tech Ropes

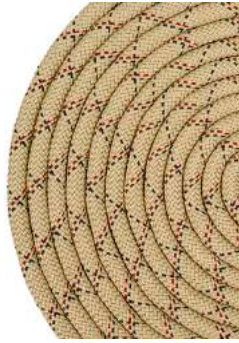
## Specialty ropes for the toughest environments

After a quarter century of building the highest quality ropes and life-safety products, Sterling static ropes have developed a reputation for quality, reliability and ease-of-use. But above all, our ropes are known for durability. Despite the inherent ruggedness of all of our static ropes, some work environments are so hazardous and so challenging that they require something special.

Enter our Tech Series: a line of static ropes that incorporate Technora®, an aramid fiber that is highly resistant to heat and cutting. We were the first to use Technora for life-safety applications like fire ropes. It's a material that we've become experts at engineering into ropes and one that allows Sterling Tech ropes to go where other ropes simply can't.

Sterling H3 Tech125, Tech11, Tech HTP and Tactical Response ropes are certified to **NFPA 1983**

Tech HTP **Technical, ANSI Z359.15**  
 Tactical Response **Technical, EN 1891: Type B**  
 Tech11 **General, EN 1891: Type A**  
 H3 Tech125 **General**



### NEW Tech HTP™

The Tech HTP's innovative use of Technora makes it ideal for rope access and fire rescue use in scenarios with edge protection issues and potential contamination with aluminum shavings, chemicals, soot, and high heat.

**NFPA: Technical**  
**ANSI Z359.15**



### Tactical Response™

Low weight and high strength in a compact diameter that's readily compatible with climbing and rescue hardware. Ideal for mountain rescue and tactical scenarios.

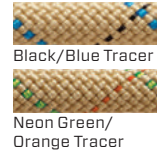
**NFPA 1983: Technical**  
**EN 1891: Type B**



### Tech11™

The only NFPA - General rated 11 mm rope. Tech 11 is a go-to for hazardous rope access situations, such as refineries or chemical plants, as well as general rescue use.

**NFPA 1983: General**  
**EN 1891: Type A**



### OpLux™

High-strength, cut-resistant Spectra® fibers in the core combined with a unique blended Technora sheath give the OpLux unmatched power in the most compact package.



Natural Technora / Black/Olive Drab



### Tech125™

Extremely durable and incredibly strong. Designed with a heat-resistant sheath in a 1/2" size for use with standard rescue equipment. Approved for use with Ronin powered ascender.



Technical Specifications	OpLux™	Tactical Response™	Tech HTP™	Tech11™	Tech125™
<b>Diameter (mm)</b>	8.0	9.5	11.0	11.0	12.5
<b>Weight (lb/100')</b>	2.8	4.2	95	5.9	7.0
<b>MBS Rating (lb)</b>	5,440	6,744	8,092	9,014	10,183
<b>MBS Rating (kN)</b>	24.2	30.0	36.0	40.1	45.3
<b>Sewn Eye MBS Rating (lb)</b>	4,624	-	-	5,957	8,636
<b>Elongation at 300 lb (%)</b>	3.3	3.4	1.5	3.4	2.1
<b>Core/Sheath</b>	Spectra/Technora & Polyester	Nylon/Technora	Polyester/Technora	Nylon/Technora	Nylon/Technora
<b>Certification</b>	-	NFPA 1983 (T) / EN 1891 (B)	NFPA (T) / ANSI Z359.15	NFPA 1983 (G) / EN 1891 (A)	-
<b>Lengths Available</b>	100, 150, 200, 300, 660'   30, 46, 61, 92, 200 m"	150, 200, 300, 600, 660' 46, 61, 92, 183, 200 m	46, 61, 92, 183, 200 m	150, 200, 300, 600, 660' 46, 61, 92, 183, 200 m	200, 600' 61, 183 m

MBS=Three-sigma minimum break strength



# Tech11 and H3 Tech11:

Sterling offers heat resistant static ropes that meet the ARC Flash criteria of ASTM F887. The ropes were 3rd party tested and meet the requirements of ANSI Z359.1, vertical lifeline component of 5,000 lb (22kN) after being exposed to the Arc Flash.

With both core and sheath made of 100% Technora, the H3 models are a triple-threat in applications involving heat, height and hazards.

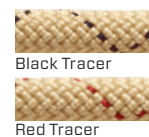
Technical Specifications	H3 Tech11™	H3 Tech125™
Diameter (mm)	11.0	12.5
Weight (lb/100')	6.0	7.6
MBS Rating (lb)	9,576	9,441
MBS Rating (kN)	42.6	42.0
Sewn Eye MBS Rating (lb)	8,137	8,654
Elongation at 300 lb (%)	1.1	1.0
Core/Sheath	Technora	Technora
Certification	-	NFPA 1983 (G)
Lengths Available	200, 600'   61, 183 m	

MBS=Three-sigma minimum break strength



## H3 Tech11™

For high heat rope access and rescue scenarios, there's nothing more rugged or more capable.



## H3 Tech125™

A 100% Technora rope that is extremely durable, has great handling and is easy to use with descent control devices. For use in roof rescue and other fire operations that need heat and cut resistance.



**NFPA 1983: General**

H3 Tech11 passes the Elevated Temperature Test requirements for NFPA 1983.

**400c Average Time: 6:34**  
**600c Average Time: 1:48**



Tech11 in use in industrial rope access environment. Photo by Ben Erdman.

# Technora® Rope Testing

## Heat Resistance

Environments with hot hazards, such as steam tracing pipes, can potentially be damaging to the lifelines used for access and rescue. No consensus standard exists for ropes in contact with such high heat hazards, so Sterling designed and built a specialized testing apparatus which would allow us to test ropes in contact with steel pipes at temperatures of over 700°F. Shown here is a sample of some of the results of this testing.\*

Ropes were wrapped 180° around a pipe heated to 700°F with a steady load of 2 kN applied and held to 10 minutes or until failure.

Rope Name	Materials (Sheath/Core)	Time (seconds)	Max Load (kN)	Residual ABS	Control ABS	% Strength Retained
HTP™	Polyester/Polyester	37	0.3	0.0	0.0	0.0
Tech11™	Technora/Nylon	600	2.0	13.1	44.9	29.2
H3 Tech11™	Technora/Technora	600	2.0	37.8	44.5	85.0
Tech HTP™		600	2.0	8.64	38.94	22.2
Tech125™		600	2.0	13.56	40.4	33.6
H3 Tech125™		600	2.0	39.11	47.8	81.8

ABS=Average break strength

\*This testing is by no means definitive or conclusive. A thorough Job Hazard Analysis should be conducted before working in any environment where hot hazards exist. For further information, please contact us.



# This is XEROS technology

We spent the past three years working closely with our bluesign®-certified nylon yarn supplier in an exclusive partnership that let us develop an entirely new way to create dry rope.

What we've created is not a coating applied to the rope, or a separate liquid bath treatment. It's a new step in the manufacturing process of individual nylon fibers, before they're even twisted into yarn, that makes each fiber water resistant. When we make dry

rope using these fibers, the result is a product that blows traditional dry rope out of the water.

And that's not the only thing that makes XEROS technology a breakthrough.

Along with being PFOA and PFAS long-chain free, like all Sterling ropes, the XEROS technology process:

- Reduces waste

## A revolution in dry rope: Introducing Xeros technology

**XEROS technology is a whole new way to manufacture UIAA Certified dry rope that's more effective, wear resistant, better for the environment, and lower cost – and only available from Sterling.**

Wet rope is weaker rope. The numbers don't lie: Rope loses 20% to 40% of its strength when wet. And that can happen if you're caught in a downpour, climbing an icy pitch, or even just dealing with prolonged exposure to high humidity.

### The solution? Dry rope.

But it's not a perfect solution. Traditional dry ropes are made "dry" with an exterior coating that keeps water out. That coating can wear (leaving the rope vulnerable to water), the finish can feel tacky (so it picks up dirt), and the process to coat the rope is labor-intensive—increasing cost and waste.

We wanted to do better. So we went back to the drawing board for what a dry rope could be—and uncovered a whole new way to make dry rope.

### Stay strong in the wet

XEROS technology creates a dry rope with next-level performance—and without a sticky, vulnerable-to-wear outer coating. Because of the process, both the core and sheath are protected with XEROS, which reduces performance issues related to sheath slippage. All for a minimal price increase over traditional non-dry rope.

**Try it for yourself with these ropes that use XEROS technology and are ready for anything.**

- Duetto 8.4 mm
- Aero 9.2 mm
- Ion R 9.4 mm
- Quest 9.6 mm
- Velocity 9.8 mm
- T-10 10.0 mm



- Reduces energy use
- Reduces labor

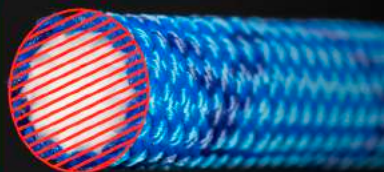
In other words, this new process is better for the environment. And best of all, climbing rope with XEROS technology costs significantly less than rope made with traditional dry treatments. That's right—there's no premium to pay for a rope that's really ready for anything.

#SterlingSolid #SterlingXEROS #readyforanything

**OLD TECHNOLOGY**  
Bath treatment only protects approximately 30-40% of the fibers



**XEROS TECHNOLOGY**  
100% of fibers are treated, creating a dry rope from the inside out



# Dynamic Ropes

## The gold standard in multi-purpose dynamic ropes

Sterling produces a full range of dynamic ropes including ropes that meet military specification and mountain rescue requirements. All Sterling ropes are manufactured in the USA and are Berry Amendment compliant. With available lengths ranging from 30-80 m featuring XEROS UIAA Certified Dry technology, plus our bicolor and bipattern options, Sterling offers multi-purpose dynamic ropes to meet the most demanding climbing applications.



### Nano IX™ 9.0 mm

A highly-specialized rope engineered for climbing where weight is critical to mission success. Triple certified as UIAA single, half and twin. DryXP UIAA Certified Water Repellent treatment comes standard.

5 colors available

UIAA 101, EN 892



### NEW Aero 9.2 mm XEROS

With a 9.2 mm diameter, the Aero balances a durable, tough sheath with a lighter weight core construction. Available UIAA Certified Dry with XEROS Technology.

5 colors available



UIAA 101, EN 892



### NEW Ion R™ 9.4 mm

At 9.4 mm, this mid-diameter rope is a favorite for its smooth and comfortable-handling sheath. Available UIAA Certified Dry with XEROS Technology.

5 colors available

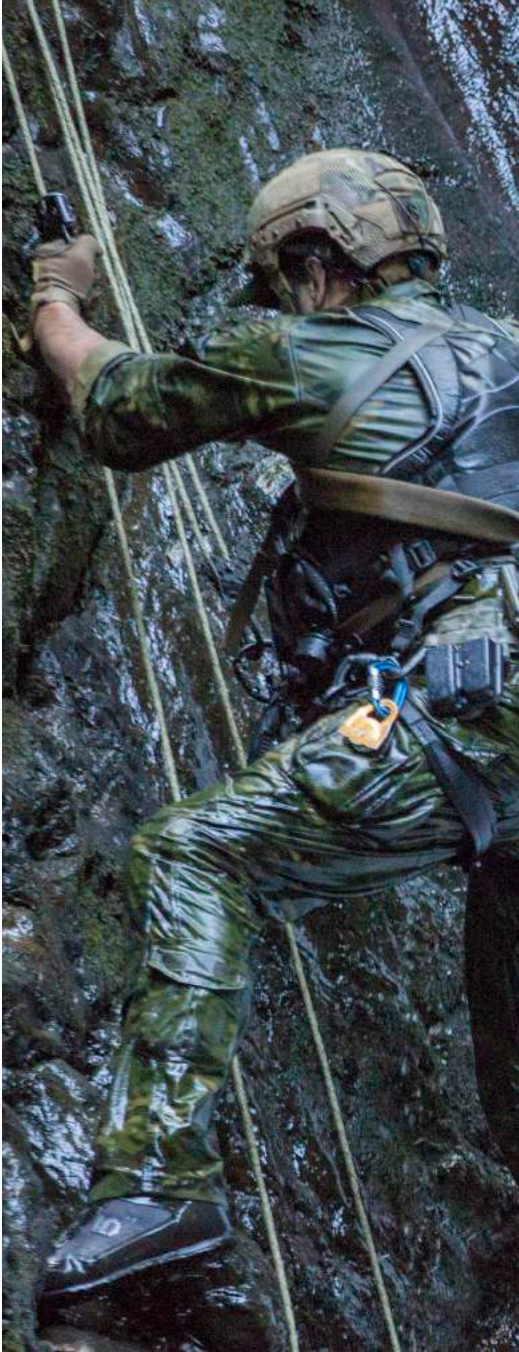
UIAA 101, EN 892

### XEROS



Aero 9.2 mm and Nano IX 9.0 mm are triple certified for single, half and twin use.

Technical Specifications	Nano IX	Ion R	Aero
UIAA Certification	Single   Half   Twin	Single	Single   Half   Twin
Diameter (mm)	9.0	9.4	9.2
Weight (g/m)	52	56	56
Impact Force (kN)	8.5   6.6   10.4	8.8	8.8/6.6/10.1
Dynamic Elongation (%)	33.1   27.6   25.3	31.3	30.2/28.9/23.6
Static Elongation (%)	7.0   7.0   3.6	8.4	7.5/7.4/6.1
Sheath Percentage (%)	29	38	41
UIAA Falls	6   16   >20	6	7/21/>20
Dry Treatment	DryXP	XEROS	XEROS
Bicolor or Bipattern Available	Bicolor: 60, 70 m	Bicolor: 60, 70 m	Bicolor: 60, 70, 80 m
Certification	EN 892 UIAA 101	EN 892 UIAA 101	EN 892 UIAA 101
Lengths Available	30, 40, 50, 60, 70, 80 m	40, 50, 60, 70, 80 m	50, 60, 70, 80



Rappelling during jungle operations training. Photo: Hurricane Media.

**NEW**

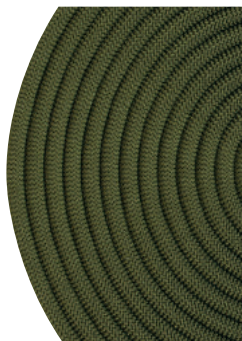
**Velocity™ 9.8 mm**

**XEROS**

Our flagship rope is a near perfect balance of durability, impact force, smooth handling and low weight for its diameter. Available UIAA Certified Dry with XEROS Technology.

4 colors available

**UIAA 101, EN 892**



**NEW**

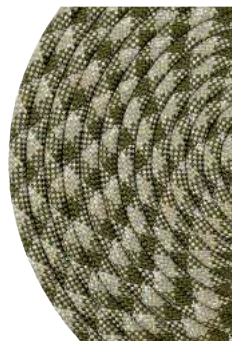
**T-10 10.0 mm**

**XEROS**

Drawing its design from big wall climbers, the T-10 is built to last and stand up to the wear and tear of multi-pitch adventures. Available UIAA Certified Dry with XEROS Technology.

4 colors

**UIAA 101, EN 892**



Technical Specifications	Velocity	T-10
<b>UIAA Certification</b>	Single	Single
<b>Diameter (mm)</b>	9.8	10.0
<b>Weight (g/m)</b>	62	65
<b>Impact Force (kN)</b>	8.6	9.0
<b>Dynamic Elongation (%)</b>	28.8	30.0
<b>Static Elongation (%)</b>	8.6	8.0
<b>Sheath Percentage (%)</b>	35	35
<b>UIAA Falls</b>	6	8
<b>Dry Treatment</b>	XEROS	XEROS
<b>Bicolor or Bipattern Available</b>	Bicolor: 60, 70 m	Bipattern: 60, 70 m
<b>Certification</b>	EN 892 UIAA 101	EN 892 UIAA 101
<b>Lengths Available</b>	35, 40, 50, 60, 70, 80 m	60, 70 m

See full specifications for all dynamic ropes starting on page 52

**FAST ropes and other dynamic ropes:**



FAST Ropes are available in several different configurations to accommodate different airframe attachments and user requirements. For more information on our FAST ropes and full range of dynamic ropes available in Camo and Olive Drab, please give us a call at 1-800-788-7673.

**HollowBlock2 - Black**



Our bestselling friction hitch and autoblock has been redesigned with a stronger aramid fiber. The 6.8 mm HollowBlock2 is made of 100% Technora® fiber for increased abrasion resistance and improved durability. It's gripping ability comes from the unique hollow-braid construction, for use as a prusik or Klemheist knot on ropes 7 mm or larger. MBS Rating (lb): 3,147 / MBS Rating (kN): 13.0 **See technical specs on page 41.**

# Fire Ropes

## Purpose-built for crucial moments

Unlike the rest of our products, we developed our Fire Escape Ropes with the hope that they never get used. But, if they are needed, it's our job to make sure they work flawlessly without question. Most of our Fire Escape Ropes use high performing aramid yarns, such as Technora® in unique, small diameter constructions to achieve resistance to abrasion, chemicals and extreme heat. We have also assured that they can be stored compactly and handled easily if the need should arise.

We hope you never have to use these products. But if you do, know that a split-second decision to deploy your rescue rope is backed up by countless hours of R&D, testing and US-made quality construction.



### FireTech2™

An improved construction on the popular FireTech makes the FireTech2 slightly lighter weight and gives it a softer hand. Compatible with F4™ and new FCX™ descent devices.



Natural Technora

**NFPA 1983: Fire Escape**

FireTech™ was the fire rope chosen by FDNY and is considered the standard for all fire escape ropes.



### EscapeTech™

The most compact certified escape rope available. The nylon core construction allows for easy packing into a bag or pocket and easy payout. Compatible with F4 Descent Device.



Black/Red Tracer

**NFPA 1983: Fire Escape**



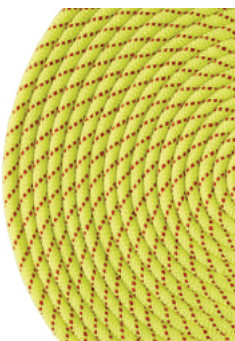
### SafeTech™

A Technora sheath is resistant to high heat, chemicals and abrasion, while the core provides strength, gear compatibility and better elongation to reduce anchor loads. Compatible with FCX and F4 descent devices.



Orange Tracer

**NFPA 1983: Fire Escape**



### 8 mm PER

A compact, lightweight and 100% nylon rope is a great economical option for escape operations. Also available in 8 mm PER SafetyGlo™ that features a reflective tracer in the sheath. Compatible with FCX and F4 descent devices.



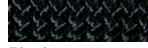
Orange



SafetyGlo™ Yellow



Yellow



Black

**NFPA 1983: Escape**

## Escape Ropes

**NFPA 1983 Requirements for Escape Ropes:** Minimum tensile strength of 13.5 kN. Elongation of at least 1% at 10% of the MBS.

Diameter no smaller than 7.5 mm and no larger than 9.0 mm. Sewn eyes shall have a minimum breaking strength of at least 85% of the strength of the rope, OR shall have an MBS of not less than 13.5 kN. Fiber cannot melt at less than 400°F.

**NFPA 1983: 2017 Requirements for Fire Escape Ropes:** The ropes must hold 300 lb for 5 minutes at 725°F and must hold for 30 seconds at 1112°F.

Escape ropes are available in Fire Escape Kits on page 35

Sterling Escape ropes are certified to **NFPA 1983:**

FireTech2	<b>Fire Escape</b>
EscapeTech	<b>Fire Escape</b>
SafeTech	<b>Fire Escape</b>
8 mm PER	<b>Escape</b>

If you need help choosing the right escape rope or to get more information regarding demos and evaluations, contact us today.

Technical Specifications	FireTech2™	EscapeTech™	SafeTech™	8 mm PER
Diameter (mm)	7.5	7.5	8.0	8.0
Weight (lb/100')	4.2	2.8	2.8	2.8
Weight (lb/50')	2.1	1.4	1.4	1.4
MBS Rating (lb)	5,732	3,911	4,383	3,484
MBS Rating (kN)	25.5	17.4	19.5	15.5
ABS (lb)	6,546	4,657	5,322	4,504
ABS (kN)	29.1	20.7	23.7	20
Elongation at 300 lb (%)	1.6	5.8	6.3	7.4
Core/Sheath	Technora/Technora	Nylon/Technora	Nylon/Technora	Nylon/Nylon
NFPA Elevated Temp Test @ 400c	>5:30	>5:30	>5:30	-
NFPA Elevated Temp Test @ 600c	1:27	1:28	1:22	-
Certification	NFPA 1983 (FE)	NFPA 1983 (FE)	NFPA 1983 (FE)	NFPA 1983 (E)
Lengths Available	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m	40, 50, 200, 600'   12, 15.5, 61, 183 m	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m

ABS=Average break strength, MBS=Three-sigma minimum break strength



FireTech2 and FCX during bailout exercises. Photo: Joe Klementovich

# Escape Systems Testing



Firebox setup. Photo by Mike Forbes at ropecraft.org.

7/6/16  
Test ID: 7  
Hook IDs: 13/14

Fire escape systems present unique challenges when it comes to testing. We developed specialized testing procedures designed to simulate real fire conditions: high heat, rollover and flashover. We subjected our anchor hooks and escape ropes to these conditions for a set period of time or until failure.

**Find our Escape Kits and Systems starting on page 34.**

## Fire Test Setup Configurations

**Hook Types Tested:** Lightning GT™ (machined aluminum) and Crosby® (forged steel)

**Rope Types Tested:** 7.5 mm FireTech2™ (100% Technora®) and 8.0 mm PER (100% nylon)

**System Tension:** All tests were set up with a 300-lb load on each rope.

**Test Temperature Goal:** 1200°F for the test “room” environment, though the temperature varied by actual location.

**Anchor Location:** In accordance with personal escape system guidelines, we tested systems with two anchor locations:

- **Remote Anchor:** Simulated placement inside the room of the burning building, akin to wrapping system around a pipe or some other in-room anchor point.
- **Window Sill:** Attaching the hook directly to the window sill, relying on the tip of the hook to dig into the sill in order to secure the position.

**Fuel Load:** Tests were run with three different dry wood fuel loads: Small, Medium and Large. While these three loads were designed to burn at approximately same maximum temperature, the larger the fuel load, the faster the max temperature was achieved and the longer it was sustained. Large load is the worst-case fire scenario.



Firebox in use. Photo by Mike Forbes at ropecraft.org.



FCX with Remote Anchor Lightning GT Hook. Photo by Joe Klementovich.

## Takeaways from this testing procedure

- No failures occurred prior to nine minutes during any test.
- Remote anchors failed sooner than sill anchors: they are exposed to more heat and direct flame.
- No Technora ropes failed when the hook was anchored at the sill.
- Aluminum hooks can begin to twist in the remote anchor configuration; however, no hook failed during any test.
- For full test results, please visit [SterlingRope.com](http://SterlingRope.com).

**Escape Kits and Systems  
start on page 34**



## Designed for search; built to perform

We know that different and challenging situations arise during fire operations. That's why Sterling was the first to use high heat resistant fibers such as Technora® and Twaron®, as well as to incorporate reflective yarns into the sheath. Our experience creating ropes with these specialty materials results in search lines that have optimal handling, high strength and great resistance to heat and abrasion.

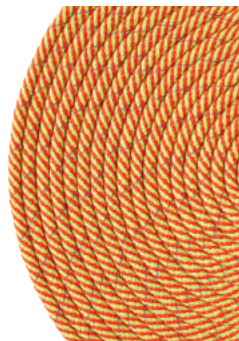


### RIT 900™

Hollow braid construction packs easily into a pocket or bag, can withstand up to 932°F and also resists abrasion and chemical damage.



Natural Twaron®



### SearchLite™

Developed for FDNY and used for search operations, SearchLite's innovative construction uses reflective fibers to increase visibility. Technora and nylon blended core enhances strength while reducing the chance of failure due to melting.



Yellow w/  
Reflective



### RIT Response™

The flexibility of this heat-resistant rope facilitates packing and deployment, while the diameter allows it to be located and handled with gloved hands in low visibility conditions.



Black / Orange  
Tracer

SearchLite rope available in the **FDNY Large Area Search Kit**; see page 37

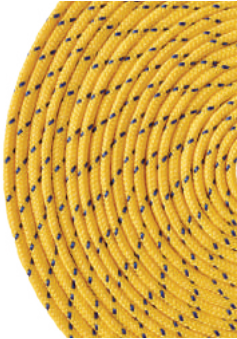
Technical Specifications	RIT 900™	SearchLite™	RIT Response™
Diameter (mm)	6.8	7.5	9.0
Weight (lb/100')	1.8	2.2	4.2
MBS Rating (lb)	4,136	3,012	6,968
MBS Rating (kN)	18.4	13.4	31.0
Elongation at 300 lb (%)	2.6	1.6	1.9
Core/Sheath	None/Twaron	Nylon & Technora/Nylon	Polyester/Twaron
Lengths Available	39, 50, 150, 200, 300, 600, 660' 12, 15.5, 46, 61, 92, 183, 200 m	50, 200, 220' 15.5, 61, 67 m	150, 200' 46, 61 m

MBS=Three-sigma minimum break strength

# Water Rescue Ropes

## Unique materials excel in wet environments

Swift water, ice and flooded environments present difficult challenges for rescue personnel. Our ropes perform in these harsh conditions with strength and optimal flotation. We manufacture our throwlines and water rescue ropes with the same precision and quality that we do with all of our life-safety ropes. We developed these ropes using only the best quality and highest tenacity polypropylene, nylon and Spectra® fibers.



### 1/4" UltraLine™

Integrates a high-strength, braided Spectra core with a polypropylene sheath for superior strength over standard float ropes. Maintains trouble-free handling characteristics and buoyancy.

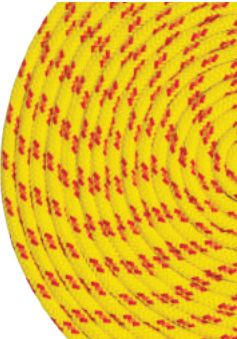


Yellow + Blue Tracer

Sterling WaterLine and GrabLine ropes are certified to **NFPA 1983**

3/8" WaterLine  
3/8" GrabLine

**Throwline**  
**Throwline**

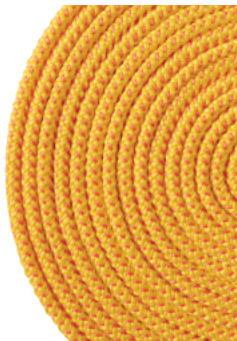


### 3/8" UltraLine™

The same high-strength, braided Spectra core with a polypropylene sheath built into a larger diameter for gripping with gloves or larger hands.



Yellow + Red Tracer



### 3/8" Grabline™

A "tread-like" sheath pattern gives both rescuer and victim extra gripping power while also providing buoyancy. The nylon core adds strength and keeps the rope flexible for throw bag storage and deployment.



Yellow + Orange

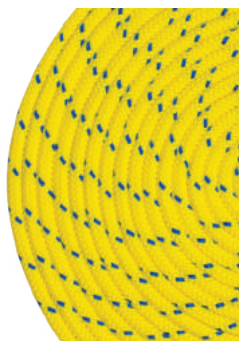
**NFPA 1983: Throwline**

Technical Specifications	1/4" UltraLine	3/8" UltraLine	3/8" Grabline
Diameter (mm)	6.5	9.5	9.5
Weight (lb/100')	1.3	2.6	3.1
Weight (g/m)	19.3	38.7	46.1
MBS Rating (lb)	2,495	5,237	3,282
MBS Rating (kN)	11.1	23.3	14.6
Elongation at 300 lb (%)	1.4	1.2	4.2
Core/Sheath	Spectra/Polypropylene	Spectra/Polypropylene	Nylon/Polypropylene
Certifications	-	-	NFPA 1983 (TL)
Lengths Available	75, 150, 200, 300, 600, 660' 23, 46, 61, 92, 183, 200 m		75, 300, 600, 660' 23, 92, 183, 200 m

MBS=Three-sigma minimum break strength



3/8" WaterLine

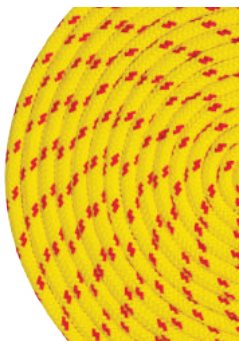


### 5/16" WaterLine™

A highly buoyant rope provides rescue personnel with a range of options to meet their specific needs. Ideal for swift water, flood, and ice rescue applications.



Yellow + Blue Tracer



### 3/8" WaterLine

Constructed with nylon and Polypropylene and UL certified to NFPA as a throwline for swift water, flood and ice rescue.

**NFPA 1983: Throwline**



Red + Yellow Tracer



Yellow + Red Tracer



### 7/16" WaterLine

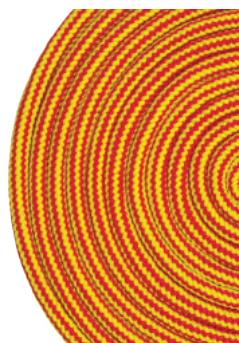
The same buoyancy and strength characteristics built into a larger diameter, making it easier to grip.



Red + Yellow Tracer



Yellow + Red Tracer



### 1/2" WaterLine

The largest diameter water rescue rope we make, the 1/2" is made from braided Polypropylene in the core and sheath for maximum buoyancy and easy gripping.



Red/Yellow

Technical Specifications	5/16" WaterLine	3/8" WaterLine	7/16" WaterLine	1/2" WaterLine
Diameter (mm)	8.0	9.5	11.0	12.5
Weight (lb/100')	2.1	3.3	4.3	5.2
Weight (g/m)	31.2	49.1	64.0	77.4
MBS Rating (lb)	1,371	3,416	4,271	5,754
MBS Rating (kN)	6.1	15.2	19.0	25.6
Elongation at 300 lb (%)	7.0	4.2	2.6	1.8
Core/Sheath	Nylon/Polypropylene	Nylon/Polypropylene	Polypropylene/ Polypropylene	Polypropylene/ Polypropylene
Certifications	-	NFPA 1983 (TL)	-	-
Lengths Available	75, 150, 200, 300, 600, 660'   23, 46, 61, 92, 183, 200 m			

MBS=Three-sigma minimum break strength

# Kits and Systems

Quality components are the backbone of any kit or system, and Sterling has been making the best for over 25 years. By choosing a Sterling kit or system, you can be certain that the components will perform flawlessly together, saving time and effort regardless of the job at hand. See page 50 to schedule your next training at the Sterling Training Center.

Kit/System	Standard	Usage
<b>AZTEK HD</b> page 29	NFPA 1983: G (w/o carabiners)	Heavy-duty mechanical advantage rigging w/ increased durability and cut-resistance
<b>AZTEK Elite System</b> page 28	NFPA 1983: G (w/o carabiners)	Mechanical advantage rigging and hauling, victim pickoffs and aerial rescue
<b>AZTEK Elite NFPA-G System</b> page 29	NFPA-G (with steel carabiners)	Mechanical advantage rigging and hauling, victim pickoffs and aerial rescue
<b>AZTEK Elite Arbor System</b> page 28	NFPA 1983: G (w/o carabiners)	Light duty rigging, hauling, and cabling, and aerial rescue
<b>AZTEK Elite Tactical System</b> page 28	NFPA 1983: G (w/o carabiners)	Mechanical advantage and aerial rescue for military and SWAT operators
<b>Pocket Hauler Kit</b> page 30	-	Light duty rigging, hauling, and cabling, and aerial rescue
<b>Mini Hauler</b> page 30		Lightweight, compact hauler for small jobs
<b>FCX Bucket Evacuation System</b> page 31	ANSI Z359.4	Low-profile self-evacuation kit
<b>Tower Rescue Kit</b> page 31	-	Tower and fall protection rescue for two-person use
<b>Tree Pulling Kit</b> page 32	-	Powerful mechanical advantage for rigging and hauling
<b>PDQ2 System</b> page 33	ANSI Z359.4	Lightweight single-person tower evacuation
<b>Raise &amp; Rescue Elite</b> page 33		The lightest mechanical progress capture system for fast and secure partner or victim rescues.

## AZTEK™ Systems

### *Powerful and versatile complete rescue systems*

A unique, multifunctional system, the AZTEK is a simple and versatile tool for mechanical advantage rigging. The system has numerous uses, including as an adjustable high directional for a belay line, pickoffs and aerial rescue, and for litter scoop rigging and attendant tether, among others. The opposite end of the rope functions as an individual edge restraint system utilizing the included travel restraint and screwlink. The AZTEK Omni Block pulleys keep loads oriented correctly when tensioned. The system is easily transported or swapped between users thanks to its accessible pouch-style carry case.

### **Sterling offers four AZTEK Elite Systems:**

**AZTEK Elite:** 2 aluminum SafeD carabiners lighten the system for mountain rescue applications with an end-to-end strength of 6,295 lbs.

**AZTEK Elite Arbor:** 2 Falcon with Talon AL carabiners and does not have the edge restraint and screwlink.

**AZTEK Elite NFPA-G:** 2 Sterling Steel autolock carabiners offer high strength and G-rated certification and end-to-end strength over 8,000 lb.

**AZTEK Elite Tactical:** 2 black aluminum Hawk autolock carabiners match up with the black pulleys and sewn cord for military and SWAT operators.

## AZTEK Elite NFPA-G Kit

### Kit Includes:

Weight: 3.8 lb / MBS: 8,093 lb (NFPA - General version)

**(1) AZTEK Omni Block Swivel Pulleys (quantity in kit=2)**

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**

**(2) 50' of 8 mm Edge Restraint with Sewn Eye**

High-strength, supple cord designed specifically for the AZTEK system. The 50-ft cord features a sewn eye for clean and secure attachment to the pulley. **MBS: 3,147 lb**

**(3) 6 mm Sewn Ratchet Prusiks (quantity in kit=2)**

Two prusiks allow progress capture from either end.

**(4) SafeD™ Carabiner**

Aluminum with removable captive eye pin for connecting Edge Restraint to Anchor. **MBS: 6,295 lb**

**(5) Steel Carabiner (quantity in kit=2)**

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**

**(6) 8 mm Steel Screwlink**

Attaches Travel Restraint to harness.

**(7) 6 mm Travel Restraint**

Adjustable sewn cord tied in purcell configuration, attaches rescuer to the Edge Restraint cord and allows them to safely work along the edge.

**(8) AZTEK Carrying bag**

Dual compartments for separating pulley system and Edge Restraint cord.



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

## AZTEK HD

The AZTEK HD takes this simple and versatile mechanical advantage rigging tool to the next level, with increased durability and cut resistance.

For those operating in the most severe environments, this iteration of our popular AZTEK features the extremely durable 8 mm SafeTech® cord for the edge restraint. The nylon core offers the right amount of give and packability, and is protected from abrasion and cutting by the Technora® sheath. This combination ensures you have the best blend of abrasion resistance, flexibility and resistance to flex fatigue.

The ratchets and travel restraint are made with a specialized 6 mm cord, that also uses the durable nylon/Technora construction featured in the edge restraint. Colored tracers in each ratchet offer convenient color coding for connecting to the appropriate block.

Weight: 3.8 lb / MBS: 36 kN

### KIT INCLUDES:

**(1) 2 AZTEK Omni Block Swivel Pulleys**

**(2) 50' of 8 mm SafeTech Edge Restraint**

**(3) 2 6 mm Sewn Ratchet Prusiks**

**(4) 3 SafeD Twistlock Carabiners**

**(5) 8 mm Steel Screwlink**

**(6) 6 mm Travel Restraint**

**(7) AZTEK HD Carrying Bag**



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

# Pocket Hauler Kit

## 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, adjusting directionals, positioning, piggyback hauling systems or as a rescue system, and can be set up as a 4:1 or 5:1.

**Weight:** 3.4 lb / **MBS:** 4,946 lb

### Kit Includes:

**(1) SR Mini-Double pulleys (quantity in kit=2)**

Machined aluminum pulleys are prusik-minding and provide efficient mechanical advantage. **MBS: 4,946 lb**

**(2) 50' of 8 mm cord with sewn eye**

**(3) Hawk™ autolock carabiners (quantity in kit=2)**

Asymmetrical D-shaped carabiner made from high-quality aluminum. **MBS: 6,295 lb**

**(4) 6 mm sewn ratchet prusik**

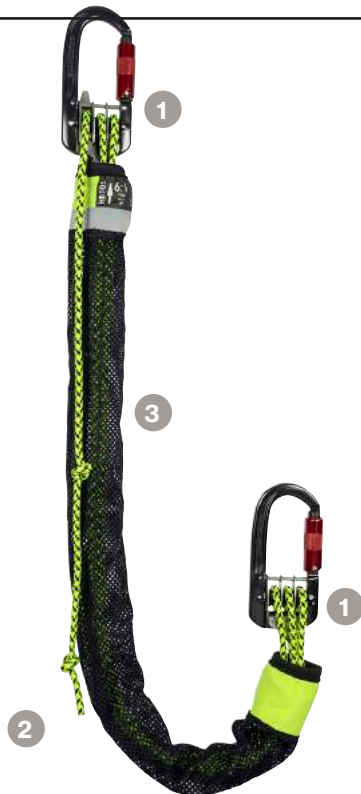
**(5) 8 mm Screwlink**

**(6) Carrying bag**

Dual compartment for separating the pulley system and Edge Restraint cord.



# Mini Hauler



## Light and easy to use for small jobs

This system is lightweight, compact and simple to use. The HaulerBiners create a 6:1 or 7:1 mechanical advantage and the progress capture camming unit allows for secure raising and easy lock off. The mesh sleeve surrounding the 6 mm cord prevents tangling during storage and deployment.

Load rated for 140kg (310lbs) 1 M (3.3ft) length

**MBS:** 1,142 lb

### Kit Includes:

**(1) HaulerBiners (quantity in kit=2)**

**(2) 6 mm cord**

**(3) Mesh Sleeve**

The Mini Hauler is used with the **Raise and Rescue Elite**. See page 33



# FCX™ Bucket Evac System

## A lightweight self-evacuation kit

The FCX Bucket Evac Kit is a compact, emergency egress system beneficial for utility personnel or arborists working alone in a lift. This kit features our FCX Descent Control Device with smooth modulation for easy control with one hand as well as a spring-loaded handle that stays out of the way until loaded. When paired with the SafeTech Escape Rope, this kit provides speedy evacuation when needed most.

**Weight:** 3.95 lb

### Kit Includes:

- (1) FCX Descent Control Device**  
Autolocking device with anti-panic function.
- (2) ANSI Snaphook**  
A double action snaphook made from steel. **MBS 4,491 lb, ANSI Z359**
- (3) ASD w/ Pin Carabiner**  
Aluminum D-shaped carabiner with a 3,600 lb gate and threaded captive eye pin.
- (4) 75' of 8.0 mm SafeTech Escape Rope**  
Technora sheath and a nylon core for strength, durability and heat resistance.
- (5) 24" 11/16" Nylon Sling**
- (6) Water-resistant, durable low-profile storage bag**



# PDQ2™ System

## Lightweight tower evacuation system

The PDQ2 is Sterling's lightweight evacuation system for use in all work-at-height environments. The PDQ2 descent-control device and the 6 mm XTEC™ heat-resistant Technora® rope form the core of this system whose total weight is under 10 lb. Rated for a user-load of 310 lb, the fully-assembled kit comes ready for deployment and its slim profile means it can be stored compactly and carried by each technician until needed. Certified up to 150M with custom lengths available.

**Weight:** 8.85 lb / **MBS:** 3,147 lb

### System Includes:

- (1) PDQ2 Descent Device**  
Autolocking, precision-machined aluminum device features an asymmetric cam with anti-panic capabilities. **ANSI Z359.4**
- (2) XTEC rope with sewn eye termination**  
This 6 mm cord is 100% Technora® in the sheath and core and is heat resistant over 900°F. Available in 100 M (328'), 150 M (492') and custom lengths.
- (3) ASD w/ pin carabiners (Quantity in kit = 2)**  
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 Z359.12**
- (4) Waterproof storage bag**  
Roll-top, low-profile storage bag with shoulder strap.





## Raise and Rescue Kit

The addition of the Raise and Rescue Kit converts the PDQ2 to a mechanical advantage system that can be used for simple and efficient victim raising and multidirectional transfers.

### Kit includes:

- (1) **Wire anchor slings (Quantity in kit = 2)**
- (2) **24" 11/16" Nylon Sling**
- (3) **Osprey™ oval autolock carabiners (Quantity in kit = 4)**  
Autolocking oval aluminum carabiners. **MBS: 5,171 lb**
- (4) **Micro Pulleys (Quantity in kit = 2)**  
Compact, machined aluminum pulleys that work with ropes up to 1/2".  
**MBS: 6,294 lb / EN 12278**



## Raise and Rescue Elite Kit

When paired with the PDQ2 escape system, the Raise and Rescue Elite makes for the lightest, most compact rescue package available. The mechanical progress capture feature allows for secure raising and simple operation, and the mesh sleeve surrounding the 6 mm cord prevents tangling during storage and deployment.

### Kit Includes:

- (1) **Mini Haul System**
- (2) **2 Wire Slings (1 shown)**
- (3) **HollowBlock2**
- (4) **2 Osprey Autolock Carabiners (1 shown)**



# Fire Kits and Systems

## *The go-to choice for personal escape systems*

Sterling pioneered the development of escape systems that allow rapid egress and self-rescue. Our escape kits and systems are built on a foundation of our proven ropes. In 2004, Sterling built the first 100% Technora® fire escape rope for FDNY. We now offer many options and configurations to suit the needs of various departments with different call areas. Here you'll find a list of our recommended setups, but if you need something customized to suit a unique set of requirements, contact us for a list of Sterling-approved Training Companies who are familiar with our escape kits and systems.

### *Our Fire Kits and Systems*

A **system** is a collection of components, certified end-to-end to the NFPA 1983 Standard for Escape Systems.

A **kit** is a collection of individually-certified components combined to perform together.

## Bailout: Rigging a Remote Anchor

When it comes to exiting an Immediately Dangerous to Life or Health (IDLH) environment, many factors need to be assessed. One primary bailout consideration is the choice of anchor. Though conditions may force the use of a sill anchor, the preferred option is to locate a suitably substantial object for remote anchor placement. In most cases, the closer to the exit point, the better. After an anchor is located, knowing how to secure the rope becomes paramount. Pictured are three options for connecting the rope.



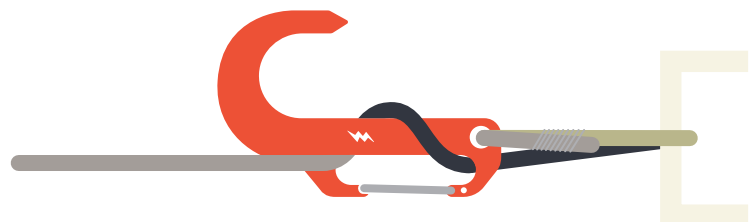
### **Good**

A knot can be used with any connector or hook.



### **Better**

A hook with a hitching slot, such as the Lightning™ Hook, can easily be secured by feeding a bight of rope through the handle and passing it back over the hook itself. Very secure and faster than a knot.



### **Best**

The Lightning GT™ features a unique gated slot on the back side of the hook that allows the rope to be quickly wrapped around the handle two or more times for a secure lock-off. No need to work with extra rope, pass over the device, or tie any knots. Simply click, click and go.

# FCX™ Escape Systems

With the introduction of the FCX Descent Device and the FireTech2 100% Technora® escape rope, we are now able to offer a wide range of the most advanced personal escape systems available. Our FCX systems are customizable with your choice of escape rope, anchor hook and storage bag. Each of these options comes pre-assembled with SafeD™ carabiners.

## Certified Systems Available:

### FireTech2 Systems: Certified to NFPA 1983: Escape System

- Crosby Hook with F4-50 Bag
- Lightning GT Hook with F4-50 Bag
- Lightning GT Hook with Escape Kit Pocket Bag (optional Extension Lanyard)

### SafeTech Systems: Certified to NFPA 1983: Escape System

- Lightning GT Hook with F4-50 Bag
- Lightning GT Hook with Escape Kit Pocket Bag (optional Extension Lanyard)

## (1) Lightning GT

- Ensures proper loading at the sill
- Precision-machined point provides secure penetration to the anchor material
- Can be used for partner/civilian rescue
- Gated slot can be used to create a remote anchor
- Can be used for partner/civilian rescue

## (2) FCX™ Device

- Click-To-Neutral Feature allows easy horizontal movement and improved payout at the sill
- 7.8 oz
- Elevated side rails eliminate glove interference and rope entrapment
- Automatically locks off when weighted
- Spring loaded handle
- Controlled braking

## (3) SafeD™ Carabiner

- Auto-locking aluminum carabiner with 3-stage gate
- Removable captive eye pin keeps carabiner oriented to prevent cross loading

## (4) FireTech2 with Sewn Termination

- 100% Technora
- Diameter: 7.5 mm
- MBS: 3,934 lbs

## (5) Abrasion Resistant Reinforced Pocket Bag

- Life of expensive turnout gear is extended by eliminating damage caused by hook wear through



# Roof Rescue Kit

Based on the FDNY configuration, this kit offers a top down rescue option for firefighters or civilians who may be stranded at a window during a structure fire. The 100% Technora H3 Tech125 offers the best heat resistance of Sterling's line of Technora ropes and features indicator markings every meter to indicate distance and speed of deployment. The attachment end features a shock pack to limit impact forces on the rescuer and the anchor. The simple-to-use D5 descender controls one- or two-person loads during a pickoff, and the included chafe guard protects against damage at the parapet.

For more information on proper use of this kit, please contact one of our recommended training companies.

## Kit includes:

- (1) H3 Tech 125 x 125'**  
with 2 sewn eyes and markers every meter
- (2) Kevlar shock pack sewn to one end**
- (3) Aluminum NFPA (quantity in kit = 3)**  
G-rated captive eye carabiners with simple locking gates for ease of operation with gloved hands
- (4) SafeGuard rope protector**
- (5) D5 Descender**
- (6) Double Ended Rope Bag**  
For ease of access to both the operational and anchor end

## Roof Rescue Kit



# Large Area Search Kits

## FDNY Search Kit



## RIT Response Kit



## Tools for high-hazard search situations

Search kits are an integral tool for fire departments performing large area search. We've revamped our offerings to include 3 options. The newest kit, the FDNY Search Kit, was built to the exacting specifications of FDNY. This large area search kit comes with conical distance indicators every 25 feet to indicate distance and direction to the exit. The 200 feet of rope is package in a sturdy vinyl bag with quick release shoulder strap and has a large snaphook sewn to the end for easy attachment to a stationary object. The RIT Response Kit and Sterling SearchLite Kit feature a messenger bag with 220 feet of rope and a large snaphook at one end. Rope options are the heat resistant 9 mm RIT Response rope or the 7.5 mm SearchLite with reflective tracers and a nylon/Technora core.

### FDNY Search Kit includes:

- (1) 200' of SearchLite rope with heat-resistant directional cones**
- (2) Locking double action Aluminum Swivel Snaphook**
- (3) Vinyl search bag with quick release buckle**

### RIT Response Kit and Sterling SearchLite Kits Include:

- (1) 220' of heat resistant search rope** (RIT Response or SearchLite)
- (2) Locking double action Aluminum Snaphook**
- (3) Search bag with reflective trim.**
- (4) Swivel Snaphook** (not shown)

# Build a Custom Fire Escape System

## 1. Choose a Rope

The heart of any escape system is the rope. Sterling's ropes offer the perfect balance of strength, heat resistance, and compatibility with all the components of the escape system.



**FireTech2™**  
NFPA 1983: Fire Escape



**SafeTech™**  
NFPA 1983: Fire Escape

## 2. Descent Control Device

Safe, controlled descent is critical to escape systems. It's also important that the descent control device is auto locking, easy to use with either hand, and has good modulation characteristics.



**FCX™**  
NFPA 1983: Escape Descent Device

## 3. Select an Anchor

Hooks have become a popular choice for anchors because they can be placed remotely or secured at a window sill in situations where a remote anchor is not feasible. We offer two versions of our lightweight, machined aluminum Lightning™ hooks and the classic steel Crosby® hook.



**Lightning Hook™**  
NFPA 1983:  
Escape Anchor



**Lightning GT Hook™**  
NFPA 1983:  
Escape Anchor



**Crosby Hook**  
NFPA 1983:  
Escape Anchor

## 4. Choose Attachments

The escape kit requires a secure connection to the fire fighter's body. Escape harnesses or belts must be lightweight, not create an additional snag hazard and be easy to integrate into turnout gear.

The Bolt Belt was designed to minimize weight and bulk, while still providing a secure, certified escape option. It easily integrates into most turnout pants with little or no modifications to the turnouts.

Extension lanyards are required without an A frame style harness.



**Bolt Escape Belt**  
NFPA 1983: Heat Resistant  
Kevlar Escape Belt



**SafeD™ Carabiner**  
NFPA 1983: Technical



**Tech Extension Lanyard™**

## 5. Select a Storage Option

Sterling's three storage configurations allow kits to connect to a harness and be carried in ready-to-use mode. Each of these options store 50' of rope, an anchor hook and descent device.



**New FCX FireTech2 Escape System with Lightning Hook.**



**F4-50 Bag**



**Mercury Lumbar Bag**

# Hardware

Twenty-five 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, our hardware is engineered and manufactured with precision to yield products with exceptional performance.

## Carabiners and Snaphooks



### Carabiners

We offer a complete line of carabiners in a wide array of shapes, locking patterns and colors, most of which are rated to the highest CE and NFPA safety standards.

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	No
Eagle SL	5,620	1,574	1,574	No	No
Falcon AL	5,620	1,574	1,574	No	No
Falcon ALT	5,620	1,574	1,574	No	No
Falcon SL*	5,620	1,574	1,574	No	No
Falcon SLT	5,620	1,574	1,574	No	No
Hawk AL	6,295	1,574	1,574	No	No
Hawk SL	6,295	1,574	1,574	No	No
Osprey AL	5,171	1,574	1,349	No	No
Osprey SL	5,171	1,574	1,349	No	No
SR Steel AL**	10,116	3,597	4,047	Yes	No
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

\* Also available in black  
 \*\* Meets ANSI Z359.12



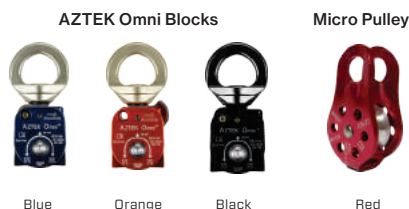
### Snaphooks

The snaphook provides an eye for permanent attachment of a lifeline or lanyard. Available in aluminum with a double or triple-action gate, perfect for customization.

Name	MBS (lb)	ANSI Z359	CE
Double Action Aluminum	6,294	No	Yes
Triple Action Aluminum	6,070	No	Yes

MBS=Three-sigma minimum break strength

## Pulleys



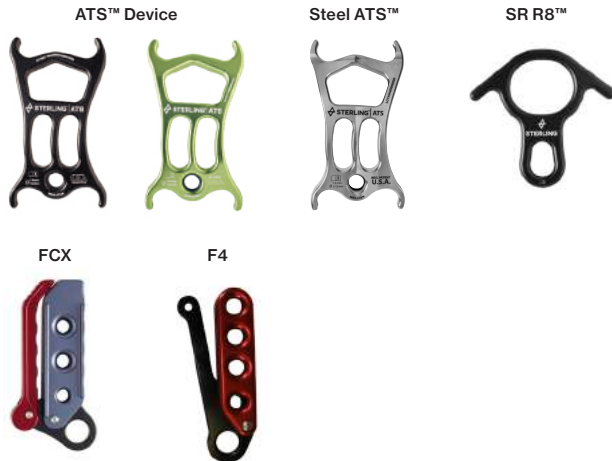
Essential bits of hardware for many rigging applications, our pulleys are designed to integrate with a wide variety of rope types and meet the highest standards for smooth operation and safety.

Name	End-to-end MBS (lb)	Max Diameter (in)	NFPA 1983	CE EN 12278
AZTEK™ Omni Block	8,093	5/16	No	Yes
Micro	6,294	1/2	No	Yes

MBS=Three-sigma minimum break strength

AZTEK Omni Blocks are only sold in pairs.

# Descent Control and Rigging



Our rigging and descent control devices all share a few common traits that make them uniquely Sterling: They're simple to use and they're incredibly strong and durable. We've thought through each device's intended use and then stripped away all unnecessary complications that might make a device difficult to use or suffer failures.

Name	MBS (lb)	NFPA 1983	Weight (oz)
<b>ATS™ Device</b>	5,170	-	3.2
<b>Steel ATS™</b>	10,116	-	25
<b>SR R8™</b>	4,945	No	6.4
<b>FCX</b>	3,035	Yes	6.4
<b>F4</b>	3,035	Yes	6.4

MBS=Three-sigma minimum break strength

# Anchors

Lightning GT



## Hooks

Aircraft-grade aluminum and forged steel bring strength and durability to our fire escape hooks. We took the basic Crosby Hook and improved the design, and the Sterling Lightning Hooks are lighter and allow more anchoring options for rapid egress.

Name	MBS (lb)	NFPA 1983
<b>Lightning GT Hook</b>	3,035	Yes

MBS=Three-sigma minimum break strength

# Rope Bags

## PDQ2 Replacement bag

This rugged, rolltop bag is weather resistant and provides a perfect carrying solution for the PDQ rescue system. The internal gear attachment loop keeps the hardware organized, and the bag functions as a rope bucket for easy deployment of the rope on lowers and rappels.



## Pickle Bucket Climb Tote™

The climber's bucket bag designed for the gym with bonus features to get you to the crag or farmer's market.

## SafeGuard™

The SafeGuard is designed for rope protection—a critical separator between rope and jagged edge that allows ropes to move freely while avoiding abrasion 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. Length: 18"



## Rope Bags NEW

Rope bags made with durable twill poly and a liner, they come in 3 sizes: Small (17L), Medium (31L) and Large (45L). Each bag comes with comfortable shoulder straps, a WLL clearly marked on the outside, clear document pocket, information patch on bottom, rope tie off inside as well as a drainage hole in the bottom of the bag.

**Size (Color):** Small (Yellow), Medium (Blue), Large (Red)

Size	Bag Dimensions			Rope Capacity (ft)			
	Volume (ltr)	Height (in)	Diameter (in)	3/8"	7/16"	1/2"	5/8"
<b>Small</b>	118	0.5	No	61m (200ft)	46m (150ft)	x	x
<b>Medium</b>	225	1.0	No	92m (300ft)	61m (200ft)	61m (200ft)	46m (150ft)
<b>Large</b>	270	1.2	No	183m (600ft)	92m (300ft)	92m (300ft)	61m (200ft)



# Cord and Webbing

## Sewn Cord



### HollowBlock2™

Our bestselling friction hitch and autoblock has been redesigned with a stronger aramid fiber. The 6.8 mm HollowBlock2 is made of 100% Technora® fiber for increased abrasion resistance and improved durability. It's gripping ability comes from the unique hollow-braid construction, for use as a prusik or Klemheist knot on ropes 7 mm or larger. Also available in tan. MBS Rating (lb): 3,147 / MBS Rating (kN): 13.0



### 6 mm AutoBlock

Ideal as a back-up while on long rappels, we constructed our AutoBlock from a durable 6 mm cord sewn into a 13.5-inch loop. The AutoBlock attaches from the harness to the brake-hand end of the rappel rope just below the rappel device and works as a prusik or Klemheist knot. MBS Rating (lb): 2,810 / MBS Rating (kN): 12.5



### 6 mm Purcell

For tricky emergency two or three-point ascending, an adjustable connection point or self-belay, our sewn 6 mm Purcell's strength, durability and adjustability shine. Color-coded lengths provide easy identification. MBS Rating (lb): 2,810 / MBS Rating (kN): 12.5. Three lengths available: Chest: 20", Short: 42", Long: 68".



### 7 mm Bearer Tie-In

The Bearer Tie-In, also known as the Foot-End Spider, is used in sets of 2 and they attach from the foot-end of the litter to the foot-end, set-of-fours, or haul point. These cords are set up as purcells to allow for adjustment on steep angle evacuations. 7 mm x 34" sewn in a bound loop. MBS Rating (lb): 3,822 / MBS Rating (kN): 17.0



### 7 mm Head-End Litter Spider

The Head-End Litter Spider is used in sets of 2 and attach from the head-end of the litter to the haul point. These cords are set up as purcells to allow for adjustment on steep angle evacuations. 7 mm x 68" sewn in a bound loop. MBS Rating (lb): 3,822 / MBS Rating (kN): 17.0



### 8 mm Bound Loop Prusik

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. MBS: 4,496 lb / 16" and 22" lengths. 6 colors (see 8 mm cord on page 45)

We offer a wide variety of high quality and high performance cordage and cordage devices. Functional and safe cords are indispensable items for various work applications. Each cord we make meets the same high standards we apply to every Sterling product.

Name/Diameter	MBS (lb)	MBS (kN)
HollowBlock2™	3,147	14.0
6 mm AutoBlock	2,810	12.5
6 mm Purcell	2,810	12.5
7 mm Bearer Tie-In	3,822	17.0
7 mm Head-End Litter Spider	3,822	17.0
8 mm Bound Loop Prusik	4,496	20.0

MBS=Three-sigma minimum break strength

## RIT Bound Loop Prusiks

The gold-standard in friction hitch cords are heat resistant, easy to use and come in 8 mm and 9 mm versions. These prusiks offer arborists durable, versatile tools for rigging, climbing and lanyard adjustment. Available with ring. 16" length.



## RIT Thimble Prusik

RIT Thimble Prusik: 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.**



## RIT Eye-and-Eyes

Our RIT Hitch Cords provide consistent friction in a wide variety of situations thanks to their 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 sacrificing strength or grip. **ANSI Z133.** 8 mm: 28", 30" and 32" lengths / 9 mm: 28", 30", 32" and 36" lengths.



## Flex™ Hitch Cord

Our newest hitch cords are 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.** Available in 8 mm and 10 mm: 28", 30" and 32" lengths.



Name/Diameter	End-to-End MBS (lb)	End-to-End MBS (kN)
RIT Bound Loop Prusiks	5,418	24.1
RIT Thimble Prusik	5,418	24.1
RIT 9mm Eye to Eye	3,147	14.0
RIT 8mm Eye to Eye	2,472	11.0
8 mm Flex™ Hitch Cord	3,597	16.0
10 mm Flex™ Hitch Cord	5,395	24.0

MBS=Three-sigma minimum break strength

\* Straight pull

# Lanyards, Fliplines and Anchors

Name	MBS (lb)	MBS (kN)	Lengths available
TriTech Flipline	5,418	24.1	10, 12, 16'
UP Lanyard	5,418	24.1	10, 12'

MBS=Three-sigma minimum break strength

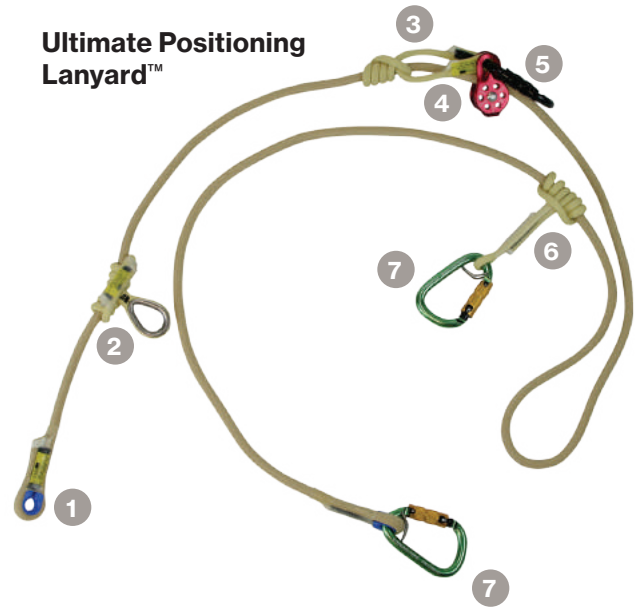
## Ultimate Positioning Lanyard™

The Ultimate Positioning Lanyard is made with our TriTech™ rope, which features a Spectra® “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.

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

### Ultimate Positioning Lanyard Includes:

1. TriTech™ Lanyard (12' and 16')
2. RIT 8 mm Thimble Prusik
3. RIT 8 mm Eye and Eye 30"
4. ISC Micro Pulley
5. Osprey™ AL Carabiner
6. RIT 8 mm Bound Loop Prusik
7. (2) Sterling Falcon Talon™ Carabiners



TriTech™ Flipline

## TriTech™ Flipline

This 11 mm rope features our unique Technora® sheath, Spectra® 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.

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

Shown with optional triple action aluminum snaphook.

CORD & WEBBING

### Customize Your Flipline

Our Fliplines come standard with sewn eye terminations. Further customize your flipline—cut to your preferred length and request integrated hardware from the factory. Hardware options include:



## SafetyPro Lanyard

This static lanyard allows for safe connections to rope access and positioning equipment. Available in 0.6, 0.8, 1 m lengths.



SafetyPro Lanyard

## Phenom™ Dynamic Lanyard

A 10.3 mm dynamic rope lanyard for work positioning and back-up connection. Sewn terminations provide accurate lengths and eliminate bulky knots. Keepers on the sewn eye protect the stitching and keep carabiners properly oriented. Available in 0.4, 0.5, 0.6, 0.8 and 1 m lengths.

### Key Benefits:

- High strength sewn terminations
- Plastic keeper protects stitching
- Different colors for different lengths
- Made from EN 892/UIAA 101 certified dynamic rope

Name	MBS (lb)	MBS (kN)	Lengths available
SafetyPro Lanyard	5,170	23.0	0.6, 0.8, 1 m
Phenom™ Dynamic Lanyard	5,411	24.1	0.4, 0.5, 0.6, 0.8, 1 m
Adjustable Retrievable Anchor	5,418	24.1	60"

MBS=Three-sigma minimum break strength



40 cm Yellow



50 cm Red



60 cm Yellow



80 cm Blue



100 cm Red

## Adjustable Retrievable Anchor™

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.

**Length:** 60" / **MBS:** 5,418 lb

### Anchor Includes:

- (1) SafetyPro Lanyard with Aluminum Ring
- (2) RIT Bound Loop Prusik with Ring 18"



# Accessory and Prusik Cord

Accessory cords are designed and produced with the same construction methods and high quality yarns as our ropes. Our 6-9 mm cords are built with the right amount of softness, yet are durable for anchor building, prusik use and other life-safety applications.

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564
1.5 mm	118	0.5	No
2 mm	225	1.0	No
2.75 mm	270	1.2	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,146	5.1	Yes
6 mm	1,843	8.2	Yes
7 mm	2,765	12.3	Yes
8 mm	3,574	15.9	Yes
550 Cord	550*	2.4	No

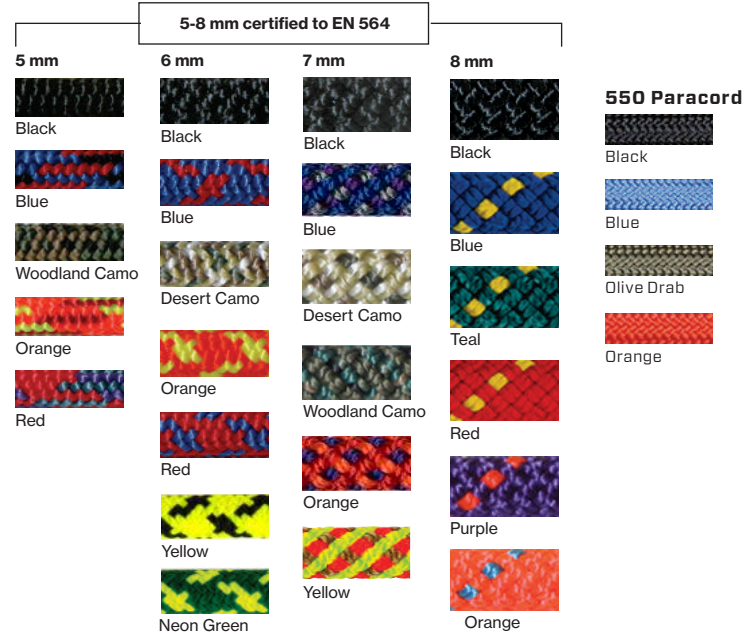
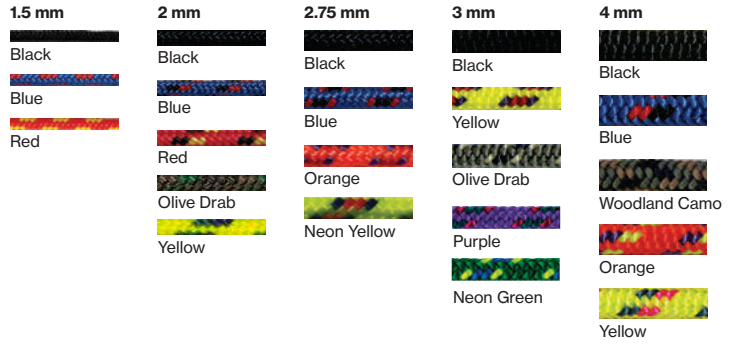
MBS=Three-sigma minimum break strength  
\*Average, not minimum



Many cords come in a variety of precut lengths or spools for additional convenience.



This bag is 100% biodegradable.



## GloCords™

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

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564
2.75 mm	270	1.2	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,146	5.1	Yes

MBS=Three-sigma minimum break strength



## High Tenacity Cords



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.

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564	Fibers (core/sheath)
5.4 mm V-TX Cord™	3,372	15.0	No	Dyneema®/ Polyester
5.9 mm PowerCord™	4,384	19.5	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

MBS=Three-sigma minimum break strength

# Sewn Webbing



## Anchor Strap

High-strength nylon webbing 1.75" wide and steel closures facilitate fast and secure anchoring in basket, end-to-end and choke configurations.

Basket MBS = 13,488 lb, MBS (kN) 60; Choke MBS Rating 6,295 lb, MBS (kN) 28 / **NFPA 1983: Technical**



## Pickoff Strap

Adjustable pickoff strap allows slack to be removed from system before transferring a load. Provides a durable anchor in two configurations: basket and straight line.

Basket MBS = 8,992 lb



## 1" 9800 Rabbit Runner

Uses our high-strength 9800 webbing with sewn eyes on each end for specialty rigging applications such as extending anchors. Rated for life-safety applications.

End-to-end MBS: 8,093 lb (36 kN)  
Basket MBS: 16,358 lb (72.8 kN)



## Chain Reactor

Made from our 11/16" nylon webbing, these full-strength interlocked loops are safer alternatives to traditional daisy chains. The Pro version has a doubled tethered connection, while the Long version has four additional loops.

Basket MBS = 5,418 lb; Choke MBS Rating 2,810 lb



## BARC2.0™

A multiuse, adjustable rigging chain made from our 1" 9800 nylon sewn webbing. When set up as an anchor, the BARC's versatility accommodates almost any job site scenario and can create multiple rigging points for lifting.

Red/Blue (8.5')

Available in 5', 8.5', 12' and 16' lengths

MBS: 6,182 lb; 11,240 lb (individual loops); Basket MBS = 11,240 lb; Choke MBS Rating = 5,845 lb; 6,182 lb (end-to-end)



## AnCORE Slings

1" nylon slings with colored core, are life safety anchors used as a connection to fall protection or rope rescue systems for personnel working at height. These slings are ideal for use on towers, refineries, bridges, wind turbines and in rescue scenarios.



## Nylon Slings

Our nylon slings are offered in three different styles and diameters using precisely programmed tack-stitching to guarantee high quality and strength for a myriad of uses. See SterlingRope.com for color and length availability.



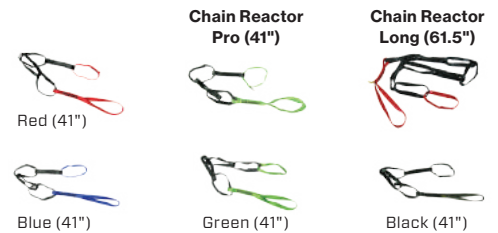
## Dyneema® Slings

Dyneema slings offer significant performance advantages over traditional runners. They are lightweight, have high cut resistance, are extremely strong, and naturally repel moisture.

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.

Product	End-to-end MBS (lb)	MBS (kN)	Lengths Available
<b>Anchor Strap</b>	6,744	30.0	3, 6'
<b>Pickoff Strap</b>	4,496	20.0	10-59"
<b>1" 9800 Rabbit Runner</b>	8,093	36.0	4, 6, 8'
<b>Chain Reactor™</b>	3,147	14.0	41, 61.5"
<b>BARC 2.0™</b>	9,000	40	103, 60"

MBS=Three-sigma minimum Break



Sterling BARC and Chain Reactors are certified to **EN 795B**.

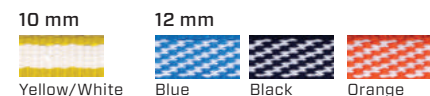


## Lifting Slings

These small, lightweight slings are perfect for your light-duty rigging tasks. Available in 12mm Dyneema, 11/16" Nylon or 1" Flat Nylon, these slings are labeled and compliant to the ASME B30 standard for lifting and rigging slings..

Sling Name	MBS (lb)	MBS (kN)	WLL (lb)	Lengths Available	CE EN 566
<b>10 mm Dyneema® sling</b>	5,170	23	-	24, 48"	No
<b>12 mm Dyneema sling</b>	5,170	23	1,124	10, 24, 30, 48"	No
<b>11/16" Nylon sling</b>	5,170	23	900	12, 24, 30, 48"	No
<b>1" Tubular nylon sling</b>	5,170	23	-	12, 24, 36, 48"	No
<b>1" Flat nylon sling</b>	11,240	50	3,147	48, 72, 96, 120"	No

MBS=Three-sigma minimum Break



# Bulk Webbing

Our fine webbing is available in bulk spools so you can cut custom lengths for any possible use.

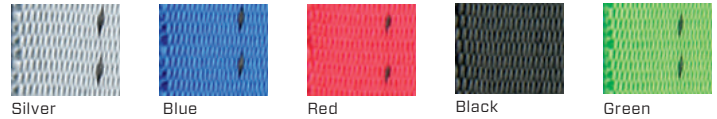
Name/ Diameter	MBS (lb)	MBS (kN)	Lengths Available
<b>11/16" Tubular</b>	3,000	13.3	300' spool
<b>1" Tech Tape Tubular</b>	4,000	17.8	30' web wheel and 300' spool
<b>1" Mil-Spec Tubular</b>	4,000	17.8	30' web wheel and 300' spool
<b>1" Type 18 Flat</b>	6,000	26.7	300' spool
<b>1" Type 9800 Flat</b>	9,800	43.6	150' spool

MBS=Three-sigma minimum Break

## 11/16" Tubular

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

MBS: 3,000 lb / 300' spool

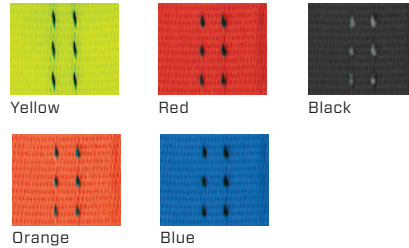


## 1" TechTape™ Tubular

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

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

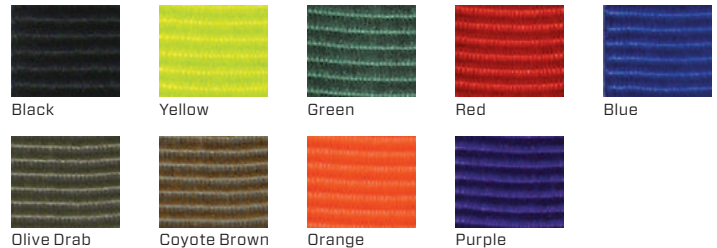
Web Wheel Colors: Blue, Red, Yellow, Black



## 1" Mil-Spec Tubular

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.

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



## 1" Type 18 Flat / 1" 9800 Flat

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.

MBS: 6,000 lb / 9,800 lb

Type 18 300' spool, 9800 150' spool



# Our Training Center

For training companies and organizations who need to teach or certify employees in rope-rescue techniques, the training center is a valuable resource. Key features in the simulation training space are a free-standing 30-ft. radio tower, a vertical wall with removable window and door plugs for bailout training, and anchors for practicing edge, raise and rescue, and hauling operations.

Conveniently located in Biddeford, Maine, the Training Center is 20 minutes south of the Portland Jetport, with easy access to Portland's scenic coastline, downtown shopping, and renowned restaurant scene.

To schedule your next training at the Sterling Training Center.



Practicing descent techniques in the training center.



Matt Hunt demonstrating escape kits and systems to a fire department.



Practicing tower rescue from a ladder safety system.



Having access to an indoor training facility is a real benefit to organizations that need to provide at-height training to their employees. The clean controlled environment makes for a great setting for learning.

**- Justin Pitts**  
East Coast  
Communications  
Safety Director &  
Tower Rescue Trainer





# Technical Specifications

## Static Ropes

### SYNC

#### Technical Specifications

Diameter (mm)	11.0
Weight (lb/100')	5.9
MBS Rating (lb)	9,014
MBS Rating (kN)	40.1
Elongation at 300 lb (%)	4.3
Core/Sheath	Nylon/Polyester
Certification	NFPA 1983 (G) / ANSI Z133
Lengths Available	46, 64, 92, 183m

### HTP

#### Technical Specifications

	9 mm HTP	3/8" HTP	7/16" HTP	1/2" HTP	5/8" HTP
Diameter (mm)	9.0	10.0	11.0	12.5	16.0
Weight (lb/100')	4.3	5.3	6.5	8.0	12.5
MBS Rating (lb)	4,496	5,979	6,856	9,081	12,993
MBS Rating (kN)	20.0	26.6	30.5	40.4	57.8
ABS Rating (lb)	5,058	6,784	7,568	10,507	15,173
ABS Rating (kN)	22.5	30.2	33.7	46.7	67.3
Elongation at 300 lb (%)	1.6	1.4	1.9	1.0	1.6
Elongation at 10% MBS (%)	2.0	2.8	4.0	2.0	2.8
Core/Sheath	Polyester/Polyester	Polyester/Polyester	Polyester/Polyester	Polyester/Polyester	Polyester/Polyester
Certification		NFPA 1983 (T)	NFPA 1983 (T) / ANSI Z 359.15	NFPA 1983 (G) / ANSI Z 359.15	NFPA 1983 (G) / ANSI Z 359.15
Lengths Available	150, 200, 300, 600, 660'   46, 61, 92, 183, 200 m				

### WorkPro

#### Technical Specifications

	3/8" WorkPro	7/16" WorkPro	1/2" WorkPro
Diameter (mm)	10.0	11.0	12.5
Weight (lb/100')	4.5	5.6	7.4
MBS Rating (lb)	6,519	8,092	10,116
MBS Rating (kN)	29.0	36.0	45.0
MBS Figure 8 (kN)	>15	>15	>15
ABS Rating (lb)	7,316	9,586	10,520
ABS Rating (kN)	32.5	42.6	46.8
Elongation at 300 lb (%)	3.5	3.5	3.3
Elongation at 10% MBS (%)	8.4	9.4	9.8
50-150 kg Elongation (%)	2.6	2.8	1.7
Sheath Percentage (%)	44.7	36.0	35.8
Sheath Slippage (%)	0.0	0.4	0.0
Shrinkage (%)	0.8	2.4	1.9
Core/Sheath	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
EN 1891 Falls	>5	>5	>5
EN 1891 Impact (kN)	5.5	5.8	5.5
Certification	EN 1891 (A), NFPA 1983 (T)	EN 1891 (A), NFPA 1983 (T)	EN 1891 (A), NFPA 1983 (G)
Lengths Available	150, 200, 300, 600, 660'   46, 61, 92, 183, 200 m		

# Static Ropes

## SuperStatic2

### Technical Specifications

	3/8" SuperStatic2	7/16" SuperStatic2	1/2" SuperStatic2
Diameter (mm)	9.5	11.0	12.5
Weight (lb/100')	4.2	5.5	6.8
MBS Rating (lb)	4,945	6,519	9,239
MBS Rating (kN)	22.0	29.0	41.1
ABS Rating (lb)	5,467	7,402	9,382
ABS Rating (kN)	24.3	32.9	41.7
Elongation at 300 lb (%)	3.3	3.2	1.5
Elongation at 10% MBS (%)	6.2	7.0	6.2
Core/Sheath	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon
Certification	NFPA 1983 (T)	NFPA 1983 (T)	NFPA 1983(G) / ANSI Z359.15
Lengths Available	150, 200, 300, 600, 660'   46, 61, 92, 183, 200m		

ABS=Average break strength, MBS=Three-sigma minimum break strength

## SafetyPro

### Technical Specifications

	9 mm SafetyPro	10 mm SafetyPro	10.5 mm SafetyPro	11 mm SafetyPro
Diameter (mm)	9.0	10.0	10.5	11.0
Weight (lb/100')	3.4	4.2	4.7	5.1
MBS Rating (lb)	4,271	5,575	6,114	7,306
MBS Rating (kN)	19.0	24.8	27.2	32.5
MBS Figure 8 (kN)	>12	>15	>15	>15
EN 1891 Falls	>5	>5	>5	>5
EN 1891 Impact (kN)	4.4	5.9	5.8	5.9
Elongation at 300 lb (%)	1.9	4.5	2.8	3.3
Elongation at 10% MBS (%)	4.2	7.6	6.0	8.4
50 kg/150 kg Elongation (%)	3.4	3.3	3.4	3.4
Sheath Percentage (%)	42.0	40.1	47.1	41.4
Sheath Slippage (%)	0.0	0.0	0.0	0.0
Shrinkage (%)	1.8	1.7	1.8	2.0
Core/Sheath	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon	Nylon/Nylon
Certification	EN 1891 (B)	EN 1891 (A)	EN 1891 (A)	EN 1891 (A)
Lengths Available	165, 200, 300, 600, 660'   50, 61, 92, 183, 200 m			

## Scion & Element

### Technical Specifications

	7/16" Scion	1/2" Scion	12.8 Element
Diameter (mm)	11.5	12.5	1/2"
Weight (lb/100')	6.1	7.2	7.8
MBS Rating (lb)	6,744	7,193	6,740
MBS Rating (kN)	30.0	32	30.0
Sewn Eye MBS Rating (lb)	4608	6,115	5,732
Sewn Eye MBS Rating (kN)	20.5	27.2	25.5
ABS Rating (lb)	7,643	7,935	7,190
ABS Rating (kN)	30.0	35.3	32.0
Elongation at 300 lb (%)	1.5	1.7	-
Elongation at 10% MBS (%)	3.8	4.2	5.2
Sheath Percentage (%)	48.6	47.1	72
Sheath Slippage (%)	0.3	0.5	0
Shrinkage (%)	-0.8	2.6	-
Core/Sheath	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
Certification	EN 1891 (A), ANSI Z133	EN 1891 (A), ANSI Z133	-
Lengths Available	120, 150, 200, 600'   37, 46, 61, 183 m		

## Atlas

Technical Specifications	1/2" Atlas	9/16" Atlas	5/8" Atlas	3/4" Atlas
Diameter (mm)	13.0	14.0	17.0	19.0
Weight (lb/100')	7.9	8.9	13.5	17.3
MBS Rating (lb)	10,800	13,000	18,000	18,147
MBS Rating (kN)	48.0	57.8	80.0	80.7
ABS Rating (lb)	11,500	13,750	19,400	22,480
ABS Rating (kN)	51.1	61.1	86.3	100.0
Elongation at 300 lb (%)	0.9	0.8	0.4	0.3
Elongation at 10% MBS (%)	4.1	4.5	4.5	4.3
Sheath Percentage (%)	49.0	43.0	40.0	41.0
Core/Sheath	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester	Nylon/Polyester
Lengths Available	150, 200, 600'   46, 61, 183 m			

## TechRopes

Technical Specifications	OpLux™	Tactical Response™	Tech HTP	Tech11™
Diameter (mm)	8.0	9.5	11.0	11.0
Weight (lb/100')	2.8	4.2	95	5.9
MBS Rating (lb)	5,440	6,744	8,090	9,014
MBS Rating (kN)	24.2	30.0	36.0	40.1
Elongation at 300 lb (%)	3.3	3.4	1.5	3.4
Core/Sheath	Spectra/Technora & Polyester	Nylon/Technora	Polyester/ Technora	Nylon/Technora
Certification	-	NFPA 1983 (T) / EN 1891 (B)	NFPA (T) / ANSI Z359.15	NFPA 1983 (G) / EN 1891 (A)
Lengths Available	100, 150, 200, 300, 660' 30, 46, 61, 92, 200 m"	150, 200, 300, 600, 660' 46, 61, 92, 183, 200 m	46, 61, 92, 183, 200 m	150, 200, 300, 600, 660' 46, 61, 92, 183, 200 m

## TechRopes cont.

Technical Specifications	Tech125™	H3 Tech11™	H3 Tech125™
Diameter (mm)	12.5	11.0	12.5
Weight (lb/100')	7.0	6.0	7.6
MBS Rating (lb)	10,183	9,576	9,441
MBS Rating (kN)	45.3	42.6	42.0
Elongation at 300 lb (%)	2.1	1.1	1.0
Core/Sheath	Nylon/Technora	Technora	Technora
Certification	-	-	NFPA 1983 (G)
Lengths Available	200, 600'   61, 183 m		

ABS=Average break strength, MBS=Three-sigma minimum break strength

# Dynamic Ropes

## 8.9 Nano IX, Ion R & Aero

Technical Specifications	8.9 Nano IX	Ion R	Aero
UIAA Certification	Single   Half   Twin	Single	Single   Half   Twin
Diameter (mm)	9.0	9.4	9.2
Weight (g/m)	52	56	56
Impact Force (kN)	8.5   6.6   10.4	8.8	8.8/6.6/10.1
Dynamic Elongation (%)	33.1   27.6   25.3	31.3	30.2/28.9/23.6
Static Elongation (%)	7.0   7.0   3.6	8.4	7.5/7.4/6.1
Sheath Percentage (%)	29	38	41
UIAA Falls	6   16   >20	6	7/21/>20
Dry Treatment	DryXP	XEROS	XEROS
Bicolor or Bipattern Available	Bicolor: 60, 70 m	-	Bicolor: 60, 70, 80 m
Certification	EN 892 UIAA 101	EN 892 UIAA 101	EN 892 UIAA 101 Half and Twin Rope
Lengths Available	30, 40, 50, 60, 70, 80 m	40, 50, 60, 70, 80 m	50, 60, 70, 80

## Velocity & T10

Technical Specifications	Velocity	T10
UIAA Certification	Single	Single
Diameter (mm)	9.8	10.0
Weight (g/m)	62	65
Impact Force (kN)	8.6	9.0
Dynamic Elongation (%)	28.8	30.0
Static Elongation (%)	8.6	8.0
Sheath Percentage (%)	35	35
UIAA Falls	6	8
Dry Treatment	XEROS	XEROS
Bicolor or Bipattern Available	-	Bipattern: 60, 70 m
Certification	EN 892 UIAA 101	EN 892 UIAA 101
Lengths Available	35, 40, 50, 60, 70, 80 m	60, 70 m

# Fire Ropes

## Search Ropes

Technical Specifications	RIT 900™	SearchLite™	RIT Response™
Diameter (mm)	6.8	7.5	9.0
Weight (lb/100')	1.8	2.2	4.2
MBS Rating (lb)	4,136	3,012	6,968
MBS Rating (kN)	18.4	13.4	31.0
Elongation at 300 lb (%)	2.6	1.6	1.9
Core/Sheath	None/Twaron	Nylon & Technora/Nylon	Polyester/Twaron
Lengths Available	39, 50, 150, 200, 300, 600, 660' 12, 15.5, 46, 61, 92, 183, 200 m	50, 200, 220' 15.5, 61, 67 m	150, 200' 46, 61 m

ABS=Average break strength, MBS=Three-sigma minimum break strength

## Fire Ropes

Technical Specifications	FireTech2™	EscapeTech™	SafeTech™	8 mm PER
Diameter (mm)	7.5	7.5	8.0	8.0
Weight (lb/100')	4.2	2.8	2.8	2.9
Weight (lb/50')	2.1	1.4	1.4	1.4
MBS Rating (lb)	5,732	3,911	4,383	3,484
MBS Rating (kN)	25.5	17.4	19.5	15.5
ABS (lb)	6,546	4,657	5,322	4,504
ABS (kN)	29.1	20.7	23.7	20
Elongation at 300 lb (%)	1.6	5.8	6.3	7.4
Core/Sheath	Technora/Technora	Nylon/Technora	Nylon/Technora	Nylon/Nylon
NFPA Elevated Temp Test @ 400c	>5:30	>5:30	>5:30	-
NFPA Elevated Temp Test @ 600c	1:27	1:28	1:22	-
Certification	NFPA 1983 (FE)	NFPA 1983 (FE)	NFPA 1983 (FE)	NFPA 1983 (E)
Lengths Available	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m	40, 50, 200, 600'   12, 15.5, 61, 183 m	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m	40, 50, 150, 200, 300, 600'   12, 15.5, 46, 61, 92, 183 m

## Water Rescue Ropes

### Water Rescue

Technical Specifications	1/4" UltraLine	3/8" UltraLine	3/8" Grabline
Diameter (mm)	6.5	9.5	9.5
Weight (lb/100')	1.3	2.6	3.1
MBS Rating (lb)	2,495	5,237	3,282
MBS Rating (kN)	11.1	23.3	14.6
Elongation at 300 lb (%)	1.4	1.2	4.2
Core/Sheath	Spectra/Polypropylene	Spectra/Polypropylene	Nylon/Polypropylene
Certifications	-	-	NFPA 1983 (TL)
Lengths Available		75, 150, 200, 300, 600, 660'   23, 46, 61, 92, 183, 200 m	75, 300, 600, 660'   23, 92, 183, 200 m

### Water Rescue

Technical Specifications	5/16" WaterLine	3/8" WaterLine	7/16" WaterLine	1/2" WaterLine
Diameter (mm)	8.0	9.5	11.0	12.5
Weight (lb/100')	2.1	3.3	4.3	5.2
Weight (g/m)	31.2	49.1	64.0	77.4
MBS Rating (lb)	1,371	3,416	4,271	5,754
MBS Rating (kN)	6.1	15.2	19.0	25.6
Elongation at 300 lb (%)	7.0	4.2	2.6	1.8
Core/Sheath	Nylon/Polypropylene	Nylon/Polypropylene	Polypropylene/ Polypropylene	Polypropylene/ Polypropylene
Certifications	-	NFPA 1983 (TL)	-	-
Lengths Available		75, 150, 200, 300, 600, 660'   23, 46, 61, 92, 183, 200 m		

MBS=Three-sigma minimum break strength

# Hardware

## 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	No
Eagle SL	5,620	1,574	1,574	No	No
Falcon AL	5,620	1,574	1,574	No	No
Falcon ALT	5,620	1,574	1,574	No	No
Falcon SL*	5,620	1,574	1,574	No	No
Falcon SLT	5,620	1,574	1,574	No	No
Hawk AL	6,295	1,574	1,574	No	No
Hawk SL	6,295	1,574	1,574	No	No
Osprey AL	5,171	1,574	1,349	No	No
Osprey SL	5,171	1,574	1,349	No	No
SR Steel AL**	10,116	3,597	4,047	Yes	No
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

\* Also available in black

\*\* Meets ANSI Z359.12

## Descent Control and Rigging

Name	MBS (lb)	NFPA 1983	Weight (oz)
ATS™ Device	5,170	-	3.2
Steel ATS™	10,116	-	25
SR RB™	4,945	No	6.4
FCX	3,035	Yes	6.4
F4	3,035	Yes	6.4

MBS=Three-sigma minimum break strength

## Pulleys

Name	End-to-end MBS (lb)	Max Diameter (in)	NFPA 1983	CE EN 12278
AZTEK™ Omni Block	8,093	5/16	No	Yes
Micro	6,294	1/2	No	Yes

MBS=Three-sigma minimum break strength

## Snaphooks

Name	MBS (lb)	ANSI Z359	CE
Double Action Aluminum	6,294	No	Yes
Triple Action Aluminum	6,070	No	Yes

MBS=Three-sigma minimum break strength

## Hooks

Name	MBS (lb)	NFPA 1983
Lightning Hook	3,035	Yes
Lightning GT Hook	3,035	Yes
Crosby Hook	4,945	Yes

MBS=Three-sigma minimum break strength

# Cord and Webbing

## Accessory and Prusik Cord

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564
1.5 mm	118	0.5	No
2 mm	225	1.0	No
2.75 mm	270	1.2	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,146	5.1	Yes
6 mm	1,843	8.2	Yes
7 mm	2,765	12.3	Yes
8 mm	3,574	15.9	Yes
550 Cord	550*	2.4	No

MBS=Three-sigma minimum break strength  
\*Average, not minimum

## High Tenacity Cords

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564	Fibers (core/sheath)
5.4 mm V-TX Cord™	3,372	15.0	No	Dyneema®/ Polyester
5.9 mm PowerCord™	4,384	19.5	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

MBS=Three-sigma minimum break strength

## Slings

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

MBS=Three-sigma minimum Break

## Bulk Webbing

Name/ Diameter	MBS (lb)	MBS (kN)	Lengths Available
11/16" Tubular	3,000	13.3	300' spool
1" Tech Tape Tubular	4,000	17.8	300' spool
1" Mil-Spec Tubular	4,000	17.8	30' web wheel and 300' spool
1" Type 18 Flat	6,000	26.7	300' spool
1" Type 9800 Flat	9,800	43.6	150' spool

MBS=Three-sigma minimum Break

## Sewn Webbing

End-to-end	End-to-end MBS (lb)	MBS (kN)	Lengths Available
Anchor Strap	6,744	30.0	3, 6'
Pickoff Strap	4,496	20.0	10-59"
1" 9800 Rabbit Runner	8,093	36.0	4, 6, 8'
Chain Reactor™	3,147	14.0	41, 61.5"
BARC2™	9,000	40.0	103, 60"

MBS=Three-sigma minimum Break

## GloCords

Name/ Diameter	MBS (lb)	MBS (kN)	CE EN 564
2.75 mm	270	1.2	No
3 mm	472	2.1	No
4 mm	876	3.9	No
5 mm	1,146	5.1	Yes

MBS=Three-sigma minimum break strength

## Lanyards, Fliplines and Anchors

Name	MBS (lb)	MBS (kN)	Lengths available
TriTech Flipline	5,418	24.1	10, 12, 16'
Tech11 Flipline	5,418	24.1	10, 12'
Phenom™ Dynamic Lanyard	5,170	23.0	0.4, 0.5, 0.6, 0.8, 1 m
UP Lanyard	5,418	24.1	10, 12'
Adjustable Retrievable Anchor	5,418	24.1	60"

MBS=Three-sigma minimum break strength

## Certifications

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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 3rd party tested and meet CE, NFPA, and/or ANSI Standards on life-safety equipment.

- **EN 1891** certifies personal protective equipment for the prevention of falls from a height, specifically low-stretch kernmantle ropes for climbing/access lines. Manufacturing to the CE standard ensures products meet certain quality criteria for work at height.
- **ANSI Z359** is the American National Standard Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components. The standard addresses the variety of equipment being developed in the rapidly growing field of Fall Protection.
- **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. 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. Look for certifications at UL's Certification Online Directory at [ul.com/database](http://ul.com/database).
- **QSLM** is not a standard, but rather a qualification program that incorporates best industry practices based on ISO 9001 certification to pre-qualify manufacturers to supply certain items to fulfill military contracts. Sterling is a QSLM vendor to the US Government.

## Warning

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High angle operations, fire rescue and technical rope 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 equipment.

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**Sterling is a certified ISO 9001 company.**

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Sterling Rope is a certified ISO 9001 company and all of our quality control systems are third-party audited to the standards we identify. Sterling maintains a rigorous in-house testing program to ensure that all current production meets the standards we publish. All minimum break strength (MBS) numbers listed here are 3-Sigma MBS test results 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 3 standard deviations below the average breaking strength.

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](http://SterlingRope.com).